Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/04/09

Technical Report for

ERM Salt Lake City

Vertellus-Provo

Accutest Job Number: T39314

Sampling Date: 10/05/09

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: **782**

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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Accutest Laboratories

Sample Summary

ERM Salt Lake City

Vertellus-Provo

Job No: T39314

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T39314-1	10/05/09	08:50	KB	10/06/09	AQ	Ground Water	MW1:1009
T39314-2	10/05/09	10:00	KB	10/06/09	AQ	Ground Water	MW29:1009
T39314-2D	10/05/09	10:00	KB	10/06/09	AQ	Water Dup/MSD	MW29:1009 MSD
T39314-2S	10/05/09	10:00	KB	10/06/09	AQ	Water Matrix Spike	MW29:1009 MS
T39314-3	10/05/09	11:10	KB	10/06/09	AQ	Ground Water	MW30:1009
T39314-4	10/05/09	11:50	KB	10/06/09	AQ	Ground Water	MW2:1009
T39314-5	10/05/09	13:00	KB	10/06/09	AQ	Ground Water	TW2:1009
T39314-6	10/05/09	14:50	KB	10/06/09	AQ	Ground Water	MW35:1009
T39314-7	10/05/09	00:00	KB	10/06/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	ERM Salt Lake City	**Job No**	T39314
Site:	Vertellus-Provo	**Report Date**	11/4/2009 1:12:26 PM

6 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/05/2009 and were received at Accutest on 10/06/2009 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of T39314. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF3596

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

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** 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.
- Sample(s) T39314-5 have surrogates outside control limits. Probable cause due to matrix interference.
- OP13205-MS for Benzenethiol: Compounds was not spiked in this ms sample.
- T39314-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270C BY SIM

2

Matrix AQ	Batch ID: OP13269

- 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) T39314-1, T39314-6 have surrogates outside control limits. Probable cause due to matrix interference.
- OP13269-BS: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
- OP13269-BSD: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
- T39314-1: Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
- T39314-6: Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
- T39314-1 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-1 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-1 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-6 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-6 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-6 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-4 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-5 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-5 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-5 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-3 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-3 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-3 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-6 for Terphenyl-d14: Recovery was adjusted for 10x spiking.Outside control limits due to dilution.
- T39314-6 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-6 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-4 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-1 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- OP13269-MB for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- OP13269-MB for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- OP13269-MB for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-2 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-2 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-4 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-1 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-3 for Terphenyl-d14: Recovery was adjusted for 10x spiking.
- T39314-1 for Terphenyl-d14: Recovery was adjusted for 10x spiking.Biased high,due to matrix interference.
- T39314-3 for 2-Fluorobiphenyl: Recovery was adjusted for 10x spiking.
- T39314-3 for Nitrobenzene-d5: Recovery was adjusted for 10x spiking.
- T39314-2 for Terphenyl-d14: Recovery was adjusted for 10x spiking.

Wet Chemistry By Method EPA 335.4

Matrix AQ	**Batch ID:** GP7017

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

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:	MW1:1009		
Lab Sample ID:	T39314-1	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020665.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	93%		87-119%
460-00-4	4-Bromofluorobenzene	91%		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:	MW1:1009		
Lab Sample ID:	T39314-1	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13715.D	1	10/09/09	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	47%		10-66%
4165-62-2	Phenol-d5	32%		10-53%
118-79-6	2,4,6-Tribromophenol	74%		32-128%
4165-60-0	Nitrobenzene-d5	70%		29-115%
321-60-8	2-Fluorobiphenyl	63%		34-113%
1718-51-0	Terphenyl-d14	114%		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	11	ug/l	JN
6069-98-3	Cyclohexane, 1-methyl-4-(1-methyle	4.05	5.6	ug/l	JN
1000113-52-1	2,3,3-Trimethyl-1-hexene	4.13	5.8	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	8.1	ug/l	JN
107-40-4	2-Pentene, 2,4,4-trimethyl-	4.26	8.2	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.17	6.4	ug/l	JN
3650-30-4	1-Naphthalenepropanol, .alpha.-eth	13.52	5.1	ug/l	JN
	Total TIC, Semi-Volatile		50.2	ug/l	J

(a) Resorcinol was not detected in the sample.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW1:1009		
Lab Sample ID:	T39314-1	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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 [a]	H35504.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
Run #2	H35524.D	1	10/21/09	SC	10/07/09	OP13269	EH1918

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

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.86	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.091	0.20	0.054	ug/l	J
56-55-3	Benzo(a)anthracene	0.084	0.20	0.041	ug/l	J
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	0.10	0.20	0.044	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.33	0.20	0.046	ug/l	
86-73-7	Fluorene	0.27	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	0.54	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71% [b]	71% [b]	17-131%
321-60-8	2-Fluorobiphenyl	79% [b]	90% [b]	15-137%
1718-51-0	Terphenyl-d14	125% [b]	180% [c]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Recovery was adjusted for 10x spiking.
(c) Recovery was adjusted for 10x spiking.Biased high,due to matrix interference.

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:	MW1:1009		
Lab Sample ID:	T39314-1	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 B	0.010	0.0040	mg/l	1	10/17/09 12:33	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:	MW29:1009		
Lab Sample ID:	T39314-2	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020661.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	91%		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:	MW29:1009		
Lab Sample ID:	T39314-2	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13712.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	35%		10-66%
4165-62-2	Phenol-d5	23%		10-53%
118-79-6	2,4,6-Tribromophenol	53%		32-128%
4165-60-0	Nitrobenzene-d5	49%		29-115%
321-60-8	2-Fluorobiphenyl	42%		34-113%
1718-51-0	Terphenyl-d14	90%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
19780-60-0	3-Ethyl-2-methyl-1-heptene	4.02	7.7	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	4.6	ug/l	JN
1447-26-3	4-Hepten-3-one, 5-methyl-	4.26	6.7	ug/l	JN
109-21-7	Butanoic acid, butyl ester	7.17	6.5	ug/l	JN
31061-88-8	Phosphonic acid, bicyclo[2.2.1]hep	13.51	4.1	ug/l	JN
	Total TIC, Semi-Volatile		29.6	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:	MW29:1009		
Lab Sample ID:	T39314-2	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	H35505.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	0.079	0.20	0.042	ug/l	J
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.72	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.097	0.20	0.041	ug/l	J
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.21	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	0.15	0.20	0.044	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.49	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	0.13	0.20	0.075	ug/l	J
129-00-0	Pyrene	0.60	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68% [a]		17-131%
321-60-8	2-Fluorobiphenyl	86% [a]		15-137%
1718-51-0	Terphenyl-d14	119% [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:	MW29:1009		
Lab Sample ID:	T39314-2	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0050 B	0.010	0.0040	mg/l	1	10/17/09 12:30	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:	MW30:1009		
Lab Sample ID:	T39314-3	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020666.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	95%		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
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:	MW30:1009		
Lab Sample ID:	T39314-3	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13734.D	1	10/09/09	SC	10/07/09	OP13205	EJ631
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	35%		10-66%
4165-62-2	Phenol-d5	28%		10-53%
118-79-6	2,4,6-Tribromophenol	83%		32-128%
4165-60-0	Nitrobenzene-d5	48%		29-115%
321-60-8	2-Fluorobiphenyl	44%		34-113%
1718-51-0	Terphenyl-d14	110%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
104-55-2	2-Propenal, 3-phenyl-	5.29	6.8	ug/l	JN
4265-25-2	Benzofuran, 2-methyl-	5.37	5	ug/l	JN
95-78-3	Benzenamine, 2,5-dimethyl-	5.76	17	ug/l	JN
87-62-7	Benzenamine, 2,6-dimethyl-	5.81	9.5	ug/l	JN
4565-32-6	Benzo[b]thiophene, 2,3-dihydro-	6.49	21	ug/l	JN
937-30-4	Ethanone, 1-(4-ethylphenyl)-	7.18	9	ug/l	JN
16608-68-7	2-Butene, 3-chloro-1-phenyl-, (Z)-	9.40	5.1	ug/l	JN
57-10-3	n-Hexadecanoic acid	12.57	4.9	ug/l	JN
	Total TIC, Semi-Volatile		78.3	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:	MW30:1009		
Lab Sample ID:	T39314-3	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	H35525.D	1	10/21/09	SC	10/07/09	OP13269	EH1918
Run #2	H35528.D	4	10/21/09	SC	10/07/09	OP13269	EH1918

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

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	21.7 [a]	0.80	0.17	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.21	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.14	0.20	0.041	ug/l	J
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	0.10	0.20	0.044	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.50	0.20	0.046	ug/l	
86-73-7	Fluorene	0.39	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	0.54	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.19	0.20	0.075	ug/l	J
129-00-0	Pyrene	0.57	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	32% [b]	41% [b]	17-131%
321-60-8	2-Fluorobiphenyl	56% [b]	52% [b]	15-137%
1718-51-0	Terphenyl-d14	109% [b]	114% [b]	10-160%

(a) Result is from Run# 2
(b) 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:	MW30:1009		
Lab Sample ID:	T39314-3	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.015	0.010	0.0040	mg/l	1	10/17/09 12:35	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:	MW2:1009		
Lab Sample ID:	T39314-4	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020667.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

U = Not detected MDL - Method Detection Limit
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:	MW2:1009		
Lab Sample ID:	T39314-4	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13717.D	1	10/09/09	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	
83-32-9	Acenaphthene	9.2	5.0	1.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		10-66%
4165-62-2	Phenol-d5	44%		10-53%
118-79-6	2,4,6-Tribromophenol	93%		32-128%
4165-60-0	Nitrobenzene-d5	88%		29-115%
321-60-8	2-Fluorobiphenyl	82%		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	9.5	ug/l	JN
565-75-3	Pentane, 2,3,4-trimethyl-	4.24	5.1	ug/l	JN
20662-83-3	Oxazole, 4,5-dimethyl-	4.26	5.6	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	7.17	8.6	ug/l	JN
	Total TIC, Semi-Volatile		28.8	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:	MW2:1009		
Lab Sample ID:	T39314-4	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	H35526.D	1	10/21/09	SC	10/07/09	OP13269	EH1918
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	9.9	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.39	0.20	0.072	ug/l	
120-12-7	Anthracene	0.22	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	1.2	0.20	0.046	ug/l	
86-73-7	Fluorene	0.71	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	0.43	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.82	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73% [a]		17-131%
321-60-8	2-Fluorobiphenyl	94% [a]		15-137%
1718-51-0	Terphenyl-d14	104% [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:	MW2:1009		
Lab Sample ID:	T39314-4	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.13	0.010	0.0040	mg/l	1	10/17/09 12:36	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:	TW2:1009		
Lab Sample ID:	T39314-5	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020668.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20.1	50	4.7	ug/l	J
71-43-2	Benzene	20.6	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	24.8	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	25.8	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	50.4	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	95%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW2:1009		
Lab Sample ID:	T39314-5	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13746.D	1	10/09/09	SC	10/07/09	OP13205	EJ631
Run #2	J13722.D	40	10/09/09	SC	10/07/09	OP13205	EJ630

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

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	1410 [a]	200	51	ug/l	
95-48-7	2-Methylphenol	571 [a]	200	33	ug/l	
	3&4-Methylphenol	708 [a]	200	63	ug/l	
108-95-2	Phenol	281 [a]	200	30	ug/l	
83-32-9	Acenaphthene	71.4	5.0	1.6	ug/l	
86-73-7	Fluorene	12.0	5.0	1.3	ug/l	
91-20-3	Naphthalene	2030 [a]	200	45	ug/l	
85-01-8	Phenanthrene	15.9	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%	42%	10-66%
4165-62-2	Phenol-d5	41%	31%	10-53%
118-79-6	2,4,6-Tribromophenol	72%	55%	32-128%
4165-60-0	Nitrobenzene-d5	106%	65%	29-115%
321-60-8	2-Fluorobiphenyl	60%	120% [b]	34-113%
1718-51-0	Terphenyl-d14	81%	85%	12-145%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
109-06-8	Pyridine, 2-methyl-	3.14	72	ug/l	JN
108-89-4	Pyridine, 4-methyl-	3.56	52	ug/l	JN
108-38-3	Benzene, 1,3-dimethyl-	3.64	15	ug/l	JN
108-47-4	Pyridine, 2,4-dimethyl-	4.12	36	ug/l	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	4.78	15	ug/l	JN
496-11-7	Indane	4.88	180	ug/l	JN
95-13-6	Indene	4.95	40	ug/l	JN
95-65-8	Phenol, 3,4-dimethyl-	5.84	15	ug/l	JN
92-52-4	Biphenyl	7.49	17	ug/l	JN
1127-76-0	Naphthalene, 1-ethyl-	7.63	26	ug/l	JN
5779-72-6	Benzaldehyde, 2,4,5-trimethyl-	7.68	20	ug/l	JN

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

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

Report of Analysis

Client Sample ID:	TW2:1009		
Lab Sample ID:	T39314-5	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
621-82-9	2-Propenoic acid, 3-phenyl-	7.80	31	ug/l	JN
1008-89-5	Pyridine, 2-phenyl-	8.20	18	ug/l	JN
613-46-7	2-Naphthalenecarbonitrile	8.55	37	ug/l	JN
90-15-3	1-Naphthalenol	8.69	85	ug/l	JN
4741-68-8	1(3H)-Isobenzofuranthione	8.91	18	ug/l	JN
4184-79-6	5,6-Dimethyl-1H-benzotriazole	9.49	40	ug/l	JN
7469-77-4	1-Naphthalenol, 2-methyl-	9.66	24	ug/l	JN
10240-08-1	1-Naphthalenol, 4-methyl-	9.92	34	ug/l	JN
635-46-1	Quinoline, 1,2,3,4-tetrahydro-	10.27	38	ug/l	JN
86-55-5	1-Naphthalenecarboxylic acid	10.43	100	ug/l	JN
93-09-4	2-Naphthalenecarboxylic acid	10.53	41	ug/l	JN
1008-29-3	Oxazole, 4-methyl-5-phenyl-	12.02	46	ug/l	JN
86-77-1	2-Dibenzofuranol	12.15	44	ug/l	JN
	Total TIC, Semi-Volatile		1044	ug/l	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) 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:	TW2:1009		
Lab Sample ID:	T39314-5	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	H35604.D	1	10/23/09	SC	10/07/09	OP13269	EH1920
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
208-96-8	Acenaphthylene	1.9	0.20	0.072	ug/l	
120-12-7	Anthracene	1.5	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	0.50	0.20	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
129-00-0	Pyrene	0.19	0.20	0.079	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	24% [a]		17-131%
321-60-8	2-Fluorobiphenyl	92% [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:	TW2:1009		
Lab Sample ID:	T39314-5	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.017	0.010	0.0040	mg/l	1	10/17/09 12:40	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:	MW35:1009		
Lab Sample ID:	T39314-6	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020669.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-122%
17060-07-0	1,2-Dichloroethane-D4	87%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	91%		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:	MW35:1009		
Lab Sample ID:	T39314-6	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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	J13718.D	1	10/09/09	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	66%		10-66%
4165-62-2	Phenol-d5	47%		10-53%
118-79-6	2,4,6-Tribromophenol	93%		32-128%
4165-60-0	Nitrobenzene-d5	93%		29-115%
321-60-8	2-Fluorobiphenyl	83%		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	4.02	8.6	ug/l	JN
565-75-3	Pentane, 2,3,4-trimethyl-	4.24	4.1	ug/l	JN
590-66-9	Cyclohexane, 1,1-dimethyl-	4.26	6.6	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.18	6.9	ug/l	JN
	Total TIC, Semi-Volatile		26.2	ug/l	J

(a) Resorcinol was not detected in the sample.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW35:1009		
Lab Sample ID:	T39314-6	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
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 [a]	H35508.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
Run #2	H35527.D	10	10/21/09	SC	10/07/09	OP13269	EH1918

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

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	55.2 [b]	2.0	0.42	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.076	0.20	0.054	ug/l	J
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	0.23	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	89% [c]	105% [c]	17-131%
321-60-8	2-Fluorobiphenyl	111% [c]	130% [c]	15-137%
1718-51-0	Terphenyl-d14	141% [c]	176% [d]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Result is from Run# 2
(c) Recovery was adjusted for 10x spiking.
(d) Recovery was adjusted for 10x spiking.Outside control limits due to dilution.

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:	MW35:1009		
Lab Sample ID:	T39314-6	**Date Sampled:**	10/05/09
Matrix:	AQ - Ground Water	**Date Received:**	10/06/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.085	0.010	0.0040	mg/l	1	10/17/09 12:41	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:	T39314-7	**Date Sampled:**	10/05/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/06/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020659.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	93%		87-119%
460-00-4	4-Bromofluorobenzene	92%		80-133%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

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

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FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T39314

Client / Reporting Information

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

Project Information

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

Billing Information (If different from Report to)

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

Requested Analyses

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

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	Na2SO4	ENCORE	OTHER	Volatile/8260	SVOC and SIMPAH/8270	Sodium /6010	Cyanide	Sulfate						LAB USE ONLY
1	MW1:1009	10/5/09	8:50	FB	GW	6	3	1				2							X	X	~~X~~	X							
2	MW29:1009	"	10:00	"	"	12	6	1				2							X	X		X							MS/MSD
3	MW30:1009	"	11:10	"	"	6	3	1				2							X	X		X							
4	MW2:1009	"	11:50	"	"	6	3	1				2							X	X		X							
5	TW2:1009	"	13:00	"	"	6	3	1				2							X	X		X							
6	MW35:1009	"	14:50	"	"	6	3	1				2							X	X		X							
7	Trip Blank																		X										

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/5/09 16:00	1	2 Fed Ex	10/6/09 0945	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: 2.6 / 3.6

4.1 4

T39314: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T39314 Client: ERM Date/Time Received: 10/6/09 0945

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

Cooler Temps: #1: 3.6 #2: 2.6 #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

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

Airbill Numbers: ____

COOLER INFORMATION

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

CHAIN OF CUSTODY

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

SAMPLE INFORMATION

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

TRIP BLANK INFORMATION

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

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

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature]

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 10/6/9

CORRECTIVE ACTIONS

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

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

Client Instructions:

i:\mwalker\form\samplemanagement

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4

SAMPLE RECEIPT LOG

JOB #: T39314 DATE/TIME RECEIVED: 10/6/09 0945

CLIENT: ERM INITIALS: FF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW1 : 1009	10/5/09 0850	W	LAG	1-2	IC	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	2	MW29 : 1009 MS/MSD	1000		LAG	1-4	IC	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	3	MW30 : 1009	1110		LAG	1-2	IC	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	MW2 : 1009	1150		LAG	1-2	IC	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	5	TW2 : 1009	1300		LAG	1-2	IC	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	MW 35 : 1009	1450		LAG	1-2	IC	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	—		"	1-2	"	1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
				FF	10/6/09			1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

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

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

Rev 8/13/01 ewp

4.1

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T39314: 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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6, T39314-7

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 [a]	2.0	5.0	0.41	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

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

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

Blank Spike Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6, T39314-7

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

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

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6, T39314-7

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

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

Instrument Performance Check (BFB)

Job Number: T39314
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 T39314)
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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

Instrument Performance Check (BFB)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3596-CC3547	F020655.D	10/09/09	11:52	01:13	Continuing cal 40
VF3596-BS	F020656.D	10/09/09	12:26	01:47	Blank Spike
VF3596-MB	F020658.D	10/09/09	13:30	02:51	Method Blank
T39314-7	F020659.D	10/09/09	14:00	03:21	TRIP BLANK
ZZZZZZ	F020660.D	10/09/09	14:30	03:51	(unrelated sample)
T39314-2	F020661.D	10/09/09	15:01	04:22	MW29:1009
T39314-2MS	F020662.D	10/09/09	15:31	04:52	Matrix Spike
T39314-2MSD	F020663.D	10/09/09	16:01	05:22	Matrix Spike Duplicate
T39314-1	F020665.D	10/09/09	17:02	06:23	MW1:1009
T39314-3	F020666.D	10/09/09	17:32	06:53	MW30:1009
T39314-4	F020667.D	10/09/09	18:02	07:23	MW2:1009
T39314-5	F020668.D	10/09/09	18:32	07:53	TW2:1009
T39314-6	F020669.D	10/09/09	19:02	08:23	MW35:1009
ZZZZZZ	F020670.D	10/09/09	19:33	08:54	(unrelated sample)
ZZZZZZ	F020671.D	10/09/09	20:03	09:24	(unrelated sample)
ZZZZZZ	F020672.D	10/09/09	20:33	09:54	(unrelated sample)
ZZZZZZ	F020673.D	10/09/09	21:03	10:24	(unrelated sample)
ZZZZZZ	F020674.D	10/09/09	21:33	10:54	(unrelated sample)
ZZZZZZ	F020675.D	10/09/09	22:03	11:24	(unrelated sample)
ZZZZZZ	F020676.D	10/09/09	22:33	11:54	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

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

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

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

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

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

Volatile Surrogate Recovery Summary

Job Number: T39314
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
T39314-1	F020665.D	100.0	97.0	93.0	91.0
T39314-2	F020661.D	100.0	97.0	90.0	91.0
T39314-3	F020666.D	100.0	95.0	90.0	89.0
T39314-4	F020667.D	100.0	97.0	88.0	90.0
T39314-5	F020668.D	97.0	95.0	89.0	90.0
T39314-6	F020669.D	94.0	87.0	90.0	91.0
T39314-7	F020659.D	97.0	96.0	93.0	92.0
T39314-2MS	F020662.D	102.0	103.0	91.0	91.0
T39314-2MSD	F020663.D	98.0	99.0	91.0	92.0
VF3596-BS	F020656.D	92.0	87.0	92.0	89.0
VF3596-MB	F020658.D	98.0	93.0	93.0	91.0

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

Initial Calibration Summary

Job Number: T39314
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: T39314 **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: T39314 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

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

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

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

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

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

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

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

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

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

Initial Calibration Summary

Job Number: T39314
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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3548-ICC3547
Lab FileID: F019686.D


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                         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: T39314 **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: T39314 **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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICC3547
Lab FileID: F019686.D

```
                Response Ratio = 0.01703 + 0.30448 *A


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

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

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

Initial Calibration Verification

Job Number: T39314
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: T39314
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: T39314
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: T39314
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: T39314
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: T39314
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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3596-CC3547
Lab FileID: F020655.D

Evaluate Continuing Calibration Report

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

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

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

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

Continuing Calibration Summary

Job Number: T39314 **Sample:** VF3596-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020655.D
Project: Vertellus-Provo

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

Continuing Calibration Summary

Job Number: T39314 **Sample:** VF3596-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020655.D
Project: Vertellus-Provo

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

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3596-CC3547
Lab FileID: F020655.D

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

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020665.D Vial: 13
Acq On : 9 Oct 2009 5:02 pm Operator: AnjanaP
Sample : t39314-1 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:03 2009 Quant Results File: VF3547AP9G.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	967165	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	745551	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	416993	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	416993	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	287119	50.07	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.14%			
45) 1,2-Dichloroethane-d4	10.31	65	354878	48.68	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 97.36%			
62) Toluene-d8	12.59	98	813863	46.35	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.70%			
83) 4-Bromofluorobenzene	16.16	95	358962	45.56	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.12%			

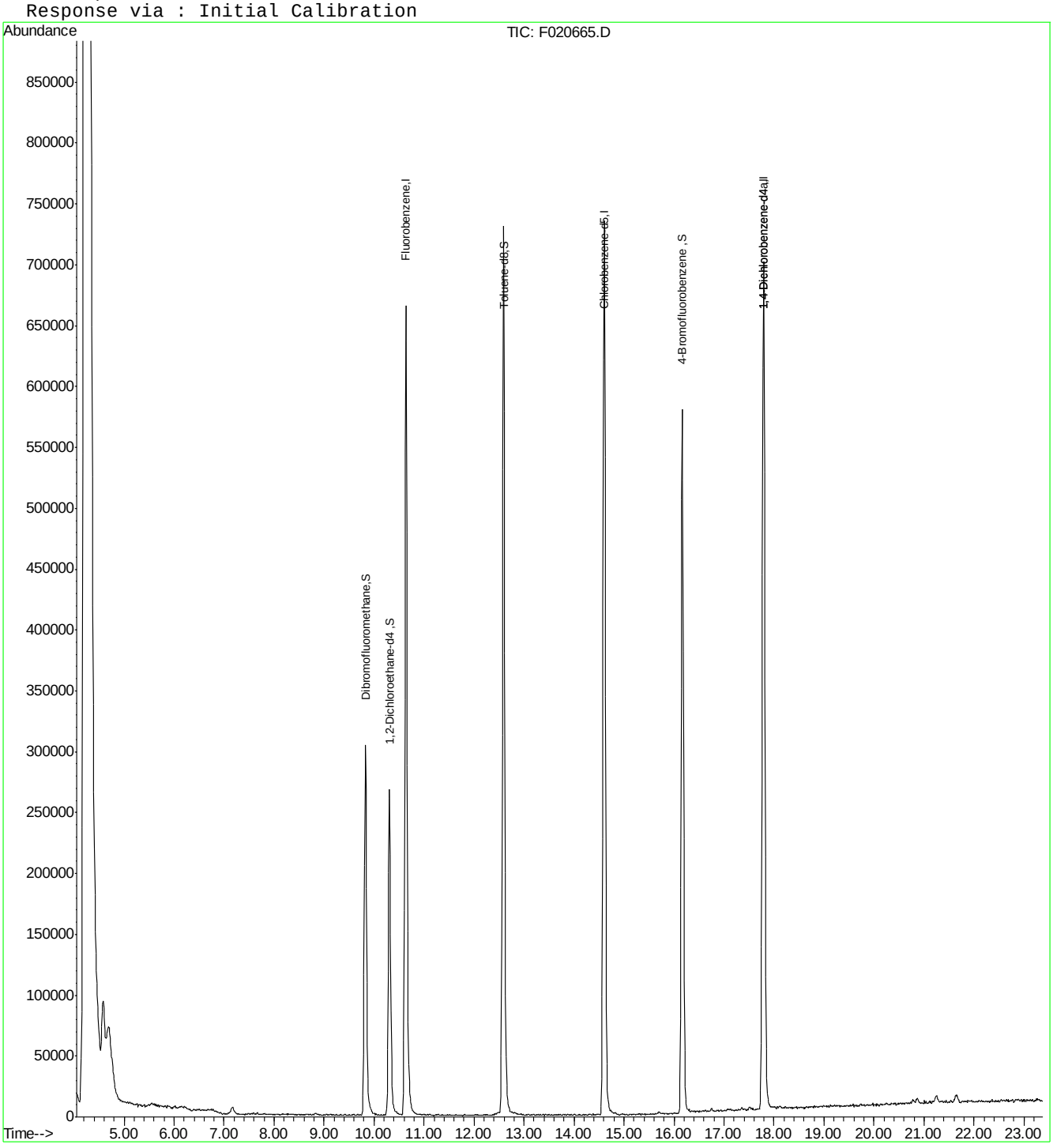
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020665.D VF3547AP9G.M Mon Oct 12 11:46:01 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020665.D Vial: 13
Acq On : 9 Oct 2009 5:02 pm Operator: AnjanaP
Sample : t39314-1 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:04 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\VF3596\F020661.D Vial: 9
Acq On : 9 Oct 2009 3:01 pm Operator: AnjanaP
Sample : t39314-2 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:55:59 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	981653	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	759252	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.79	152	416179	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.79	152	416179	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	291887	50.15	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.30%			
45) 1,2-Dichloroethane-d4	10.31	65	357752	48.33	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 96.66%			
62) Toluene-d8	12.59	98	804799	45.05	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.10%			
83) 4-Bromofluorobenzene	16.16	95	356653	45.36	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.72%			

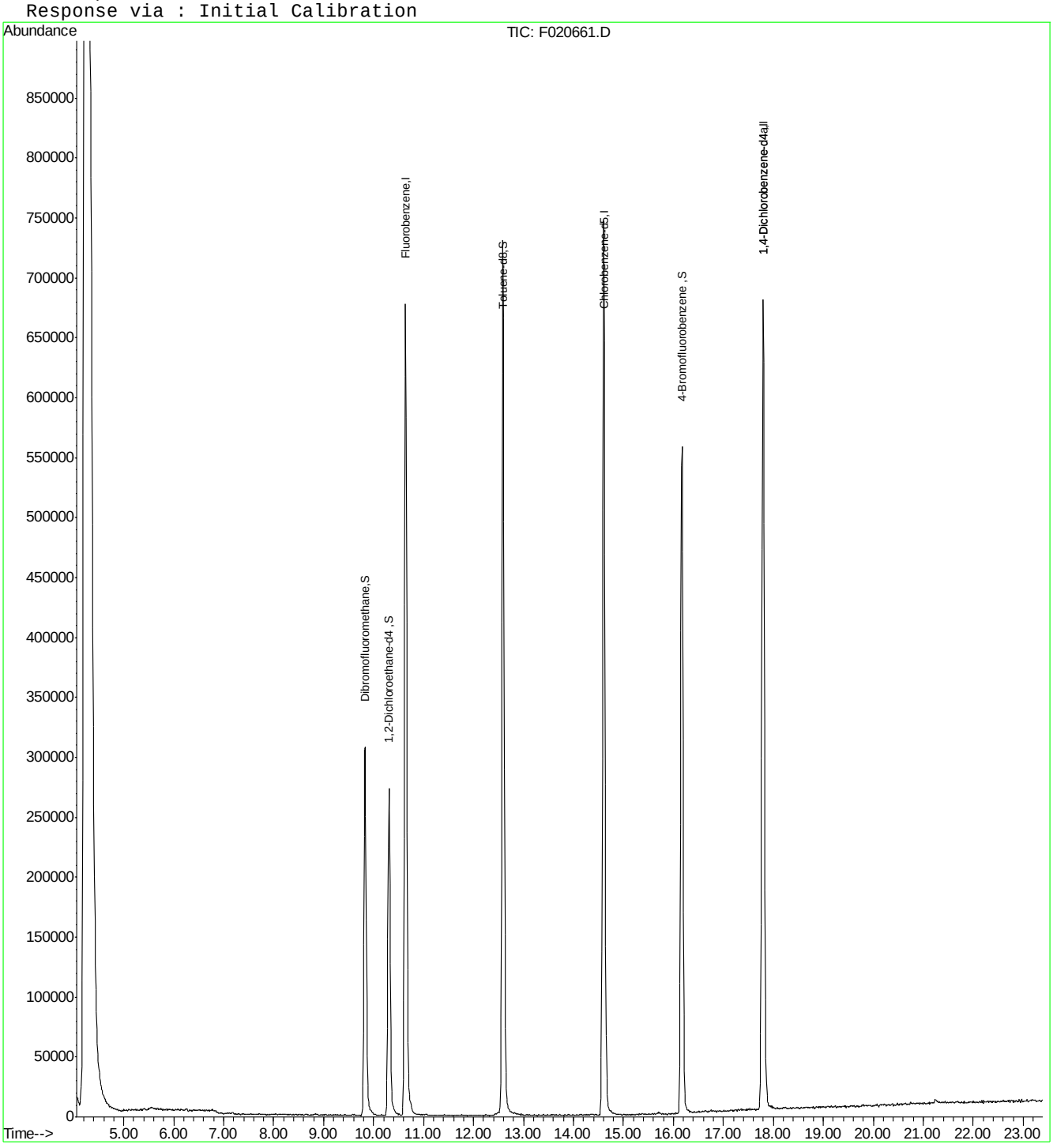
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020661.D VF3547AP9G.M Mon Oct 12 11:45:59 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020661.D Vial: 9
Acq On : 9 Oct 2009 3:01 pm Operator: AnjanaP
Sample : t39314-2 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:02 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\VF3596\F020666.D Vial: 14
Acq On : 9 Oct 2009 5:32 pm Operator: AnjanaP
Sample : t39314-3 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:04 2009 Quant Results File: VF3547AP9G.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	951125	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	731741	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	407771	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	407771	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	280698	49.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.56%			
45) 1,2-Dichloroethane-d4	10.30	65	340574	47.45	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 94.90%			
62) Toluene-d8	12.58	98	773958	44.95	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.90%			
83) 4-Bromofluorobenzene	16.16	95	343423	44.59	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.18%			

Target Compounds

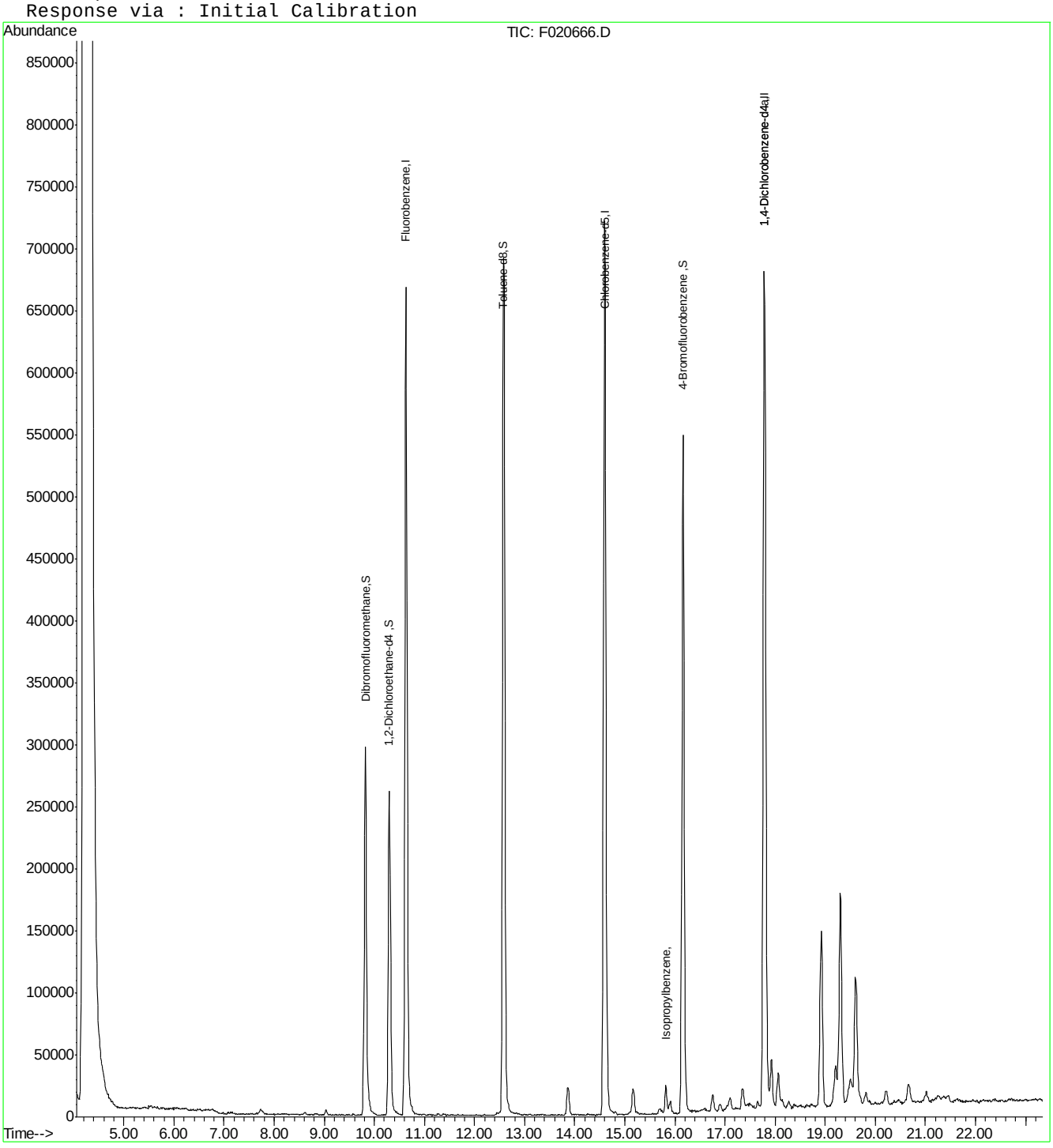
						Qvalue
81) Isopropylbenzene	15.82	105	26005	1.41	ug/L	95

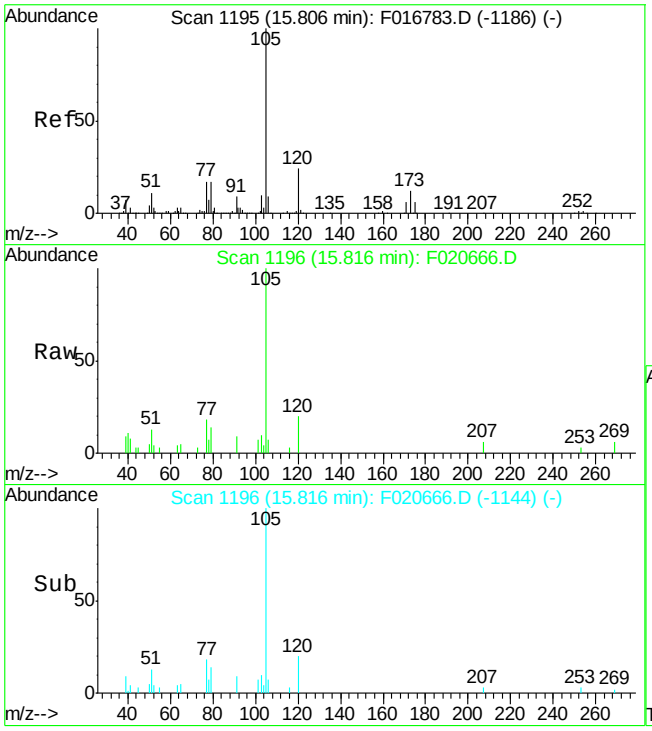
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020666.D VF3547AP9G.M Mon Oct 12 11:46:03 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020666.D Vial: 14
Acq On : 9 Oct 2009 5:32 pm Operator: AnjanaP
Sample : t39314-3 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:05 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

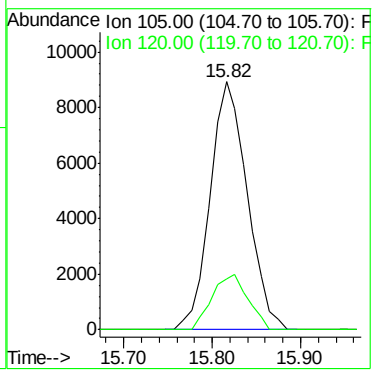




#81
Isopropylbenzene
Concen: 1.41 ug/L
RT: 15.82 min Scan# 1196
Delta R.T. 0.02 min
Lab File: F020666.D
Acq: 9 Oct 2009 5:32 pm

Tgt Ion:105 Resp: 26005

Ion	Ratio	Lower	Upper
105	100		
120	20.5	0.0	52.8



6.1.3

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020667.D Vial: 15
Acq On : 9 Oct 2009 6:02 pm Operator: AnjanaP
Sample : t39314-4 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:05 2009 Quant Results File: VF3547AP9G.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	914678	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	727711	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	397202	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	397202	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	270889	49.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.90%			
45) 1,2-Dichloroethane-d4	10.30	65	335228	48.62	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 97.24%			
62) Toluene-d8	12.58	98	757041	44.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.48%			
83) 4-Bromofluorobenzene	16.16	95	337605	44.99	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.98%			

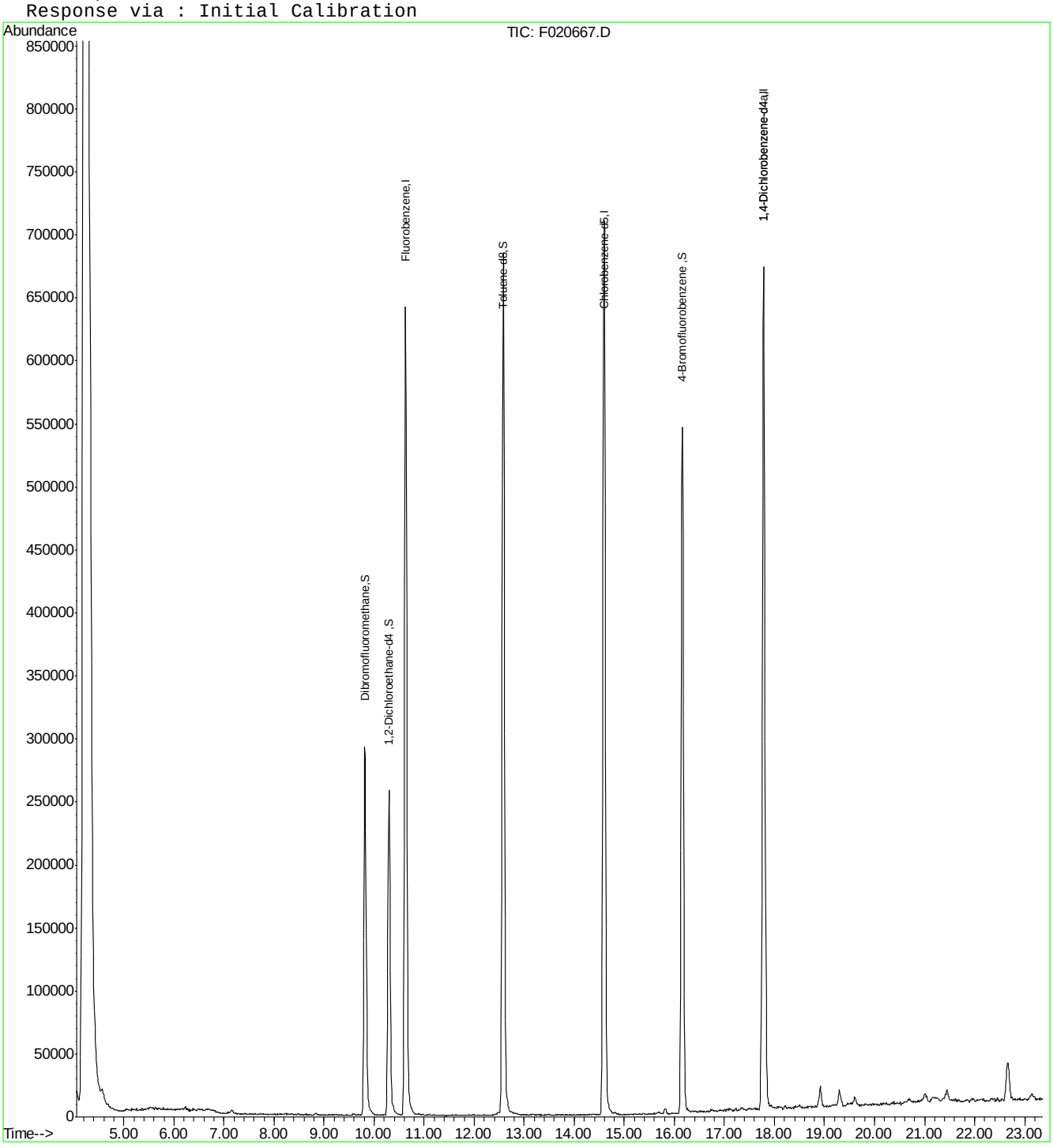
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020667.D Vial: 15
Acq On : 9 Oct 2009 6:02 pm Operator: AnjanaP
Sample : t39314-4 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07 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



F020667.D VF3547AP9G.M Mon Oct 12 11:46:06 2009 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020668.D Vial: 16
Acq On : 9 Oct 2009 6:32 pm Operator: AnjanaP
Sample : t39314-5 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:06 2009 Quant Results File: VF3547AP9G.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	944898	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	725032	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	400174	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	400174	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	270695	48.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.64%			
45) 1,2-Dichloroethane-d4	10.29	65	339747	47.66	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 95.32%			
62) Toluene-d8	12.57	98	761870	44.67	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.34%			
83) 4-Bromofluorobenzene	16.16	95	338692	44.81	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.62%			

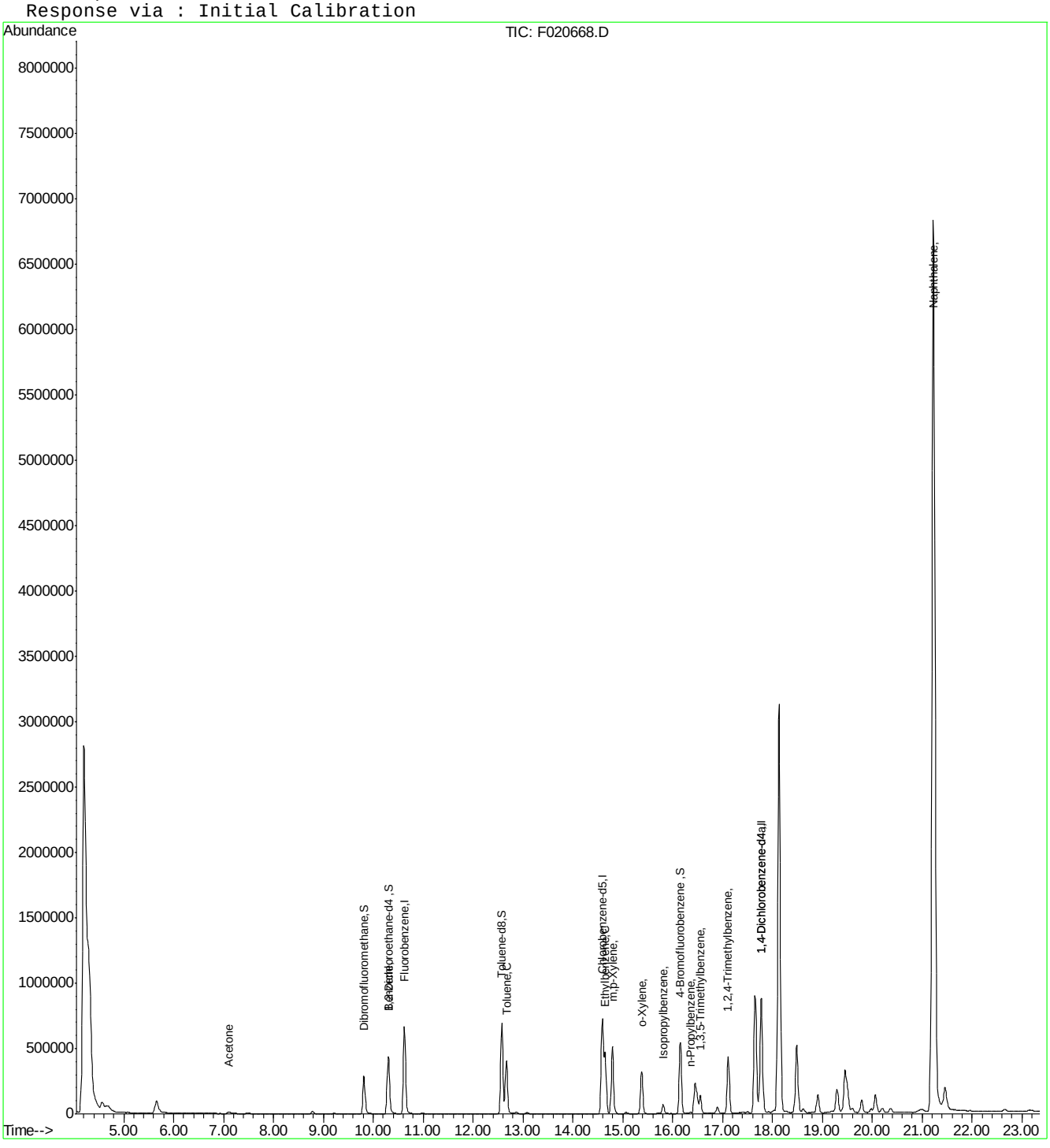
Target Compounds						Qvalue
12) Acetone	7.10	43	36284	20.08	ug/L	97
46) Benzene	10.31	78	319543	20.61	ug/L	89
63) Toluene	12.67	91	501146	25.77	ug/L	99
75) Ethylbenzene	14.65	91	600593	24.80	ug/L	99
76) m,p-Xylene	14.80	91	591642	31.75	ug/L	100
77) o-Xylene	15.38	91	361606	18.66	ug/L	95
81) Isopropylbenzene	15.81	105	78224	4.32	ug/L	99
88) n-Propylbenzene	16.35	91	17579	0.71	ug/L	99
91) 1,3,5-Trimethylbenzene	16.55	105	128792	7.84	ug/L	100
100) 1,2,4-Trimethylbenzene	17.11	105	480054	27.33	ug/L	98
105) Naphthalene	21.22	128	13843499	2097.53	ug/L	99

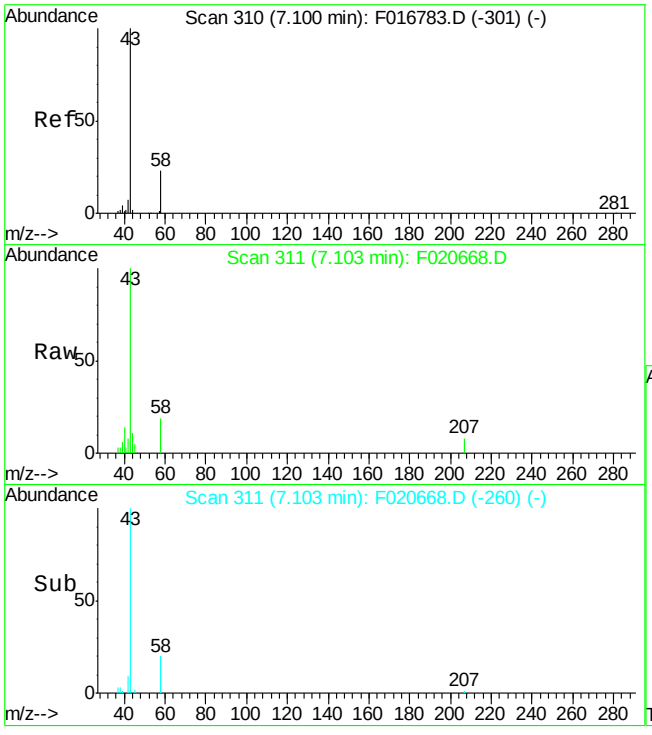
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020668.D Vial: 16
Acq On : 9 Oct 2009 6:32 pm Operator: AnjanaP
Sample : t39314-5 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:08 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

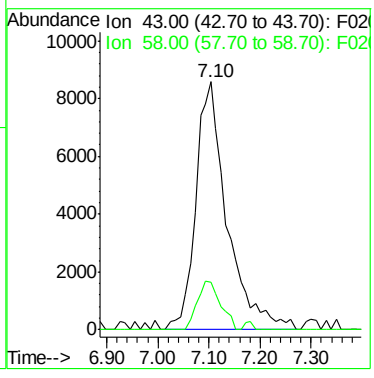


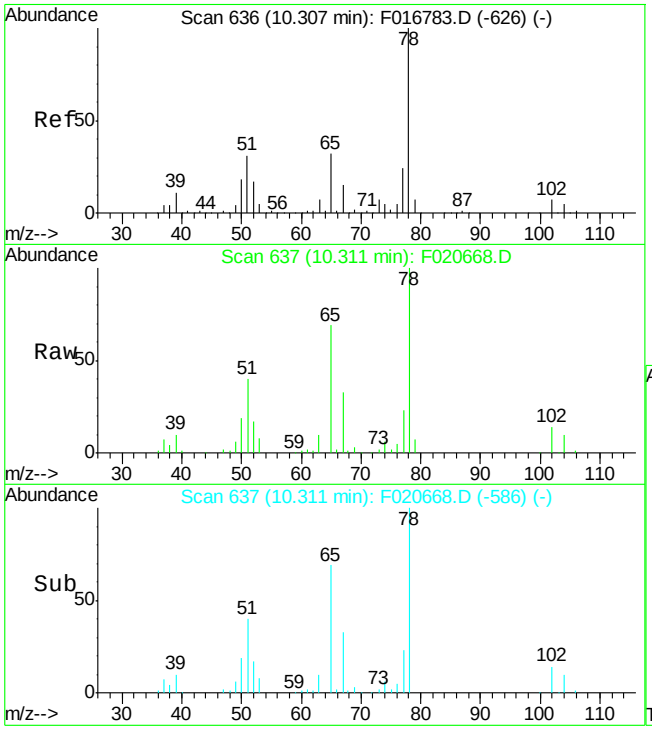


#12
Acetone
Concen: 20.08 ug/L
RT: 7.10 min Scan# 311
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 43 Resp: 36284

Ion	Ratio	Lower	Upper
43	100		
58	19.2	0.0	47.7

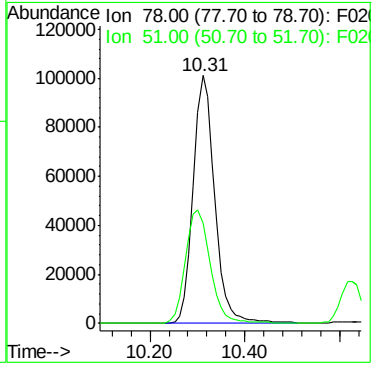


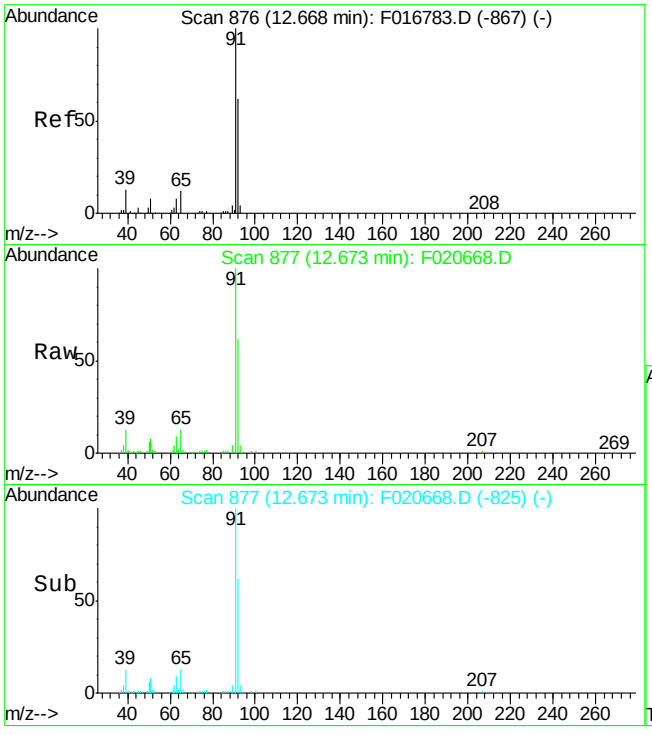


#46
Benzene
Concen: 20.61 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 78 Resp: 319543

Ion	Ratio	Lower	Upper
78	100		
51	40.4	4.0	64.0

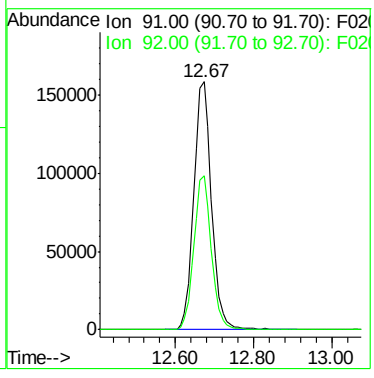


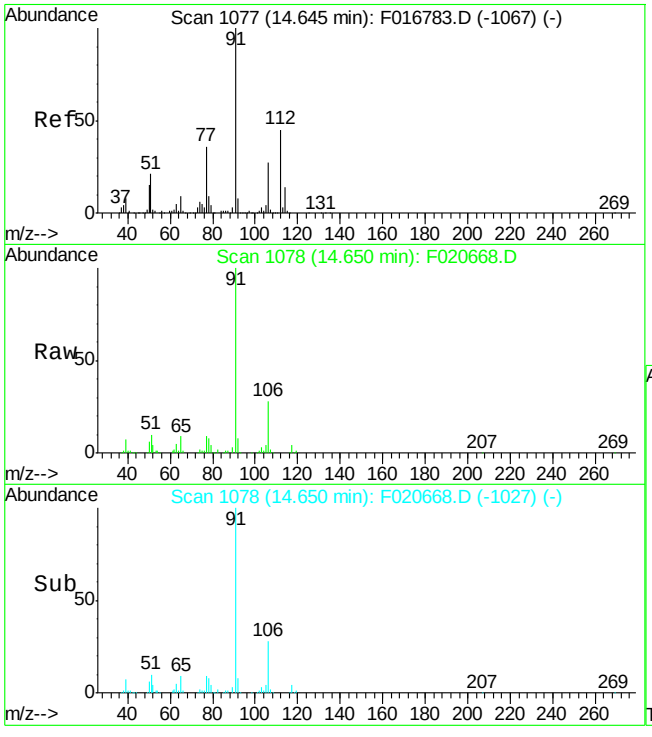


#63
Toluene
Concen: 25.77 ug/L
RT: 12.67 min Scan# 877
Delta R.T. 0.01 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 91 Resp: 501146

Ion	Ratio	Lower	Upper
91	100		
92	62.1	31.7	91.7

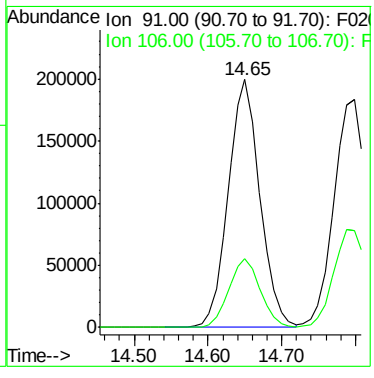


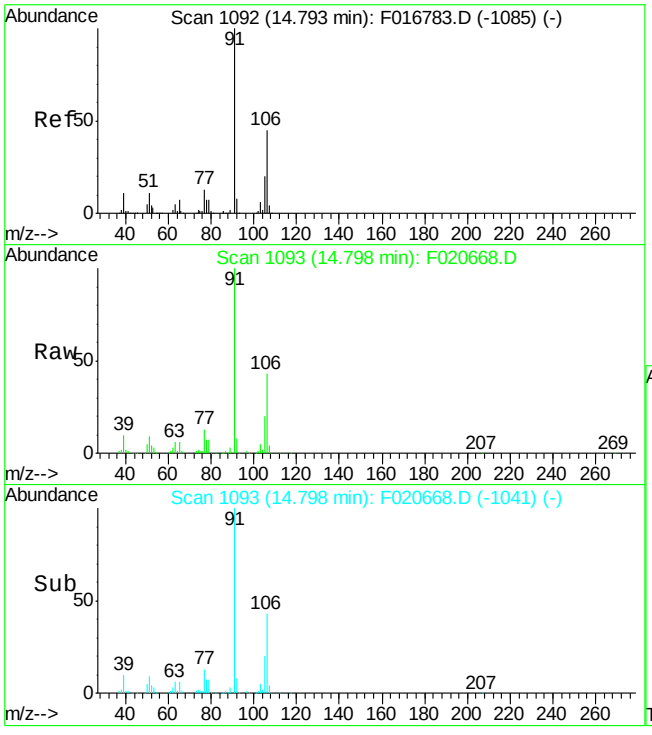


#75
Ethylbenzene
Concen: 24.80 ug/L
RT: 14.65 min Scan# 1078
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 91 Resp: 600593

Ion	Ratio	Lower	Upper
91	100		
106	27.7	0.0	57.1

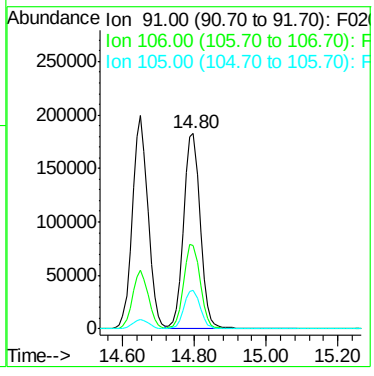


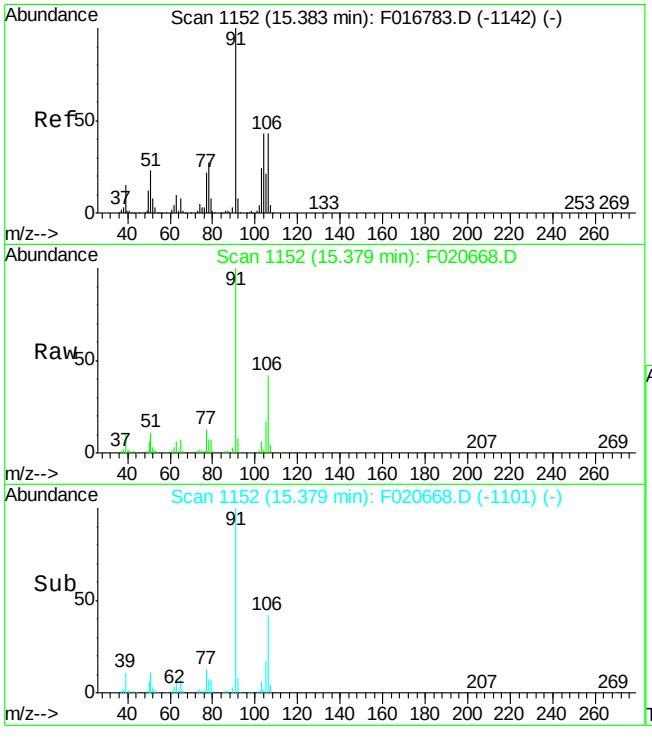


#76
m,p-Xylene
Concen: 31.75 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 91 Resp: 591642

Ion	Ratio	Lower	Upper
91	100		
106	42.8	12.4	72.4
105	19.9	0.0	49.8

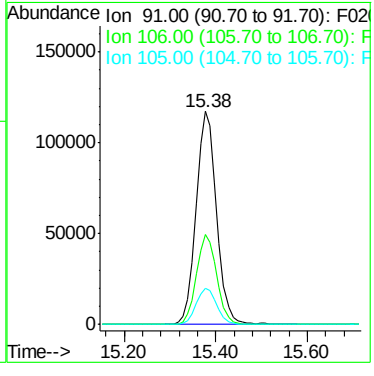


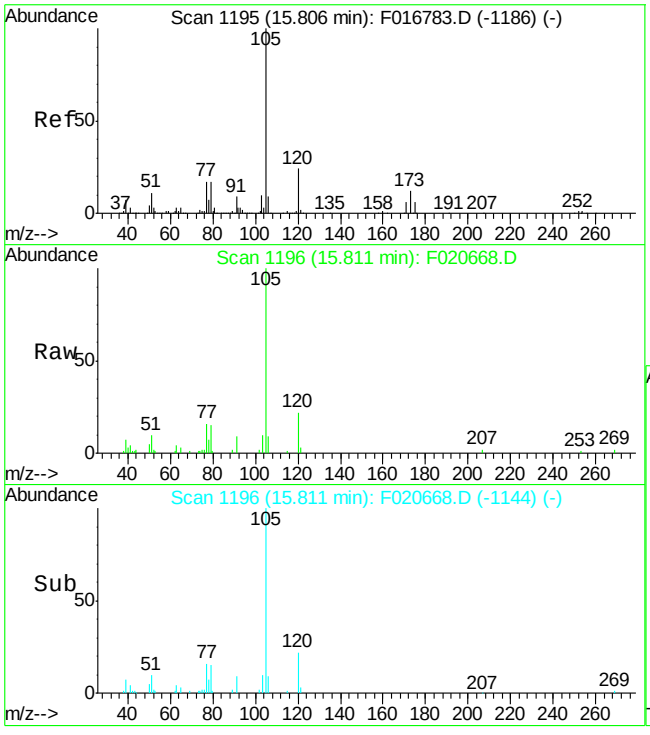


#77
o-Xylene
Concen: 18.66 ug/L
RT: 15.38 min Scan# 1152
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 91 Resp: 361606

Ion	Ratio	Lower	Upper
91	100		
106	42.4	9.6	69.6
105	17.1	0.0	49.9

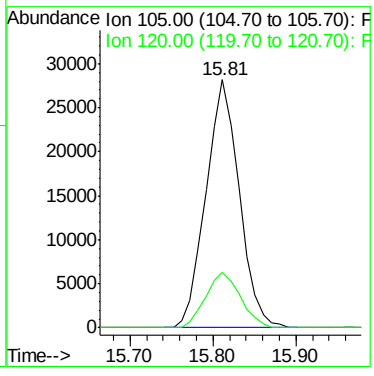


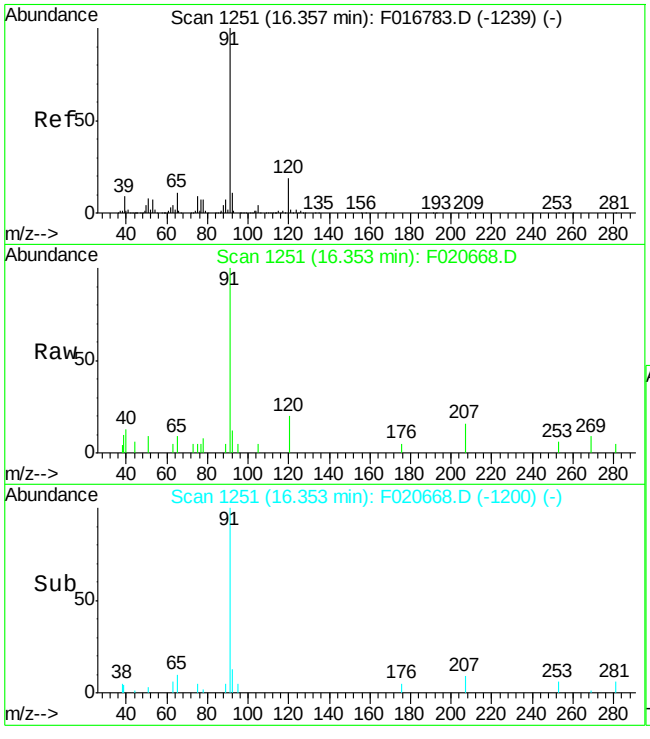


#81
Isopropylbenzene
Concen: 4.32 ug/L
RT: 15.81 min Scan# 1196
Delta R.T. 0.01 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion:105 Resp: 78224

Ion	Ratio	Lower	Upper
105	100		
120	22.5	0.0	52.8

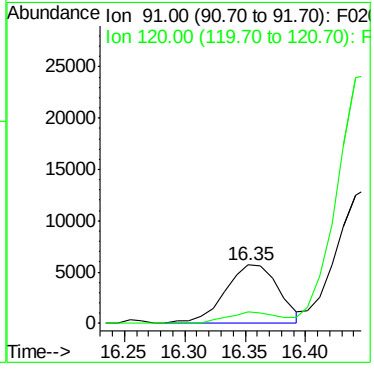


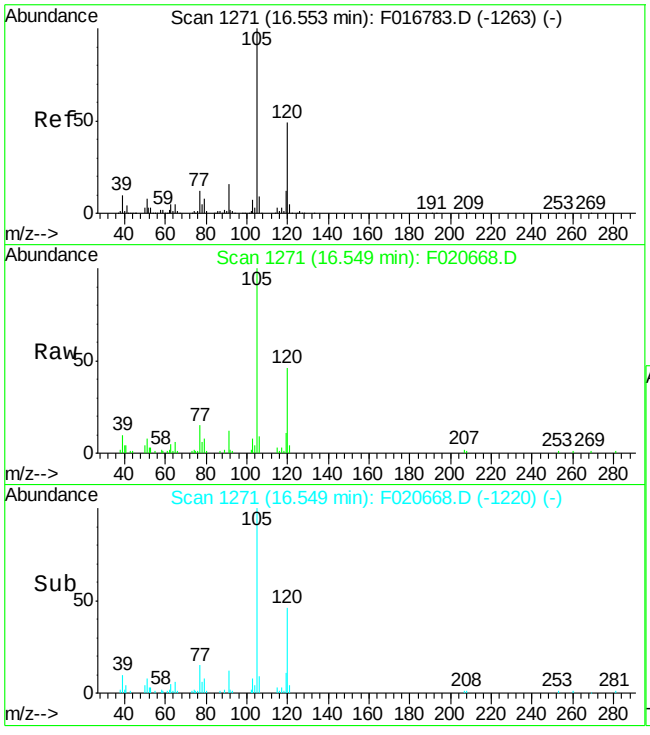


#88
n-Propylbenzene
Concen: 0.71 ug/L
RT: 16.35 min Scan# 1251
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion: 91 Resp: 17579

Ion	Ratio	Lower	Upper
91	100		
120	19.6	0.0	49.3

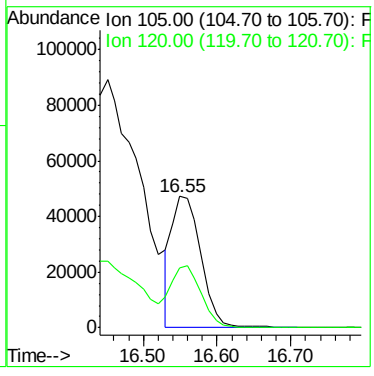


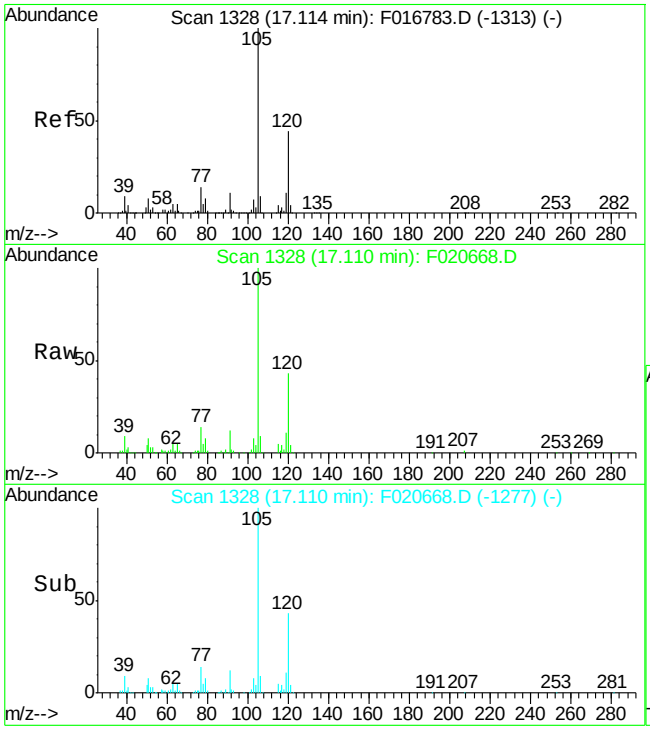


#91
1,3,5-Trimethylbenzene
Concen: 7.84 ug/L
RT: 16.55 min Scan# 1271
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion:105 Resp: 128792

Ion	Ratio	Lower	Upper
105	100		
120	45.9	15.7	75.7

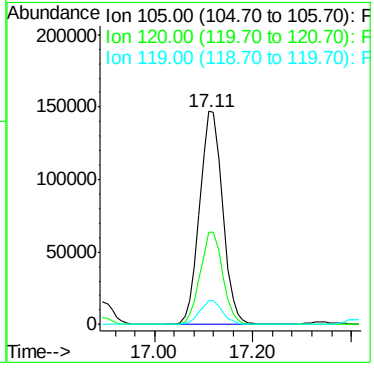


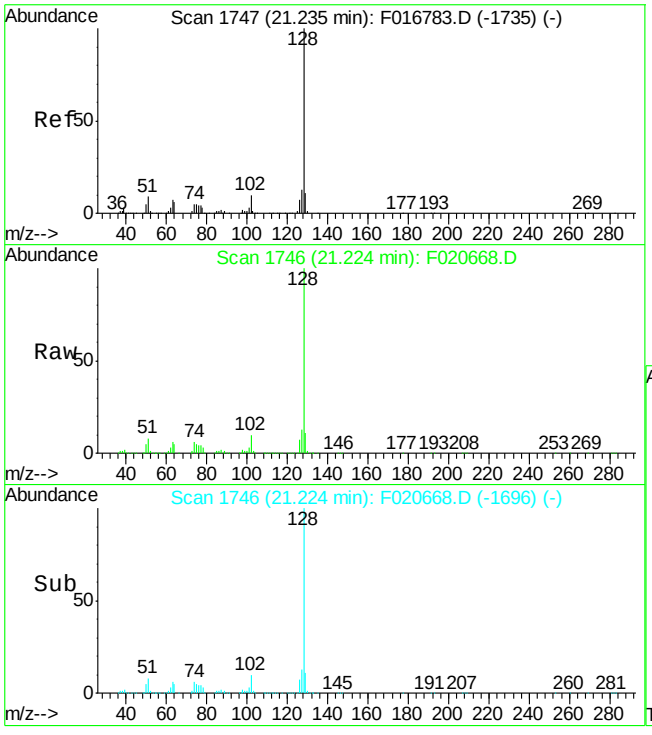


#100
1,2,4-Trimethylbenzene
Concen: 27.33 ug/L
RT: 17.11 min Scan# 1328
Delta R.T. 0.00 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion:105 Resp: 480054

Ion	Ratio	Lower	Upper
105	100		
120	43.4	12.2	72.2
119	11.0	0.0	40.6

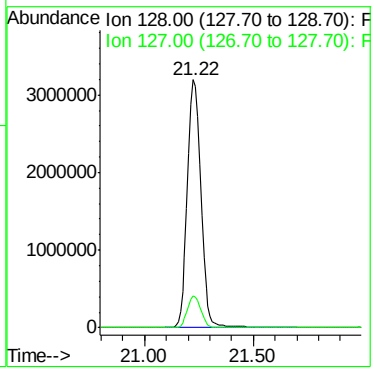




#105
Naphthalene
Concen: 2097.53 ug/L
RT: 21.22 min Scan# 1746
Delta R.T. -0.01 min
Lab File: F020668.D
Acq: 9 Oct 2009 6:32 pm

Tgt Ion:128 Resp:13843499

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020669.D Vial: 17
Acq On : 9 Oct 2009 7:02 pm Operator: AnjanaP
Sample : t39314-6 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:08 2009 Quant Results File: VF3547AP9G.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1229516	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.58	117	947128	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	507146	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	507146	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	341806	46.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 93.78%			
45) 1,2-Dichloroethane-d4	10.29	65	402959	43.26	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 86.52%			
62) Toluene-d8	12.57	98	997272	44.76	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.52%			
83) 4-Bromofluorobenzene	16.15	95	436360	45.54	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.08%			

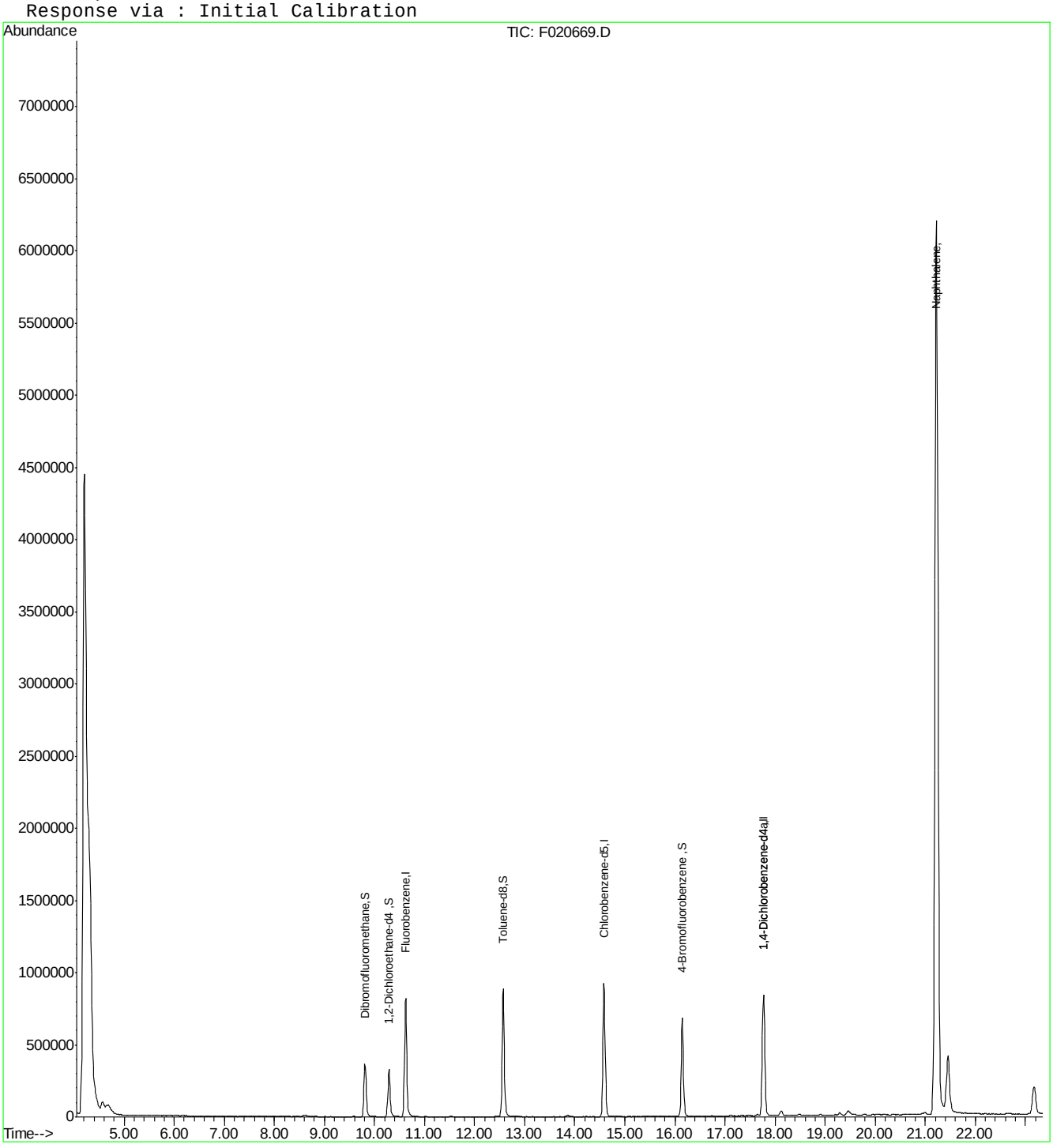
Target Compounds						Qvalue
105) Naphthalene	21.22	128	12751603	1523.99	ug/L	99

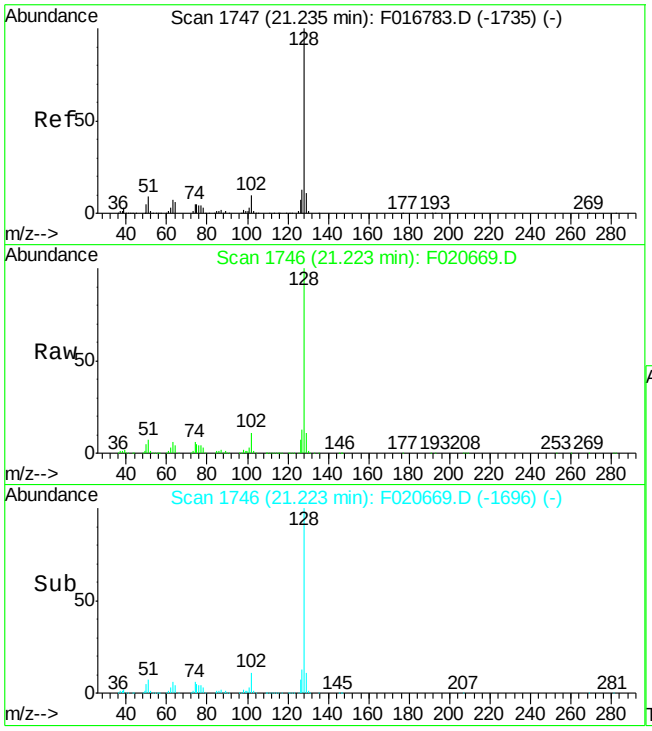
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020669.D Vial: 17
Acq On : 9 Oct 2009 7:02 pm Operator: AnjanaP
Sample : t39314-6 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:09 2009 Quant Results File: VF3547AP9G.RES

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

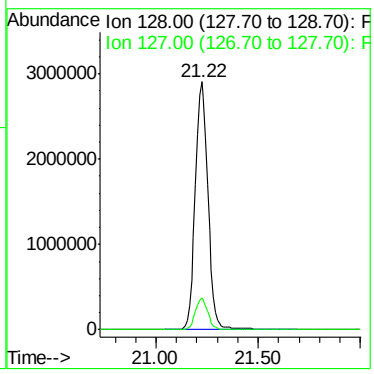




#105
Naphthalene
Concen: 1523.99 ug/L
RT: 21.22 min Scan# 1746
Delta R.T. -0.01 min
Lab File: F020669.D
Acq: 9 Oct 2009 7:02 pm

Tgt Ion:128 Resp:12751603

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020659.D Vial: 7
Acq On : 9 Oct 2009 2:00 pm Operator: AnjanaP
Sample : t39314-7 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:55:57 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	1012812	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	784029	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	422825	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	422825	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	290956	48.45	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.90%			
45) 1,2-Dichloroethane-d4	10.31	65	365156	47.79	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 95.58%			
62) Toluene-d8	12.60	98	861930	46.67	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 93.34%			
83) 4-Bromofluorobenzene	16.17	95	367292	45.97	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.94%			

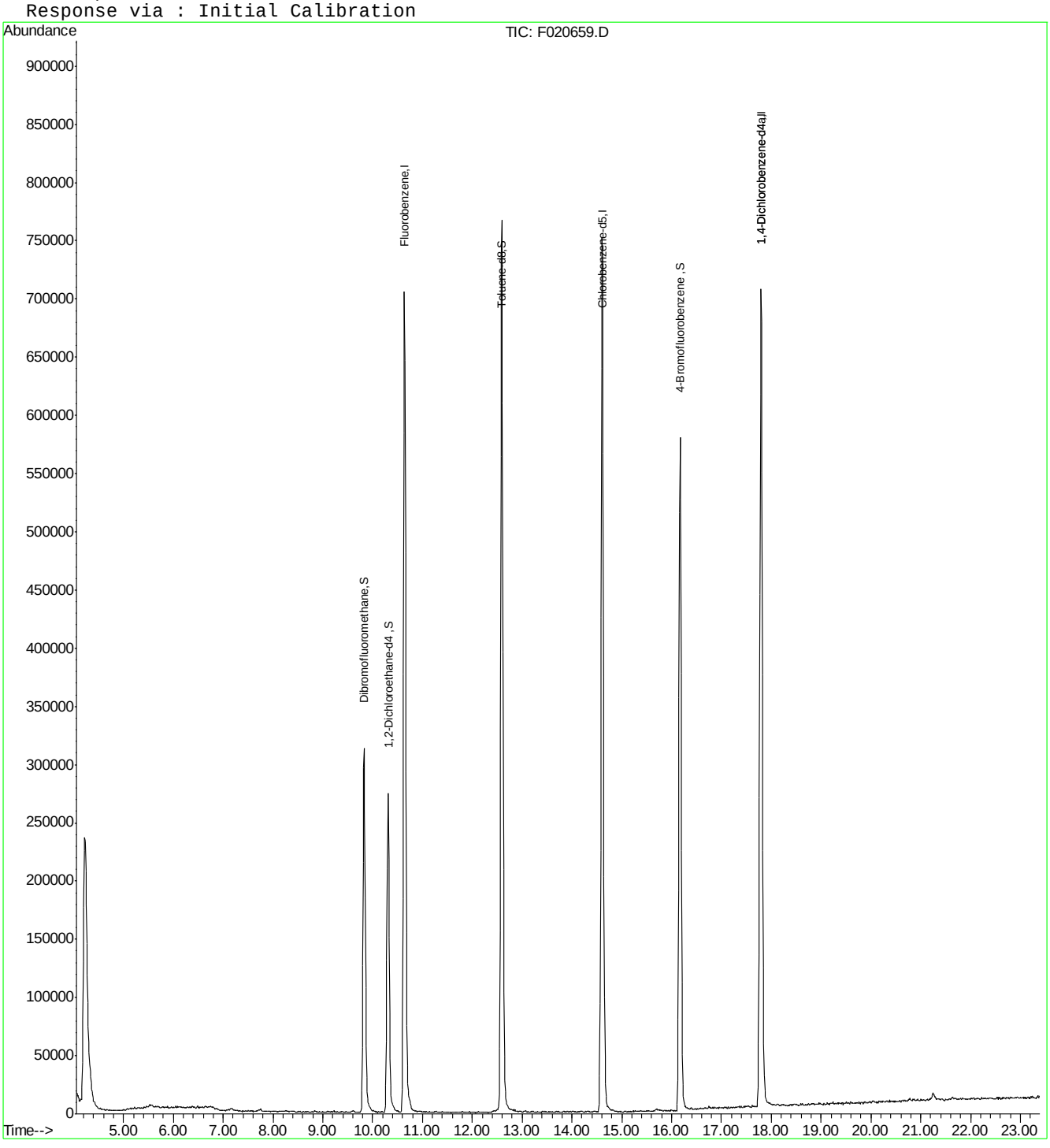
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020659.D VF3547AP9G.M Mon Oct 12 11:45:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020659.D Vial: 7
Acq On : 9 Oct 2009 2:00 pm Operator: AnjanaP
Sample : t39314-7 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:01 2009 Quant Results File: VF3547AP9G.RES

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



F020659.D VF3547AP9G.M Mon Oct 12 11:45:55 2009 Page 2

Quantitation Report (QT Reviewed)

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

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

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

System Monitoring Compounds

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

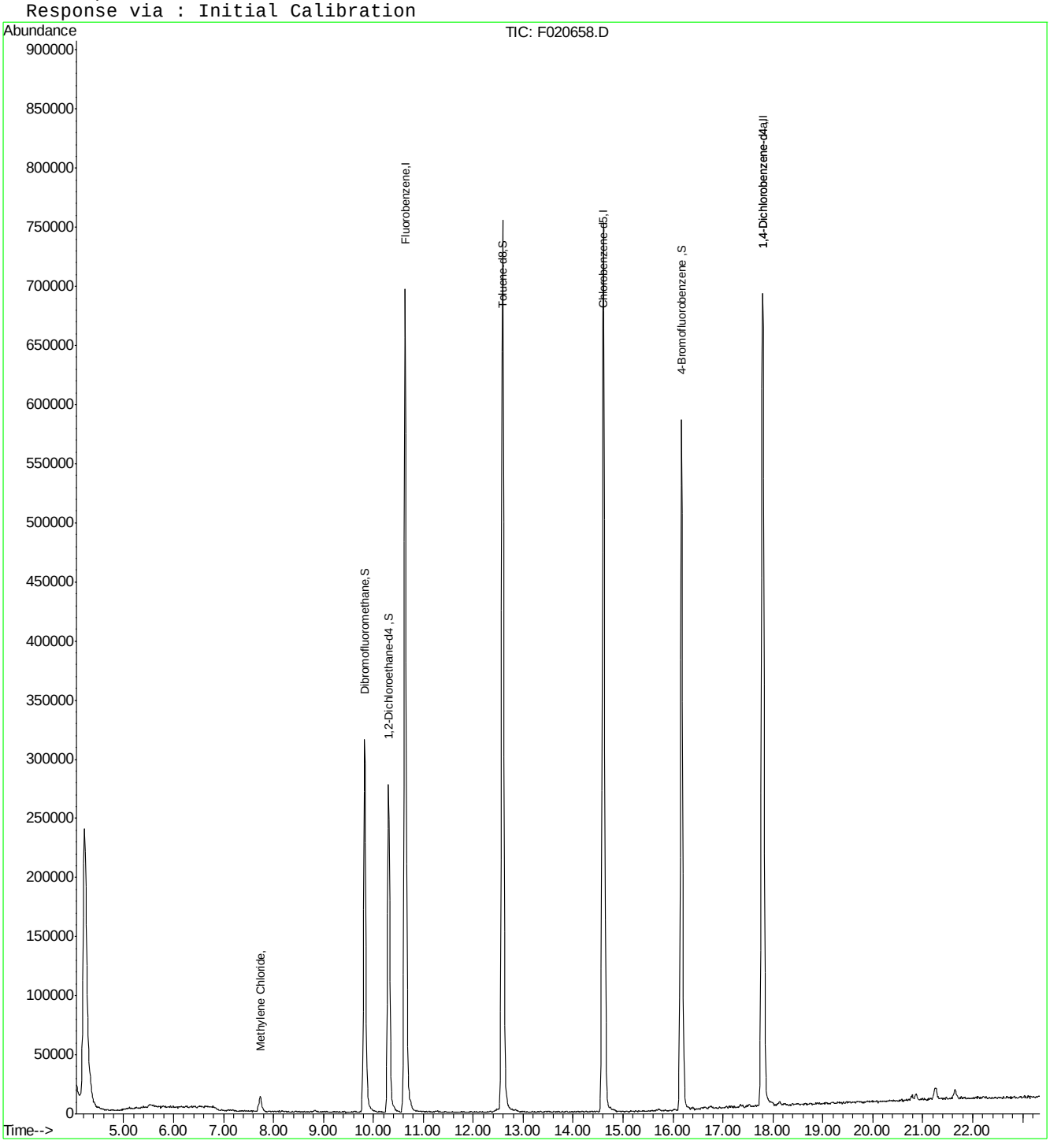
Target Compounds						Qvalue
18) Methylene Chloride	7.74	49	15344	1.97	ug/L	96

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

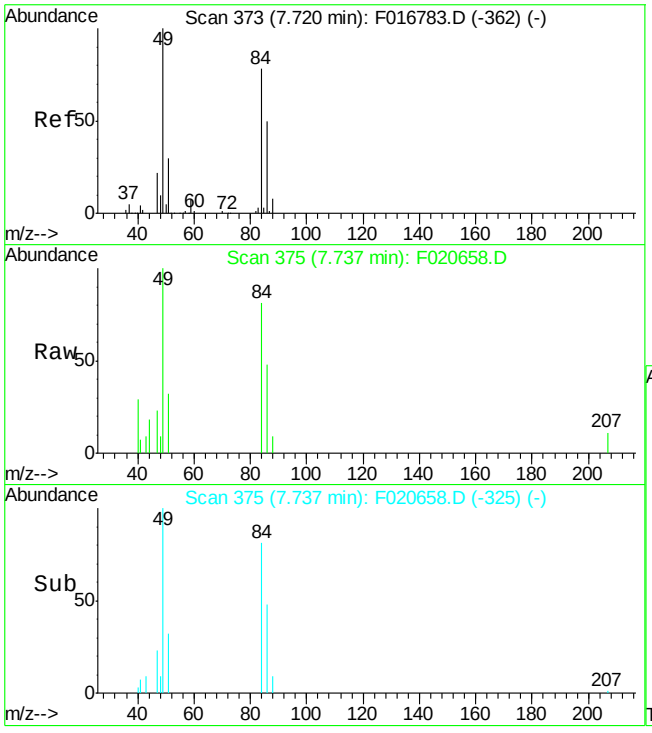
Quantitation Report (QT Reviewed)

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

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



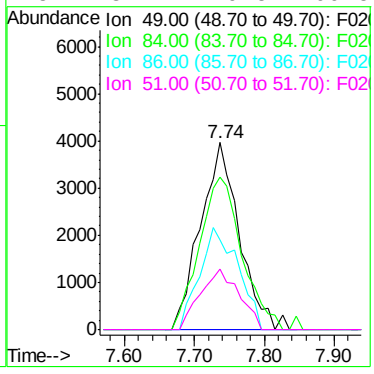
F020658.D VF3547AP9G.M Mon Oct 12 11:45:53 2009 Page 2



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

Tgt Ion: 49 Resp: 15344

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



6.2.1

6

Quantitation Report (QT Reviewed)

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

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

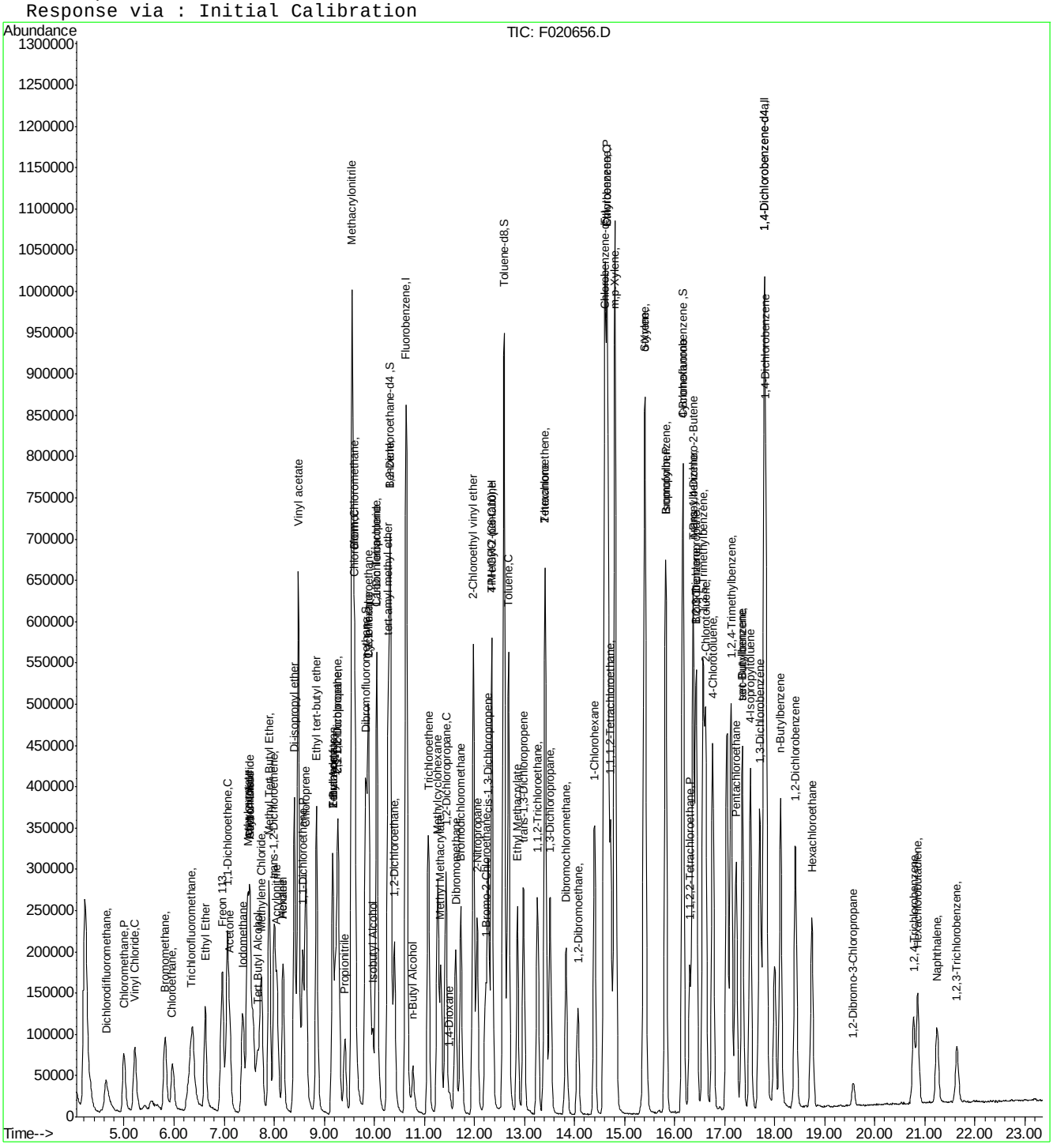
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	532667	23.57	ug/L	96
92)	Pentachloroethane	17.23	167	124927	21.75	uL/L	99
93)	sec-Butylbenzene	17.36	105	610641	24.50	ug/L	99
94)	1,3-Dichlorobenzene	17.70	146	332249	23.88	ug/L	98
95)	4-Isopropyltoluene	17.51	119	485092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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

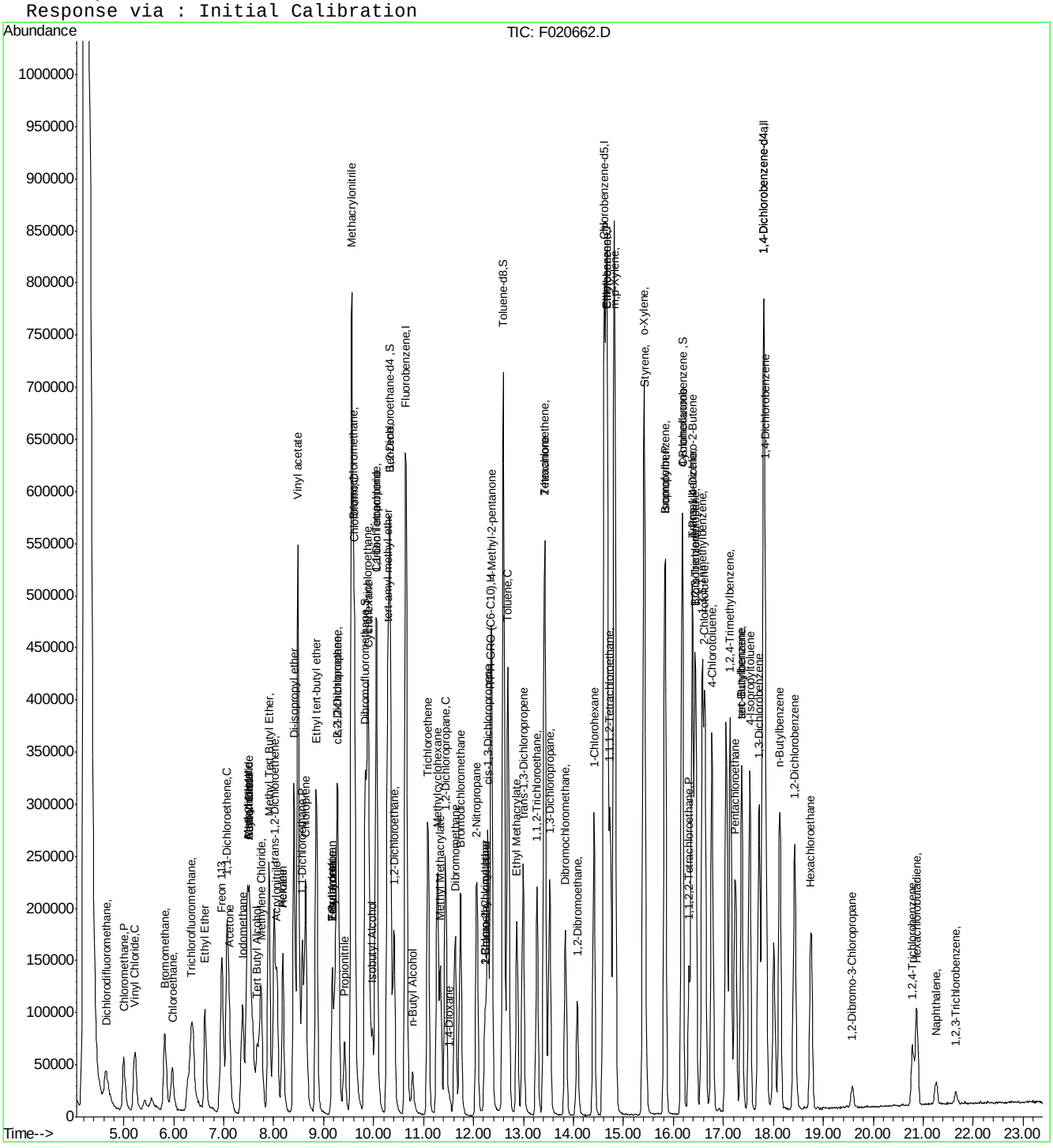
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	413021	24.55	ug/L	100
92)	Pentachloroethane	17.24	167	94190	22.02	uL/L	96
93)	sec-Butylbenzene	17.37	105	446852	24.08	ug/L	99
94)	1,3-Dichlorobenzene	17.72	146	258948	25.00	ug/L	98
95)	4-Isopropyltoluene	17.53	119	354516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

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

Quantitation Report (QT Reviewed)

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

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



F020662.D VF3547AP9G.M Mon Oct 12 11:45:30 2009 Page 4

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

Quantitation Report (QT Reviewed)

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

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

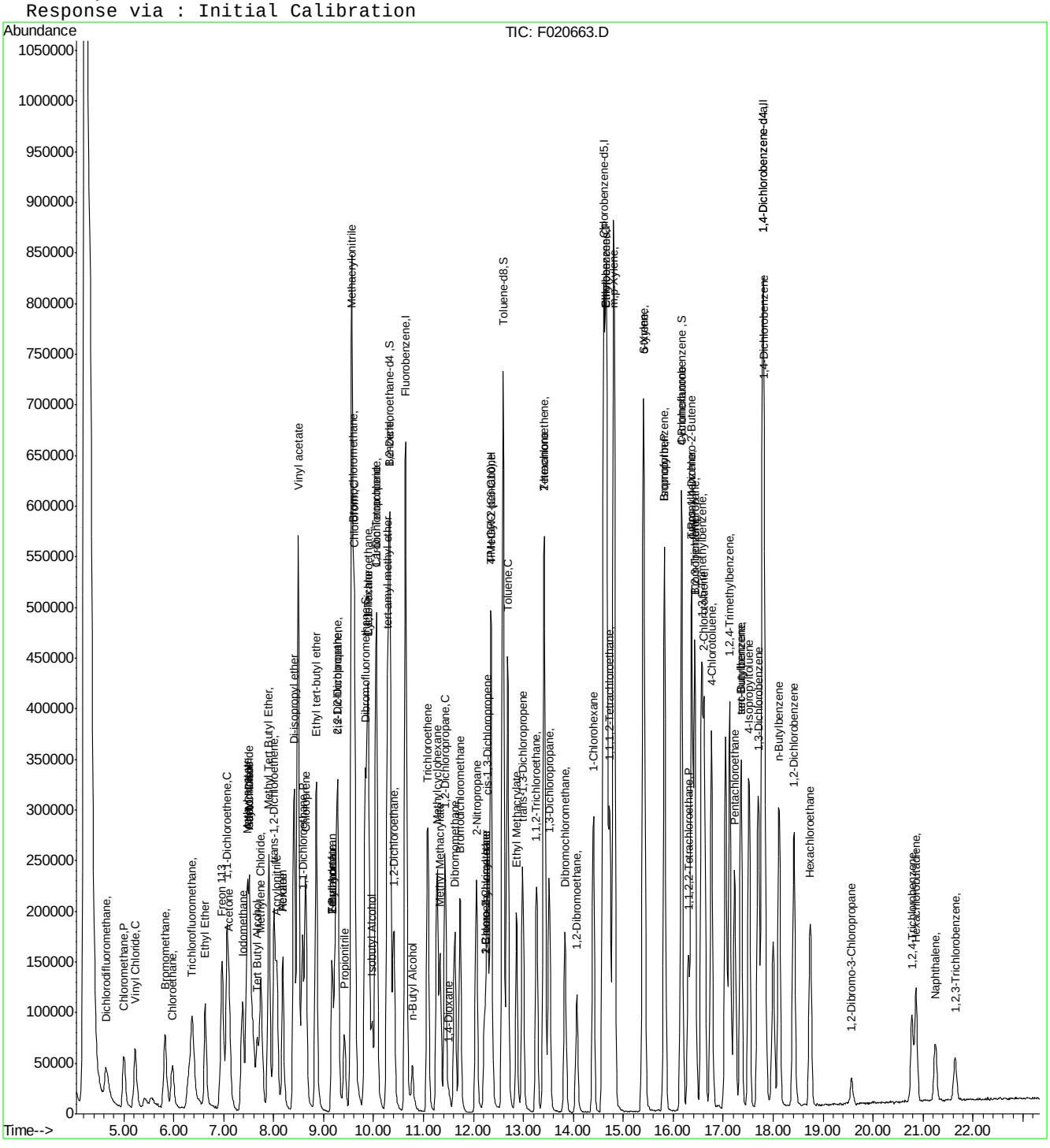
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	429587	24.41	ug/L	100
92)	Pentachloroethane	17.23	167	97569	21.81	uL/L	99
93)	sec-Butylbenzene	17.36	105	457029	23.55	ug/L	100
94)	1,3-Dichlorobenzene	17.70	146	270307	24.95	ug/L	99
95)	4-Isopropyltoluene	17.51	119	365439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

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

Quantitation Report (QT Reviewed)

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

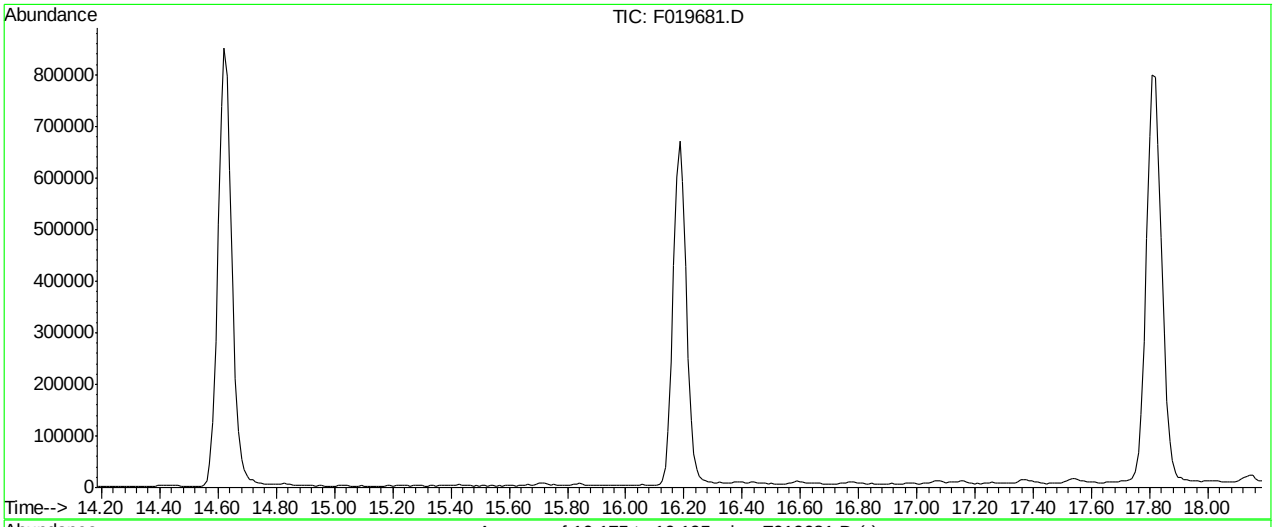
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

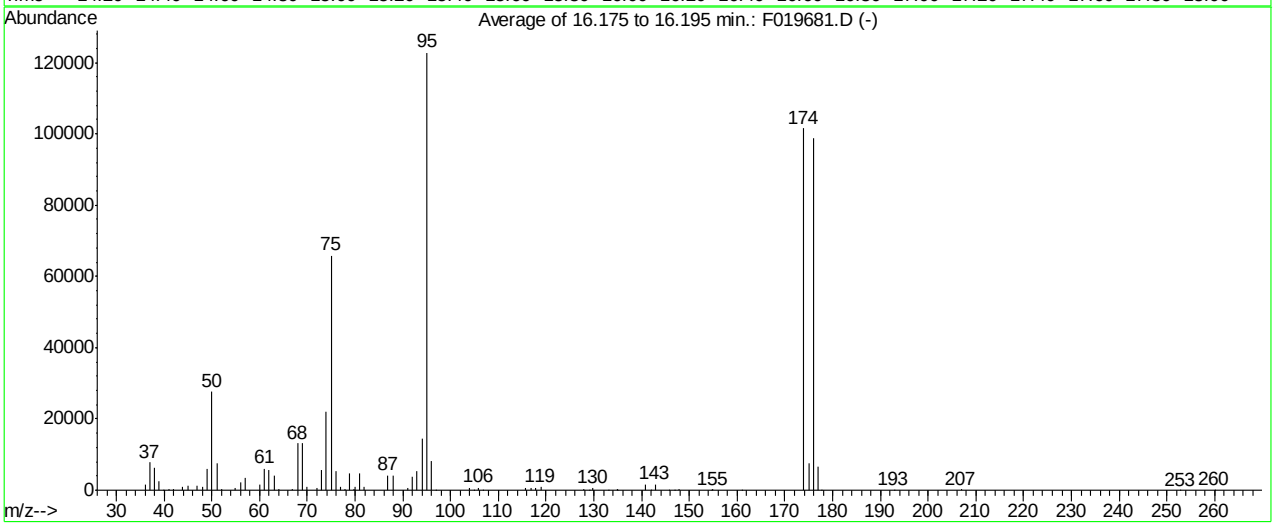


ACCUTEST Laboratories T39314

Methods: SW-846 8260B

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





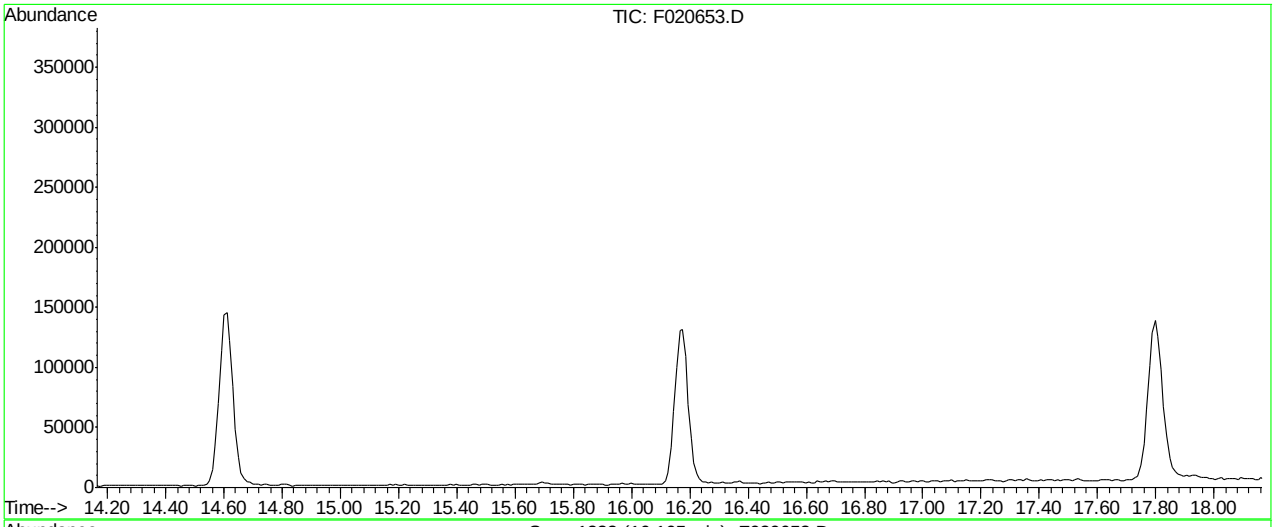
AutoFind: Scans 1233, 1234, 1235; Background Corrected with Scan 1224

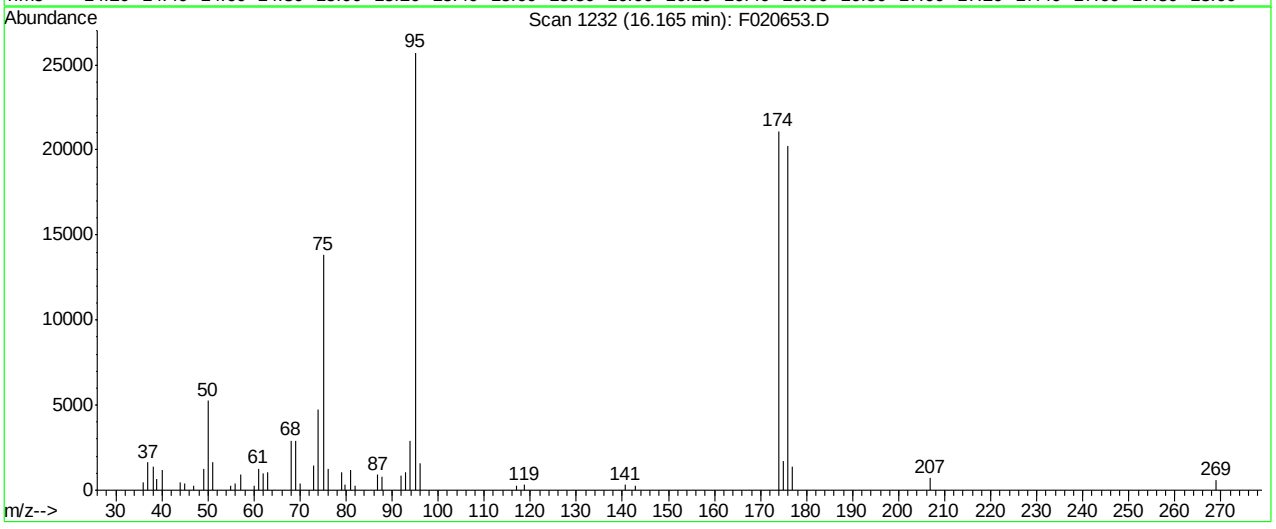
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	27589	PASS
75	95	30	60	53.6	65813	PASS
95	95	100	100	100.0	122850	PASS
96	95	5	9	6.8	8327	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.7	101570	PASS
175	174	5	9	7.5	7649	PASS
176	174	95	101	97.1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

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

Methods: SW-846 8260B

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





Spectrum Information: Scan 1232

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

ACCUTEST Laboratories T39314

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

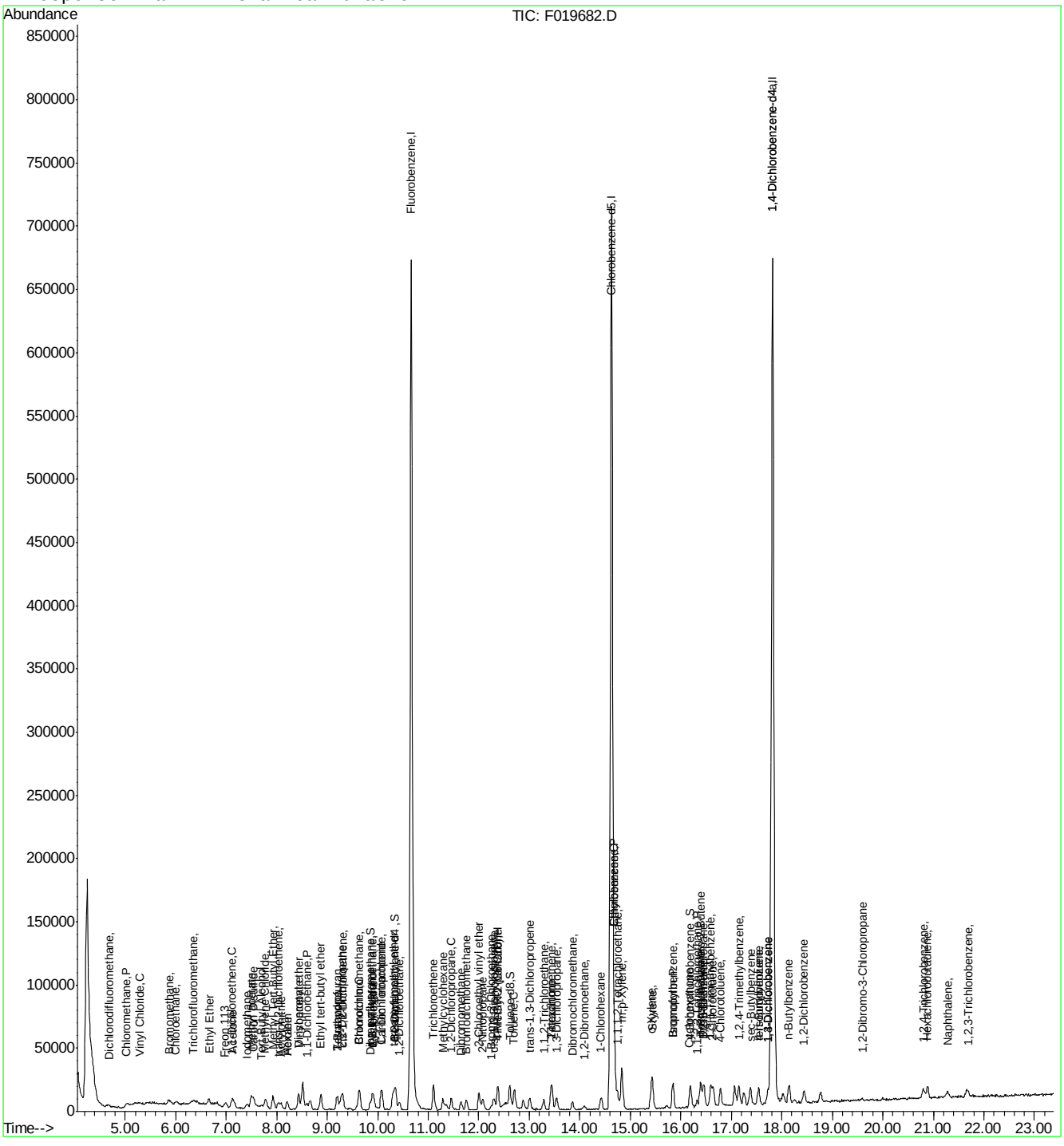
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93)	Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94)	Naphthalene	21.28	128	10874	1.28	ug/L	98
95)	1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97)	TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = 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 T39314

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

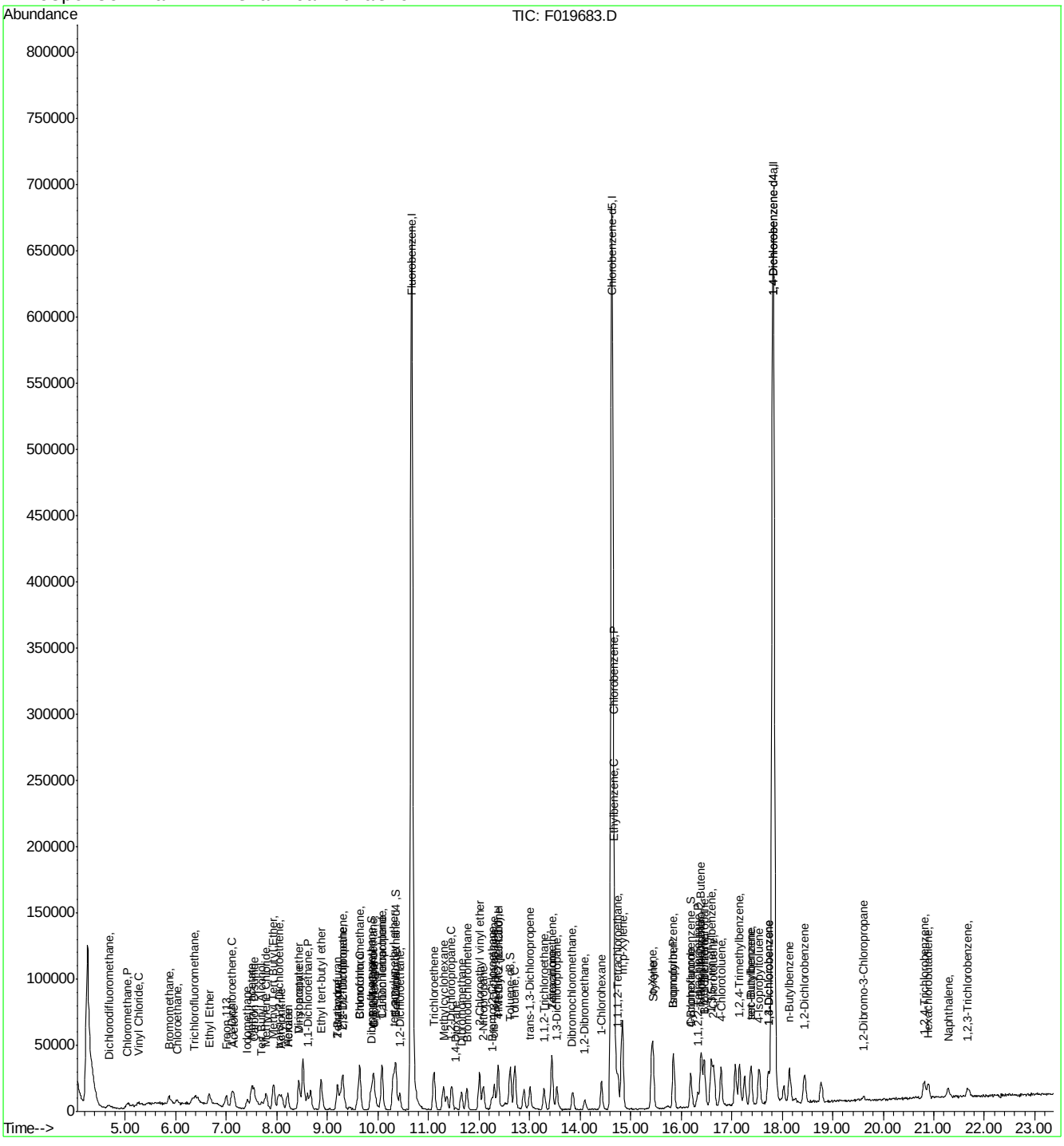
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92) 1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93) Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94) Naphthalene	21.28	128	13984	1.46	ug/L	80
95) 1,2,3-Trichlorobenzene	21.67	180	6548	1.62	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
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 2009 Quant Results File: VF3547.RES

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



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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

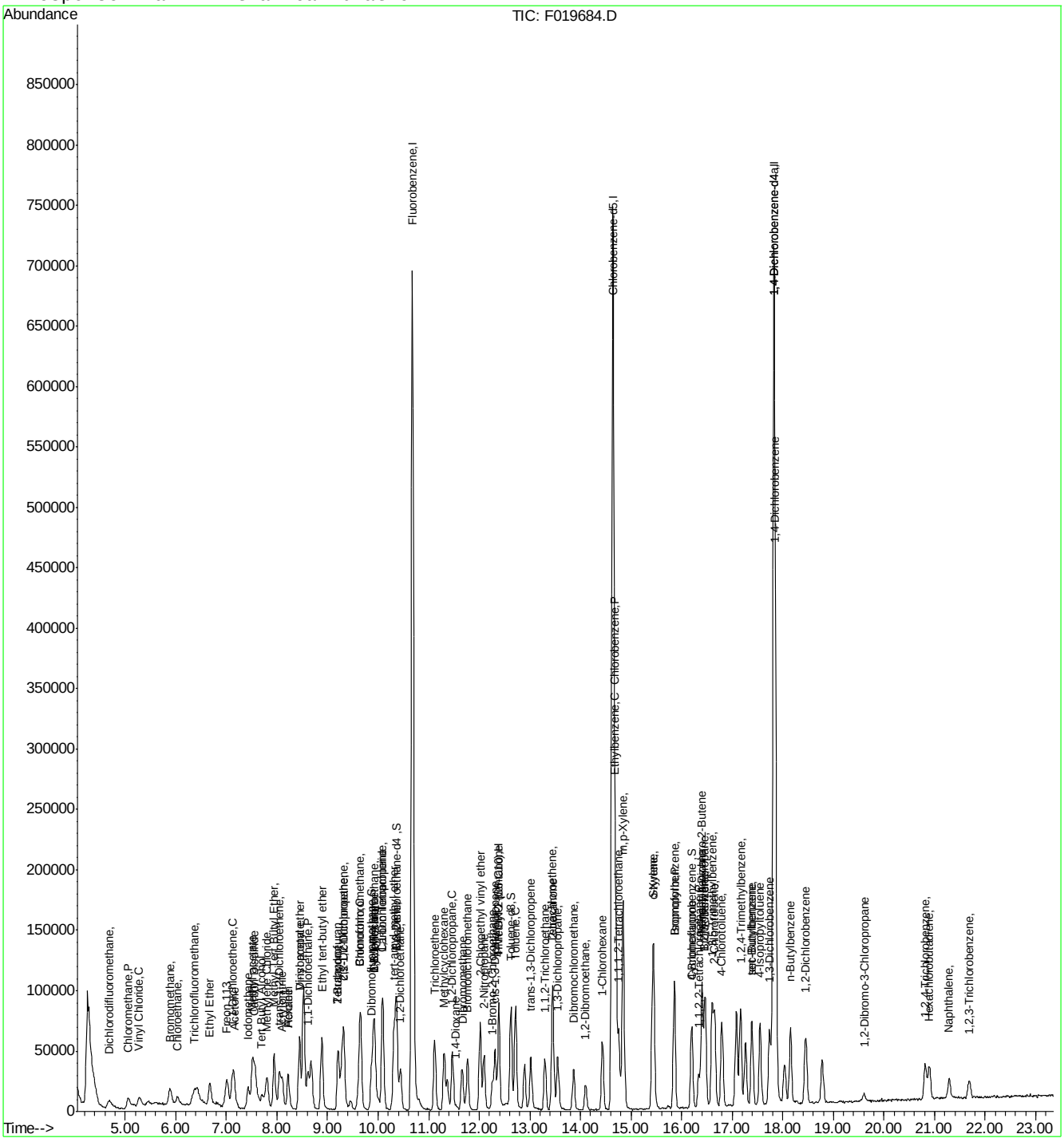
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92)	1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93)	Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94)	Naphthalene	21.29	128	30446	3.32	ug/L	93
95)	1,2,3-Trichlorobenzene	21.69	180	13294	3.33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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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

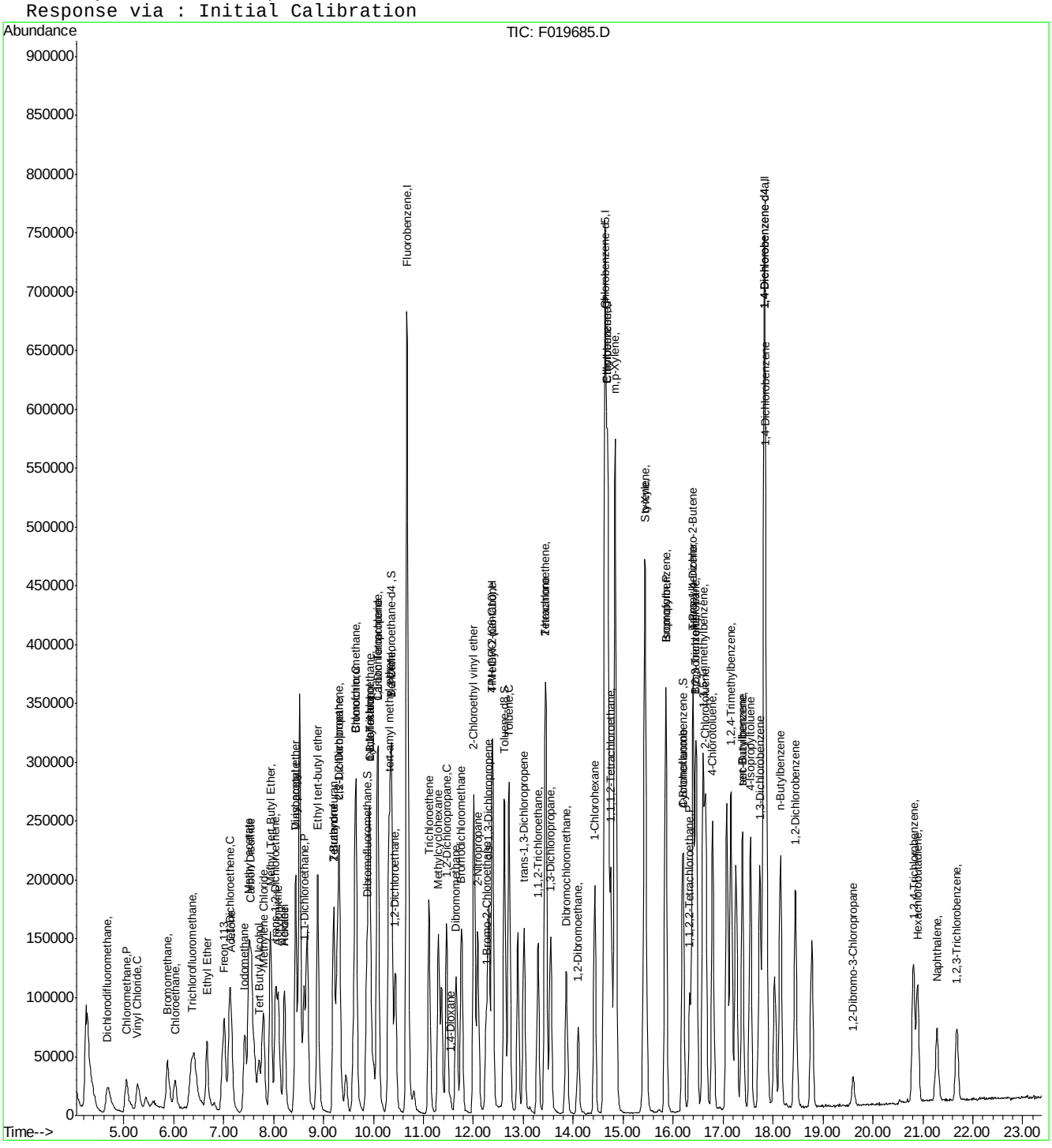
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	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 T39314

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

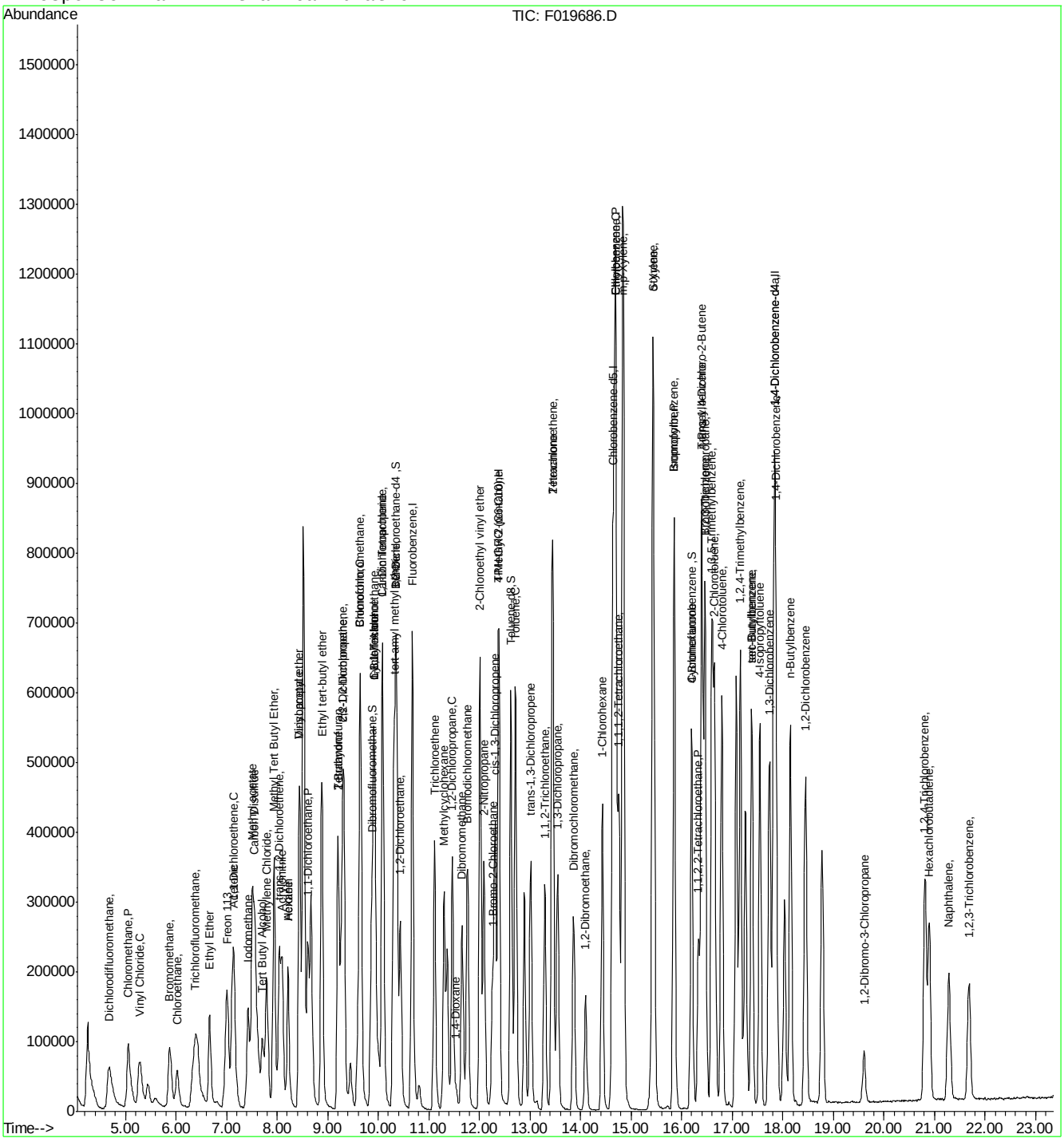
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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

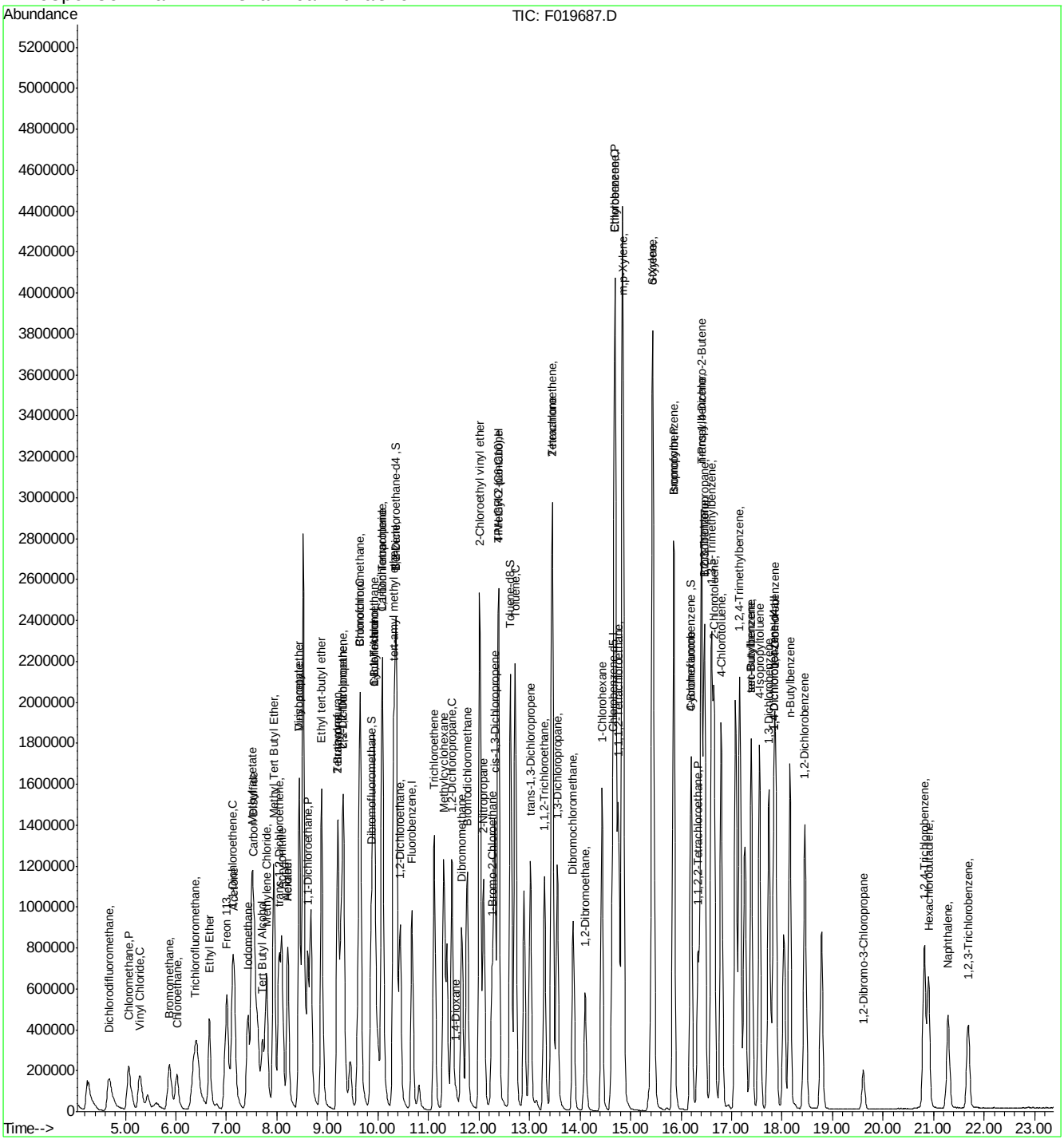
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	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 T39314

F019688.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 09/15/09 17:42

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

ACCUTEST Laboratories T39314

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

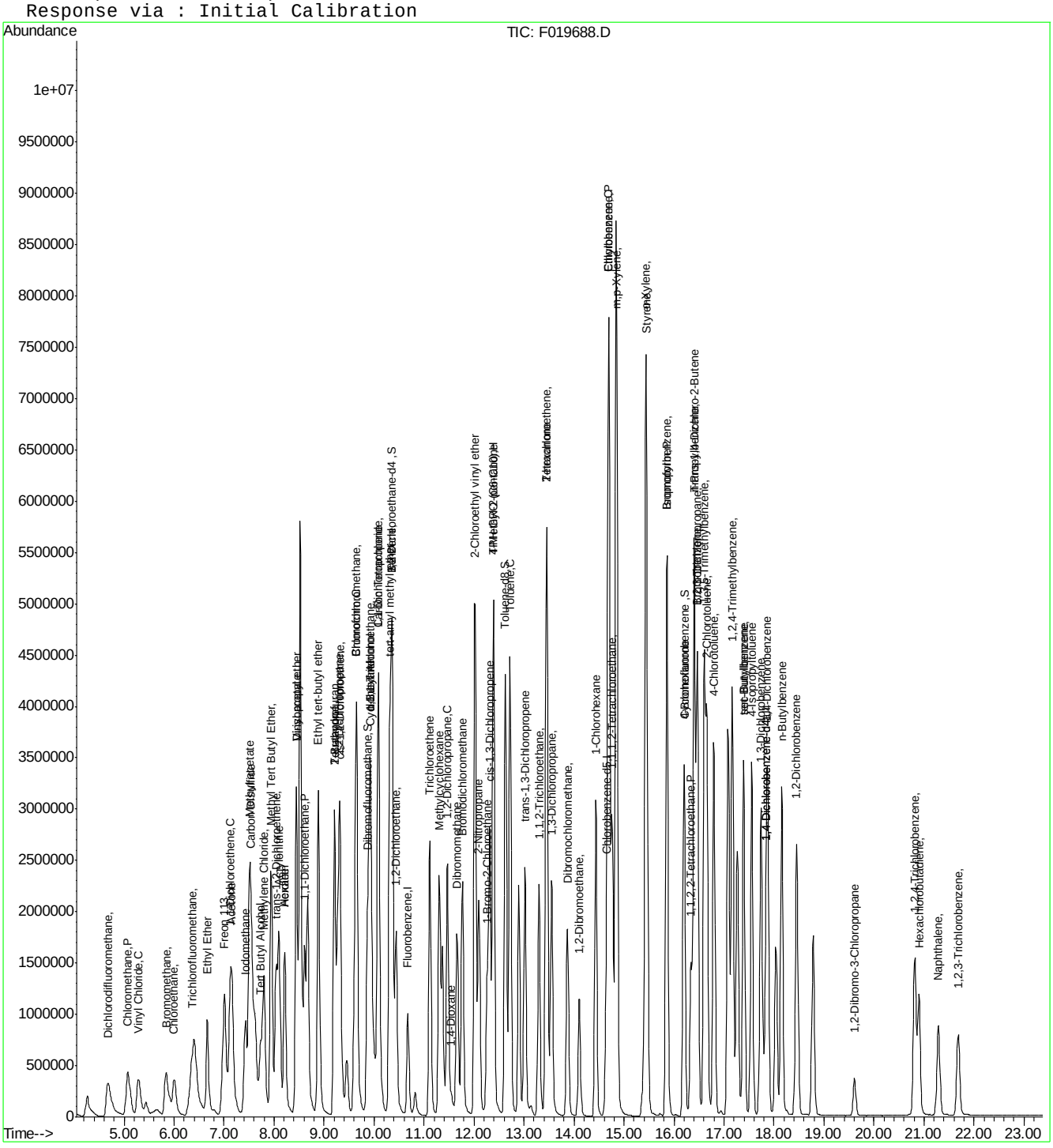
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92) 1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93) Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94) Naphthalene	21.28	128	1803651	172.78	ug/L	100
95) 1,2,3-Trichlorobenzene	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 T39314

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 T39314

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

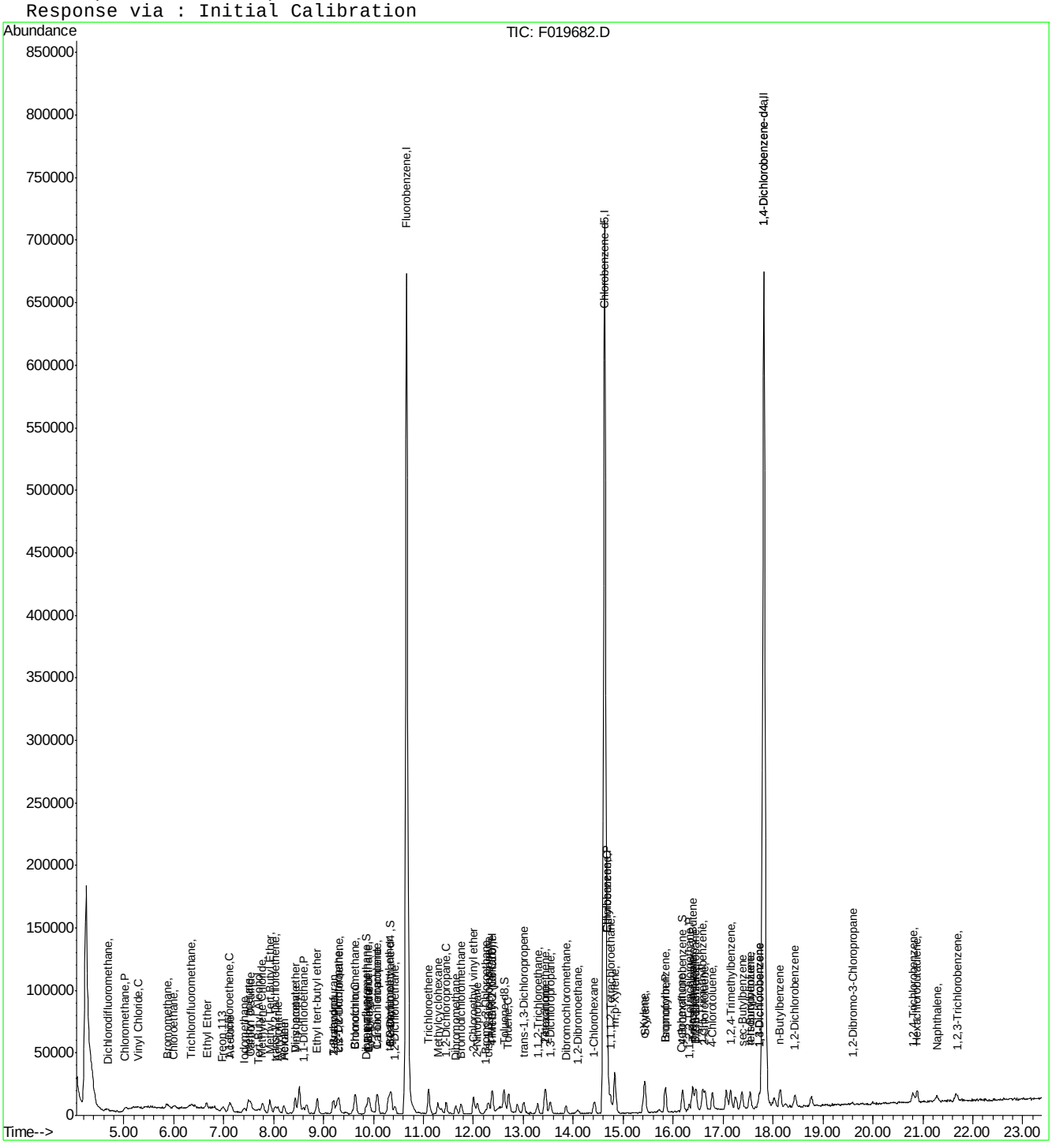
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93)	Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94)	Naphthalene	21.28	128	10874	1.28	ug/L	98
95)	1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97)	TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = 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 T39314

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

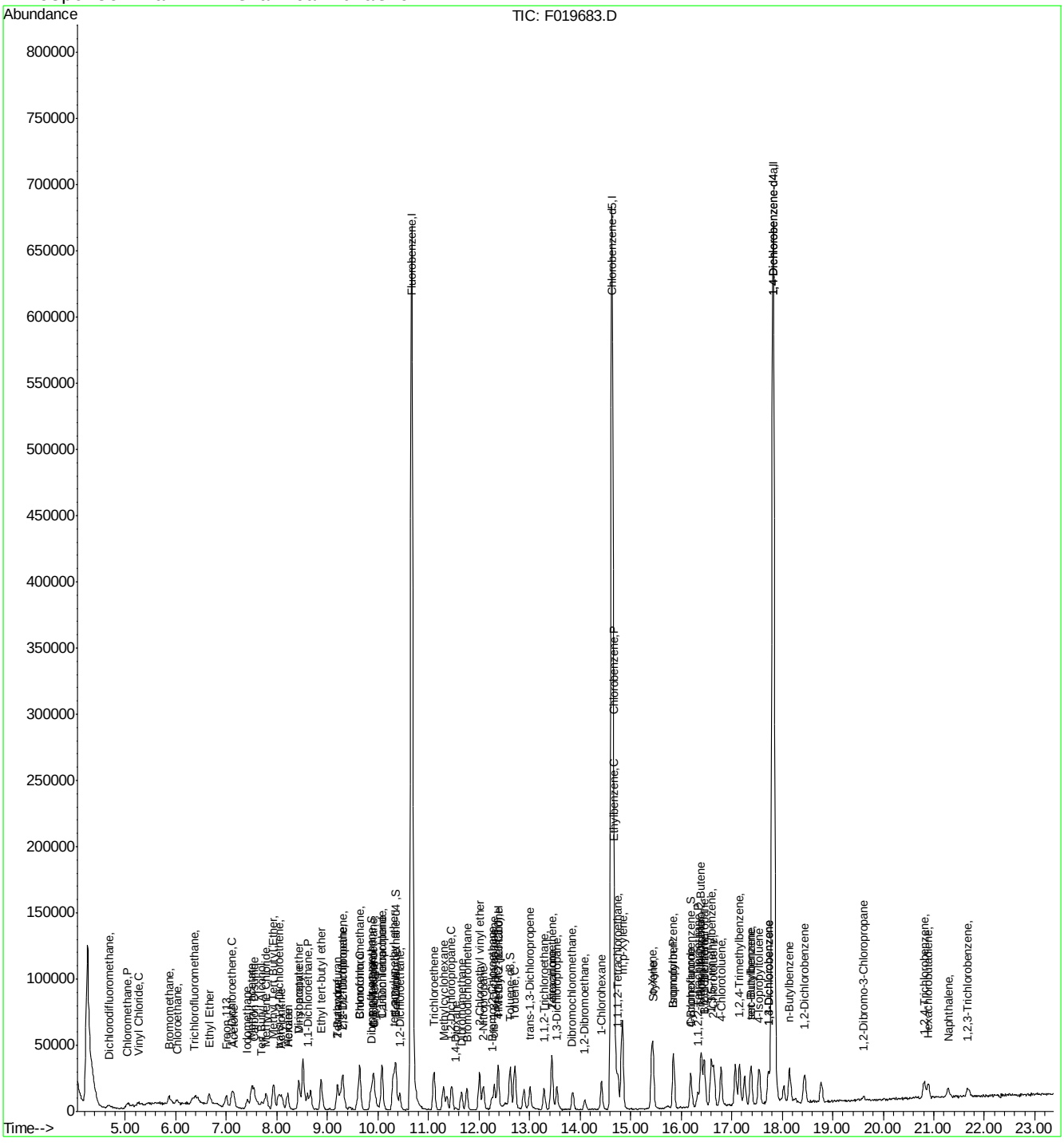
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62	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 T39314

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

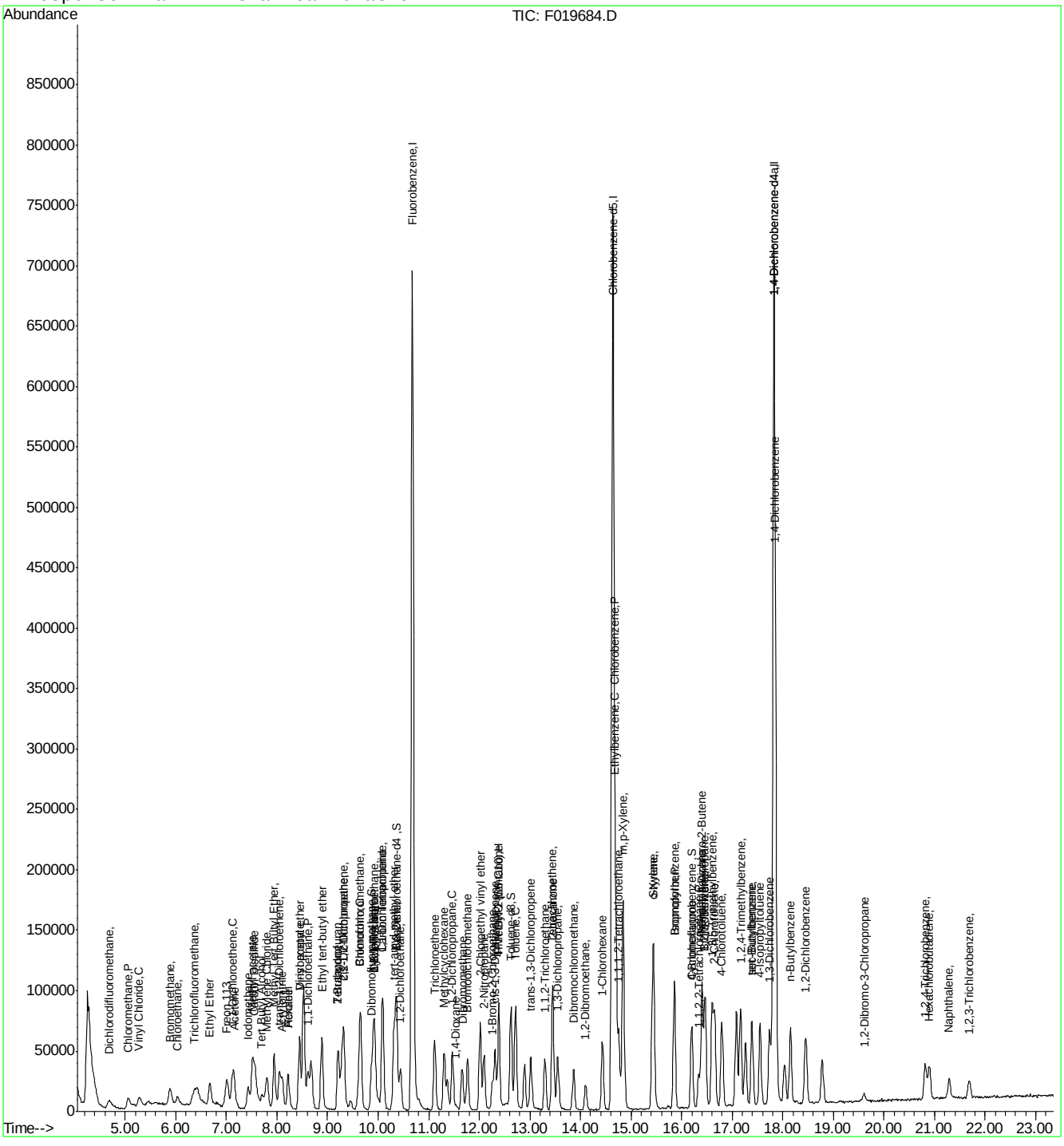
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92)	1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93)	Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94)	Naphthalene	21.29	128	30446	3.32	ug/L	93
95)	1,2,3-Trichlorobenzene	21.69	180	13294	3.33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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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

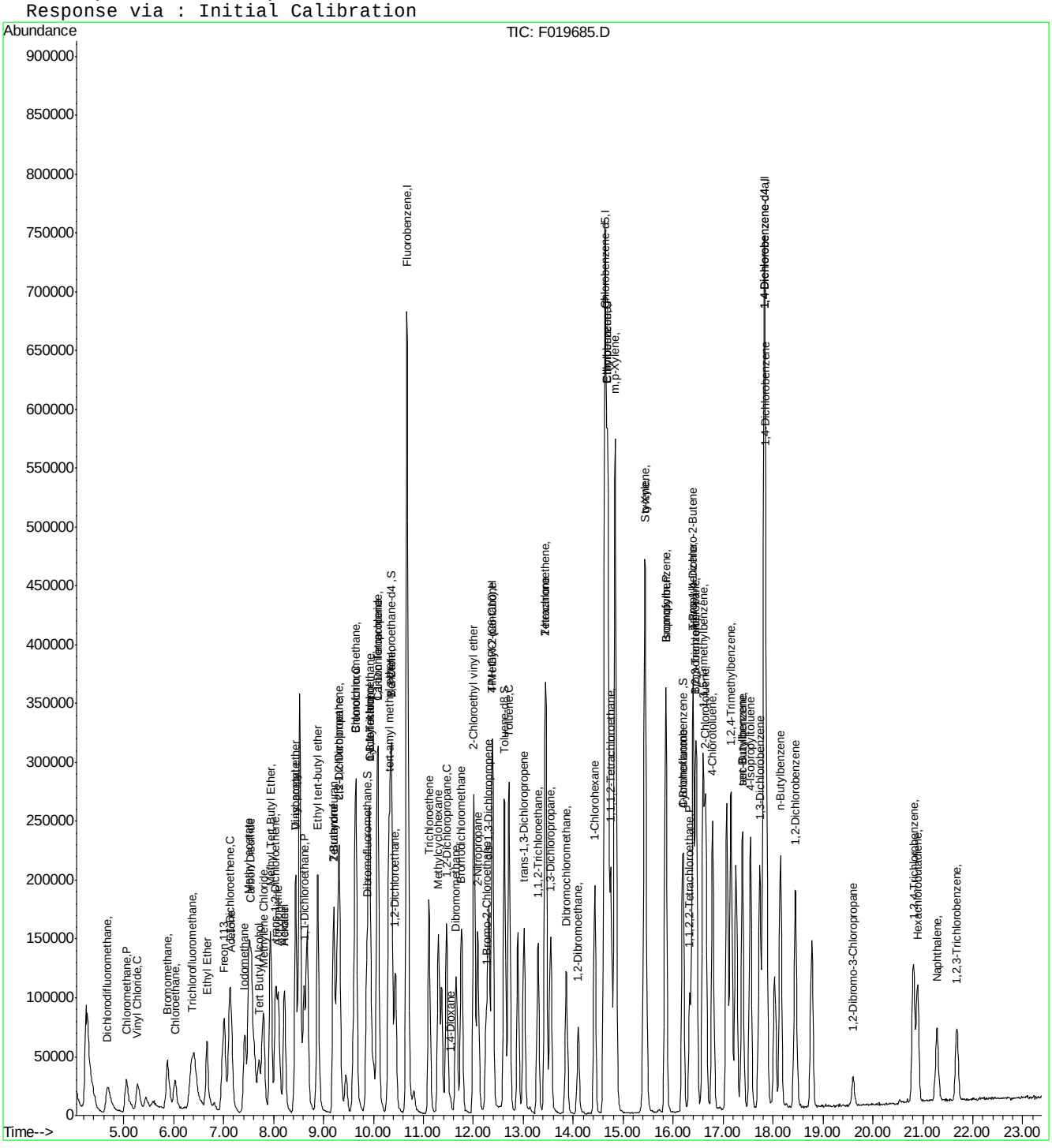
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	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 T39314

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

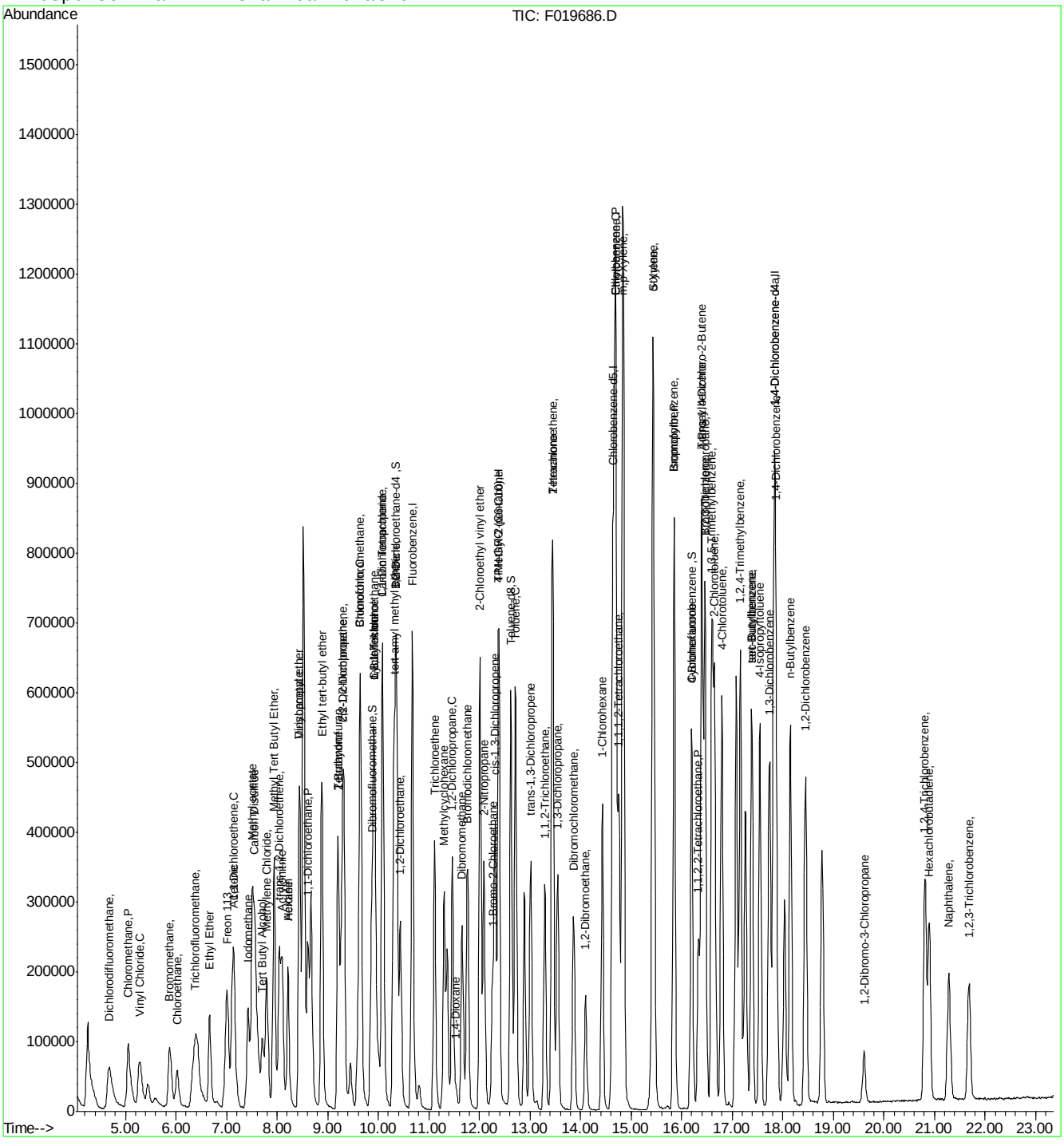
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

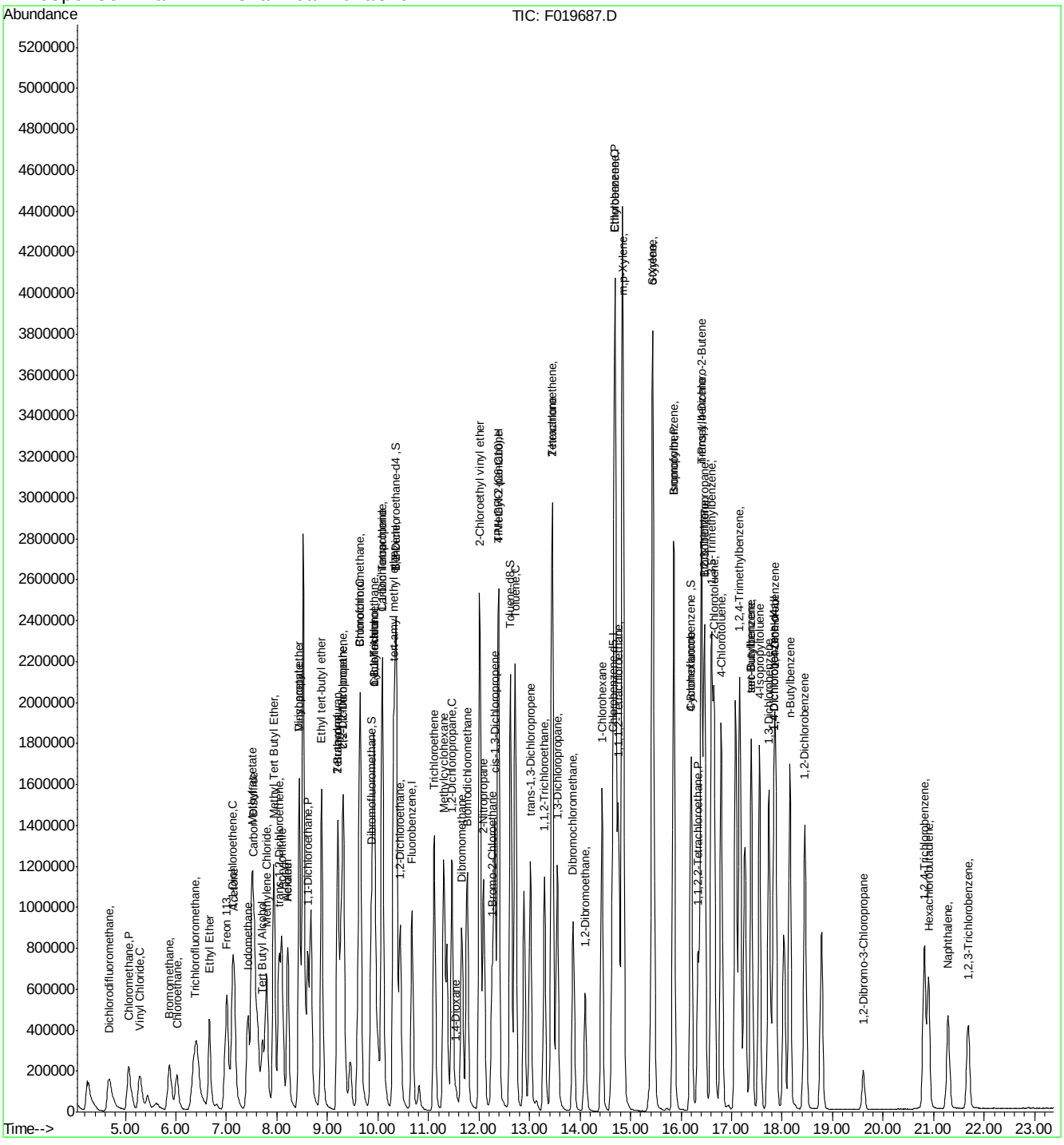
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39314

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 T39314

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

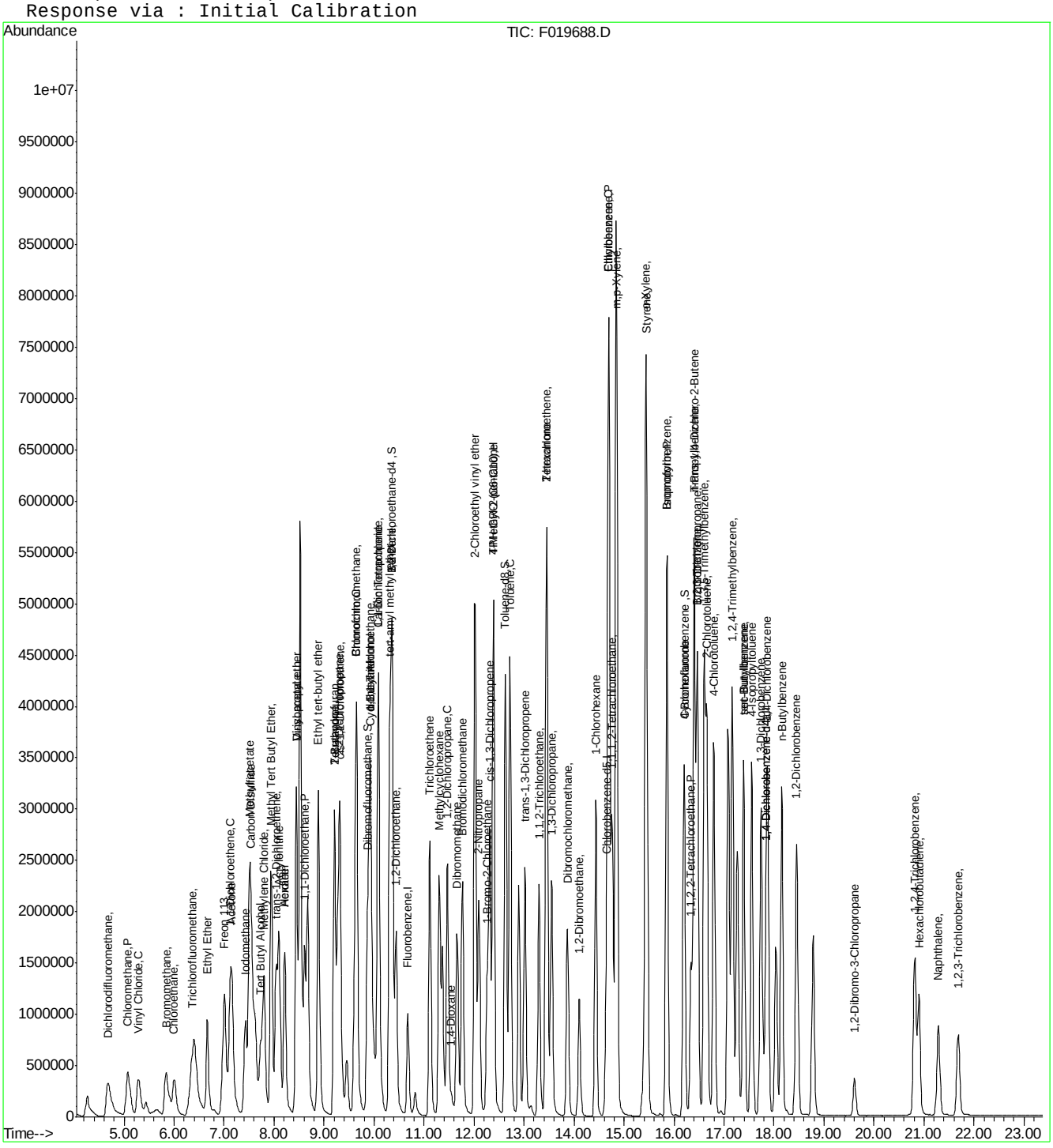
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92)	1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93)	Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94)	Naphthalene	21.28	128	1803651	172.78	ug/L	100
95)	1,2,3-Trichlorobenzene	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 T39314

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

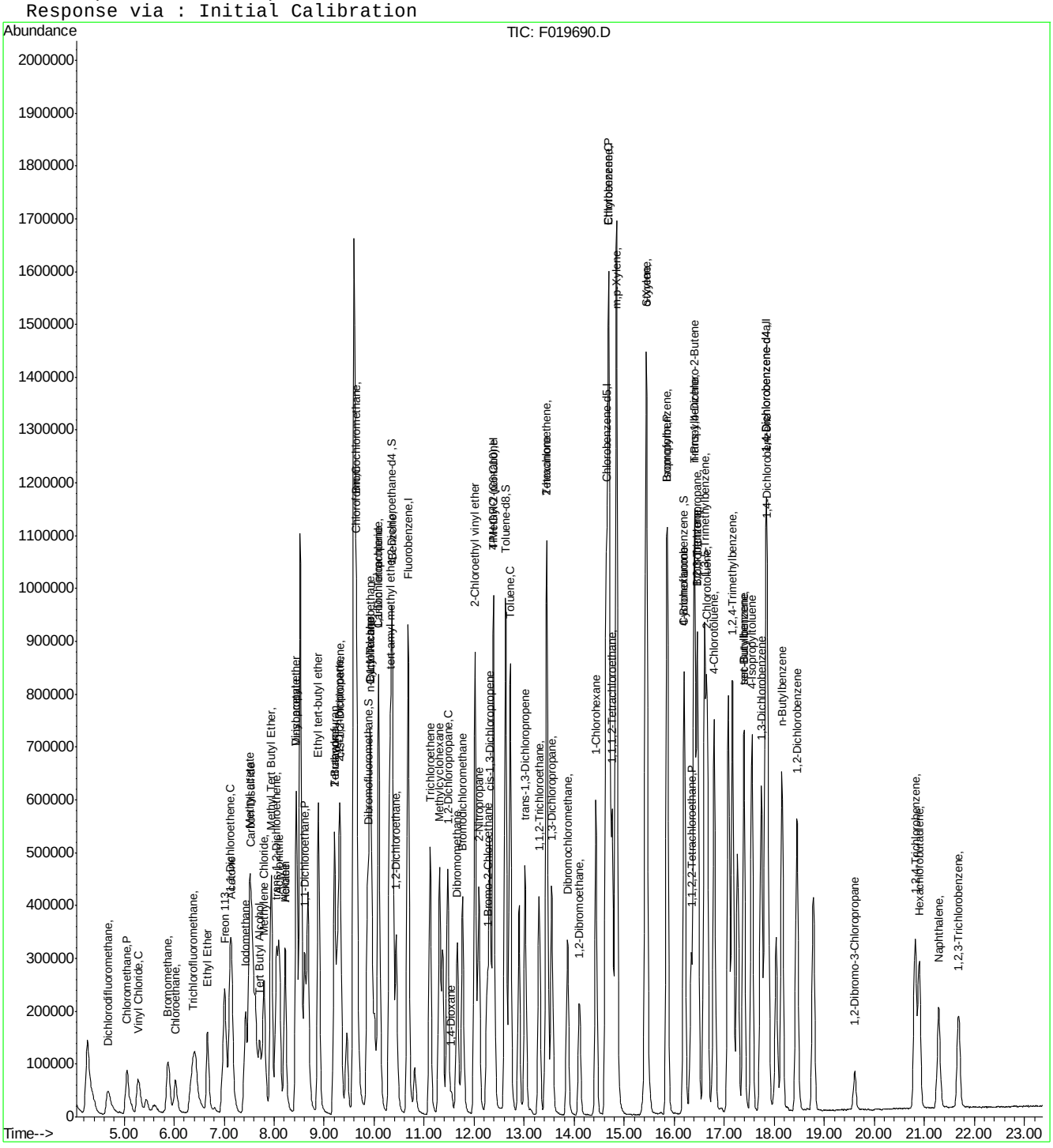
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92)	1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93)	Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94)	Naphthalene	21.29	128	388968	40.05	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	180	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 T39314

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

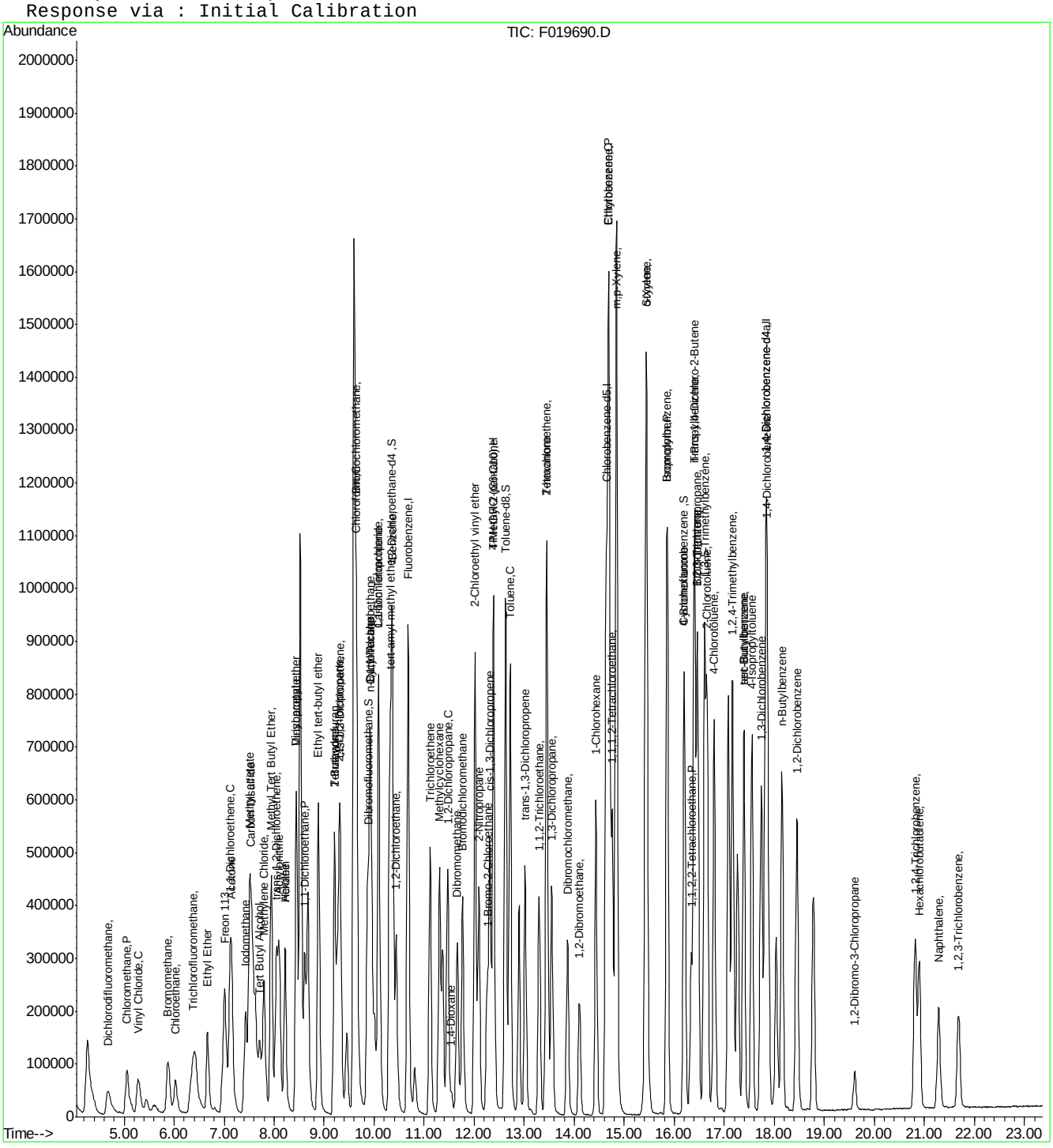
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92) 1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93) Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94) Naphthalene	21.29	128	388968	40.05	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	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
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 T39314

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

Quantitation Report (QT Reviewed)

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

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

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

System Monitoring Compounds

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

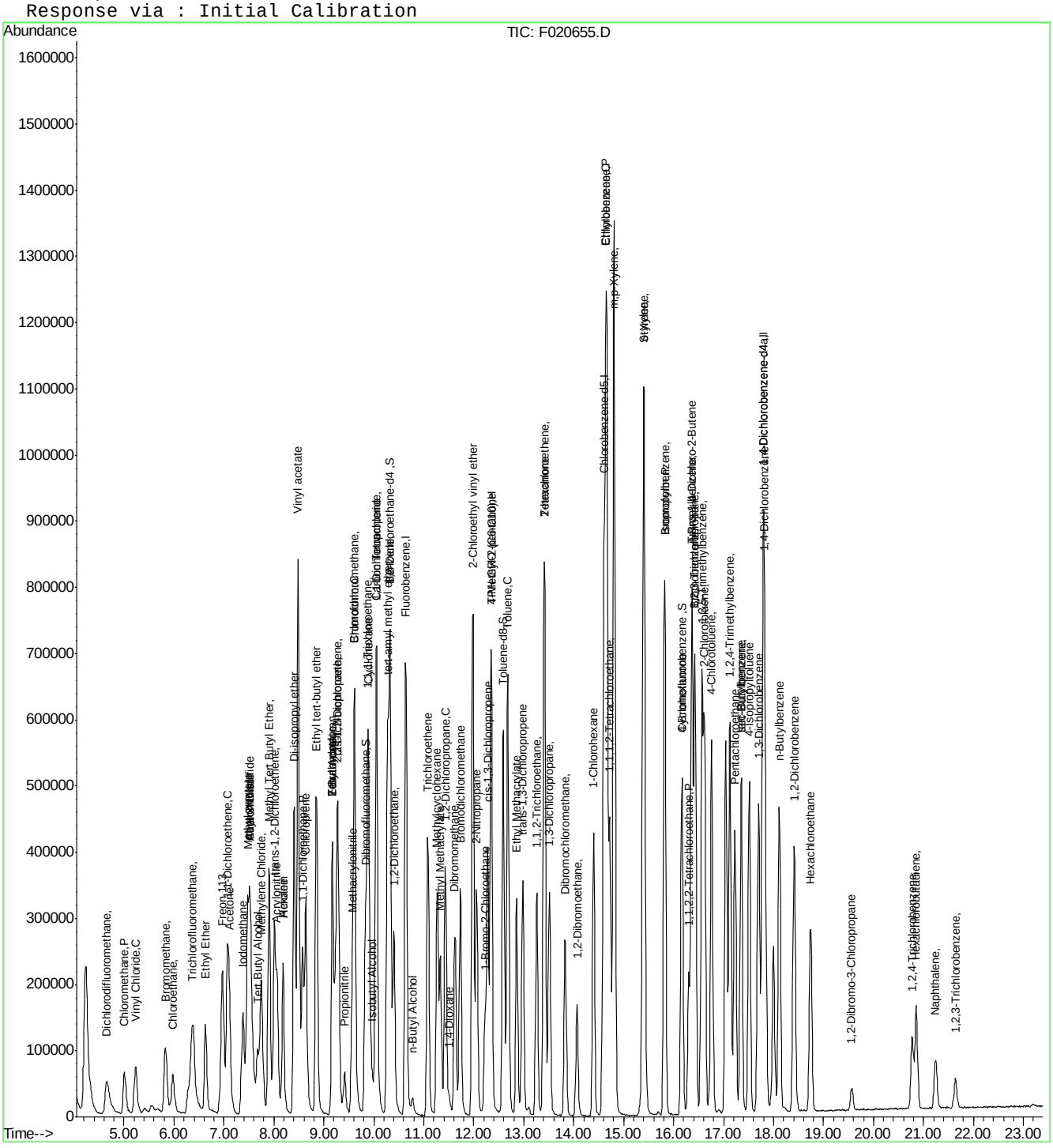
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	647902	35.12	ug/L	98
92)	Pentachloroethane	17.23	167	178656	38.09	uL/L	99
93)	sec-Butylbenzene	17.36	105	698551	34.33	ug/L	99
94)	1,3-Dichlorobenzene	17.70	146	412825	36.35	ug/L	98
95)	4-Isopropyltoluene	17.51	119	559614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

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

Quantitation Report (QT Reviewed)

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

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



ACCUTEST Laboratories T39314

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	
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		1K	6				
BDE	96	1 -3MS				↓	16	1	7			12.5µ/40ml	

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

* New ICAL run as both ccal's failed.

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

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

Analyst Signature:

Standard Data

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

See pg#1

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

See pg#1

Solvent ID #:

Solvent: Methanol

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

Signature of Supervisor:

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

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

P.2

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

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

Analyst Signature: [illegible]

Standard Data

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

See pg#1

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

See pg#1

Solvent ID #:

Solvent: Methanol

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

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0197 17	T37375-1	5ml	8260	W	<2	35	1x	1	N/A			AL
	18	-3					36		3				
	19	-5					37		5				
	20	T37007-1					38		6				
BDE	21	-1MS					39		7			12.5 ml/40 ml	
	22	-1MSD					39		7			↓	
BE	23	Blk				N/A	40	N/A	N/A			clean up Blk	
	24	T37007-2				<2	41	1x	6				
	25	T36917-1					42	1	5				
	26	T37007-3					43	5x	6			10 ml/50 ml Pu	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

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

P.3

Form: MS015

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: [illegible]

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 Fl	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

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

P.3

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7099
Batch ID: VF3596

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

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard 3851
C	8260 Standard 3864, 3855, 3862, 3863
D	8260 BS/MS/MSD 3855, 3866, 3857, 3864
E	Surrogate Standard 3852
F	GRO Marker N/A
G	GRO Standard N/A
H	GRO LCS N/A

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

Solvent ID #: RV090720

Solvent: Methanol

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

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020653	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 µl/40ml/ Avg SE	[illegible]
BC	54	CC3547-20										10 µl/50ml/ High Rec for Benzene	
	55	↓ -40										20 µl/50ml FV	
BDE	56	BS										12.5 µl/40ml	
BE	57	Blk										cleanup Blk	
	58	MB											
	59	T39314-7				<2		K	1				
	60	T39423-8							1				
	61	T39314-2							7				
BDE	62	-2MS							10			12.5 µl/40ml	
	63	-2MSd							↓			↓	
	64	Blk				N/A		N/A	N/A			cleanup Blk	
	65	T39314-1				<2		K	4				
	66	3							4				
	67	4							4				
	68	5							4				
	69	6							4				
	70	T39423-1							6				
	71	-2							6				
	72	-3					19		6				

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

1.66

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 66
Batch ID:

Date: 10/9/09 – 10/10/09

Analyst Signature:

Standard Data

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

See pg # 66

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

See pg # 66

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

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BFB	F020673	T39423-4	5ml	8260	W	<2	20	1x	6	N/A	Y		AW
	74	-5							6				
	75	-6							6				
	76	-7							6				
	77	Blk				N/A		N/A	N/A			cleanup Blk	
	78						25						

AW 10/9/09

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

Form: MS015

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T39314
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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6

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	
83-32-9	Acenaphthene	ND	5.0	1.6	ug/l	
86-73-7	Fluorene	ND	5.0	1.3	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.97	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: T39314
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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6

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: T39314
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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6

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
83-32-9	Acenaphthene	50	39.3	79	39.5	79	1	41-110/30
86-73-7	Fluorene	50	41.3	83	41.2	82	0	47-99/30
91-20-3	Naphthalene	50	30.0	60	30.2	60	1	37-89/30
85-01-8	Phenanthrene	50	43.1	86	43.5	87	1	59-103/30

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: T39314
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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6

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: T39314
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

T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6

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
83-32-9	Acenaphthene	5.0 U		100	65.6	66	66.9	67	2	41-110/21
86-73-7	Fluorene	5.0 U		100	67.0	67	70.3	70	5	47-99/22
91-20-3	Naphthalene	5.0 U		100	60.6	61	62.5	63	3	37-89/24
85-01-8	Phenanthrene	5.0 U		100	79.2	79	80.2	80	1	59-103/19

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: T39314
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
ZZZZZZ	H35495.D	10/20/09	15:56	05:33	(unrelated sample)
ZZZZZZ	H35496.D	10/20/09	16:24	06:01	(unrelated sample)
ZZZZZZ	H35497.D	10/20/09	16:46	06:23	(unrelated sample)
ZZZZZZ	H35498.D	10/20/09	17:17	06:54	(unrelated sample)
ZZZZZZ	H35499.D	10/20/09	17:48	07:25	(unrelated sample)
ZZZZZZ	H35500.D	10/20/09	18:17	07:54	(unrelated sample)
ZZZZZZ	H35502.D	10/20/09	19:07	08:44	(unrelated sample)
ZZZZZZ	H35503.D	10/20/09	19:39	09:16	(unrelated sample)
T39314-1	H35504.D	10/20/09	20:08	09:45	MW1:1009

Instrument Performance Check (DFTPP)

Job Number: T39314
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

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	MW29:1009
T39314-6	H35508.D	10/20/09	22:03	11:40	MW35:1009

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-DFTPP
Lab File ID: H35512.D
Instrument ID: GCMSH
Injection Date: 10/21/09
Injection Time: 10:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27424	43.7		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	42760	68.1		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	34749	55.3		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	62797	100.0		Pass
199	5.0 - 9.0% of mass 198	4472	7.1		Pass
275	10.0 - 30.0% of mass 198	10382	16.5		Pass
365	1.0 - 100.0% of mass 198	872	1.4		Pass
441	Present, but less than mass 443	4082	6.5	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	25149	40.0		Pass
443	17.0 - 23.0% of mass 442	5127	8.2	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1918-ICC1918	H35513.D	10/21/09	11:02	00:14	Initial cal 2.5
EH1918-IC1918	H35514.D	10/21/09	11:31	00:43	Initial cal 1
EH1918-IC1918	H35515.D	10/21/09	12:01	01:13	Initial cal 0.1
EH1918-IC1918	H35516.D	10/21/09	12:32	01:44	Initial cal 0.2
EH1918-IC1918	H35517.D	10/21/09	12:58	02:10	Initial cal 5
EH1918-IC1918	H35518.D	10/21/09	13:29	02:41	Initial cal 10
EH1918-ICV1918	H35519.D	10/21/09	13:57	03:09	Initial cal verification 2.5
OP13270-MB	H35520.D	10/21/09	14:31	03:43	Method Blank
OP13270-BS	H35521.D	10/21/09	14:54	04:06	Blank Spike
OP13270-BSD	H35522.D	10/21/09	15:25	04:37	Blank Spike Duplicate
ZZZZZZ	H35523.D	10/21/09	15:54	05:06	(unrelated sample)
T39314-1	H35524.D	10/21/09	16:23	05:35	MW1:1009
T39314-3	H35525.D	10/21/09	16:55	06:07	MW30:1009
T39314-4	H35526.D	10/21/09	17:20	06:32	MW2:1009
T39314-6	H35527.D	10/21/09	17:51	07:03	MW35:1009
T39314-3	H35528.D	10/21/09	18:14	07:26	MW30:1009

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-DFTPP
Lab File ID: H35579.D
Instrument ID: GCMSH
Injection Date: 10/23/09
Injection Time: 10:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	37381	37.9		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	59141	59.9		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	52288	53.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	98720	100.0		Pass
199	5.0 - 9.0% of mass 198	7541	7.6		Pass
275	10.0 - 30.0% of mass 198	16213	16.4		Pass
365	1.0 - 100.0% of mass 198	1790	1.8		Pass
441	Present, but less than mass 443	6753	6.8	(80.6) [b]	Pass
442	40.0 - 100.0% of mass 198	43176	43.7		Pass
443	17.0 - 23.0% of mass 442	8380	8.5	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1920-ICC1920	H35580.D	10/23/09	11:13	00:21	Initial cal 2.5
EH1920-IC1920	H35581.D	10/23/09	11:39	00:47	Initial cal 1
EH1920-IC1920	H35582.D	10/23/09	12:08	01:16	Initial cal 0.1
EH1920-IC1920	H35583.D	10/23/09	12:40	01:48	Initial cal 0.2
EH1920-IC1920	H35584.D	10/23/09	13:07	02:15	Initial cal 5
EH1920-IC1920	H35585.D	10/23/09	13:31	02:39	Initial cal 10
EH1920-ICV1920	H35586.D	10/23/09	14:13	03:21	Initial cal verification 2.5
ZZZZZZ	H35588.D	10/23/09	15:11	04:19	(unrelated sample)
ZZZZZZ	H35589.D	10/23/09	15:36	04:44	(unrelated sample)
ZZZZZZ	H35590.D	10/23/09	16:05	05:13	(unrelated sample)
ZZZZZZ	H35591.D	10/23/09	16:34	05:42	(unrelated sample)
ZZZZZZ	H35592.D	10/23/09	17:03	06:11	(unrelated sample)
ZZZZZZ	H35593.D	10/23/09	17:31	06:39	(unrelated sample)
ZZZZZZ	H35594.D	10/23/09	17:56	07:04	(unrelated sample)
ZZZZZZ	H35595.D	10/23/09	18:28	07:36	(unrelated sample)
ZZZZZZ	H35596.D	10/23/09	18:57	08:05	(unrelated sample)
ZZZZZZ	H35598.D	10/23/09	19:54	09:02	(unrelated sample)
ZZZZZZ	H35599.D	10/23/09	20:23	09:31	(unrelated sample)
ZZZZZZ	H35600.D	10/23/09	20:45	09:53	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-DFTPP
Lab File ID: H35579.D
Instrument ID: GCMSH
Injection Date: 10/23/09
Injection Time: 10:52

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H35601.D	10/23/09	21:13	10:21	(unrelated sample)
ZZZZZZ	H35602.D	10/23/09	21:42	10:50	(unrelated sample)
ZZZZZZ	H35603.D	10/23/09	22:11	11:19	(unrelated sample)
T39314-5	H35604.D	10/23/09	22:40	11:48	TW2:1009

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ602-DFTPP
Lab File ID: J13032.D
Instrument ID: GCMSJ
Injection Date: 09/05/09
Injection Time: 11:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	291136	41.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	304021	43.4		Pass
70	Less than 2.0% of mass 69	1668	0.24	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	337515	48.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	700800	100.0		Pass
199	5.0 - 9.0% of mass 198	47371	6.8		Pass
275	10.0 - 30.0% of mass 198	197269	28.1		Pass
365	1.0 - 100.0% of mass 198	27963	4.0		Pass
441	Present, but less than mass 443	91285	13.0	(79.1) [b]	Pass
442	40.0 - 100.0% of mass 198	588032	83.9		Pass
443	17.0 - 23.0% of mass 442	115421	16.5	(19.6) [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
EJ602-CC597	J13033.D	09/05/09	11:38	00:13	Continuing cal 50
EJ602-IC602	J13034.D	09/05/09	12:10	00:45	Initial cal 75
EJ602-ICC602	J13035.D	09/05/09	12:38	01:13	Initial cal 50
EJ602-IC602	J13036.D	09/05/09	13:07	01:42	Initial cal 5
EJ602-IC602	J13037.D	09/05/09	13:36	02:11	Initial cal 10
EJ602-IC602	J13038.D	09/05/09	14:05	02:40	Initial cal 25
EJ602-IC602	J13039.D	09/05/09	14:34	03:09	Initial cal 100
EJ602-ICV602	J13041.D	09/05/09	15:36	04:11	Initial cal verification 50
OP12928-MB	J13042.D	09/05/09	16:05	04:40	Method Blank
T36823-1	J13043.D	09/05/09	16:36	05:11	(used for QC only; not part of job T39314)
OP12931-MB	J13044.D	09/05/09	17:05	05:40	Method Blank
OP12928-MS	J13045.D	09/05/09	17:35	06:10	Matrix Spike
OP12928-MSD	J13046.D	09/05/09	18:04	06:39	Matrix Spike Duplicate
OP12932-MB	J13047.D	09/05/09	18:33	07:08	Method Blank
OP12932-BS	J13048.D	09/05/09	19:02	07:37	Blank Spike
T36825-1	J13049.D	09/05/09	19:31	08:06	(used for QC only; not part of job T39314)
OP12932-MS	J13050.D	09/05/09	20:00	08:35	Matrix Spike
OP12932-MSD	J13051.D	09/05/09	20:28	09:03	Matrix Spike Duplicate
ZZZZZZ	J13052.D	09/05/09	20:58	09:33	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ602-DFTPP
Lab File ID: J13032.D
Instrument ID: GCMSJ
Injection Date: 09/05/09
Injection Time: 11:25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J13053.D	09/05/09	21:26	10:01	(unrelated sample)
ZZZZZZ	J13055.D	09/05/09	22:24	10:59	(unrelated sample)
ZZZZZZ	J13057.D	09/06/09	09:11	21:46	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39314
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: T39314
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: T39314
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
ZZZZZZ	J13706.D	10/08/09	20:23	01:53	(unrelated sample)
ZZZZZZ	J13707.D	10/08/09	20:54	02:24	(unrelated sample)
ZZZZZZ	J13708.D	10/08/09	21:24	02:54	(unrelated sample)
ZZZZZZ	J13709.D	10/08/09	21:55	03:25	(unrelated sample)
ZZZZZZ	J13710.D	10/08/09	22:25	03:55	(unrelated sample)
ZZZZZZ	J13711.D	10/08/09	22:56	04:26	(unrelated sample)
T39314-2	J13712.D	10/08/09	23:26	04:56	MW29:1009
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
T39314-1	J13715.D	10/09/09	00:57	06:27	MW1:1009
T39314-4	J13717.D	10/09/09	01:58	07:28	MW2:1009
T39314-6	J13718.D	10/09/09	02:28	07:58	MW35:1009
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)
T39314-5	J13722.D	10/09/09	04:28	09:58	TW2:1009
ZZZZZZ	J13723.D	10/09/09	04:58	10:28	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ631-DFTPP
Lab File ID: J13725.D
Instrument ID: GCMSJ
Injection Date: 10/09/09
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	163051	50.4		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	157696	48.8		Pass
70	Less than 2.0% of mass 69	898	0.28	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	169259	52.3		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	323435	100.0		Pass
199	5.0 - 9.0% of mass 198	21683	6.7		Pass
275	10.0 - 30.0% of mass 198	90573	28.0		Pass
365	1.0 - 100.0% of mass 198	14570	4.5		Pass
441	Present, but less than mass 443	43453	13.4	(82.7) [b]	Pass
442	40.0 - 100.0% of mass 198	274475	84.9		Pass
443	17.0 - 23.0% of mass 442	52571	16.3	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ631-CC615	J13726.D	10/09/09	09:27	00:14	Continuing cal 50
EJ631-CC629	J13727.D	10/09/09	09:57	00:44	Continuing cal 50
EJ631-CC602	J13728.D	10/09/09	10:27	01:14	Continuing cal 50
OP13214-MB	J13731.D	10/09/09	12:31	03:18	Method Blank
OP13214-BS	J13732.D	10/09/09	13:02	03:49	Blank Spike
OP13214-BSD	J13733.D	10/09/09	13:31	04:18	Blank Spike Duplicate
T39314-3	J13734.D	10/09/09	14:01	04:48	MW30:1009
T39417-2	J13735.D	10/09/09	14:35	05:22	(used for QC only; not part of job T39314)
OP13214-MS	J13736.D	10/09/09	15:05	05:52	Matrix Spike
OP13214-MSD	J13737.D	10/09/09	15:34	06:21	Matrix Spike Duplicate
ZZZZZZ	J13738.D	10/09/09	16:04	06:51	(unrelated sample)
ZZZZZZ	J13739.D	10/09/09	16:33	07:20	(unrelated sample)
ZZZZZZ	J13740.D	10/09/09	17:02	07:49	(unrelated sample)
ZZZZZZ	J13741.D	10/09/09	17:31	08:18	(unrelated sample)
ZZZZZZ	J13742.D	10/09/09	18:00	08:47	(unrelated sample)
ZZZZZZ	J13743.D	10/09/09	18:30	09:17	(unrelated sample)
ZZZZZZ	J13744.D	10/09/09	18:59	09:46	(unrelated sample)
T39314-5	J13746.D	10/09/09	19:57	10:44	TW2:1009
ZZZZZZ	J13747.D	10/09/09	20:26	11:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ631-DFTPP
Lab File ID: J13725.D
Instrument ID: GCMSJ
Injection Date: 10/09/09
Injection Time: 09:13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J13748.D	10/09/09	20:56	11:43	(unrelated sample)
ZZZZZZ	J13750.D	10/09/09	21:55	12:42	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: T39314
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
ZZZZZZ	62204	5.65	50791	7.56	45907	9.57	56374	11.09	43522	13.88	12333	16.33
ZZZZZZ	66792	5.65	60616	7.56	51281	9.57	64351	11.09	51504	13.88	15221	16.33
ZZZZZZ	70954	5.65	61377	7.56	51998	9.57	66005	11.09	52907	13.89	15926	16.33
ZZZZZZ	78673	5.65	67314	7.56	60817	9.57	74355	11.09	59778	13.89	16528	16.33
ZZZZZZ	74167	5.65	66862	7.56	57524	9.57	71024	11.09	50466	13.88	13737	16.33
ZZZZZZ	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
T39314-1 [d]	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
T39314-6 [d]	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.
(d) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EH1918-ICC1918 **Injection Date:** 10/21/09
Lab File ID: H35513.D **Injection Time:** 11:02
Instrument ID: GCMSH **Method:** SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	74952	5.65	71607	7.56	63482	9.57	78072	11.09	38772	13.89	6173	16.35
Upper Limit [a]	149904	6.15	143214	8.06	126964	10.07	156144	11.59	77544	14.39	12346	16.85
Lower Limit [b]	37476	5.15	35804	7.06	31741	9.07	39036	10.59	19386	13.39	3087	15.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13270-MB	69791	5.65	64084	7.56	39063	9.57	59399	11.09	35168	13.89	7436	16.35
OP13270-BS [c]	79921	5.65	84780	7.56	42809	9.57	78803	11.09	43314	13.89	7925	16.35
OP13270-BSD [c]	80116	5.65	78986	7.56	44110	9.57	74813	11.09	46659	13.88	9333	16.35
ZZZZZZ	71622	5.65	63559	7.56	35610	9.57	65426	11.09	33990	13.88	6313	16.35
T39314-1	86994	5.65	77445	7.56	47381	9.57	75488	11.09	31271	13.88	4505	16.37
T39314-3	89975	5.65	92876	7.56	41661	9.57	92673	11.09	40270	13.88	7494	16.35
T39314-4	80316	5.65	81679	7.56	49031	9.57	73911	11.09	43847	13.89	8494	16.35
T39314-6	66487	5.65	57241	7.56	34820	9.57	61393	11.09	23898	13.90	5725	16.37
T39314-3	65206	5.65	69226	7.56	40925	9.57	65060	11.09	32132	13.89	6581	16.35

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Semivolatile Internal Standard Area Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EH1920-ICC1920 **Injection Date:** 10/23/09
Lab File ID: H35580.D **Injection Time:** 11:13
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	99258	5.63	92355	7.54	65780	9.57	81086	11.09	9097	13.90	4085	16.38
Upper Limit [a]	198516	6.13	184710	8.04	131560	10.07	162172	11.59	18194	14.40	8170	16.88
Lower Limit [b]	49629	5.13	46178	7.04	32890	9.07	40543	10.59	4549	13.40	2043	15.88

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
ZZZZZZ	89429	5.63	88061	7.54	51764	9.57	86210	11.09	10836	13.90	3684	16.37
ZZZZZZ	102446	5.63	80744	7.54	71204	9.57	90555	11.09	13944	13.90	4004	16.38
ZZZZZZ	98217	5.63	91523	7.54	59842	9.57	103625	11.09	19954*	13.90	4810	16.38
ZZZZZZ	111903	5.63	359477*	7.74	73219	9.60	61616	11.11	8642	13.90	4297	16.37
ZZZZZZ	96814	5.63	88464	7.54	67931	9.57	119443	11.09	26997*	13.89	6004	16.37
ZZZZZZ	88107	5.63	69180	7.57	72035	9.57	92496	11.09	14676	13.90	3601	16.40
ZZZZZZ	101956	5.63	375050*	7.69	36621	9.57	64740	11.09	6988	13.90	4397	16.37
ZZZZZZ	83199	5.68	94813	7.60	35438	9.57	90670	11.09	9377	13.90	3580	16.38
ZZZZZZ	88199	5.66	99633	7.60	68056	9.57	103262	11.09	17887	13.92	4819	16.40
ZZZZZZ	88599	5.66	102950	7.60	62056	9.57	112878	11.09	17503	13.90	4346	16.40
ZZZZZZ	79748	5.63	63825	7.54	60715	9.57	85179	11.09	13657	13.90	4104	16.40
ZZZZZZ	70341	5.63	53261	7.54	57262	9.57	62898	11.09	6337	13.94	3170	16.42
ZZZZZZ	102972	5.63	90701	7.54	77689	9.57	93763	11.09	11572	13.92	3829	16.42
ZZZZZZ	86061	5.63	144022	7.57	54265	9.60	41302	11.11	6439	13.89	3852	16.37
ZZZZZZ	73468	5.63	97389	7.60	46390	9.60	58193	11.09	6915	13.90	3557	16.37
T39314-5	83538	5.63	628383*	7.78	29743*	9.60	66271	11.09	7246	13.90	3708	16.38

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

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

Semivolatile Internal Standard Area Summary

Job Number: T39314
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
ZZZZZZ	601226	4.73	2083762	5.94	1085879	8.41	1489657	11.20	748401	16.71	499290	19.52
ZZZZZZ	547976	4.73	1921917	5.94	1028497	8.41	1467061	11.19	948712	16.71	667040	19.51
ZZZZZZ	572371	4.73	2001861	5.93	1061438	8.41	1485411	11.19	922290	16.71	626911	19.52
ZZZZZZ	589474	4.73	2049985	5.94	1076009	8.41	1498592	11.19	807713	16.71	553236	19.51
ZZZZZZ	704576	4.73	2519638	5.94	1384023	8.41	2039115	11.20	1461726	16.72	1009848	19.52
ZZZZZZ	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
T39314-1	595307	4.73	2063212	5.94	1061910	8.41	1433664	11.19	739145	16.71	518959	19.52
T39314-4	565530	4.73	1984320	5.94	1031887	8.41	1390208	11.19	890309	16.71	600844	19.52
T39314-6	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
T39314-5	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 Internal Standard Area Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EJ631-CC615	**Injection Date:**	10/09/09
Lab File ID:	J13726.D	**Injection Time:**	09:27
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	443966	4.73	1544818	5.95	866250	8.43	1249051	11.21	1159703	16.74	653149	19.54
Upper Limit [a]	887932	5.23	3089636	6.45	1732500	8.93	2498102	11.71	2319406	17.24	1306298	20.04
Lower Limit [b]	221983	4.23	772409	5.45	433125	7.93	624526	10.71	579852	16.24	326575	19.04

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
OP13214-MB	534816	4.73	1857751	5.93	934287	8.41	1165619	11.19	575414*	16.71	396993	19.51
OP13214-BS	542859	4.73	2060963	5.94	940919	8.41	1221476	11.19	882129	16.72	511954	19.52
OP13214-BSD	505251	4.73	1947823	5.94	901570	8.41	1191805	11.19	851884	16.72	473719	19.52
T39314-3	558998	4.72	1932902	5.93	942505	8.41	1133071	11.19	557189*	16.70	378654	19.51
T39417-2	560339	4.73	1979462	5.93	1015140	8.41	1212271	11.19	710926	16.71	476003	19.51
OP13214-MS [c]	605154	4.73	2138134	5.93	1084809	8.41	1294987	11.19	831006	16.72	531012	19.51
OP13214-MSD [d]	619699	4.73	2148401	5.94	1052083	8.41	1182750	11.19	662393	16.71	400084	19.51
ZZZZZZ	603658	4.72	2132060	5.93	1069183	8.41	1302032	11.19	816405	16.71	499054	19.51
ZZZZZZ	667951	4.73	2357037	5.93	1305894	8.41	1784109	11.19	938837	16.71	450487	19.51
ZZZZZZ	487326	4.72	1741479	5.93	904426	8.40	1183557	11.18	637063	16.71	358335	19.51
ZZZZZZ	483726	4.72	1731859	5.93	907831	8.40	1172947	11.18	736003	16.71	465255	19.51
ZZZZZZ	499616	4.72	1731507	5.93	905489	8.40	1120641	11.18	651365	16.70	353195	19.51
ZZZZZZ	570817	4.72	2010581	5.93	1001479	8.40	1229629	11.18	654424	16.70	436589	19.51
ZZZZZZ	546861	4.72	1924056	5.93	935171	8.40	1086282	11.18	542583*	16.70	344550	19.50
T39314-5	500905	4.72	1438190	5.98	979413	8.42	1348883	11.20	873342	16.72	422456	19.51
ZZZZZZ	505388	4.72	2054945	5.95	971136	8.43	1390601	11.22	567701*	16.74	260349*	19.53
ZZZZZZ	569879	4.72	2028961	5.96	992096	8.42	1390154	11.20	671400	16.74	372010	19.52
ZZZZZZ	618280	4.76	1979262	5.93	975991	8.39	996765	11.18	535214*	16.70	144744*	19.50

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) Extracted for base-neutral compounds only.
(d) Extracted for base neutral compounds only.

Semivolatile Surrogate Recovery Summary

Job Number: T39314
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
T39314-1	J13715.D	47.0	32.0	74.0	70.0	63.0	114.0
T39314-2	J13712.D	35.0	23.0	53.0	49.0	42.0	90.0
T39314-3	J13734.D	35.0	28.0	83.0	48.0	44.0	110.0
T39314-4	J13717.D	62.0	44.0	93.0	88.0	82.0	107.0
T39314-5	J13746.D	45.0	41.0	72.0	106.0	60.0	81.0
T39314-5	J13722.D	42.0	31.0	55.0	65.0	120.0* [a]	85.0
T39314-6	J13718.D	66.0	47.0	93.0	93.0	83.0	107.0
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%

(a) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: T39314
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
T39314-1	H35504.D	71.0 [a]	79.0 [a]	125.0 [a]
T39314-1	H35524.D	71.0 [a]	90.0 [a]	180.0* [b]
T39314-2	H35505.D	68.0 [a]	86.0 [a]	119.0 [a]
T39314-3	H35528.D	41.0 [a]	52.0 [a]	114.0 [a]
T39314-3	H35525.D	32.0 [a]	56.0 [a]	109.0 [a]
T39314-4	H35526.D	73.0 [a]	94.0 [a]	104.0 [a]
T39314-5	H35604.D	24.0 [a]	92.0 [a]	111.0 [a]
T39314-6	H35527.D	105.0 [a]	130.0 [a]	176.0* [c]
T39314-6	H35508.D	89.0 [a]	111.0 [a]	141.0 [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.
(b) Recovery was adjusted for 10x spiking.Biased high,due to matrix interference.
(c) Recovery was adjusted for 10x spiking.Outside control limits due to dilution.

Initial Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1917-ICC1917
Lab FileID: H35490.D

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                        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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1917-ICC1917
Lab FileID: H35490.D

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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: T39314
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: T39314
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: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1918-ICC1918
Lab FileID: H35513.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Wed Oct 21 14:15:44 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35515.D    5   =H35517.D    1   =H35514.D    2.5 =H35513.D
 0.2 =H35516.D    10  =H35518.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                          0.000  -1.00
 3)I N-Nitroso-di-n-pr                                          0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.156 0.224 0.199 0.219 0.085 0.146       0.172  30.96
            ---- Quadratic regression ----  Coefficient =  0.9959
              Response Ratio = -0.06229 + 0.29588 *A + -0.01152 *A^2

 6)T Naphthalene       1.313 0.776 1.134 0.967 1.151 0.659       1.000  24.73
            ---- Quadratic regression ----  Coefficient =  0.9975
              Response Ratio = 0.03007 + 0.92245 *A + -0.11112 *A^2

 7)  2-Methylnaphthale 0.311 1.401 1.148 1.474 0.458 1.200       0.999  49.36
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.06428 + 1.66487 *A + -0.17518 *A^2

 8)  1-Methylnaphthale 1.366 1.174 1.913 1.433 1.038 0.960       1.314  26.30
            ---- Quadratic regression ----  Coefficient =  0.9957
              Response Ratio = 0.03314 + 1.44482 *A + -0.20086 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  2.510 3.482 2.577 2.579 2.054 2.967       2.695  17.92
            ---- Quadratic regression ----  Coefficient =  0.9928
              Response Ratio = -0.83418 + 3.65215 *A + -0.04769 *A^2

11)T Acenaphthylene    2.543 2.104 1.807 2.203 2.349 2.482       2.248  12.08
12)T Acenaphthene      2.127 2.547 2.253 2.411 1.945 2.438       2.287   9.78
13)  Dibenzofuran      2.470 1.592 2.195 1.346 2.133 1.539       1.879  23.75
            ---- Quadratic regression ----  Coefficient =  0.9962
              Response Ratio = 0.04899 + 1.48334 *A + 0.01581 *A^2

14)T Fluorene          1.073 0.958 1.145 0.869 1.250 0.981       1.046  13.21

15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.068 0.159 0.136 0.160 0.117 0.142       0.130  26.33
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.04921 + 0.17858 *A + -0.00139 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      2.078 2.030 1.763 1.968 1.615 2.086       1.923   9.98
19)T Anthracene        2.284 1.908 1.979 2.053 1.921 1.807       1.992   8.27
20)T Fluoranthene      1.738 1.712 1.846 1.869 1.396 1.677       1.706   9.95

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

7.7.3

7

Initial Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-ICC1918
Lab FileID: H35513.D

```
22)T Pyrene            5.393 3.002 3.463 3.399 3.550 2.835       3.607  25.47
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = 0.06023 + 3.23251 *A + -0.17071 *A^2

23)S Terphenyl-d14     0.883 0.831 0.784 0.729 0.678 0.650       0.759  11.84
24)T Benzo[a]anthracen 1.215 1.386 1.438 1.294 0.961 1.495       1.298  14.89
25)T Chrysene          1.943 1.589 1.442 1.737 1.322 1.560       1.599  13.72

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.856 1.752 0.954 1.789 0.626 2.400       1.396  49.29
            ---- Quadratic regression ----  Coefficient =  0.9984
              Response Ratio = -0.02291 + 1.28253 *A + 0.44842 *A^2

28)T Benzo[k]fluoranth 1.704 2.915 2.173 2.983 1.505 2.591       2.312  26.89
            ---- Quadratic regression ----  Coefficient =  0.9990
              Response Ratio = -0.11840 + 3.31669 *A + -0.26976 *A^2

29)T Benzo[a]pyrene    0.848 1.678 1.392 1.542 0.603 1.721       1.297  35.78
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.04852 + 1.64566 *A + 0.03863 *A^2

30)T Indeno[1,2,3-cd]p 0.435 0.680 0.757 0.562 0.537 0.630       0.600  18.95
            ---- Quadratic regression ----  Coefficient =  0.9970
              Response Ratio = -0.00795 + 0.68227 *A + -0.01877 *A^2

31)T Dibenz[a,h]anthra 0.368 0.468 0.485 0.353 0.184 0.440       0.383  29.04
            ---- Quadratic regression ----  Coefficient =  0.9954
              Response Ratio = -0.01108 + 0.45630 *A + -0.00408 *A^2

32)T Benzo[g,h,i]peryl 0.465 0.563 0.720 0.493 0.426 0.472       0.523  20.35
            ---- Quadratic regression ----  Coefficient =  0.9958
              Response Ratio = -0.00368 + 0.61454 *A + -0.05592 *A^2

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

          H10219SP.M        Wed Oct 21 14:38:54 2009
```

7.7.3

7

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1918-ICV1918
Lab FileID: H35519.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D            Vial: 8
Acq On    : 21 Oct 2009   1:57 pm                   Operator: sheilac
Sample    : icv1918-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1918,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Wed Oct 21 14:43:08 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	152	0.00	5.65
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	183	0.00	7.56
5	S	Nitrobenzene-d5		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6	T	Naphthalene	2.500	2.490	0.4	170	0.00	7.59
7		2-Methylnaphthalene	2.500	2.400	4.0	173	0.00	8.45
8		1-Methylnaphthalene	2.500	2.427	2.9	171	0.00	8.56
		----------	AvgRF	CCRF	%Dev		----------	
9	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
11	T	Acenaphthylene	2.248	2.139	4.8	98	0.03	9.43
12	T	Acenaphthene	2.287	2.508	-9.7	105	0.00	9.60
13		Dibenzofuran	1.879	2.245	-19.5	168	0.00	9.81
14	T	Fluorene	1.046	1.289	-23.2	149	0.00	10.16
15	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.923	1.897	1.4	123	0.00	11.11
19	T	Anthracene	1.992	2.235	-12.2	139	0.00	11.17
20	T	Fluoranthene	1.706	1.878	-10.1	128	0.00	12.29
21	I	Chrysene-d12	1.000	1.000	0.0	141	0.00	13.89
		----------	Amount	Calc.	%Drift		----------	
22	T	Pyrene	2.500	2.534	-1.4	135	0.02	12.53
		----------	AvgRF	CCRF	%Dev		----------	
23	S	Terphenyl-d14		----------NA----------				
24	T	Benzo[a]anthracene	1.298	1.376	-6.0	150	0.00	13.87
25	T	Chrysene	1.599	1.706	-6.7	138	0.00	13.92
26	I	Perylene-d12	1.000	1.000	0.0	193	0.00	16.35
		----------	Amount	Calc.	%Drift		----------	
27	T	Benzo[b]fluoranthene	2.500	2.761	-10.4	186	0.02	15.62

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-ICV1918
Lab FileID: H35519.D

28	T	Benzo[k]fluoranthene	2.500	2.417	3.3	185	0.00	15.66
29	T	Benzo[a]pyrene	2.500	2.456	1.8	196	0.00	16.24
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.607	-4.3	236	-0.02	18.68
31	T	Dibenz[a,h]anthracene	2.500	2.571	-2.8	246	-0.02	18.68
32	T	Benzo[g,h,i]perylene	2.500	2.610	-4.4	234	-0.02	19.27

H35513.D H10219SP.M Wed Oct 21 14:44:12 2009

Initial Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1920-ICC1920
Lab FileID: H35580.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Fri Oct 23 14:18:42 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35582.D    5   =H35584.D    1   =H35581.D    2.5 =H35580.D
 0.2 =H35583.D    10  =H35585.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   0.042 0.141 0.206 0.175 0.044 0.184       0.132  54.60
            ---- Quadratic regression ----  Coefficient =  0.9930
              Response Ratio = 0.03039 + 0.11977 *A + 0.00487 *A^2

 6)T Naphthalene       1.570 1.114 1.337 1.338 1.493 1.182       1.339  13.03
 7)  2-Methylnaphthale 0.302 1.273 0.758 0.960 0.379 1.309       0.830  51.99
            ---- Quadratic regression ----  Coefficient =  0.9975
              Response Ratio = -0.06583 + 1.17709 *A + 0.06574 *A^2

 8)  1-Methylnaphthale 1.209 1.680 1.496 1.648 1.232 1.663       1.488  14.63

 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  2.109 2.142 2.332 1.879 1.942 2.855       2.210  16.02
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = 0.34256 + 1.41503 *A + 0.11273 *A^2

11)T Acenaphthylene    2.130 2.763 1.704 2.938 2.126 3.170       2.472  22.99
            ---- Quadratic regression ----  Coefficient =  0.9983
              Response Ratio = -0.04641 + 2.54692 *A + 0.25504 *A^2

12)T Acenaphthene      2.303 2.292 2.244 2.276 2.036 2.240       2.232   4.43
13)  Dibenzofuran      2.312 1.317 2.693 1.824 2.223             2.074  25.26
            ---- Quadratic regression ----  Coefficient =  0.9926
              Response Ratio = 0.01863 + 2.46999 *A + -0.94070 *A^2

14)T Fluorene          1.077 0.904 1.267 1.112 1.124 0.865       1.058  14.16

15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.047 0.169 0.125 0.149 0.057 0.146       0.115  44.35
            ---- Quadratic regression ----  Coefficient =  0.9977
              Response Ratio = -0.09013 + 0.18793 *A + -0.00152 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      1.667 1.959 1.579 1.811 1.545 1.921       1.747  10.06
19)T Anthracene        2.209 1.900 2.110 2.114 2.115 1.707       2.026   9.22
20)T Fluoranthene      0.751 0.988 0.673 0.826 0.573 1.066       0.813  23.06
            ---- Quadratic regression ----  Coefficient =  0.9992
              Response Ratio = -0.02785 + 0.88184 *A + 0.07934 *A^2


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

Initial Calibration Summary

Job Number: T39314 **Sample:** EH1920-ICC1920
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** H35580.D
Project: Vertellus-Provo

```
22)T Pyrene            6.492 7.580 6.472 7.477 4.969 6.443       6.572  14.34
23)S Terphenyl-d14     0.652 1.292 0.852 1.095 0.569 1.488       0.991  36.65
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.18129 + 1.09002 *A + 0.03314 *A^2

24)T Benzo[a]anthracen 0.813 0.886 0.611 1.061 0.798 1.334       0.917  27.33
            ---- Quadratic regression ----  Coefficient =  0.9952
              Response Ratio = 0.02531 + 0.58213 *A + 0.29386 *A^2

25)T Chrysene          1.553 2.027 2.263 1.703 1.560 1.661       1.794  16.02
            ---- Quadratic regression ----  Coefficient =  0.9953
              Response Ratio = -0.04084 + 2.22933 *A + -0.21774 *A^2


26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 1.475 1.189 0.707 0.952 1.117 1.093       1.089  23.39
            ---- Quadratic regression ----  Coefficient =  0.9954
              Response Ratio = -0.04386 + 1.18553 *A + -0.02724 *A^2

28)T Benzo[k]fluoranth 1.300 2.430 1.824 2.130 0.664 2.671       1.837  40.73
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.07190 + 2.19710 *A + 0.20235 *A^2

29)T Benzo[a]pyrene    1.344 1.455 1.172 1.329 0.416 1.579       1.216  34.12
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.03199 + 1.34106 *A + 0.10073 *A^2

30)T Indeno[1,2,3-cd]p 0.131 1.010 0.843 0.948 0.259 1.045       0.706  57.19
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.03362 + 1.00065 *A + 0.02322 *A^2

31)T Dibenz[a,h]anthra 0.305 0.680 0.549 0.683 0.097 0.734       0.508  50.00
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01920 + 0.66468 *A + 0.03045 *A^2

32)T Benzo[g,h,i]peryl 0.515 0.881 0.875 0.881 0.232 0.841       0.704  38.59
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.02141 + 0.94561 *A + -0.03858 *A^2

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

          H10239SP.M        Fri Oct 23 14:35:06 2009
```

7.7.5

7

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1920-ICV1920
Lab FileID: H35586.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D            Vial: 8
Acq On    : 23 Oct 2009   2:13 pm                   Operator: sheilac
Sample    : icv1920-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1920,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Fri Oct 23 15:22:10 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	143	0.00	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	131	0.00	7.54
5	S	Nitrobenzene-d5		----------NA----------				
6	T	Naphthalene	1.339	1.494	-11.6	146	0.00	7.57
		----------	Amount	Calc.	%Drift		----------	
7		2-Methylnaphthalene	2.500	2.346	6.2	141	0.00	8.46
		----------	AvgRF	CCRF	%Dev		----------	
8		1-Methylnaphthalene	1.488	1.734	-16.5	138	0.00	8.55
9	I	Acenaphthene-d10	1.000	1.000	0.0	153	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
11	T	Acenaphthylene	2.500	1.974	21.0	106	0.00	9.41
		----------	AvgRF	CCRF	%Dev		----------	
12	T	Acenaphthene	2.232	2.333	-4.5	156	0.00	9.59
		----------	Amount	Calc.	%Drift		----------	
13		Dibenzofuran	2.500	1.987	20.5	136	0.00	9.81
		----------	AvgRF	CCRF	%Dev		----------	
14	T	Fluorene	1.058	0.875	17.3	120	0.00	10.16
15	I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.747	1.837	-5.2	136	0.00	11.11
19	T	Anthracene	2.026	2.065	-1.9	131	0.00	11.17
		----------	Amount	Calc.	%Drift		----------	
20	T	Fluoranthene	2.500	2.374	5.0	136	0.02	12.31
		----------	AvgRF	CCRF	%Dev		----------	
21	I	Chrysene-d12	1.000	1.000	0.0	182	0.00	13.90
22	T	Pyrene	6.572	5.798	11.8	141	0.00	12.53

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-ICV1920
Lab FileID: H35586.D

```
23 S   Terphenyl-d14                        ----------NA----------

           ----------------------- Amount  Calc.    %Drift   -------------
24 T   Benzo[a]anthracene          2.500   3.067    -22.7  193   0.00   13.88
25 T   Chrysene                    2.500   2.275      9.0  198   0.00   13.94


           ----------------------- AvgRF   CCRF      %Dev   --------------
26 I   Perylene-d12                1.000   1.000      0.0  188   0.00   16.38

           ----------------------- Amount  Calc.    %Drift   -------------
27 T   Benzo[b]fluoranthene        2.500   2.336      6.6  202   0.00   15.66
28 T   Benzo[k]fluoranthene        2.500   2.616     -4.6  205   0.00   15.69
29 T   Benzo[a]pyrene              2.500   2.521     -0.8  193   0.00   16.30
30 T   Indeno[1,2,3-cd]pyrene      2.500   2.366      5.4  180   0.02   18.77
31 T   Dibenz[a,h]anthracene       2.500   2.447      2.1  176   0.02   18.77
32 T   Benzo[g,h,i]perylene        2.500   2.178     12.9  165   0.02   19.34
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------


    H35580.D   H10239SP.M       Fri Oct 23 15:24:28 2009
```

7.7.6

7

Initial Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ602-ICC602
Lab FileID: J13035.D

Response Factor Report AGC-VOA-MSJ

Method : C:\msdchem\1\METHODS\ej602c.m (RTE Integrator)
Title :
Last Update : Sat Sep 05 15:31:46 2009
Response via : Initial Calibration

Calibration Files
25 =j13038.D 50 =j13035.D 75 =j13034.D 100 =j13039.D
10.0=j13037.D = =

Compound	25	50	75	100	10.0	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------						
2) bis(Chloromethyl)						0.000	-1.00
3) 1,4-Dioxane						0.000	-1.00
4) 2-Picoline						0.000	-1.00
5) n-Nitrosodimethyl						0.000	-1.00
6) Pyridine						0.000	-1.00
7) Furfural						0.000	-1.00
8)S 2-Fluorophenol (S	1.303	1.267	1.364	1.144	1.266	1.269	6.33
9)S Phenol-d5 (SURR)	1.547	1.547	1.621	1.637	1.431	1.557	5.24
10)C Phenol						0.000	-1.00
11) Aniline						0.000	-1.00
12) bis(2-Chloroethyl						0.000	-1.00
13) Benzaldehyde						0.000	-1.00
14) 2-Chlorophenol						0.000	-1.00
15) n-Decane	1.936	1.851	1.879	1.606	1.933	1.841	7.41
16) 1,3-Dichlorobenze						0.000	-1.00
17)C 1,4-Dichlorobenze						0.000	-1.00
18) Benzyl Alcohol						0.000	-1.00
19) 1,2-Dichlorobenze						0.000	-1.00
20) Acetophenone						0.000	-1.00
21) 2-Methylphenol						0.000	-1.00
22) bis(2-chloroisopr						0.000	-1.00
23) 4-Methylphenol						0.000	-1.00
24) m+p-Cresols						0.000	-1.00
25)P n-Nitroso-di-n-pr						0.000#	-1.00
26) Hexachloroethane						0.000	-1.00
27) I Naphthalene-d8	----------ISTD----------						
28)S Nitrobenzene-d5 (	0.397	0.384	0.402	0.413	0.366	0.392	4.65
29) Nitrobenzene						0.000	-1.00
30) Isophorone						0.000	-1.00
31) N-Nitrosodiethyla						0.000	-1.00
32)C 2-Nitrophenol						0.000	-1.00
33) 2,4-Dimethylpheno						0.000	-1.00
34) bis(2-Chloroethox						0.000	-1.00
35) Benzoic Acid						0.000	-1.00
36)C 2,4-Dichloropheno						0.000	-1.00
37) 1,2,4-Trichlorobe						0.000	-1.00
38) Naphthalene						0.000	-1.00
39) 4-Chloroaniline						0.000	-1.00
40) Caprolactam						0.000	-1.00
41)C Hexachlorobutadie						0.000	-1.00
42) N-Nitrosodi-n-but	0.043					0.043	0.00
43)C 4-Chloro-3-methyl						0.000	-1.00
44) 2-Methylnaphthale						0.000	-1.00
45) 1-Methylnaphthale						0.000	-1.00

Initial Calibration Summary

Job Number: T39314 **Sample:** EJ602-ICC602
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** J13035.D
Project: Vertellus-Provo

```
46) I   Acenaphthene-d10      ----------------ISTD---------------------
47)P Hexachlorocyclope                                          0.000  -1.00
48)  1,2,4,5-Tetrachlo                                          0.000  -1.00
49)C 2,4,6-Trichloroph                                          0.000  -1.00
50)  2,4,5-Trichloroph                                          0.000  -1.00
51)S 2-Fluorobiphenyl  1.443 1.452 1.520 1.490 1.404            1.462   3.05
52)  2-Chloronaphthale                                          0.000  -1.00
53)  1,1'-Biphenyl                                              0.000  -1.00
54)  2-Nitroaniline                                             0.000  -1.00
55)  Dimethylphthalate                                          0.000  -1.00
56)  Acenaphthylene                                             0.000  -1.00
57)  2,6-Dinitrotoluen                                          0.000  -1.00
58)  3-Nitroaniline                                             0.000  -1.00
59)C Acenaphthene                                               0.000  -1.00
60)P 2,4-Dinitrophenol                                          0.000# -1.00
61)P 4-Nitrophenol                                              0.000# -1.00
62)  Dibenzofuran                                               0.000  -1.00
63)  2,4-Dinitrotoluen                                          0.000  -1.00
64)  2,3,4,6-Tetrachlo                                          0.000  -1.00
65)  Diethylphthalate                                           0.000  -1.00
66)  Fluorene                                                   0.000  -1.00
67)  4-Chlorophenyl-ph                                          0.000  -1.00
68)  4-Nitroaniline                                             0.000  -1.00

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70)  1,2-Diphenylhydra                                          0.000  -1.00
71)  4,6-Dinitro-2-met                                          0.000  -1.00
72)  Diphenylamine                                              0.000  -1.00
73)  Atrazine                                                   0.000  -1.00
74)C n-Nitrosodiphenyl                                          0.000  -1.00
75)S 2,4,6-Tribromophe 0.117 0.118 0.133 0.147 0.094            0.122  16.32
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = 0.01092 + 0.08540 *A + 0.01188 *A^2

76)  4-Bromophenyl-phe                                          0.000  -1.00
77)  Hexachlorobenzene                                          0.000  -1.00
78)C Pentachlorophenol                                          0.000  -1.00
79)  n-Octadecane      0.774 0.817 0.811 0.708 0.764            0.775   5.68
80)  Phenanthrene                                               0.000  -1.00
81)  Anthracene                                                 0.000  -1.00
82)  Carbazole                                                  0.000  -1.00
83)  Pentachlorobenzen                                          0.000  -1.00
84)  Di-n-butylphthala                                          0.000  -1.00
85)C Fluoranthene                                               0.000  -1.00

86) I   Chrysene-d12          ----------------ISTD---------------------
87)  Benzidine                                                  0.000  -1.00
88)  Pyrene                                                     0.000  -1.00
89)S Terphenyl-d14     0.973 0.918 0.977 1.035 0.986            0.978   4.27
90)  Butylbenzylphthal                                          0.000  -1.00
91)  Benzo(a)anthracen                                          0.000  -1.00
92)  3,3'-Dichlorobenz                                          0.000  -1.00
93)  Chrysene                                                   0.000  -1.00
94)  bis(2-Ethylhexyl)                                          0.000  -1.00

95) I   Perylene-d12          ----------------ISTD---------------------
96)C Di-n-octylphthala                                          0.000  -1.00
97)  Benzo(b)fluoranth                                          0.000  -1.00
98)  Benzo(k)fluoranth                                          0.000  -1.00
```

Initial Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ602-ICC602
Lab FileID: J13035.D

```
 99)C Benzo(a)pyrene                                          0.000  -1.00
100)  Indeno(1,2,3-cd)p                                       0.000  -1.00
101)  Dibenz(a,h)anthra                                       0.000  -1.00
102)  Benzo(g,h,i)peryl                                       0.000  -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range

          ej602c.m          Sat Sep 05 15:32:57 2009
```

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ602-ICV602
Lab FileID: J13041.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej602\j13041.D            Vial: 10
Acq On    :  5 Sep 2009   3:36 pm                   Operator: sheilac
Sample    : icv602-50,(c10+c18)                     Inst    : AGC-VOA-MSJ
Misc      : op10821,Ej602,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej602c.m (RTE Integrator)
Title        :
Last Update  : Sat Sep 05 15:31:46 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	124	0.00	5.12
2		bis(Chloromethyl) ether		----------NA----------				
3		1,4-Dioxane		----------NA----------				
4		2-Picoline		----------NA----------				
5		n-Nitrosodimethylamine		----------NA----------				
6		Pyridine		----------NA----------				
7		Furfural		----------NA----------				
8	S	2-Fluorophenol (SURR)		----------NA----------				
9	S	Phenol-d5 (SURR)		----------NA----------				
10	C	Phenol		----------NA----------				
11		Aniline		----------NA----------				
12		bis(2-Chloroethyl)ether		----------NA----------				
13		Benzaldehyde		----------NA----------				
14		2-Chlorophenol		----------NA----------				
15		n-Decane	1.841	1.833	0.4	122	0.00	4.98
16		1,3-Dichlorobenzene		----------NA----------				
17	C	1,4-Dichlorobenzene		----------NA----------				
18		Benzyl Alcohol		----------NA----------				
19		1,2-Dichlorobenzene		----------NA----------				
20		Acetophenone		----------NA----------				
21		2-Methylphenol		----------NA----------				
22		bis(2-chloroisopropyl)eth		----------NA----------				
23		4-Methylphenol		----------NA----------				
24		m+p-Cresols		----------NA----------				
25	P	n-Nitroso-di-n-propylamin		----------NA----------				
26		Hexachloroethane		----------NA----------				
27	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	6.34
28	S	Nitrobenzene-d5 (SURR)		----------NA----------				
29		Nitrobenzene		----------NA----------				
30		Isophorone		----------NA----------				
31		N-Nitrosodiethylamine		----------NA----------				
32	C	2-Nitrophenol		----------NA----------				
33		2,4-Dimethylphenol		----------NA----------				
34		bis(2-Chloroethoxy)methan		----------NA----------				
35		Benzoic Acid		----------NA----------				
36	C	2,4-Dichlorophenol		----------NA----------				
37		1,2,4-Trichlorobenzene		----------NA----------				
38		Naphthalene		----------NA----------				
39		4-Chloroaniline		----------NA----------				
40		Caprolactam		----------NA----------				
41	C	Hexachlorobutadiene		----------NA----------				

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ602-ICV602
Lab FileID: J13041.D

42		N-Nitrosodi-n-butylamine		----------NA----------				
43	C	4-Chloro-3-methylphenol		----------NA----------				
44		2-Methylnaphthalene		----------NA----------				
45		1-Methylnaphthalene		----------NA----------				
46	I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00	8.83
47	P	Hexachlorocyclopentadiene		----------NA----------				
48		1,2,4,5-Tetrachlorobenzen		----------NA----------				
49	C	2,4,6-Trichlorophenol		----------NA----------				
50		2,4,5-Trichlorophenol		----------NA----------				
51	S	2-Fluorobiphenyl (SURR)		----------NA----------				
52		2-Chloronaphthalene		----------NA----------				
53		1,1'-Biphenyl		----------NA----------				
54		2-Nitroaniline		----------NA----------				
55		Dimethylphthalate		----------NA----------				
56		Acenaphthylene		----------NA----------				
57		2,6-Dinitrotoluene		----------NA----------				
58		3-Nitroaniline		----------NA----------				
59	C	Acenaphthene		----------NA----------				
60	P	2,4-Dinitrophenol		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		Dibenzofuran		----------NA----------				
63		2,4-Dinitrotoluene		----------NA----------				
64		2,3,4,6-Tetrachlorophenol		----------NA----------				
65		Diethylphthalate		----------NA----------				
66		Fluorene		----------NA----------				
67		4-Chlorophenyl-phenylethe		----------NA----------				
68		4-Nitroaniline		----------NA----------				
69	I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00	11.54
70		1,2-Diphenylhydrazine		----------NA----------				
71		4,6-Dinitro-2-methylpheno		----------NA----------				
72		Diphenylamine		----------NA----------				
73		Atrazine		----------NA----------				
74	C	n-Nitrosodiphenylamine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
75	S	2,4,6-Tribromophenol (SUR		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
76		4-Bromophenyl-phenylether		----------NA----------				
77		Hexachlorobenzene		----------NA----------				
78	C	Pentachlorophenol		----------NA----------				
79		n-Octadecane	0.775	0.758	2.2	116	-0.02	13.17
80		Phenanthrene		----------NA----------				
81		Anthracene		----------NA----------				
82		Carbazole		----------NA----------				
83		Pentachlorobenzene		----------NA----------				
84		Di-n-butylphthalate		----------NA----------				
85	C	Fluoranthene		----------NA----------				
86	I	Chrysene-d12	1.000	1.000	0.0	109	-0.01	16.84
87		Benzidine		----------NA----------				
88		Pyrene		----------NA----------				
89	S	Terphenyl-d14	0.978	0.010	99.0#	1#	-0.04	14.77
90		Butylbenzylphthalate		----------NA----------				
91		Benzo(a)anthracene		----------NA----------				
92		3,3'-Dichlorobenzidine		----------NA----------				
93		Chrysene		----------NA----------				
94		bis(2-Ethylhexyl)phthalat		----------NA----------				

Initial Calibration Verification

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ602-ICV602
Lab FileID: J13041.D

```
 95 I   Perylene-d12                1.000   1.000      0.0  108  -0.01   19.52
 96 C   Di-n-octylphthalate                ----------NA----------
 97     Benzo(b)fluoranthene               ----------NA----------
 98     Benzo(k)fluoranthene               ----------NA----------
 99 C   Benzo(a)pyrene                     ----------NA----------
100     Indeno(1,2,3-cd)pyrene             ----------NA----------
101     Dibenz(a,h)anthracene              ----------NA----------
102     Benzo(g,h,i)perylene               ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 3  CCC's out = 0
     j13035.D   ej602c.m         Sat Sep 05 16:21:45 2009
```

7.7.8

7

Initial Calibration Summary

Job Number: T39314
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: T39314 **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
```

7.7.9

7

Initial Calibration Verification

Job Number: T39314
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: T39314
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: T39314
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
```

7.7.10

7

Initial Calibration Summary

Job Number: T39314
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: T39314
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
```

7.7.11

7

Initial Calibration Verification

Job Number: T39314
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: T39314
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

7.7.12

7

Continuing Calibration Summary

Job Number: T39314
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: T39314
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: T39314 **Sample:** EJ630-CC615
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** J13703.D
Project: Vertellus-Provo

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

7.7.13

7

Continuing Calibration Summary

Job Number: T39314
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: T39314
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

7.7.14

7

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ631-CC615
Lab FileID: J13726.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej631\j13726.D            Vial: 2
Acq On    :  9 Oct 2009   9:27 am                   Operator: sheilac
Sample    : cc615-50                                Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej631,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title        :
Last Update  : Fri Oct 09 16:33:16 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	4.73
2		n-Nitrosodimethylamine	0.672	0.702	-4.5	96	0.00	2.46
3		Pyridine	1.186	1.296	-9.3	95	0.00	2.44
4	S	2-Fluorophenol (SURR)	1.255	1.298	-3.4	92	0.03	3.71
5	S	Phenol-d5 (SURR)	1.569	1.753	-11.7	96	0.00	4.51
6	C	Phenol	1.698	1.891	-11.4	96	0.00	4.52
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	50.000	53.453	-6.9	101	0.03	4.49
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.510	9.3	83	0.00	4.53
9		2-Chlorophenol	1.317	1.311	0.5	90	0.00	4.58
10		1,3-Dichlorobenzene	1.492	1.476	1.1	89	0.00	4.68
11	C	1,4-Dichlorobenzene	1.601	1.605	-0.2	91	0.00	4.75
12		Benzyl Alcohol	0.918	0.873	4.9	84	0.00	4.88
13		1,2-Dichlorobenzene	1.501	1.504	-0.2	89	0.00	4.88
14		2-Methylphenol	1.190	1.196	-0.5	93	0.00	4.99
15		bis(2-chloroisopropyl)eth	2.108	2.094	0.7	93	0.01	4.98
16		4-Methylphenol	1.259	1.234	2.0	91	0.00	5.14
17		m+p-Cresols	1.259	1.234	2.0	91	0.00	5.14
18	P	n-Nitroso-di-n-propylamin	1.142	1.116	2.3	91	-0.01	5.11
19		Hexachloroethane	0.584	0.586	-0.3	90	0.00	5.17
20	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	5.95
21	S	Nitrobenzene-d5 (SURR)	0.419	0.444	-6.0	91	-0.07	5.23
22		Nitrobenzene	0.412	0.438	-6.3	92	-0.07	5.25
23		Isophorone	0.756	0.758	-0.3	88	-0.06	5.49
24	C	2-Nitrophenol	0.189	0.190	-0.5	87	-0.06	5.55
25		2,4-Dimethylphenol	0.313	0.325	-3.8	85	-0.06	5.63
26		bis(2-Chloroethoxy)methan	0.417	0.428	-2.6	90	-0.06	5.69
		----------	Amount	Calc.	%Drift		----------	
27		Benzoic Acid	50.000	60.774	-21.5	103	-0.06	5.83
		----------	AvgRF	CCRF	%Dev		----------	
28	C	2,4-Dichlorophenol	0.276	0.287	-4.0	90	-0.06	5.83
29		1,2,4-Trichlorobenzene	0.332	0.338	-1.8	87	-0.06	5.89
30		Naphthalene	1.089	1.132	-3.9	89	-0.06	5.97
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	51.778	-3.6	92	-0.06	6.04

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ631-CC615
Lab FileID: J13726.D

			AvgRF	CCRF	%Dev			
32	C	Hexachlorobutadiene	0.208	0.220	-5.8	91	-0.06	6.12
33	C	4-Chloro-3-methylphenol	0.311	0.315	-1.3	87	-0.06	6.68
34		2-Methylnaphthalene	0.666	0.682	-2.4	87	0.00	6.82
35		1-Methylnaphthalene	0.697	0.714	-2.4	87	0.00	6.96
36	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.01	8.43
			Amount	Calc.	%Drift			
37	P	Hexachlorocyclopentadiene	50.000	41.327	17.3	60	0.00	7.05
			AvgRF	CCRF	%Dev			
38	C	2,4,6-Trichlorophenol	0.334	0.325	2.7	84	0.00	7.25
			Amount	Calc.	%Drift			
39		2,4,5-Trichlorophenol	50.000	43.633	12.7	82	0.00	7.33
40	S	2-Fluorobiphenyl (SURR)	50.000	49.519	1.0	85	-0.19	7.36
			AvgRF	CCRF	%Dev			
41		2-Chloronaphthalene	1.118	1.114	0.4	86	-0.20	7.52
42		2-Nitroaniline	0.376	0.392	-4.3	90	-0.20	7.72
43		Dimethylphthalate	1.343	1.295	3.6	84	-0.01	8.04
44		Acenaphthylene	1.894	1.847	2.5	84	-0.21	8.19
45		2,6-Dinitrotoluene	0.316	0.299	5.4	84	0.00	8.12
			Amount	Calc.	%Drift			
46		3-Nitroaniline	50.000	51.040	-2.1	94	-0.20	8.42
			AvgRF	CCRF	%Dev			
47	C	Acenaphthene	1.113	1.105	0.7	86	-0.21	8.49
			Amount	Calc.	%Drift			
48	P	2,4-Dinitrophenol	50.000	55.771	-11.5	104	-0.19	8.60
49	P	4-Nitrophenol	50.000	40.645	18.7	77	0.00	8.87
			AvgRF	CCRF	%Dev			
50		Dibenzofuran	1.590	1.559	1.9	84	-0.21	8.79
51		2,4-Dinitrotoluene	0.378	0.363	4.0	82	0.00	8.83
			Amount	Calc.	%Drift			
52		2,3,4,6-Tetrachlorophenol	50.000	45.277	9.4	82	-0.21	9.05
			AvgRF	CCRF	%Dev			
53		Diethylphthalate	1.394	1.358	2.6	85	0.04	9.29
54		Fluorene	1.386	1.359	1.9	84	0.00	9.41
			Amount	Calc.	%Drift			
55		4-Chlorophenyl-phenylethe	50.000	46.173	7.7	85	-0.21	9.43
			AvgRF	CCRF	%Dev			
56		4-Nitroaniline	0.226	0.235	-4.0	89	-0.21	9.54
57	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00	11.21
58		1,2-Diphenylhydrazine	1.017	0.972	4.4	85	-0.07	9.74
			Amount	Calc.	%Drift			
59		4,6-Dinitro-2-methylpheno	50.000	48.916	2.2	91	-0.07	9.60
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: T39314 **Sample:** EJ631-CC615
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** J13726.D
Project: Vertellus-Provo

60		Diphenylamine	0.749	0.740	1.2	86	-0.08	9.68
61	C	n-Nitrosodiphenylamine	0.749	0.740	1.2	86	-0.08	9.68
62	S	2,4,6-Tribromophenol (SUR	0.135	0.129	4.4	84	-0.08	9.88
63		4-Bromophenyl-phenylether	0.253	0.245	3.2	85	-0.07	10.36
64		Hexachlorobenzene	0.275	0.263	4.4	85	0.00	10.48
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	50.000	46.152	7.7	84	0.01	10.91
		----------	AvgRF	CCRF	%Dev		----------	
66		Phenanthrene	1.192	1.165	2.3	86	0.00	11.26
67		Anthracene	1.147	1.130	1.5	87	-0.07	11.36
68		Carbazole	0.924	0.933	-1.0	90	-0.06	11.74
69		Di-n-butylphthalate	1.431	1.406	1.7	90	-0.03	12.56
70	C	Fluoranthene	1.080	1.066	1.3	92	0.00	13.71
71	I	Chrysene-d12	1.000	1.000	0.0	135	0.01	16.74
		----------	Amount	Calc.	%Drift		----------	
72		Benzidine	50.000	55.716	-11.4	151	-0.03	14.05
		----------	AvgRF	CCRF	%Dev		----------	
73		Pyrene	1.409	1.162	17.5	93	-0.03	14.17
74	S	Terphenyl-d14	0.955	0.818	14.3	99	-0.02	14.58
75		Butylbenzylphthalate	0.628	0.544	13.4	108	0.00	15.68
76		Benzo(a)anthracene	1.125	1.094	2.8	128	0.01	16.72
		----------	Amount	Calc.	%Drift		----------	
77		3,3'-Dichlorobenzidine	50.000	67.163	-34.3#	225	0.02	16.72
		----------	AvgRF	CCRF	%Dev		----------	
78		Chrysene	0.949	0.926	2.4	126	0.00	16.80
79		bis(2-Ethylhexyl)phthalat	0.843	0.732	13.2	119	0.01	16.96
80	I	Perylene-d12	1.000	1.000	0.0	130	0.01	19.54
81	C	Di-n-octylphthalate	1.916	2.038	-6.4	137	0.01	18.25
82		Benzo(b)fluoranthene	1.322	1.367	-3.4	131	0.02	18.86
83		Benzo(k)fluoranthene	1.207	1.384	-14.7	138	0.00	18.91
84	C	Benzo(a)pyrene	1.129	1.160	-2.7	129	0.11	19.44
85		Indeno(1,2,3-cd)pyrene	0.952	0.889	6.6	110	0.02	21.64
86		Dibenz(a,h)anthracene	0.790	0.737	6.7	111	0.01	21.66
87		Benzo(g,h,i)perylene	0.719	0.640	11.0	102	0.01	22.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13340.D ej615mg.m Mon Oct 12 13:52:55 2009

7.7.15

7

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ631-CC629
Lab FileID: J13727.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej631\j13727.D            Vial: 3
Acq On    :  9 Oct 2009   9:57 am                   Operator: sheilac
Sample    : cc629-50,(Bzth+Resor)                   Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej631,1000,,,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	108	0.00	4.73
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)	1.540	1.506	2.2	107	0.00	3.71
4		Benzenethiol	1.540	1.510	1.9	108	0.00	4.40
5	S	Phenol-d5 (SURR)	1.959	1.894	3.3	106	-0.01	4.50
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	106	0.00	5.94
15	S	Nitrobenzene-d5 (SURR)	0.498	0.494	0.8	106	0.00	5.22
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
19		Resorcinol	50.000	40.618	18.8	86	-0.01	6.59
		----------	AvgRF	CCRF	%Dev		----------	
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00	8.41
22	S	2-Fluorobiphenyl (SURR)	1.640	1.712	-4.4	101	-0.01	7.34
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00	11.19
28	S	2,4,6-Tribromophenol (SUR	0.136	0.132	2.9	79	-0.02	9.86
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	62	0.00	16.71
34		Pyrene		----------NA----------				

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ631-CC629
Lab FileID: J13727.D

35	S	Terphenyl-d14	1.227	1.275	-3.9	63	-0.01	14.56
36		Butylbenzylphthalate	----------NA----------					
37		Benzo(a)anthracene	----------NA----------					
38		Chrysene	----------NA----------					
39		bis(2-Ethylhexyl)phthalat	----------NA----------					
40	I	Perylene-d12	1.000	1.000	0.0	76	0.00	19.52
41		Methyl Chrysene	----------NA----------					
42	C	Di-n-octylphthalate	----------NA----------					
43		7,12-Dimethylbenz(a)anthr	----------NA----------					
44		Benzo(b)fluoranthene	----------NA----------					
45		Benzo(k)fluoranthene	----------NA----------					
46	C	Benzo(a)pyrene	----------NA----------					
47		Dibenz(a,h)acridine	----------NA----------					
48		Dibenz(a,h)anthracene	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13689.D ej629ben+res.m Fri Oct 09 10:35:22 2009

7.7.16

7

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ631-CC602
Lab FileID: J13728.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej631\j13728.D            Vial: 4
Acq On    :  9 Oct 2009  10:27 am                   Operator: sheilac
Sample    : cc602-50,(c10+c18)                      Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej631,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej602c.m (RTE Integrator)
Title        :
Last Update  : Fri Oct 09 10:40:37 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	178	0.00	4.73
2		bis(Chloromethyl) ether		----------NA----------				
3		1,4-Dioxane		----------NA----------				
4		2-Picoline		----------NA----------				
5		n-Nitrosodimethylamine		----------NA----------				
6		Pyridine		----------NA----------				
7		Furfural		----------NA----------				
8	S	2-Fluorophenol (SURR)	1.269	1.207	4.9	170	-0.11	3.71
9	S	Phenol-d5 (SURR)	1.557	1.694	-8.8	195	0.00	4.50
10	C	Phenol		----------NA----------				
11		Aniline		----------NA----------				
12		bis(2-Chloroethyl)ether		----------NA----------				
13		Benzaldehyde		----------NA----------				
14		2-Chlorophenol		----------NA----------				
15		n-Decane	1.841	1.653	10.2	159	0.00	4.61
16		1,3-Dichlorobenzene		----------NA----------				
17	C	1,4-Dichlorobenzene		----------NA----------				
18		Benzyl Alcohol		----------NA----------				
19		1,2-Dichlorobenzene		----------NA----------				
20		Acetophenone		----------NA----------				
21		2-Methylphenol		----------NA----------				
22		bis(2-chloroisopropyl)eth		----------NA----------				
23		4-Methylphenol		----------NA----------				
24		m+p-Cresols		----------NA----------				
25	P	n-Nitroso-di-n-propylamin		----------NA----------				
26		Hexachloroethane		----------NA----------				
27	I	Naphthalene-d8	1.000	1.000	0.0	208#	0.00	5.94
28	S	Nitrobenzene-d5 (SURR)	0.392	0.349	11.0	189	-0.04	5.22
29		Nitrobenzene		----------NA----------				
30		Isophorone		----------NA----------				
31		N-Nitrosodiethylamine		----------NA----------				
32	C	2-Nitrophenol		----------NA----------				
33		2,4-Dimethylphenol		----------NA----------				
34		bis(2-Chloroethoxy)methan		----------NA----------				
35		Benzoic Acid		----------NA----------				
36	C	2,4-Dichlorophenol		----------NA----------				
37		1,2,4-Trichlorobenzene		----------NA----------				
38		Naphthalene		----------NA----------				
39		4-Chloroaniline		----------NA----------				
40		Caprolactam		----------NA----------				
41	C	Hexachlorobutadiene		----------NA----------				

Continuing Calibration Summary

Job Number: T39314 **Sample:** EJ631-CC602
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** J13728.D
Project: Vertellus-Provo

42		N-Nitrosodi-n-butylamine		----------NA----------				
43	C	4-Chloro-3-methylphenol		----------NA----------				
44		2-Methylnaphthalene		----------NA----------				
45		1-Methylnaphthalene		----------NA----------				
46	I	Acenaphthene-d10	1.000	1.000	0.0	171	0.00	8.41
47	P	Hexachlorocyclopentadiene		----------NA----------				
48		1,2,4,5-Tetrachlorobenzen		----------NA----------				
49	C	2,4,6-Trichlorophenol		----------NA----------				
50		2,4,5-Trichlorophenol		----------NA----------				
51	S	2-Fluorobiphenyl (SURR)	1.462	1.543	-5.5	181	-0.05	7.35
52		2-Chloronaphthalene		----------NA----------				
53		1,1'-Biphenyl		----------NA----------				
54		2-Nitroaniline		----------NA----------				
55		Dimethylphthalate		----------NA----------				
56		Acenaphthylene		----------NA----------				
57		2,6-Dinitrotoluene		----------NA----------				
58		3-Nitroaniline		----------NA----------				
59	C	Acenaphthene		----------NA----------				
60	P	2,4-Dinitrophenol		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		Dibenzofuran		----------NA----------				
63		2,4-Dinitrotoluene		----------NA----------				
64		2,3,4,6-Tetrachlorophenol		----------NA----------				
65		Diethylphthalate		----------NA----------				
66		Fluorene		----------NA----------				
67		4-Chlorophenyl-phenylethe		----------NA----------				
68		4-Nitroaniline		----------NA----------				
69	I	Phenanthrene-d10	1.000	1.000	0.0	181	0.00	11.19
70		1,2-Diphenylhydrazine		----------NA----------				
71		4,6-Dinitro-2-methylpheno		----------NA----------				
72		Diphenylamine		----------NA----------				
73		Atrazine		----------NA----------				
74	C	n-Nitrosodiphenylamine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
75	S	2,4,6-Tribromophenol (SUR	100.000	94.352	5.6	172	-0.08	9.86
		----------	AvgRF	CCRF	%Dev	----------		
76		4-Bromophenyl-phenylether		----------NA----------				
77		Hexachlorobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
78	C	Pentachlorophenol		----------NA----------				
79		n-Octadecane	50.000	40.300	19.4	127	0.00	12.92
80		Phenanthrene		----------NA----------				
81		Anthracene		----------NA----------				
82		Carbazole		----------NA----------				
83		Pentachlorobenzene		----------NA----------				
84		Di-n-butylphthalate		----------NA----------				
85	C	Fluoranthene		----------NA----------				
86	I	Chrysene-d12	1.000	1.000	0.0	94	-0.27	16.71
87		Benzidine		----------NA----------				
88		Pyrene		----------NA----------				
89	S	Terphenyl-d14	0.978	1.143	-16.9	116	-0.29	14.57
90		Butylbenzylphthalate		----------NA----------				
91		Benzo(a)anthracene		----------NA----------				
92		3,3'-Dichlorobenzidine		----------NA----------				
93		Chrysene		----------NA----------				

Continuing Calibration Summary

Job Number: T39314
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ631-CC602
Lab FileID: J13728.D

94		bis(2-Ethylhexyl)phthalat		----------NA----------					
95	I	Perylene-d12	1.000	1.000	0.0	81	-0.28	19.52	
96	C	Di-n-octylphthalate		----------NA----------					
97		Benzo(b)fluoranthene		----------NA----------					
98		Benzo(k)fluoranthene		----------NA----------					
99	C	Benzo(a)pyrene		----------NA----------					
100		Indeno(1,2,3-cd)pyrene		----------NA----------					
101		Dibenz(a,h)anthracene		----------NA----------					
102		Benzo(g,h,i)perylene		----------NA----------					

j13035.D ej602c.m Fri Oct 09 11:49:16 2009

7.1.17

7

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 09 09:32:47 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	595307	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	2063212	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1061910	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1433664	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	739145	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	518959	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	869727	46.56	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 46.56%			
5) Phenol-d5 (SURR)	4.501	99	749335	32.09	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 32.09%			
21) Nitrobenzene-d5 (SURR)	5.218	82	759252	35.09	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.18%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1354355	31.61	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 63.22%			
62) 2,4,6-Tribromophenol (...	9.855	330	354766	73.55	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 73.55%			
74) Terphenyl-d14	14.567	244	1003127	56.84	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 113.68%			

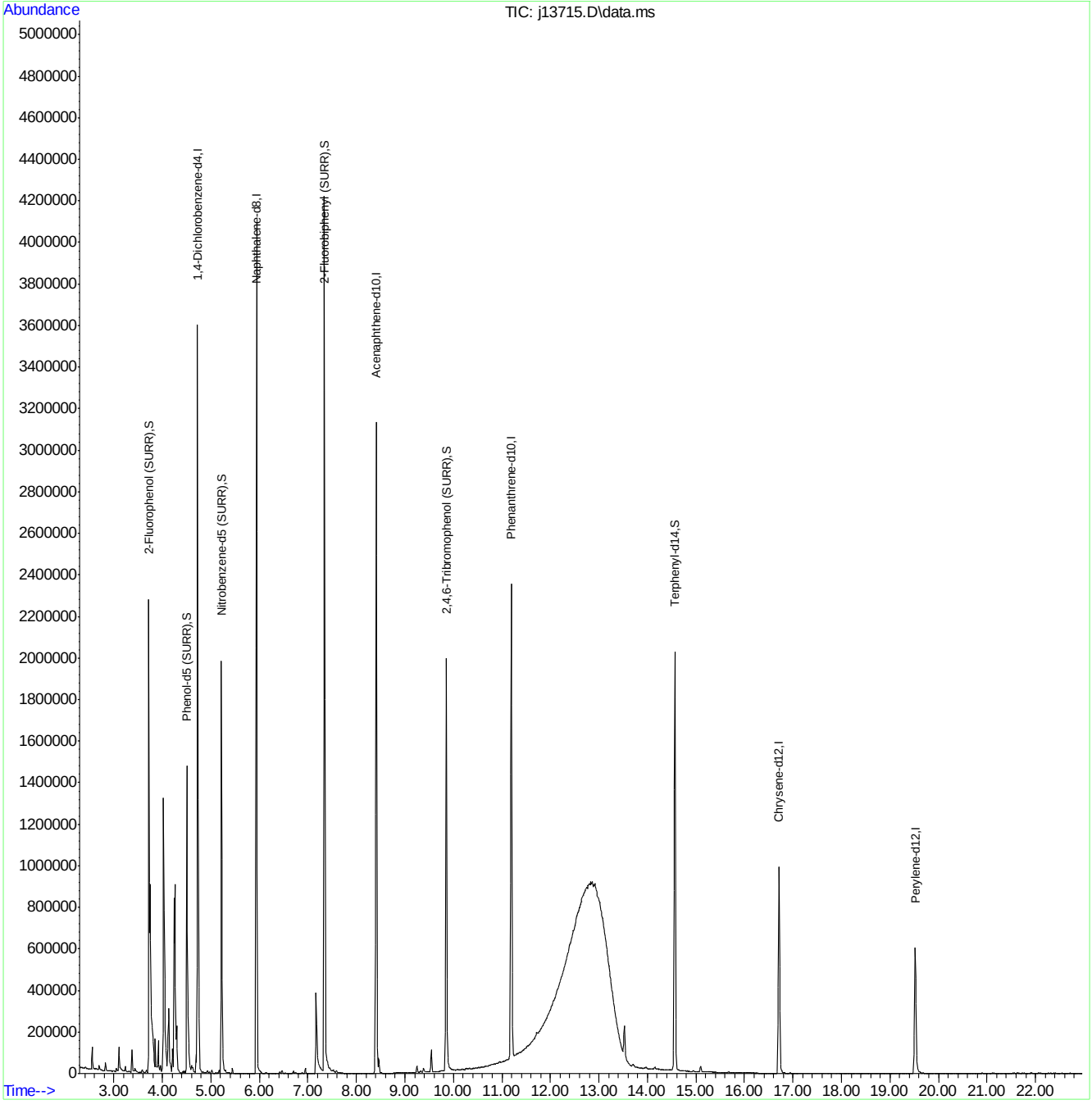
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 09 09:32:47 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 : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 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: j13715.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	56	rBV	107377	102401	1.87%	0.212%
2	3.105	149	153	156	rBV	114533	101418	1.85%	0.210%
3	3.373	199	203	209	rBV	107420	117467	2.15%	0.243%
4	3.720	265	268	271	rBV	2278496	2179692	39.84%	4.505%
5	3.747	271	273	290	rVV	902931	1754049	32.06%	3.625%
6	3.854	290	293	298	rVV	155707	164373	3.00%	0.340%
7	3.913	301	304	310	rVB	140827	129091	2.36%	0.267%
8	4.025	321	325	327	rBV	1289372	1081731	19.77%	2.236%
9	4.047	327	329	338	rVV2	417918	564745	10.32%	1.167%
10	4.132	338	345	356	rVB2	302521	579600	10.59%	1.198%
11	4.207	356	359	362	rBV	110489	113421	2.07%	0.234%
12	4.239	362	365	367	rVV	822889	814132	14.88%	1.682%
13	4.255	367	368	373	rVV	887722	822194	15.03%	1.699%
14	4.293	373	375	381	rVB	212664	234637	4.29%	0.485%
15	4.501	410	414	430	rBV	1477372	2340028	42.77%	4.836%
16	4.694	446	450	452	rBV	87422	89006	1.63%	0.184%
17	4.726	452	456	473	rVB	3596581	4023758	73.55%	8.315%
18	5.218	544	548	561	rBV	1984049	2379512	43.49%	4.917%
19	5.940	677	683	702	rBV	4095055	4789467	87.54%	9.898%
20	7.170	908	913	935	rBV	388746	769624	14.07%	1.591%
21	7.341	938	945	964	rVV	4207924	5471055	100.00%	11.306%
22	8.411	1136	1145	1151	rBV	3134821	4731103	86.48%	9.777%
23	8.459	1151	1154	1160	rVB	71369	96425	1.76%	0.199%
24	9.545	1352	1357	1363	rBV	108781	136019	2.49%	0.281%
25	9.855	1407	1415	1434	rBV	1984593	3318094	60.65%	6.857%
26	11.192	1657	1665	1676	rBV2	2280482	4070659	74.40%	8.412%
27	13.524	2096	2101	2130	rVB4	196955	520949	9.52%	1.077%
28	14.567	2284	2296	2313	rVB	2016507	3491141	63.81%	7.215%
29	16.712	2688	2697	2723	rBV	994878	2019627	36.91%	4.174%
30	19.520	3212	3222	3248	rBV	603895	1383341	25.28%	2.859%

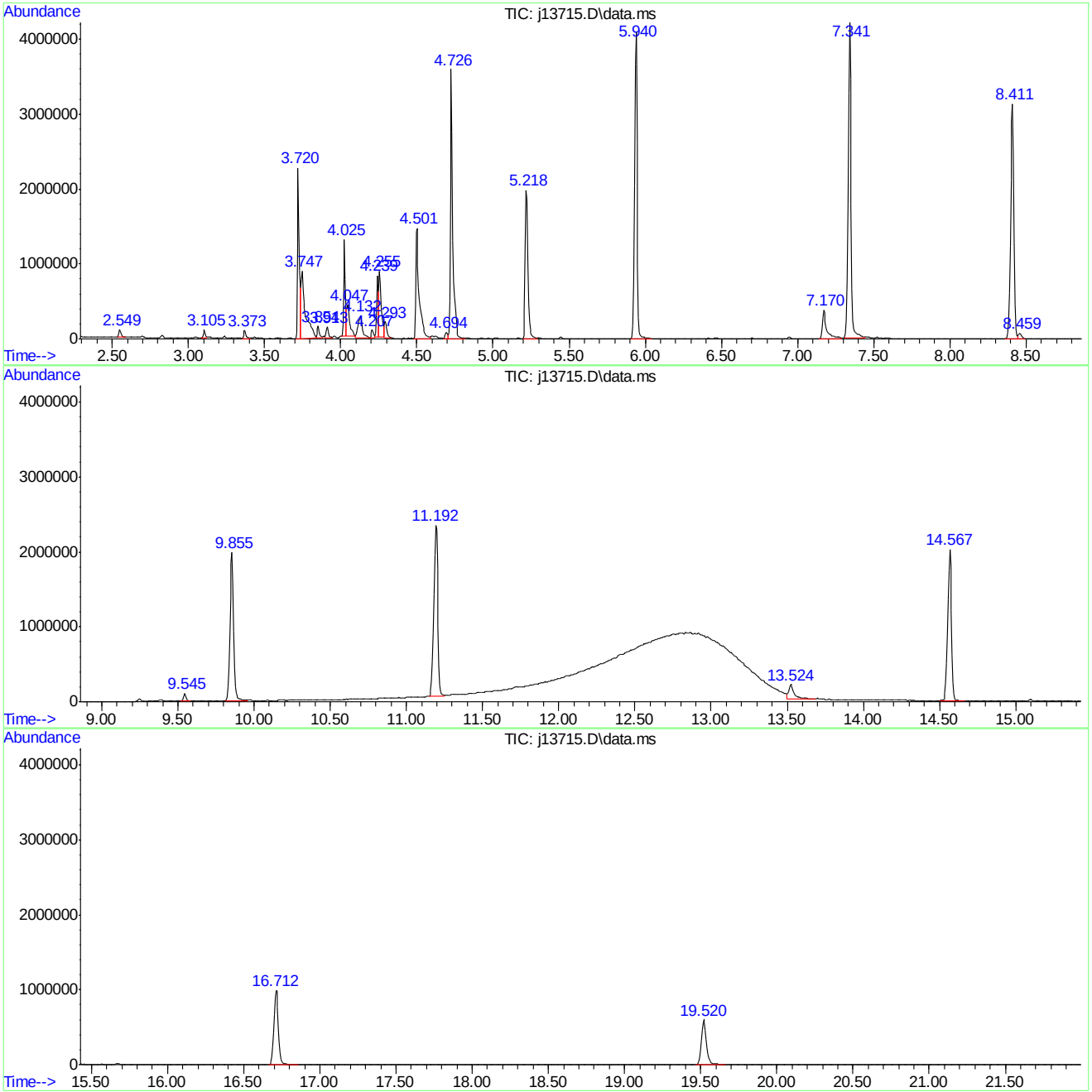
Sum of corrected areas: 48388759

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

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

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



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

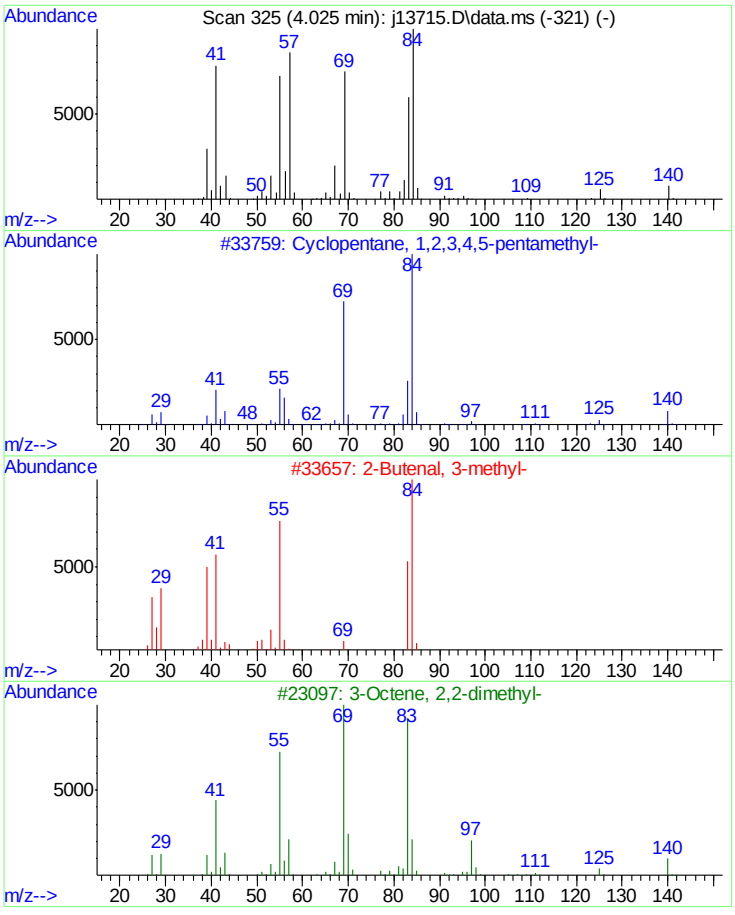
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

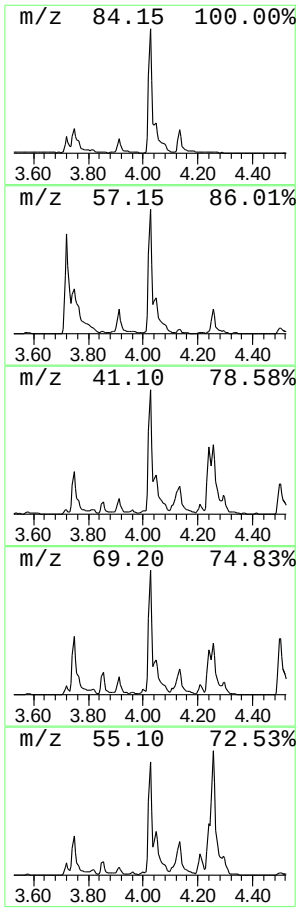
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	10.75 ug/ml	1081730	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	49
2	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
3	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	38
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	38
5	4-Nonene, 3-methyl-, (Z)-	140	C10H20	063830-69-3	38





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On    :  9 Oct 2009  12:57 am
Operator  : sheilac
Sample    : t39314-1
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

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

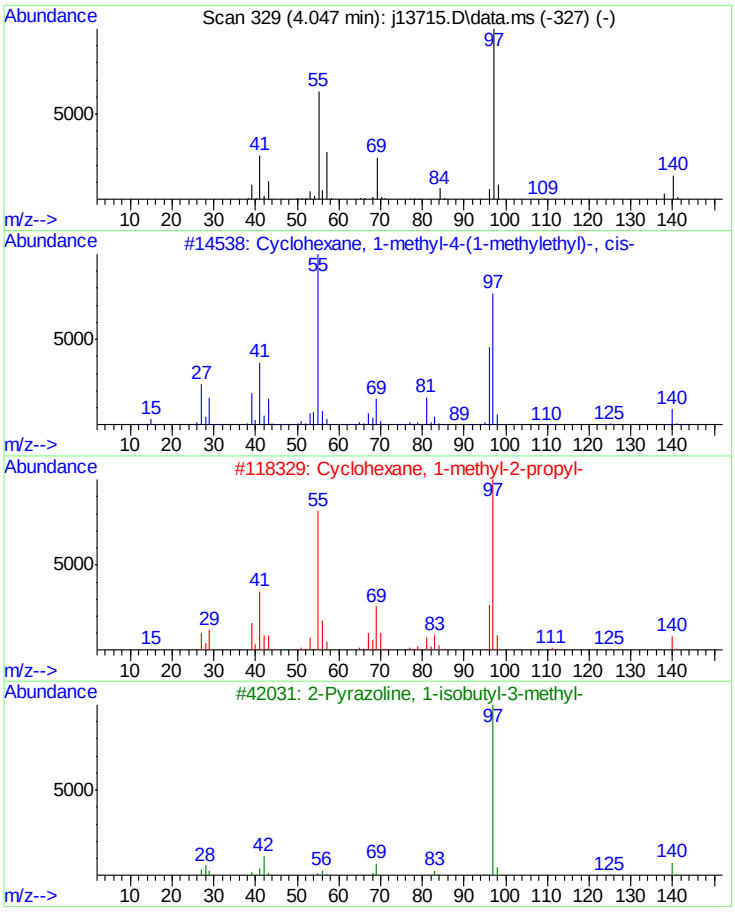
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

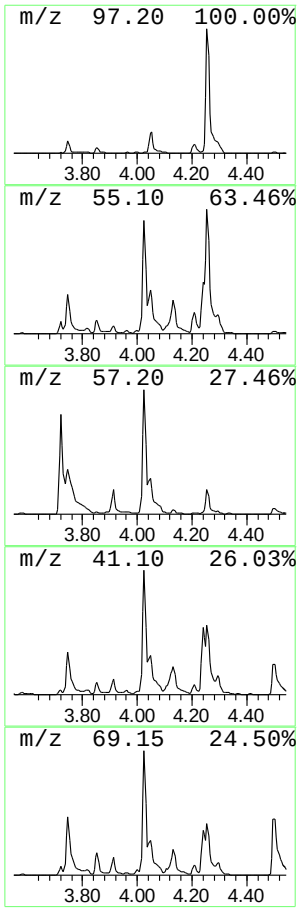
****

Peak Number 2 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.047	5.61 ug/ml	564745	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	72
2	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	72
3	2-Pyrazoline, 1-isobutyl-3-methyl-	140	C8H16N2	026964-53-4	72
4	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	64
5	4-Hepten-3-one, 2,6-dimethyl-	140	C9H16O	056259-14-4	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

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

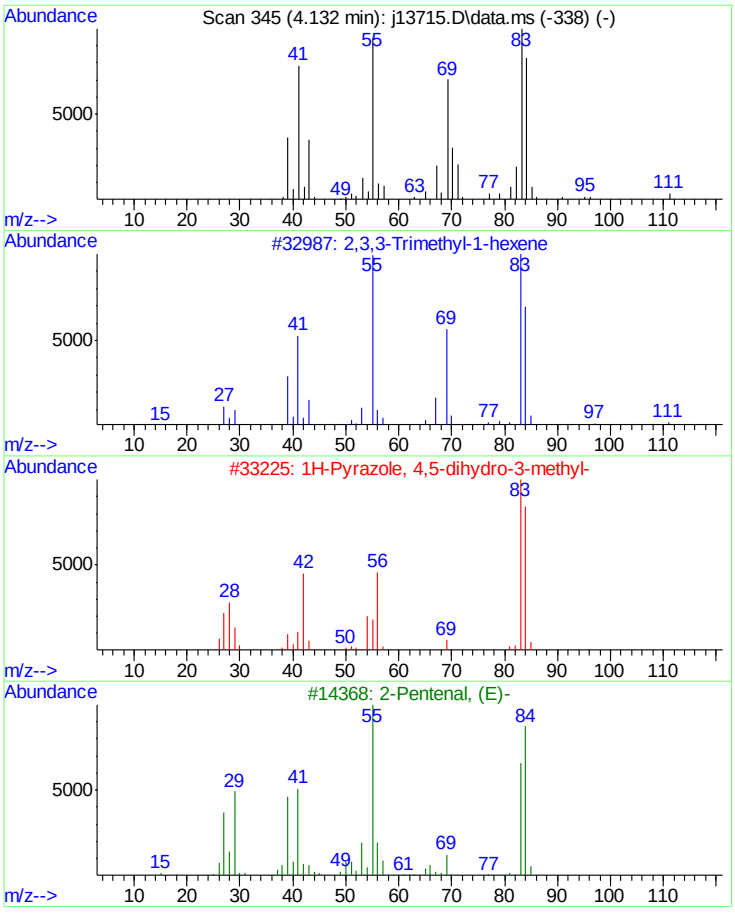
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

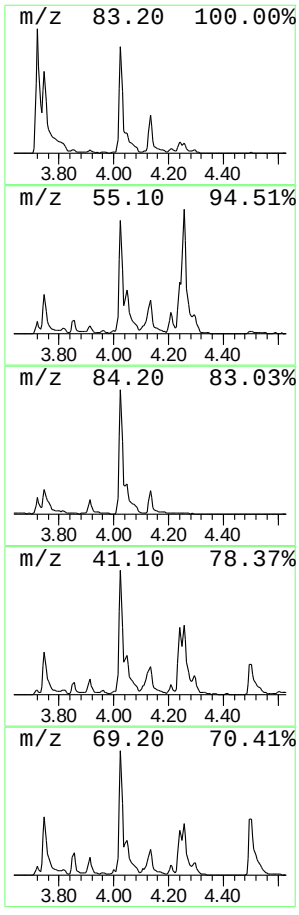
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.132	5.76 ug/ml	579600	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	64
2	1H-Pyrazole, 4,5-dihydro-3-methyl-	84	C4H8N2	001911-30-4	47
3	2-Pentenal, (E)-	84	C5H8O	001576-87-0	38
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	38
5	Cyclopentane, 1-ethyl-1-methyl-	112	C8H16	016747-50-5	35





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

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

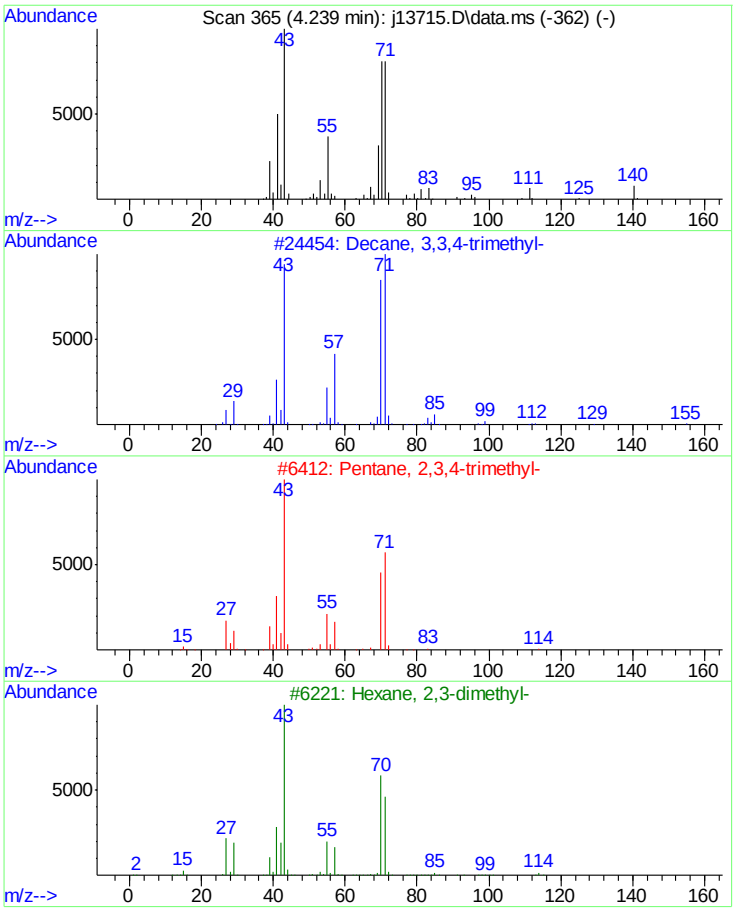
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

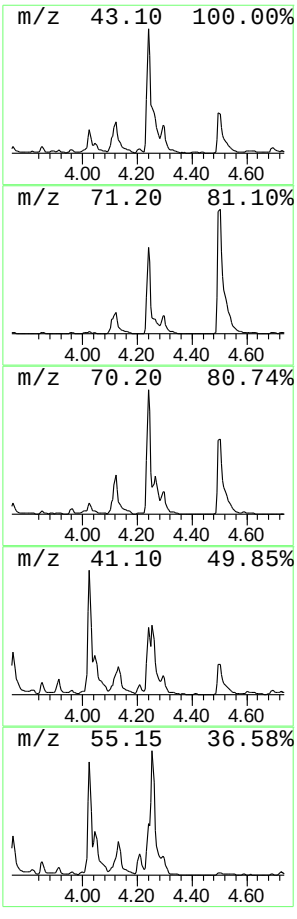
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	8.09 ug/ml	814132	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	72
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	56
4	Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	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 : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

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

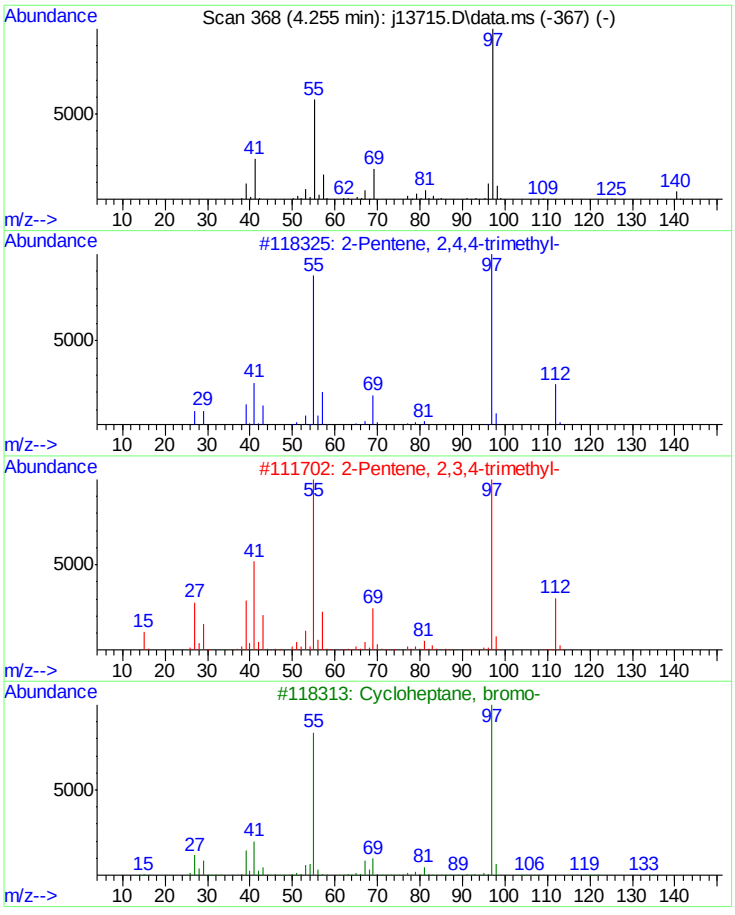
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

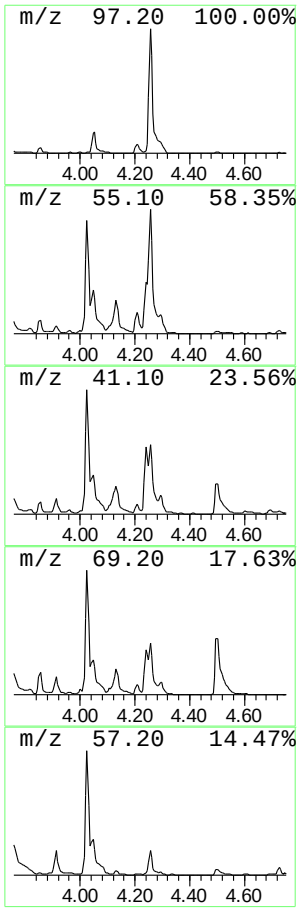
****

Peak Number 5 2-Pentene, 2,4,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	8.17 ug/ml	822194	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	72
2	2-Pentene, 2,3,4-trimethyl-	112	C8H16	000565-77-5	64
3	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	64
4	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	56
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

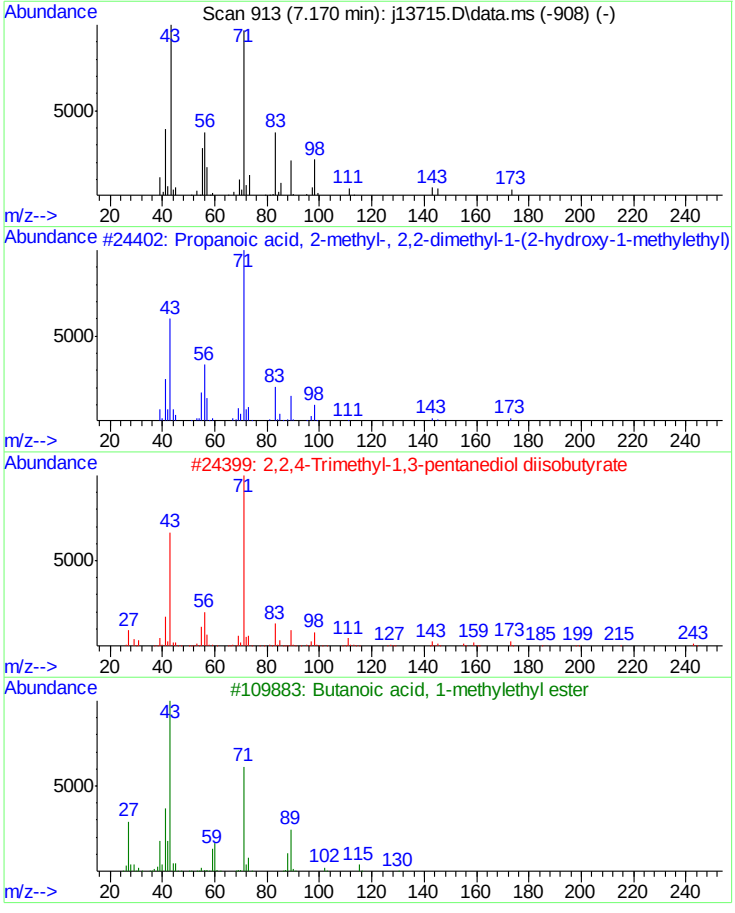
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

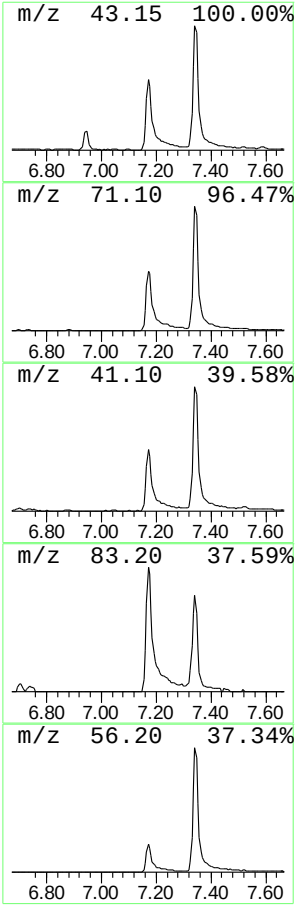
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Propanoic acid, 2-methyl-, ... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	6.43 ug/ml	769624	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	45
2	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	45
3	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	43
4	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	40
5	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	40





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

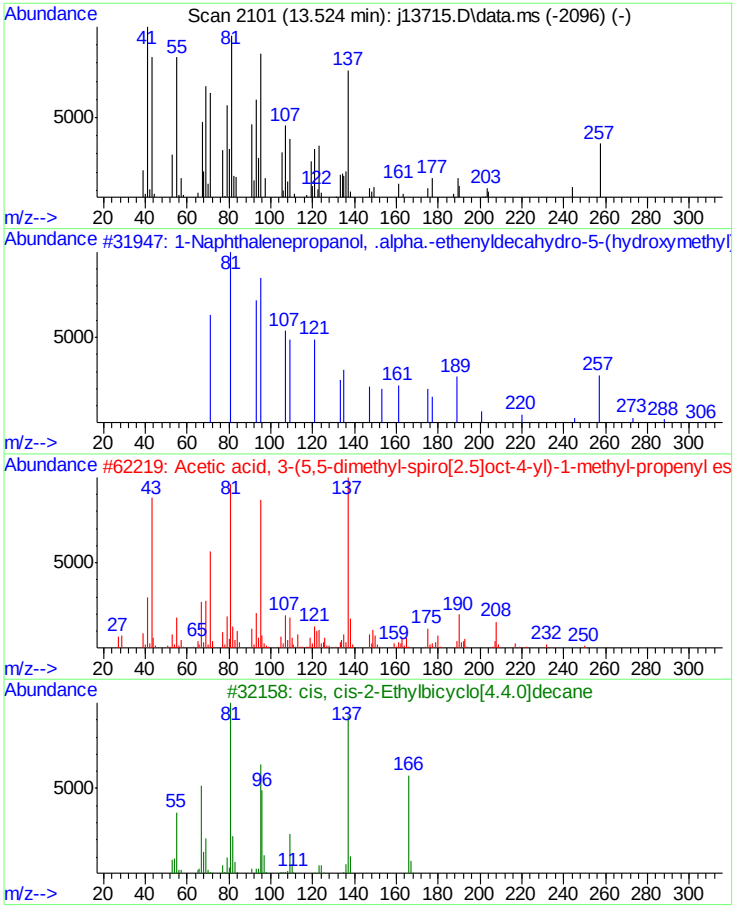
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

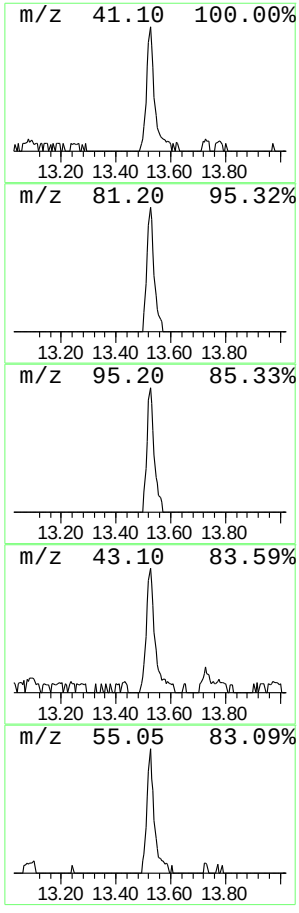
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.524	5.12 ug/ml	520949	Phenanthrene-d10	11.192

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenepropanol, .alpha.-e...	306	C20H34O2	003650-30-4	53
2	Acetic acid, 3-(5,5-dimethyl-spi...	250	C16H26O2	077143-33-0	50
3	cis, cis-2-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-40-0	50
4	Naphthalene, 2-butyldecahydro-	194	C14H26	006305-52-8	50
5	5-(1-Bromo-1-methyl-ethyl)-2-met...	234	C10H19BrO	1000188-65-7	47





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13715.D
Acq On : 9 Oct 2009 12:57 am
Operator : sheilac
Sample : t39314-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

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

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Cyclopentane, 1...	4.025	10.8	ug/ml	1081730	1	4.726	4023760	40.0
Cyclohexane, 1-...	4.047	5.6	ug/ml	564745	1	4.726	4023760	40.0
2,3,3-Trimethyl...	4.132	5.8	ug/ml	579600	1	4.726	4023760	40.0
Decane, 3,3,4-t...	4.239	8.1	ug/ml	814132	1	4.726	4023760	40.0
2-Pentene, 2,4,...	4.255	8.2	ug/ml	822194	1	4.726	4023760	40.0
Propanoic acid,...	7.170	6.4	ug/ml	769624	2	5.940	4789470	40.0
1-Naphthalenepr...	13.524	5.1	ug/ml	520949	4	11.192	4070660	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 09 09:26:16 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	710108	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	2479682	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1308571	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1814832	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	1025776	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	690662	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	776946	34.87	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 34.87%			
5) Phenol-d5 (SURR)	4.501	99	654359	23.49	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 23.49%			
21) Nitrobenzene-d5 (SURR)	5.218	82	636112	24.46	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 48.92%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1097819	21.06	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 42.12%			
62) 2,4,6-Tribromophenol (...	9.855	330	322056	52.74	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 52.74%			
74) Terphenyl-d14	14.562	244	1099445	44.89	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 89.78%			

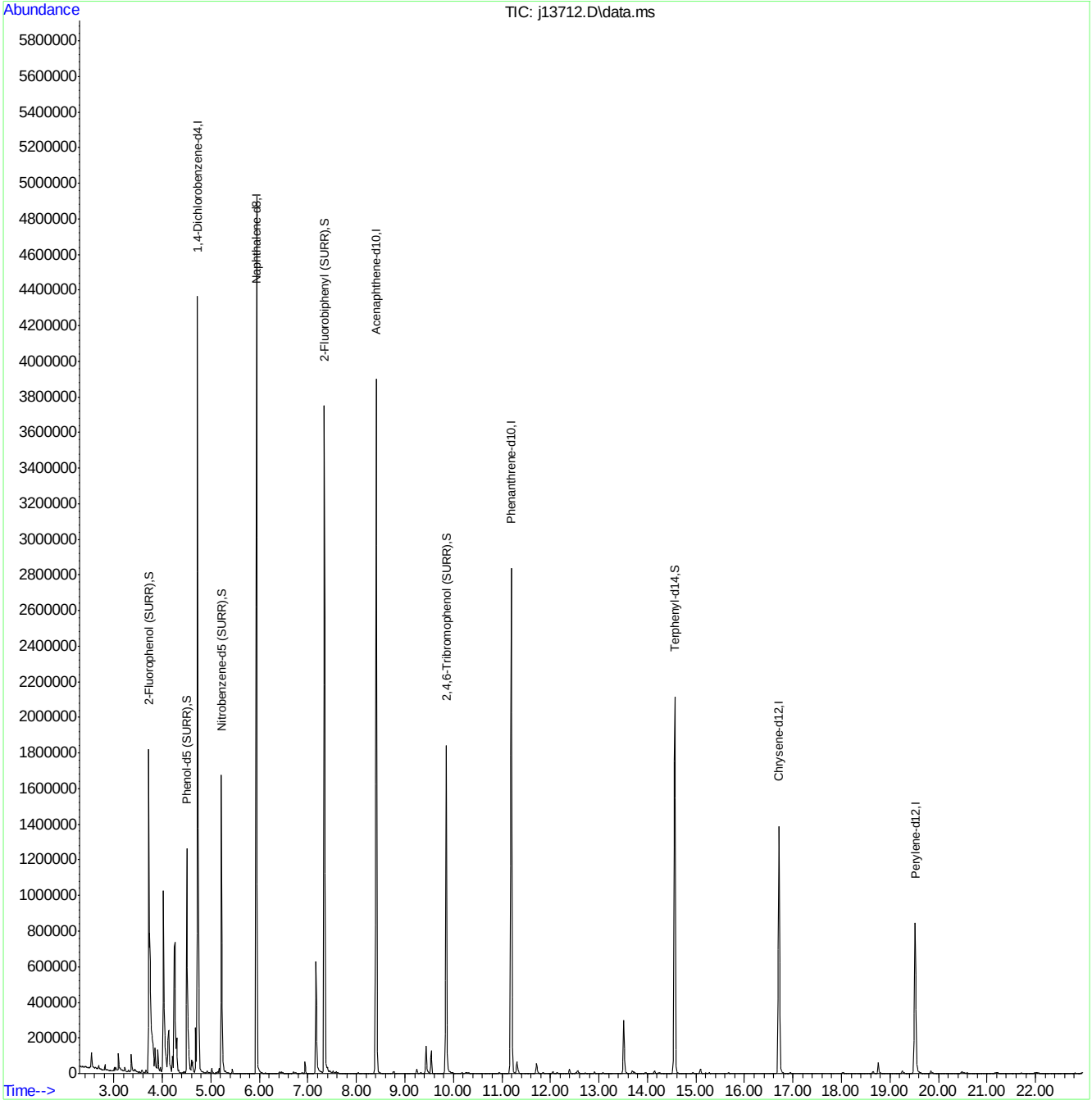
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 09 09:26:16 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 : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 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: j13712.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	82244	80536	1.37%	0.156%
2	3.095	148	151	154	rBV	94016	85279	1.45%	0.165%
3	3.362	197	201	206	rBV	98968	95731	1.63%	0.186%
4	3.720	264	268	271	rBV	1814576	1991763	33.97%	3.861%
5	3.742	271	272	289	rVV	778014	1465231	24.99%	2.840%
6	3.849	289	292	297	rVV2	132820	139293	2.38%	0.270%
7	3.908	300	303	310	rVB	116790	110643	1.89%	0.214%
8	4.020	321	324	327	rBV	990983	926609	15.80%	1.796%
9	4.127	338	344	356	rVB2	229397	475781	8.11%	0.922%
10	4.207	356	359	362	rBV	88039	90073	1.54%	0.175%
11	4.239	362	365	366	rVV	699178	557387	9.51%	1.080%
12	4.255	366	368	373	rVV	722622	803040	13.70%	1.557%
13	4.293	373	375	381	rVB	186942	194823	3.32%	0.378%
14	4.501	410	414	429	rBV	1260832	2048835	34.94%	3.971%
15	4.619	434	436	445	rVV	62765	71441	1.22%	0.138%
16	4.688	445	449	452	rVV	252836	251667	4.29%	0.488%
17	4.726	452	456	473	rVB	4354923	4800004	81.87%	9.304%
18	5.218	543	548	561	rBV	1672819	1996612	34.05%	3.870%
19	5.940	676	683	702	rBV	4926439	5783410	98.64%	11.210%
20	6.940	866	870	880	rBV	69071	77851	1.33%	0.151%
21	7.165	907	912	932	rBV	629707	933134	15.92%	1.809%
22	7.341	938	945	954	rBV	3744095	4859651	82.88%	9.419%
23	8.411	1136	1145	1159	rBV	3900412	5863176	100.00%	11.365%
24	9.438	1331	1337	1348	rBV	154965	251826	4.30%	0.488%
25	9.540	1351	1356	1362	rVB	131667	167715	2.86%	0.325%
26	9.855	1407	1415	1428	rBV	1843673	3034734	51.76%	5.882%
27	11.192	1654	1665	1680	rBV2	2838125	5113095	87.21%	9.911%
28	11.310	1680	1687	1698	rVB2	66457	144809	2.47%	0.281%
29	11.717	1756	1763	1775	rBB2	58081	105748	1.80%	0.205%
30	13.508	2090	2098	2116	rBB	300139	520709	8.88%	1.009%
31	14.562	2281	2295	2311	rBV2	2116544	3775822	64.40%	7.319%
32	16.712	2687	2697	2719	rBV	1390569	2811914	47.96%	5.450%
33	18.761	3072	3080	3091	rBV	59069	97072	1.66%	0.188%
34	19.520	3211	3222	3242	rBV	844388	1865997	31.83%	3.617%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On    :  8 Oct 2009  11:26 pm
Operator  : sheilac
Sample    : t39314-2
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 11   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     :
```

Sum of corrected areas: 51591411

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On    :  8 Oct 2009  11:26 pm
Operator  : sheilac
Sample    : t39314-2
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

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

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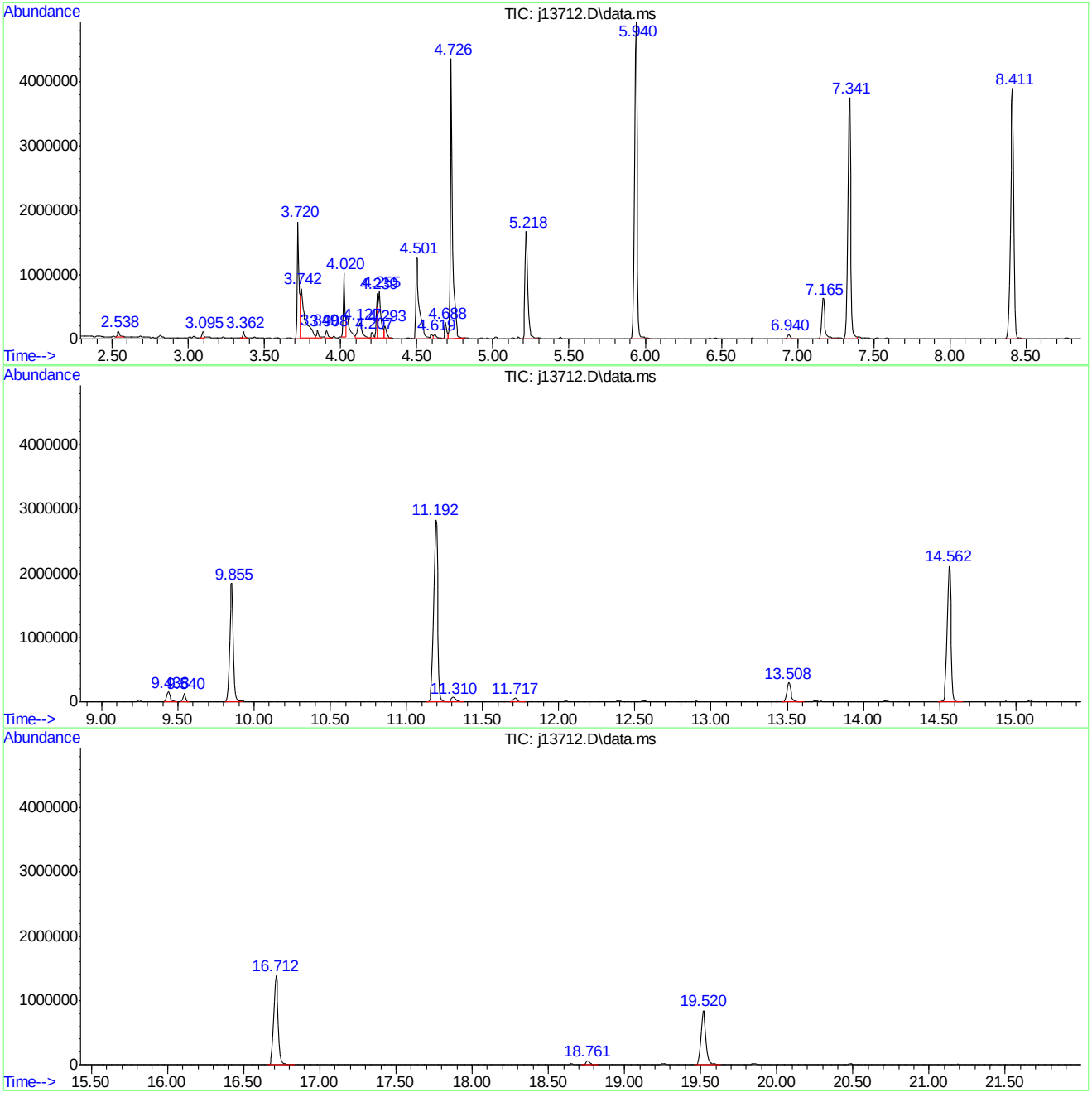


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

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

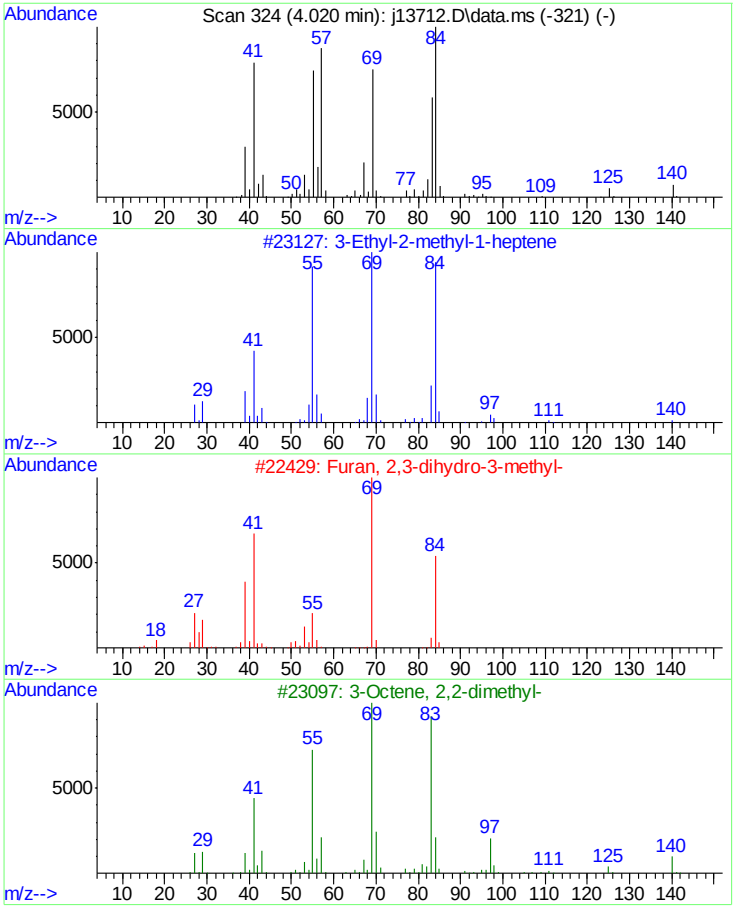
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

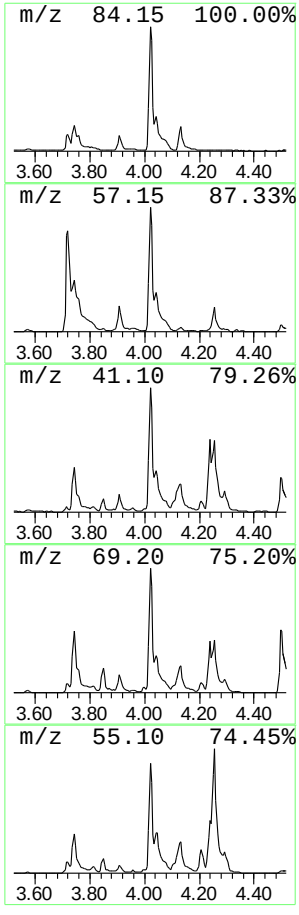
****

Peak Number 1 3-Ethyl-2-methyl-1-heptene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.020	7.72 ug/ml	926609	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethyl-2-methyl-1-heptene	140	C10H20	019780-60-0	53
2	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	49
3	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	43
4	2H-Pyran, 3,4-dihydro-	84	C5H8O	000110-87-2	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 : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

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

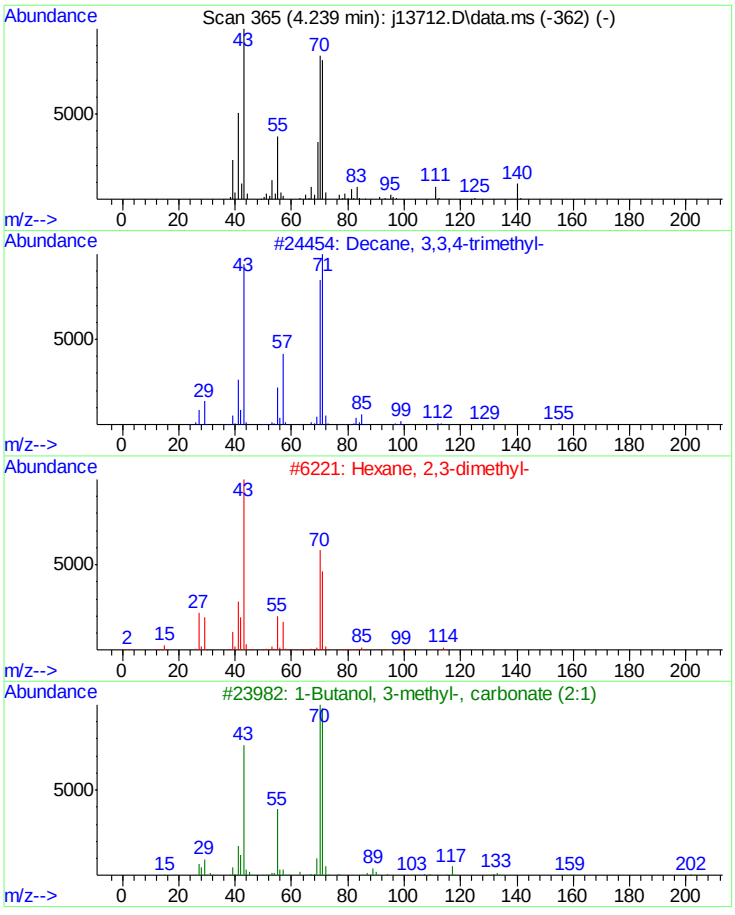
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

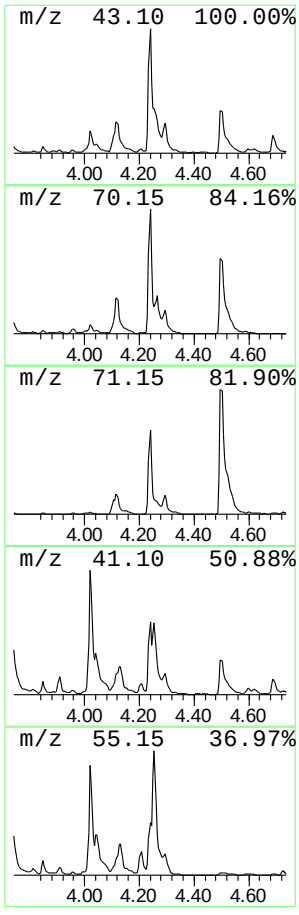
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	4.64 ug/ml	557387	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	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64
3	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	64
4	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	56
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

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

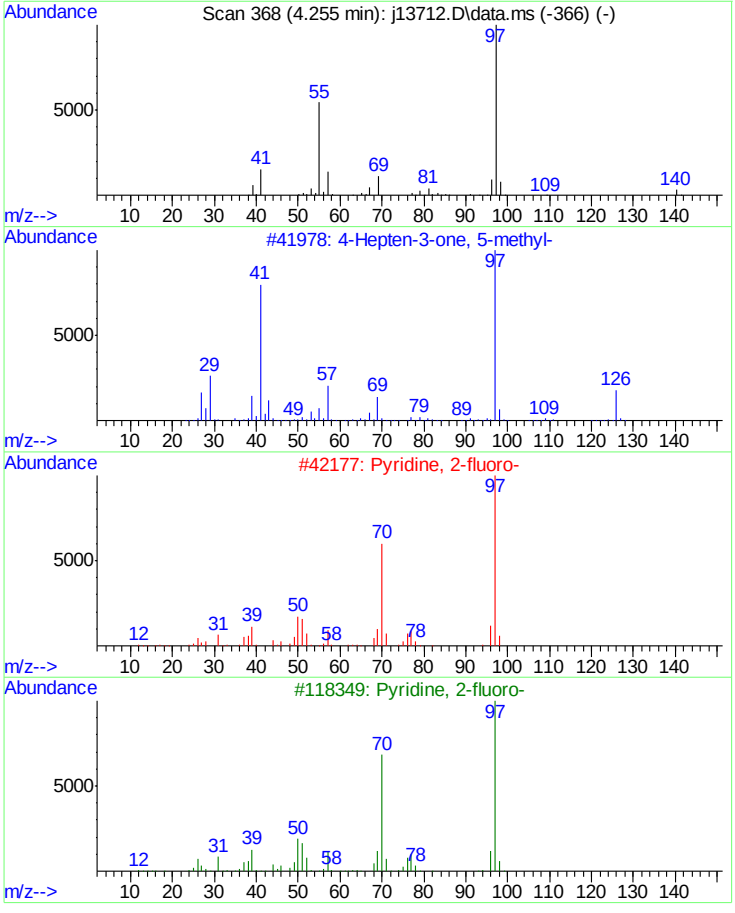
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

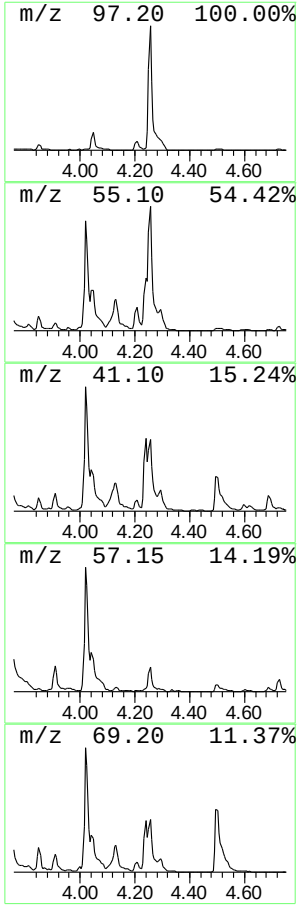
****

Peak Number 3 4-Hepten-3-one, 5-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	6.69 ug/ml	803040	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Hepten-3-one, 5-methyl-	126	C8H14O	001447-26-3	72
2	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
3	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
4	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
5	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

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

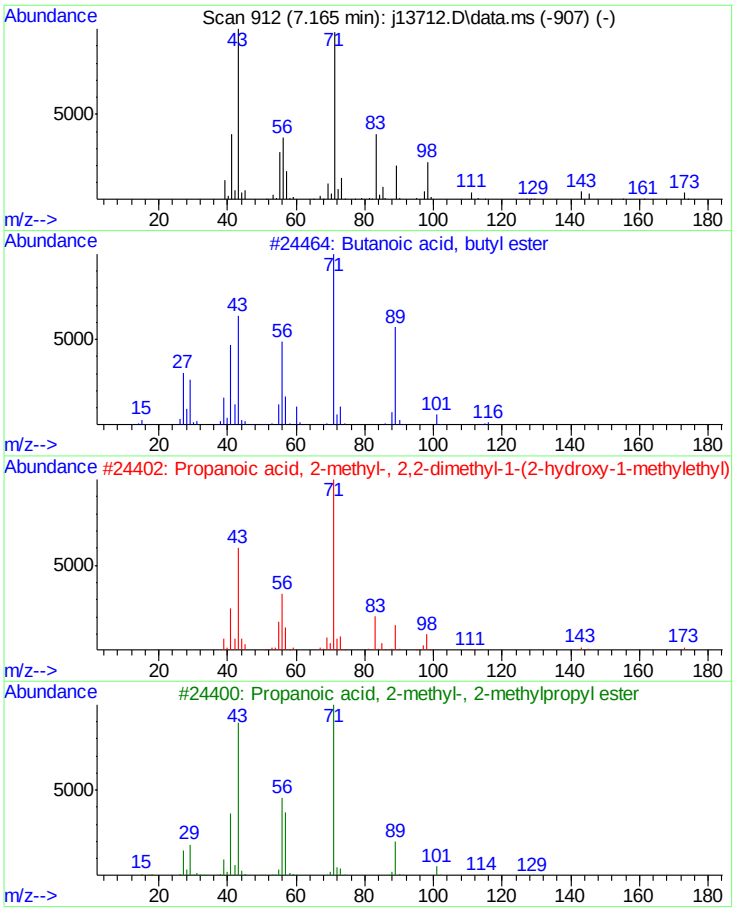
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

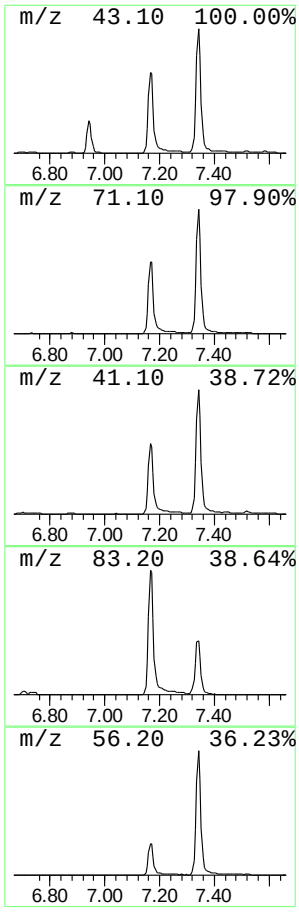
****

Peak Number 4 Butanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.165	6.45 ug/ml	933134	Naphthalene-d8	5.940

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	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	43
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	37
5	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	35





ACCUTEST Laboratories

Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On    :  8 Oct 2009  11:26 pm
Operator  : sheilac
Sample    : t39314-2
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

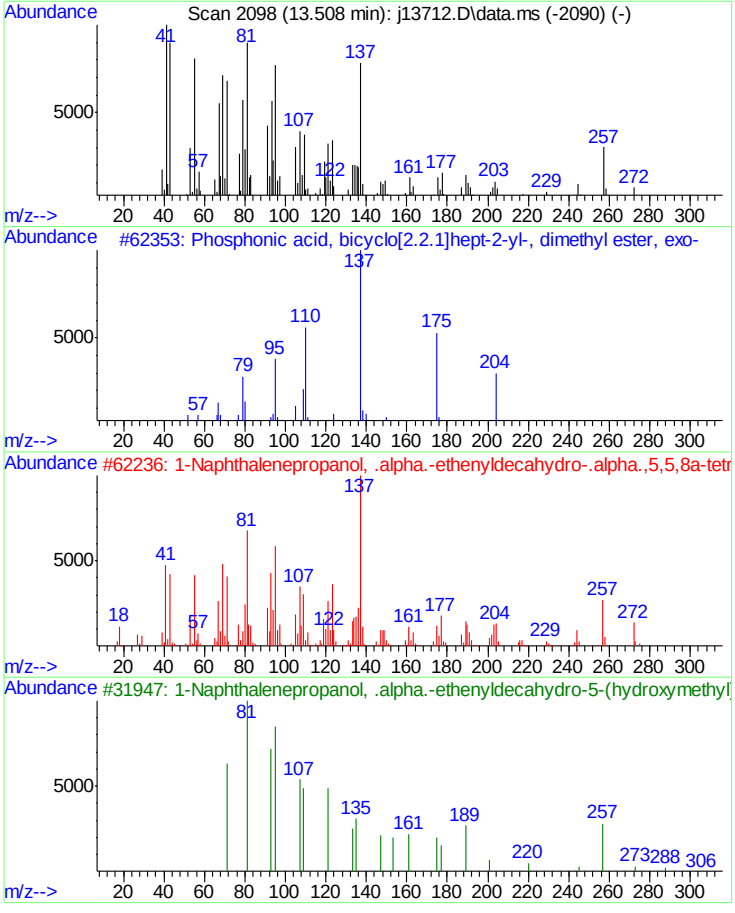
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

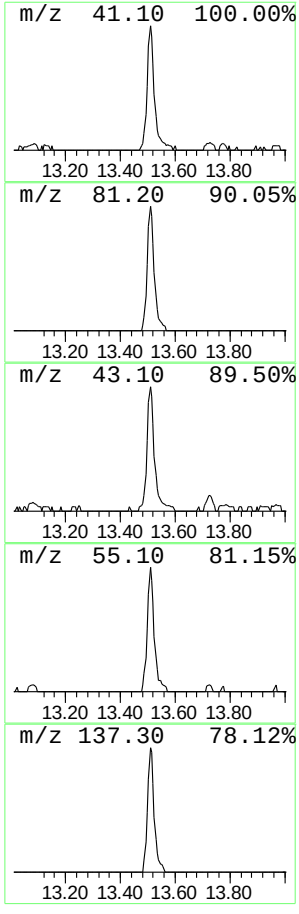
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number  5  Phosphonic acid, bicyclo[2....  Concentration Rank  5
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.508	4.07 ug/ml	520709	Phenanthrene-d10	11.192

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphonic acid, bicyclo[2.2.1]h...	204	C9H17O3P	031061-88-8	81
2	1-Naphthalenepropanol, .alpha.-e...	290	C20H34O	001438-62-6	64
3	1-Naphthalenepropanol, .alpha.-e...	306	C20H34O2	003650-30-4	58
4	trans, cis-2-Ethylbicyclo[4.4.0]...	166	C12H22	066660-39-7	47
5	Trans, trans-2-ethylbicyclo[4.4....	166	C12H22	066660-37-5	47





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13712.D
Acq On : 8 Oct 2009 11:26 pm
Operator : sheilac
Sample : t39314-2
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

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

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
3-Ethyl-2-methy...	4.020	7.7	ug/ml	926609	1	4.726	4800000	40.0
Decane, 3,3,4-t...	4.239	4.6	ug/ml	557387	1	4.726	4800000	40.0
4-Hepten-3-one,...	4.255	6.7	ug/ml	803040	1	4.726	4800000	40.0
Butanoic acid, ...	7.165	6.5	ug/ml	933134	2	5.940	5783410	40.0
Phosphonic acid...	13.508	4.1	ug/ml	520709	4	11.192	5113100	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 14:43:51 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

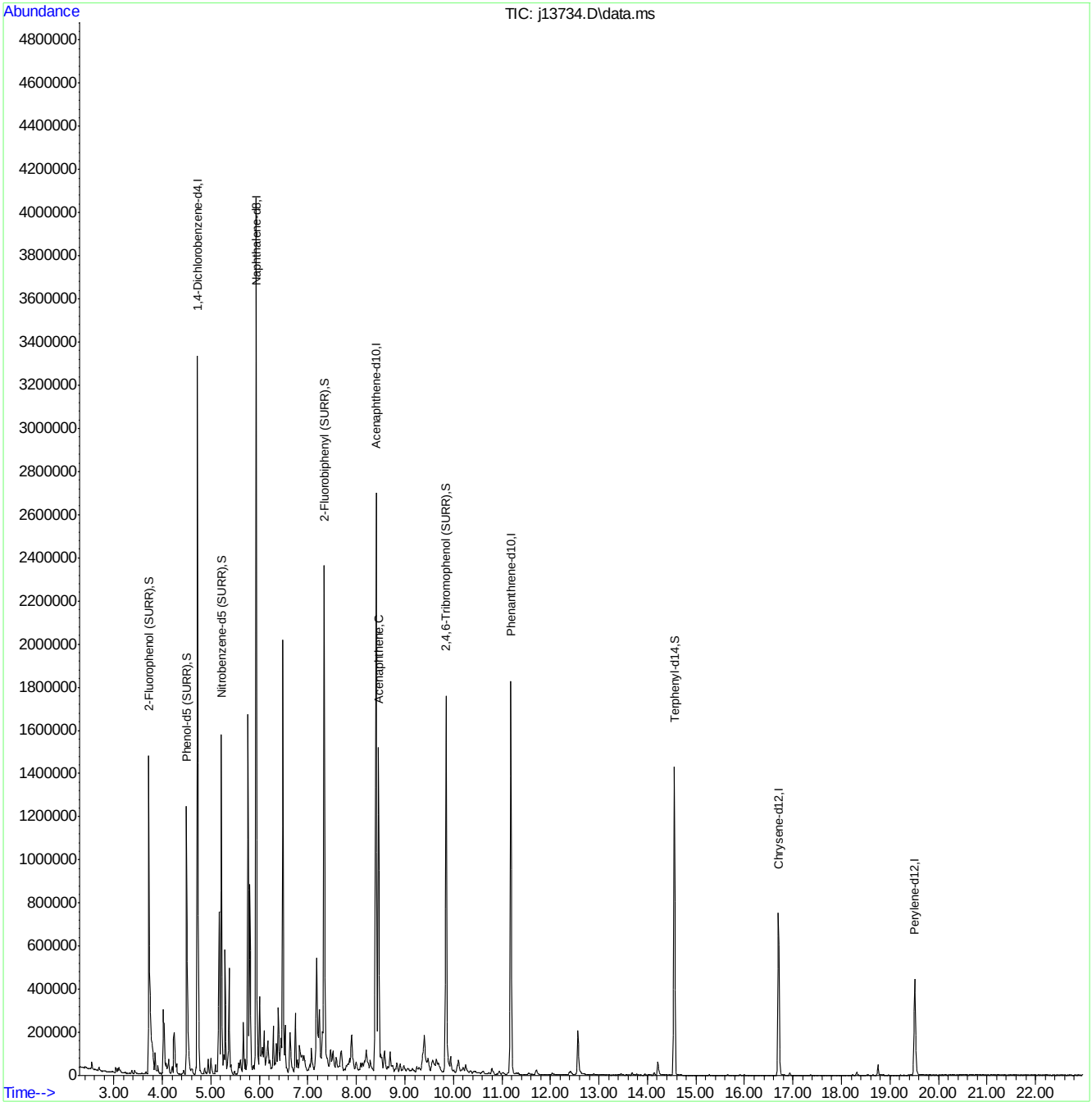
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.721	152	558998	40.00	ug/ml	0.00
20) Naphthalene-d8	5.935	136	1932902	40.00	ug/ml	-0.01
36) Acenaphthene-d10	8.406	164	942505	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.187	188	1133071	40.00	ug/ml	-0.02
71) Chrysene-d12	16.702	240	557189	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	378654	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	617494	35.20	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 35.20%			
5) Phenol-d5 (SURR)	4.496	99	605501	27.62	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 27.62%			
21) Nitrobenzene-d5 (SURR)	5.213	82	487906	24.07	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 48.14%			
40) 2-Fluorobiphenyl (SURR)	7.336	172	819242	21.79	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 43.58%			
62) 2,4,6-Tribromophenol (...	9.850	330	315084	82.65	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 82.65%			
74) Terphenyl-d14	14.557	244	730742	54.93	ug/ml	-0.04
Spiked Amount 50.000	Range 12 - 145		Recovery = 109.86%			
Target Compounds						Qvalue
47) Acenaphthene	8.454	154	482004	18.38	ug/ml	99

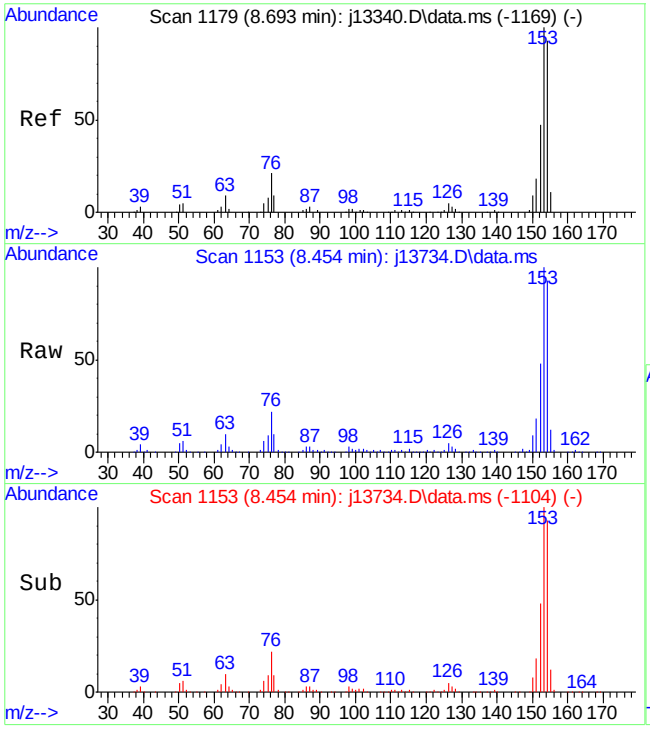
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 12 14:43:51 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

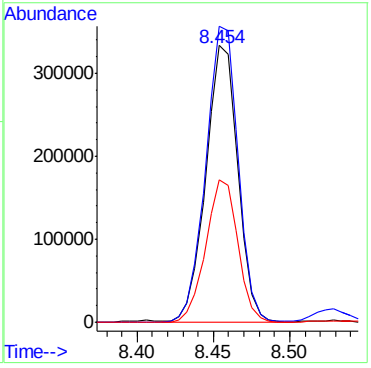




#47
Acenaphthene
Concen: 18.38 ug/ml
RT: 8.454 min Scan# 1153
Delta R.T. -0.239 min
Lab File: j13734.D
Acq: 9 Oct 2009 2:01 pm

Tgt Ion:154 Resp: 482004

Ion	Ratio	Lower	Upper
154	100		
153	108.4	87.9	127.9
152	52.0	31.3	71.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

Signal : TIC: j13734.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.720	264	268	289	rBV	1477481	2523949	53.29%	4.674%
2	3.849	289	292	297	rVB	85883	85153	1.80%	0.158%
3	4.020	320	324	325	rBV	292026	227080	4.79%	0.420%
4	4.127	340	344	353	rVB2	65751	100336	2.12%	0.186%
5	4.234	361	364	366	rVV	161030	162392	3.43%	0.301%
6	4.250	366	367	373	rVV	193627	195333	4.12%	0.362%
7	4.496	409	413	429	rBV	1241576	1938668	40.93%	3.590%
8	4.721	451	455	465	rVB	3315087	3699031	78.10%	6.850%
9	4.940	493	496	503	rVB2	68205	77109	1.63%	0.143%
10	4.999	503	507	518	rVB	73365	102305	2.16%	0.189%
11	5.170	532	539	544	rBV2	742919	1190033	25.13%	2.204%
12	5.218	544	548	554	rVV	1554914	1888188	39.87%	3.496%
13	5.266	554	557	559	rVV	70287	78277	1.65%	0.145%
14	5.293	559	562	568	rVB	553447	631503	13.33%	1.169%
15	5.373	568	577	582	rBV	469973	595743	12.58%	1.103%
16	5.571	609	614	617	rBV2	53871	73977	1.56%	0.137%
17	5.608	617	621	625	rVV4	64004	102484	2.16%	0.190%
18	5.667	628	632	637	rVV	231031	280392	5.92%	0.519%
19	5.710	637	640	643	rVV	59316	64200	1.36%	0.119%
20	5.764	643	650	654	rVV	1655078	2021291	42.68%	3.743%
21	5.806	654	658	667	rVB	861555	1125523	23.76%	2.084%
22	5.935	674	682	691	rBV	4041019	4736335	100.00%	8.770%
23	6.004	691	695	700	rBV	314095	405485	8.56%	0.751%
24	6.101	709	713	718	rVB	162173	195104	4.12%	0.361%
25	6.170	718	726	732	rVV3	115248	240747	5.08%	0.446%
26	6.213	732	734	739	rVB5	44929	55204	1.17%	0.102%
27	6.288	743	748	752	rBV2	195406	236496	4.99%	0.438%
28	6.352	756	760	763	rVV	108565	128459	2.71%	0.238%
29	6.389	763	767	772	rVV3	274277	363602	7.68%	0.673%
30	6.448	773	778	780	rVV2	138374	220955	4.67%	0.409%
31	6.486	780	785	790	rVV	1980663	2485788	52.48%	4.603%
32	6.528	790	793	798	rVB	198293	226354	4.78%	0.419%
33	6.630	804	812	827	rBV4	184555	382759	8.08%	0.709%
34	6.742	827	833	837	rBV2	273487	388322	8.20%	0.719%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

35	6.780	837	840	845	rVB	40093	50844	1.07%	0.094%
36	6.828	845	849	855	rBV2	106502	210267	4.44%	0.389%
37	6.919	863	866	873	rVB2	61850	114453	2.42%	0.212%
38	7.074	891	895	905	rVB	100798	170960	3.61%	0.317%
39	7.176	909	914	922	rVV2	497555	982566	20.75%	1.819%
40	7.234	922	925	932	rVV	246015	382734	8.08%	0.709%
41	7.299	933	937	938	rVV	137310	153318	3.24%	0.284%
42	7.336	938	944	953	rVB2	2286981	3254865	68.72%	6.027%
43	7.464	963	968	973	rBV3	75816	135185	2.85%	0.250%
44	7.518	973	978	985	rVB4	76057	143514	3.03%	0.266%
45	7.582	985	990	995	rVB4	45093	66163	1.40%	0.123%
46	7.689	1003	1010	1018	rVB6	93051	243532	5.14%	0.451%
47	7.898	1044	1049	1061	rVB3	160488	372196	7.86%	0.689%
48	7.994	1061	1067	1075	rVB7	41637	89737	1.89%	0.166%
49	8.090	1080	1085	1088	rBV2	32815	50842	1.07%	0.094%
50	8.203	1101	1106	1111	rBV4	57353	83277	1.76%	0.154%
51	8.406	1134	1144	1148	rBV	2672589	4345673	91.75%	8.047%
52	8.454	1148	1153	1159	rVB	1443134	2100083	44.34%	3.889%
53	8.577	1171	1176	1184	rVB4	83180	166495	3.52%	0.308%
54	8.695	1192	1198	1202	rBV4	78800	116492	2.46%	0.216%
55	8.834	1220	1224	1231	rVB3	41650	70192	1.48%	0.130%
56	8.898	1231	1236	1242	rBV3	36329	67223	1.42%	0.124%
57	8.973	1246	1250	1259	rVB9	25832	53946	1.14%	0.100%
58	9.401	1316	1330	1339	rBV	161919	549186	11.60%	1.017%
59	9.476	1342	1344	1353	rVB5	57349	101100	2.13%	0.187%
60	9.572	1353	1362	1367	rBV5	50980	142897	3.02%	0.265%
61	9.647	1372	1376	1382	rBV7	32558	55076	1.16%	0.102%
62	9.850	1402	1414	1427	rBV	1745150	3098135	65.41%	5.737%
63	9.941	1427	1431	1439	rVB	69163	128342	2.71%	0.238%
64	10.101	1451	1461	1469	rBV4	58619	162752	3.44%	0.301%
65	10.251	1484	1489	1502	rVB8	37798	88500	1.87%	0.164%
66	10.791	1586	1590	1603	rVB7	28023	64209	1.36%	0.119%
67	11.187	1654	1664	1680	rVB2	1822004	3265050	68.94%	6.046%
68	11.711	1753	1762	1772	rVB4	22975	57331	1.21%	0.106%
69	12.567	1910	1922	1939	rBV	202658	395540	8.35%	0.732%
70	14.214	2223	2230	2242	rBV3	63629	121264	2.56%	0.225%
71	14.557	2280	2294	2306	rBV	1429900	2521353	53.23%	4.669%

LSC Area Percent Report

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Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On    :  9 Oct 2009   2:01 pm
Operator  : sheilac
Sample    : t39314-3
Misc      : op13205,Ej631,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 23000 Area counts
Start Thrs: 0.2                           Max Peaks: 100
Stop Thrs : 0                        Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

72	16.702	2685	2695	2713	rBV	754070	1510636	31.89%	2.797%
73	18.750	3070	3078	3087	rBV2	49835	80187	1.69%	0.148%
74	19.515	3210	3221	3237	rBV	448128	1008585	21.29%	1.868%

Sum of corrected areas: 54003277

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On    :  9 Oct 2009   2:01 pm
Operator  : sheilac
Sample    : t39314-3
Misc      : op13205,Ej631,1000,,,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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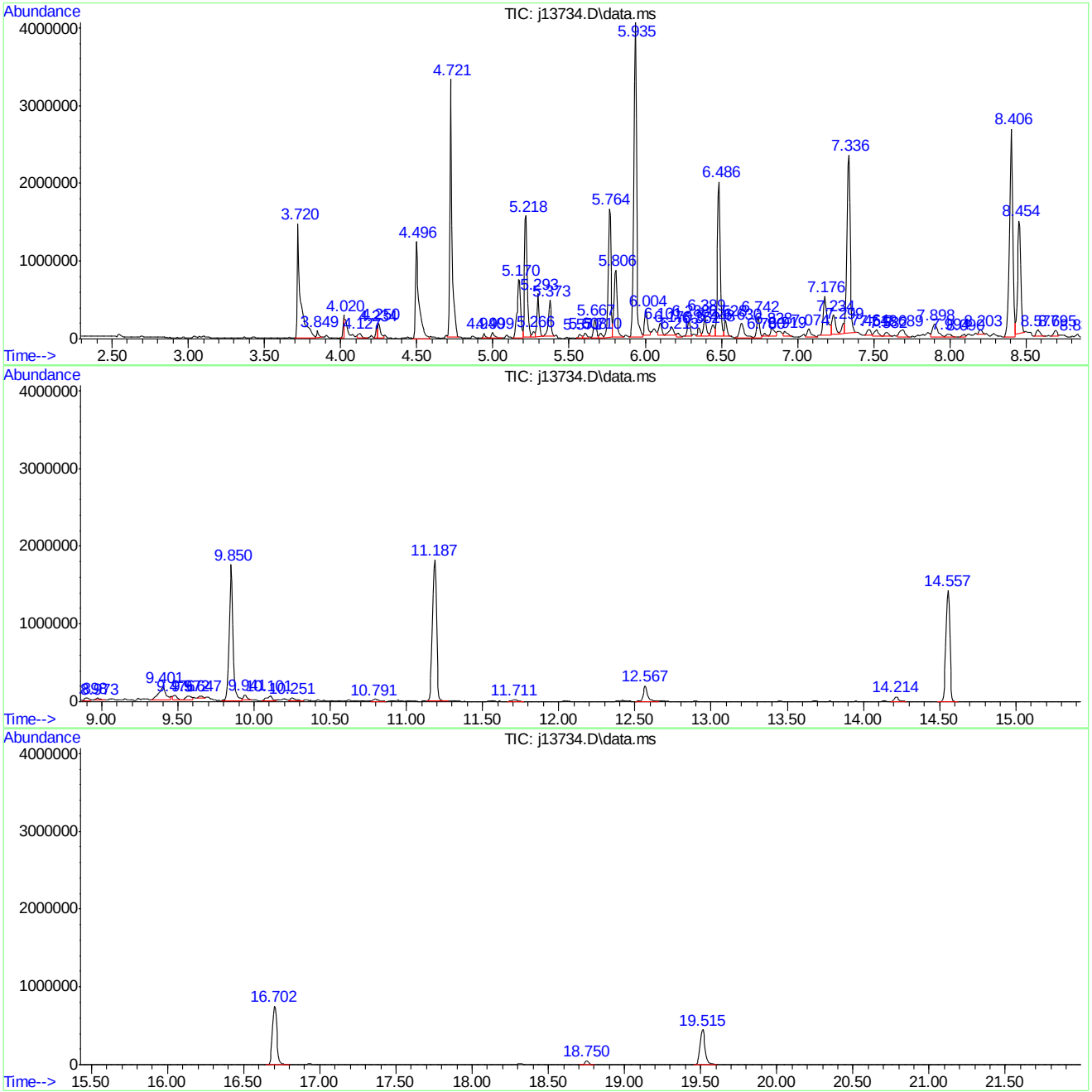

Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On    :  9 Oct 2009   2:01 pm
Operator  : sheilac
Sample    : t39314-3
Misc      : op13205,Ej631,1000,,,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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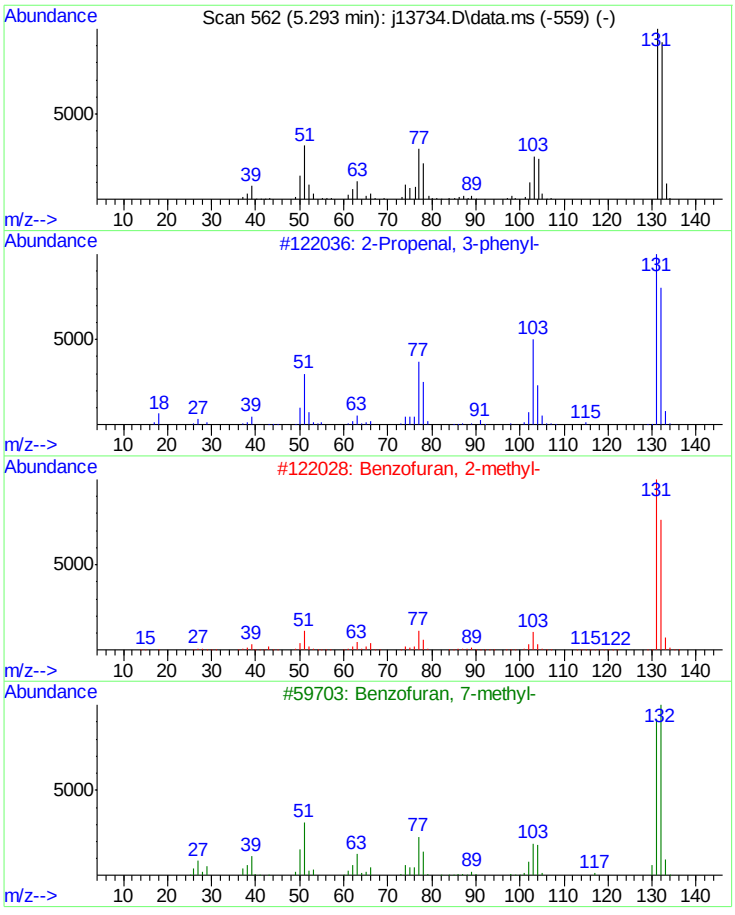
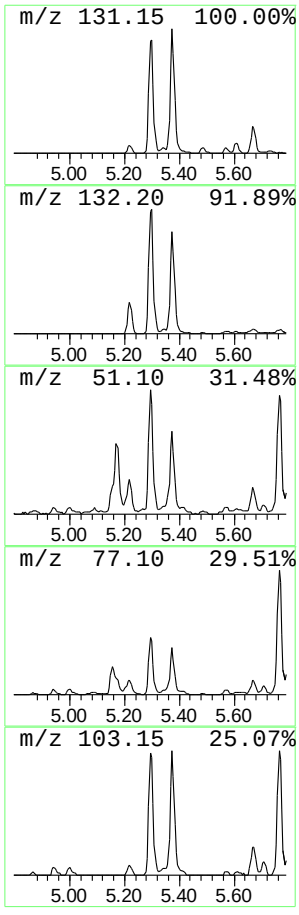
****

Peak Number 1 2-Propenal, 3-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.293	6.83 ug/ml	631503	1,4-Dichlorobenzene-d4	4.721

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	93
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
3	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	91
4	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

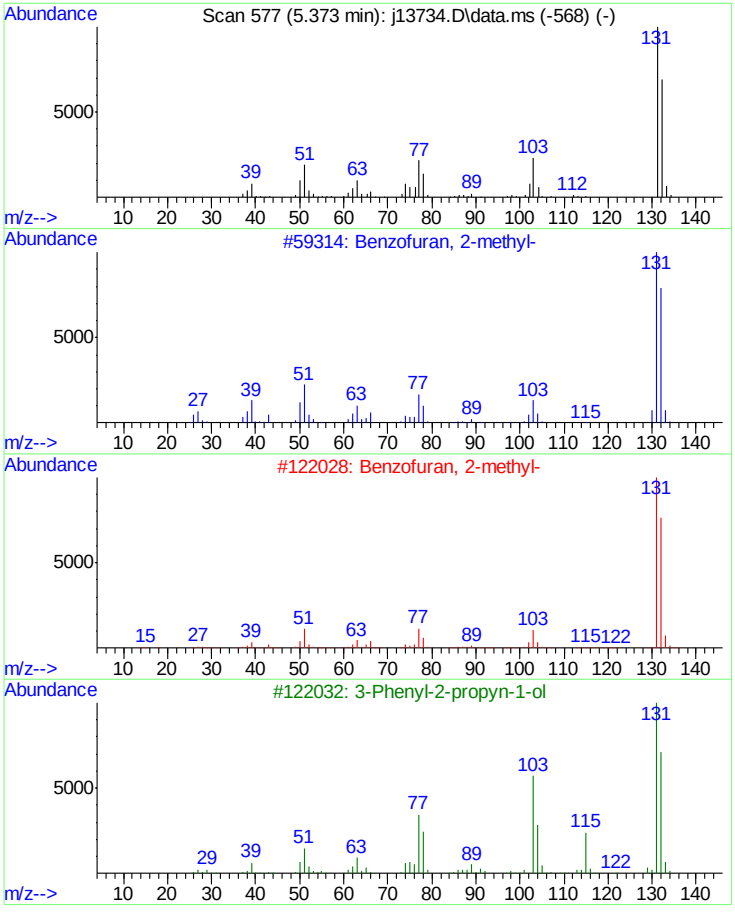
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

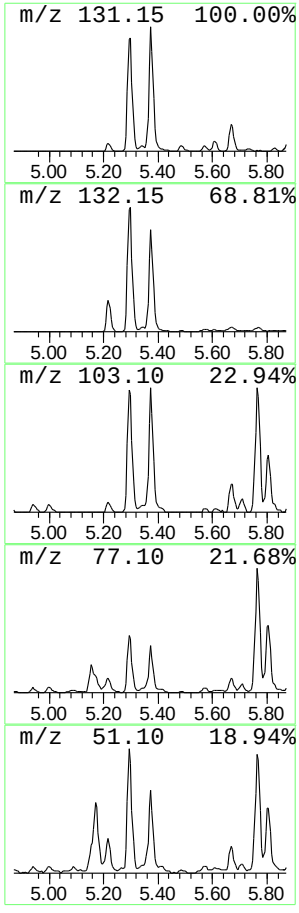
****

Peak Number 2 Benzofuran, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.373	5.03 ug/ml	595743	Naphthalene-d8	5.935

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	94
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
3	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
4	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90
5	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

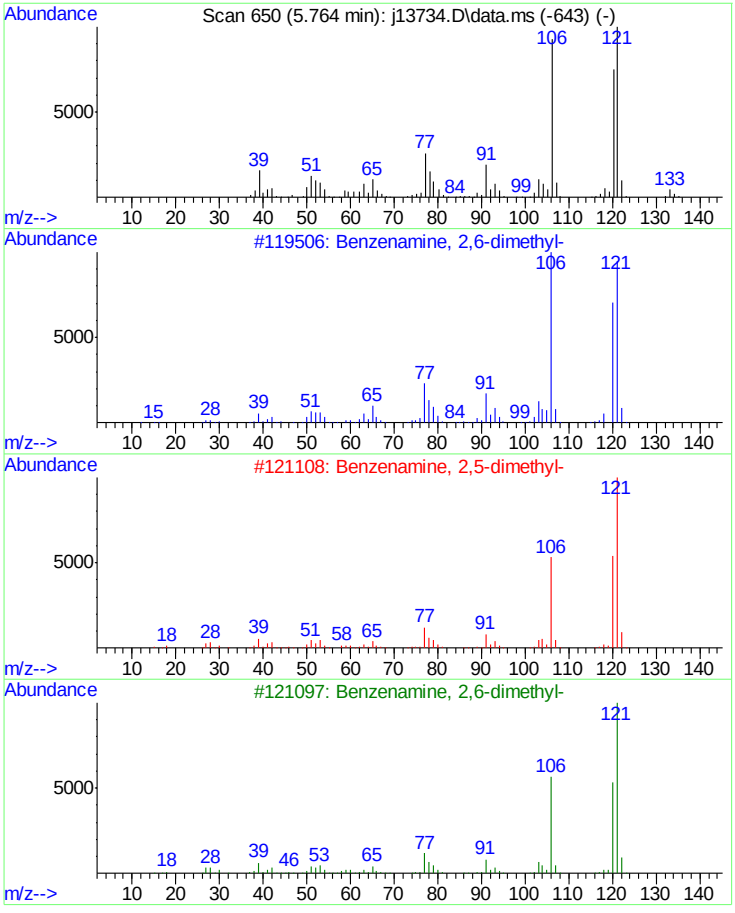
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

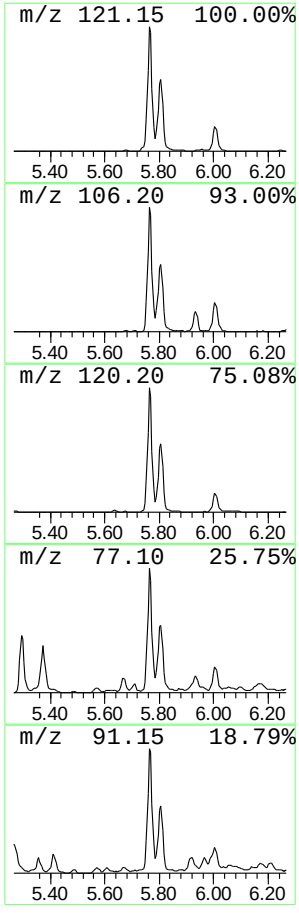
****

Peak Number 3 Benzenamine, 2,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.764	17.07 ug/ml	2021290	Naphthalene-d8	5.935

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2,6-dimethyl-	121	C8H11N	000087-62-7	97
2	Benzenamine, 2,5-dimethyl-	121	C8H11N	000095-78-3	97
3	Benzenamine, 2,6-dimethyl-	121	C8H11N	000087-62-7	97
4	Benzenamine, 2,4-dimethyl-	121	C8H11N	000095-68-1	97
5	Benzenamine, 2,5-dimethyl-	121	C8H11N	000095-78-3	96





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

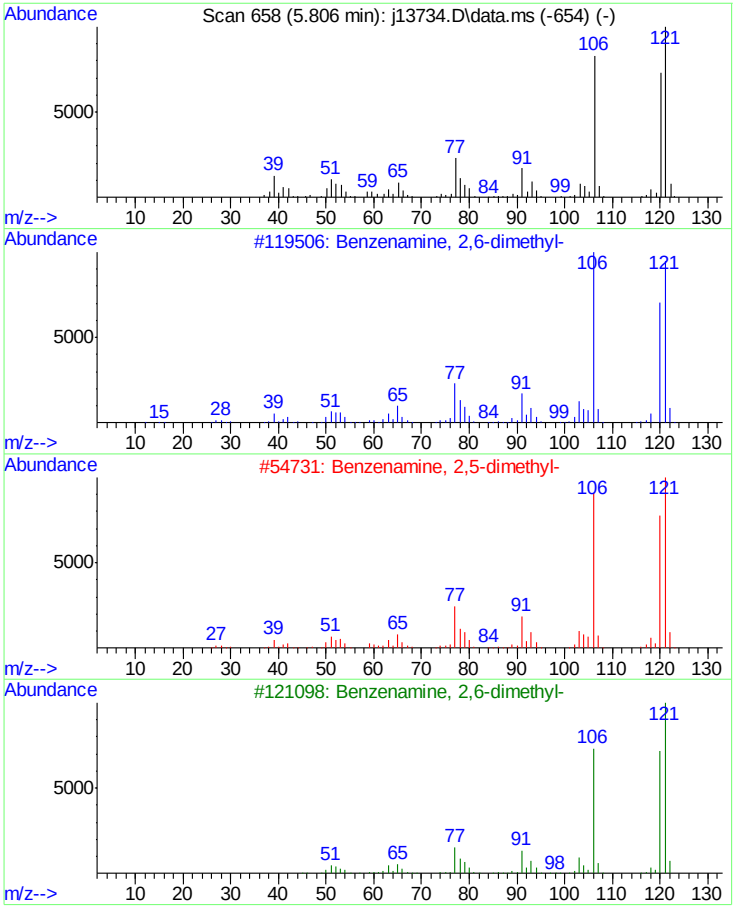
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

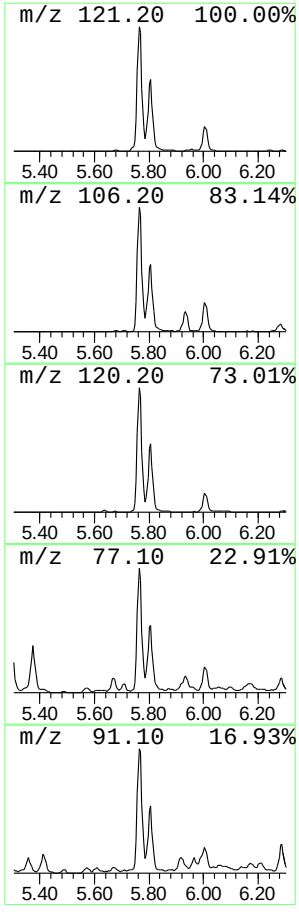
****

Peak Number 4 Benzenamine, 2,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.806	9.51 ug/ml	1125520	Naphthalene-d8	5.935

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2,6-dimethyl-	121	C8H11N	000087-62-7	97
2	Benzenamine, 2,5-dimethyl-	121	C8H11N	000095-78-3	97
3	Benzenamine, 2,6-dimethyl-	121	C8H11N	000087-62-7	97
4	Benzenamine, 2,3-dimethyl-	121	C8H11N	000087-59-2	95
5	Benzenamine, 2,4-dimethyl-	121	C8H11N	000095-68-1	95





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

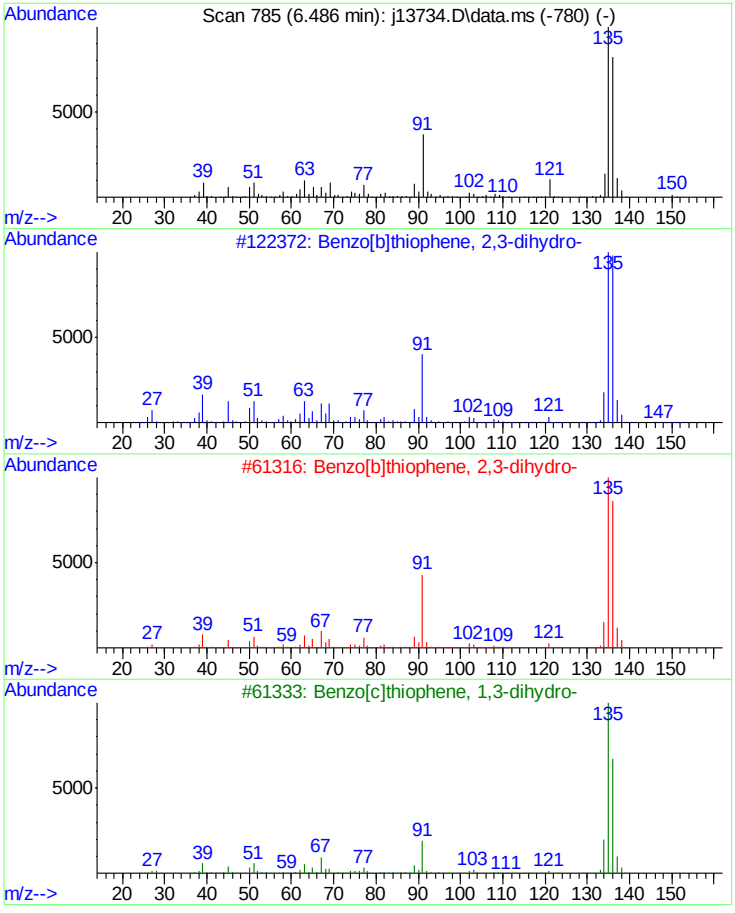
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

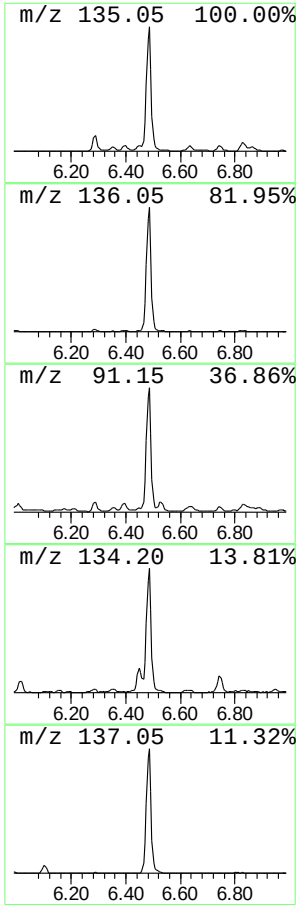
****

Peak Number 5 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.486	20.99 ug/ml	2485790	Naphthalene-d8	5.935

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	91
2	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	91
3	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S	002471-92-3	81
4	Benzaldehyde, 4-methoxy-	136	C8H8O2	000123-11-5	80
5	Benzaldehyde, 4-methoxy-	136	C8H8O2	000123-11-5	80





ACCUTEST Laboratories T39314

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

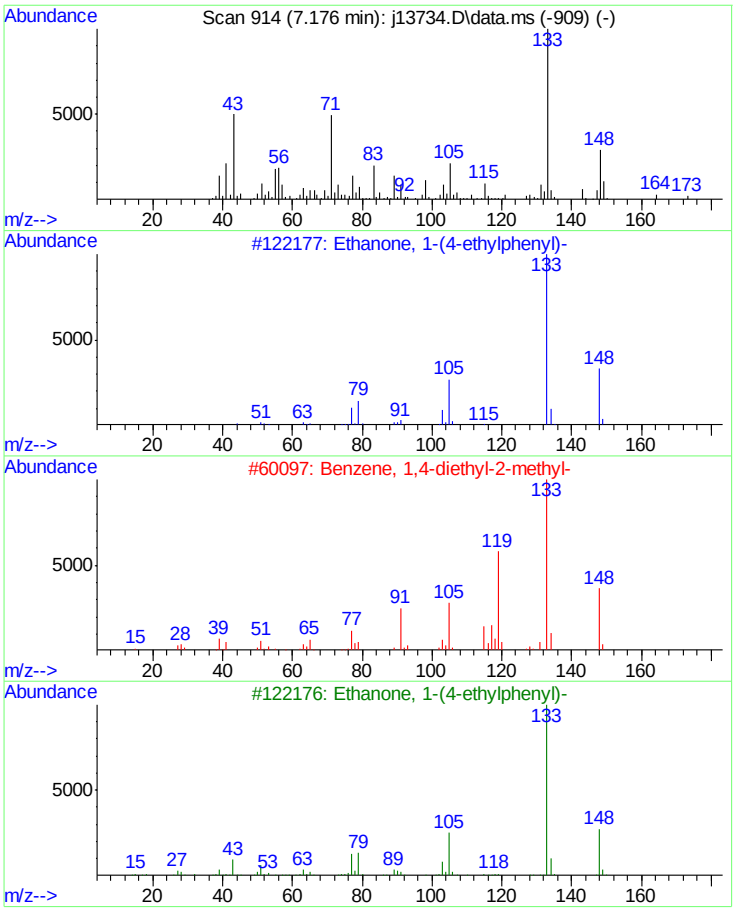
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

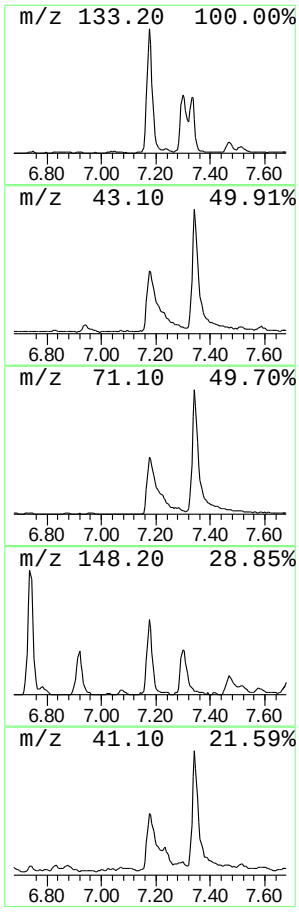
****

Peak Number 6 Ethanone, 1-(4-ethylphenyl)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.176	9.04 ug/ml	982566	Acenaphthene-d10	8.406

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(4-ethylphenyl)-	148	C10H12O	000937-30-4	49
2	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	46
3	Ethanone, 1-(4-ethylphenyl)-	148	C10H12O	000937-30-4	46
4	4-tert-Butyltoluene	148	C11H16	000098-51-1	43
5	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	43





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On    :  9 Oct 2009   2:01 pm
Operator  : sheilac
Sample    : t39314-3
Misc      : op13205,Ej631,1000,,,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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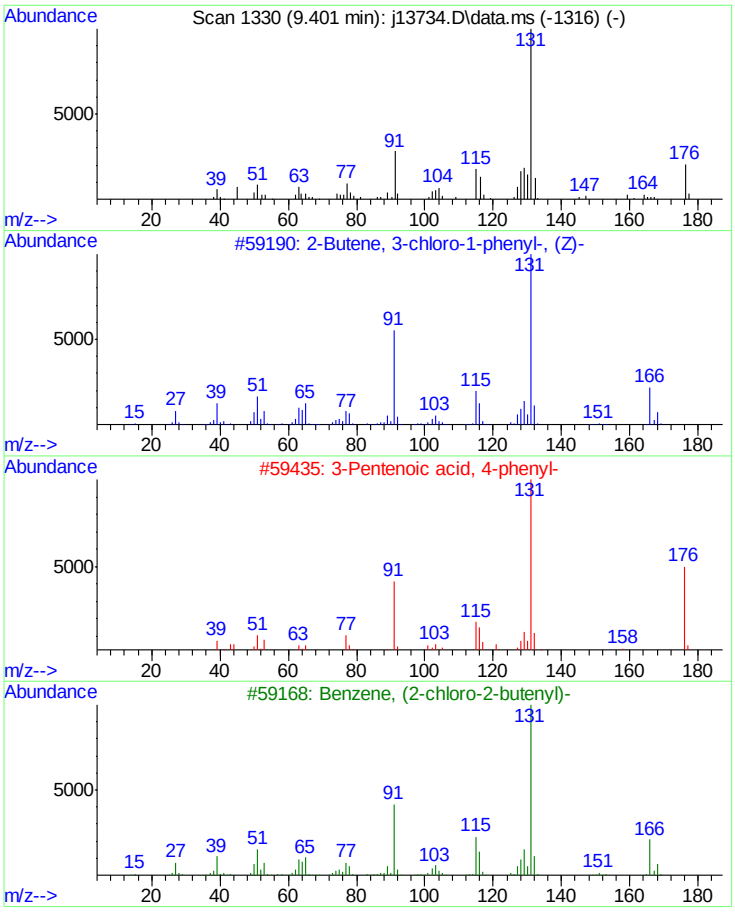
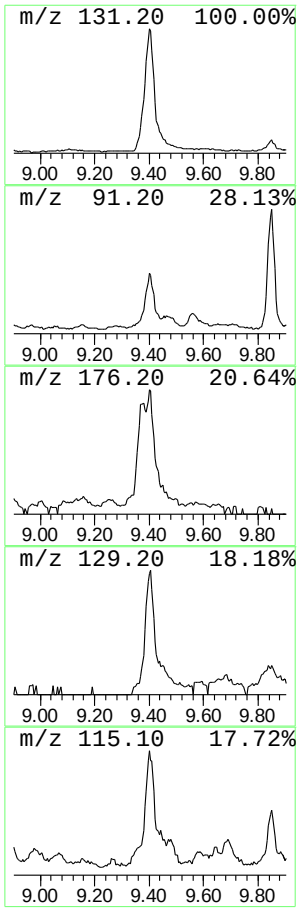
****

Peak Number 7 2-Butene, 3-chloro-1-phenyl... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.401	5.06 ug/ml	549186	Acenaphthene-d10	8.406

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	81
2	3-Pentenoic acid, 4-phenyl-	176	C11H12O2	053774-19-9	78
3	Benzene, (2-chloro-2-butenyl)-	166	C10H11Cl	054411-12-0	74
4	Propanedinitrile, (2,3-dihydro-1...	196	C13H12N2	069564-96-1	64
5	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	64





ACCUTEST Laboratories T39314

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

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

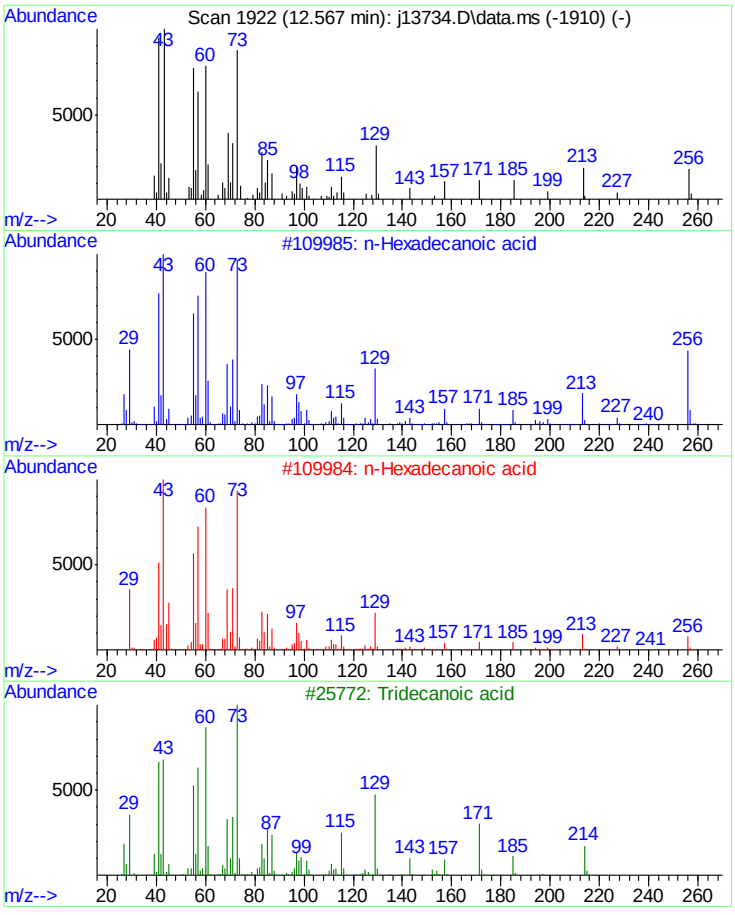
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

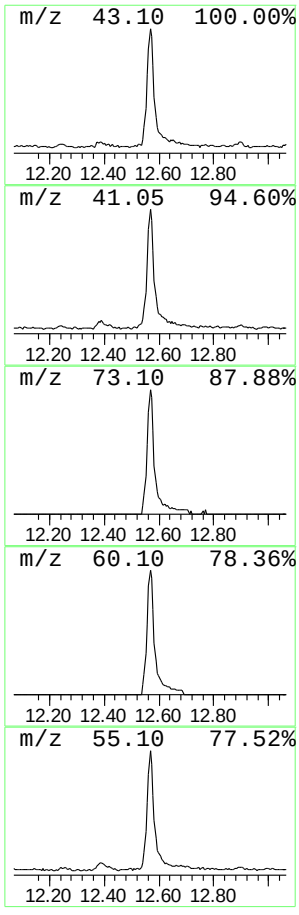
****

Peak Number 8 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.567	4.85 ug/ml	395540	Phenanthrene-d10	11.187

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	Tridecanoic acid	214	C13H26O2	000638-53-9	94
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	81
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	68





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13734.D
Acq On : 9 Oct 2009 2:01 pm
Operator : sheilac
Sample : t39314-3
Misc : op13205,Ej631,1000,,,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-Propenal, 3-p...	5.293	6.8	ug/ml	631503	1	4.721	3699030	40.0
Benzofuran, 2-m...	5.373	5.0	ug/ml	595743	2	5.935	4736340	40.0
Benzenamine, 2,...	5.764	17.1	ug/ml	2021290	2	5.935	4736340	40.0
Benzenamine, 2,...	5.806	9.5	ug/ml	1125520	2	5.935	4736340	40.0
Benzo[b]thiophe...	6.486	21.0	ug/ml	2485790	2	5.935	4736340	40.0
Ethanone, 1-(4-...	7.176	9.0	ug/ml	982566	3	8.406	4345670	40.0
2-Butene, 3-chl...	9.401	5.1	ug/ml	549186	3	8.406	4345670	40.0
n-Hexadecanoic ...	12.567	4.8	ug/ml	395540	4	11.187	3265050	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 09 14:45:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

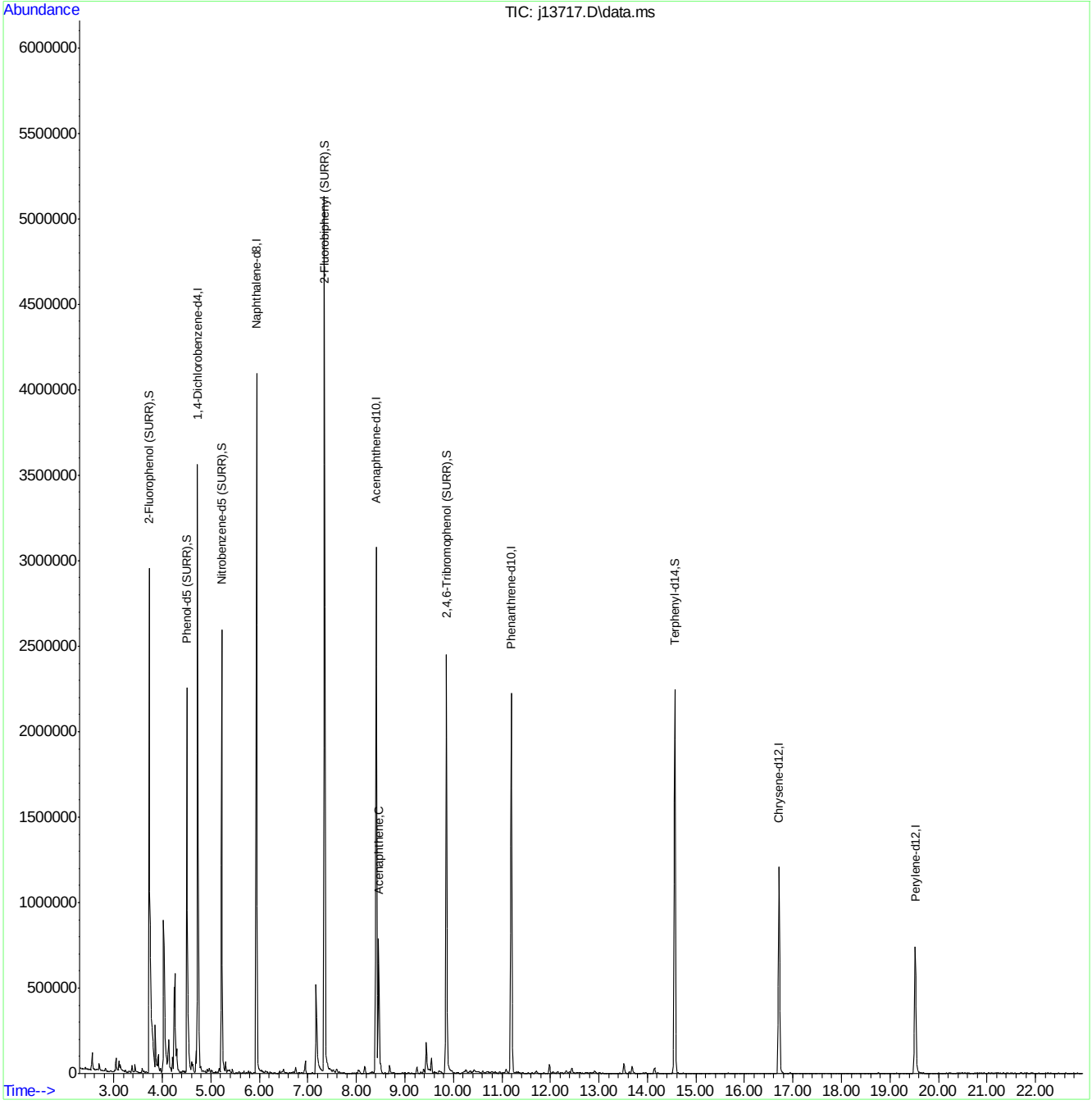
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	565530	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	1984320	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1031887	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1390208	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	890309	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	600844	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.726	112	1103546	62.18	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery = 62.18%			
5) Phenol-d5 (SURR)	4.501	99	966022	43.55	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 43.55%			
21) Nitrobenzene-d5 (SURR)	5.223	82	919676	44.20	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 88.40%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1638915	40.77	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 81.54%			
62) 2,4,6-Tribromophenol (...	9.860	330	437148	93.46	ug/ml	-0.10
Spiked Amount 100.000	Range 32 - 128		Recovery = 93.46%			
74) Terphenyl-d14	14.567	244	1142521	53.74	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 107.48%			
Target Compounds						Qvalue
47) Acenaphthene	8.459	154	265332	9.24	ug/ml	99

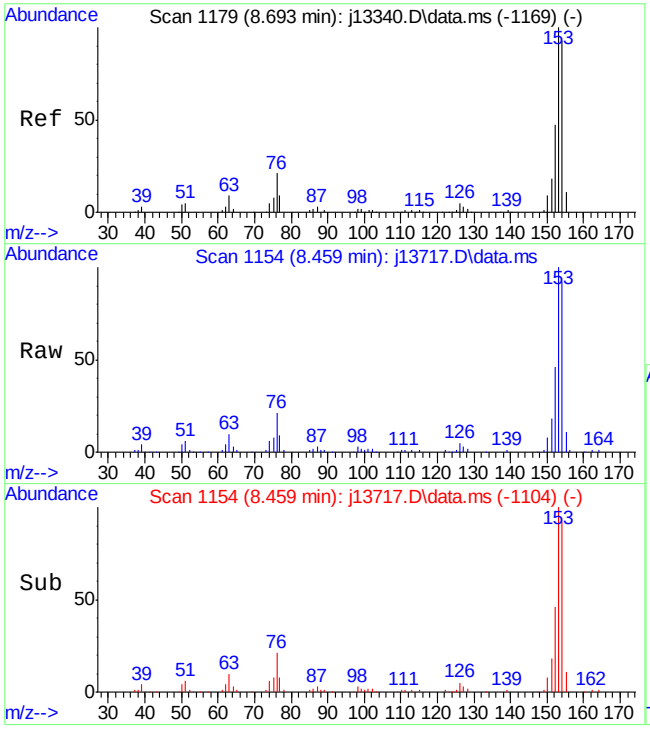
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 09 14:45:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

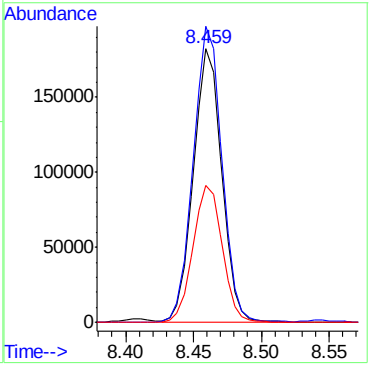




#47
Acenaphthene
Concen: 9.24 ug/ml
RT: 8.459 min Scan# 1154
Delta R.T. -0.234 min
Lab File: j13717.D
Acq: 9 Oct 2009 1:58 am

Tgt Ion:154 Resp: 265332

Ion	Ratio	Lower	Upper
154	100		
153	109.3	87.9	127.9
152	51.2	31.3	71.3



8.1.7

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 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: j13717.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	47	49	57	rBV	100541	100390	1.48%	0.188%
2	3.041	138	141	147	rBV	77867	77679	1.14%	0.145%
3	3.726	265	269	290	rBV	2952075	4712225	69.38%	8.817%
4	3.854	290	293	298	rVV	274787	314226	4.63%	0.588%
5	3.913	302	304	310	rVB	101149	96218	1.42%	0.180%
6	4.025	322	325	327	rBV	868611	902657	13.29%	1.689%
7	4.132	339	345	356	rVB2	185720	348881	5.14%	0.653%
8	4.207	356	359	362	rBV	85825	84309	1.24%	0.158%
9	4.239	362	365	367	rVV	486261	484823	7.14%	0.907%
10	4.255	367	368	373	rVV	568108	526030	7.74%	0.984%
11	4.298	373	376	381	rVB	124954	140714	2.07%	0.263%
12	4.501	410	414	430	rBV	2251623	3081295	45.36%	5.766%
13	4.694	446	450	452	rBV	127050	128034	1.89%	0.240%
14	4.726	452	456	466	rVB	3533634	3787496	55.76%	7.087%
15	5.223	544	549	560	rBV	2589369	3005274	44.25%	5.623%
16	5.303	560	564	569	rVB	63905	71794	1.06%	0.134%
17	5.940	676	683	692	rBV	4094163	4688665	69.03%	8.773%
18	6.945	863	871	879	rVB2	72666	107998	1.59%	0.202%
19	7.170	907	913	938	rBV	518437	1010619	14.88%	1.891%
20	7.341	938	945	963	rVV	5118409	6792231	100.00%	12.709%
21	8.170	1091	1100	1107	rVB2	43228	71617	1.05%	0.134%
22	8.411	1136	1145	1150	rBV	3075443	4674879	68.83%	8.747%
23	8.459	1150	1154	1159	rVV	787516	1147185	16.89%	2.147%
24	8.497	1159	1161	1174	rVB2	59497	70194	1.03%	0.131%
25	8.684	1189	1196	1204	rBV	47558	70701	1.04%	0.132%
26	9.443	1332	1338	1344	rBV	177375	291965	4.30%	0.546%
27	9.545	1353	1357	1363	rVB2	91529	120715	1.78%	0.226%
28	9.855	1407	1415	1436	rBV	2446699	4235823	62.36%	7.926%
29	11.192	1654	1665	1682	rBV2	2220977	4003113	58.94%	7.491%
30	11.979	1806	1812	1819	rBV	54824	76760	1.13%	0.144%
31	13.514	2092	2099	2112	rBV5	58465	106590	1.57%	0.199%
32	13.685	2124	2131	2137	rBV	41285	71879	1.06%	0.134%
33	14.567	2282	2296	2309	rBV2	2247275	3953376	58.20%	7.397%
34	16.712	2687	2697	2715	rBV	1207232	2449333	36.06%	4.583%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On    :  9 Oct 2009   1:58 am
Operator  : sheilac
Sample    : t39314-4
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 16   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     :

35  19.520  3211 3222 3236 rBV   743224   1636811  24.10%   3.063%


                        Sum of corrected areas:    53442499
```

8.1.8

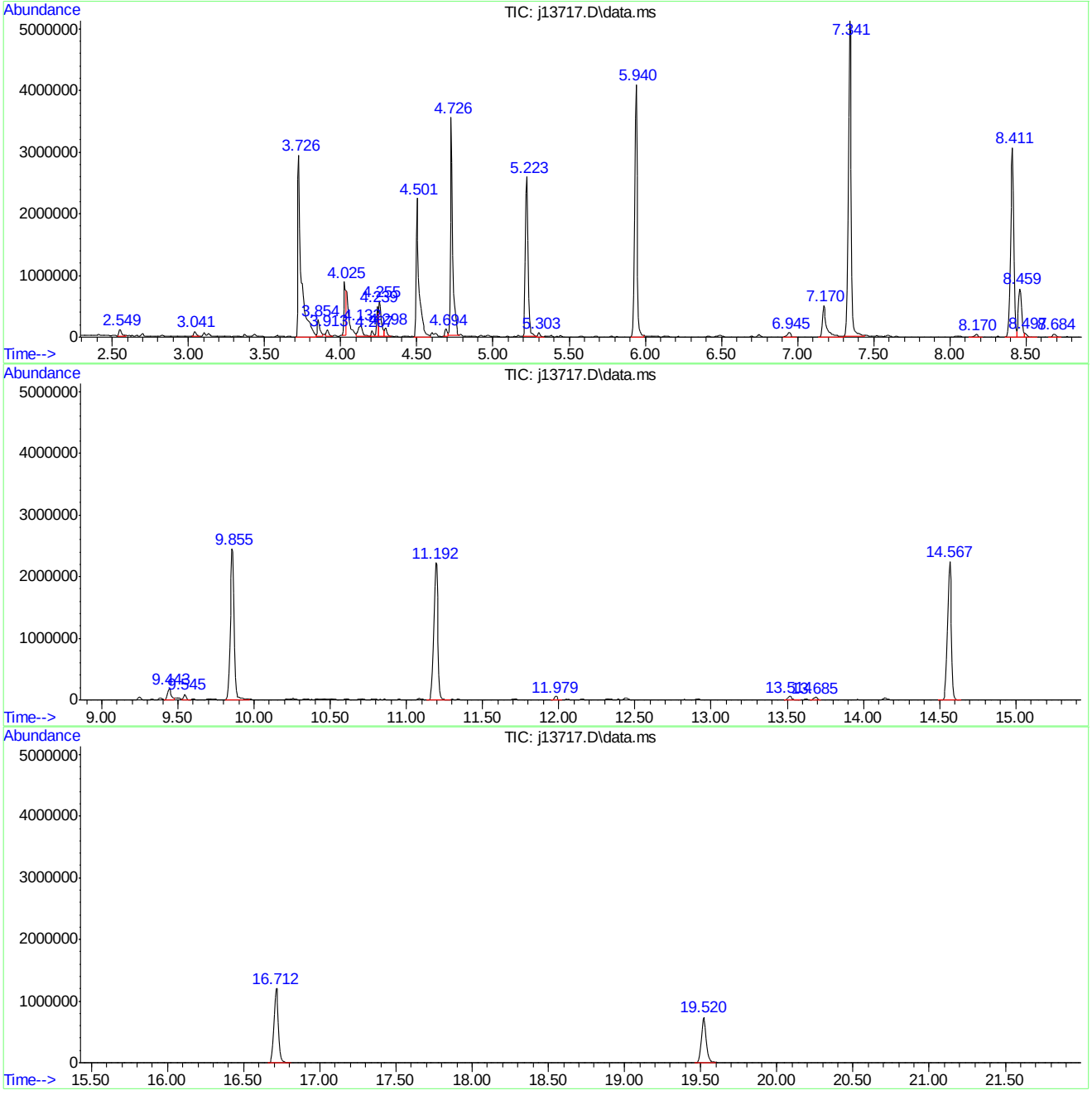
8

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

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

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



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

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

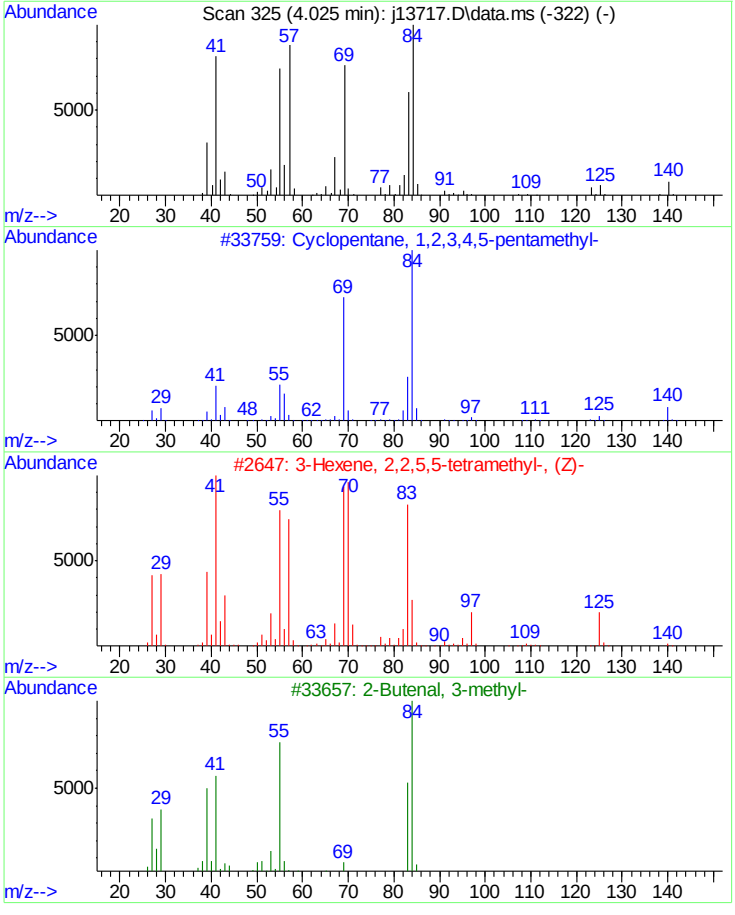
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

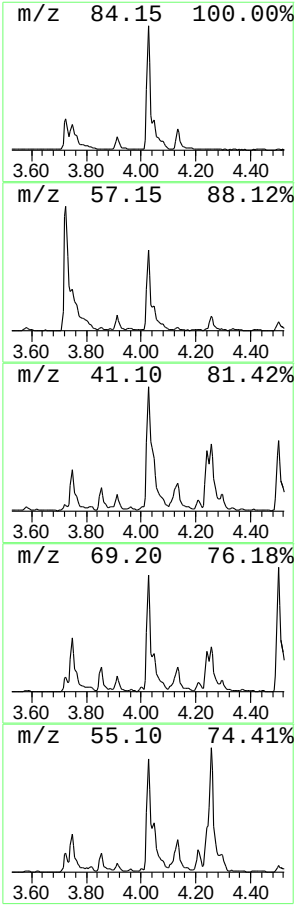
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	9.53 ug/ml	902657	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	53
2	3-Hexene, 2,2,5,5-tetramethyl-, ...	140	C10H20	000692-47-7	43
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
4	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	38
5	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

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

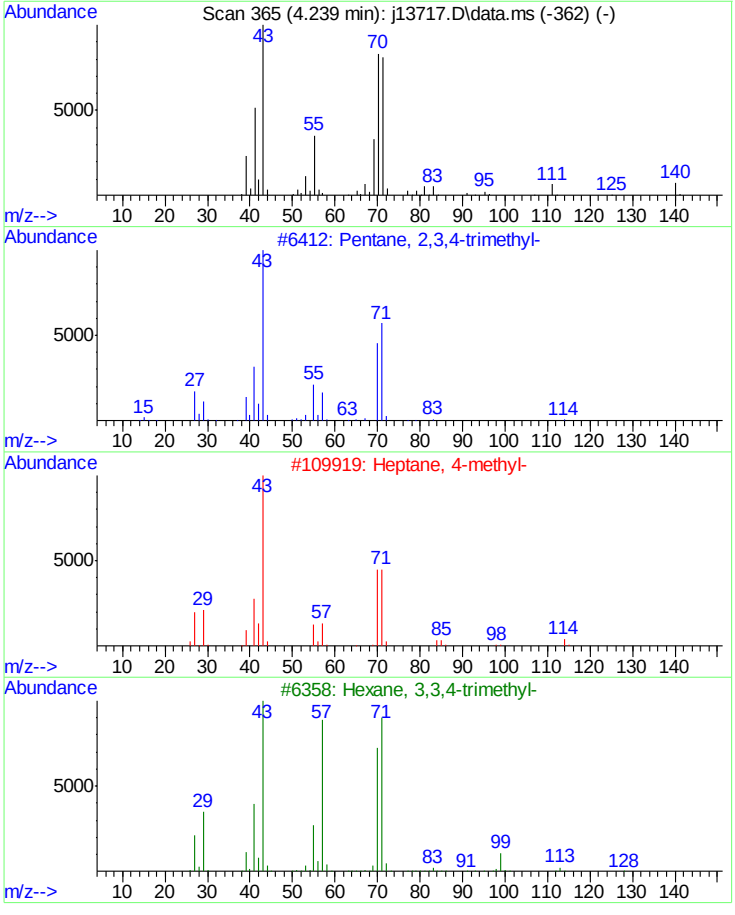
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

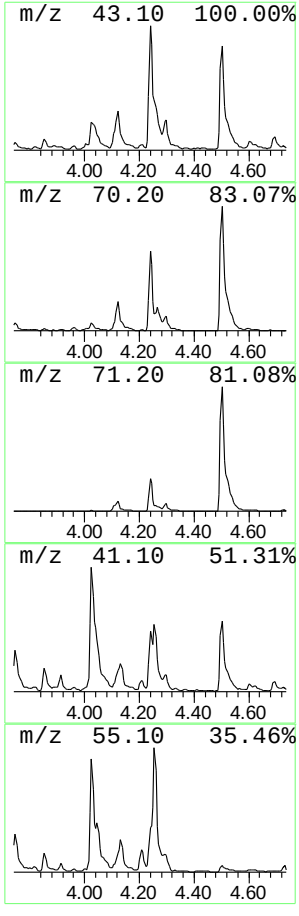
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	5.12 ug/ml	484823	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	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
3	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	64
4	Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	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 : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

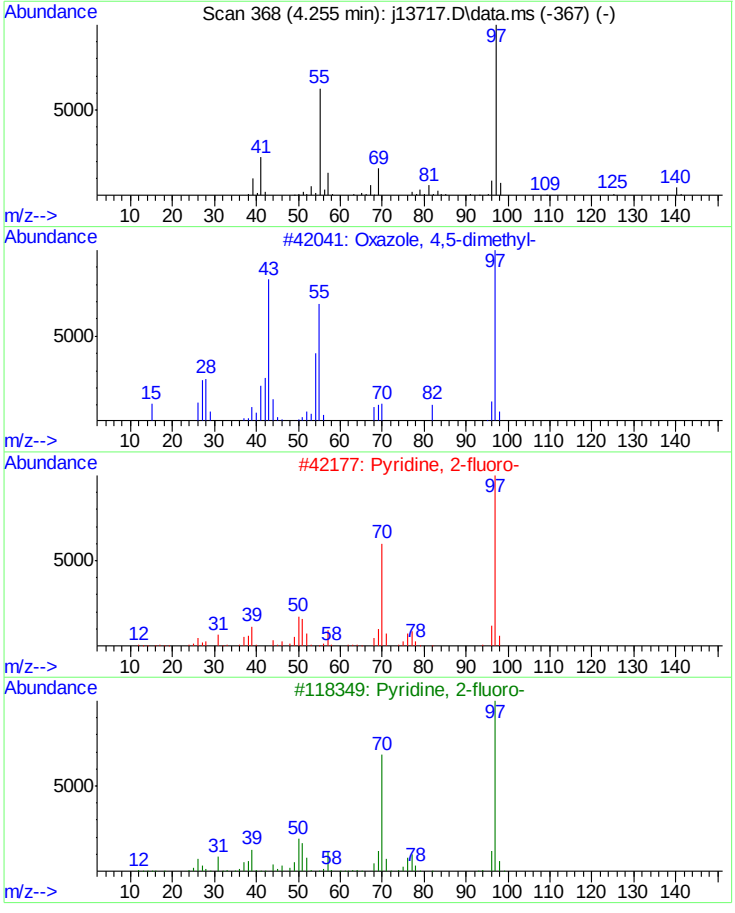
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

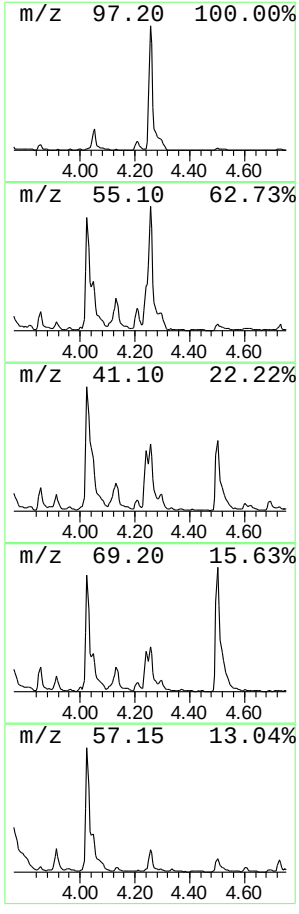
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	5.56 ug/ml	526030	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	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
4	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	64
5	Cyclopropane, 3-chloro-1,1,2,2-t...	132	C7H13Cl	014123-41-2	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

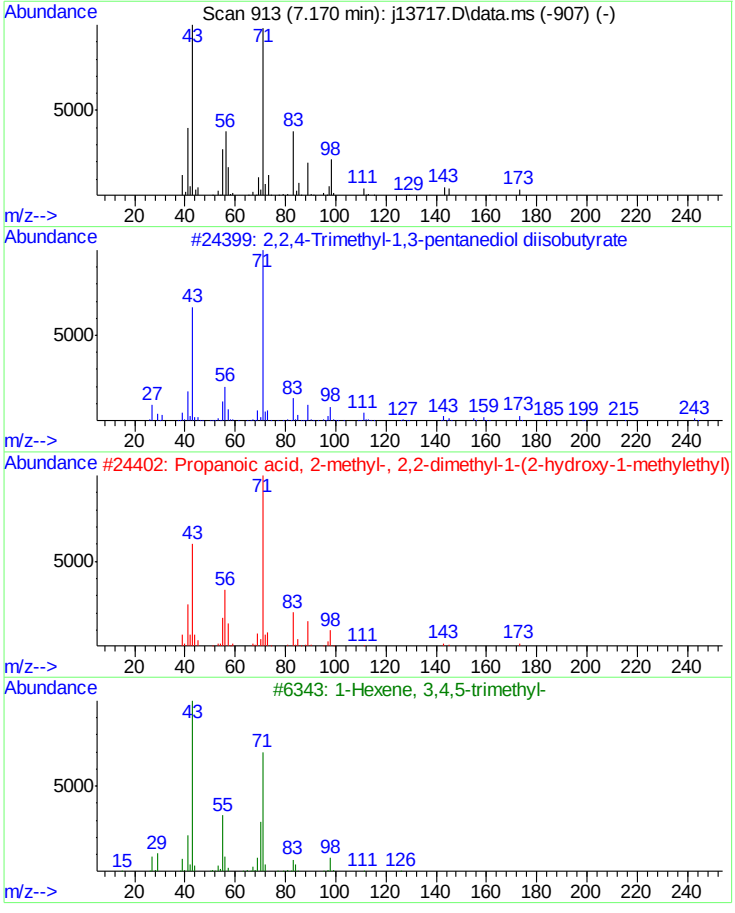
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

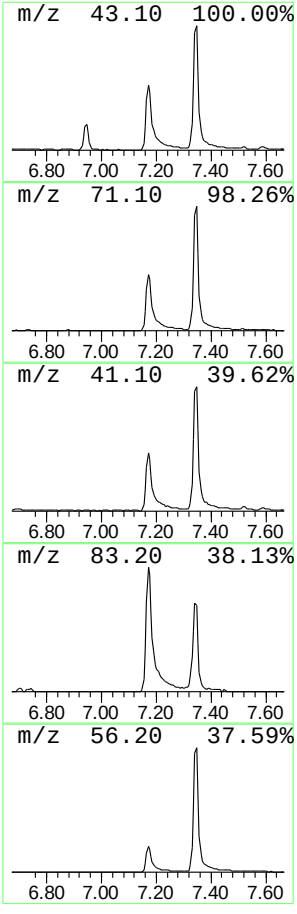
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	8.62 ug/ml	1010620	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	45
3	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43
4	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	38
5	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	37





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13717.D
Acq On : 9 Oct 2009 1:58 am
Operator : sheilac
Sample : t39314-4
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

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

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Cyclopentane, 1...	4.025	9.5	ug/ml	902657	1	4.726	3787500	40.0
Pentane, 2,3,4-...	4.239	5.1	ug/ml	484823	1	4.726	3787500	40.0
Oxazole, 4,5-di...	4.255	5.6	ug/ml	526030	1	4.726	3787500	40.0
2,2,4-Trimethyl...	7.170	8.6	ug/ml	1010620	2	5.940	4688670	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/14/09 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13722.D
Acq On : 9 Oct 2009 4:28 am
Operator : sheilac
Sample : t39314-5,40x
Misc : op13205,Ej630,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 12 16:29:27 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

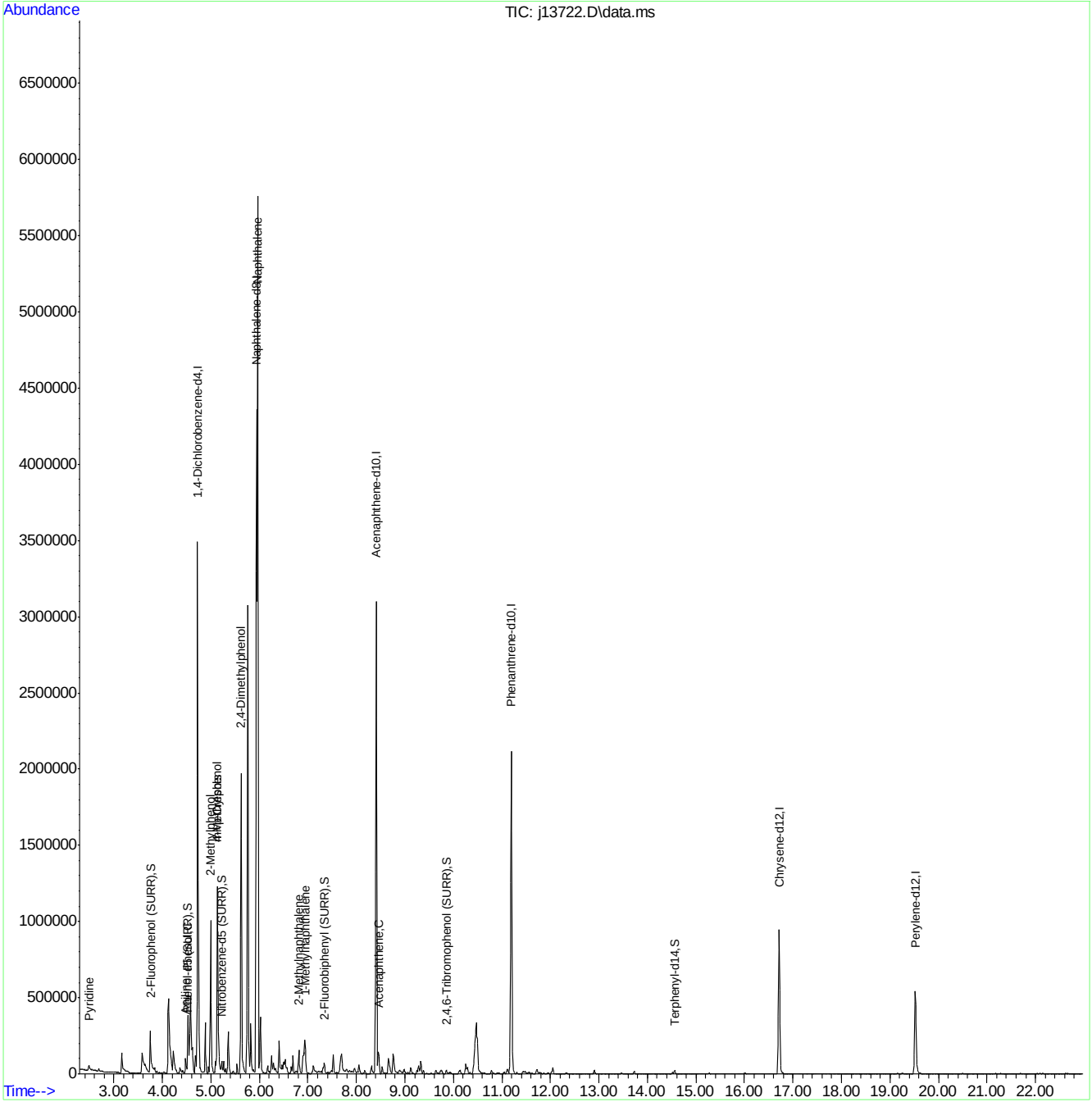
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	566439	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	1986599	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1008291	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1337048	40.00	ug/ml	-0.01
71) Chrysene-d12	16.717	240	720271	40.00	ug/ml	-0.02
80) Perylene-d12	19.525	264	460635	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.752	112	18488	1.04	ug/ml	0.08
Spiked Amount 100.000	Range 10 - 66		Recovery	=	1.04%#	
5) Phenol-d5 (SURR)	4.517	99	17142	0.77	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.77%#	
21) Nitrobenzene-d5 (SURR)	5.223	82	17043	0.82	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.64%#	
40) 2-Fluorobiphenyl (SURR)	7.341	172	29649	1.50	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery	=	3.00%#	
62) 2,4,6-Tribromophenol (...	9.855	330	6198	1.38	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery	=	1.38%#	
74) Terphenyl-d14	14.562	244	18265	1.06	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery	=	2.12%#	
Target Compounds						Qvalue
3) Pyridine	2.485	79	17534	1.04	ug/ml#	73
6) Phenol	4.528	94	169187	7.04	ug/ml#	77
7) Aniline	4.480	93	53940	4.42	ug/ml	93
14) 2-Methylphenol	4.993	108	240424	14.26	ug/ml	100
16) 4-Methylphenol	5.132	108	315764	17.71	ug/ml	90
17) m+p-Cresols	5.132	108	315764	17.71	ug/ml	90
25) 2,4-Dimethylphenol	5.619	122	547668m	35.20	ug/ml	
30) Naphthalene	5.967	128	2749000	50.81	ug/ml	100
34) 2-Methylnaphthalene	6.812	142	54020	1.63	ug/ml	98
35) 1-Methylnaphthalene	6.945	142	69592	2.01	ug/ml	95
47) Acenaphthene	8.459	154	45841	1.63	ug/ml	99

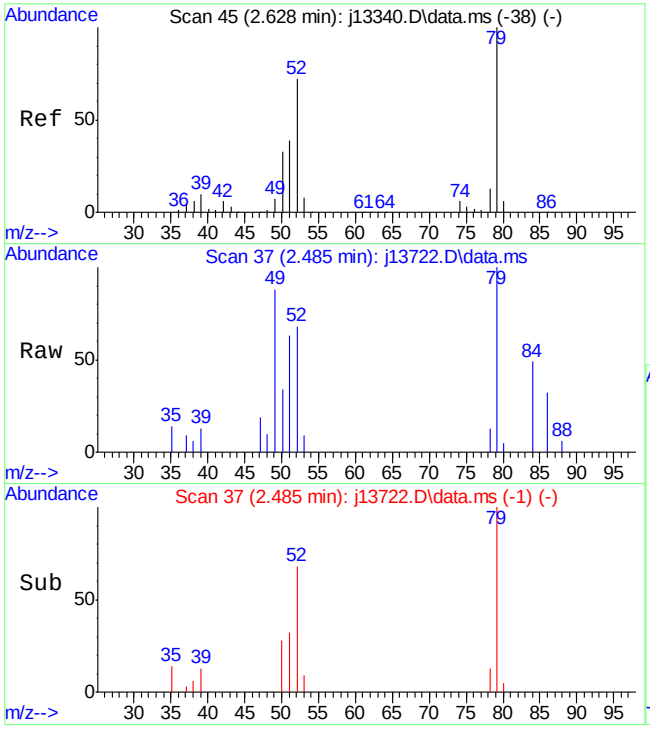
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13722.D
Acq On : 9 Oct 2009 4:28 am
Operator : sheilac
Sample : t39314-5,40x
Misc : op13205,Ej630,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 12 16:29:27 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

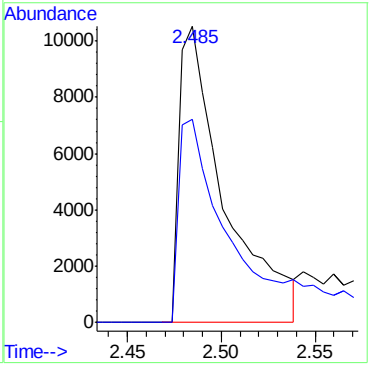


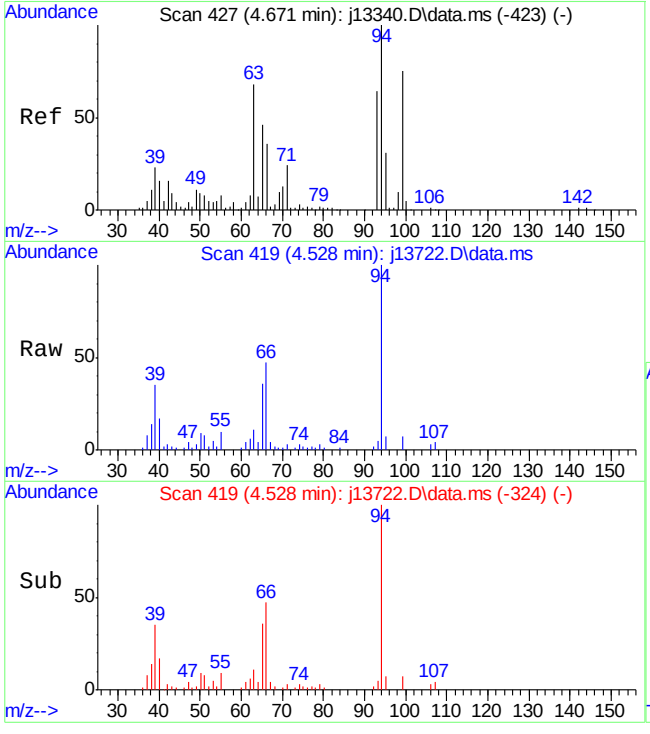


#3
Pyridine
Concen: 1.04 ug/ml
RT: 2.485 min Scan# 37
Delta R.T. 0.053 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion: 79 Resp: 17534

Ion	Ratio	Lower	Upper
79	100		
52	94.9	52.6	92.6#

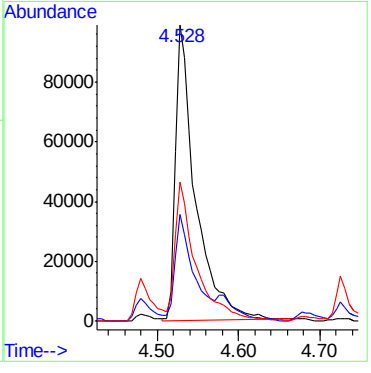


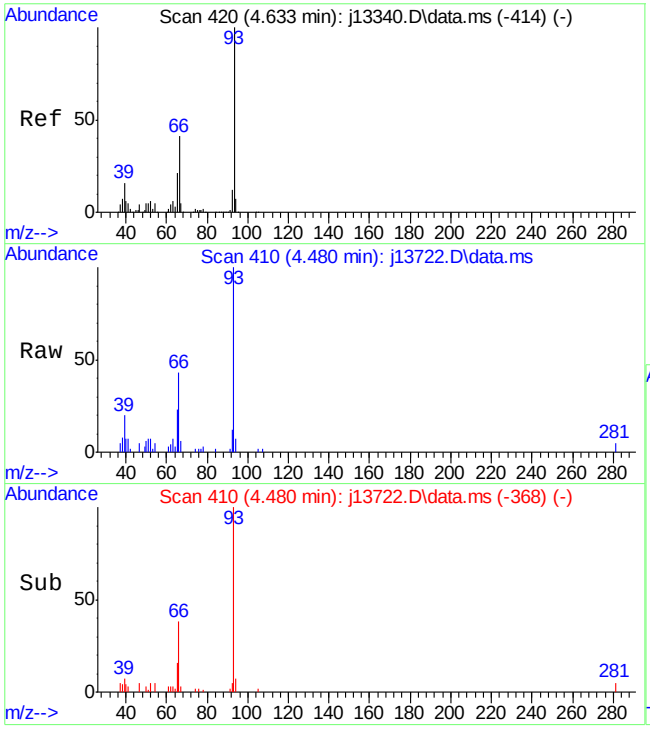


#6
Phenol
Concen: 7.04 ug/ml
RT: 4.528 min Scan# 419
Delta R.T. 0.009 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion: 94 Resp: 169187

Ion	Ratio	Lower	Upper
94	100		
65	29.9	35.3	75.3#
66	49.4	37.4	77.4

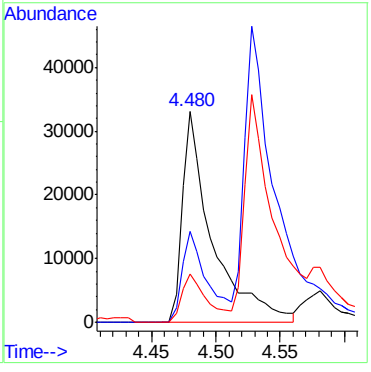


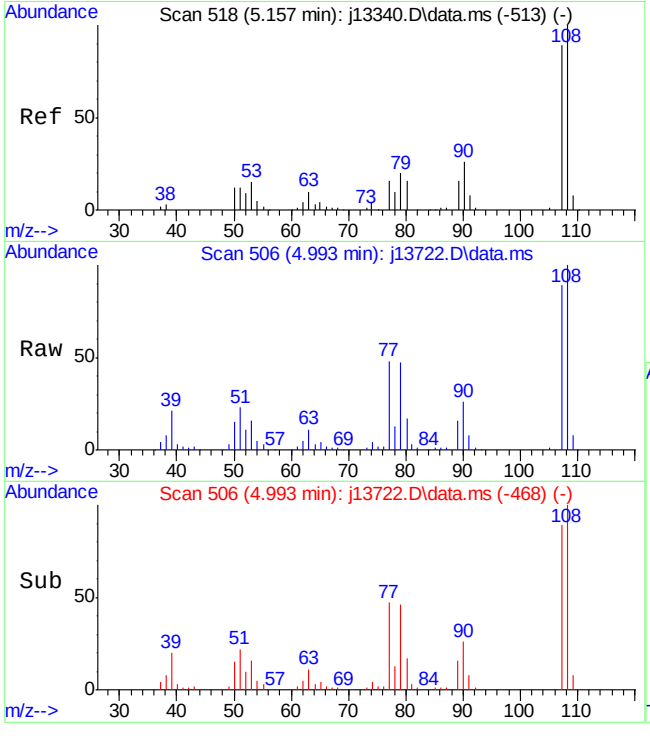


#7
Aniline
Concen: 4.42 ug/ml
RT: 4.480 min Scan# 410
Delta R.T. 0.025 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion: 93 Resp: 53940

Ion	Ratio	Lower	Upper
93	100		
66	36.4	21.2	61.2
65	18.8	2.0	42.0

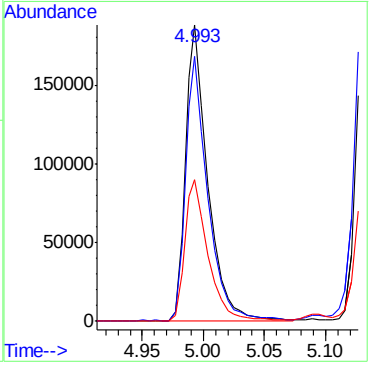


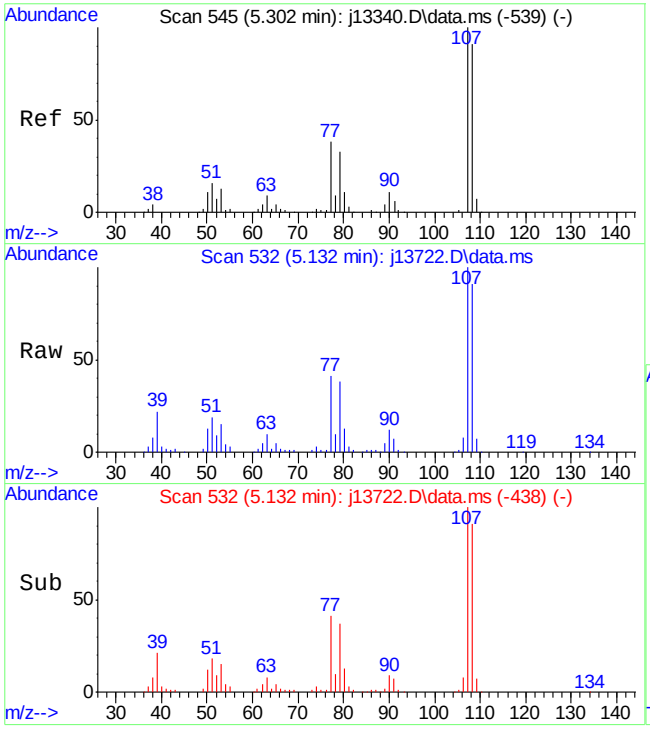


#14
2-Methylphenol
Concen: 14.26 ug/ml
RT: 4.993 min Scan# 506
Delta R.T. 0.001 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:108 Resp: 240424

Ion	Ratio	Lower	Upper
108	100		
107	89.2	69.0	109.0
77	49.8	30.1	70.1

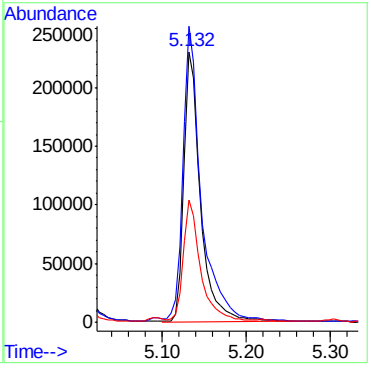


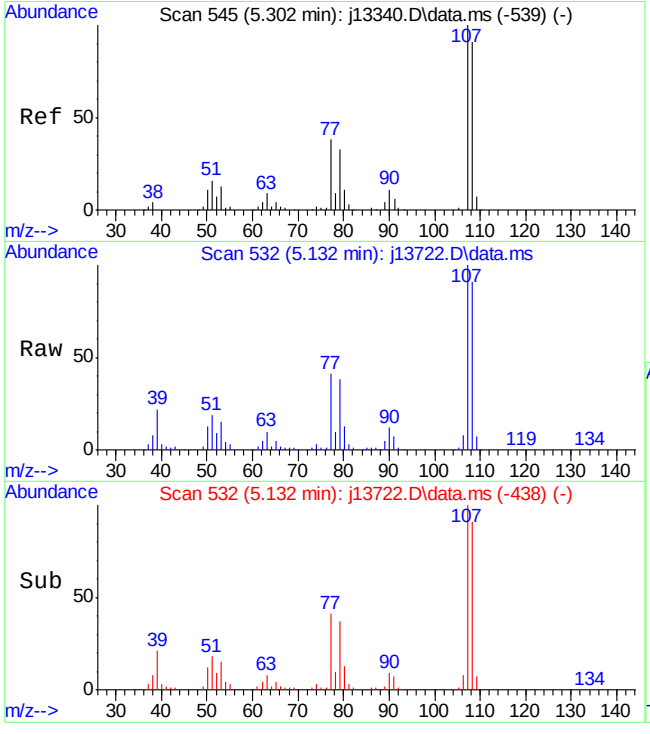


#16
4-Methylphenol
Concen: 17.71 ug/ml
RT: 5.132 min Scan# 532
Delta R.T. 0.003 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:108 Resp: 315764

Ion	Ratio	Lower	Upper
108	100		
107	121.9	90.0	130.0
77	45.4	20.6	60.6

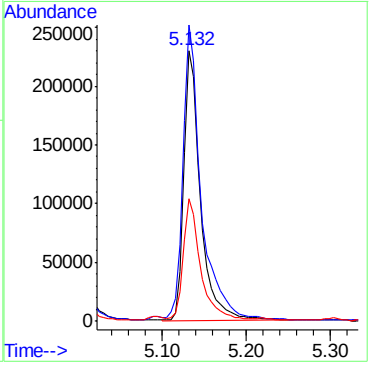




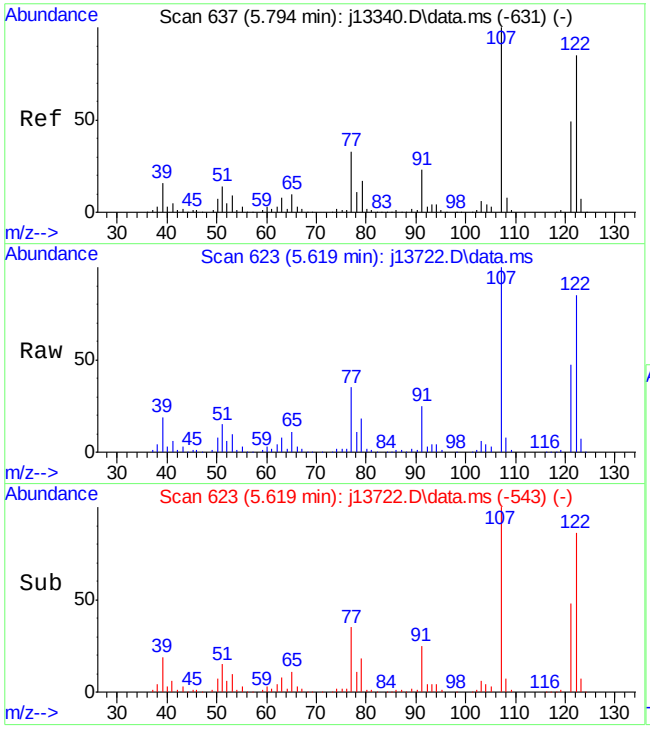
#17
m+p-Cresols
Concen: 17.71 ug/ml
RT: 5.132 min Scan# 532
Delta R.T. 0.003 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:108 Resp: 315764

Ion	Ratio	Lower	Upper
108	100		
107	121.9	90.0	130.0
77	45.4	20.6	60.6



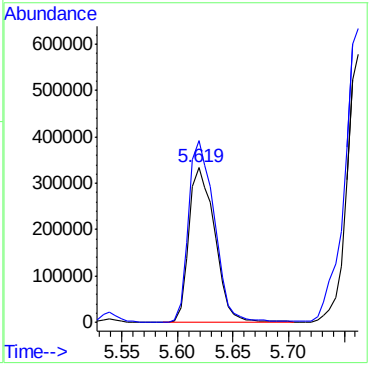
8.1.9
8

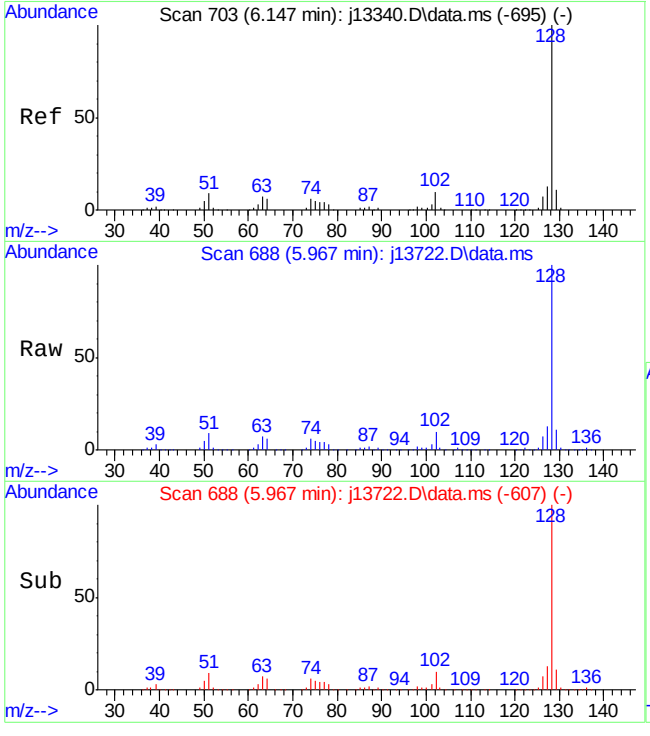


#25
2,4-Dimethylphenol
Concen: 35.20 ug/ml m
RT: 5.619 min Scan# 623
Delta R.T. -0.074 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:122 Resp: 547668

Ion	Ratio	Lower	Upper
122	100		
107	155.2	96.7	136.7#

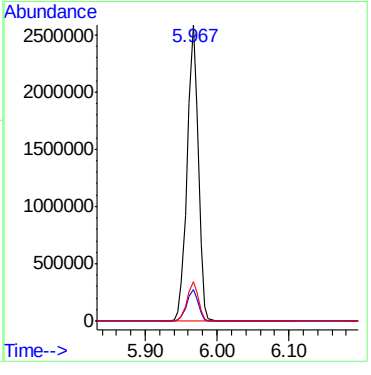




#30
Naphthalene
Concen: 50.81 ug/ml
RT: 5.967 min Scan# 688
Delta R.T. -0.068 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

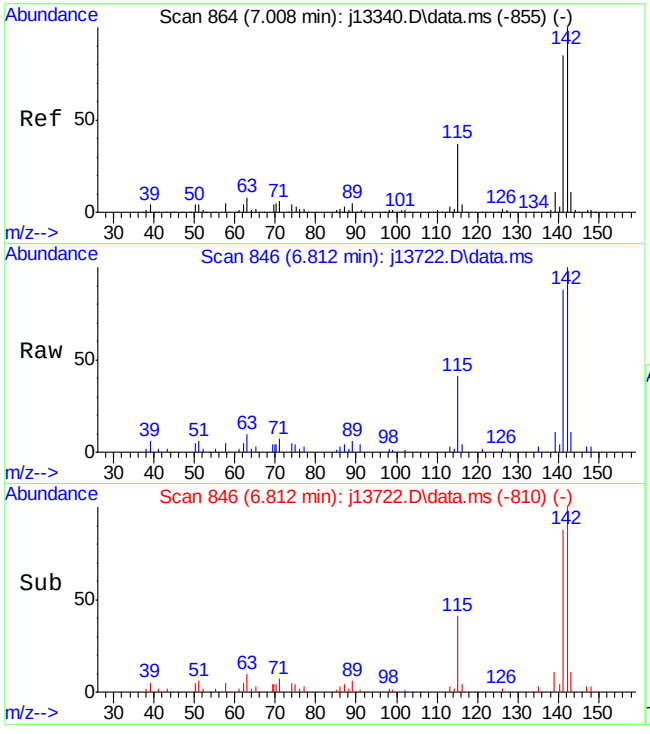
Tgt Ion:128 Resp: 2749000

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	30.9
127	13.4	0.0	33.4



8.1.9

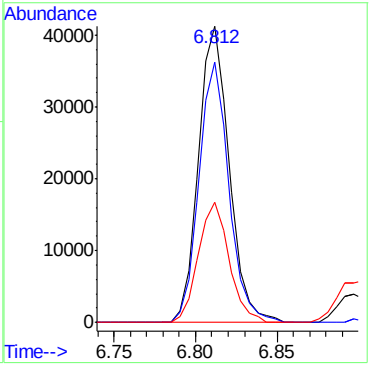
8

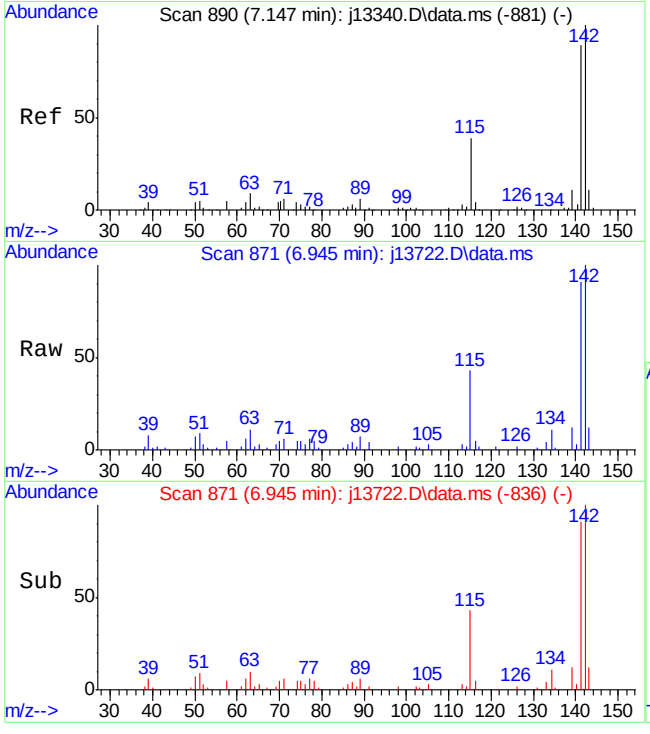


#34
2-Methylnaphthalene
Concen: 1.63 ug/ml
RT: 6.812 min Scan# 846
Delta R.T. -0.005 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:142 Resp: 54020

Ion	Ratio	Lower	Upper
142	100		
141	85.8	66.2	106.2
115	40.8	17.8	57.8

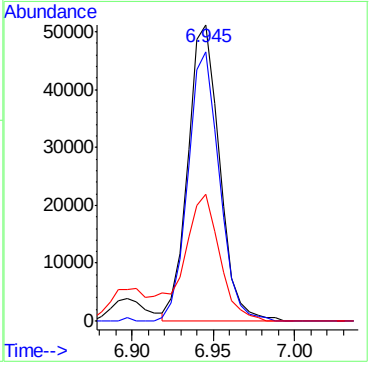




#35
1-Methylnaphthalene
Concen: 2.01 ug/ml
RT: 6.945 min Scan# 871
Delta R.T. -0.011 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

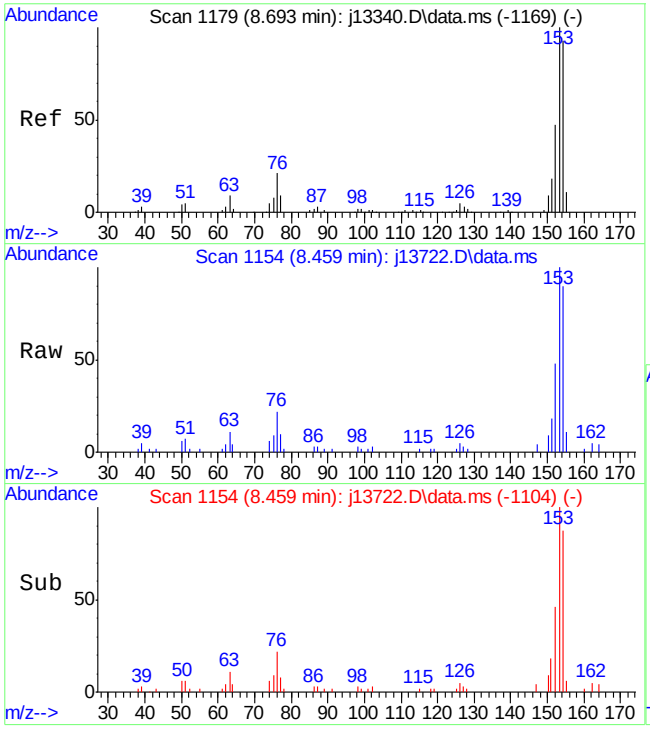
Tgt Ion:142 Resp: 69592

Ion	Ratio	Lower	Upper
142	100		
141	90.0	69.4	109.4
115	48.2	18.9	58.9



8.1.9

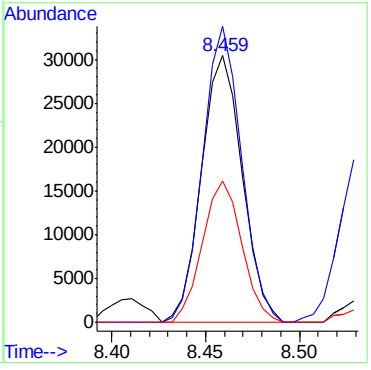
8



#47
Acenaphthene
Concen: 1.63 ug/ml
RT: 8.459 min Scan# 1154
Delta R.T. -0.234 min
Lab File: j13722.D
Acq: 9 Oct 2009 4:28 am

Tgt Ion:154 Resp: 45841

Ion	Ratio	Lower	Upper
154	100		
153	105.7	87.9	127.9
152	51.1	31.3	71.3



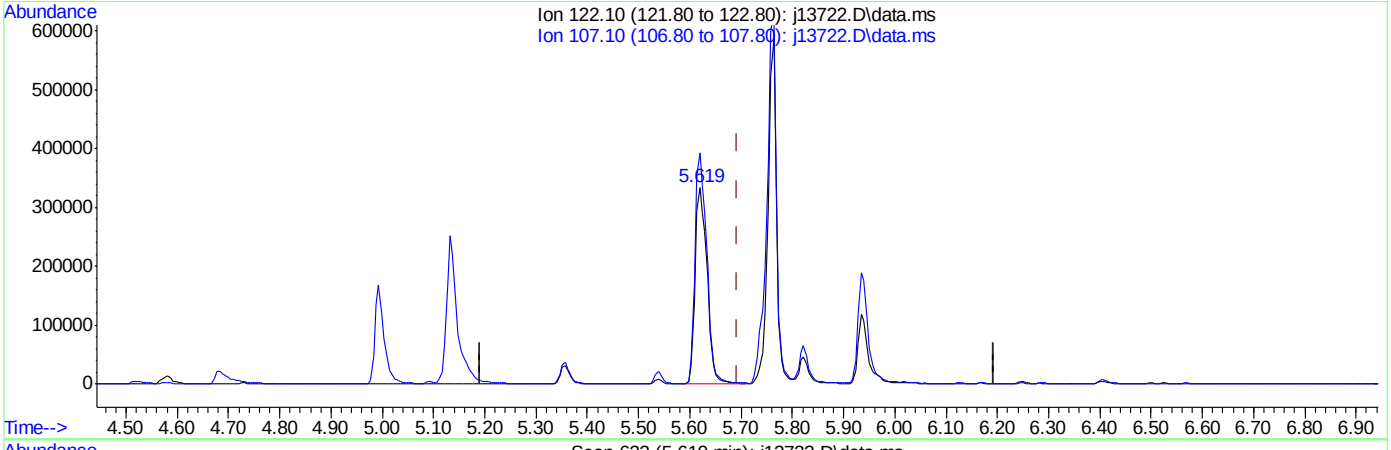
8.1.9

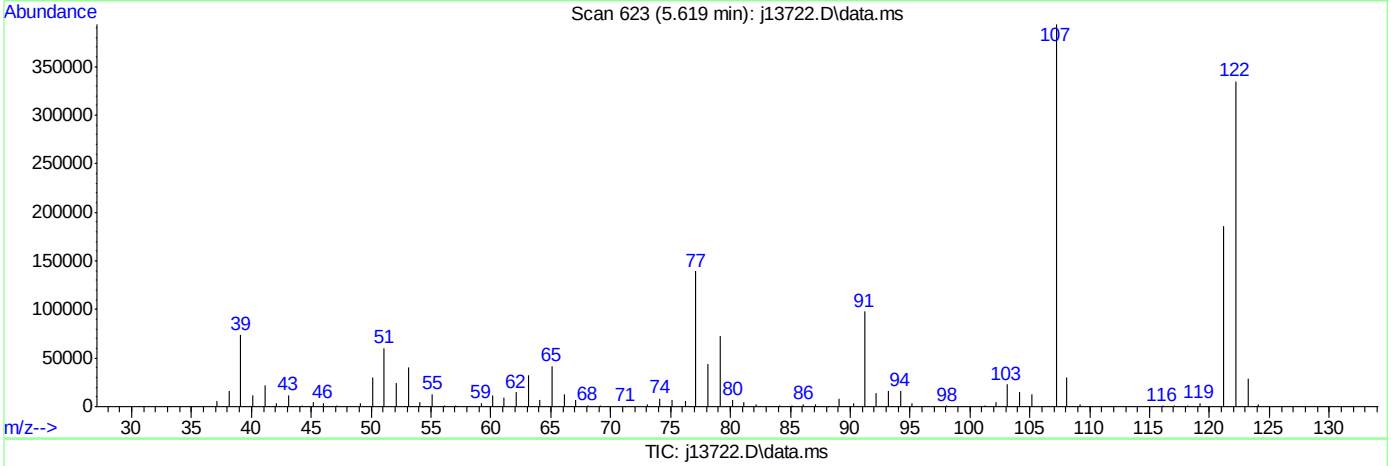
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13722.D
Acq On : 9 Oct 2009 4:28 am
Operator : sheilac
Sample : t39314-5,40x
Misc : op13205,Ej630,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 12 16:29:27 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration





TIC: j13722.D\data.ms

(25) 2,4-Dimethylphenol

5.619min (-0.074) 35.20ug/ml m

response 547668

Ion	Exp%	Act%
122.10	100	100
107.10	116.70	155.18#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/14/09 10:49

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.720	152	500905	40.00	ug/ml	0.00
20) Naphthalene-d8	5.977	136	1438190	40.00	ug/ml	0.03
36) Acenaphthene-d10	8.416	164	979413	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.198	188	1348883	40.00	ug/ml	0.00
71) Chrysene-d12	16.723	240	873342	40.00	ug/ml	-0.01
80) Perylene-d12	19.509	264	422456	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.795	112	714907	45.48	ug/ml	0.12
Spiked Amount 100.000	Range 10 - 66		Recovery = 45.48%			
5) Phenol-d5 (SURR)	4.555	99	813378	41.40	ug/ml	0.06
Spiked Amount 100.000	Range 10 - 53		Recovery = 41.40%			
21) Nitrobenzene-d5 (SURR)	5.239	82	800062	53.05	ug/ml	-0.06
Spiked Amount 50.000	Range 29 - 115		Recovery = 106.10%			
40) 2-Fluorobiphenyl (SURR)	7.352	172	1185522	30.04	ug/ml	-0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 60.08%			
62) 2,4,6-Tribromophenol (...	9.866	330	324639	71.53	ug/ml	-0.10
Spiked Amount 100.000	Range 32 - 128		Recovery = 71.53%			
74) Terphenyl-d14	14.567	244	840600	40.31	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 80.62%			
Target Compounds						Qvalue
3) Pyridine	2.447	79	691181	46.52	ug/ml	99
6) Phenol	4.571	94	7648952	359.77	ug/ml	97
7) Aniline	4.474	93	1980091	89.17	ug/ml	93
14) 2-Methylphenol	5.063	108	10375183	696.12	ug/ml	98
16) 4-Methylphenol	5.255	108	14341564m	909.60	ug/ml	
17) m+p-Cresols	5.255	108	14341564m	909.60	ug/ml	
25) 2,4-Dimethylphenol	5.710	122	13979182m	1241.22	ug/ml	
30) Naphthalene	5.988	128	43805211m	1118.31	ug/ml	
34) 2-Methylnaphthalene	6.833	142	2195300	91.74	ug/ml	99
35) 1-Methylnaphthalene	6.972	142	3460454	138.07	ug/ml	89
47) Acenaphthene	8.475	154	1944928	71.37	ug/ml	99
50) Dibenzofuran	8.775	168	735200m	18.89	ug/ml	
54) Fluorene	9.384	166	407109	12.00	ug/ml	97
66) Phenanthrene	11.240	178	638493	15.89	ug/ml	94
68) Carbazole	11.748	167	638018	20.48	ug/ml	99

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

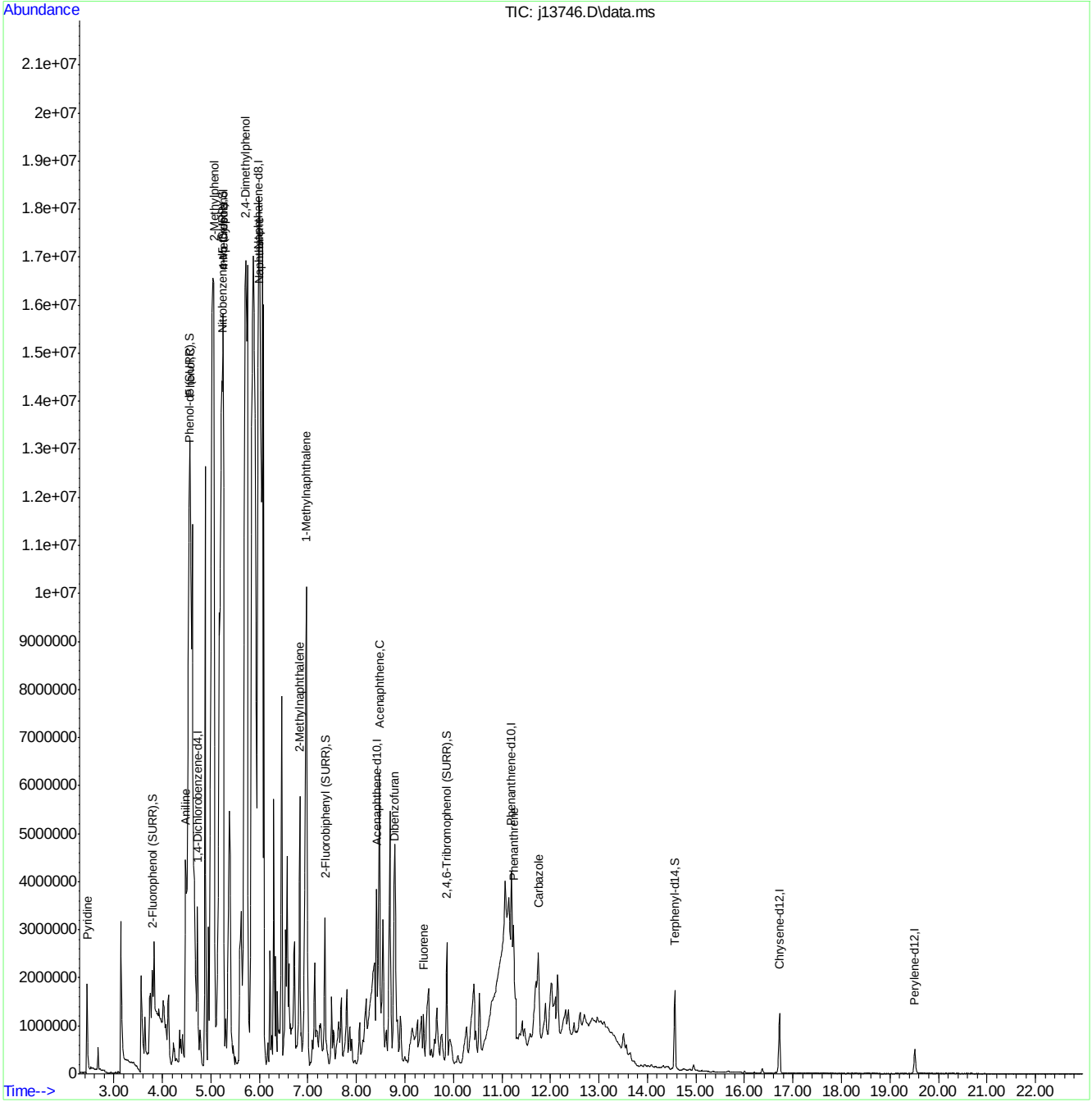
8.1.10

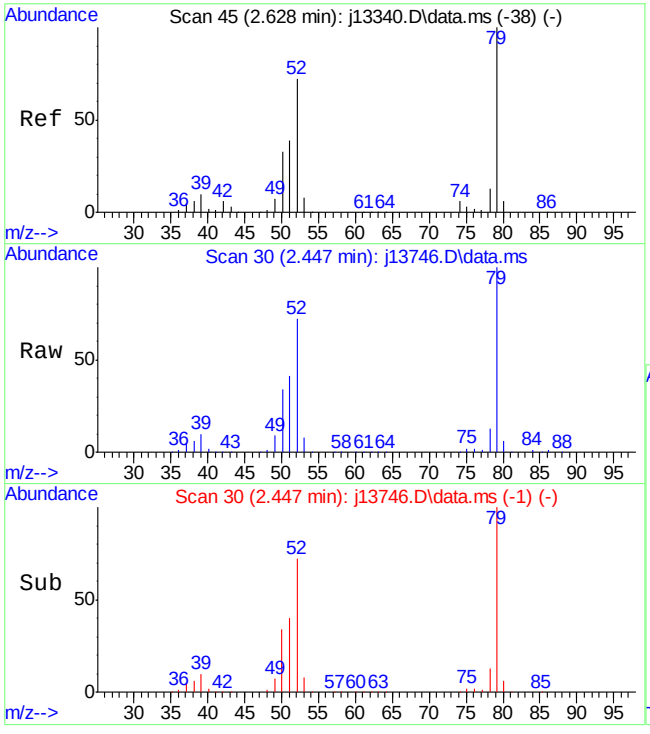
8

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

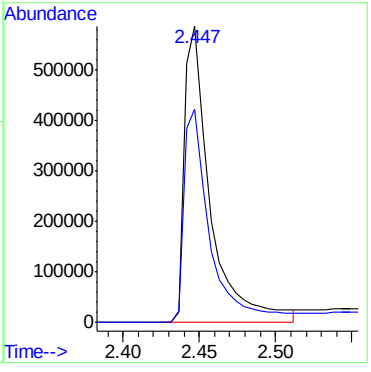


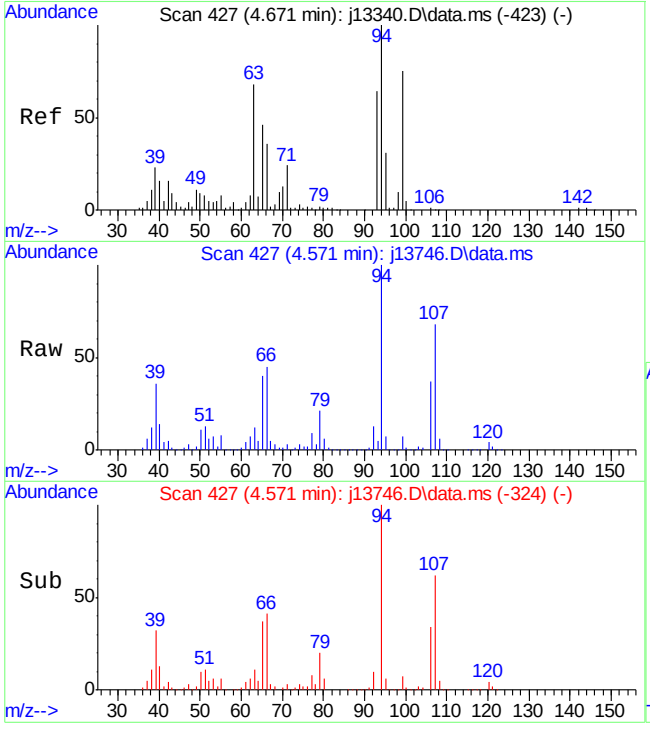


#3
Pyridine
Concen: 46.52 ug/ml
RT: 2.447 min Scan# 30
Delta R.T. 0.015 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion: 79 Resp: 691181

Ion	Ratio	Lower	Upper
79	100		
52	73.2	52.6	92.6

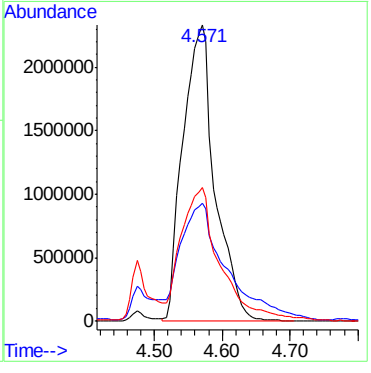


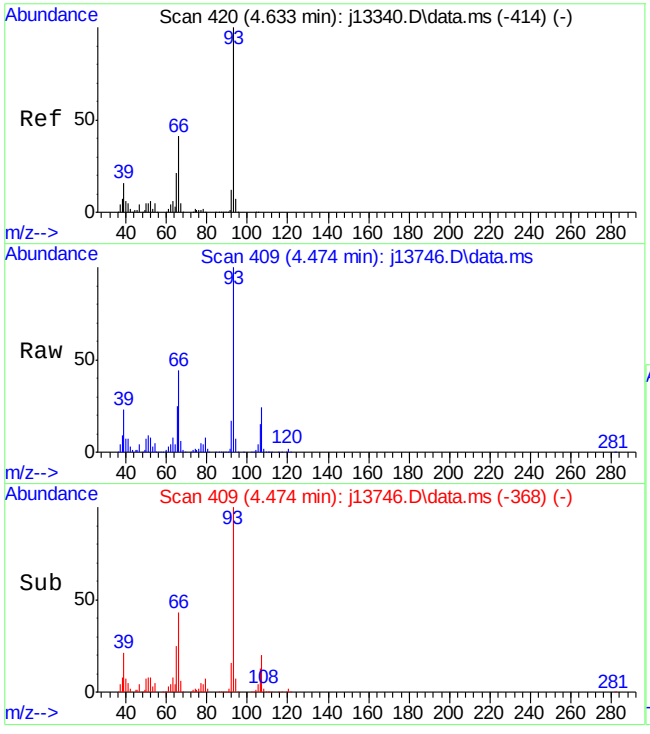


#6
Phenol
Concen: 359.77 ug/ml
RT: 4.571 min Scan# 427
Delta R.T. 0.052 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion: 94 Resp: 7648952

Ion	Ratio	Lower	Upper
94	100		
65	56.8	35.3	75.3
66	55.0	37.4	77.4

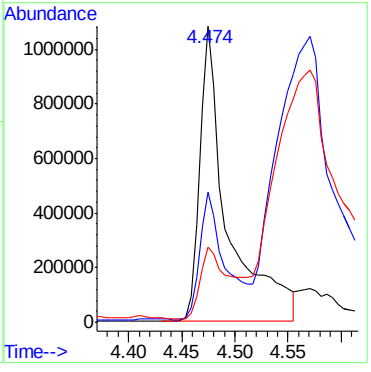


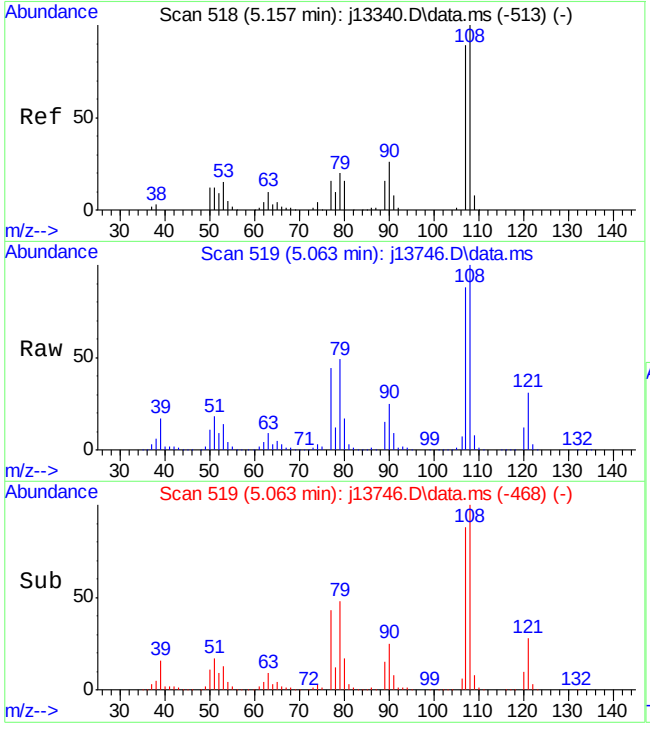


#7
Aniline
Concen: 89.17 ug/ml
RT: 4.474 min Scan# 409
Delta R.T. 0.020 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion: 93 Resp: 1980091

Ion	Ratio	Lower	Upper
93	100		
66	39.3	21.2	61.2
65	28.3	2.0	42.0

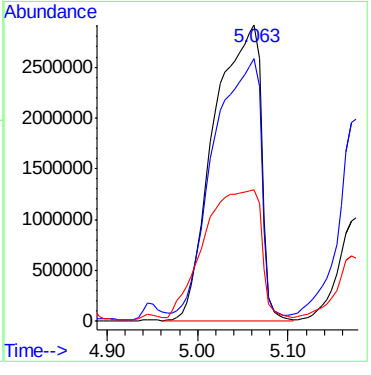


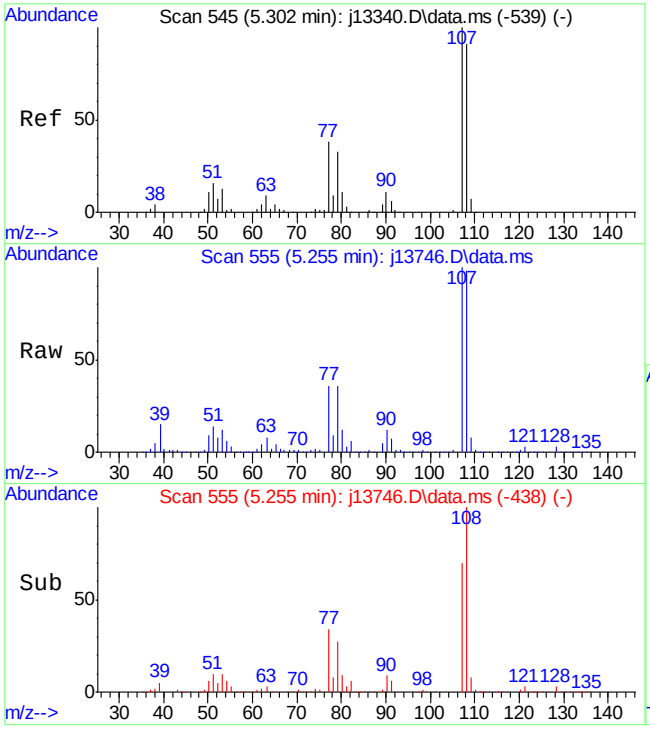


#14
2-Methylphenol
Concen: 696.12 ug/ml
RT: 5.063 min Scan# 519
Delta R.T. 0.071 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:108 Resp:10375183

Ion	Ratio	Lower	Upper
108	100		
107	87.9	69.0	109.0
77	52.8	30.1	70.1

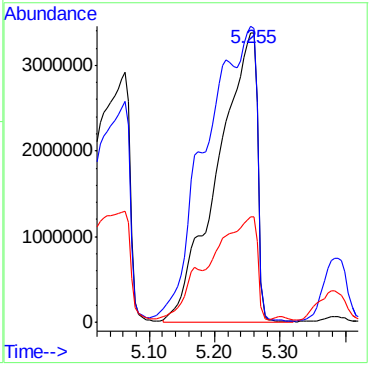


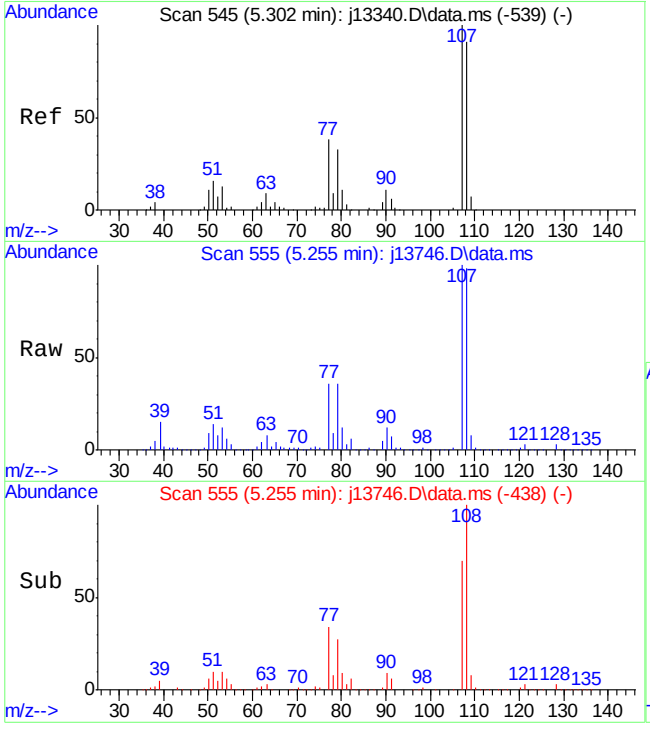


#16
4-Methylphenol
Concen: 909.60 ug/ml m
RT: 5.255 min Scan# 555
Delta R.T. 0.126 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:108 Resp:14341564

Ion	Ratio	Lower	Upper
108	100		
107	63.1	90.0	130.0#
77	39.4	20.6	60.6

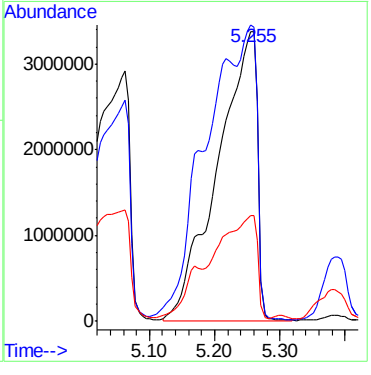




#17
m+p-Cresols
Concen: 909.60 ug/ml m
RT: 5.255 min Scan# 555
Delta R.T. 0.126 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

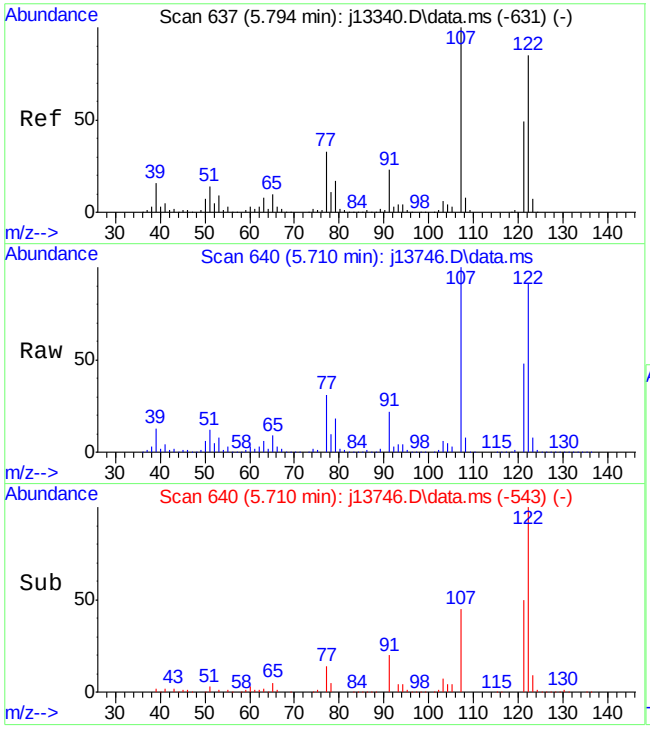
Tgt Ion:108 Resp:14341564

Ion	Ratio	Lower	Upper
108	100		
107	63.1	90.0	130.0#
77	39.4	20.6	60.6



8.1.10

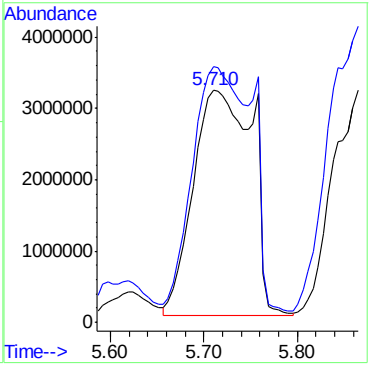
8

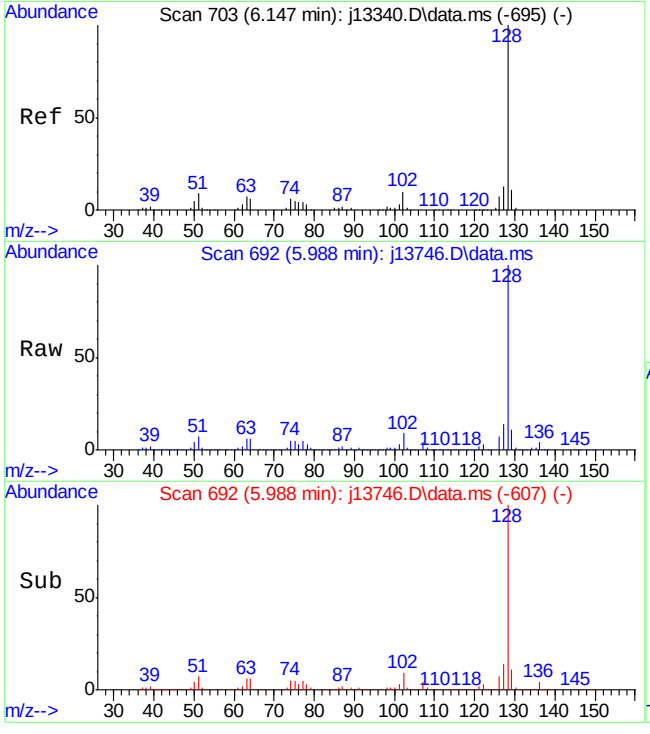


#25
2,4-Dimethylphenol
Concen: 1241.22 ug/ml m
RT: 5.710 min Scan# 640
Delta R.T. 0.017 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:122 Resp:13979182

Ion	Ratio	Lower	Upper
122	100		
107	88.8	96.7	136.7#

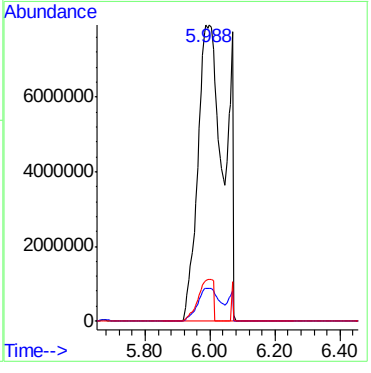


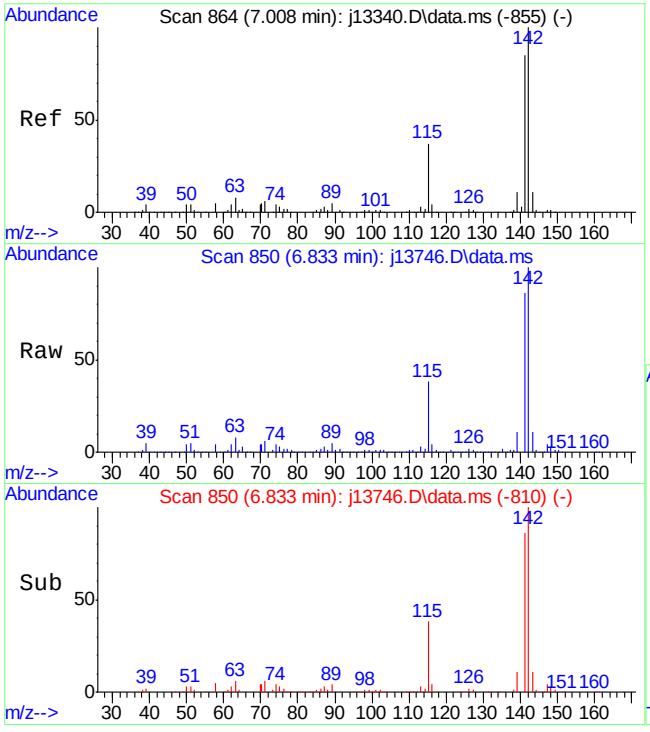


#30
Naphthalene
Concen: 1118.31 ug/ml m
RT: 5.988 min Scan# 692
Delta R.T. -0.047 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:128 Resp:43805211

Ion	Ratio	Lower	Upper
128	100		
129	1.9	0.0	30.9
127	0.8	0.0	33.4

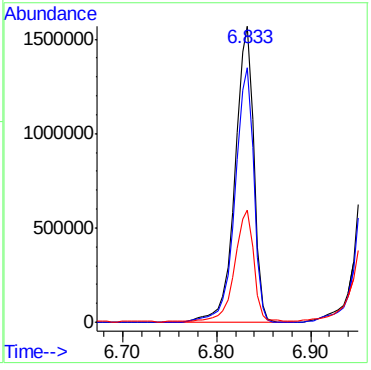


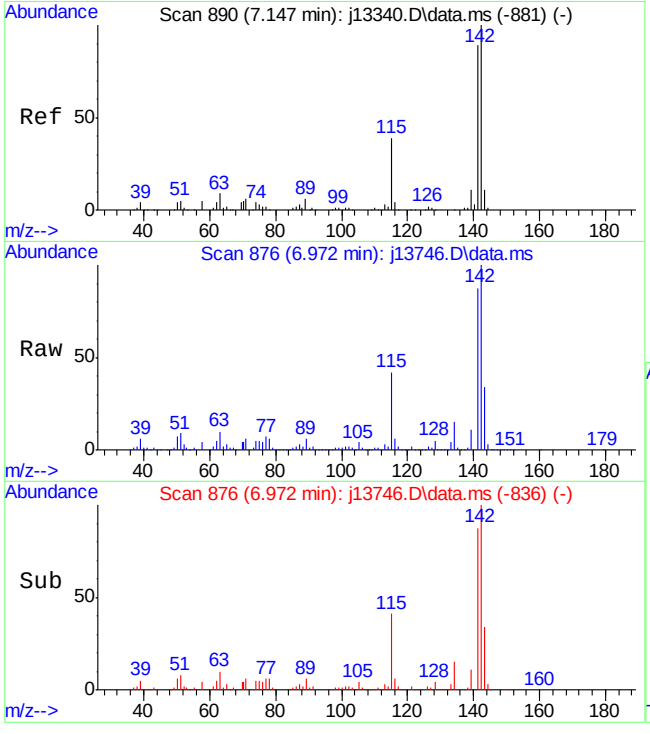


#34
2-Methylnaphthalene
Concen: 91.74 ug/ml
RT: 6.833 min Scan# 850
Delta R.T. 0.016 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:142 Resp: 2195300

Ion	Ratio	Lower	Upper
142	100		
141	86.0	66.2	106.2
115	39.1	17.8	57.8

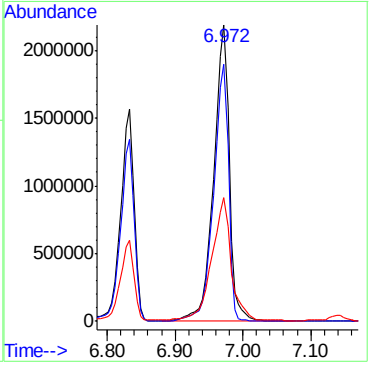


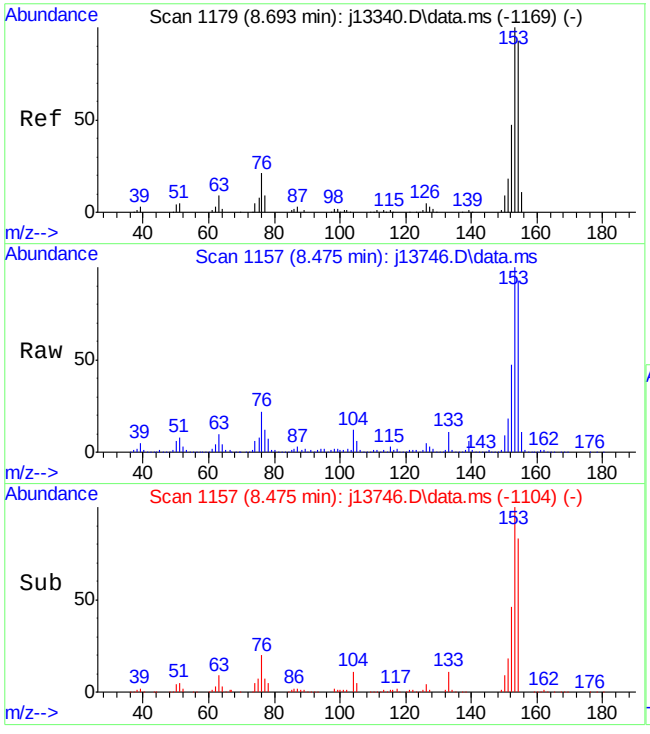


#35
1-Methylnaphthalene
Concen: 138.07 ug/ml
RT: 6.972 min Scan# 876
Delta R.T. 0.016 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:142 Resp: 3460454

Ion	Ratio	Lower	Upper
142	100		
141	83.4	69.4	109.4
115	51.5	18.9	58.9

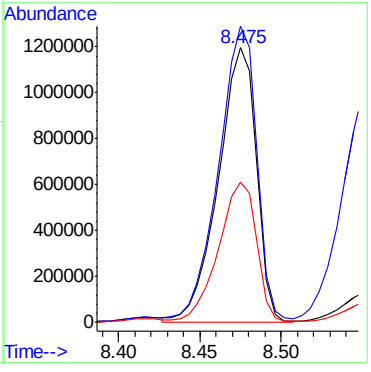


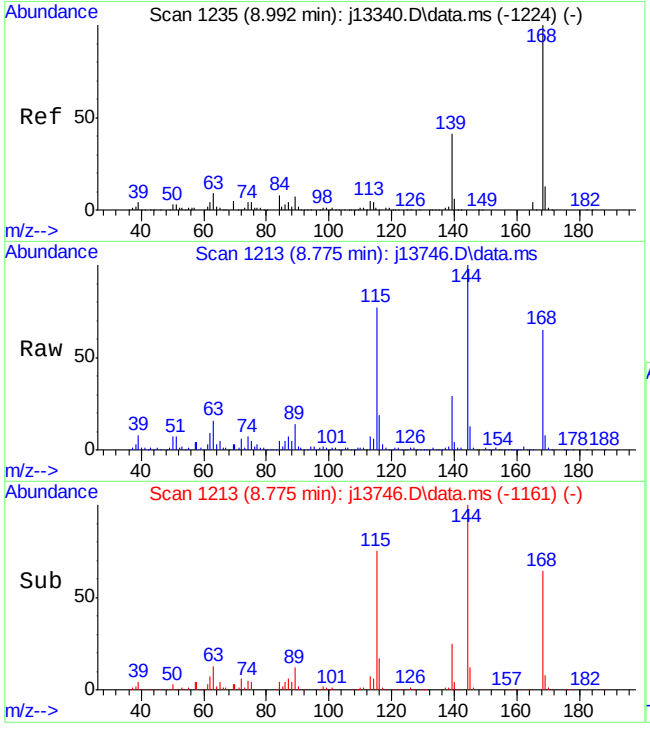


#47
Acenaphthene
Concen: 71.37 ug/ml
RT: 8.475 min Scan# 1157
Delta R.T. -0.218 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:154 Resp: 1944928

Ion	Ratio	Lower	Upper
154	100		
153	108.7	87.9	127.9
152	51.1	31.3	71.3

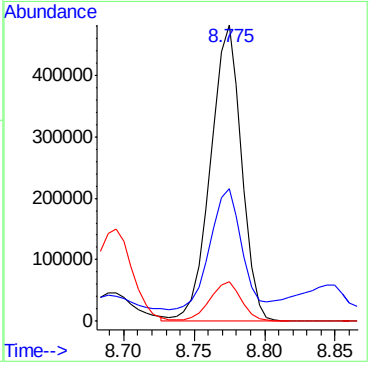


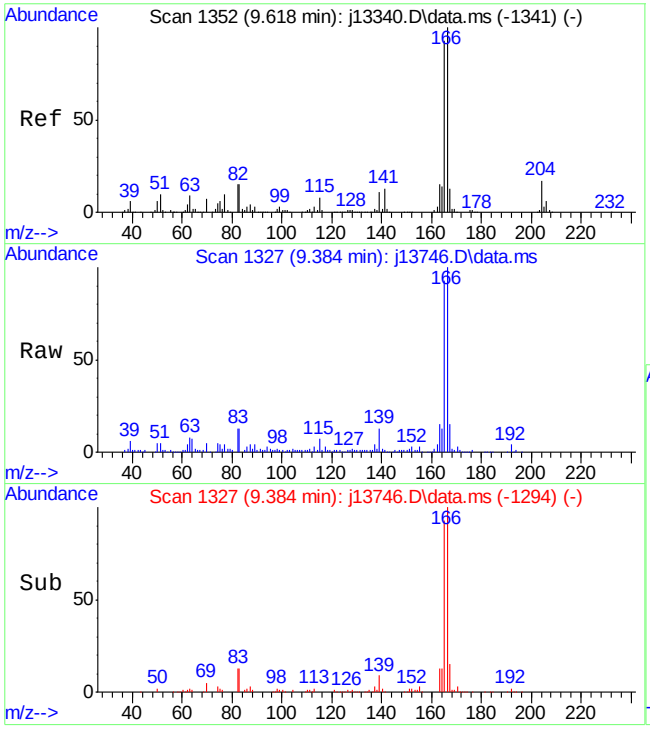


#50
Dibenzofuran
Concen: 18.89 ug/ml m
RT: 8.775 min Scan# 1213
Delta R.T. -0.223 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:168 Resp: 735200

Ion	Ratio	Lower	Upper
168	100		
139	0.0	21.2	61.2#
169	0.0	0.0	33.2

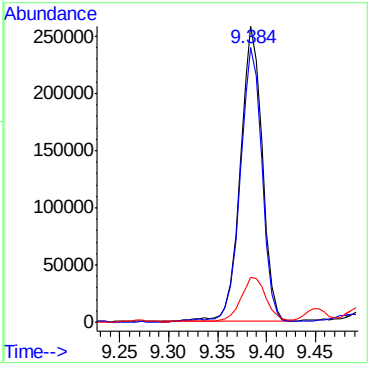


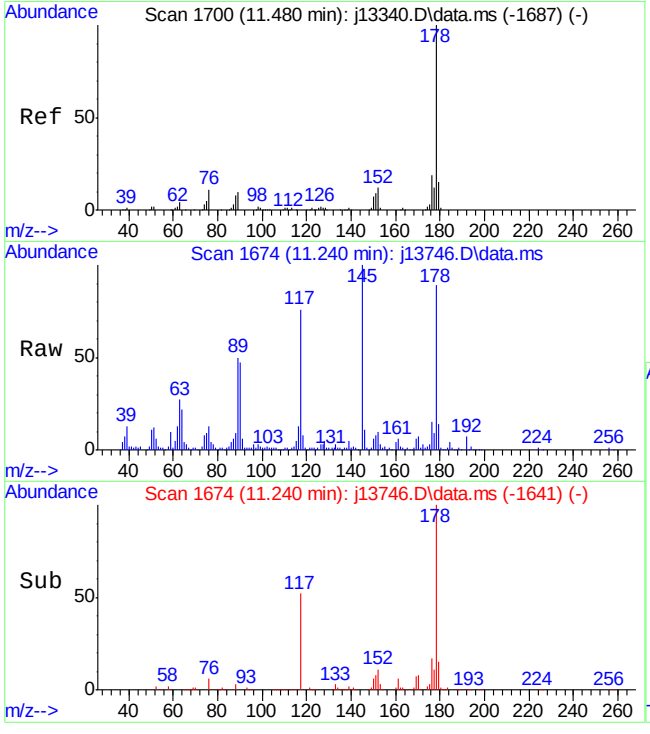


#54
Fluorene
Concen: 12.00 ug/ml
RT: 9.384 min Scan# 1327
Delta R.T. -0.022 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:166 Resp: 407109

Ion	Ratio	Lower	Upper
166	100		
165	91.9	73.8	113.8
167	18.6	0.0	33.3

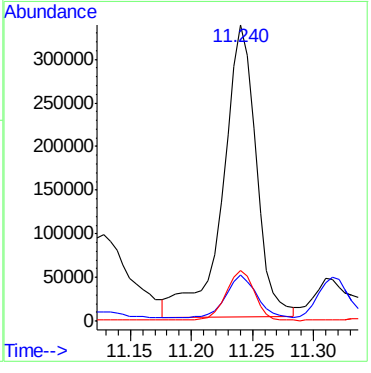


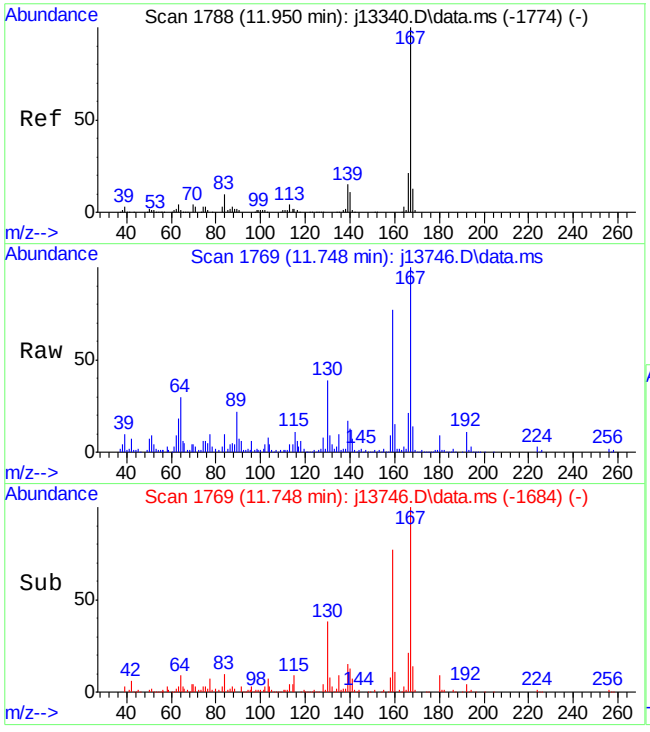


#66
Phenanthrene
Concen: 15.89 ug/ml
RT: 11.240 min Scan# 1674
Delta R.T. -0.021 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:178 Resp: 638493

Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	35.2
176	15.0	0.0	39.2

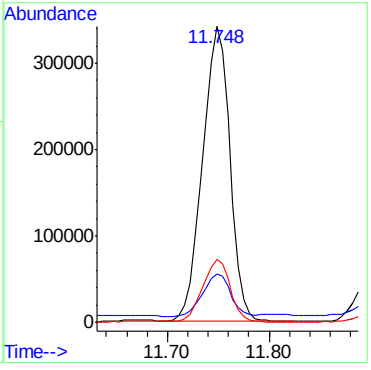




#68
Carbazole
Concen: 20.48 ug/ml
RT: 11.748 min Scan# 1769
Delta R.T. -0.045 min
Lab File: j13746.D
Acq: 9 Oct 2009 7:57 pm

Tgt Ion:167 Resp: 638018

Ion	Ratio	Lower	Upper
167	100		
139	14.7	0.0	34.1
166	21.3	0.9	40.9



8.1.10

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On    :  9 Oct 2009   7:57 pm
Operator  : sheilac
Sample    : t39314-5
Misc      : op13205,Ej631,1000,,,1,1,water
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
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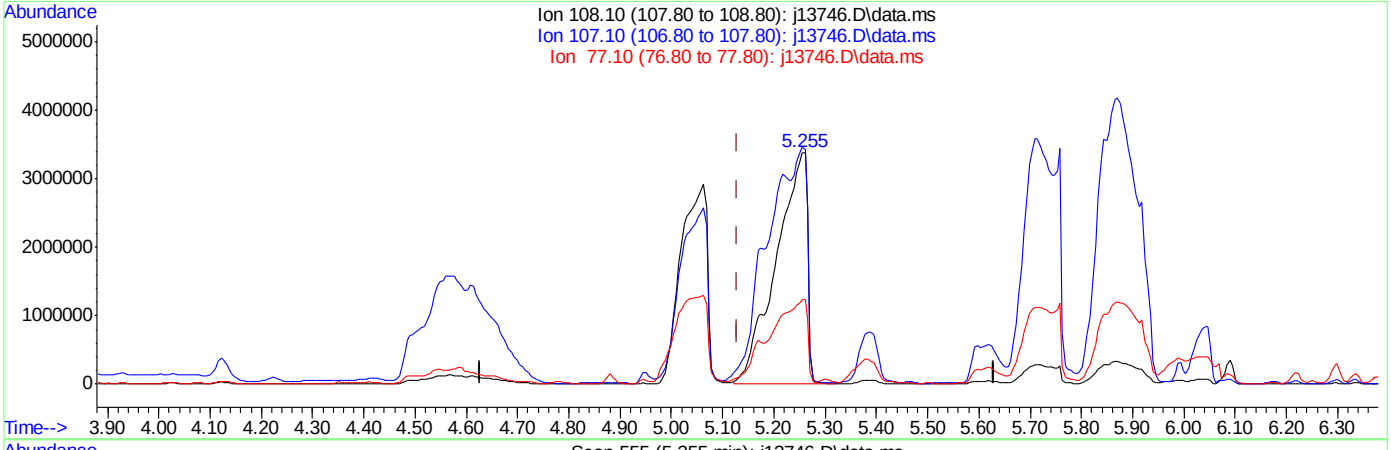

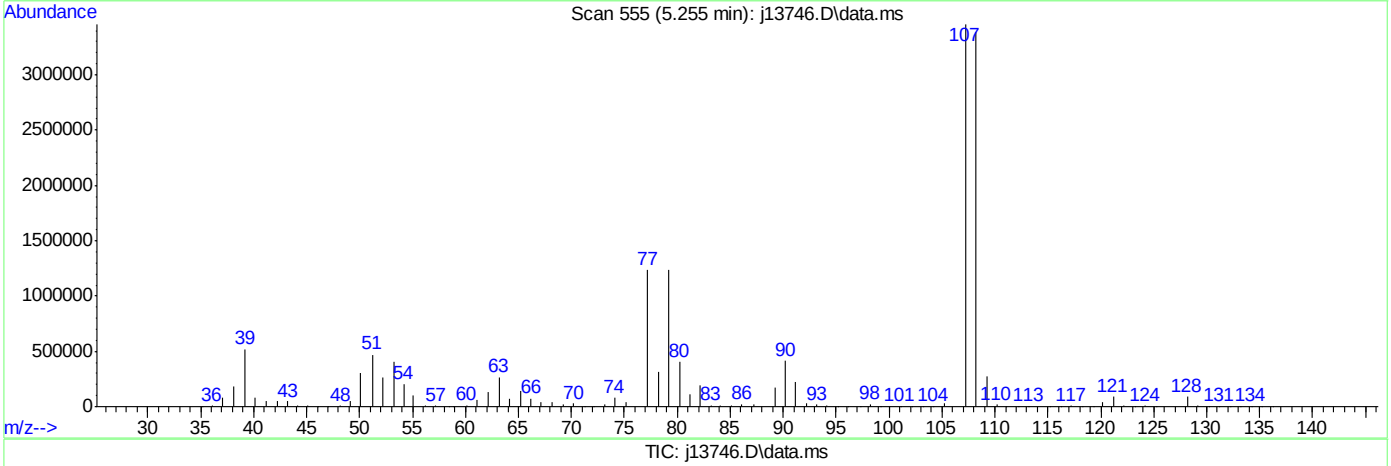

TIC: j13746.D\data.ms

(16) 4-Methylphenol

5.255min (+0.126) 909.60ug/ml m

response 14341564

Ion	Exp%	Act%
108.10	100	100
107.10	110.00	63.05#
77.10	40.60	39.43
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On    :  9 Oct 2009   7:57 pm
Operator  : sheilac
Sample    : t39314-5
Misc      : op13205,Ej631,1000,,,1,1,water
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
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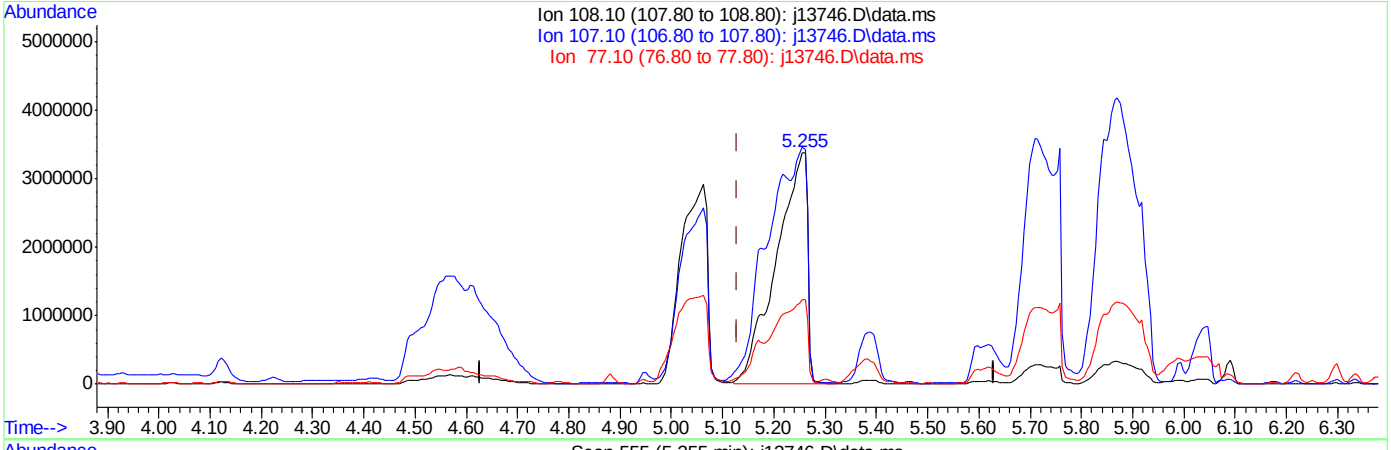

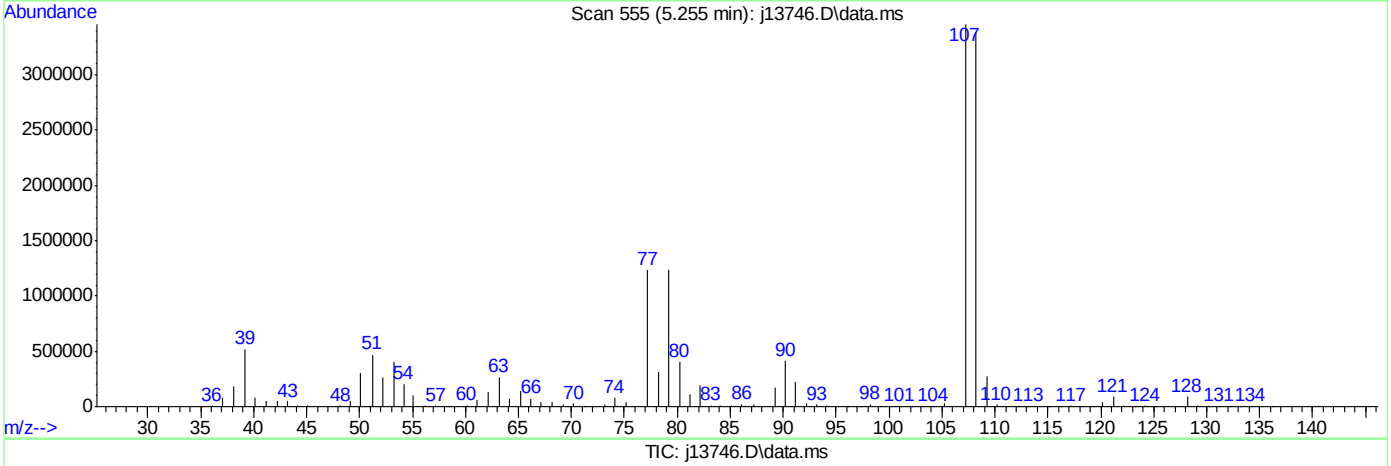

TIC: j13746.D\data.ms

(17) m+p-Cresols

5.255min (+0.126) 909.60ug/ml m

response 14341564

Ion	Exp%	Act%
108.10	100	100
107.10	110.00	63.05#
77.10	40.60	39.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
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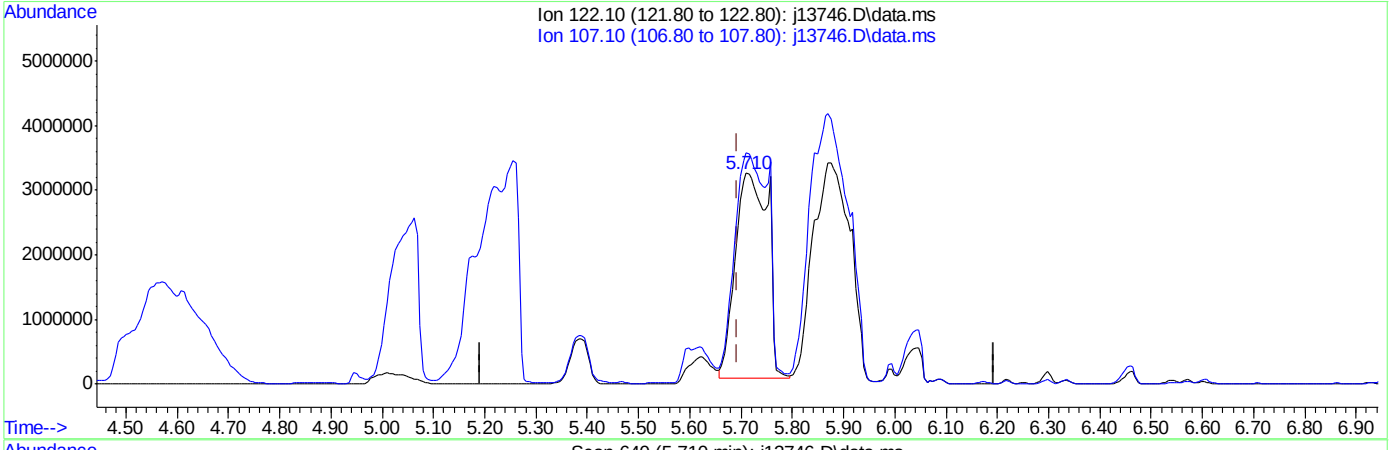
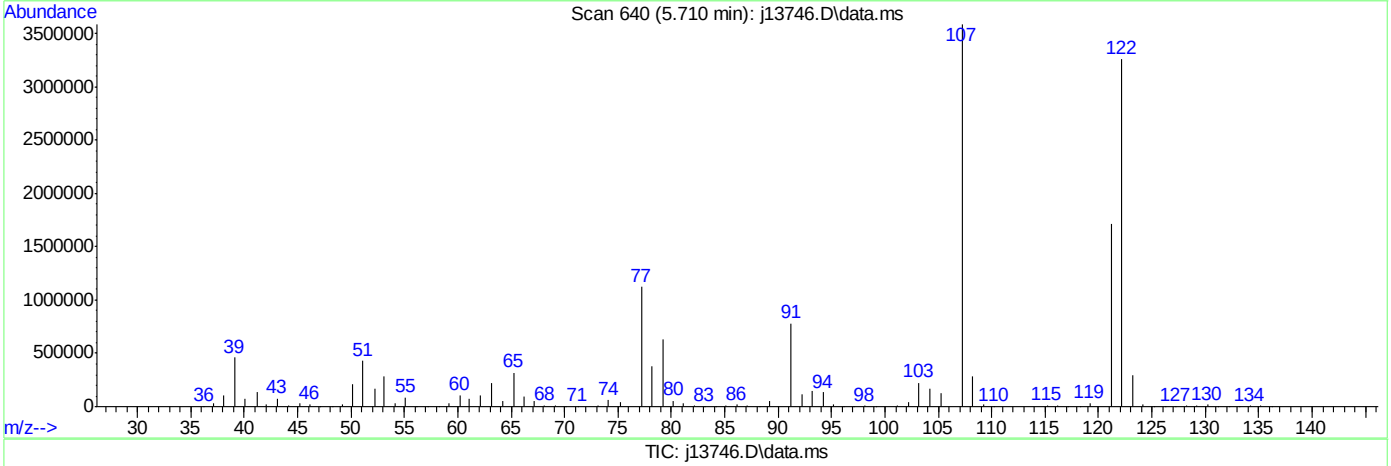
Response via : Initial Calibration





TIC: j13746.D\data.ms

(25) 2,4-Dimethylphenol

5.710min (+0.017) 1241.22ug/ml m

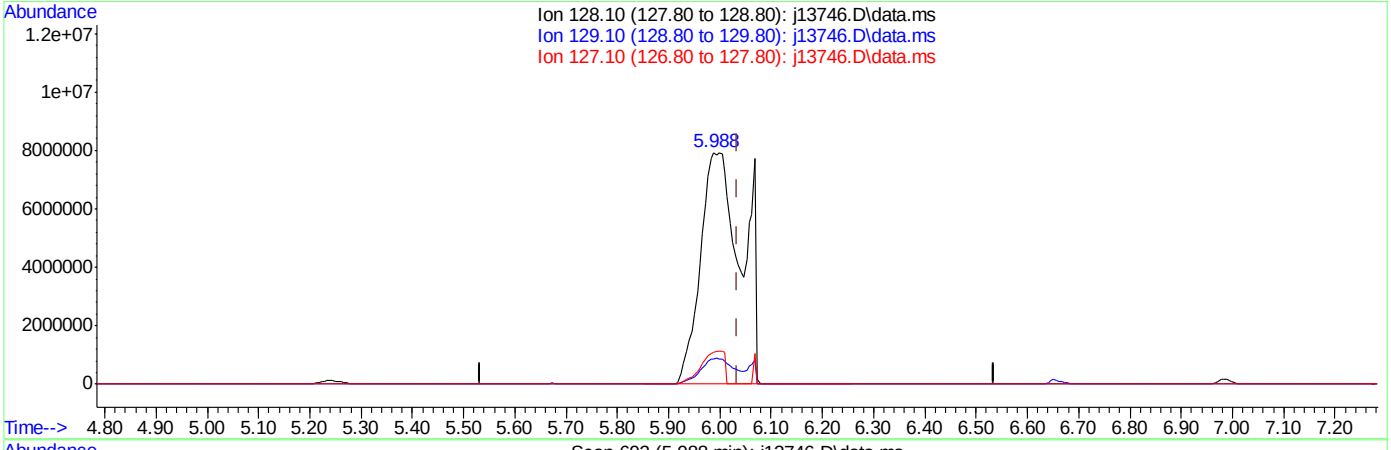
response 13979182

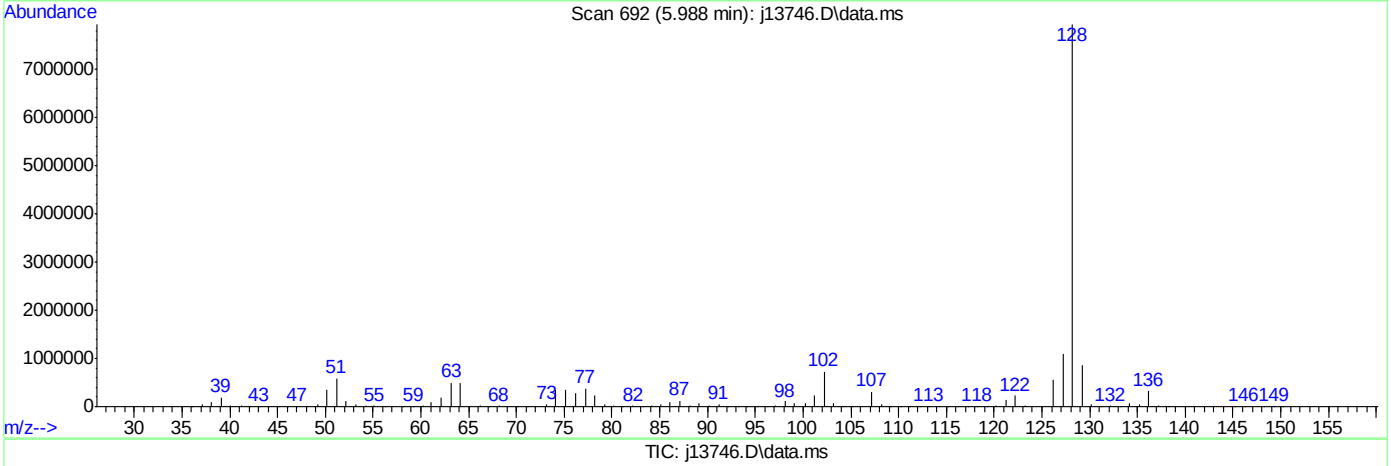
Ion	Exp%	Act%
122.10	100	100
107.10	116.70	88.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration





TIC: j13746.D\data.ms

(30) Naphthalene

5.988min (-0.047) 1118.31ug/ml m

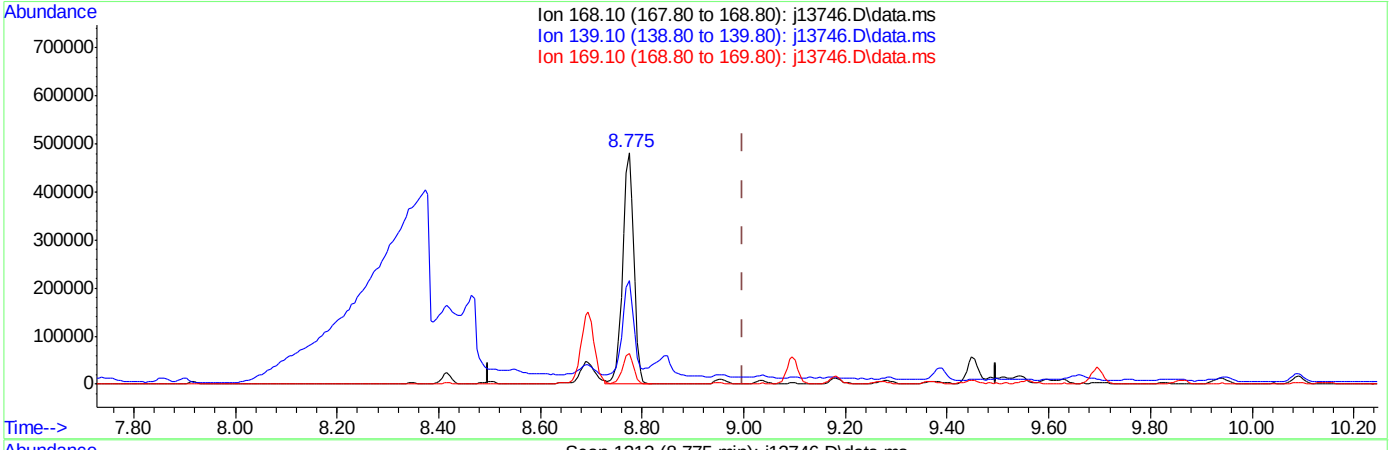
response 43805211

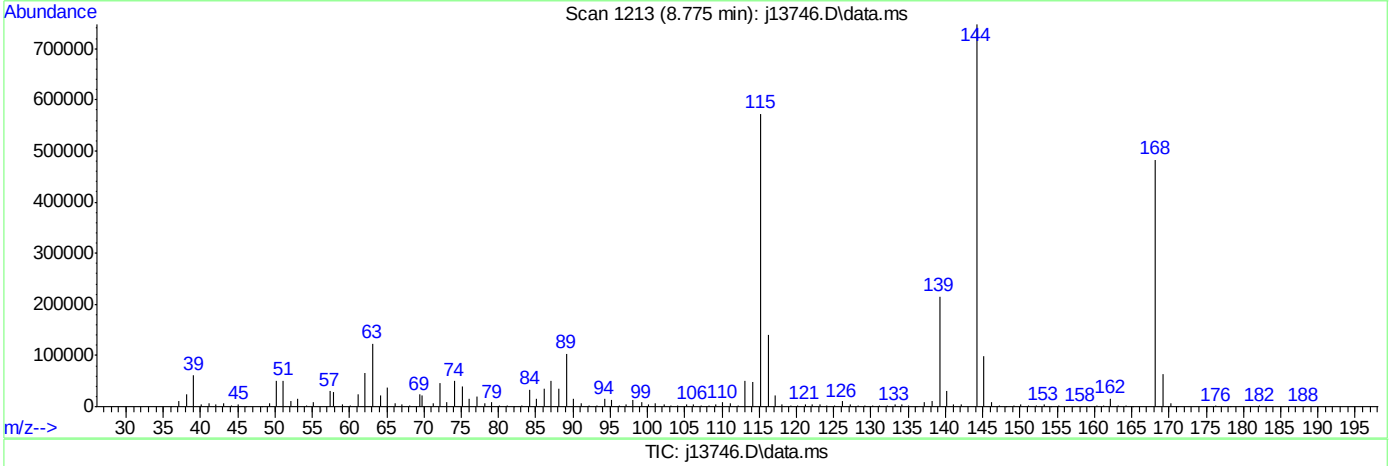
Ion	Exp%	Act%
128.10	100	100
129.10	10.90	1.91
127.10	13.40	0.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 12 15:47:33 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration





TIC: j13746.D\data.ms

(50) Dibenzofuran

8.775min (-0.223) 18.89ug/ml m

response 735200

Ion	Exp%	Act%
168.10	100	100
139.10	41.20	0.00#
169.10	13.20	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 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: j13746.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.447	27	30	41	rBV	1841261	2164553	3.71%	0.380%
2	3.143	157	160	178	rBV	3156983	6081659	10.41%	1.068%
3	3.560	235	238	250	rBV2	1999054	4346133	7.44%	0.763%
4	3.640	250	253	262	rVB	832697	1219698	2.09%	0.214%
5	3.736	268	271	272	rBV2	1208565	1043753	1.79%	0.183%
6	3.790	277	281	285	rVV	1306714	2513510	4.30%	0.442%
7	3.827	285	288	295	rVB3	1539725	1869071	3.20%	0.328%
8	4.121	338	343	355	rVB	1449956	2994518	5.13%	0.526%
9	4.228	355	363	365	rBV3	462660	698946	1.20%	0.123%
10	4.351	382	386	388	rBV	670101	624587	1.07%	0.110%
11	4.410	394	397	404	rVB2	478542	598780	1.03%	0.105%
12	4.480	404	410	413	rBV3	4114190	7281479	12.47%	1.279%
13	4.571	416	427	432	rBV3	9365387	32105065	54.98%	5.639%
14	4.613	432	435	452	rVB	10135767	22132048	37.90%	3.888%
15	4.720	452	455	463	rVB	2973239	3364799	5.76%	0.591%
16	4.779	463	466	478	rVB2	757532	1289641	2.21%	0.227%
17	4.881	479	485	493	rBV	12469513	14722990	25.21%	2.586%
18	4.945	493	497	501	rBV	2776330	3365573	5.76%	0.591%
19	5.047	501	516	518	rBV3	15461505	58174946	99.63%	10.219%
20	5.170	527	539	541	rBV3	8630836	16368330	28.03%	2.875%
21	5.298	560	563	568	rVV	627957	789413	1.35%	0.139%
22	5.378	568	578	592	rVV4	5086853	15629654	26.77%	2.745%
23	5.619	611	623	629	rBV3	3140513	9804217	16.79%	1.722%
24	5.715	629	641	647	rBV2	15096711	58393406	100.00%	10.257%
25	5.758	647	649	652	rVB	15563143	10442880	17.88%	1.834%
26	5.844	656	665	666	rBV	13523909	21493060	36.81%	3.775%
27	5.993	684	693	703	rBV2	12851720	55618939	95.25%	9.770%
28	6.068	705	707	708	rVV	12996344	7042890	12.06%	1.237%
29	6.090	708	711	720	rVB	15821101	17566392	30.08%	3.086%
30	6.170	720	726	730	rBV2	445466	584959	1.00%	0.103%
31	6.218	730	735	739	rBV	2323966	2845663	4.87%	0.500%
32	6.298	744	750	754	rBV	5304404	6635972	11.36%	1.166%
33	6.336	754	757	761	rVB	1985676	2022001	3.46%	0.355%
34	6.373	761	764	768	rBV	1267098	1645718	2.82%	0.289%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 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 :

35	6.459	774	780	785	rVB	7474236	11418985	19.56%	2.006%
36	6.539	791	795	798	rVV	2355149	3307237	5.66%	0.581%
37	6.571	798	801	804	rVV	3739055	4161392	7.13%	0.731%
38	6.603	804	807	812	rVB	1374815	1762879	3.02%	0.310%
39	6.721	823	829	833	rVB3	2229902	3689629	6.32%	0.648%
40	6.833	840	850	854	rBV	5192999	7539865	12.91%	1.324%
41	6.972	859	876	888	rVB4	9967819	29114618	49.86%	5.114%
42	7.095	893	899	902	rBV3	486861	804740	1.38%	0.141%
43	7.138	902	907	911	rBV	1793244	2561999	4.39%	0.450%
44	7.347	940	946	951	rBV	2738077	3681215	6.30%	0.647%
45	7.491	965	973	976	rBV2	1373889	2088772	3.58%	0.367%
46	7.528	976	980	986	rVV3	700273	1361187	2.33%	0.239%
47	7.630	987	999	1005	rVV7	860131	3108817	5.32%	0.546%
48	7.683	1005	1009	1016	rVV	1360932	2415280	4.14%	0.424%
49	7.801	1017	1031	1036	rVV2	1531272	3789865	6.49%	0.666%
50	7.860	1036	1042	1047	rVV5	756191	1705842	2.92%	0.300%
51	7.903	1047	1050	1056	rVB2	510056	762386	1.31%	0.134%
52	8.063	1073	1080	1085	rBV2	806509	1462298	2.50%	0.257%
53	8.197	1096	1105	1110	rBV3	903159	2236958	3.83%	0.393%
54	8.416	1140	1146	1150	rBV	2749322	4845353	8.30%	0.851%
55	8.475	1150	1157	1162	rVV	5403835	10268087	17.58%	1.804%
56	8.550	1166	1171	1176	rVB2	2651153	4440462	7.60%	0.780%
57	8.689	1188	1197	1207	rBV2	4974488	10238466	17.53%	1.798%
58	8.796	1207	1217	1224	rBV2	4249636	11548518	19.78%	2.029%
59	8.908	1232	1238	1248	rVB	945771	2133501	3.65%	0.375%
60	9.384	1323	1327	1332	rVB	869641	1227413	2.10%	0.216%
61	9.491	1332	1347	1353	rVV3	1421582	4875817	8.35%	0.856%
62	9.614	1363	1370	1372	rVV4	410661	814371	1.39%	0.143%
63	9.657	1372	1378	1389	rVV2	1083505	2947994	5.05%	0.518%
64	9.759	1389	1397	1408	rVV3	551934	1732629	2.97%	0.304%
65	9.866	1409	1417	1422	rVV2	2495786	4386668	7.51%	0.771%
66	9.919	1422	1427	1445	rVB5	519665	2132106	3.65%	0.375%
67	10.267	1477	1492	1498	rBV3	673578	2424991	4.15%	0.426%
68	10.427	1502	1522	1526	rVV4	1466842	6512190	11.15%	1.144%
69	10.465	1526	1529	1535	rVB	464996	692896	1.19%	0.122%
70	10.534	1535	1542	1551	rBV4	1236859	2603187	4.46%	0.457%
71	11.198	1661	1666	1671	rVB2	1601963	2524764	4.32%	0.443%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On    :  9 Oct 2009   7:57 pm
Operator  : sheilac
Sample    : t39314-5
Misc      : op13205,Ej631,1000,,,1,1,water
ALS Vial  : 22   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     :
```

72	12.021	1810	1820	1828	rBV4	829782	2927678	5.01%	0.514%
73	12.150	1838	1844	1853	rVB2	1229463	2763121	4.73%	0.485%
74	14.567	2287	2296	2318	rVB2	1672688	3167763	5.42%	0.556%
75	16.723	2689	2699	2711	rVB	1236061	2474252	4.24%	0.435%
76	19.509	3208	3220	3235	rBV	510327	1161410	1.99%	0.204%

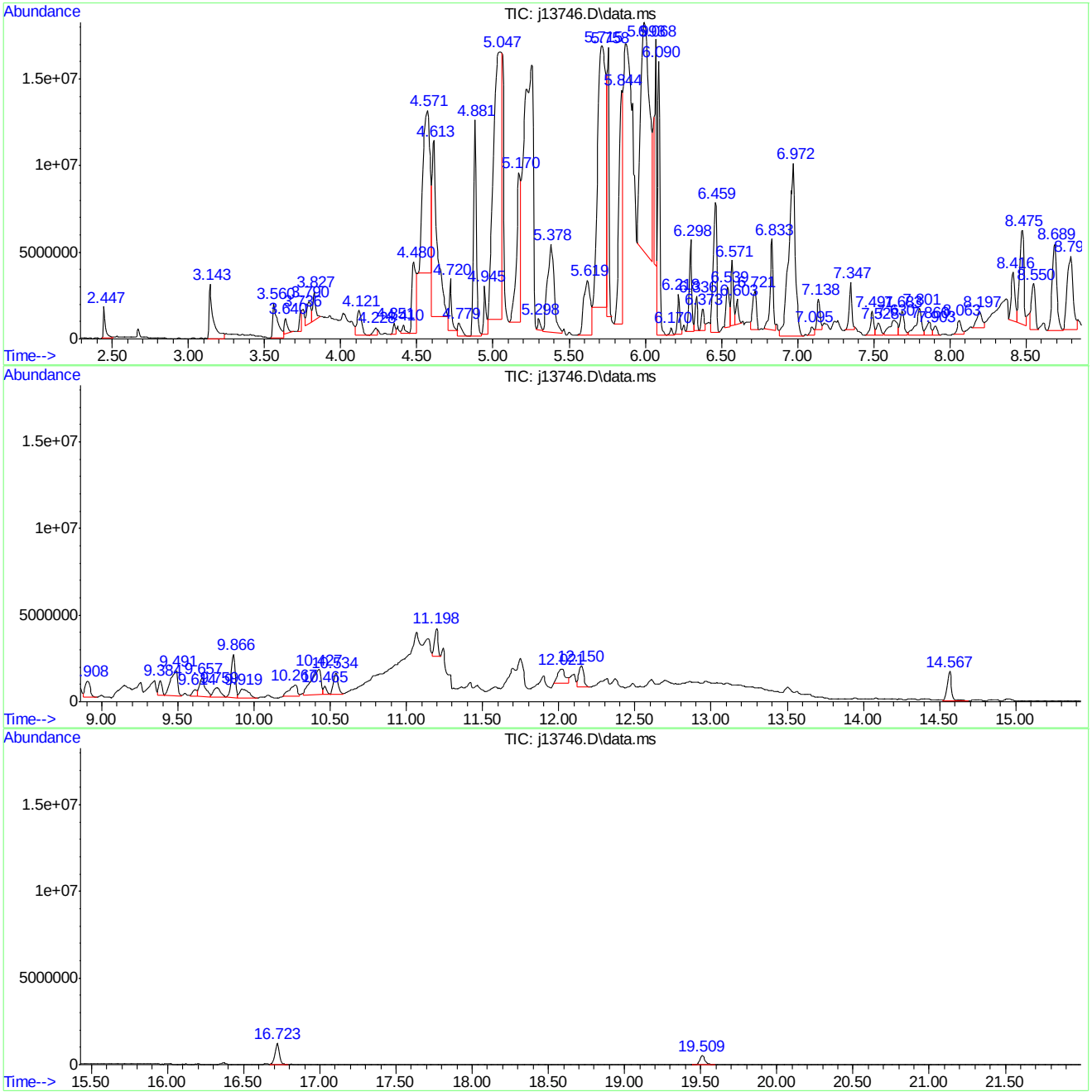
Sum of corrected areas: 569292844

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 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\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

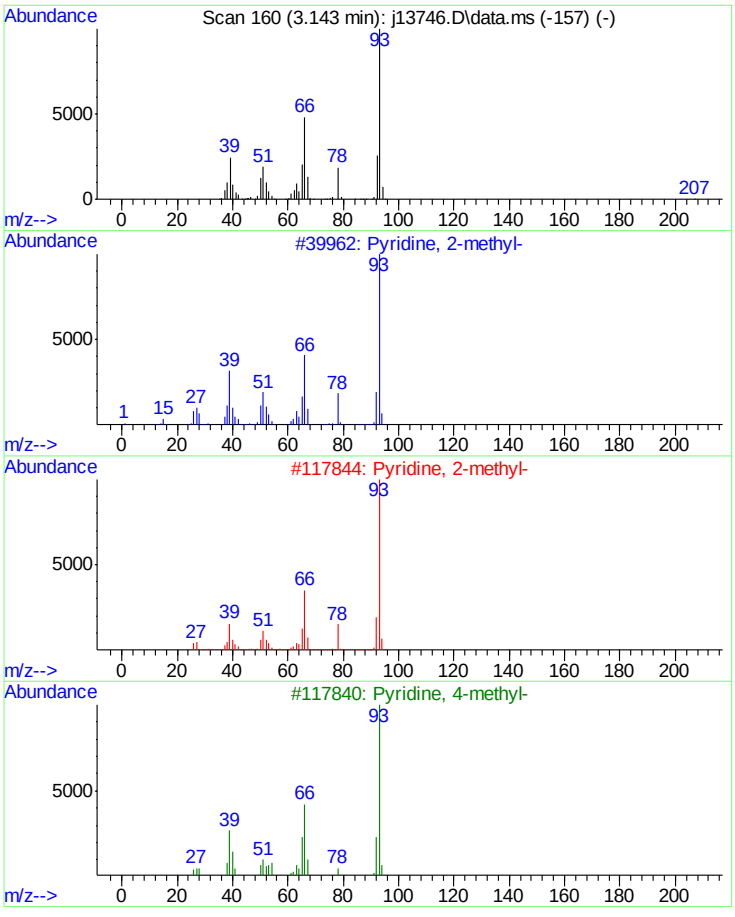
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

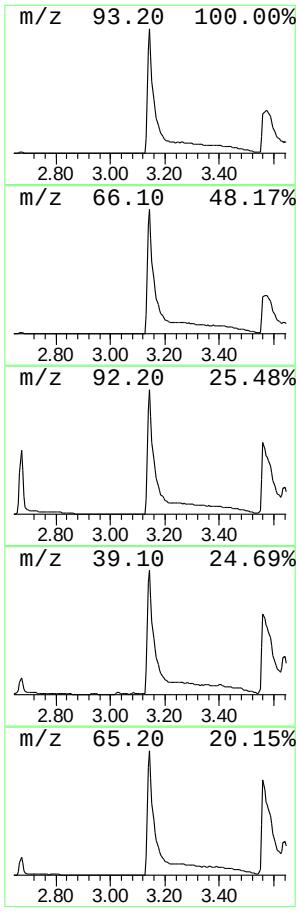
****

Peak Number 1 Pyridine, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.143	72.30 ug/ml	6081660	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	96
2	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	95
3	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	94
4	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	94
5	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

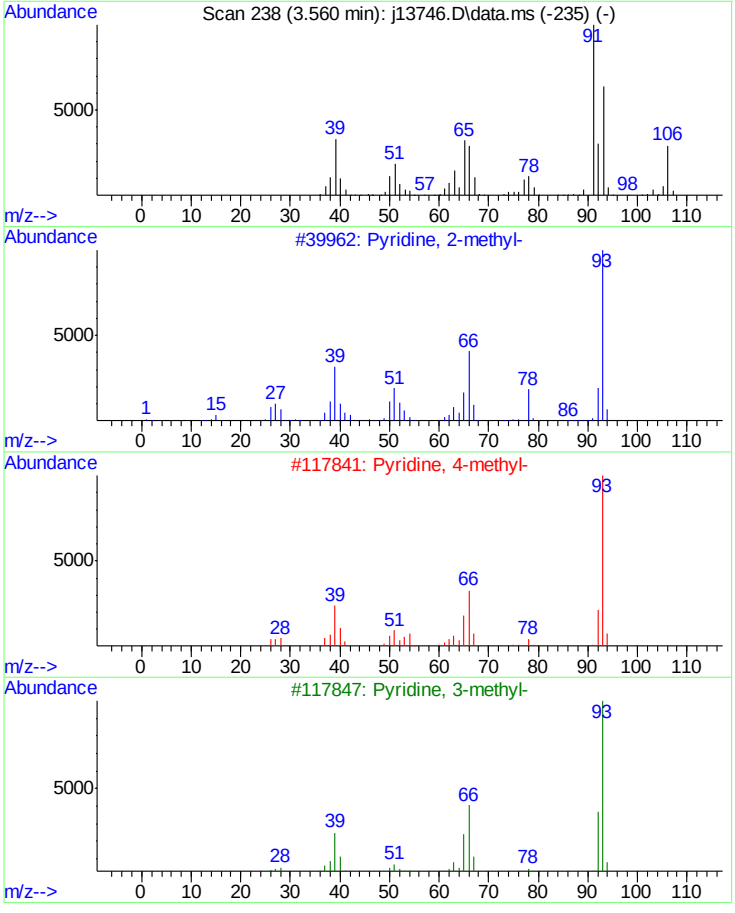
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

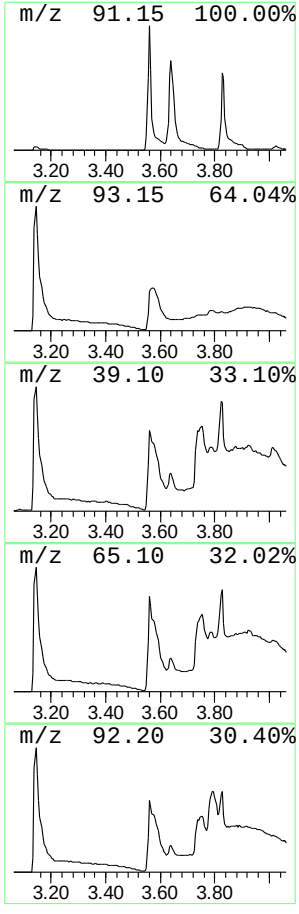
****

Peak Number 2 Pyridine, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.560	51.67 ug/ml	4346130	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	70
2	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	58
3	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	58
4	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	50
5	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

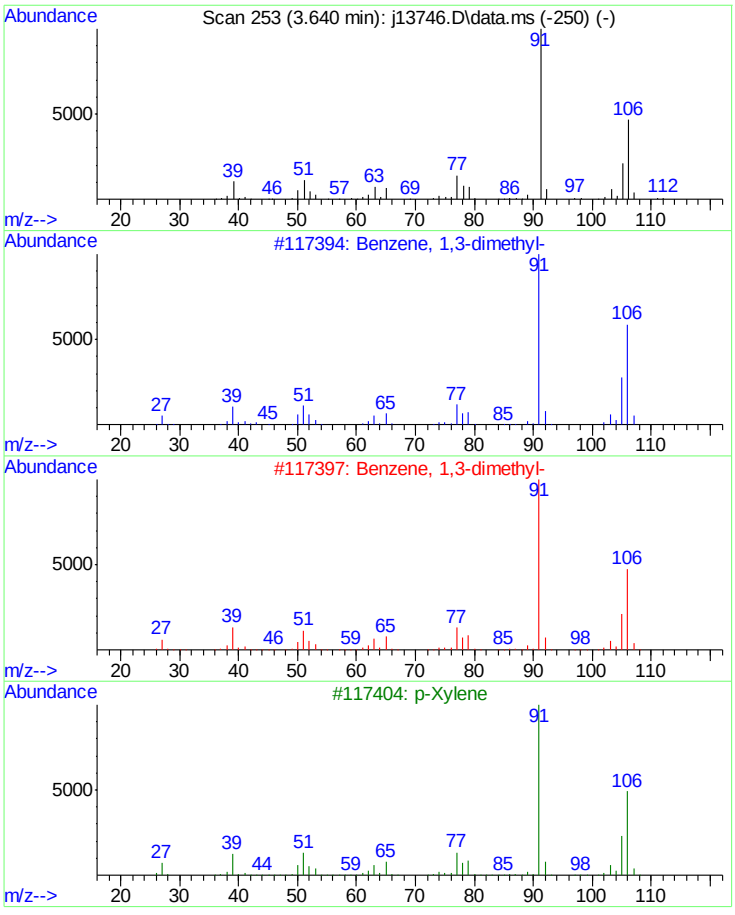
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

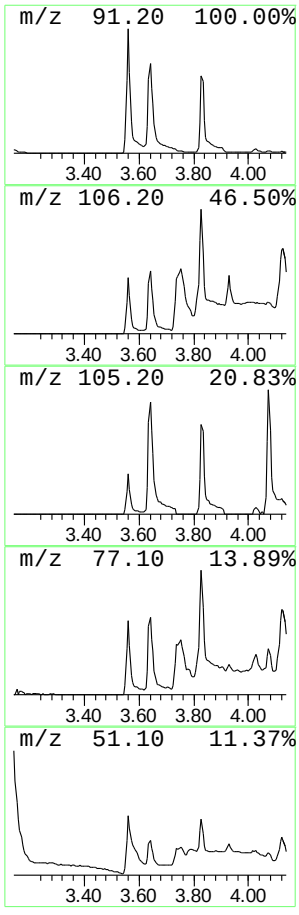
****

Peak Number 3 Benzene, 1,3-dimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.640	14.50 ug/ml	1219700	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	p-Xylene	106	C8H10	000106-42-3	97
4	p-Xylene	106	C8H10	000106-42-3	95
5	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

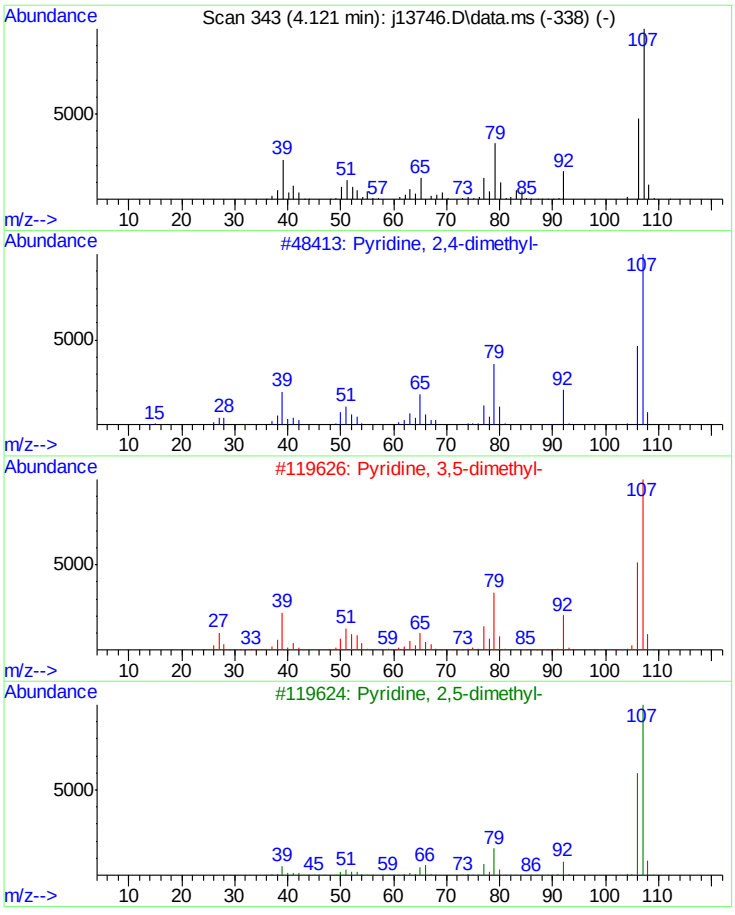
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

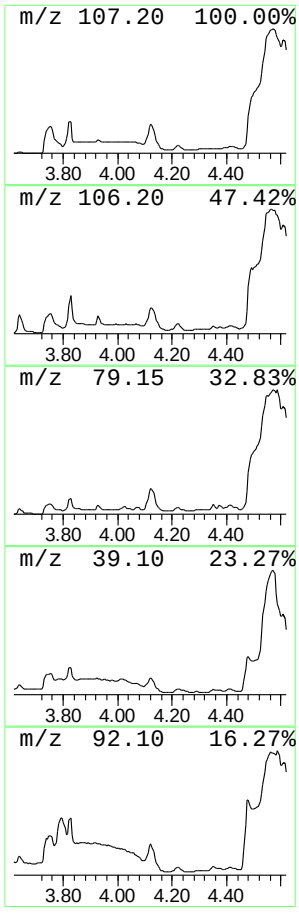
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Pyridine, 2,4-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.121	35.60 ug/ml	2994520	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	95
2	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	94
3	Pyridine, 2,5-dimethyl-	107	C7H9N	000589-93-5	91
4	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	91
5	Pyridine, 3,4-dimethyl-	107	C7H9N	000583-58-4	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

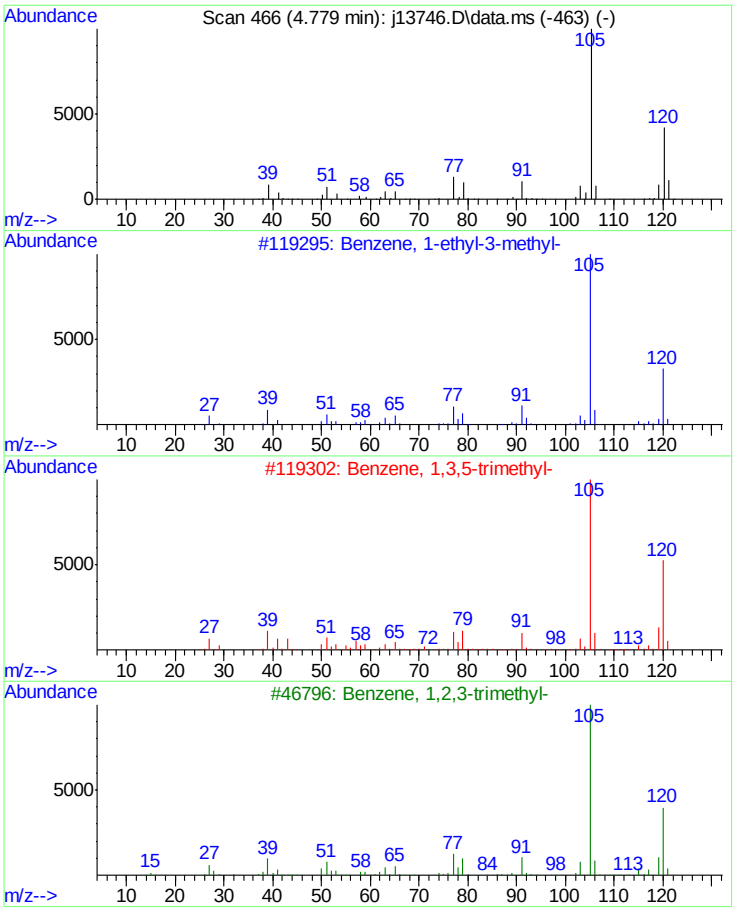
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

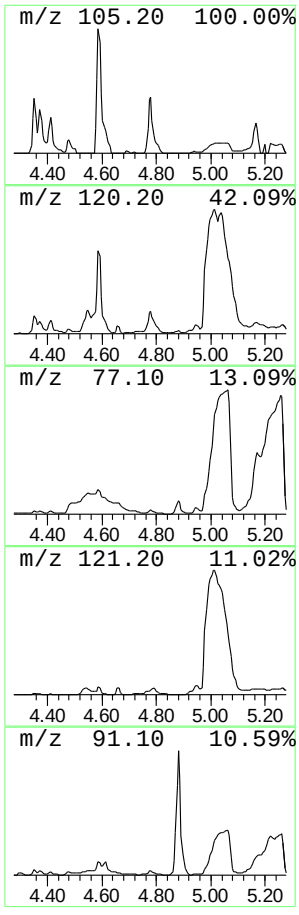
****

Peak Number 5 Benzene, 1-ethyl-3-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.779	15.33 ug/ml	1289640	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	90
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	90
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

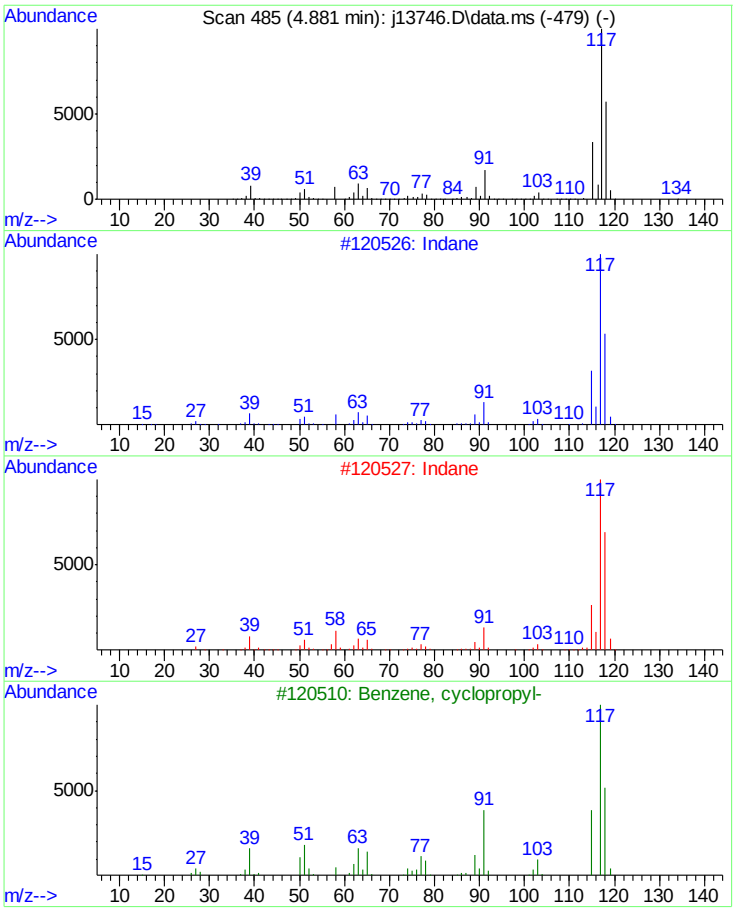
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

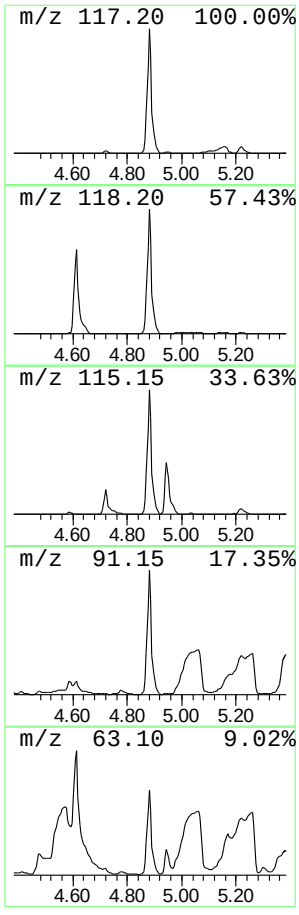
****

Peak Number 6 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.881	175.02 ug/ml	14723000	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Indane	118	C9H10	000496-11-7	81
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

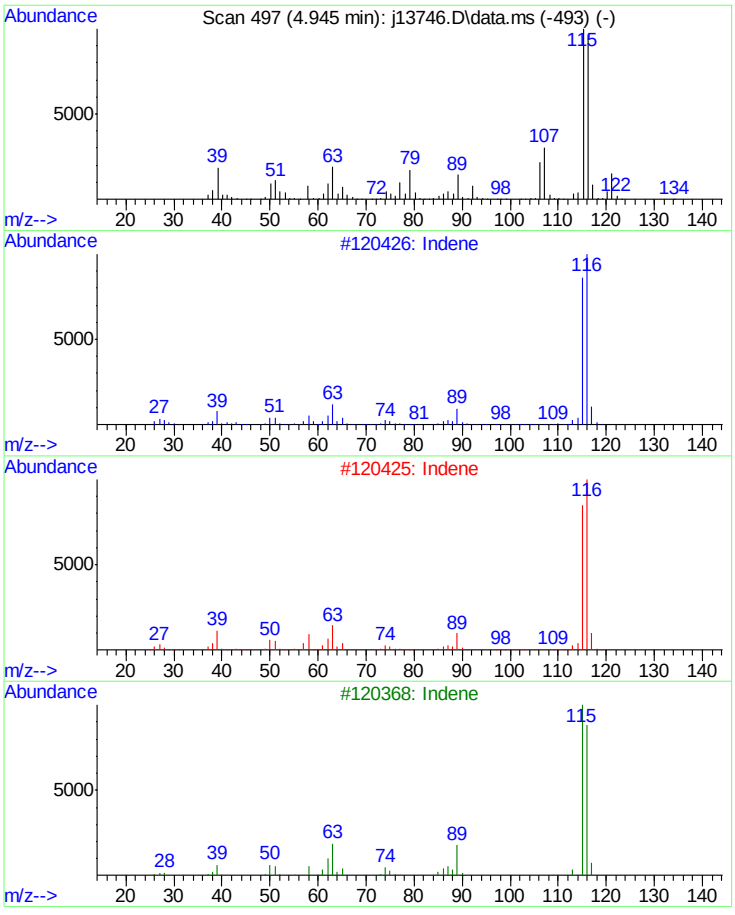
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

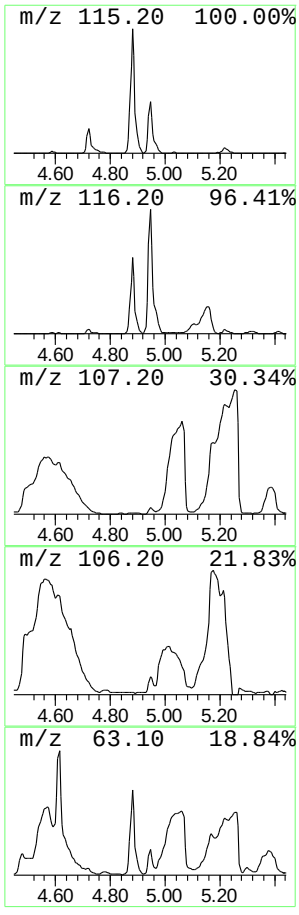
****

Peak Number 7 Indene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.945	40.01 ug/ml	3365570	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	95
2	Indene	116	C9H8	000095-13-6	94
3	Indene	116	C9H8	000095-13-6	93
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	93
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	89





Library Search Compound Report

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ALS Vial : 22 Sample Multiplier: 1

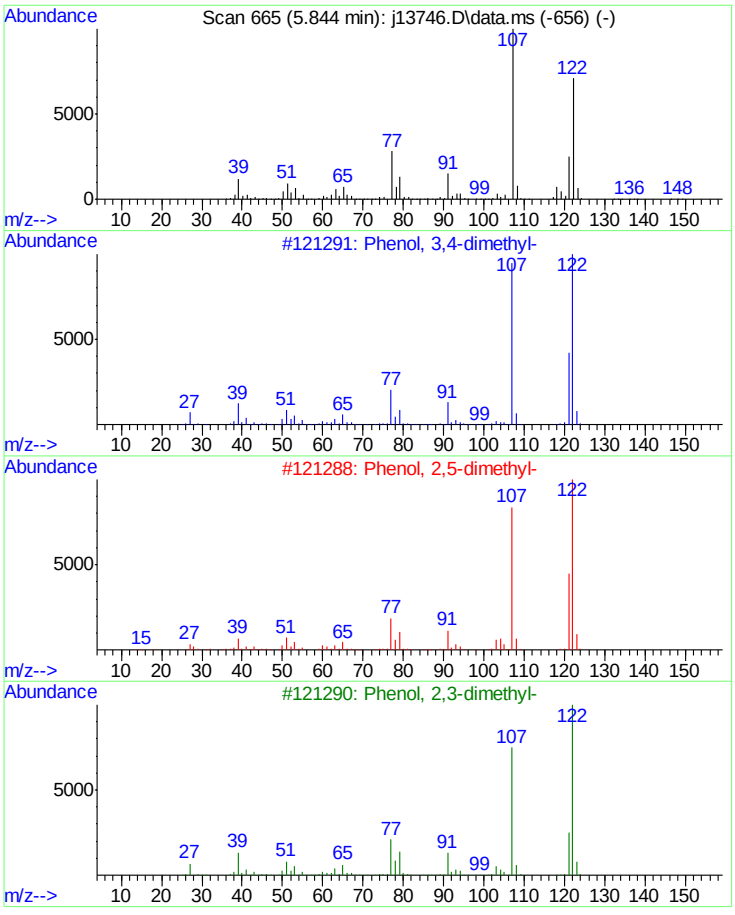
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

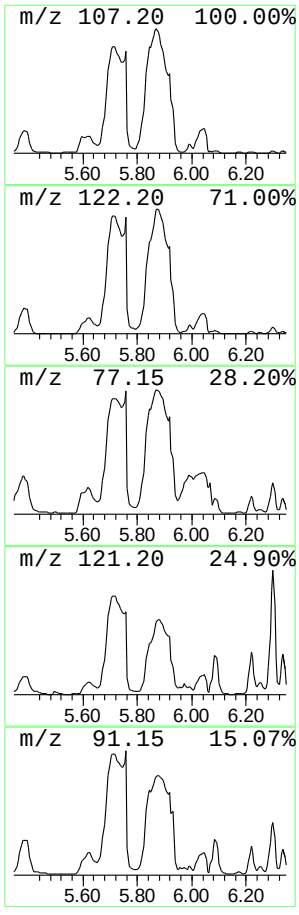
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Phenol, 3,4-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.844	15.46 ug/ml	21493100	Naphthalene-d8	5.977

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	95
2	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	91
3	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	90
4	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	90
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	90





Library Search Compound Report

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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

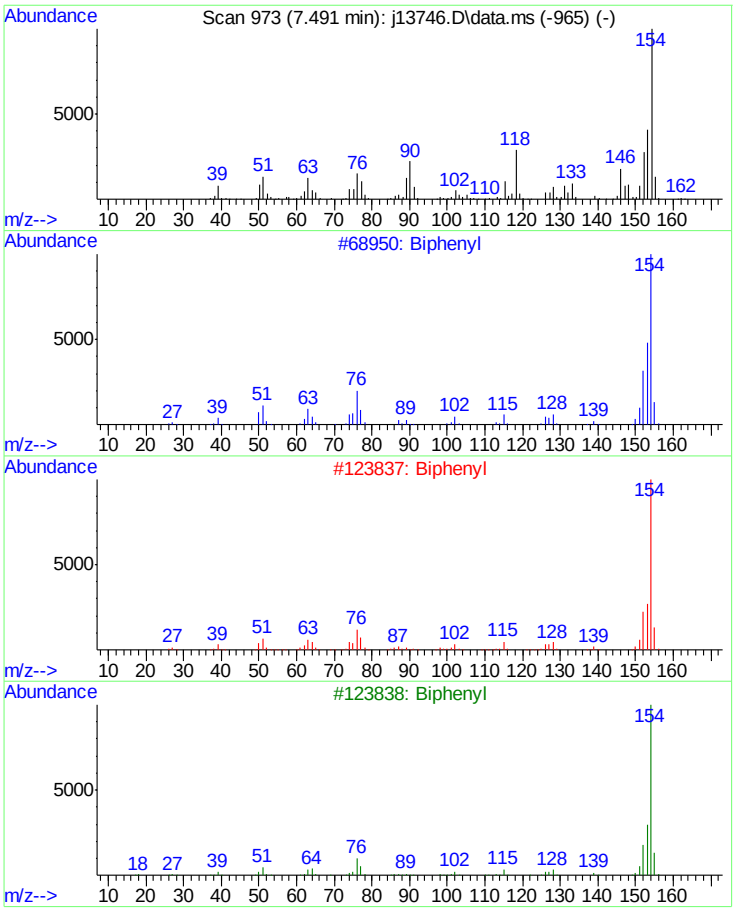
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

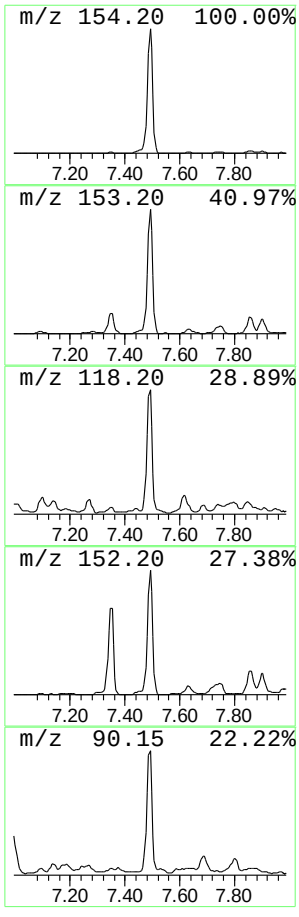
****

Peak Number 10 Biphenyl Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.491	17.24 ug/ml	2088770	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl	154	C12H10	000092-52-4	95
2	Biphenyl	154	C12H10	000092-52-4	86
3	Biphenyl	154	C12H10	000092-52-4	60
4	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	53
5	Biphenyl	154	C12H10	000092-52-4	50





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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

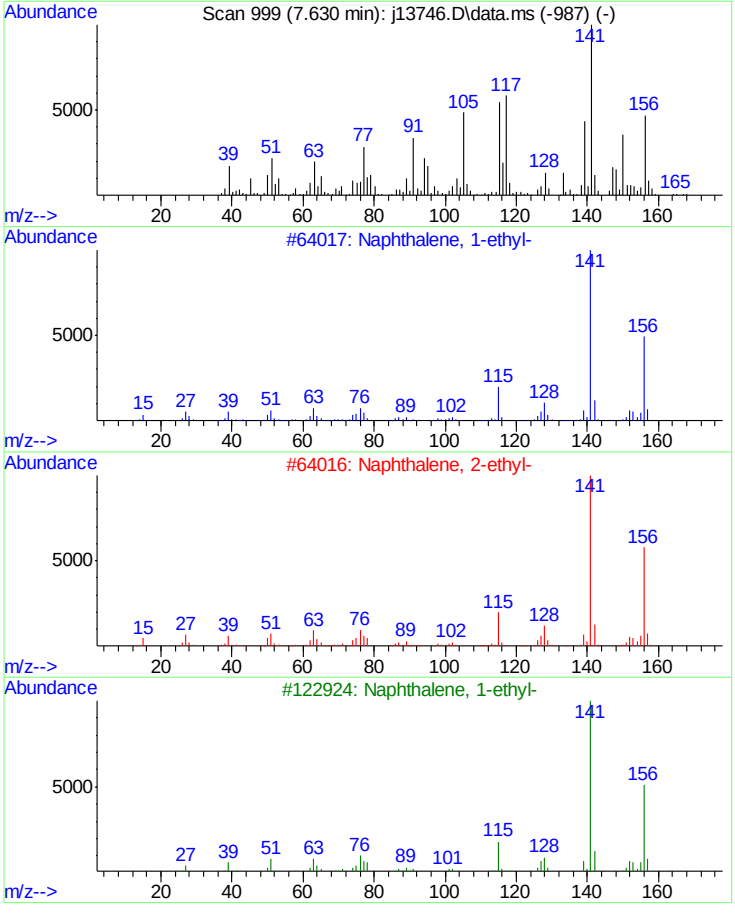
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

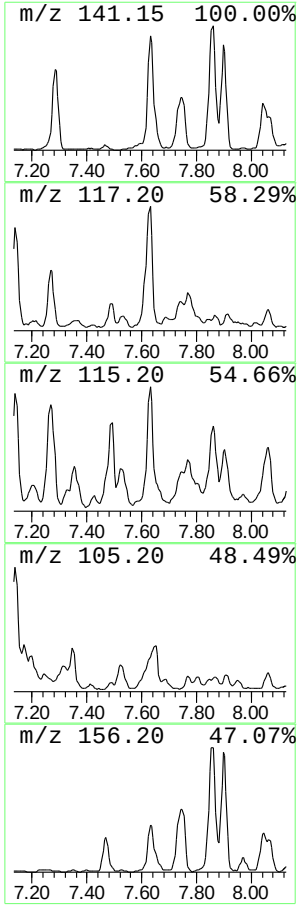
****

Peak Number 11 Naphthalene, 1-ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.630	25.66 ug/ml	3108820	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	83
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	83
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	83
4	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	55
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	50





Library Search Compound Report

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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

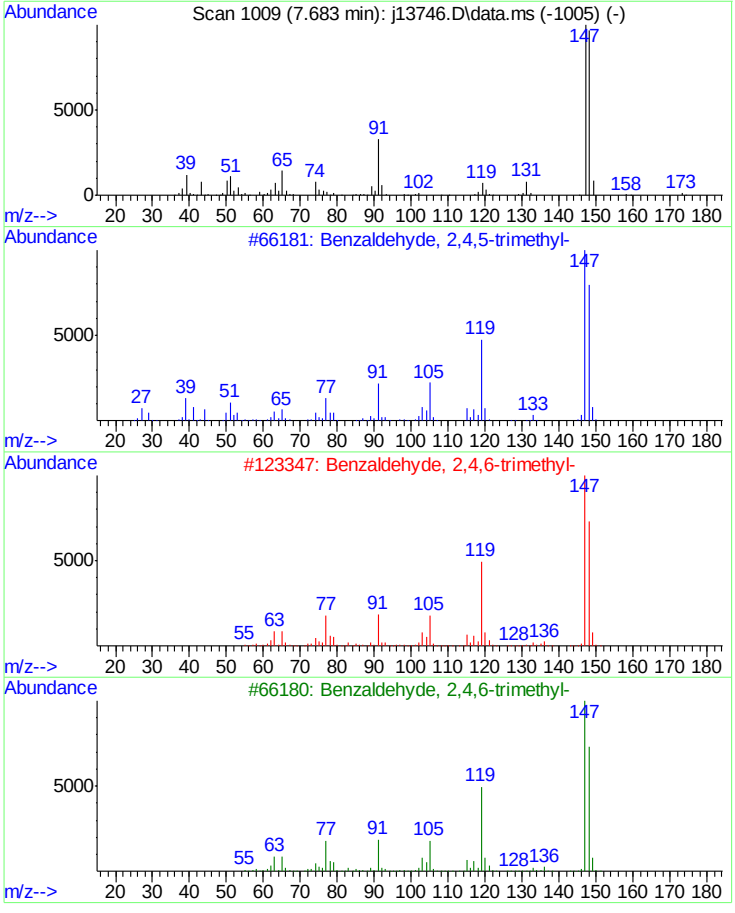
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

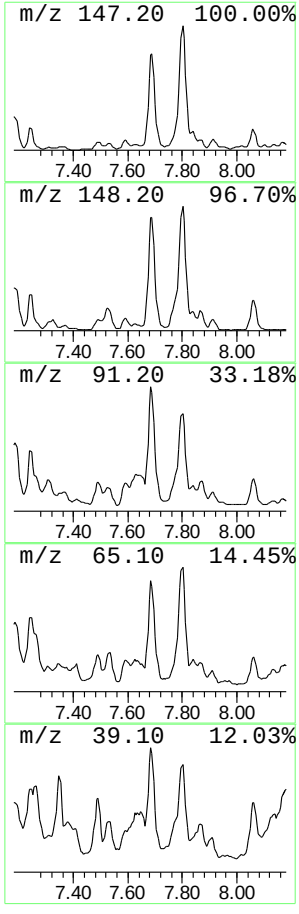
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Benzaldehyde, 2,4,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.683	19.94 ug/ml	2415280	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	72
2	Benzaldehyde, 2,4,6-trimethyl-	148	C10H12O	000487-68-3	72
3	Benzaldehyde, 2,4,6-trimethyl-	148	C10H12O	000487-68-3	72
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	64
5	Pyrrole-2-carbonitrile, 5-formyl...	148	C8H8N2O	026187-38-2	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

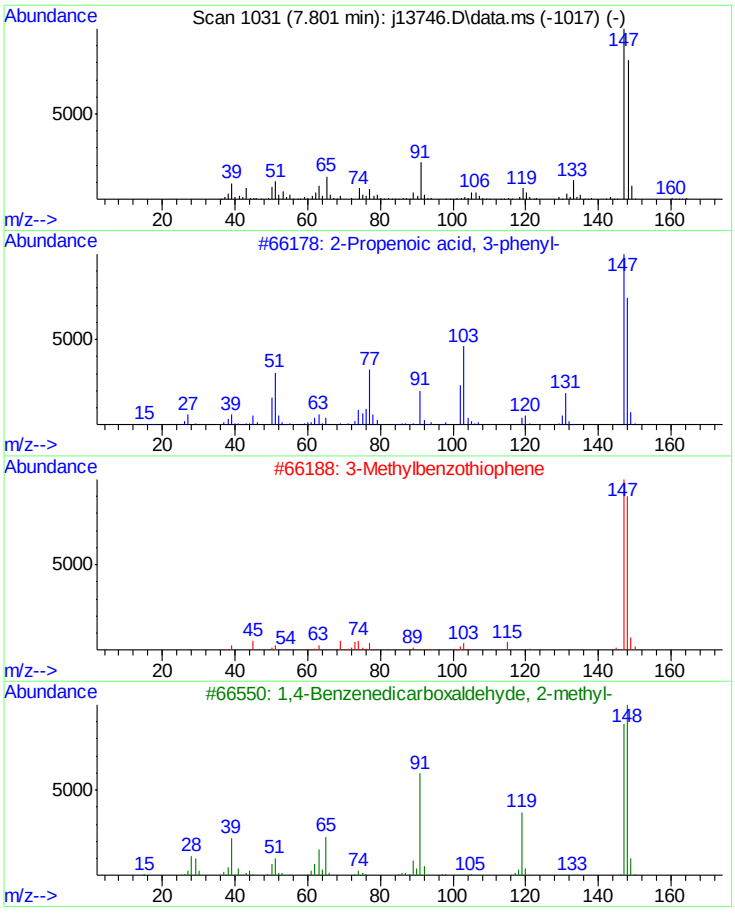
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

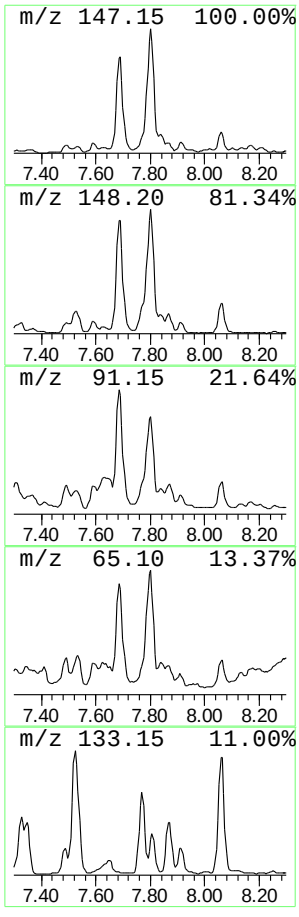
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 2-Propenoic acid, 3-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.801	31.29 ug/ml	3789870	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 3-phenyl-	148	C9H8O2	000621-82-9	72
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	64
3	1,4-Benzenedicarboxaldehyde, 2-m...	148	C9H8O2	027587-17-3	62
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	59
5	Benzene, 1-ethynyl-2-(methylthio)-	148	C9H8S	078905-08-5	59





Library Search Compound Report

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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
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Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

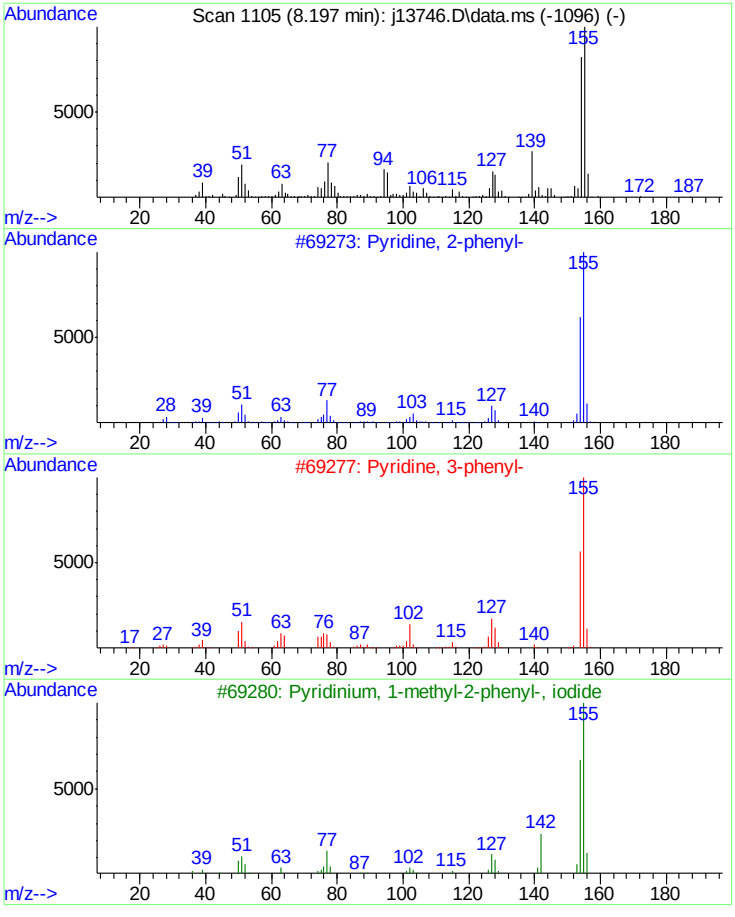
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

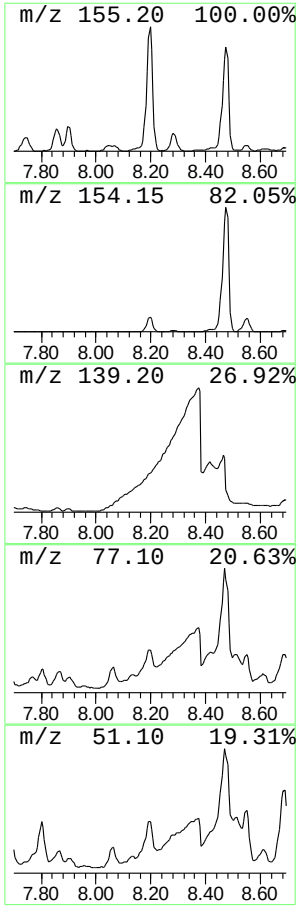
****

Peak Number 14 Pyridine, 2-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.197	18.47 ug/ml	2236960	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-phenyl-	155	C11H9N	001008-89-5	91
2	Pyridine, 3-phenyl-	155	C11H9N	001008-88-4	76
3	Pyridinium, 1-methyl-2-phenyl-, ...	297	C12H12IN	052806-02-7	68
4	Cyclobuta[b]quinoline, 1,2-dihydro-	155	C11H9N	013353-49-6	53
5	Pyridine, 3-phenyl-	155	C11H9N	001008-88-4	49





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Data Path : C:\msdchem\1\DATA\ej631\
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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 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 15 2-Naphthalenecarbonitrile Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.550	36.66 ug/ml	4440460	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	95
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	91
3	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	90
4	Naphthalene, 1-isocyano-	153	C11H7N	001984-04-9	83
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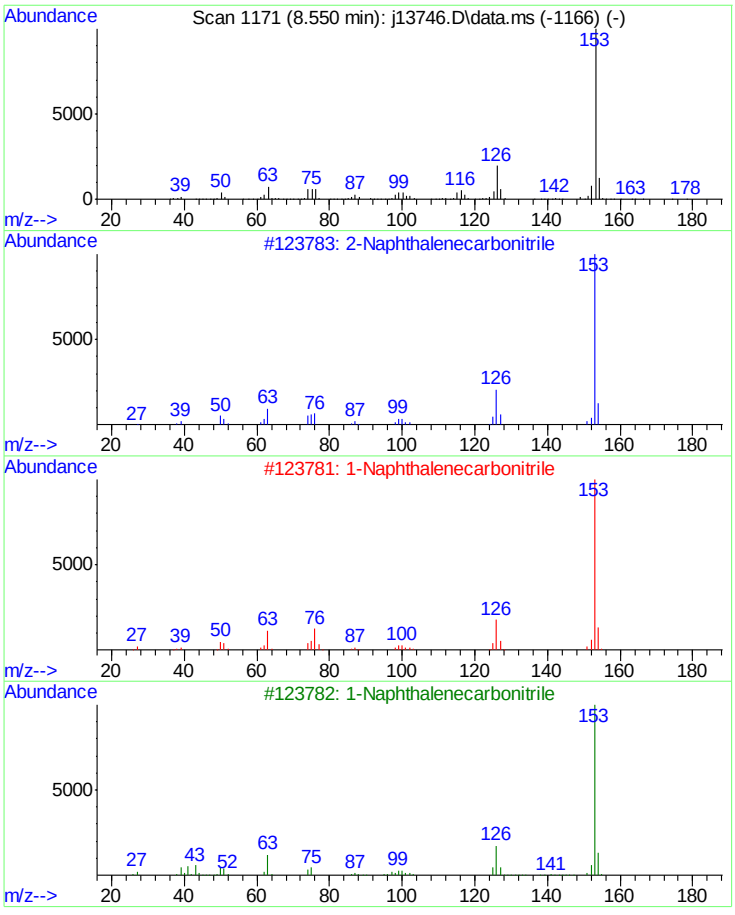

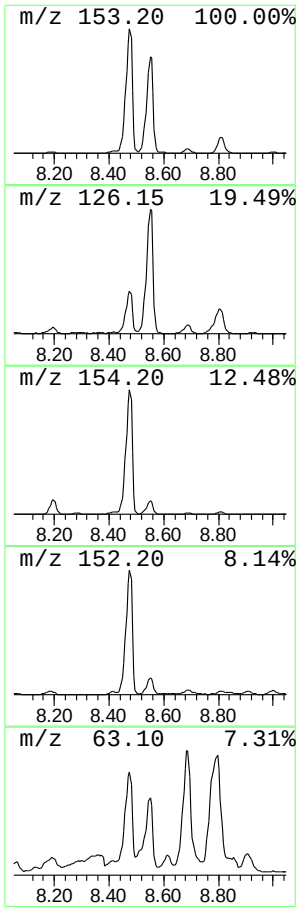

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Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

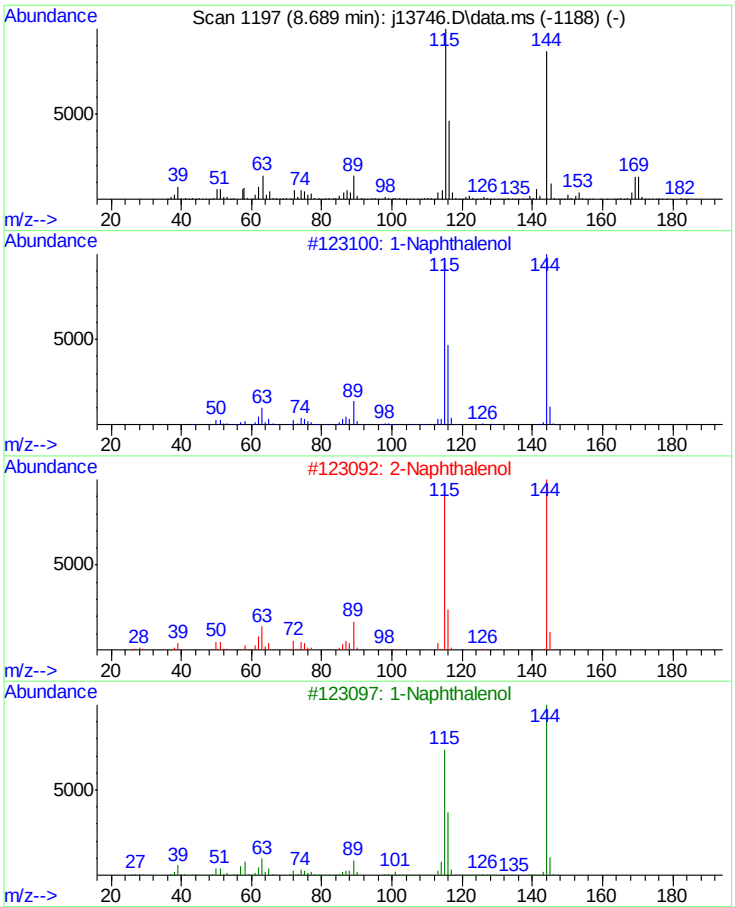
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

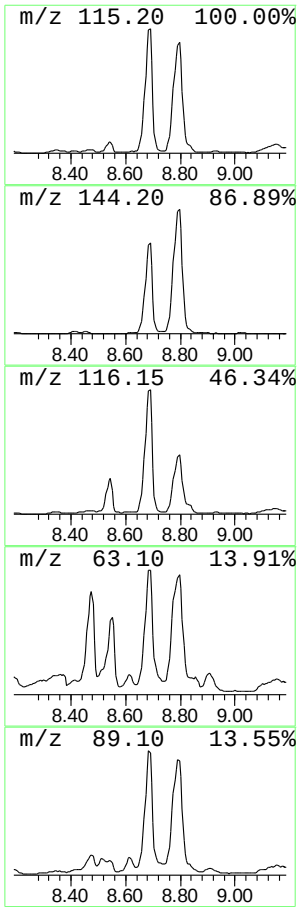
****

Peak Number 16 1-Naphthalenol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.689	84.52 ug/ml	10238500	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	2-Naphthalenol	144	C10H8O	000135-19-3	94
3	1-Naphthalenol	144	C10H8O	000090-15-3	87
4	1-Naphthalenol	144	C10H8O	000090-15-3	87
5	2-Naphthalenol	144	C10H8O	000135-19-3	87





Library Search Compound Report

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Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

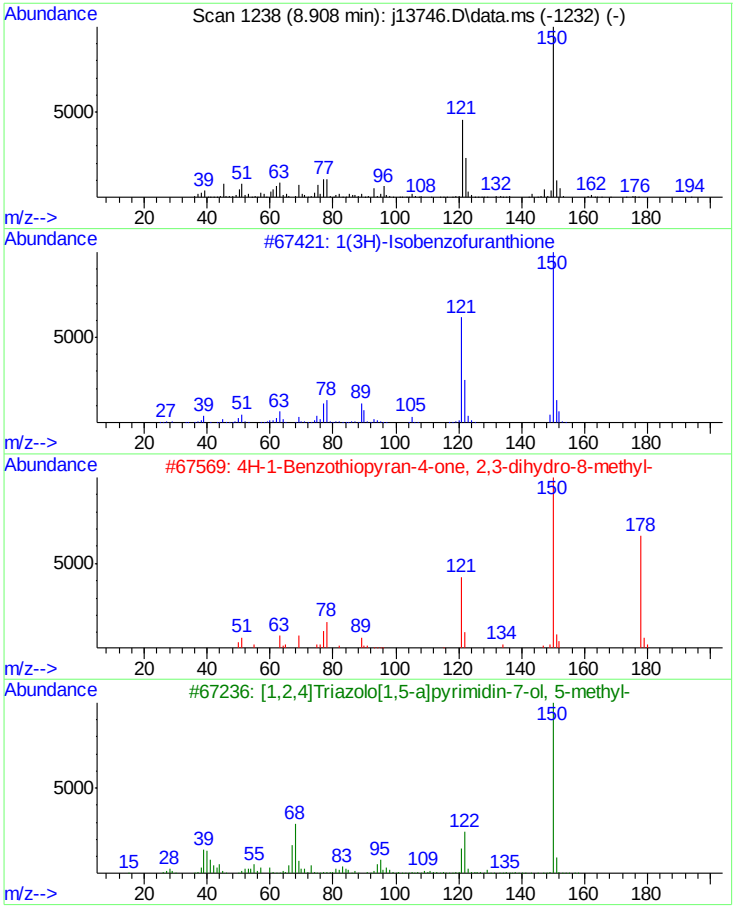
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

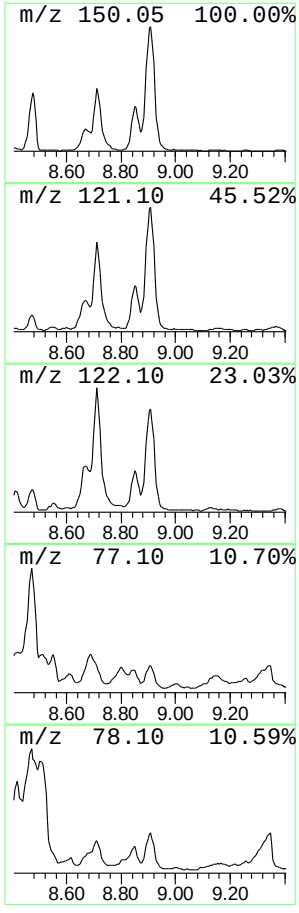
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 1(3H)-Isobenzofuranthione Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.908	17.61 ug/ml	2133500	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(3H)-Isobenzofuranthione	150	C8H6OS	004741-68-8	90
2	4H-1-Benzothiopyran-4-one, 2,3-d...	178	C10H10OS	029373-02-2	64
3	[1,2,4]Triazolo[1,5-a]pyrimidin-...	150	C6H6N4O	002503-56-2	50
4	Imidazo[5,1-f][1,2,4]triazine-2,...	150	C5H6N6	051292-20-7	50
5	4-Hydroxybenzo[b]thiophene	150	C8H6OS	003610-02-4	50





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Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

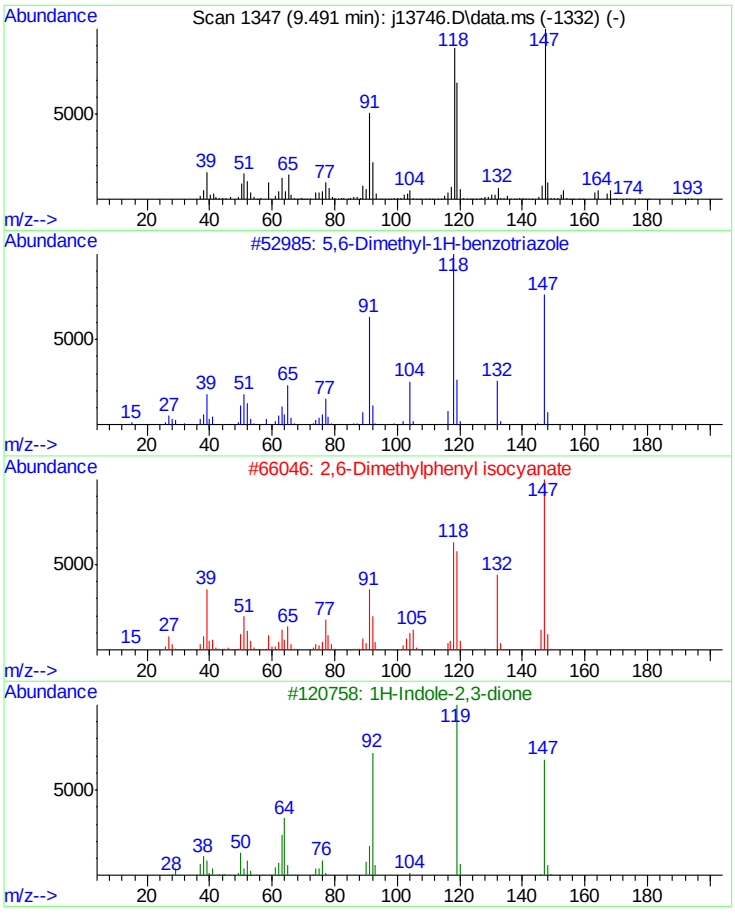
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

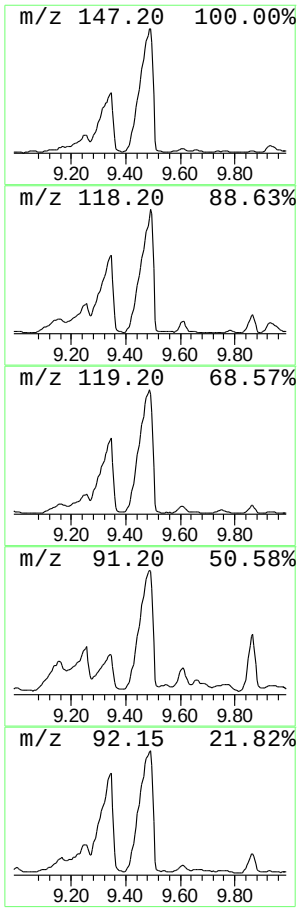
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 5,6-Dimethyl-1H-benzotriazole Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.491	40.25 ug/ml	4875820	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,6-Dimethyl-1H-benzotriazole	147	C8H9N3	004184-79-6	76
2	2,6-Dimethylphenyl isocyanate	147	C9H9NO	028556-81-2	58
3	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	55
4	1H-Indole, 2,3-dihydro-	119	C8H9N	000496-15-1	45
5	1H-Inden-1-one, 5-amino-2,3-dihy...	147	C9H9NO	003470-54-0	45





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Misc      : op13205,Ej631,1000,,,1,1,water
ALS Vial  : 22   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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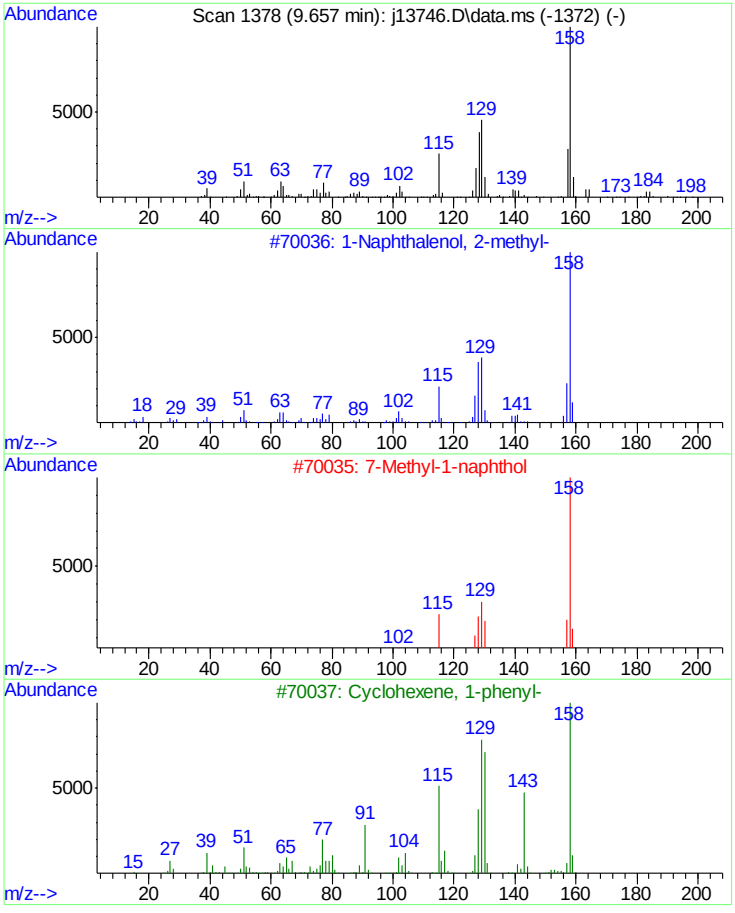
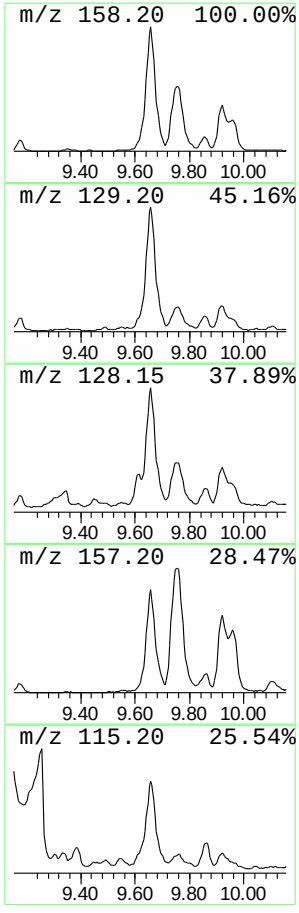
****

Peak Number 19 1-Naphthalenol, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.657	24.34 ug/ml	2947990	Acenaphthene-d10	8.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol, 2-methyl-	158	C11H10O	007469-77-4	96
2	7-Methyl-1-naphthol	158	C11H10O	006939-33-9	72
3	Cyclohexene, 1-phenyl-	158	C12H14	000771-98-2	59
4	1,8-Naphthyridine, 2,6-dimethyl-	158	C10H10N2	014757-45-0	46
5	Benzene, 2-cyclohexen-1-yl-	158	C12H14	015232-96-9	45





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

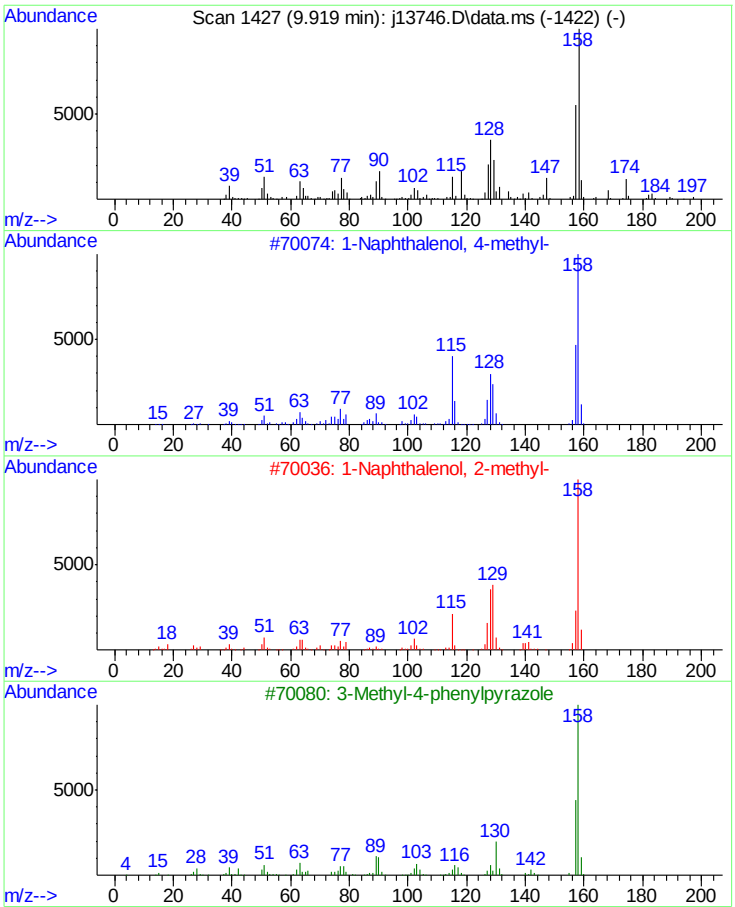
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

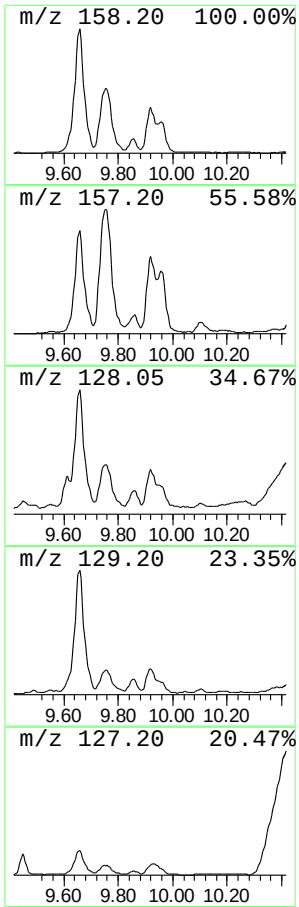
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 1-Naphthalenol, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.919	33.78 ug/ml	2132110	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol, 4-methyl-	158	C11H10O	010240-08-1	64
2	1-Naphthalenol, 2-methyl-	158	C11H10O	007469-77-4	52
3	3-Methyl-4-phenylpyrazole	158	C10H10N2	013788-84-6	49
4	1H-Pyrazole, 3-methyl-1-phenyl-	158	C10H10N2	001128-54-7	49
5	Cinnoline, 3,4-dimethyl-	158	C10H10N2	003929-83-7	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

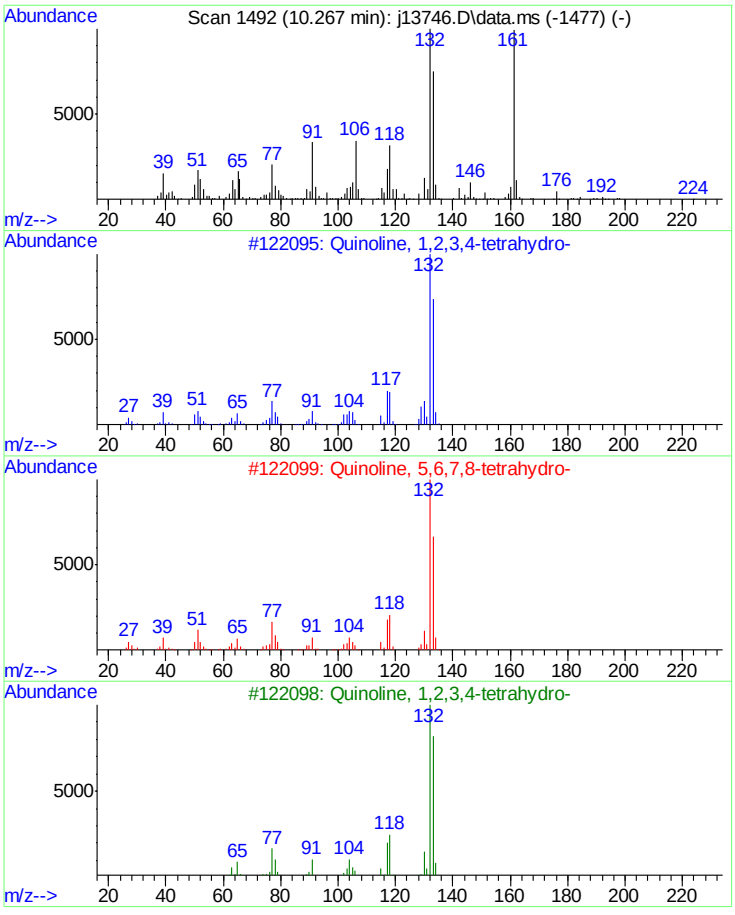
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

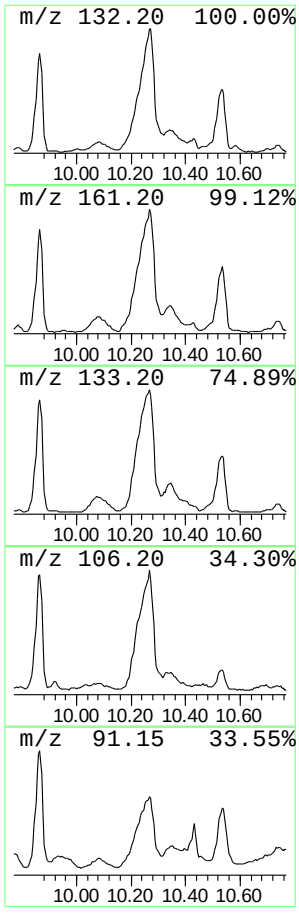
****

Peak Number 21 Quinoline, 1,2,3,4-tetrahydro- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.267	38.42 ug/ml	2424990	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	78
2	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	64
3	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	60
4	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	55
5	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	55





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

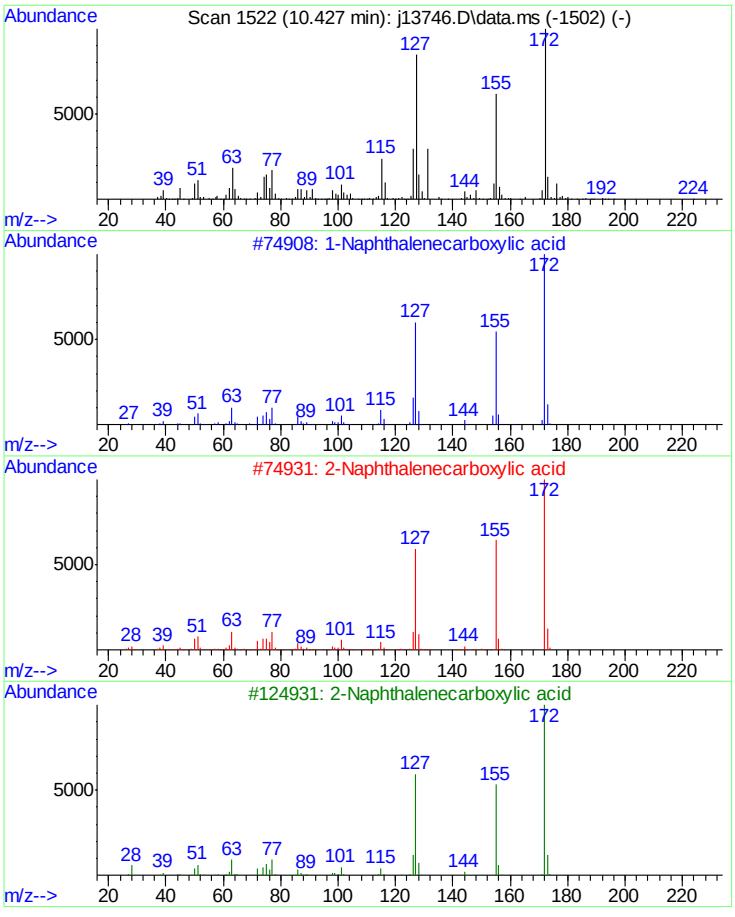
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

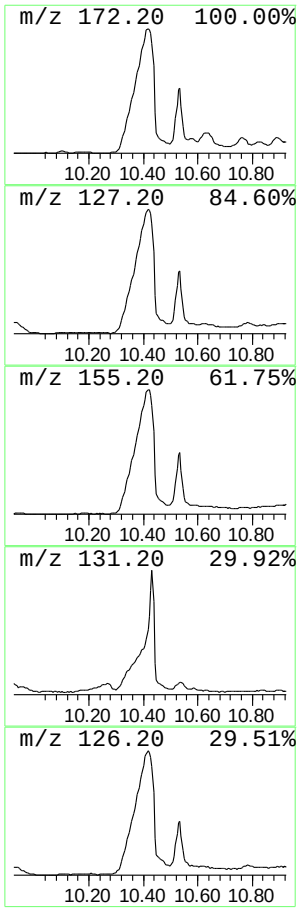
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 1-Naphthalenecarboxylic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.427	103.17 ug/ml	6512190	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	93
2	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	90
3	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	90
4	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	83
5	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	70





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

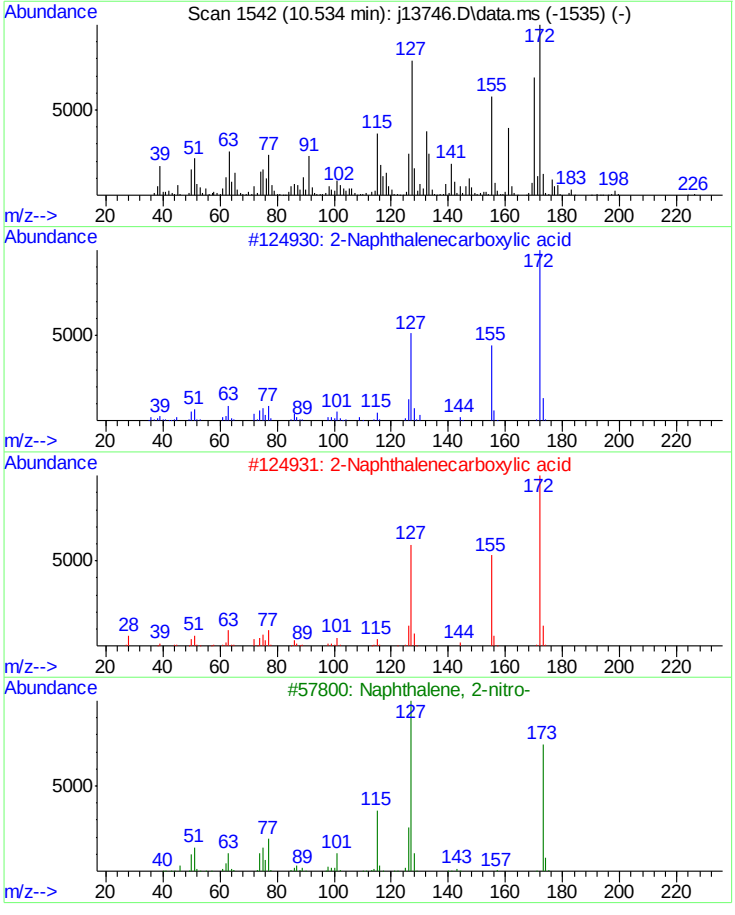
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

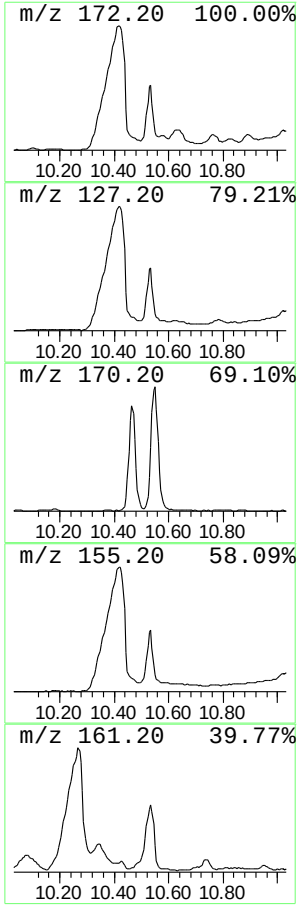
****

Peak Number 23 2-Naphthalenecarboxylic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.534	41.24 ug/ml	2603190	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	87
2	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	86
3	Naphthalene, 2-nitro-	173	C10H7NO2	000581-89-5	64
4	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	55
5	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

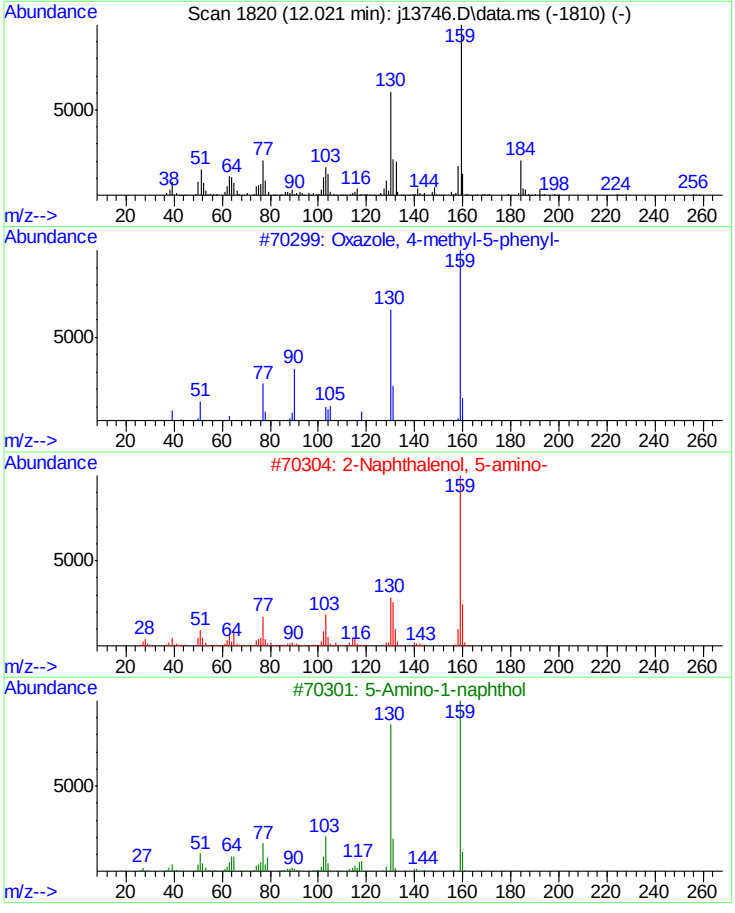
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

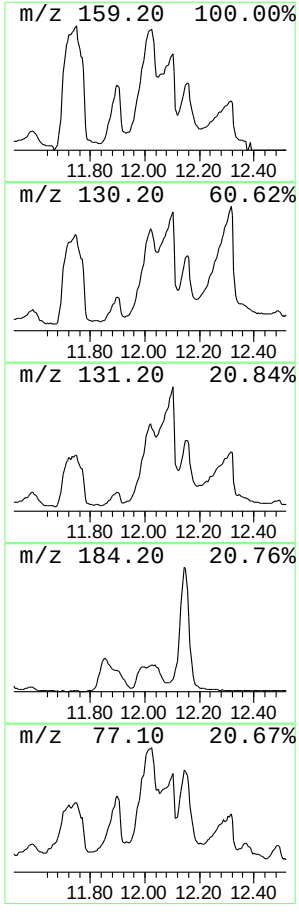
****

Peak Number 24 Oxazole, 4-methyl-5-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.021	46.38 ug/ml	2927680	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxazole, 4-methyl-5-phenyl-	159	C10H9NO	001008-29-3	76
2	2-Naphthalenol, 5-amino-	159	C10H9NO	000086-97-5	64
3	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	64
4	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	58
5	8-Quinolinol, 7-methyl-	159	C10H9NO	005541-68-4	58





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

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

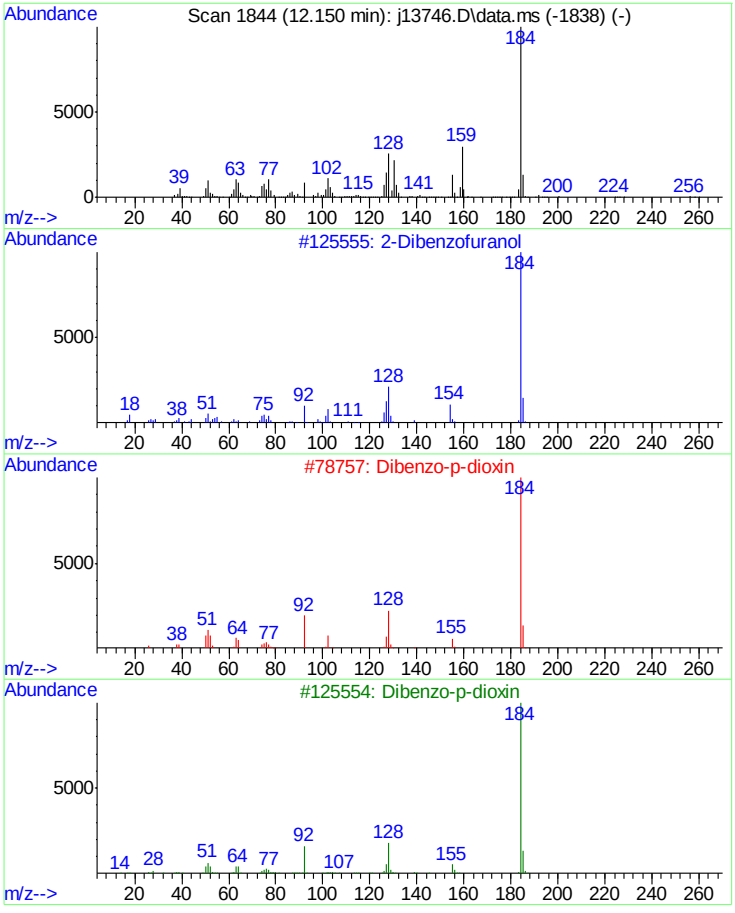
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

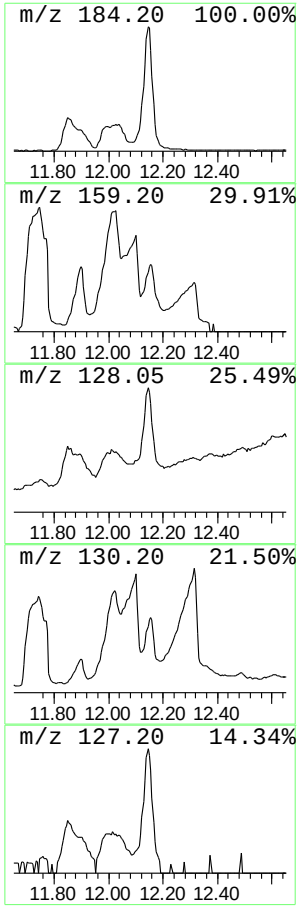
****

Peak Number 25 2-Dibenzofuranol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.150	43.78 ug/ml	2763120	Phenanthrene-d10	11.198

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	70
2	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	62
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	62
4	4(3H)-Quinazolinone, 3-(2-propyn...	184	C11H8N2O	016347-56-1	47
5	2,7-Diamino-quinoline-3-carbonit...	184	C10H8N4	1000187-24-4	46





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13746.D
Acq On : 9 Oct 2009 7:57 pm
Operator : sheilac
Sample : t39314-5
Misc : op13205,Ej631,1000,,,1,1,water
ALS Vial : 22 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
Pyridine, 2-met...	3.143	72.3	ug/ml	6081660	1	4.720	3364800	40.0
Pyridine, 4-met...	3.560	51.7	ug/ml	4346130	1	4.720	3364800	40.0
Benzene, 1,3-di...	3.640	14.5	ug/ml	1219700	1	4.720	3364800	40.0
Pyridine, 2,4-d...	4.121	35.6	ug/ml	2994520	1	4.720	3364800	40.0
Benzene, 1-ethy...	4.779	15.3	ug/ml	1289640	1	4.720	3364800	40.0
Indane	4.881	175.0	ug/ml	14723000	1	4.720	3364800	40.0
Indene	4.945	40.0	ug/ml	3365570	1	4.720	3364800	40.0
Phenol, 3,4-dim...	5.844	15.5	ug/ml	21493100	2	5.977	55618900	40.0
Biphenyl	7.491	17.2	ug/ml	2088770	3	8.416	4845350	40.0
Naphthalene, 1-...	7.630	25.7	ug/ml	3108820	3	8.416	4845350	40.0
Benzaldehyde, 2...	7.683	19.9	ug/ml	2415280	3	8.416	4845350	40.0
2-Propenoic aci...	7.801	31.3	ug/ml	3789870	3	8.416	4845350	40.0
Pyridine, 2-phe...	8.197	18.5	ug/ml	2236960	3	8.416	4845350	40.0
2-Naphthaleneca...	8.550	36.7	ug/ml	4440460	3	8.416	4845350	40.0
1-Naphthalenol	8.689	84.5	ug/ml	10238500	3	8.416	4845350	40.0
1(3H)-Isobenzof...	8.908	17.6	ug/ml	2133500	3	8.416	4845350	40.0
5,6-Dimethyl-1H...	9.491	40.3	ug/ml	4875820	3	8.416	4845350	40.0
1-Naphthalenol,...	9.657	24.3	ug/ml	2947990	3	8.416	4845350	40.0
1-Naphthalenol,...	9.919	33.8	ug/ml	2132110	4	11.198	2524760	40.0
Quinoline, 1,2,...	10.267	38.4	ug/ml	2424990	4	11.198	2524760	40.0
1-Naphthaleneca...	10.427	103.2	ug/ml	6512190	4	11.198	2524760	40.0
2-Naphthaleneca...	10.534	41.2	ug/ml	2603190	4	11.198	2524760	40.0
Oxazole, 4-meth...	12.021	46.4	ug/ml	2927680	4	11.198	2524760	40.0
2-Dibenzofuranol	12.150	43.8	ug/ml	2763120	4	11.198	2524760	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 09 14:46:10 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

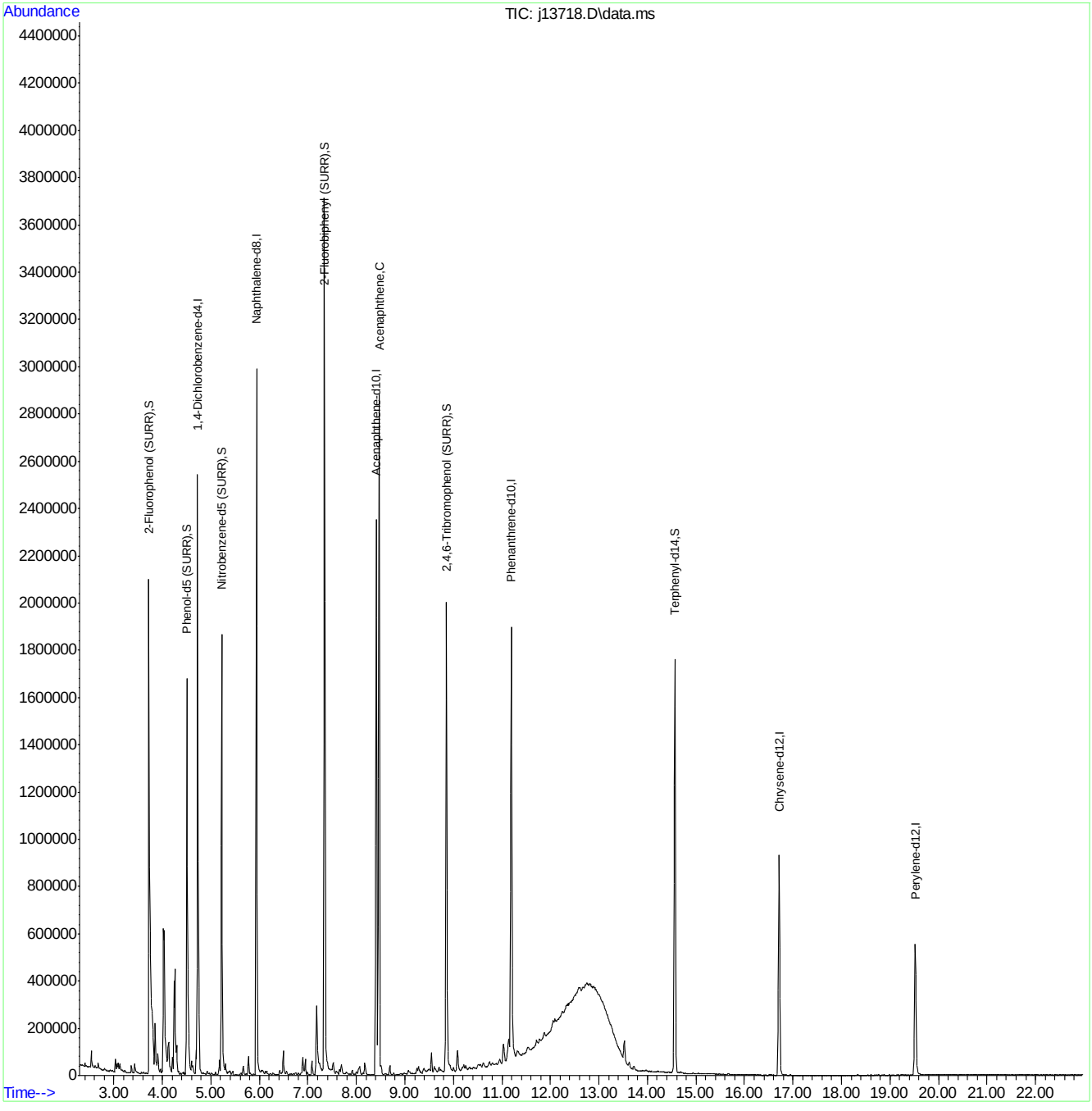
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	431786	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	1496900	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	787415	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1102795	40.00	ug/ml	-0.01
71) Chrysene-d12	16.717	240	687131	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	455399	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	894927	66.05	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 66.05%#			
5) Phenol-d5 (SURR)	4.501	99	793176	46.84	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 46.84%			
21) Nitrobenzene-d5 (SURR)	5.223	82	727248	46.33	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 92.66%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1280237	41.74	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 83.48%			
62) 2,4,6-Tribromophenol (...	9.860	330	346925	93.50	ug/ml	-0.10
Spiked Amount 100.000	Range 32 - 128		Recovery = 93.50%			
74) Terphenyl-d14	14.567	244	878808	53.56	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 107.12%			
Target Compounds						Qvalue
47) Acenaphthene	8.470	154	987850	45.09	ug/ml	100

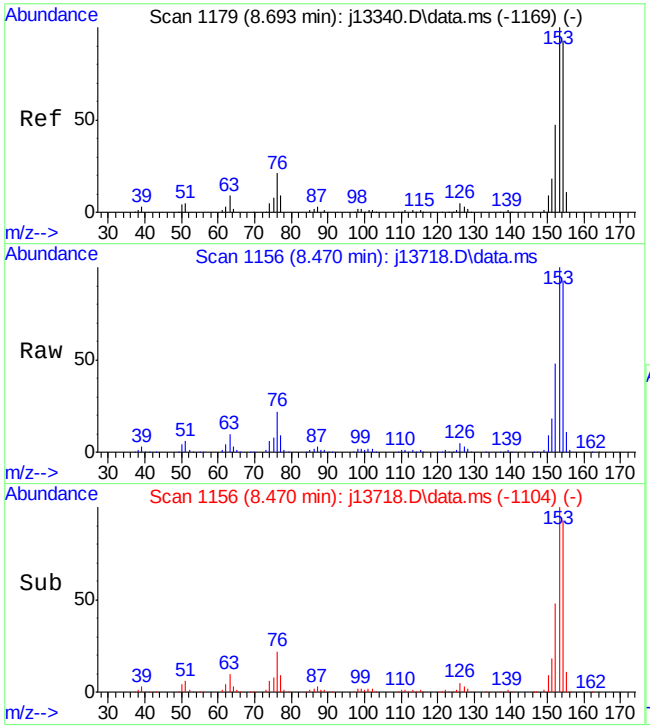
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 09 14:46:10 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

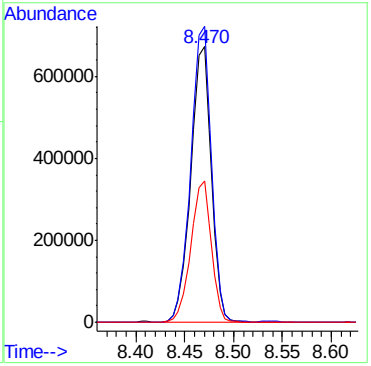




#47
Acenaphthene
Concen: 45.09 ug/ml
RT: 8.470 min Scan# 1156
Delta R.T. -0.223 min
Lab File: j13718.D
Acq: 9 Oct 2009 2:28 am

Tgt Ion:154 Resp: 987850

Ion	Ratio	Lower	Upper
154	100		
153	107.4	87.9	127.9
152	51.2	31.3	71.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 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: j13718.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.533	43	46	51	rBV	68803	65412	1.31%	0.140%
2	3.030	137	139	143	rBV	55399	57307	1.15%	0.123%
3	3.426	210	213	226	rVB	39296	54560	1.09%	0.117%
4	3.720	265	268	289	rBV	2092682	3768146	75.45%	8.092%
5	3.849	289	292	297	rVV	210773	262961	5.27%	0.565%
6	3.907	300	303	310	rVB	77798	93128	1.86%	0.200%
7	4.020	321	324	326	rBV2	602377	642202	12.86%	1.379%
8	4.127	340	344	355	rVB2	126560	241239	4.83%	0.518%
9	4.207	355	359	362	rBV	63337	67885	1.36%	0.146%
10	4.239	362	365	366	rVV	385400	309693	6.20%	0.665%
11	4.255	366	368	373	rVV	433314	490032	9.81%	1.052%
12	4.293	373	375	380	rVB	111264	117115	2.35%	0.252%
13	4.501	411	414	430	rBV	1676189	2518431	50.43%	5.408%
14	4.603	430	433	435	rVV2	55020	62774	1.26%	0.135%
15	4.694	446	450	452	rVV	102327	107232	2.15%	0.230%
16	4.726	452	456	473	rVB	2535172	2988936	59.85%	6.419%
17	5.180	529	541	544	rBV2	63431	105355	2.11%	0.226%
18	5.223	544	549	561	rVV	1862346	2373435	47.53%	5.097%
19	5.298	561	563	570	rVB3	40882	51715	1.04%	0.111%
20	5.667	627	632	638	rBV5	37116	58193	1.17%	0.125%
21	5.774	647	652	657	rBV2	78119	92226	1.85%	0.198%
22	5.940	677	683	697	rBV	2990347	3582136	71.73%	7.693%
23	6.491	781	786	794	rVB	98424	134397	2.69%	0.289%
24	6.892	857	861	865	rBV	67504	89603	1.79%	0.192%
25	6.945	867	871	875	rVB	64590	80179	1.61%	0.172%
26	7.079	891	896	907	rBV3	60879	93800	1.88%	0.201%
27	7.175	907	914	924	rBV2	293856	617602	12.37%	1.326%
28	7.341	936	945	962	rBV	3695209	4993903	100.00%	10.724%
29	7.523	974	979	987	rVB3	46762	83083	1.66%	0.178%
30	7.689	1006	1010	1017	rVB2	37553	62802	1.26%	0.135%
31	8.063	1072	1080	1087	rVB4	33845	83046	1.66%	0.178%
32	8.176	1095	1101	1106	rBV	49096	67586	1.35%	0.145%
33	8.411	1137	1145	1150	rBV	2348578	3749928	75.09%	8.053%
34	8.470	1150	1156	1161	rVV	2877276	4241100	84.93%	9.108%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On    :  9 Oct 2009   2:28 am
Operator  : sheilac
Sample    : t39314-6
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 17   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     :
```

35	8.507	1161	1163	1172	rVB3	40573	60112	1.20%	0.129%
36	8.689	1191	1197	1203	rVB2	39294	58978	1.18%	0.127%
37	9.390	1321	1328	1334	rBV9	20773	53230	1.07%	0.114%
38	9.545	1353	1357	1362	rVB	81667	101566	2.03%	0.218%
39	9.855	1406	1415	1434	rBV	1987458	3476611	69.62%	7.466%
40	10.085	1451	1458	1469	rBV2	87547	179103	3.59%	0.385%
41	11.027	1629	1634	1644	rBV	79732	174287	3.49%	0.374%
42	11.139	1646	1655	1658	rBV	95317	218477	4.37%	0.469%
43	11.192	1658	1665	1682	rVB2	1821851	3412878	68.34%	7.329%
44	13.519	2096	2100	2115	rVB4	102407	218450	4.37%	0.469%
45	14.567	2287	2296	2307	rVB2	1749669	3085538	61.79%	6.626%
46	16.712	2688	2697	2715	rBV	933106	1900828	38.06%	4.082%
47	19.520	3212	3222	3242	rBV	555586	1219268	24.42%	2.618%

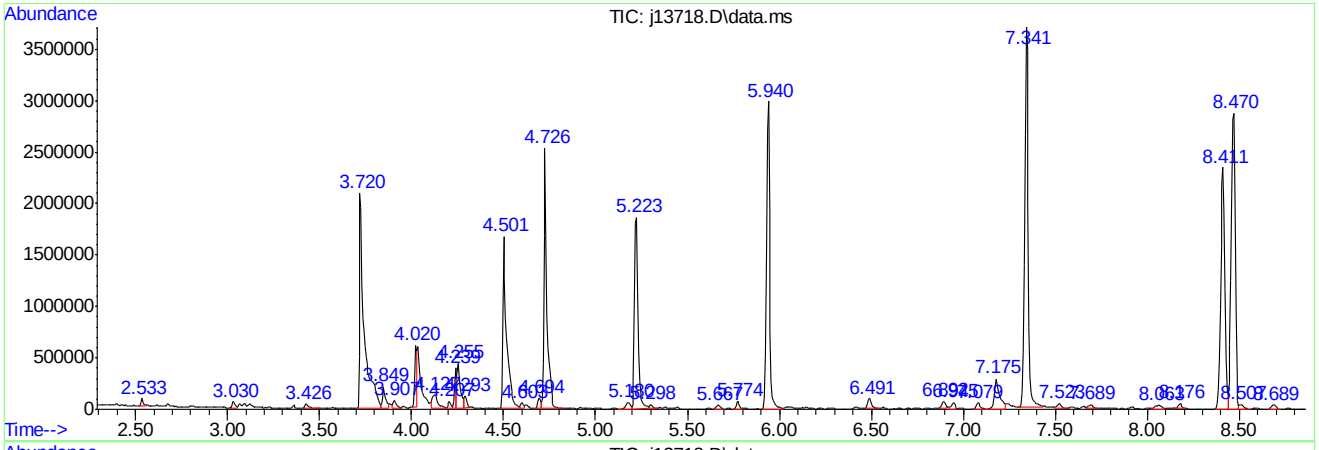
Sum of corrected areas: 46566468

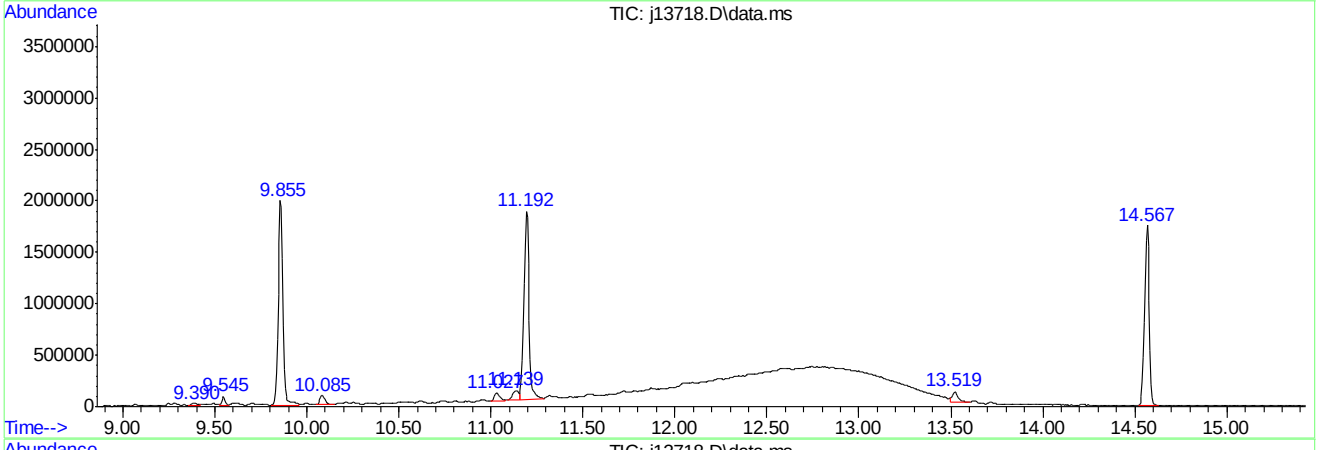
LSC Report - Integrated Chromatogram

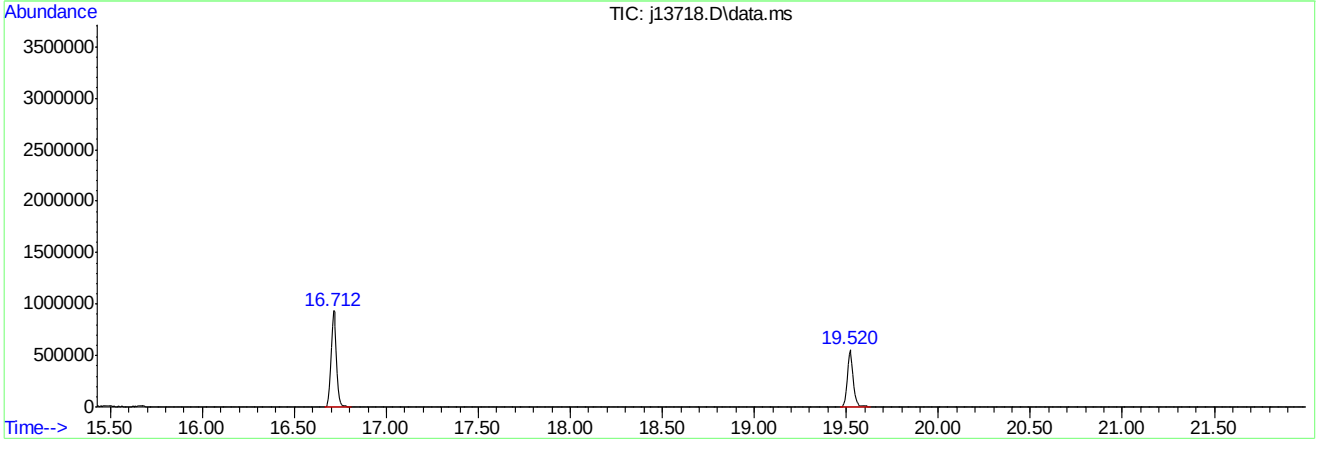
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

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







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

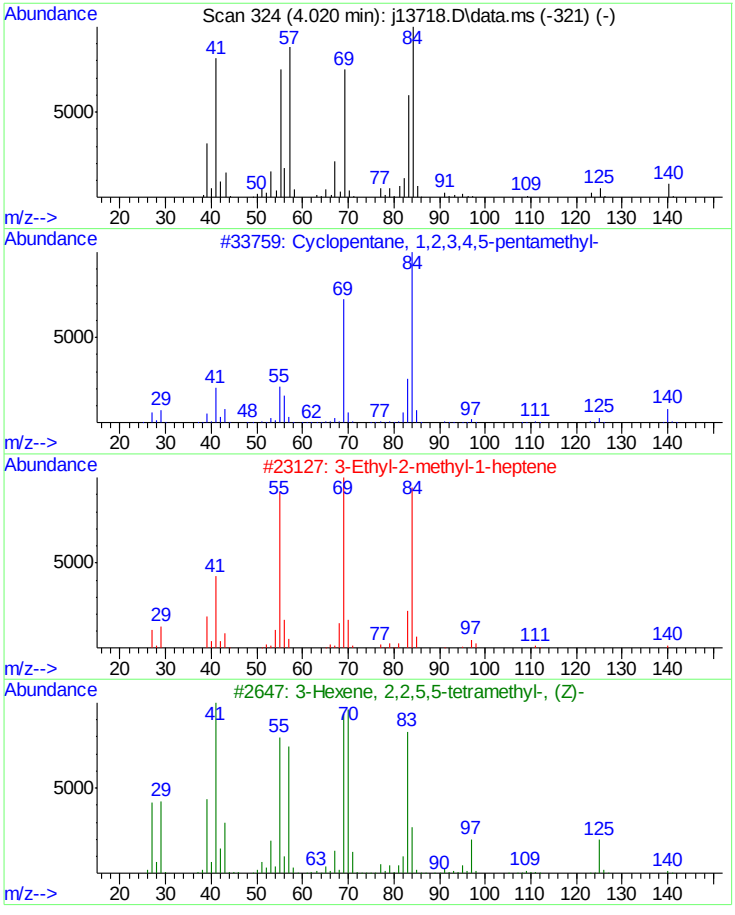
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

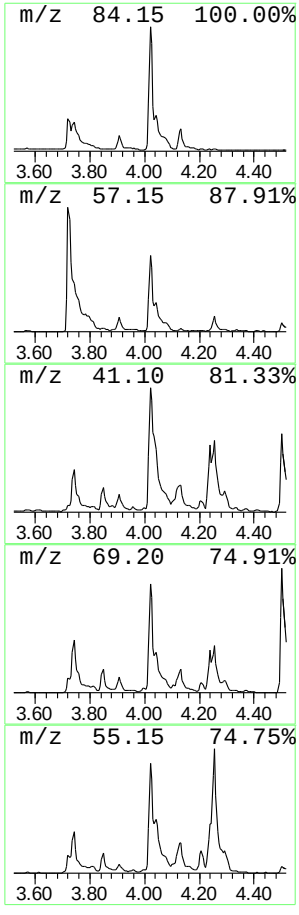
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.020	8.59 ug/ml	642202	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	59
2	3-Ethyl-2-methyl-1-heptene	140	C10H20	019780-60-0	53
3	3-Hexene, 2,2,5,5-tetramethyl-, ...	140	C10H20	000692-47-7	47
4	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	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 : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

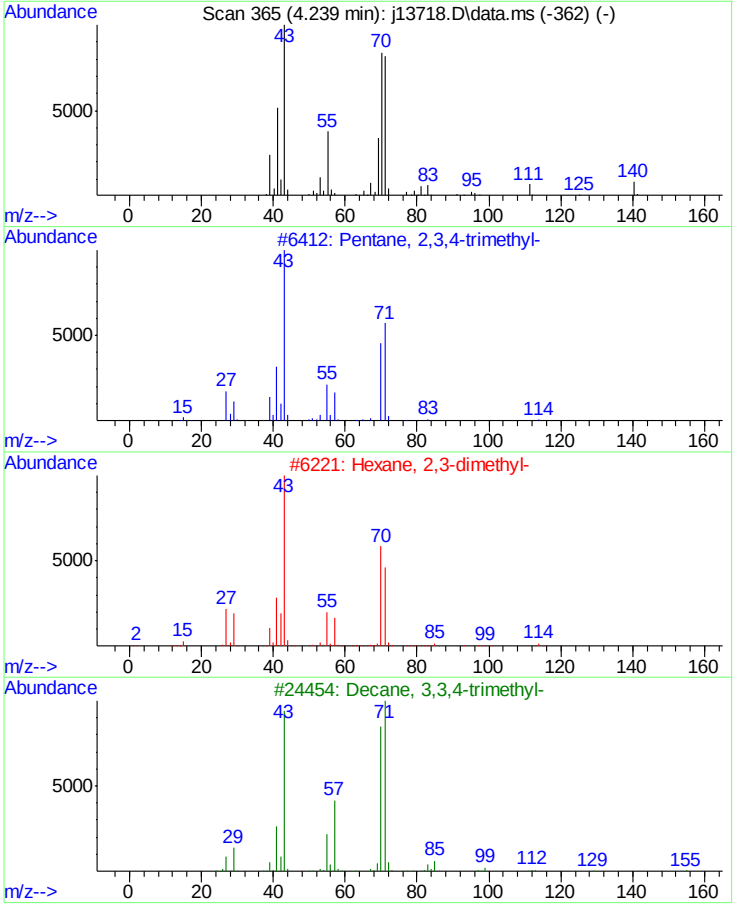
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

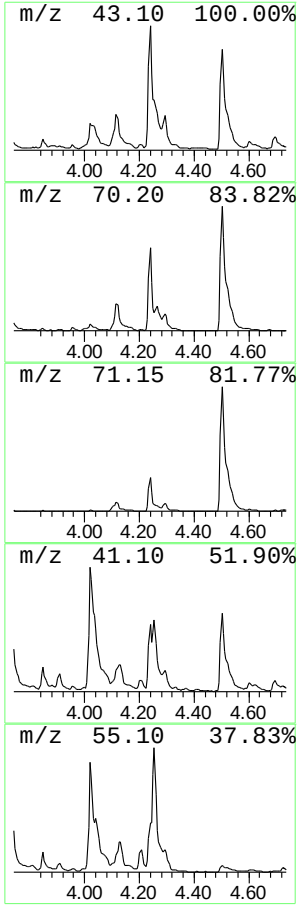
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	4.14 ug/ml	309693	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	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
3	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	72
4	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	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 : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

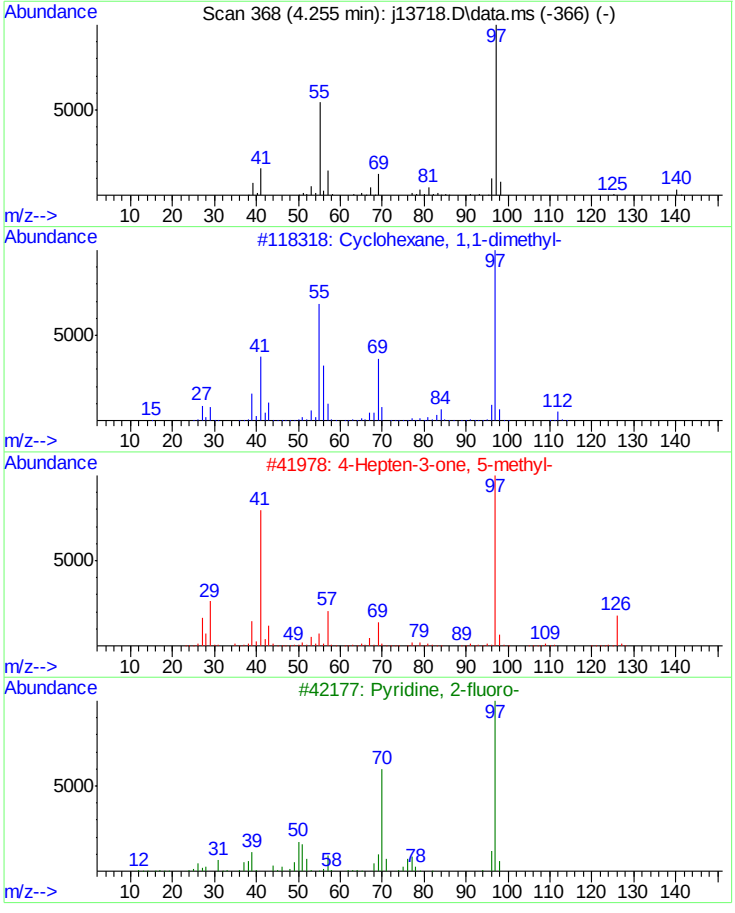
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

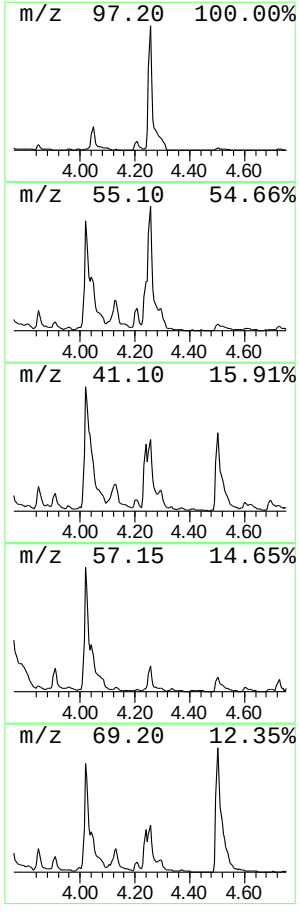
****

Peak Number 3 Cyclohexane, 1,1-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	6.56 ug/ml	490032	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	72
2	4-Hepten-3-one, 5-methyl-	126	C8H14O	001447-26-3	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

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

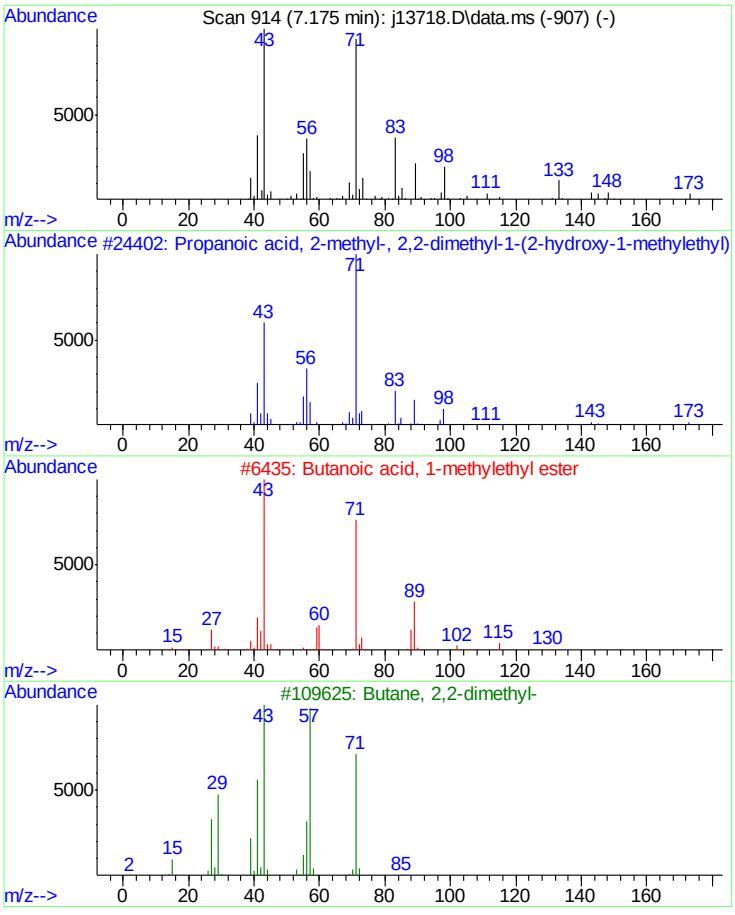
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

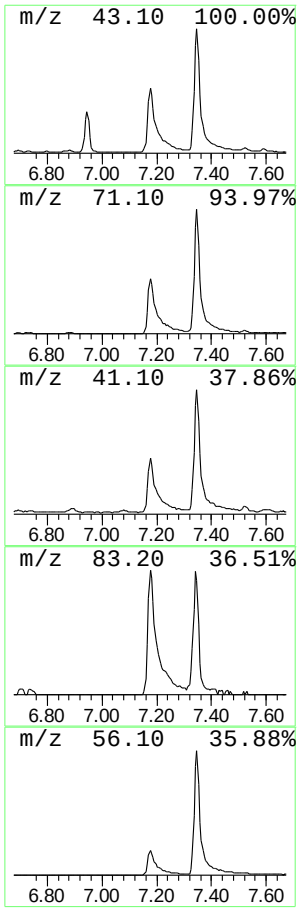
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.175	6.90 ug/ml	617602	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	53
2	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	43
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	38
4	2,5-Dimethyl-1,5-hexadien-3-ol	126	C8H14O	017123-63-6	38
5	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	38





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13718.D
Acq On : 9 Oct 2009 2:28 am
Operator : sheilac
Sample : t39314-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

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

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Cyclopentane, 1...	4.020	8.6	ug/ml	642202	1	4.726	2988940	40.0
Pentane, 2,3,4-...	4.239	4.1	ug/ml	309693	1	4.726	2988940	40.0
Cyclohexane, 1,...	4.255	6.6	ug/ml	490032	1	4.726	2988940	40.0
Propanoic acid,...	7.175	6.9	ug/ml	617602	2	5.940	3582140	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35504.D Vial: 22
Acq On : 20 Oct 2009 8:08 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:10 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	75971	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	62273	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	61917	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	74742	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	36652	4.00	ppb	0.02
26) Perylene-d12	16.33	264	6239	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	179252	35.48	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 709.60%#			
10) 2-Fluorobiphenyl	8.87	172	1470452	39.34	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 786.80%#			
16) 2,4,6-Tribromophenol	10.40	330	333640	86.11	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 861.10%#			
23) Terphenyl-d14	12.66	244	407258	62.63	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1252.60%#			

Target Compounds

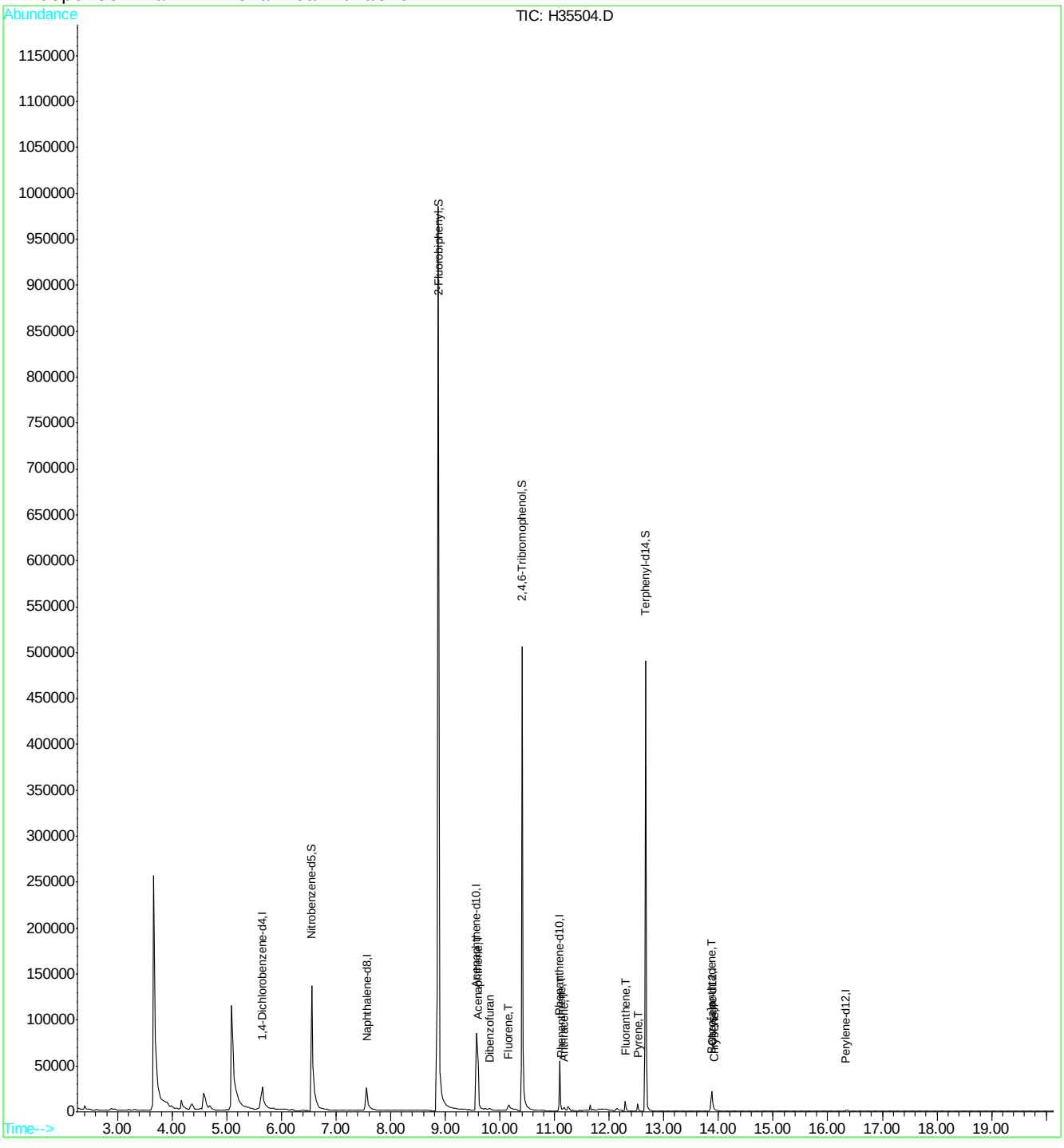
							Qvalue
12) Acenaphthene	9.60	153	31593	0.86	ppb		86
13) Dibenzofuran	9.81	168	4428	0.14	ppb	#	88
14) Fluorene	10.16	166	6215	0.27	ppb	#	49
18) Phenanthrene	11.11	178	2502	0.06	ppb	#	89
19) Anthracene	11.17	178	3854	0.09	ppb	#	85
20) Fluoranthene	12.29	202	13332	0.33	ppb	#	90
22) Pyrene	12.52	202	11113	0.54	ppb		96
24) Benzo[a]anthracene	13.87	228	1125m	0.08	ppb		
25) Chrysene	13.92	228	1332m	0.10	ppb		

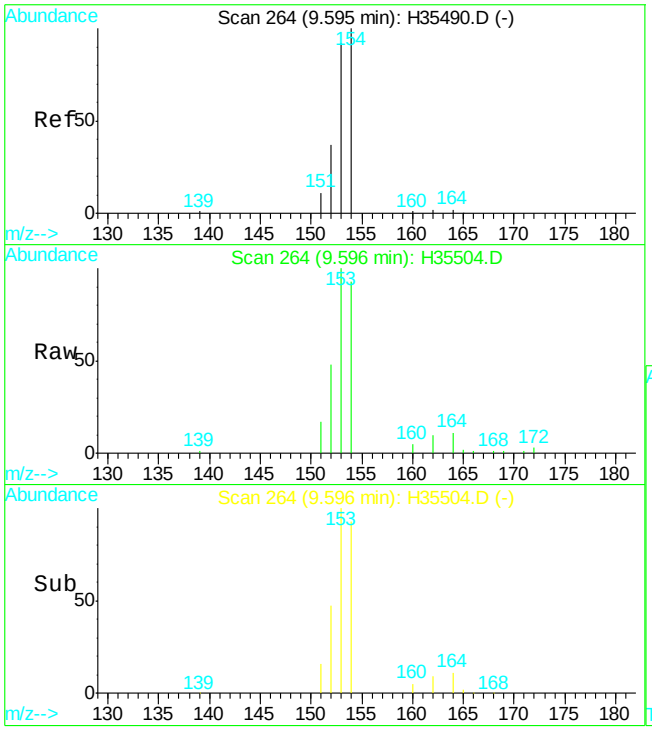
(#) = qualifier out of range (m) = manual integration
H35504.D H10209SP.M Wed Oct 21 12:12:37 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35504.D Vial: 22
Acq On : 20 Oct 2009 8:08 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:10 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Initial Calibration

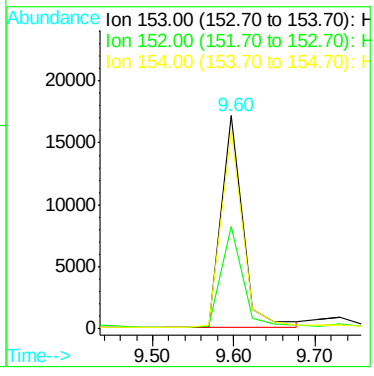


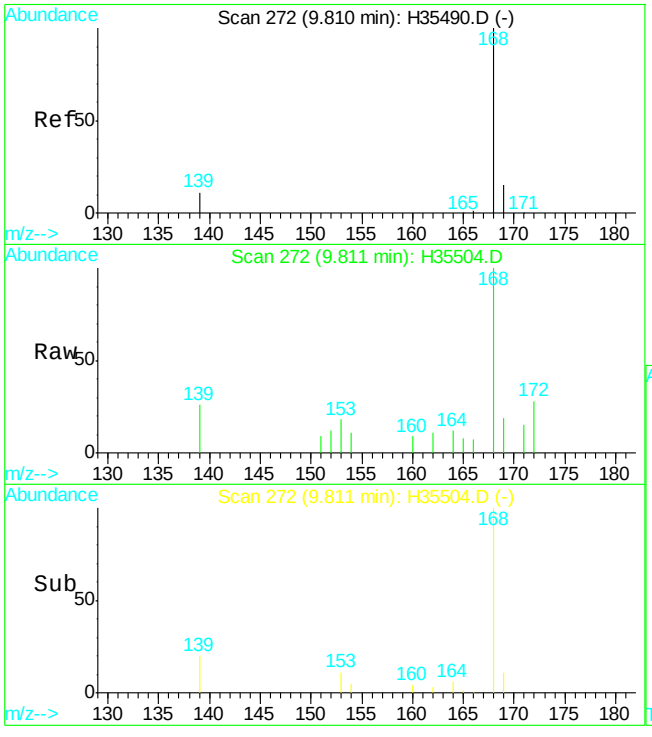


#12
Acenaphthene
Concen: 0.86 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:153 Resp: 31593

Ion	Ratio	Lower	Upper
153	100		
152	47.8	28.3	52.7
154	93.6	76.0	141.2

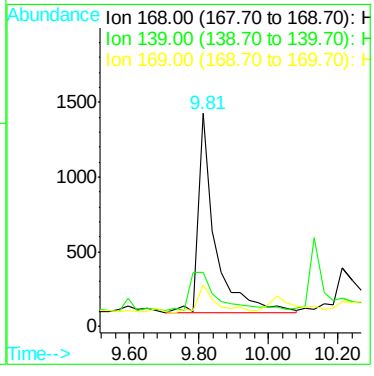


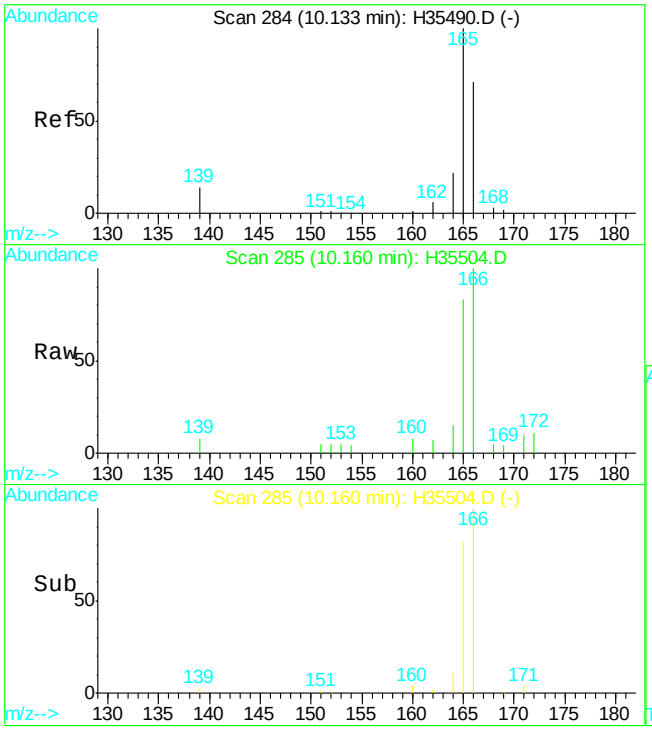


#13
Dibenzofuran
Concen: 0.14 ppb
RT: 9.81 min Scan# 272
Delta R.T. 0.00 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:168 Resp: 4428

Ion	Ratio	Lower	Upper
168	100		
139	33.8	26.3	48.9
169	0.0	8.6	16.0#

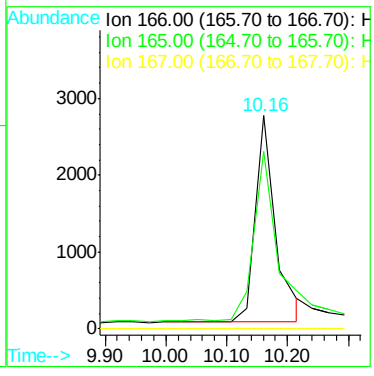


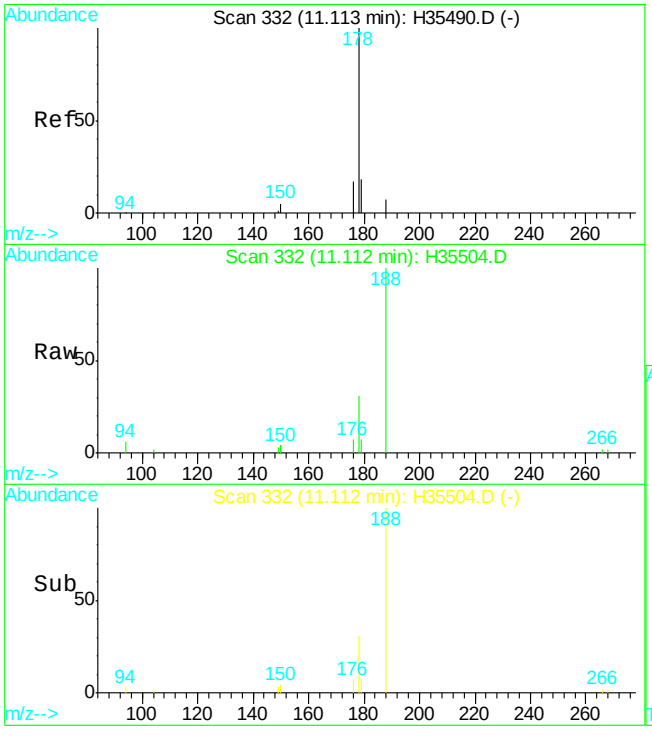


#14
Fluorene
Concen: 0.27 ppb
RT: 10.16 min Scan# 285
Delta R.T. 0.03 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:166 Resp: 6215

Ion	Ratio	Lower	Upper
166	100		
165	79.1	99.0	183.8#
167	0.0	0.0	0.0

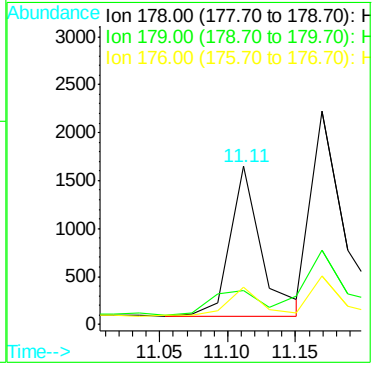


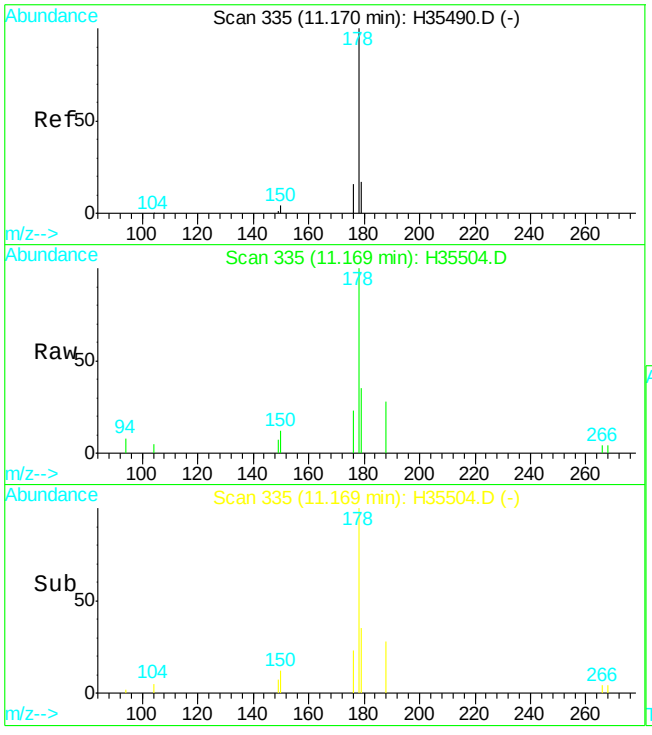


#18
Phenanthrene
Concen: 0.06 ppb
RT: 11.11 min Scan# 332
Delta R.T. -0.00 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:178 Resp: 2502

Ion	Ratio	Lower	Upper
178	100		
179	10.4	12.5	23.1#
176	19.1	12.0	22.2

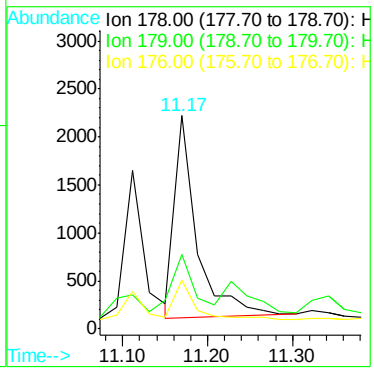


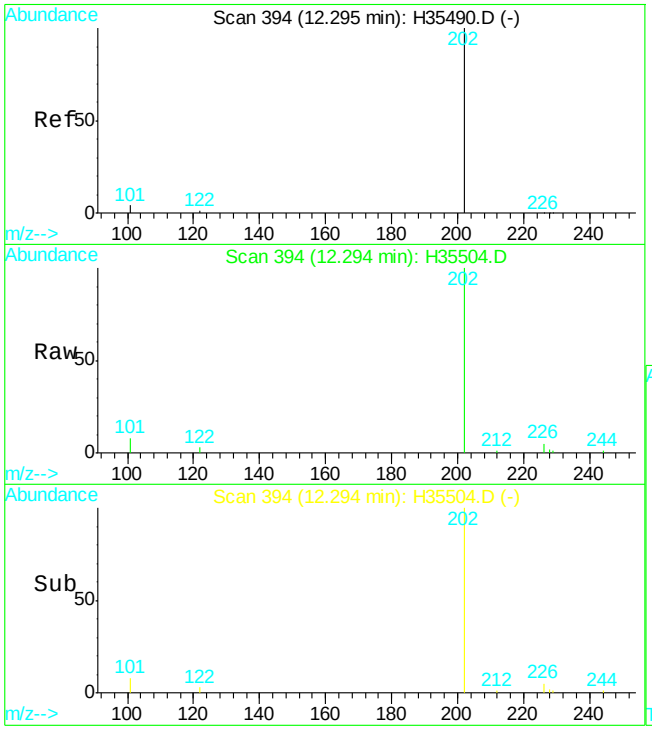


#19
Anthracene
Concen: 0.09 ppb
RT: 11.17 min Scan# 335
Delta R.T. -0.00 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:178 Resp: 3854

Ion	Ratio	Lower	Upper
178	100		
179	27.1	12.3	22.9#
176	19.7	11.7	21.7

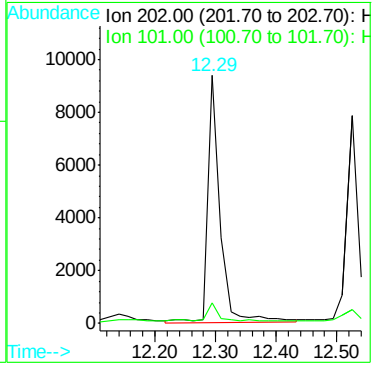


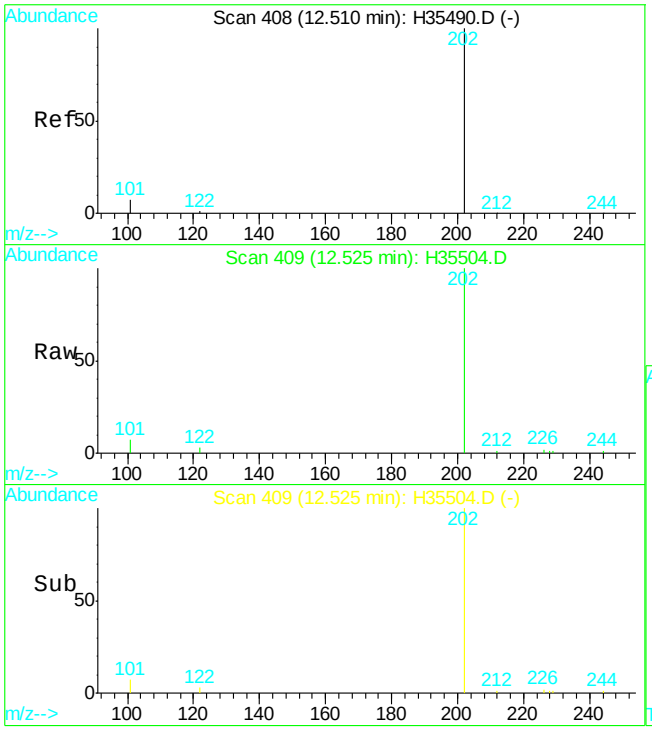


#20
Fluoranthene
Concen: 0.33 ppb
RT: 12.29 min Scan# 394
Delta R.T. -0.00 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:202 Resp: 13332

Ion	Ratio	Lower	Upper
202	100		
101	7.4	2.9	5.3#

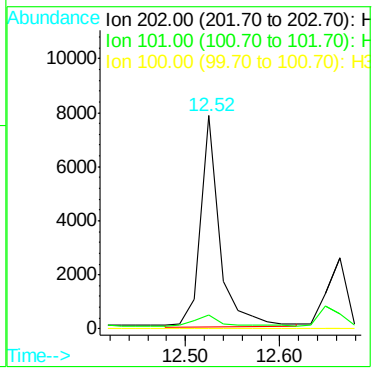


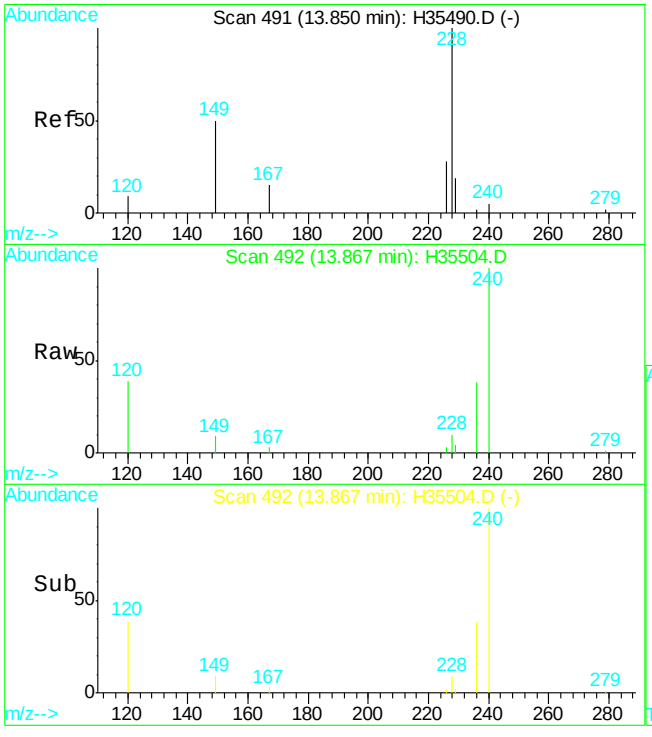


#22
Pyrene
Concen: 0.54 ppb
RT: 12.52 min Scan# 409
Delta R.T. 0.01 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:202 Resp: 11113

Ion	Ratio	Lower	Upper
202	100		
101	5.4	4.8	9.0
100	0.0	0.0	0.0

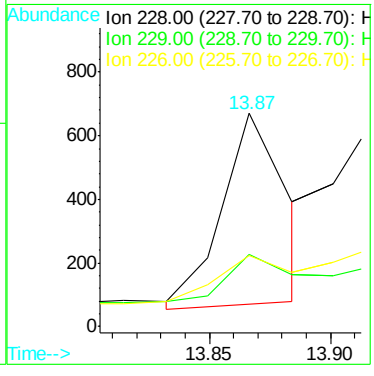


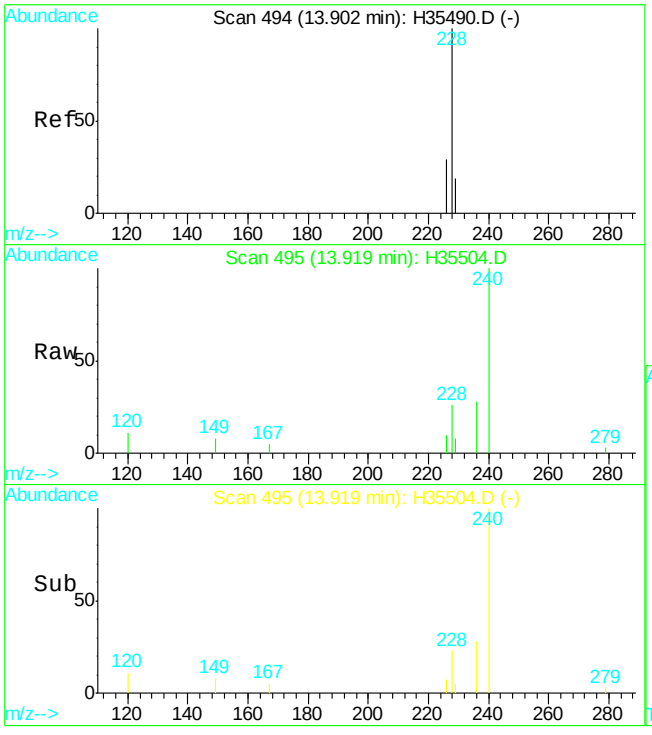


#24
Benzo[a]anthracene
Concen: 0.08 ppb m
RT: 13.87 min Scan# 492
Delta R.T. 0.02 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:228 Resp: 1125

Ion	Ratio	Lower	Upper
228	100		
229	33.8	13.2	24.4#
226	33.2	19.0	35.4

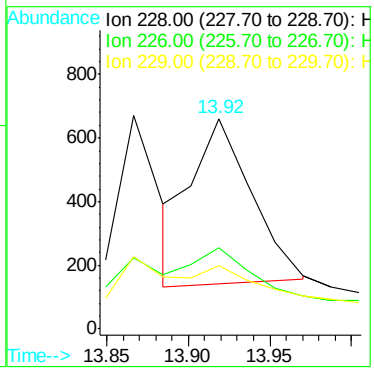




#25
Chrysene
Concen: 0.10 ppb m
RT: 13.92 min Scan# 495
Delta R.T. 0.02 min
Lab File: H35504.D
Acq: 20 Oct 2009 8:08 pm

Tgt Ion:228 Resp: 1332

Ion	Ratio	Lower	Upper
228	100		
226	38.5	21.1	39.1
229	30.2	13.4	24.8#



8.1.14

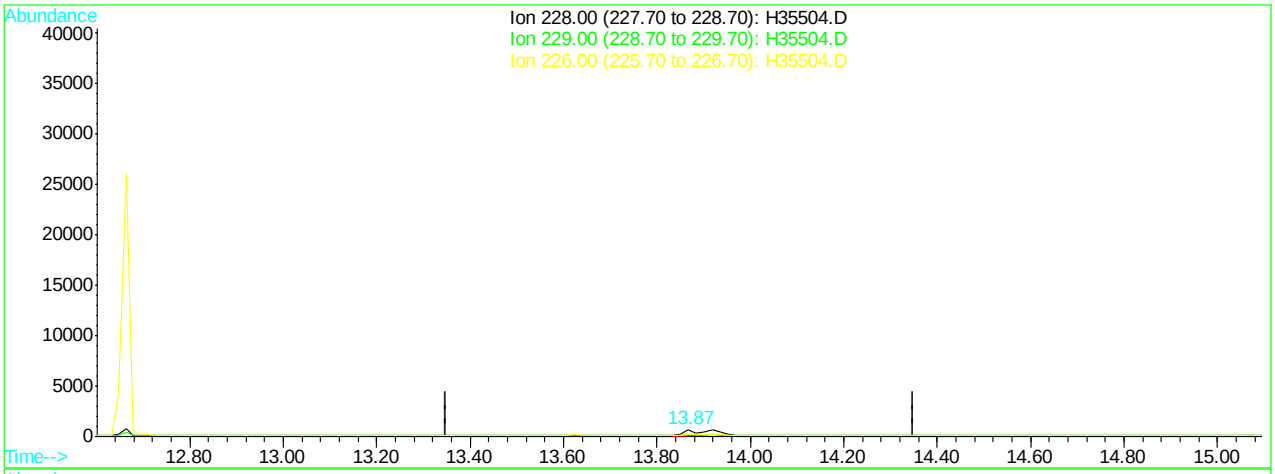
8

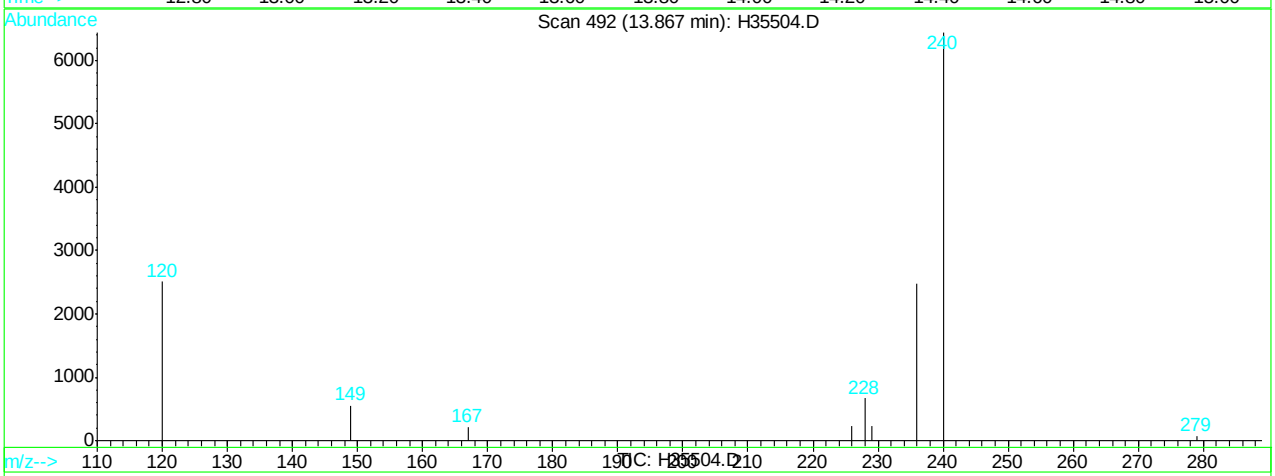
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35504.D Vial: 22
Acq On : 20 Oct 2009 8:08 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:10 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 0.08ppb m

response 1125

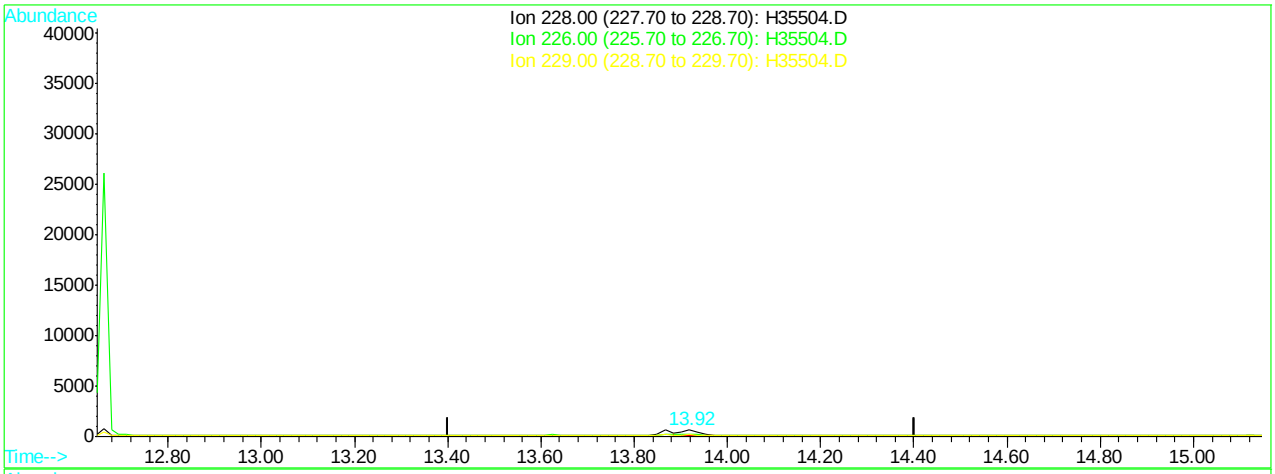
Ion	Exp%	Act%
228.00	100	100
229.00	18.80	33.83#
226.00	27.20	33.23
0.00	0.00	0.00

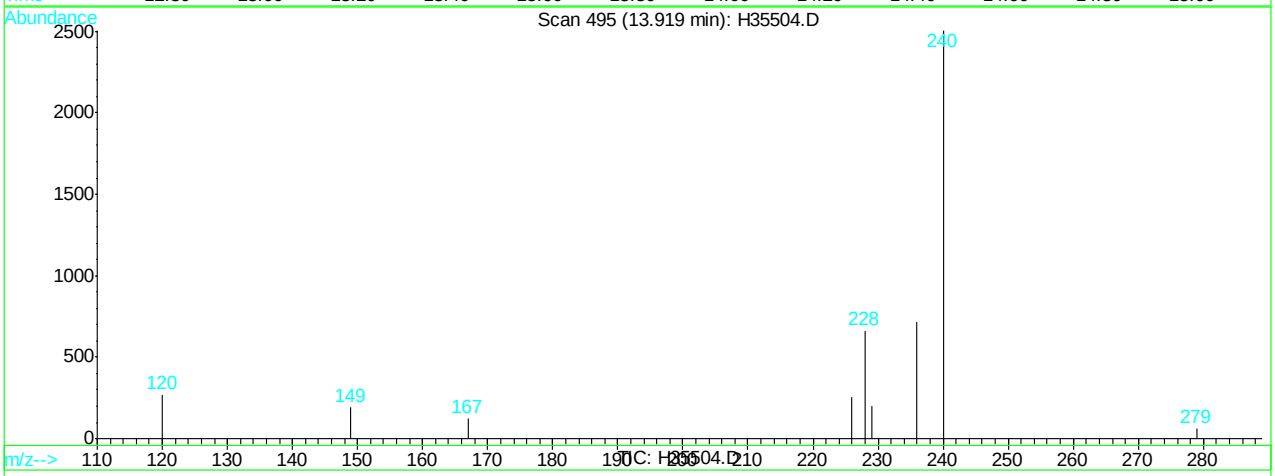
H35504.D H10209SP.M Wed Oct 21 12:12:50 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35504.D Vial: 22
Acq On : 20 Oct 2009 8:08 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:10 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.10ppb m

response 1332

Ion	Exp%	Act%
228.00	100	100
226.00	30.10	38.52
229.00	19.10	30.21#
0.00	0.00	0.00

H35504.D H10209SP.M Wed Oct 21 12:12:53 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 16:49:29 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	86994	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	77445	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	47381	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	75488	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	31271	4.00	ppb	0.00
26) Perylene-d12	16.37	264	4505	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	117291	35.32	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 706.40%#			
10) 2-Fluorobiphenyl	8.87	172	1434604	44.94	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 898.80%#			
16) 2,4,6-Tribromophenol	10.40	330	277214	112.66	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1126.60%#			
23) Terphenyl-d14	12.68	244	534608	90.07	ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery = 1801.40%#			

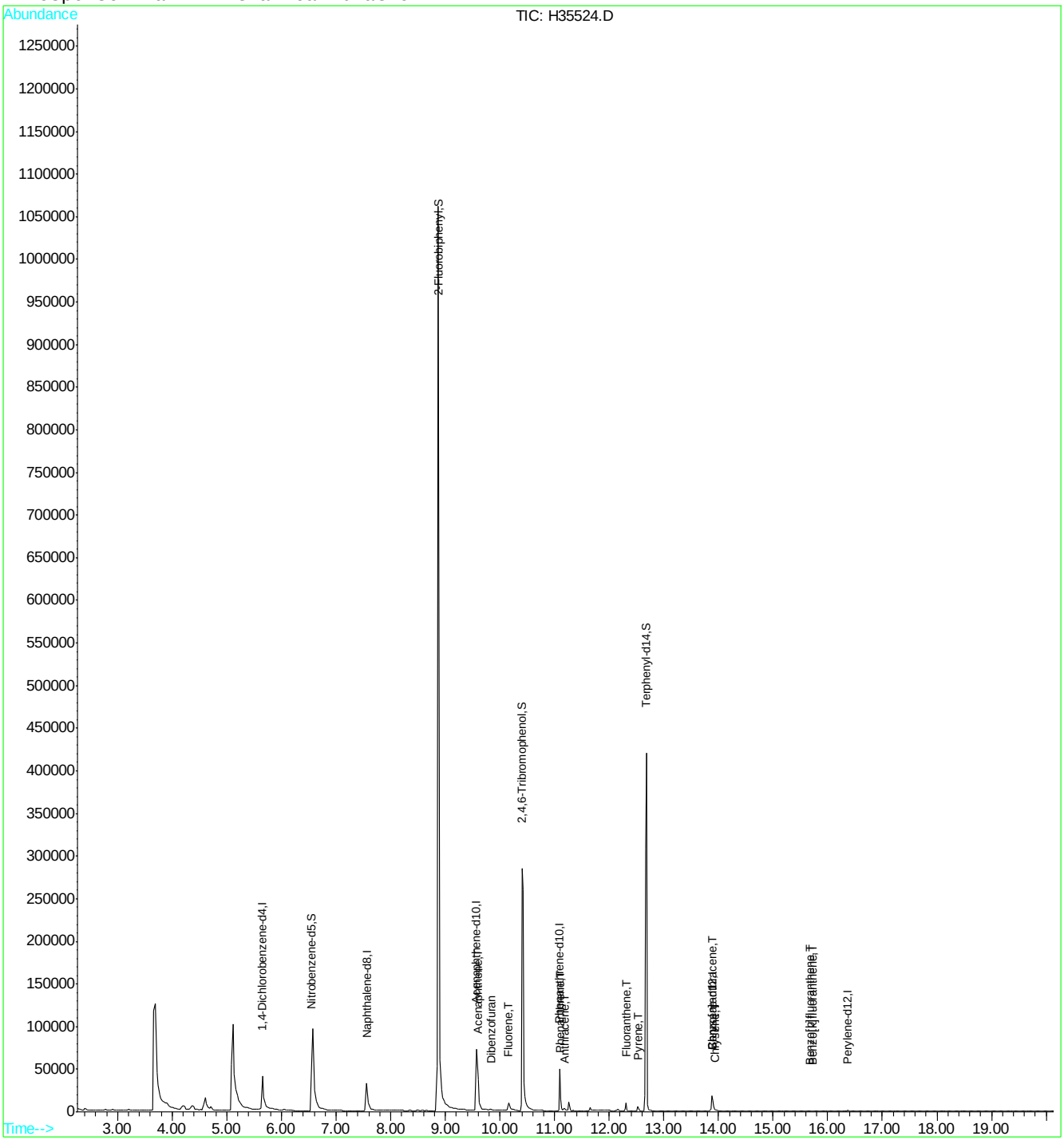
Target Compounds							Qvalue
12) Acenaphthene	9.60	153	23255	0.86	ppb		78
13) Dibenzofuran	9.84	168	3047	0.14	ppb	#	64
14) Fluorene	10.16	166	8340	0.67	ppb		90
18) Phenanthrene	11.11	178	2130	0.06	ppb		93
19) Anthracene	11.19	178	3393	0.09	ppb	#	87
20) Fluoranthene	12.31	202	11349	0.35	ppb	#	94
22) Pyrene	12.52	202	10663	0.35	ppb		94
24) Benzo[a]anthracene	13.88	228	1103m	0.11	ppb		
25) Chrysene	13.94	228	1096m	0.09	ppb		
27) Benzo[b]fluoranthene	15.67	252	237m	0.23	ppb		
28) Benzo[k]fluoranthene	15.73	252	178m	0.19	ppb		

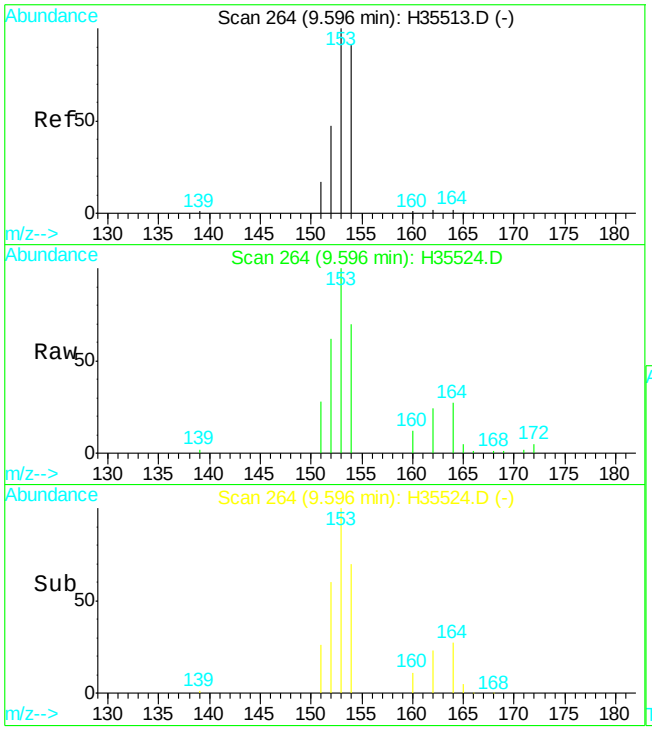
(#) = qualifier out of range (m) = manual integration
H35524.D H10219SP.M Thu Oct 22 12:16:11 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Initial Calibration

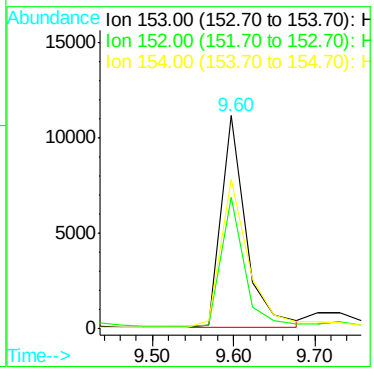


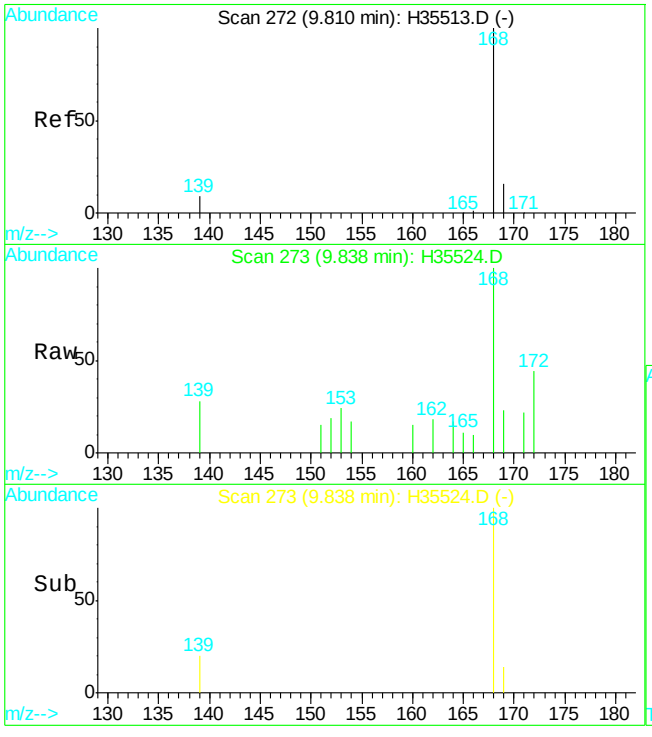


#12
Acenaphthene
Concen: 0.86 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:153 Resp: 23255

Ion	Ratio	Lower	Upper
153	100		
152	61.2	33.0	61.4
154	69.7	63.6	118.2

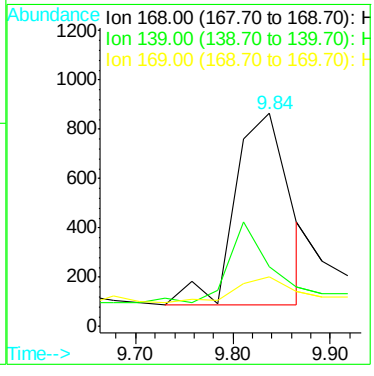


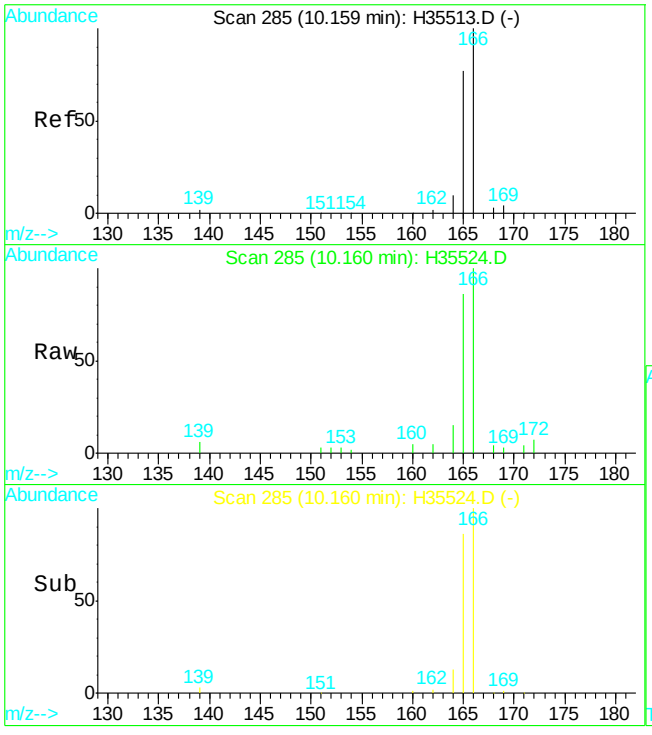


#13
Dibenzofuran
Concen: 0.14 ppb
RT: 9.84 min Scan# 273
Delta R.T. 0.03 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:168 Resp: 3047

Ion	Ratio	Lower	Upper
168	100		
139	32.9	42.2	78.4#
169	0.0	10.5	19.5#

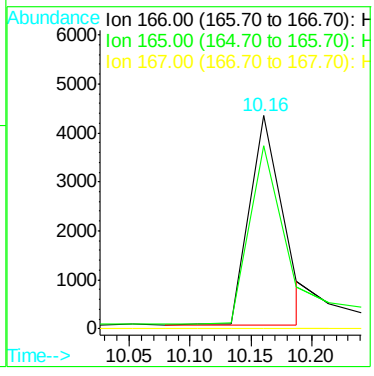


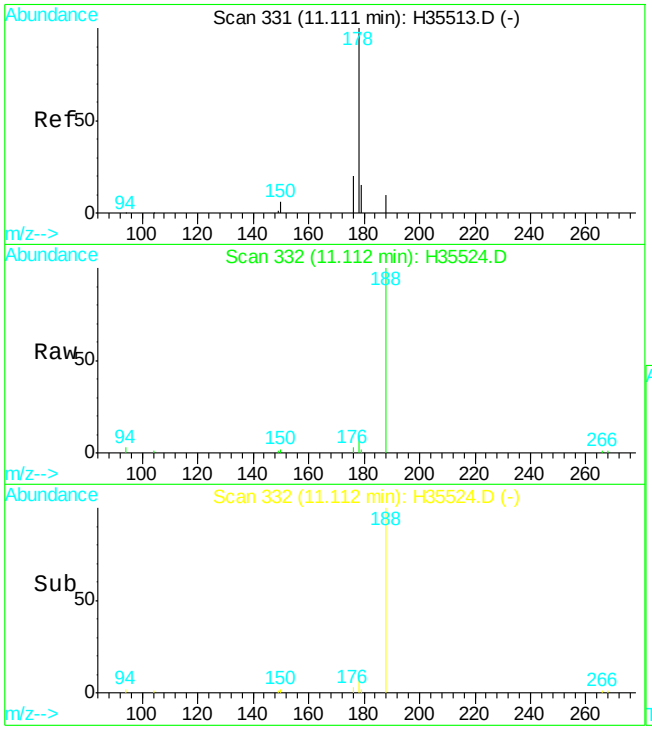


#14
Fluorene
Concen: 0.67 ppb
RT: 10.16 min Scan# 285
Delta R.T. 0.00 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:166 Resp: 8340

Ion	Ratio	Lower	Upper
166	100		
165	85.5	53.6	99.6
167	0.0	0.0	0.0

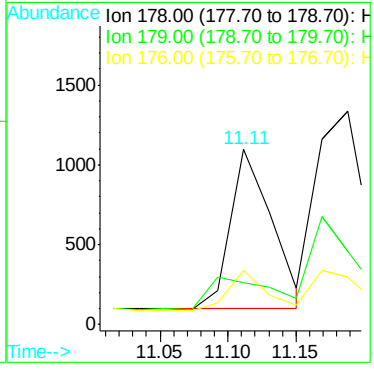


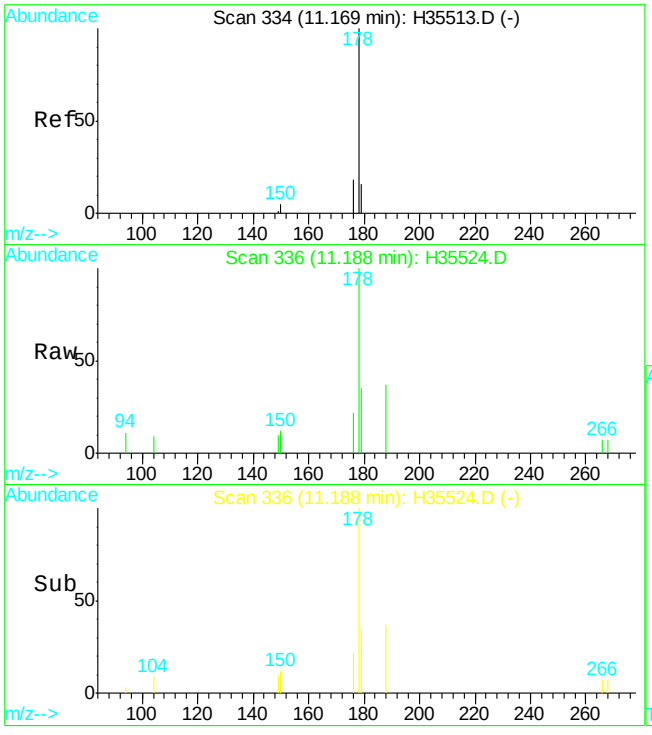


#18
Phenanthrene
Concen: 0.06 ppb
RT: 11.11 min Scan# 332
Delta R.T. 0.00 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:178 Resp: 2130

Ion	Ratio	Lower	Upper
178	100		
179	14.2	10.4	19.2
176	25.1	14.0	26.0

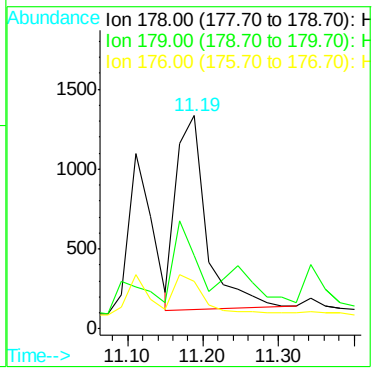


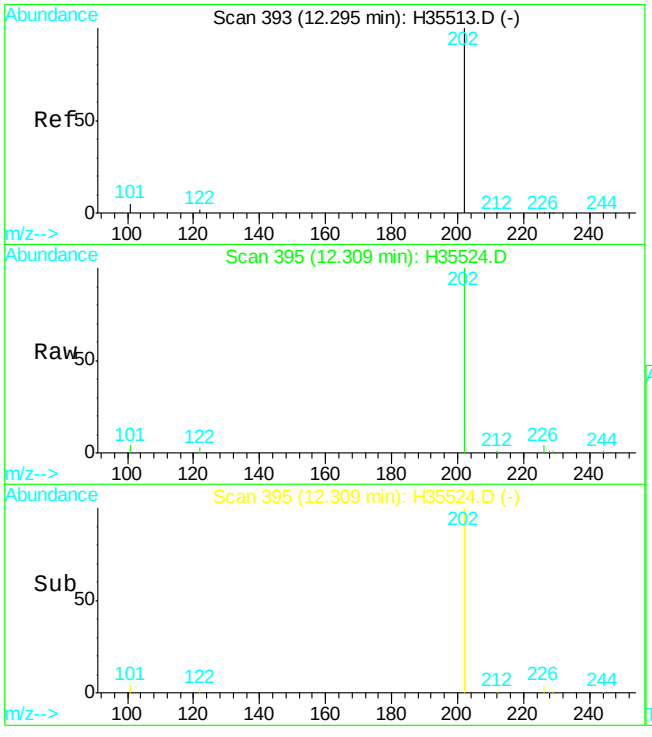


#19
Anthracene
Concen: 0.09 ppb
RT: 11.19 min Scan# 336
Delta R.T. 0.02 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:178 Resp: 3393

Ion	Ratio	Lower	Upper
178	100		
179	25.9	11.2	20.8#
176	16.4	12.5	23.3

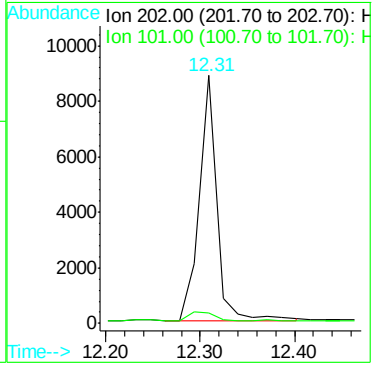


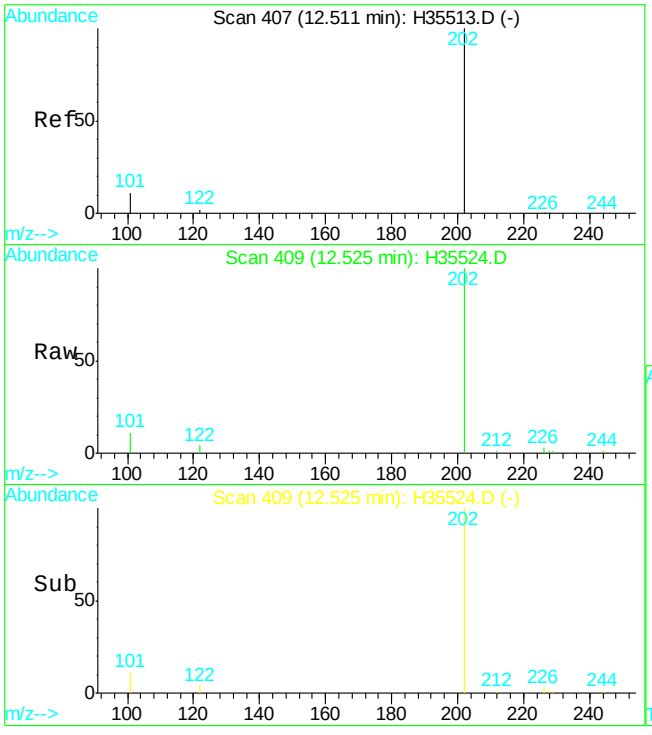


#20
Fluoranthene
Concen: 0.35 ppb
RT: 12.31 min Scan# 395
Delta R.T. 0.01 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:202 Resp: 11349

Ion	Ratio	Lower	Upper
202	100		
101	3.3	3.6	6.6#

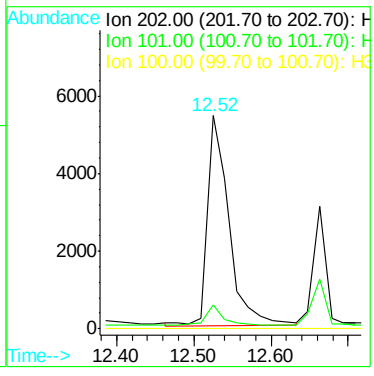


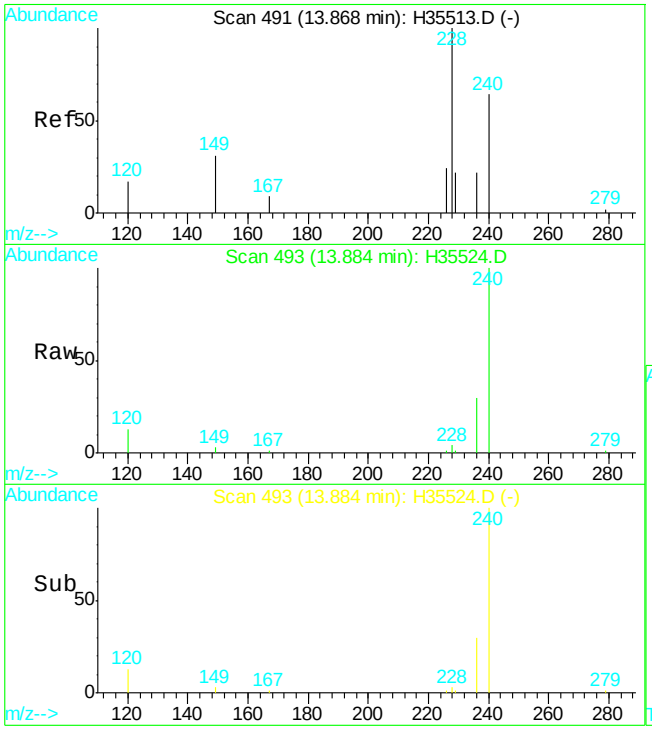


#22
Pyrene
Concen: 0.35 ppb
RT: 12.52 min Scan# 409
Delta R.T. 0.01 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:202 Resp: 10663

Ion	Ratio	Lower	Upper
202	100		
101	9.5	8.2	15.2
100	0.0	0.0	0.0

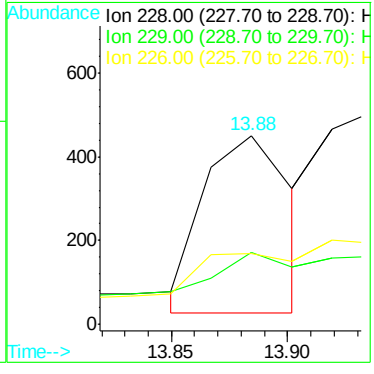


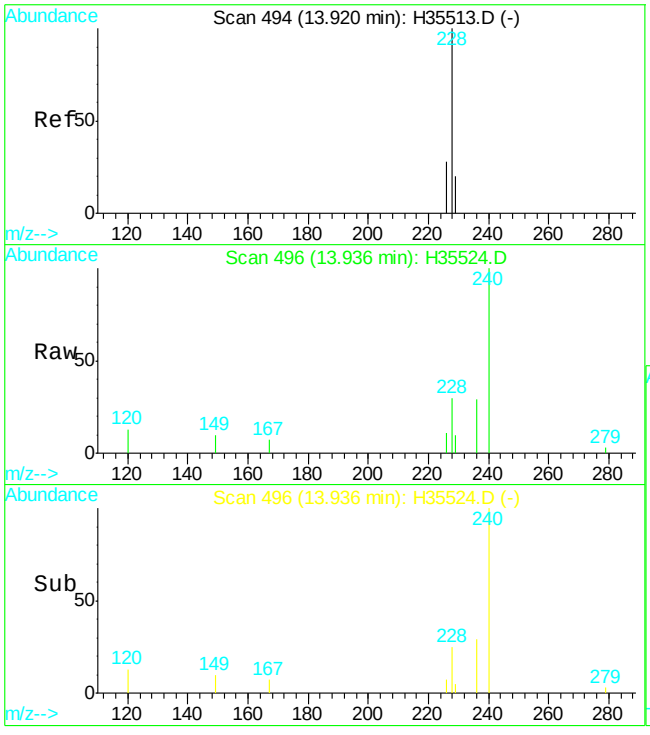


#24
Benzo[a]anthracene
Concen: 0.11 ppb m
RT: 13.88 min Scan# 493
Delta R.T. 0.02 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:228 Resp: 1103

Ion	Ratio	Lower	Upper
228	100		
229	38.4	15.3	28.3#
226	37.6	16.6	30.8#

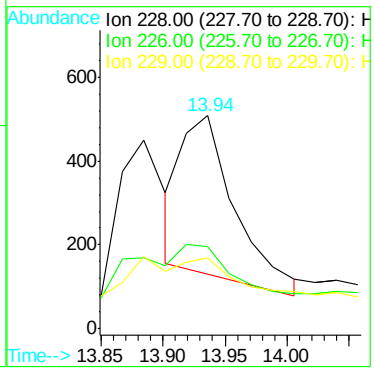


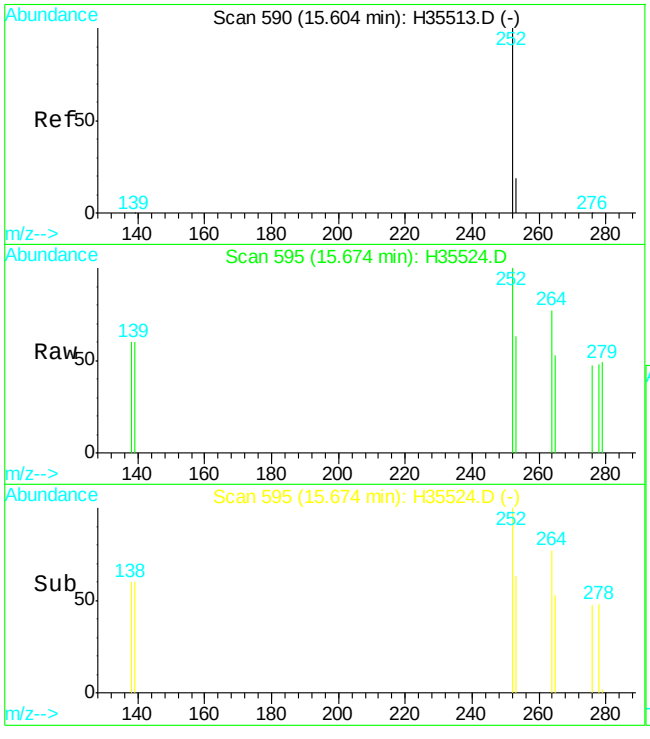


#25
Chrysene
Concen: 0.09 ppb m
RT: 13.94 min Scan# 496
Delta R.T. 0.02 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:228 Resp: 1096

Ion	Ratio	Lower	Upper
228	100		
226	38.4	19.6	36.4#
229	33.3	14.6	27.2#

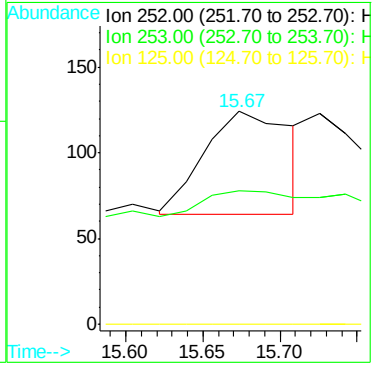


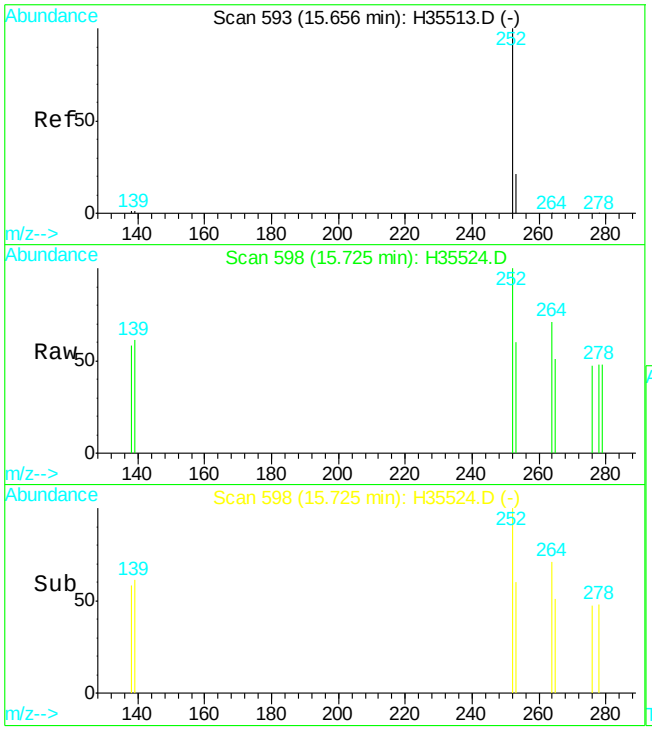


#27
Benzo[b]fluoranthene
Concen: 0.23 ppb m
RT: 15.67 min Scan# 595
Delta R.T. 0.07 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:252 Resp: 237

Ion	Ratio	Lower	Upper
252	100		
253	62.9	15.1	28.1#
125	0.0	0.0	0.0

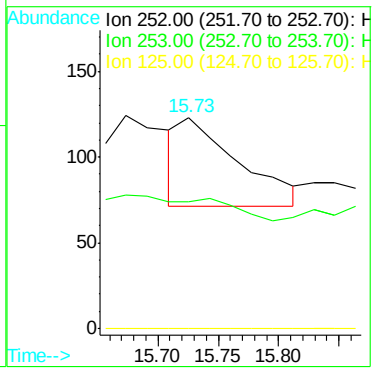




#28
Benzo[k]fluoranthene
Concen: 0.19 ppb m
RT: 15.73 min Scan# 598
Delta R.T. 0.07 min
Lab File: H35524.D
Acq: 21 Oct 2009 4:23 pm

Tgt Ion:252 Resp: 178

Ion	Ratio	Lower	Upper
252	100		
253	60.2	15.8	29.3#
125	0.0	0.0	0.0



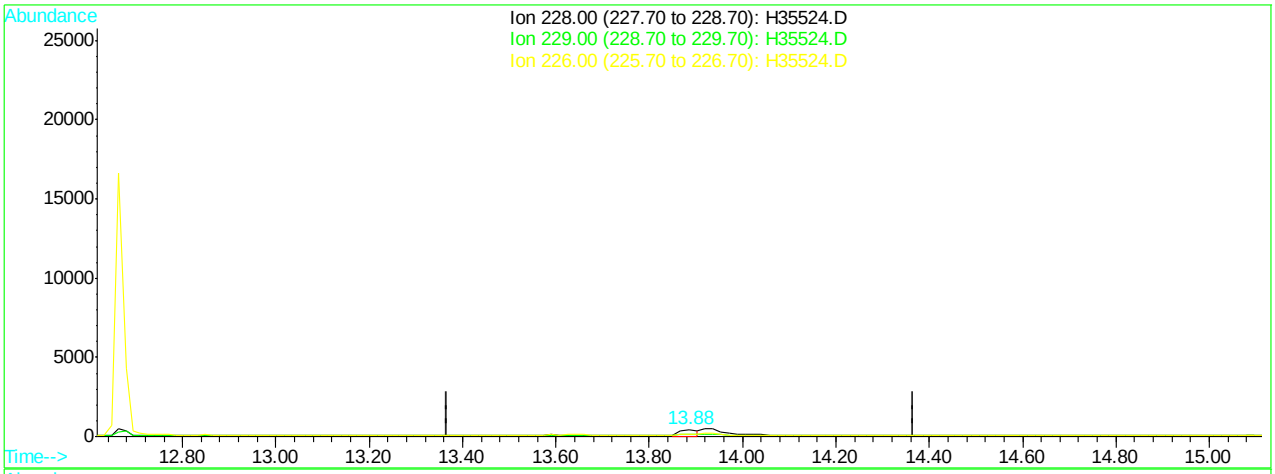
8.1.15

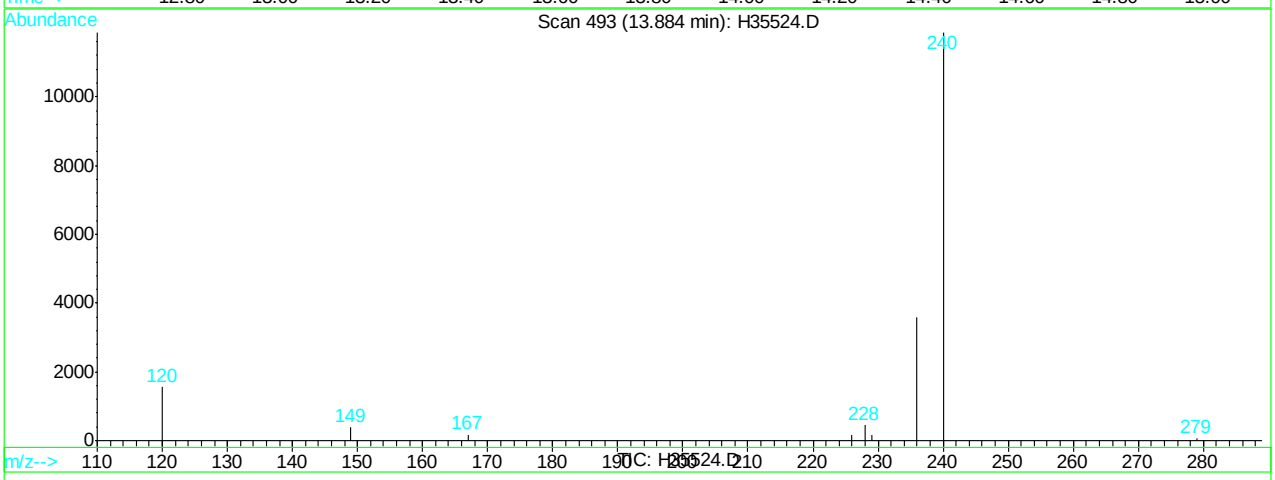
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 0.11ppb m

response 1103

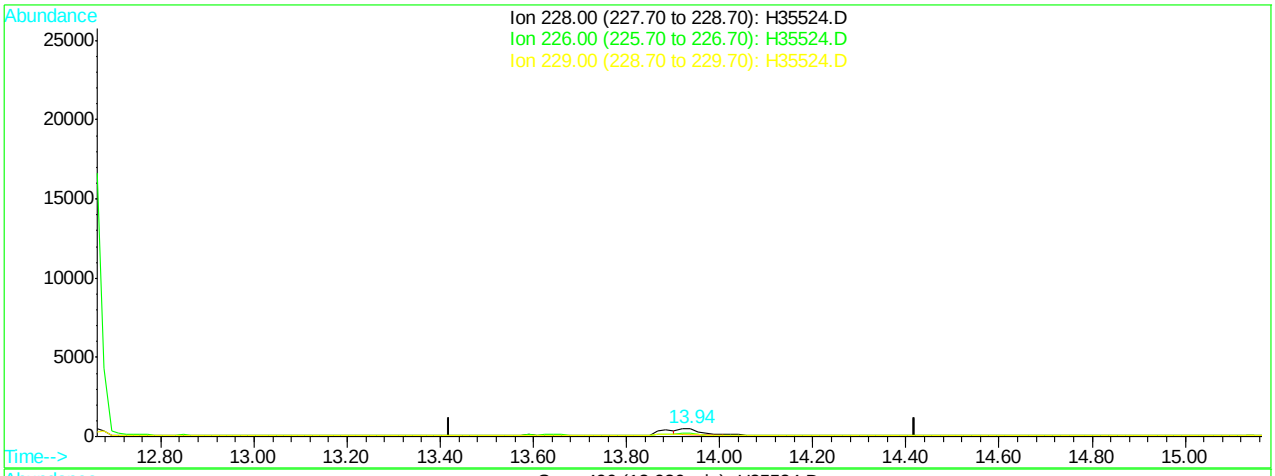
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	38.44#
226.00	23.70	37.56#
0.00	0.00	0.00

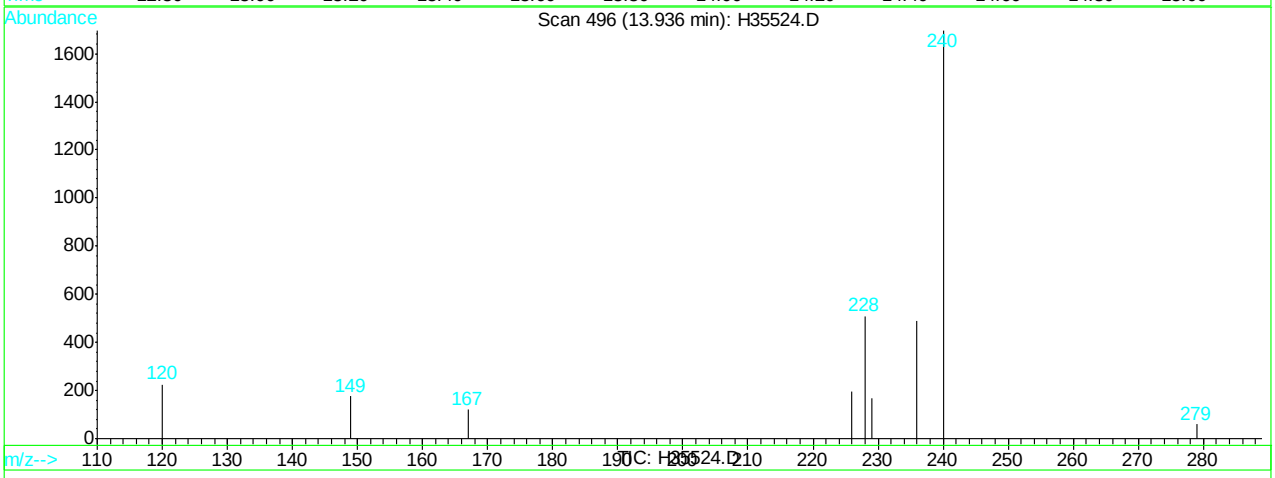
H35524.D H10219SP.M Thu Oct 22 12:16:23 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.09ppb m

response 1096

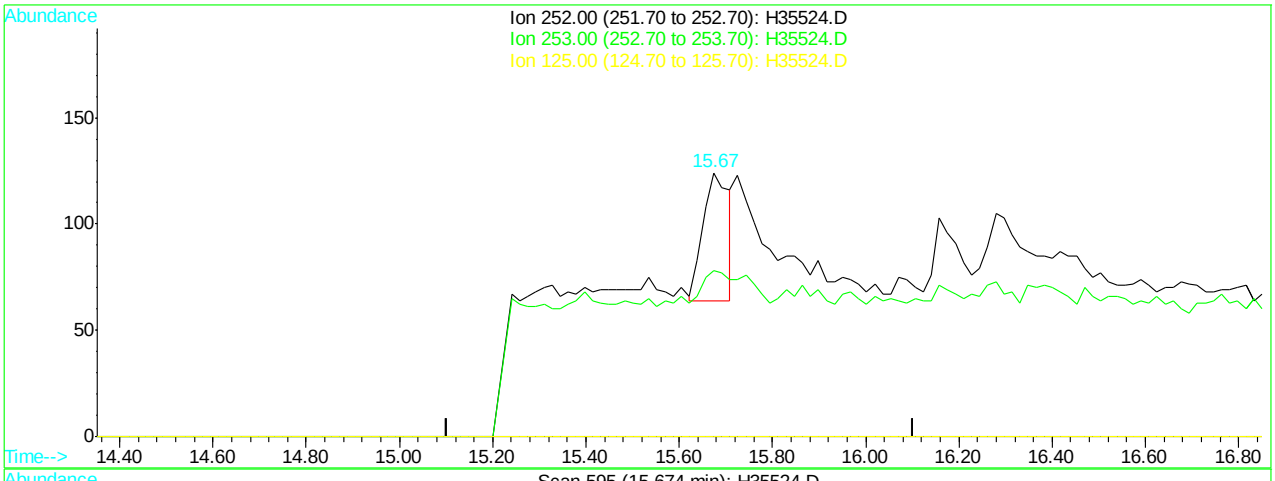
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	38.39#
229.00	20.90	33.27#
0.00	0.00	0.00

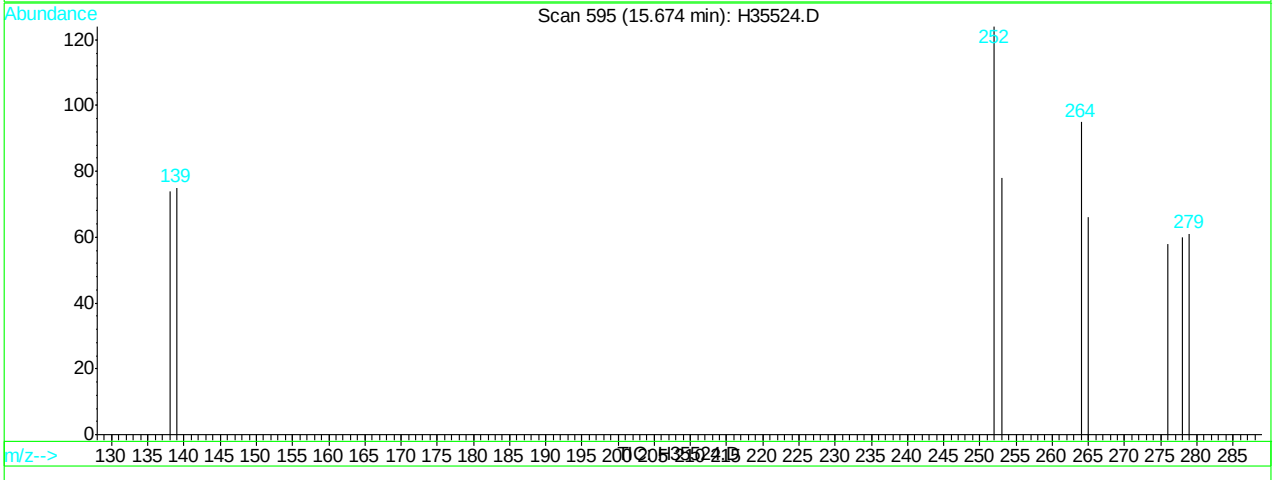
H35524.D H10219SP.M Thu Oct 22 12:16:26 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.67min 0.23ppb m

response 237

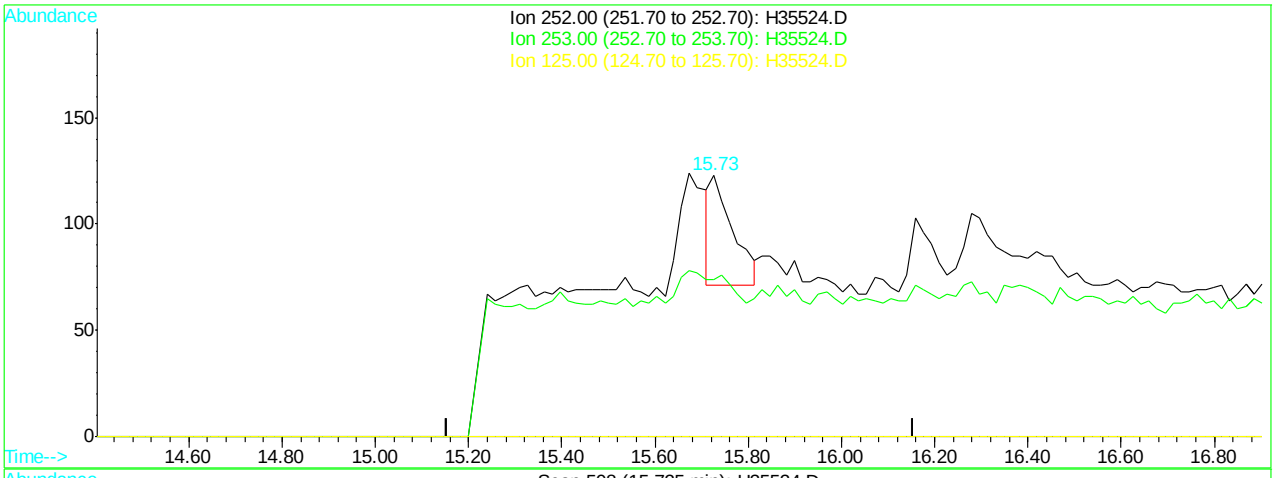
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	62.90#
125.00	0.00	0.00
0.00	0.00	0.00

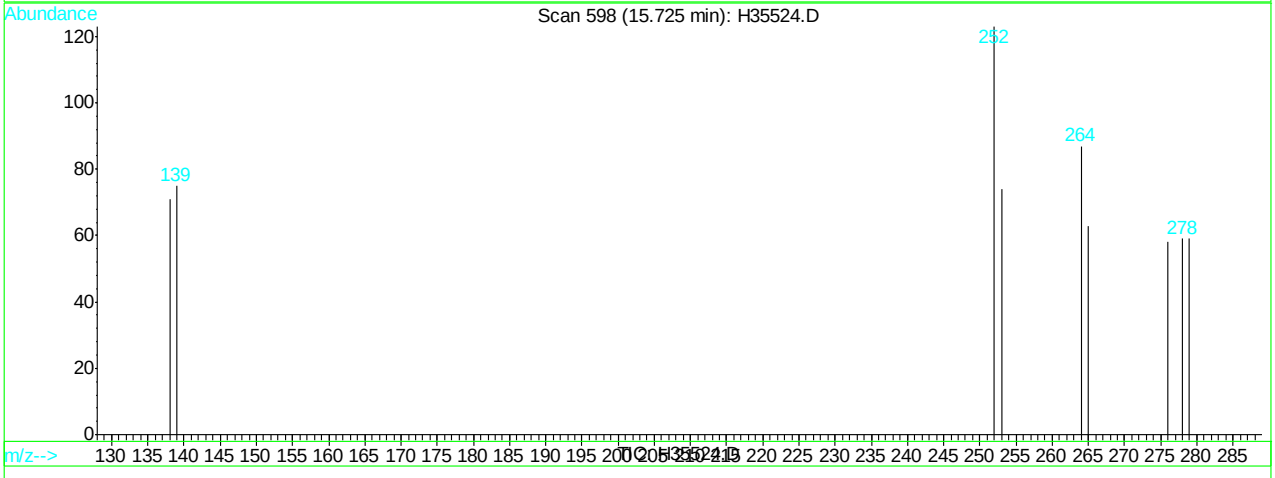
H35524.D H10219SP.M Thu Oct 22 12:16:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35524.D Vial: 13
Acq On : 21 Oct 2009 4:23 pm Operator: sheilac
Sample : t39314-1 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 0.19ppb m

response 178

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	60.16#
125.00	0.00	0.00
0.00	0.00	0.00

H35524.D H10219SP.M Thu Oct 22 12:16:32 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\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	77969	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	63502	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	59703	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	71349	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	51193	4.00	ppb	0.02
26) Perylene-d12	16.33	264	10608	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	175990	34.16	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 683.20%#			
10) 2-Fluorobiphenyl	8.87	172	1555506	43.16	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 863.20%#			
16) 2,4,6-Tribromophenol	10.40	330	344679	93.19	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 931.90%#			
23) Terphenyl-d14	12.66	244	527850	59.44	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1188.80%#			

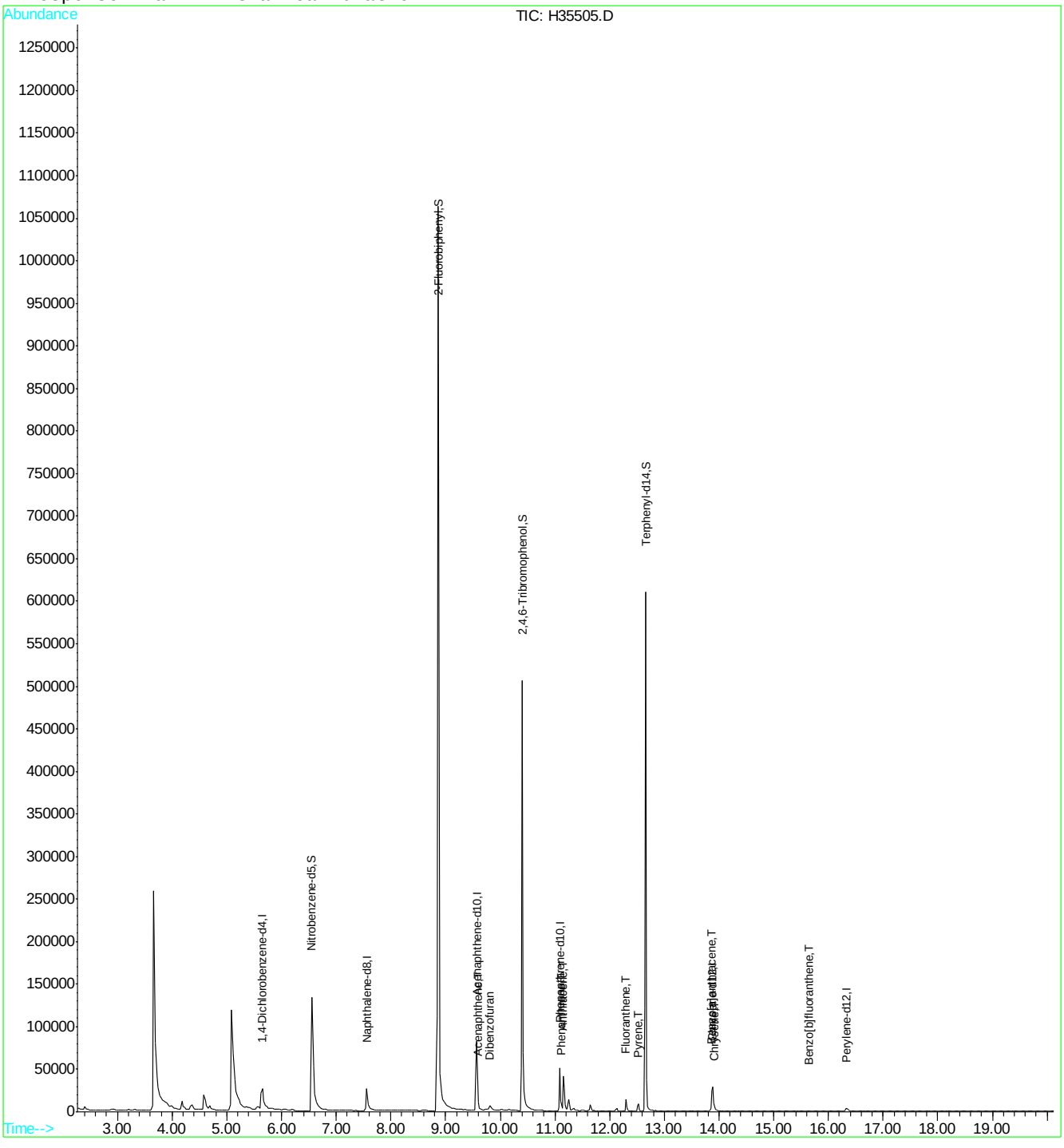
Target Compounds							Qvalue
12) Acenaphthene	9.60	153	2797	0.08	ppb		77
13) Dibenzofuran	9.81	168	12854	0.43	ppb	#	84
18) Phenanthrene	11.11	178	5175m	0.13	ppb		
19) Anthracene	11.15	178	29213m	0.72	ppb		
20) Fluoranthene	12.29	202	18827m	0.49	ppb		
22) Pyrene	12.53	202	17373m	0.60	ppb		
24) Benzo[a]anthracene	13.87	228	1805	0.10	ppb	#	88
25) Chrysene	13.92	228	2747m	0.15	ppb		
27) Benzo[b]fluoranthene	15.64	252	600m	0.21	ppb		

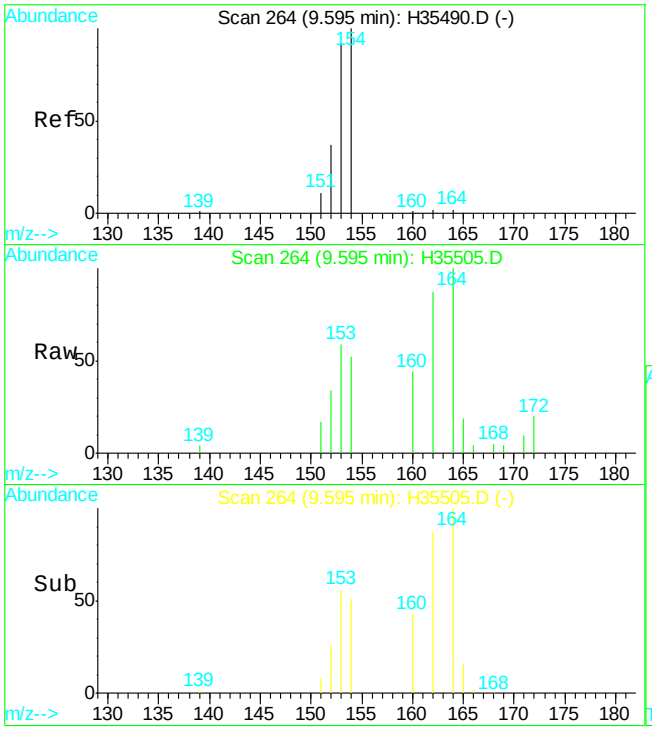
(#) = qualifier out of range (m) = manual integration
H35505.D H10209SP.M Wed Oct 21 12:17:14 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Initial Calibration

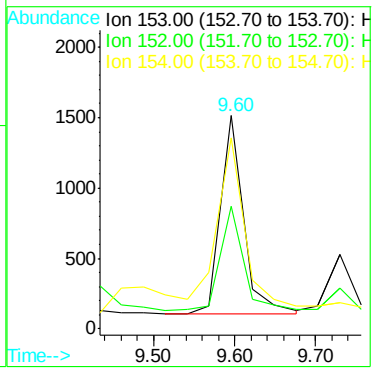


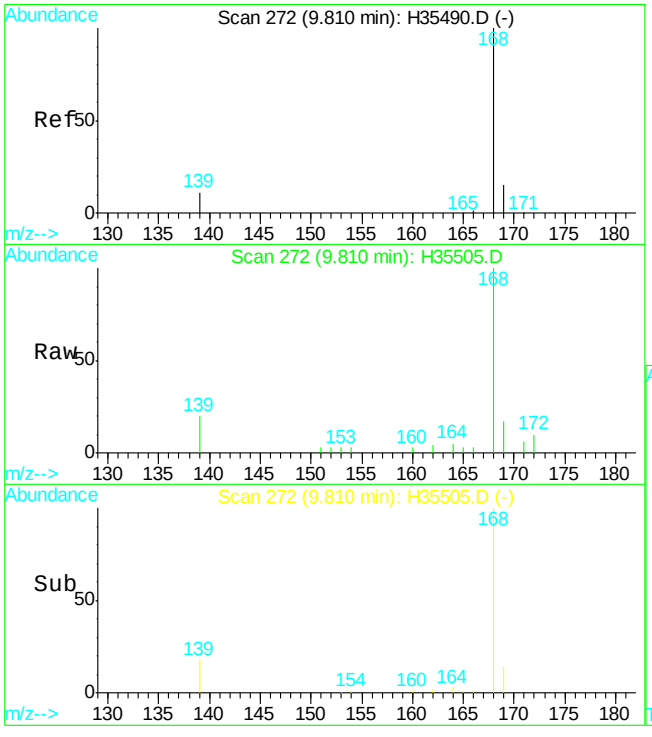


#12
Acenaphthene
Concen: 0.08 ppb
RT: 9.60 min Scan# 264
Delta R.T. -0.00 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:153 Resp: 2797

Ion	Ratio	Lower	Upper
153	100		
152	52.3	28.3	52.7
154	82.8	76.0	141.2

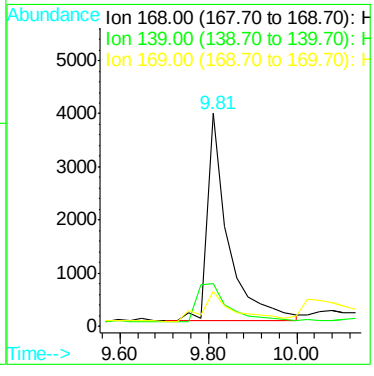


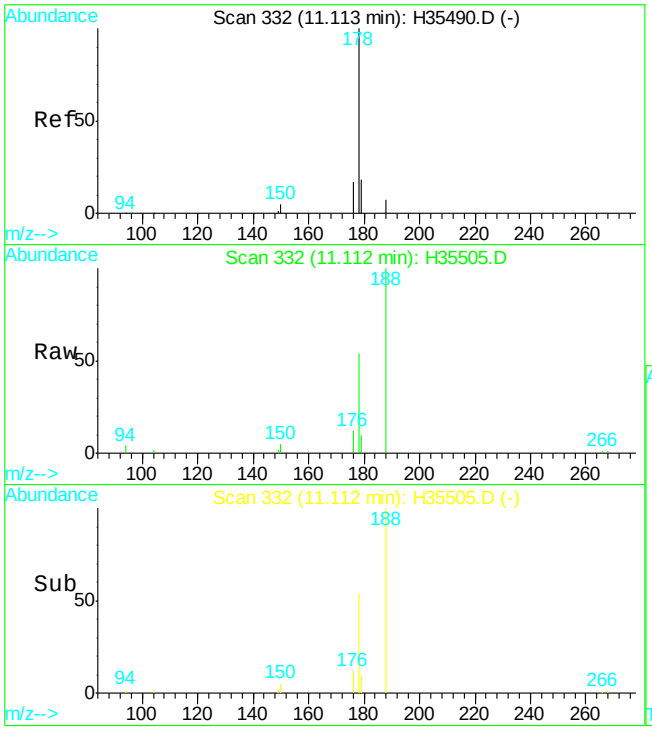


#13
Dibenzofuran
Concen: 0.43 ppb
RT: 9.81 min Scan# 272
Delta R.T. -0.00 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:168 Resp: 12854

Ion	Ratio	Lower	Upper
168	100		
139	29.7	26.3	48.9
169	21.9	8.6	16.0#

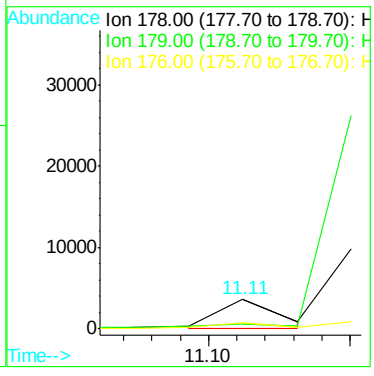


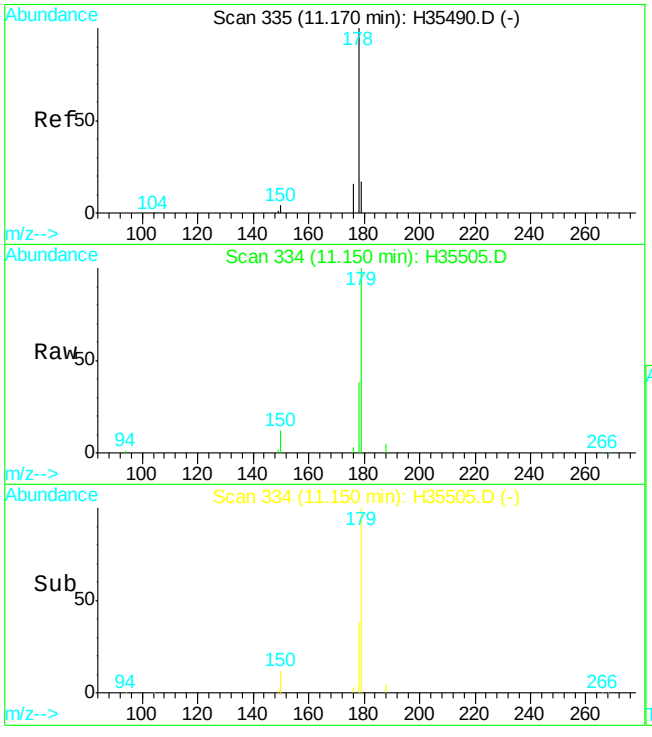


#18
Phenanthrene
Concen: 0.13 ppb m
RT: 11.11 min Scan# 332
Delta R.T. -0.00 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:178 Resp: 5175

Ion	Ratio	Lower	Upper
178	100		
179	17.8	12.5	23.1
176	21.8	12.0	22.2

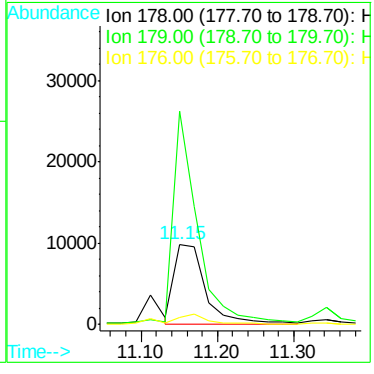


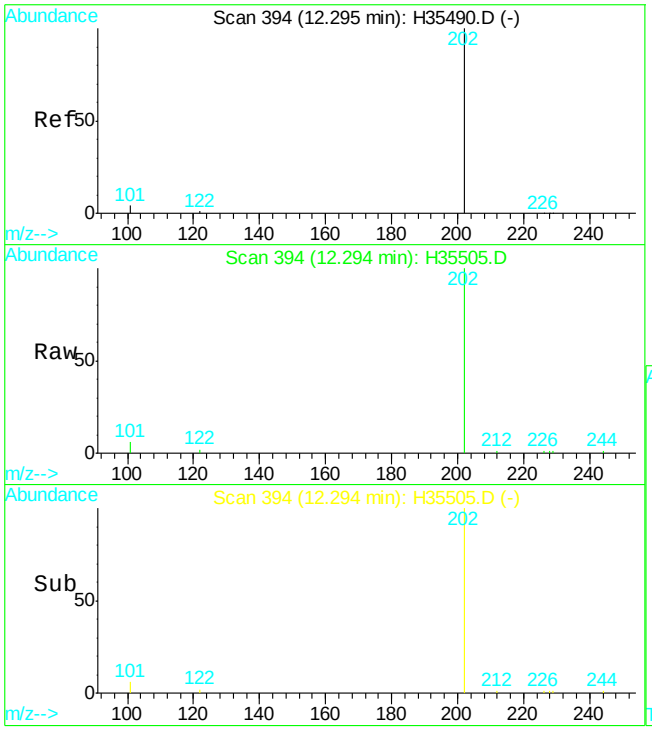


#19
Anthracene
Concen: 0.72 ppb m
RT: 11.15 min Scan# 334
Delta R.T. -0.02 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:178 Resp: 29213

Ion	Ratio	Lower	Upper
178	100		
179	265.9	12.3	22.9#
176	8.5	11.7	21.7#

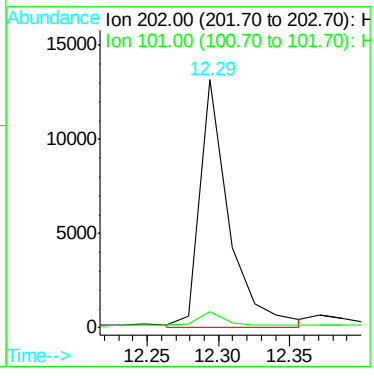


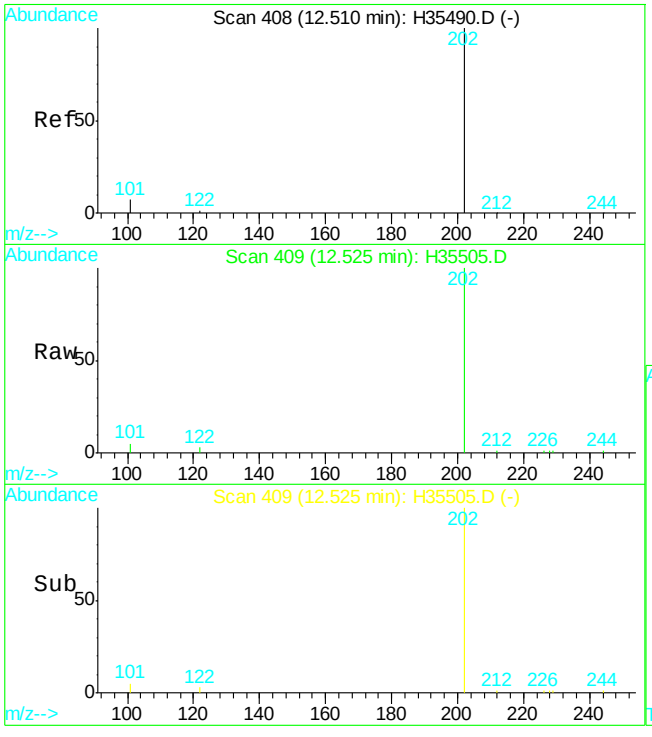


#20
Fluoranthene
Concen: 0.49 ppb m
RT: 12.29 min Scan# 394
Delta R.T. -0.00 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:202 Resp: 18827

Ion	Ratio	Lower	Upper
202	100		
101	6.5	2.9	5.3#

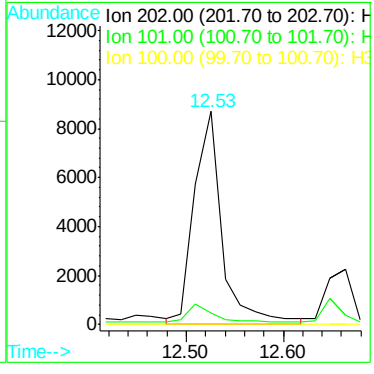


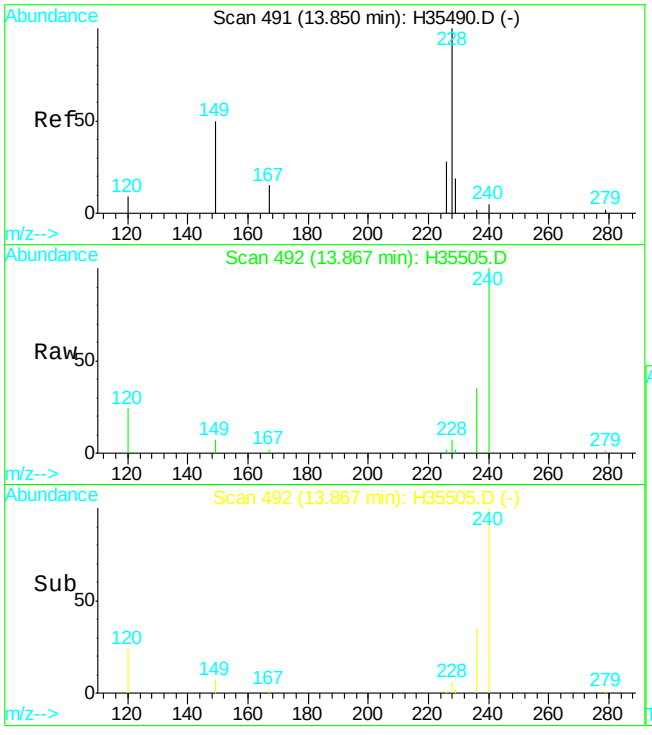


#22
Pyrene
Concen: 0.60 ppb m
RT: 12.53 min Scan# 409
Delta R.T. 0.01 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:202 Resp: 17373

Ion	Ratio	Lower	Upper
202	100		
101	5.4	4.8	9.0
100	0.0	0.0	0.0

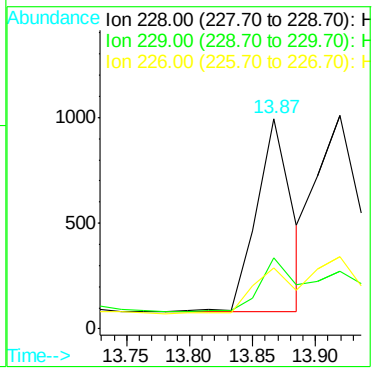


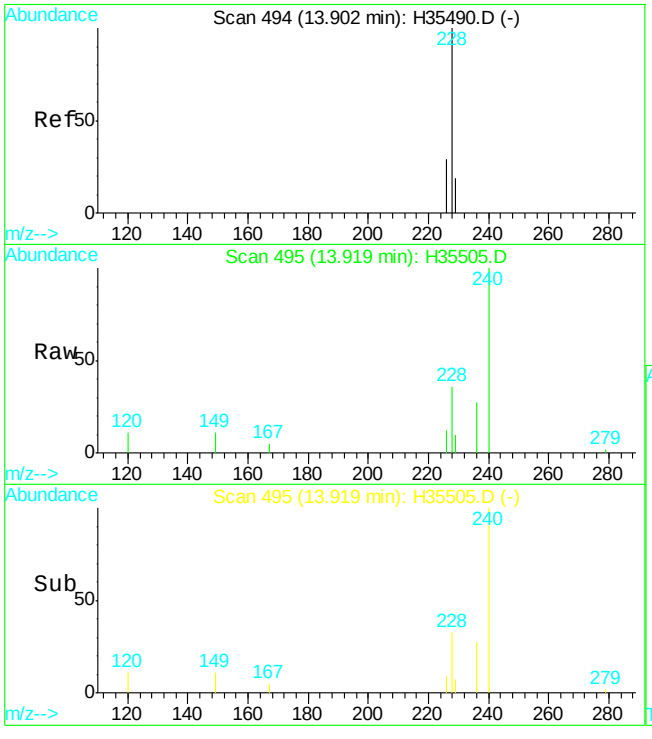


#24
Benzo[a]anthracene
Concen: 0.10 ppb
RT: 13.87 min Scan# 492
Delta R.T. 0.02 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:228 Resp: 1805

Ion	Ratio	Lower	Upper
228	100		
229	26.3	13.2	24.4#
226	23.0	19.0	35.4

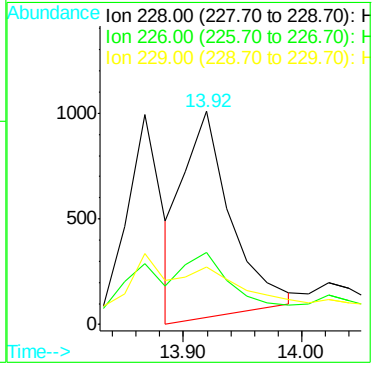


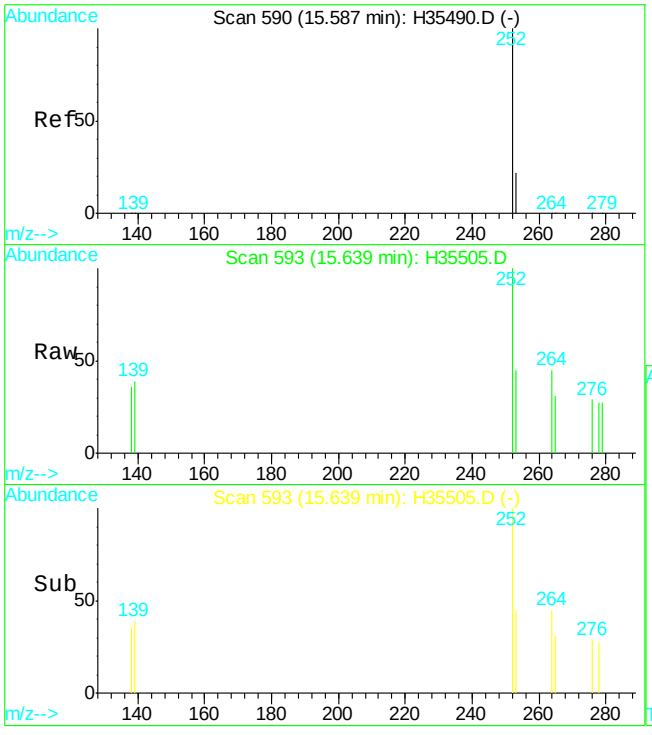


#25
Chrysene
Concen: 0.15 ppb m
RT: 13.92 min Scan# 495
Delta R.T. 0.02 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:228 Resp: 2747

Ion	Ratio	Lower	Upper
228	100		
226	34.0	21.1	39.1
229	26.8	13.4	24.8#

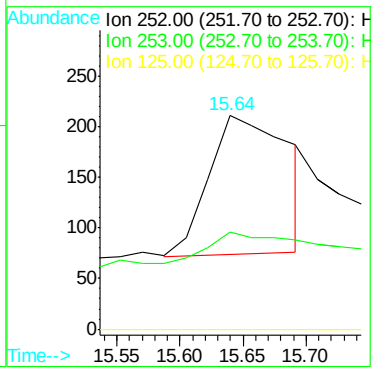




#27
Benzo[b]fluoranthene
Concen: 0.21 ppb m
RT: 15.64 min Scan# 593
Delta R.T. 0.05 min
Lab File: H35505.D
Acq: 20 Oct 2009 8:37 pm

Tgt Ion:252 Resp: 600

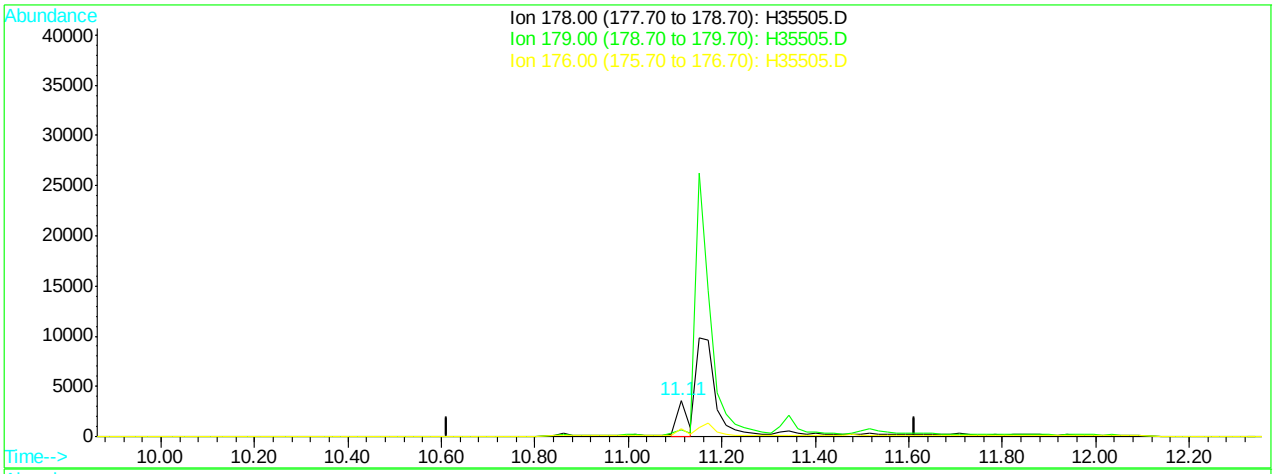
Ion	Ratio	Lower	Upper
252	100		
253	45.5	15.1	28.1#
125	0.0	0.0	0.0

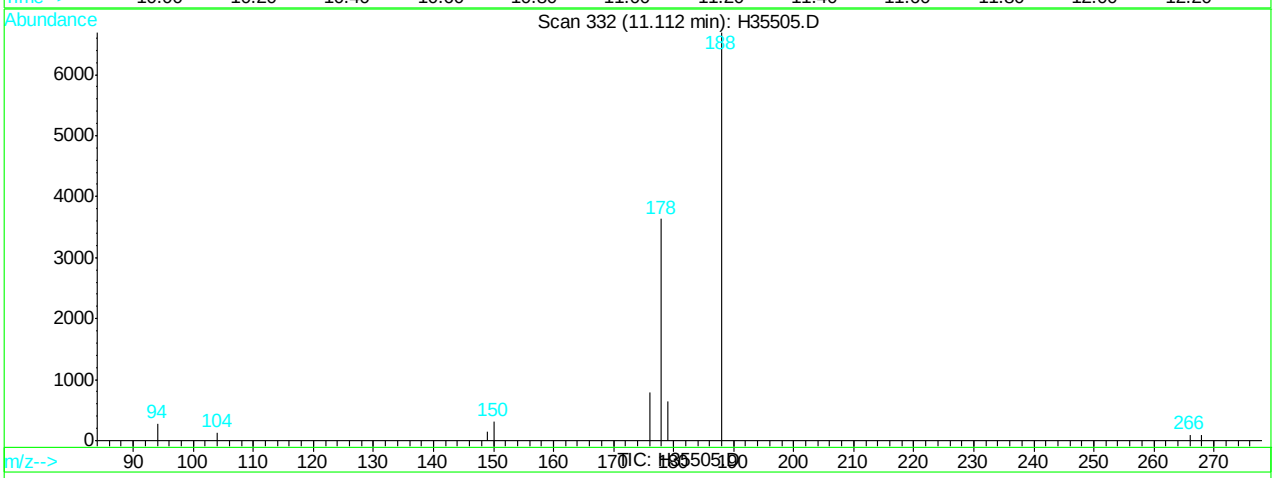


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.13ppb m

response 5175

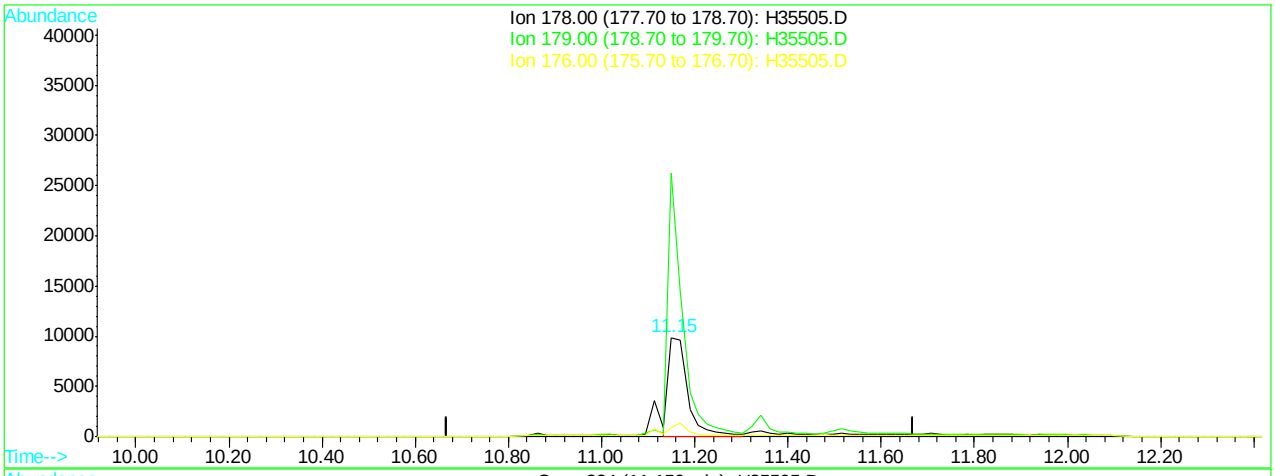
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	17.84
176.00	17.10	21.83
0.00	0.00	0.00

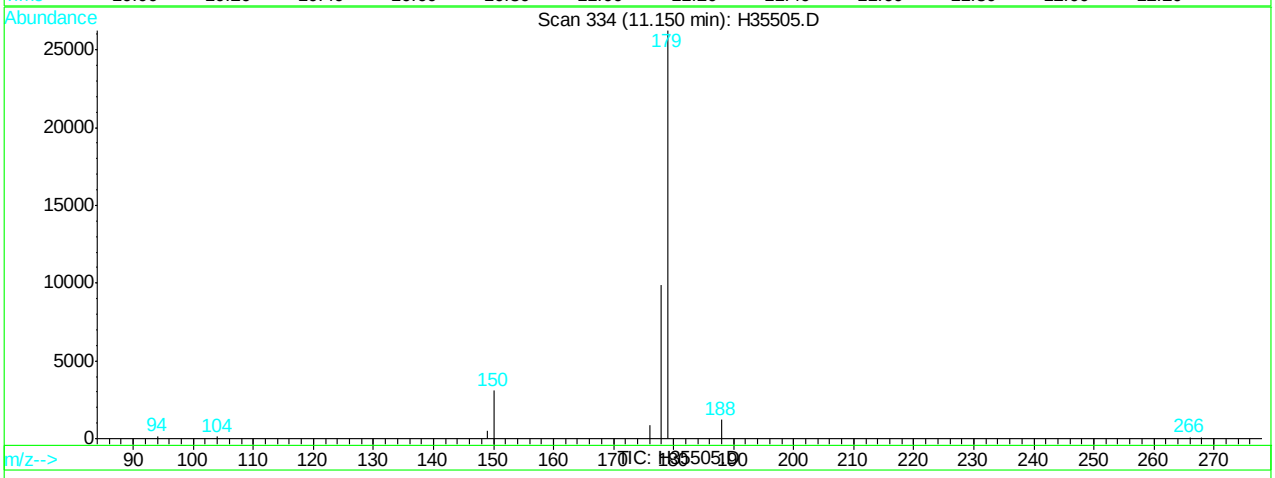
H35505.D H10209SP.M Wed Oct 21 12:17:26 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.15min 0.72ppb m

response 29213

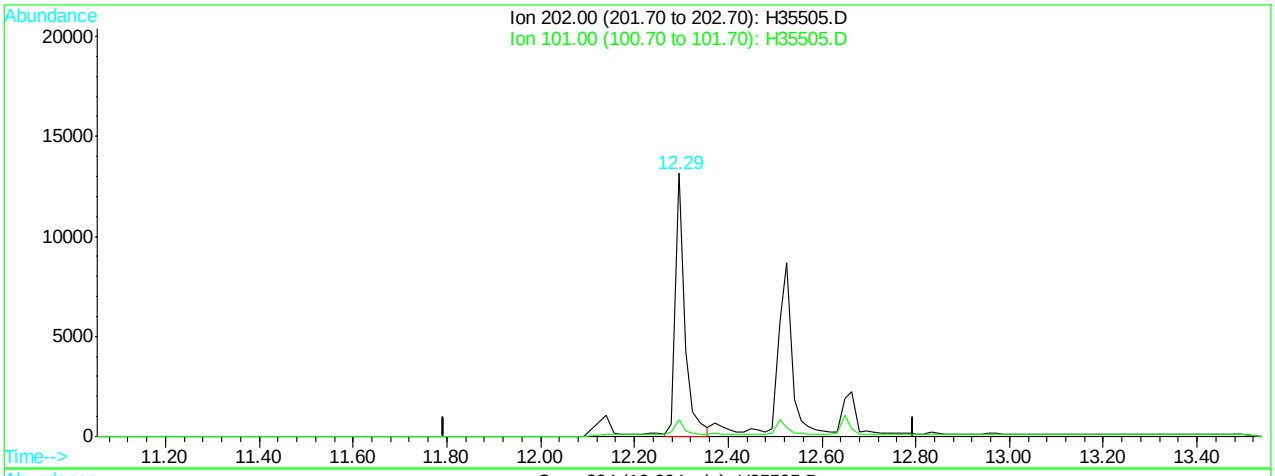
Ion	Exp%	Act%
178.00	100	100
179.00	17.60	265.91#
176.00	16.70	8.54#
0.00	0.00	0.00

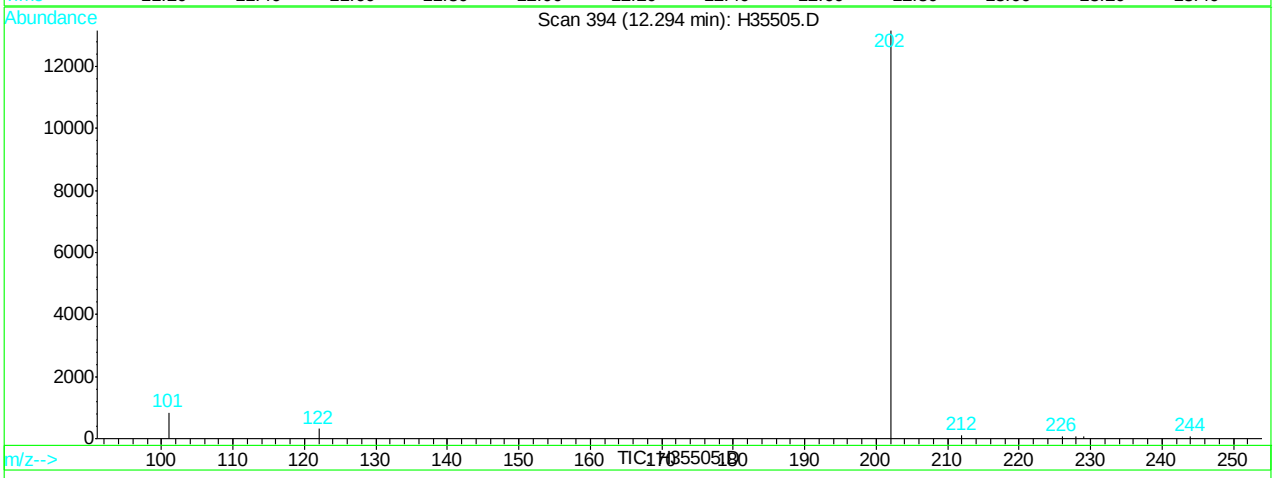
H35505.D H10209SP.M Wed Oct 21 12:17:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(20) Fluoranthene (T)

12.29min 0.49ppb m

response 18827

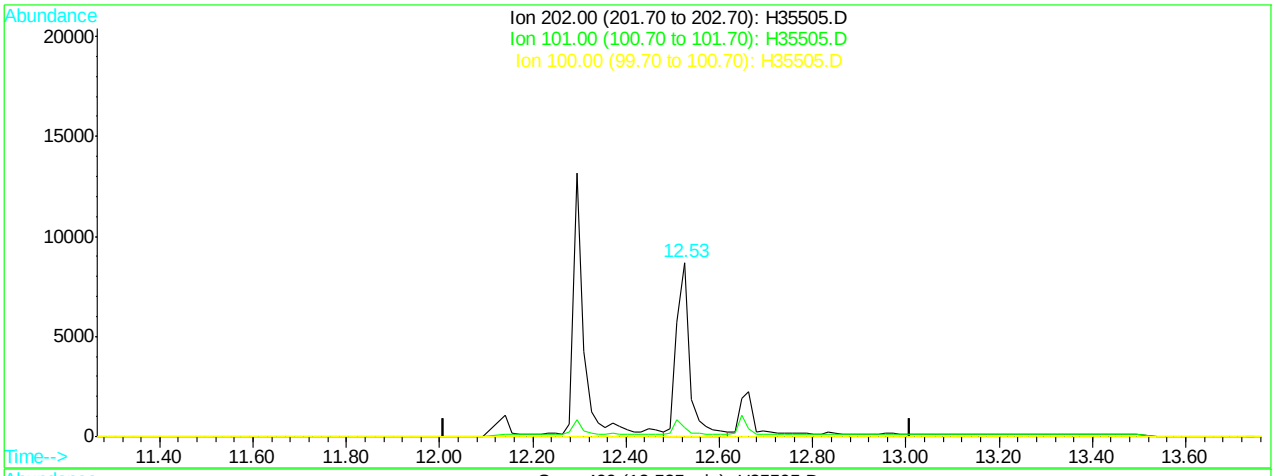
Ion	Exp%	Act%
202.00	100	100
101.00	4.10	6.45#
0.00	0.00	0.00
0.00	0.00	0.00

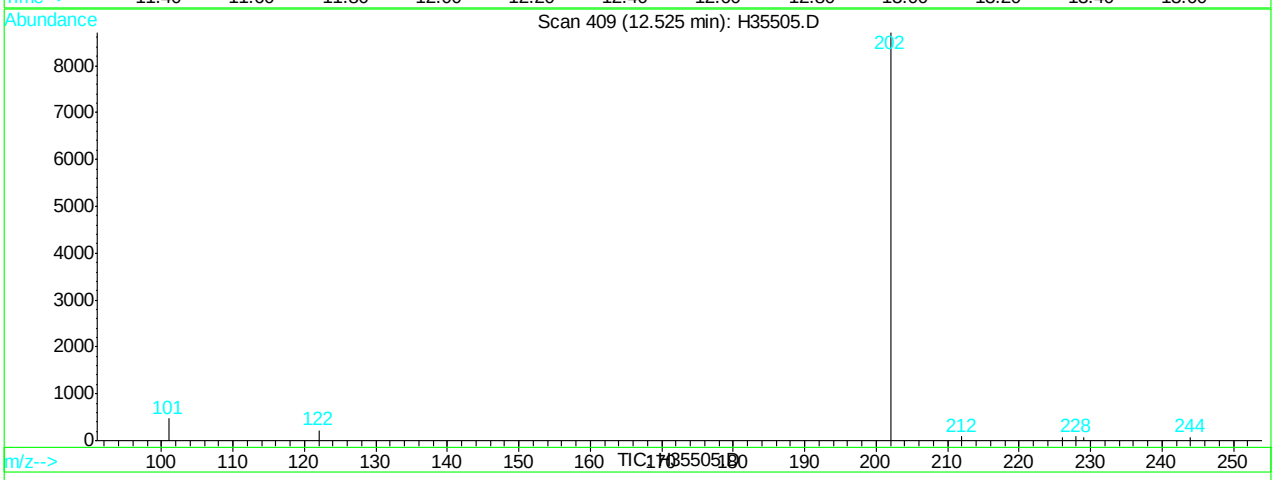
H35505.D H10209SP.M Wed Oct 21 12:17:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.53min 0.60ppb m

response 17373

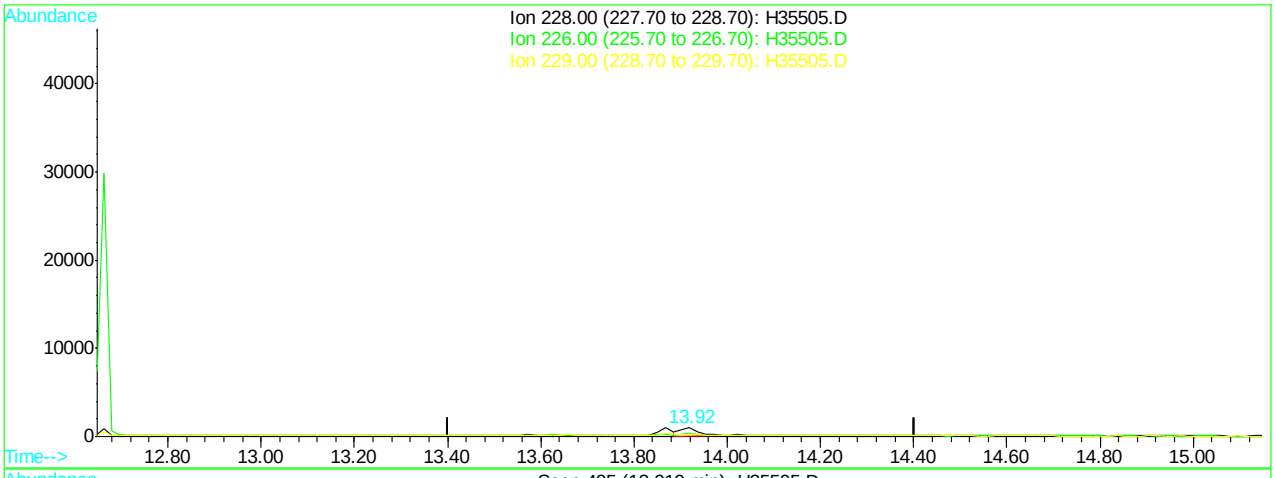
Ion	Exp%	Act%
202.00	100	100
101.00	6.90	5.42
100.00	0.00	0.00
0.00	0.00	0.00

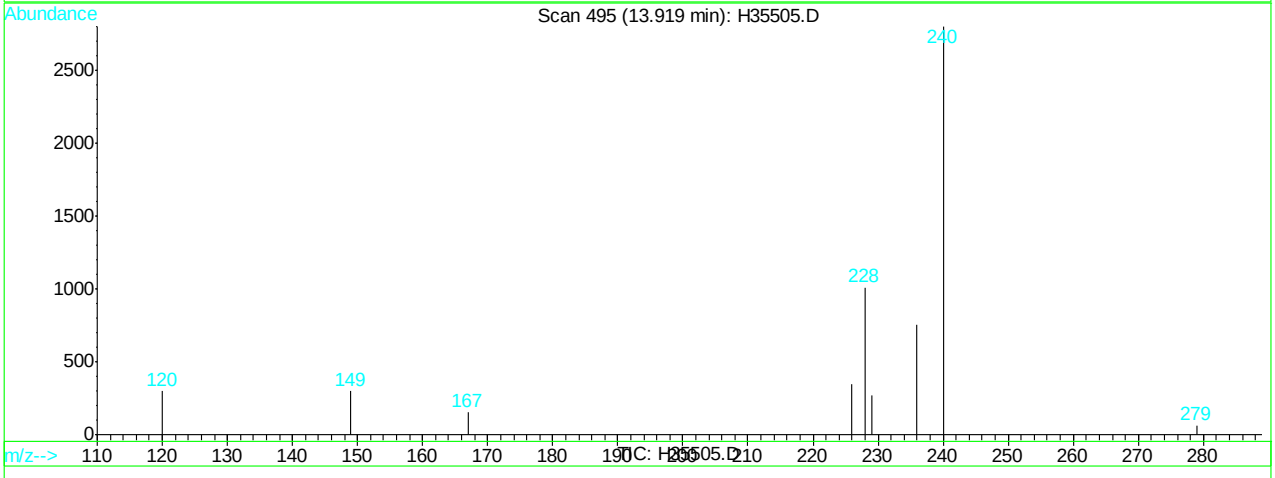
H35505.D H10209SP.M Wed Oct 21 12:17:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.15ppb m

response 2747

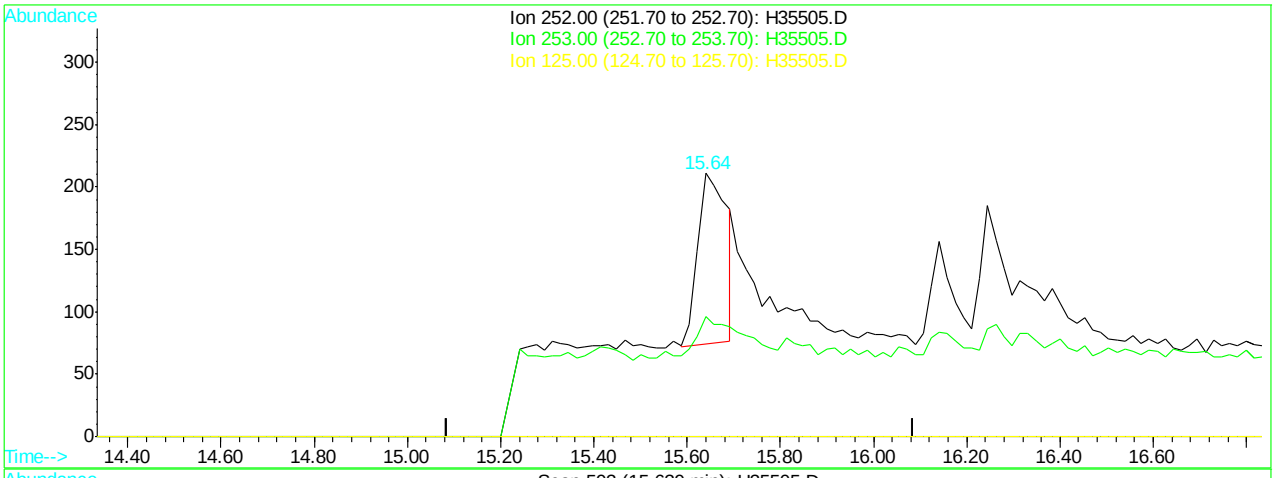
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	33.99
229.00	19.10	26.76#
0.00	0.00	0.00

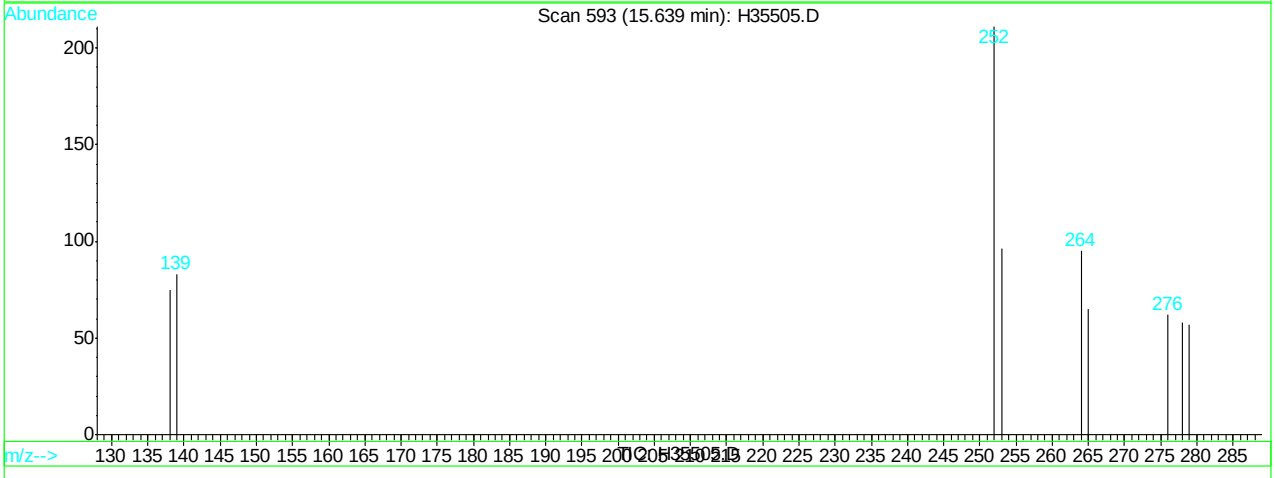
H35505.D H10209SP.M Wed Oct 21 12:17:42 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35505.D Vial: 23
Acq On : 20 Oct 2009 8:37 pm Operator: sheilac
Sample : t39314-2 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:16 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:02:20 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 0.21ppb m

response 600

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	45.50#
125.00	0.00	0.00
0.00	0.00	0.00

H35505.D H10209SP.M Wed Oct 21 12:17:46 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35525.D Vial: 14
Acq On : 21 Oct 2009 4:55 pm Operator: sheilac
Sample : t39314-3 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:19 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 16:49:29 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	89975	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	92876	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	41661	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	92673	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	40270	4.00	ppb	0.00
26) Perylene-d12	16.35	264	7494	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.58	82	64011	16.07	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 321.40%#			
10) 2-Fluorobiphenyl	8.87	172	785091	27.97	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 559.40%#			
16) 2,4,6-Tribromophenol	10.42	330	334464	110.72	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1107.20%#			
23) Terphenyl-d14	12.68	244	415750	54.39	ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery = 1087.80%#			

Target Compounds

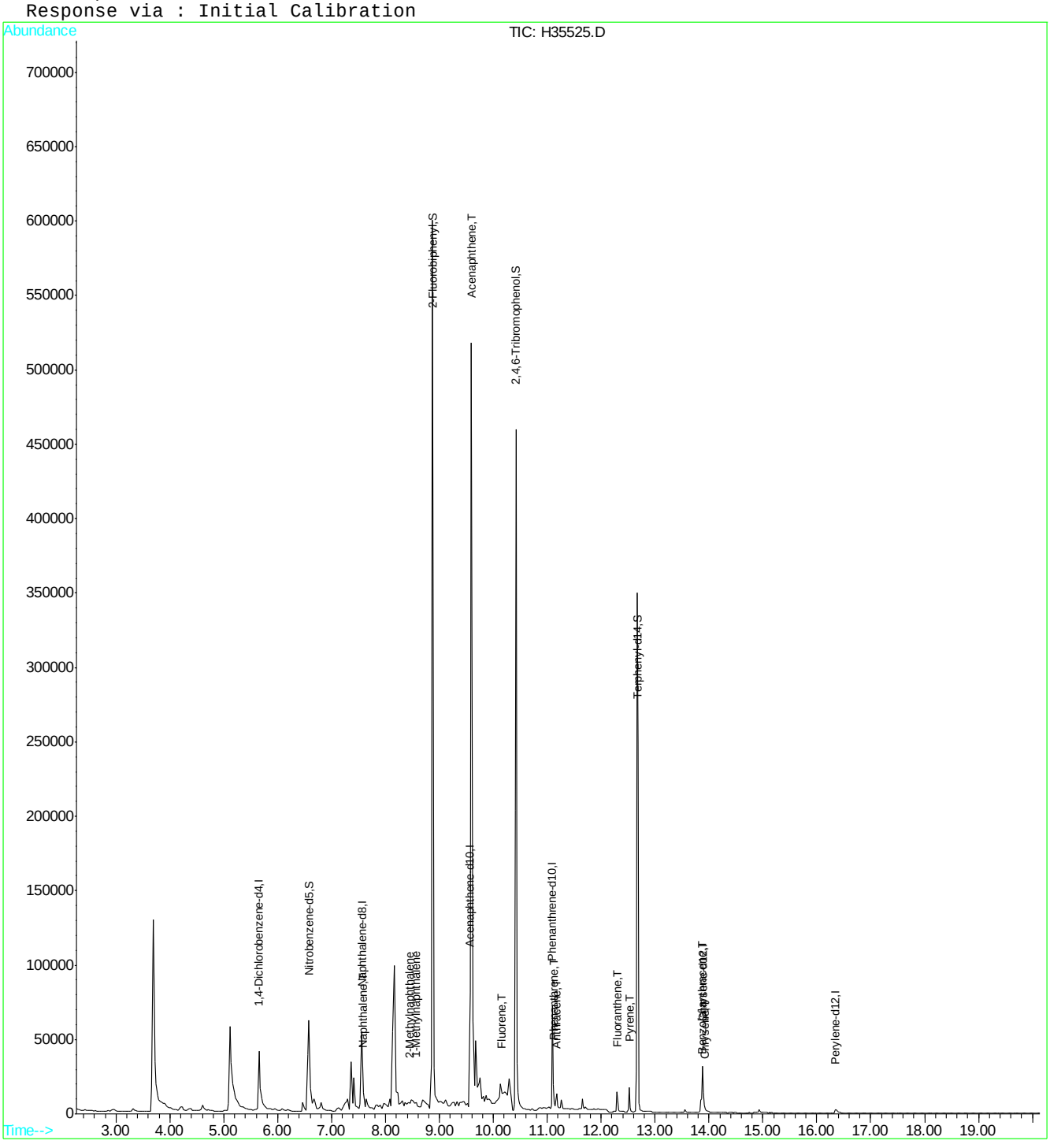
							Qvalue
6) Naphthalene	7.59	128	12532	0.54	ppb		92
7) 2-Methylnaphthalene	8.45	142	1248	0.19	ppb	#	97
8) 1-Methylnaphthalene	8.57	142	5161	0.06	ppb	#	83
12) Acenaphthene	9.60	153	387570	16.27	ppb	#	73
14) Fluorene	10.16	166	4201m	0.39	ppb		
18) Phenanthrene	11.11	178	8652	0.19	ppb		90
19) Anthracene	11.17	178	9845	0.21	ppb	#	93
20) Fluoranthene	12.29	202	19935	0.50	ppb	#	91
22) Pyrene	12.52	202	20892	0.57	ppb	#	83
24) Benzo[a]anthracene	13.87	228	1806	0.14	ppb		89
25) Chrysene	13.92	228	1634	0.10	ppb		96

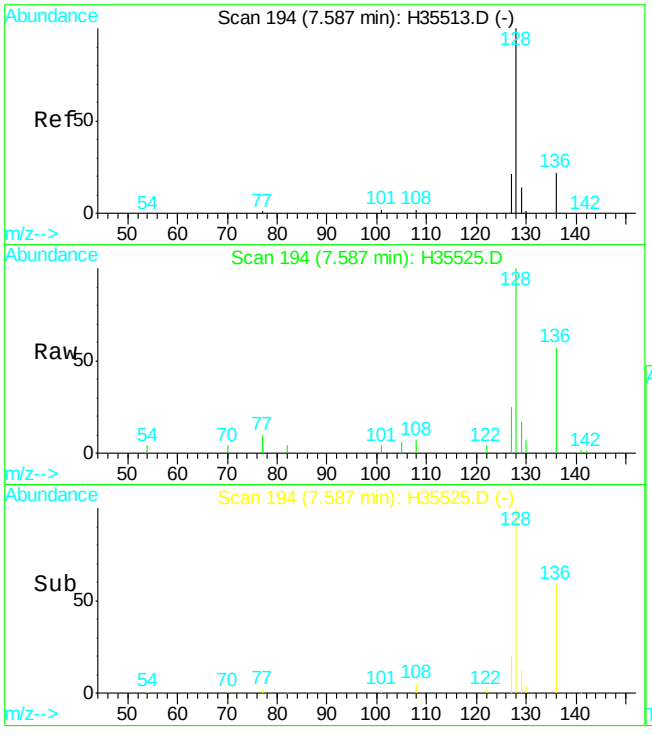
(#) = qualifier out of range (m) = manual integration
H35525.D H10219SP.M Thu Oct 22 12:20:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35525.D Vial: 14
Acq On : 21 Oct 2009 4:55 pm Operator: sheilac
Sample : t39314-3 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:19 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Initial Calibration

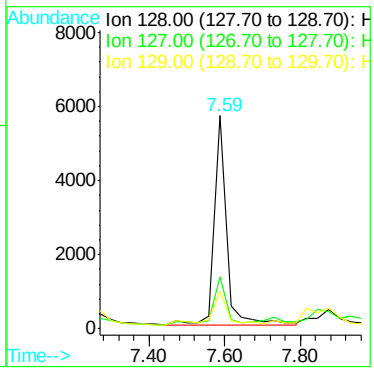


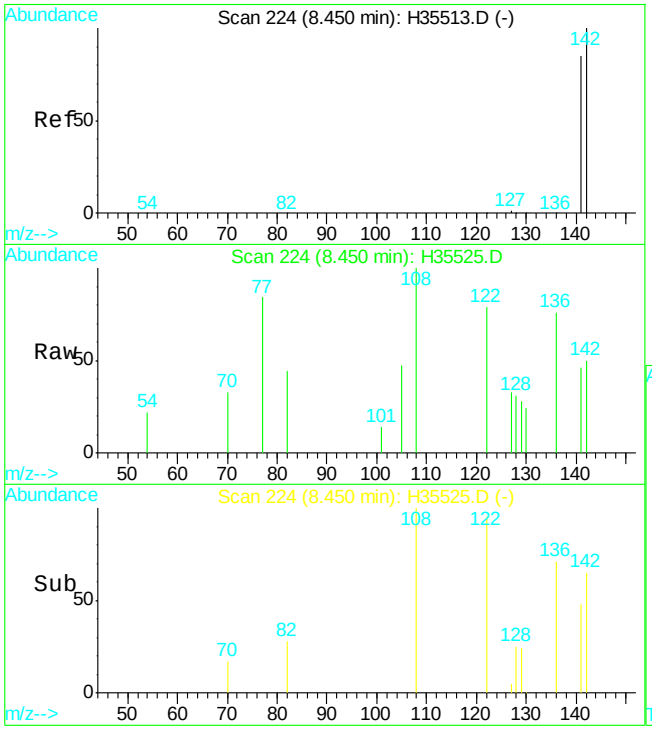


#6
Naphthalene
Concen: 0.54 ppb
RT: 7.59 min Scan# 194
Delta R.T. 0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:128 Resp: 12532

Ion	Ratio	Lower	Upper
128	100		
127	22.5	12.6	23.4
129	15.6	9.6	17.8

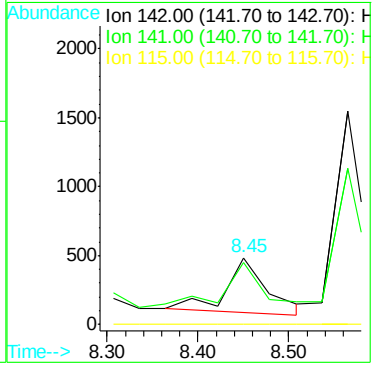


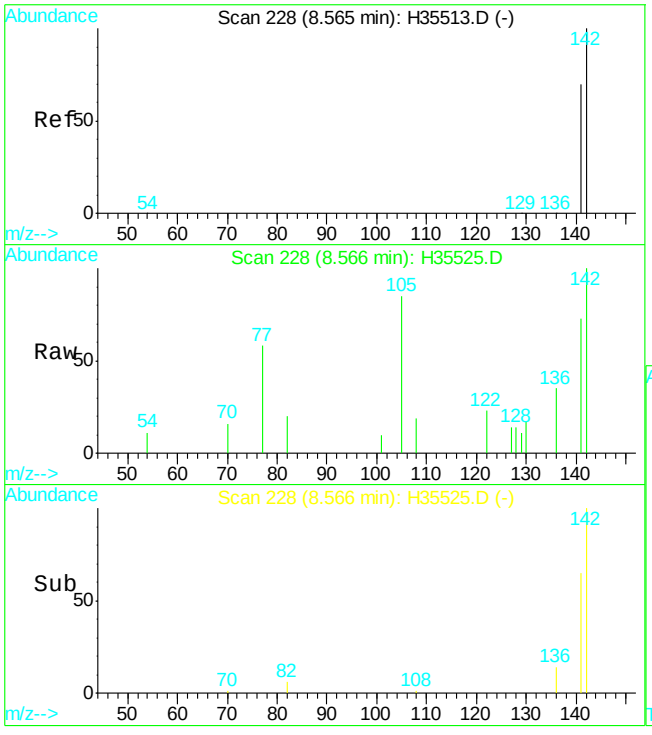


#7
2-Methylnaphthalene
Concen: 0.19 ppb
RT: 8.45 min Scan# 224
Delta R.T. 0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:142 Resp: 1248

Ion	Ratio	Lower	Upper
142	100		
141	75.1	50.7	94.1
115	0.0	0.0	0.0

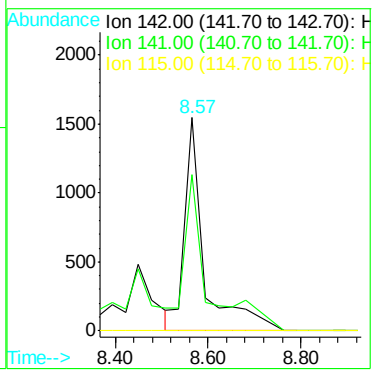


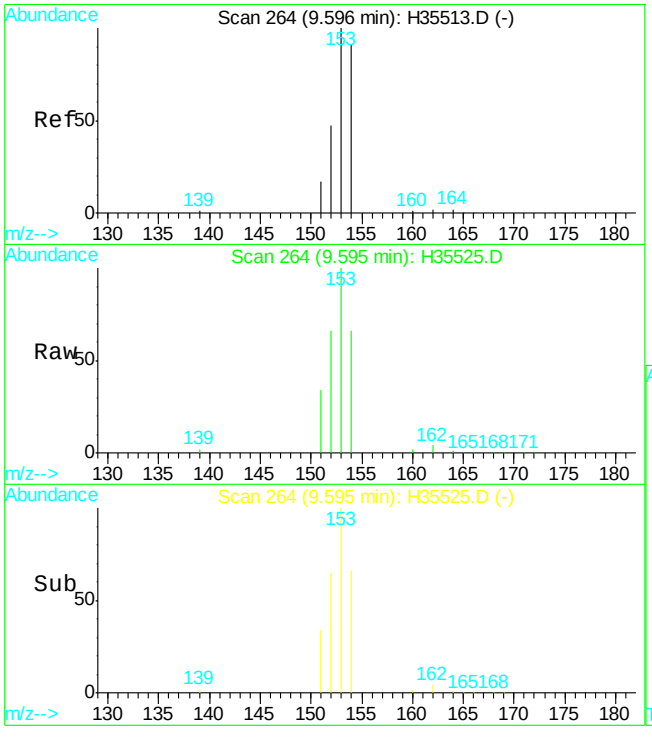


#8
1-Methylnaphthalene
Concen: 0.06 ppb
RT: 8.57 min Scan# 228
Delta R.T. 0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:142 Resp: 5161

Ion	Ratio	Lower	Upper
142	100		
141	85.5	50.2	93.2
115	0.0	0.0	0.0

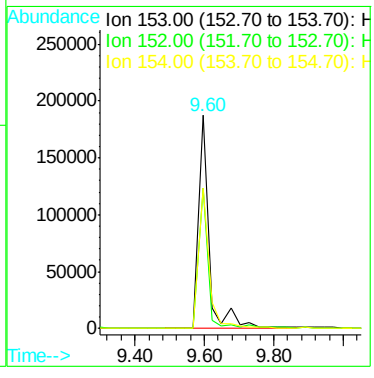


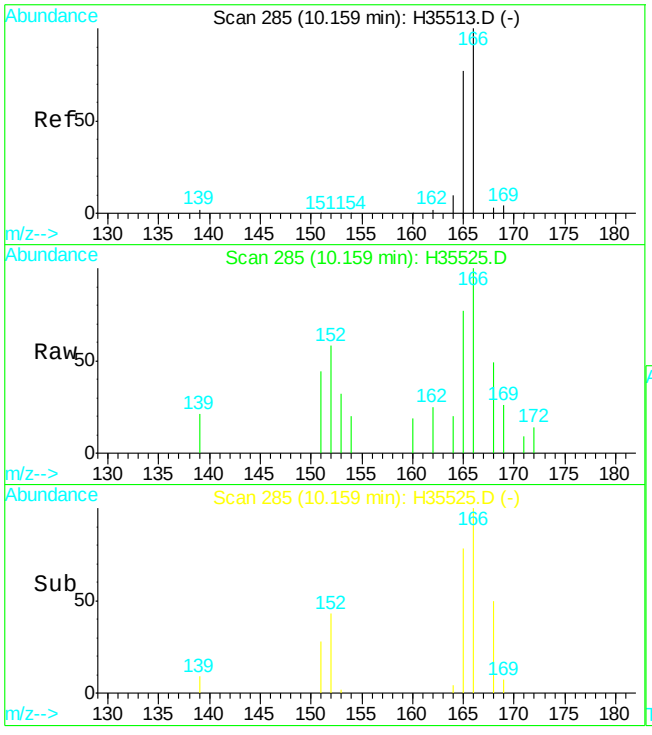


#12
Acenaphthene
Concen: 16.27 ppb
RT: 9.60 min Scan# 264
Delta R.T. -0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:153 Resp: 387570

Ion	Ratio	Lower	Upper
153	100		
152	65.6	33.0	61.4#
154	65.8	63.6	118.2

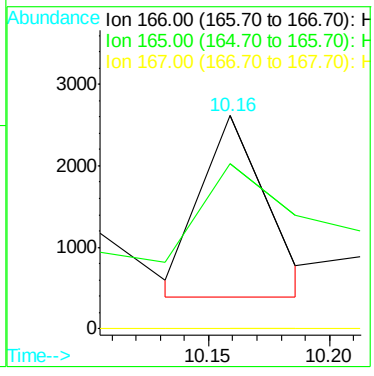


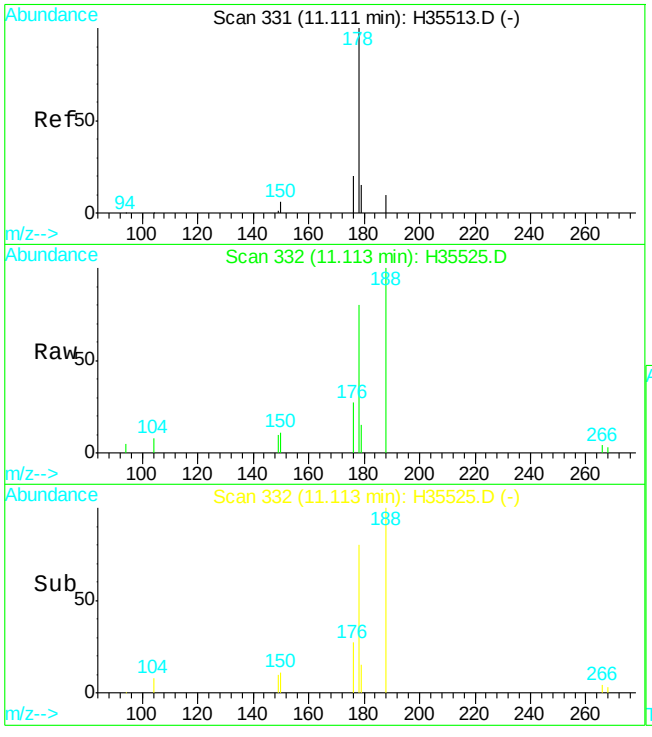


#14
Fluorene
Concen: 0.39 ppb m
RT: 10.16 min Scan# 285
Delta R.T. -0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:166 Resp: 4201

Ion	Ratio	Lower	Upper
166	100		
165	77.4	53.6	99.6
167	0.0	0.0	0.0

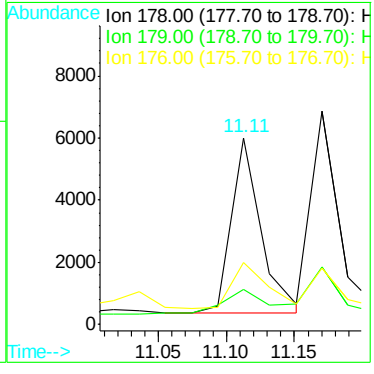


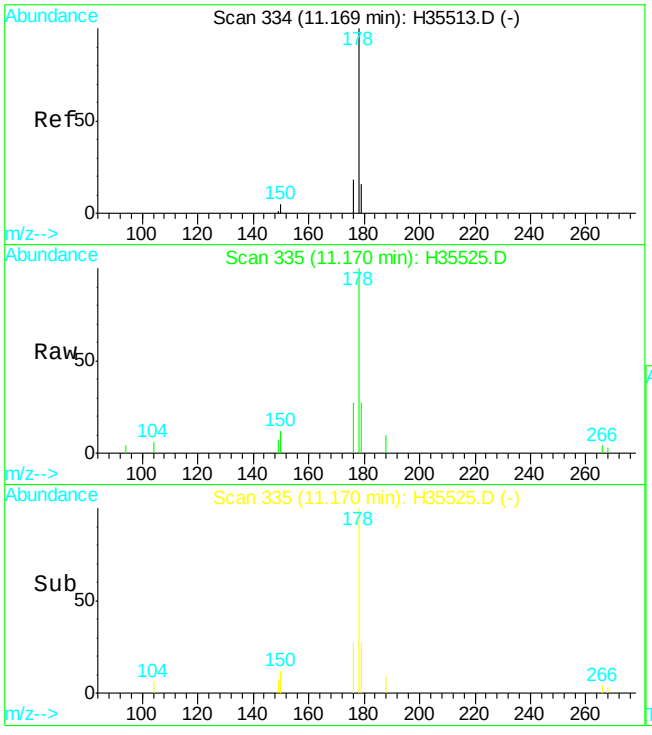


#18
Phenanthrene
Concen: 0.19 ppb
RT: 11.11 min Scan# 332
Delta R.T. 0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:178 Resp: 8652

Ion	Ratio	Lower	Upper
178	100		
179	11.6	10.4	19.2
176	25.3	14.0	26.0

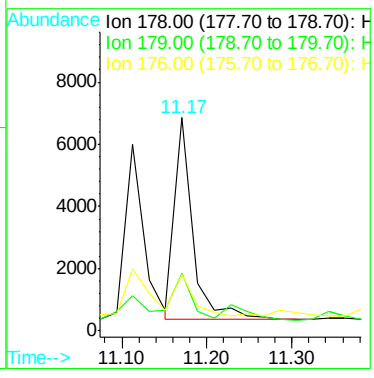


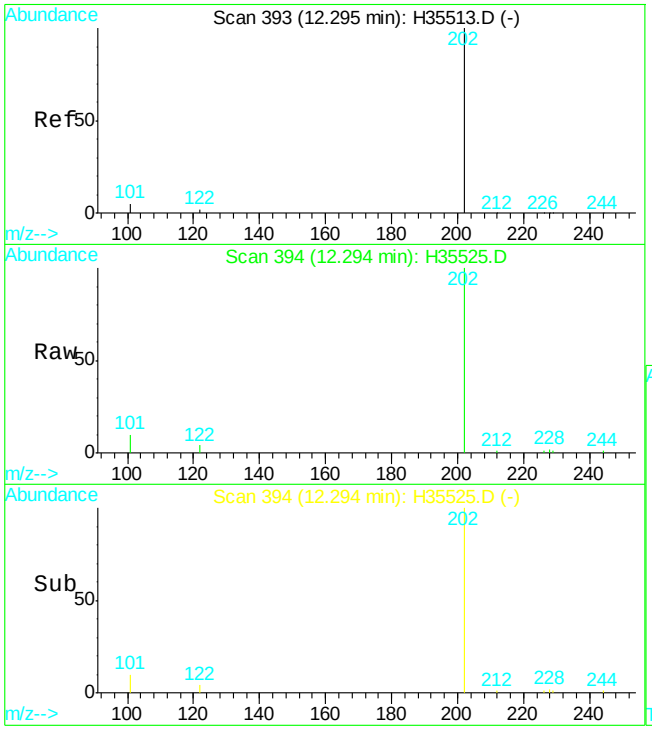


#19
Anthracene
Concen: 0.21 ppb
RT: 11.17 min Scan# 335
Delta R.T. 0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:178 Resp: 9845

Ion	Ratio	Lower	Upper
178	100		
179	21.5	11.2	20.8#
176	18.9	12.5	23.3

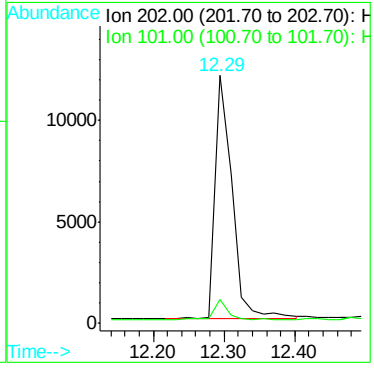




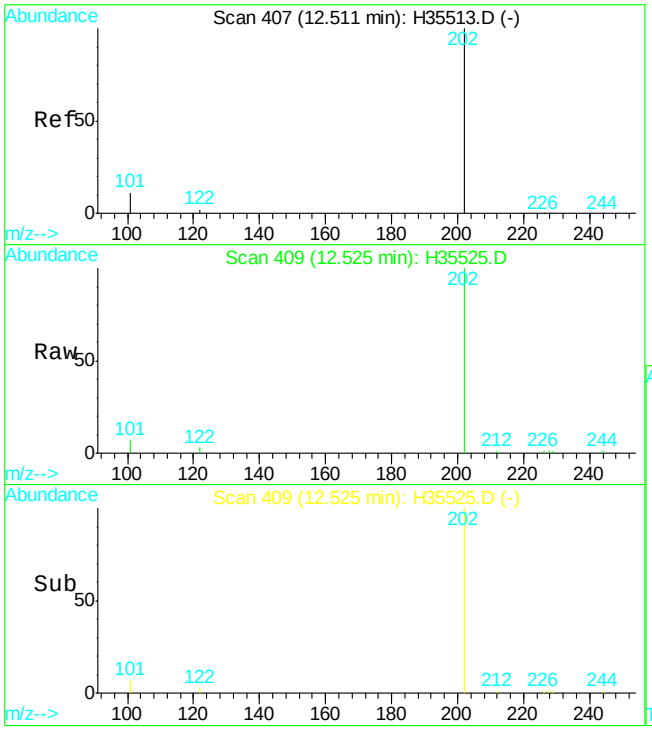
#20
Fluoranthene
Concen: 0.50 ppb
RT: 12.29 min Scan# 394
Delta R.T. -0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:202 Resp: 19935

Ion	Ratio	Lower	Upper
202	100		
101	8.0	3.6	6.6#



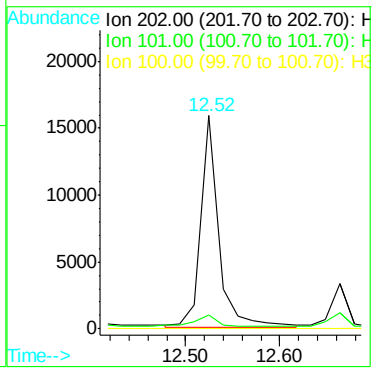
8.1.17
8

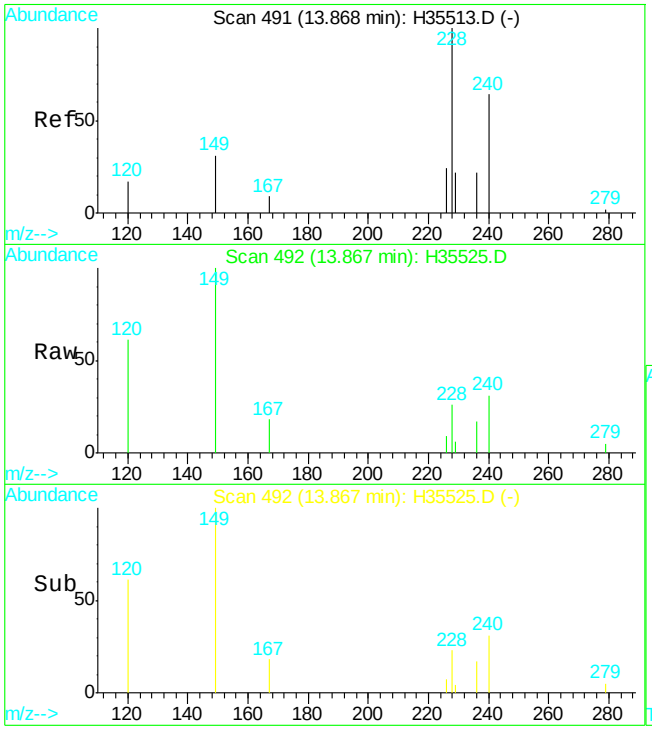


#22
Pyrene
Concen: 0.57 ppb
RT: 12.52 min Scan# 409
Delta R.T. 0.01 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:202 Resp: 20892

Ion	Ratio	Lower	Upper
202	100		
101	5.3	8.2	15.2#
100	0.0	0.0	0.0

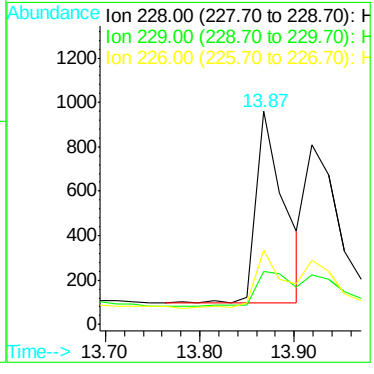


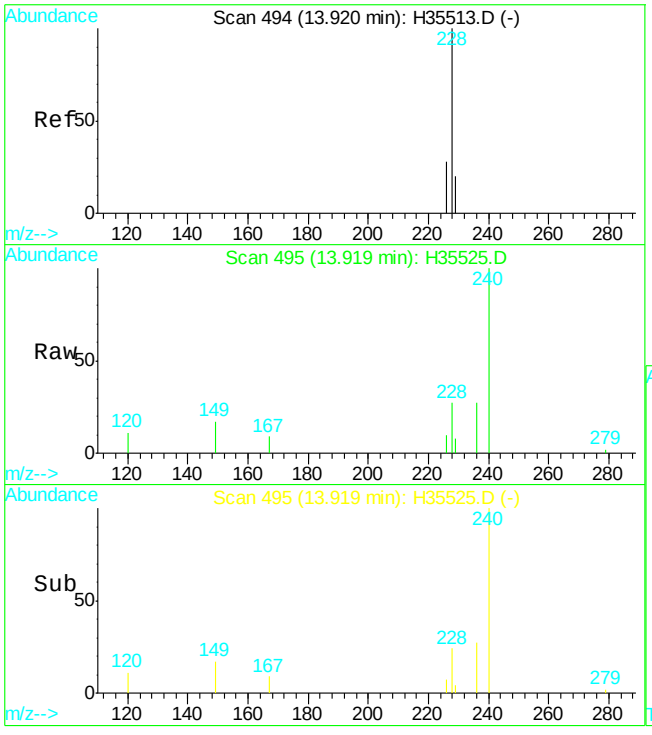


#24
Benzo[a]anthracene
Concen: 0.14 ppb
RT: 13.87 min Scan# 492
Delta R.T. -0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:228 Resp: 1806

Ion	Ratio	Lower	Upper
228	100		
229	16.0	15.3	28.3
226	28.9	16.6	30.8

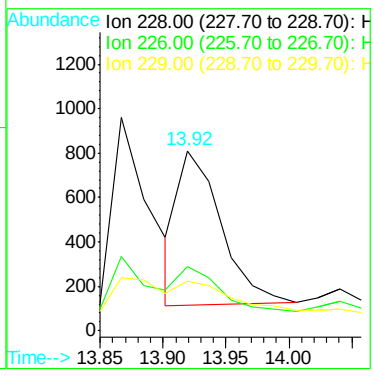




#25
Chrysene
Concen: 0.10 ppb
RT: 13.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: H35525.D
Acq: 21 Oct 2009 4:55 pm

Tgt Ion:228 Resp: 1634

Ion	Ratio	Lower	Upper
228	100		
226	28.5	19.6	36.4
229	17.6	14.6	27.2



8.1.17

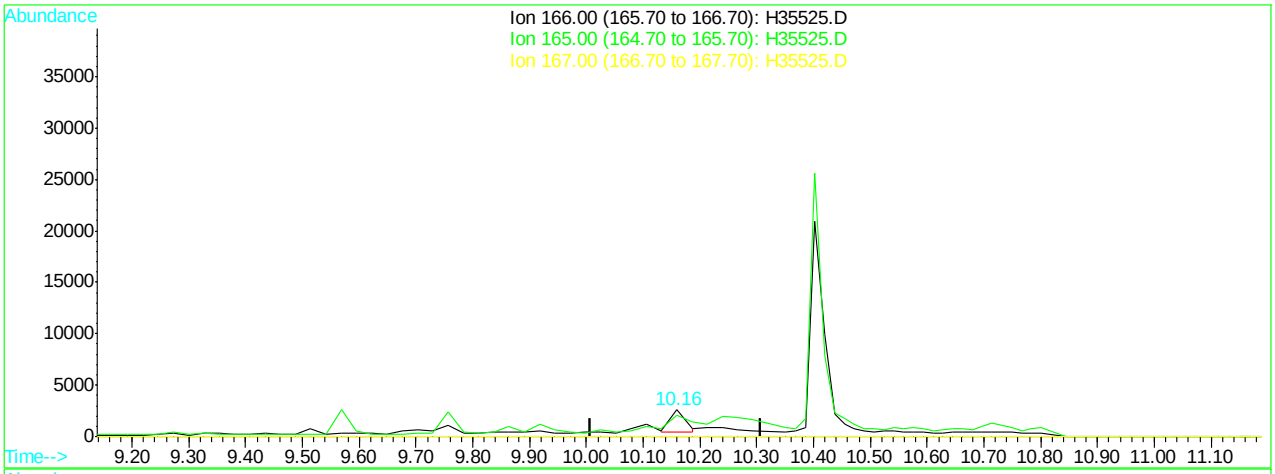
8

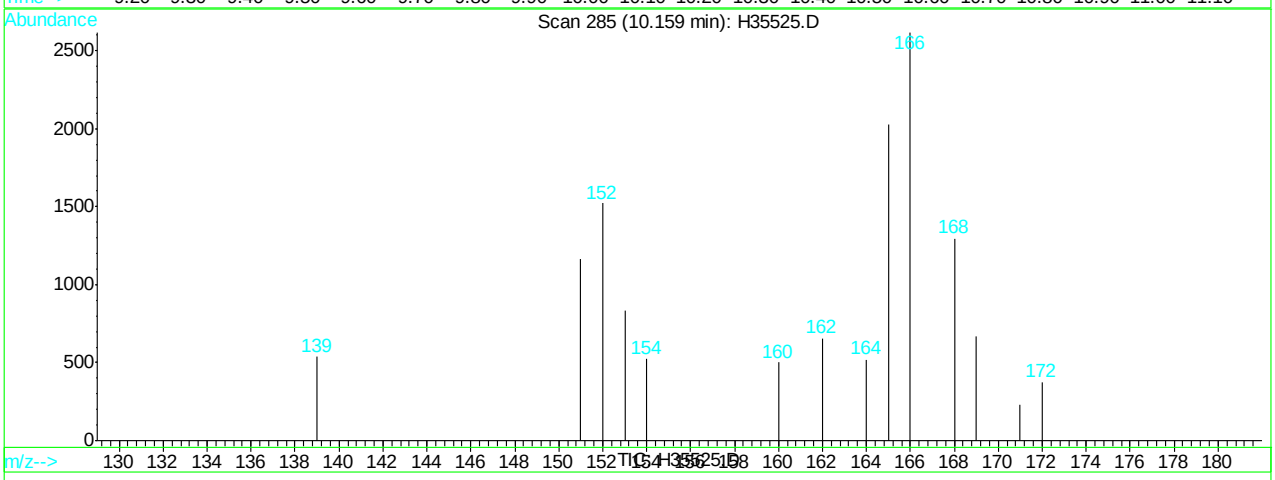
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35525.D Vial: 14
Acq On : 21 Oct 2009 4:55 pm Operator: sheilac
Sample : t39314-3 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:19 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.16min 0.39ppb m

response 4201

Ion	Exp%	Act%
166.00	100	100
165.00	76.60	77.38
167.00	0.00	0.00
0.00	0.00	0.00

H35525.D H10219SP.M Thu Oct 22 12:20:28 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35528.D Vial: 17
Acq On : 21 Oct 2009 6:14 pm Operator: sheilac
Sample : t39314-3,4x Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:37 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 18:27:32 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	65206	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	69226	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	40925	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	65060	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	32132	4.00	ppb	0.00
26) Perylene-d12	16.35	264	6581	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.58	82	15049	5.07	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 101.40%			
10) 2-Fluorobiphenyl	8.87	172	177846	6.45	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 129.00%			
16) 2,4,6-Tribromophenol	10.40	330	59400	28.01	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 280.10%#			
23) Terphenyl-d14	12.66	244	87016	14.27	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 285.40%#			

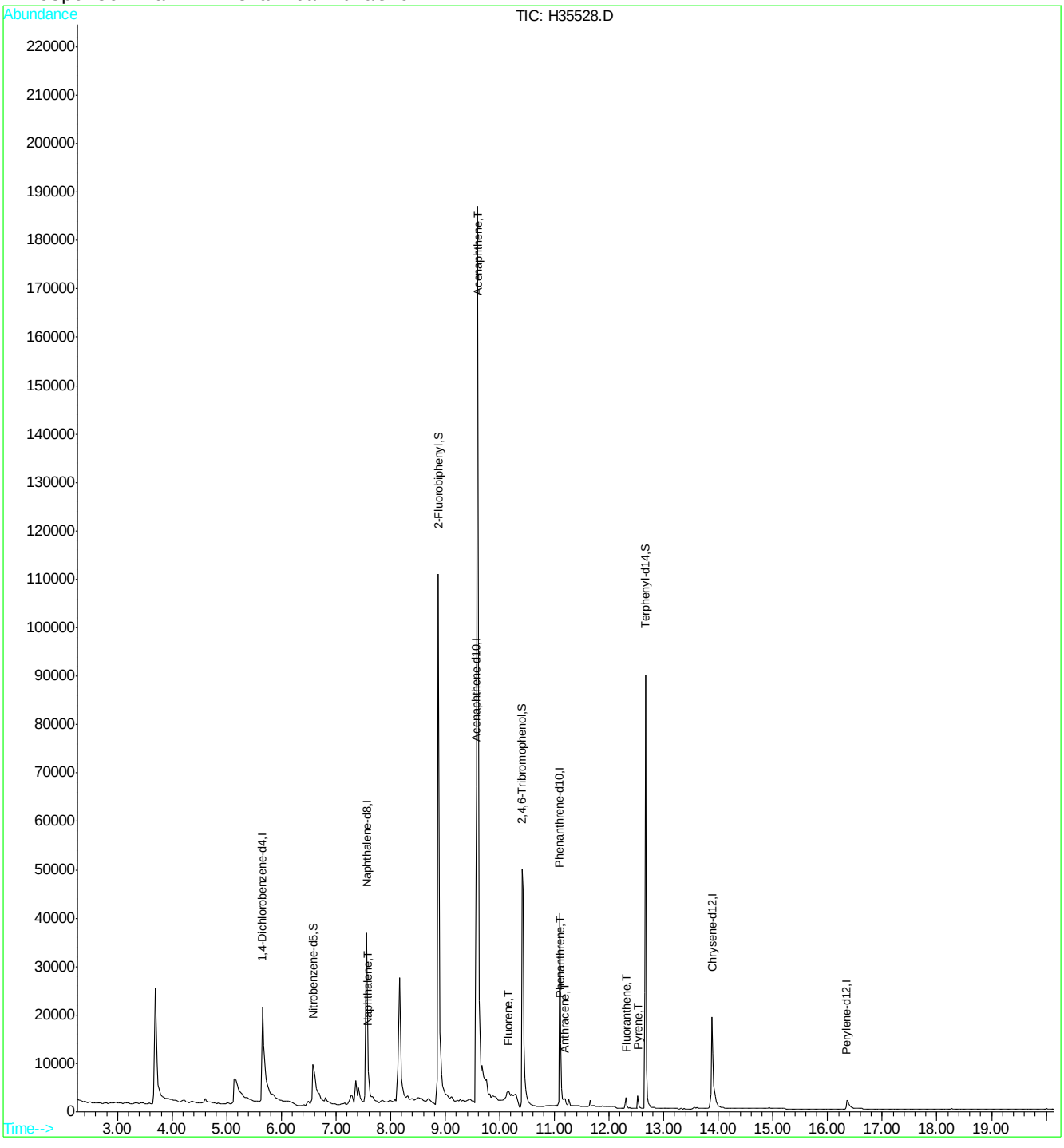
Target Compounds							Qvalue
6) Naphthalene	7.59	128	3024	0.17	ppb	#	92
12) Acenaphthene	9.60	153	127010	5.43	ppb		80
14) Fluorene	10.16	166	920m	0.09	ppb		
18) Phenanthrene	11.11	178	1715	0.05	ppb	#	85
19) Anthracene	11.19	178	1811	0.06	ppb	#	91
20) Fluoranthene	12.31	202	3850	0.14	ppb		97
22) Pyrene	12.53	202	4354	0.09	ppb	#	89

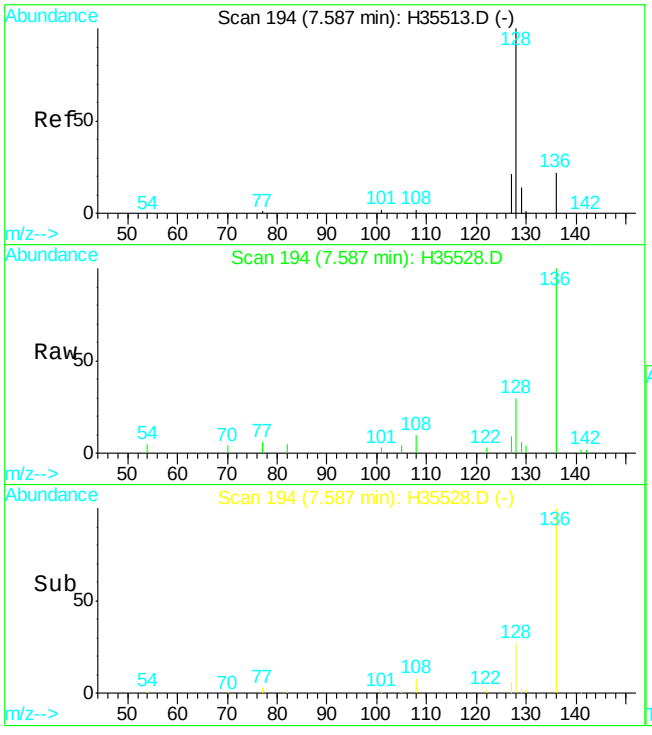
(#) = qualifier out of range (m) = manual integration
H35528.D H10219SP.M Thu Oct 22 12:38:22 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35528.D Vial: 17
Acq On : 21 Oct 2009 6:14 pm Operator: sheilac
Sample : t39314-3,4x Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:37 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Initial Calibration

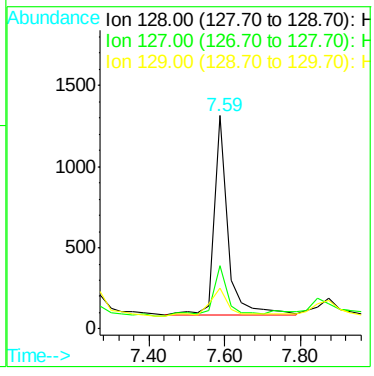


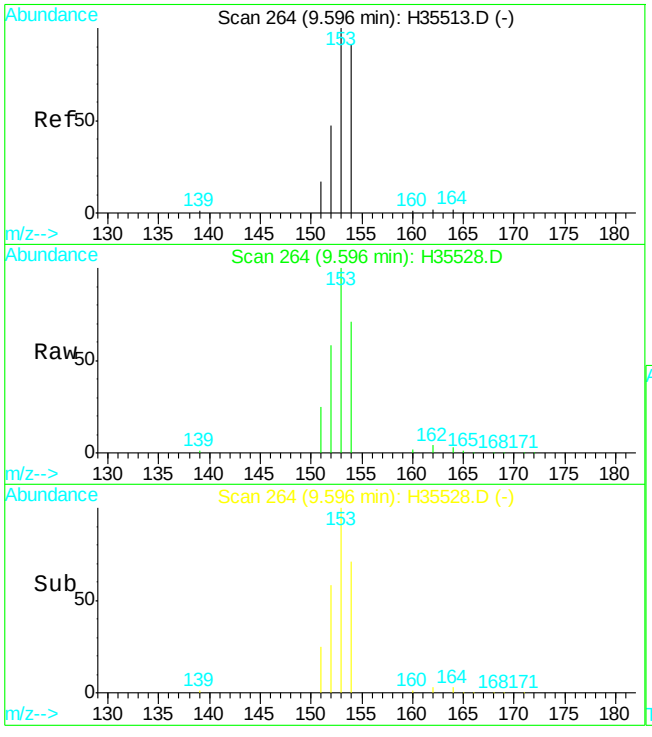


#6
Naphthalene
Concen: 0.17 ppb
RT: 7.59 min Scan# 194
Delta R.T. 0.00 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:128 Resp: 3024

Ion	Ratio	Lower	Upper
128	100		
127	24.5	12.6	23.4#
129	13.7	9.6	17.8

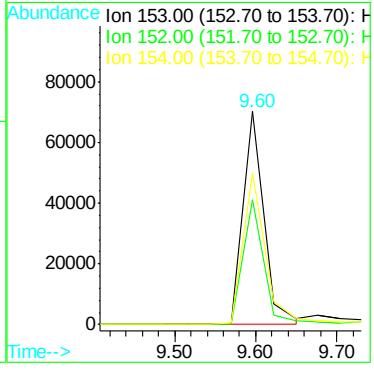


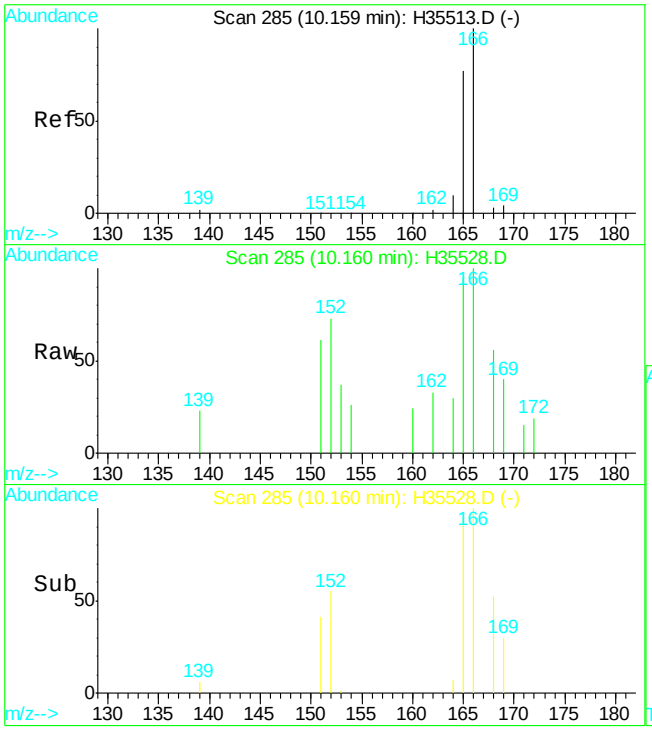


#12
Acenaphthene
Concen: 5.43 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:153 Resp: 127010

Ion	Ratio	Lower	Upper
153	100		
152	58.4	33.0	61.4
154	70.8	63.6	118.2

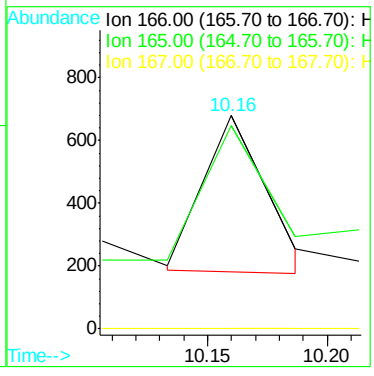


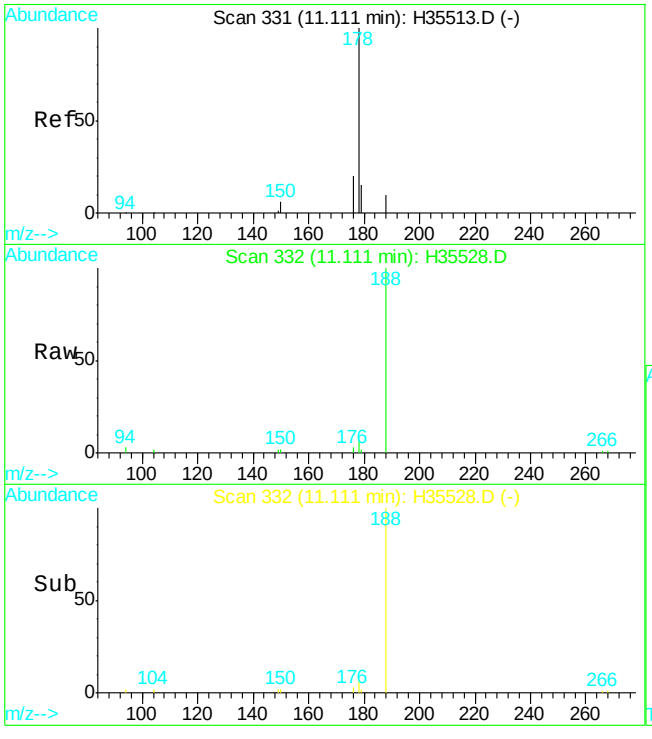


#14
Fluorene
Concen: 0.09 ppb m
RT: 10.16 min Scan# 285
Delta R.T. 0.00 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:166 Resp: 920

Ion	Ratio	Lower	Upper
166	100		
165	95.3	53.6	99.6
167	0.0	0.0	0.0

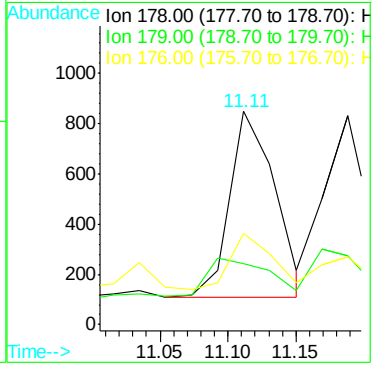


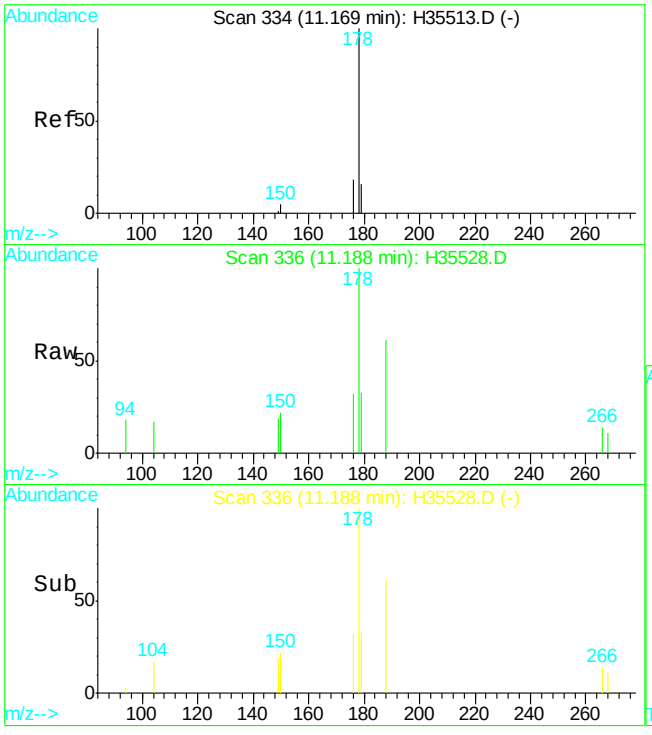


#18
Phenanthrene
Concen: 0.05 ppb
RT: 11.11 min Scan# 332
Delta R.T. 0.00 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:178 Resp: 1715

Ion	Ratio	Lower	Upper
178	100		
179	17.1	10.4	19.2
176	29.7	14.0	26.0#

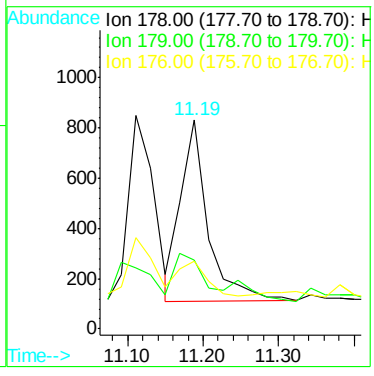


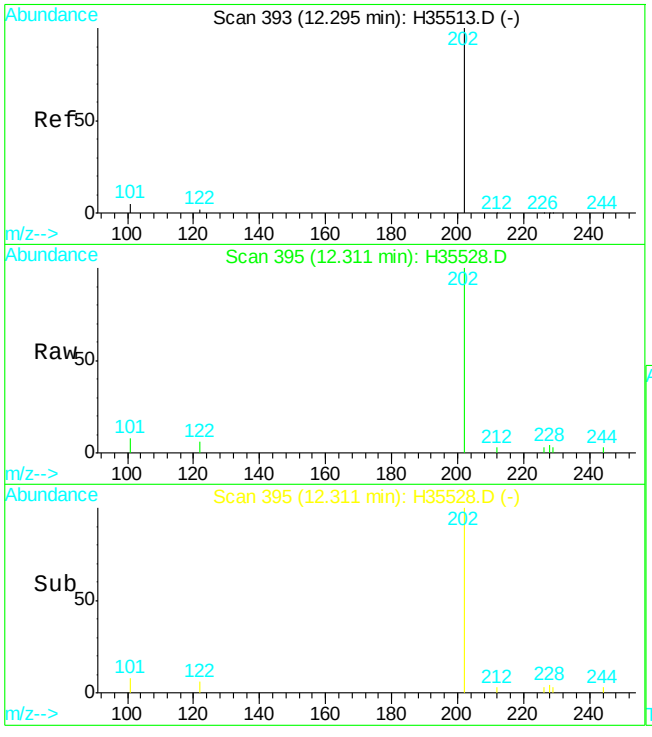


#19
Anthracene
Concen: 0.06 ppb
RT: 11.19 min Scan# 336
Delta R.T. 0.02 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:178 Resp: 1811

Ion	Ratio	Lower	Upper
178	100		
179	22.4	11.2	20.8#
176	16.6	12.5	23.3

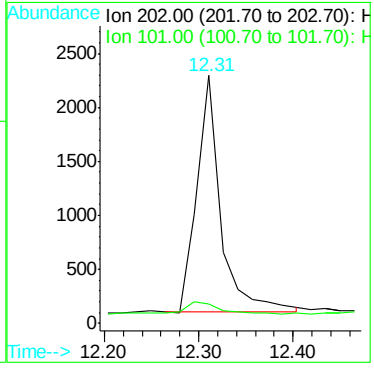


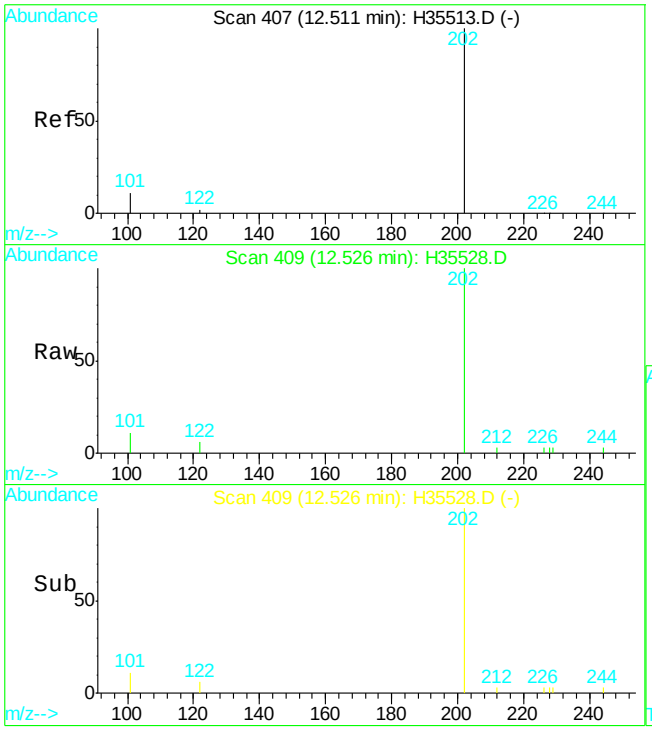


#20
Fluoranthene
Concen: 0.14 ppb
RT: 12.31 min Scan# 395
Delta R.T. 0.02 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:202 Resp: 3850

Ion	Ratio	Lower	Upper
202	100		
101	4.0	3.6	6.6

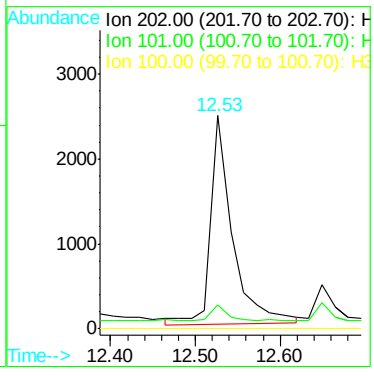




#22
Pyrene
Concen: 0.09 ppb
RT: 12.53 min Scan# 409
Delta R.T. 0.02 min
Lab File: H35528.D
Acq: 21 Oct 2009 6:14 pm

Tgt Ion:202 Resp: 4354

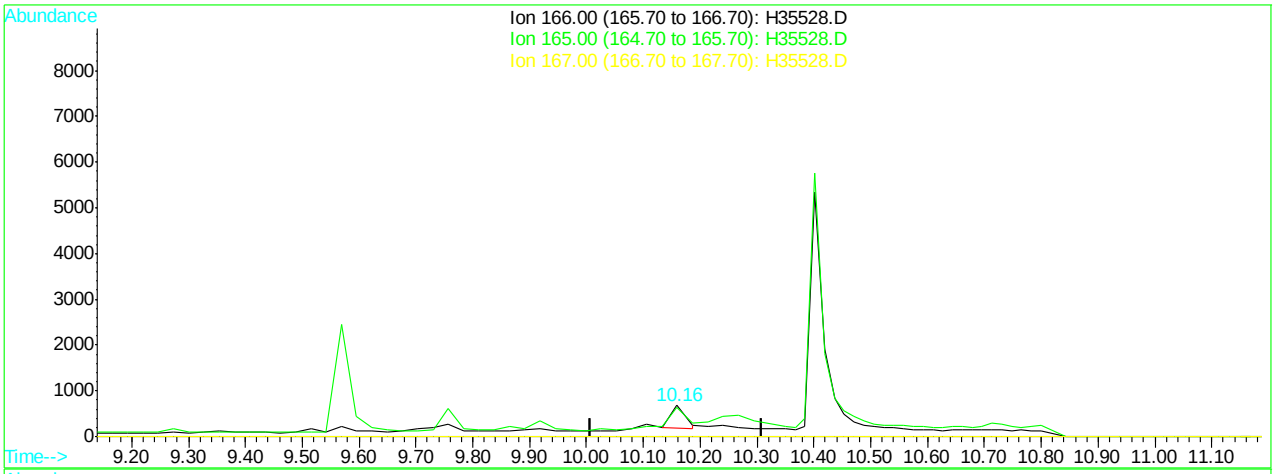
Ion	Ratio	Lower	Upper
202	100		
101	7.3	8.2	15.2#
100	0.0	0.0	0.0

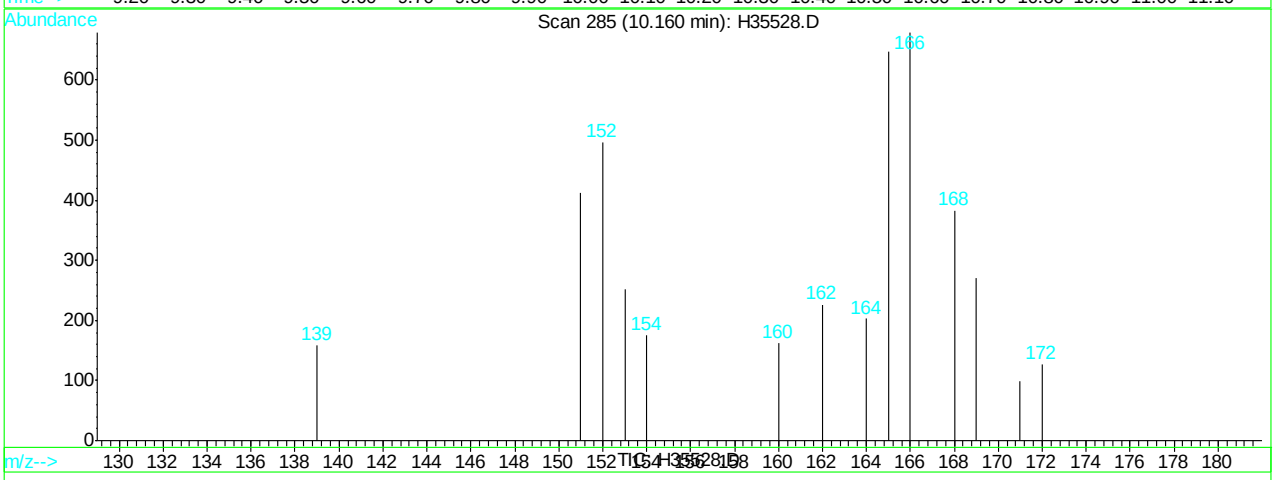


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35528.D Vial: 17
Acq On : 21 Oct 2009 6:14 pm Operator: sheilac
Sample : t39314-3,4x Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:37 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.16min 0.09ppb m

response 920

Ion	Exp%	Act%
166.00	100	100
165.00	76.60	95.29
167.00	0.00	0.00
0.00	0.00	0.00

H35528.D H10219SP.M Thu Oct 22 12:38:36 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35526.D Vial: 15
Acq On : 21 Oct 2009 5:20 pm Operator: sheilac
Sample : t39314-4 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:31 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 17:45:53 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	80316	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	81679	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	49031	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	73911	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	43847	4.00 ppb	0.00
26) Perylene-d12	16.35	264	8494	4.00 ppb	0.00

System Monitoring Compounds					
5) Nitrobenzene-d5	6.58	82	128269	36.62 ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 732.40%#		
10) 2-Fluorobiphenyl	8.87	172	1552187	46.99 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 939.80%#		
16) 2,4,6-Tribromophenol	10.42	330	334525	138.85 ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1388.50%#		
23) Terphenyl-d14	12.66	244	434461	52.20 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1044.00%#		

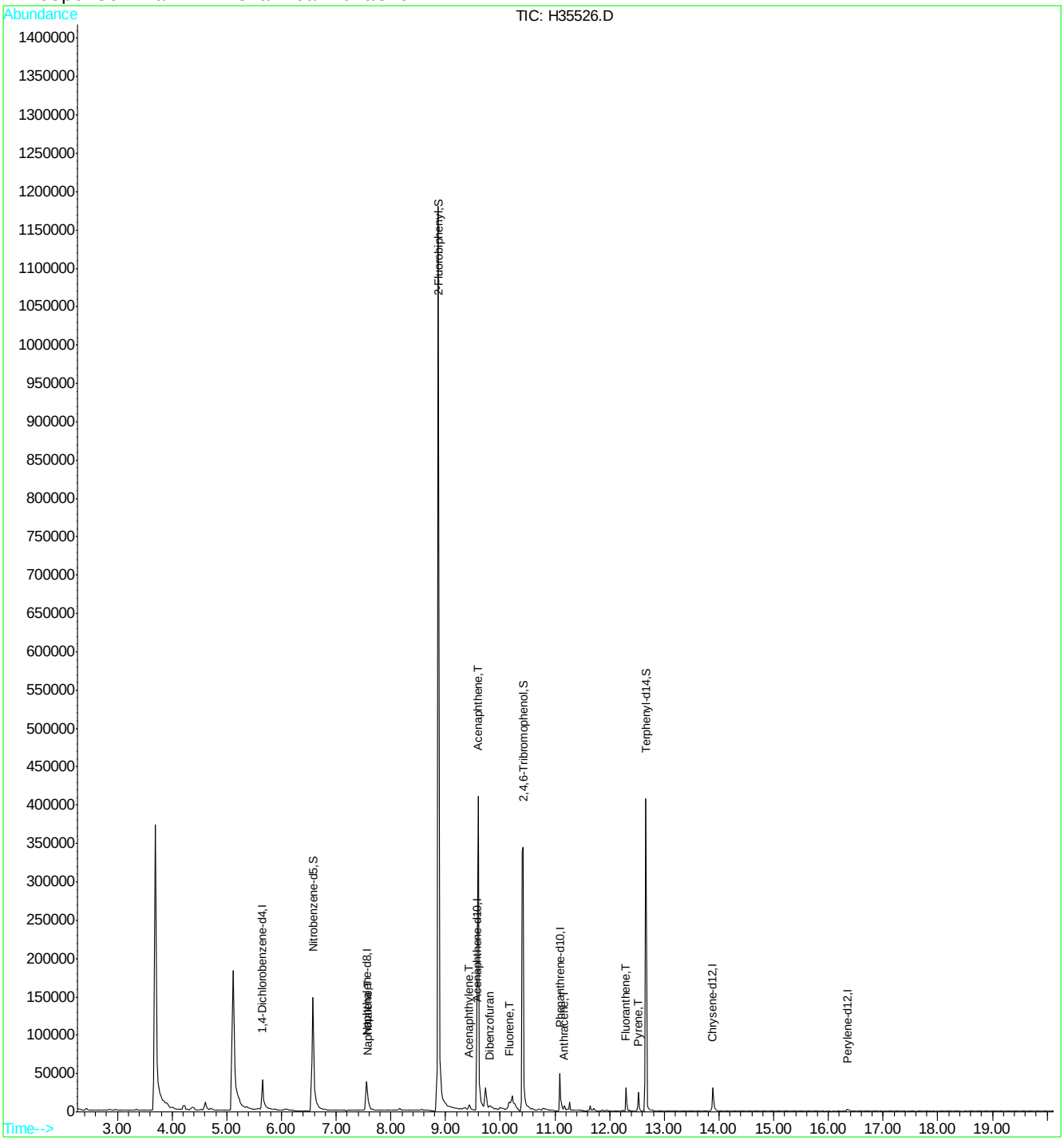
Target Compounds						Qvalue
6) Naphthalene	7.59	128	8753	0.43 ppb		92
11) Acenaphthylene	9.43	152	10716	0.39 ppb	#	73
12) Acenaphthene	9.60	153	278179	9.92 ppb		82
13) Dibenzofuran	9.81	168	10977	0.48 ppb	#	45
14) Fluorene	10.16	166	9083	0.71 ppb		92
19) Anthracene	11.17	178	8065m	0.22 ppb		
20) Fluoranthene	12.29	202	39253	1.25 ppb		97
22) Pyrene	12.53	202	31498	0.82 ppb	#	82

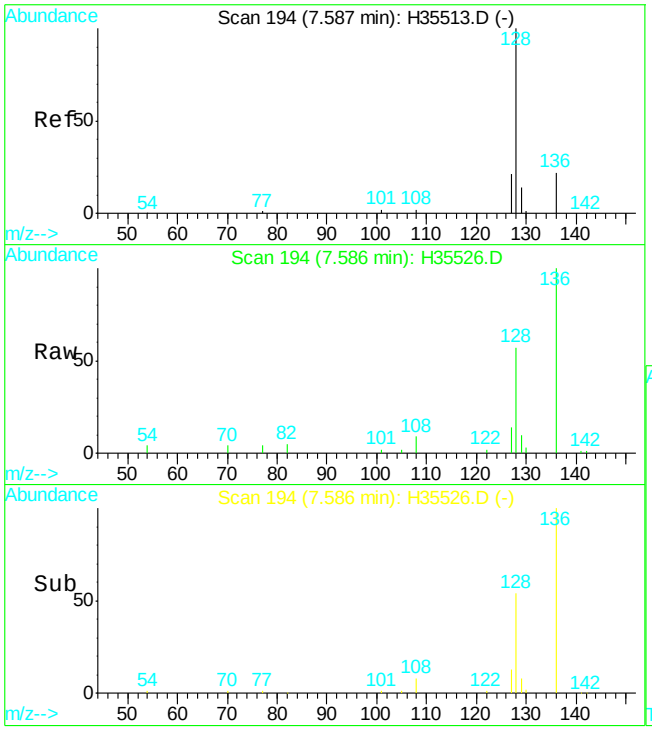
(#) = qualifier out of range (m) = manual integration
H35526.D H10219SP.M Thu Oct 22 12:31:59 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35526.D Vial: 15
Acq On : 21 Oct 2009 5:20 pm Operator: sheilac
Sample : t39314-4 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:31 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Initial Calibration

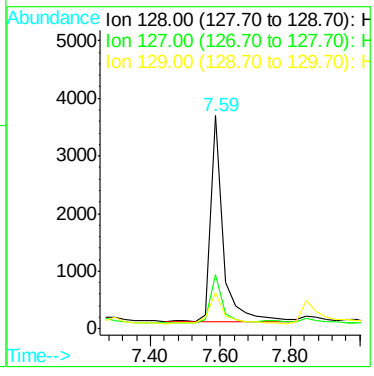


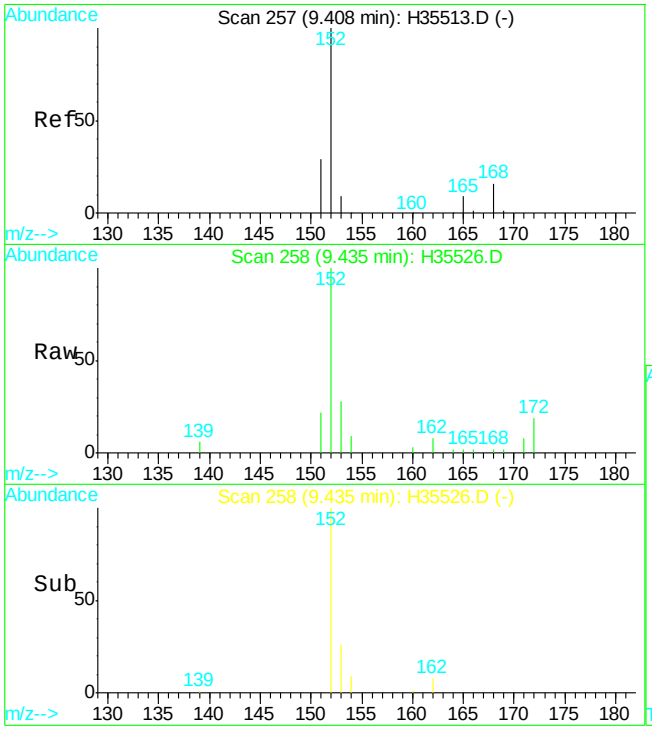


#6
Naphthalene
Concen: 0.43 ppb
RT: 7.59 min Scan# 194
Delta R.T. 0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:128 Resp: 8753

Ion	Ratio	Lower	Upper
128	100		
127	23.2	12.6	23.4
129	14.8	9.6	17.8

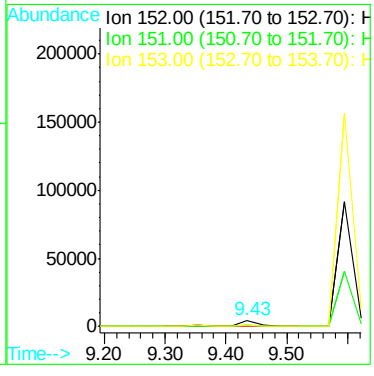


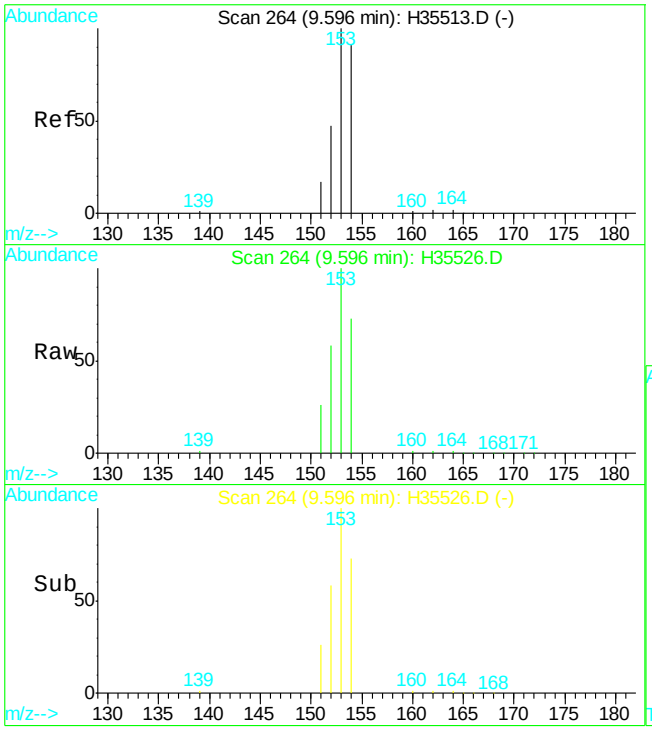


#11
Acenaphthylene
Concen: 0.39 ppb
RT: 9.43 min Scan# 258
Delta R.T. 0.03 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:152 Resp: 10716

Ion	Ratio	Lower	Upper
152	100		
151	18.3	20.6	38.4#
153	26.4	6.5	12.1#

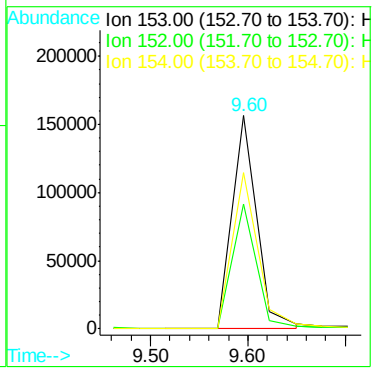


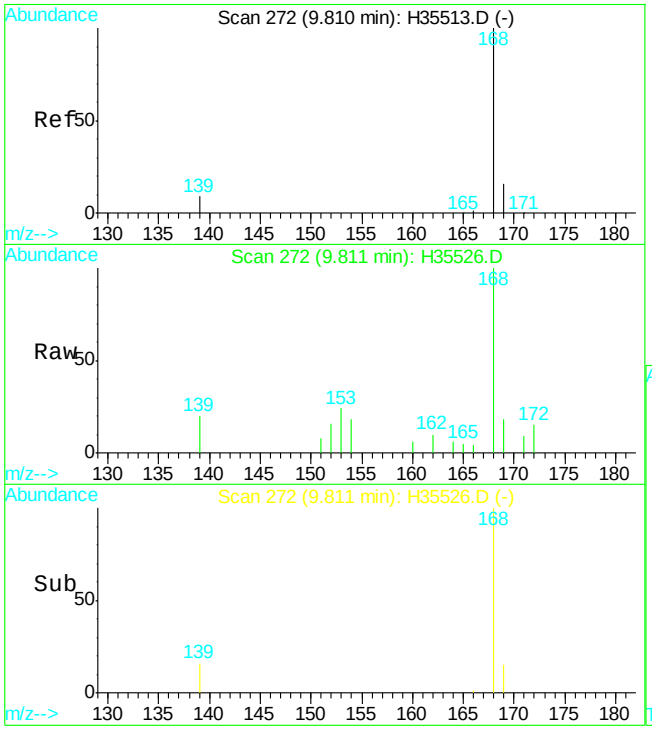


#12
Acenaphthene
Concen: 9.92 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:153 Resp: 278179

Ion	Ratio	Lower	Upper
153	100		
152	58.3	33.0	61.4
154	73.0	63.6	118.2

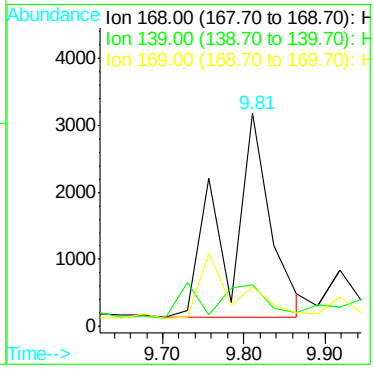


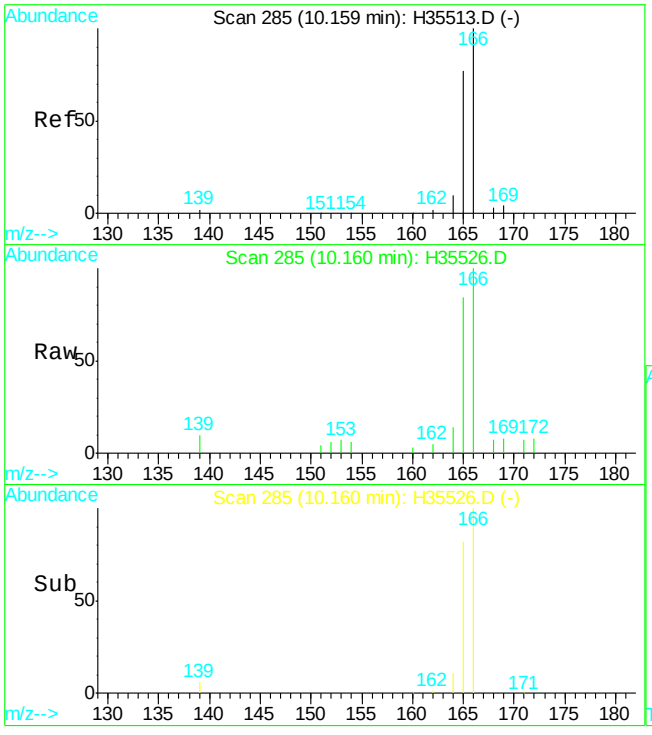


#13
Dibenzofuran
Concen: 0.48 ppb
RT: 9.81 min Scan# 272
Delta R.T. 0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:168 Resp: 10977

Ion	Ratio	Lower	Upper
168	100		
139	15.2	42.2	78.4#
169	0.0	10.5	19.5#

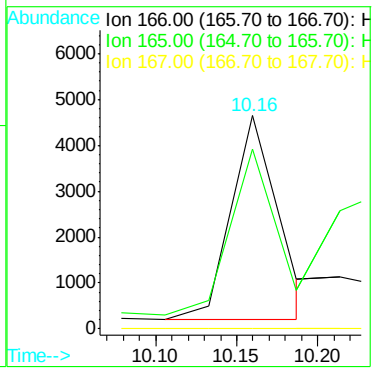


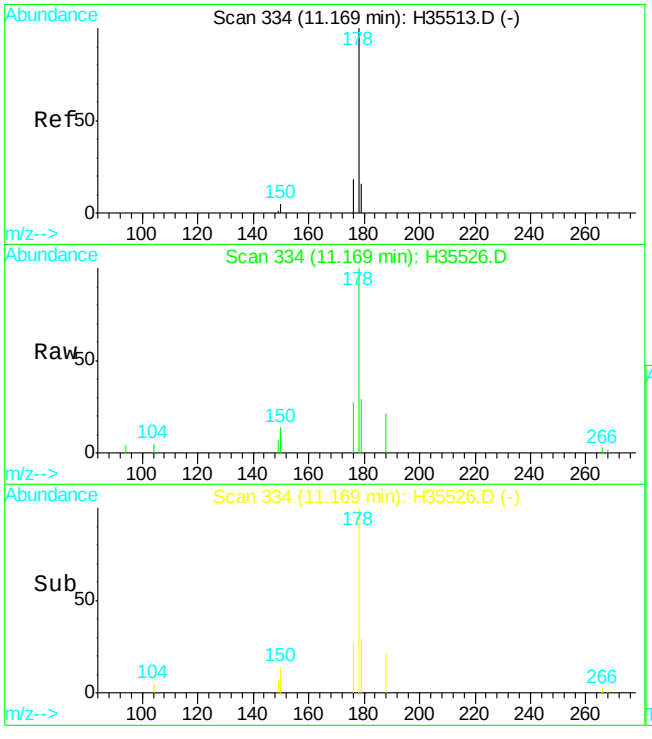


#14
Fluorene
Concen: 0.71 ppb
RT: 10.16 min Scan# 285
Delta R.T. 0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:166 Resp: 9083

Ion	Ratio	Lower	Upper
166	100		
165	83.6	53.6	99.6
167	0.0	0.0	0.0

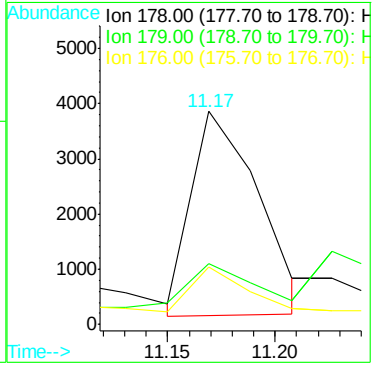


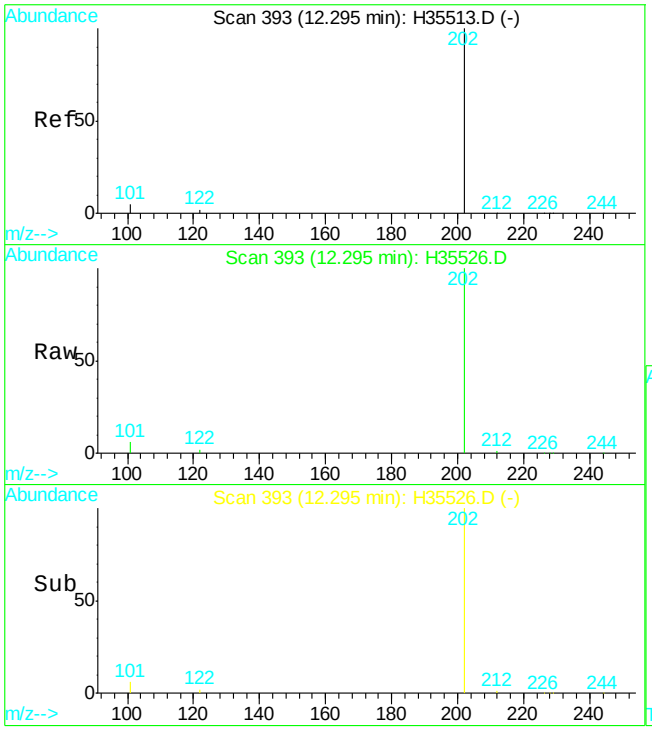


#19
Anthracene
Concen: 0.22 ppb m
RT: 11.17 min Scan# 334
Delta R.T. 0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:178 Resp: 8065

Ion	Ratio	Lower	Upper
178	100		
179	28.6	11.2	20.8#
176	27.2	12.5	23.3#

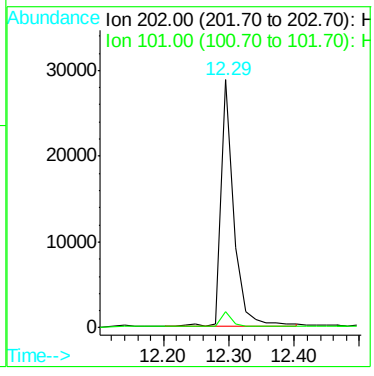


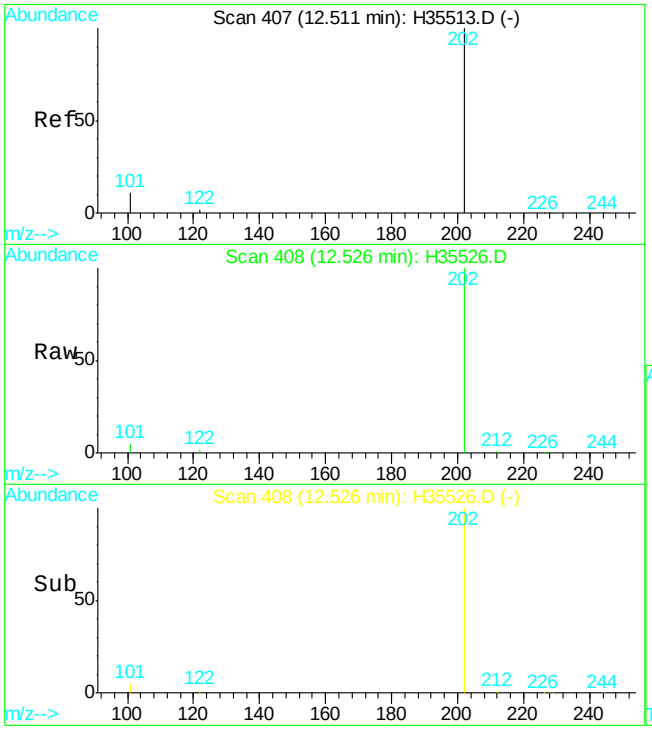


#20
Fluoranthene
Concen: 1.25 ppb
RT: 12.29 min Scan# 393
Delta R.T. -0.00 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:202 Resp: 39253

Ion	Ratio	Lower	Upper
202	100		
101	6.1	3.6	6.6

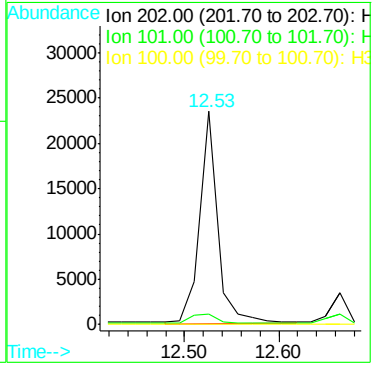




#22
Pyrene
Concen: 0.82 ppb
RT: 12.53 min Scan# 408
Delta R.T. 0.02 min
Lab File: H35526.D
Acq: 21 Oct 2009 5:20 pm

Tgt Ion:202 Resp: 31498

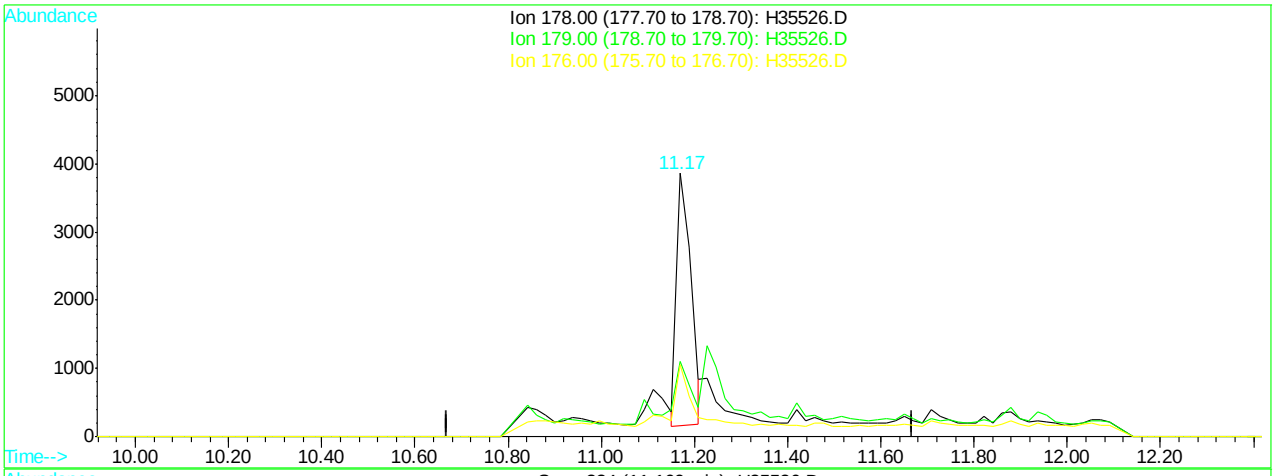
Ion	Ratio	Lower	Upper
202	100		
101	4.6	8.2	15.2#
100	0.0	0.0	0.0

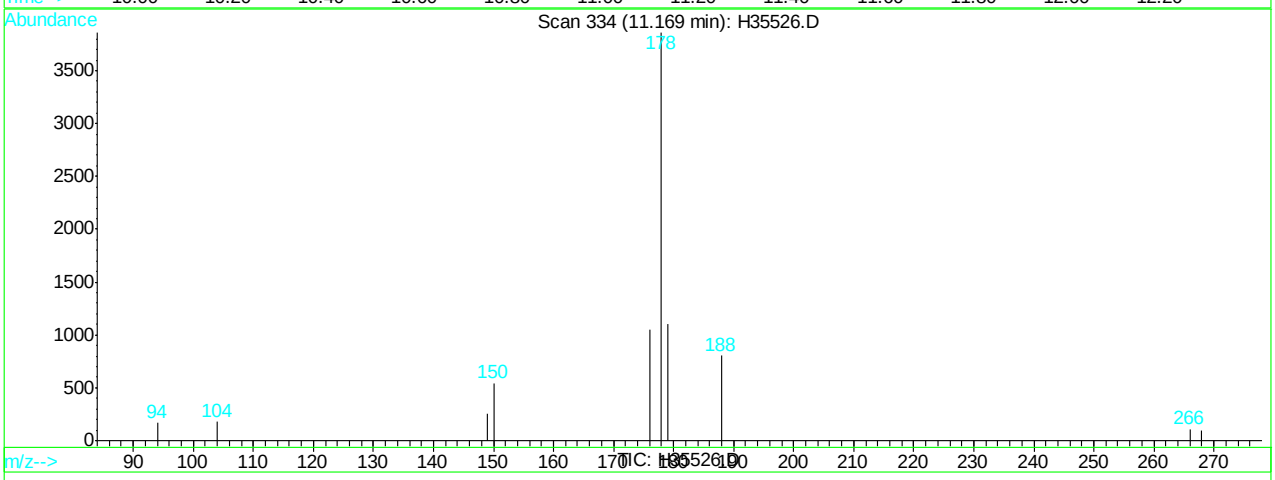


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35526.D Vial: 15
Acq On : 21 Oct 2009 5:20 pm Operator: sheilac
Sample : t39314-4 Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.22ppb m

response 8065

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	28.65#
176.00	17.90	27.20#
0.00	0.00	0.00

H35526.D H10219SP.M Thu Oct 22 12:32:10 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 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	83538	4.00	ppb	0.00
4) Naphthalene-d8	7.78	136	628383	4.00	ppb	0.17
9) Acenaphthene-d10	9.60	164	29743	4.00	ppb	0.03
15) Phenanthrene-d10	11.09	188	66271	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	7246	4.00	ppb	0.00
26) Perylene-d12	16.38	264	3708	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.60	82	246914	11.91	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 238.20%#			
10) 2-Fluorobiphenyl	8.90	172	934571	45.90	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery = 918.00%#			
16) 2,4,6-Tribromophenol	10.42	330	355323	185.92	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1859.20%#			
23) Terphenyl-d14	12.66	244	155278	55.71	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1114.20%#			

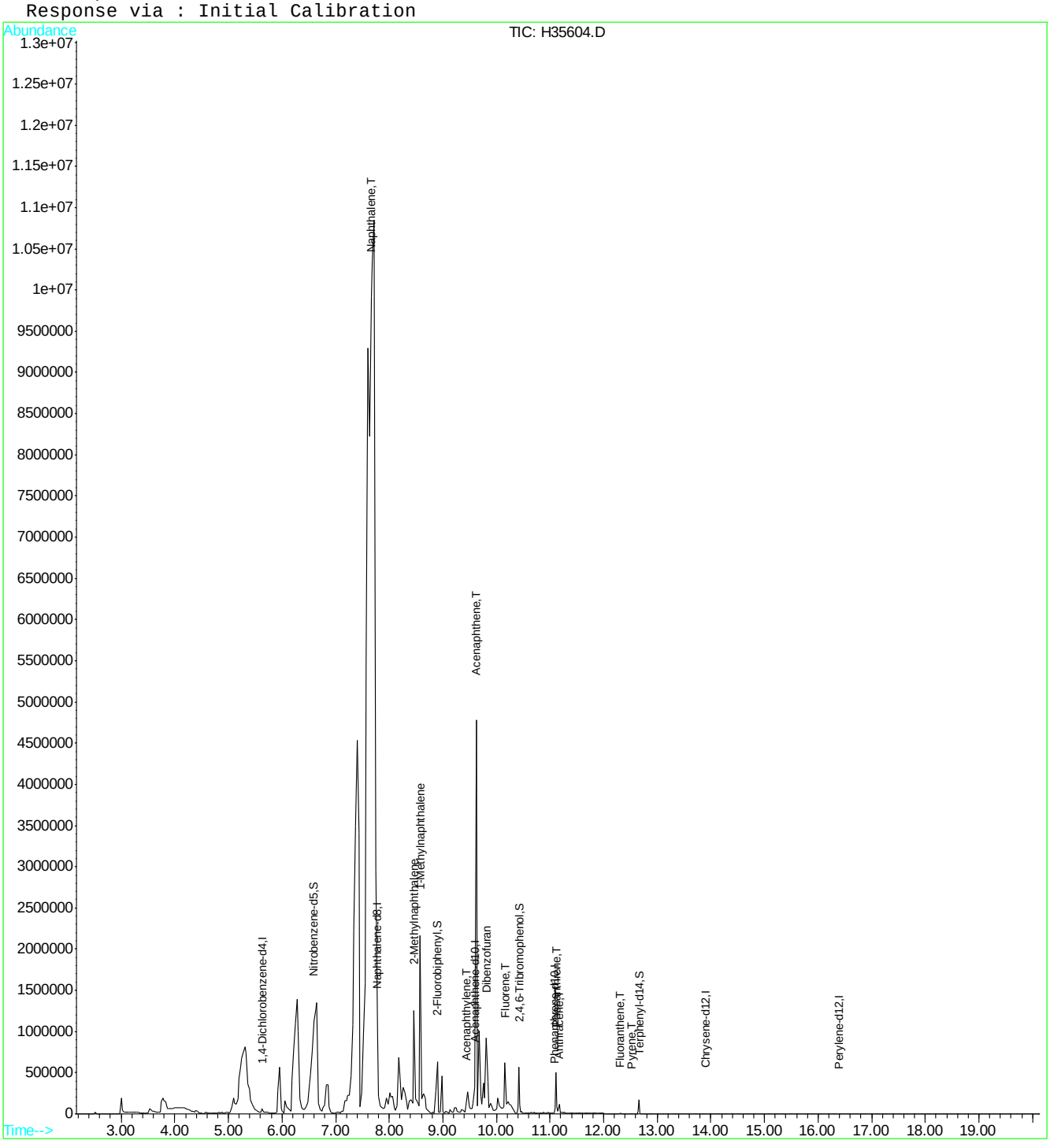
Target Compounds							Qvalue
6) Naphthalene	7.66	128	46173522	219.54	ppb		91
7) 2-Methylnaphthalene	8.47	142	1072980m	5.59	ppb		
8) 1-Methylnaphthalene	8.58	142	2092459	8.95	ppb	#	93
11) Acenaphthylene	9.43	152	36543	1.91	ppb	#	59
12) Acenaphthene	9.62	153	3180082m	191.63	ppb		
13) Dibenzofuran	9.81	168	1357712	88.06	ppb	#	53
14) Fluorene	10.16	166	526930	66.96	ppb		93
18) Phenanthrene	11.11	178	447976m	15.48	ppb		
19) Anthracene	11.17	178	48914m	1.46	ppb		
20) Fluoranthene	12.31	202	5547	0.50	ppb	#	87
22) Pyrene	12.53	202	2218m	0.19	ppb		

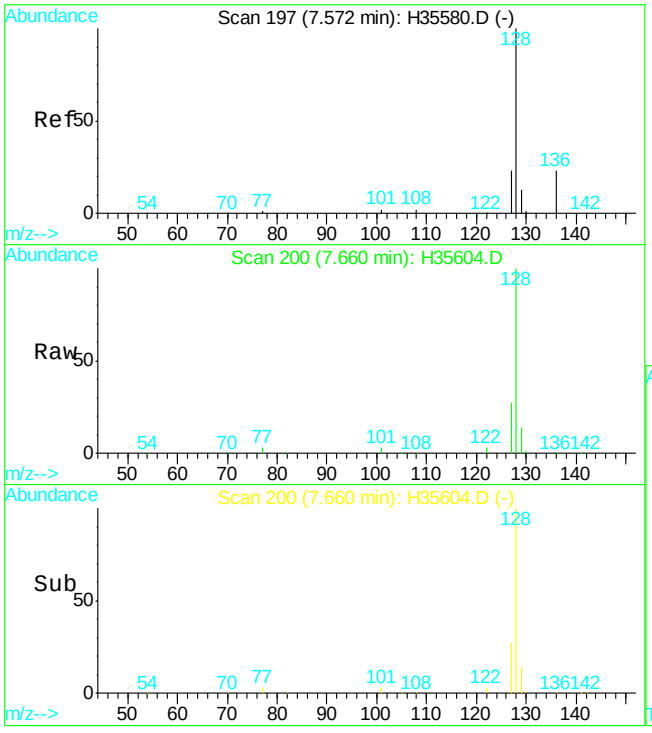
(#) = qualifier out of range (m) = manual integration
H35604.D H10239SP.M Mon Oct 26 15:25:57 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

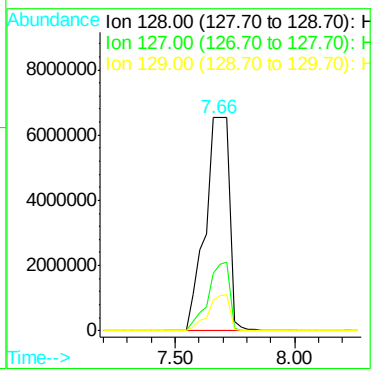


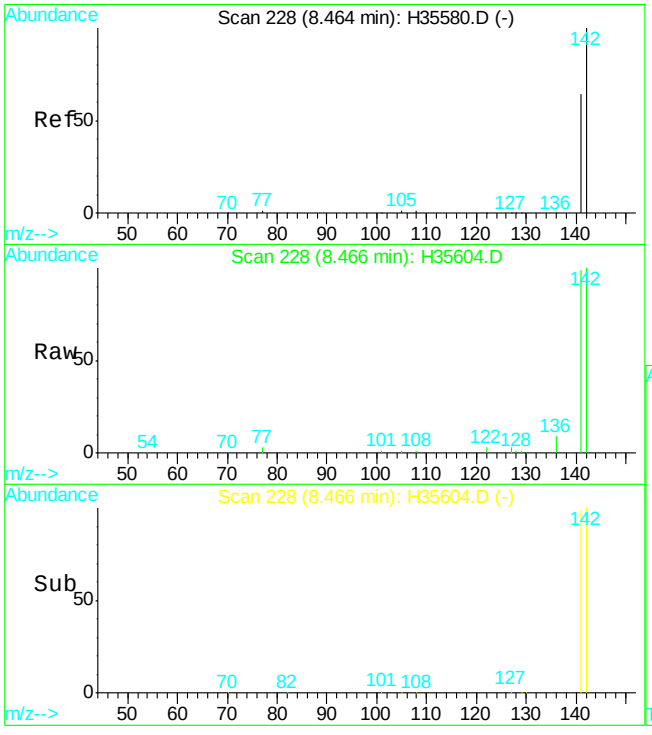


#6
Naphthalene
Concen: 219.54 ppb
RT: 7.66 min Scan# 200
Delta R.T. 0.03 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:128 Resp:46173522

Ion	Ratio	Lower	Upper
128	100		
127	26.9	15.3	28.5
129	14.2	8.5	15.9

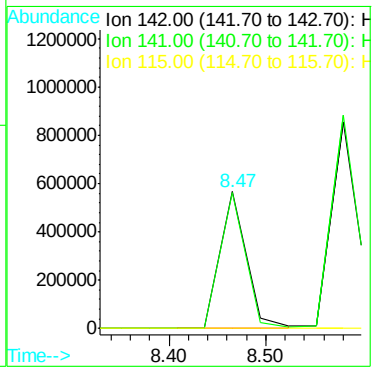


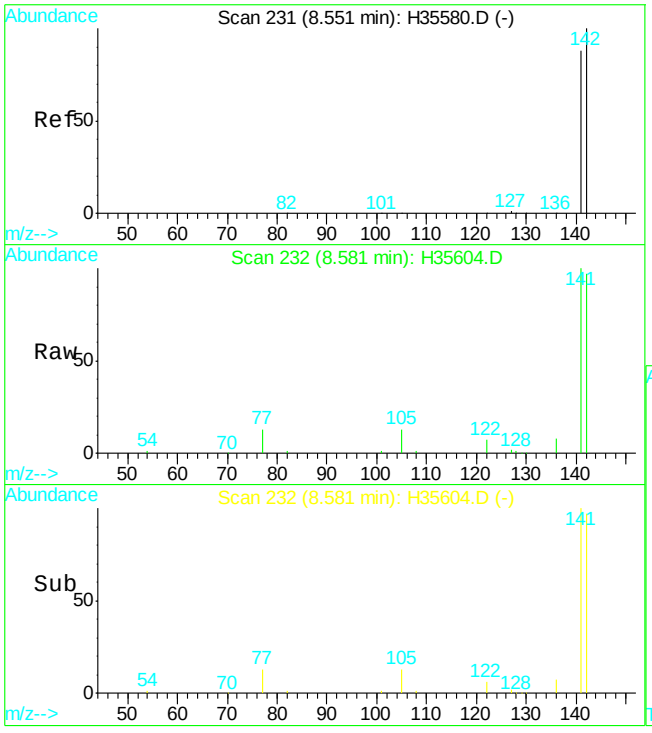


#7
2-Methylnaphthalene
Concen: 5.59 ppb m
RT: 8.47 min Scan# 228
Delta R.T. -0.06 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:142 Resp: 1072980

Ion	Ratio	Lower	Upper
142	100		
141	180.4	104.0	193.1
115	0.0	0.0	0.0

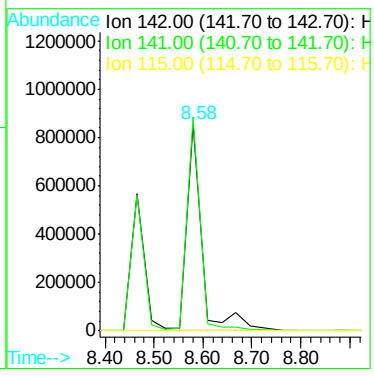


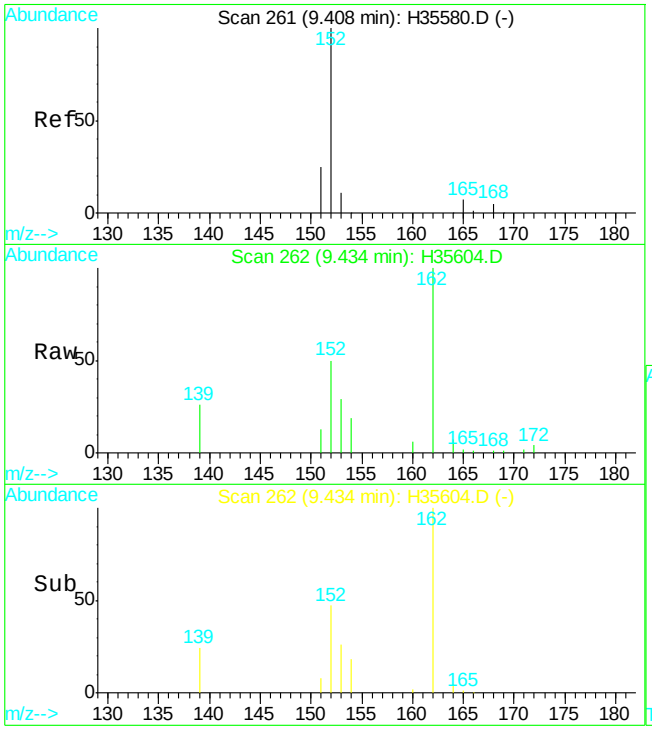


#8
1-Methylnaphthalene
Concen: 8.95 ppb
RT: 8.58 min Scan# 232
Delta R.T. -0.04 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:142 Resp: 2092459

Ion	Ratio	Lower	Upper
142	100		
141	92.5	60.5	112.5
115	0.0	0.0	0.0

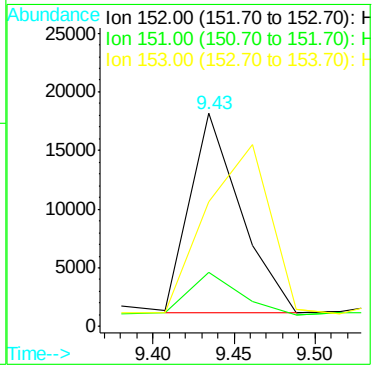


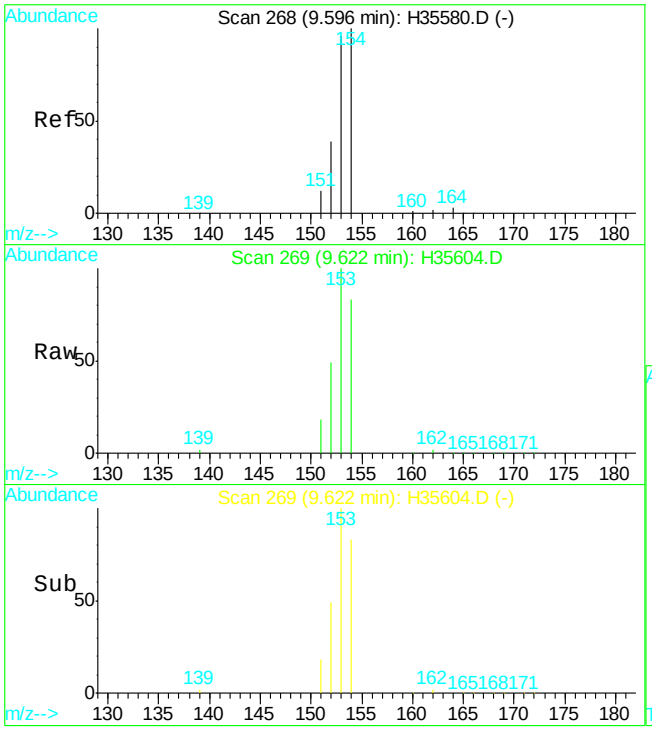


#11
Acenaphthylene
Concen: 1.91 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:152 Resp: 36543

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.8	33.0
153	54.9	7.4	13.8#

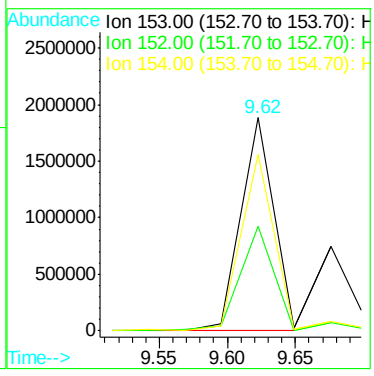


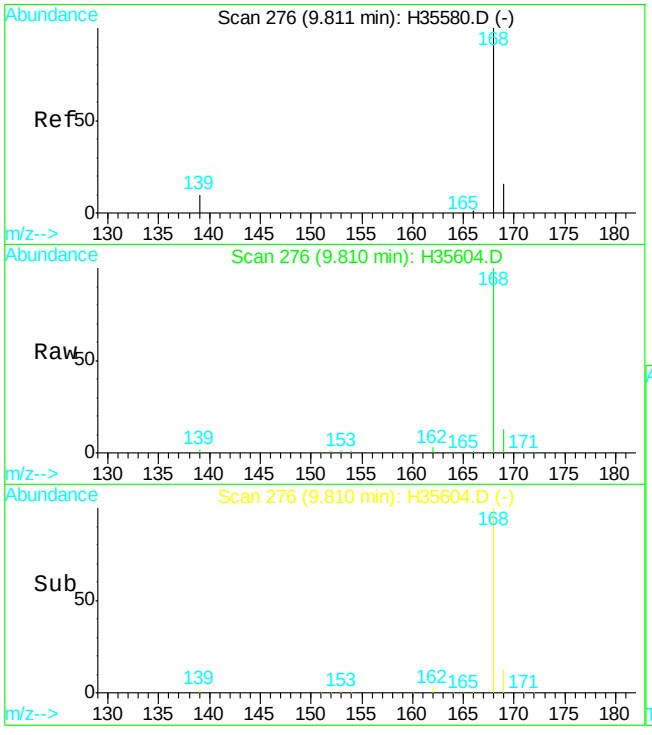


#12
Acenaphthene
Concen: 191.63 ppb m
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:153 Resp: 3180082

Ion	Ratio	Lower	Upper
153	100		
152	48.8	28.7	53.3
154	82.7	72.9	135.5

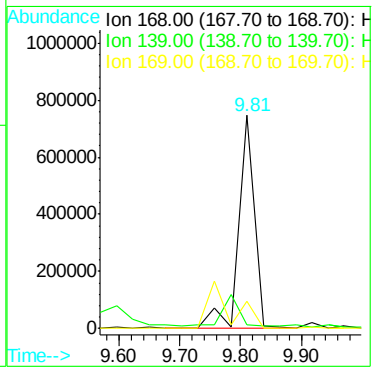


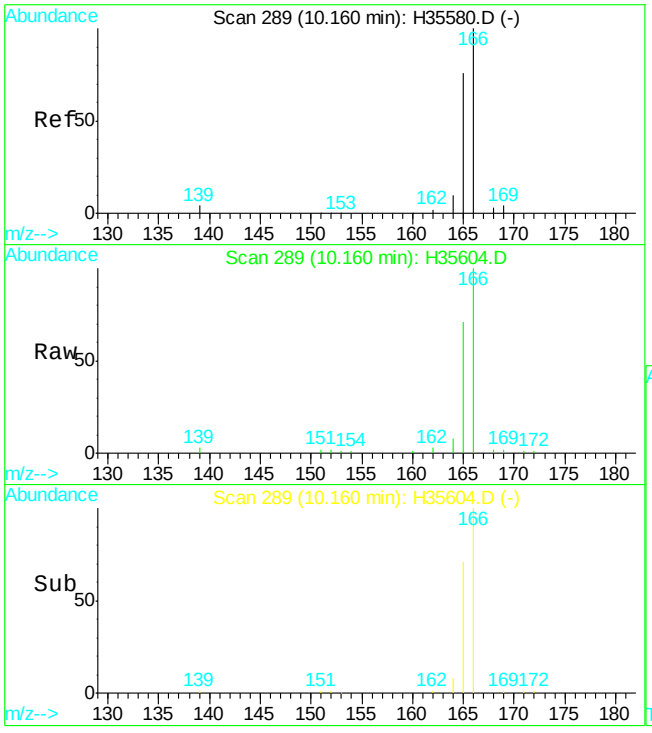


#13
Dibenzofuran
Concen: 88.06 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:168 Resp: 1357712

Ion	Ratio	Lower	Upper
168	100		
139	16.2	33.7	62.5#
169	33.3	9.8	18.2#

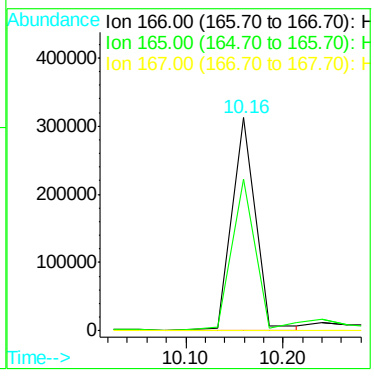


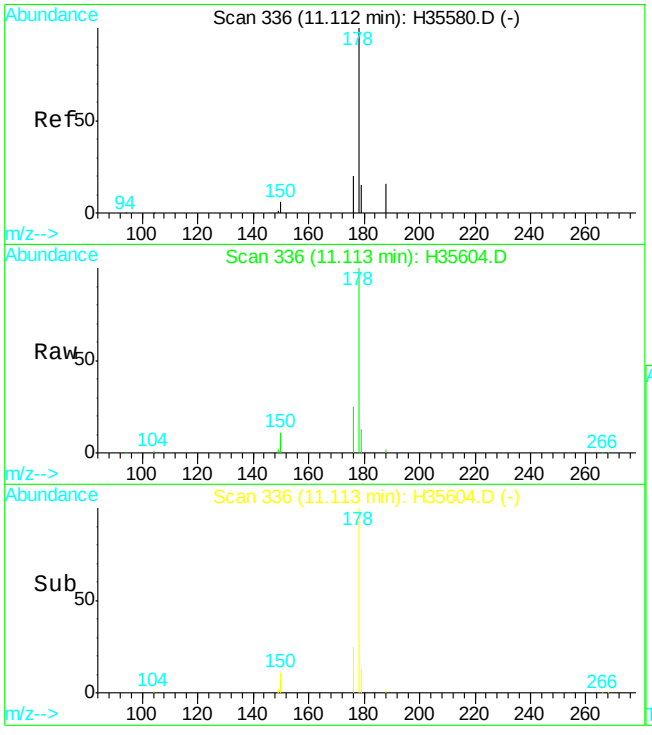


#14
Fluorene
Concen: 66.96 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:166 Resp: 526930

Ion	Ratio	Lower	Upper
166	100		
165	70.0	53.1	98.7
167	0.0	0.0	0.0

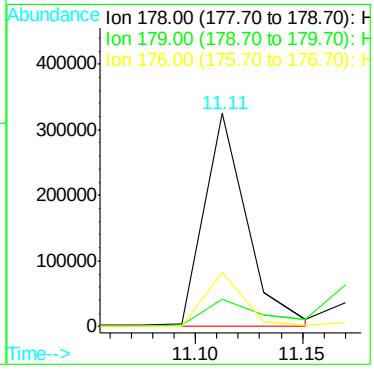


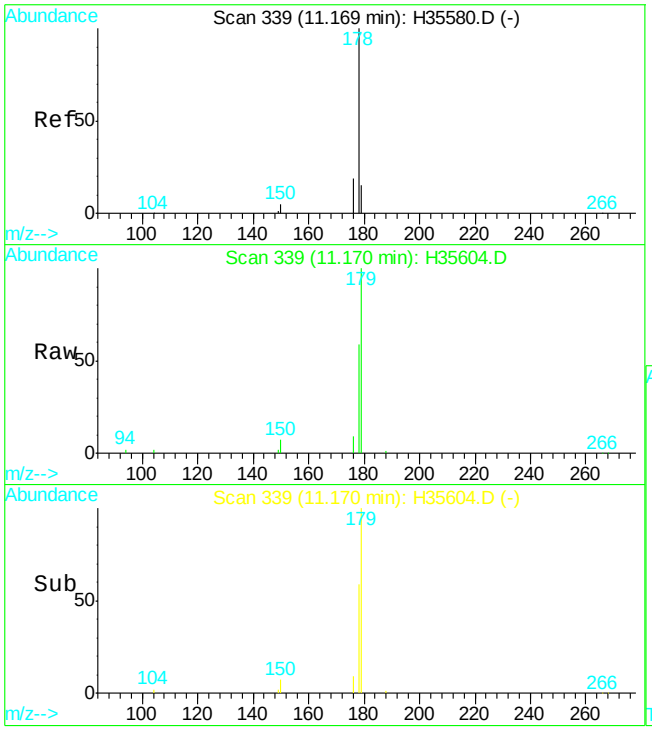


#18
Phenanthrene
Concen: 15.48 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:178 Resp: 447976

Ion	Ratio	Lower	Upper
178	100		
179	12.5	10.6	19.6
176	25.3	13.7	25.5

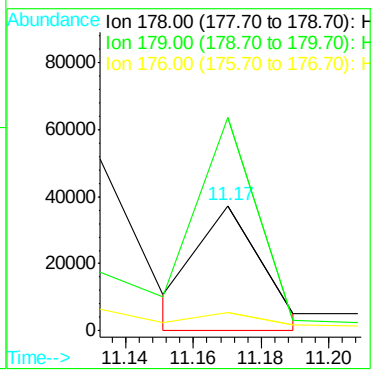


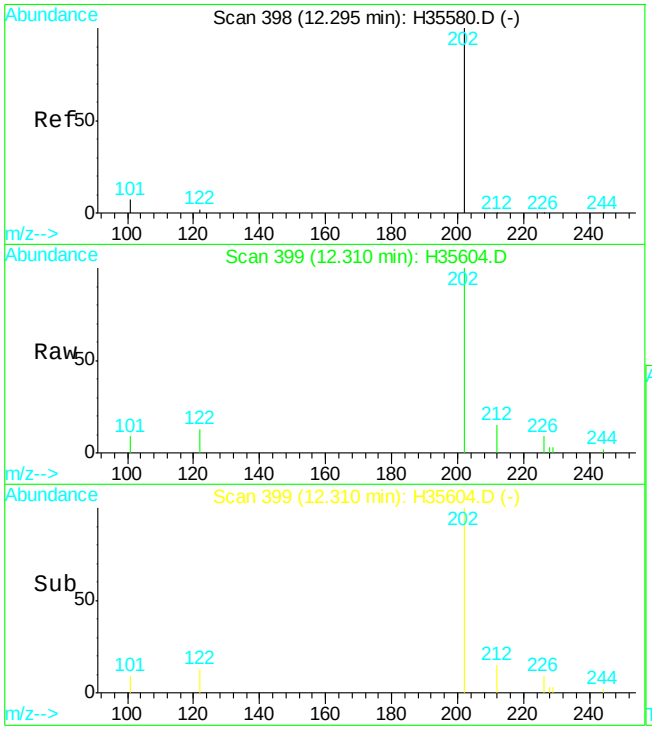


#19
Anthracene
Concen: 1.46 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:178 Resp: 48914

Ion	Ratio	Lower	Upper
178	100		
179	170.5	10.6	19.6#
176	14.9	13.3	24.7

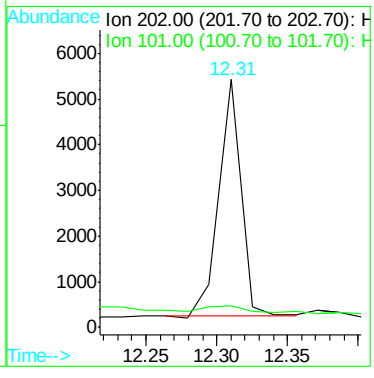


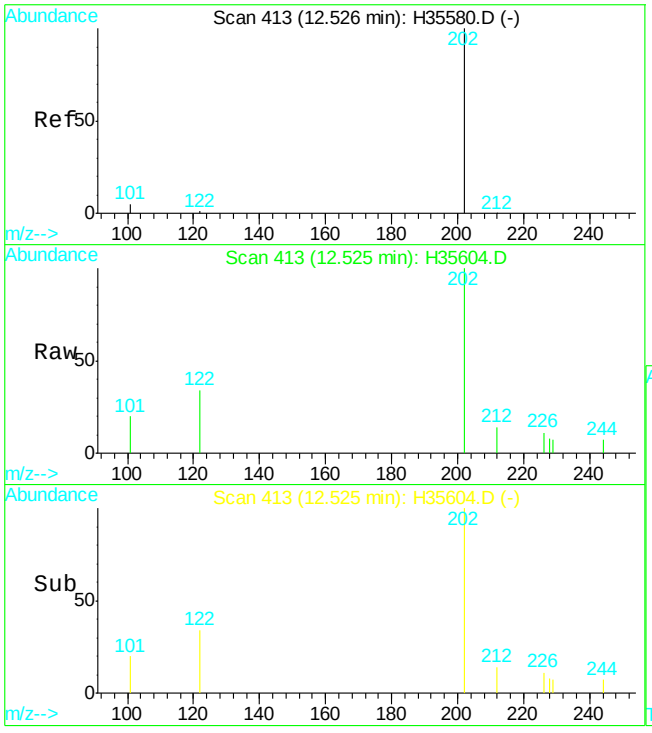


#20
Fluoranthene
Concen: 0.50 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:202 Resp: 5547

Ion	Ratio	Lower	Upper
202	100		
101	2.0	4.6	8.6#

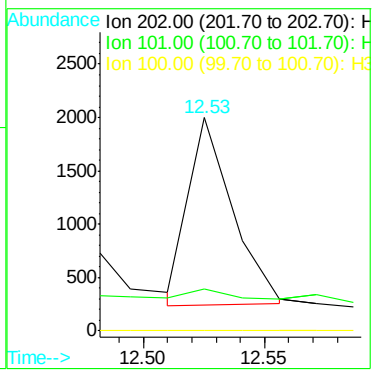




#22
Pyrene
Concen: 0.19 ppb m
RT: 12.53 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35604.D
Acq: 23 Oct 2009 10:40 pm

Tgt Ion:202 Resp: 2218

Ion	Ratio	Lower	Upper
202	100		
101	19.6	3.5	6.5#
100	0.0	0.0	0.0



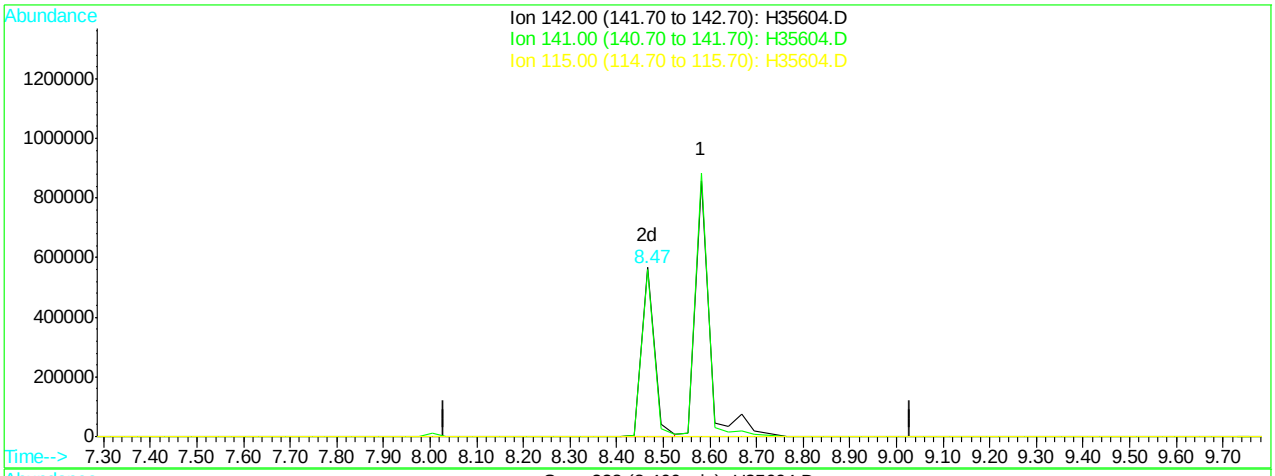
8.1.20

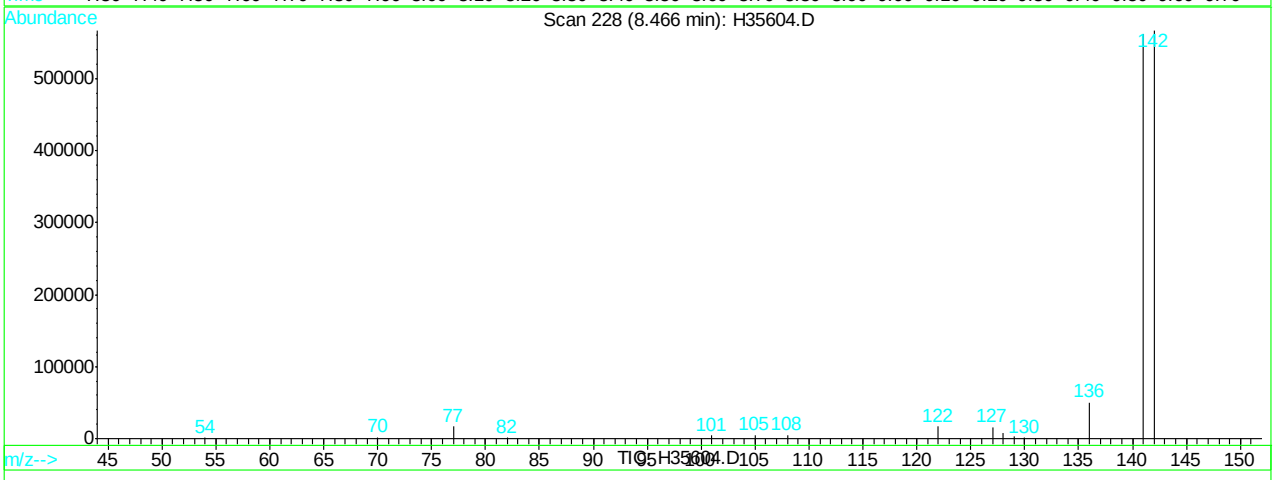
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 5.59ppb m

response 1072980

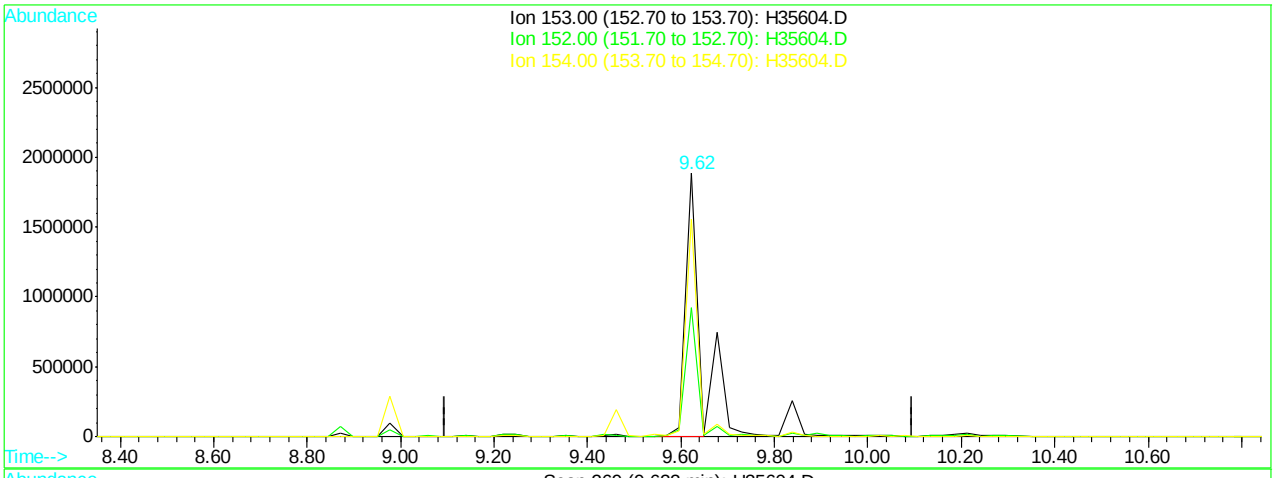
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	180.37
115.00	0.00	0.00
0.00	0.00	0.00

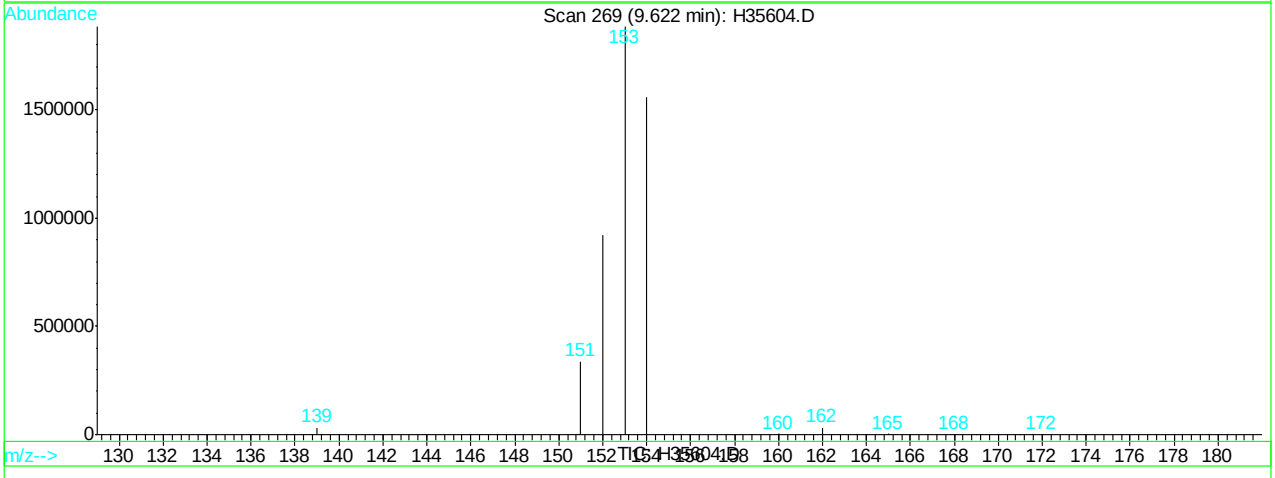
H35604.D H10239SP.M Mon Oct 26 15:26:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(12) Acenaphthene (T)

9.62min 191.63ppb m

response 3180082

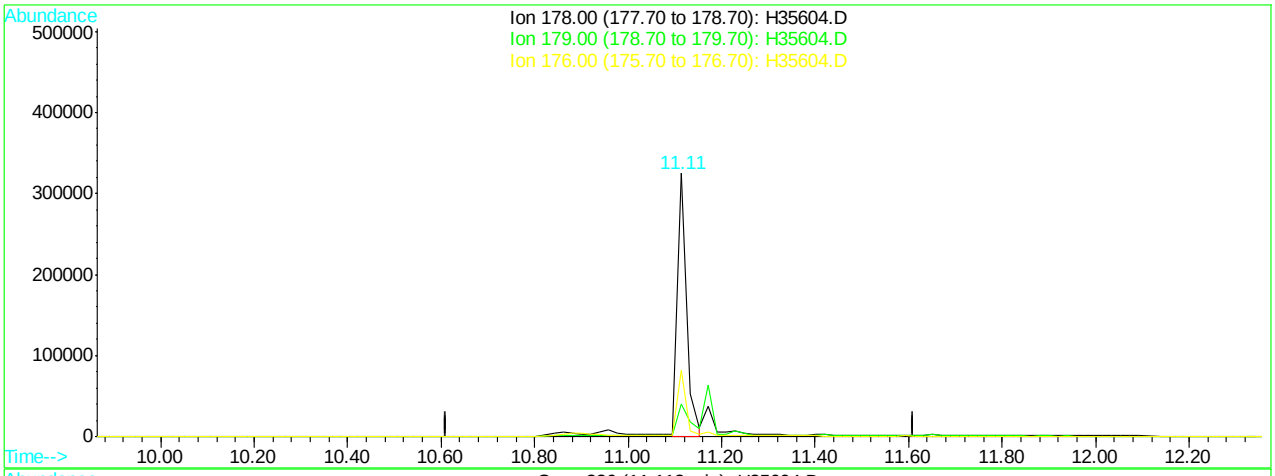
Ion	Exp%	Act%
153.00	100	100
152.00	41.00	48.84
154.00	104.20	82.73
0.00	0.00	0.00

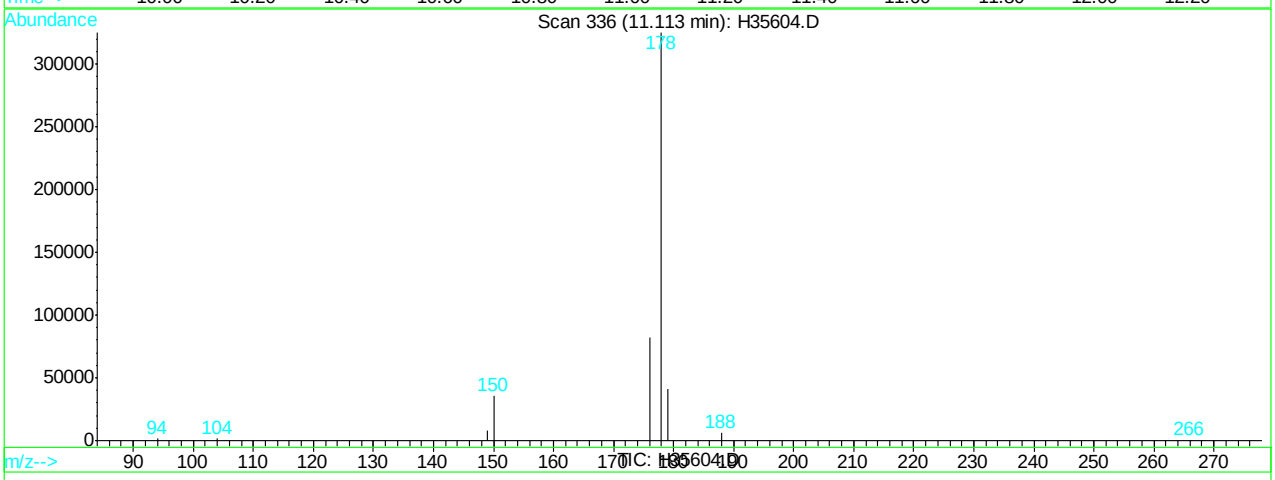
H35604.D H10239SP.M Mon Oct 26 15:26:30 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 15.48ppb m

response 447976

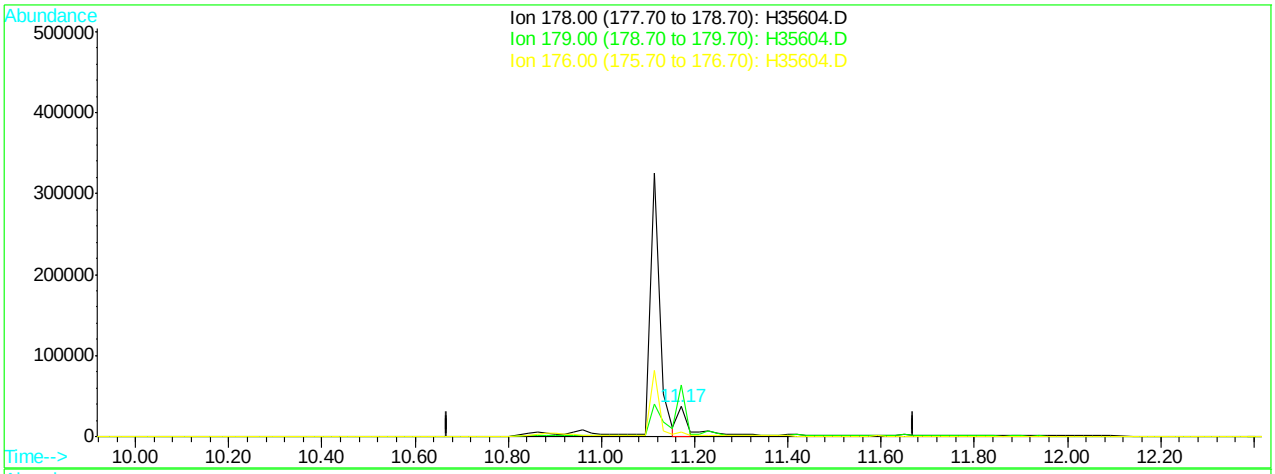
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	12.54
176.00	19.60	25.33
0.00	0.00	0.00

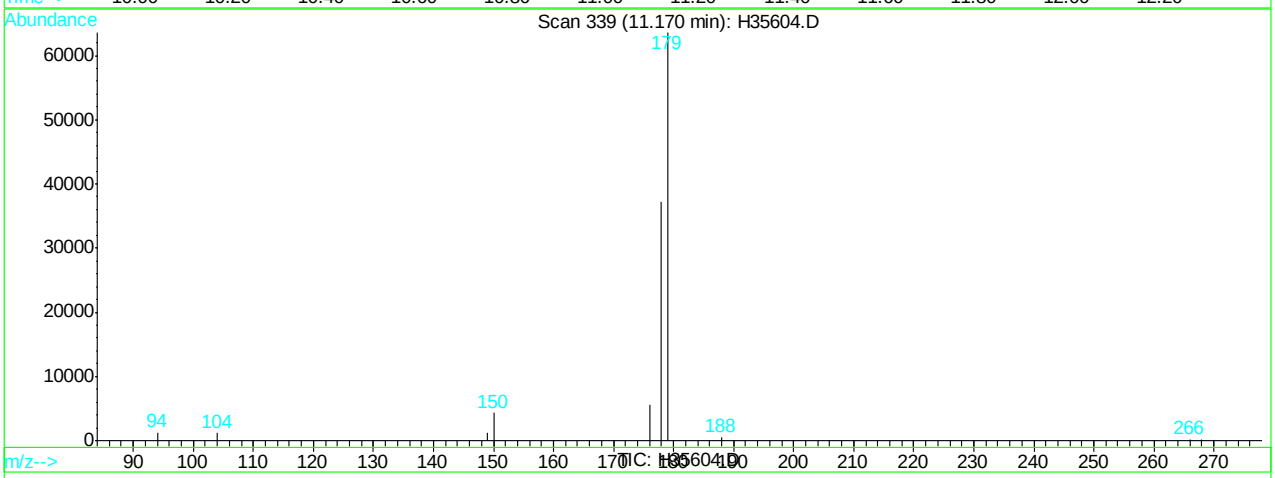
H35604.D H10239SP.M Mon Oct 26 15:26:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 1.46ppb m

response 48914

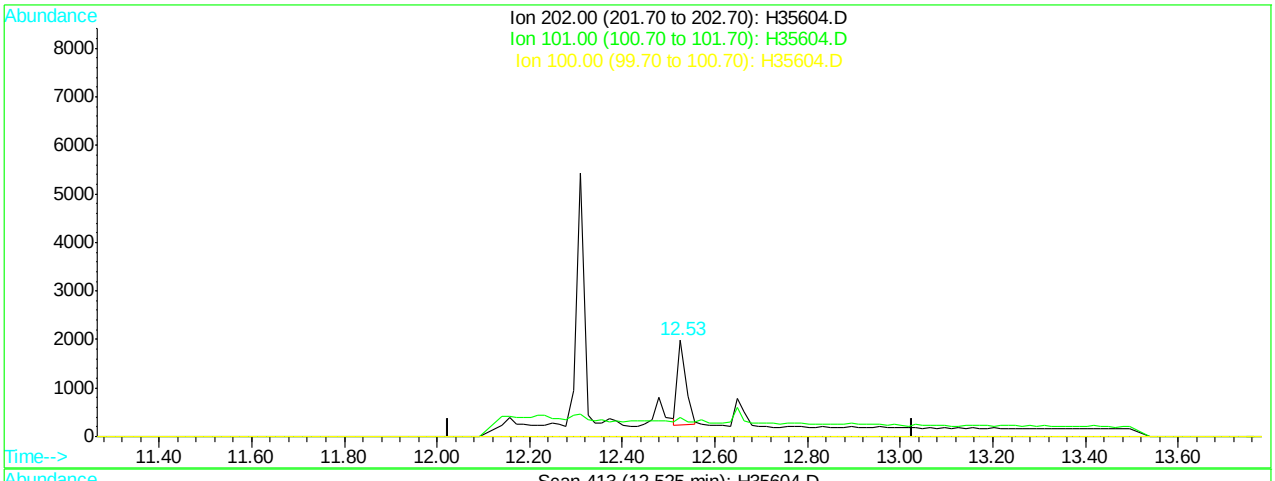
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	170.50#
176.00	19.00	14.87
0.00	0.00	0.00

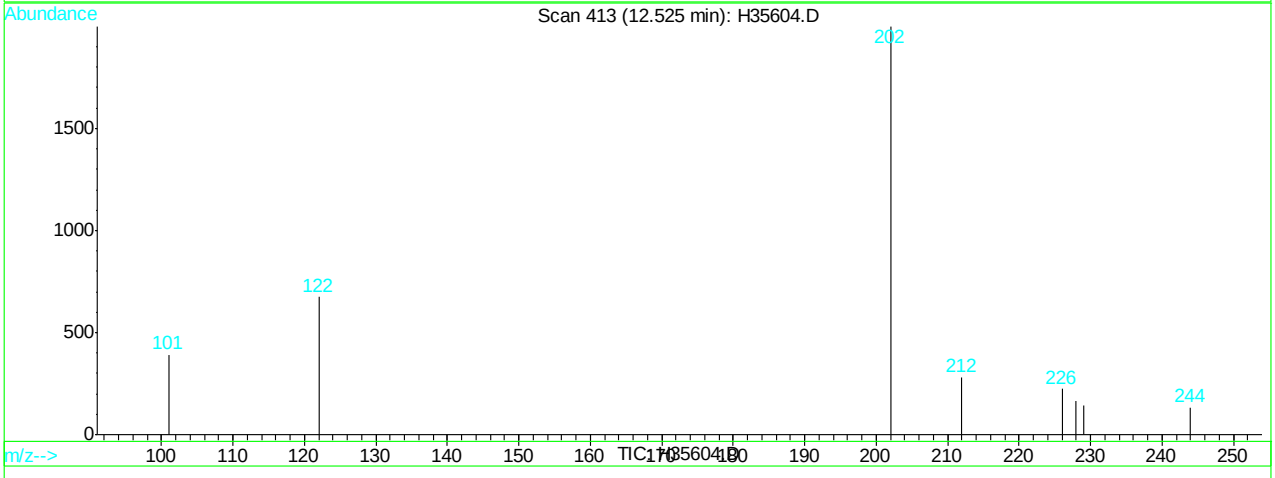
H35604.D H10239SP.M Mon Oct 26 15:26:37 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35604.D Vial: 26
Acq On : 23 Oct 2009 10:40 pm Operator: sheilac
Sample : t39314-5 Inst : TXMSH
Misc : OP13269,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 15:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.53min 0.19ppb m

response 2218

Ion	Exp%	Act%
202.00	100	100
101.00	5.00	19.61#
100.00	0.00	0.00
0.00	0.00	0.00

H35604.D H10239SP.M Mon Oct 26 15:26:40 2009

Manual Integrations APPROVED (compounds with "m" flag)
Peng-Shia Cheng (Sheila) 10/23/09 19:14

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35508.D Vial: 26
Acq On : 20 Oct 2009 10:03 pm Operator: sheilac
Sample : t39314-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:51 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:24:41 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	76276	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	60223	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	65125	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	72244	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	33157	4.00 ppb	0.02
26) Perylene-d12	16.35	264	4668	4.00 ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	217419	44.51 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 890.20%#	
10) 2-Fluorobiphenyl	8.87	172	2188779	55.67 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1113.40%#	
16) 2,4,6-Tribromophenol	10.40	330	370073	98.81 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 988.10%#	
23) Terphenyl-d14	12.66	244	436087	70.34 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1406.80%#	

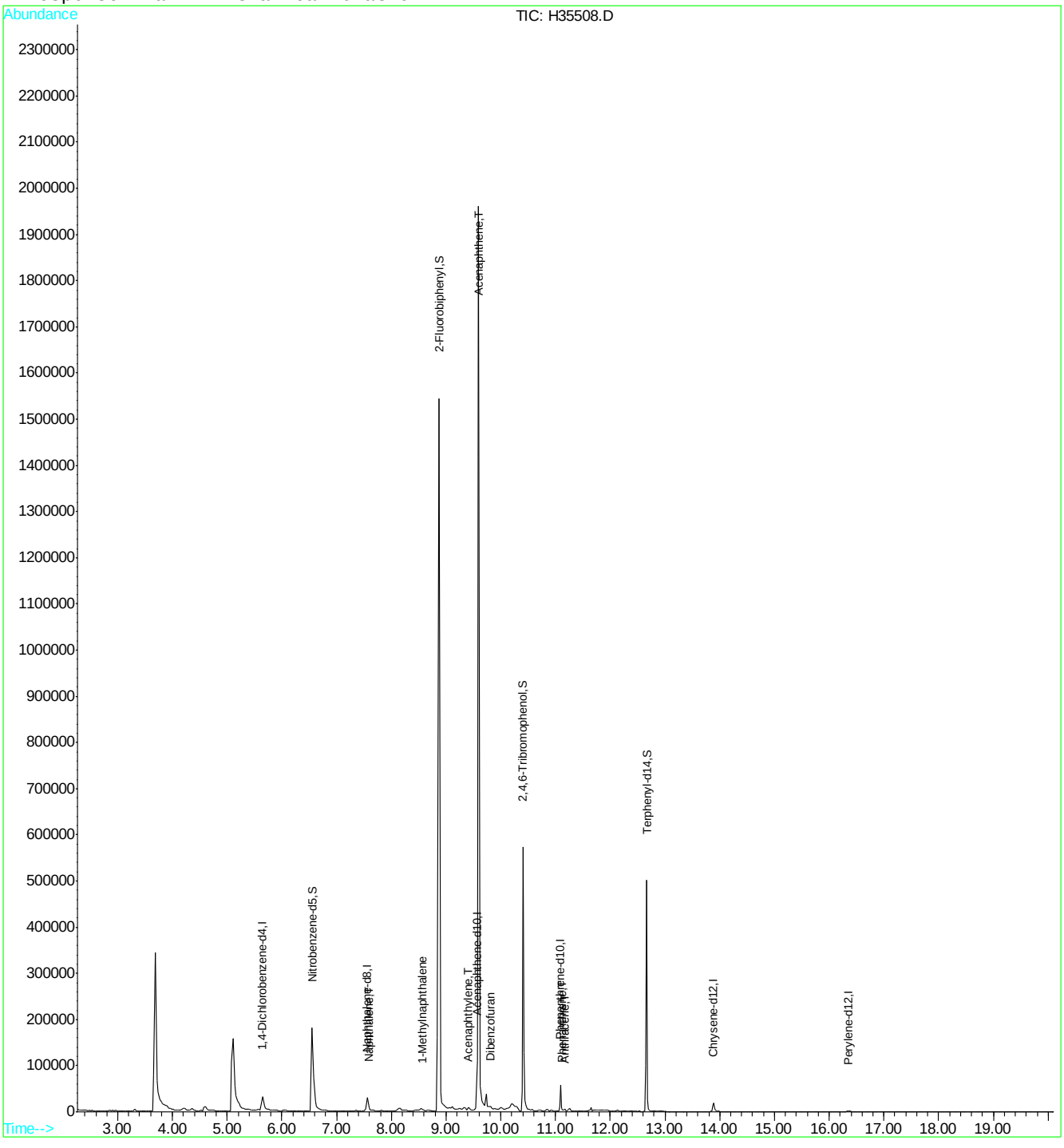
Target Compounds					Qvalue
6) Naphthalene	7.59	128	5539	0.23 ppb #	81
8) 1-Methylnaphthalene	8.56	142	4530	0.15 ppb #	97
11) Acenaphthylene	9.41	152	3526	0.07 ppb #	58
12) Acenaphthene	9.60	153	1265199	32.57 ppb #	72
13) Dibenzofuran	9.81	168	11034	0.34 ppb	96
18) Phenanthrene	11.11	178	1700m	0.04 ppb	
19) Anthracene	11.17	178	3133m	0.08 ppb	

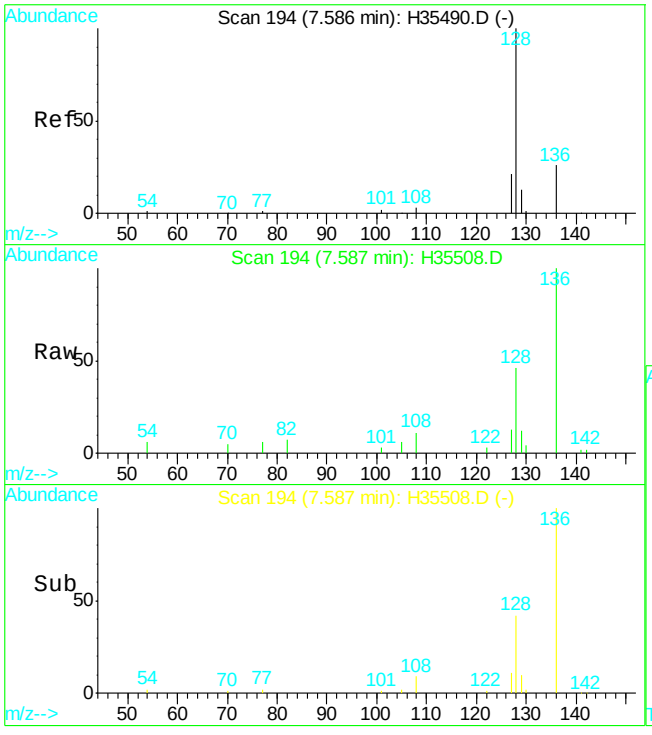
(#) = qualifier out of range (m) = manual integration
H35508.D H10209SP.M Wed Oct 21 12:52:01 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35508.D Vial: 26
Acq On : 20 Oct 2009 10:03 pm Operator: sheilac
Sample : t39314-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:51 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:24:41 2009
Response via : Initial Calibration

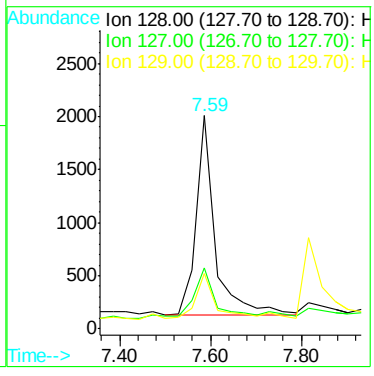


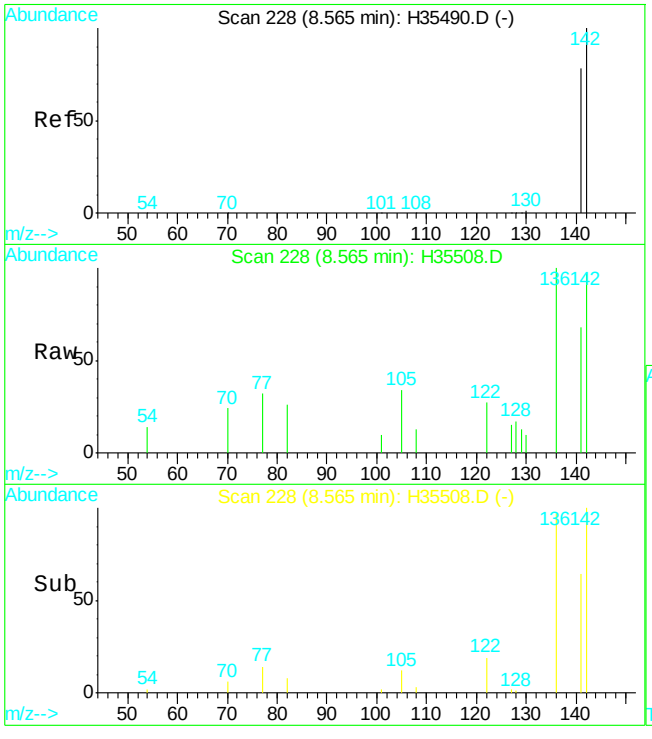


#6
Naphthalene
Concen: 0.23 ppb
RT: 7.59 min Scan# 194
Delta R.T. 0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:128 Resp: 5539

Ion	Ratio	Lower	Upper
128	100		
127	24.5	12.7	23.5#
129	22.4	8.9	16.5#

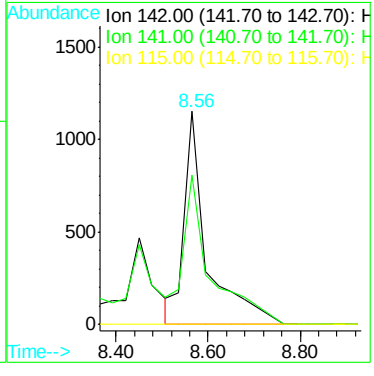


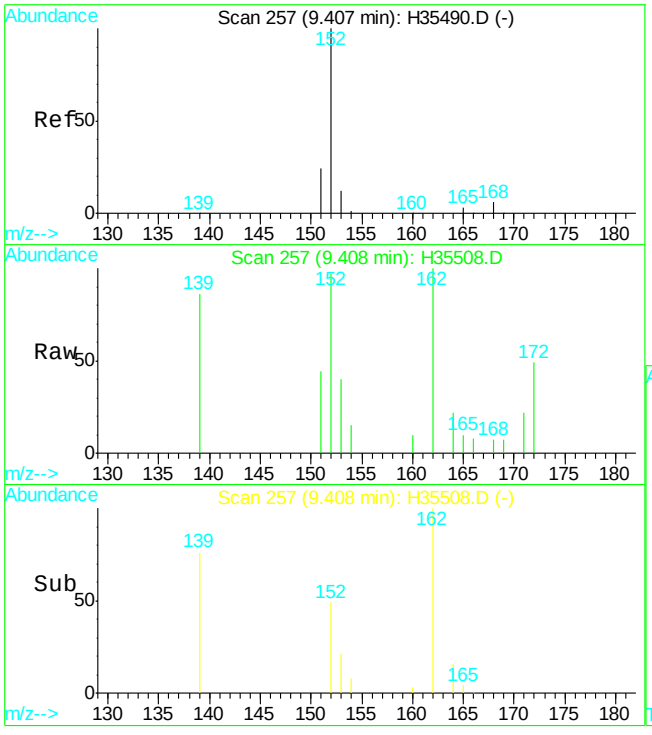


#8
1-Methylnaphthalene
Concen: 0.15 ppb
RT: 8.56 min Scan# 228
Delta R.T. 0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:142 Resp: 4530

Ion	Ratio	Lower	Upper
142	100		
141	83.8	56.8	105.6
115	0.0	0.0	0.0

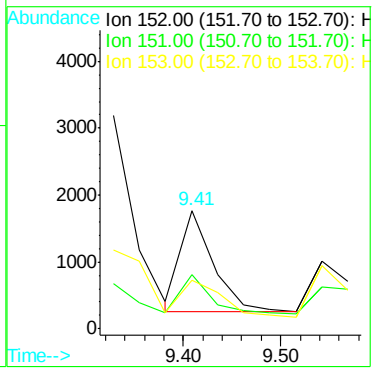


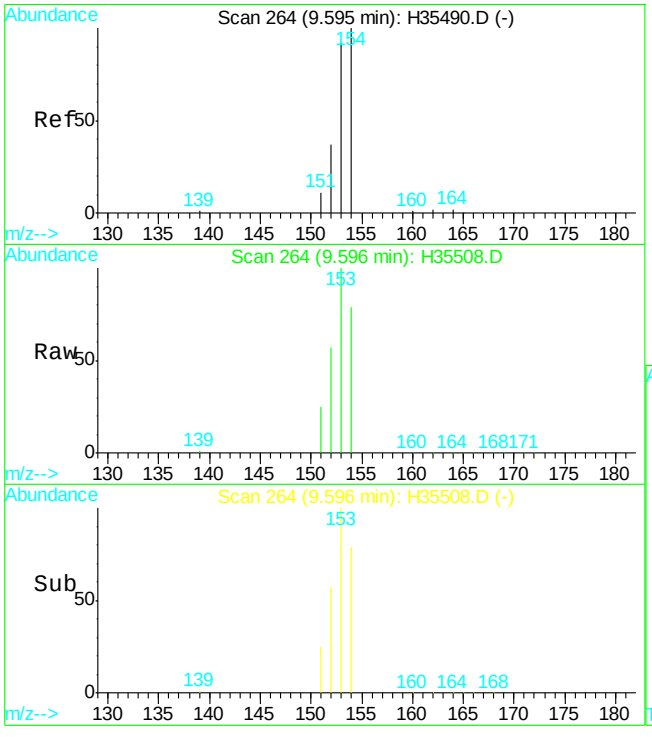


#11
Acenaphthylene
Concen: 0.07 ppb
RT: 9.41 min Scan# 257
Delta R.T. 0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:152 Resp: 3526

Ion	Ratio	Lower	Upper
152	100		
151	40.2	17.0	31.6#
153	36.2	8.1	15.1#

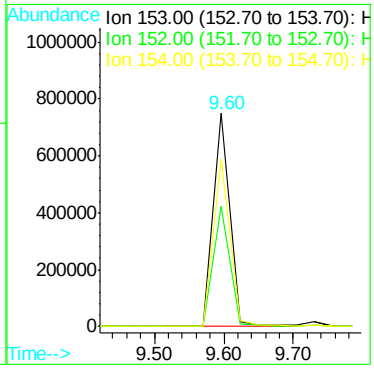


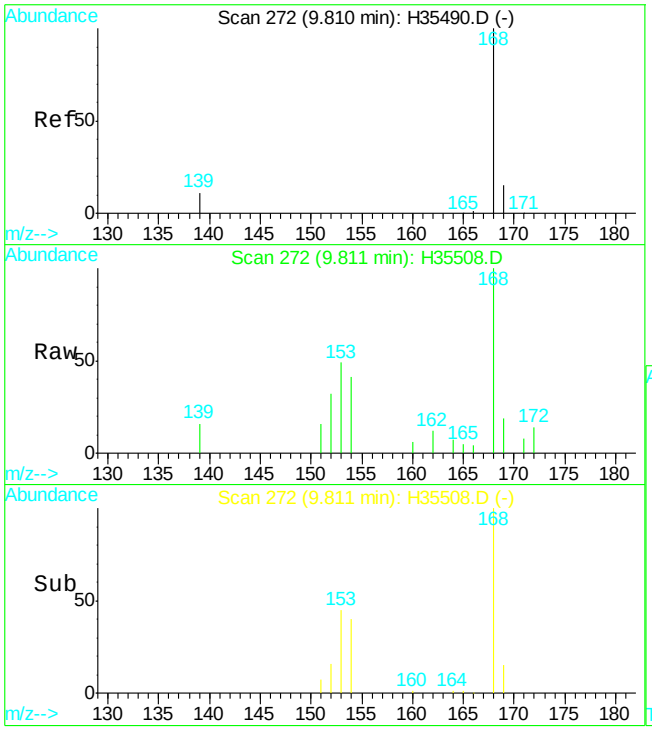


#12
Acenaphthene
Concen: 32.57 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:153 Resp: 1265199

Ion	Ratio	Lower	Upper
153	100		
152	56.6	28.3	52.7#
154	78.6	76.0	141.2

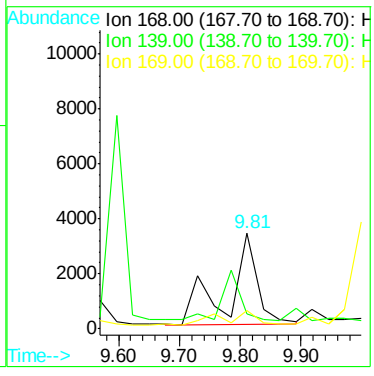


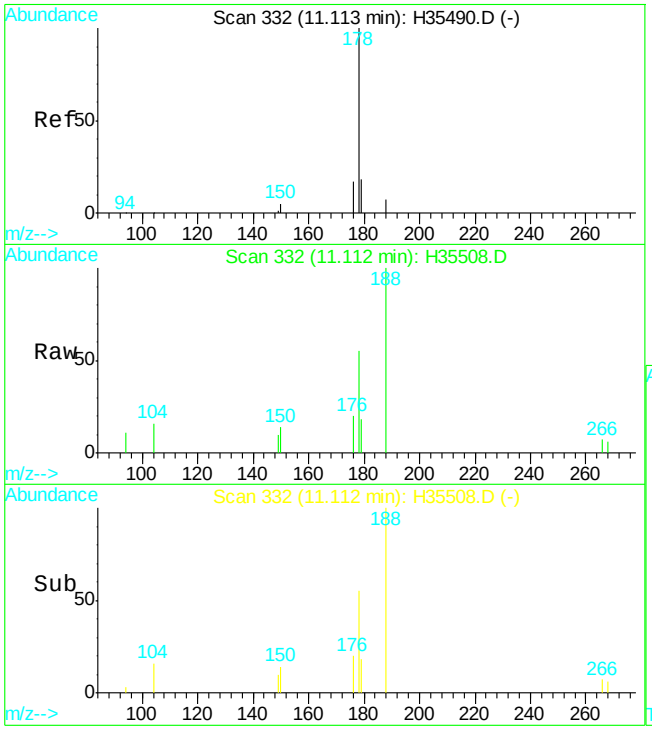


#13
Dibenzofuran
Concen: 0.34 ppb
RT: 9.81 min Scan# 272
Delta R.T. 0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:168 Resp: 11034

Ion	Ratio	Lower	Upper
168	100		
139	36.0	26.3	48.9
169	9.6	8.6	16.0

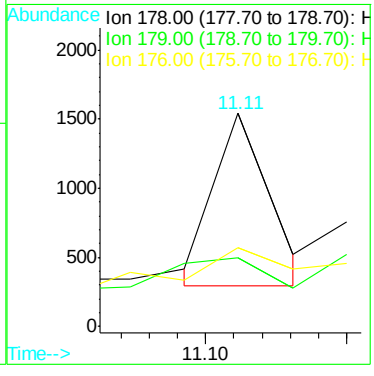


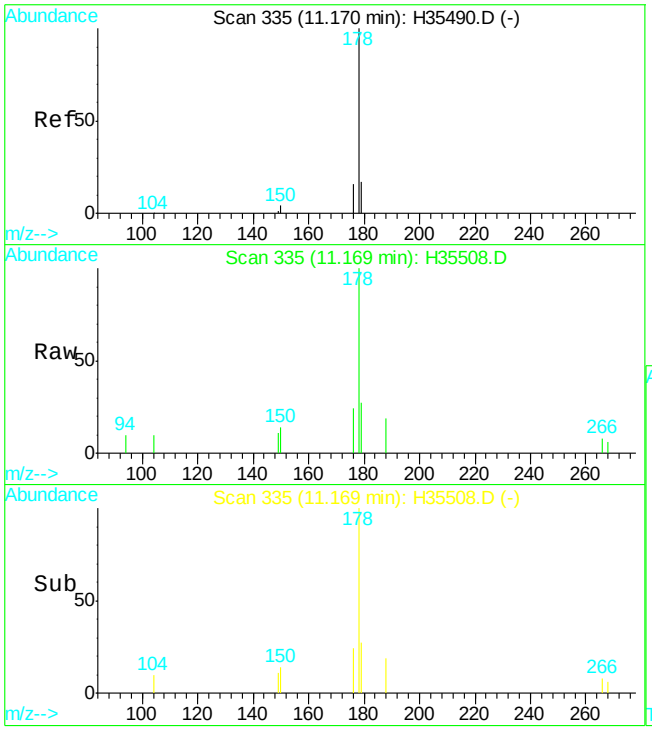


#18
Phenanthrene
Concen: 0.04 ppb m
RT: 11.11 min Scan# 332
Delta R.T. -0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:178 Resp: 1700

Ion	Ratio	Lower	Upper
178	100		
179	32.1	12.5	23.1#
176	36.9	12.0	22.2#

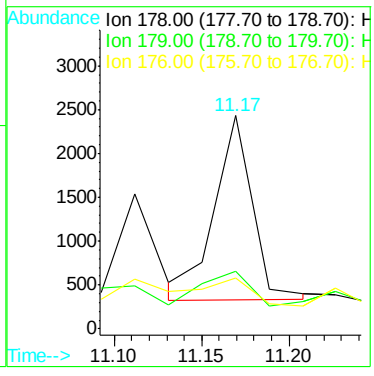




#19
Anthracene
Concen: 0.08 ppb m
RT: 11.17 min Scan# 335
Delta R.T. -0.00 min
Lab File: H35508.D
Acq: 20 Oct 2009 10:03 pm

Tgt Ion:178 Resp: 3133

Ion	Ratio	Lower	Upper
178	100		
179	26.8	12.3	22.9#
176	23.7	11.7	21.7#



8.1.21

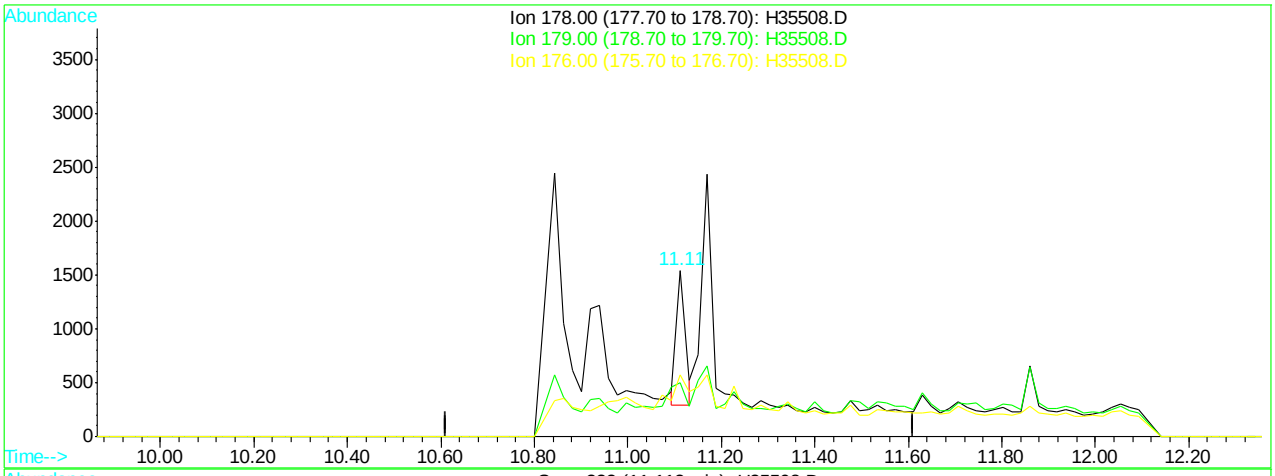
8

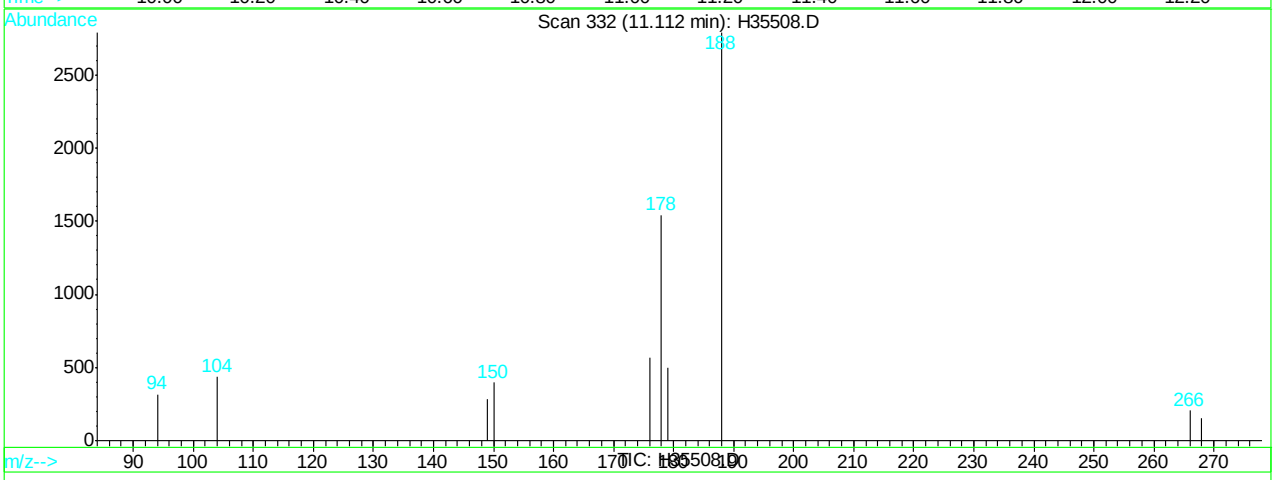
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35508.D Vial: 26
Acq On : 20 Oct 2009 10:03 pm Operator: sheilac
Sample : t39314-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:51 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:24:41 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.04ppb m

response 1700

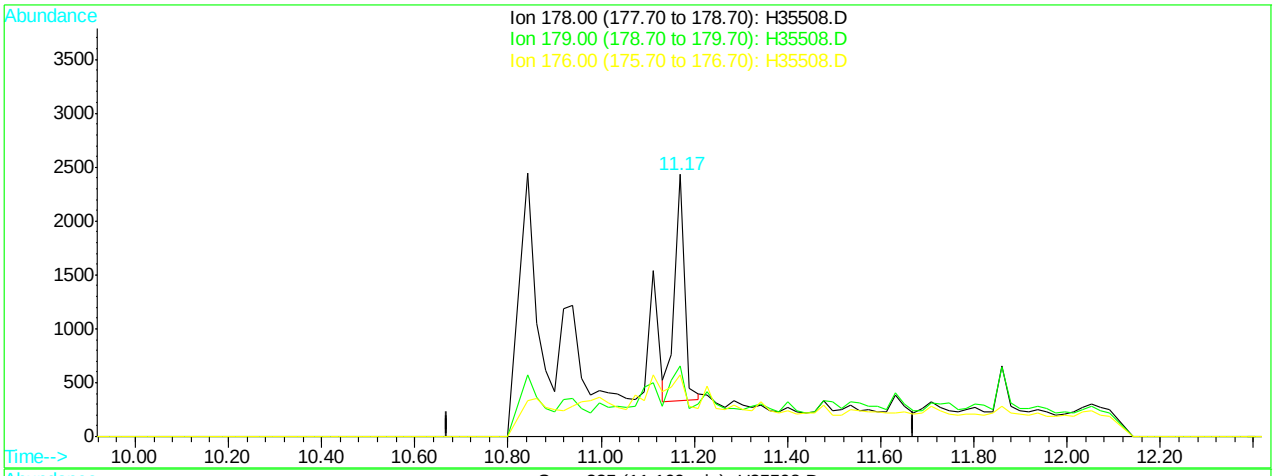
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	32.15#
176.00	17.10	36.94#
0.00	0.00	0.00

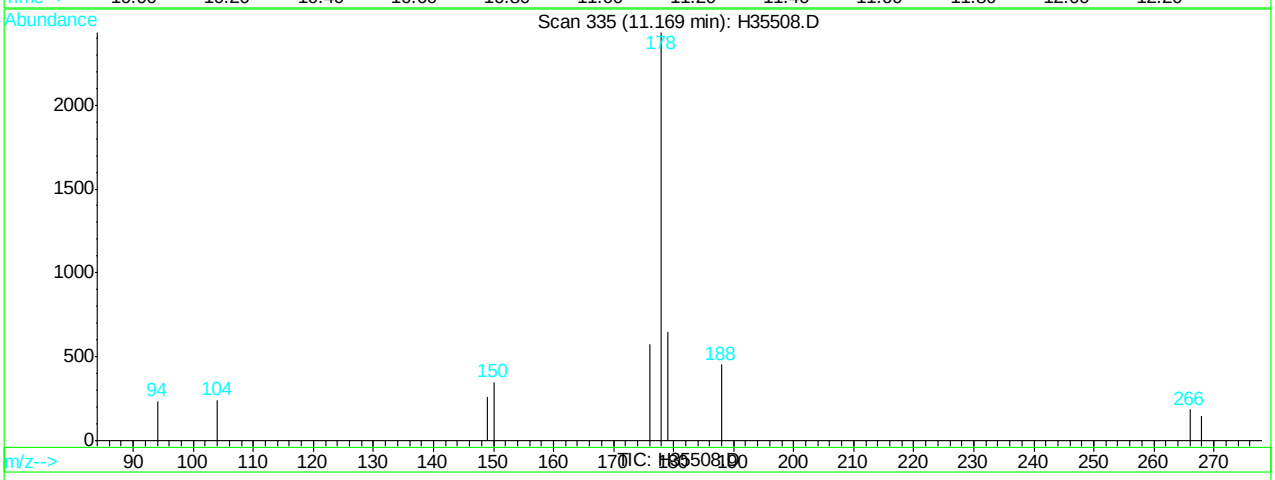
H35508.D H10209SP.M Wed Oct 21 12:52:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35508.D Vial: 26
Acq On : 20 Oct 2009 10:03 pm Operator: sheilac
Sample : t39314-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:51 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 12:24:41 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.08ppb m

response 3133

Ion	Exp%	Act%
178.00	100	100
179.00	17.60	26.77#
176.00	16.70	23.73#
0.00	0.00	0.00

H35508.D H10209SP.M Wed Oct 21 12:52:15 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35527.D Vial: 16
Acq On : 21 Oct 2009 5:51 pm Operator: sheilac
Sample : t39314-6,10x Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 18:28 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 18:27:32 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	66487	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	57241	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	34820	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	61393	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	23898	4.00	ppb	0.02
26) Perylene-d12	16.37	264	5725	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.61	82	12903	5.26	ppb	0.06
Spiked Amount 5.000	Range 17 - 131		Recovery	=	105.20%	
10) 2-Fluorobiphenyl	8.87	172	151906	6.48	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	129.60%	
16) 2,4,6-Tribromophenol	10.42	330	30776	15.38	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	153.80%#	
23) Terphenyl-d14	12.66	244	40003	8.82	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	176.40%#	

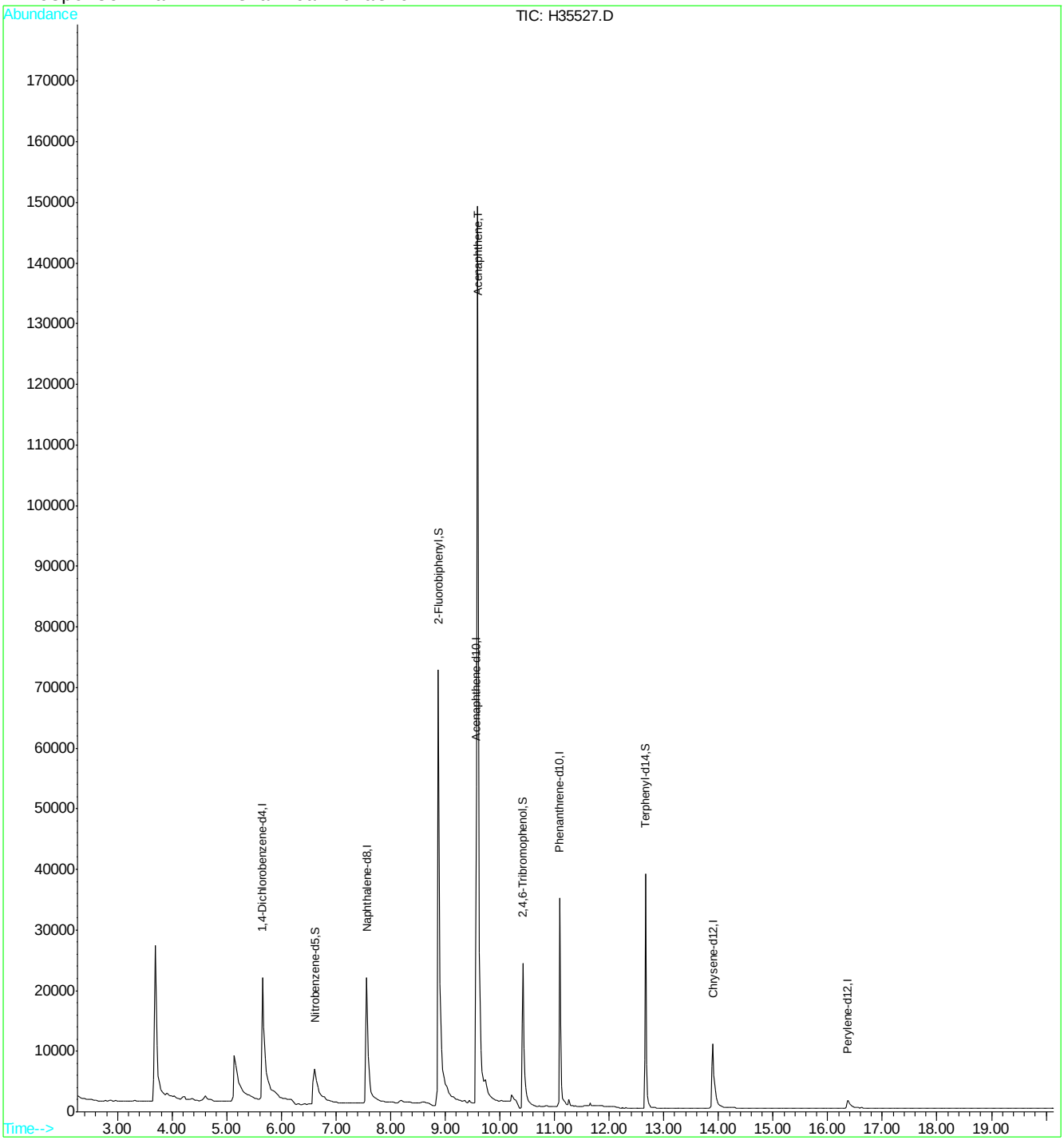
Target Compounds						Qvalue
12) Acenaphthene	9.60	153	109882	5.52	ppb	78

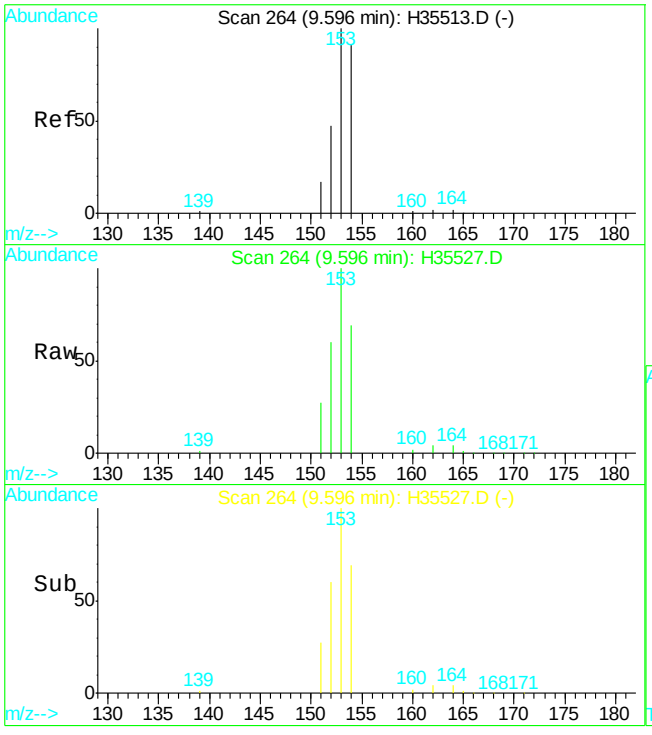
(#) = qualifier out of range (m) = manual integration
H35527.D H10219SP.M Thu Oct 22 12:36:19 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35527.D Vial: 16
Acq On : 21 Oct 2009 5:51 pm Operator: sheilac
Sample : t39314-6,10x Inst : TXMSH
Misc : OP13269,EH1918,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 18:28 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 10:53:10 2009
Response via : Initial Calibration

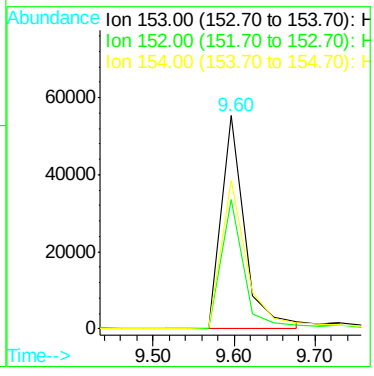




#12
Acenaphthene
Concen: 5.52 ppb
RT: 9.60 min Scan# 264
Delta R.T. 0.00 min
Lab File: H35527.D
Acq: 21 Oct 2009 5:51 pm

Tgt Ion:153 Resp: 109882

Ion	Ratio	Lower	Upper
153	100		
152	60.5	33.0	61.4
154	69.0	63.6	118.2



8.1.22

8

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%			

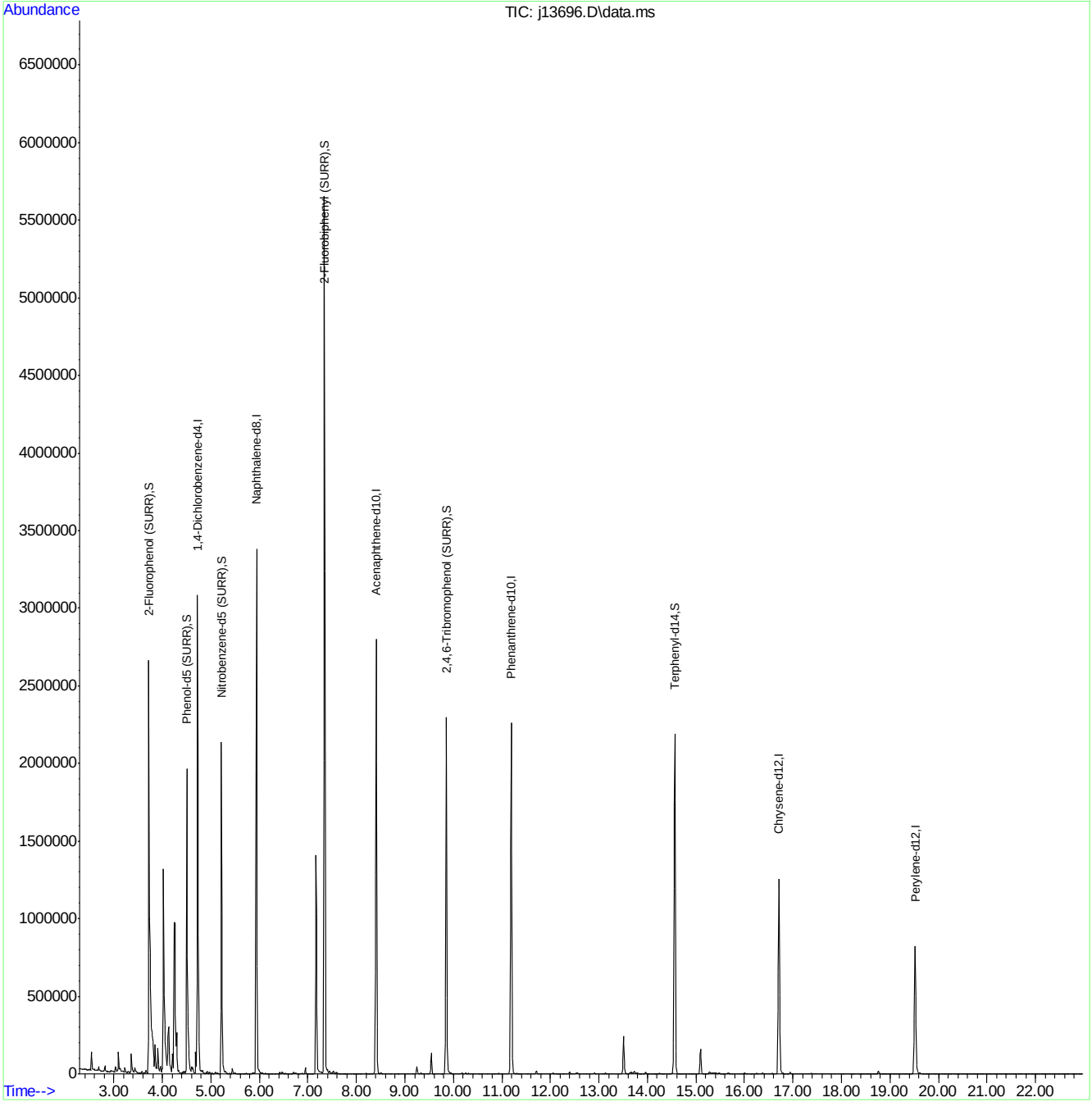
Target Compounds Qvalue

(#) = 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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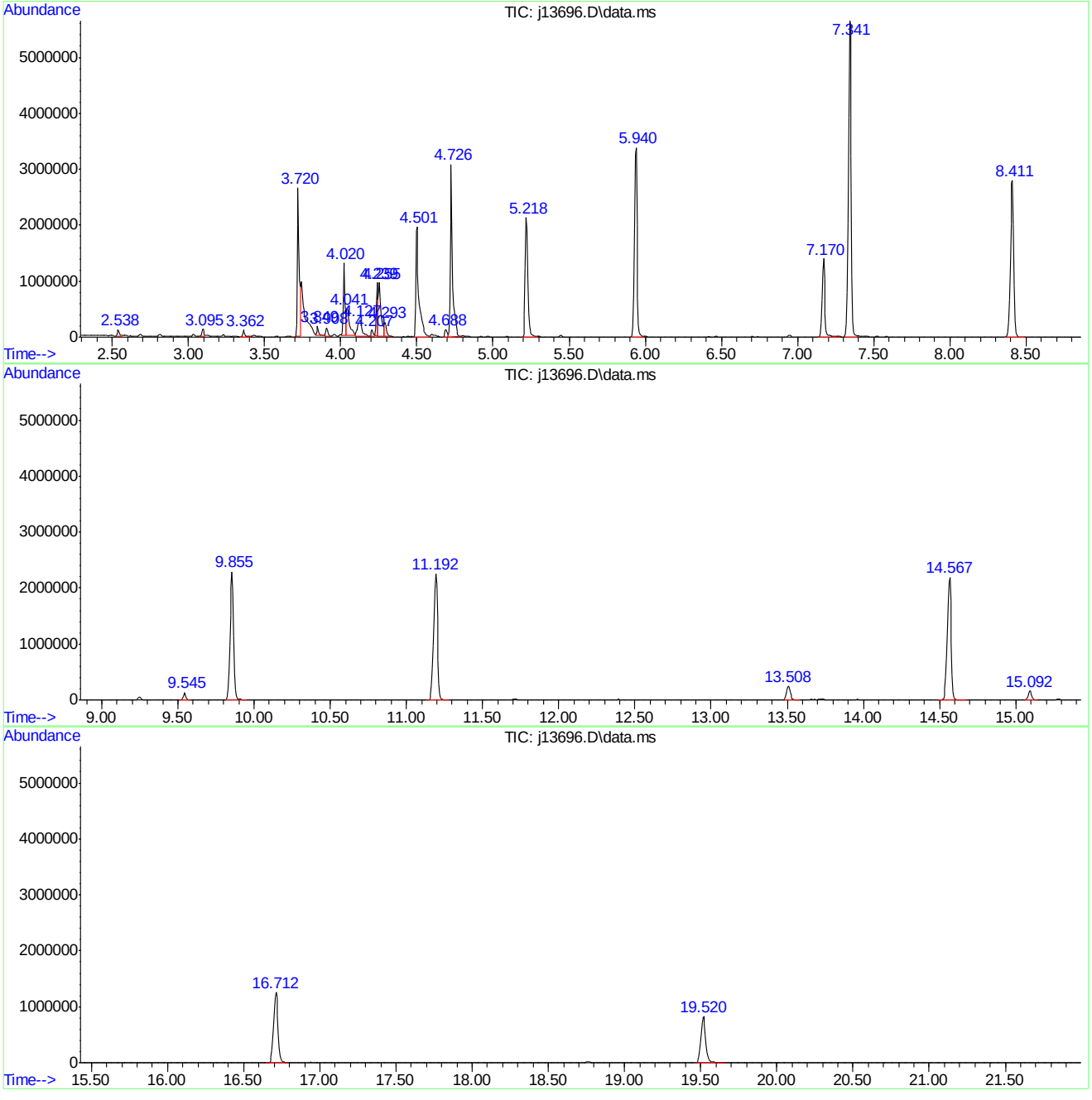


Library Search Compound Report

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

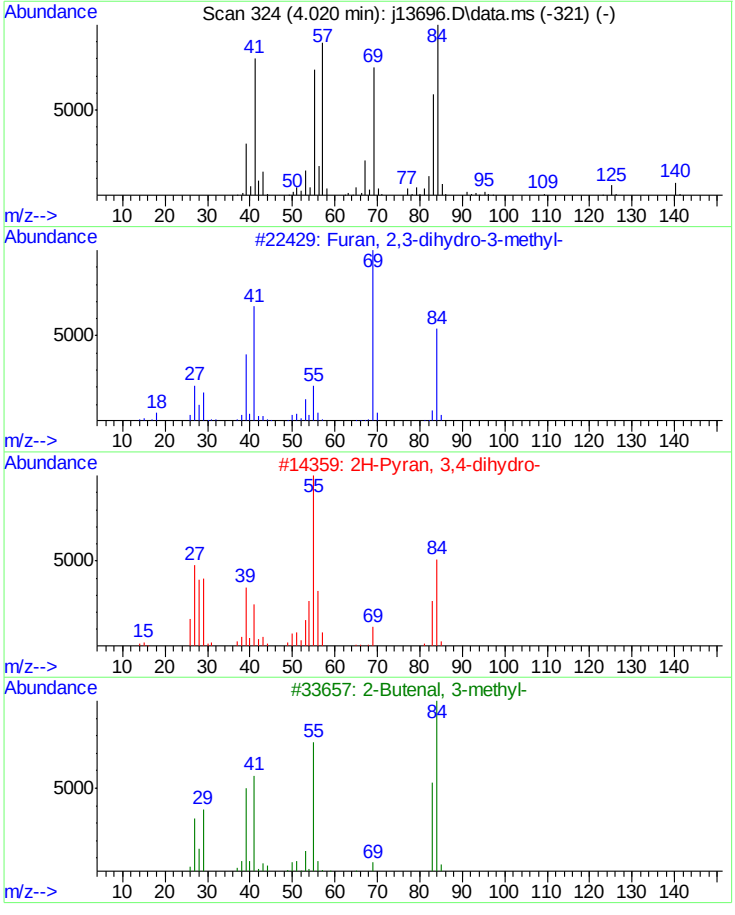
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

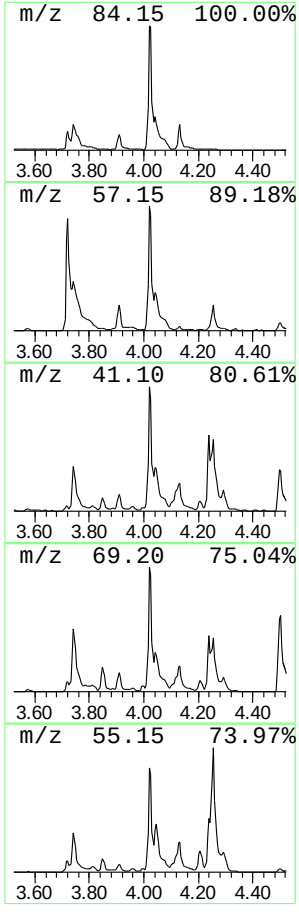
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
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  :

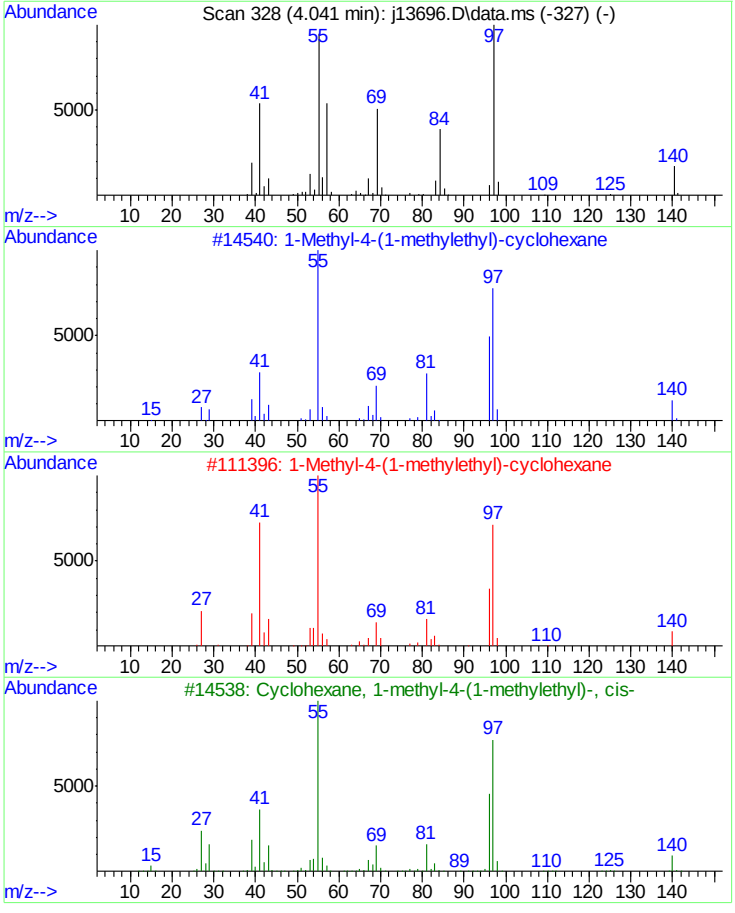
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

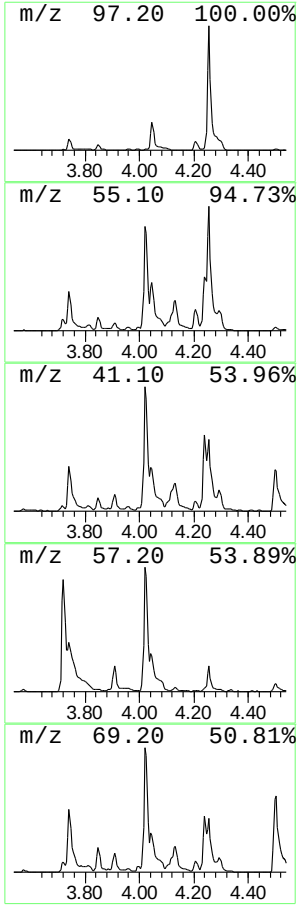
****

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 :

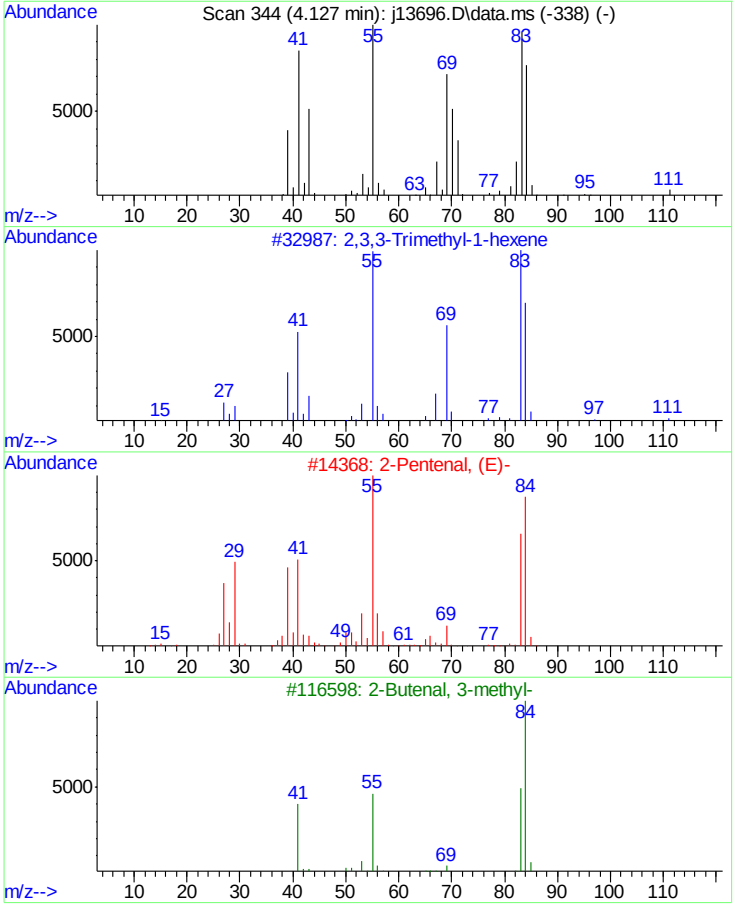
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

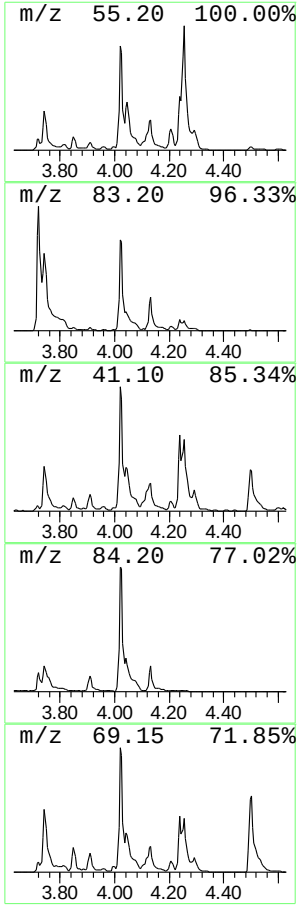
****

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





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 :

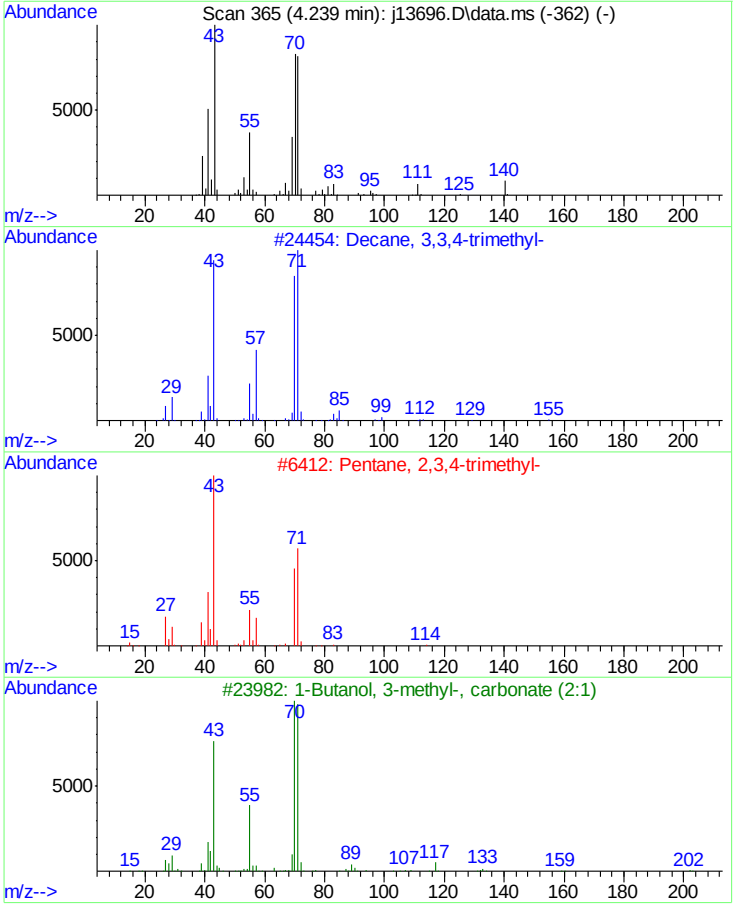
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

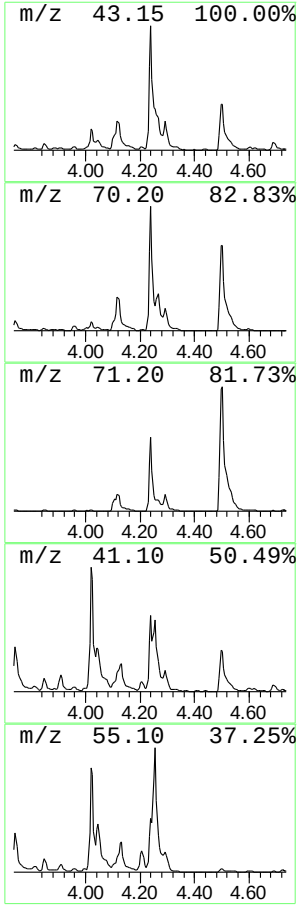
****

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 :

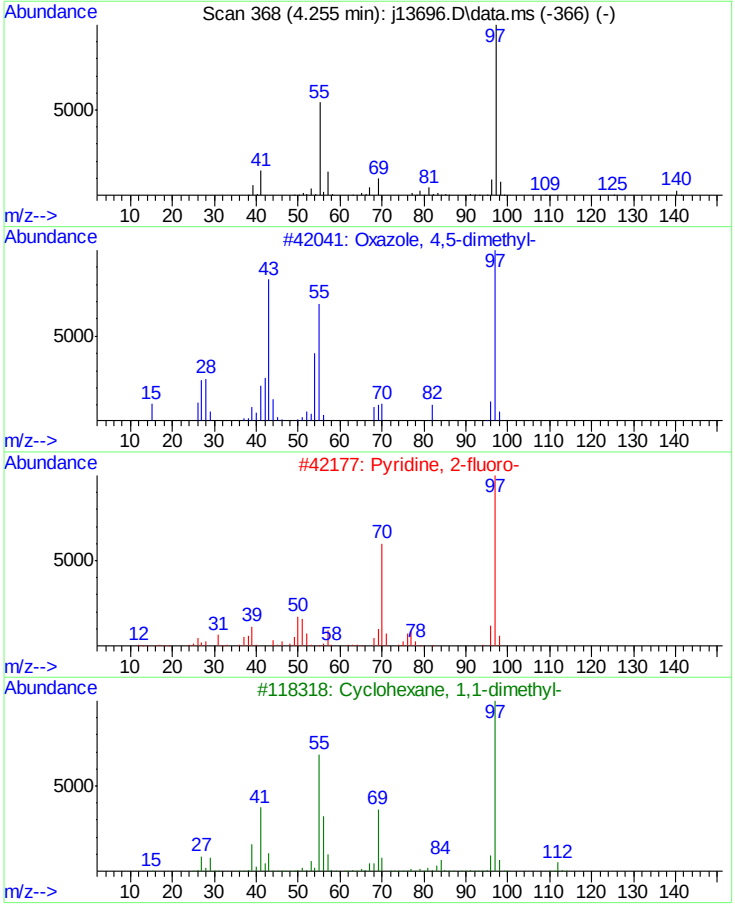
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

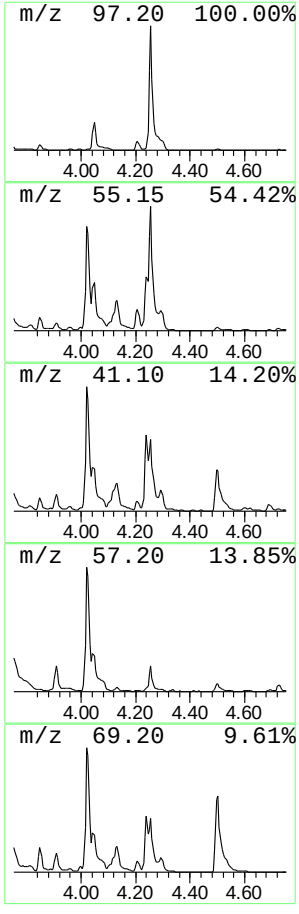
****

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

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 :

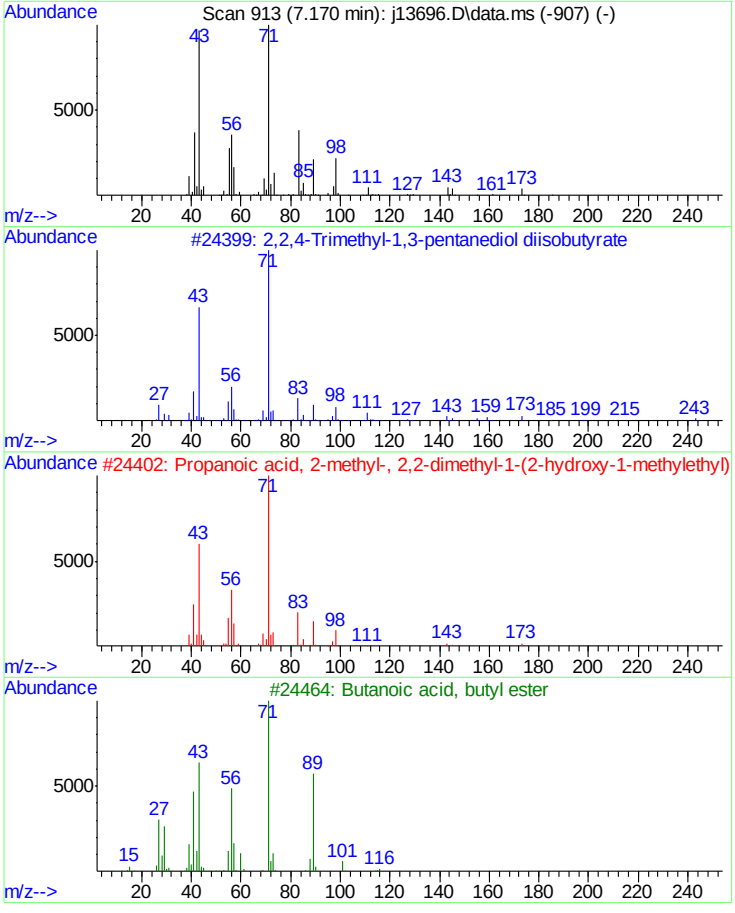
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

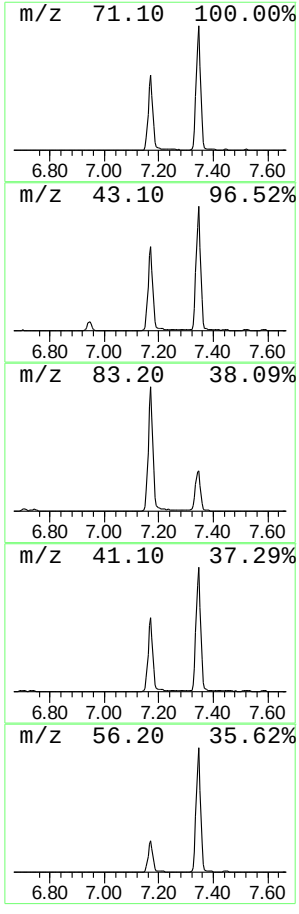
****

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

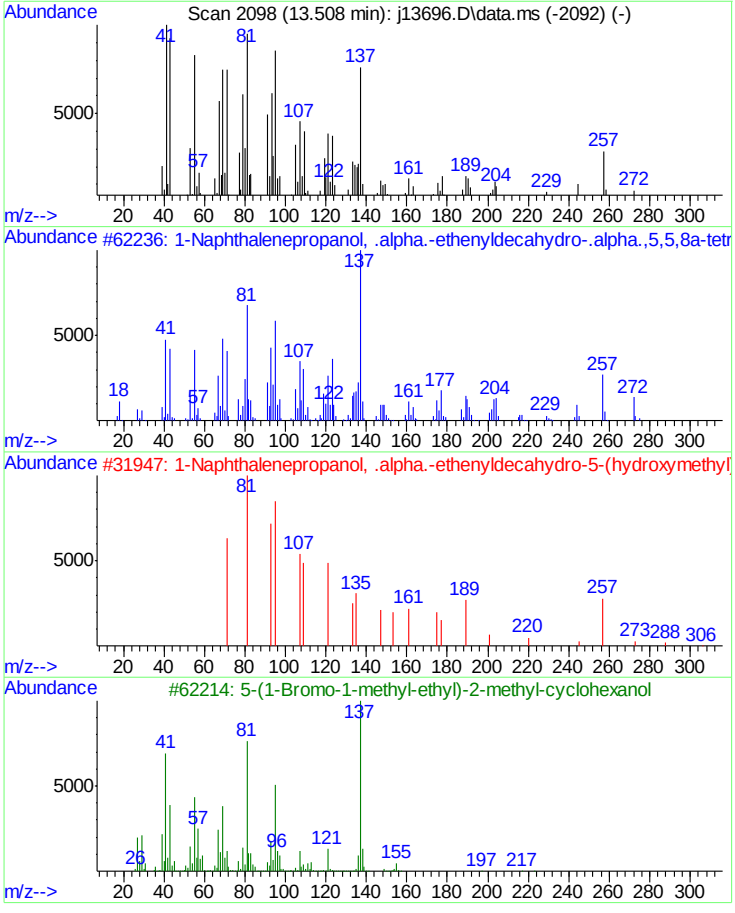
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

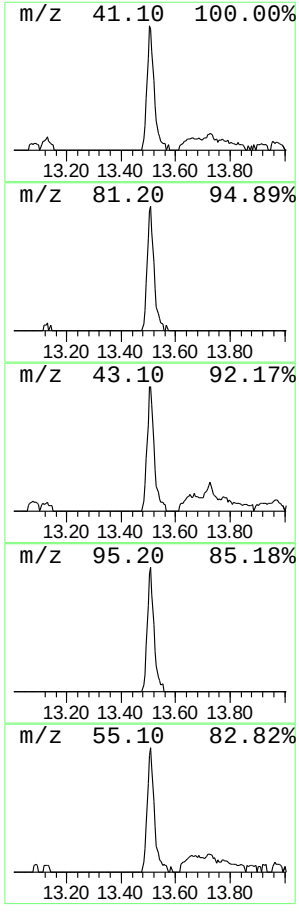
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
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





ACCUTEST Laboratories T39314

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%#		

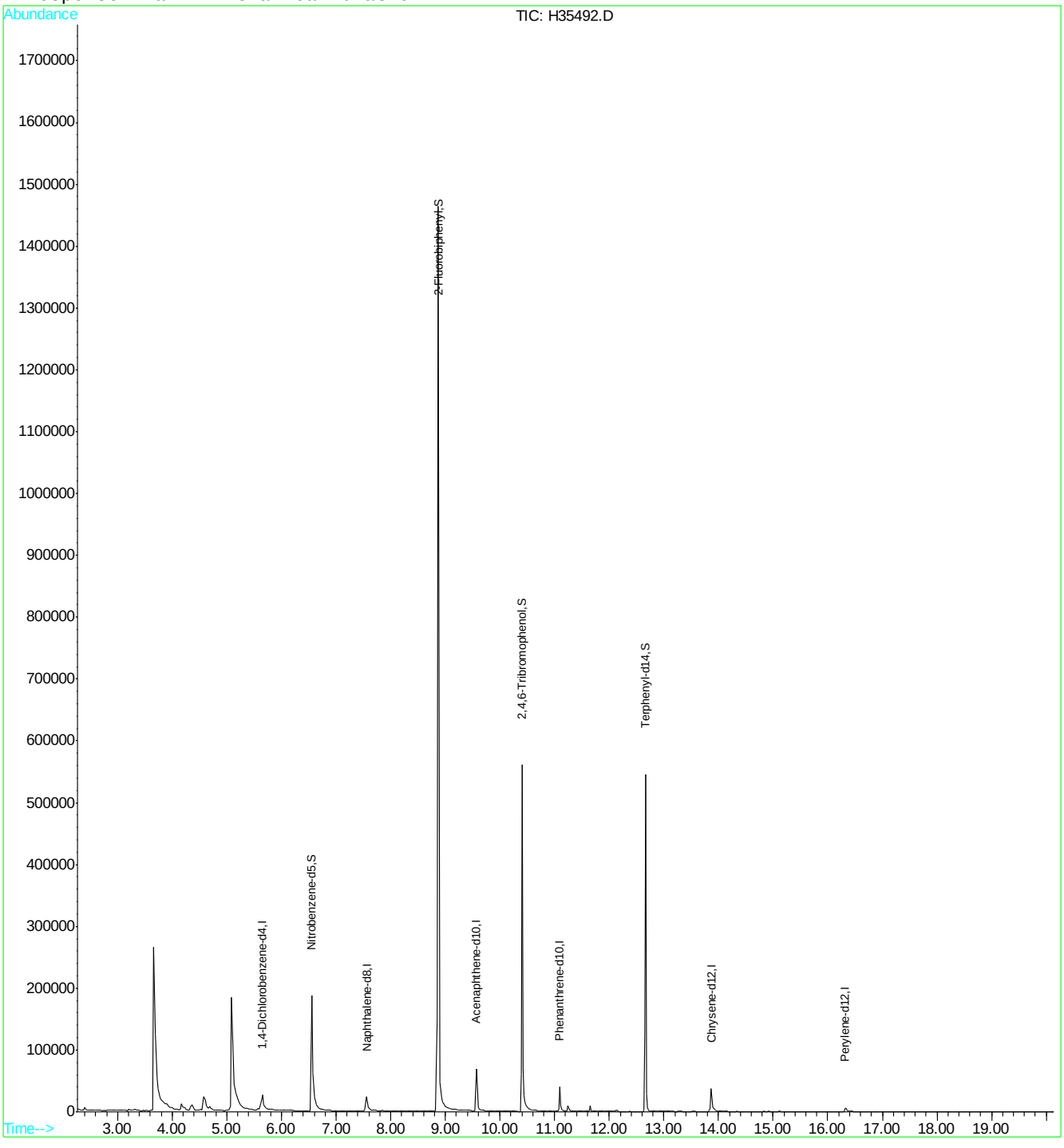
Target Compounds Qvalue

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

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

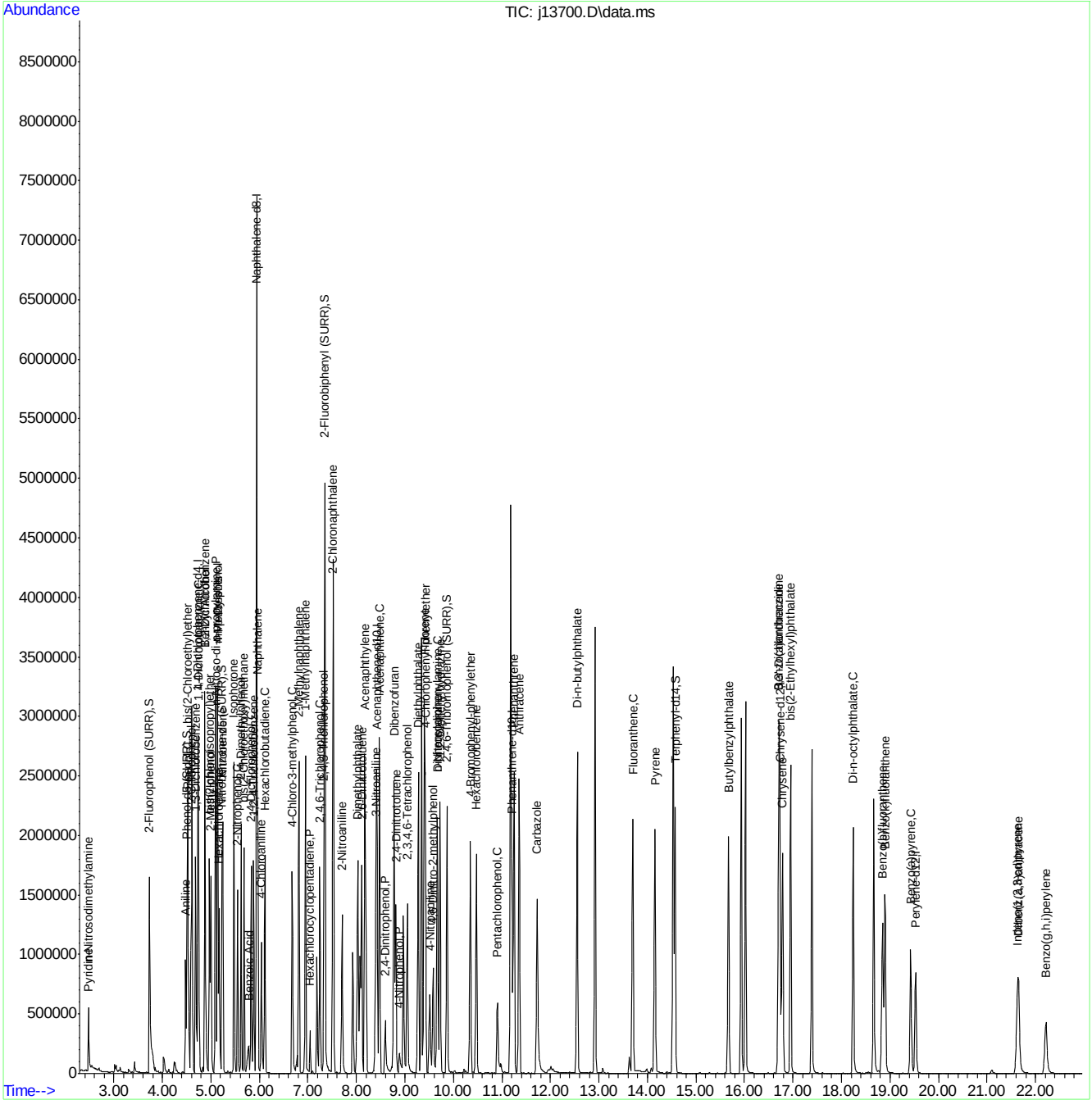
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	484389	35.77	ug/ml	99
34) 2-Methylnaphthalene	6.817	142	942899	32.56	ug/ml	99
35) 1-Methylnaphthalene	6.951	142	934165	30.80	ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	62648	21.66	ug/ml	97
38) 2,4,6-Trichlorophenol	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



ACCUTEST Laboratories T39314

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

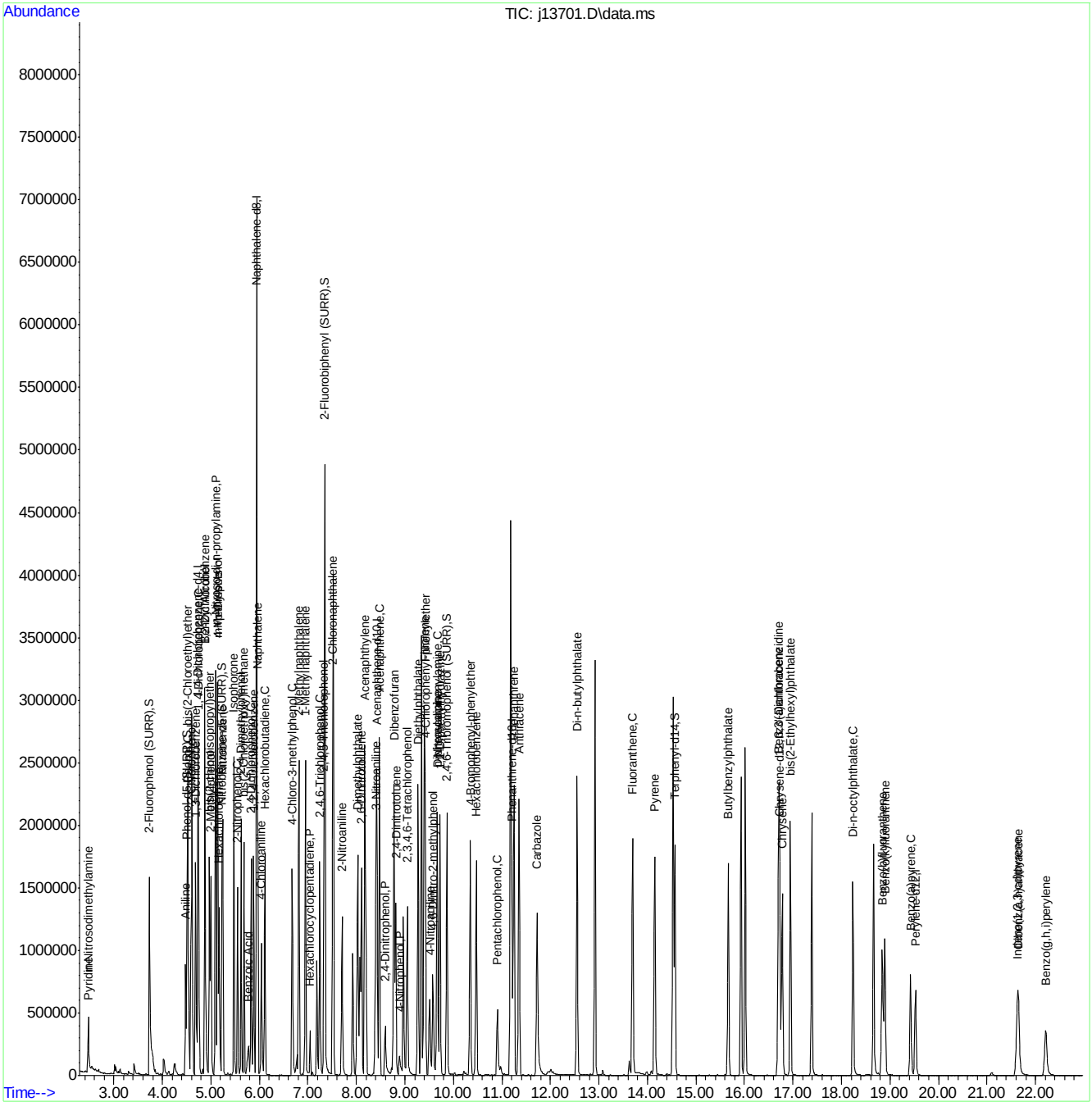
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	462854	35.80 ug/ml	99
34) 2-Methylnaphthalene	6.812	142	902718	32.64 ug/ml	100
35) 1-Methylnaphthalene	6.951	142	891752	30.79 ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	64092	23.01 ug/ml	95
38) 2,4,6-Trichlorophenol	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 T39314

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

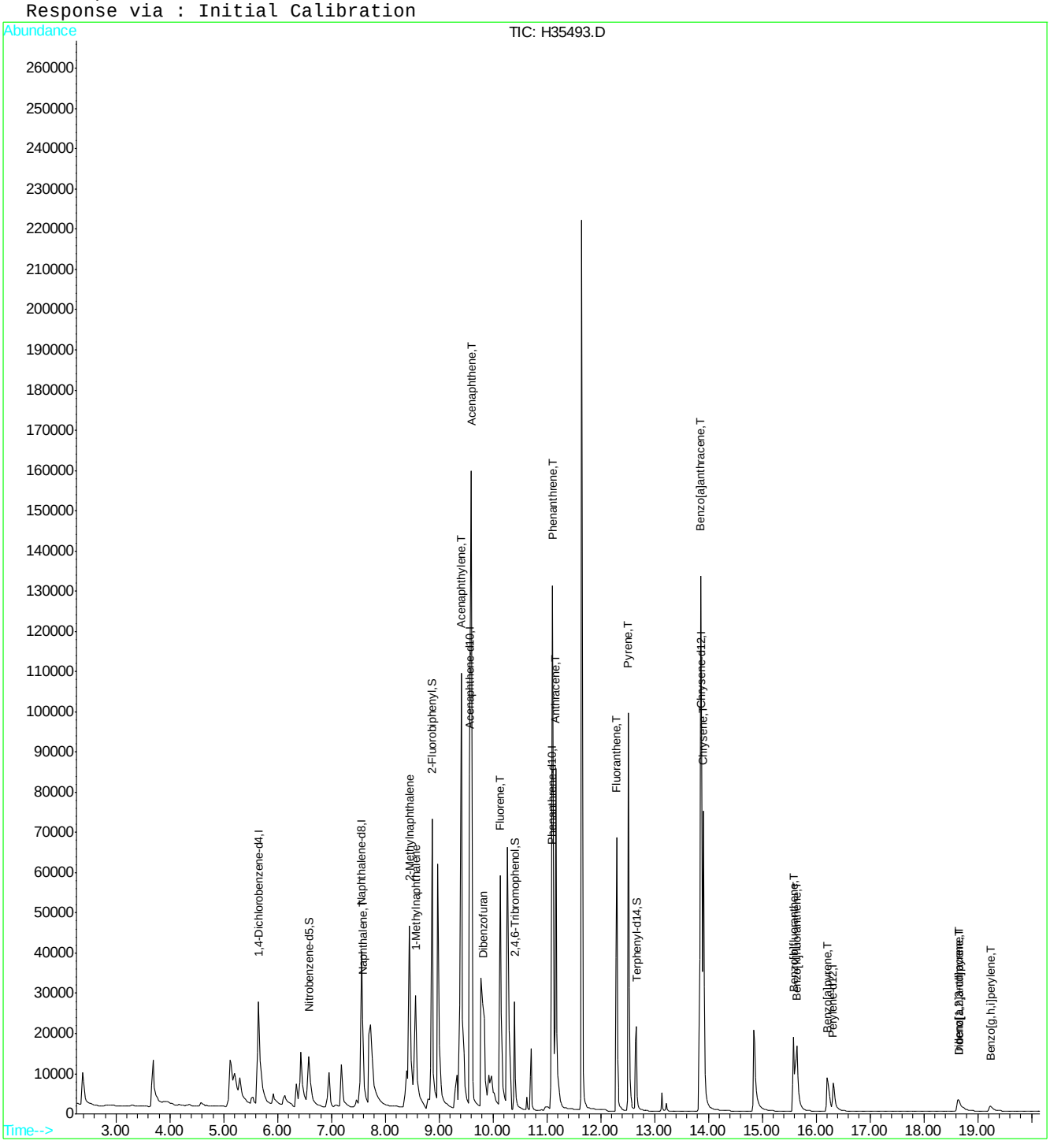
							Qvalue
6) Naphthalene	7.59	128	45058	2.13	ppb		95
7) 2-Methylnaphthalene	8.45	142	63474m	2.85	ppb		
8) 1-Methylnaphthalene	8.56	142	59723	2.53	ppb	#	97
11) Acenaphthylene	9.41	152	146890	3.28	ppb		99
12) Acenaphthene	9.60	153	102617	3.01	ppb		96
13) Dibenzofuran	9.81	168	68046	2.66	ppb		92
14) Fluorene	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

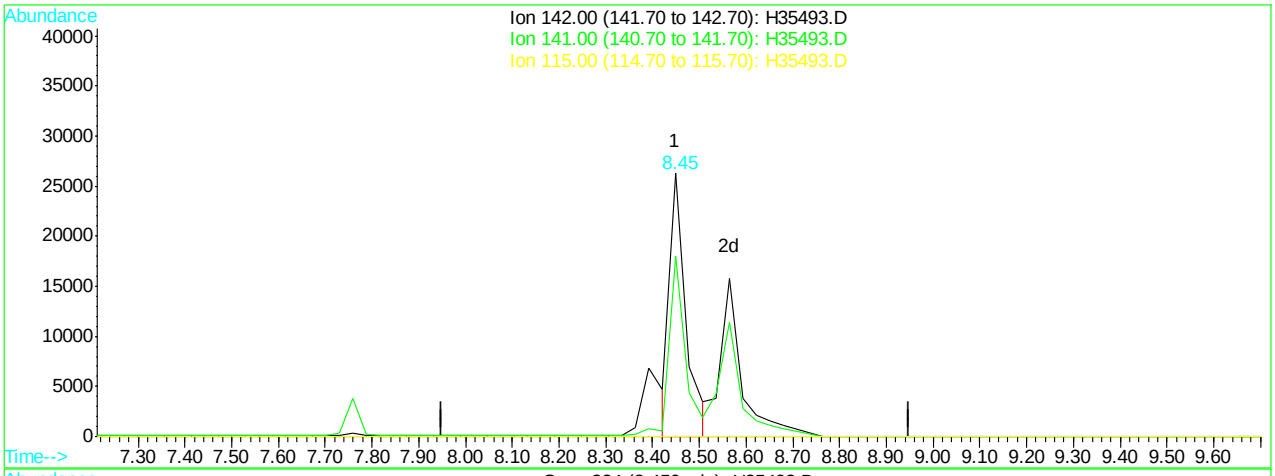
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration

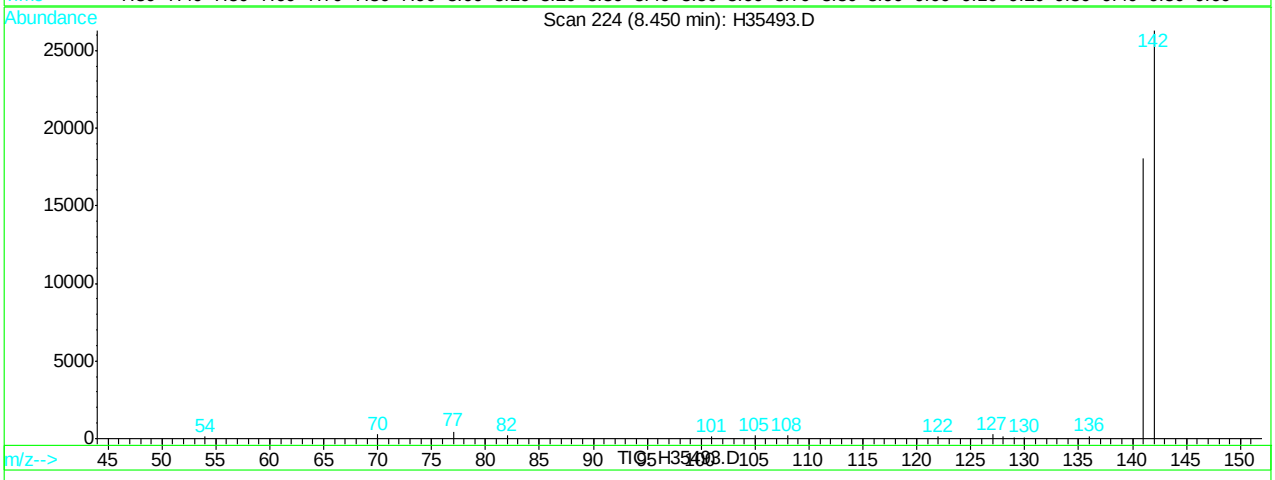


Quantitation Report (Qedit)

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

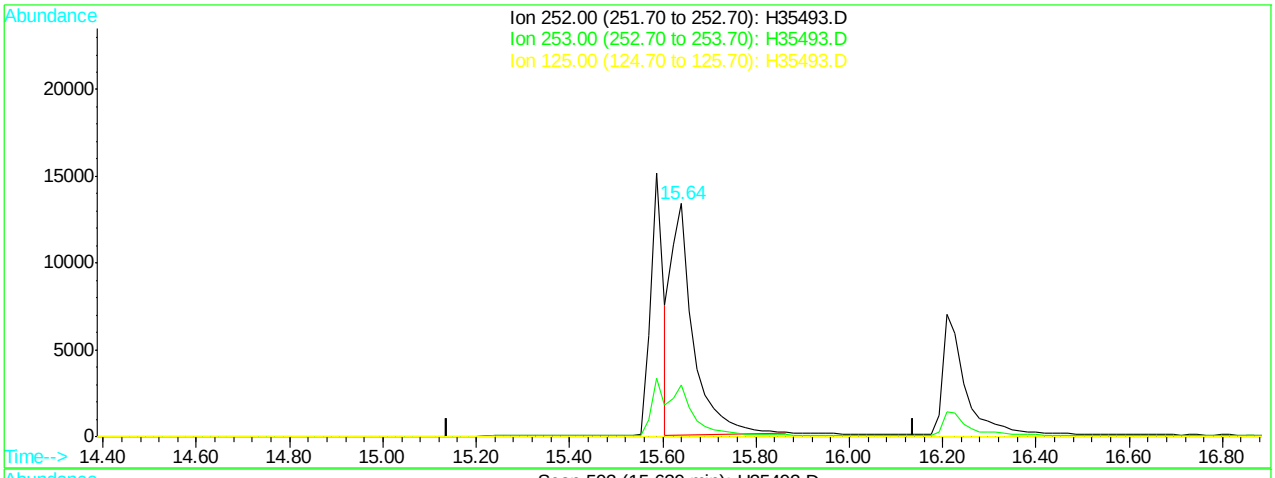
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	69.71
115.00	0.00	0.00
0.00	0.00	0.00

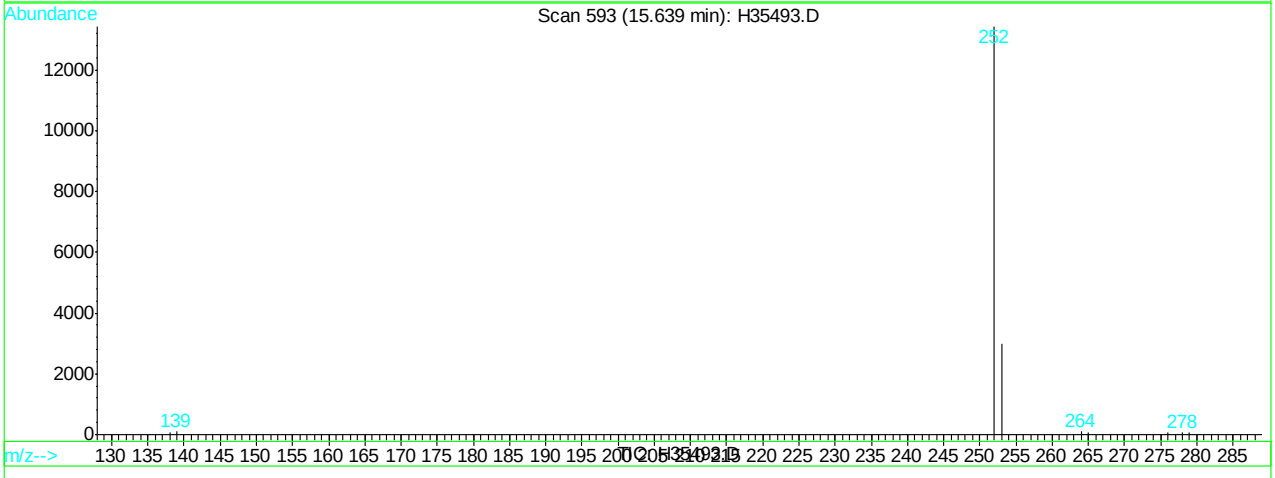
H35493.D H10209SP.M Tue Oct 20 17:09:41 2009

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%	

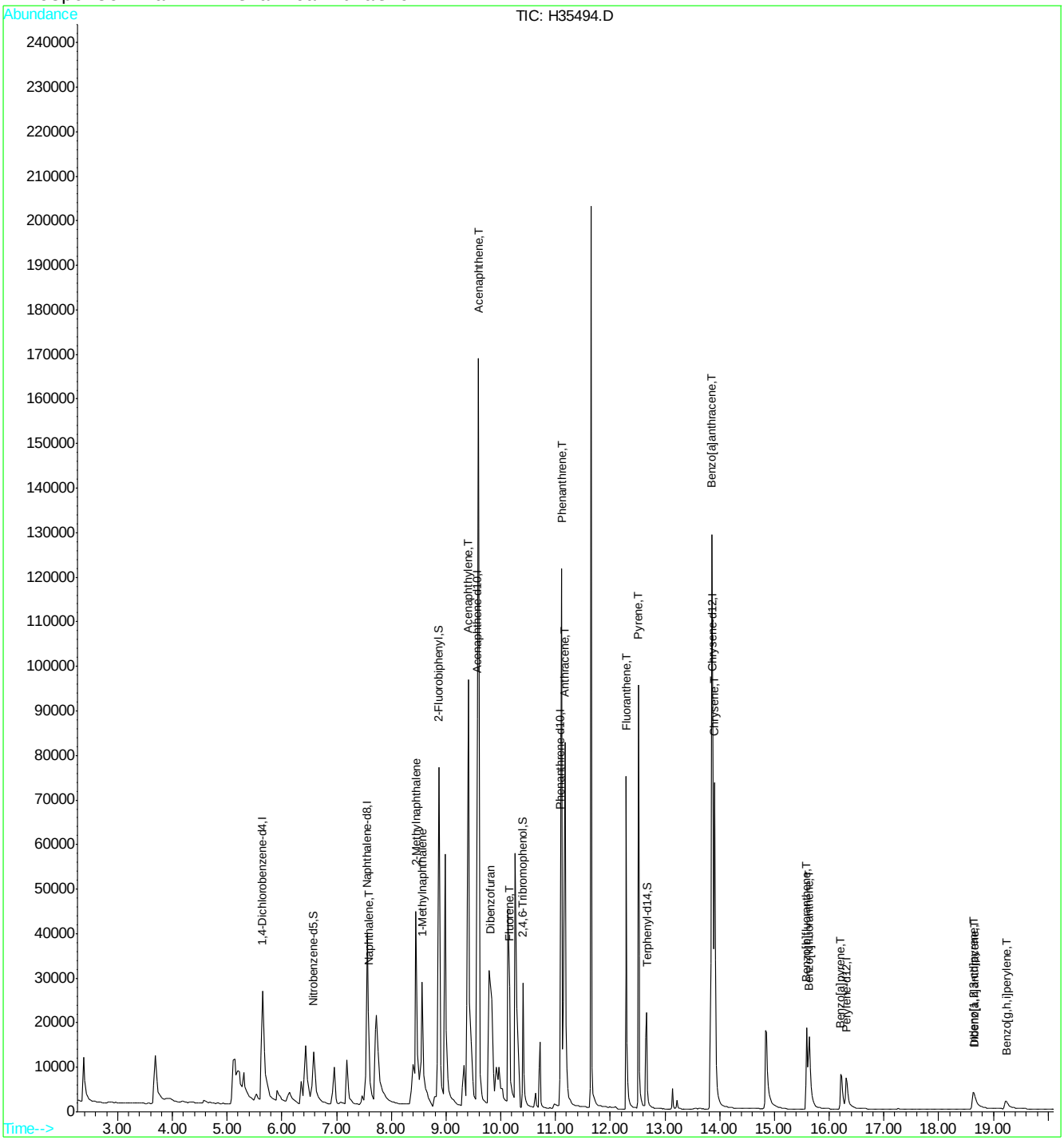
Target Compounds							Qvalue
6) Naphthalene	7.59	128	44865	2.20	ppb		94
7) 2-Methylnaphthalene	8.45	142	61020m	2.84	ppb		
8) 1-Methylnaphthalene	8.57	142	59092	2.60	ppb	#	96
11) Acenaphthylene	9.41	152	131765	2.88	ppb		97
12) Acenaphthene	9.59	153	109633	3.14	ppb		90
13) Dibenzofuran	9.81	168	67425	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

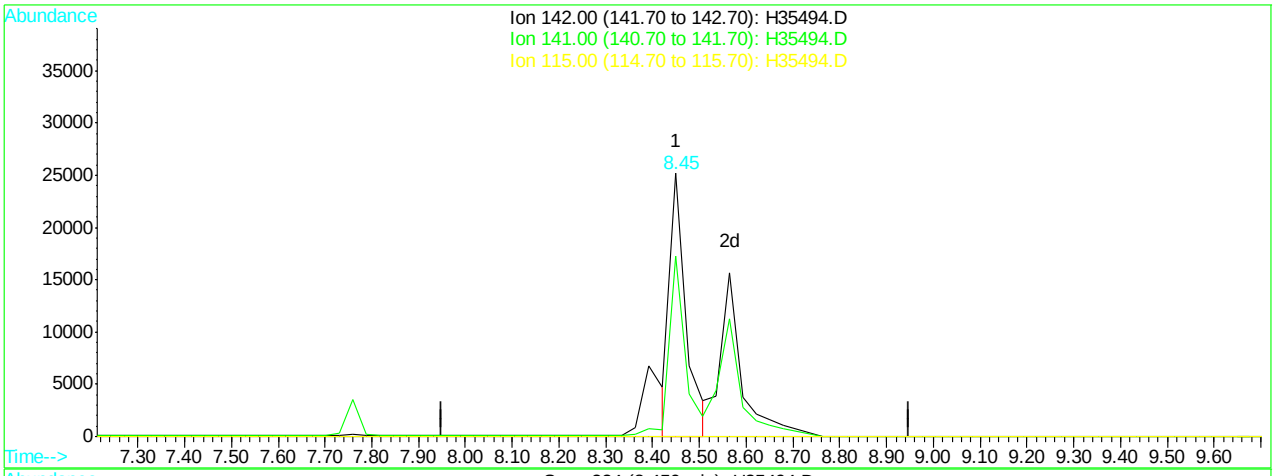
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration

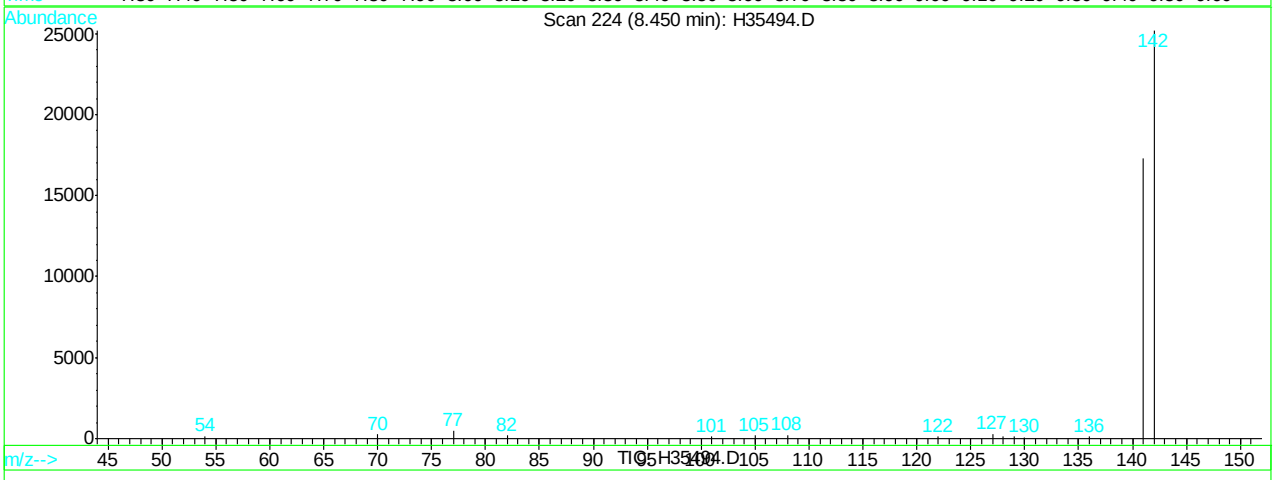


Quantitation Report (Qedit)

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

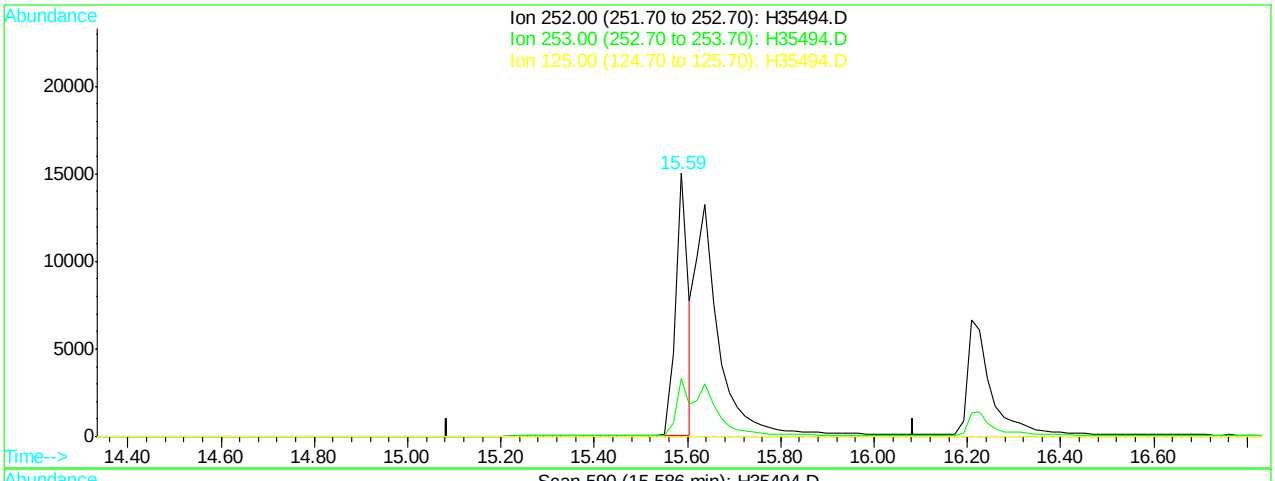
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	69.76
115.00	0.00	0.00
0.00	0.00	0.00

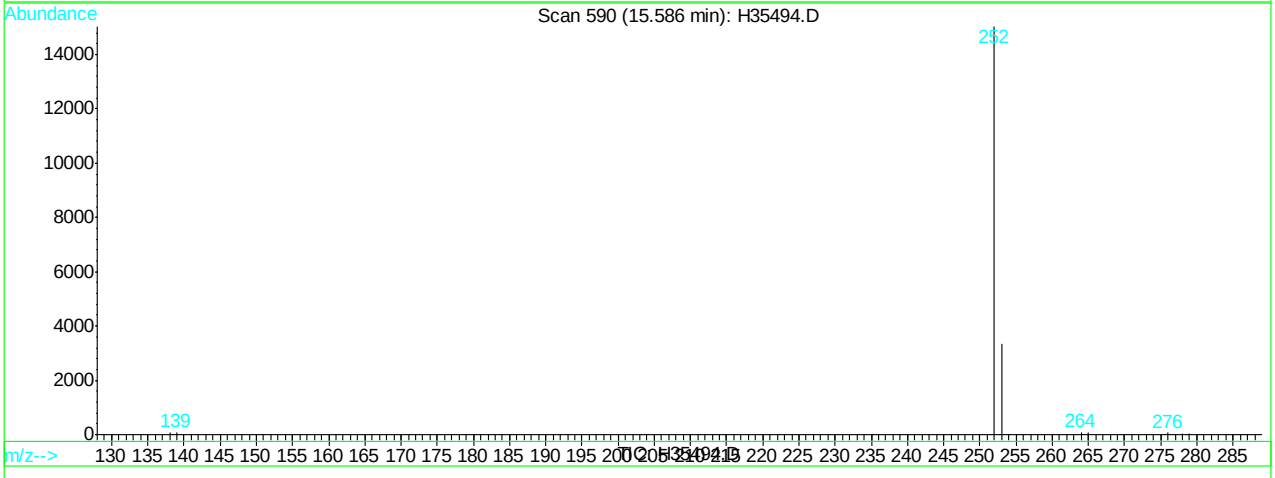
H35494.D H10209SP.M Tue Oct 20 17:10:04 2009

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

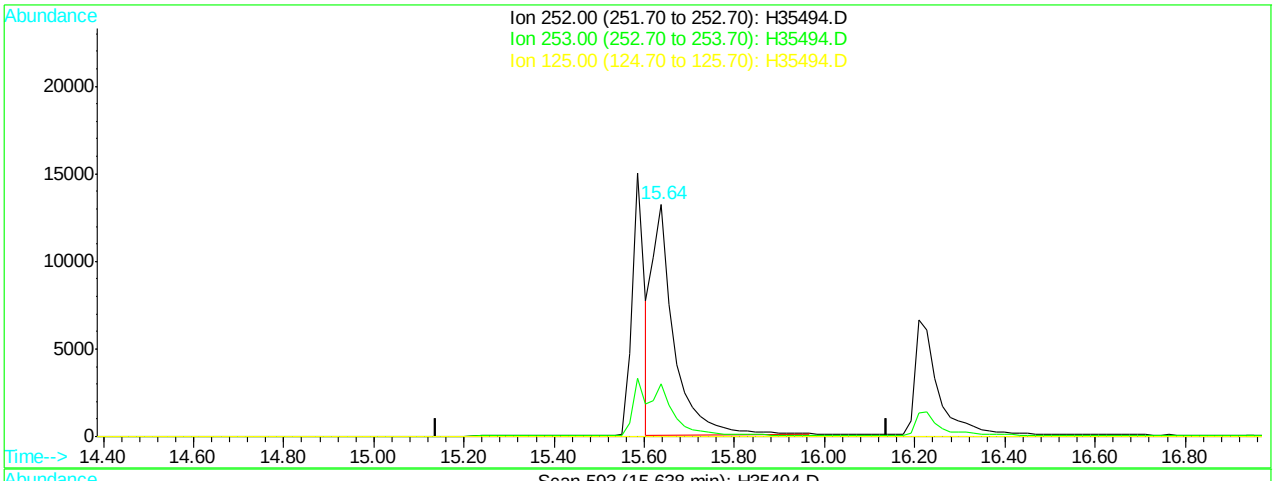
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.32
125.00	0.00	0.00
0.00	0.00	0.00

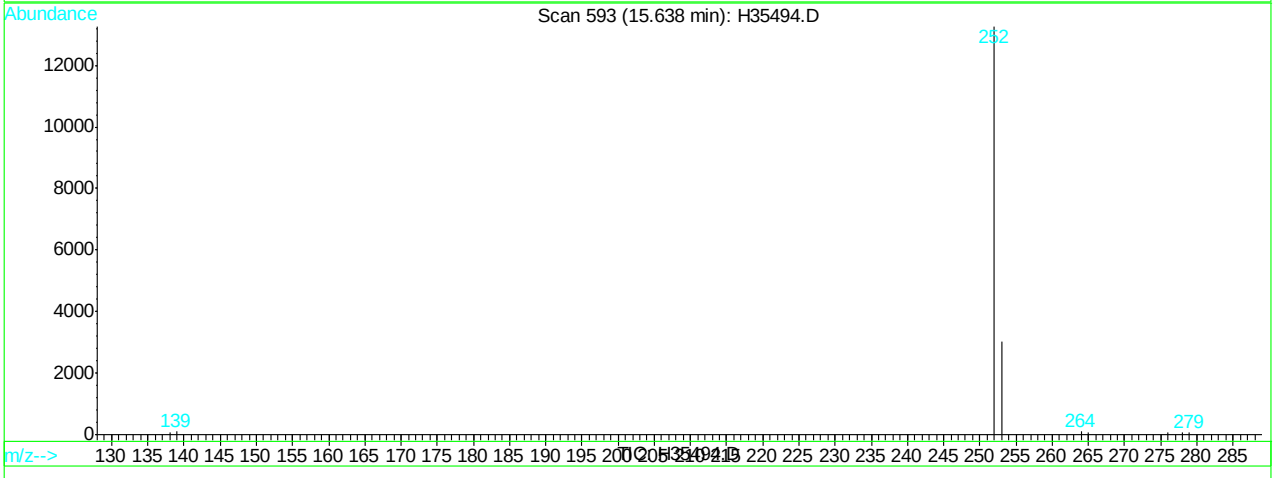
H35494.D H10209SP.M Tue Oct 20 17:10:12 2009

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

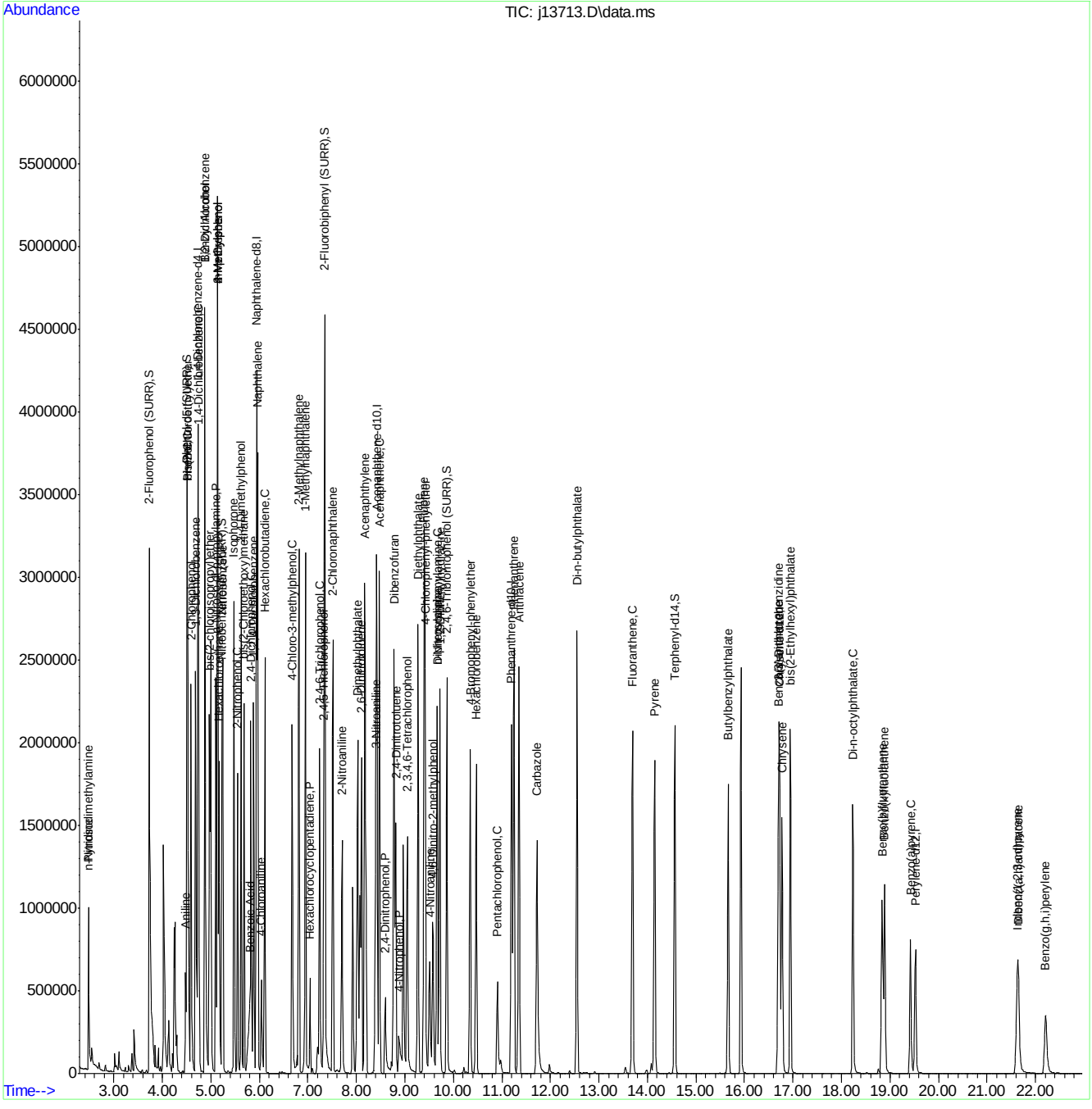
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	563546	33.94 ug/ml	99
34) 2-Methylnaphthalene	6.812	142	1132189	31.88 ug/ml	99
35) 1-Methylnaphthalene	6.951	142	1106293	29.74 ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	97177	24.94 ug/ml	95
38) 2,4,6-Trichlorophenol	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

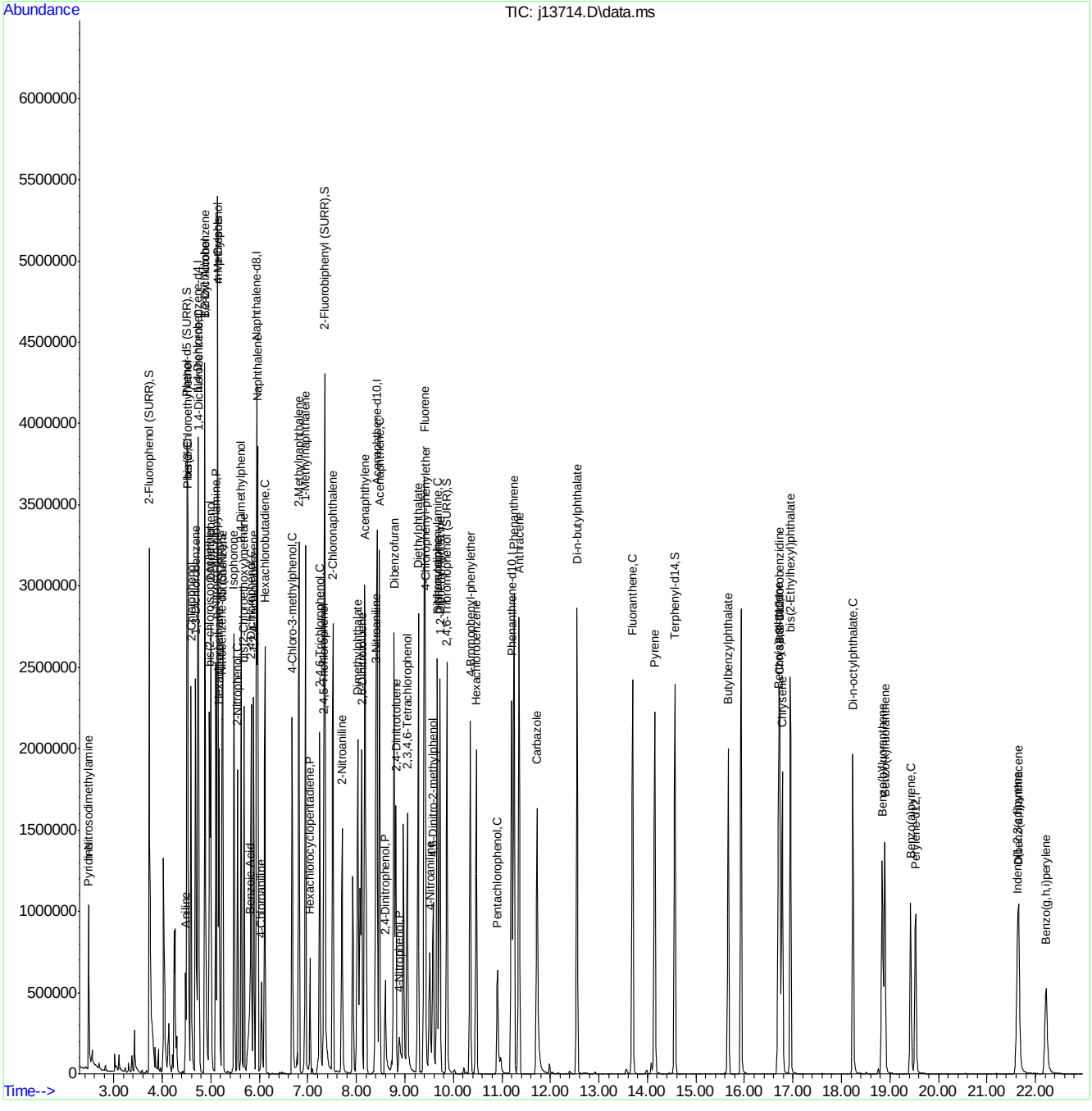
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	593729	35.65	ug/ml	99
34) 2-Methylnaphthalene	6.817	142	1174703	32.98	ug/ml	99
35) 1-Methylnaphthalene	6.951	142	1151495	30.87	ug/ml	99
37) Hexachlorocyclopentadiene	7.042	237	119354	28.17	ug/ml	98
38) 2,4,6-Trichlorophenol	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



ACCUTEST Laboratories T39314

DFTPP

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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
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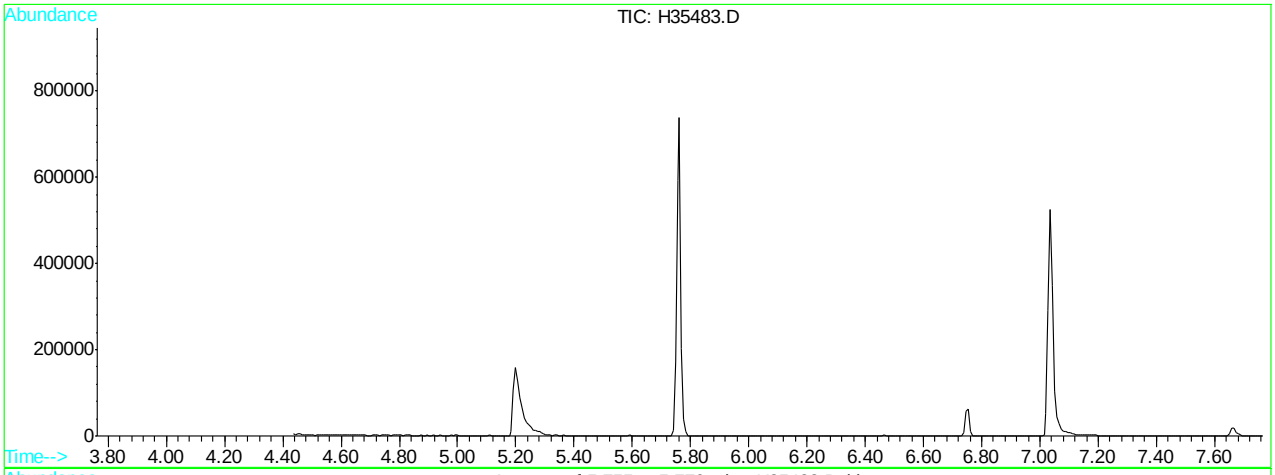
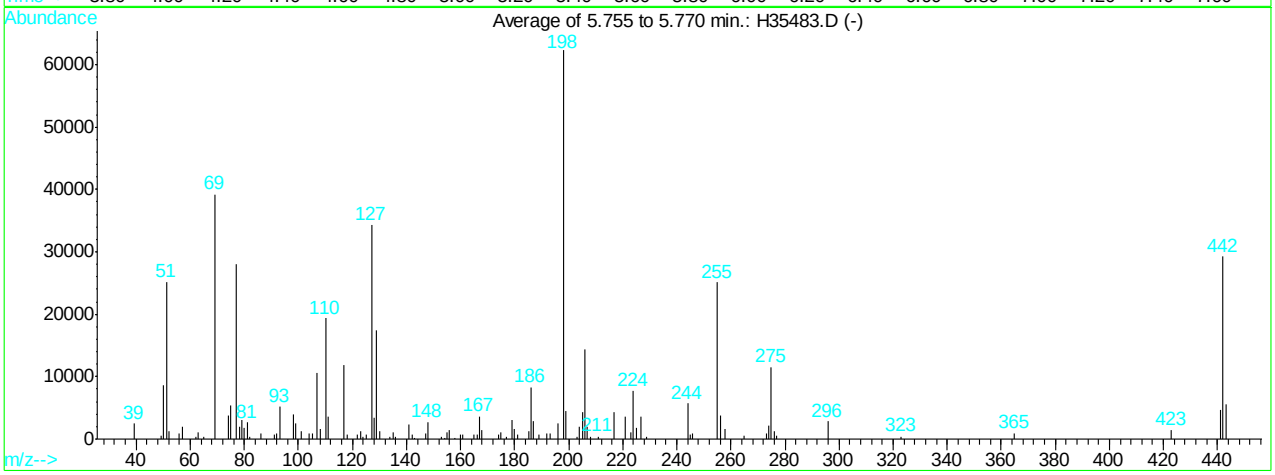




AutoFind: Scans 179, 180, 181; Background Corrected with Scan 174

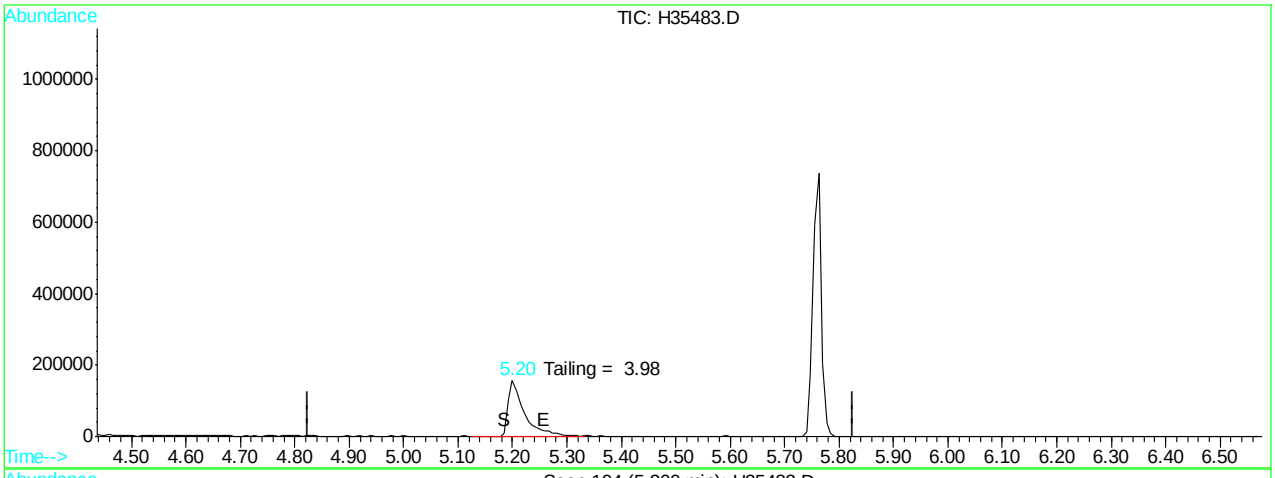
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.5	25242	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	63.0	39240	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.0	34233	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62272	PASS
199	198	5	9	7.3	4517	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

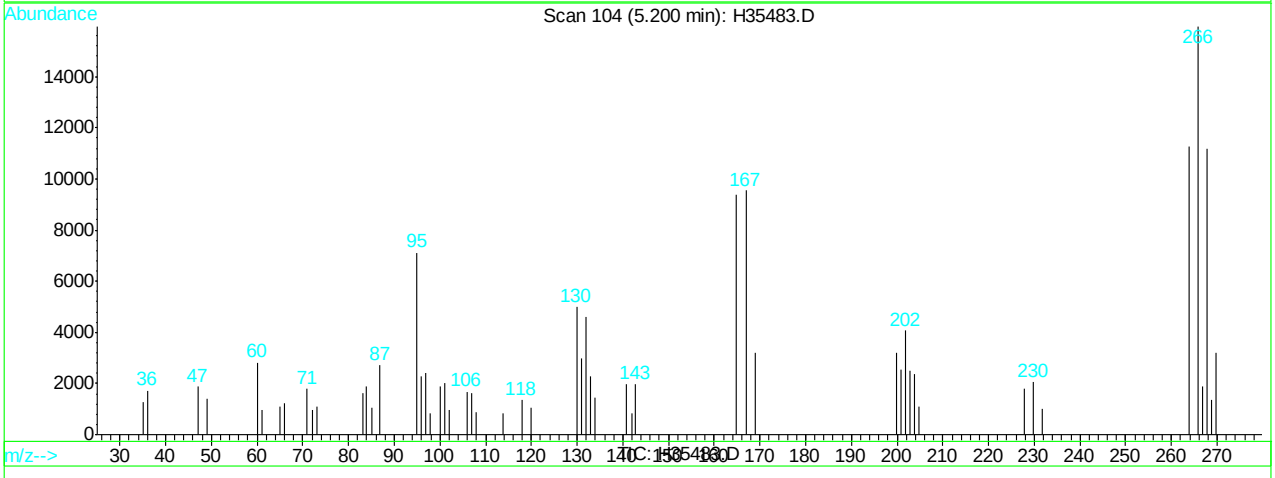
H35483.D DFTPP.M Tue Oct 20 10:43:46 2009

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

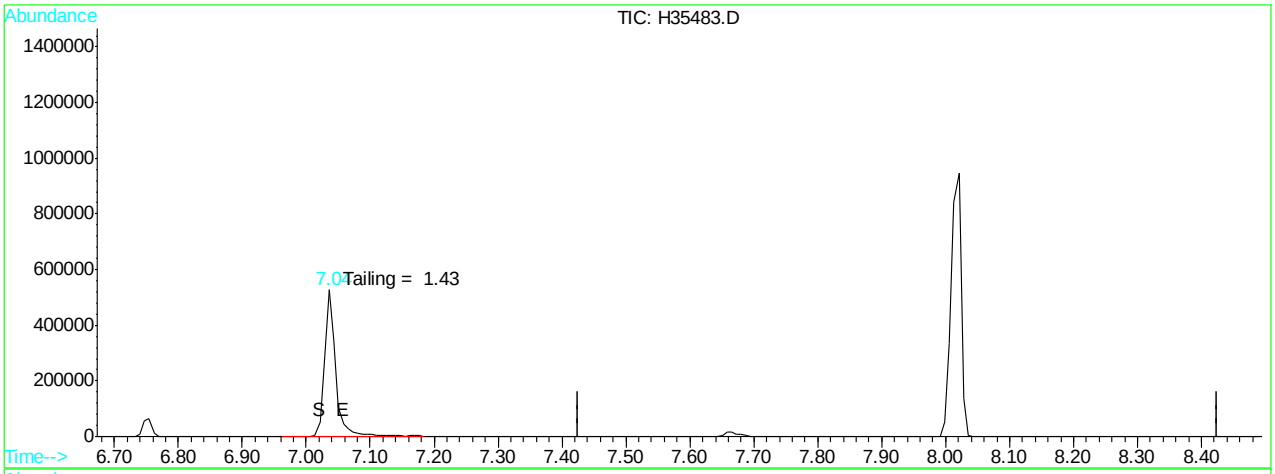
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

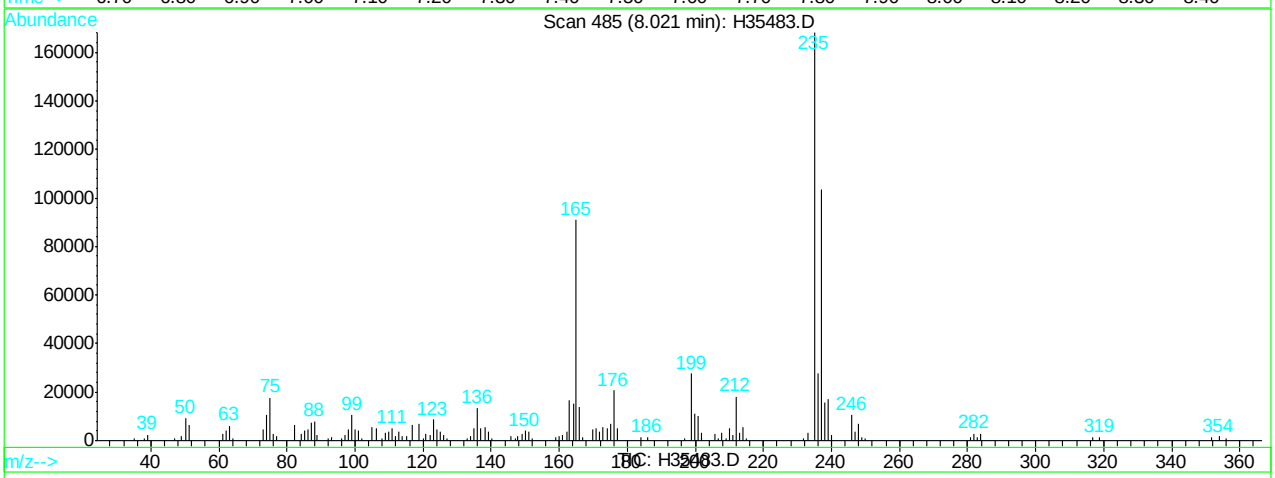
H35483.D DFTPP.M Tue Oct 20 10:44:15 2009

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

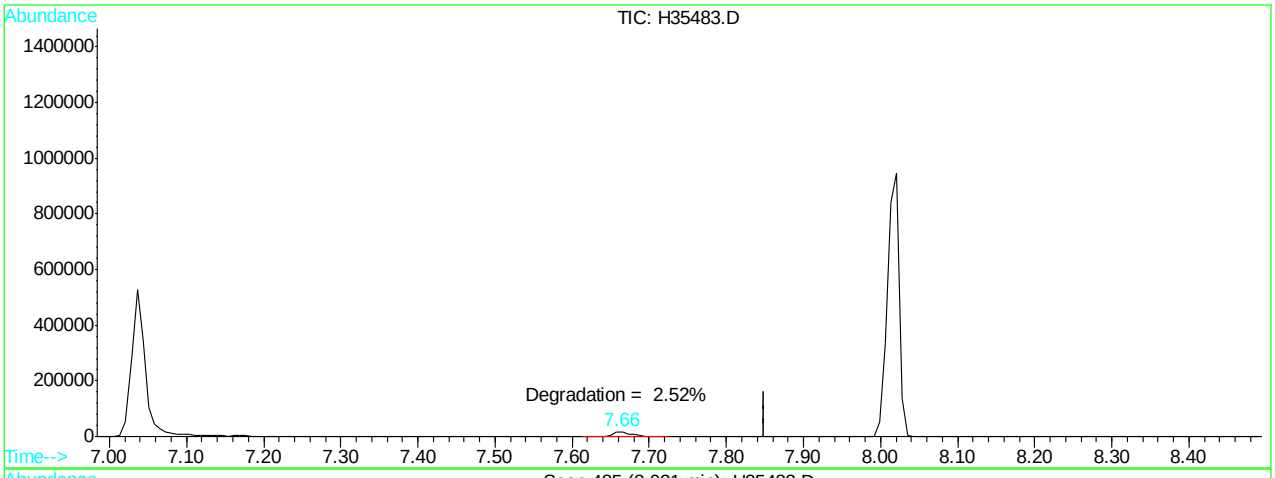
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

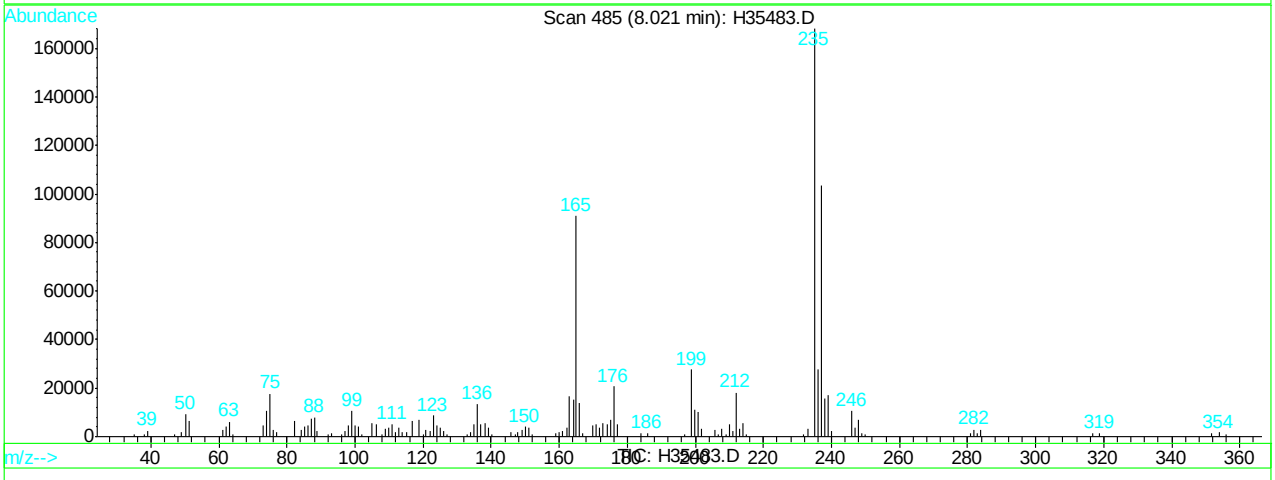
H35483.D DFTPP.M Tue Oct 20 10:44:24 2009

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

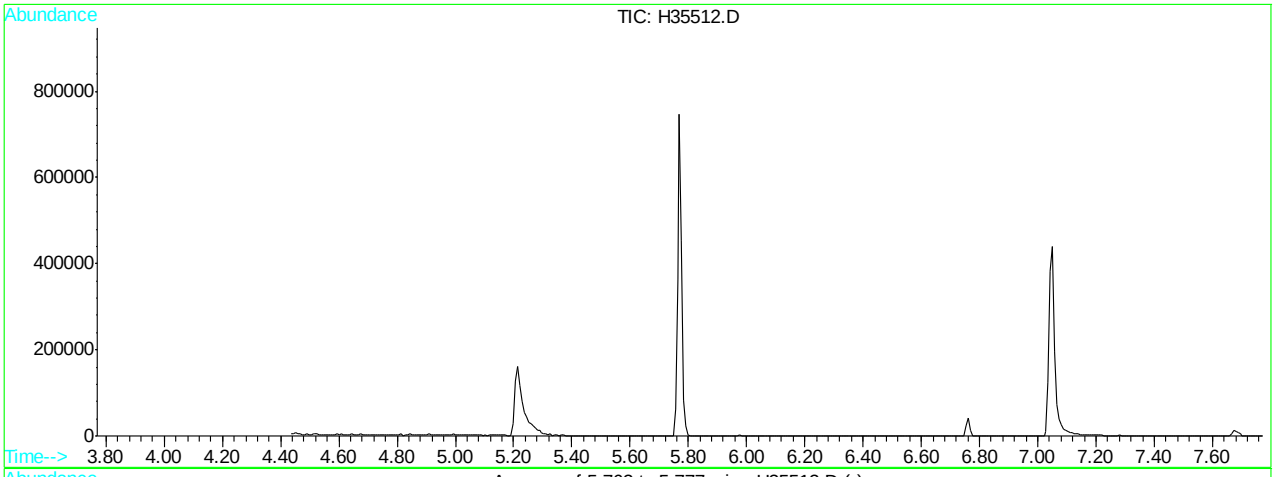
response 1030347

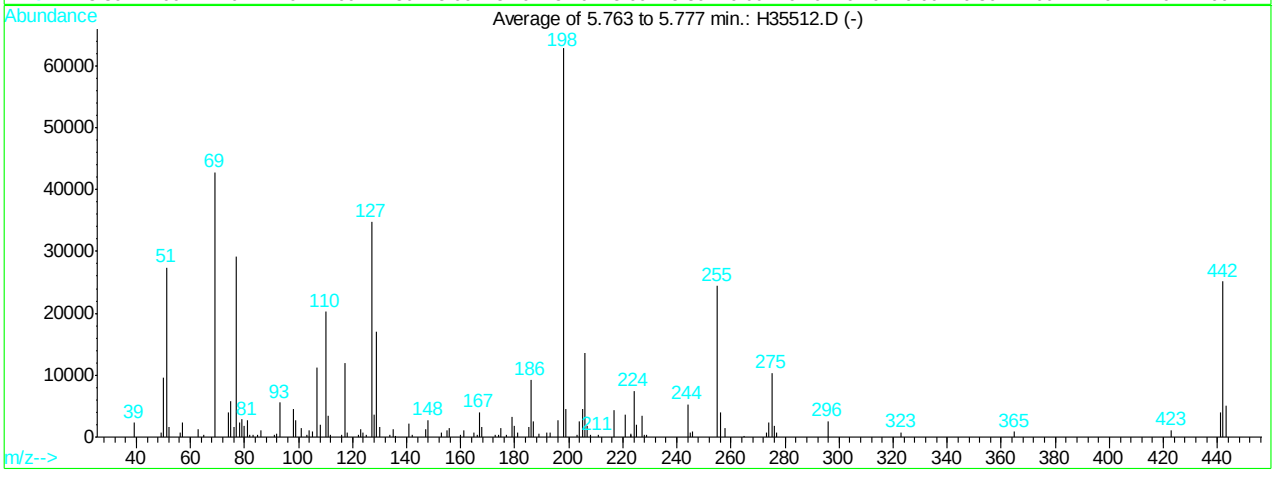
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

DFTPP

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S





AutoFind: Scans 180, 181, 182; Background Corrected with Scan 176

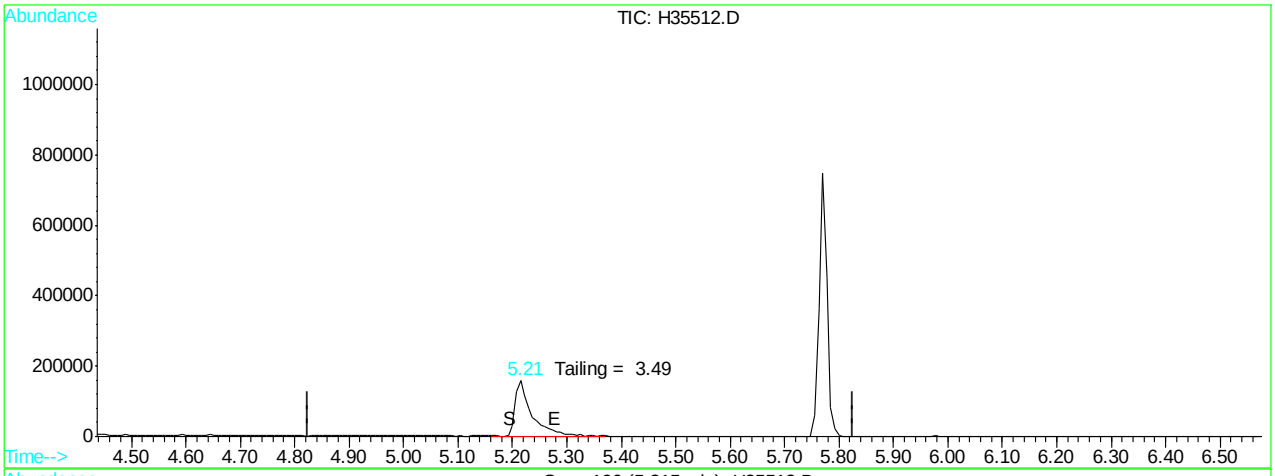
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.7	27424	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	68.1	42760	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.3	34749	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62797	PASS
199	198	5	9	7.1	4472	PASS
275	198	10	30	16.5	10382	PASS
365	198	1	100	1.4	872	PASS
441	443	0.01	100	79.6	4082	PASS
442	198	40	100	40.0	25149	PASS
443	442	17	23	20.4	5127	PASS

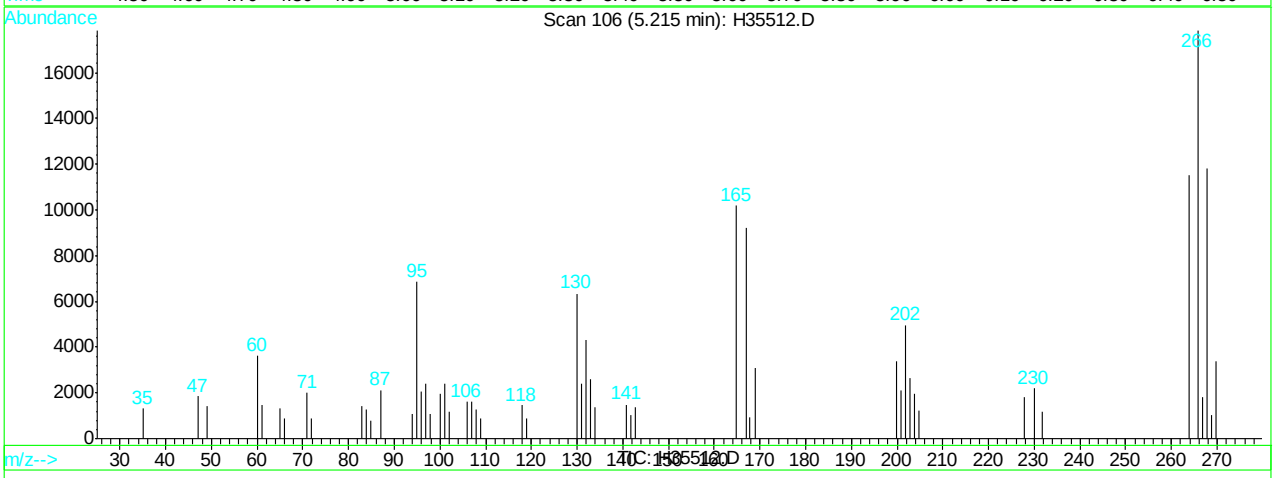
H35512.D DFTPP.M Wed Oct 21 10:55:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

response 342661

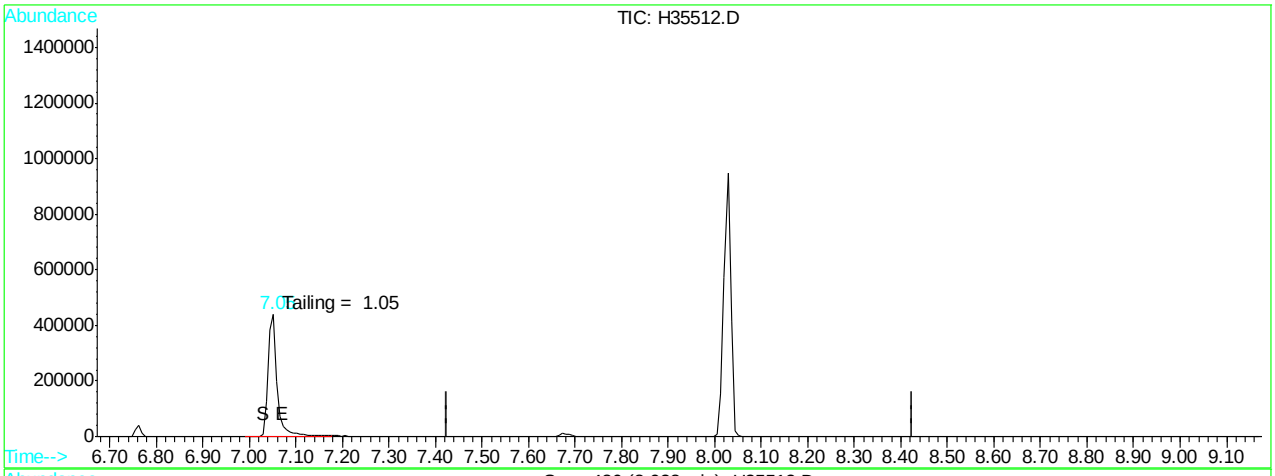
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

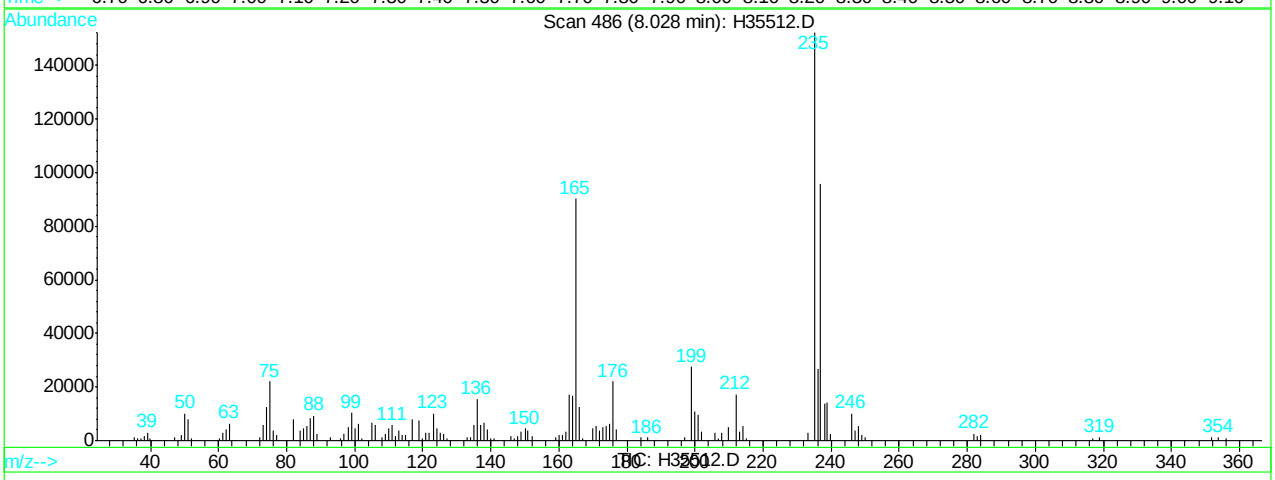
H35512.D DFTPP.M Wed Oct 21 10:55:37 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(3) Benzidine

8.03min 0.00

response 943744

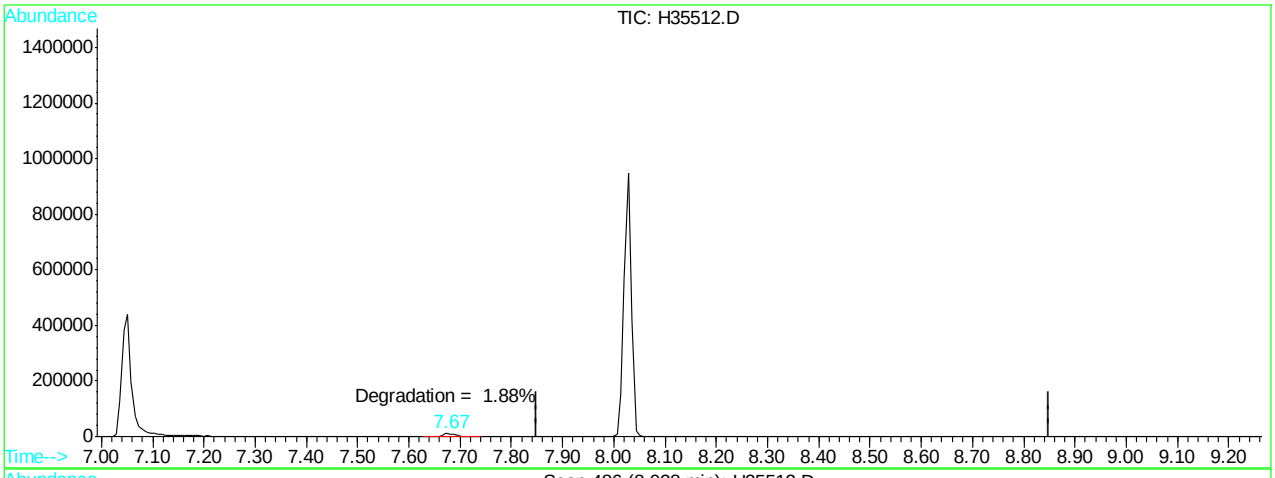
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

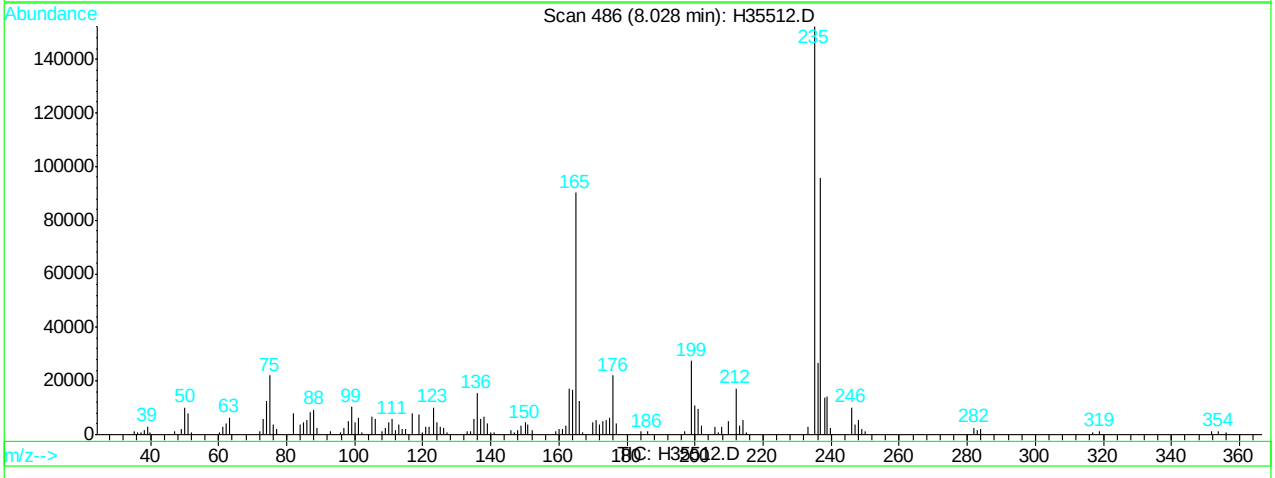
H35512.D DFTPP.M Wed Oct 21 10:55:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.03min 0.00

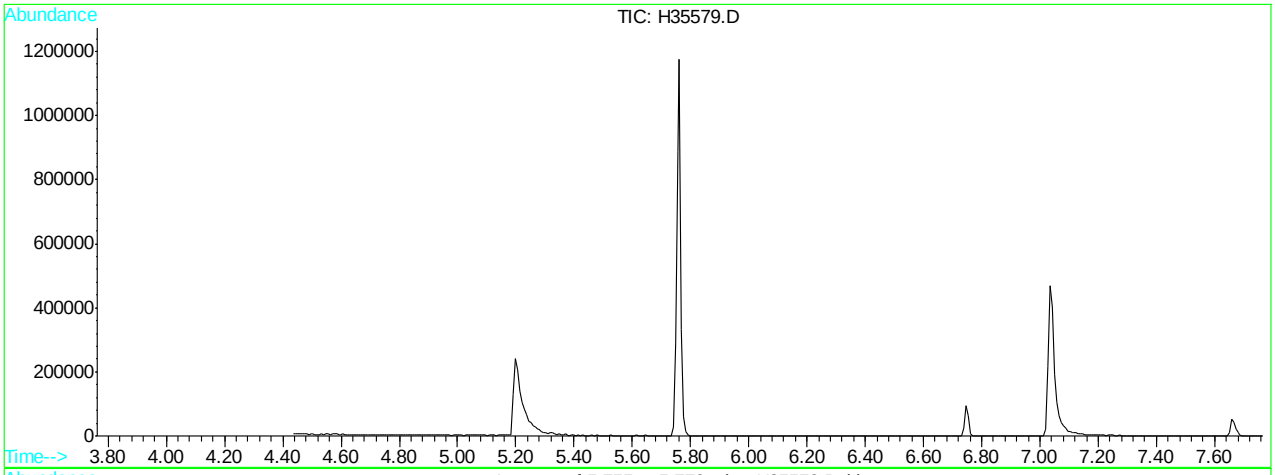
response 943744

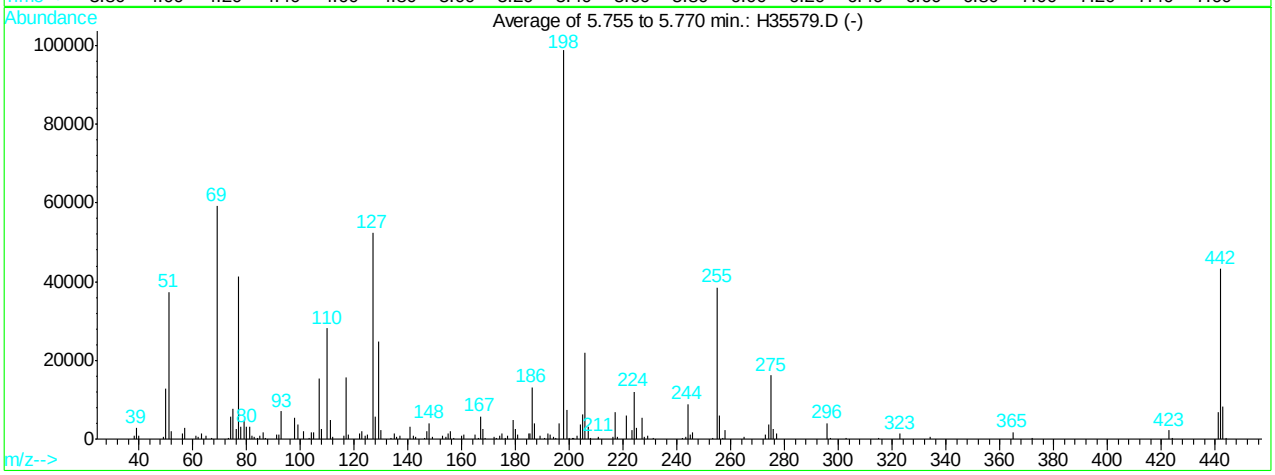
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H35512.D DFTPP.M Wed Oct 21 10:55:56 2009

DFTPP

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,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

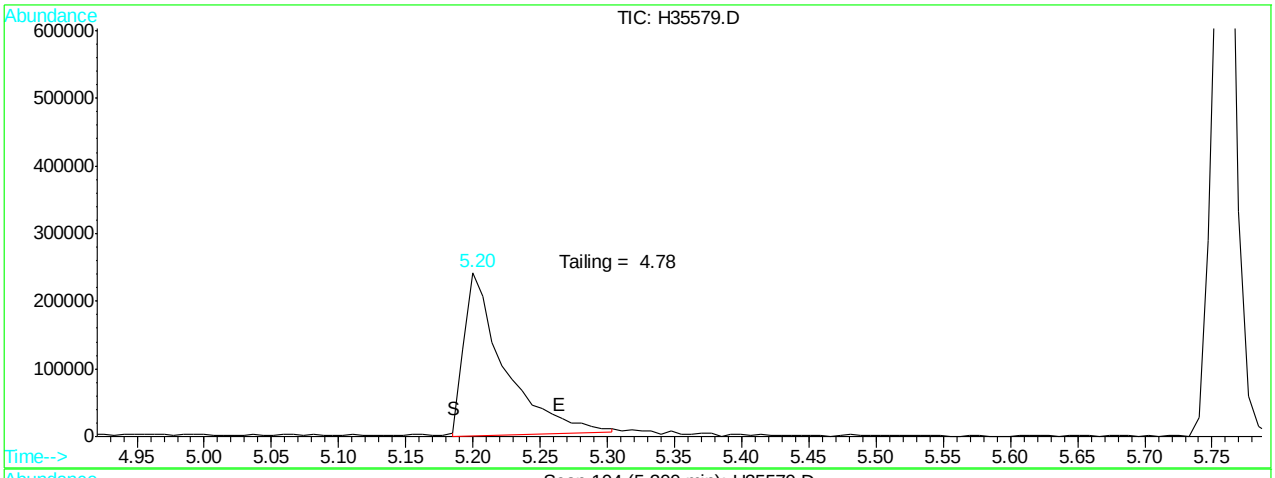
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	37381	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.9	59141	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.0	52288	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	98720	PASS
199	198	5	9	7.6	7541	PASS
275	198	10	30	16.4	16213	PASS
365	198	1	100	1.8	1790	PASS
441	443	0.01	100	80.6	6753	PASS
442	198	40	100	43.7	43176	PASS
443	442	17	23	19.4	8380	PASS

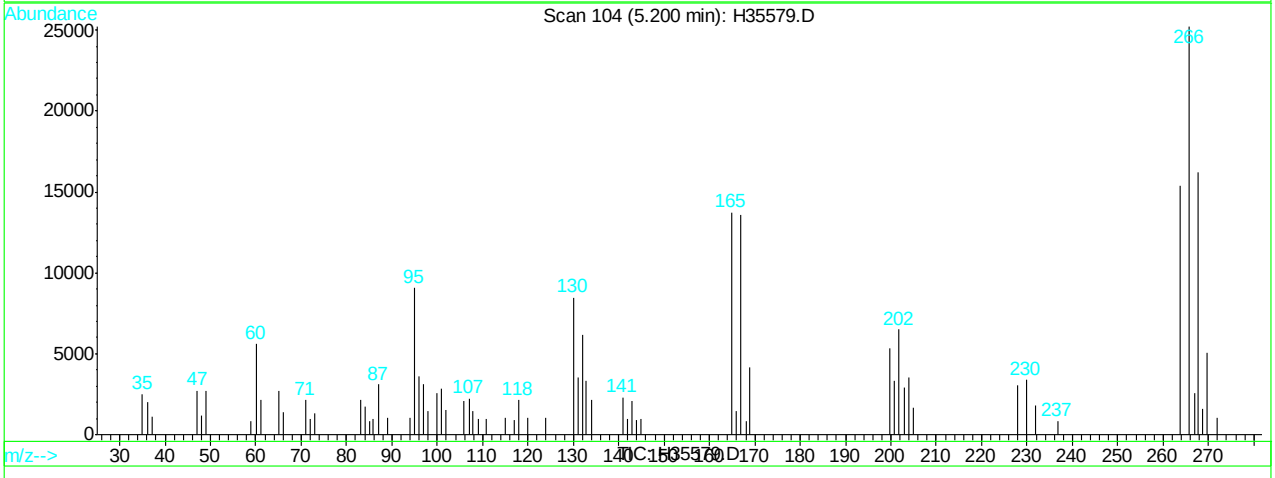
H35579.D DFTPP.M Fri Oct 23 16:43:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 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 m

response 513355

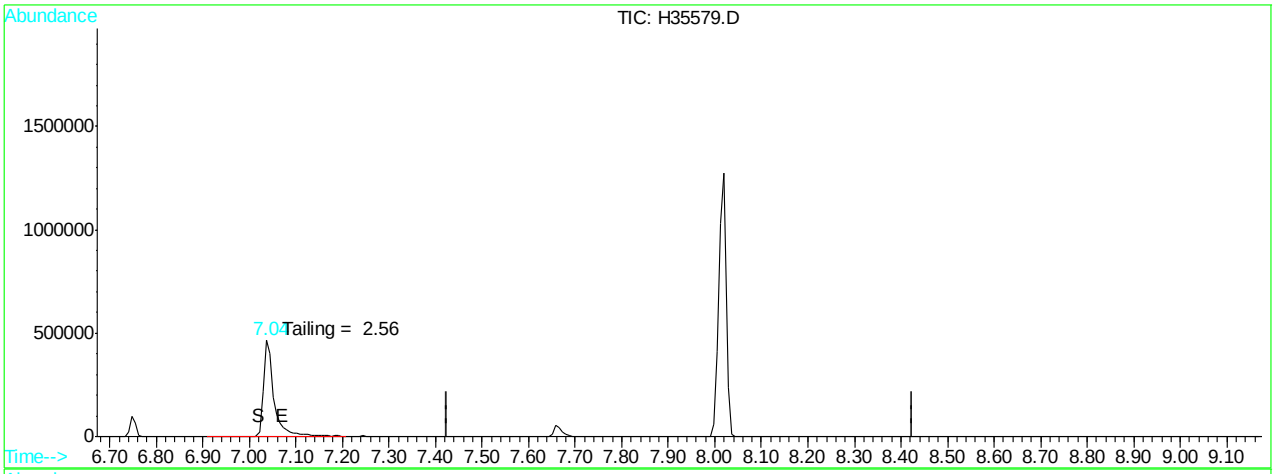
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

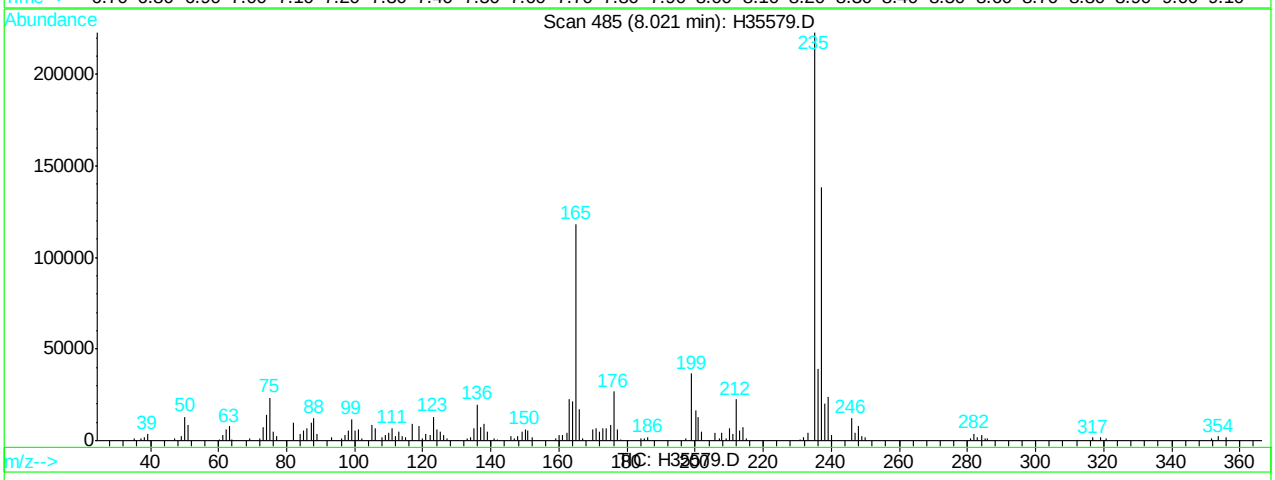
H35579.D DFTPP.M Fri Oct 23 16:44:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 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 1344226

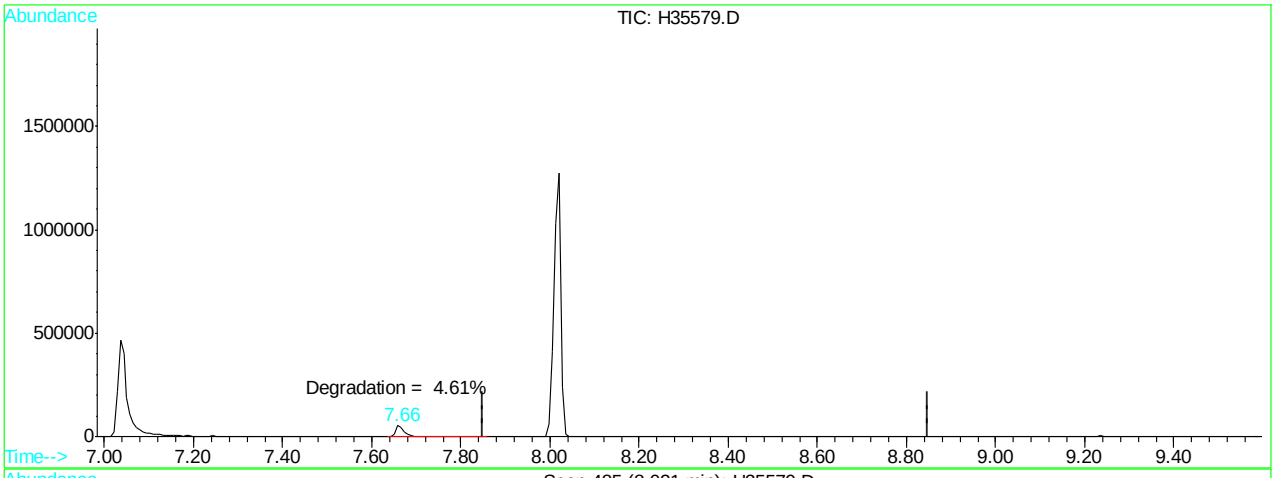
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

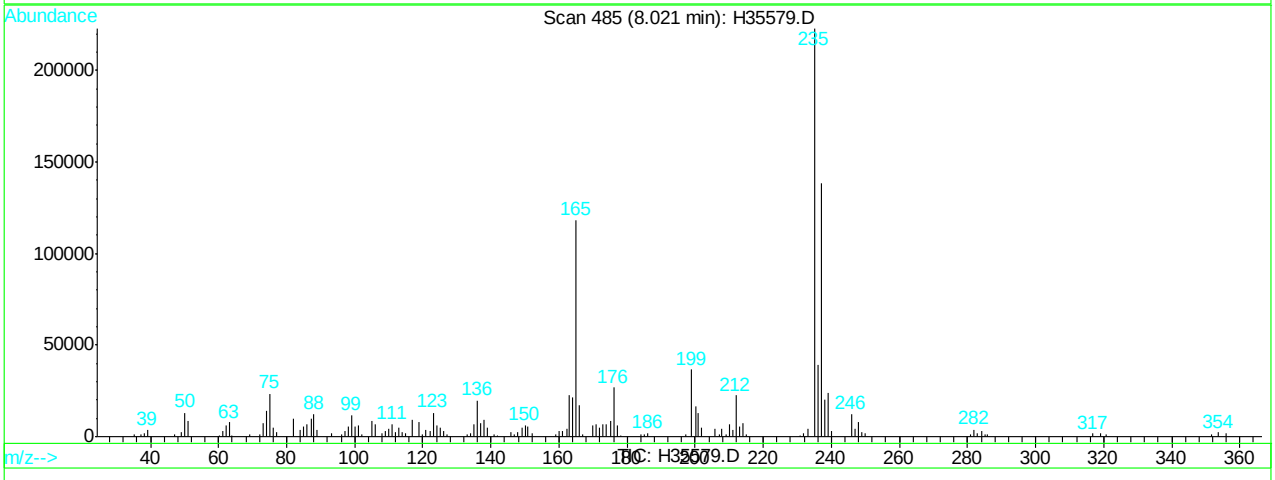
H35579.D DFTPP.M Fri Oct 23 16:44:26 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 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 1344226

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

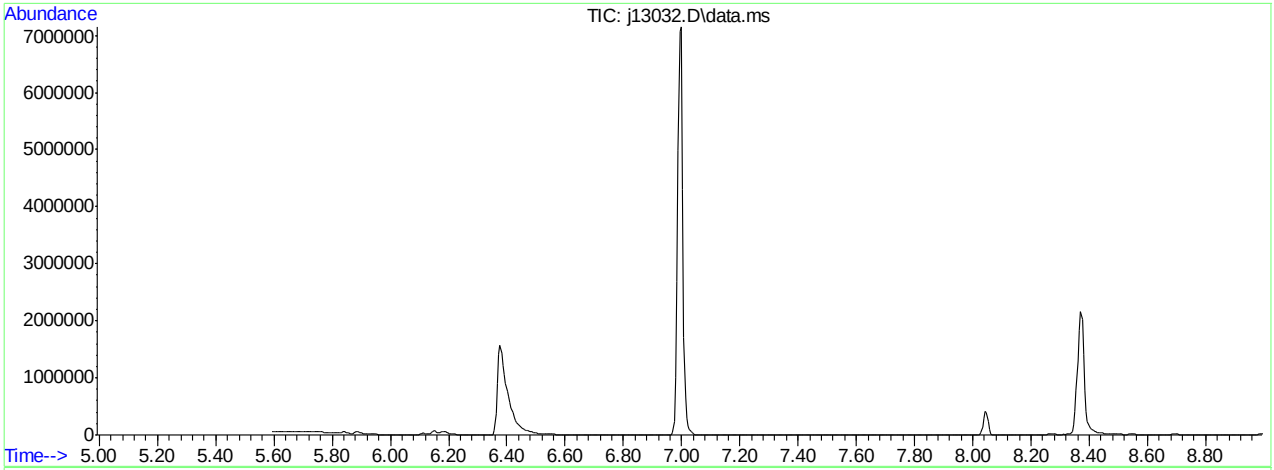
H35579.D DFTPP.M Fri Oct 23 16:44:35 2009

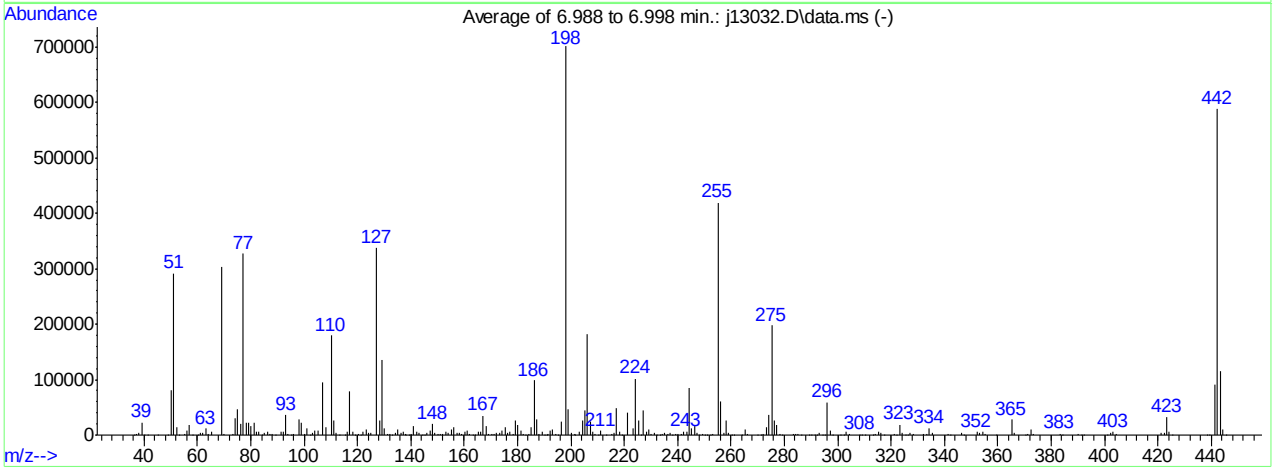
DFTPP

Data File : C:\msdchem\1\DATA\ej602\j13032.D
Acq On : 5 Sep 2009 11:25 am
Sample : dftpp
Misc : op10821,Ej602,1000,,,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 291, 292, 293; Background Corrected with Scan 284

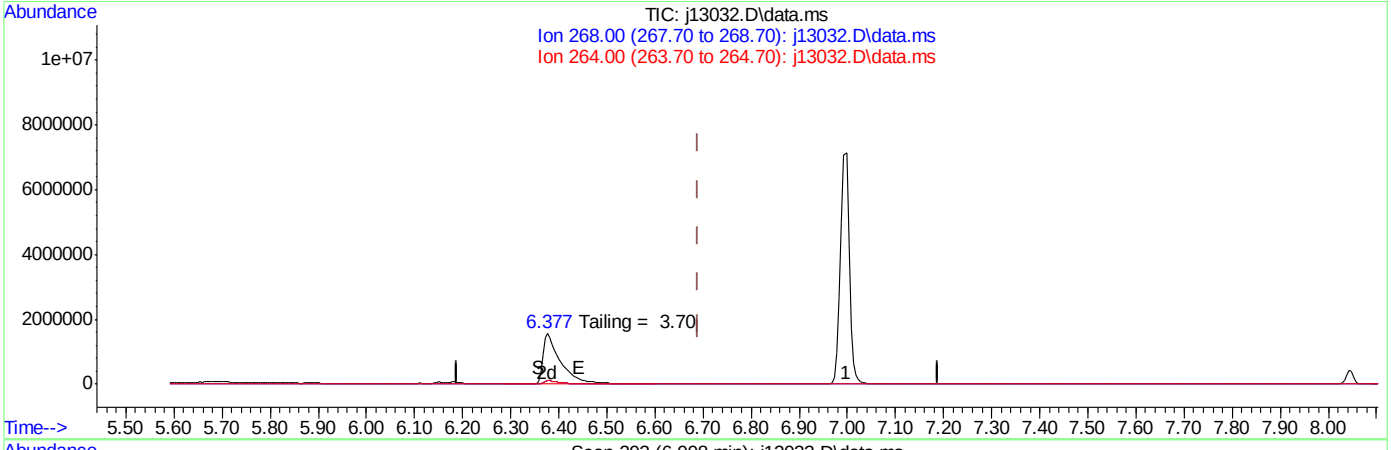
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	291136	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.4	304021	PASS
70	69	0.00	2	0.5	1668	PASS
127	198	40	60	48.2	337515	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	700800	PASS
199	198	5	9	6.8	47371	PASS
275	198	10	30	28.1	197269	PASS
365	198	1	100	4.0	27963	PASS
441	443	0.01	100	79.1	91285	PASS
442	198	40	100	83.9	588032	PASS
443	442	17	23	19.6	115421	PASS

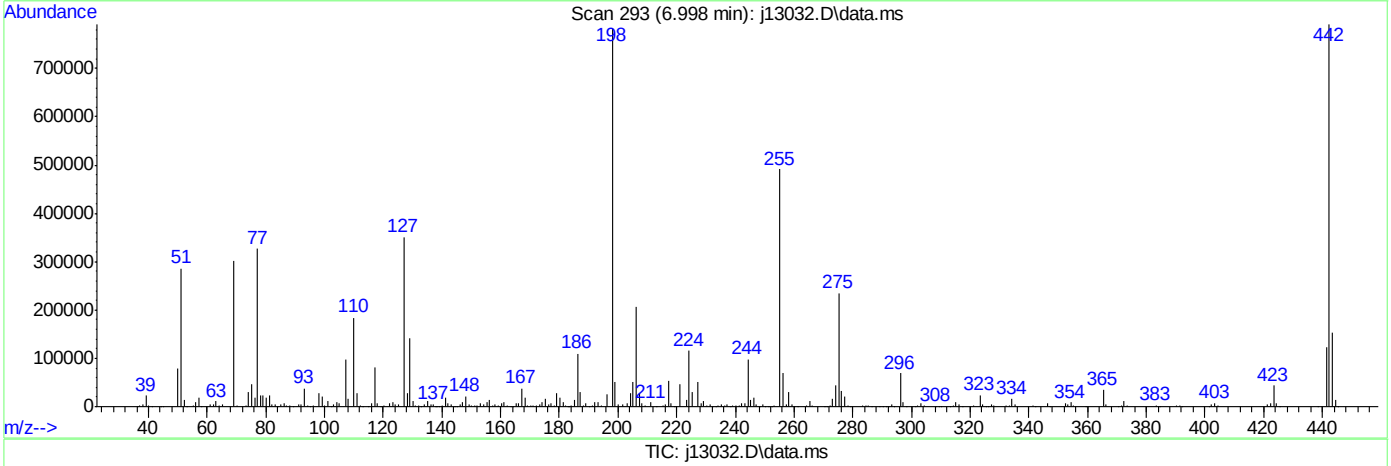
j13032.D dftpp.m Sat Sep 05 11:32:26 2009

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\ej602\Snapshot\
Data File : j13032.D
Acq On : 5 Sep 2009 11:25 am
Operator : sheilac
Sample : dftpp
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:31:37 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Thu Aug 27 09:40:51 2009
Response via : Initial Calibration





TIC: j13032.D\data.ms

(1) Pentachlorophenol

6.998min (+0.308) 0.00

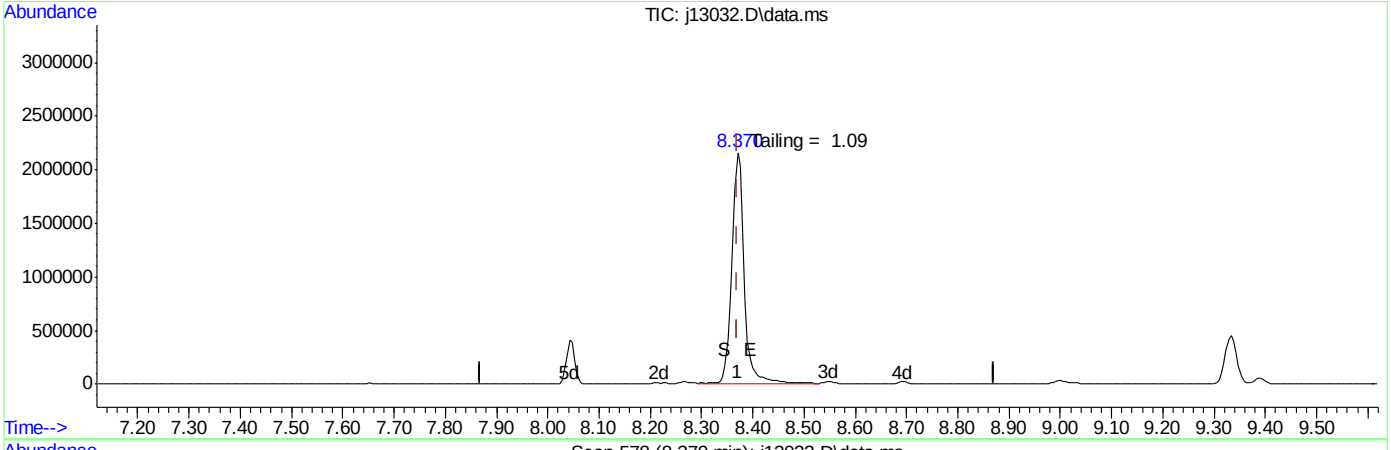
response 8796953

Signal	Exp%	Act%
TIC	100	100
268.00	778.10	0.00#
264.00	773.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13032.D
Acq On    :  5 Sep 2009  11:25 am
Operator  : sheilac
Sample    : dftpp
Misc      : op10821,Ej602,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 05 11:32:39 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Sat Sep 05 11:32:04 2009
Response via : Initial Calibration
```



(3) Benzidine

8.370min (0.000) 0.00

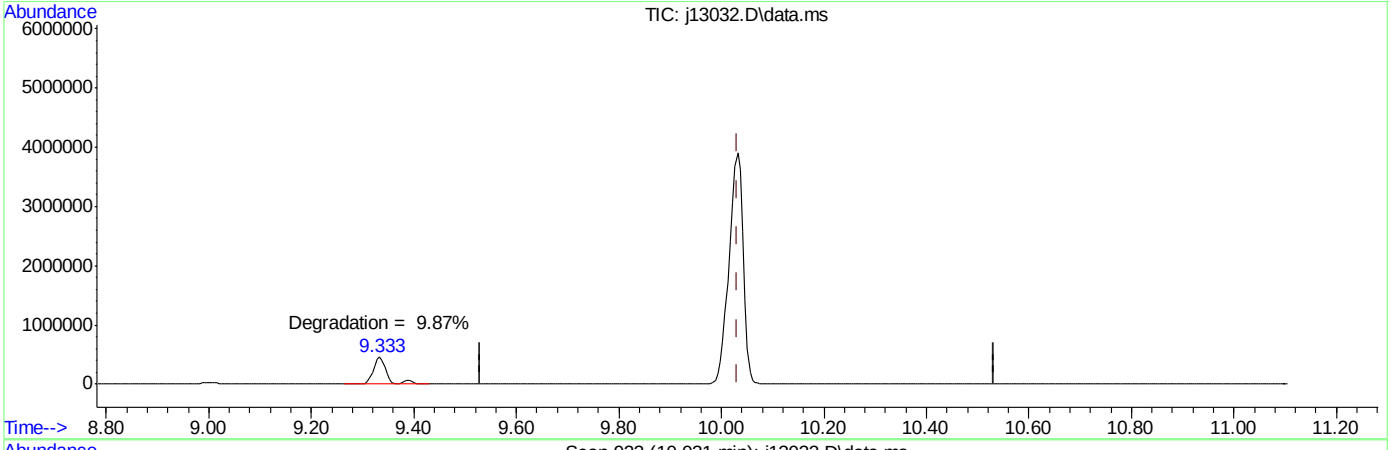
response 3552730

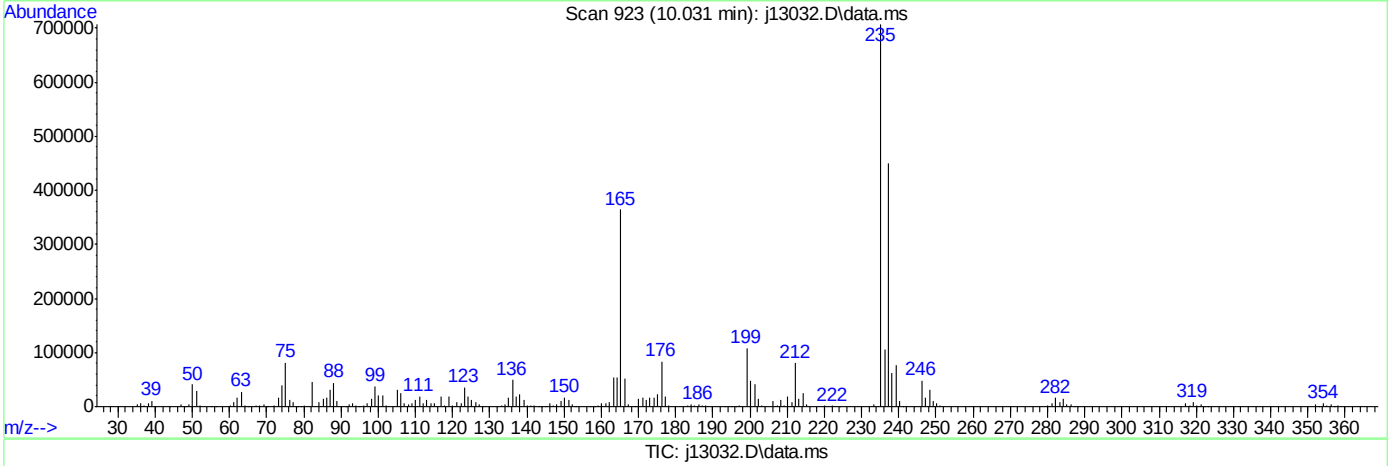
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13032.D
Acq On    :  5 Sep 2009  11:25 am
Operator  : sheilac
Sample    : dftpp
Misc      : op10821,Ej602,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 05 11:32:39 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Sat Sep 05 11:32:04 2009
Response via : Initial Calibration
```





TIC: j13032.D\data.ms

(4) DDT

10.031min (0.000) 0.00

response 7486030

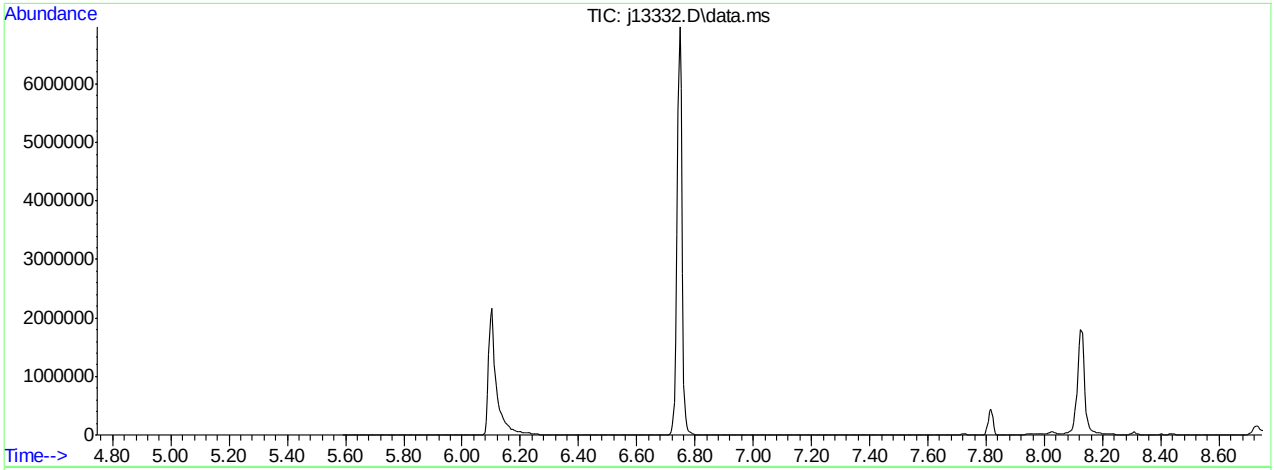
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

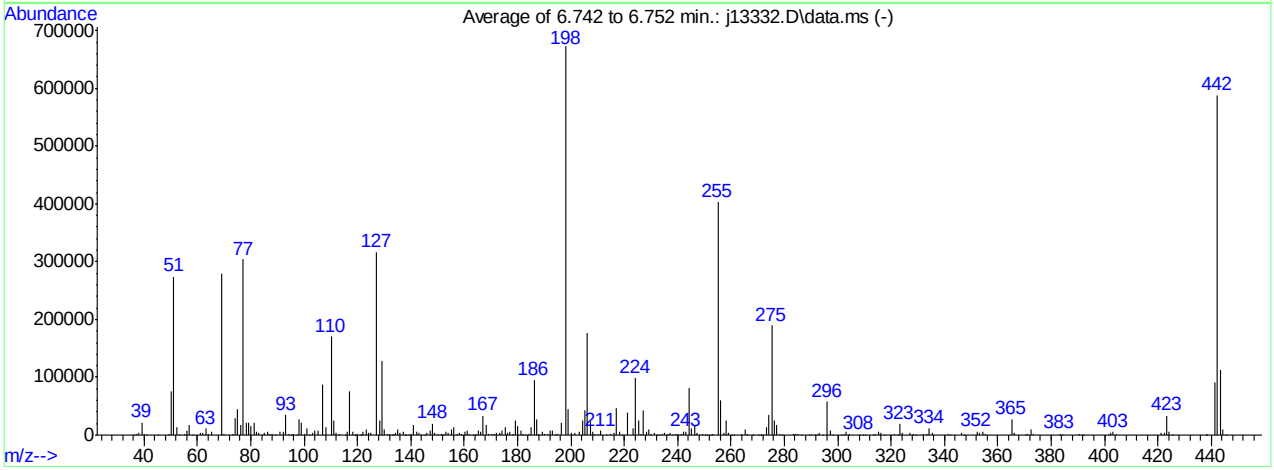
DFTPP

Data File : C:\msdchem\1\DATA\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

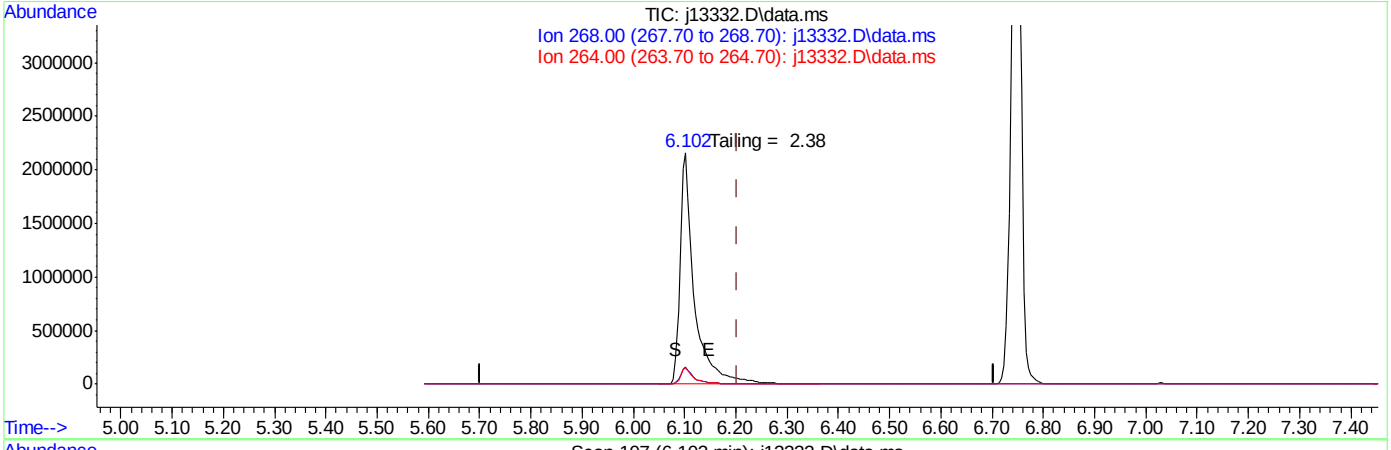
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	273877	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.5	279189	PASS
70	69	0.00	2	0.5	1498	PASS
127	198	40	60	47.0	316309	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	672661	PASS
199	198	5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

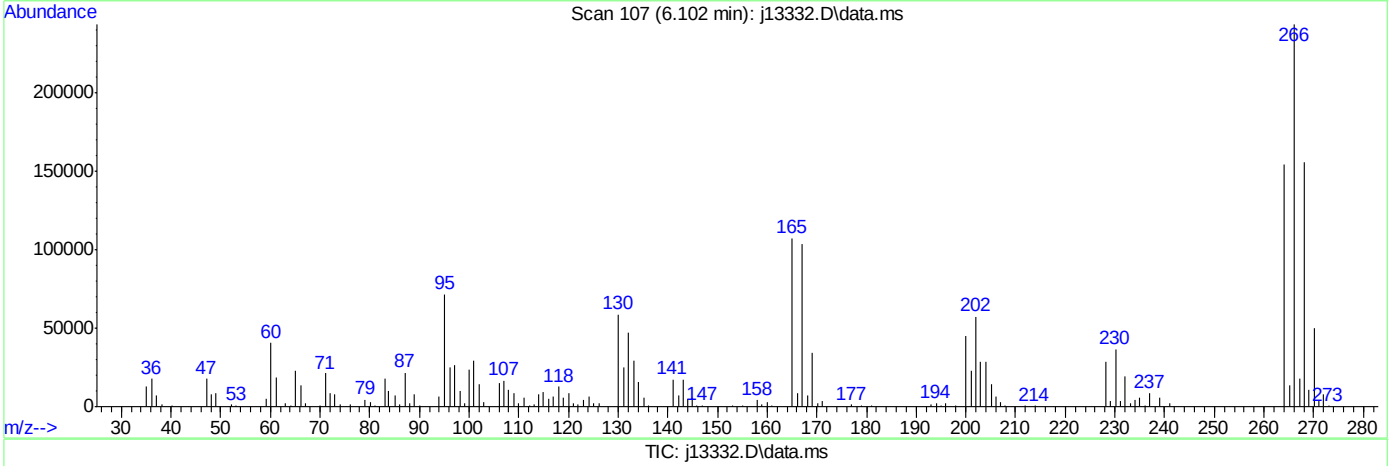
j13332.D dftpp.m Wed Sep 23 15:20:32 2009

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

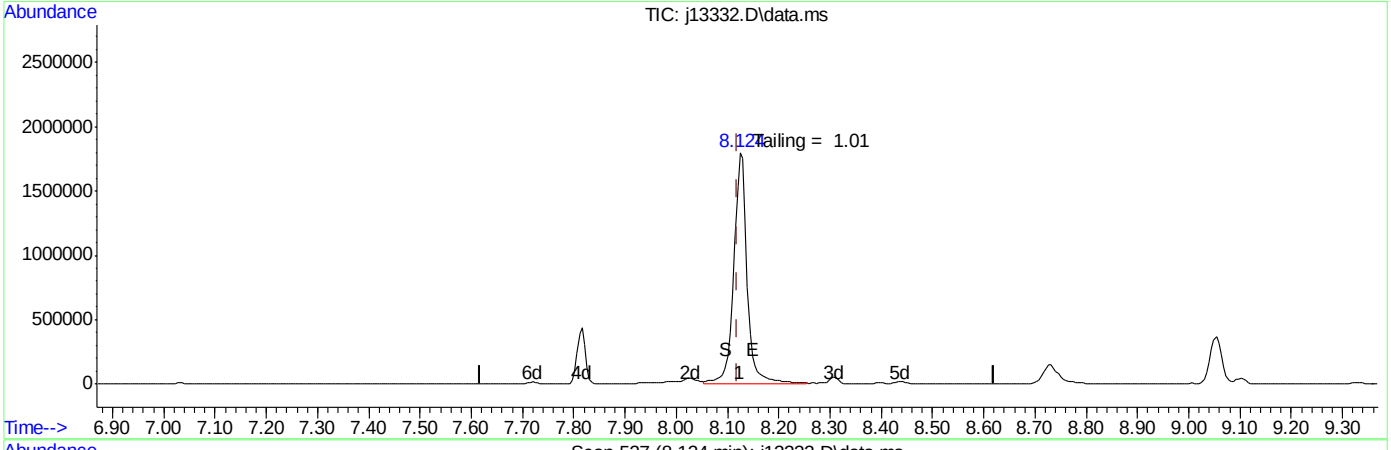
response 4154366

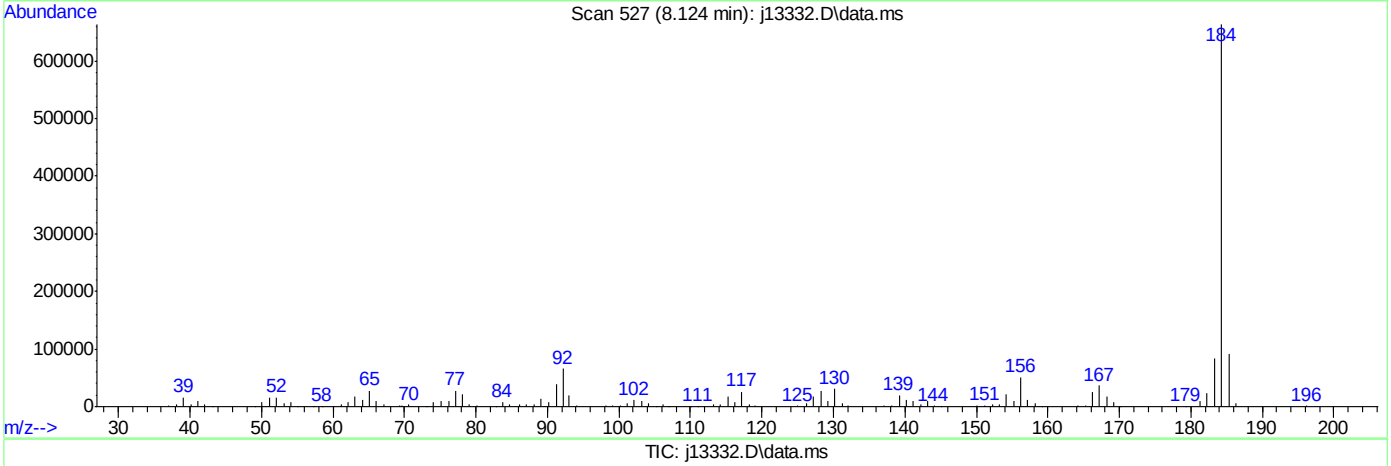
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.36#
264.00	697.70	7.20#
0.00	0.00	0.00

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

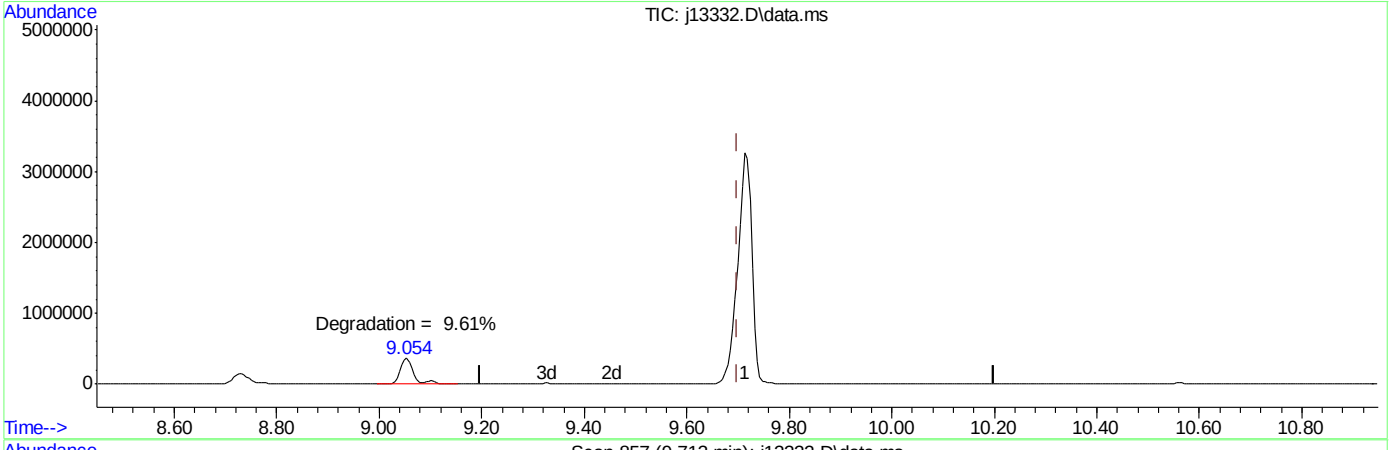
response 3263174

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

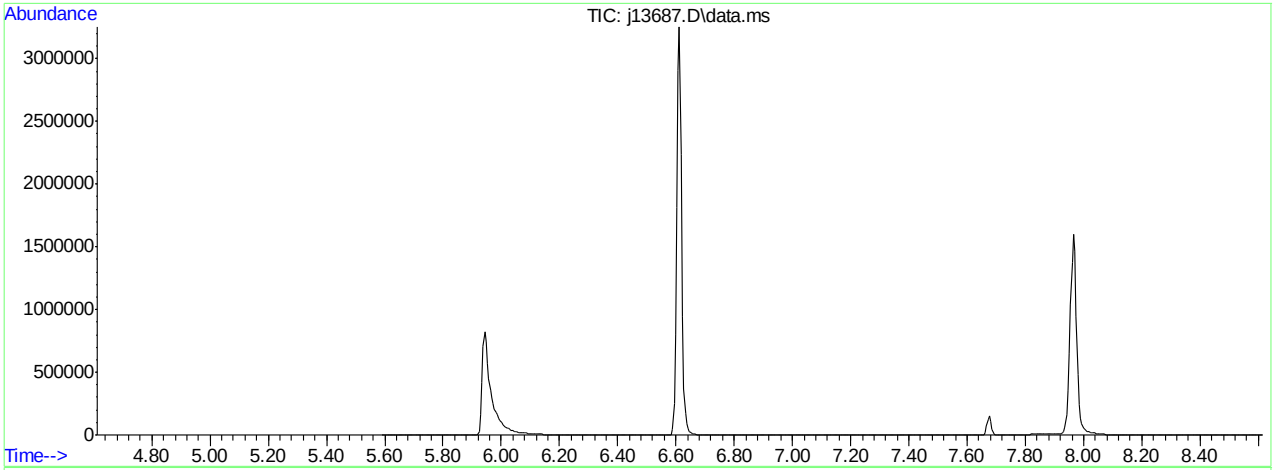
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

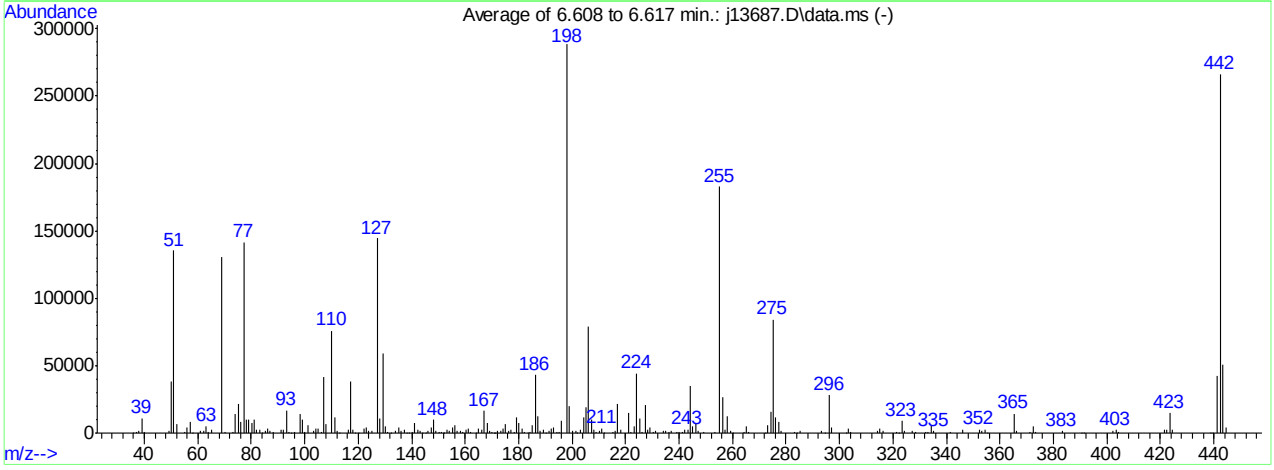
DFTPP

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

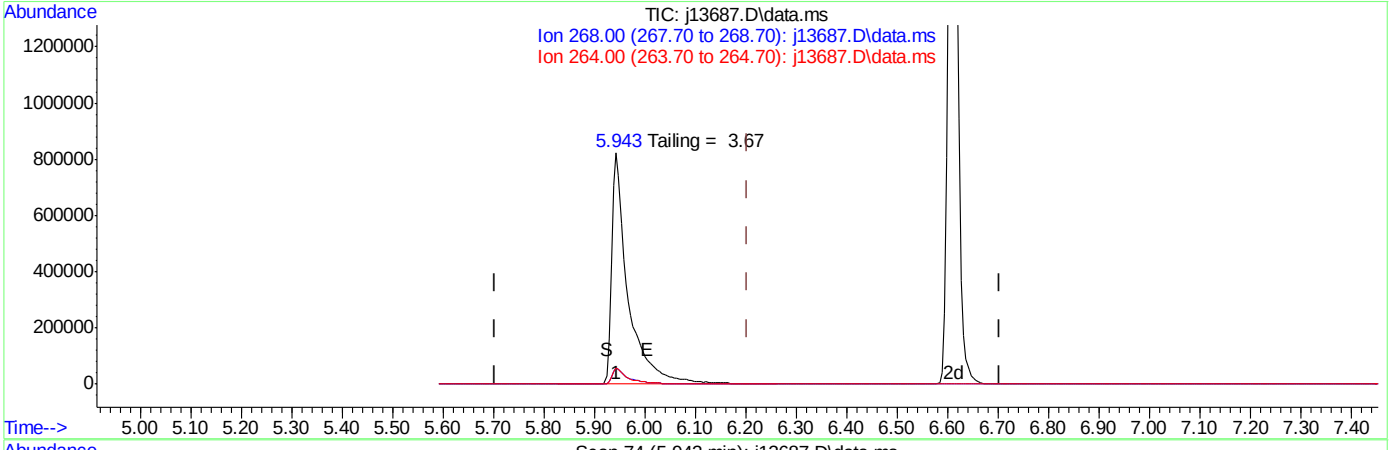
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	135432	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.2	130341	PASS
70	69	0.00	2	0.4	563	PASS
127	198	40	60	50.1	144448	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	288299	PASS
199	198	5	9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

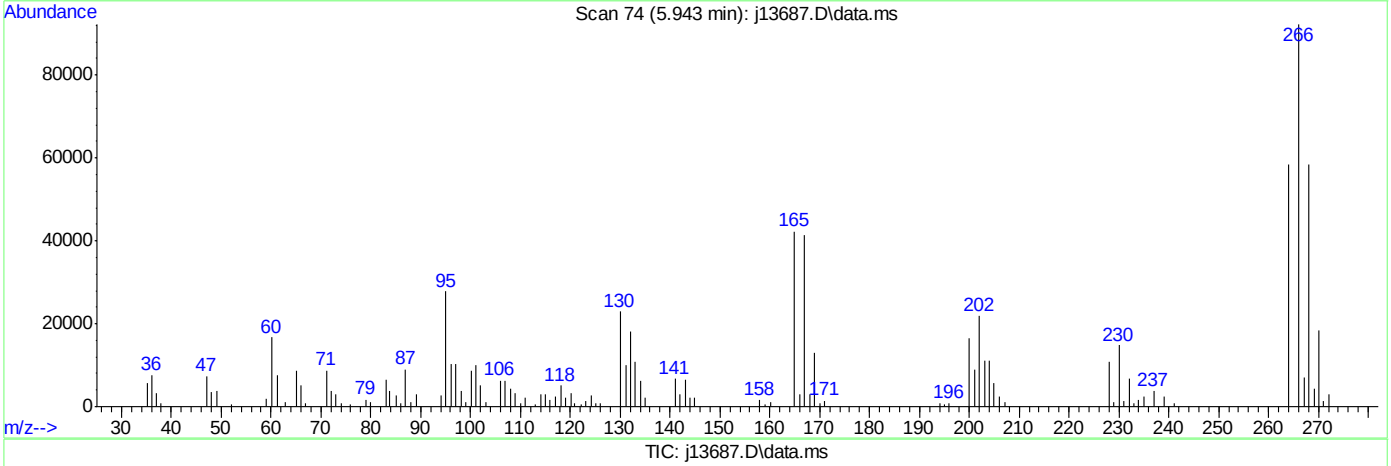
j13687.D dftpp.m Thu Oct 08 10:46:06 2009

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

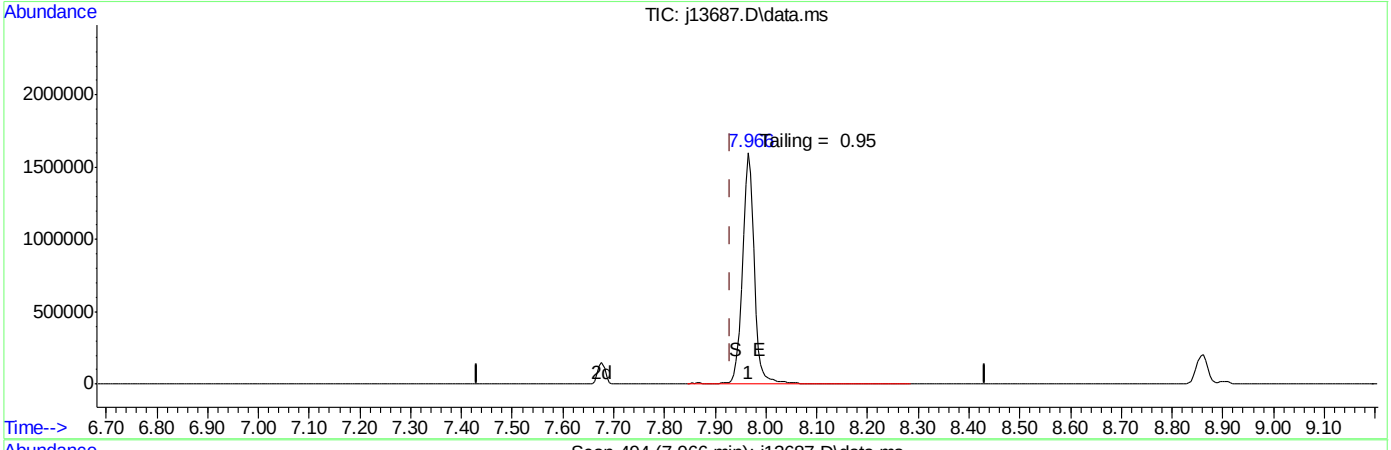
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.51#
264.00	697.70	7.44#
0.00	0.00	0.00

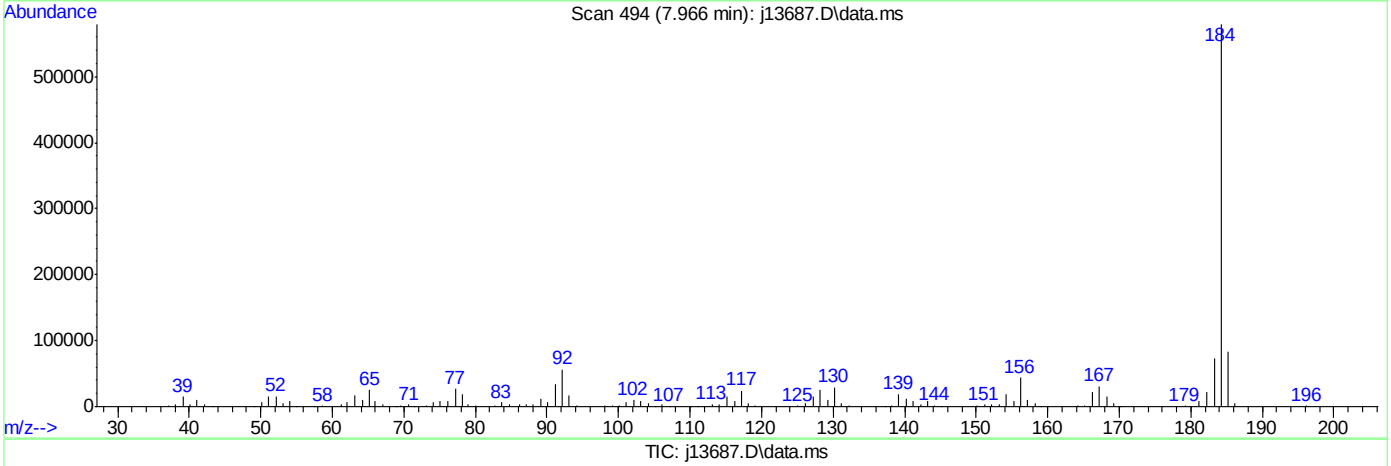
ACCUTEST Laboratories

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

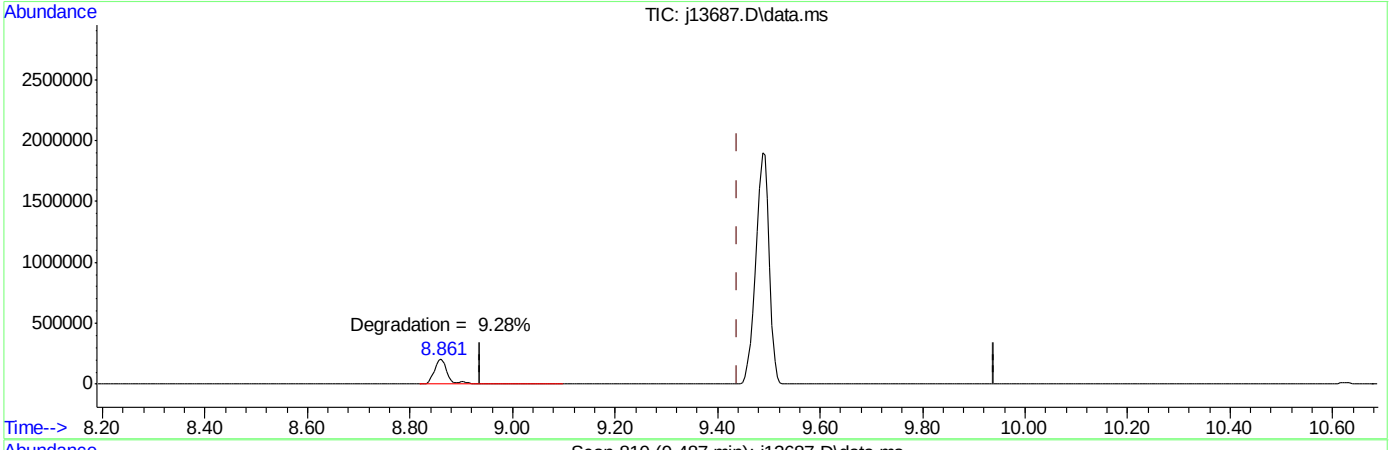
response 2598513

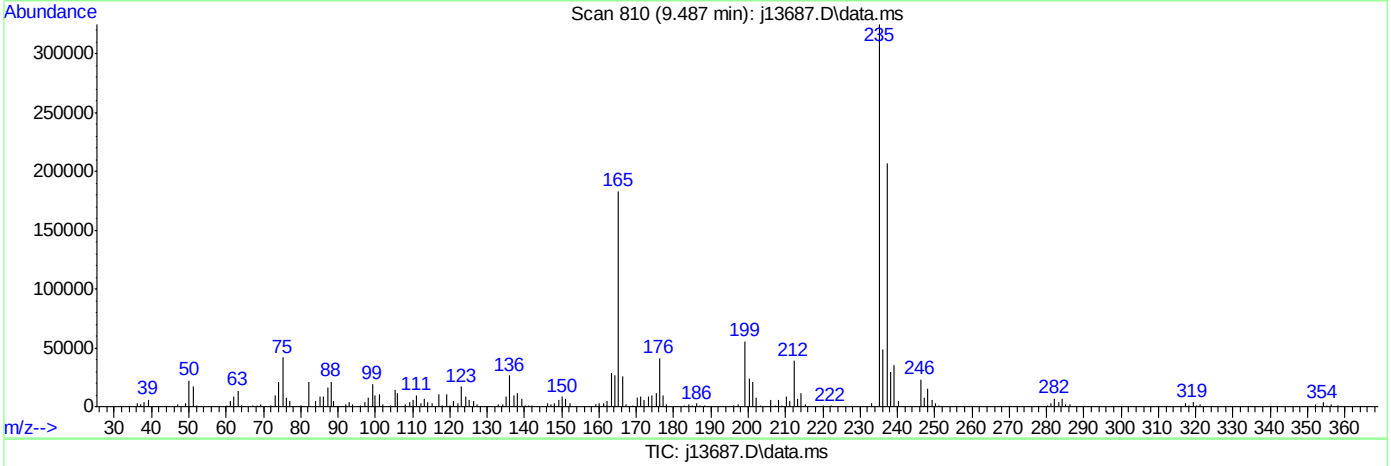
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

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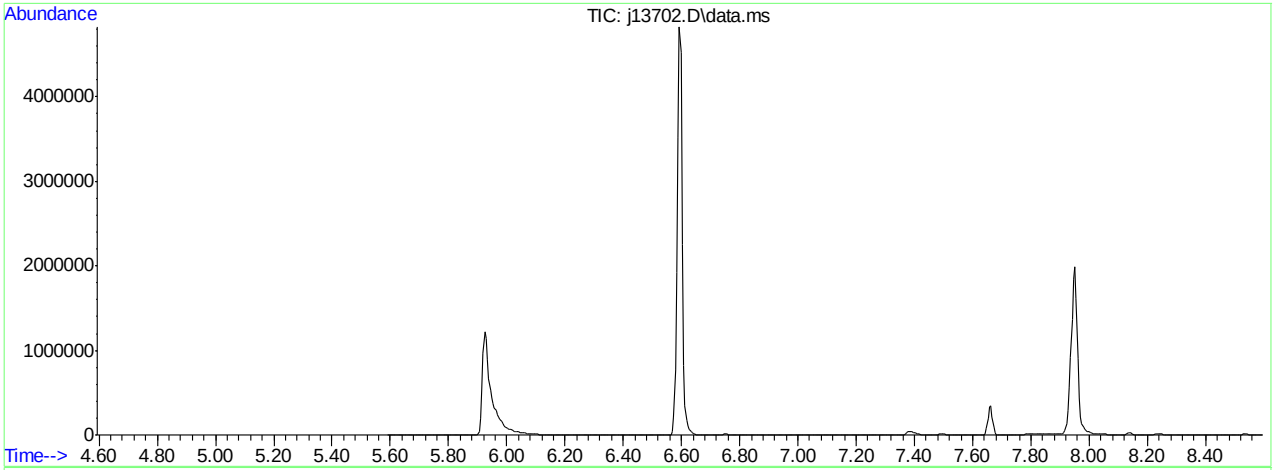
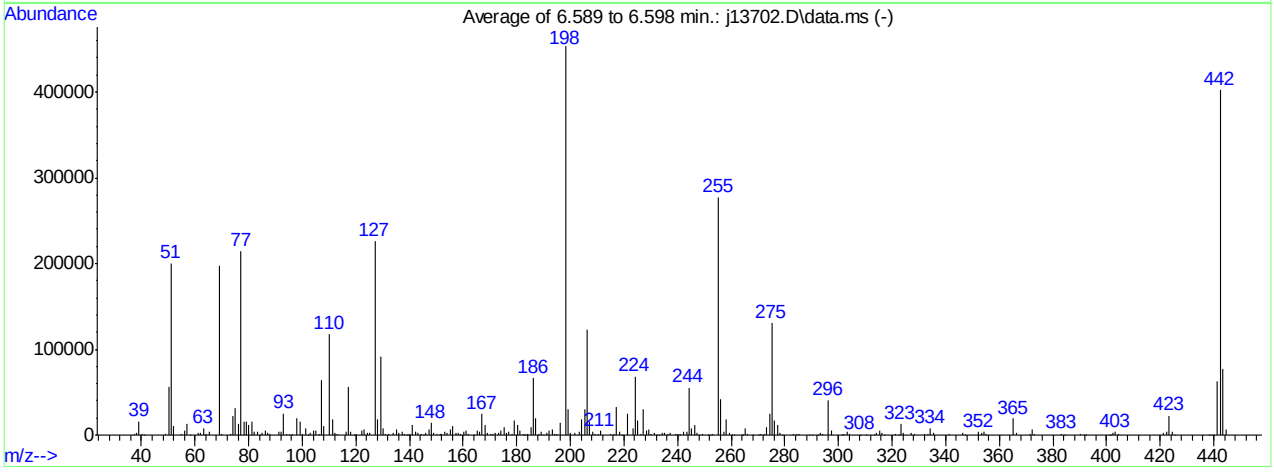
DFTPP

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

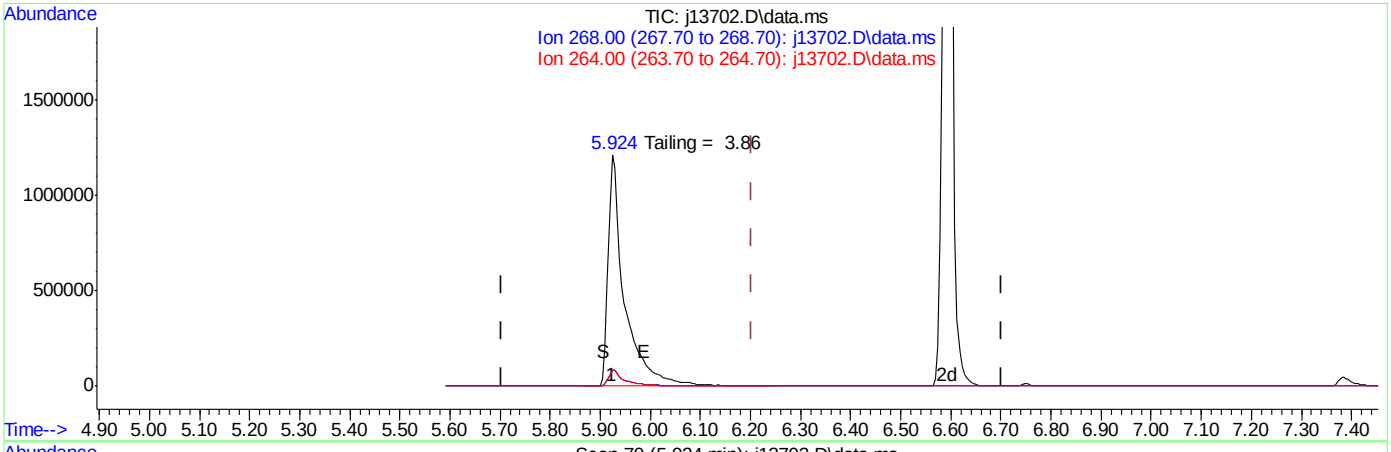
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.2	200192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.6	197781	PASS
70	69	0.00	2	0.6	1157	PASS
127	198	40	60	50.0	226389	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	453163	PASS
199	198	5	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

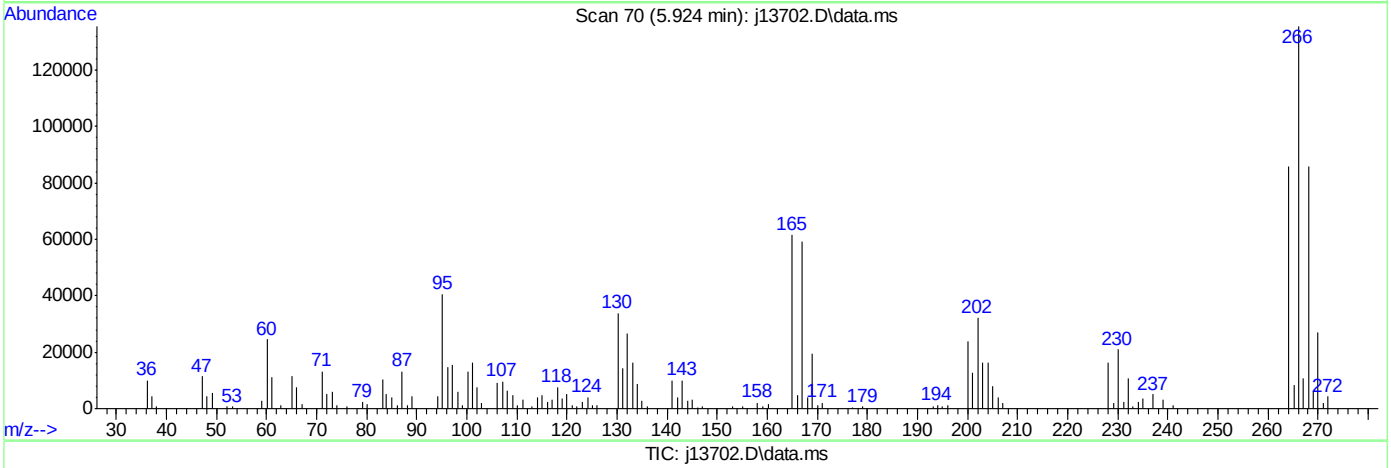
j13702.D dftpp.m Thu Oct 08 19:20:32 2009

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

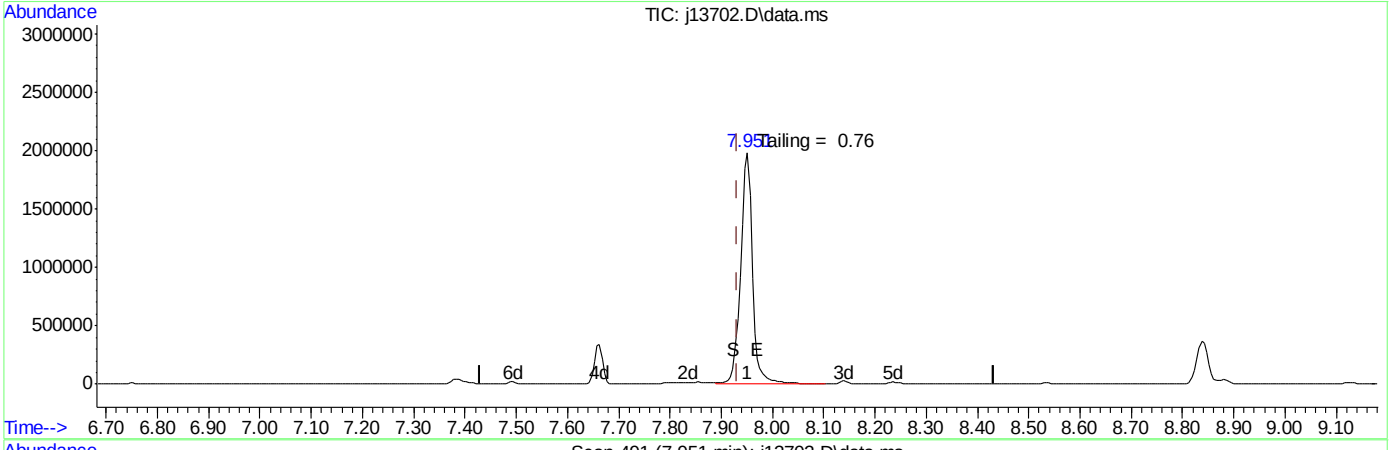
response 2740294

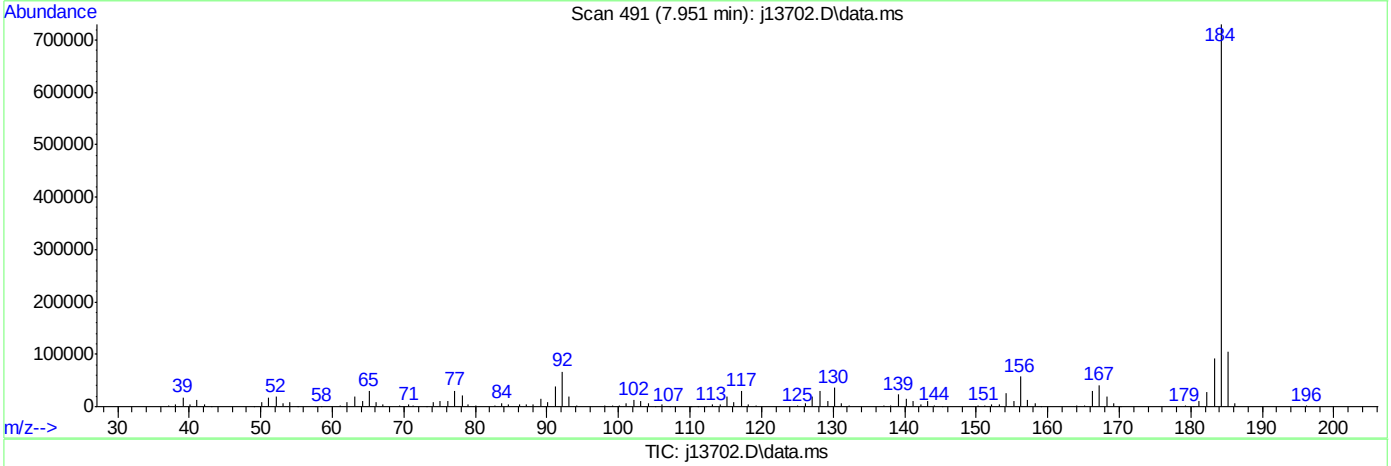
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.40#
264.00	697.70	7.24#
0.00	0.00	0.00

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

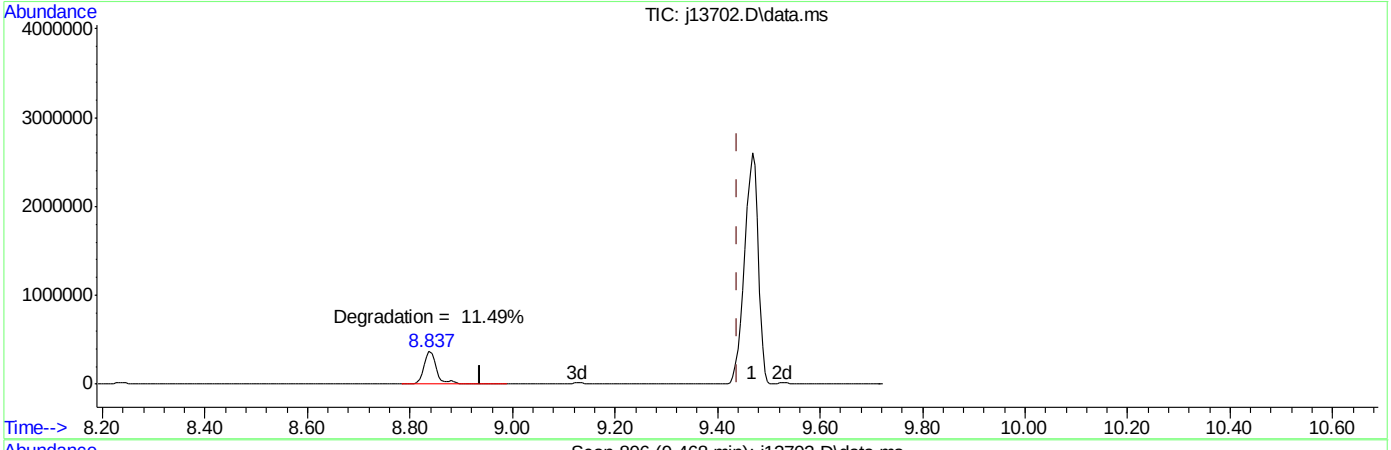
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST Laboratories

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

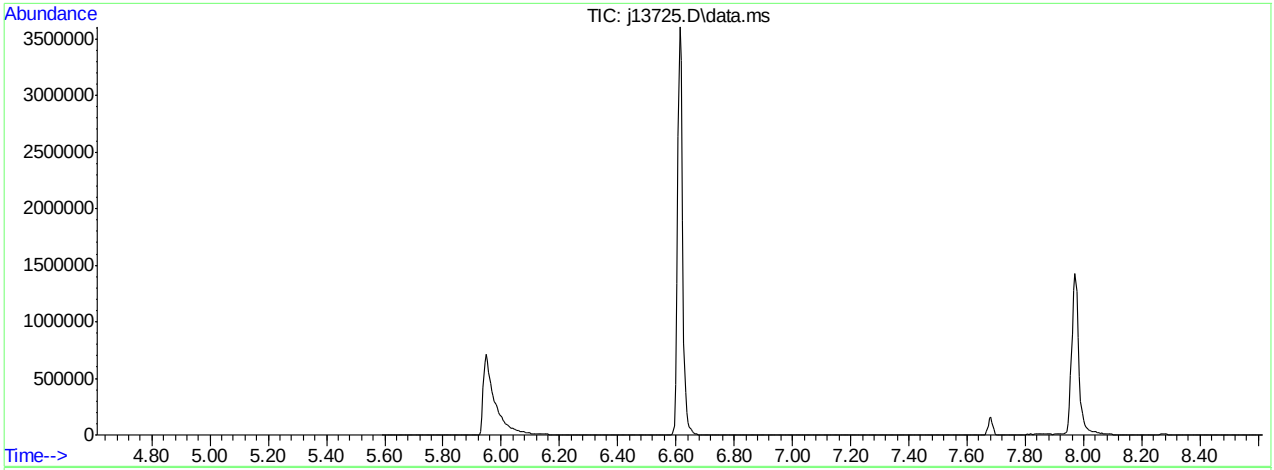
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

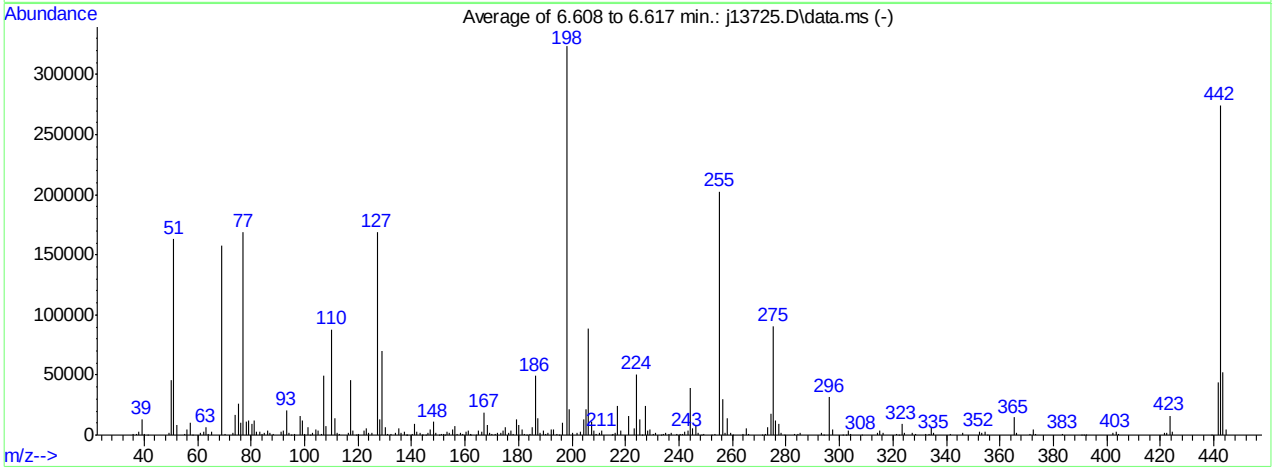
DFTPP

Data File : C:\msdchem\1\DATA\ej631\j13725.D
Acq On : 9 Oct 2009 9:13 am
Sample : dftpp
Misc : op12949,Ej631,1000,,,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 205

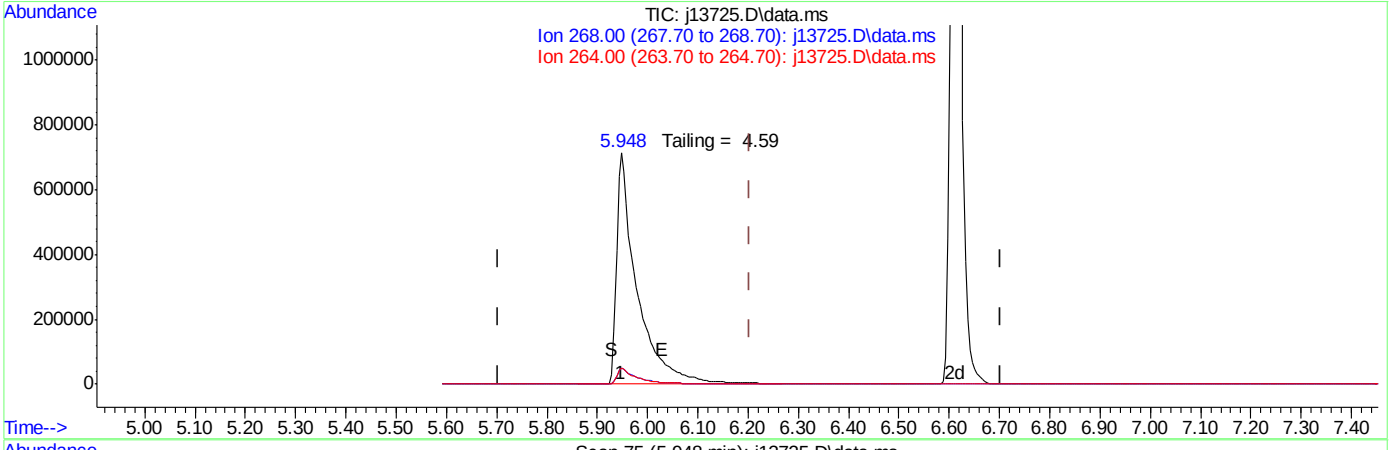
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.4	163051	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.8	157696	PASS
70	69	0.00	2	0.6	898	PASS
127	198	40	60	52.3	169259	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	323435	PASS
199	198	5	9	6.7	21683	PASS
275	198	10	30	28.0	90573	PASS
365	198	1	100	4.5	14570	PASS
441	443	0.01	100	82.7	43453	PASS
442	198	40	100	84.9	274475	PASS
443	442	17	23	19.2	52571	PASS

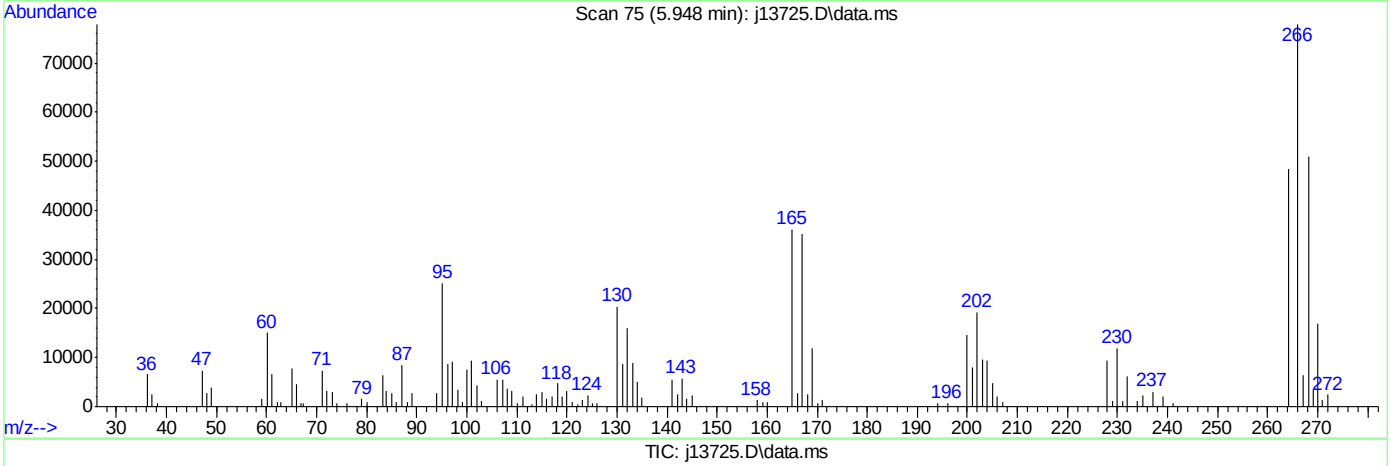
j13725.D dftpp.m Fri Oct 09 09:19:28 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13725.D
Acq On    :  9 Oct 2009   9:13 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej631,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 09 09:19:42 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: j13725.D\data.ms

(1) Pentachlorophenol

5.948min (-0.255) 0.00

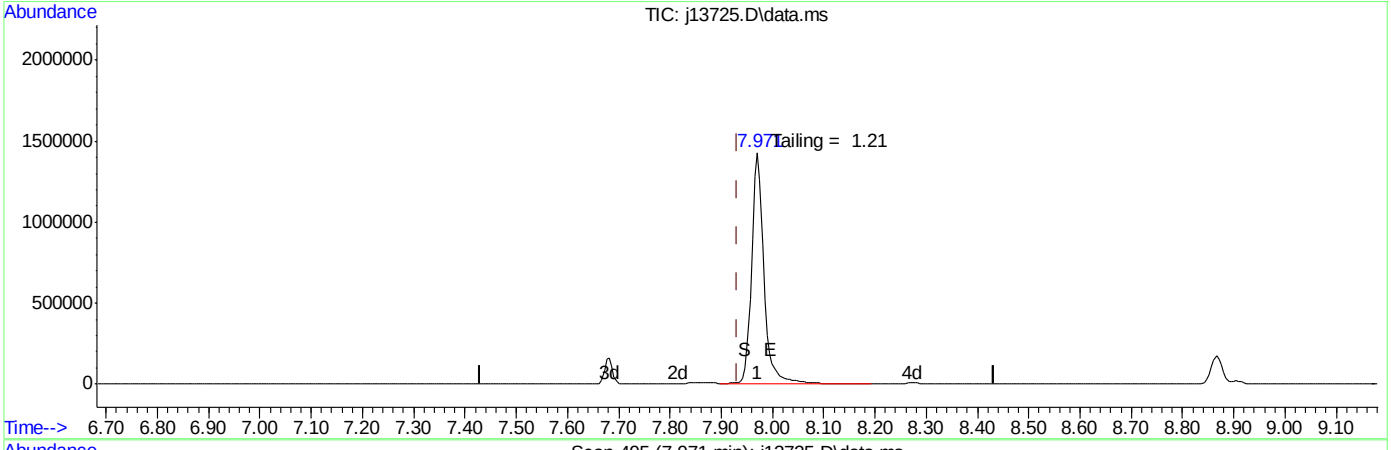
response 2003294

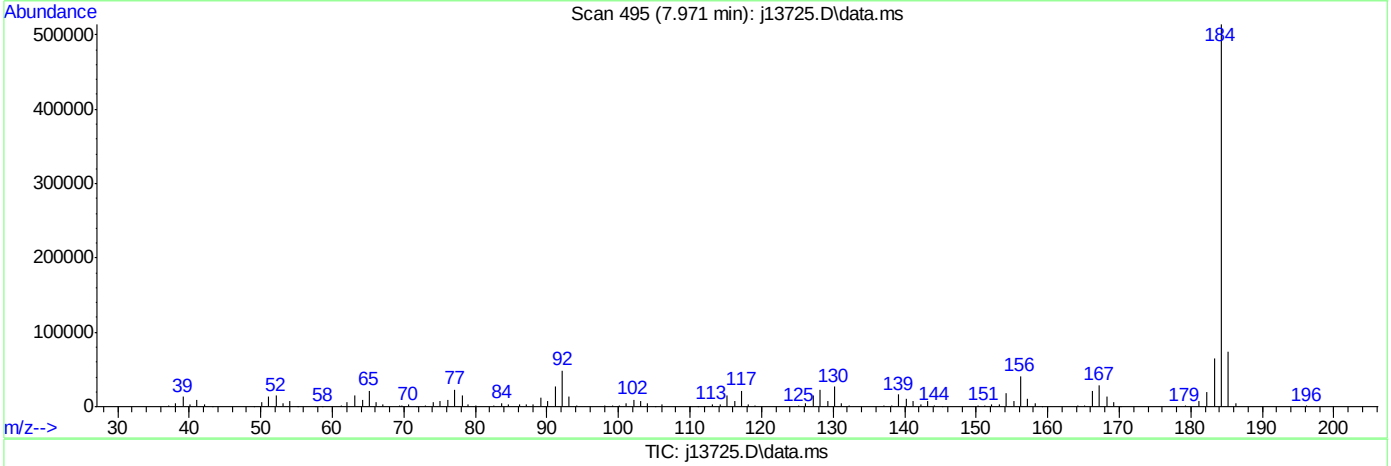
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.38#
264.00	697.70	7.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13725.D
Acq On    :  9 Oct 2009   9:13 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej631,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 09 09:19:42 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: j13725.D\data.ms

(3) Benzidine

7.971min (+0.039) 0.00

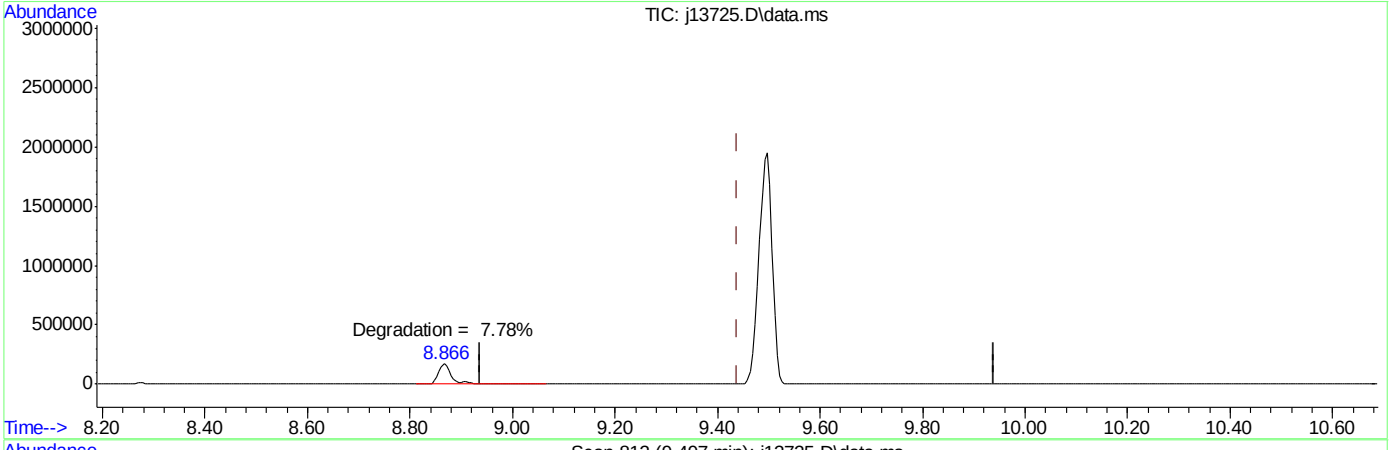
response 2392922

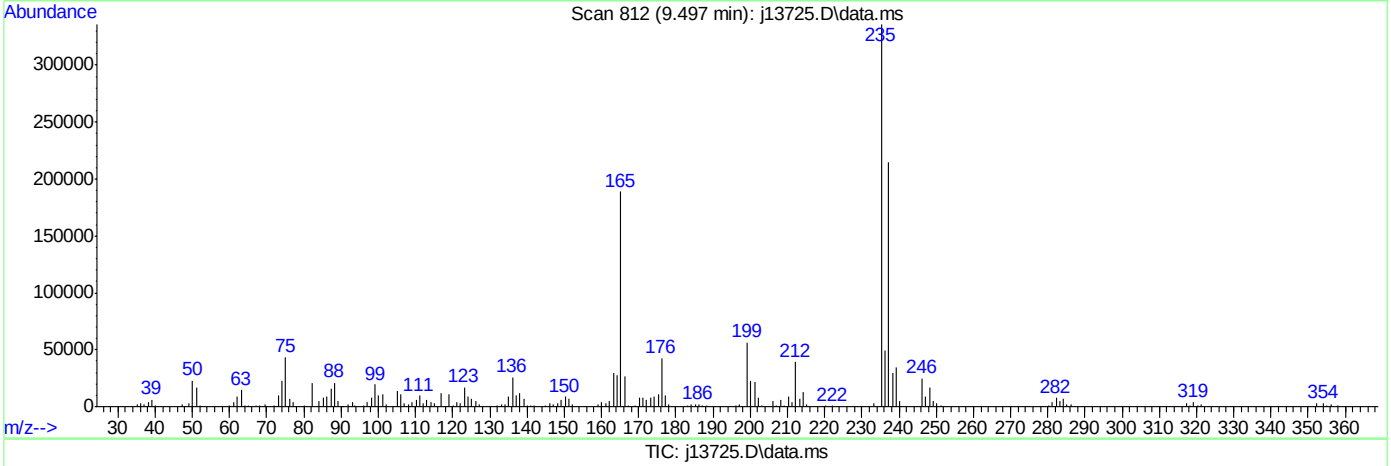
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13725.D
Acq On    :  9 Oct 2009   9:13 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej631,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 09 09:19:42 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: j13725.D\data.ms

(4) DDT

9.497min (+0.058) 0.00

response 3526414

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%	

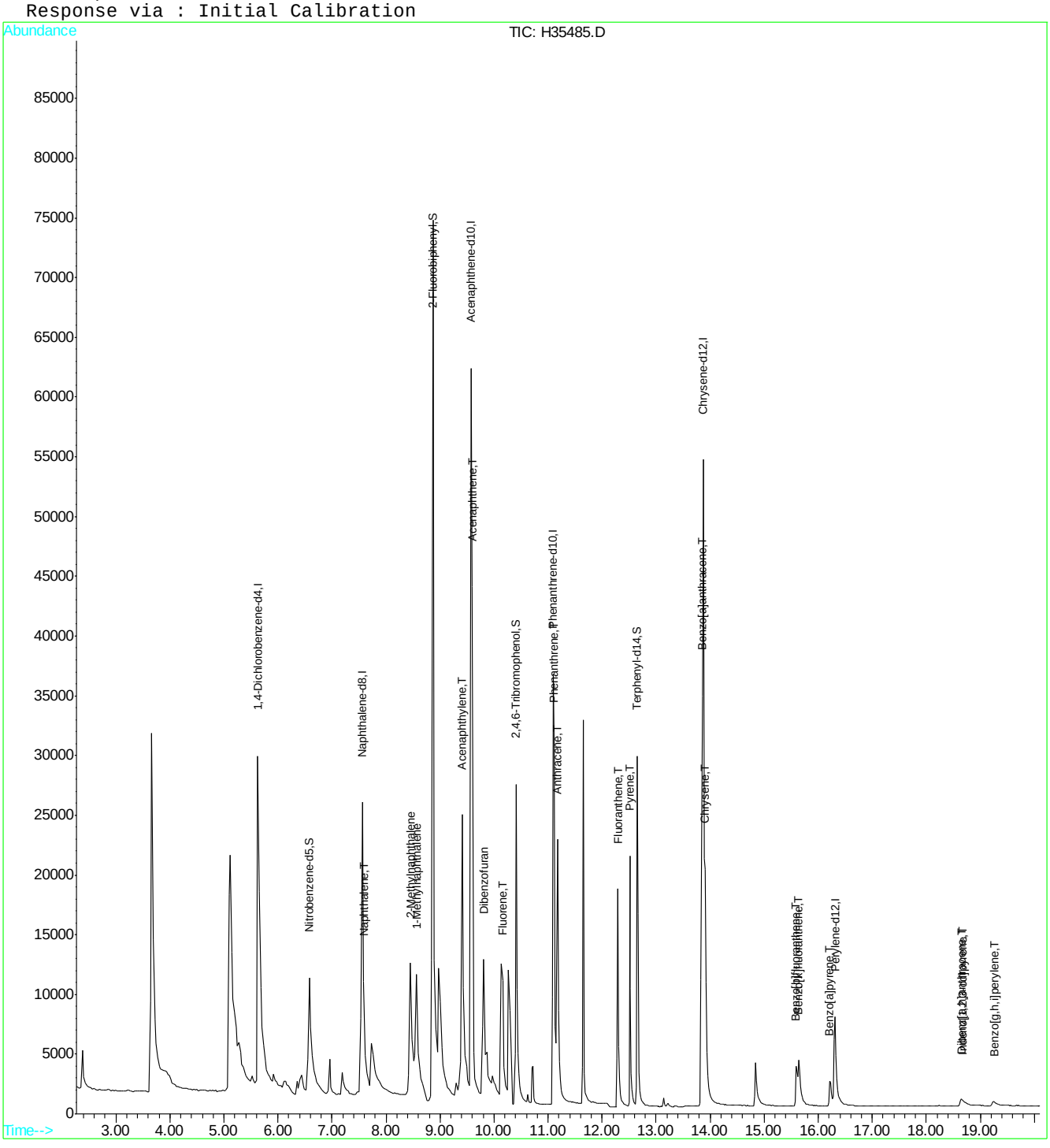
Target Compounds							Qvalue
6) Naphthalene	7.59	128	18609	0.72	ppb	#	86
7) 2-Methylnaphthalene	8.45	142	23285	1.57	ppb	#	100
8) 1-Methylnaphthalene	8.56	142	23423	0.78	ppb	#	57
11) Acenaphthylene	9.41	152	39521	0.57	ppb	#	87
12) Acenaphthene	9.60	153	27240	0.89	ppb		79
13) Dibenzofuran	9.81	168	23455	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

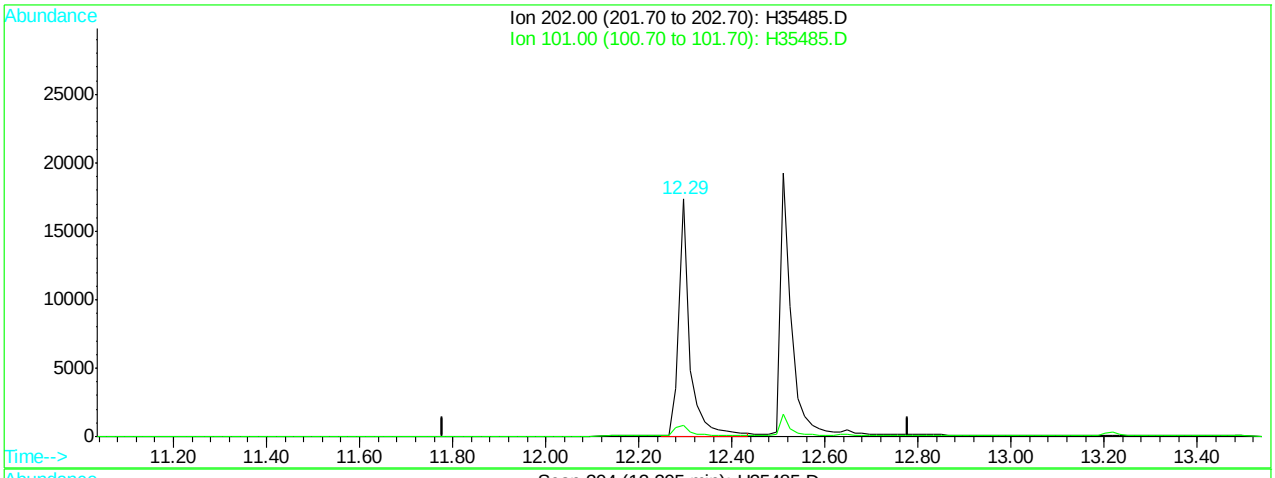
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

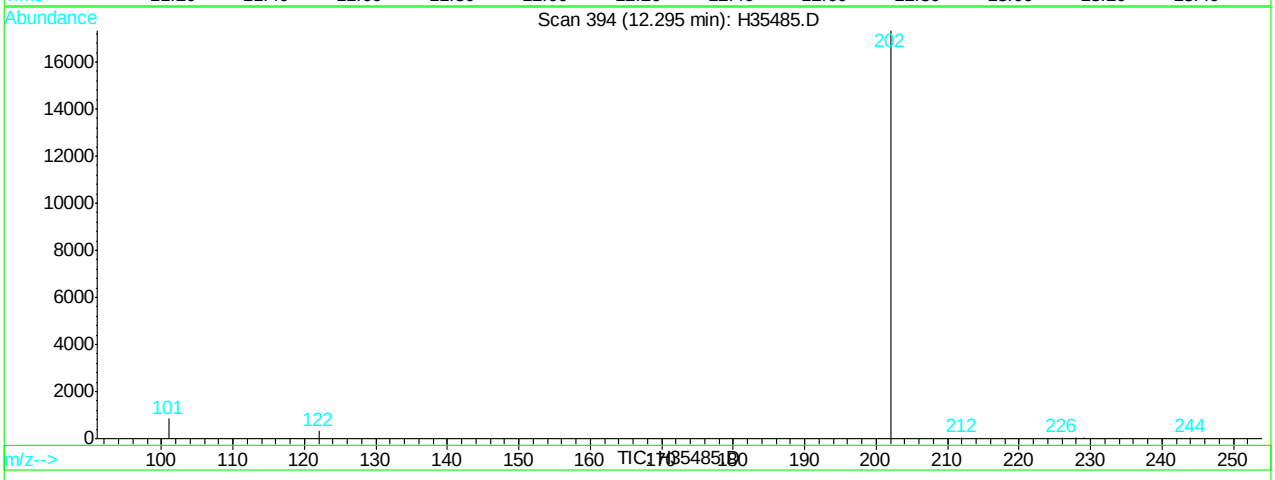


Quantitation Report (Qedit)

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

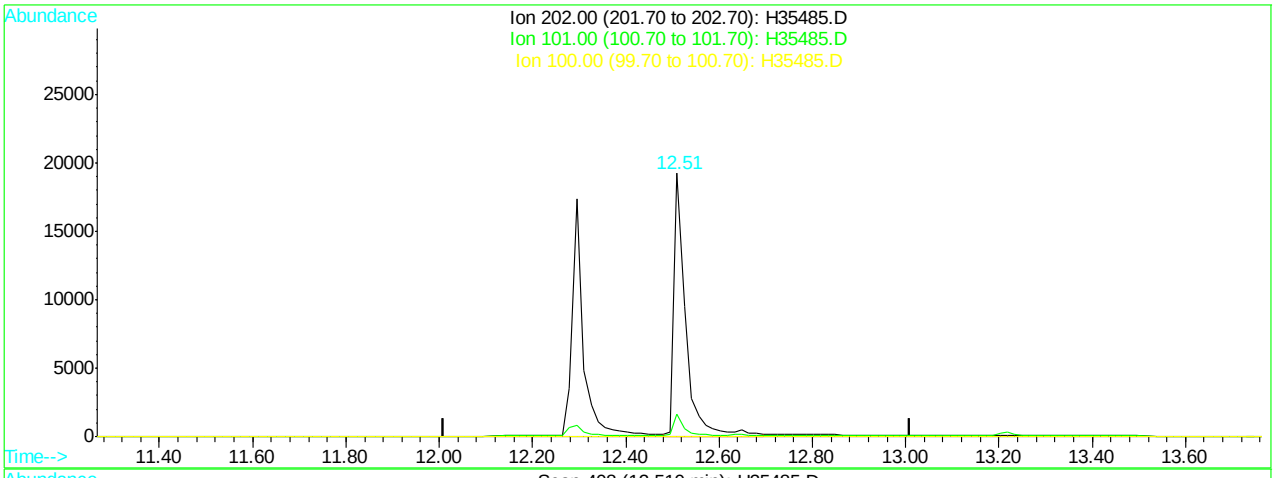
Ion	Exp%	Act%
202.00	100	100
101.00	10.40	4.85#
0.00	0.00	0.00
0.00	0.00	0.00

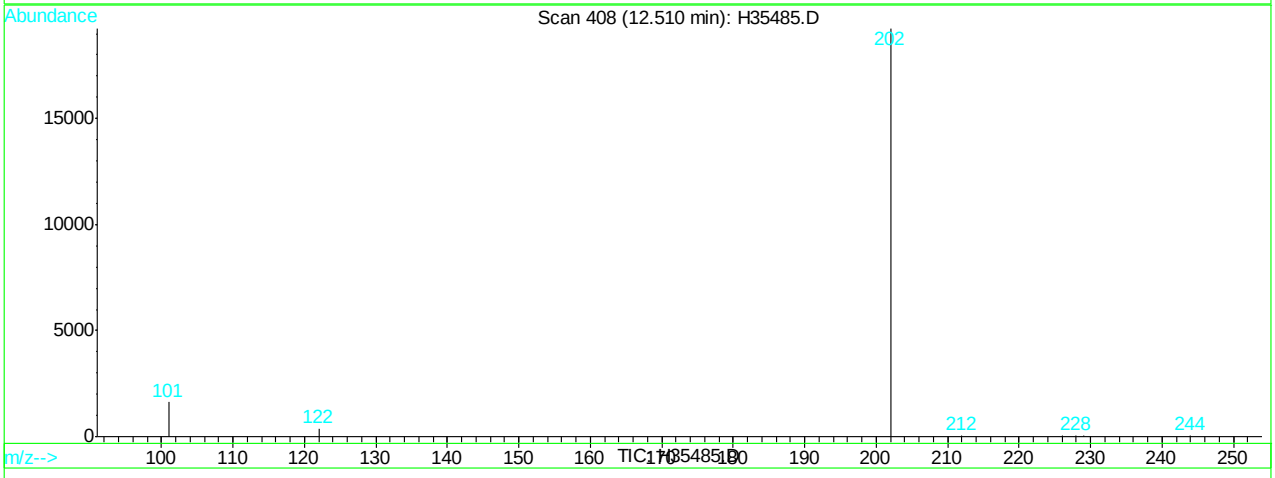
H35485.D H10209SP.M Tue Oct 20 14:44:12 2009

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

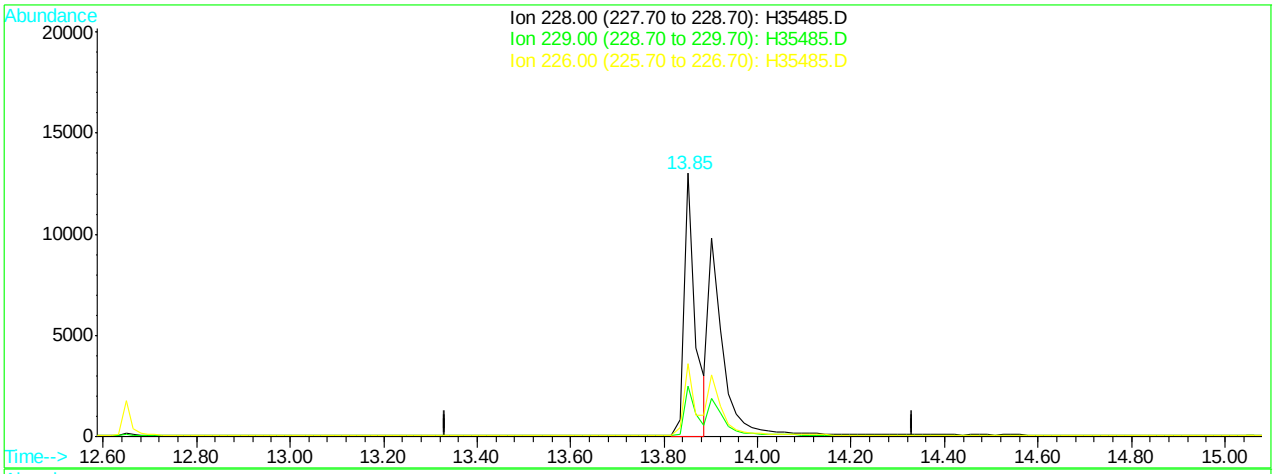
Ion	Exp%	Act%
202.00	100	100
101.00	4.30	8.45#
100.00	0.00	0.00
0.00	0.00	0.00

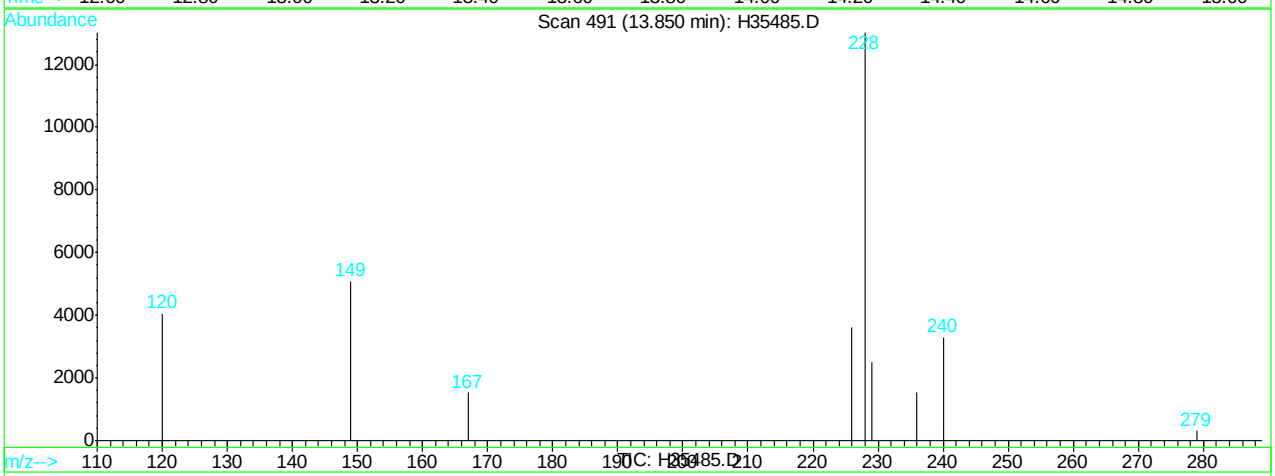
H35485.D H10209SP.M Tue Oct 20 14:44:15 2009

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

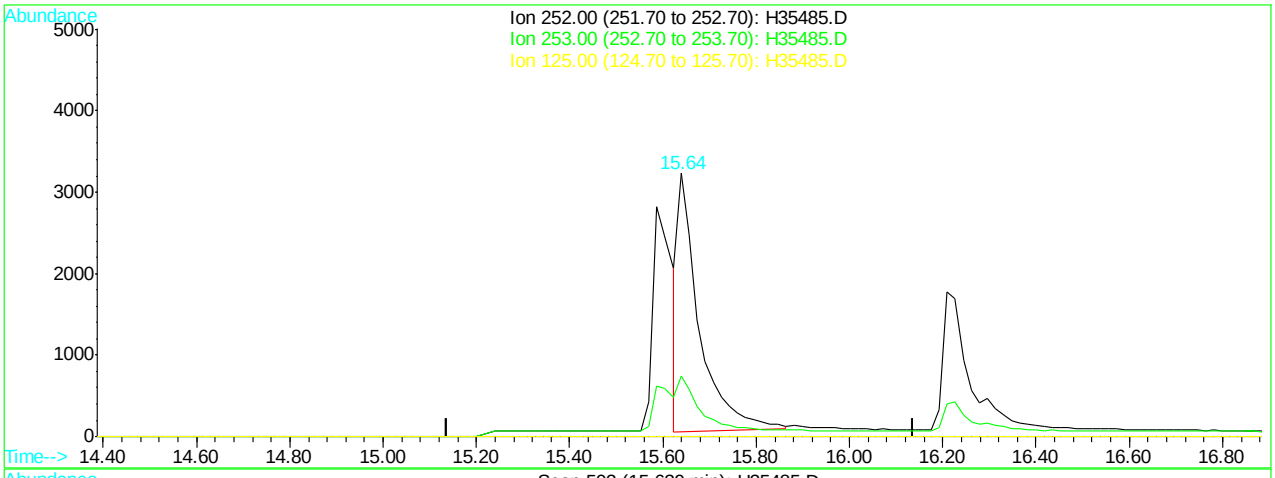
Ion	Exp%	Act%
228.00	100	100
229.00	14.60	19.37#
226.00	34.80	27.85
0.00	0.00	0.00

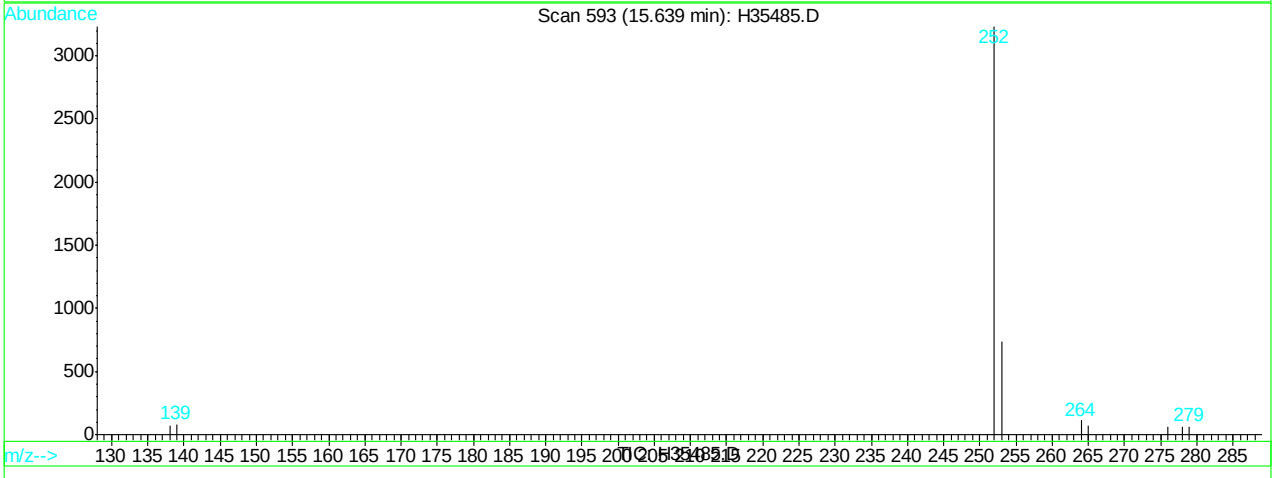
H35485.D H10209SP.M Tue Oct 20 14:44:19 2009

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%			

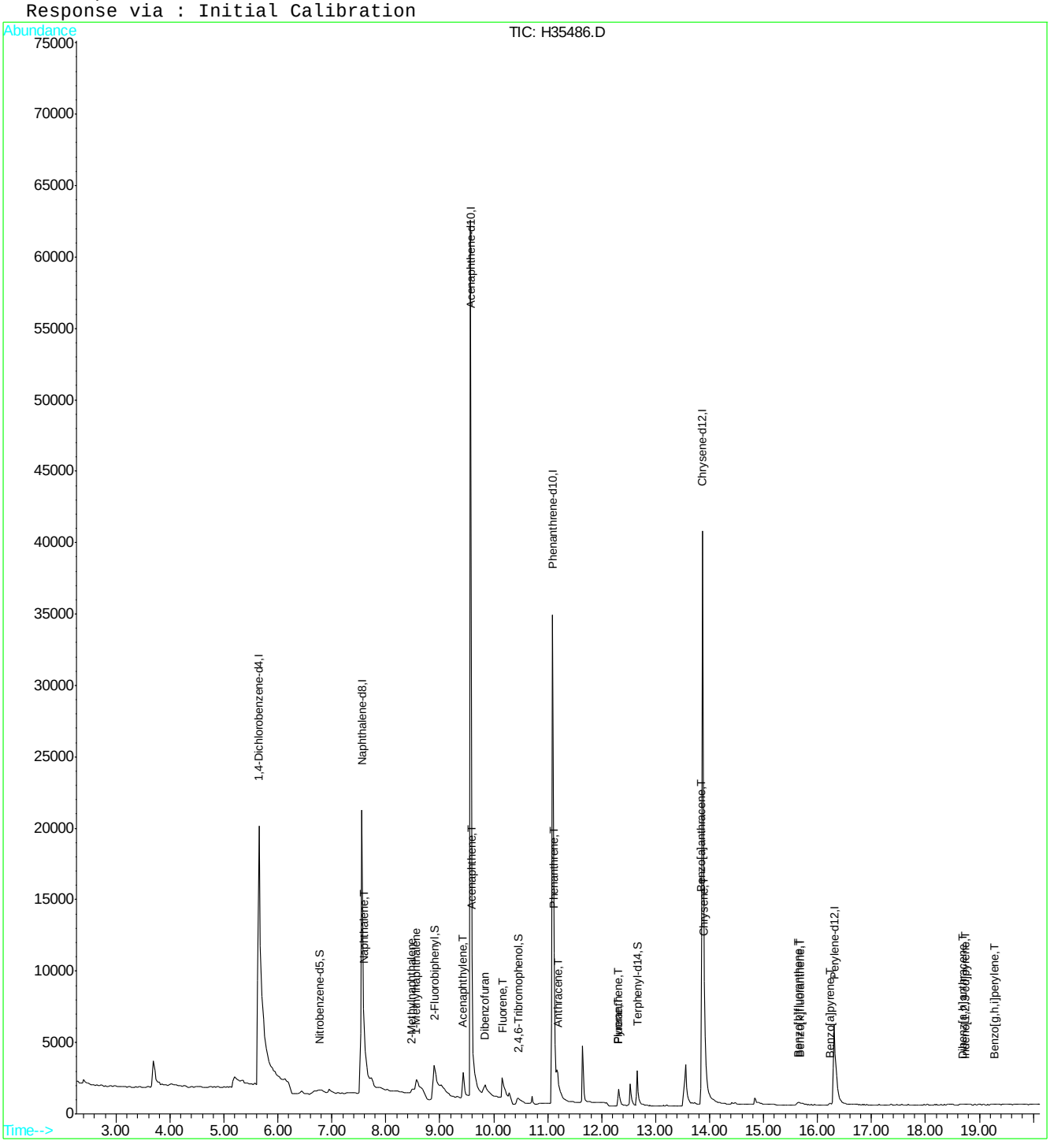
Target Compounds						Qvalue
6) Naphthalene	7.59	128	2066	0.07	ppb #	86
7) 2-Methylnaphthalene	8.48	142	1120m	0.06	ppb	
8) 1-Methylnaphthalene	8.57	142	4140m	0.12	ppb	
11) Acenaphthylene	9.43	152	3174	0.04	ppb	96
12) Acenaphthene	9.59	153	3114	0.10	ppb #	69
13) Dibenzofuran	9.84	168	2921	0.04	ppb #	72
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

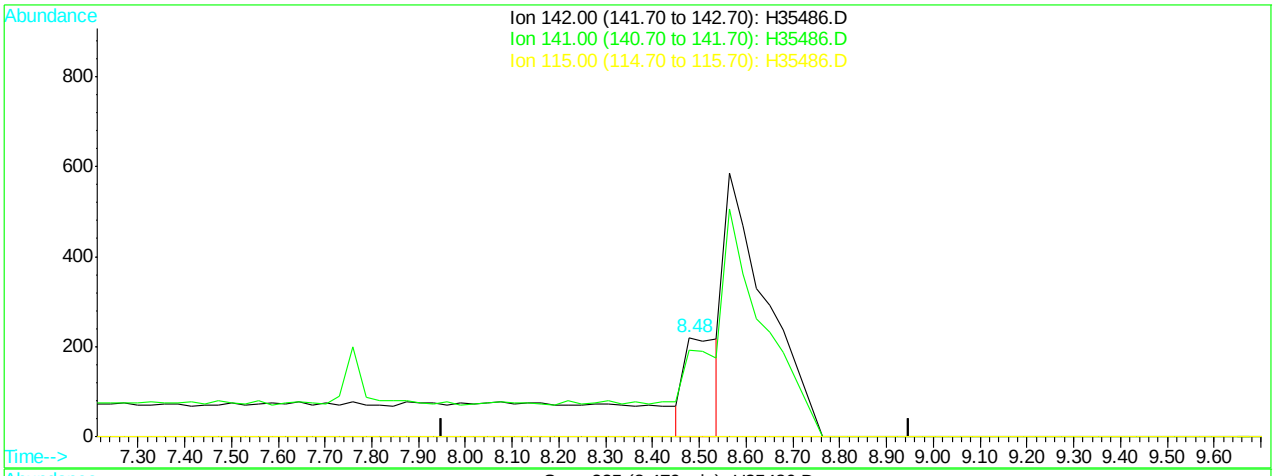


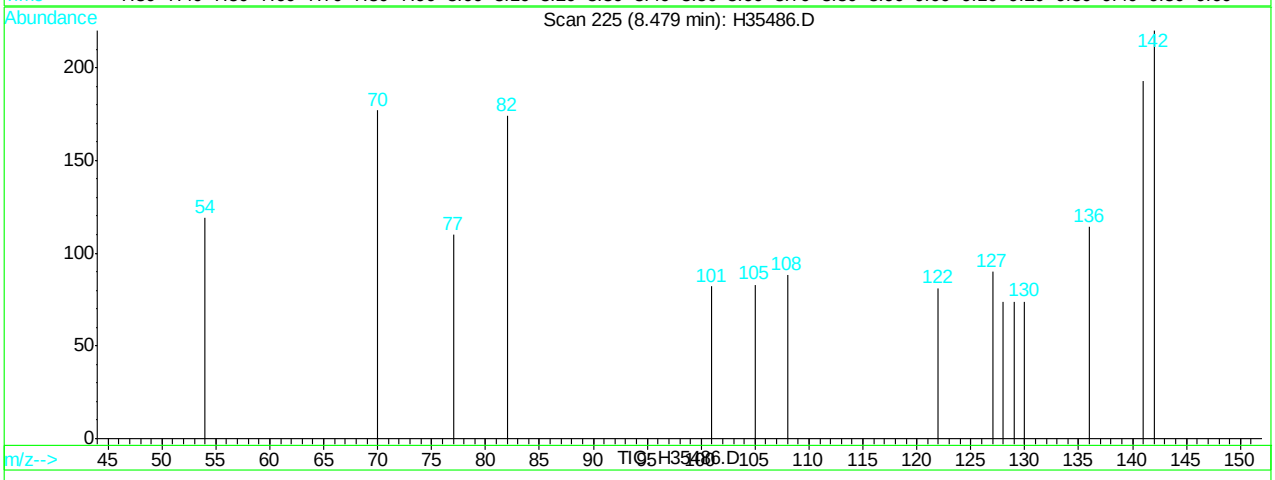
ACCUTEST Laboratories T39314

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

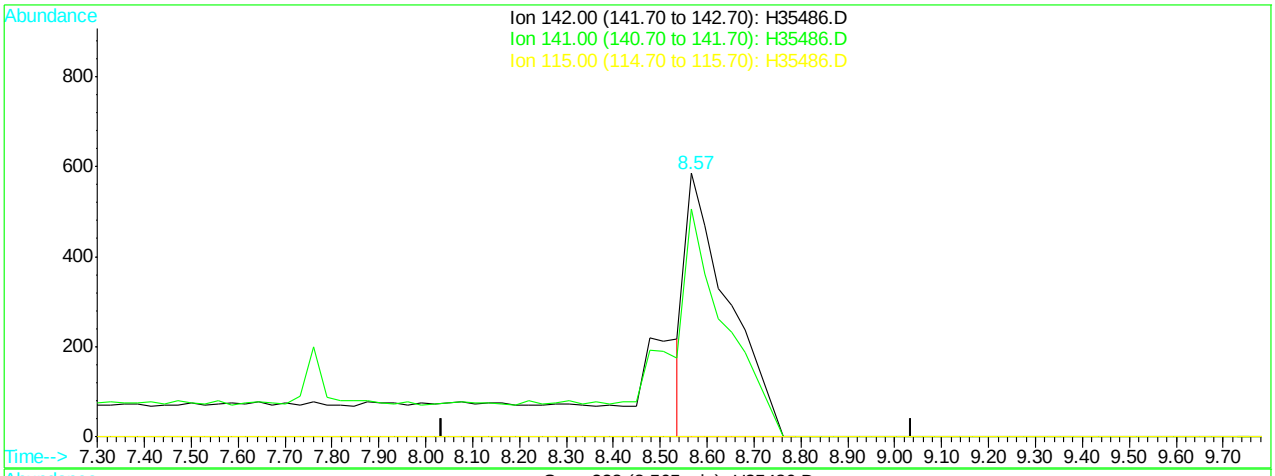
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	400.45#
115.00	0.00	0.00
0.00	0.00	0.00

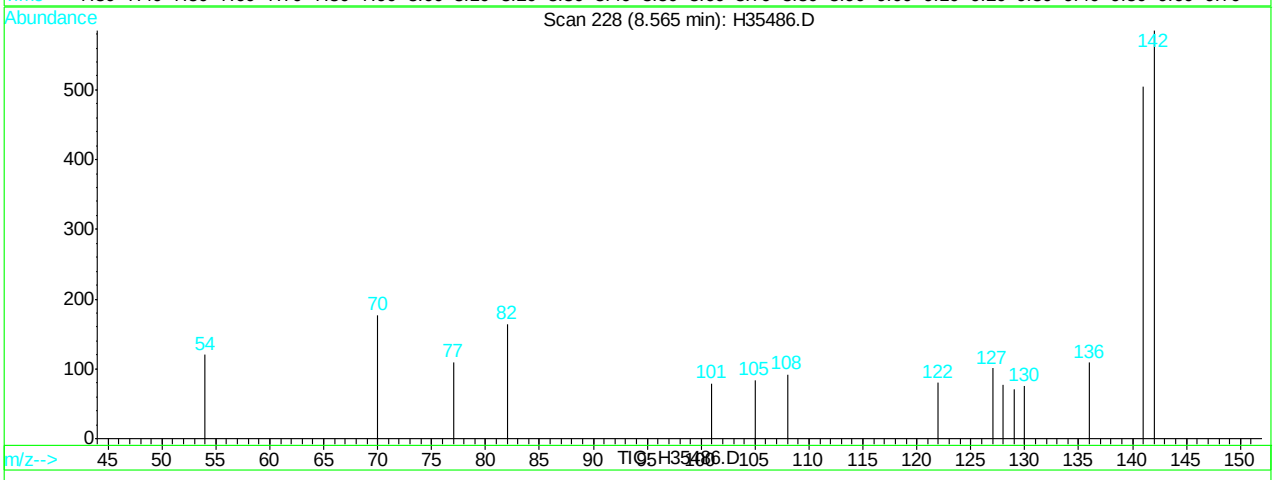
H35486.D H10209SP.M Tue Oct 20 14:44:54 2009

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

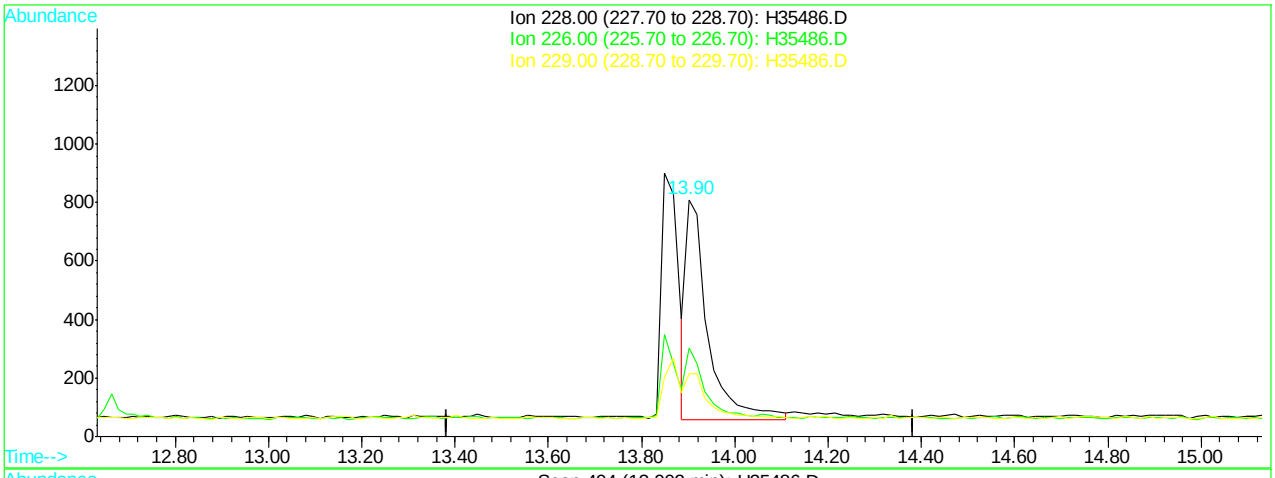
Ion	Exp%	Act%
142.00	100	100
141.00	134.10	108.33
115.00	0.00	0.00
0.00	0.00	0.00

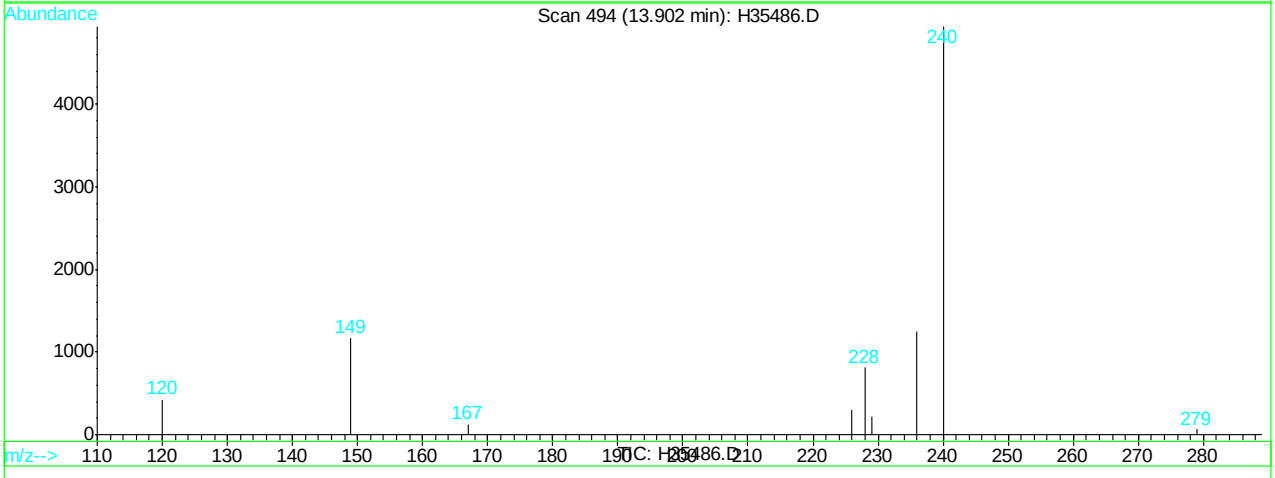
H35486.D H10209SP.M Tue Oct 20 14:44:57 2009

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

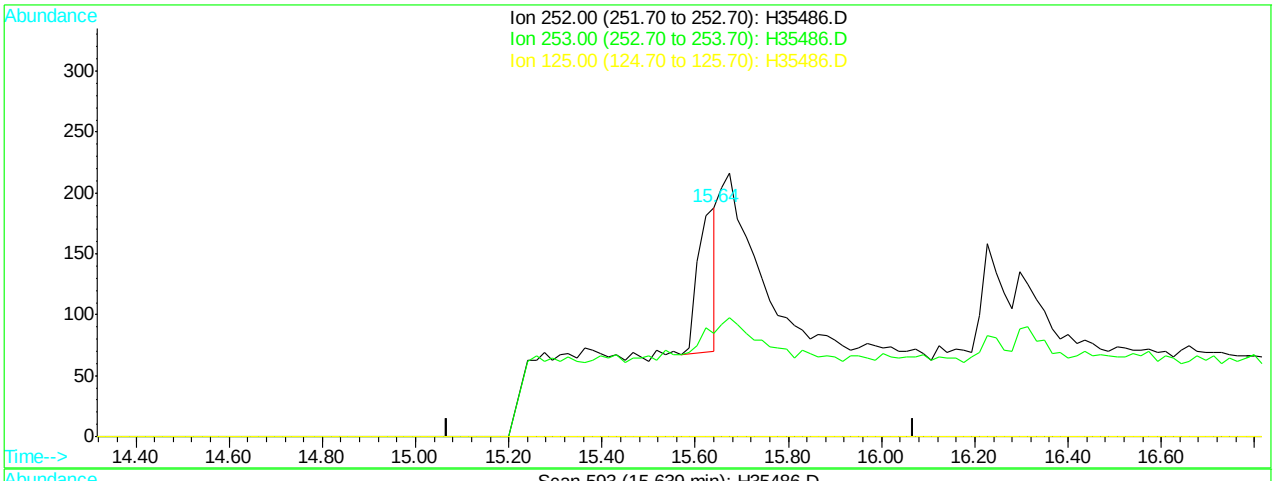
Ion	Exp%	Act%
228.00	100	100
226.00	36.50	37.16
229.00	15.50	26.54#
0.00	0.00	0.00

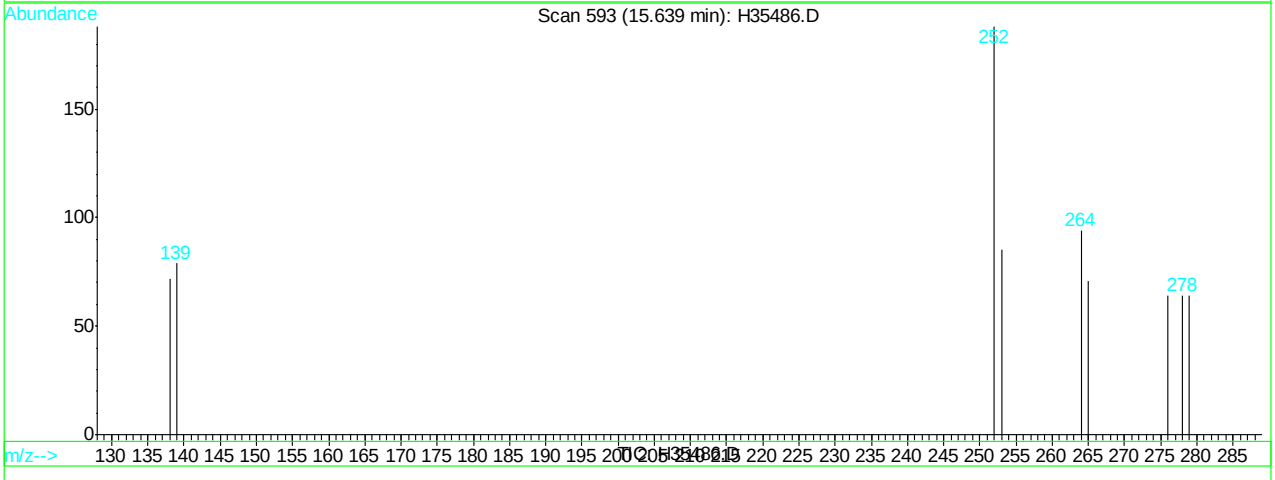
H35486.D H10209SP.M Tue Oct 20 14:45:04 2009

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

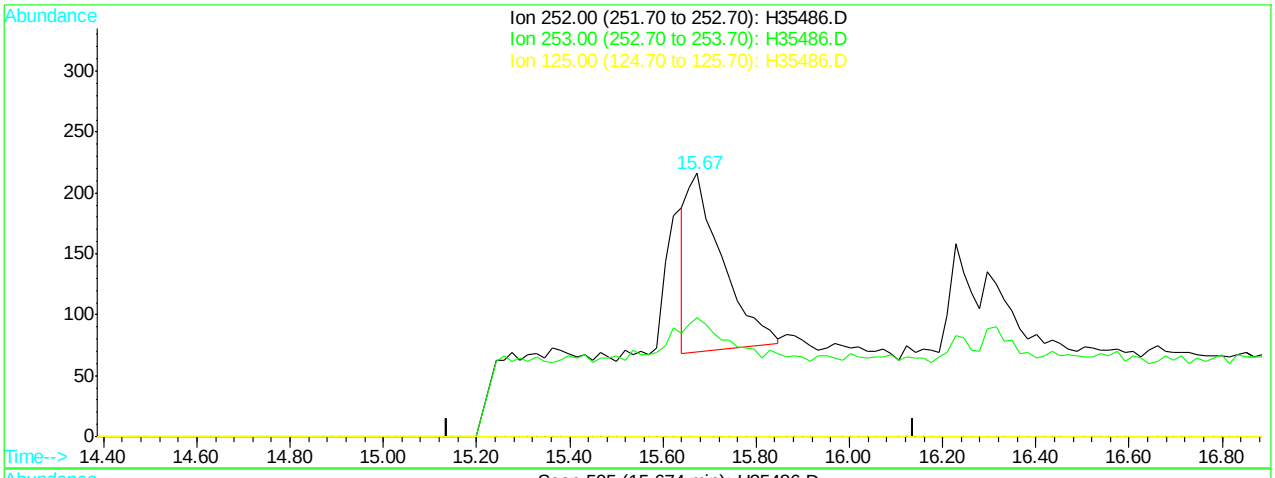
Ion	Exp%	Act%
252.00	100	100
253.00	21.70	45.21#
125.00	0.00	0.00
0.00	0.00	0.00

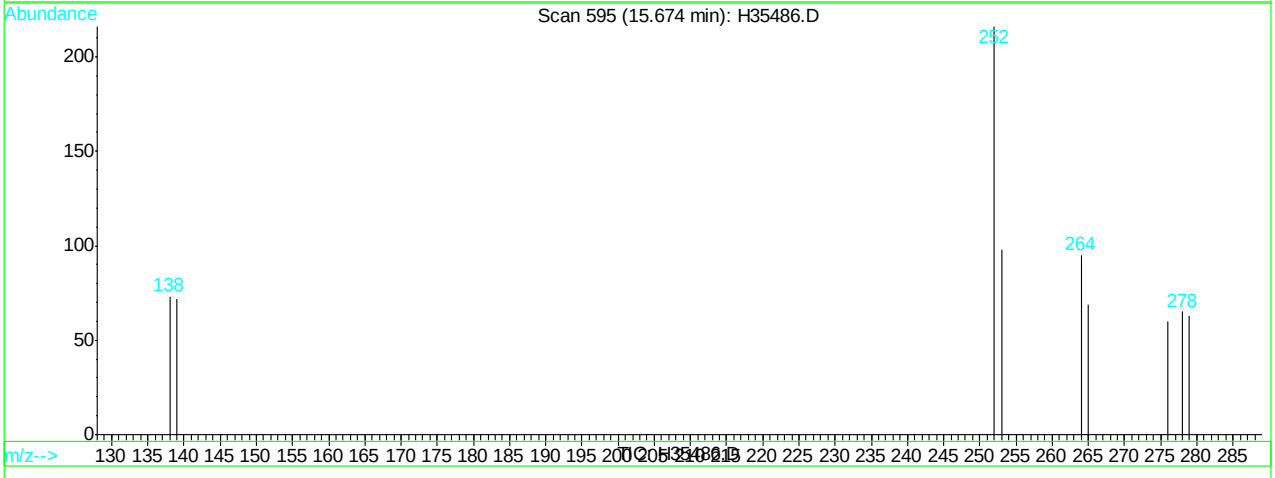
H35486.D H10209SP.M Tue Oct 20 14:45:09 2009

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%	

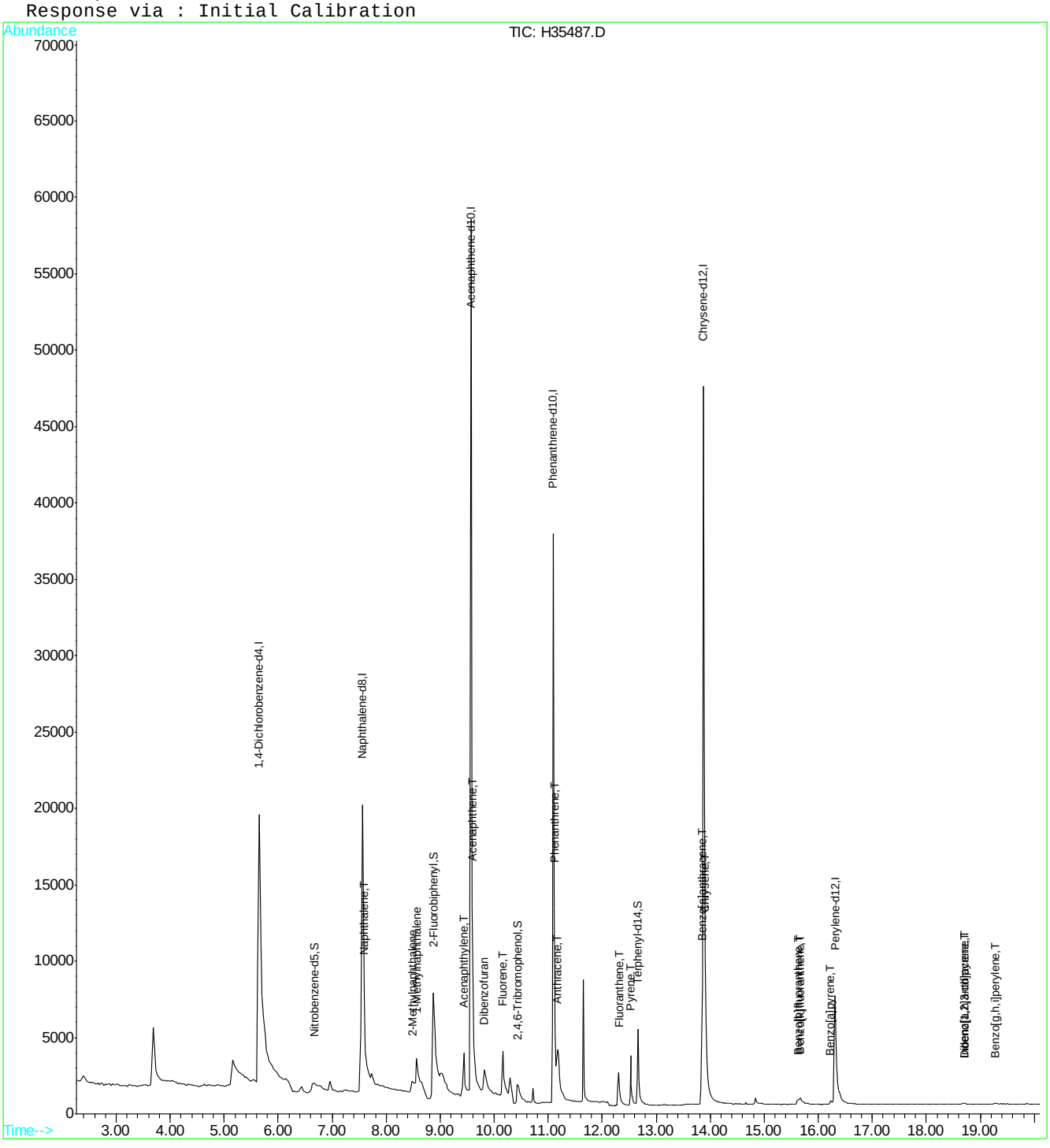
Target Compounds							Qvalue
6) Naphthalene	7.59	128	3530	0.13	ppb	#	80
7) 2-Methylnaphthalene	8.48	142	2125m	0.13	ppb		
8) 1-Methylnaphthalene	8.57	142	4265m	0.13	ppb		
11) Acenaphthylene	9.44	152	5216	0.08	ppb		96
12) Acenaphthene	9.60	153	5412	0.18	ppb		71
13) Dibenzofuran	9.81	168	5605	0.09	ppb	#	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

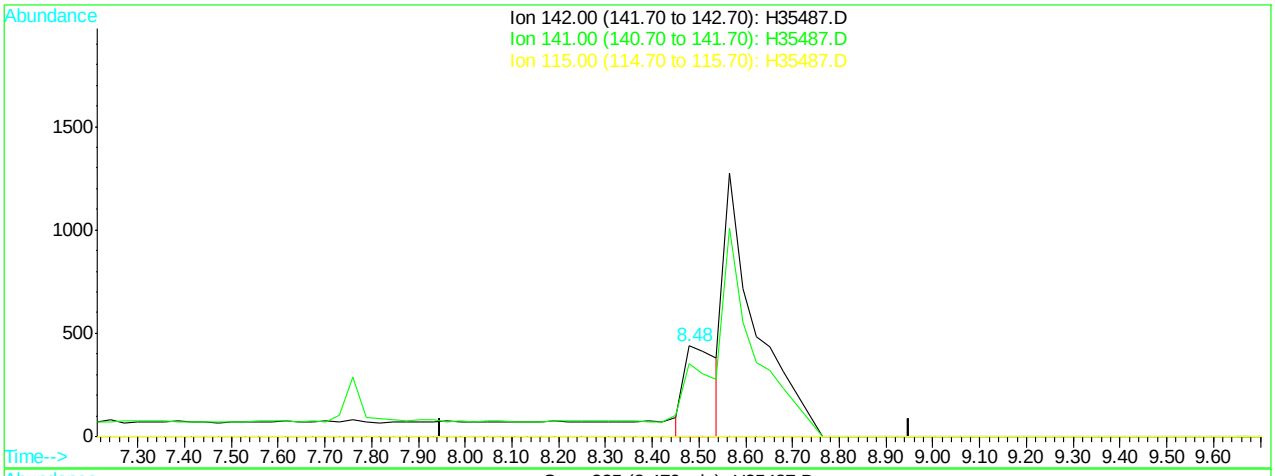
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

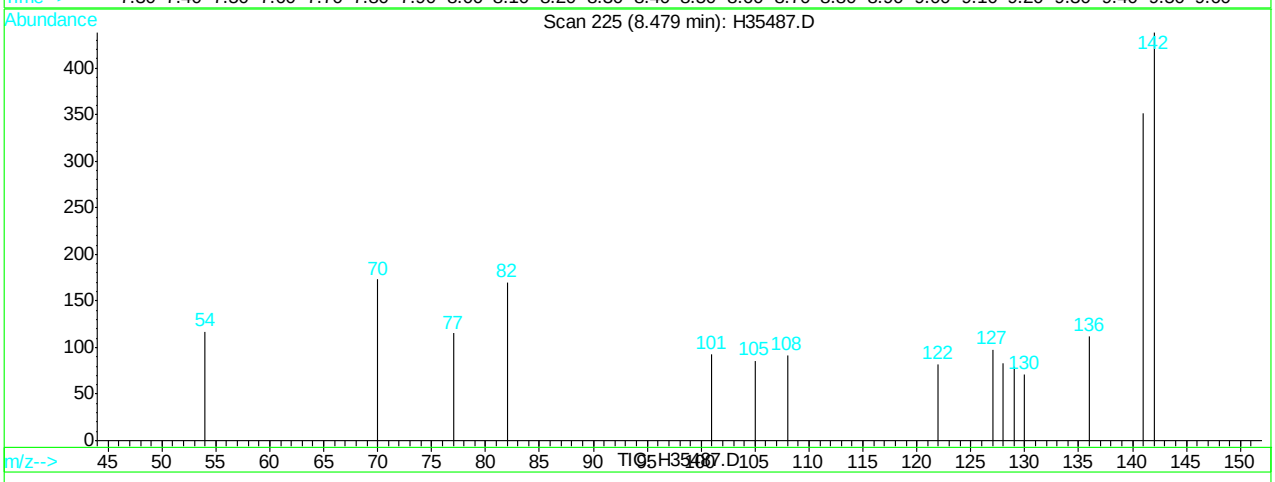


Quantitation Report (Qedit)

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

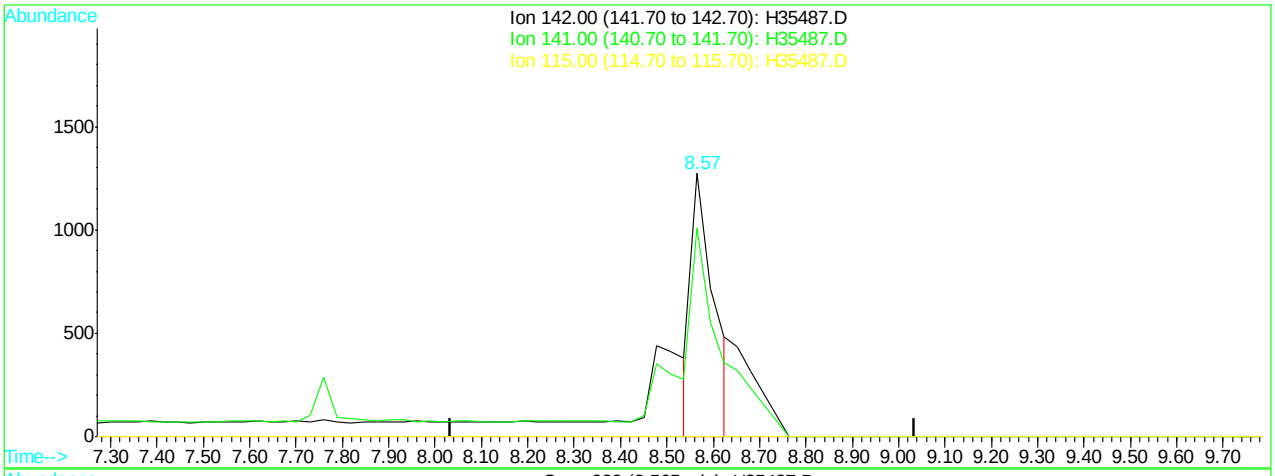
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	331.91#
115.00	0.00	0.00
0.00	0.00	0.00

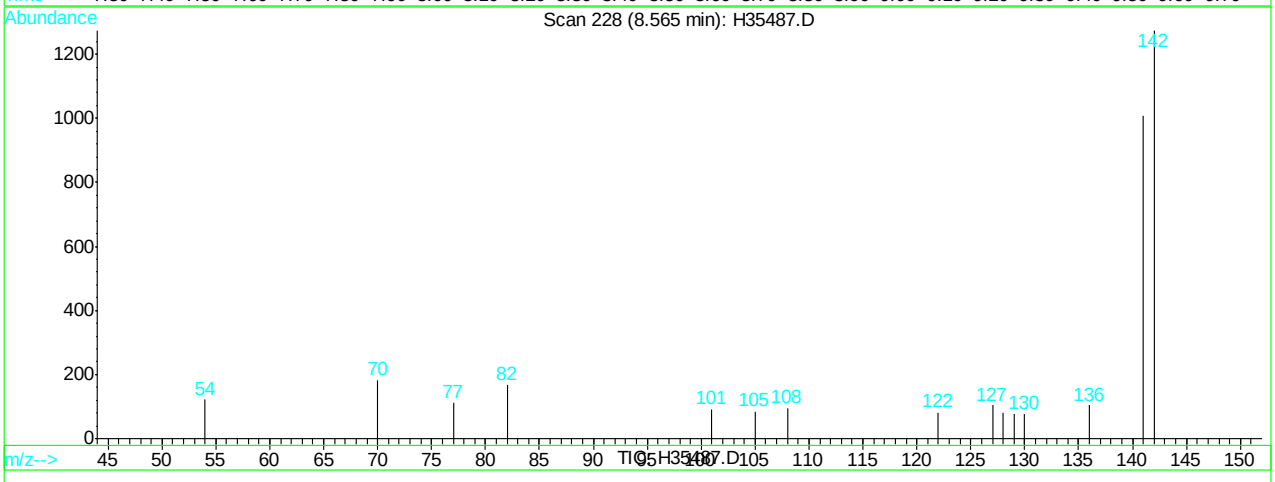
H35487.D H10209SP.M Tue Oct 20 14:45:33 2009

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

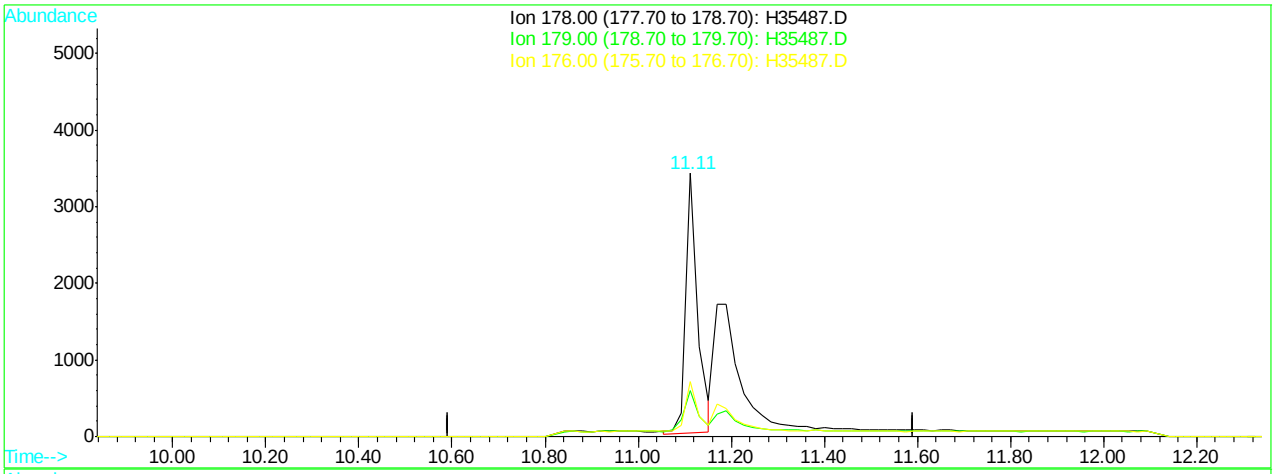
Ion	Exp%	Act%
142.00	100	100
141.00	134.10	165.37
115.00	0.00	0.00
0.00	0.00	0.00

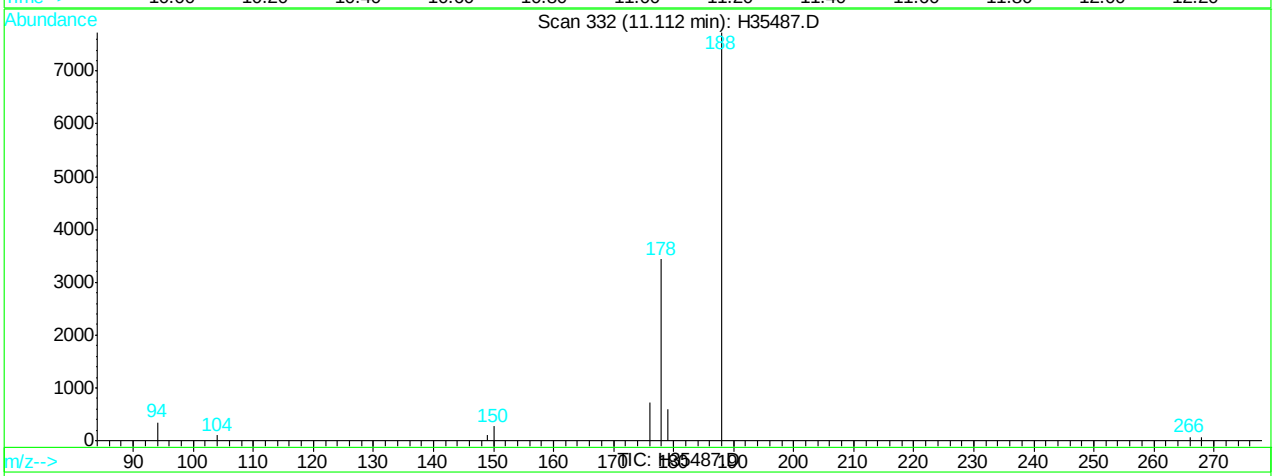
H35487.D H10209SP.M Tue Oct 20 14:45:37 2009

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

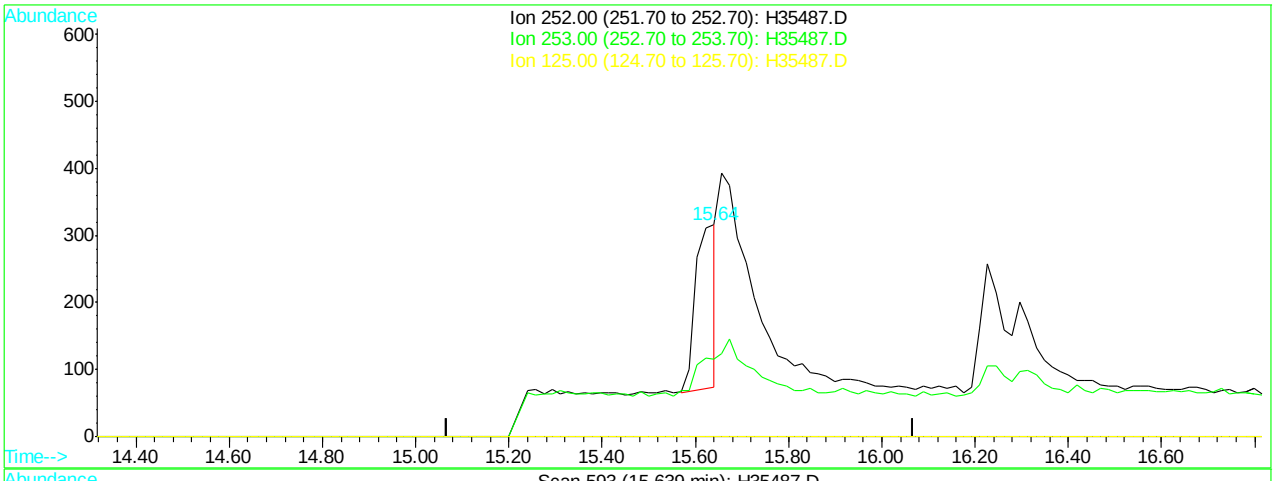
Ion	Exp%	Act%
178.00	100	100
179.00	10.90	17.53#
176.00	26.40	21.08
0.00	0.00	0.00

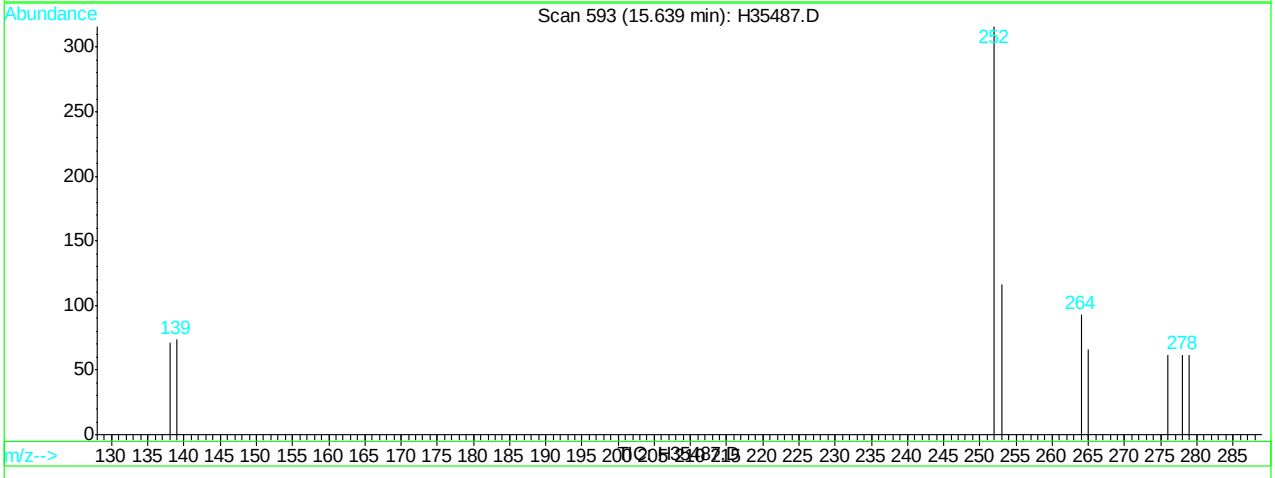
H35487.D H10209SP.M Tue Oct 20 14:45:44 2009

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

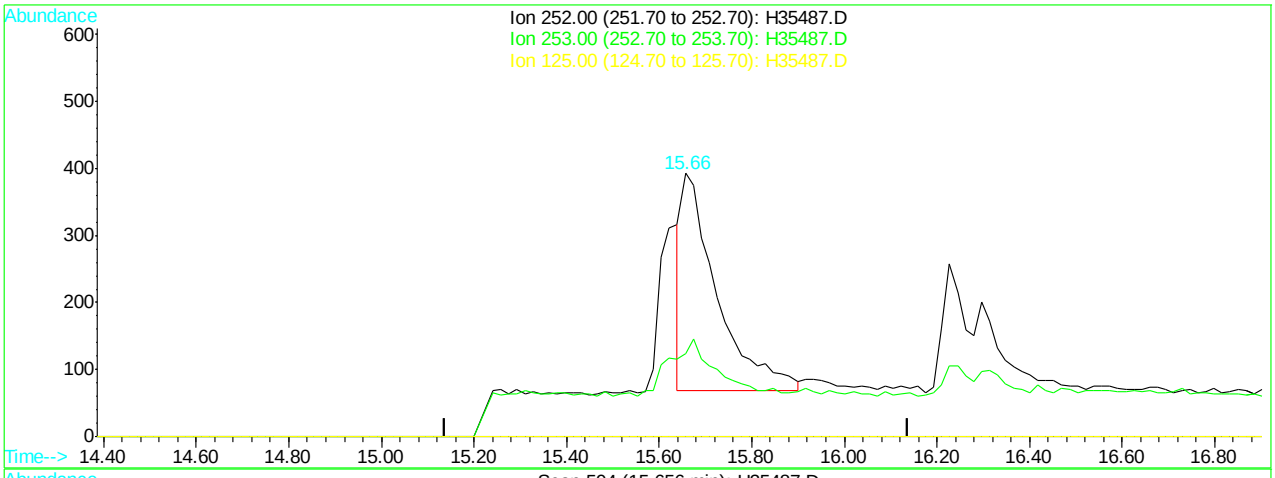
Ion	Exp%	Act%
252.00	100	100
253.00	21.70	36.71#
125.00	0.00	0.00
0.00	0.00	0.00

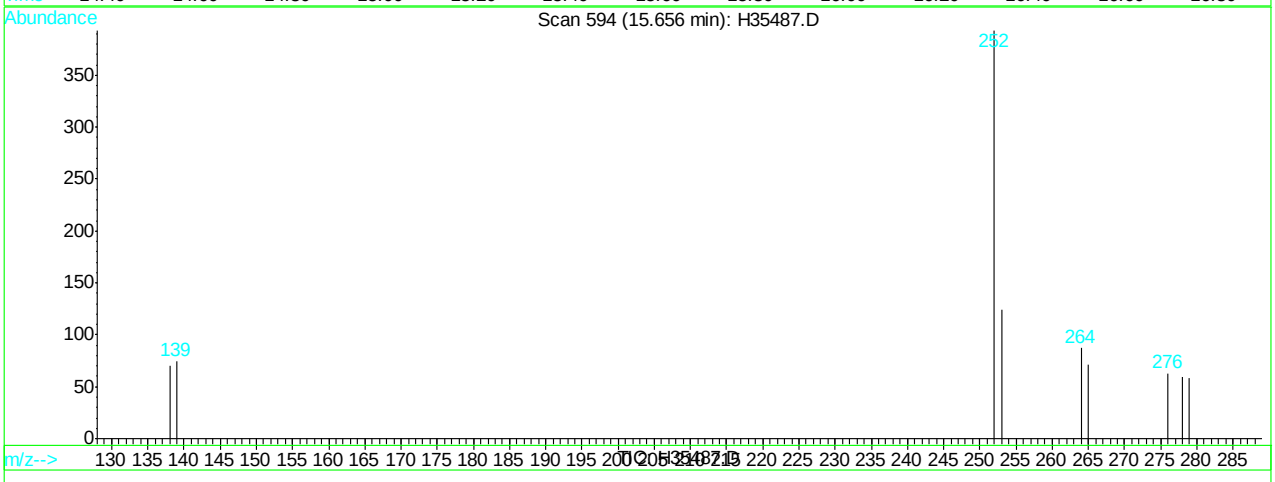
H35487.D H10209SP.M Tue Oct 20 14:45:48 2009

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

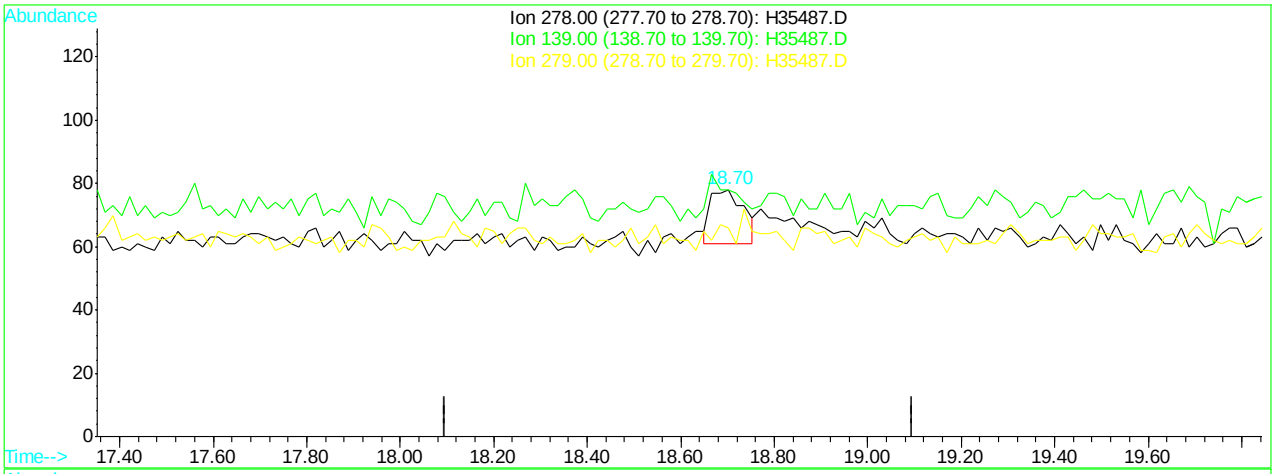
Ion	Exp%	Act%
252.00	100	100
253.00	23.30	31.55#
125.00	0.00	0.00
0.00	0.00	0.00

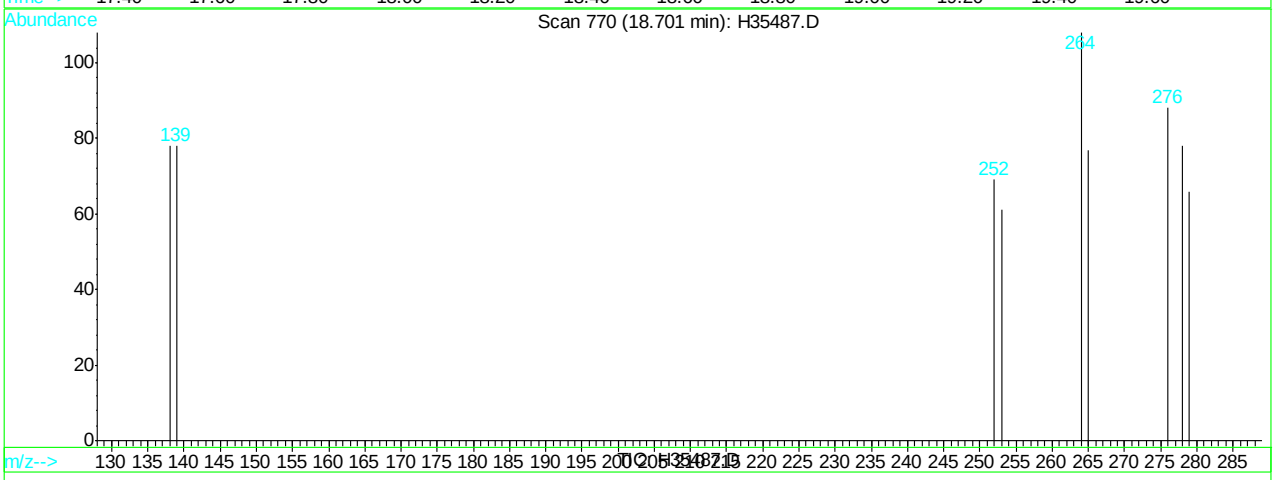
H35487.D H10209SP.M Tue Oct 20 14:45:51 2009

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

8.6.3.6

8

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

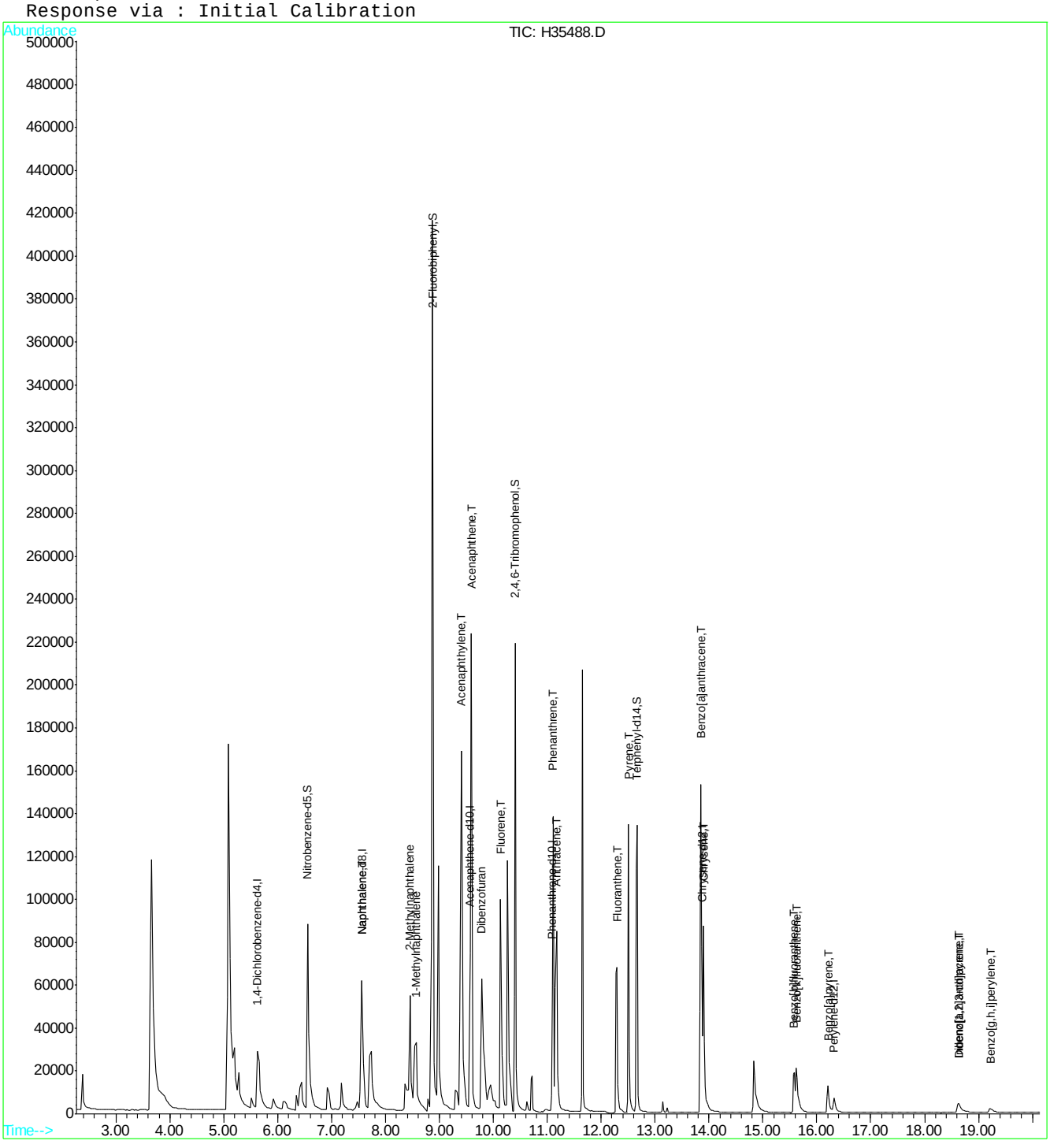
							Qvalue
6) Naphthalene	7.56	128	80780	5.20	ppb		96
7) 2-Methylnaphthalene	8.45	142	73754m	5.77	ppb		
8) 1-Methylnaphthalene	8.57	142	82183	4.41	ppb	#	91
11) Acenaphthylene	9.41	152	220735	5.24	ppb		98
12) Acenaphthene	9.59	153	143506	4.70	ppb		93
13) Dibenzofuran	9.78	168	112115	4.15	ppb		99
14) Fluorene	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

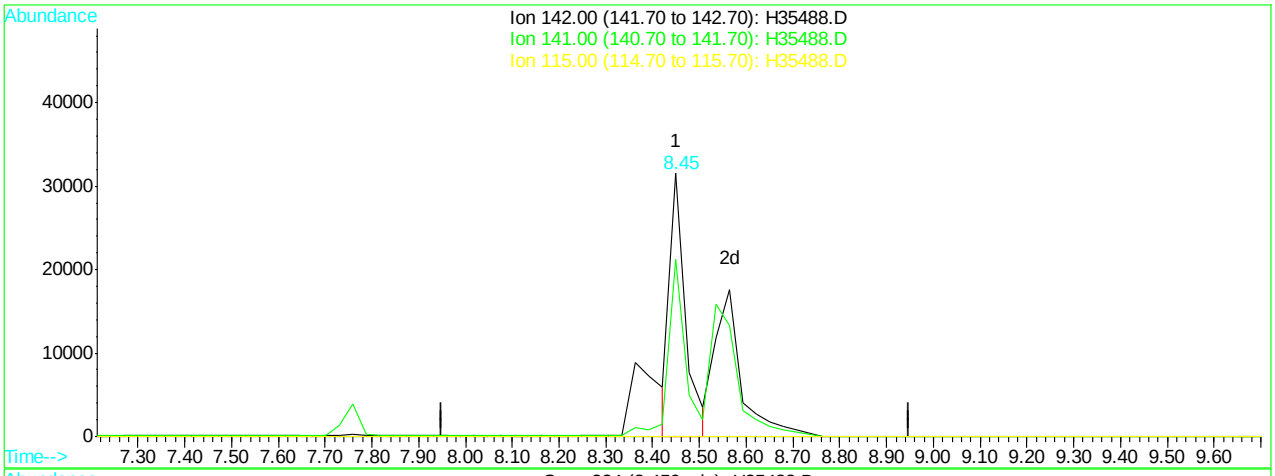
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

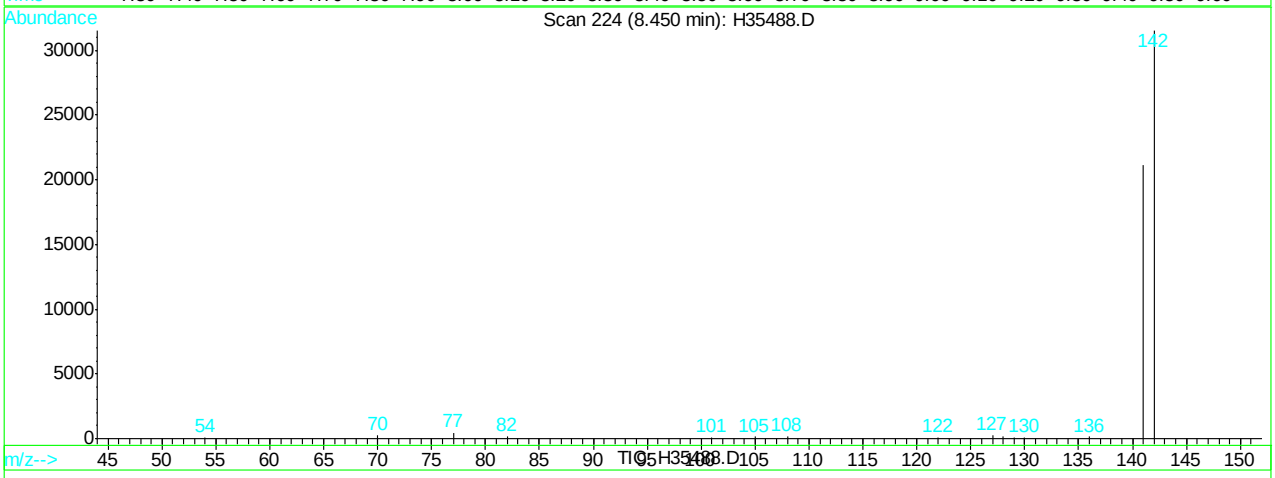


Quantitation Report (Qedit)

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

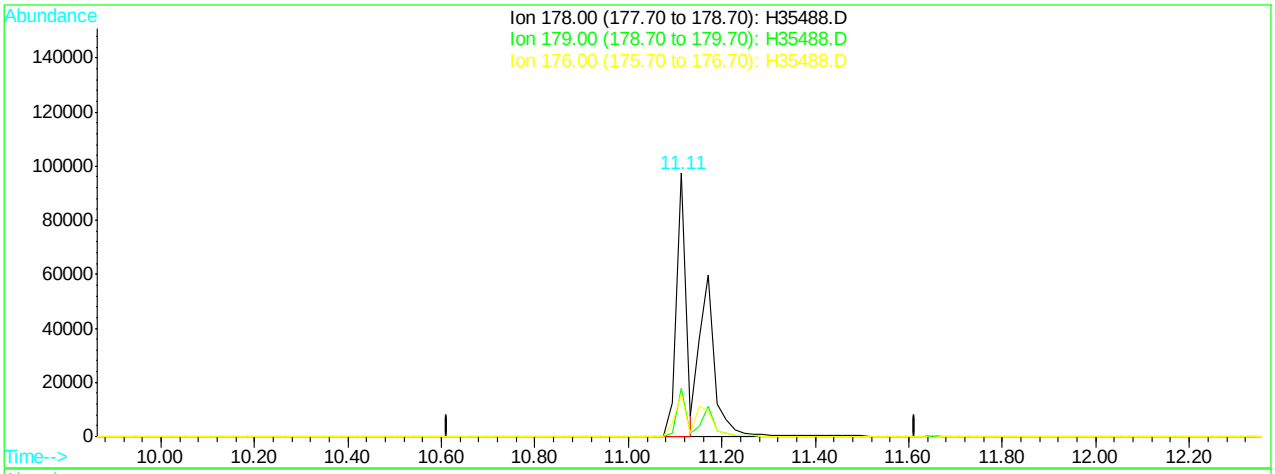
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	73.35
115.00	0.00	0.00
0.00	0.00	0.00

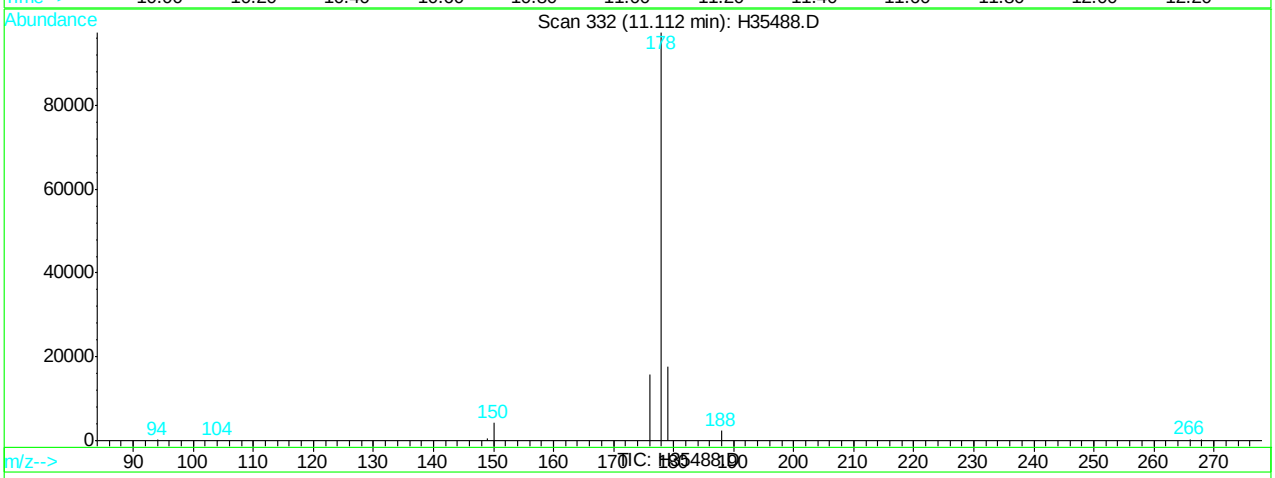
H35488.D H10209SP.M Tue Oct 20 14:46:17 2009

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

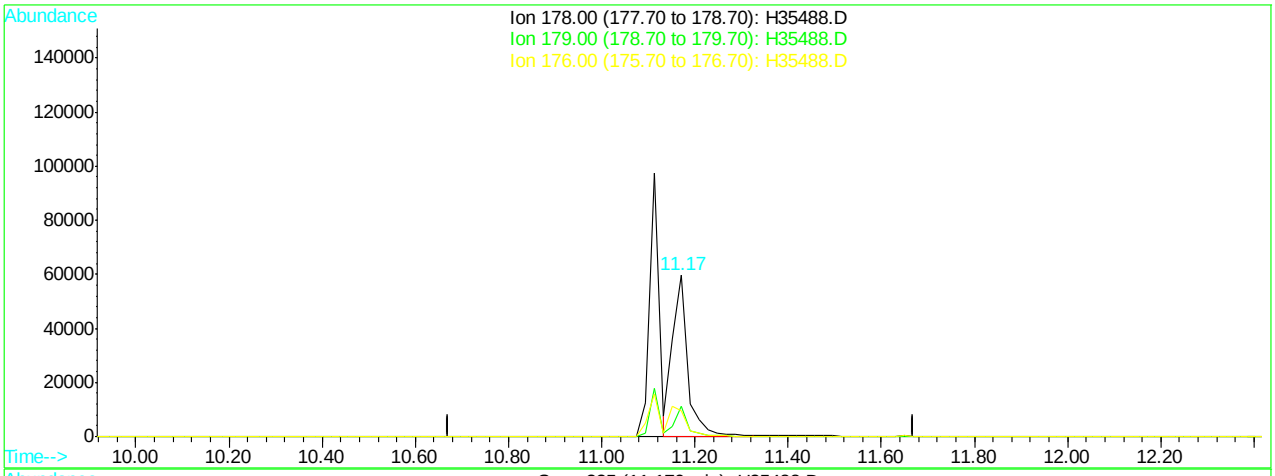
Ion	Exp%	Act%
178.00	100	100
179.00	18.50	18.26
176.00	16.30	16.20
0.00	0.00	0.00

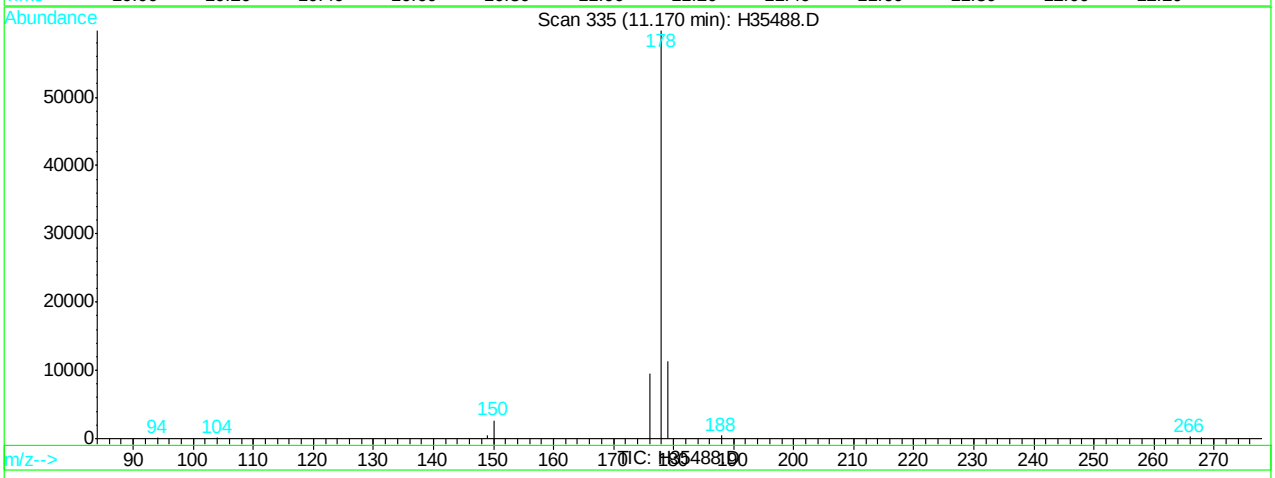
H35488.D H10209SP.M Tue Oct 20 14:46:28 2009

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

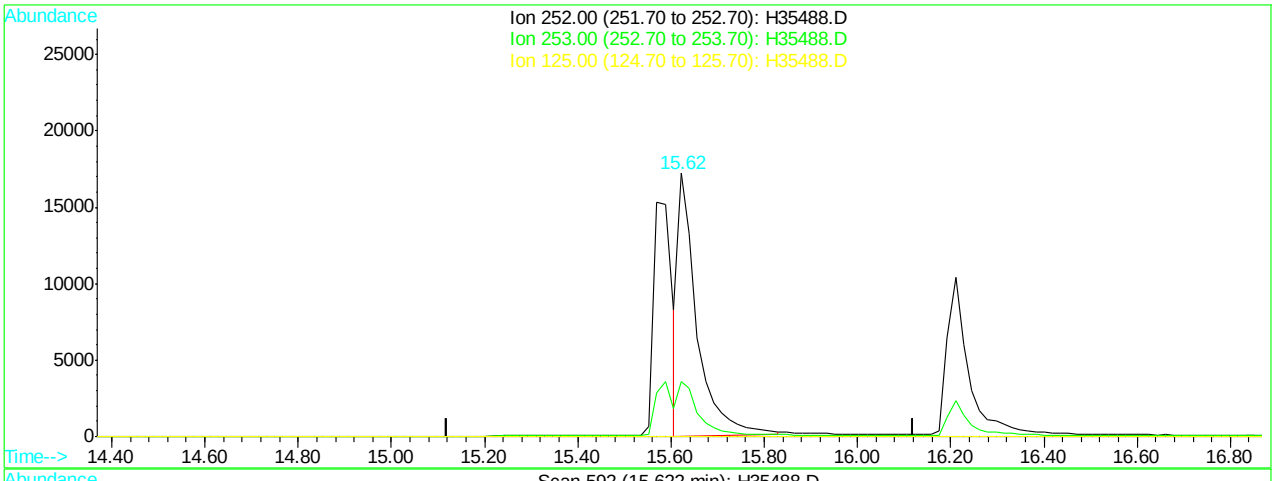
Ion	Exp%	Act%
178.00	100	100
179.00	19.10	18.98
176.00	16.60	16.03
0.00	0.00	0.00

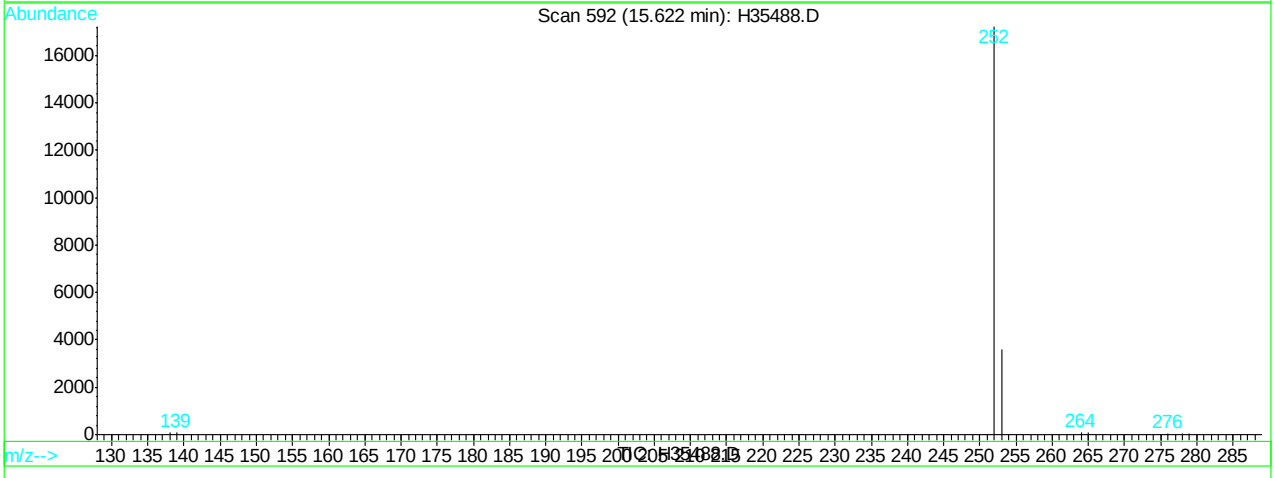
H35488.D H10209SP.M Tue Oct 20 14:46:32 2009

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%#	

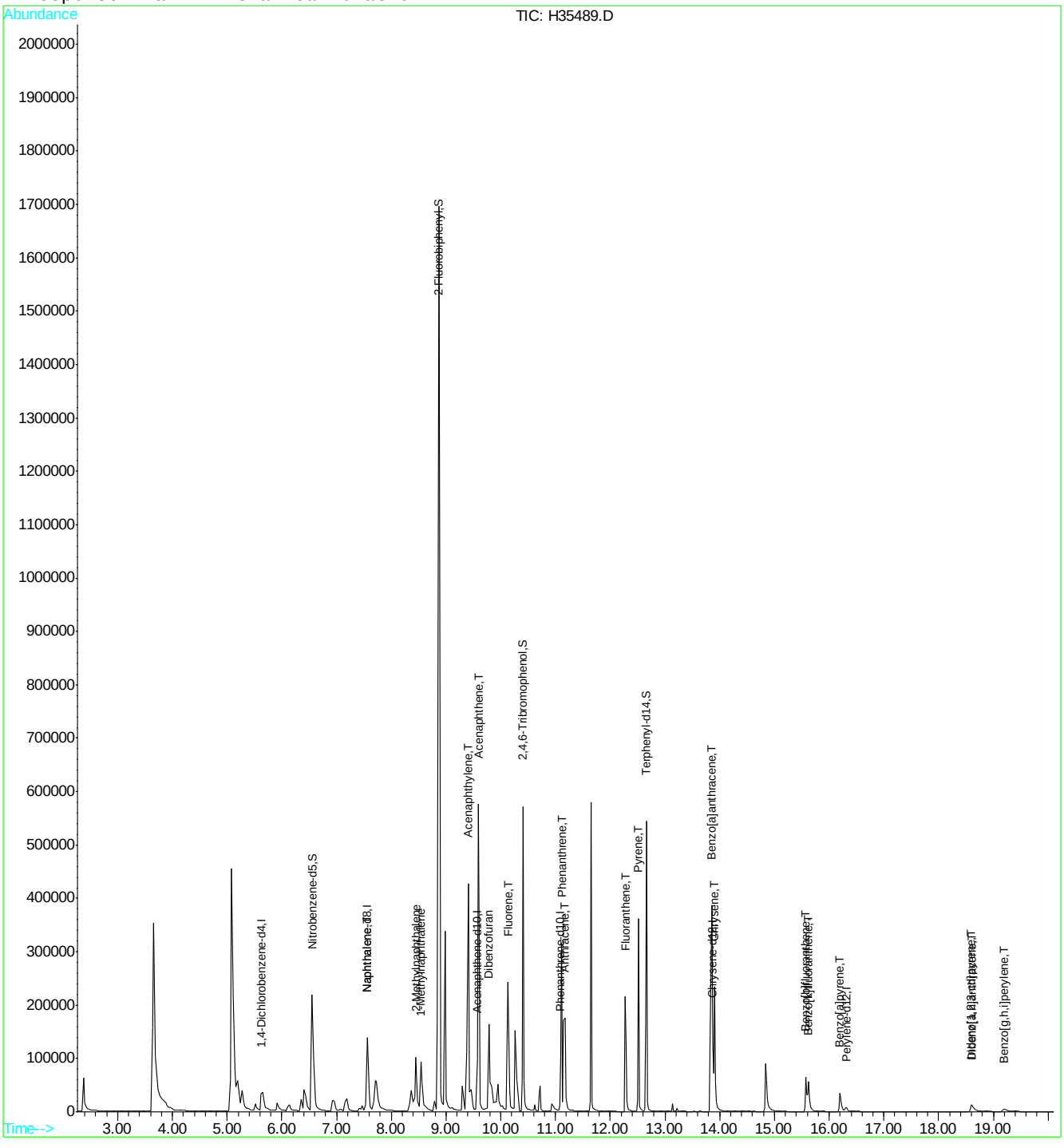
Target Compounds						Qvalue
6) Naphthalene	7.56	128	190628	11.38 ppb		93
7) 2-Methylnaphthalene	8.45	142	129951m	9.07 ppb		
8) 1-Methylnaphthalene	8.54	142	168988	7.94 ppb	#	79
11) Acenaphthylene	9.41	152	540687	10.33 ppb		98
12) Acenaphthene	9.59	153	375516	9.82 ppb		84
13) Dibenzofuran	9.78	168	249836	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

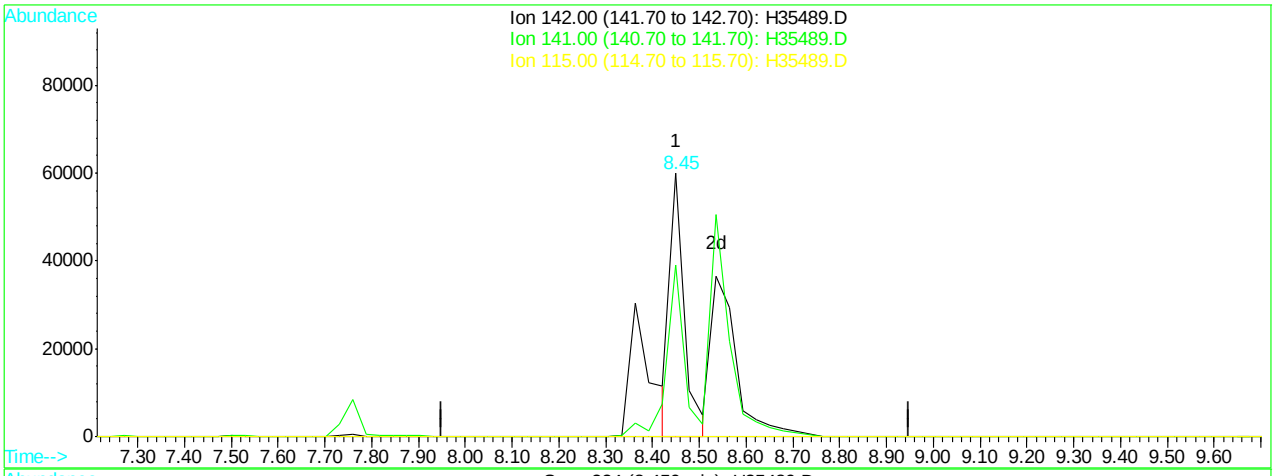
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

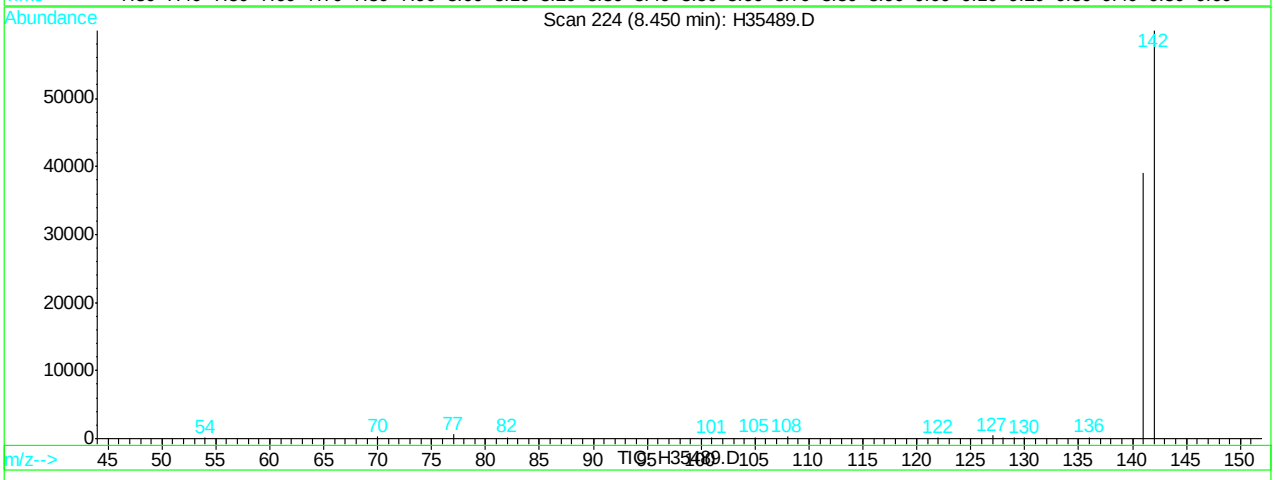


Quantitation Report (Qedit)

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

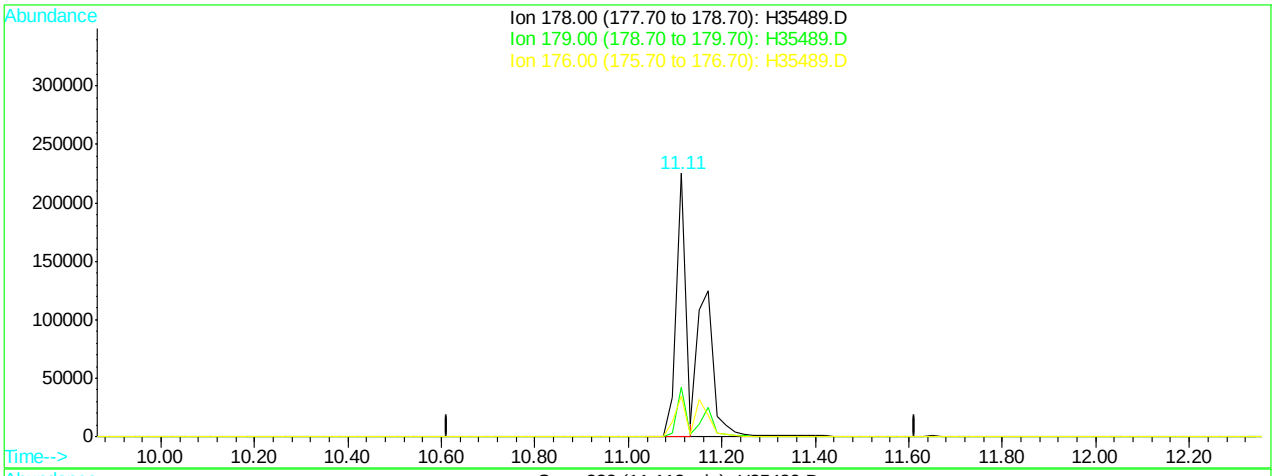
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	80.03
115.00	0.00	0.00
0.00	0.00	0.00

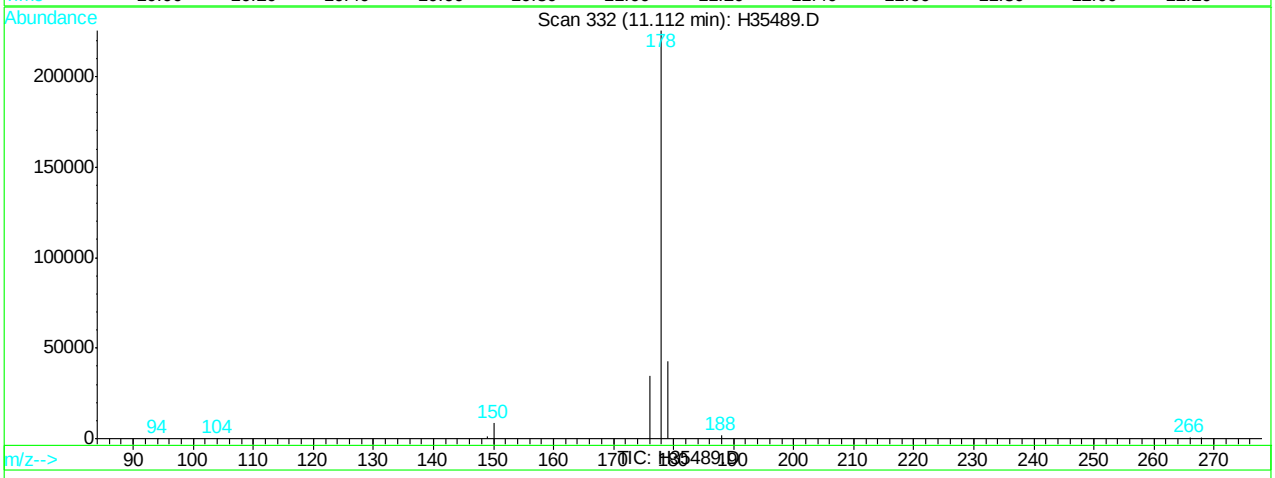
H35489.D H10209SP.M Tue Oct 20 14:48:24 2009

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

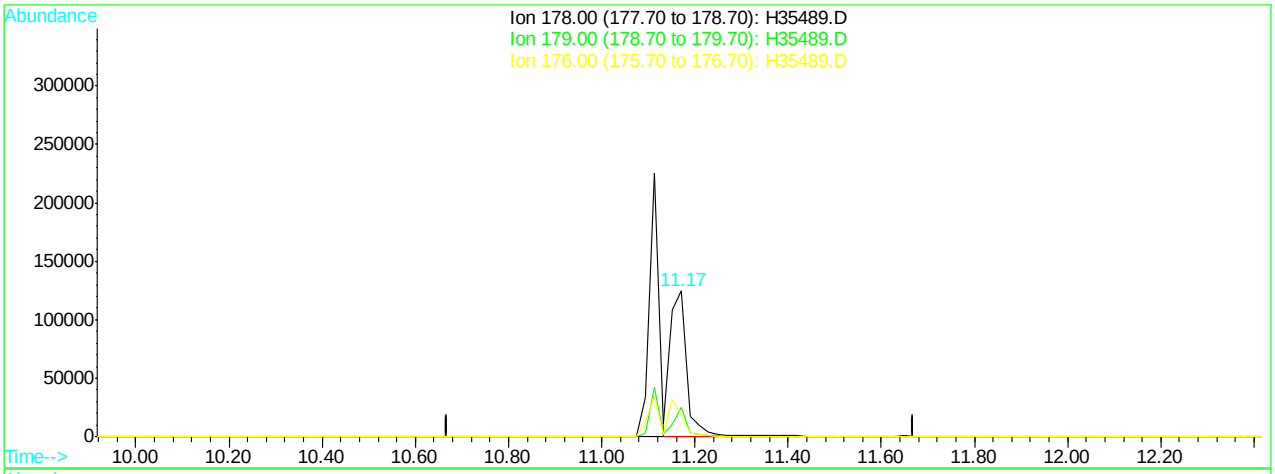
8.6.5.2

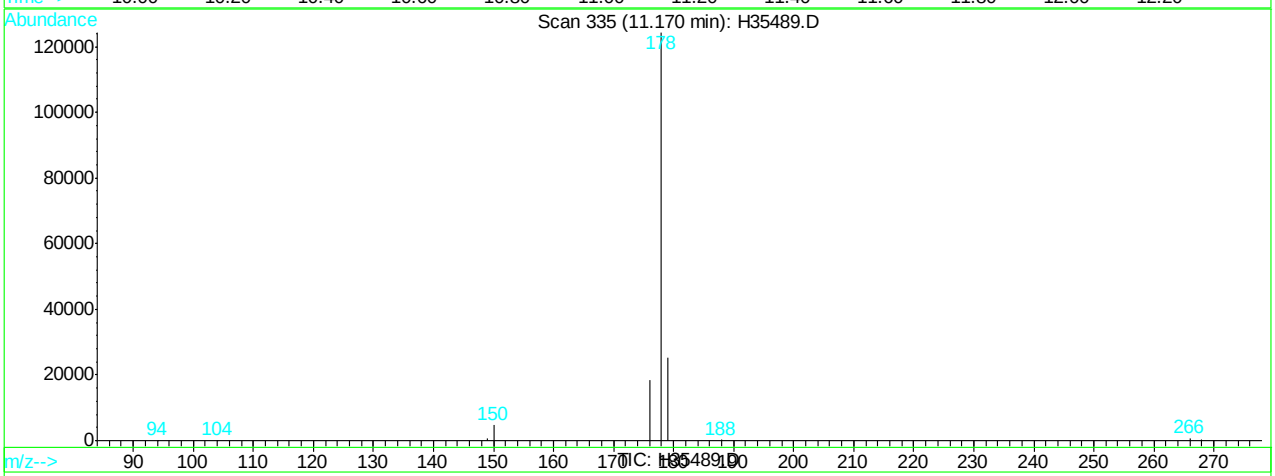
8

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

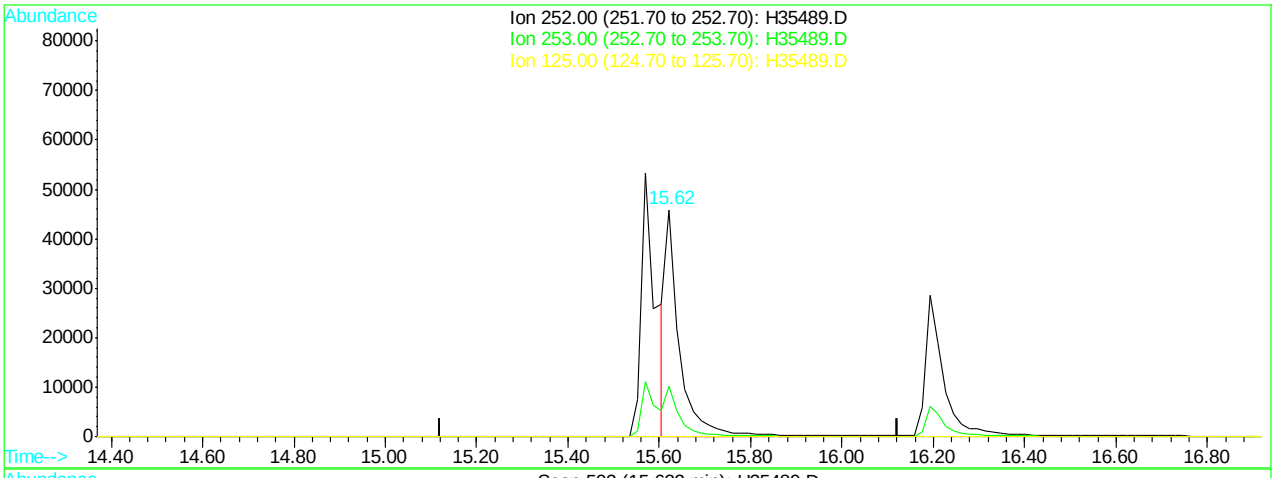
Ion	Exp%	Act%
178.00	100	100
179.00	19.00	20.37
176.00	16.00	14.86
0.00	0.00	0.00

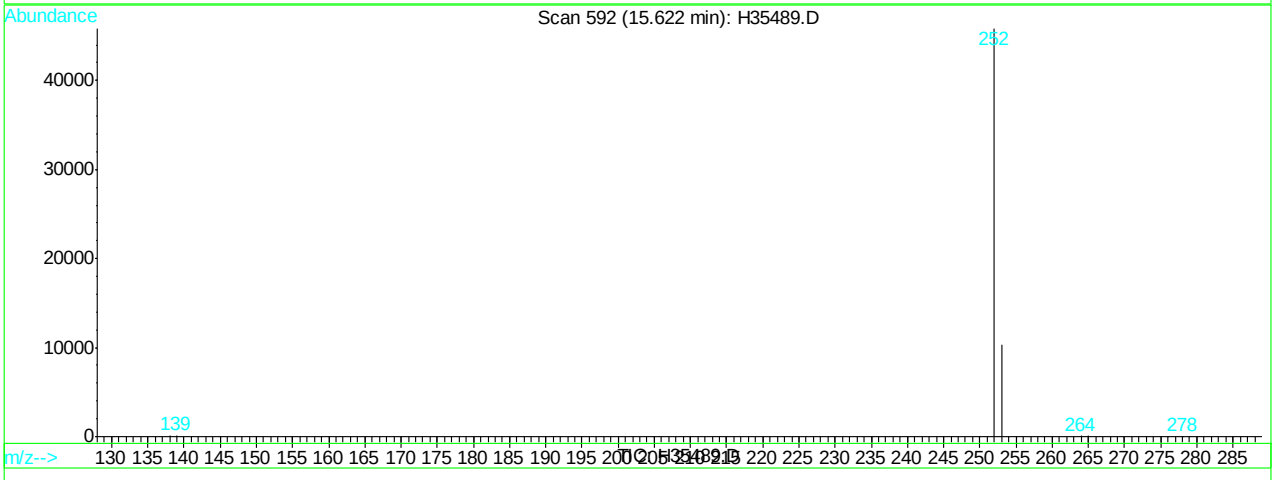
H35489.D H10209SP.M Tue Oct 20 14:48:32 2009

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%#			

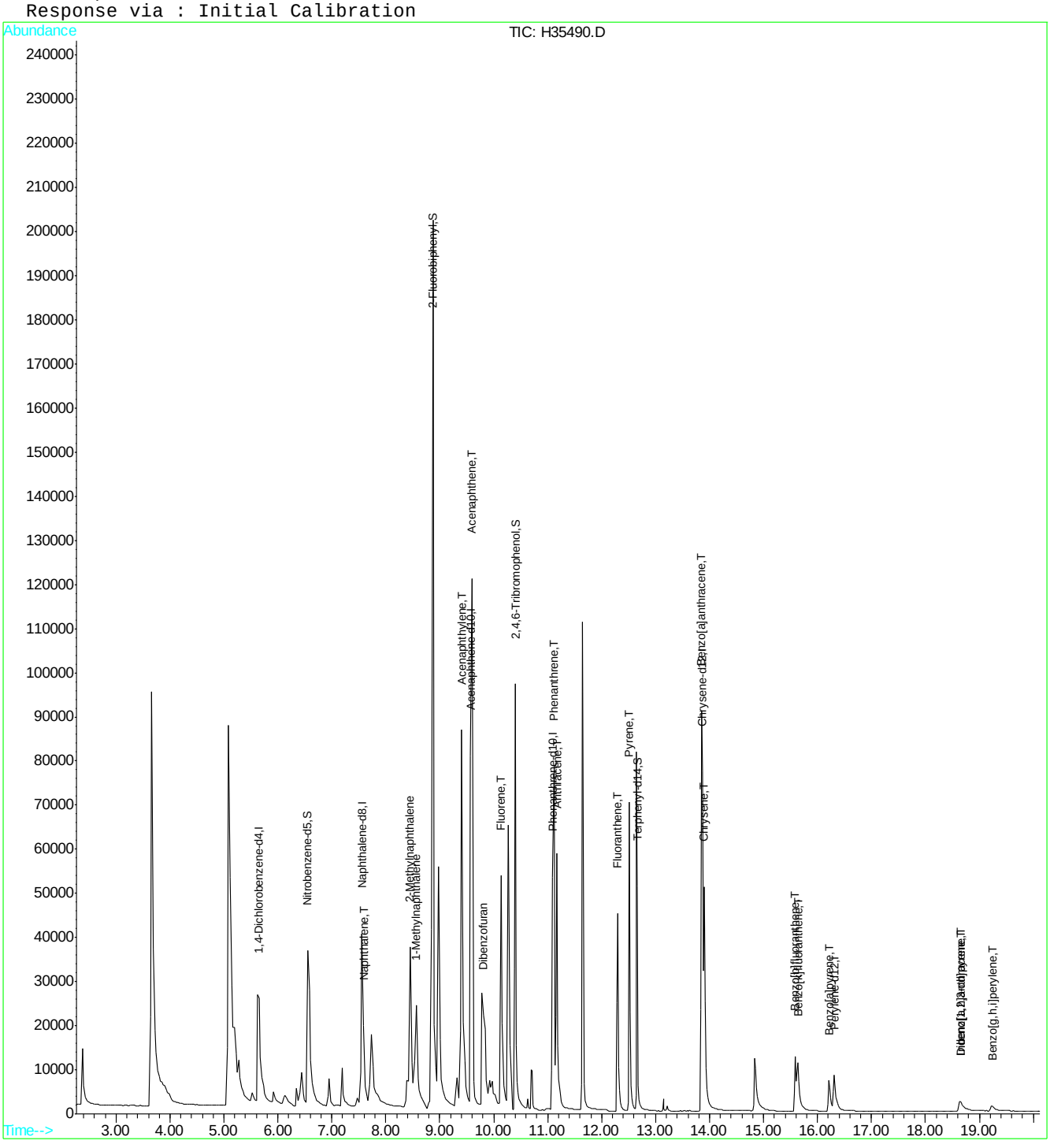
Target Compounds						Qvalue
6) Naphthalene	7.59	128	48873	2.40	ppb #	78
7) 2-Methylnaphthalene	8.45	142	51835m	2.85	ppb	
8) 1-Methylnaphthalene	8.56	142	54064	2.16	ppb #	95
11) Acenaphthylene	9.41	152	118344	2.63	ppb	96
12) Acenaphthene	9.60	153	77080	2.25	ppb	95
13) Dibenzofuran	9.81	168	58455	2.02	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

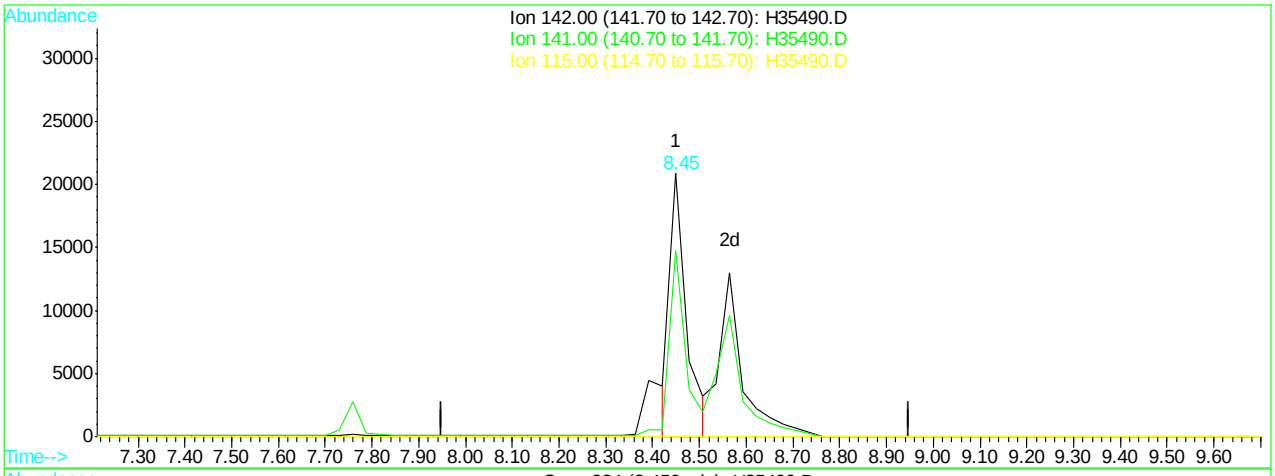
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

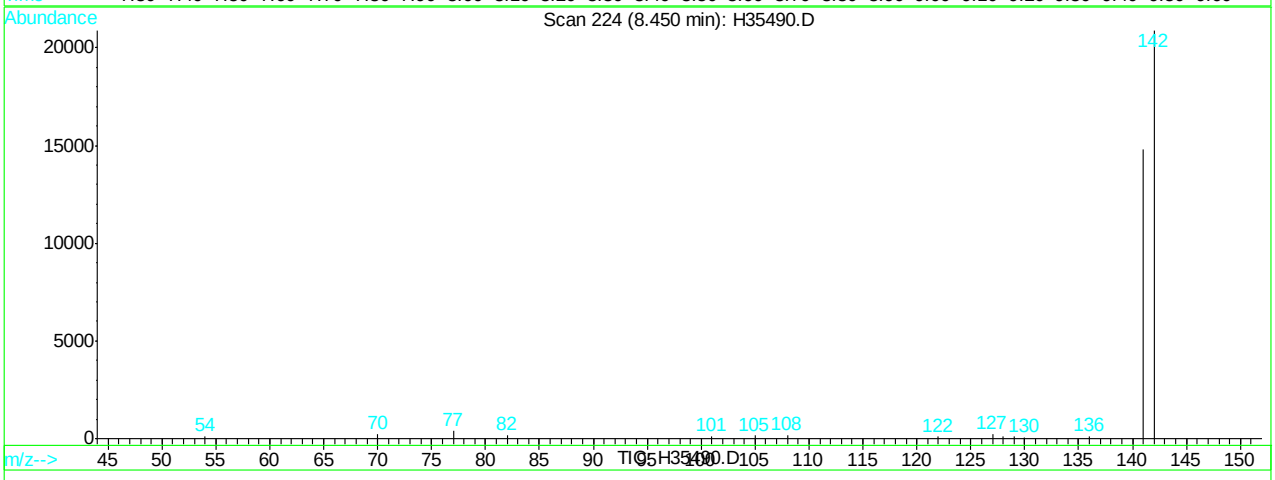


Quantitation Report (Qedit)

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

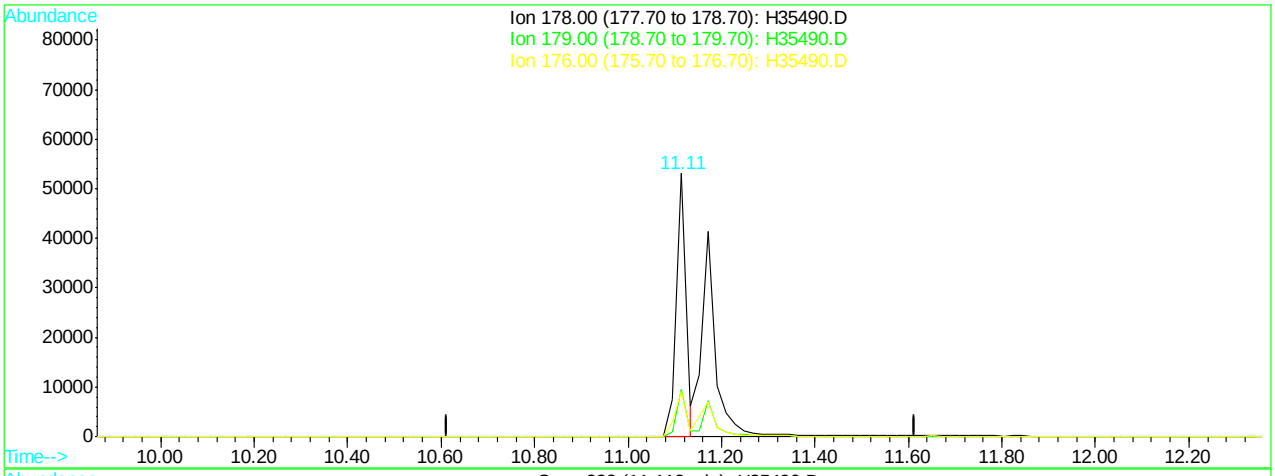
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	71.03
115.00	0.00	0.00
0.00	0.00	0.00

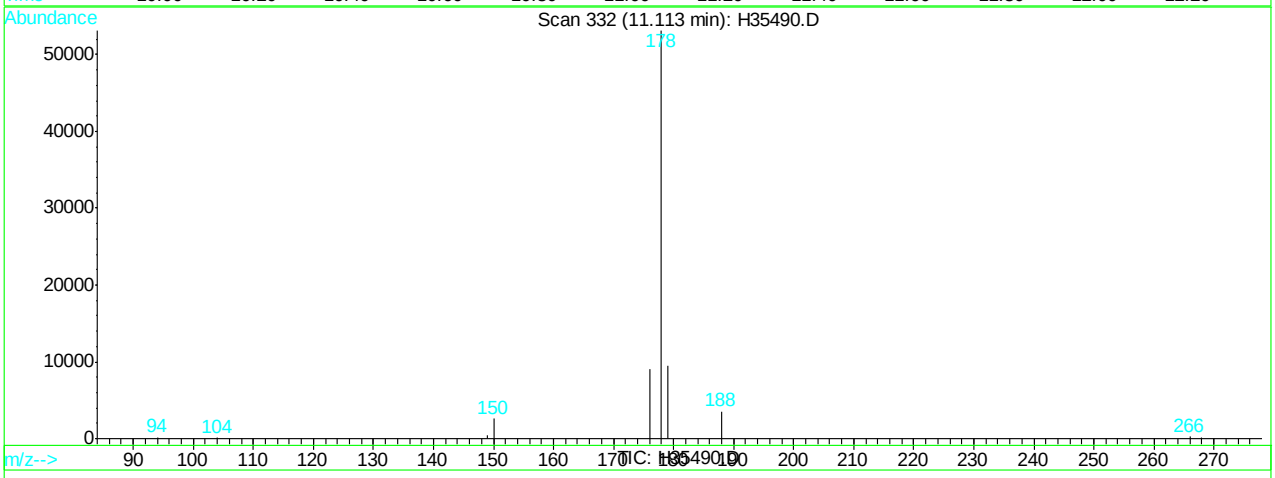
H35490.D H10209SP.M Tue Oct 20 14:49:38 2009

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

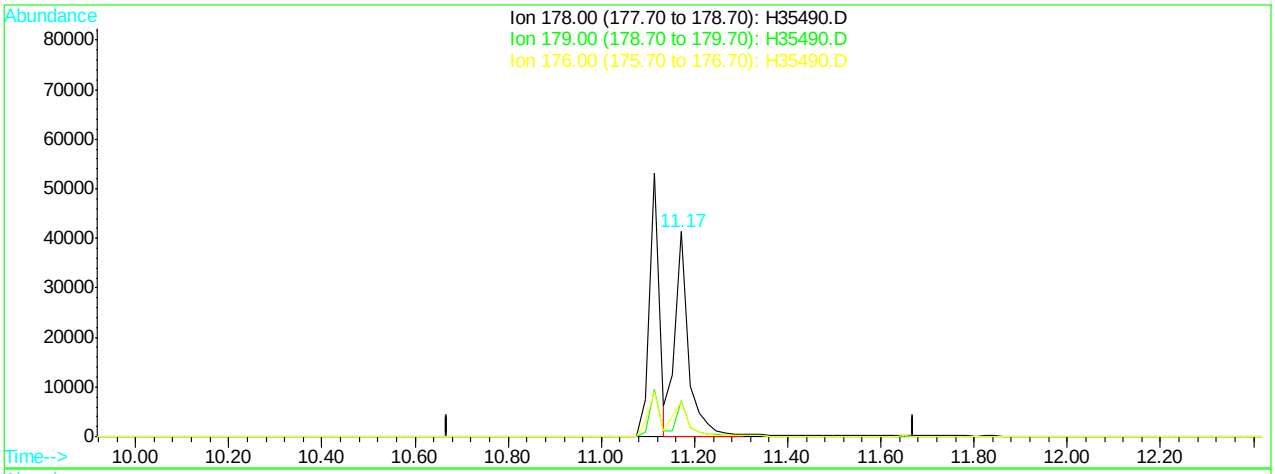
Ion	Exp%	Act%
178.00	100	100
179.00	18.50	17.80
176.00	16.30	17.06
0.00	0.00	0.00

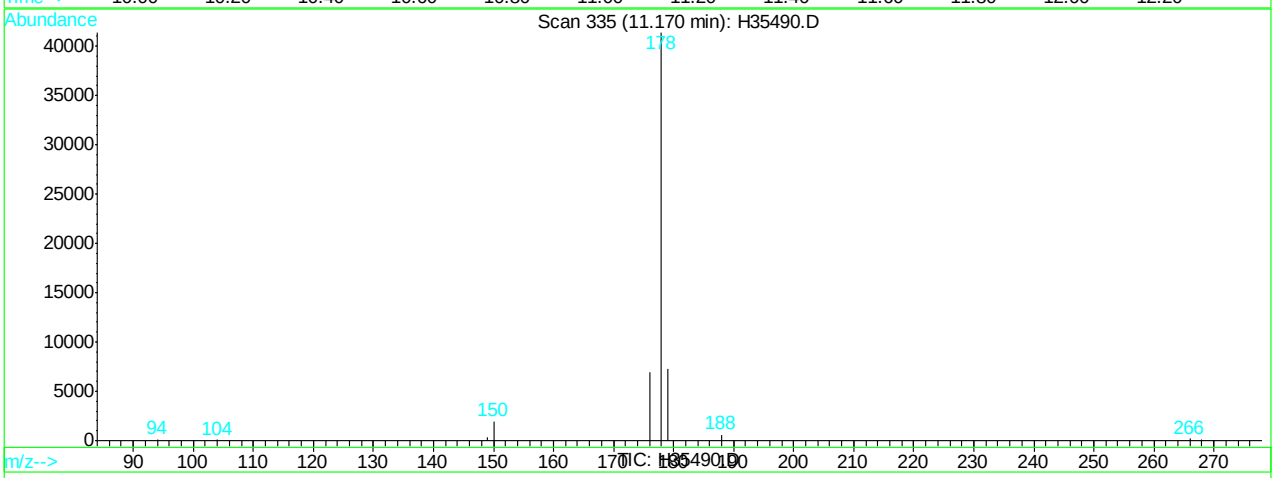
H35490.D H10209SP.M Tue Oct 20 14:49:42 2009

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

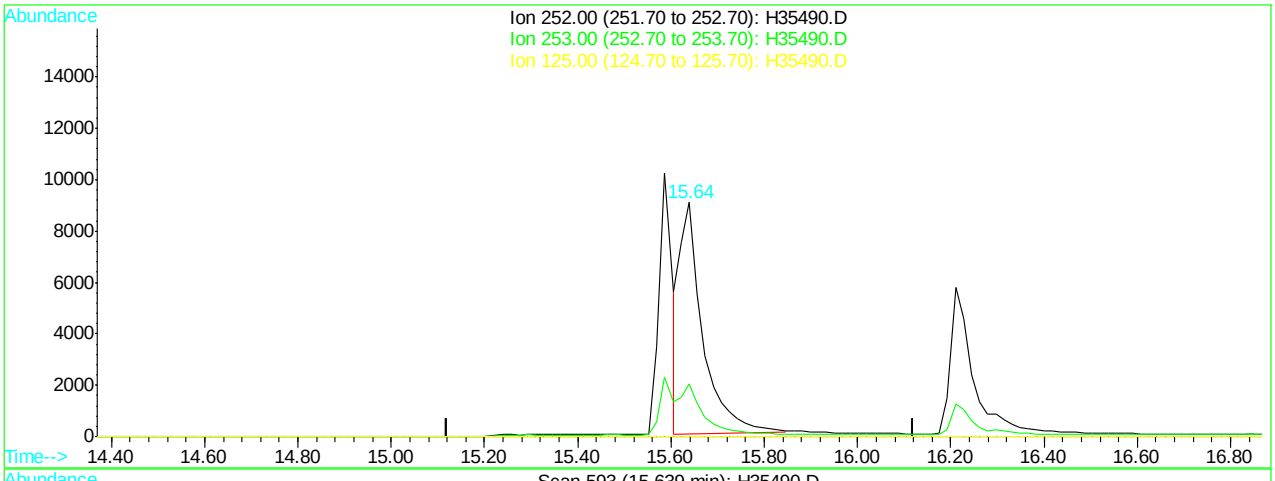
Ion	Exp%	Act%
178.00	100	100
179.00	19.10	17.63
176.00	16.60	16.74
0.00	0.00	0.00

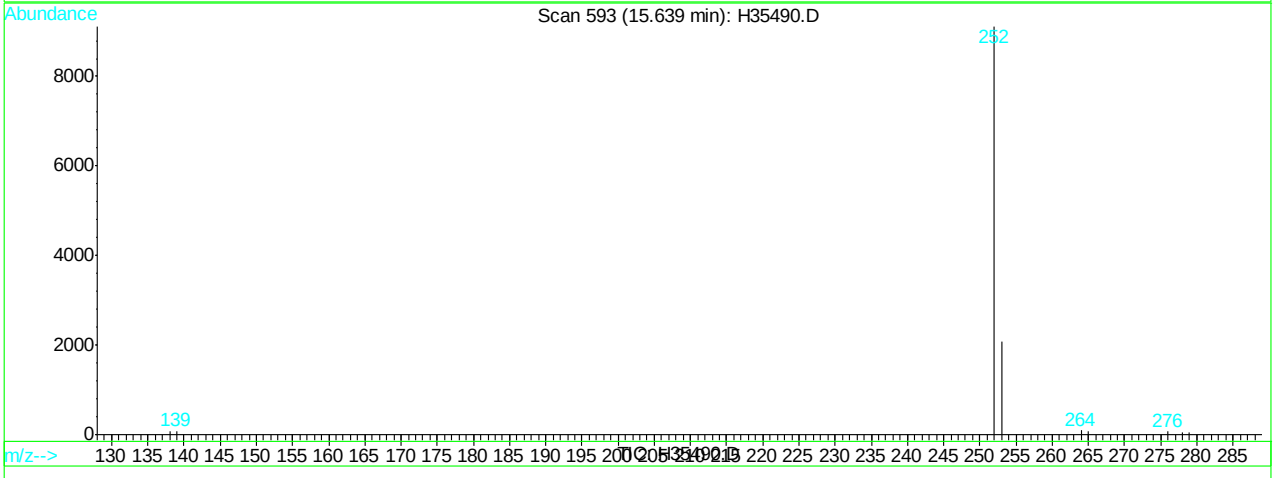
H35490.D H10209SP.M Tue Oct 20 14:49:46 2009

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%#	

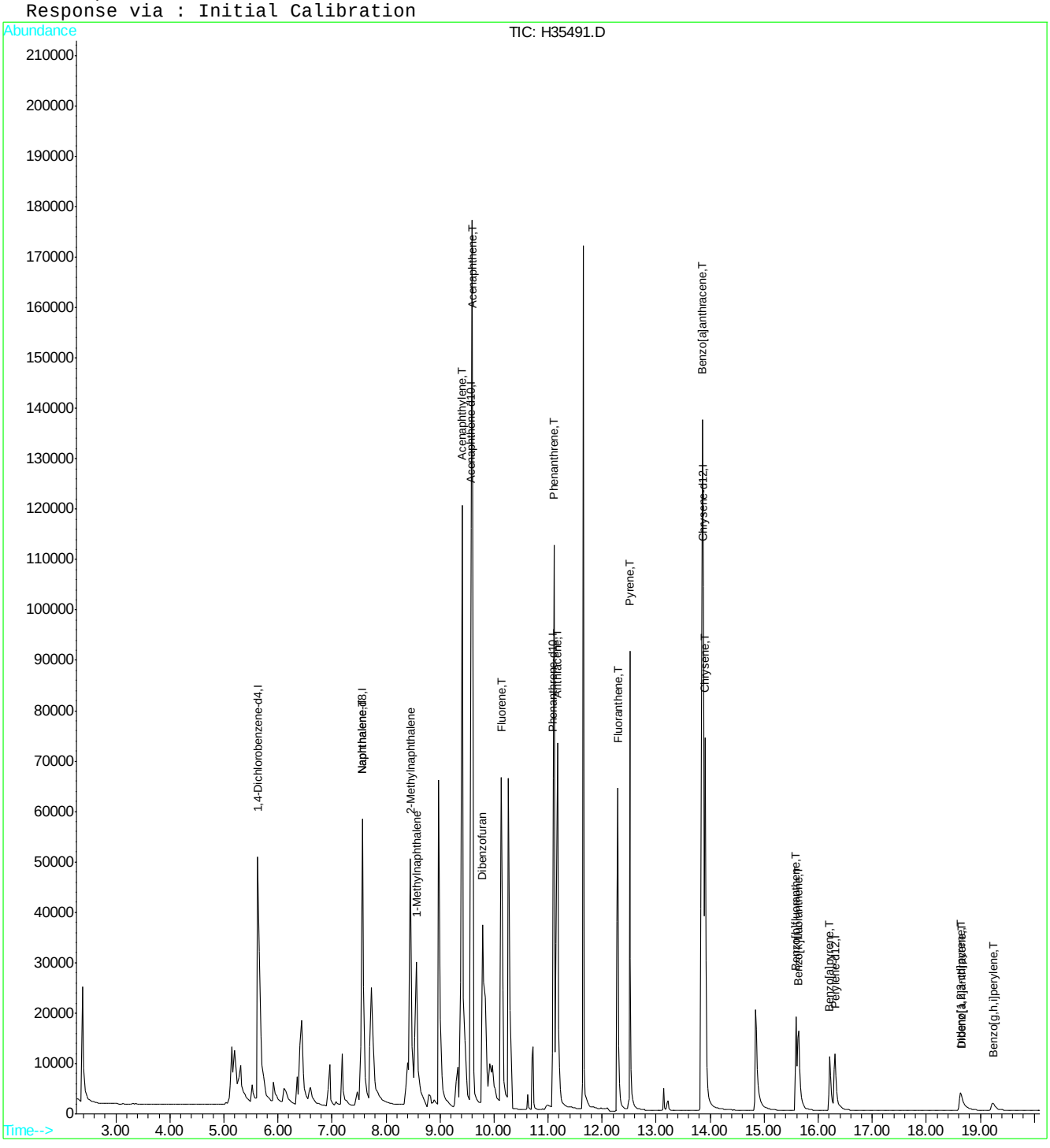
Target Compounds						Qvalue
6) Naphthalene	7.56	128	60971	2.15 ppb	#	72
7) 2-Methylnaphthalene	8.45	142	67247m	2.22 ppb		
8) 1-Methylnaphthalene	8.56	142	63278	1.98 ppb	#	98
11) Acenaphthylene	9.41	152	160795	2.58 ppb		99
12) Acenaphthene	9.60	153	113674	2.39 ppb		94
13) Dibenzofuran	9.78	168	72102	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

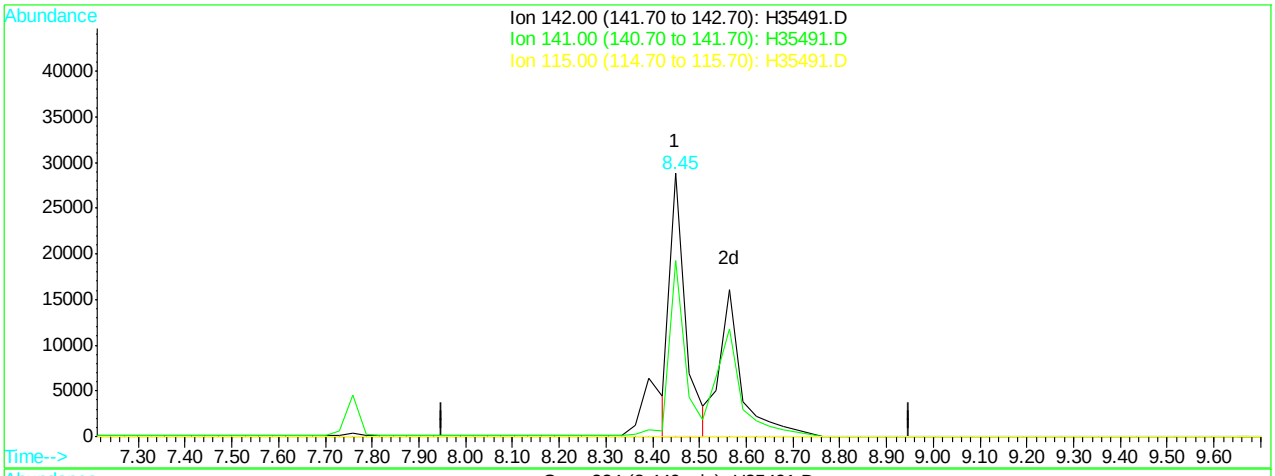
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Initial Calibration

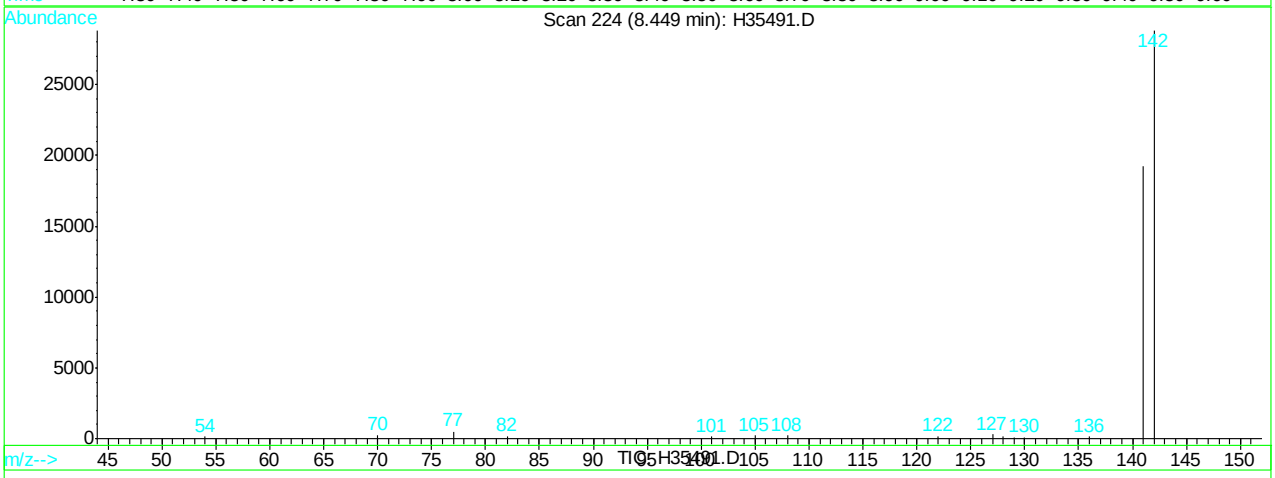


Quantitation Report (Qedit)

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

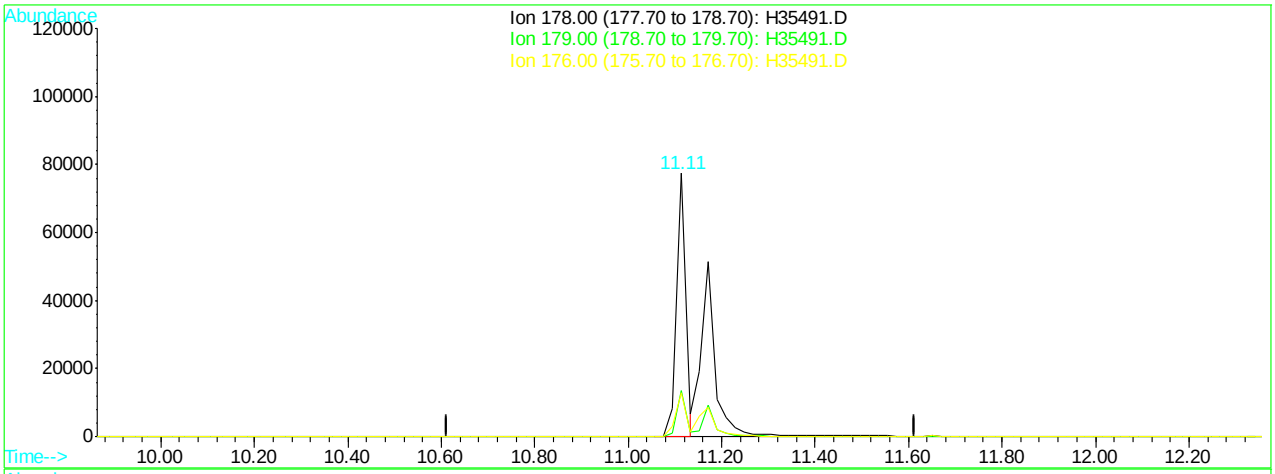
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	68.94
115.00	0.00	0.00
0.00	0.00	0.00

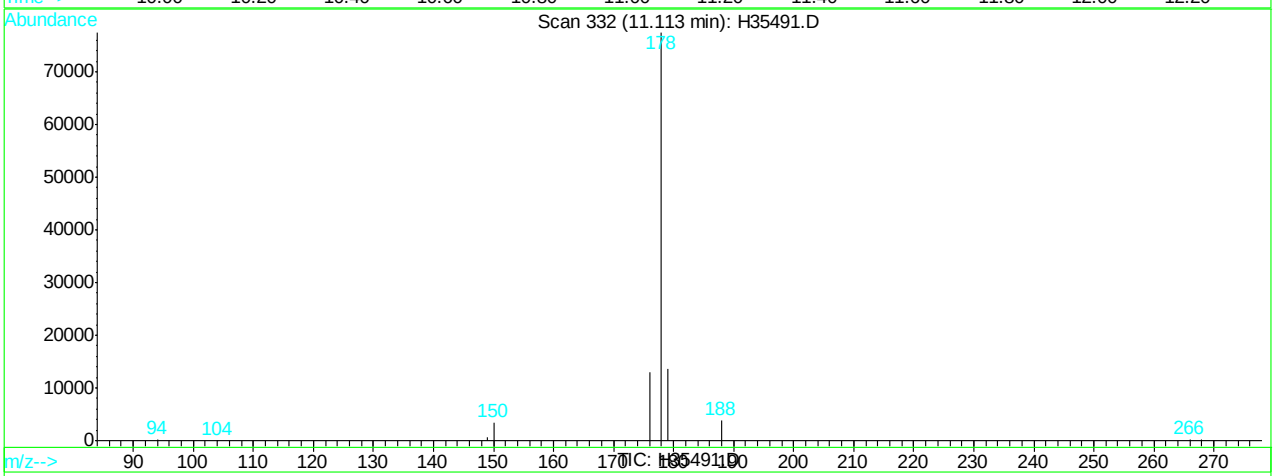
H35491.D H10209SP.M Tue Oct 20 14:50:19 2009

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

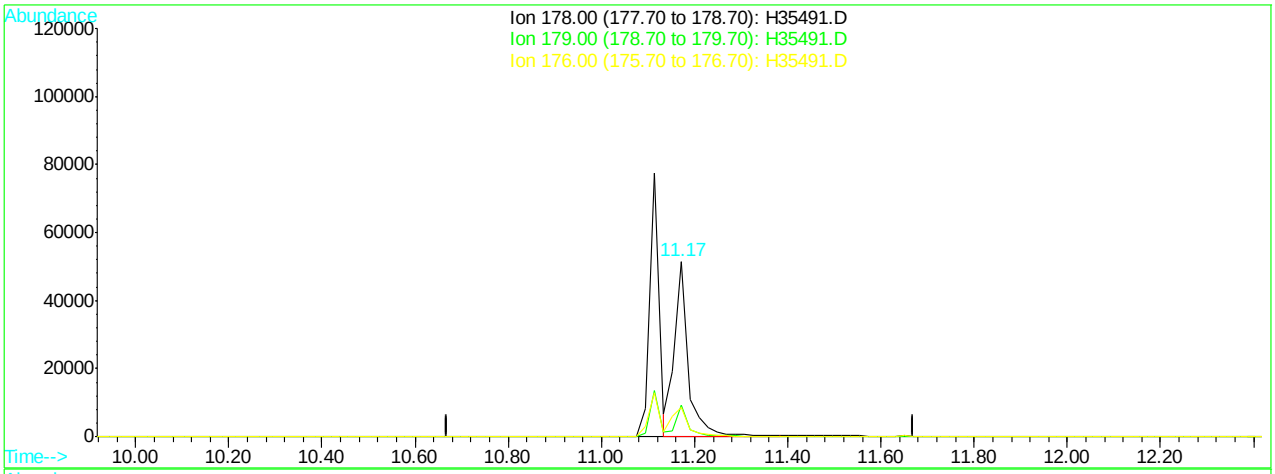
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	17.58
176.00	17.10	16.76
0.00	0.00	0.00

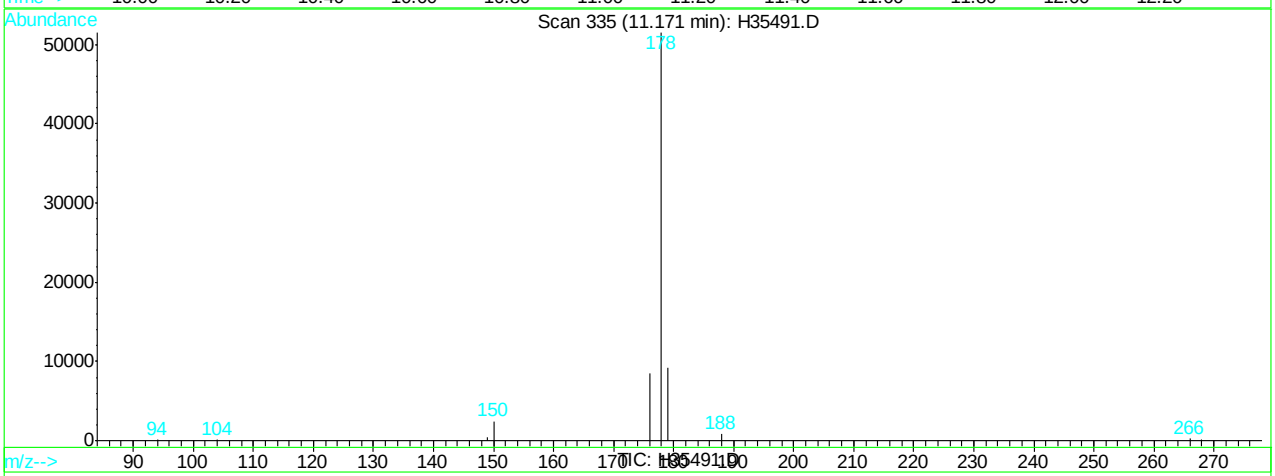
H35491.D H10209SP.M Tue Oct 20 14:50:24 2009

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

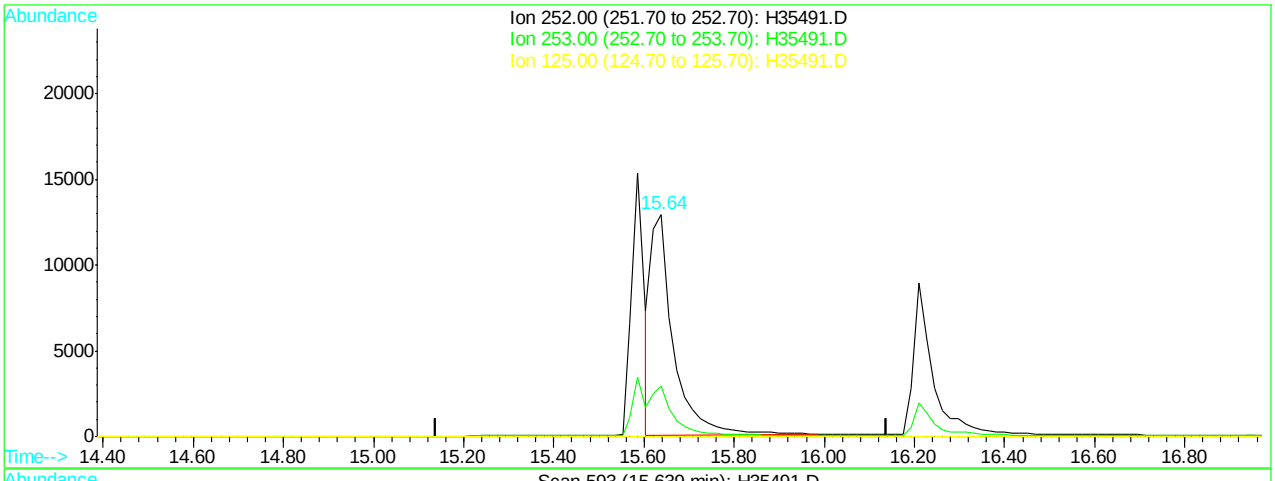
Ion	Exp%	Act%
178.00	100	100
179.00	17.60	17.97
176.00	16.70	16.37
0.00	0.00	0.00

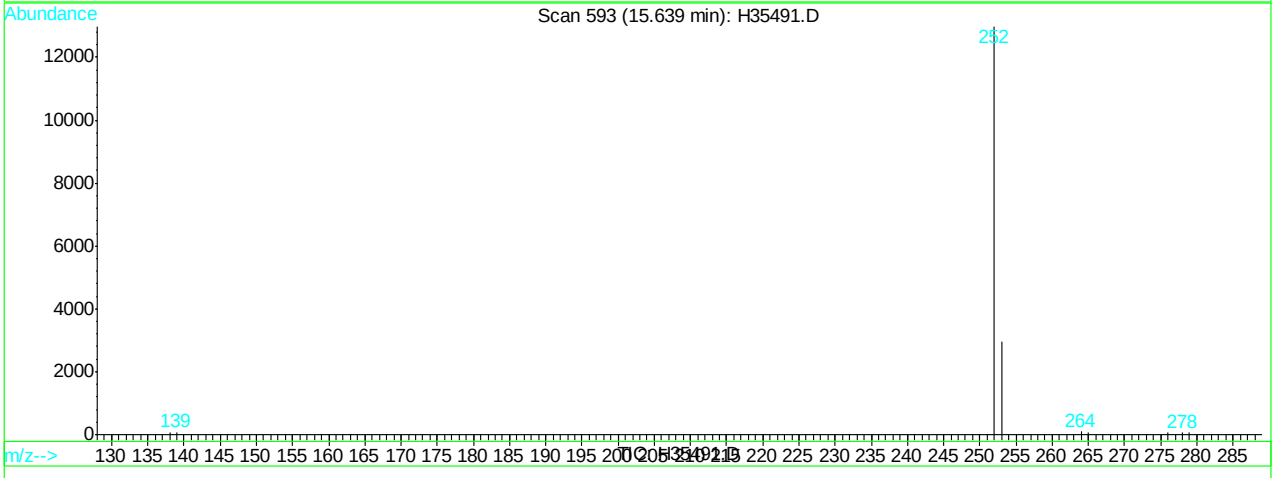
H35491.D H10209SP.M Tue Oct 20 14:50:28 2009

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
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	74952	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	71607	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	63482	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	78072	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	38772	4.00	ppb	0.02
26) Perylene-d12	16.35	264	6173	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	49051	8.44	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 168.80%#			
10) 2-Fluorobiphenyl	8.87	172	511620	13.35	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 267.00%#			
16) 2,4,6-Tribromophenol	10.40	330	78101	19.30	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 193.00%#			
23) Terphenyl-d14	12.66	244	88294	18.13	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 362.60%#			

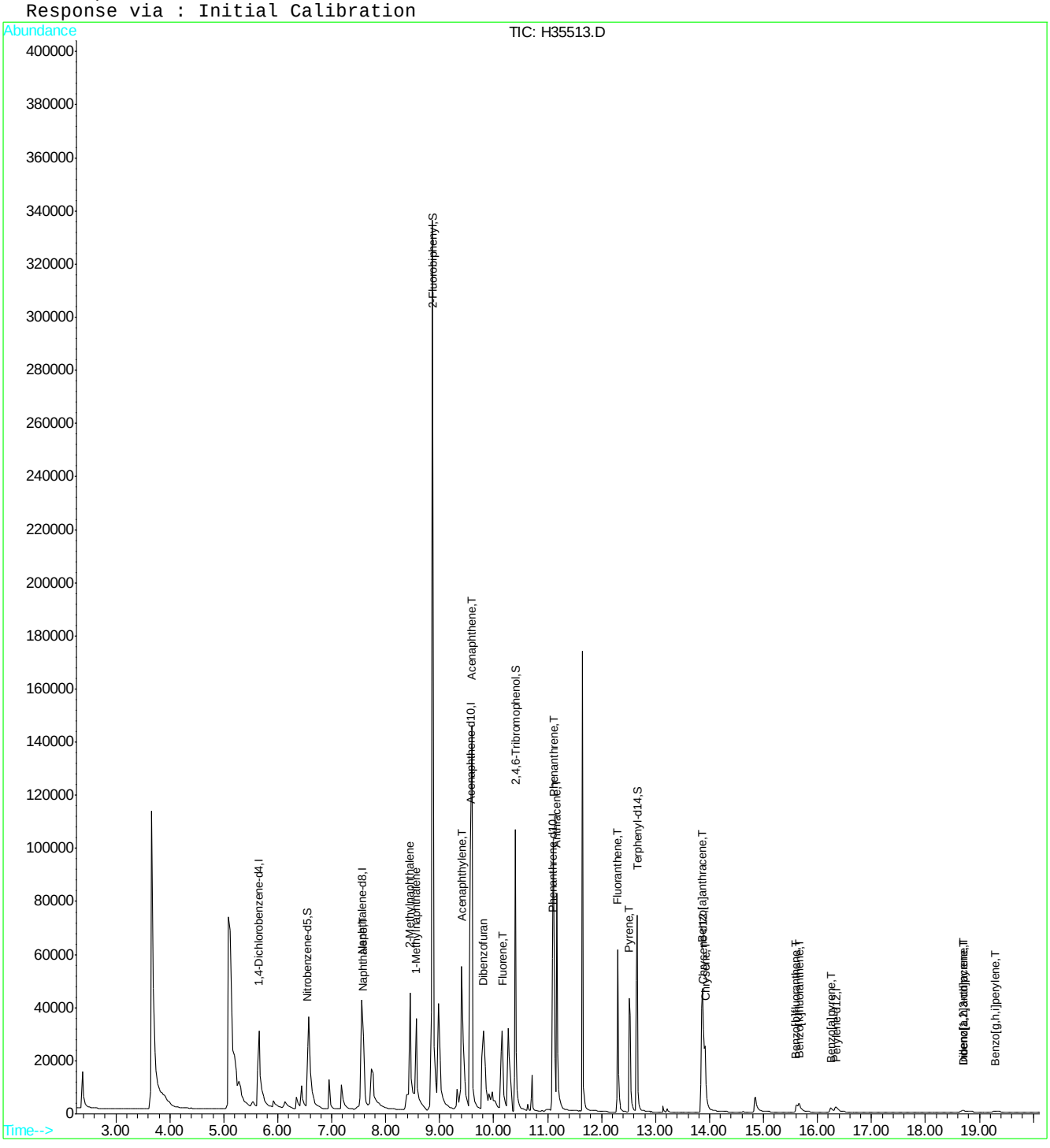
Target Compounds							Qvalue
6) Naphthalene	7.59	128	43283	1.48	ppb		99
7) 2-Methylnaphthalene	8.45	142	65977m	2.68	ppb		
8) 1-Methylnaphthalene	8.56	142	64152	1.79	ppb	#	89
11) Acenaphthylene	9.41	152	87398	1.76	ppb		91
12) Acenaphthene	9.60	153	95669	2.53	ppb		85
13) Dibenzofuran	9.81	168	53398	1.67	ppb	#	70
14) Fluorene	10.16	166	34478	1.45	ppb	#	47
18) Phenanthrene	11.11	178	96007	2.28	ppb		93
19) Anthracene	11.17	178	100198	2.25	ppb		97
20) Fluoranthene	12.30	202	91180	2.16	ppb		97
22) Pyrene	12.51	202	82372m	3.75	ppb		
24) Benzo[a]anthracene	13.87	228	31362	2.21	ppb		93
25) Chrysene	13.92	228	42086m	2.98	ppb		
27) Benzo[b]fluoranthene	15.60	252	6902m	2.87	ppb		
28) Benzo[k]fluoranthene	15.66	252	11509m	3.47	ppb		
29) Benzo[a]pyrene	16.24	252	5949	2.99	ppb		100
30) Indeno[1,2,3-cd]pyrene	18.70	276	2167	3.20	ppb		96
31) Dibenz[a,h]anthracene	18.70	278	1360	3.23	ppb		98
32) Benzo[g,h,i]perylene	19.29	276	1902	3.89	ppb		96

(#) = qualifier out of range (m) = manual integration
H35513.D H10229SP.M Thu Oct 22 13:27:55 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: H10219SP.RES

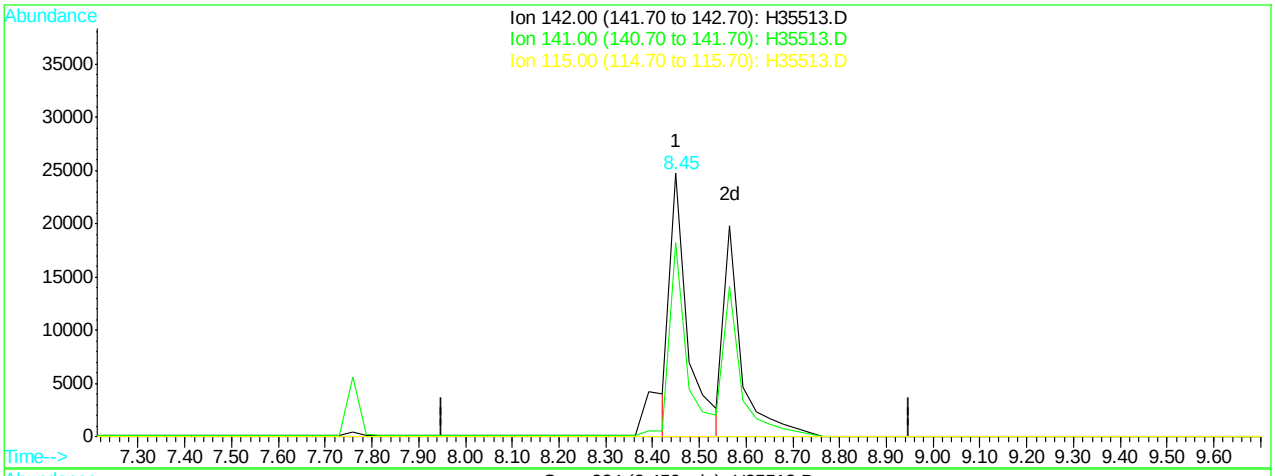
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

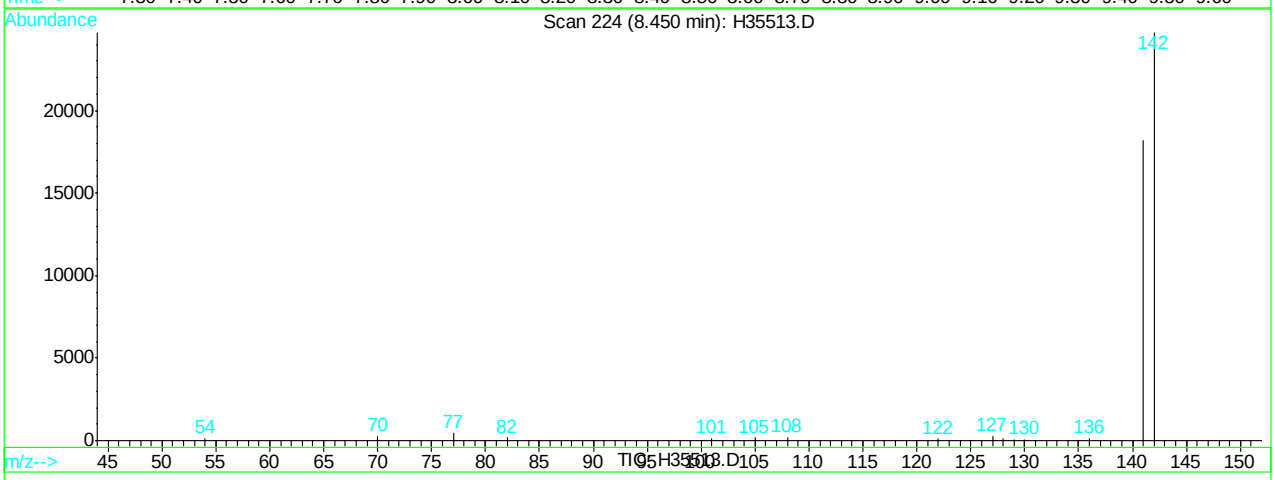


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.68ppb m

response 65977

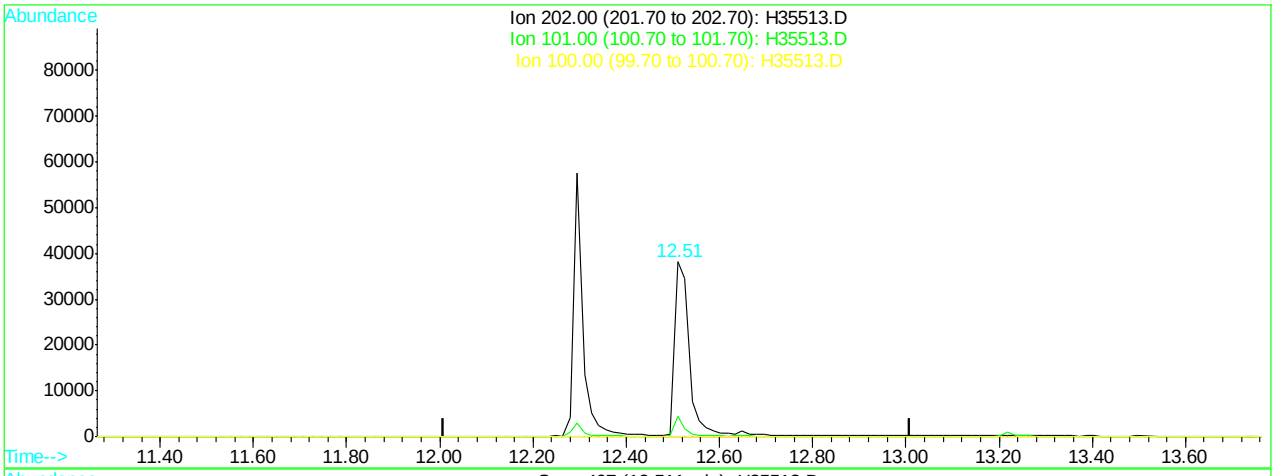
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	72.38
115.00	0.00	0.00
0.00	0.00	0.00

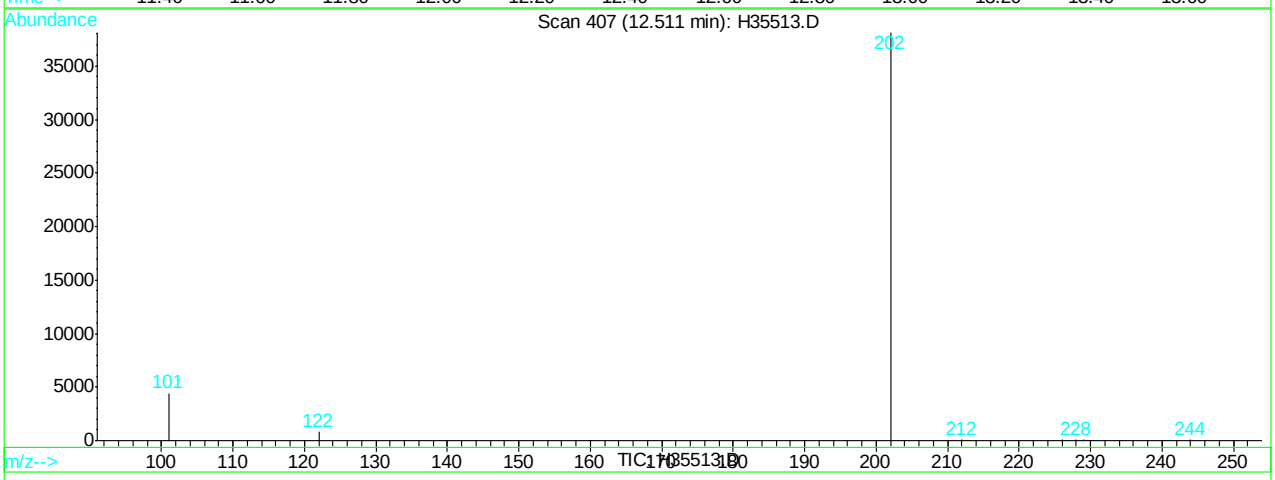
H35513.D H10229SP.M Thu Oct 22 13:28:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.51min 3.75ppb m

response 82372

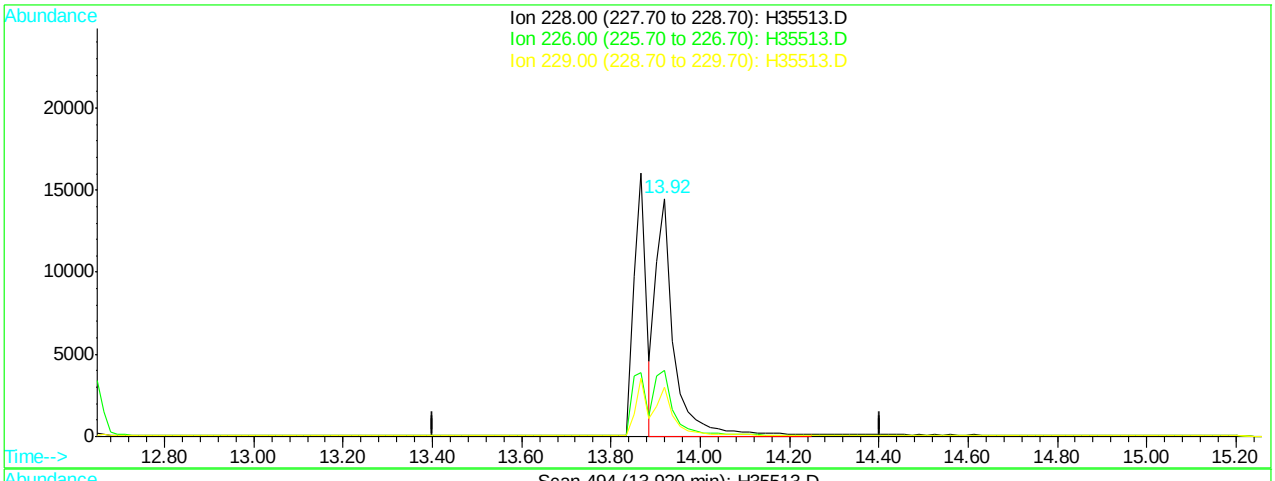
Ion	Exp%	Act%
202.00	100	100
101.00	6.90	11.68#
100.00	0.00	0.00
0.00	0.00	0.00

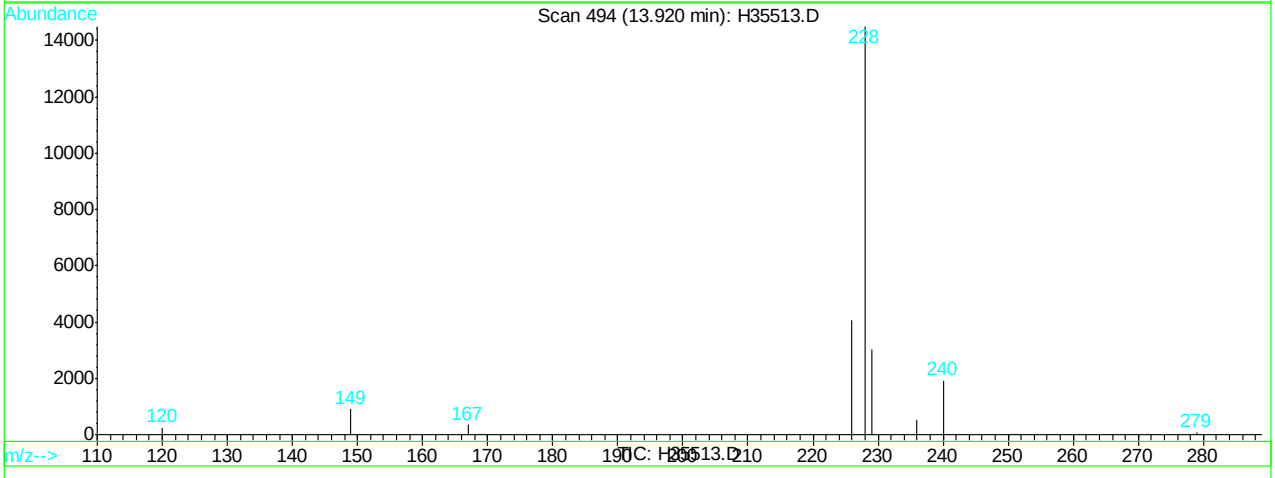
H35513.D H10229SP.M Thu Oct 22 13:28:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 2.98ppb m

response 42086

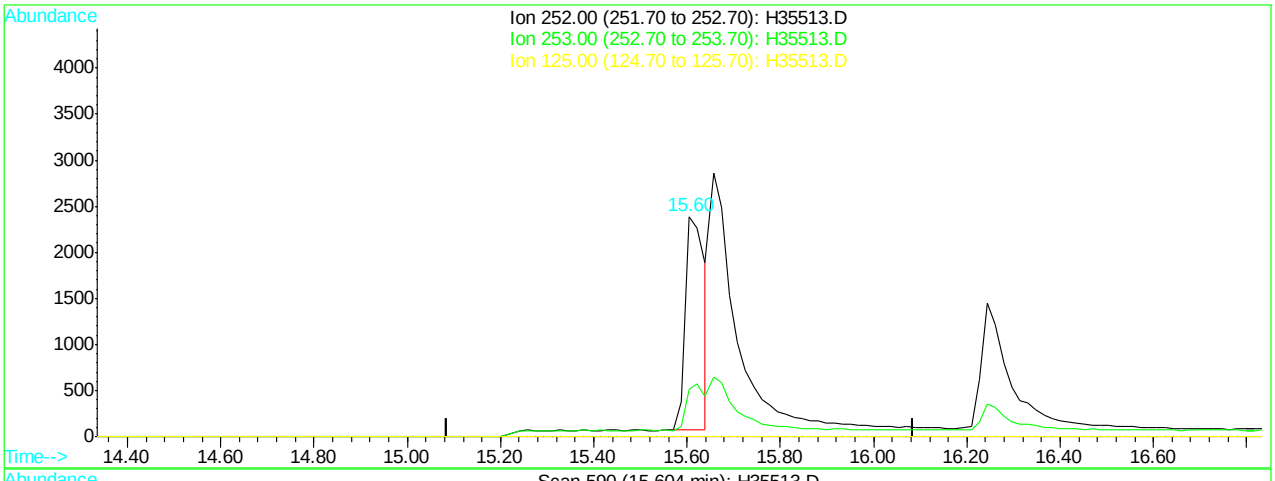
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	27.96
229.00	19.10	20.88
0.00	0.00	0.00

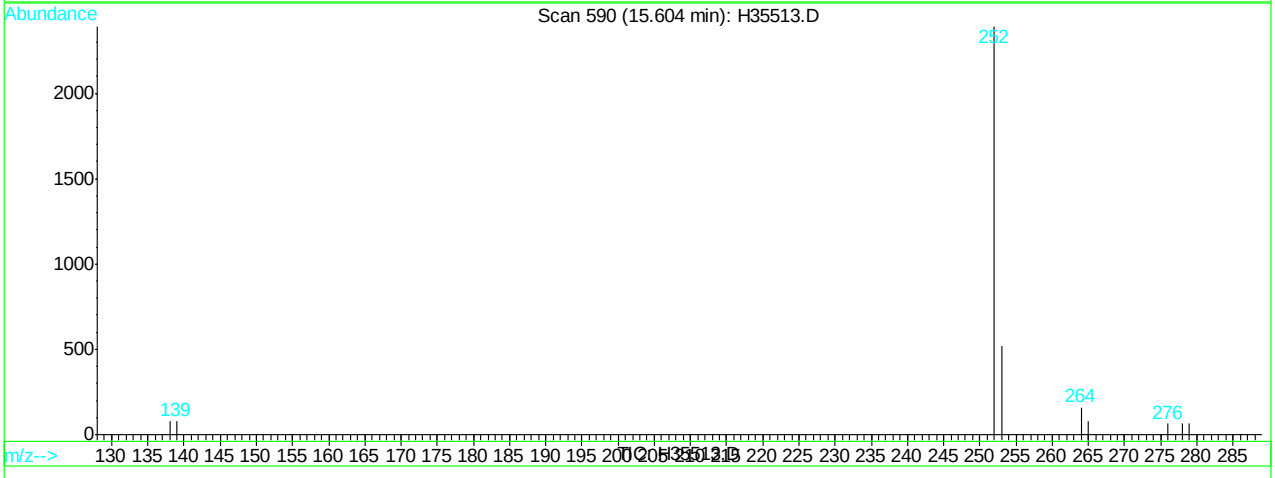
H35513.D H10229SP.M Thu Oct 22 13:28:27 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.60min 2.87ppb m

response 6902

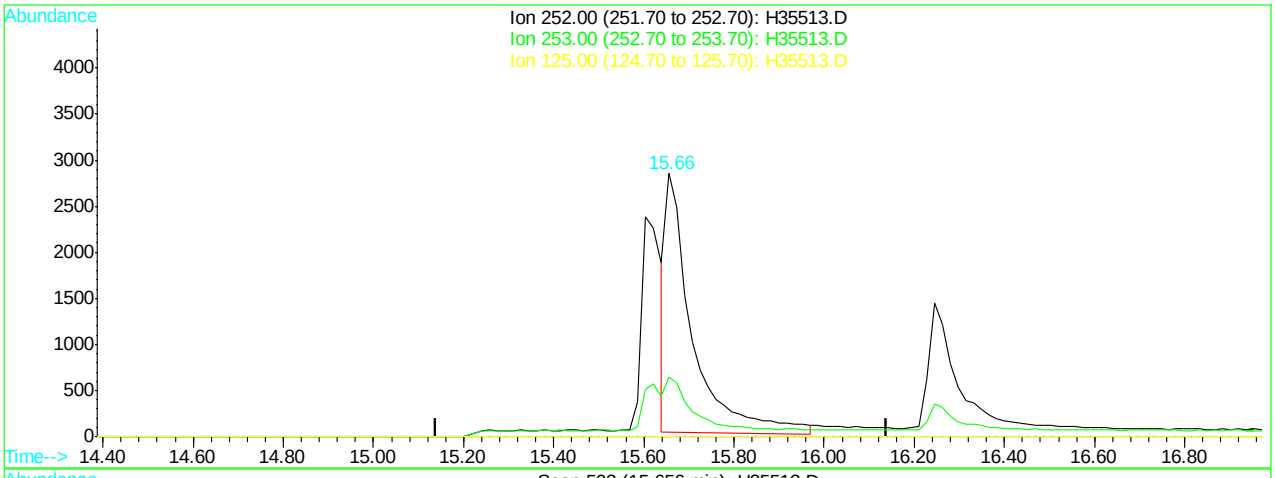
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.58
125.00	0.00	0.00
0.00	0.00	0.00

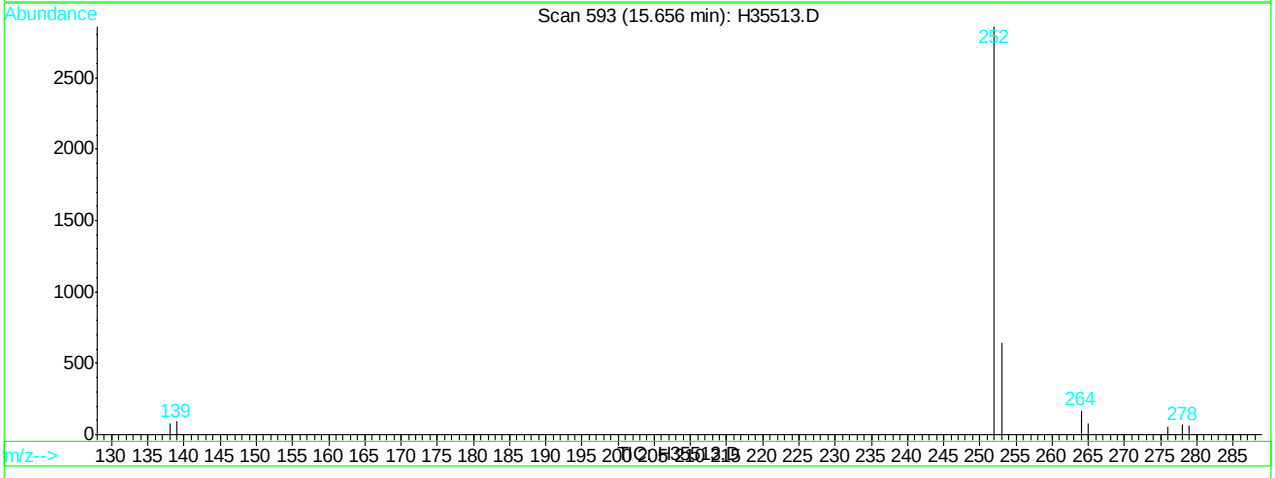
H35513.D H10229SP.M Thu Oct 22 13:28:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 3.47ppb m

response 11509

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.46
125.00	0.00	0.00
0.00	0.00	0.00

H35513.D H10229SP.M Thu Oct 22 13:28:33 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	78298	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	76607	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	62834	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	83309	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	36240	4.00	ppb	0.02
26) Perylene-d12	16.35	264	8919	4.00	ppb	0.04
System Monitoring Compounds						
5) Nitrobenzene-d5	6.58	82	19091	3.07	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	61.40%	
10) 2-Fluorobiphenyl	8.87	172	202432	5.34	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	106.80%	
16) 2,4,6-Tribromophenol	10.40	330	28422	6.58	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	65.80%	
23) Terphenyl-d14	12.66	244	35516	7.80	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	156.00%	

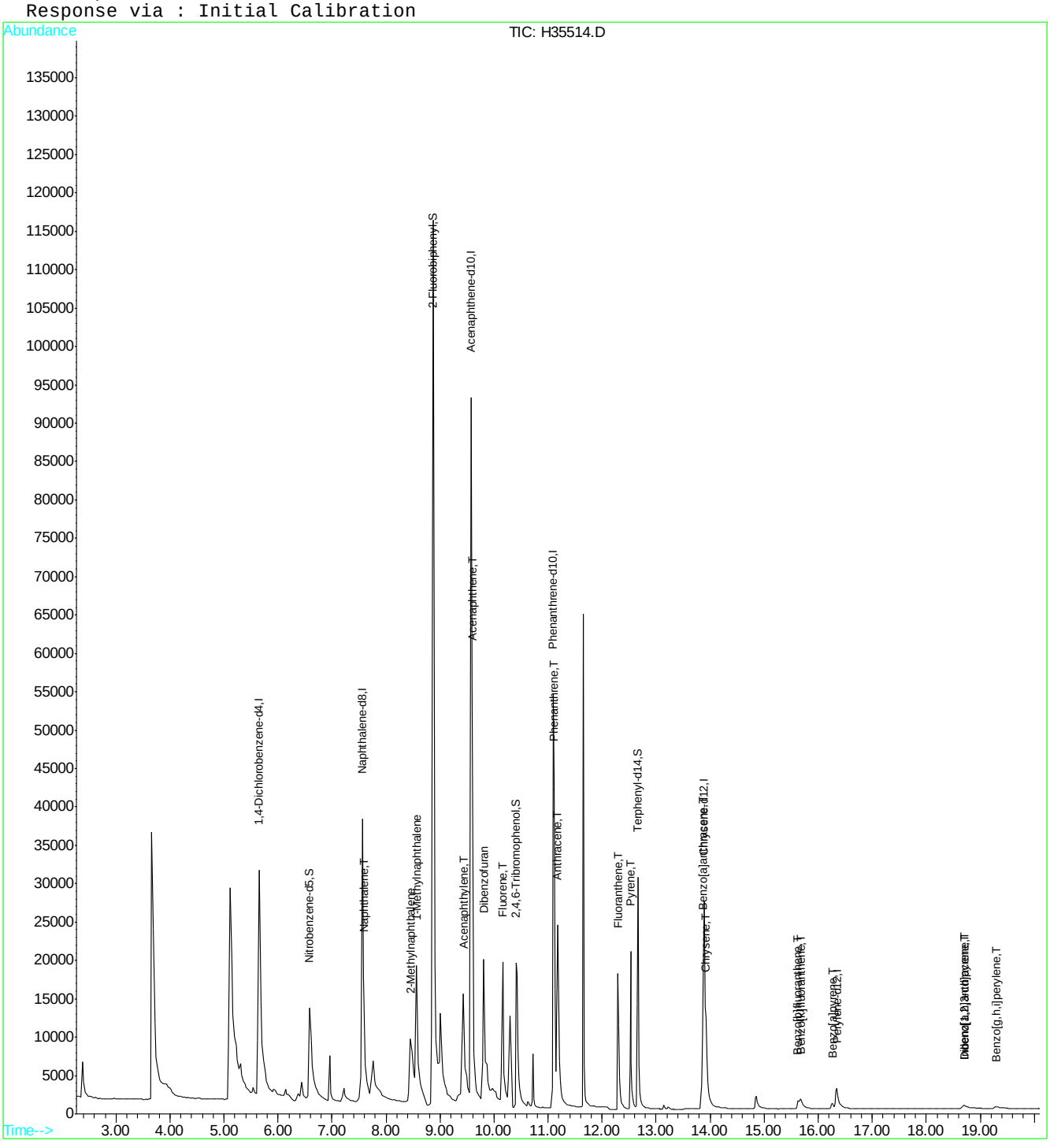
Target Compounds							Qvalue
6) Naphthalene	7.59	128	21719	0.70	ppb		99
7) 2-Methylnaphthalene	8.45	142	21988	0.83	ppb	#	95
8) 1-Methylnaphthalene	8.56	142	36642	0.96	ppb	#	91
11) Acenaphthylene	9.44	152	28383	0.58	ppb	#	89
12) Acenaphthene	9.60	153	35398	0.94	ppb		78
13) Dibenzofuran	9.81	168	34477	1.09	ppb		98
14) Fluorene	10.16	166	17993	0.76	ppb	#	50
18) Phenanthrene	11.11	178	36723	0.82	ppb		90
19) Anthracene	11.17	178	41209	0.87	ppb	#	87
20) Fluoranthene	12.30	202	38438	0.85	ppb	#	90
22) Pyrene	12.53	202	31371	1.53	ppb		96
24) Benzo[a]anthracene	13.87	228	13025	0.98	ppb		95
25) Chrysene	13.92	228	13065	0.99	ppb		96
27) Benzo[b]fluoranthene	15.62	252	2127m	0.61	ppb		
28) Benzo[k]fluoranthene	15.67	252	4846m	1.01	ppb		
29) Benzo[a]pyrene	16.26	252	3104	1.08	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.70	276	1689	1.73	ppb		97
31) Dibenz[a,h]anthracene	18.70	278	1082	1.78	ppb		97
32) Benzo[g,h,i]perylene	19.29	276	1606	2.27	ppb		97

(#) = qualifier out of range (m) = manual integration
H35514.D H10229SP.M Thu Oct 22 13:28:42 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: H10219SP.RES

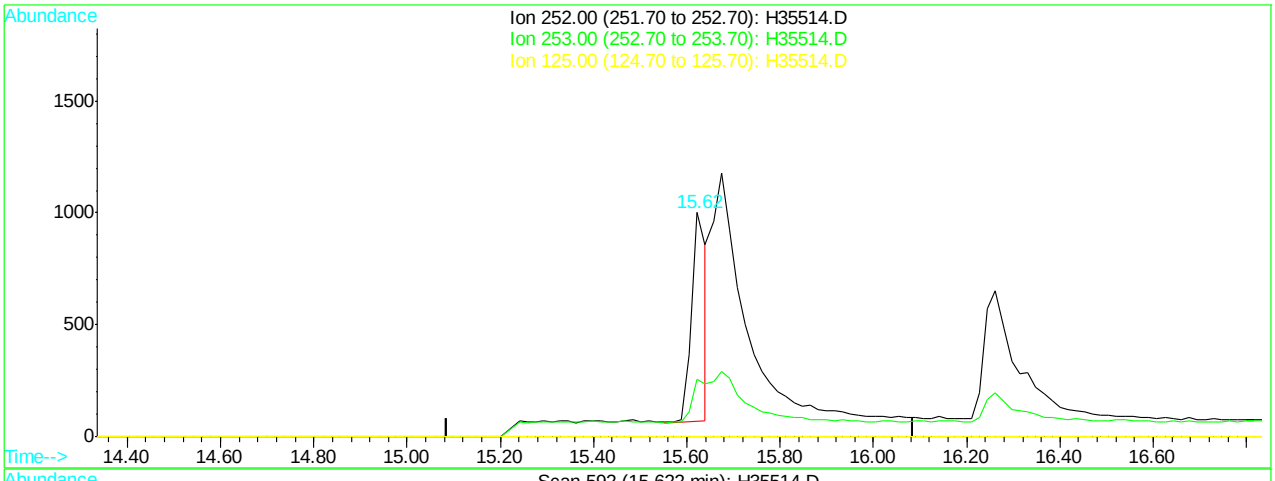
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

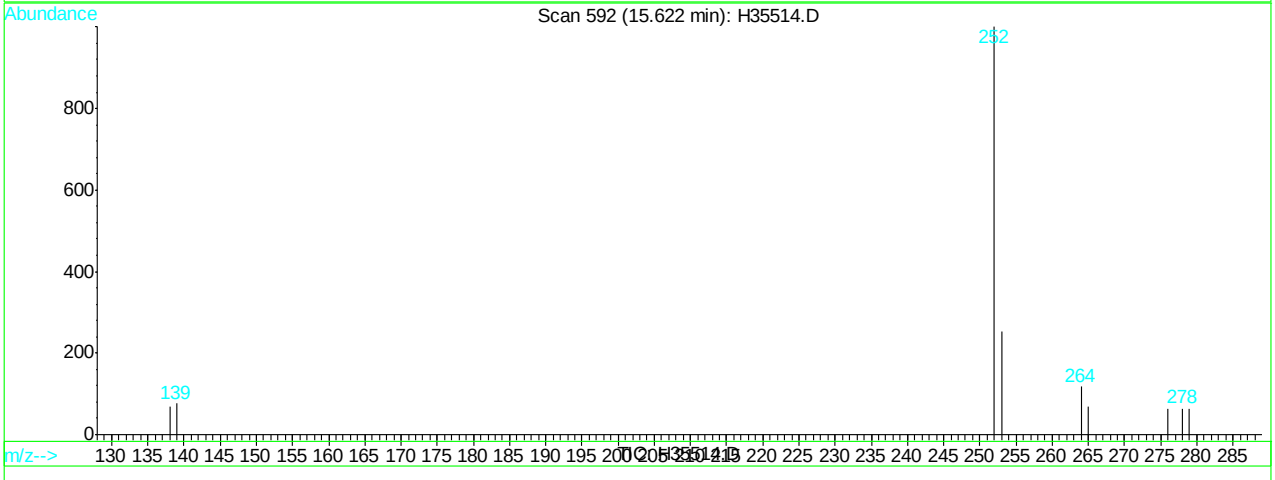


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.62min 0.61ppb m

response 2127

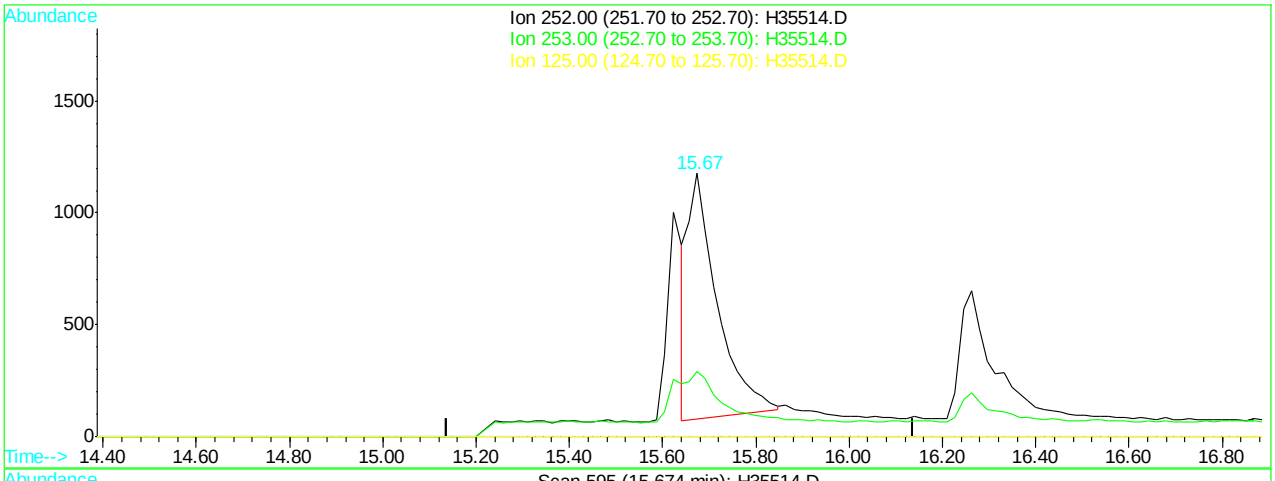
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	25.37
125.00	0.00	0.00
0.00	0.00	0.00

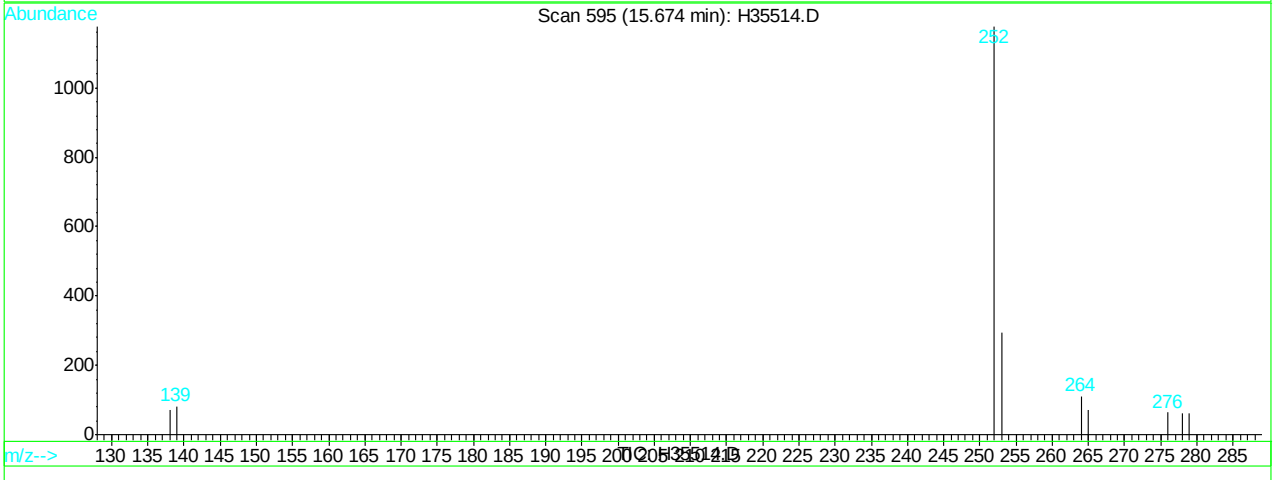
H35514.D H10229SP.M Thu Oct 22 13:29:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 1.01ppb m

response 4846

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	24.89
125.00	0.00	0.00
0.00	0.00	0.00

H35514.D H10229SP.M Thu Oct 22 13:29:05 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	76671	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	74580	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	51002	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	75853	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	25379	4.00	ppb	0.02
26) Perylene-d12	16.37	264	5328	4.00	ppb	0.05

System Monitoring Compounds

5) Nitrobenzene-d5	6.78	82	1453m	0.24	ppb	0.23
Spiked Amount 5.000	Range 17 - 131		Recovery	=	4.80%#	
10) 2-Fluorobiphenyl	8.90	172	16002	0.52	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	10.40%#	
16) 2,4,6-Tribromophenol	10.45	330	1298m	0.33	ppb	0.05
Spiked Amount 10.000	Range 10 - 123		Recovery	=	3.30%#	
23) Terphenyl-d14	12.68	244	2800	0.88	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	17.60%	

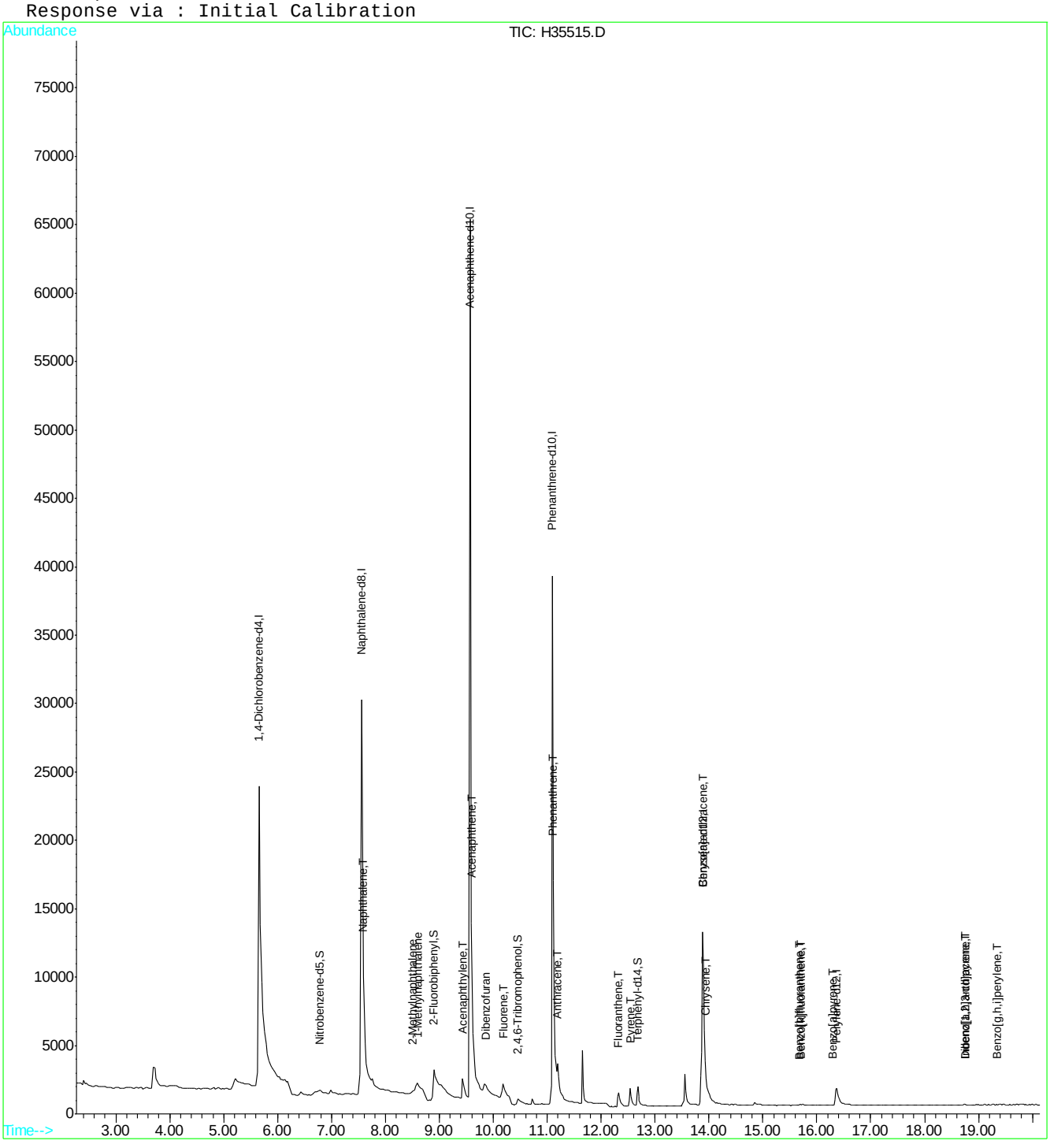
Target Compounds							Qvalue
6) Naphthalene	7.59	128	2448	0.08	ppb		96
7) 2-Methylnaphthalene	8.51	142	580m	0.02	ppb		
8) 1-Methylnaphthalene	8.59	142	2546m	0.07	ppb		
11) Acenaphthylene	9.43	152	3242	0.08	ppb		99
12) Acenaphthene	9.60	153	2712	0.09	ppb	#	67
13) Dibenzofuran	9.86	168	3150	0.12	ppb		96
14) Fluorene	10.19	166	1368	0.07	ppb	#	59
18) Phenanthrene	11.11	178	3940m	0.10	ppb		
19) Anthracene	11.19	178	4332	0.10	ppb		94
20) Fluoranthene	12.33	202	3295	0.08	ppb		97
22) Pyrene	12.54	202	3422	0.24	ppb		96
24) Benzo[a]anthracene	13.88	228	771	0.08	ppb	#	90
25) Chrysene	13.94	228	1233m	0.13	ppb		
27) Benzo[b]fluoranthene	15.67	252	114m	0.05	ppb		
28) Benzo[k]fluoranthene	15.71	252	227m	0.08	ppb		
29) Benzo[a]pyrene	16.30	252	113	0.07	ppb	#	69
30) Indeno[1,2,3-cd]pyrene	18.75	276	58	0.10	ppb	#	59
31) Dibenz[a,h]anthracene	18.75	278	49	0.13	ppb	#	49
32) Benzo[g,h,i]perylene	19.34	276	62	0.15	ppb		96

(#) = qualifier out of range (m) = manual integration
H35515.D H10229SP.M Thu Oct 22 13:29:12 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: H10219SP.RES

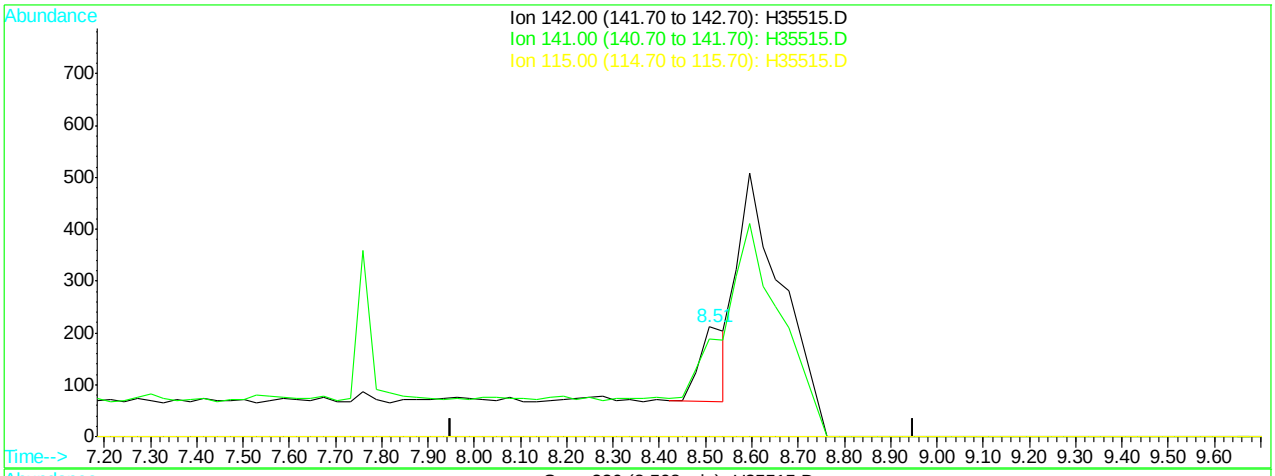
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

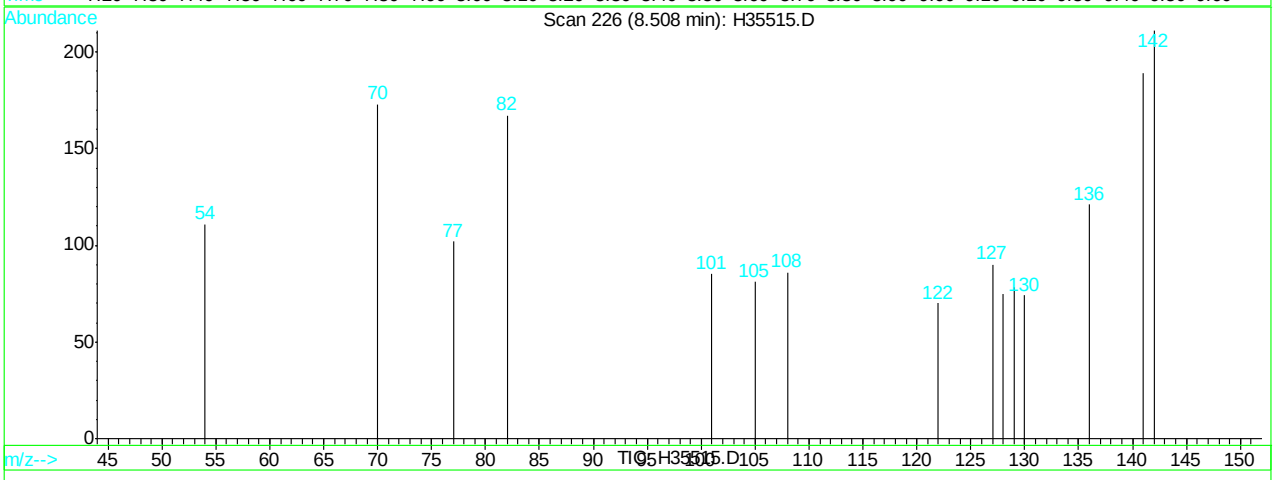


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.51min 0.02ppb m

response 580

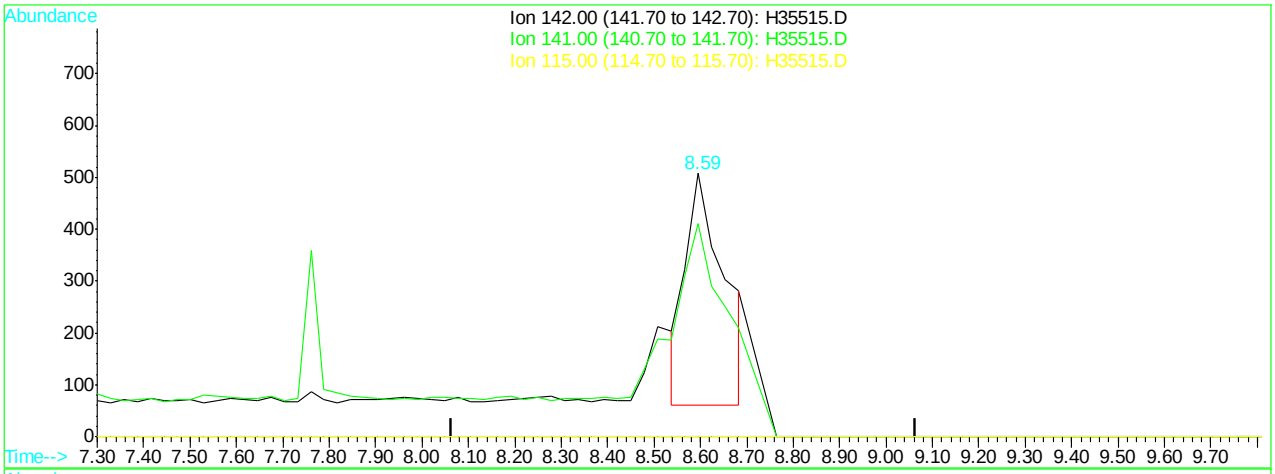
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	708.62#
115.00	0.00	0.00
0.00	0.00	0.00

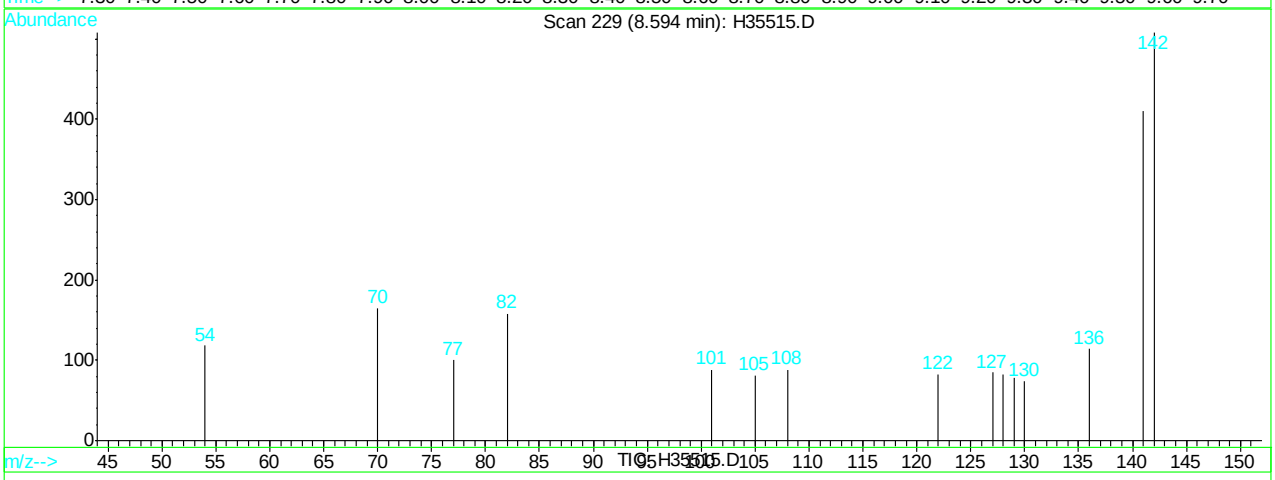
H35515.D H10229SP.M Thu Oct 22 13:29:35 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.59min 0.07ppb m

response 2546

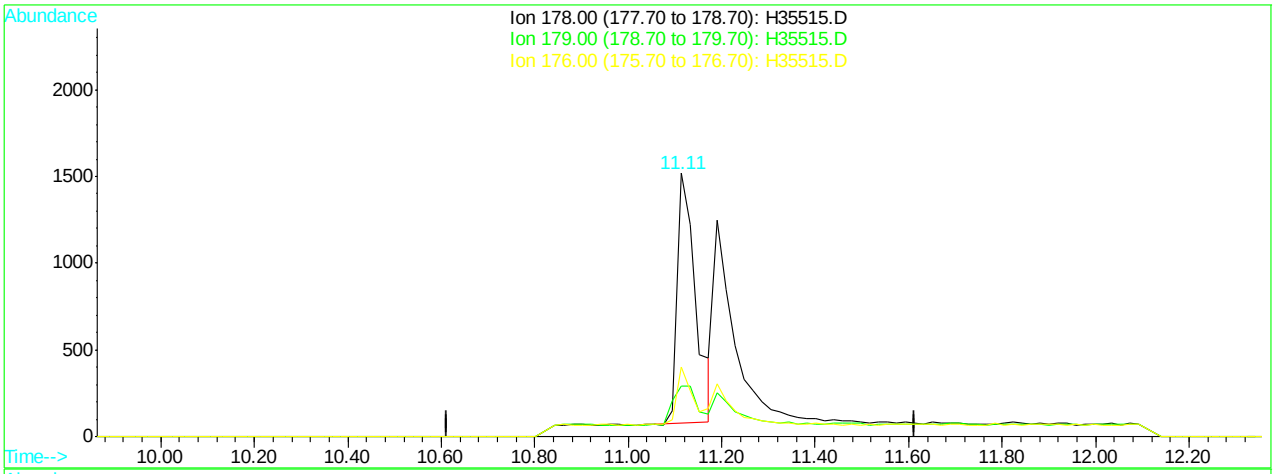
Ion	Exp%	Act%
142.00	100	100
141.00	81.20	161.43#
115.00	0.00	0.00
0.00	0.00	0.00

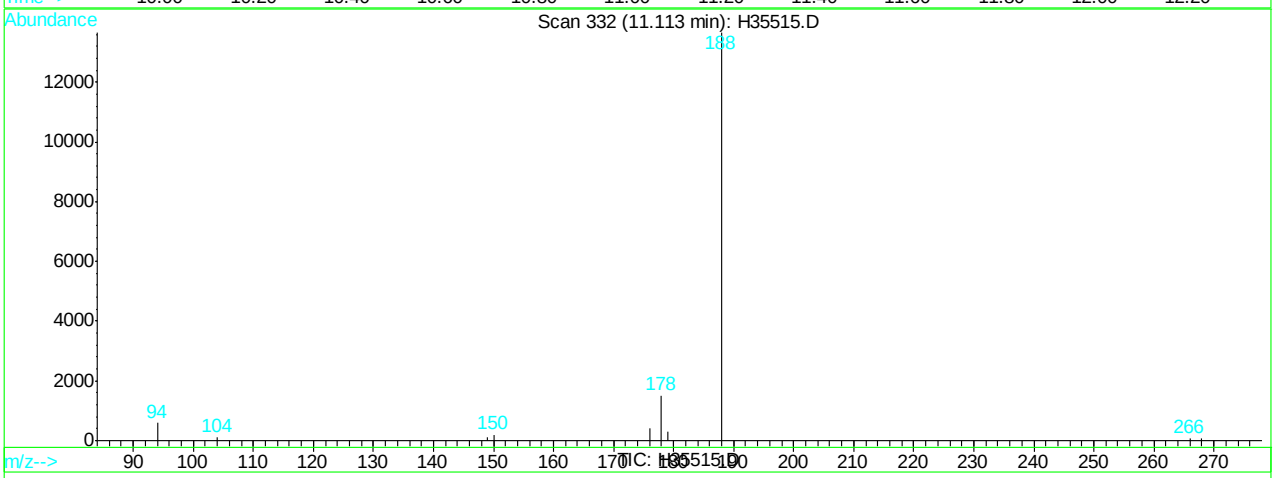
H35515.D H10229SP.M Thu Oct 22 13:29:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.10ppb m

response 3940

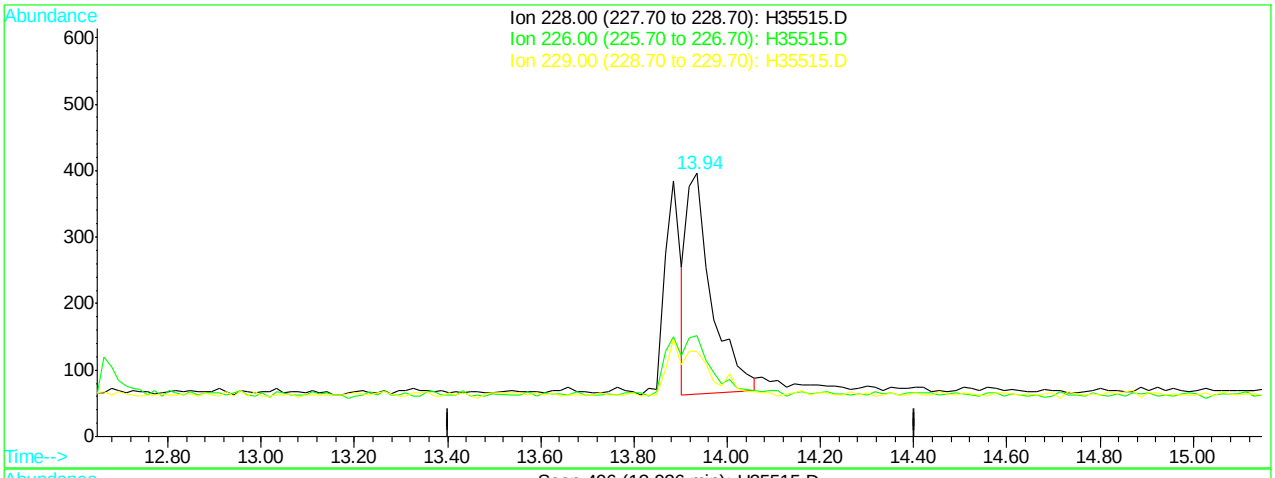
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	19.04
176.00	17.10	26.61#
0.00	0.00	0.00

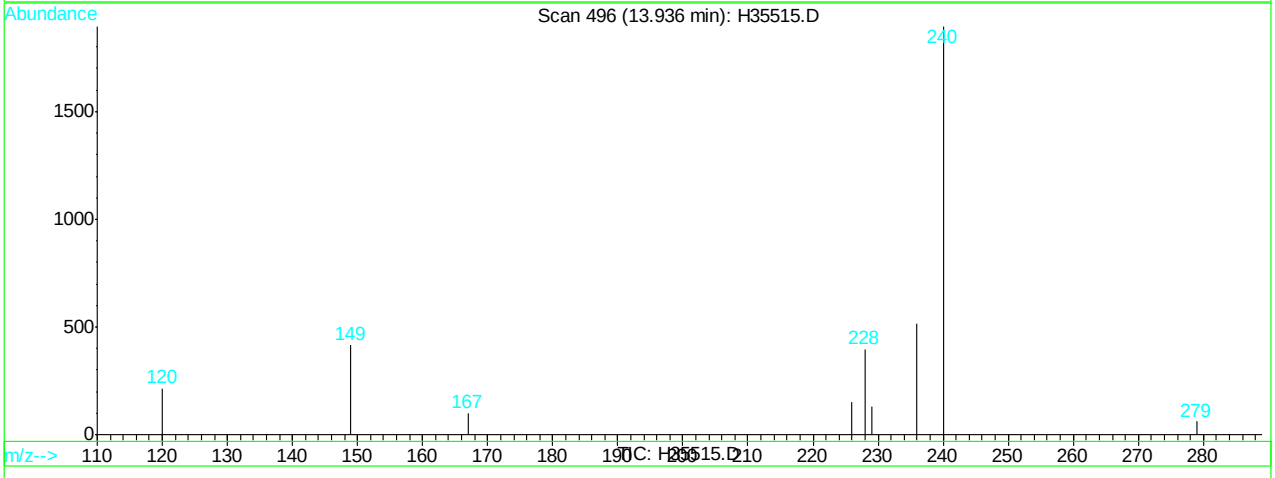
H35515.D H10229SP.M Thu Oct 22 13:29:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.13ppb m

response 1233

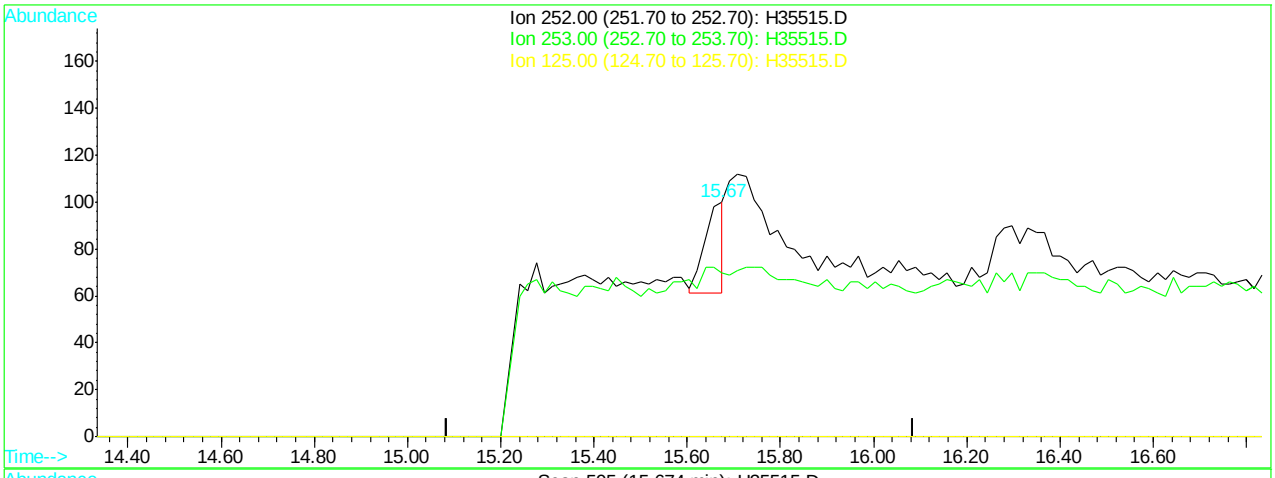
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	38.38
229.00	19.10	32.32#
0.00	0.00	0.00

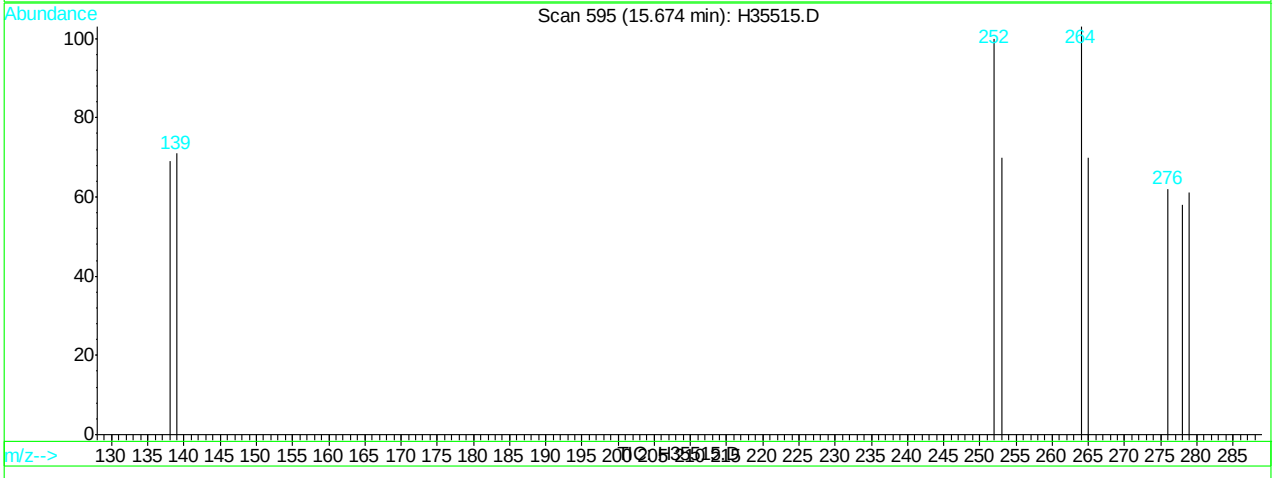
H35515.D H10229SP.M Thu Oct 22 13:29:49 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.67min 0.05ppb m

response 114

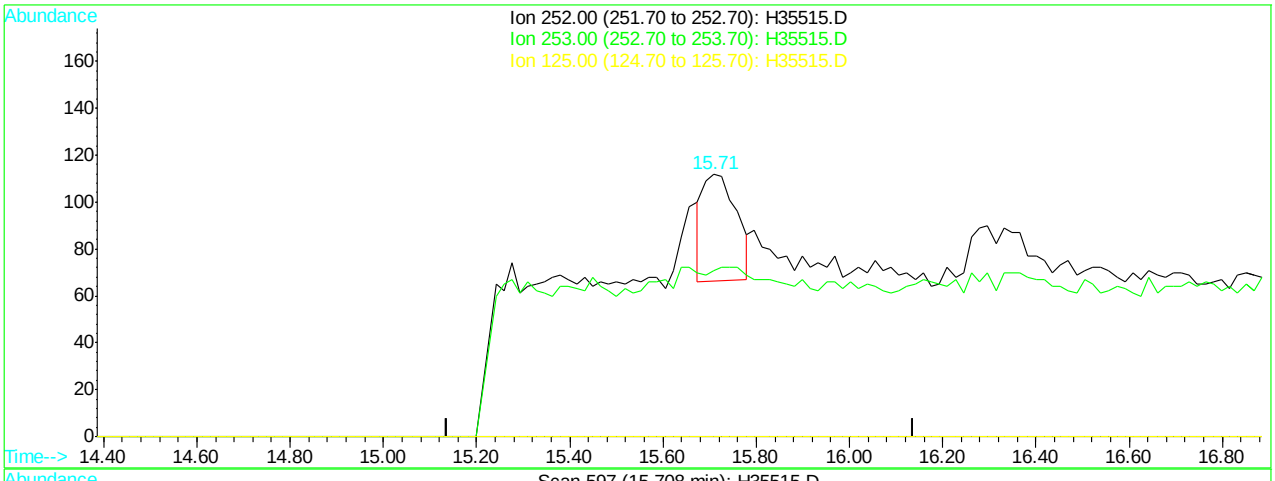
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	70.00#
125.00	0.00	0.00
0.00	0.00	0.00

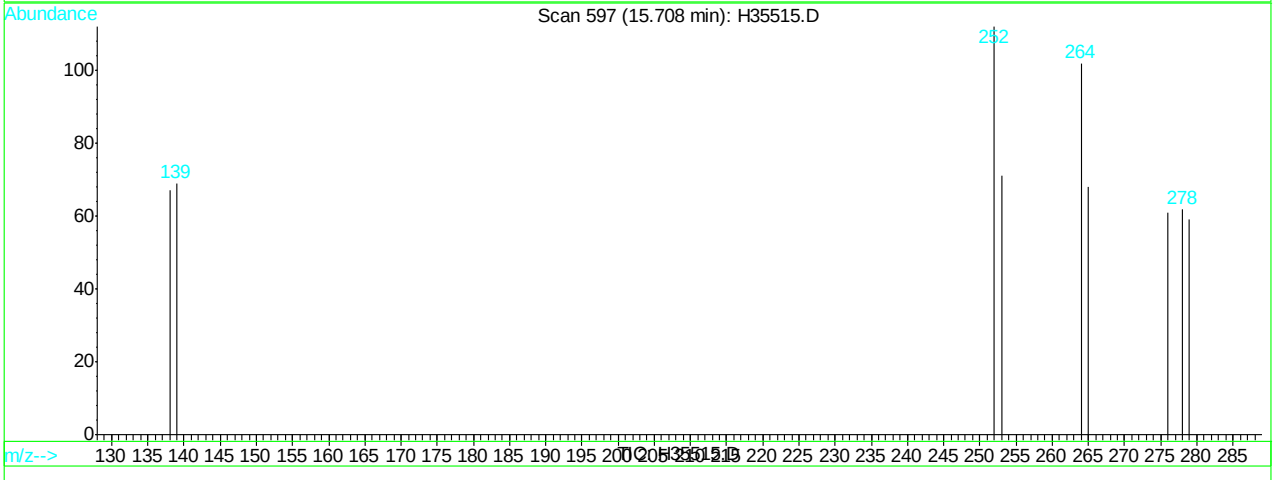
H35515.D H10229SP.M Thu Oct 22 13:29:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 0.08ppb m

response 227

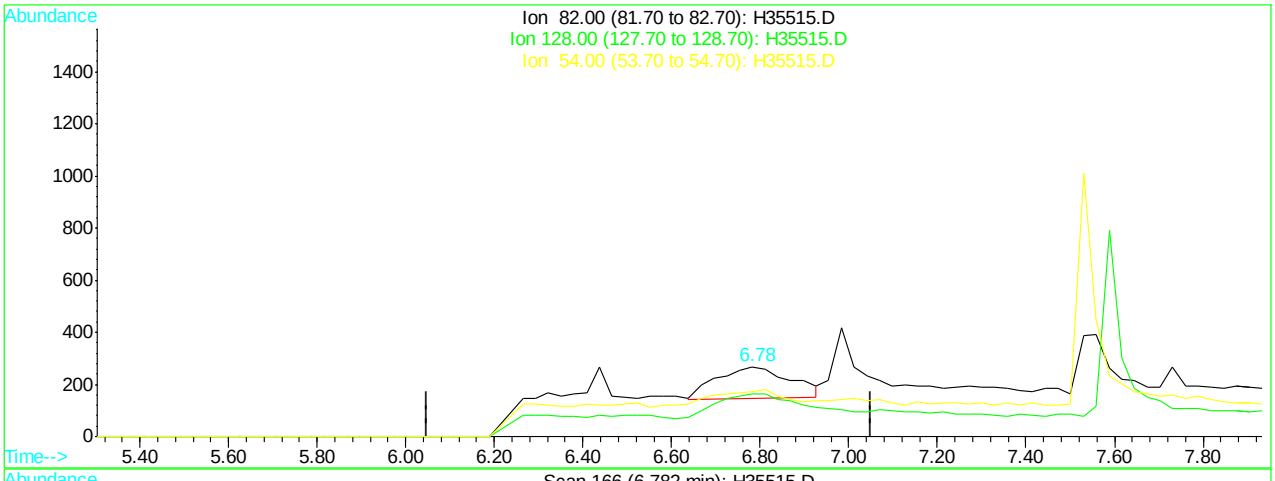
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	63.39#
125.00	0.00	0.00
0.00	0.00	0.00

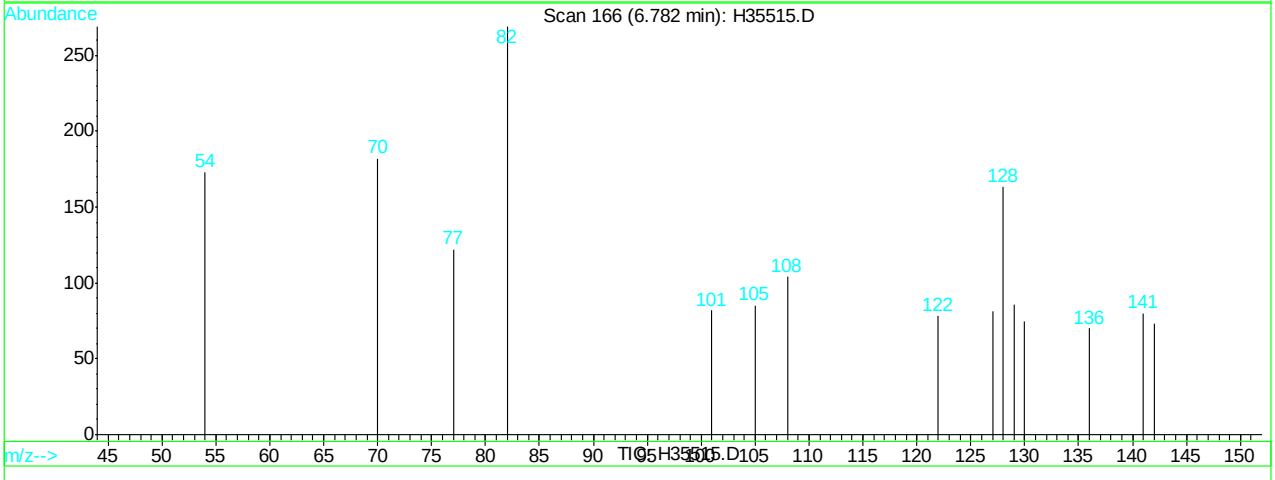
H35515.D H10229SP.M Thu Oct 22 13:29:56 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.78min 0.24ppb m

response 1453

Ion	Exp%	Act%
82.00	100	100
128.00	13.90	60.59#
54.00	49.20	64.31#
0.00	0.00	0.00

H35515.D H10229SP.M Thu Oct 22 13:30:42 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	75841	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	71073	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	52298	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	78407	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	34140	4.00	ppb	0.02
26) Perylene-d12	16.35	264	8494	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.70	82	1514m	0.26	ppb	0.15
Spiked Amount 5.000	Range 17 - 131		Recovery	=	5.20%#	
10) 2-Fluorobiphenyl	8.90	172	26852	0.85	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	17.00%	
16) 2,4,6-Tribromophenol	10.44	330	4573	1.13	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery	=	11.30%	
23) Terphenyl-d14	12.68	244	5789	1.35	ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery	=	27.00%	

Target Compounds

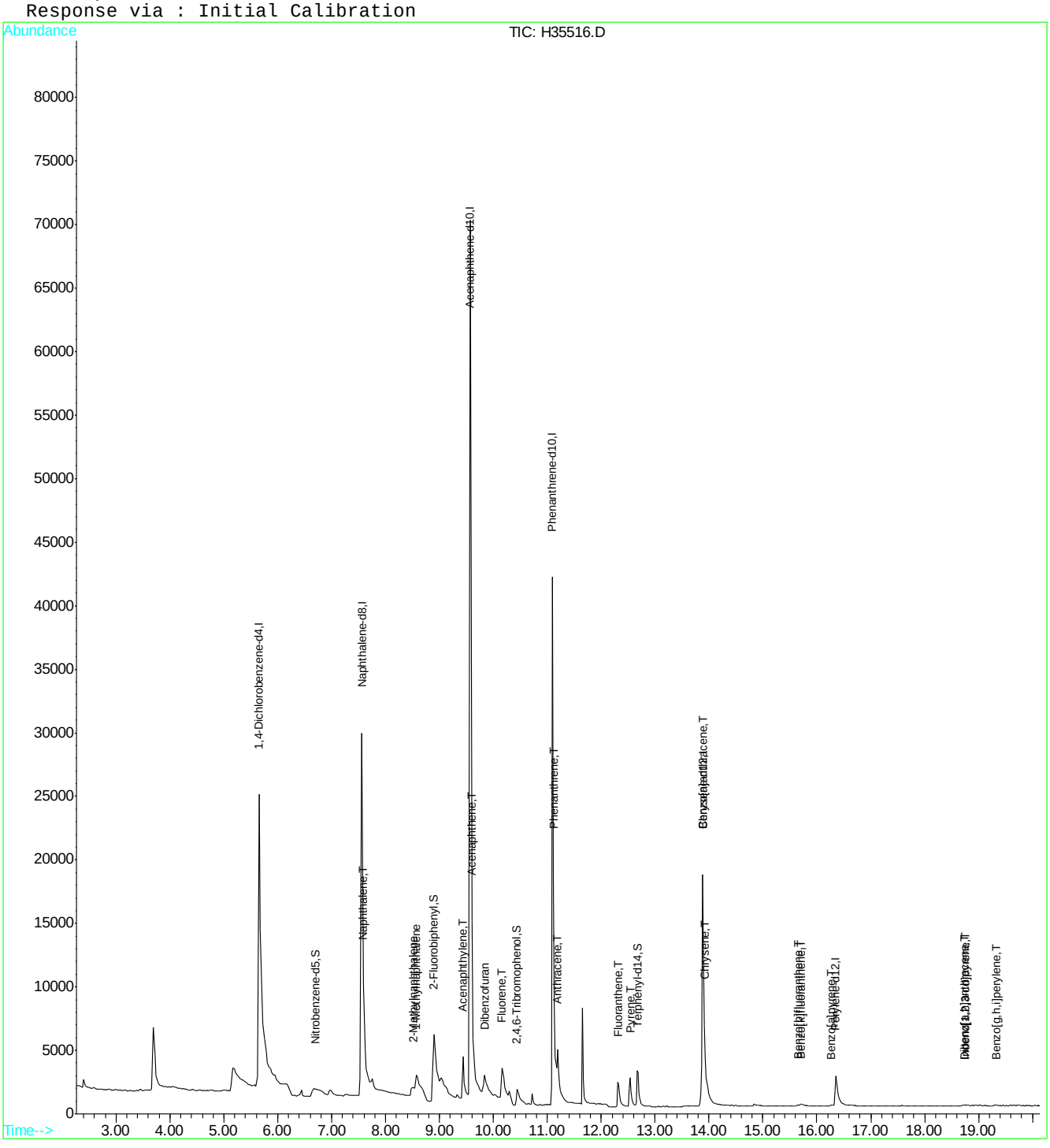
							Qvalue
6) Naphthalene	7.59	128	4091	0.14	ppb		97
7) 2-Methylnaphthalene	8.51	142	1629m	0.07	ppb		
8) 1-Methylnaphthalene	8.57	142	3687m	0.10	ppb		
11) Acenaphthylene	9.44	152	6142	0.15	ppb		93
12) Acenaphthene	9.60	153	5085	0.16	ppb	#	71
13) Dibenzofuran	9.84	168	5578	0.21	ppb		97
14) Fluorene	10.16	166	3269	0.17	ppb		75
18) Phenanthrene	11.11	178	6332m	0.15	ppb		
19) Anthracene	11.19	178	7532	0.17	ppb		97
20) Fluoranthene	12.31	202	5471m	0.13	ppb		
22) Pyrene	12.54	202	6060	0.31	ppb		95
24) Benzo[a]anthracene	13.88	228	1640	0.13	ppb		90
25) Chrysene	13.92	228	2257m	0.18	ppb		
27) Benzo[b]fluoranthene	15.66	252	266m	0.08	ppb		
28) Benzo[k]fluoranthene	15.71	252	639m	0.14	ppb		
29) Benzo[a]pyrene	16.26	252	256	0.09	ppb		88
30) Indeno[1,2,3-cd]pyrene	18.75	276	228	0.24	ppb	#	77
31) Dibenz[a,h]anthracene	18.74	278	78	0.13	ppb	#	69
32) Benzo[g,h,i]perylene	19.32	276	181	0.27	ppb	#	81

(#) = qualifier out of range (m) = manual integration
H35516.D H10229SP.M Thu Oct 22 13:30:03 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: H10219SP.RES

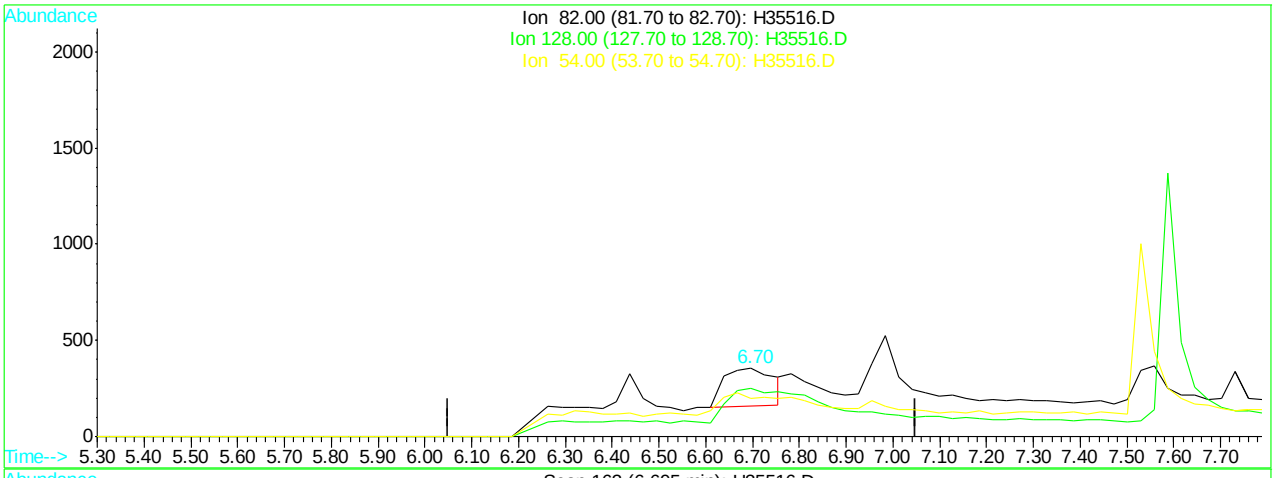
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

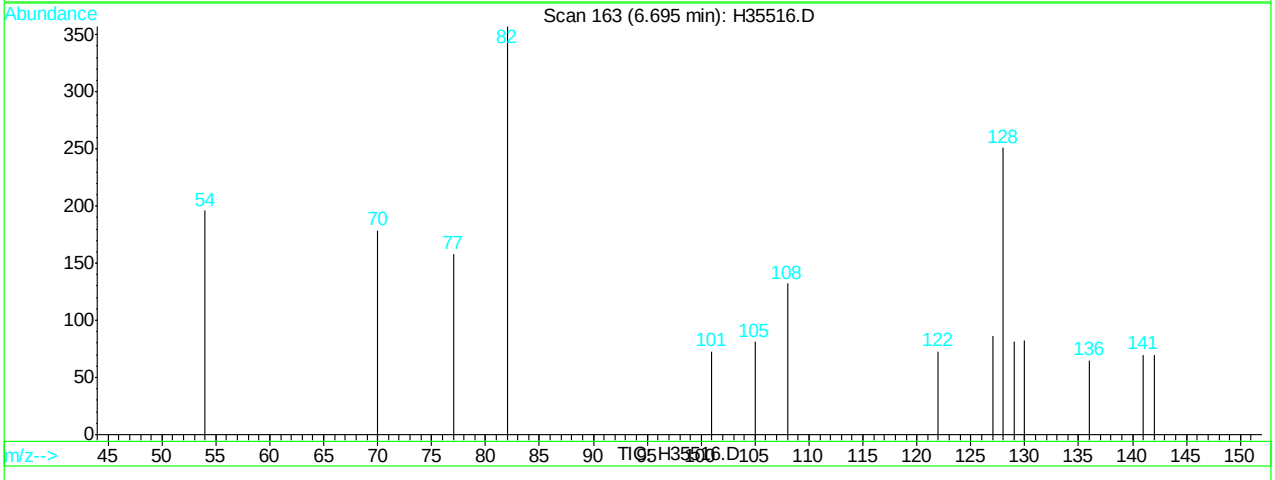


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.70min 0.26ppb m

response 1514

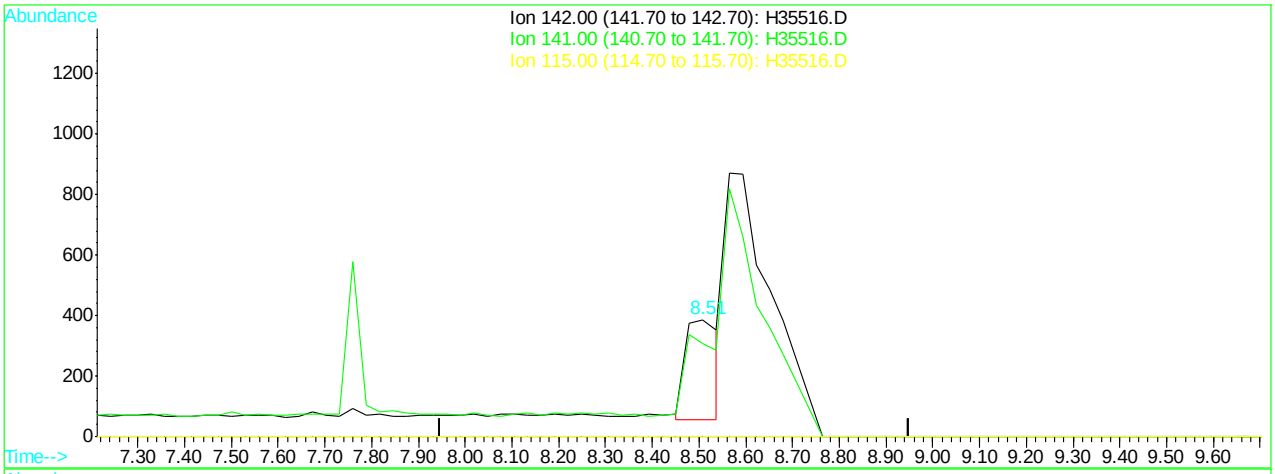
Ion	Exp%	Act%
82.00	100	100
128.00	13.90	70.31#
54.00	49.20	54.90
0.00	0.00	0.00

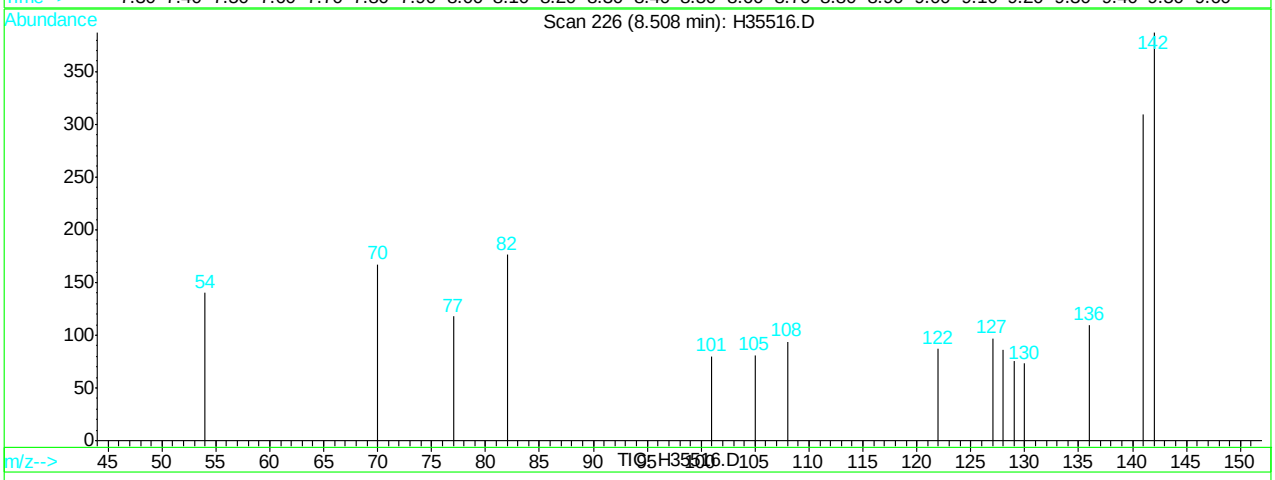
H35516.D H10229SP.M Thu Oct 22 13:30:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.51min 0.07ppb m

response 1629

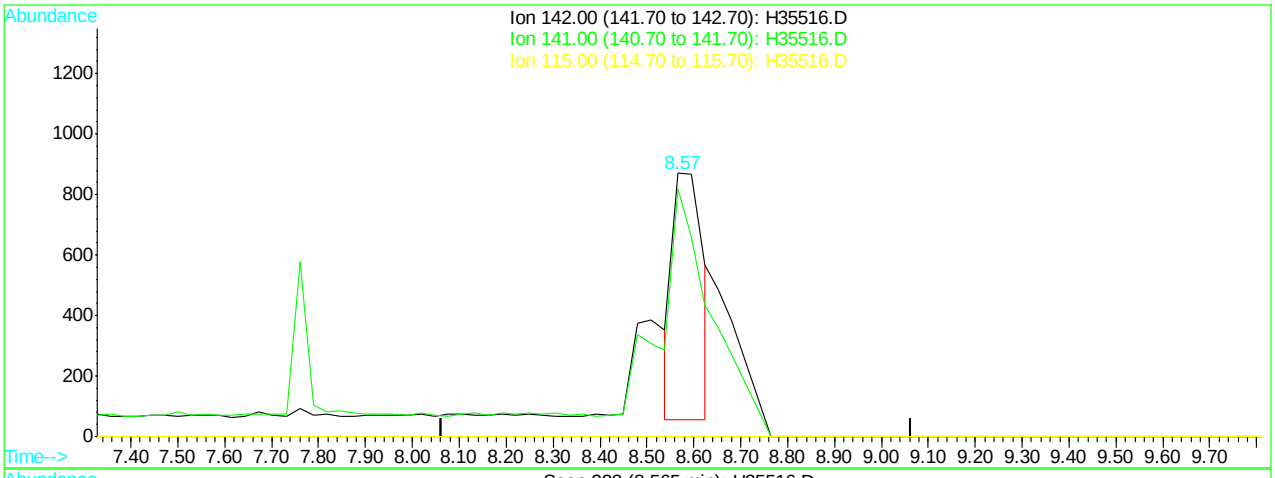
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	442.79#
115.00	0.00	0.00
0.00	0.00	0.00

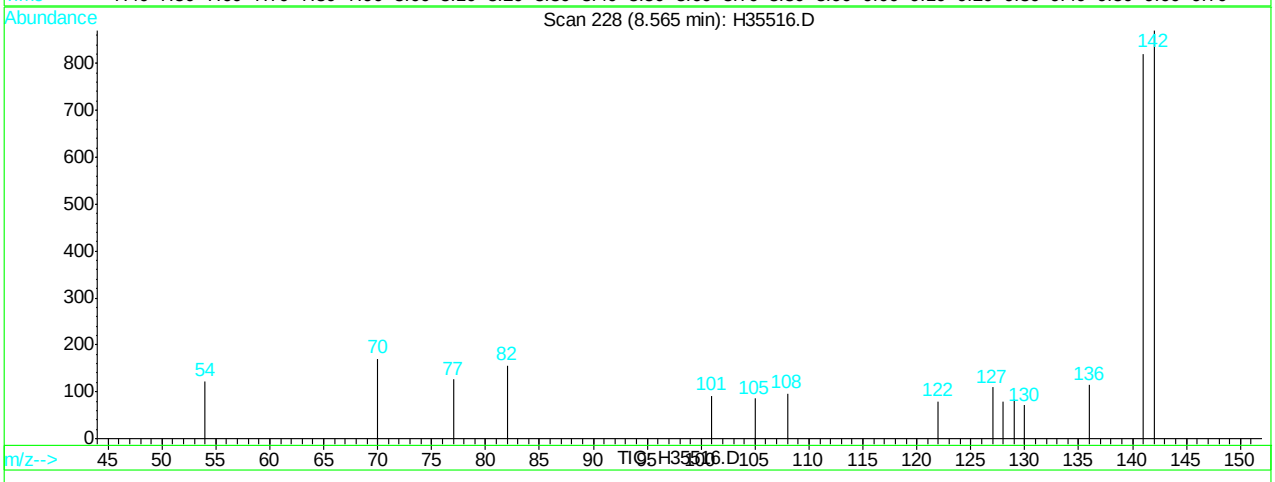
H35516.D H10229SP.M Thu Oct 22 13:31:00 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.57min 0.10ppb m

response 3687

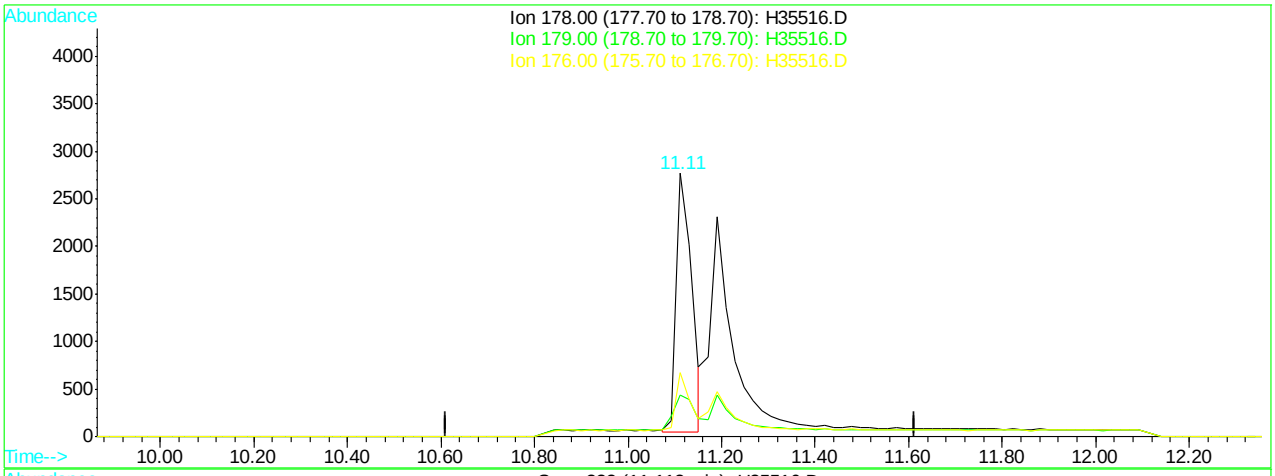
Ion	Exp%	Act%
142.00	100	100
141.00	81.20	195.63#
115.00	0.00	0.00
0.00	0.00	0.00

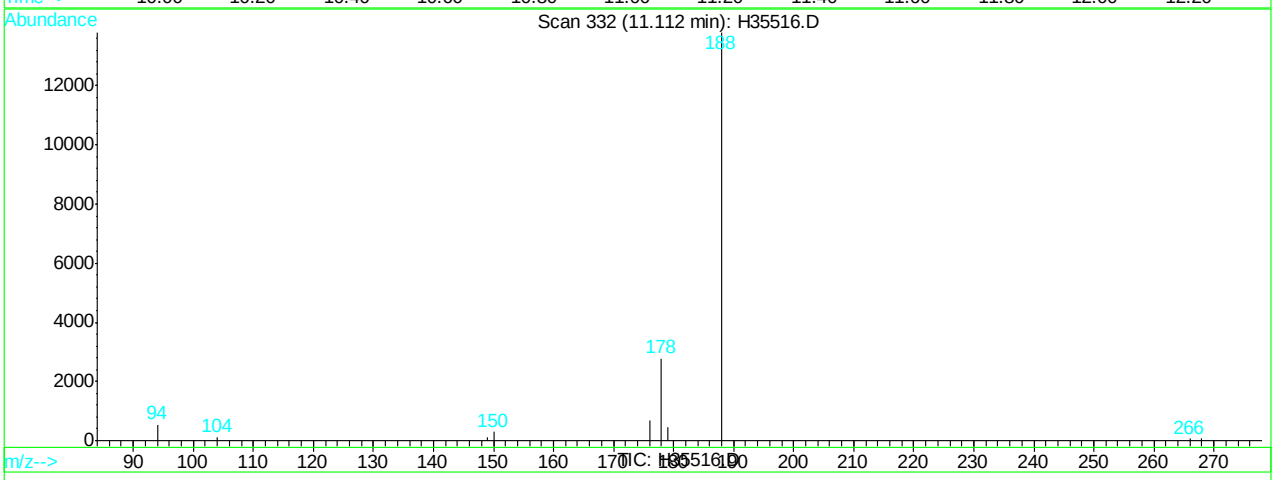
H35516.D H10229SP.M Thu Oct 22 13:31:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.15ppb m

response 6332

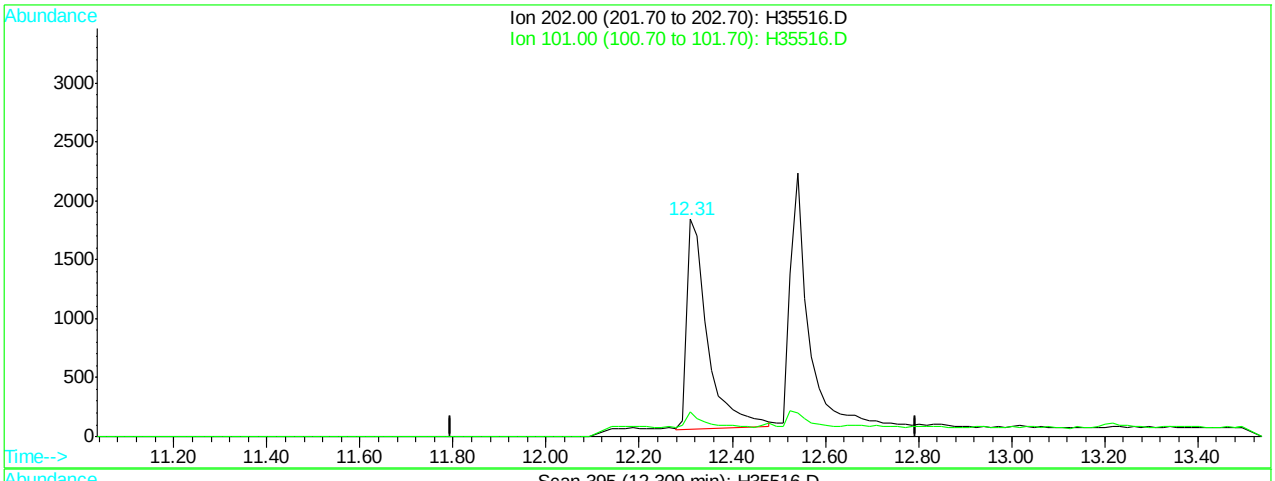
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	15.81
176.00	17.10	24.40#
0.00	0.00	0.00

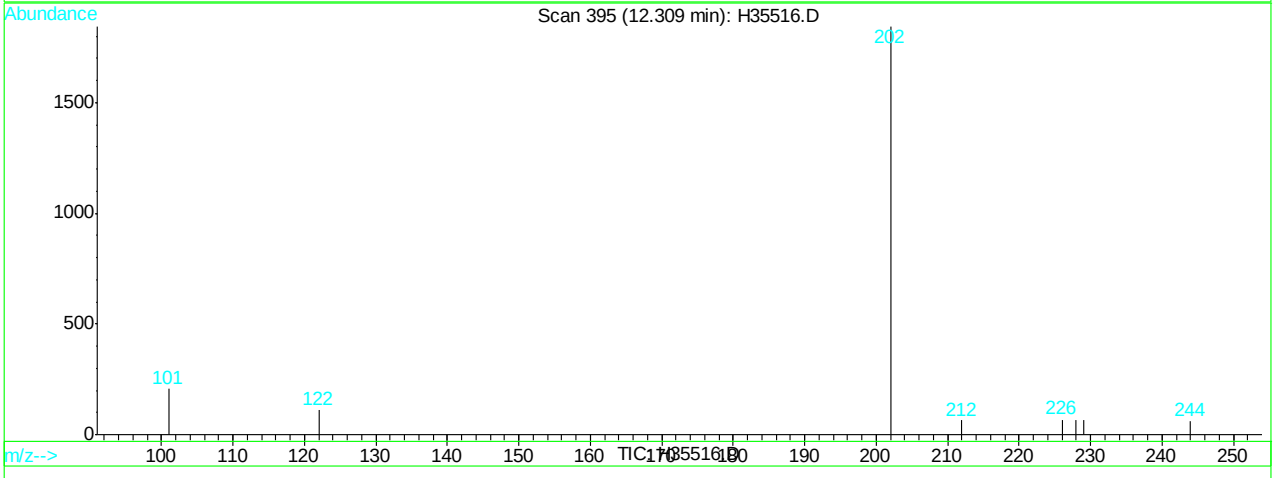
H35516.D H10229SP.M Thu Oct 22 13:31:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(20) Fluoranthene (T)

12.31min 0.13ppb m

response 5471

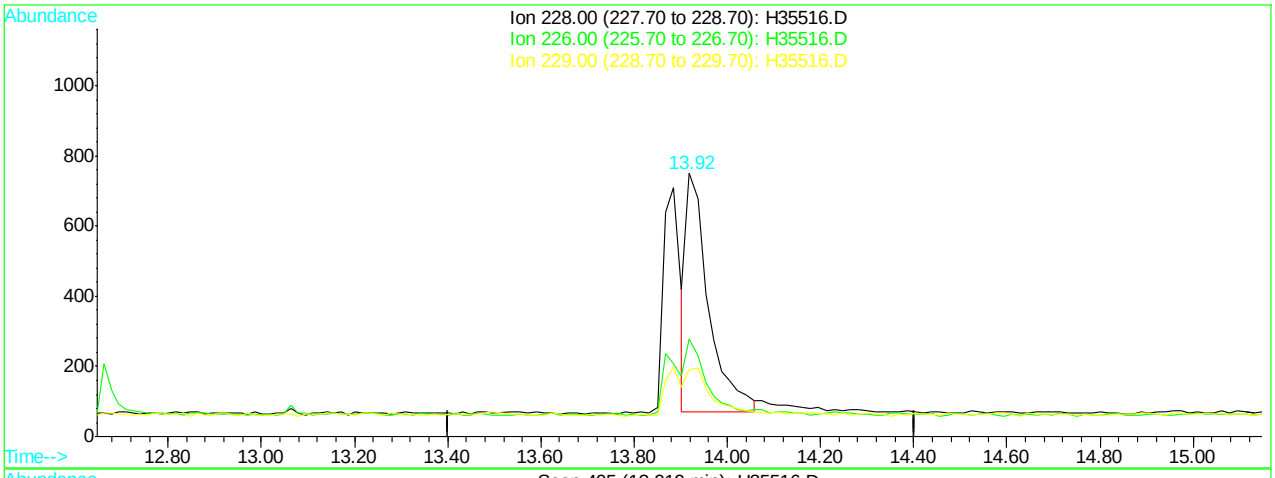
Ion	Exp%	Act%
202.00	100	100
101.00	4.10	11.18#
0.00	0.00	0.00
0.00	0.00	0.00

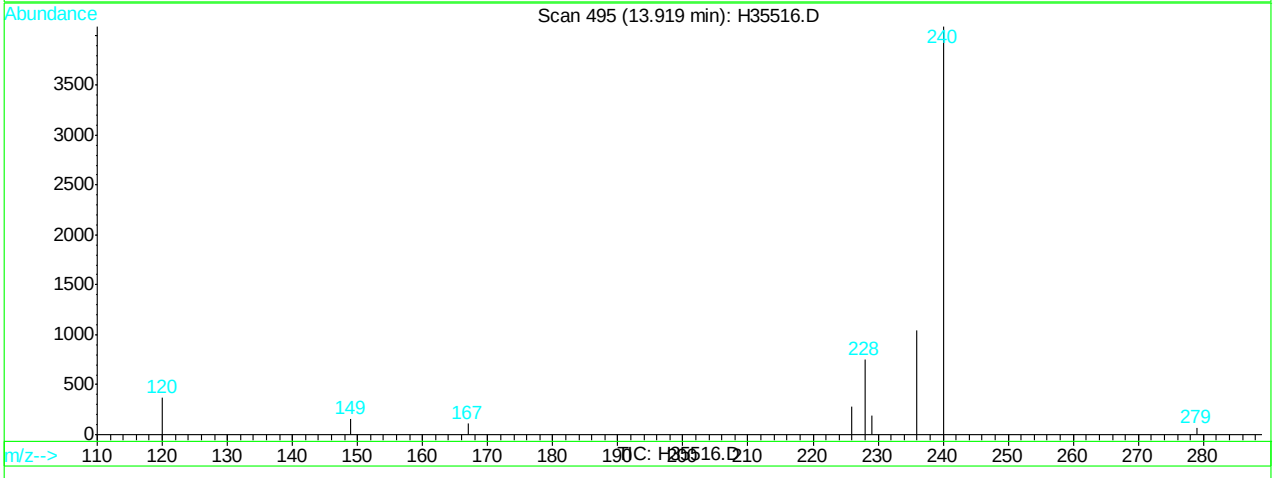
H35516.D H10229SP.M Thu Oct 22 13:31:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.18ppb m

response 2257

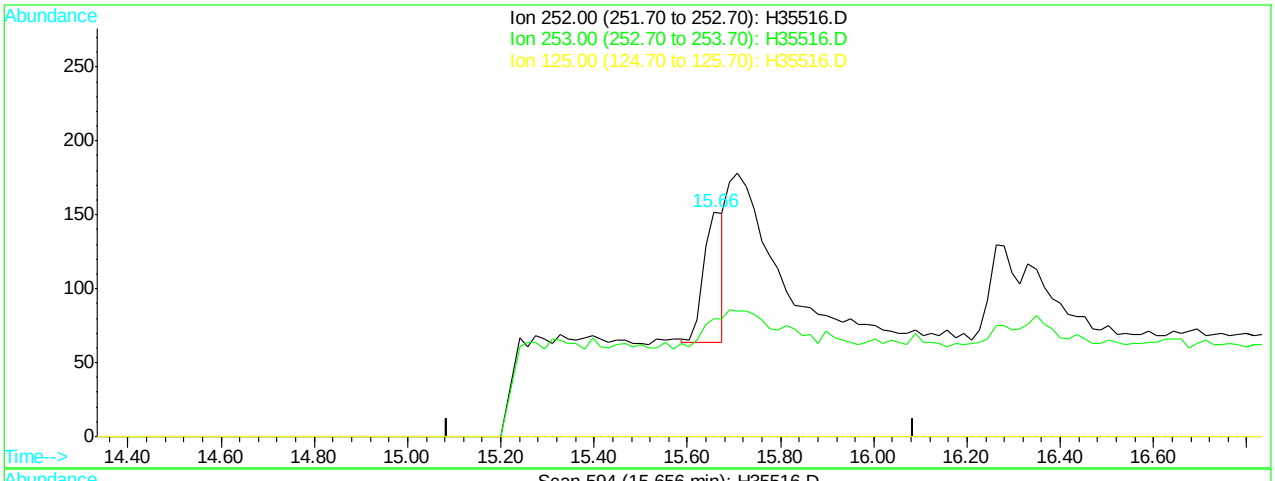
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	36.88
229.00	19.10	25.70#
0.00	0.00	0.00

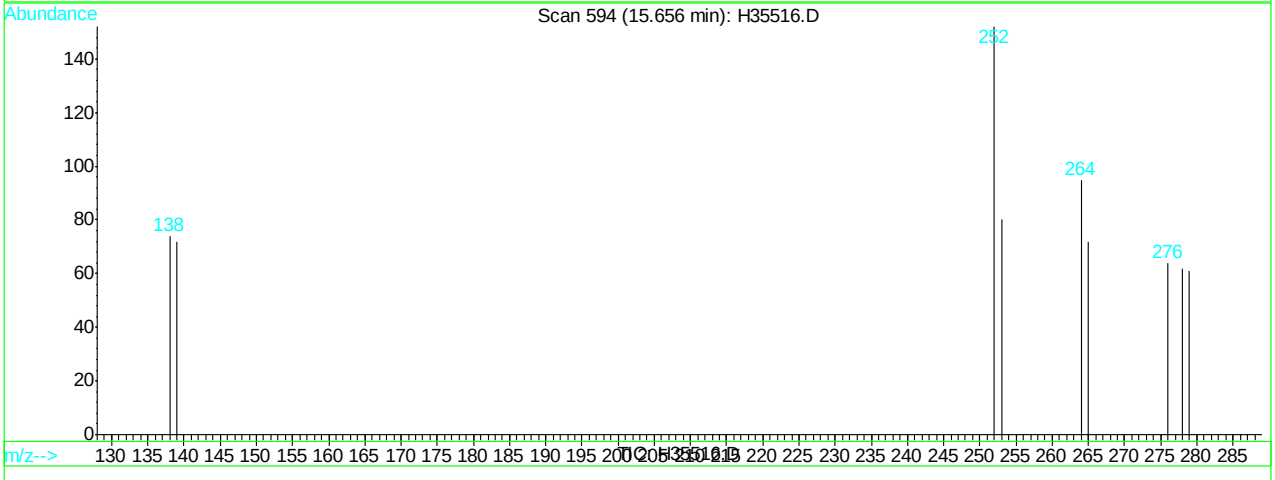
H35516.D H10229SP.M Thu Oct 22 13:31:18 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.08ppb m

response 266

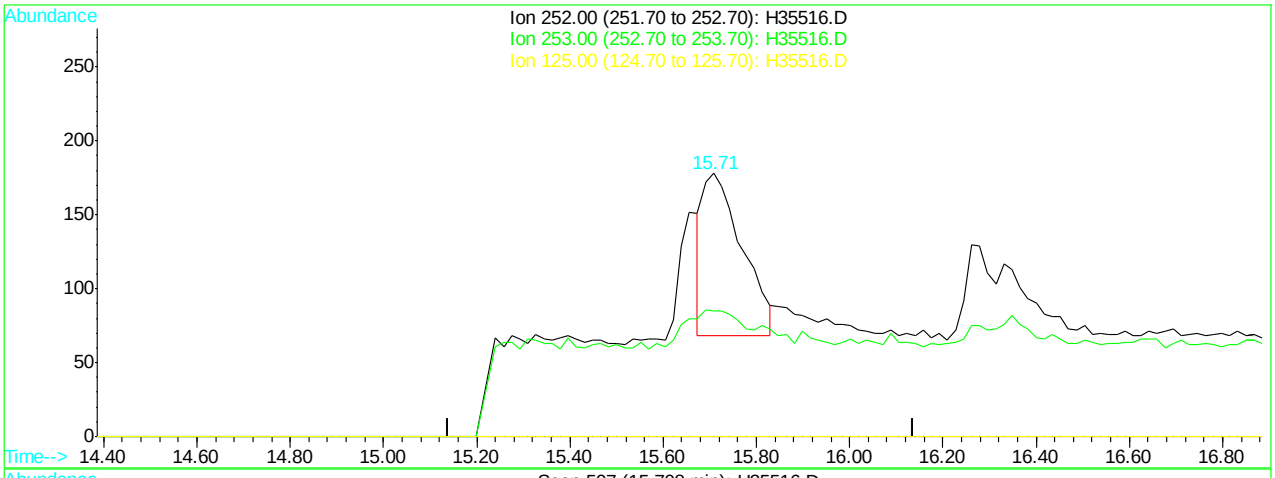
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	52.63#
125.00	0.00	0.00
0.00	0.00	0.00

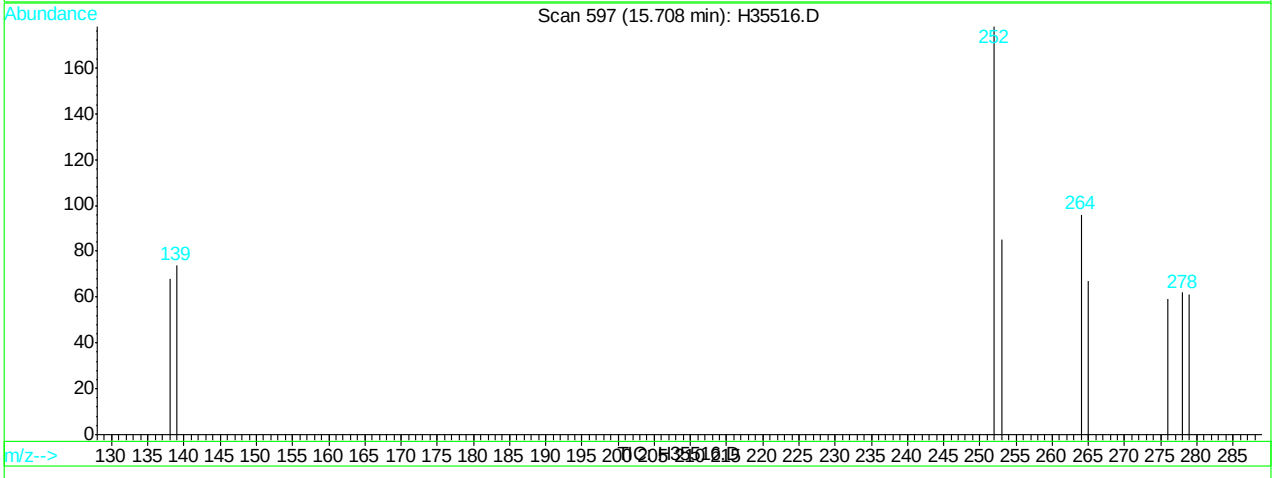
H35516.D H10229SP.M Thu Oct 22 13:31:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 0.14ppb m

response 639

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	47.75#
125.00	0.00	0.00
0.00	0.00	0.00

H35516.D H10229SP.M Thu Oct 22 13:31:24 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:58:34 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	81505	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	77465	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	55979	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	87324	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	48767	4.00	ppb	0.00
26) Perylene-d12	16.35	264	9936	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	108252	26.65	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 533.00%#			
10) 2-Fluorobiphenyl	8.87	172	1218319	27.16	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 543.20%#			
16) 2,4,6-Tribromophenol	10.40	330	173687	50.66	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 506.60%#			
23) Terphenyl-d14	12.66	244	253428	27.37	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 547.40%#			

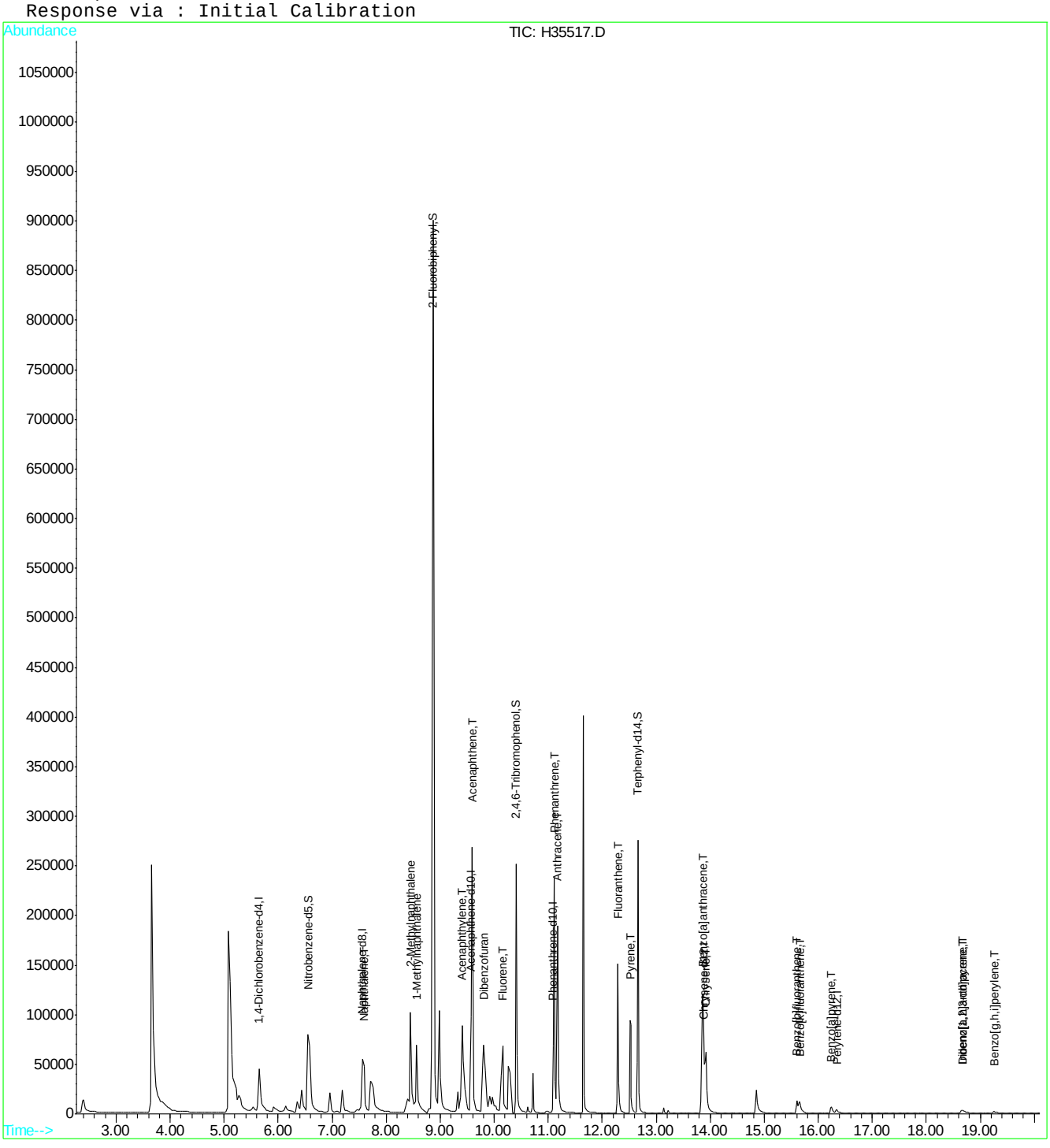
Target Compounds							Qvalue
6) Naphthalene	7.59	128	75148	4.76	ppb		96
7) 2-Methylnaphthalene	8.45	142	135625m	5.03	ppb		
8) 1-Methylnaphthalene	8.57	142	113677	4.76	ppb	#	94
11) Acenaphthylene	9.41	152	147243	4.68	ppb		95
12) Acenaphthene	9.60	153	178251	5.57	ppb		85
13) Dibenzofuran	9.81	168	111394	5.16	ppb		92
14) Fluorene	10.16	166	67068	4.58	ppb		96
18) Phenanthrene	11.11	178	221619	5.28	ppb		99
19) Anthracene	11.17	178	208251	4.79	ppb		97
20) Fluoranthene	12.29	202	186829	5.02	ppb		98
22) Pyrene	12.53	202	182971	4.88	ppb	#	80
24) Benzo[a]anthracene	13.87	228	84512	5.34	ppb		99
25) Chrysene	13.92	228	96836m	4.95	ppb		
27) Benzo[b]fluoranthene	15.60	252	21755	4.85	ppb		98
28) Benzo[k]fluoranthene	15.66	252	36201m	5.13	ppb		
29) Benzo[a]pyrene	16.25	252	20844	5.07	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.67	276	8450	5.01	ppb		91
31) Dibenz[a,h]anthracene	18.67	278	5815	5.11	ppb		91
32) Benzo[g,h,i]perylene	19.26	276	6988	5.09	ppb		98

(#) = qualifier out of range (m) = manual integration
H35517.D H10229SP.M Thu Oct 22 13:31:35 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: H10219SP.RES

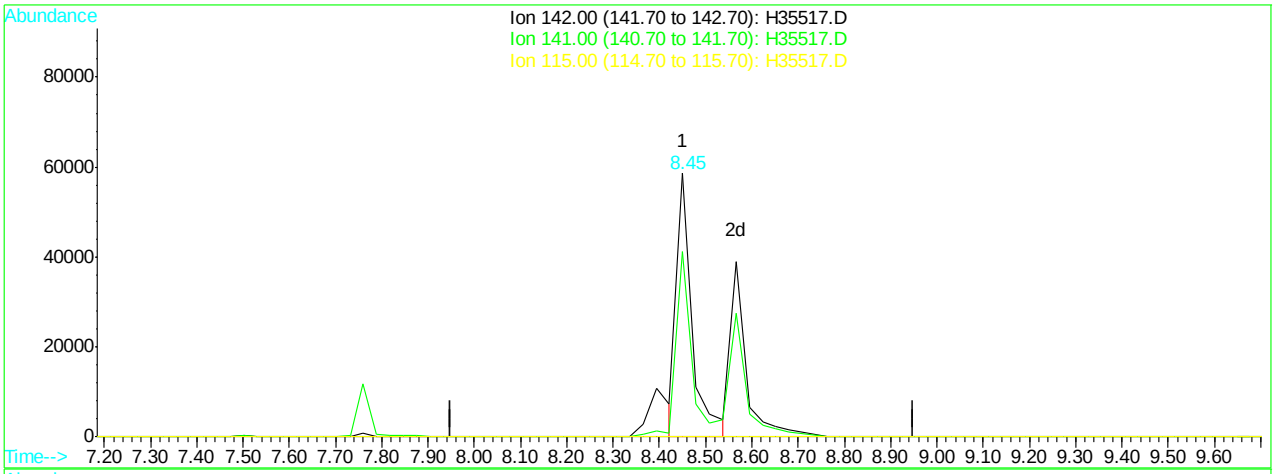
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

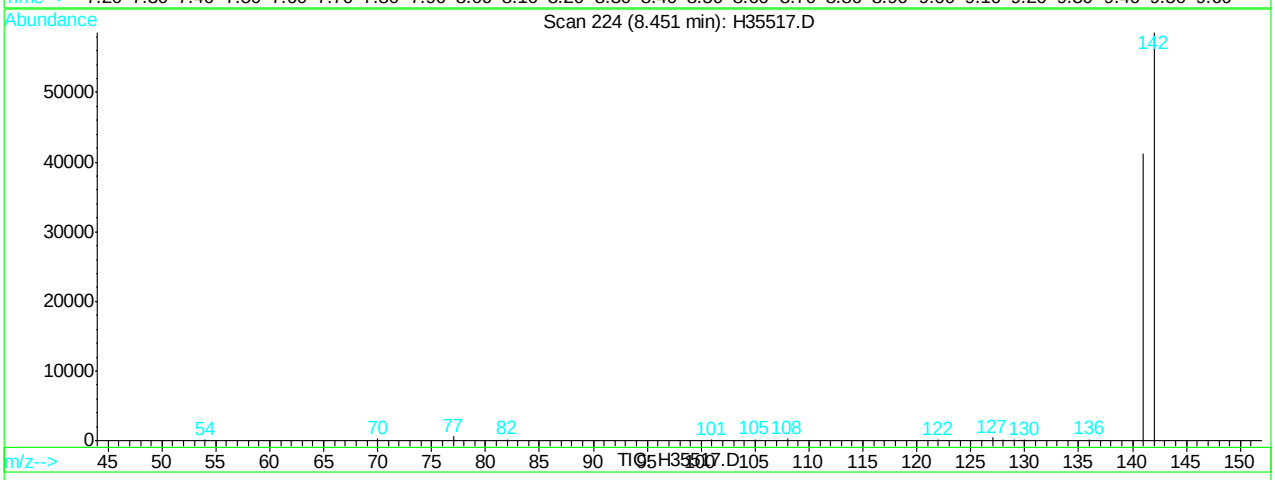


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 5.03ppb m

response 135625

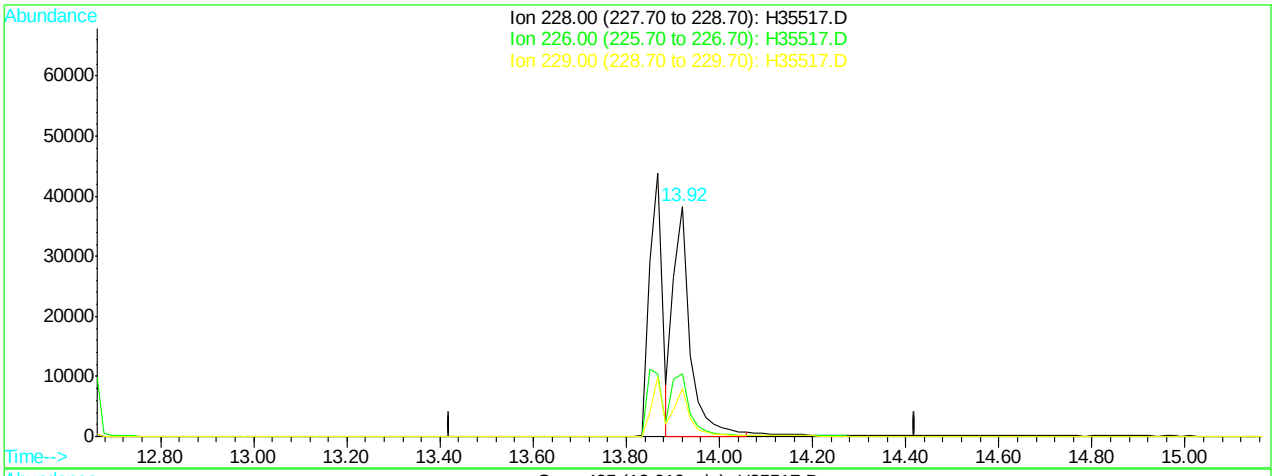
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	68.23
115.00	0.00	0.00
0.00	0.00	0.00

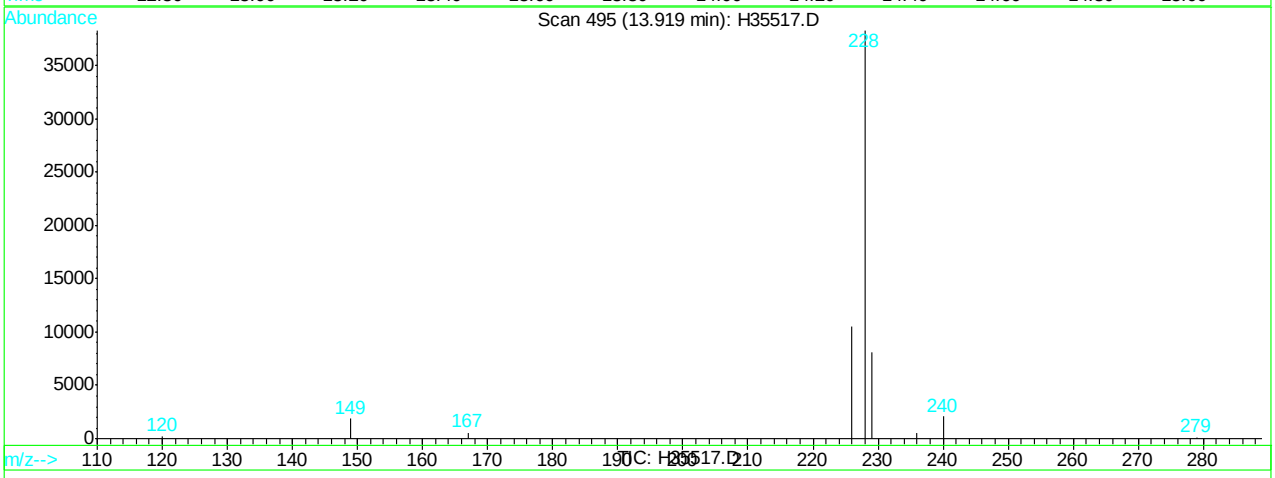
H35517.D H10229SP.M Thu Oct 22 13:38:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 4.95ppb m

response 96836

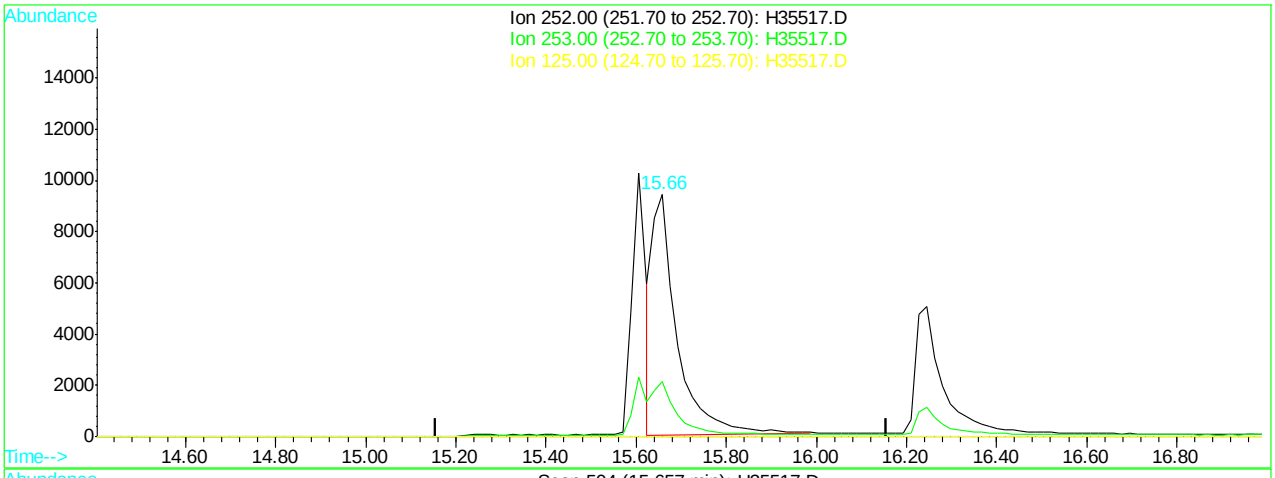
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	27.54
229.00	20.90	21.06
0.00	0.00	0.00

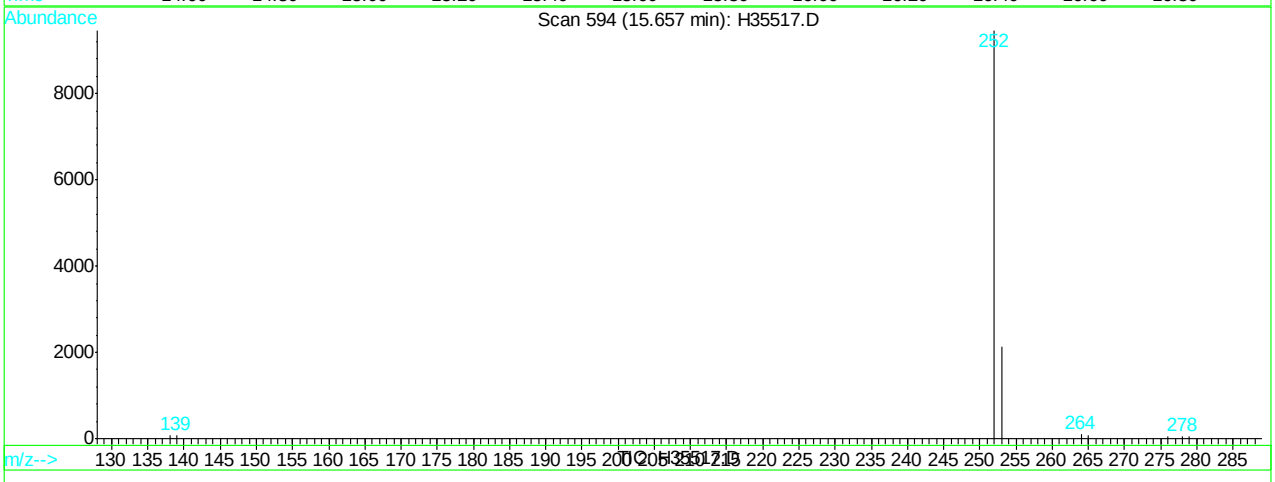
H35517.D H10229SP.M Thu Oct 22 13:38:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 5.13ppb m

response 36201

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.65
125.00	0.00	0.00
0.00	0.00	0.00

H35517.D H10229SP.M Thu Oct 22 13:38:37 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	78182	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	84220	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	48510	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	90103	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	53189	4.00	ppb	0.02
26) Perylene-d12	16.35	264	9406	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	153715	22.50	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 450.00%#			
10) 2-Fluorobiphenyl	8.87	172	1799205	61.44	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1228.80%#			
16) 2,4,6-Tribromophenol	10.40	330	318909	68.27	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 682.70%#			
23) Terphenyl-d14	12.66	244	432444	64.72	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1294.40%#			

Target Compounds

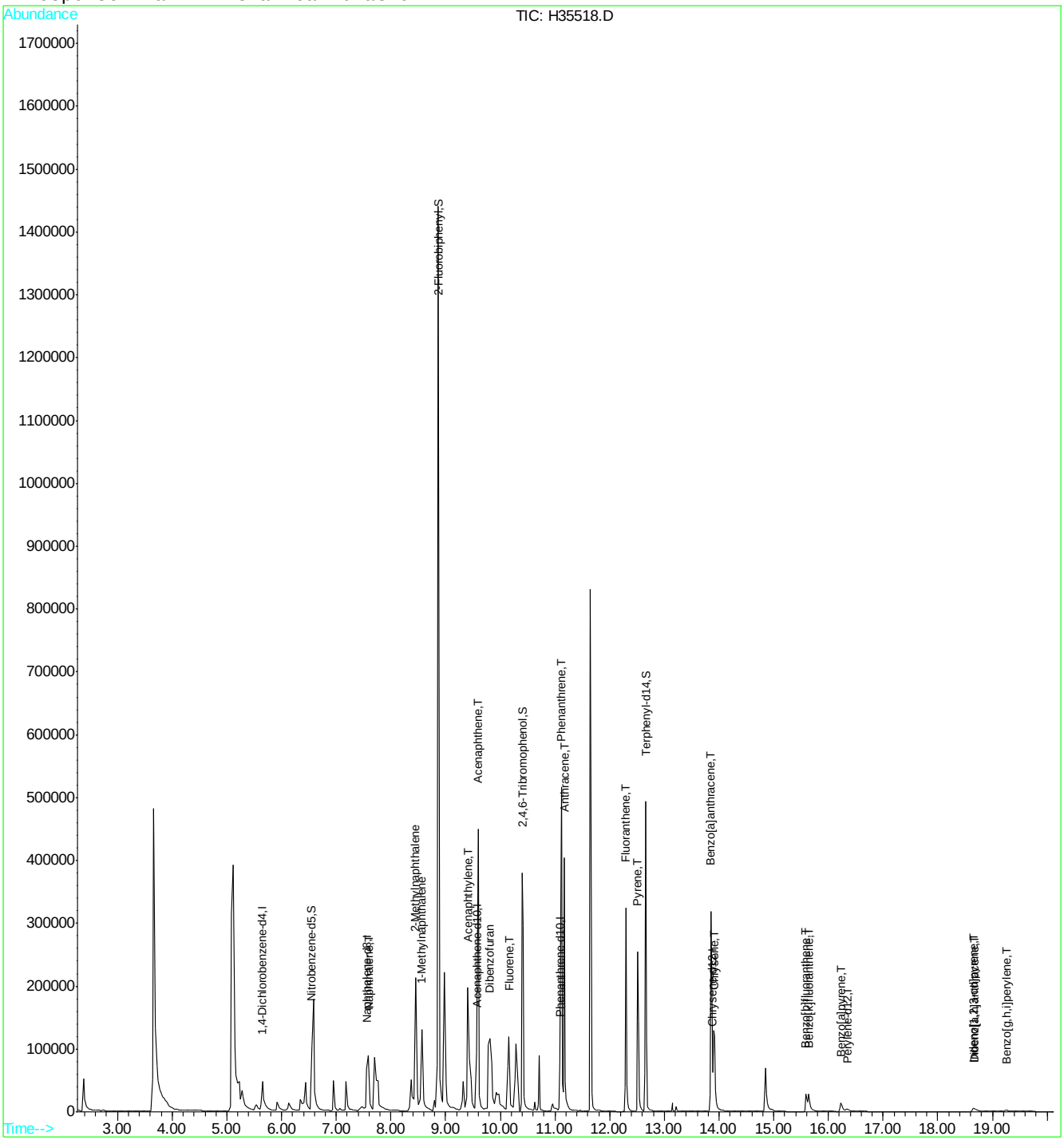
							Qvalue
6) Naphthalene	7.59	128	138853	4.05	ppb		95
7) 2-Methylnaphthalene	8.45	142	252724m	8.72	ppb		
8) 1-Methylnaphthalene	8.57	142	202207	4.80	ppb	#	95
11) Acenaphthylene	9.41	152	300947	7.93	ppb		88
12) Acenaphthene	9.60	153	295655	10.22	ppb	#	64
13) Dibenzofuran	9.81	168	186676	7.63	ppb	#	41
14) Fluorene	10.16	166	118966	6.54	ppb	#	40
18) Phenanthrene	11.11	178	469805	9.67	ppb		93
19) Anthracene	11.17	178	407079	7.94	ppb		99
20) Fluoranthene	12.29	202	377868	7.76	ppb		99
22) Pyrene	12.51	202	377010	12.51	ppb	#	94
24) Benzo[a]anthracene	13.85	228	198853	10.23	ppb		87
25) Chrysene	13.92	228	207372	10.72	ppb		93
27) Benzo[b]fluoranthene	15.59	252	56431	15.38	ppb		97
28) Benzo[k]fluoranthene	15.64	252	60937m	12.05	ppb		
29) Benzo[a]pyrene	16.23	252	40464	13.33	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.65	276	14816	14.37	ppb		94
31) Dibenz[a,h]anthracene	18.67	278	10339	16.13	ppb		95
32) Benzo[g,h,i]perylene	19.26	276	11094	14.89	ppb		98

(#) = qualifier out of range (m) = manual integration
H35518.D H10229SP.M Thu Oct 22 13:38:43 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: H10219SP.RES

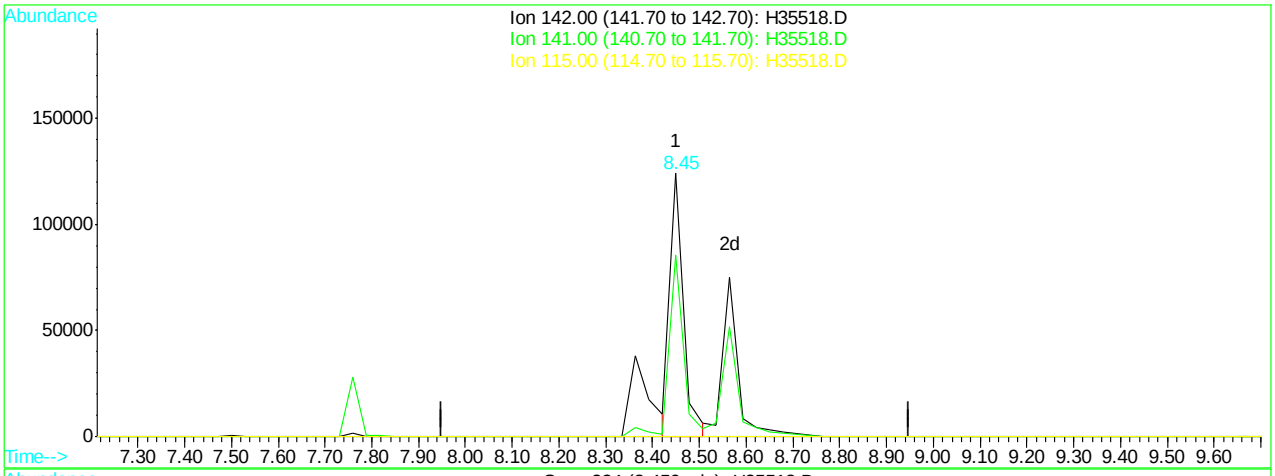
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

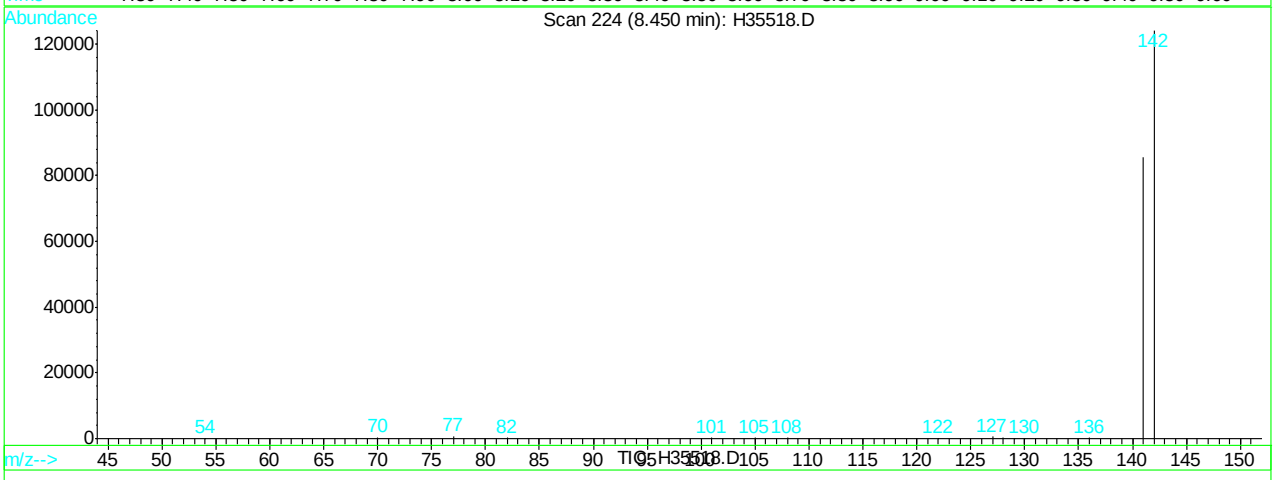


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 8.72ppb m

response 252724

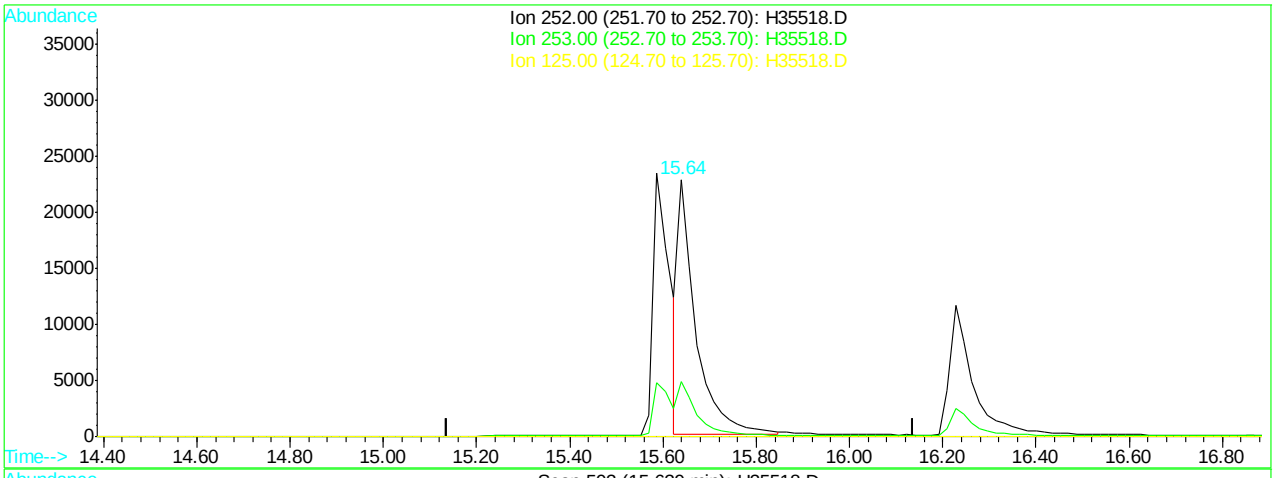
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	72.90
115.00	0.00	0.00
0.00	0.00	0.00

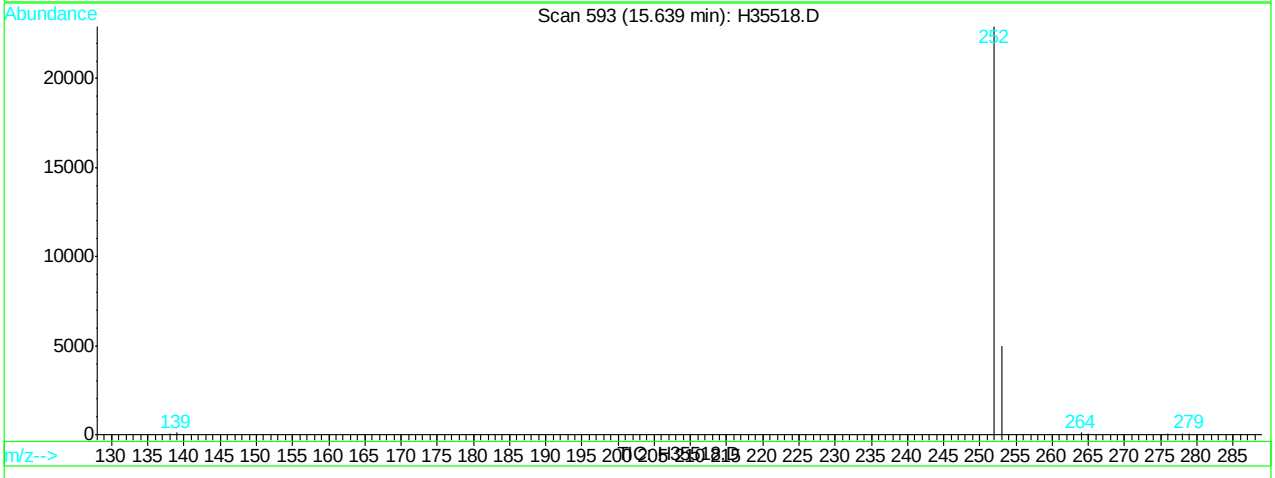
H35518.D H10229SP.M Thu Oct 22 13:38:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 12.05ppb m

response 60937

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.59
125.00	0.00	0.00
0.00	0.00	0.00

H35518.D H10229SP.M Thu Oct 22 13:39:03 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 14:43:08 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	113916	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	130932	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	63895	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	99758	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	54593	4.00	ppb	0.00
26) Perylene-d12	16.35	264	11936	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#	
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb	
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#	
23) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#	

Target Compounds

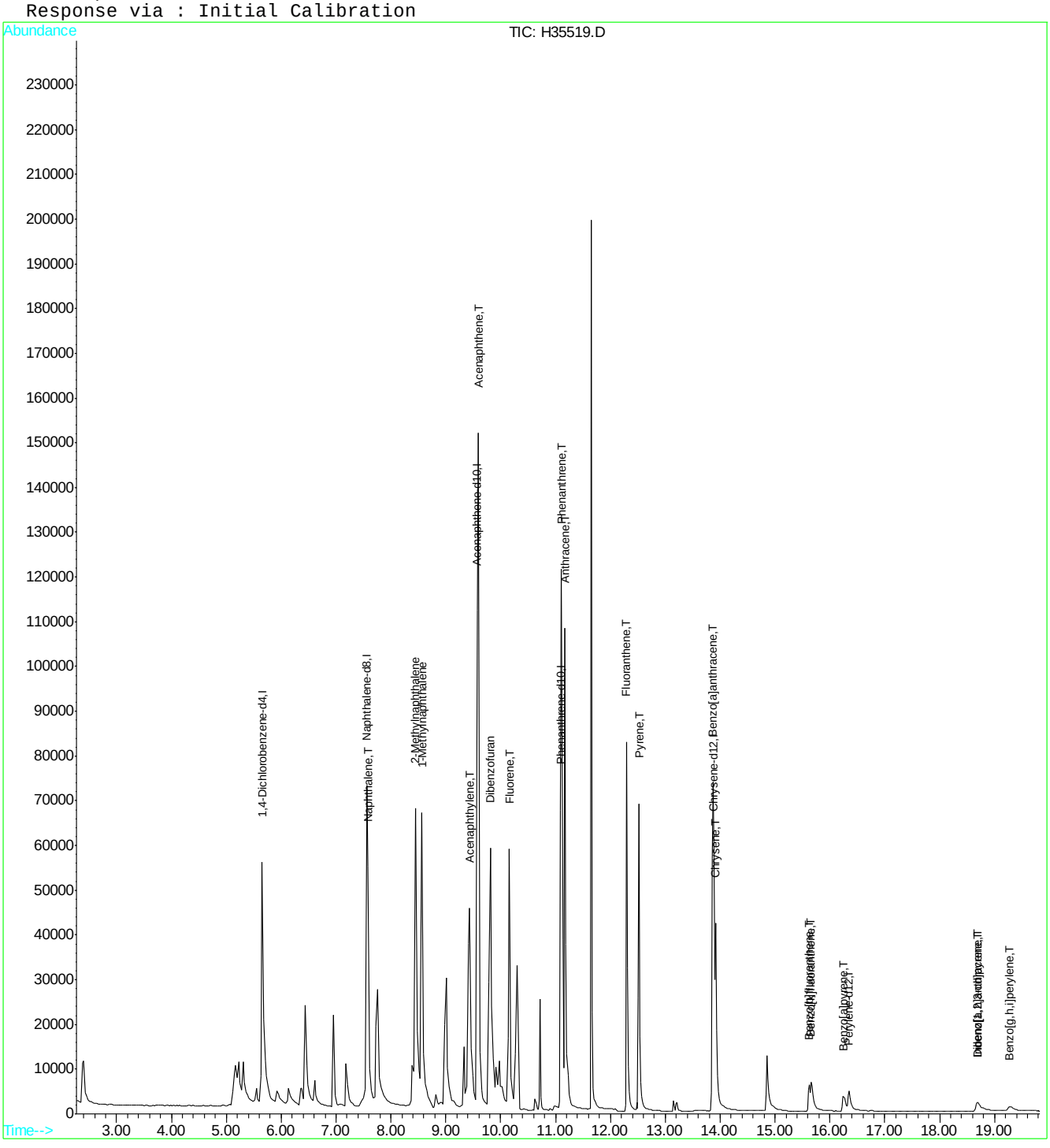
							Qvalue
6) Naphthalene	7.59	128	73488	2.49	ppb		97
7) 2-Methylnaphthalene	8.45	142	114102	2.40	ppb	#	87
8) 1-Methylnaphthalene	8.56	142	109437	2.43	ppb	#	98
11) Acenaphthylene	9.43	152	85416	2.38	ppb	#	79
12) Acenaphthene	9.60	153	100158	2.74	ppb		81
13) Dibenzofuran	9.81	168	89641	2.99	ppb		95
14) Fluorene	10.16	166	51473	3.08	ppb		98
18) Phenanthrene	11.11	178	118291	2.47	ppb		92
19) Anthracene	11.17	178	139346	2.80	ppb		94
20) Fluoranthene	12.29	202	117108	2.75	ppb		98
22) Pyrene	12.53	202	111359	2.53	ppb	#	79
24) Benzo[a]anthracene	13.87	228	46953m	2.65	ppb		
25) Chrysene	13.92	228	58199m	2.67	ppb		
27) Benzo[b]fluoranthene	15.62	252	12842	2.76	ppb		98
28) Benzo[k]fluoranthene	15.66	252	21335m	2.42	ppb		
29) Benzo[a]pyrene	16.24	252	11657	2.46	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.68	276	5117	2.61	ppb		99
31) Dibenz[a,h]anthracene	18.68	278	3348	2.57	ppb		95
32) Benzo[g,h,i]perylene	19.27	276	4458	2.61	ppb		96

(#) = qualifier out of range (m) = manual integration
H35519.D H10229SP.M Thu Oct 22 13:39:09 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: H10219SP.RES

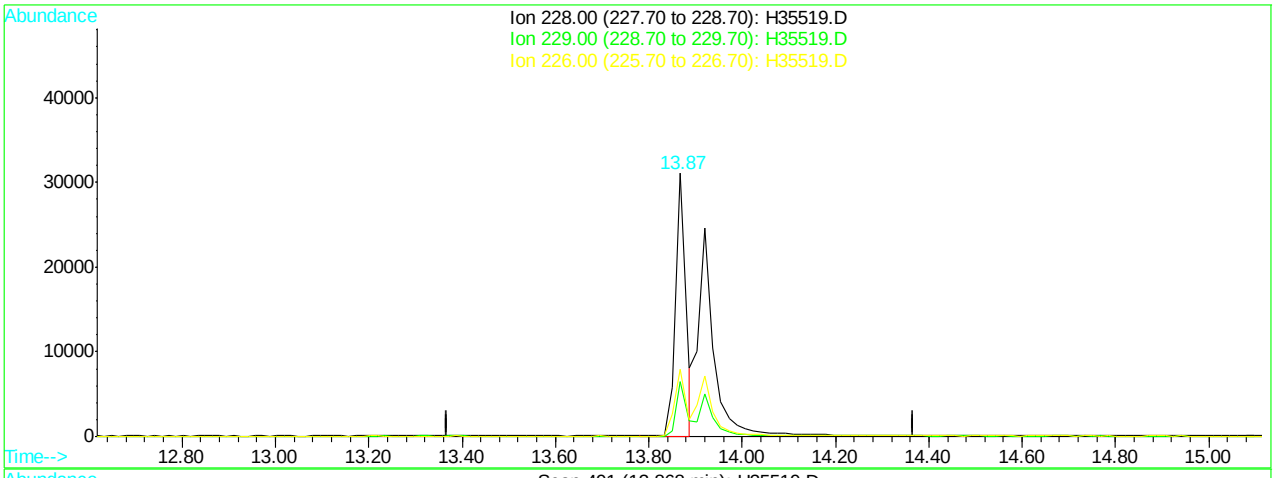
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

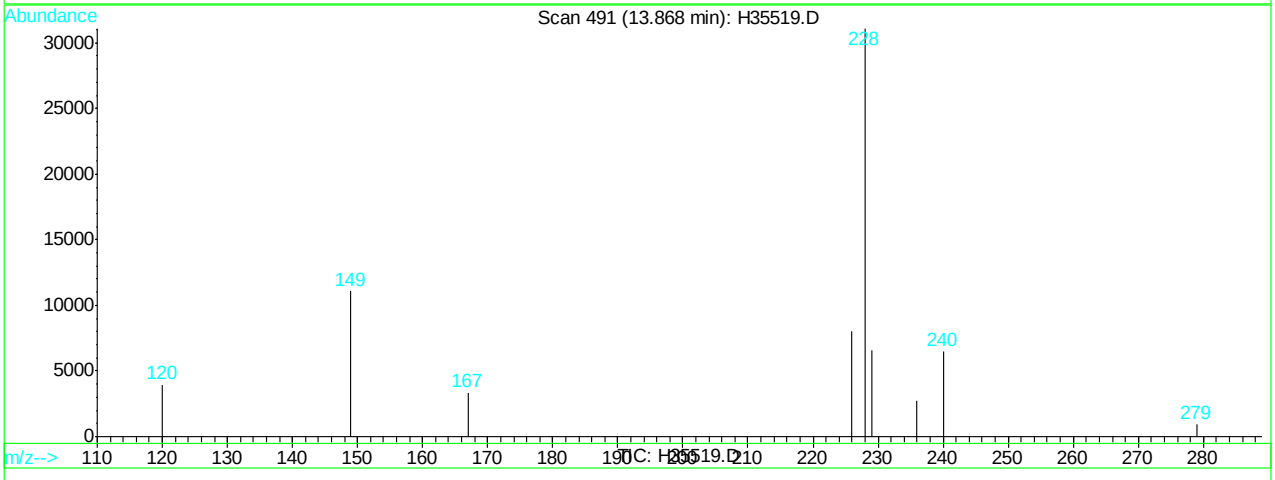


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 2.65ppb m

response 46953

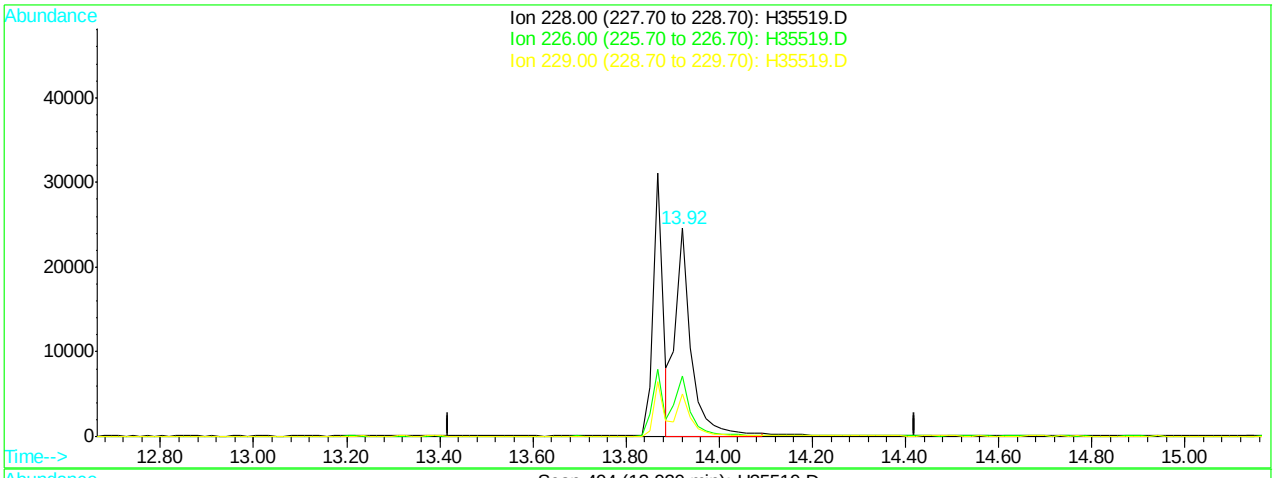
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	21.09
226.00	23.70	25.70
0.00	0.00	0.00

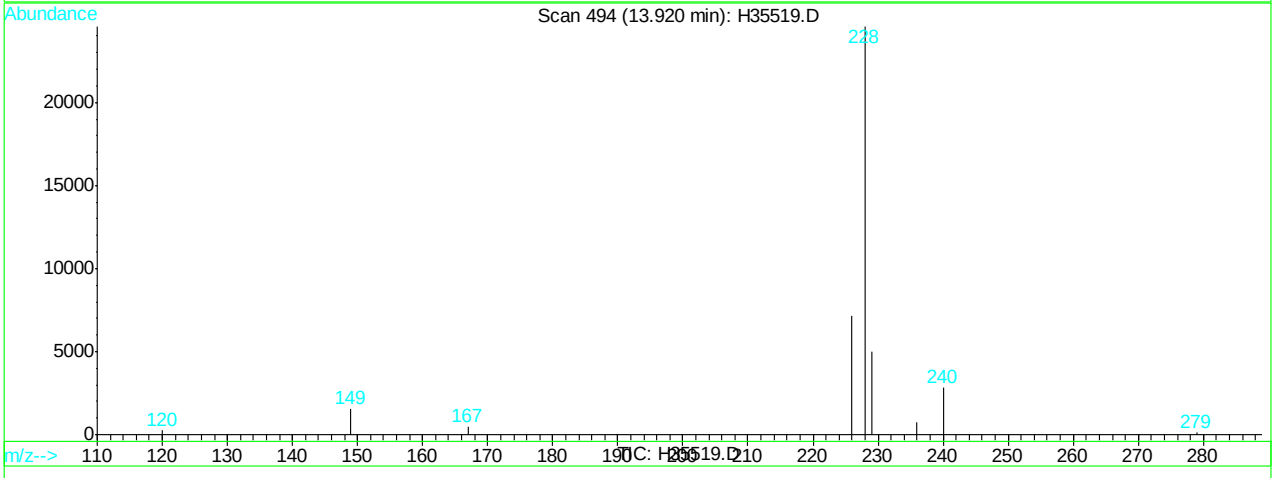
H35519.D H10229SP.M Thu Oct 22 13:39:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 2.67ppb m

response 58199

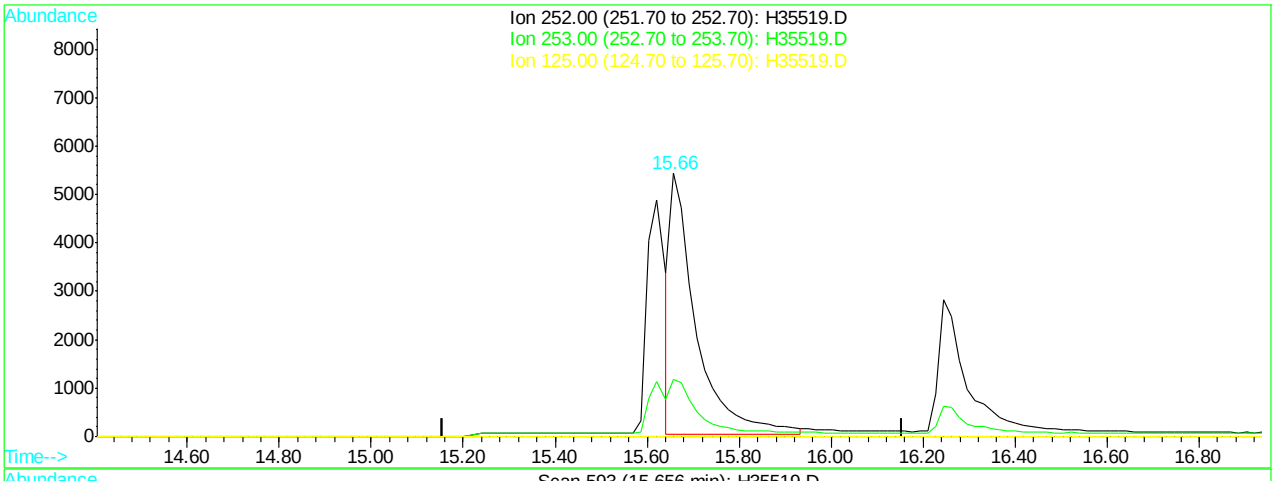
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	28.99
229.00	20.90	20.32
0.00	0.00	0.00

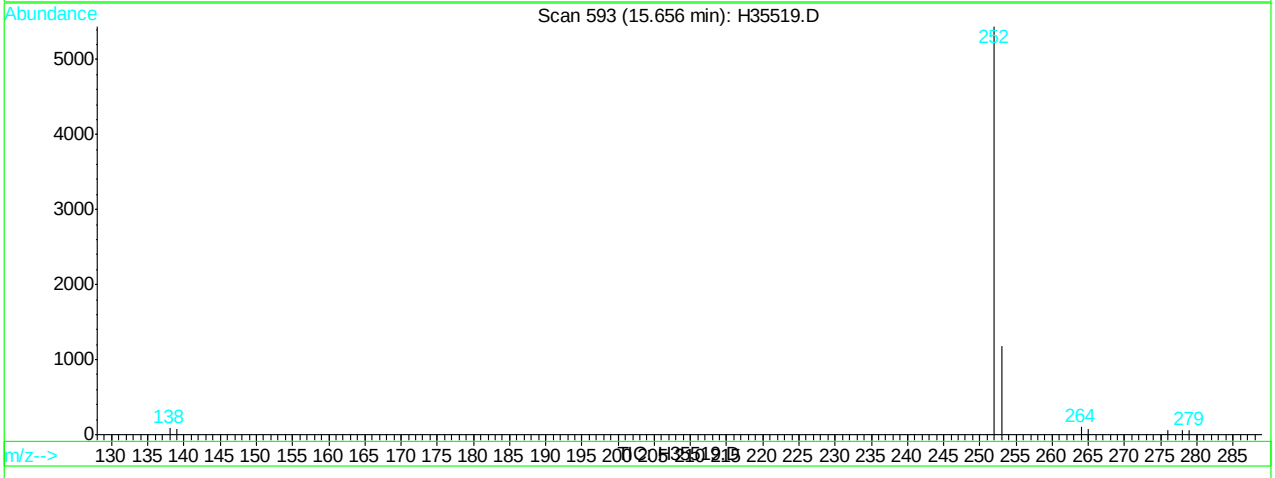
H35519.D H10229SP.M Thu Oct 22 13:39:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 2.42ppb m

response 21335

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	21.59
125.00	0.00	0.00
0.00	0.00	0.00

H35519.D H10229SP.M Thu Oct 22 13:39:36 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:53:41 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	99258	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	92355	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	65780	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	81086	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	9097	4.00	ppb	0.00
26) Perylene-d12	16.38	264	4085	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	50484	9.59	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 191.80%#			
10) 2-Fluorobiphenyl	8.87	172	386313	7.37	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 147.40%#			
16) 2,4,6-Tribromophenol	10.40	330	75337	30.34	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 303.40%#			
23) Terphenyl-d14	12.66	244	31134	13.51	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 270.20%#			

Target Compounds

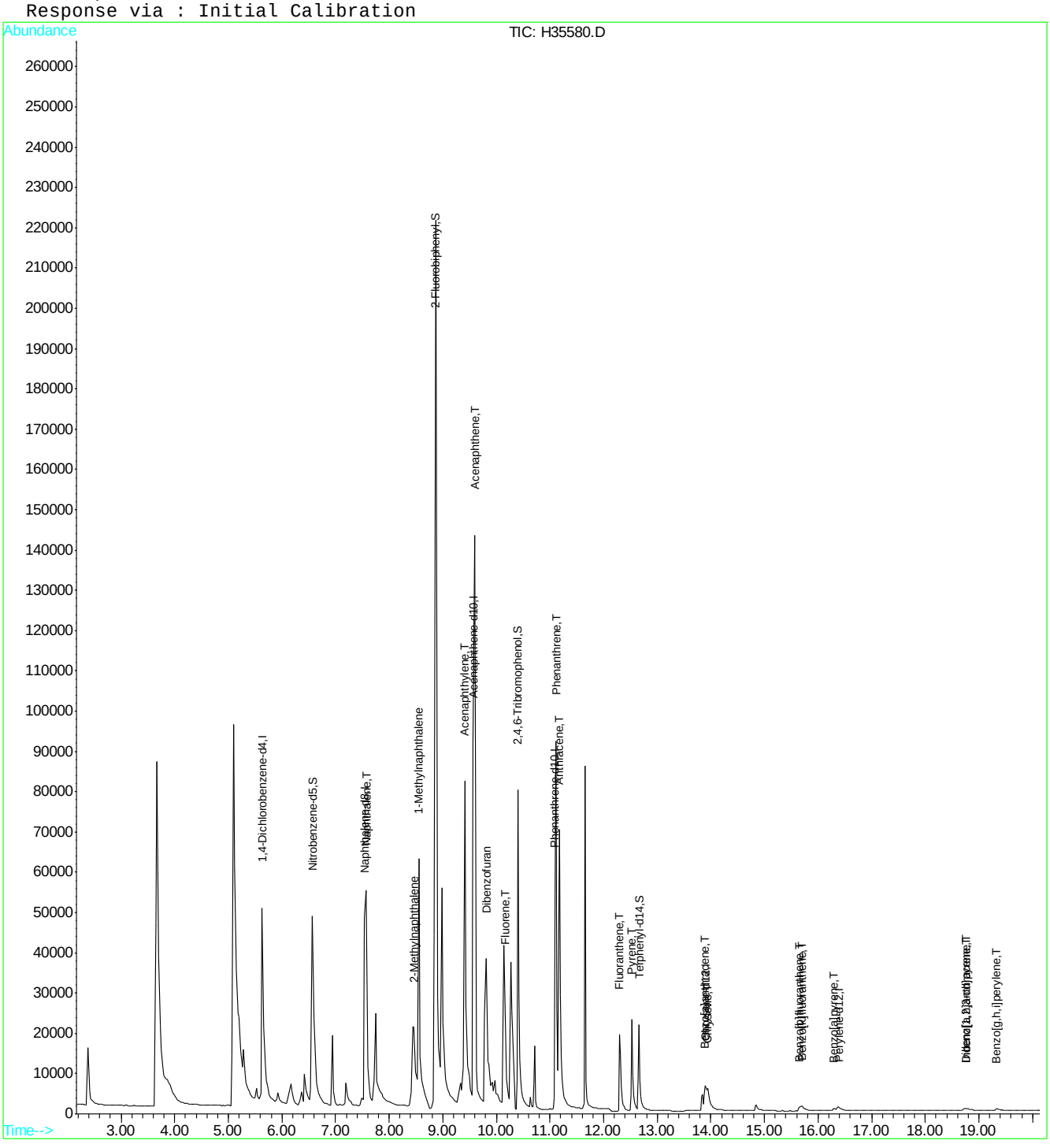
							Qvalue
6) Naphthalene	7.57	128	77225	1.84	ppb		91
7) 2-Methylnaphthalene	8.46	142	55399m	2.06	ppb		
8) 1-Methylnaphthalene	8.55	142	95129m	2.14	ppb		
11) Acenaphthylene	9.41	152	120792	2.65	ppb	#	86
12) Acenaphthene	9.60	153	93555	2.41	ppb	#	69
13) Dibenzofuran	9.81	168	74971	1.72	ppb		92
14) Fluorene	10.16	166	45723	1.87	ppb		96
18) Phenanthrene	11.11	178	91764	2.42	ppb		90
19) Anthracene	11.17	178	107144	2.50	ppb		91
20) Fluoranthene	12.29	202	41857	2.06	ppb	#	92
22) Pyrene	12.53	202	42511	2.80	ppb		95
24) Benzo[a]anthracene	13.89	228	6035m	2.51	ppb		
25) Chrysene	13.94	228	9685m	2.37	ppb		
27) Benzo[b]fluoranthene	15.66	252	2430m	2.40	ppb		
28) Benzo[k]fluoranthene	15.69	252	5439m	2.97	ppb		
29) Benzo[a]pyrene	16.30	252	3394	2.50	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.75	276	2421	2.83	ppb		89
31) Dibenz[a,h]anthracene	18.75	278	1745	2.54	ppb	#	91
32) Benzo[g,h,i]perylene	19.32	276	2249	2.76	ppb		89

(#) = qualifier out of range (m) = manual integration
H35580.D H10239SP.M Tue Oct 27 15:17:04 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: H10239SP.RES

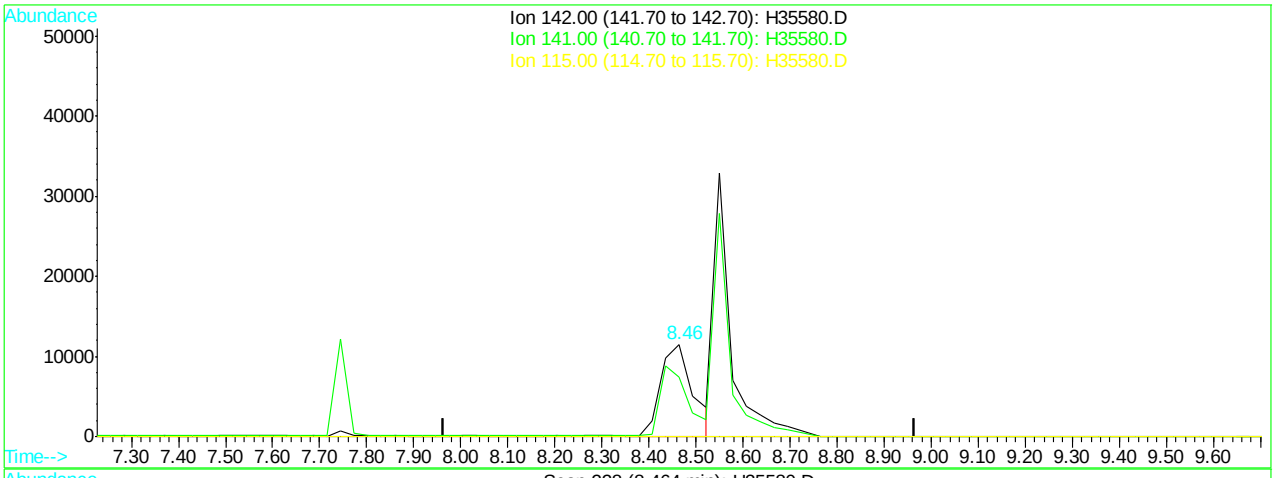
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

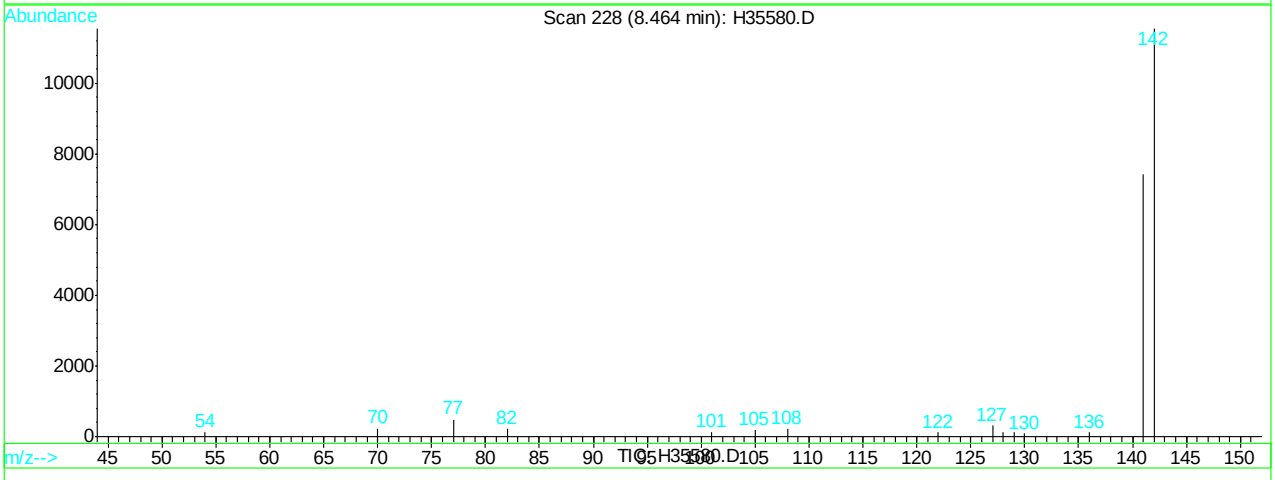


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 2.06ppb m

response 55399

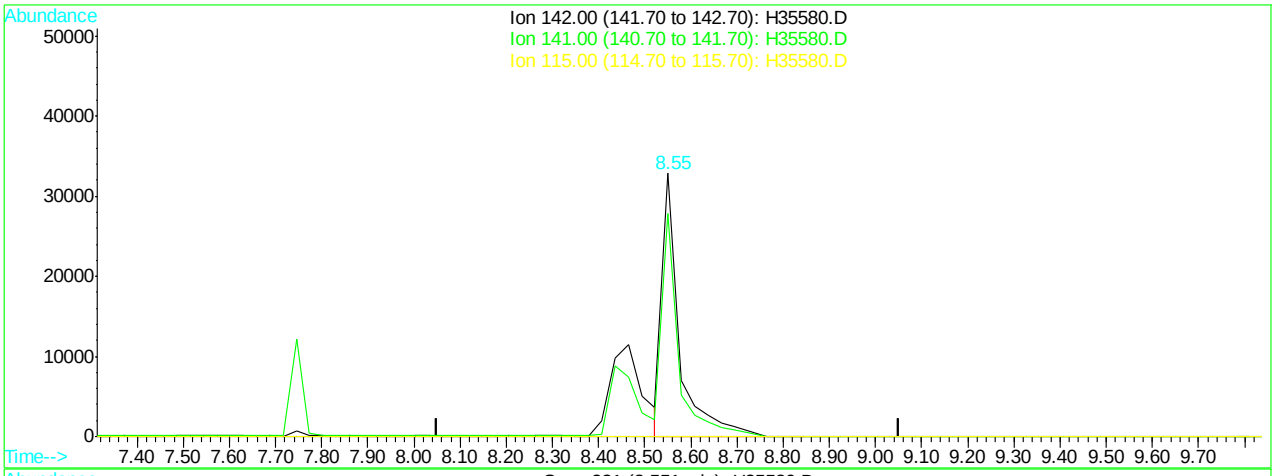
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	148.51#
115.00	0.00	0.00
0.00	0.00	0.00

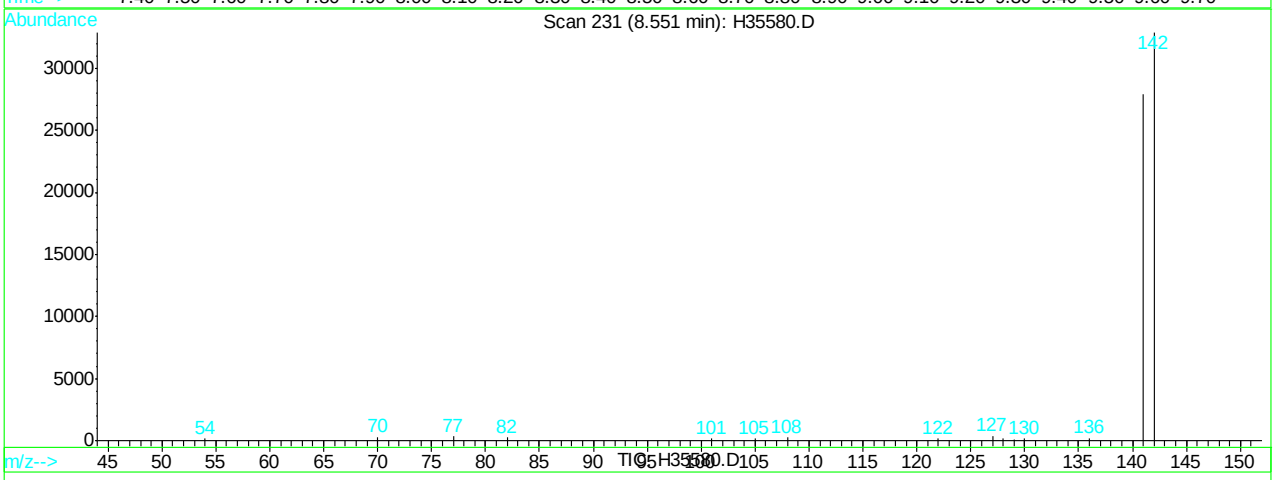
H35580.D H10239SP.M Tue Oct 27 15:18:58 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 2.14ppb m

response 95129

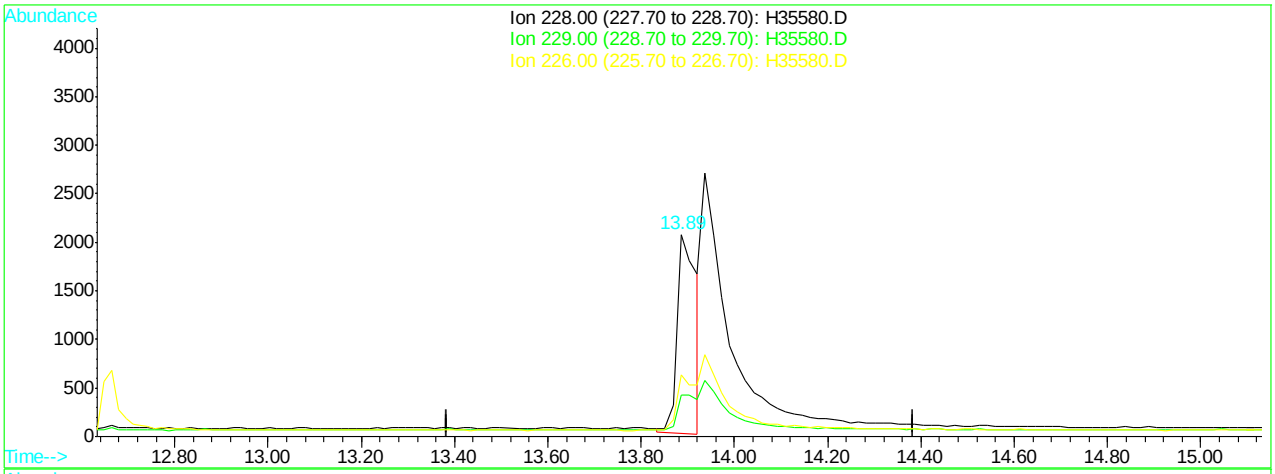
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	86.49#
115.00	0.00	0.00
0.00	0.00	0.00

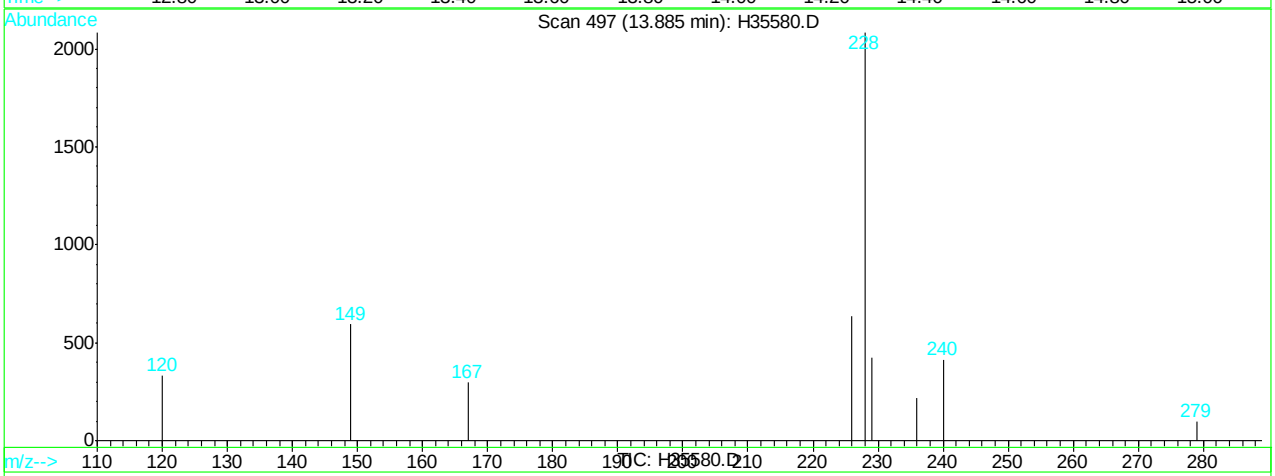
H35580.D H10239SP.M Tue Oct 27 15:19:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.89min 2.51ppb m

response 6035

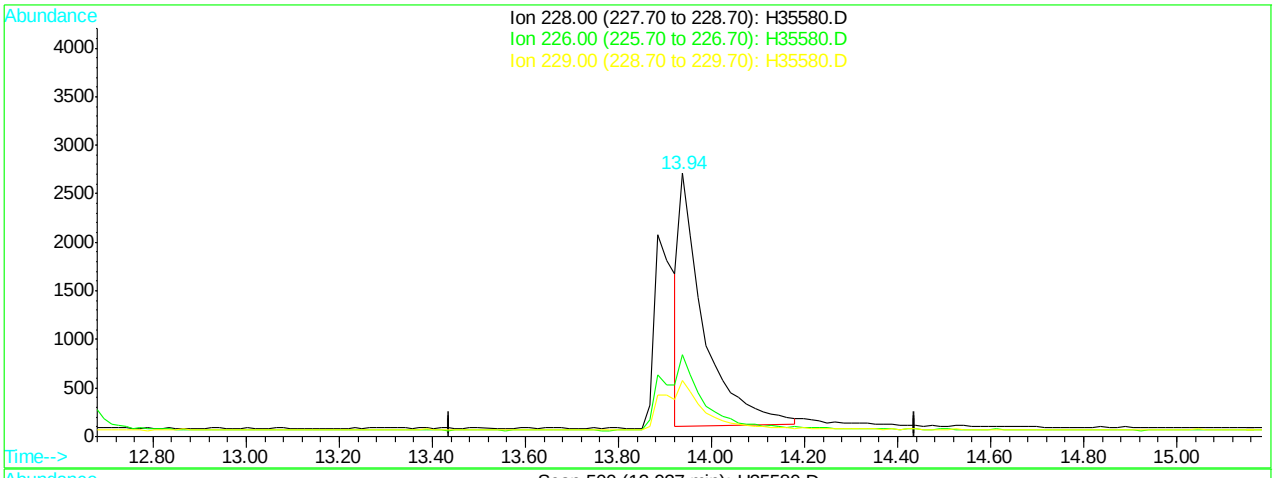
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	20.45
226.00	27.40	30.48
0.00	0.00	0.00

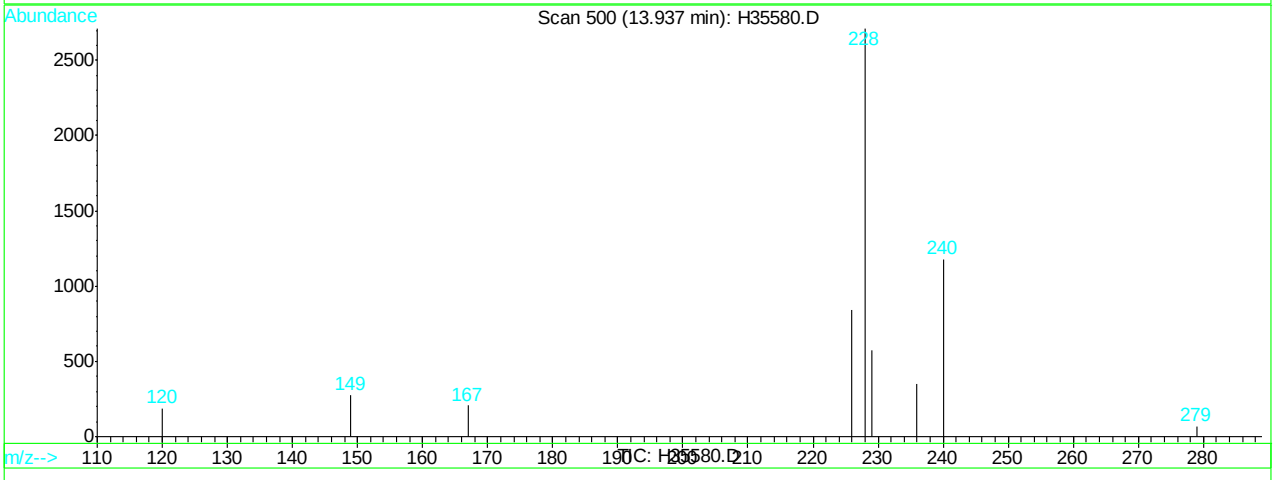
H35580.D H10239SP.M Tue Oct 27 15:19:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.37ppb m

response 9685

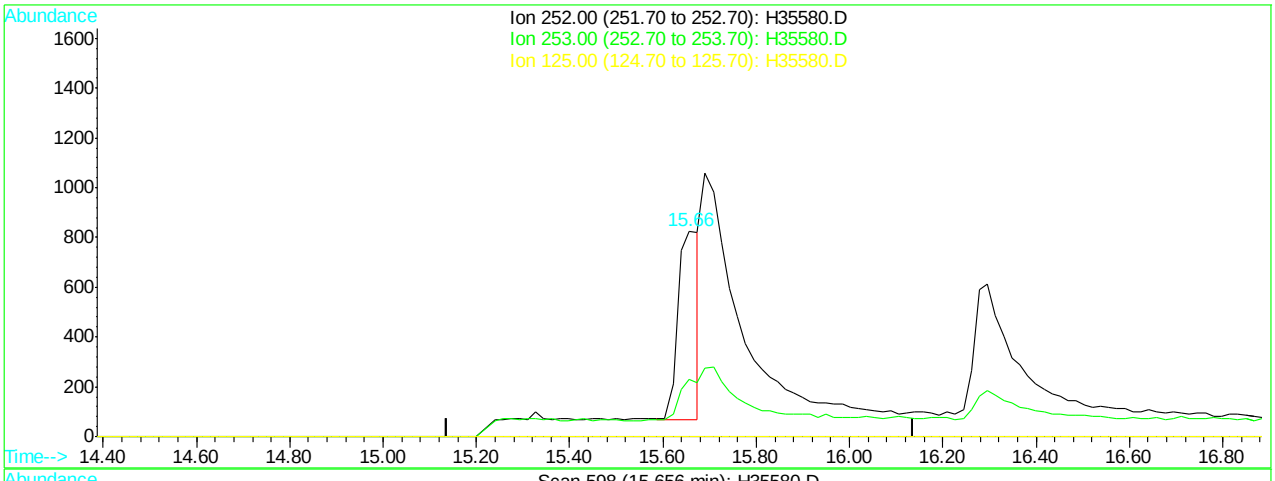
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	31.06
229.00	20.20	21.21
0.00	0.00	0.00

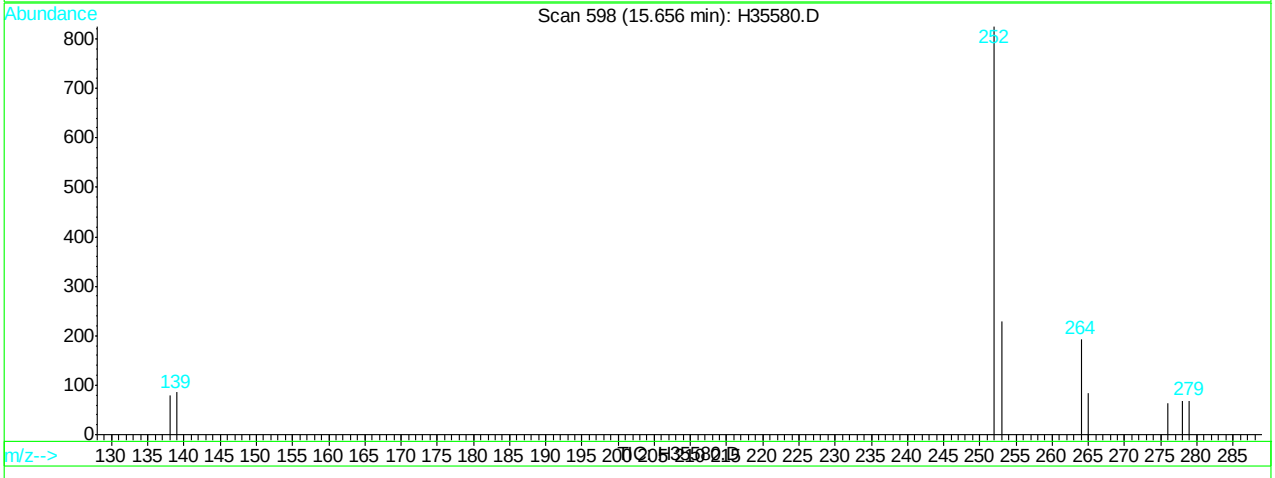
H35580.D H10239SP.M Tue Oct 27 15:19:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 2.40ppb m

response 2430

Ion	Exp%	Act%
252.00	100	100
253.00	23.50	27.76
125.00	0.00	0.00
0.00	0.00	0.00

H35580.D H10239SP.M Tue Oct 27 15:19:13 2009

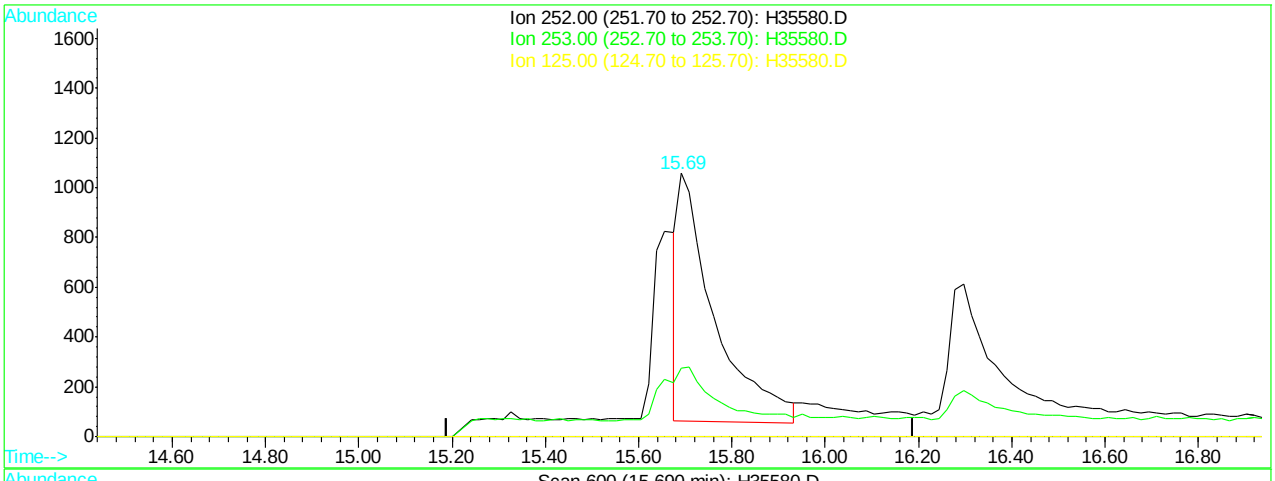
8.6.15.5

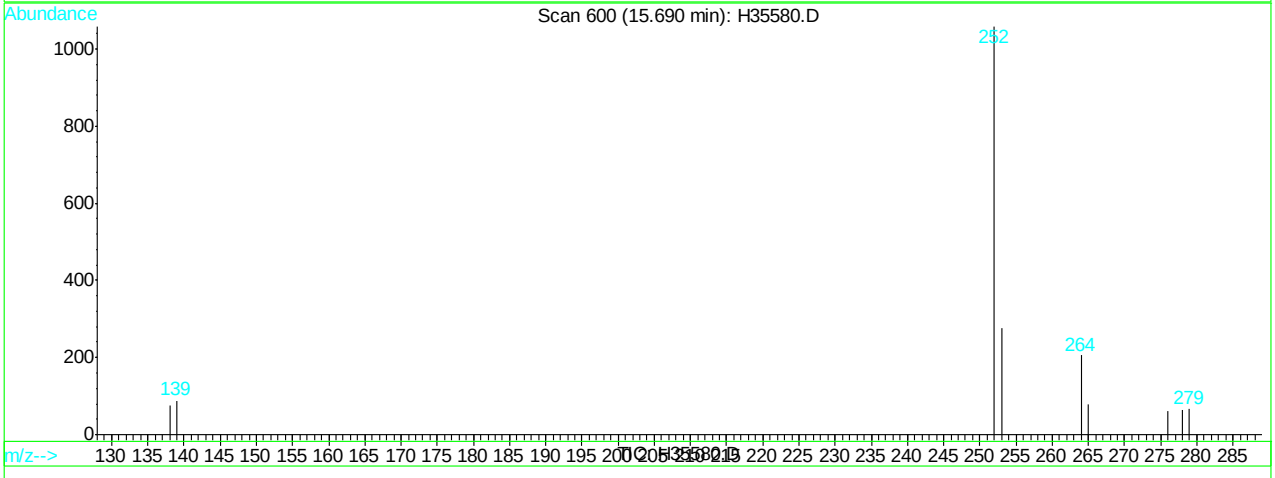
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.97ppb m

response 5439

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	26.09
125.00	0.00	0.00
0.00	0.00	0.00

H35580.D H10239SP.M Tue Oct 27 15:19:17 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 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	102708	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	87587	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	65890	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	68983	4.00	ppb	0.00
21) Chrysene-d12	13.92	240	8000	4.00	ppb	0.02
26) Perylene-d12	16.38	264	4159	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	22553	3.80	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 76.00%			
10) 2-Fluorobiphenyl	8.87	172	192086	3.61	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 72.20%			
16) 2,4,6-Tribromophenol	10.42	330	21629	10.22	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 102.20%			
23) Terphenyl-d14	12.68	244	8519	4.27	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 85.40%			

Target Compounds

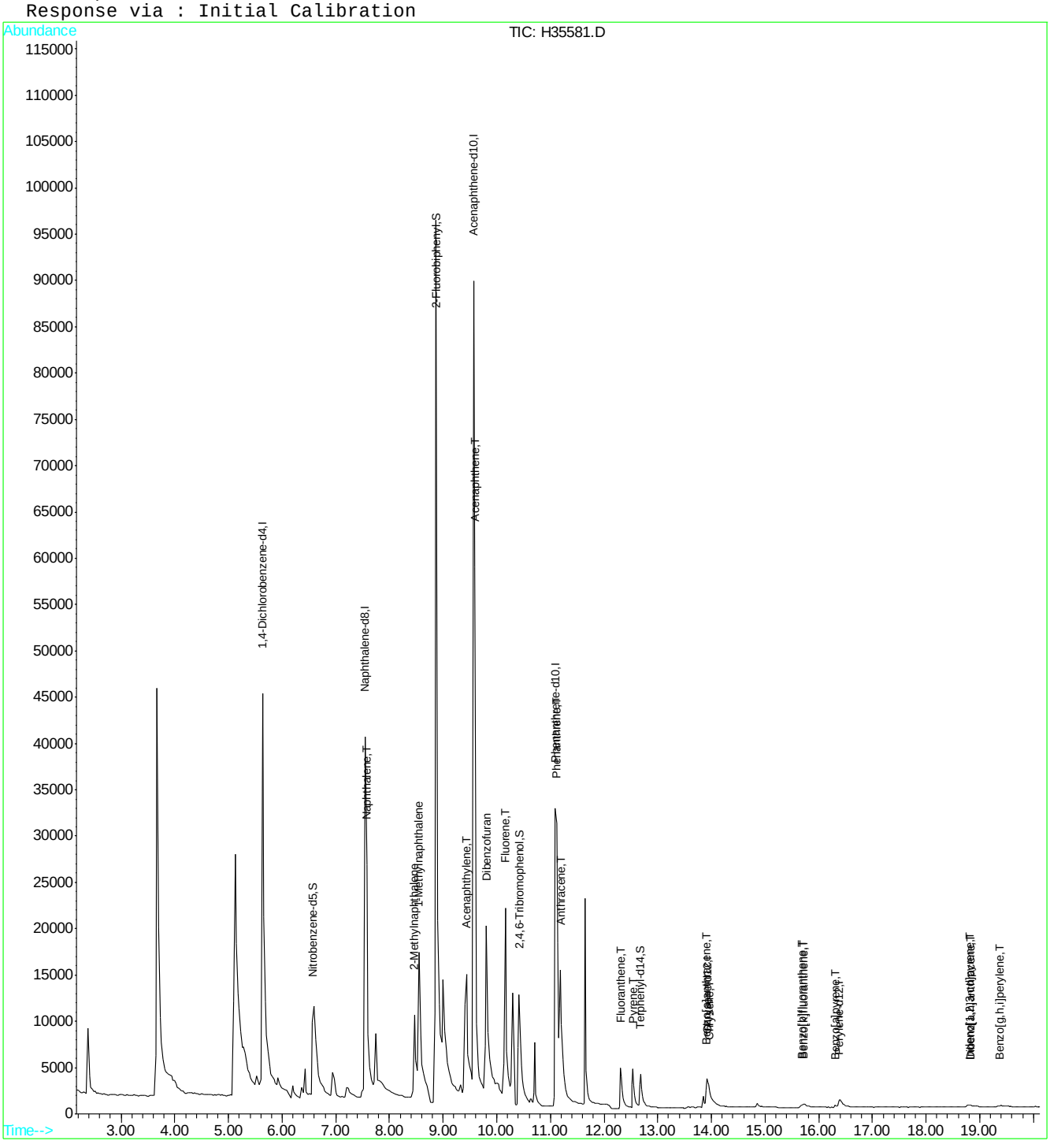
							Qvalue
6) Naphthalene	7.57	128	29276	0.64	ppb		92
7) 2-Methylnaphthalene	8.46	142	16608m	0.63	ppb		
8) 1-Methylnaphthalene	8.55	142	32761m	0.71	ppb		
11) Acenaphthylene	9.43	152	28073	0.64	ppb		100
12) Acenaphthene	9.59	153	36972	0.94	ppb		79
13) Dibenzofuran	9.81	168	44354	0.93	ppb		90
14) Fluorene	10.16	166	20877	0.81	ppb		97
18) Phenanthrene	11.11	178	27228	0.84	ppb		96
19) Anthracene	11.19	178	36383m	0.97	ppb		
20) Fluoranthene	12.31	202	11615	0.64	ppb	#	96
22) Pyrene	12.54	202	12944	0.98	ppb		95
24) Benzo[a]anthracene	13.90	228	1221m	0.56	ppb		
25) Chrysene	13.95	228	4526m	1.27	ppb		
27) Benzo[b]fluoranthene	15.69	252	735m	0.66	ppb		
28) Benzo[k]fluoranthene	15.73	252	1896m	1.04	ppb		
29) Benzo[a]pyrene	16.31	252	1219	0.88	ppb		93
30) Indeno[1,2,3-cd]pyrene	18.81	276	877	0.98	ppb		92
31) Dibenz[a,h]anthracene	18.82	278	571	0.80	ppb	#	91
32) Benzo[g,h,i]perylene	19.38	276	910	1.07	ppb	#	77

(#) = qualifier out of range (m) = manual integration
H35581.D H10239SP.M Tue Oct 27 15:19:25 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: H10239SP.RES

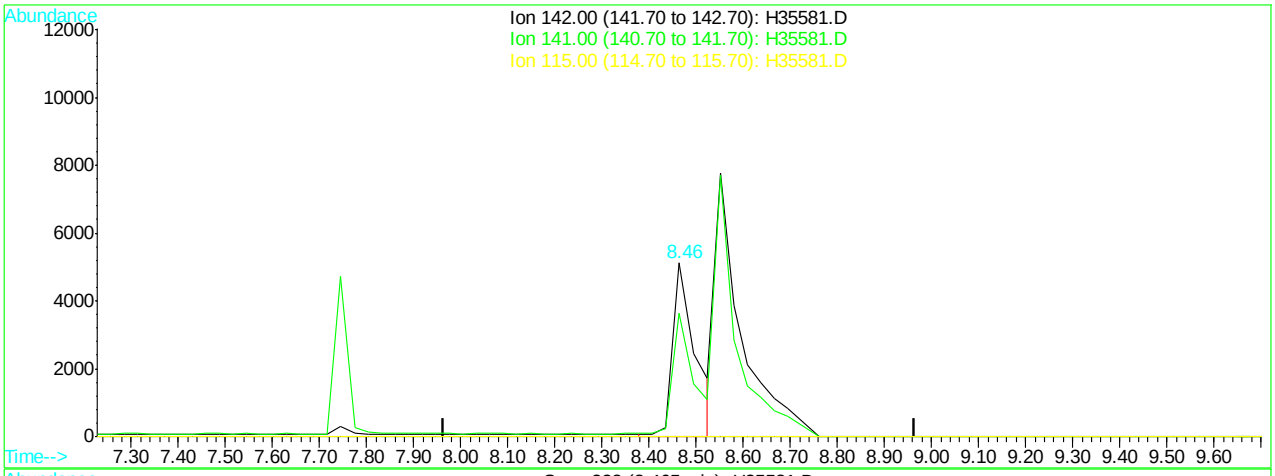
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

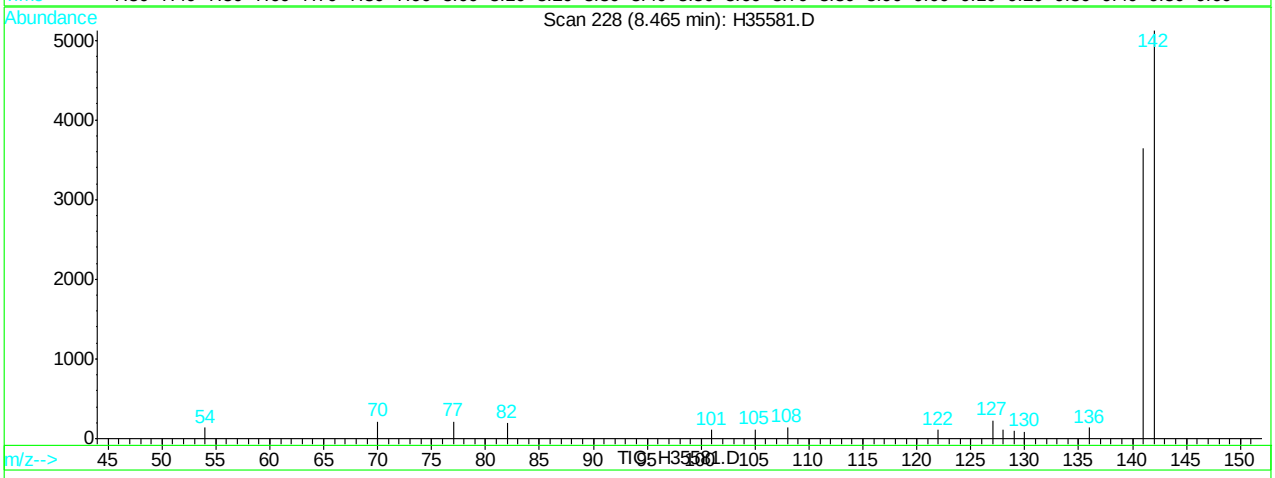


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.63ppb m

response 16608

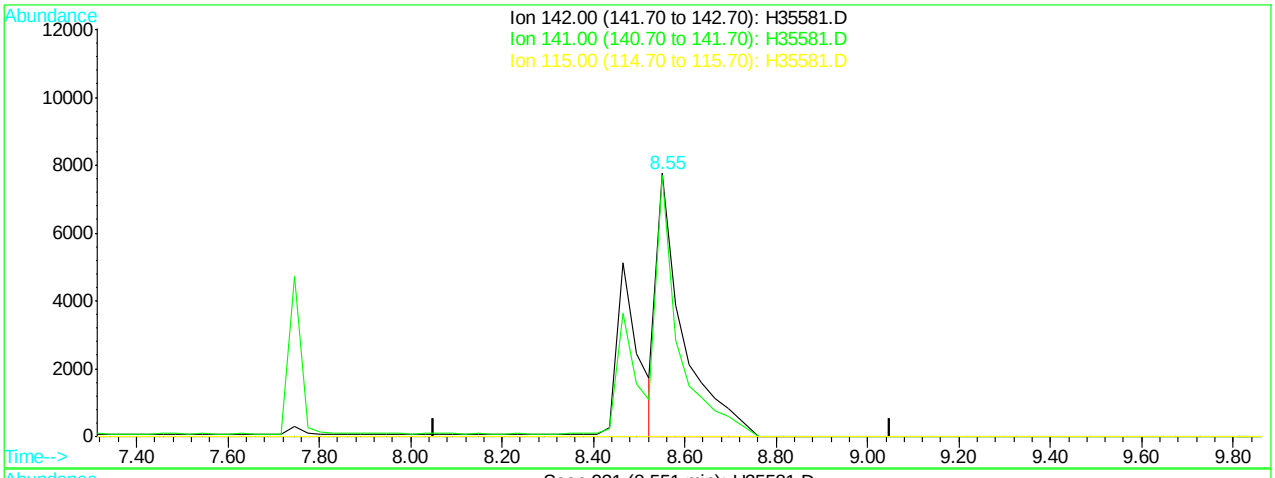
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	240.58#
115.00	0.00	0.00
0.00	0.00	0.00

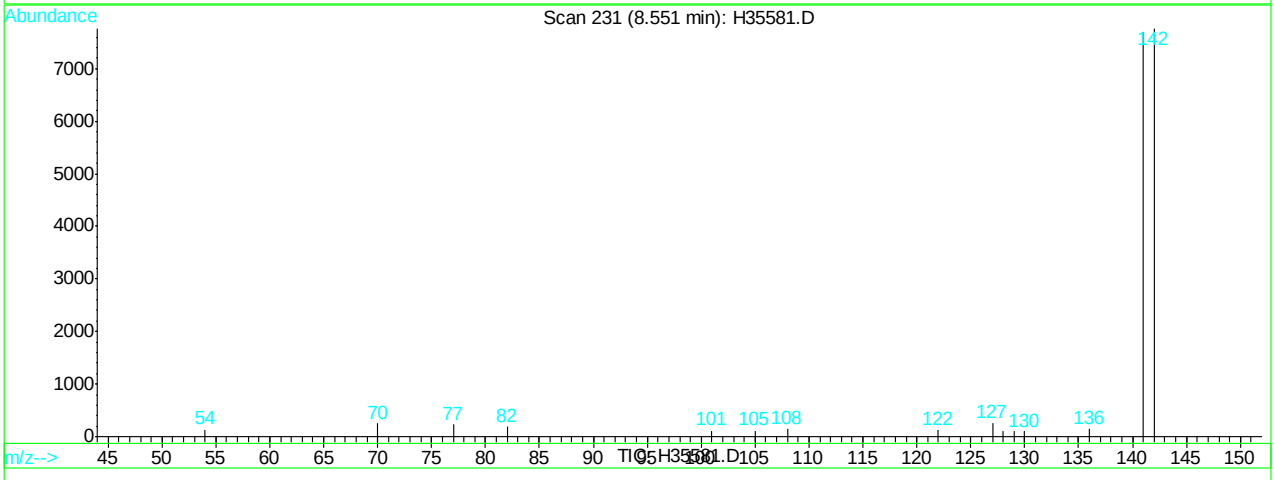
H35581.D H10239SP.M Tue Oct 27 15:19:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 0.71ppb m

response 32761

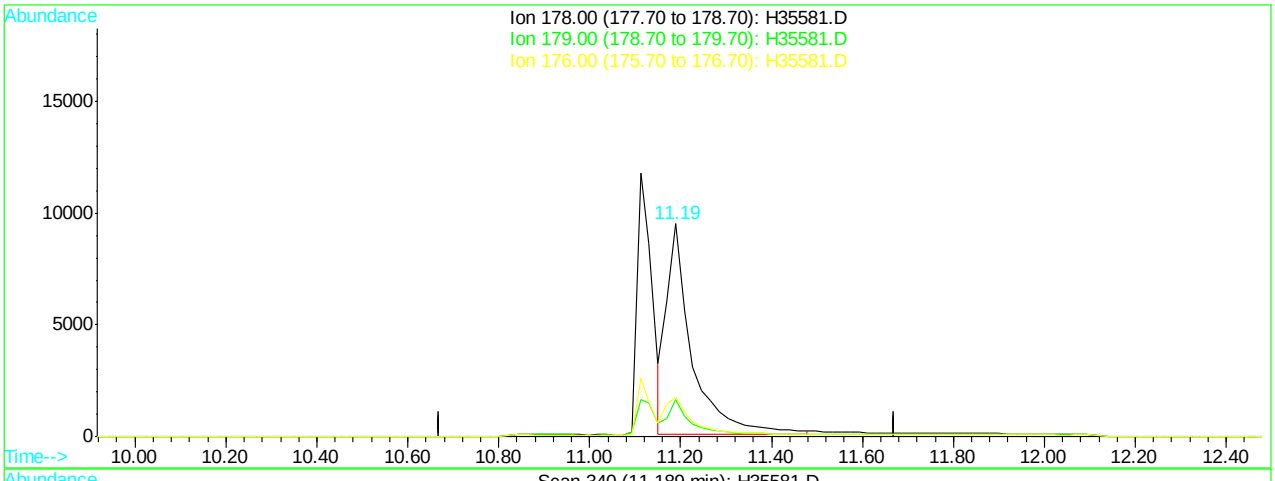
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	121.96
115.00	0.00	0.00
0.00	0.00	0.00

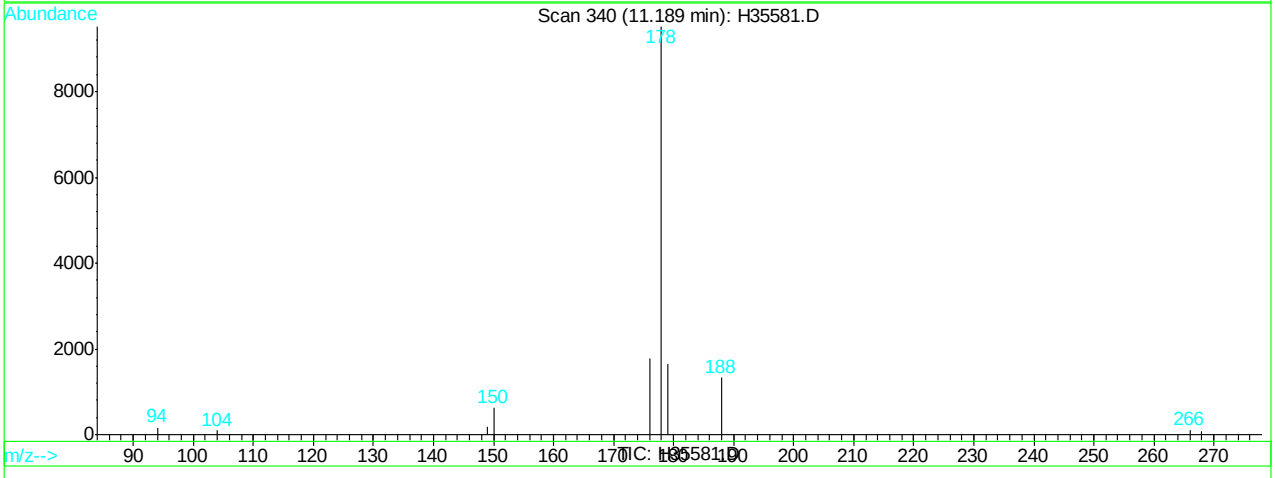
H35581.D H10239SP.M Tue Oct 27 15:19:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.19min 0.97ppb m

response 36383

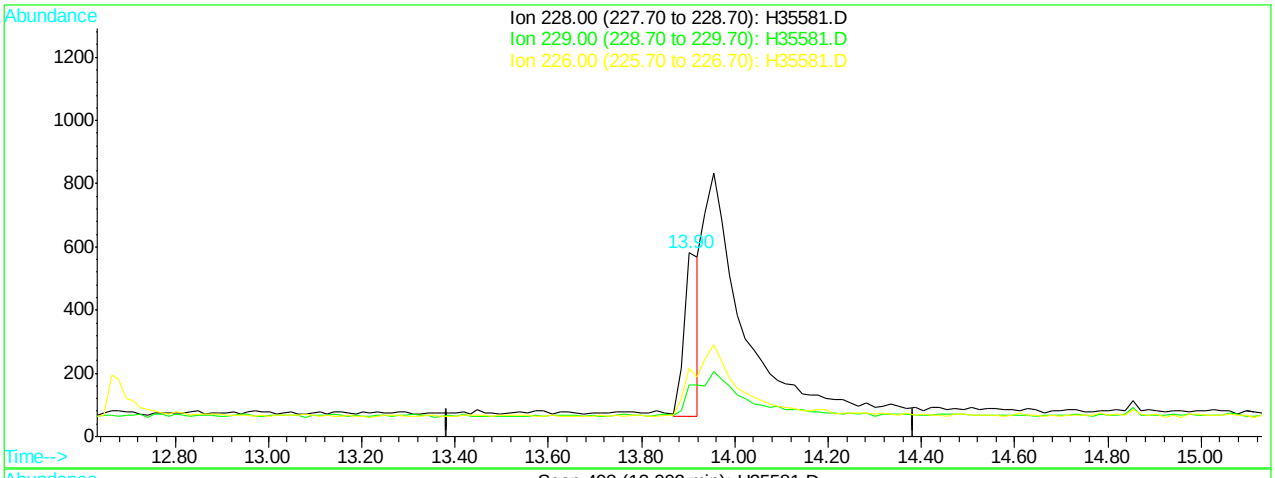
Ion	Exp%	Act%
178.00	100	100
179.00	12.00	17.31#
176.00	23.40	18.66
0.00	0.00	0.00

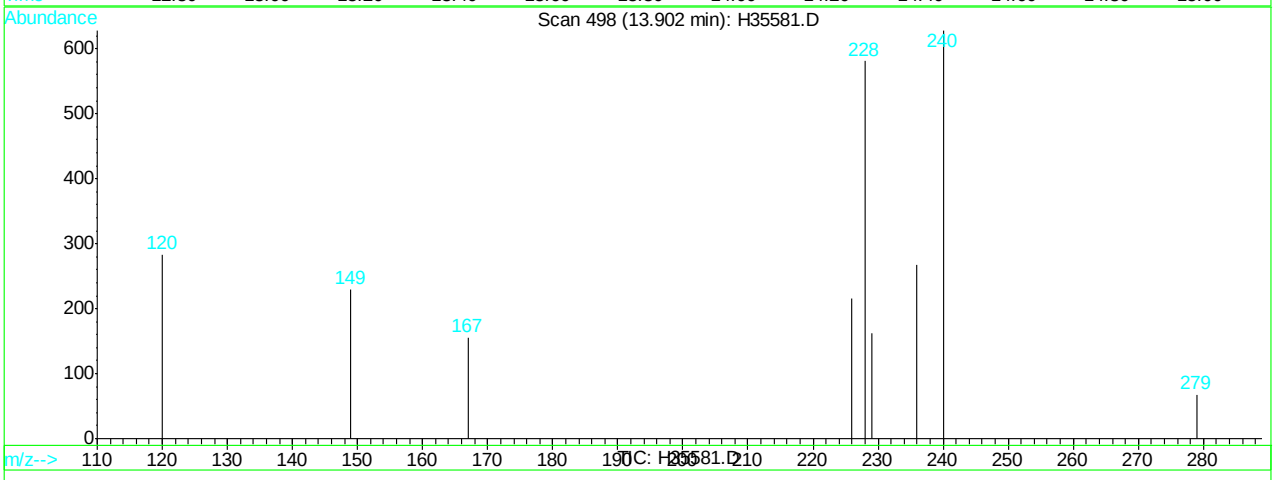
H35581.D H10239SP.M Tue Oct 27 15:20:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.56ppb m

response 1221

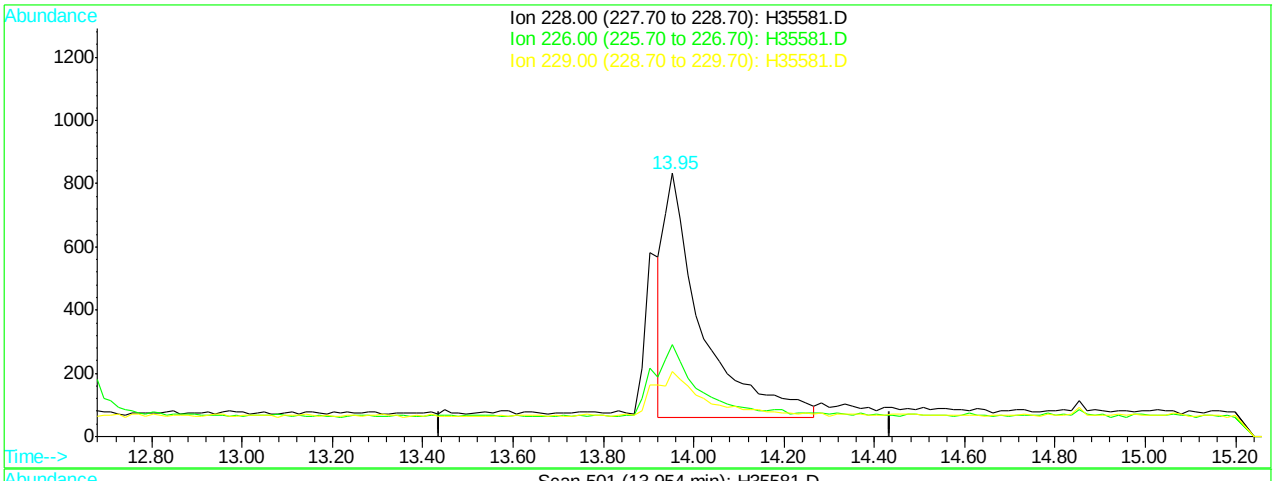
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	27.88#
226.00	27.40	37.18#
0.00	0.00	0.00

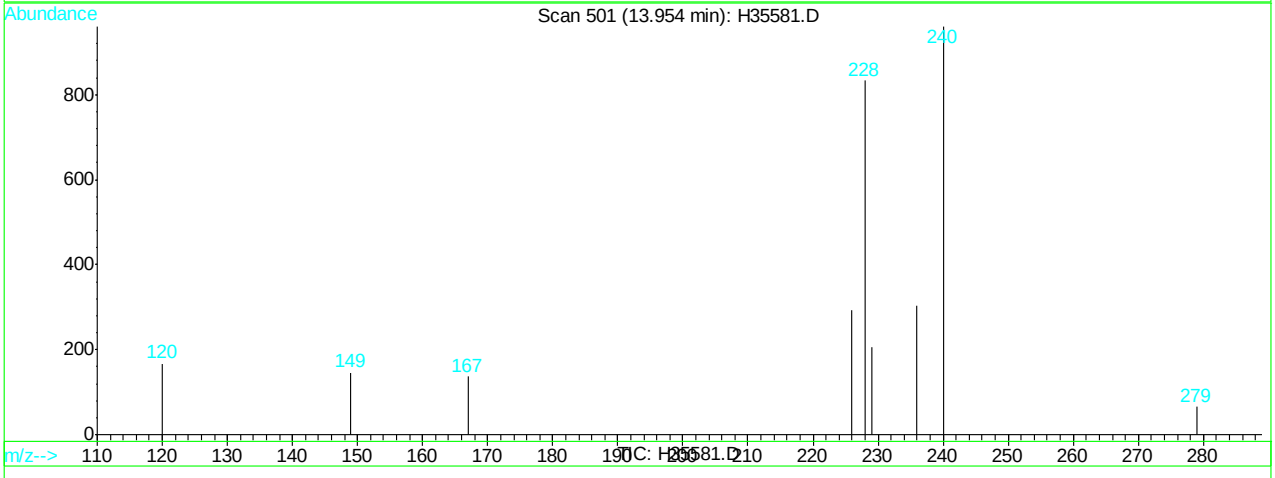
H35581.D H10239SP.M Tue Oct 27 15:20:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 1.27ppb m

response 4526

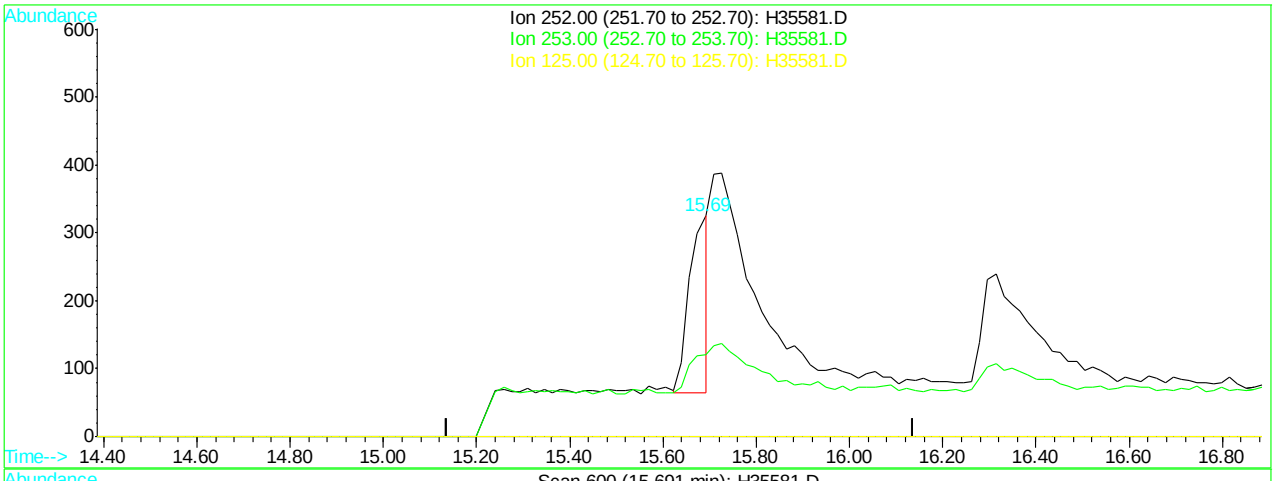
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	35.05
229.00	20.20	24.73
0.00	0.00	0.00

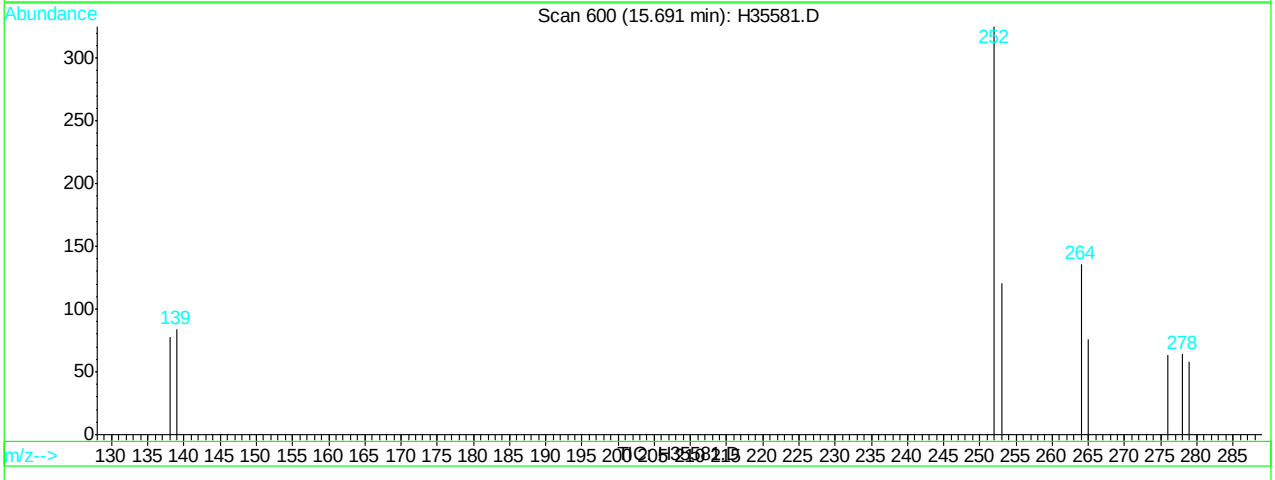
H35581.D H10239SP.M Tue Oct 27 15:20:08 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.69min 0.66ppb m

response 735

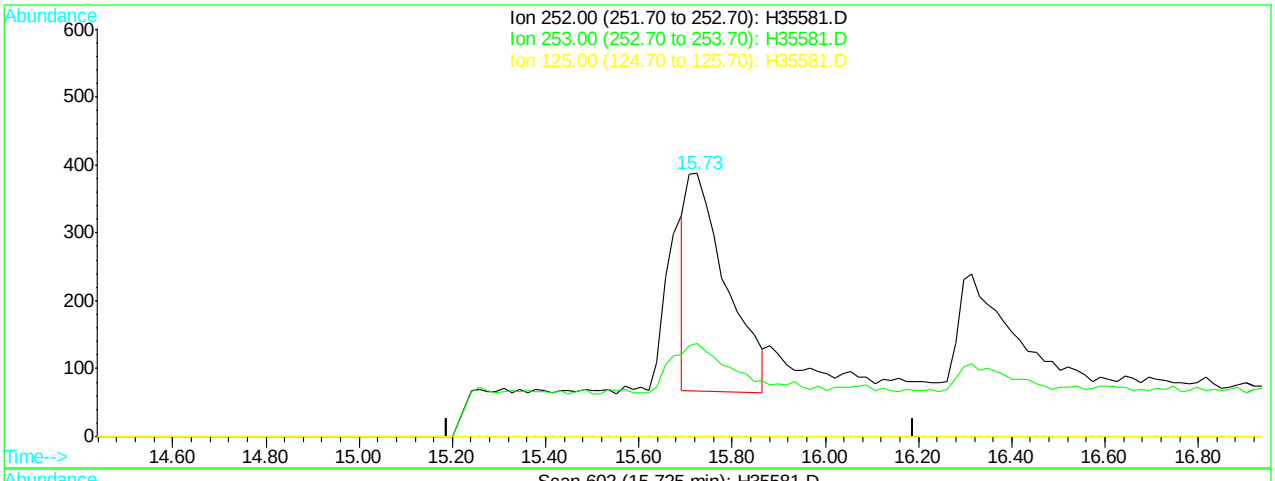
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	37.23#
125.00	0.00	0.00
0.00	0.00	0.00

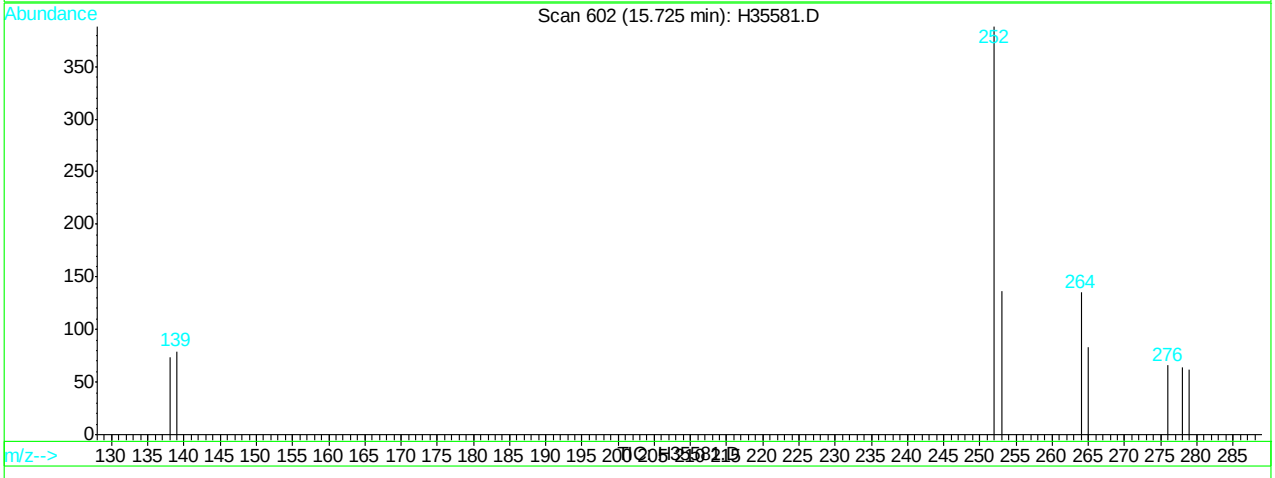
H35581.D H10239SP.M Tue Oct 27 15:20:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 1.04ppb m

response 1896

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	35.31#
125.00	0.00	0.00
0.00	0.00	0.00

H35581.D H10239SP.M Tue Oct 27 15:20:14 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	83648	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	63676	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	52898	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	48772	4.00	ppb	0.02
21) Chrysene-d12	13.94	240	8164	4.00	ppb	0.04
26) Perylene-d12	16.40	264	4584	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.42	82	331	0.08	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	1.60%#	
10) 2-Fluorobiphenyl	8.93	172	13943	0.33	ppb	0.06
Spiked Amount 5.000	Range 15 - 137		Recovery	=	6.60%#	
16) 2,4,6-Tribromophenol	10.51	330	575m	0.38	ppb	0.10
Spiked Amount 10.000	Range 10 - 123		Recovery	=	3.80%#	
23) Terphenyl-d14	12.70	244	665	0.33	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	6.60%#	

Target Compounds

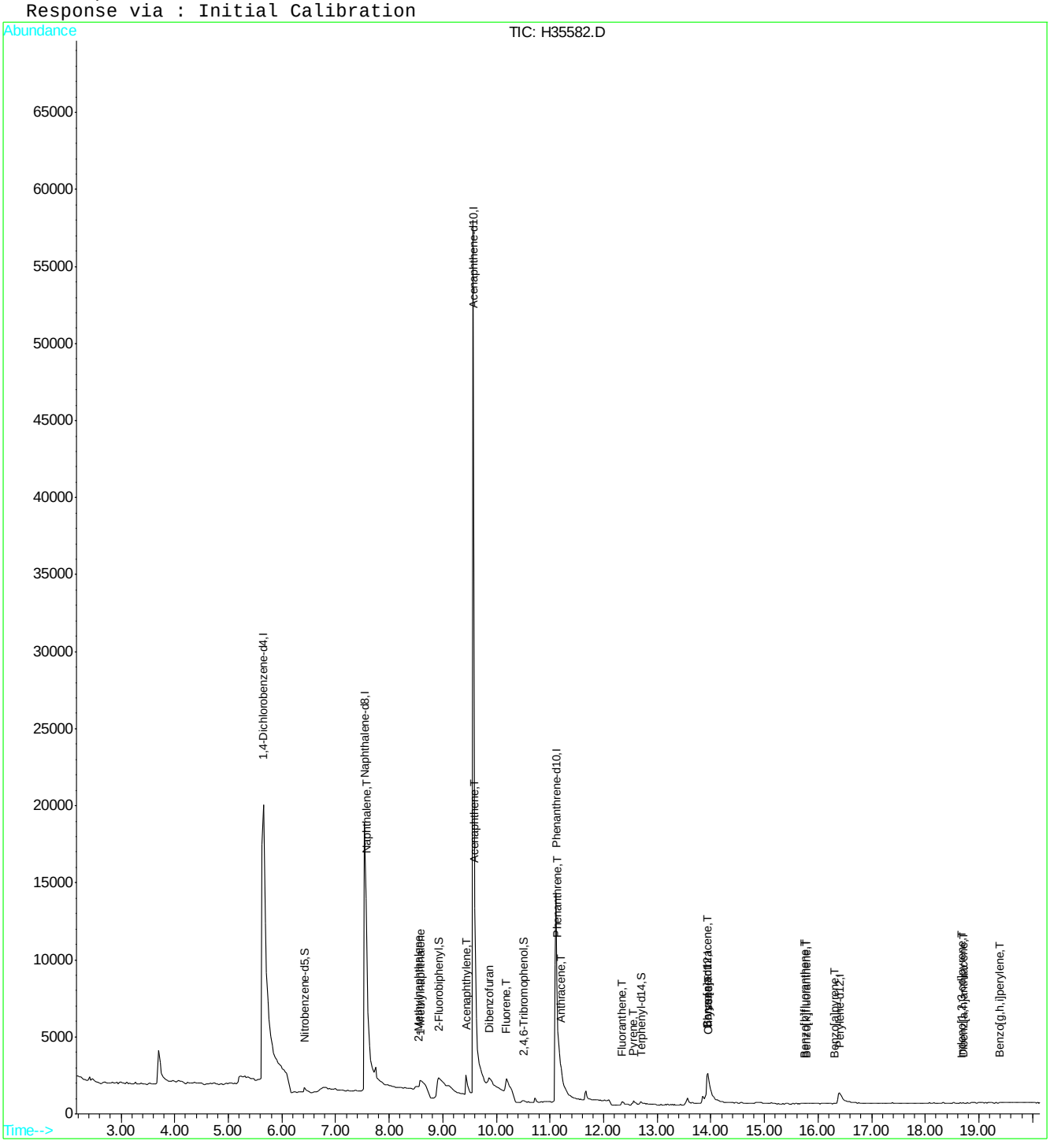
							Qvalue
6) Naphthalene	7.57	128	2499	0.08	ppb	#	96
7) 2-Methylnaphthalene	8.55	142	480m	0.03	ppb		
8) 1-Methylnaphthalene	8.58	142	1924m	0.06	ppb		
11) Acenaphthylene	9.44	152	2817	0.08	ppb	#	87
12) Acenaphthene	9.60	153	3045	0.10	ppb		90
13) Dibenzofuran	9.87	168	3057	0.08	ppb		94
14) Fluorene	10.19	166	1424	0.07	ppb		91
18) Phenanthrene	11.13	178	2033	0.09	ppb	#	85
19) Anthracene	11.21	178	2694	0.10	ppb	#	87
20) Fluoranthene	12.34	202	916	0.07	ppb	#	92
22) Pyrene	12.56	202	1325	0.10	ppb		99
24) Benzo[a]anthracene	13.94	228	166m	0.08	ppb		
25) Chrysene	13.96	228	317m	0.09	ppb		
27) Benzo[b]fluoranthene	15.74	252	169m	0.14	ppb		
28) Benzo[k]fluoranthene	15.78	252	149m	0.07	ppb		
29) Benzo[a]pyrene	16.31	252	154	0.10	ppb		87
30) Indeno[1,2,3-cd]pyrene	18.68	276	15	0.02	ppb	#	45
31) Dibenz[a,h]anthracene	18.72	278	35	0.04	ppb	#	29
32) Benzo[g,h,i]perylene	19.39	276	59	0.06	ppb	#	72

(#) = qualifier out of range (m) = manual integration
H35582.D H10239SP.M Tue Oct 27 15:20:23 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: H10239SP.RES

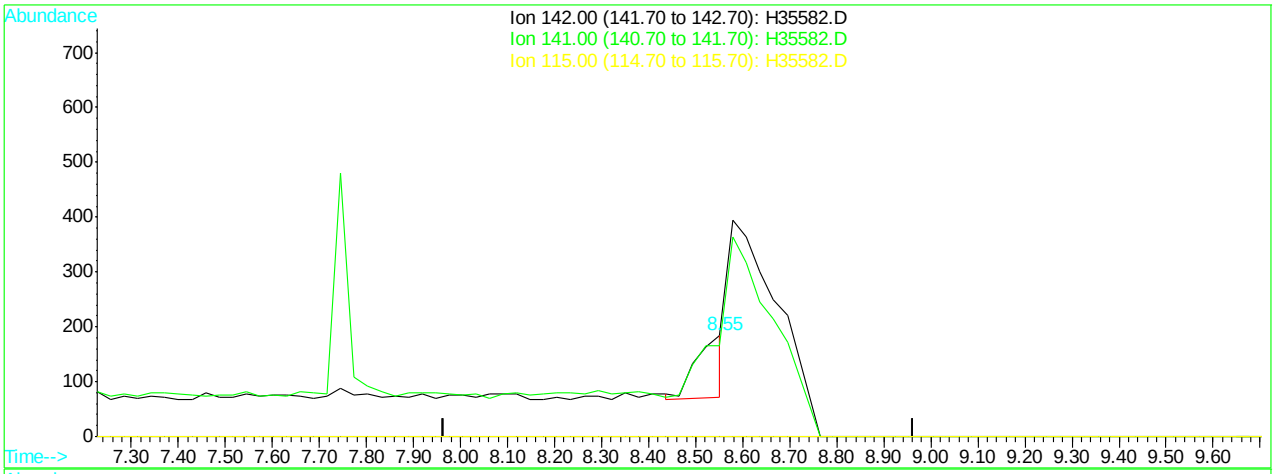
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

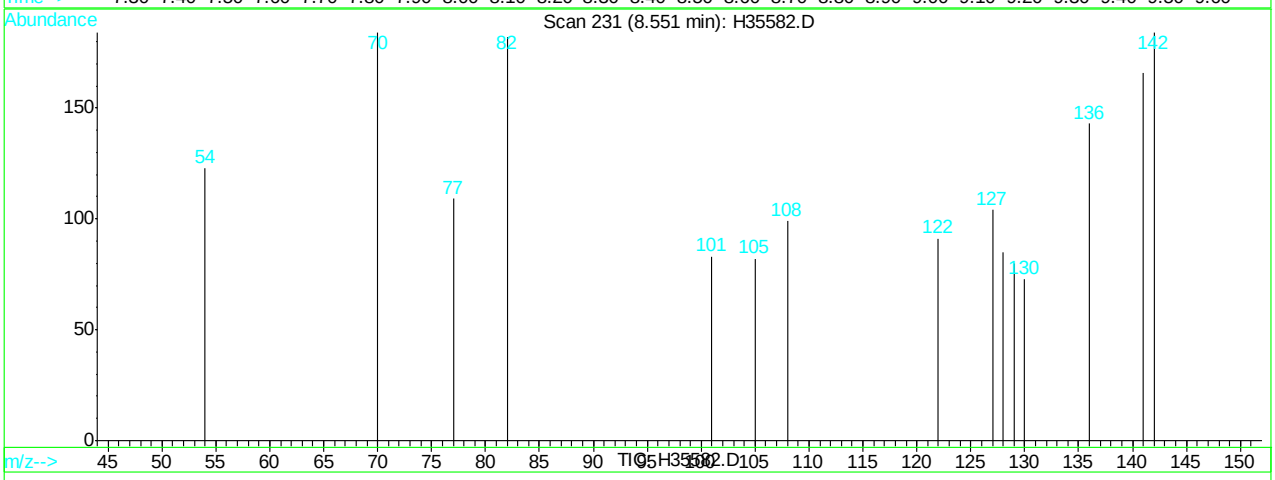


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.03ppb m

response 480

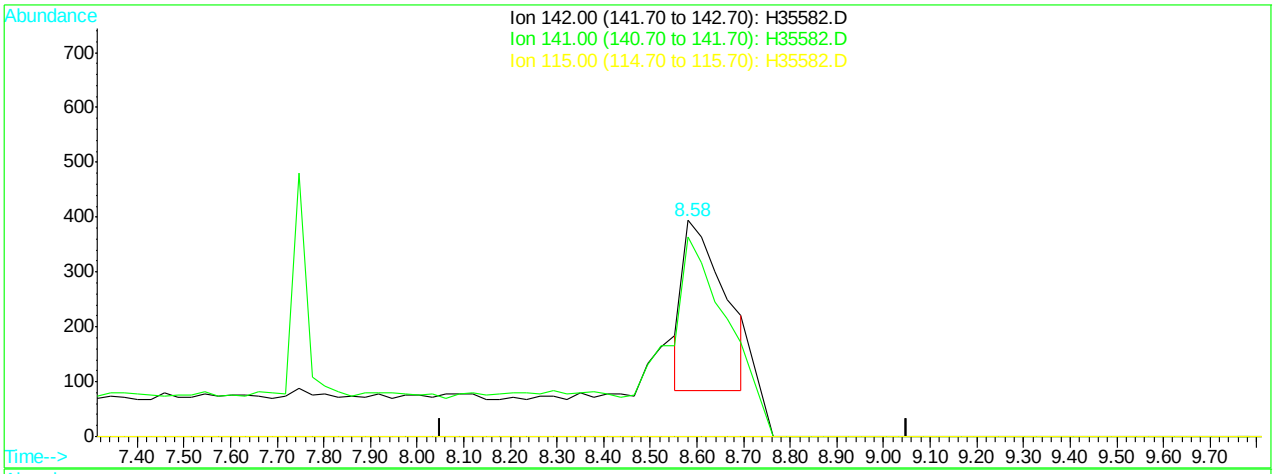
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	745.42#
115.00	0.00	0.00
0.00	0.00	0.00

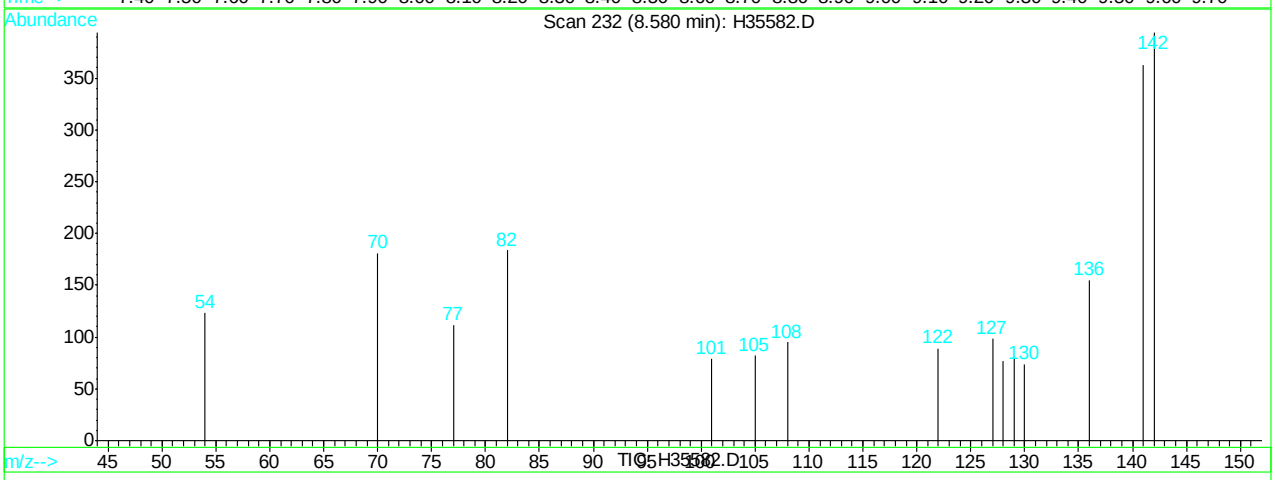
H35582.D H10239SP.M Tue Oct 27 15:20:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.06ppb m

response 1924

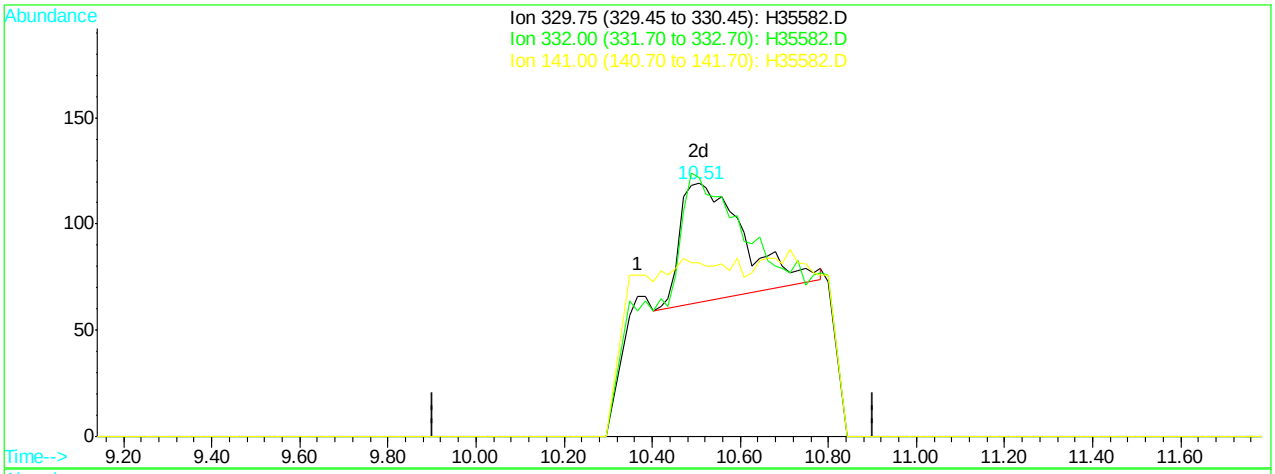
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	185.97#
115.00	0.00	0.00
0.00	0.00	0.00

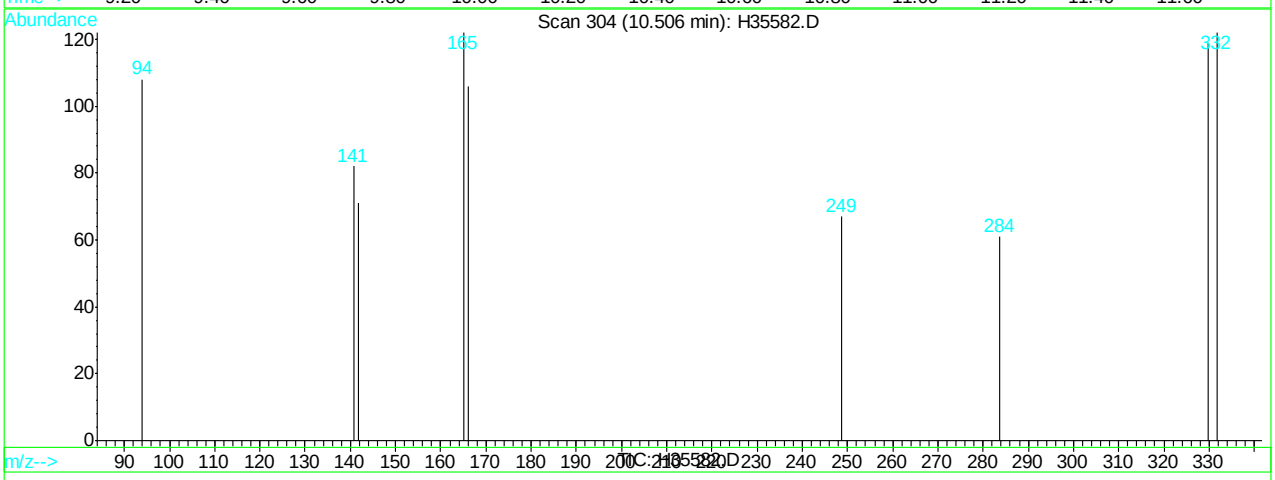
H35582.D H10239SP.M Tue Oct 27 15:20:49 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.51min 0.38ppb m

response 575

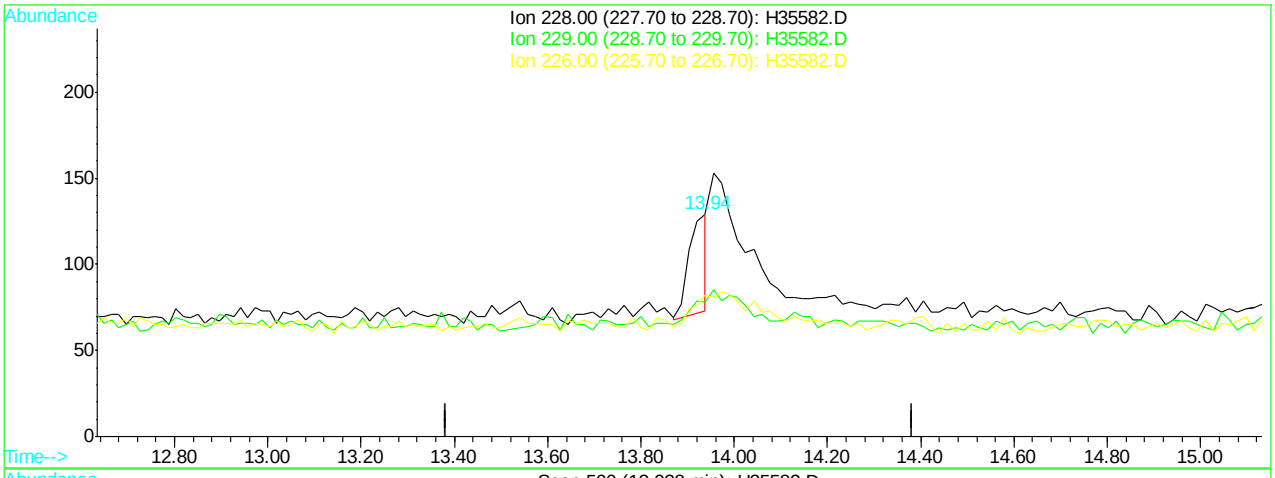
Ion	Exp%	Act%
329.75	100	100
332.00	97.50	68.87#
141.00	15.60	84.35#
0.00	0.00	0.00

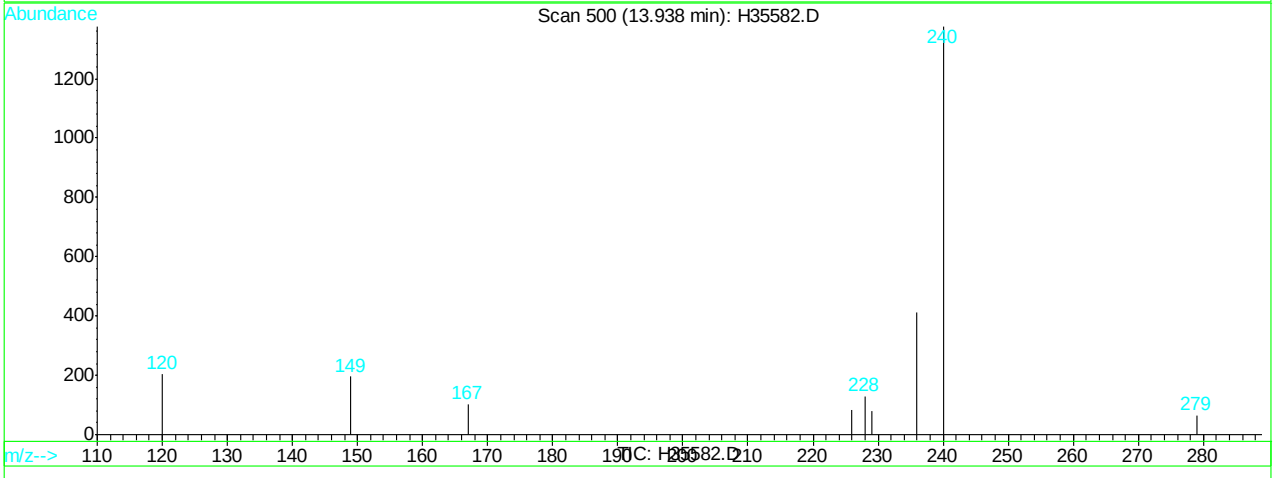
H35582.D H10239SP.M Tue Oct 27 15:20:53 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.94min 0.08ppb m

response 166

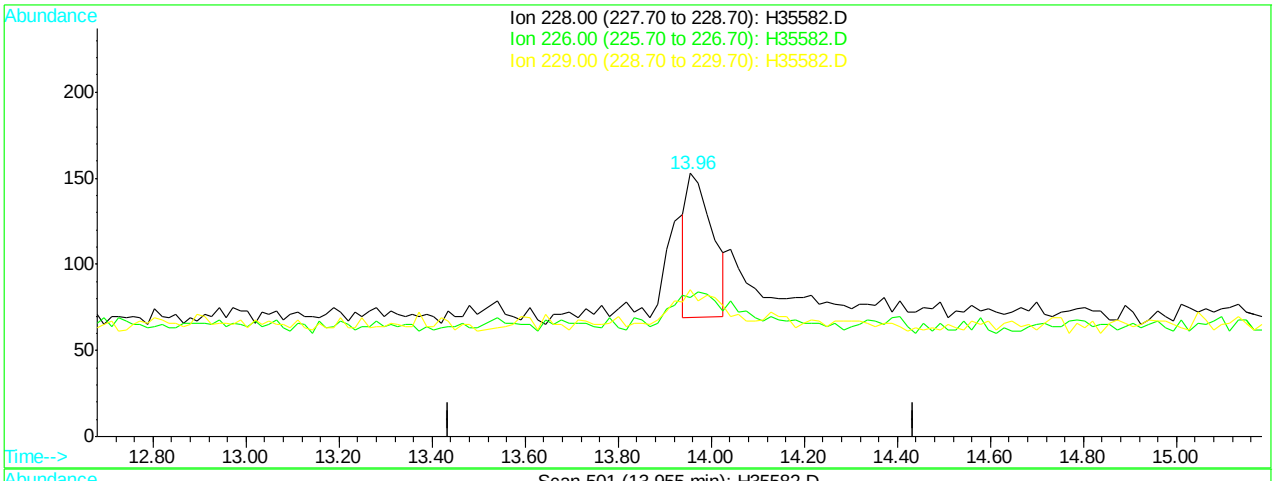
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	60.47#
226.00	27.40	63.57#
0.00	0.00	0.00

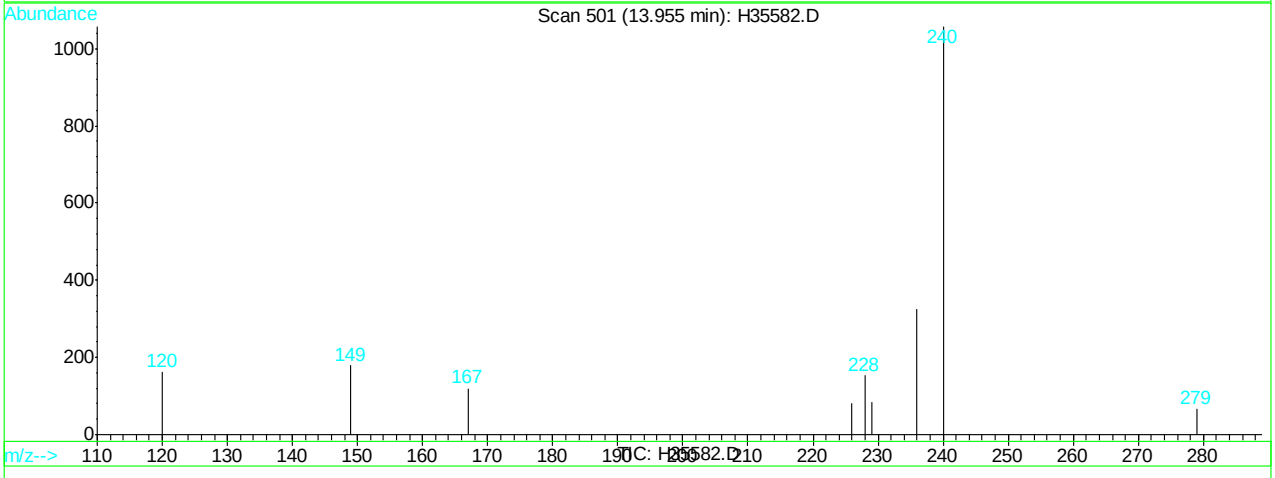
H35582.D H10239SP.M Tue Oct 27 15:20:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.96min 0.09ppb m

response 317

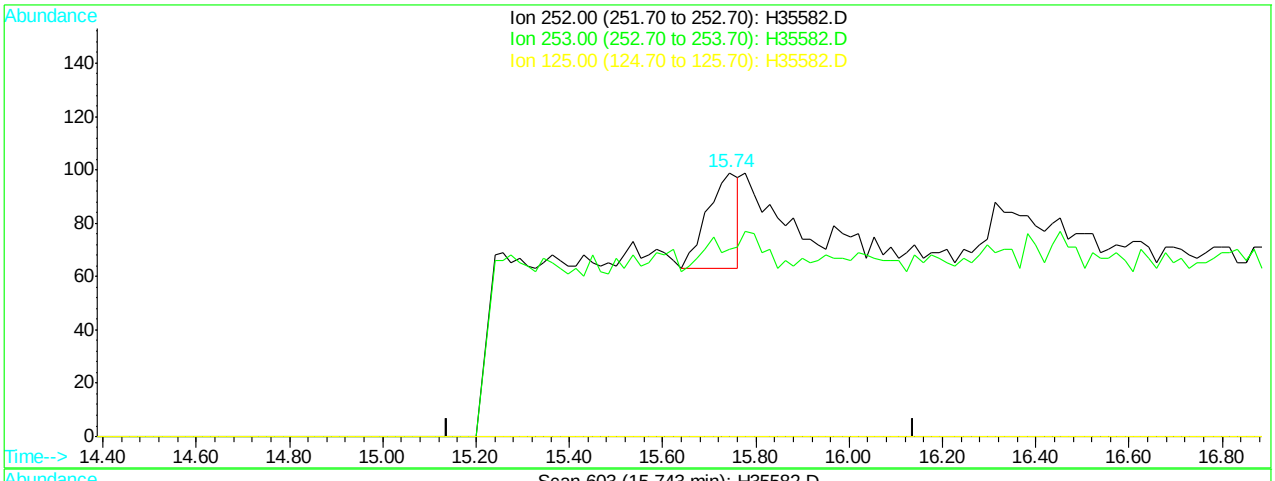
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	52.94#
229.00	20.20	55.56#
0.00	0.00	0.00

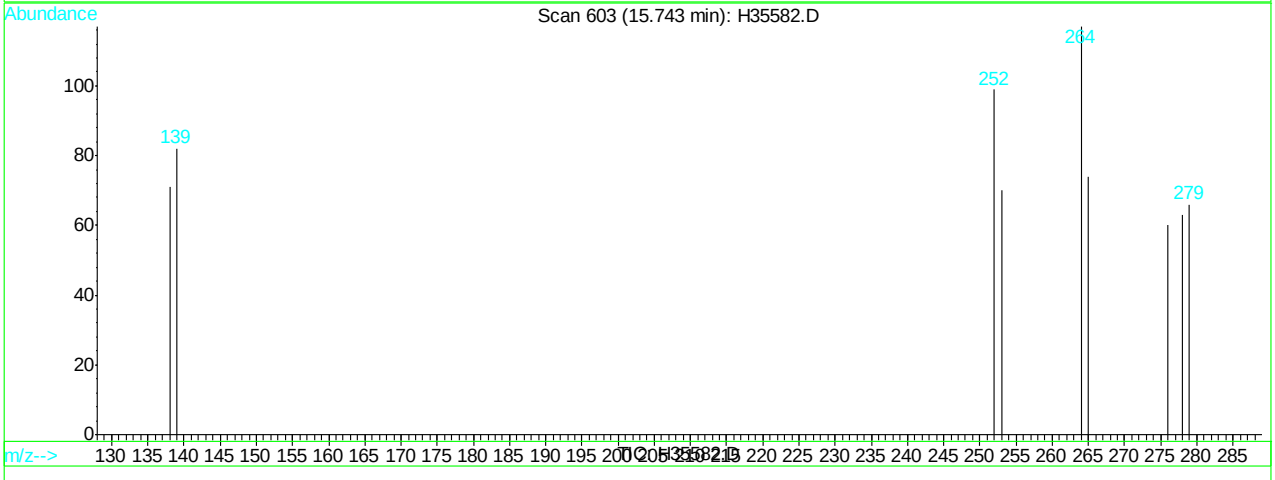
H35582.D H10239SP.M Tue Oct 27 15:21:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.74min 0.14ppb m

response 169

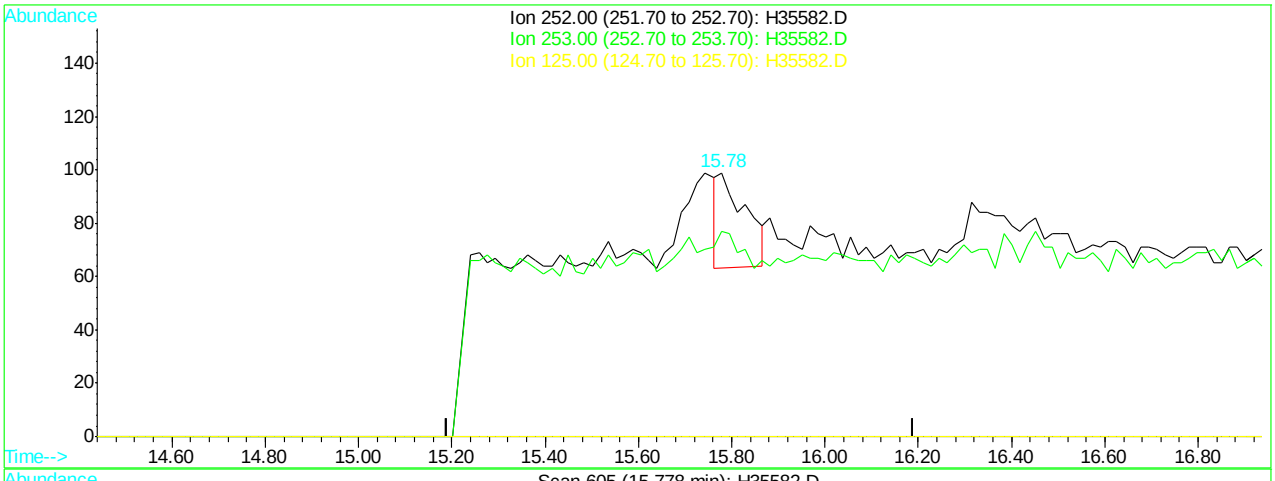
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	70.71#
125.00	0.00	0.00
0.00	0.00	0.00

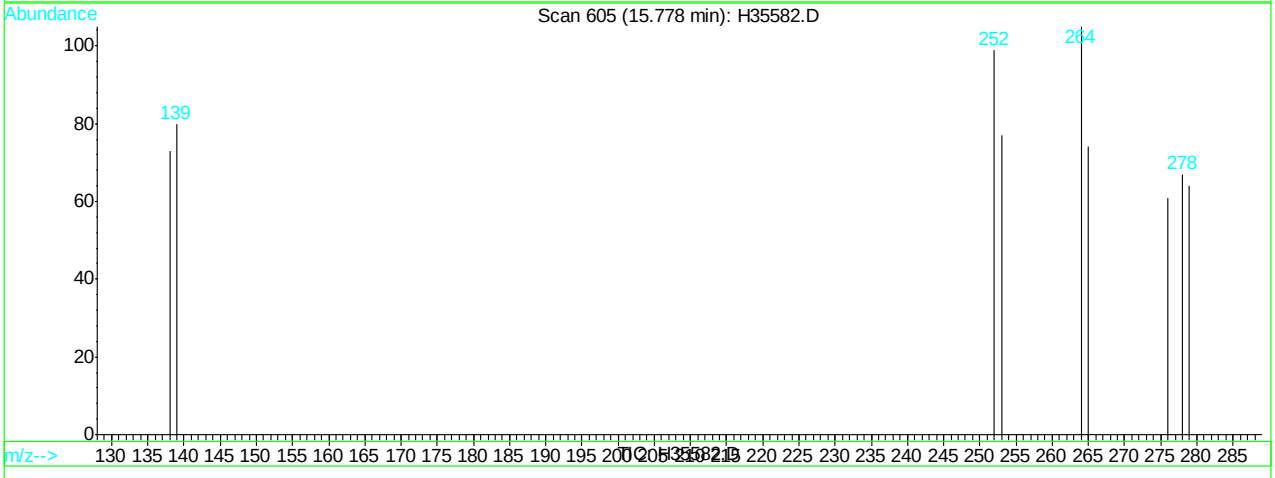
H35582.D H10239SP.M Tue Oct 27 15:21:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.78min 0.07ppb m

response 149

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	77.78#
125.00	0.00	0.00
0.00	0.00	0.00

H35582.D H10239SP.M Tue Oct 27 15:21:09 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 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	85205	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	63649	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	51651	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	51126	4.00	ppb	0.02
21) Chrysene-d12	13.94	240	7193	4.00	ppb	0.03
26) Perylene-d12	16.40	264	3706	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.42	82	708	0.16	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	3.20%#	
10) 2-Fluorobiphenyl	8.90	172	25082	0.60	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	12.00%#	
16) 2,4,6-Tribromophenol	10.47	330	1445m	0.92	ppb	0.07
Spiked Amount 10.000	Range 10 - 123		Recovery	=	9.20%#	
23) Terphenyl-d14	12.69	244	1024	0.57	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	11.40%	

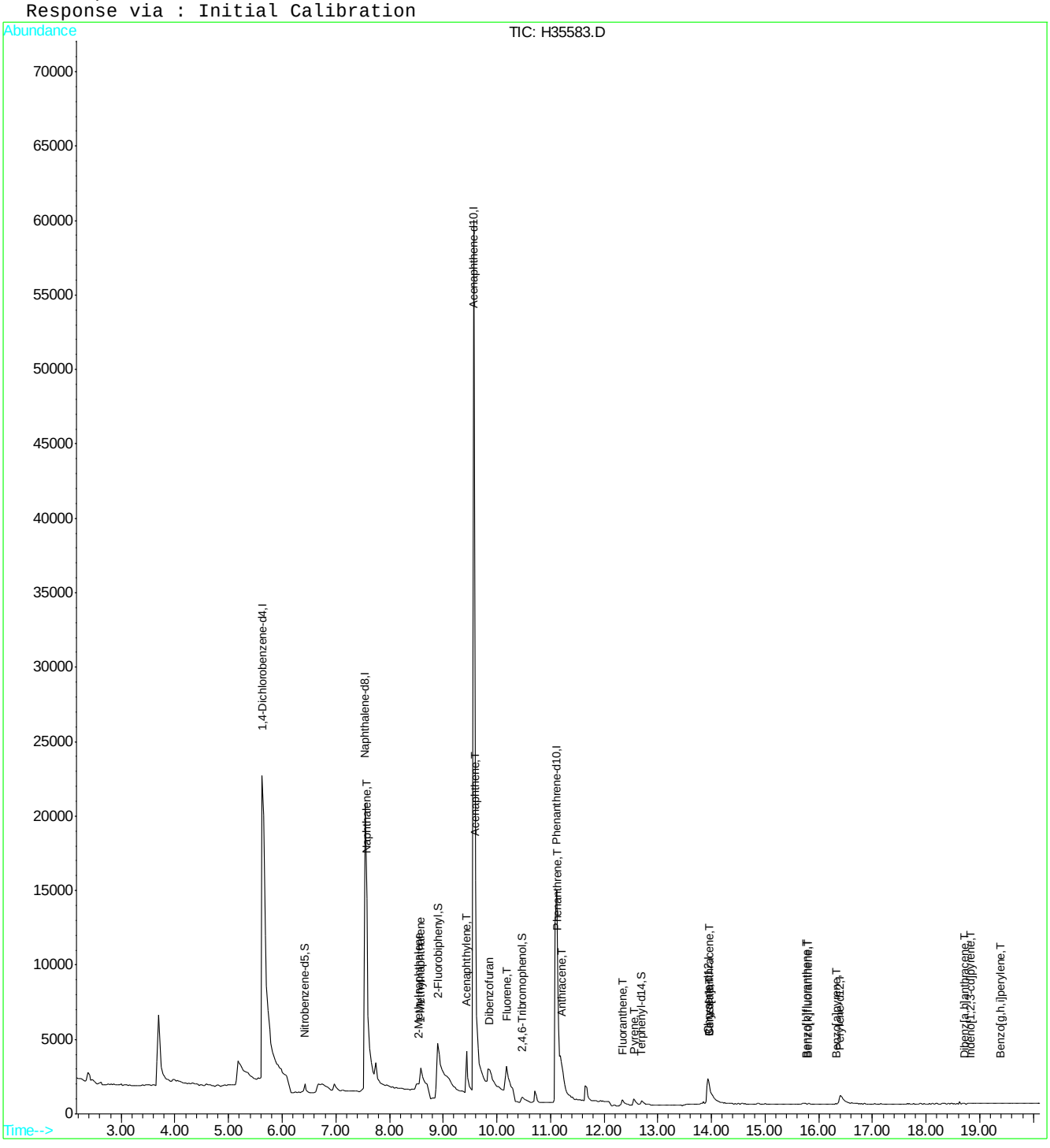
Target Compounds							Qvalue
6) Naphthalene	7.57	128	4750	0.14	ppb		95
7) 2-Methylnaphthalene	8.55	142	1205m	0.06	ppb		
8) 1-Methylnaphthalene	8.58	142	3921m	0.12	ppb		
11) Acenaphthylene	9.44	152	5491	0.16	ppb		92
12) Acenaphthene	9.60	153	5259	0.17	ppb		89
13) Dibenzofuran	9.87	168	5741	0.15	ppb	#	92
14) Fluorene	10.19	166	2903	0.14	ppb		89
18) Phenanthrene	11.13	178	3950m	0.16	ppb		
19) Anthracene	11.21	178	5407	0.19	ppb		92
20) Fluoranthene	12.34	202	1466	0.11	ppb		98
22) Pyrene	12.56	202	1787	0.15	ppb		100
24) Benzo[a]anthracene	13.95	228	287m	0.15	ppb		
25) Chrysene	13.95	228	561m	0.18	ppb		
27) Benzo[b]fluoranthene	15.76	252	207m	0.21	ppb		
28) Benzo[k]fluoranthene	15.79	252	123m	0.08	ppb		
29) Benzo[a]pyrene	16.33	252	77	0.06	ppb	#	56
30) Indeno[1,2,3-cd]pyrene	18.82	276	48	0.06	ppb	#	45
31) Dibenz[a,h]anthracene	18.72	278	18	0.03	ppb	#	1
32) Benzo[g,h,i]perylene	19.39	276	43	0.06	ppb	#	1

(#) = qualifier out of range (m) = manual integration
H35583.D H10239SP.M Tue Oct 27 15:21:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: H10239SP.RES

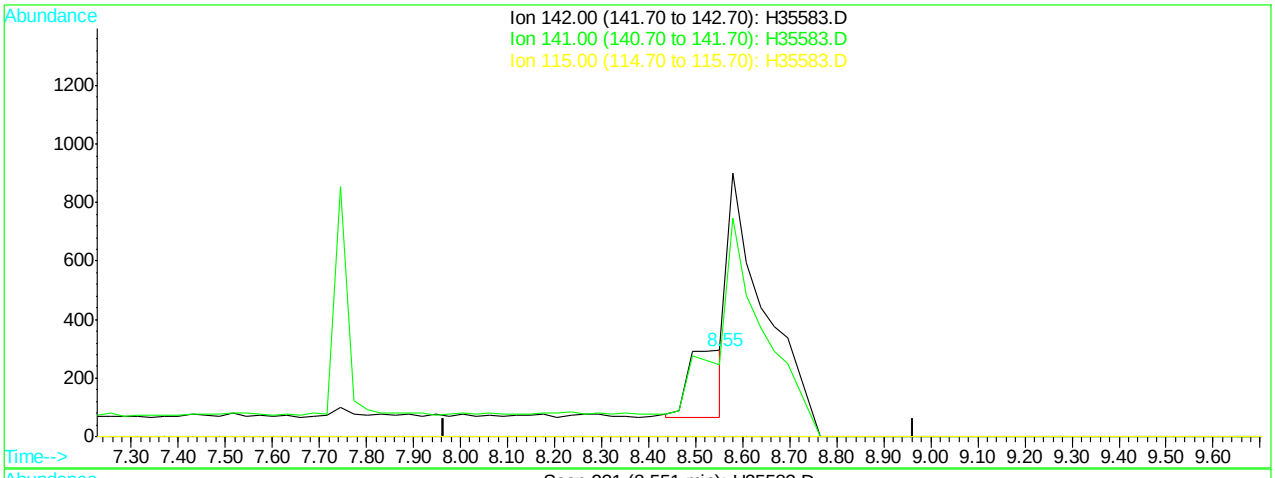
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

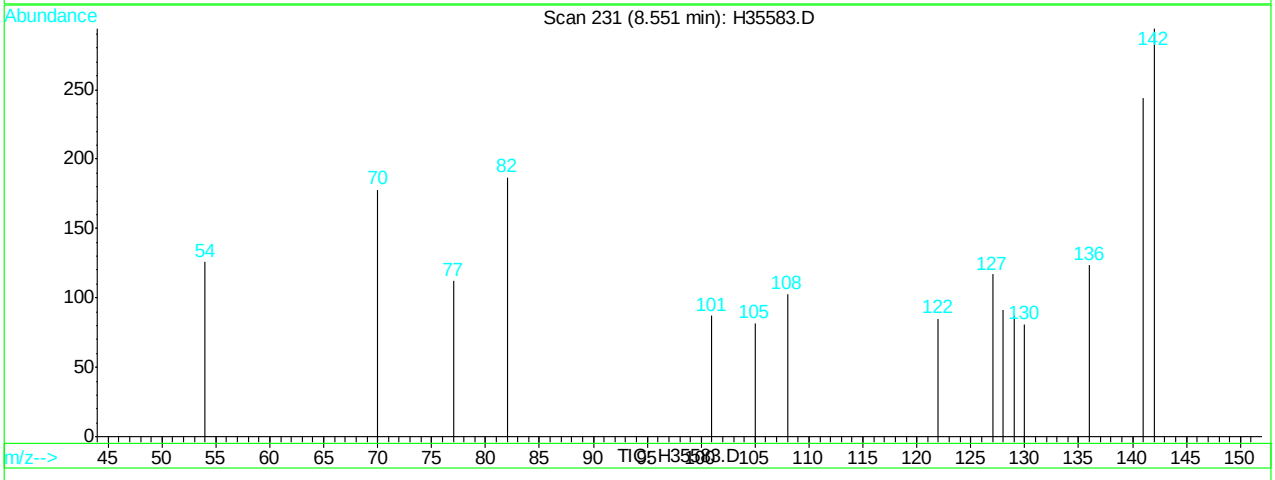


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.06ppb m

response 1205

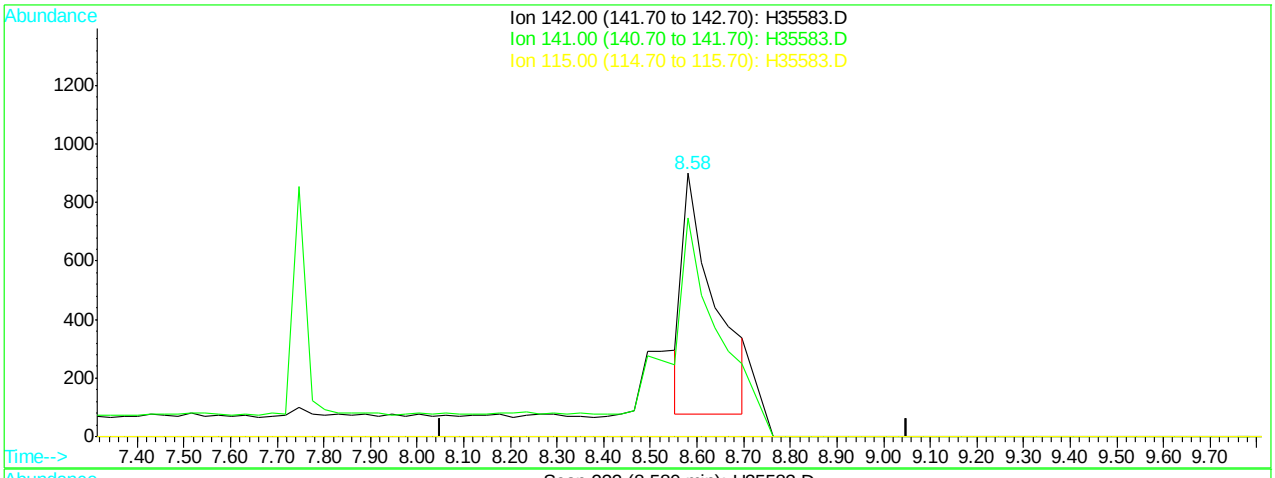
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	483.07#
115.00	0.00	0.00
0.00	0.00	0.00

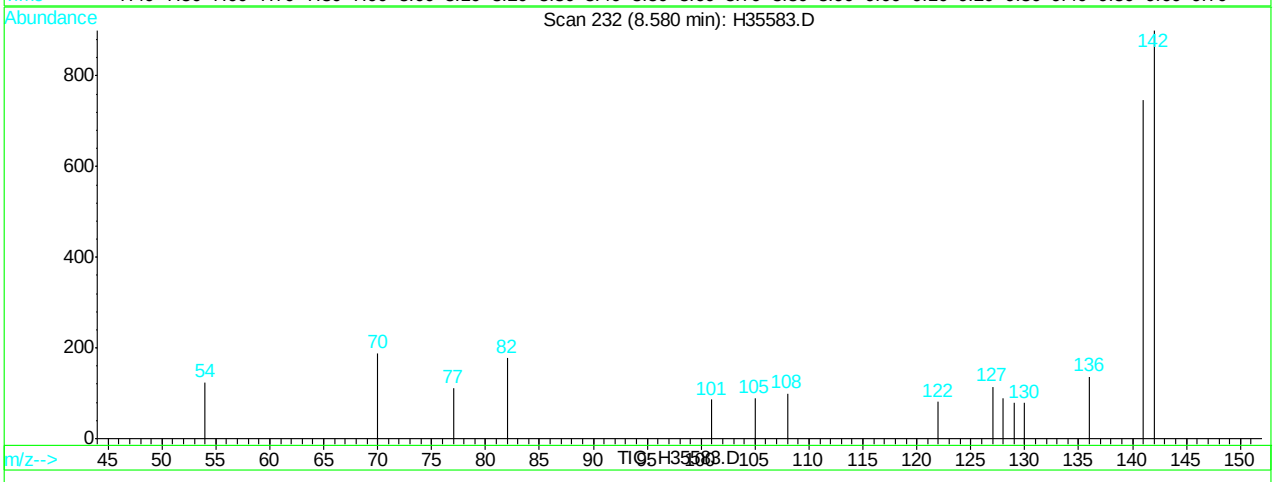
H35583.D H10239SP.M Tue Oct 27 15:21:40 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.12ppb m

response 3921

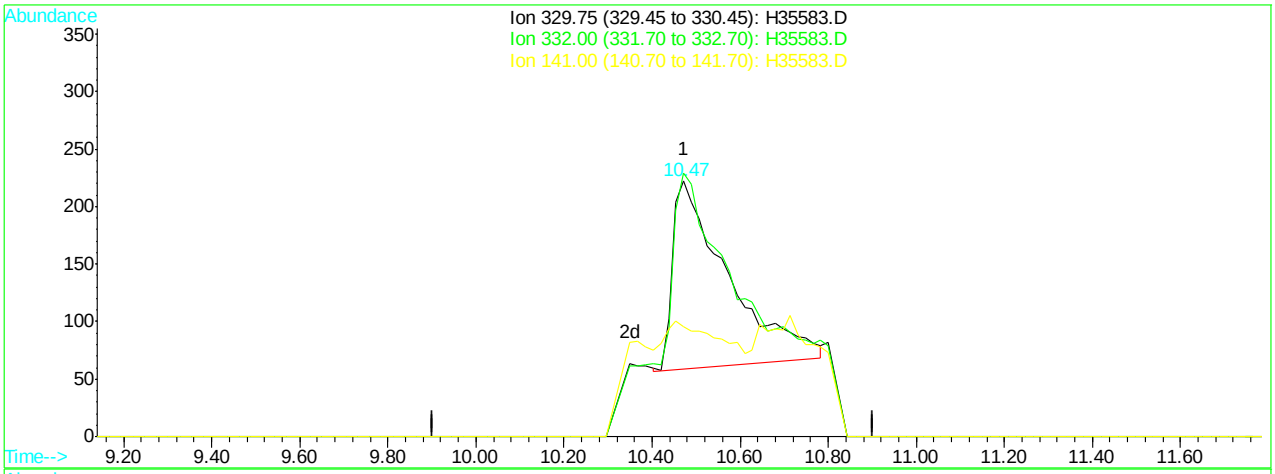
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	148.46
115.00	0.00	0.00
0.00	0.00	0.00

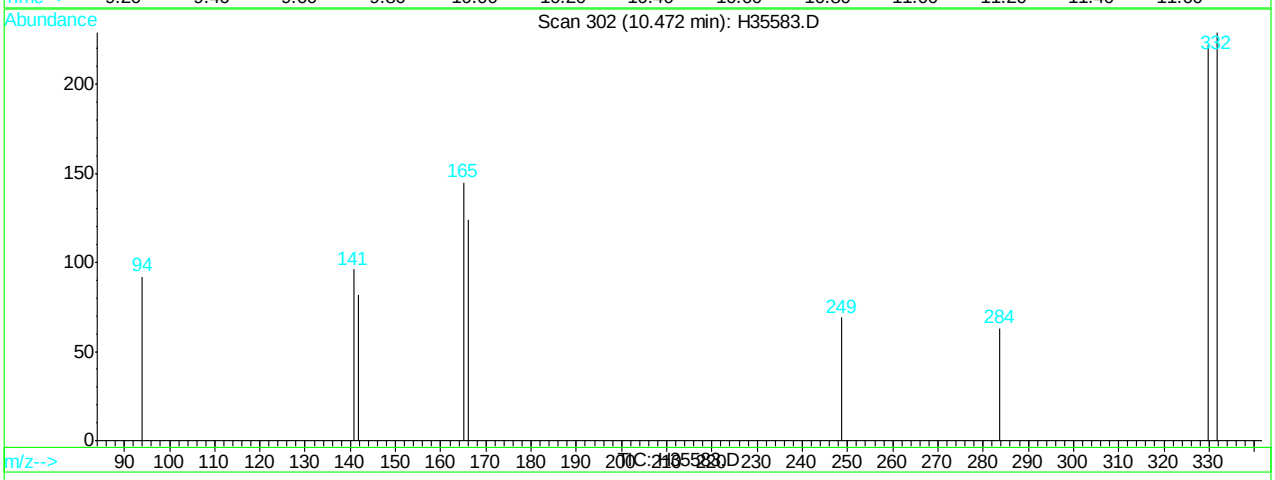
H35583.D H10239SP.M Tue Oct 27 15:21:43 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.47min 0.92ppb m

response 1445

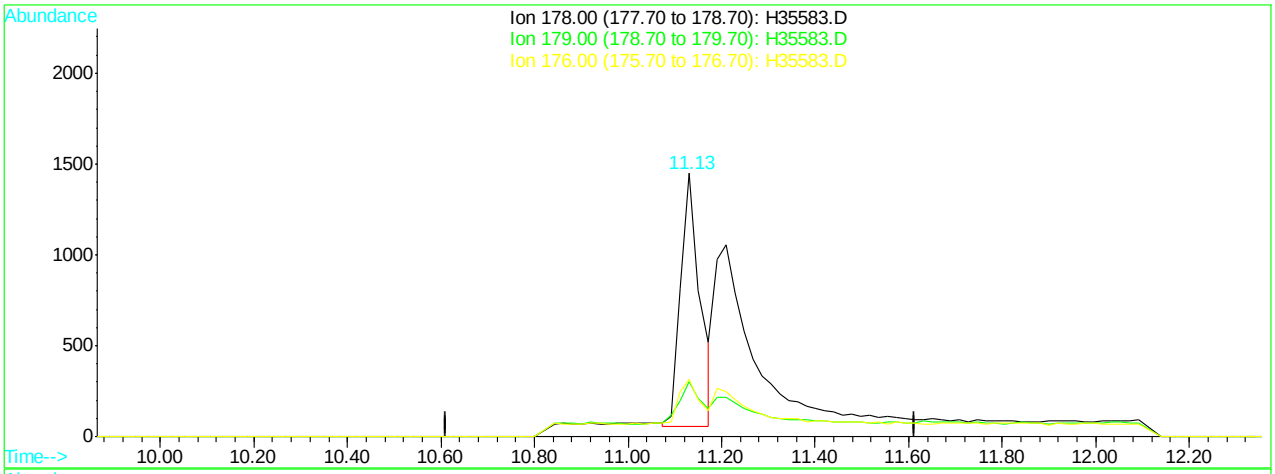
Ion	Exp%	Act%
329.75	100	100
332.00	97.50	256.61#
141.00	15.60	75.50#
0.00	0.00	0.00

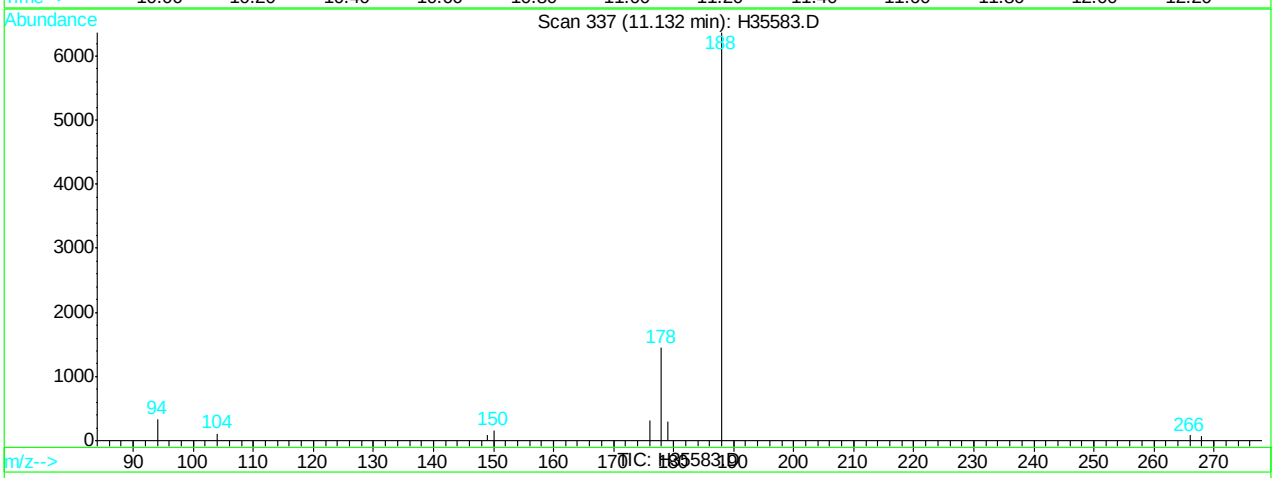
H35583.D H10239SP.M Tue Oct 27 15:21:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.13min 0.16ppb m

response 3950

Ion	Exp%	Act%
178.00	100	100
179.00	11.60	20.98#
176.00	24.90	21.88
0.00	0.00	0.00

H35583.D H10239SP.M Tue Oct 27 15:21:54 2009

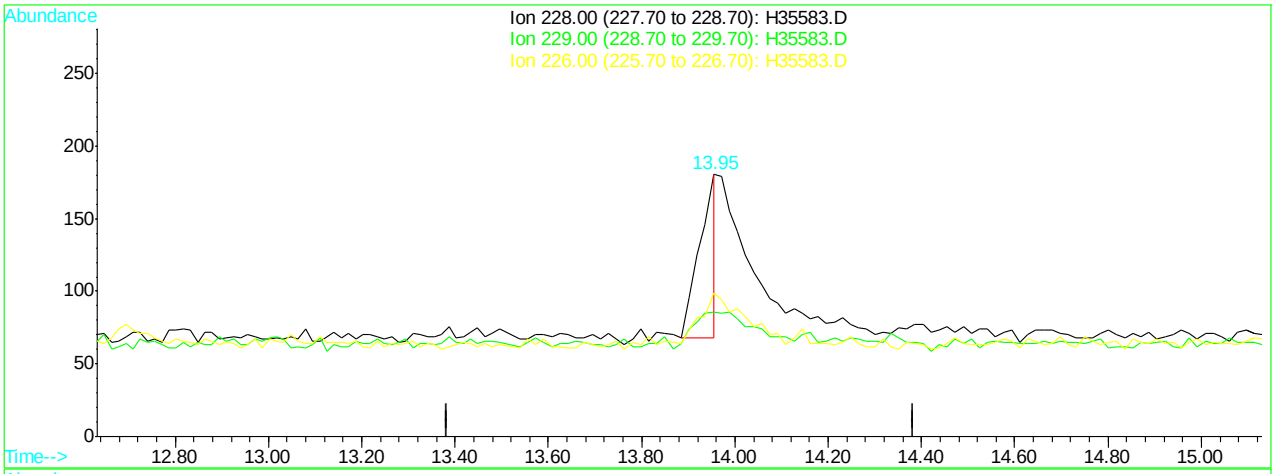
8.6.18.4

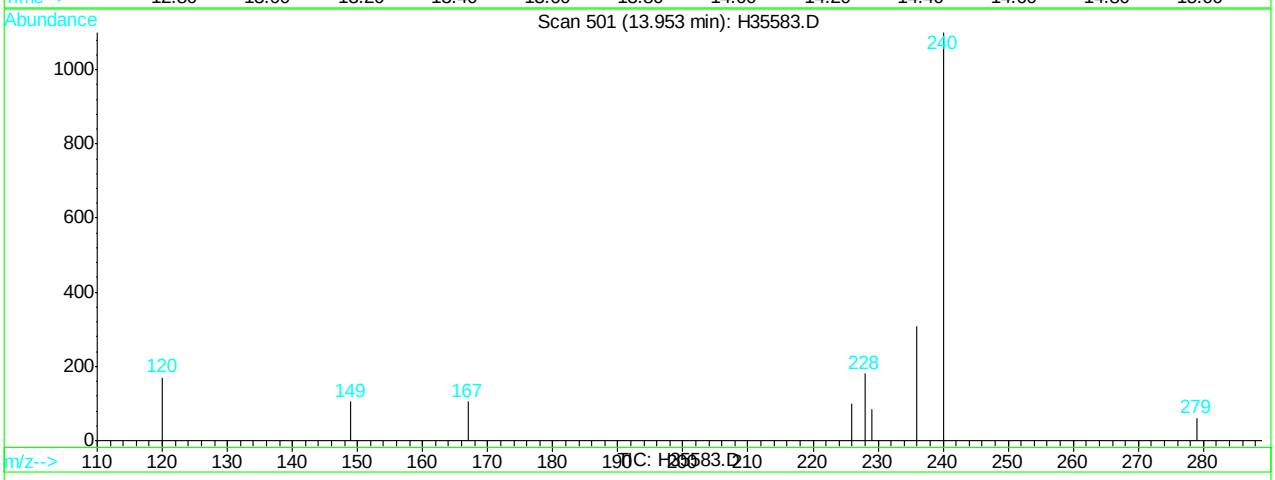
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.95min 0.15ppb m

response 287

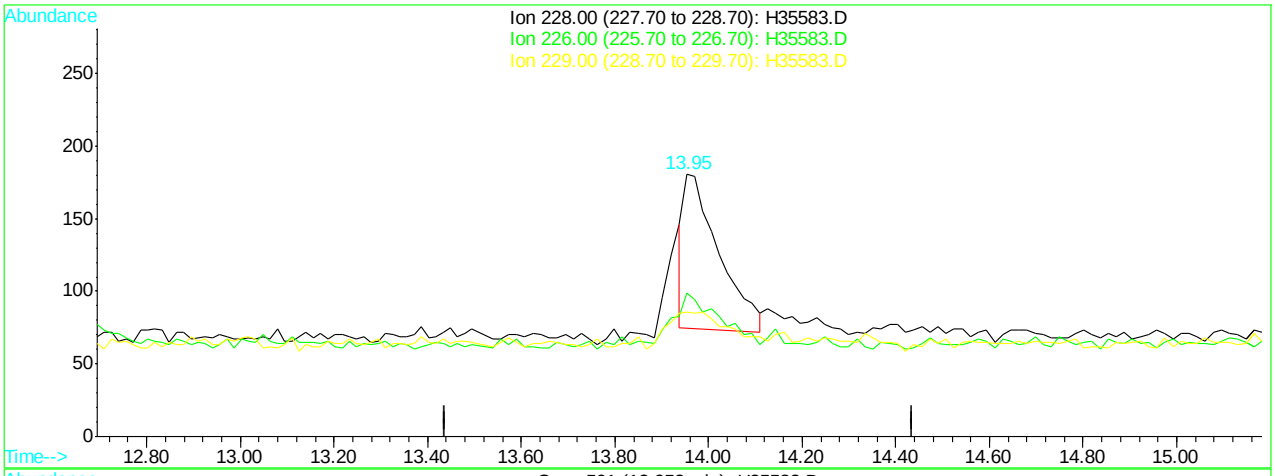
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	47.51#
226.00	27.40	54.70#
0.00	0.00	0.00

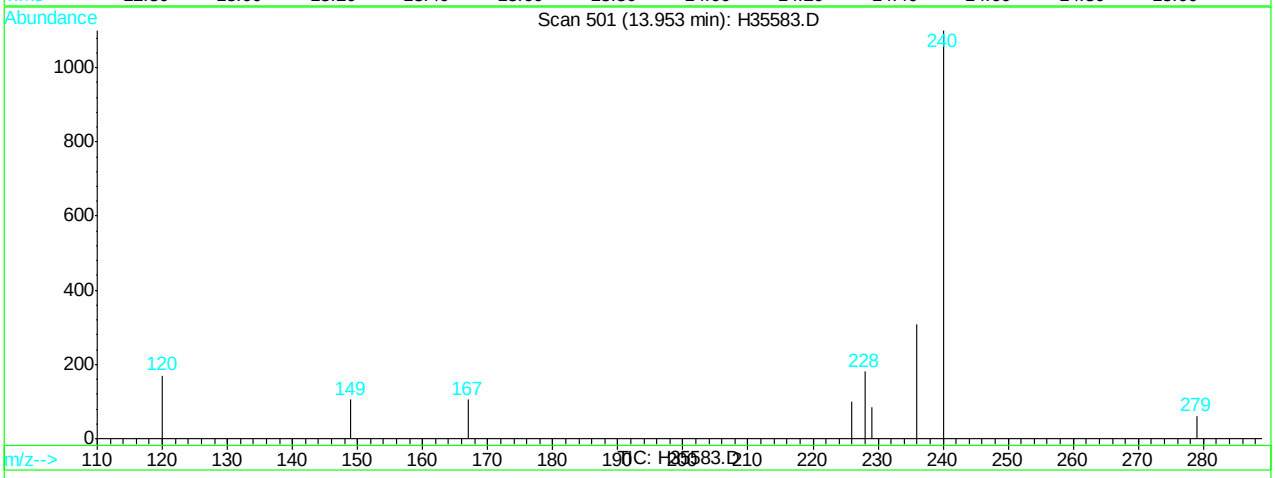
H35583.D H10239SP.M Tue Oct 27 15:21:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.18ppb m

response 561

Ion	Exp%	Act%
228.00	100	100
226.00	30.10	54.70#
229.00	20.20	47.51#
0.00	0.00	0.00

H35583.D H10239SP.M Tue Oct 27 15:22:03 2009

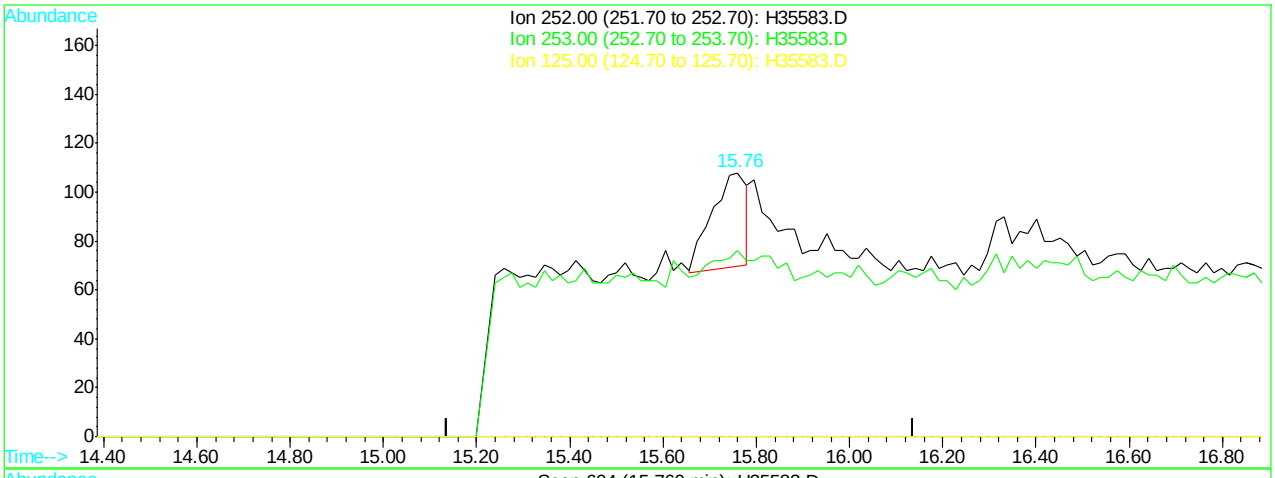
8.6.18.6

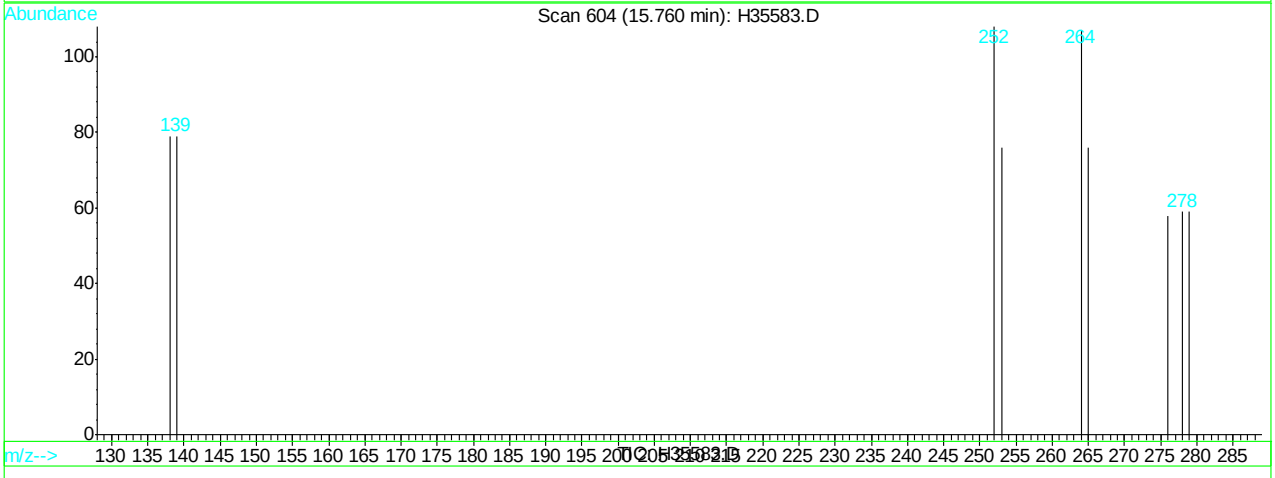
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.76min 0.21ppb m

response 207

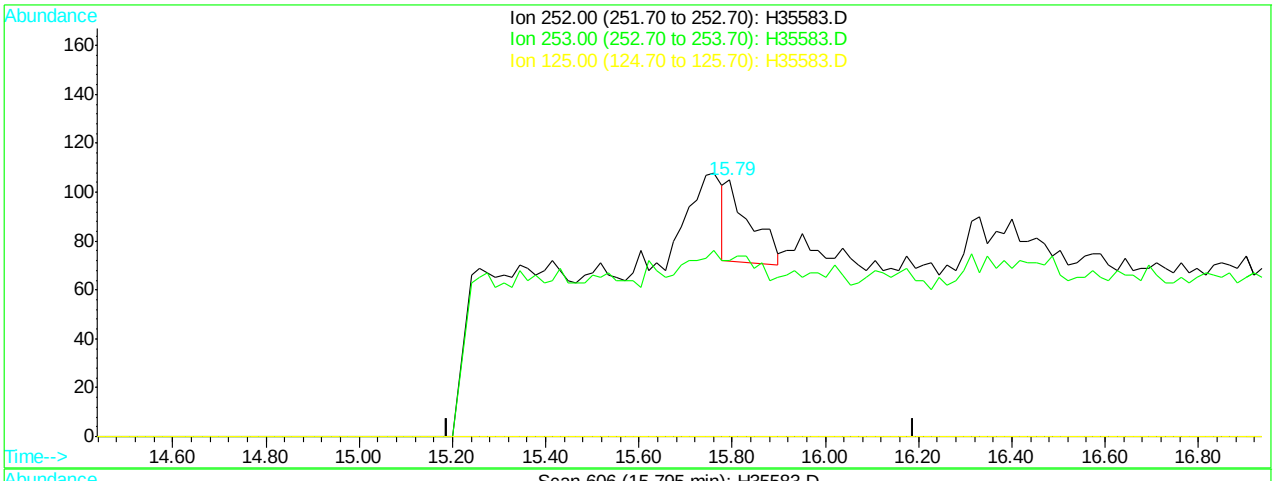
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	70.37#
125.00	0.00	0.00
0.00	0.00	0.00

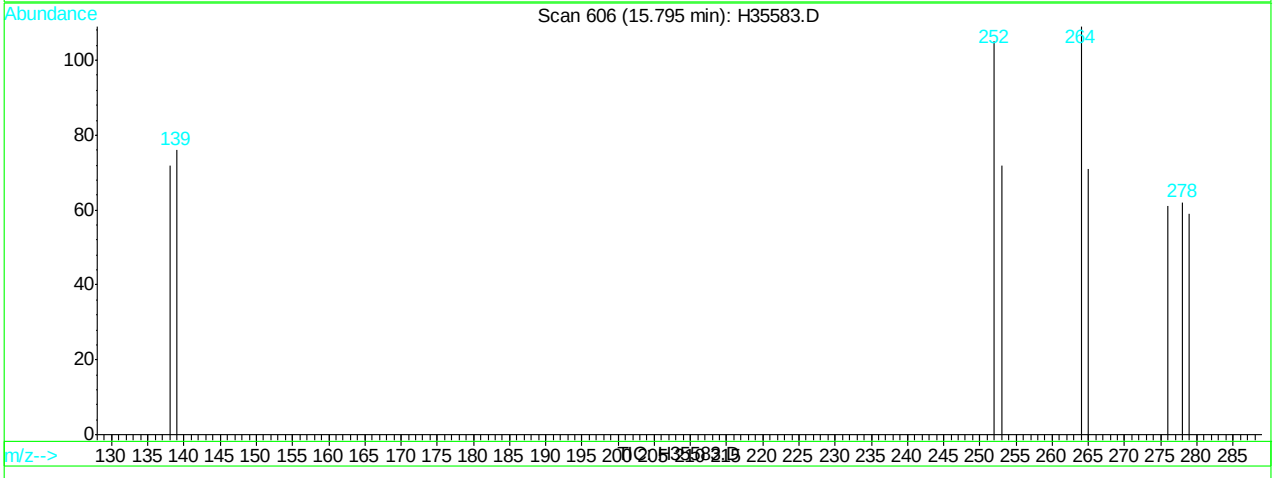
H35583.D H10239SP.M Tue Oct 27 15:22:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.79min 0.08ppb m

response 123

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	68.57#
125.00	0.00	0.00
0.00	0.00	0.00

H35583.D H10239SP.M Tue Oct 27 15:22:12 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 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	102874	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	94728	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	73734	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	85223	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10579	4.00	ppb	0.00
26) Perylene-d12	16.38	264	3626	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	83261	12.98	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 259.60%#			
10) 2-Fluorobiphenyl	8.87	172	986966	16.59	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 331.80%#			
16) 2,4,6-Tribromophenol	10.40	330	179757	68.76	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 687.60%#			
23) Terphenyl-d14	12.66	244	85395	32.41	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 648.20%#			

Target Compounds

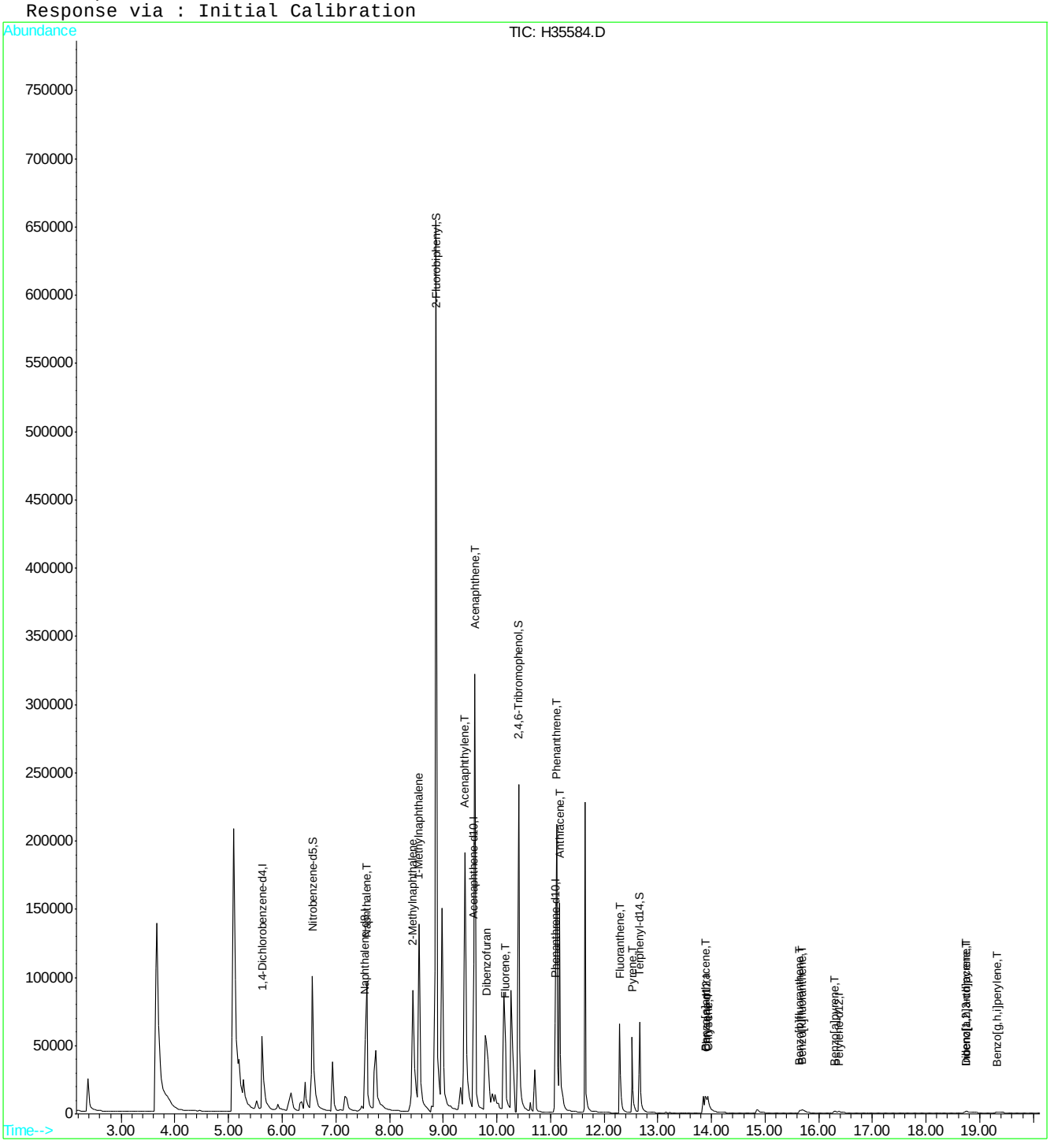
							Qvalue
6) Naphthalene	7.57	128	131910	2.67	ppb	#	90
7) 2-Methylnaphthalene	8.44	142	150782	5.31	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	198968	3.99	ppb	#	53
11) Acenaphthylene	9.41	152	254664m	5.23	ppb		
12) Acenaphthene	9.59	153	211244	4.78	ppb	#	74
13) Dibenzofuran	9.81	168	121389	2.27	ppb		87
14) Fluorene	10.16	166	83315	2.90	ppb		94
18) Phenanthrene	11.11	178	208638	5.20	ppb	#	87
19) Anthracene	11.17	178	202396	4.37	ppb	#	86
20) Fluoranthene	12.29	202	105299	4.71	ppb		97
22) Pyrene	12.52	202	100235m	5.74	ppb		
24) Benzo[a]anthracene	13.88	228	11718m	4.09	ppb		
25) Chrysene	13.94	228	26802m	5.69	ppb		
27) Benzo[b]fluoranthene	15.64	252	5387m	5.58	ppb		
28) Benzo[k]fluoranthene	15.69	252	11016m	6.96	ppb		
29) Benzo[a]pyrene	16.30	252	6594	5.48	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.75	276	4576	5.89	ppb		94
31) Dibenz[a,h]anthracene	18.75	278	3080	4.92	ppb		96
32) Benzo[g,h,i]perylene	19.32	276	3995	5.38	ppb		90

(#) = qualifier out of range (m) = manual integration
H35584.D H10239SP.M Tue Oct 27 15:22:23 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: H10239SP.RES

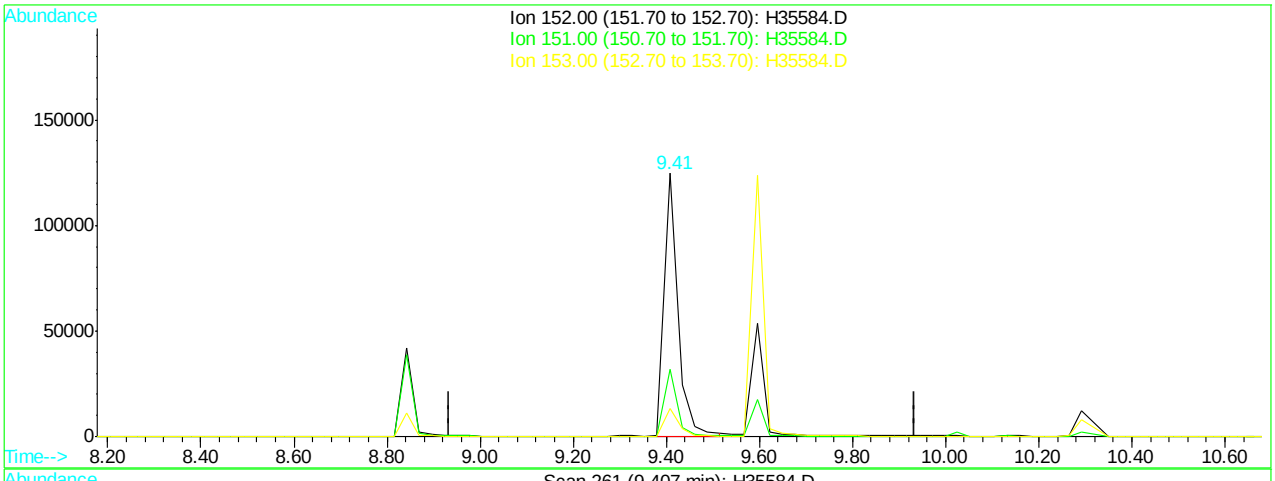
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

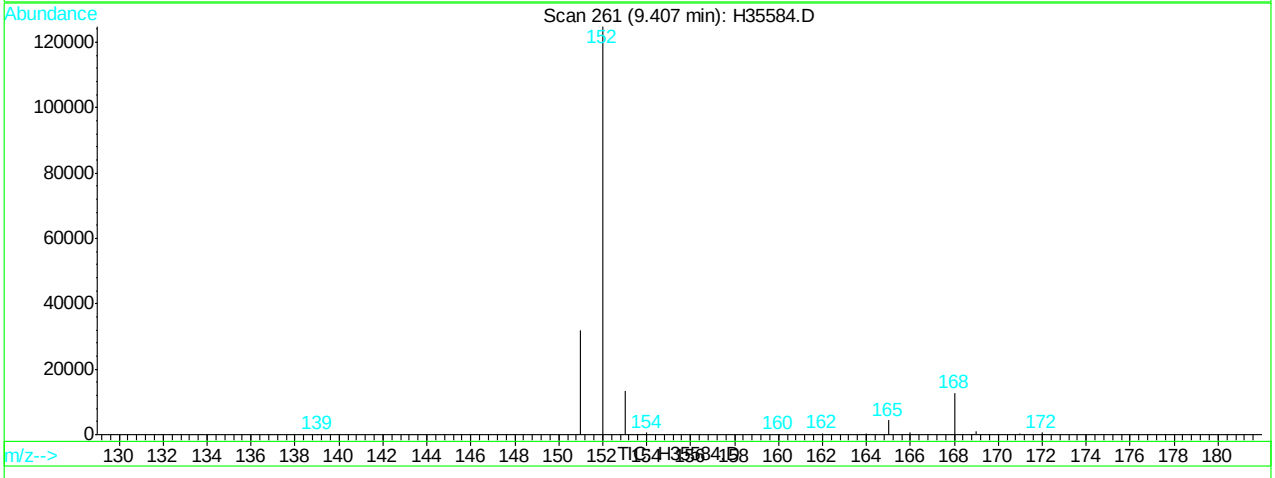


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(11) Acenaphthylene (T)

9.41min 5.23ppb m

response 254664

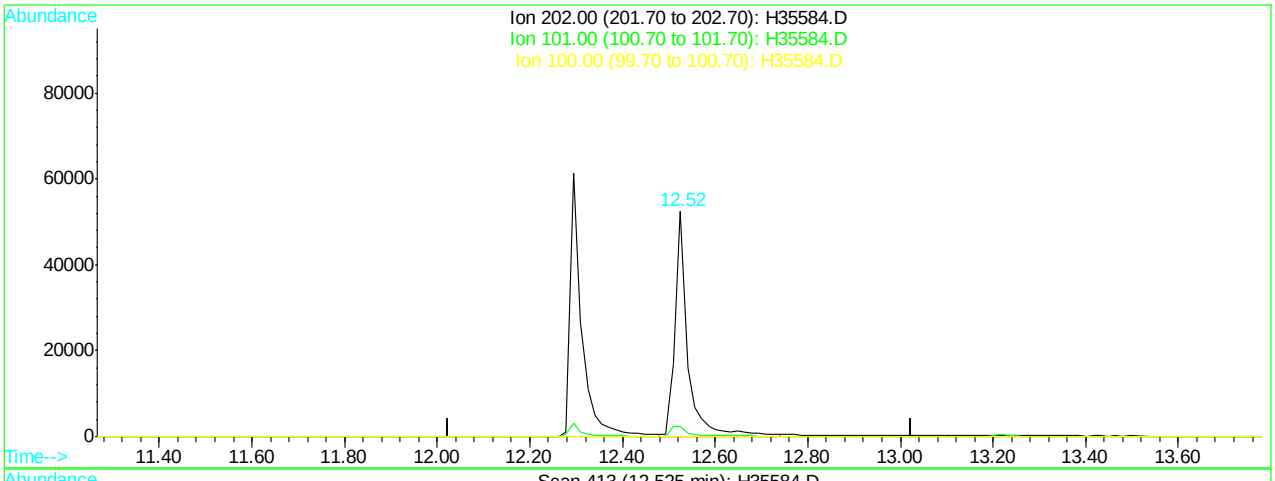
Ion	Exp%	Act%
152.00	100	100
151.00	18.20	25.61#
153.00	15.60	10.85#
0.00	0.00	0.00

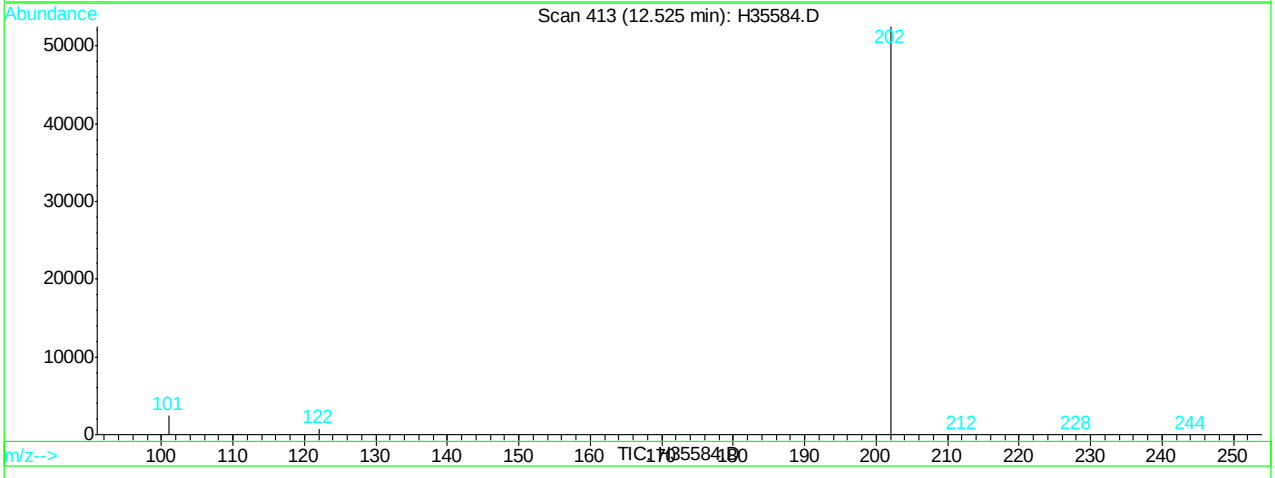
H35584.D H10239SP.M Tue Oct 27 15:23:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.52min 5.74ppb m

response 100235

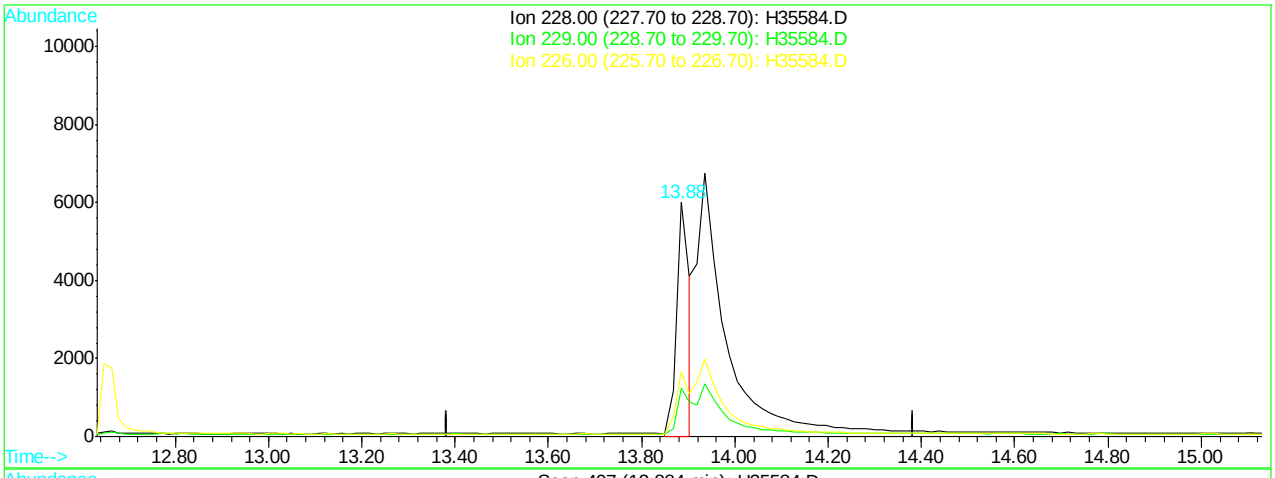
Ion	Exp%	Act%
202.00	100	100
101.00	6.80	4.74#
100.00	0.00	0.00
0.00	0.00	0.00

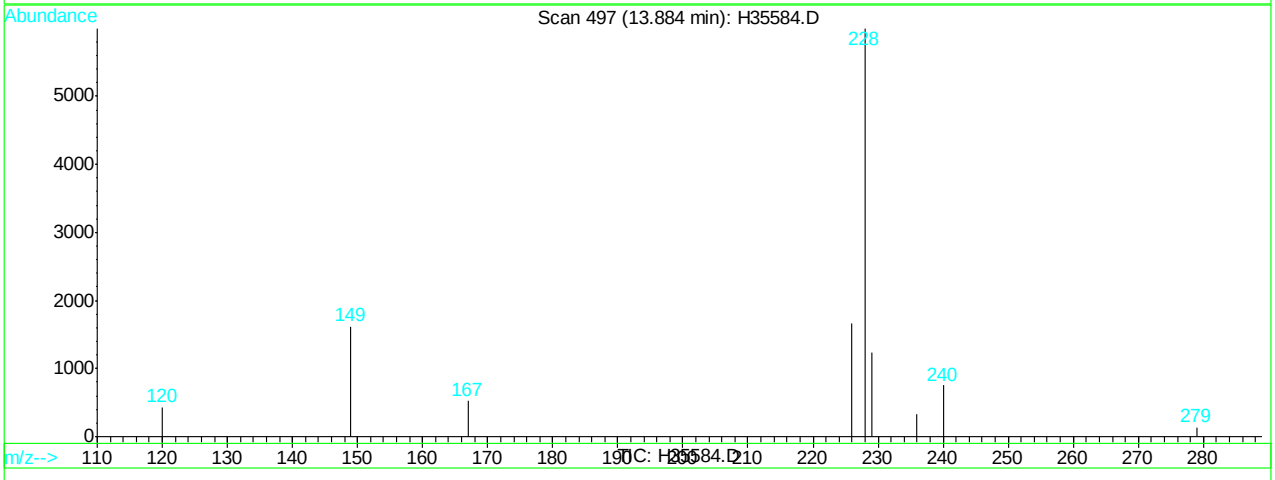
H35584.D H10239SP.M Tue Oct 27 15:23:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 4.09ppb m

response 11718

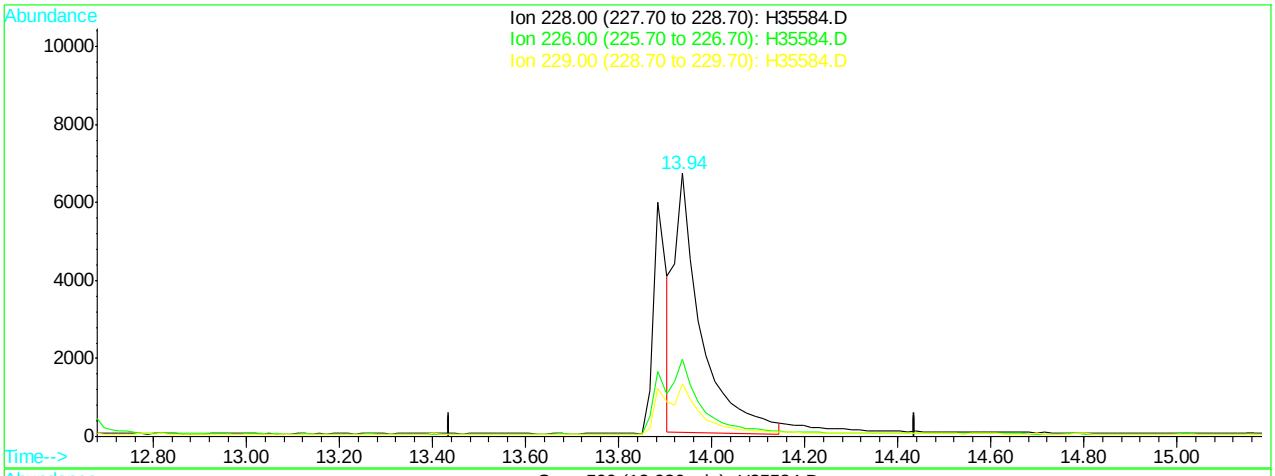
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	20.60
226.00	27.40	27.64
0.00	0.00	0.00

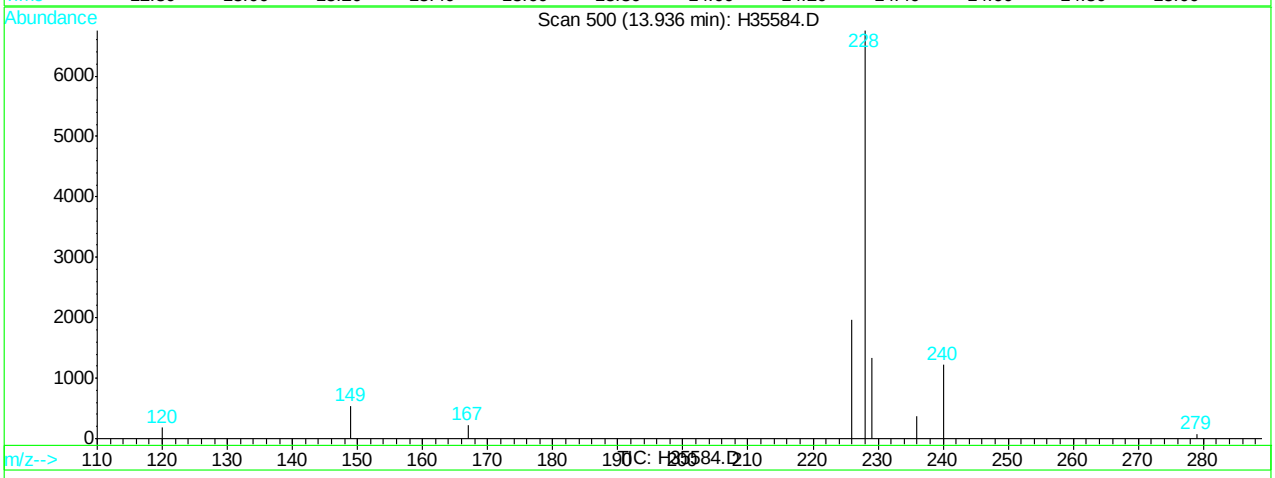
H35584.D H10239SP.M Tue Oct 27 15:23:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 5.69ppb m

response 26802

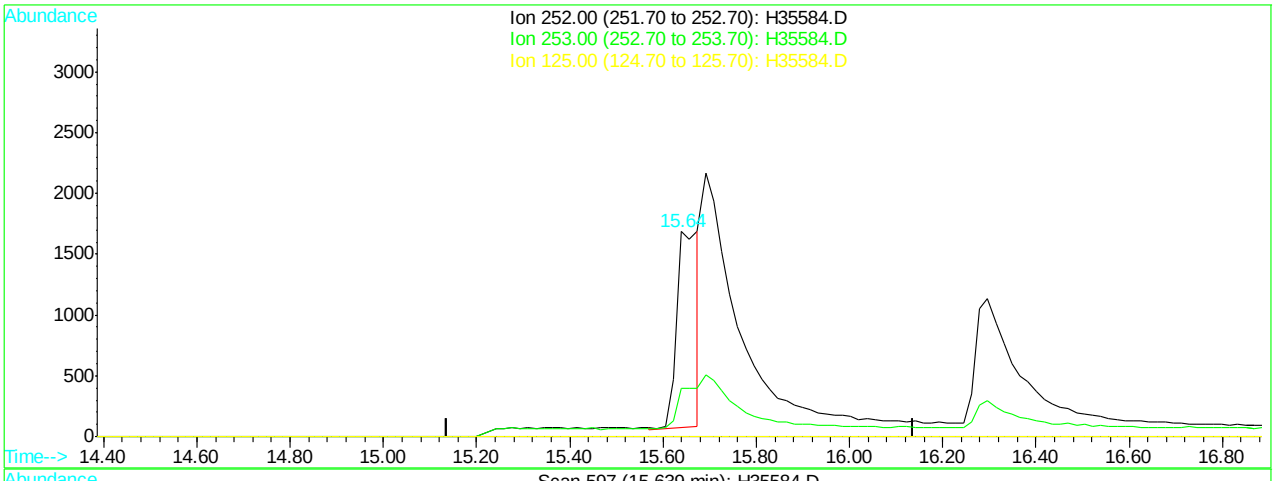
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	29.24
229.00	20.20	19.92
0.00	0.00	0.00

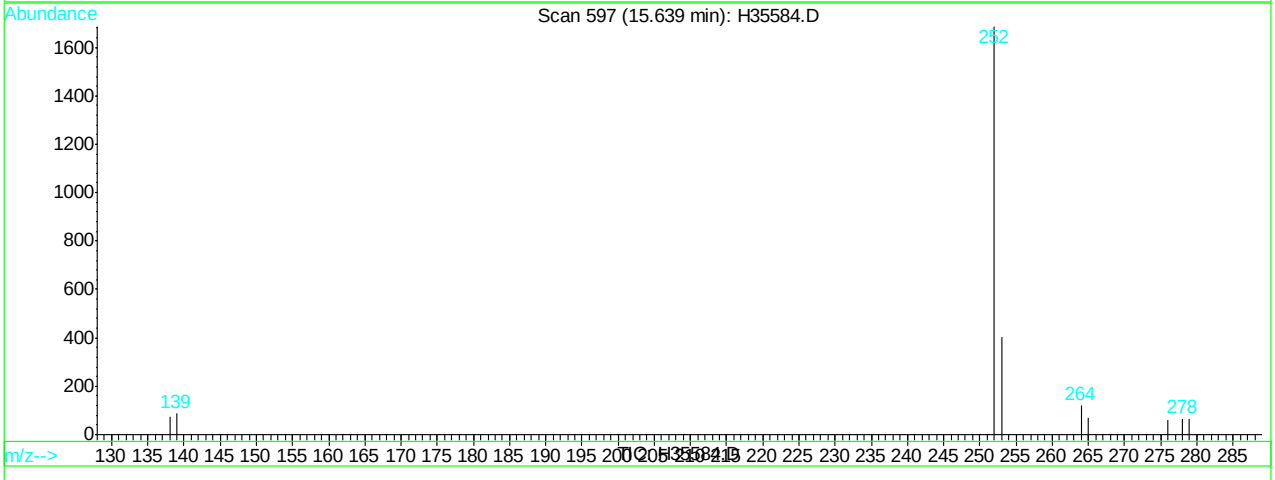
H35584.D H10239SP.M Tue Oct 27 15:23:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 5.58ppb m

response 5387

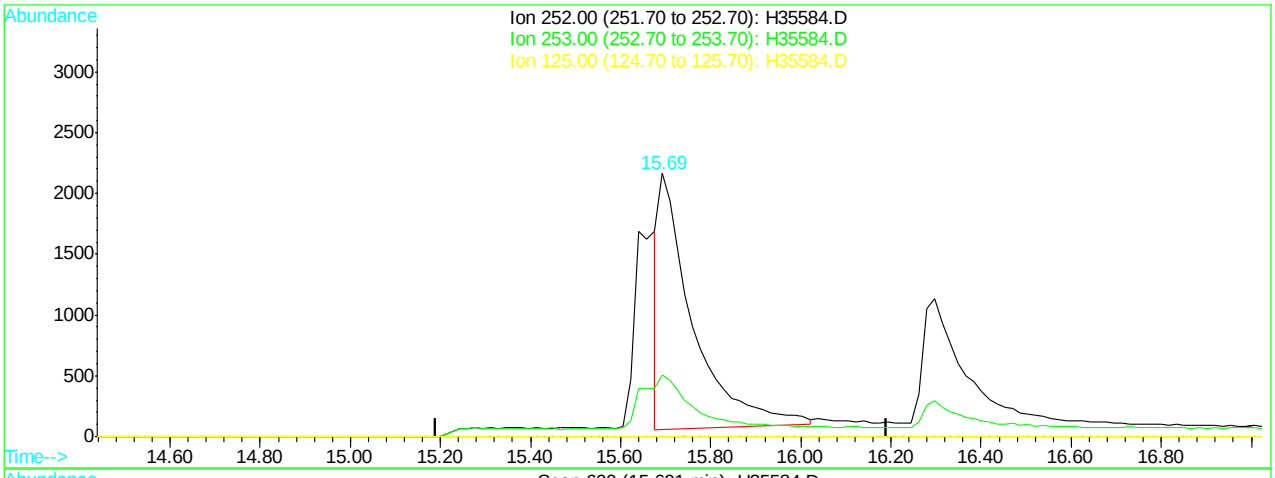
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	23.78
125.00	0.00	0.00
0.00	0.00	0.00

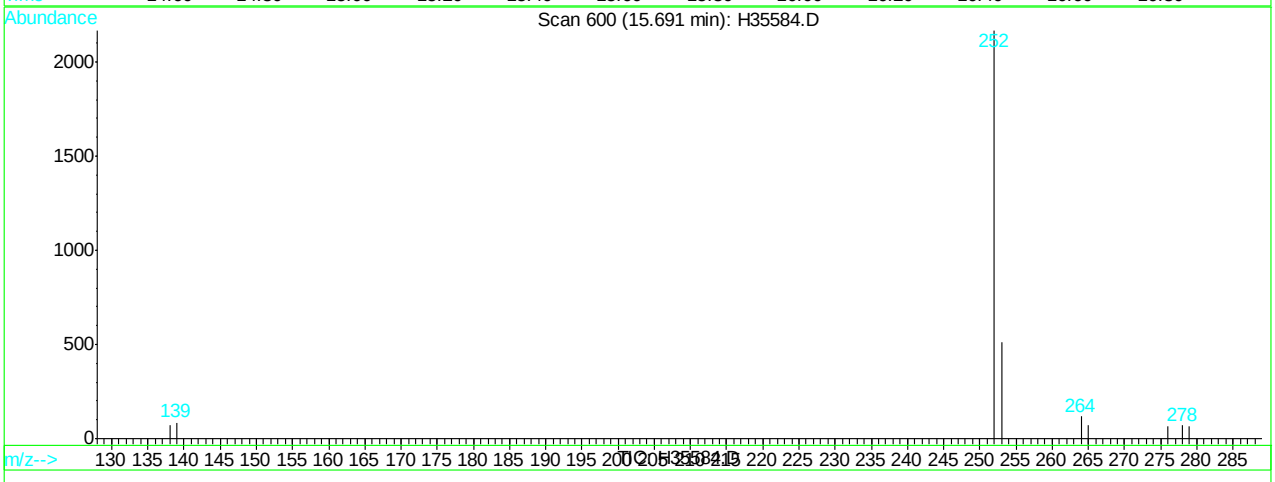
H35584.D H10239SP.M Tue Oct 27 15:23:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 6.96ppb m

response 11016

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	23.59
125.00	0.00	0.00
0.00	0.00	0.00

H35584.D H10239SP.M Tue Oct 27 15:23:38 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 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	112006	4.00 ppb	-0.03
4) Naphthalene-d8	7.54	136	102360	4.00 ppb	-0.03
9) Acenaphthene-d10	9.57	164	82651	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	105276	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	16336	4.00 ppb	-0.02
26) Perylene-d12	16.38	264	4933	4.00 ppb	0.02

System Monitoring Compounds					
5) Nitrobenzene-d5	6.57	82	235956	34.03 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 680.60%#		
10) 2-Fluorobiphenyl	8.87	172	2949666	44.22 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 884.40%#		
16) 2,4,6-Tribromophenol	10.40	330	383317	118.70 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1187.00%#		
23) Terphenyl-d14	12.66	244	303763	74.65 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1493.00%#		

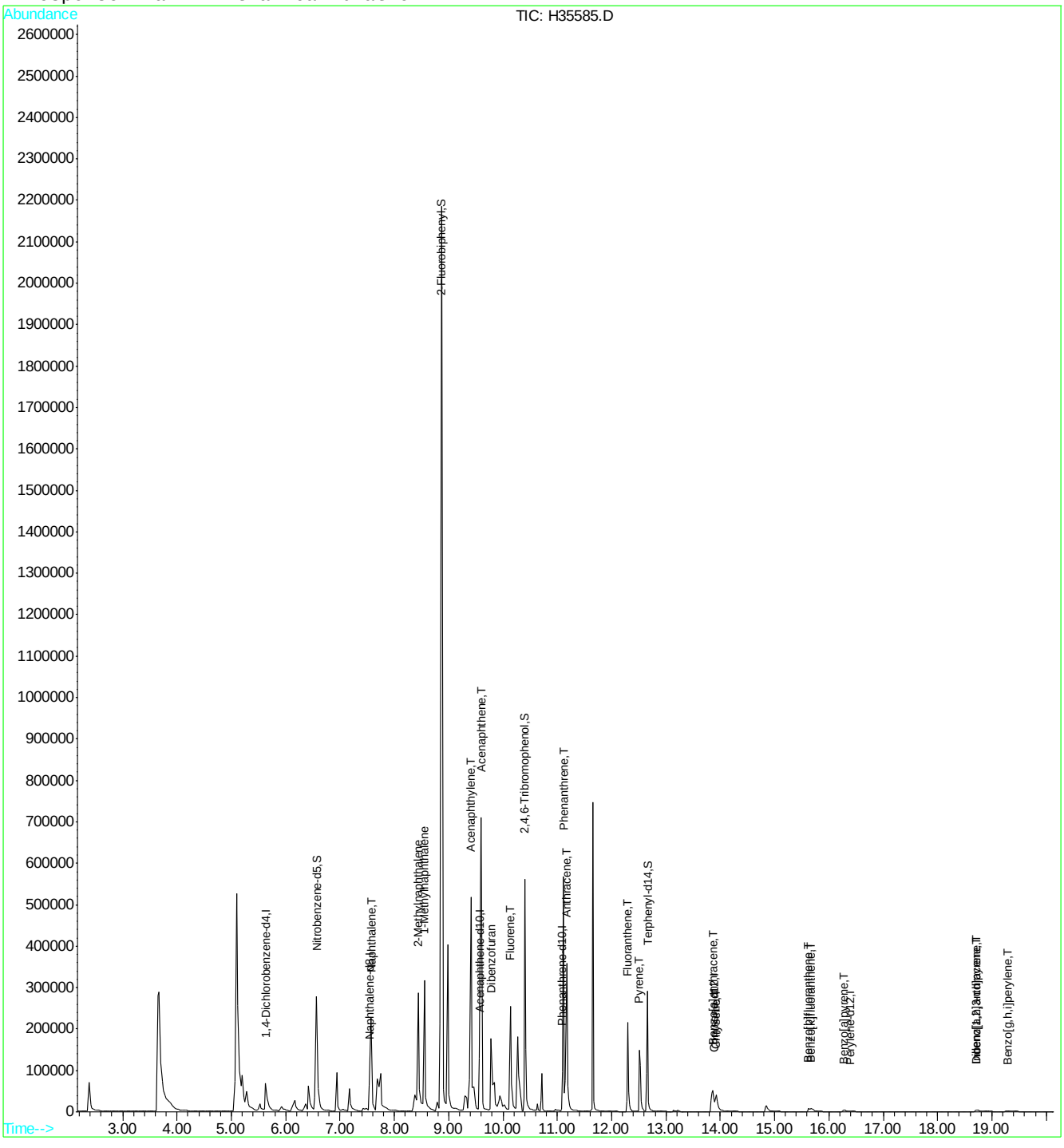
Target Compounds						Qvalue
6) Naphthalene	7.57	128	302375	5.67 ppb	#	90
7) 2-Methylnaphthalene	8.44	142	335058m	10.93 ppb		
8) 1-Methylnaphthalene	8.55	142	425662	7.90 ppb	#	52
11) Acenaphthylene	9.41	152	655028	11.99 ppb		89
12) Acenaphthene	9.60	153	462765	9.34 ppb		79
13) Dibenzofuran	9.78	168	275766	4.59 ppb		92
14) Fluorene	10.13	166	178801	5.56 ppb	#	25
18) Phenanthrene	11.11	178	505519m	10.20 ppb		
19) Anthracene	11.17	178	449171m	7.84 ppb		
20) Fluoranthene	12.29	202	280666	10.16 ppb		99
22) Pyrene	12.51	202	263134	9.76 ppb		95
24) Benzo[a]anthracene	13.87	228	54461	12.30 ppb		99
25) Chrysene	13.92	228	67822	9.33 ppb		98
27) Benzo[b]fluoranthene	15.62	252	13485m	10.27 ppb		
28) Benzo[k]fluoranthene	15.67	252	32938m	15.29 ppb		
29) Benzo[a]pyrene	16.28	252	19471	11.90 ppb		99
30) Indeno[1,2,3-cd]pyrene	18.72	276	12883	12.19 ppb		100
31) Dibenz[a,h]anthracene	18.72	278	9048	10.63 ppb		100
32) Benzo[g,h,i]perylene	19.29	276	10366	10.25 ppb		97

(#) = qualifier out of range (m) = manual integration
H35585.D H10239SP.M Tue Oct 27 15:23:46 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: H10239SP.RES

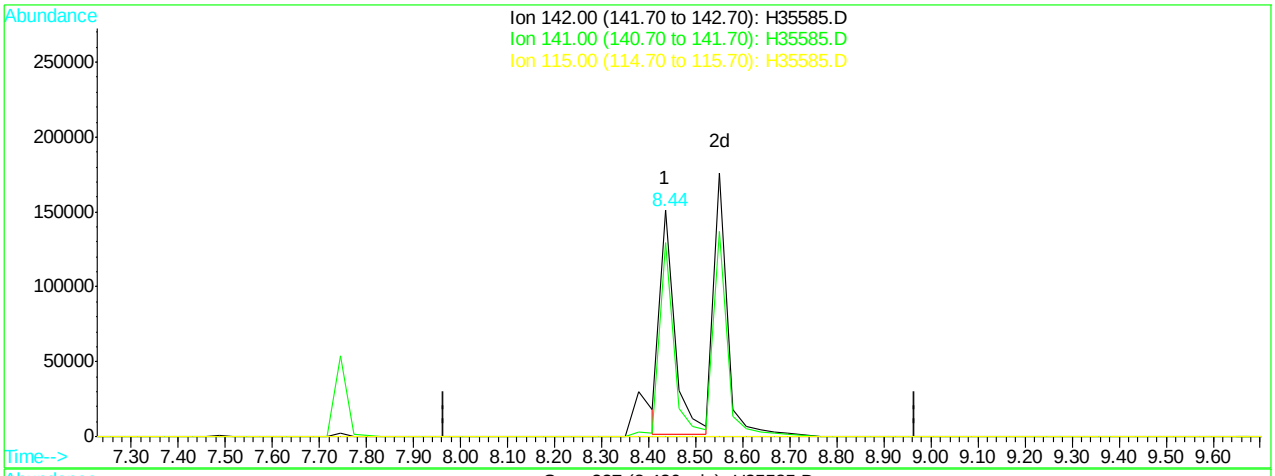
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

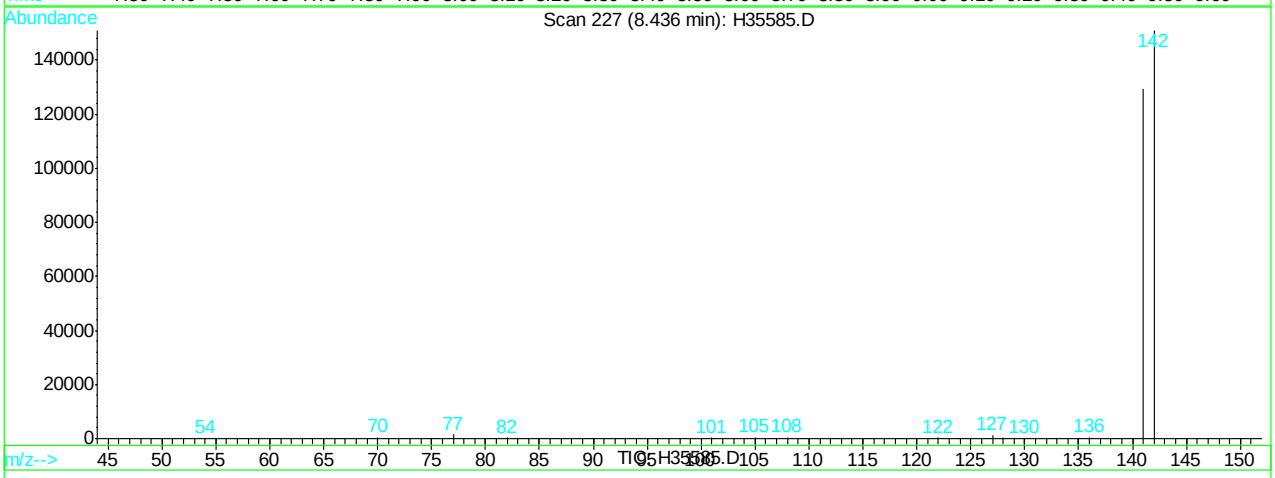


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.44min 10.93ppb m

response 335058

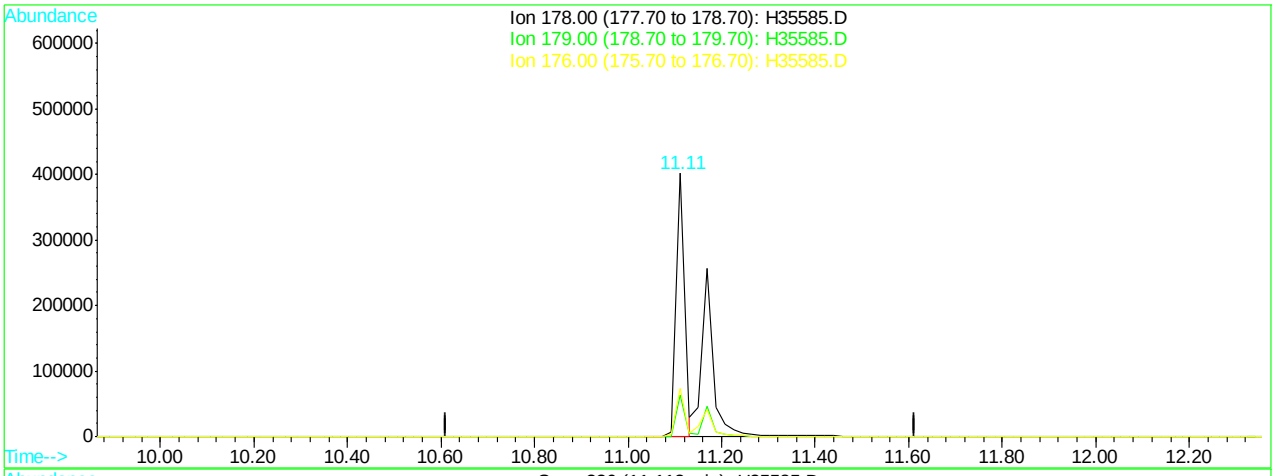
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	84.40#
115.00	0.00	0.00
0.00	0.00	0.00

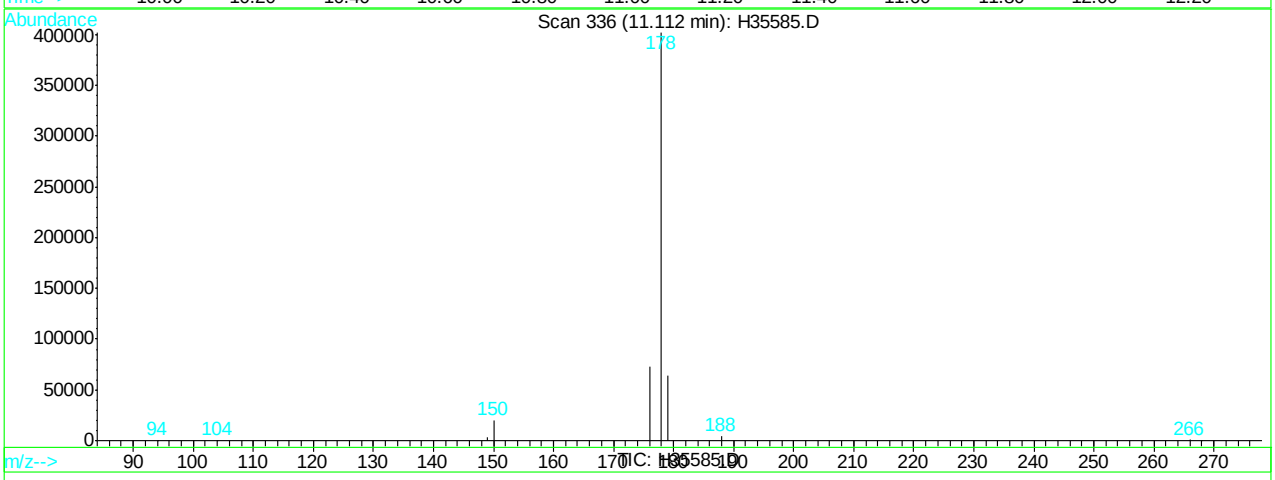
H35585.D H10239SP.M Tue Oct 27 15:24:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 10.20ppb m

response 505519

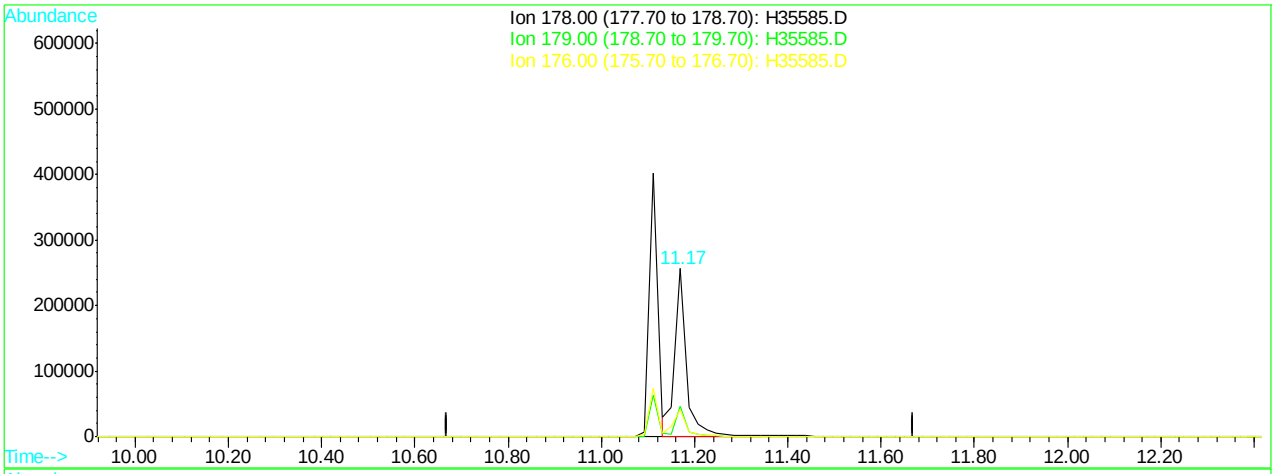
Ion	Exp%	Act%
178.00	100	100
179.00	11.60	15.88#
176.00	24.90	18.19
0.00	0.00	0.00

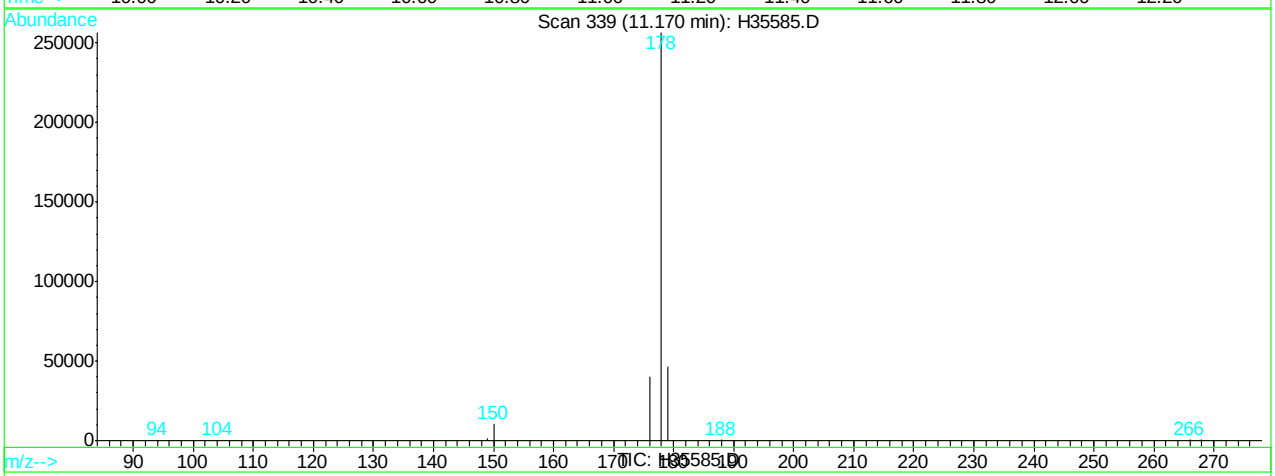
H35585.D H10239SP.M Tue Oct 27 15:24:13 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 7.84ppb m

response 449171

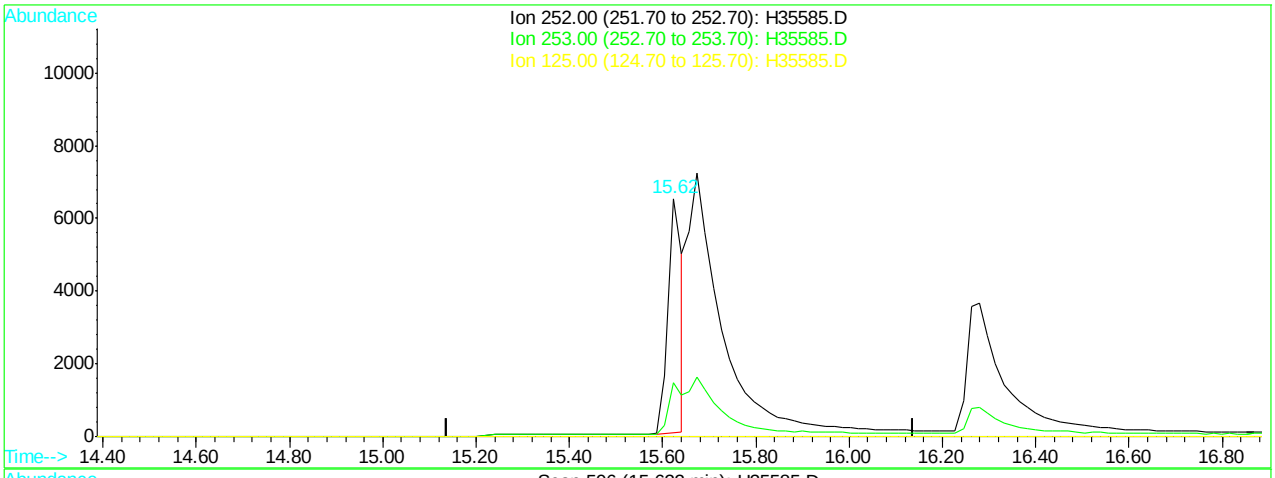
Ion	Exp%	Act%
178.00	100	100
179.00	12.00	18.26#
176.00	23.40	15.79#
0.00	0.00	0.00

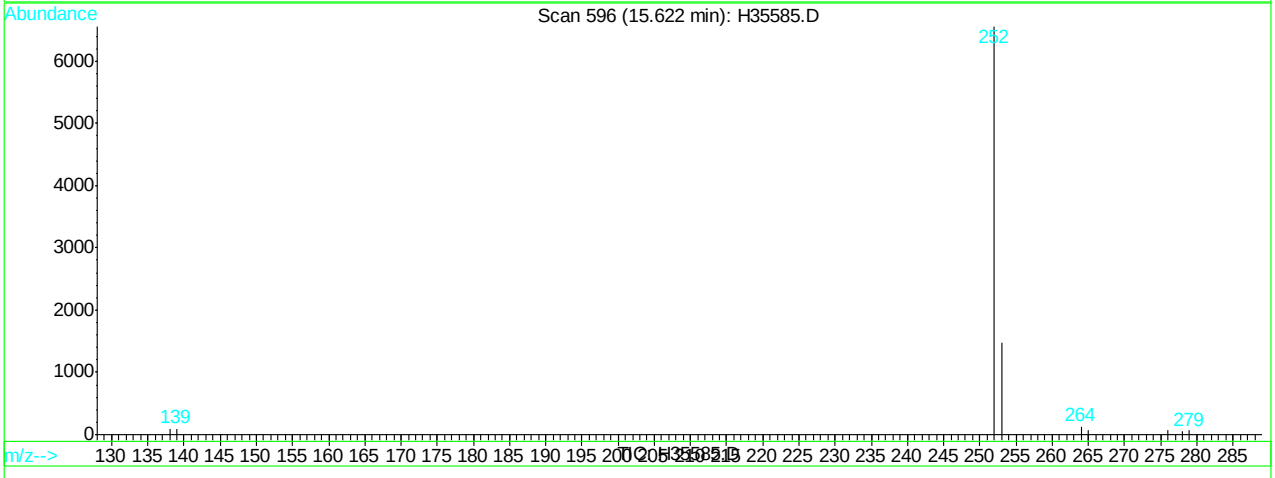
H35585.D H10239SP.M Tue Oct 27 15:24:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.62min 10.27ppb m

response 13485

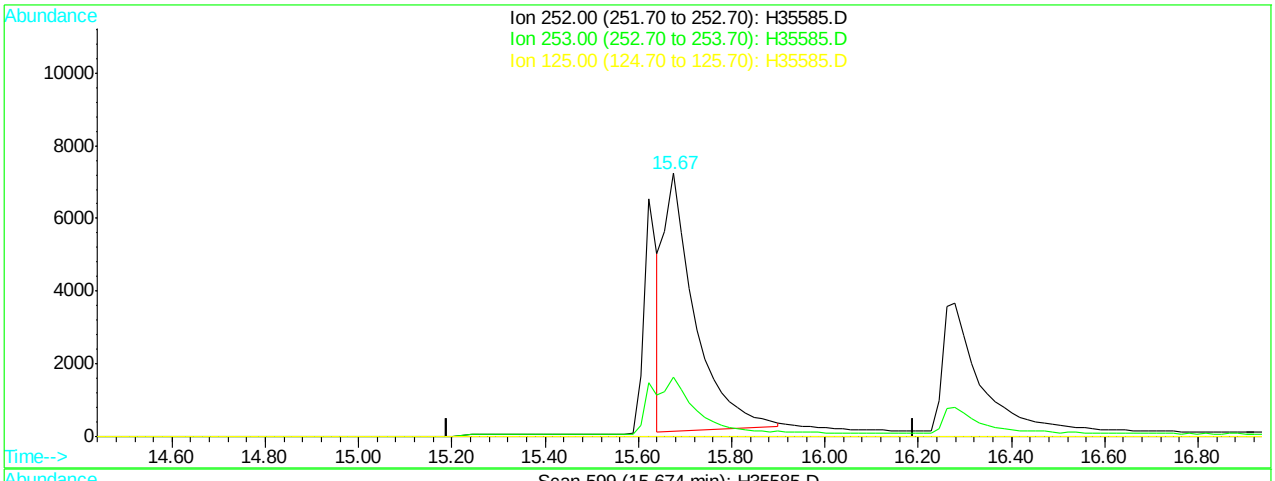
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	22.40
125.00	0.00	0.00
0.00	0.00	0.00

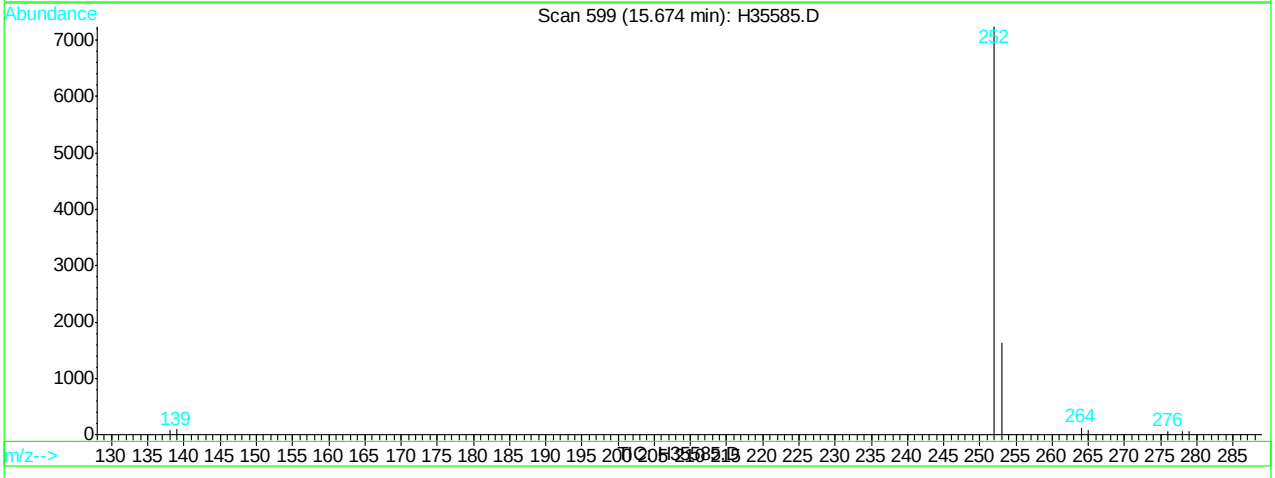
H35585.D H10239SP.M Tue Oct 27 15:24:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 15.29ppb m

response 32938

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	22.63
125.00	0.00	0.00
0.00	0.00	0.00

H35585.D H10239SP.M Tue Oct 27 15:24:25 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:22:10 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	141635	4.00	ppb		0.00
4) Naphthalene-d8	7.54	136	121060	4.00	ppb		0.00
9) Acenaphthene-d10	9.57	164	100331	4.00	ppb		0.00
15) Phenanthrene-d10	11.09	188	108973	4.00	ppb		0.00
21) Chrysene-d12	13.90	240	16569	4.00	ppb		0.00
26) Perylene-d12	16.38	264	7697	4.00	ppb		0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb		
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#		
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb		
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#		
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb		
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#		
23) Terphenyl-d14	0.00	244	0	0.00	ppb		
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#		

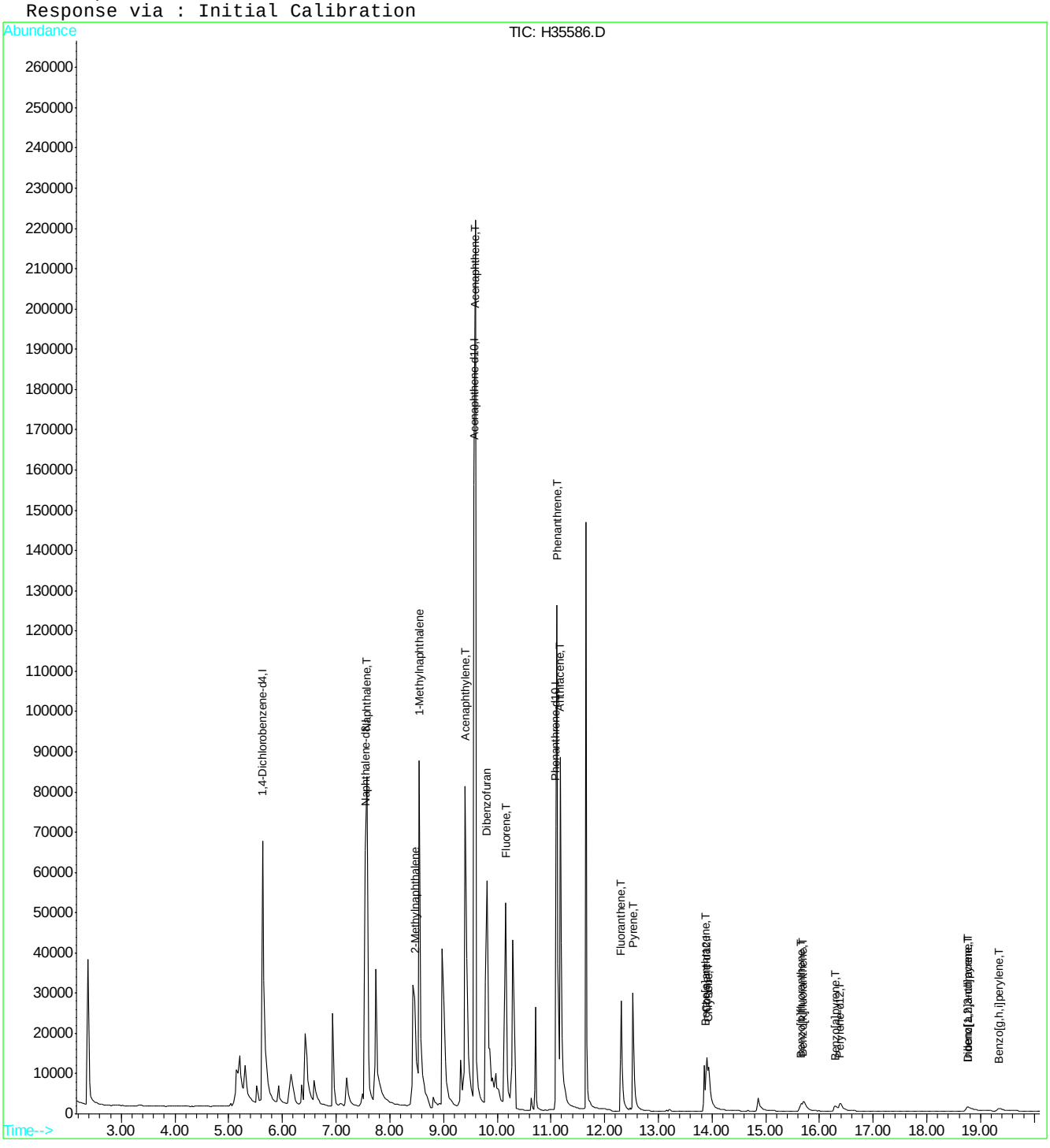
Target Compounds							Qvalue
6) Naphthalene	7.57	128	113075	2.79	ppb		98
7) 2-Methylnaphthalene	8.46	142	78333	2.35	ppb	#	29
8) 1-Methylnaphthalene	8.55	142	131184	2.91	ppb	#	97
11) Acenaphthylene	9.41	152	127700	1.97	ppb		92
12) Acenaphthene	9.59	153	146320	2.61	ppb		86
13) Dibenzofuran	9.81	168	101688	1.99	ppb		92
14) Fluorene	10.16	166	54865	2.07	ppb		98
18) Phenanthrene	11.11	178	125083	2.63	ppb		97
19) Anthracene	11.17	178	140615	2.55	ppb		97
20) Fluoranthene	12.31	202	57039	2.37	ppb	#	93
22) Pyrene	12.53	202	60041	2.21	ppb		97
24) Benzo[a]anthracene	13.88	228	11653m	3.07	ppb		
25) Chrysene	13.94	228	19162m	2.27	ppb		
27) Benzo[b]fluoranthene	15.66	252	4919m	2.34	ppb		
28) Benzo[k]fluoranthene	15.69	252	11174m	2.62	ppb		
29) Benzo[a]pyrene	16.30	252	6567	2.52	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.77	276	4359	2.37	ppb		87
31) Dibenz[a,h]anthracene	18.77	278	3070	2.45	ppb	#	86
32) Benzo[g,h,i]perylene	19.34	276	3710	2.18	ppb		99

(#) = qualifier out of range (m) = manual integration
H35586.D H10239SP.M Tue Oct 27 15:24:33 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: H10239SP.RES

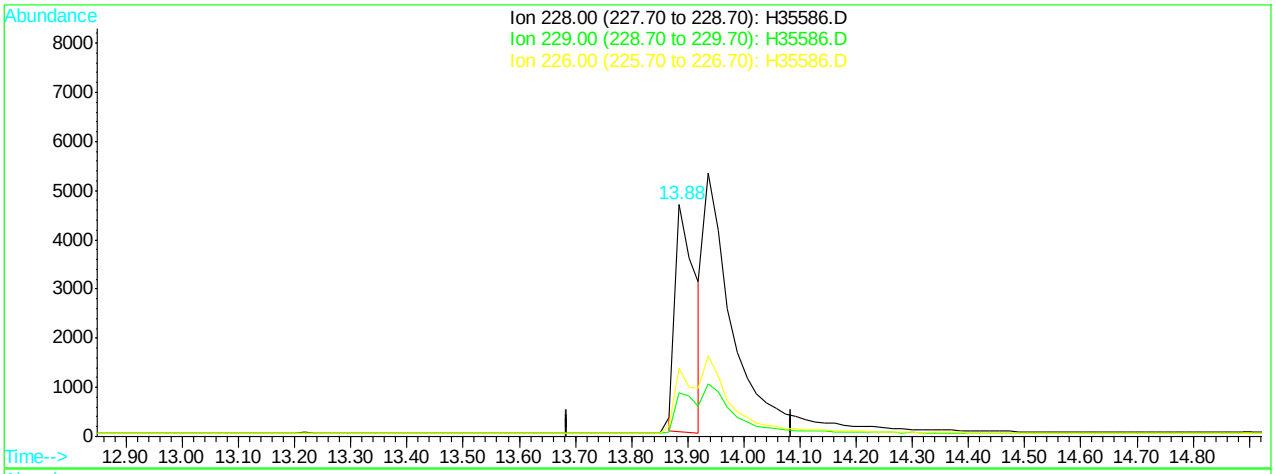
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

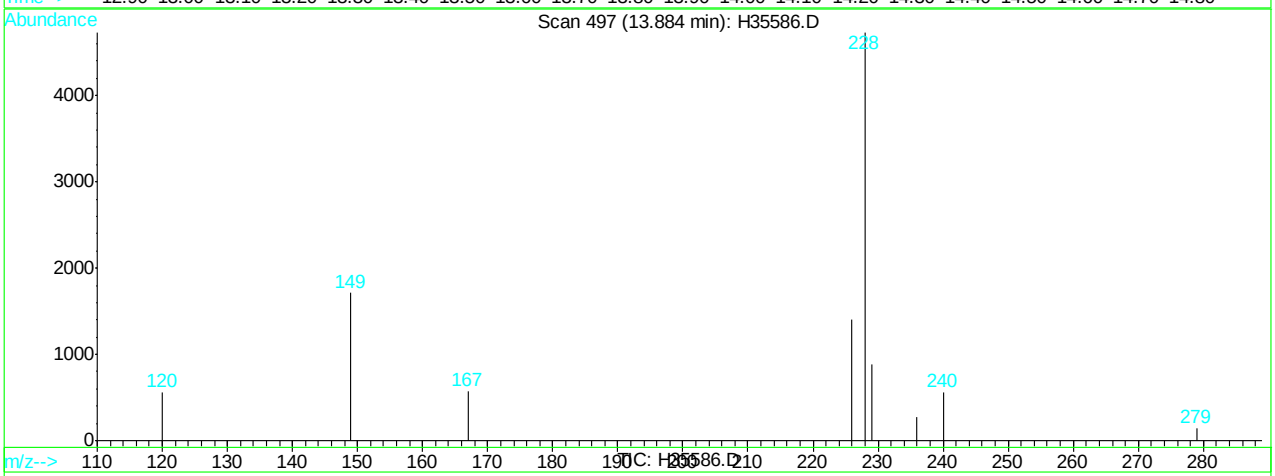


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 3.07ppb m

response 11653

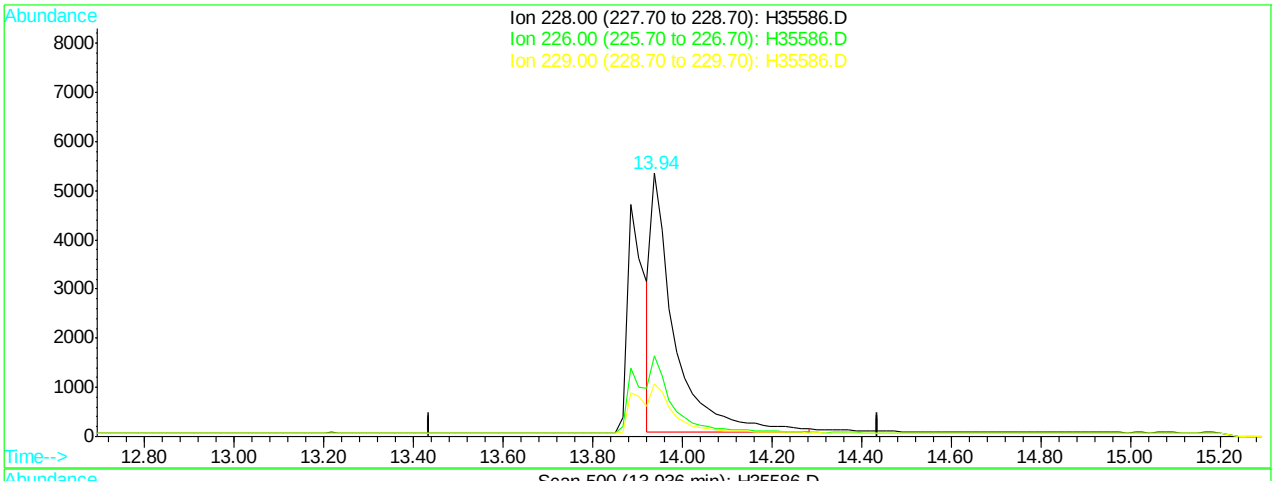
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	18.67
226.00	30.50	29.56
0.00	0.00	0.00

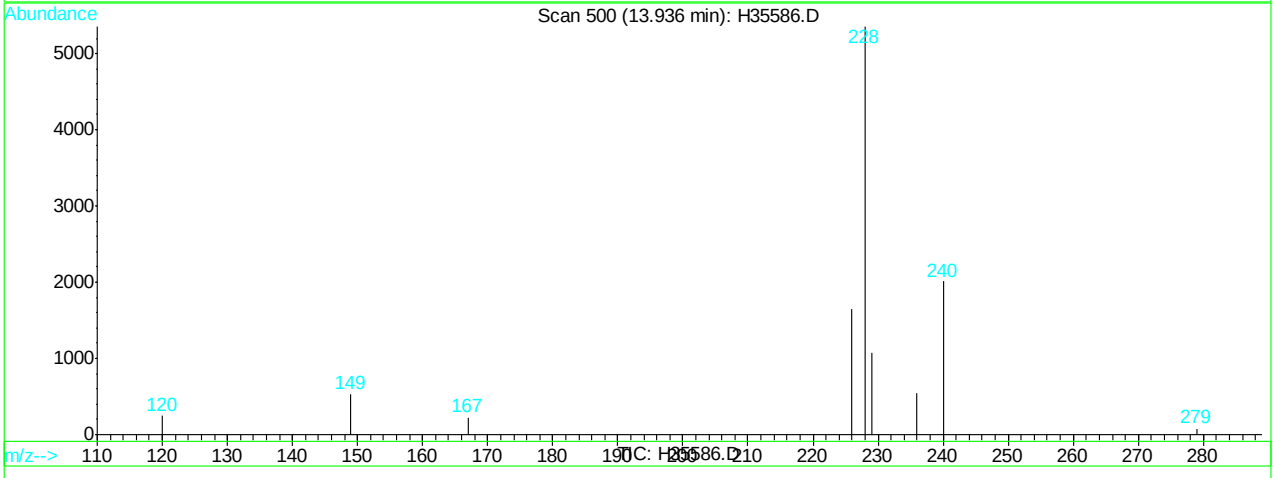
H35586.D H10239SP.M Tue Oct 27 15:24:50 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.27ppb m

response 19162

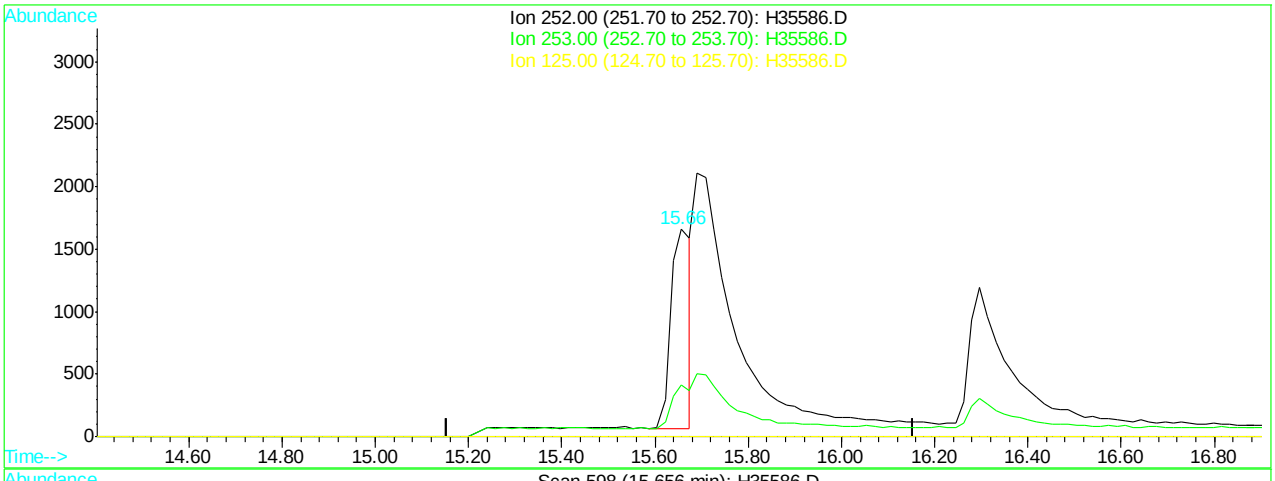
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	30.82
229.00	21.20	19.97
0.00	0.00	0.00

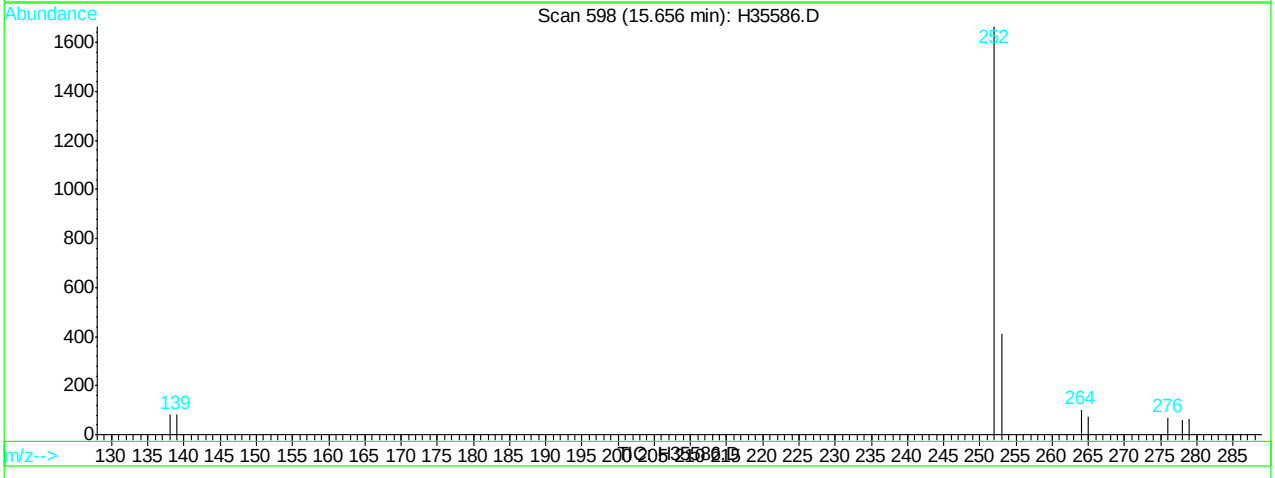
H35586.D H10239SP.M Tue Oct 27 15:24:53 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 2.34ppb m

response 4919

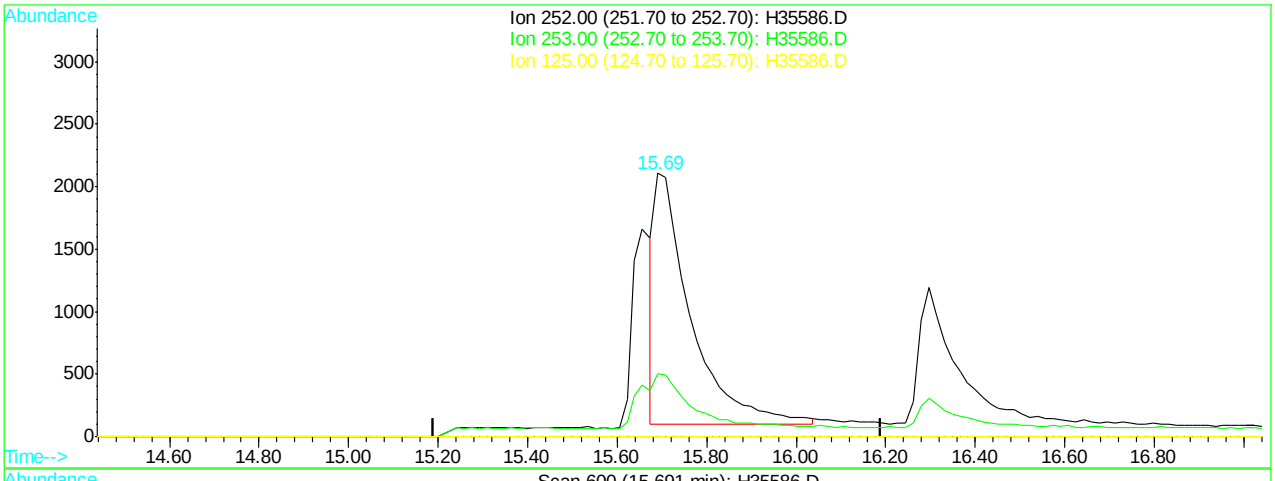
Ion	Exp%	Act%
252.00	100	100
253.00	27.80	24.74
125.00	0.00	0.00
0.00	0.00	0.00

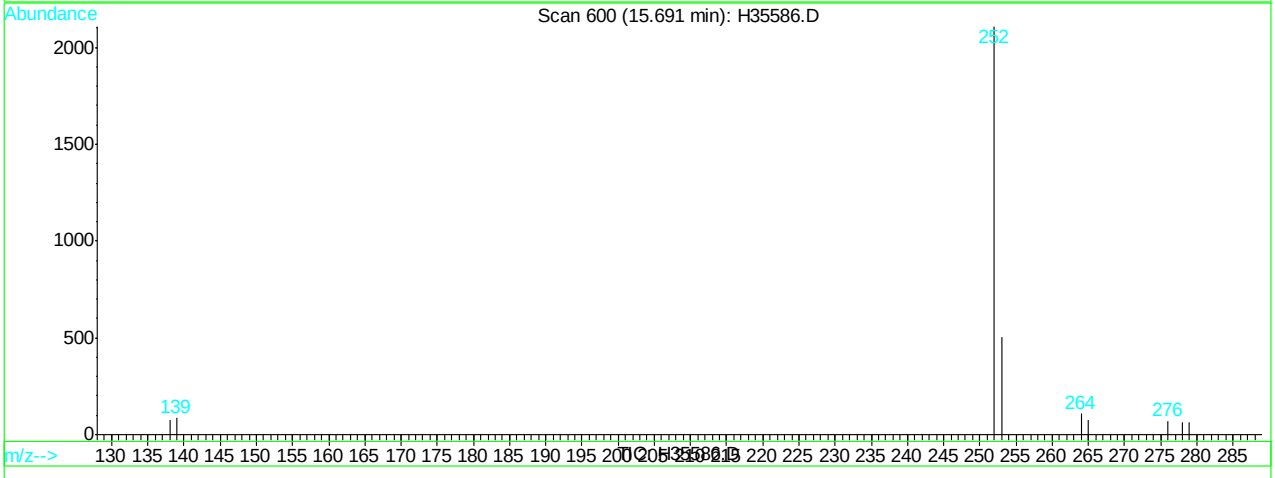
H35586.D H10239SP.M Tue Oct 27 15:24:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.62ppb m

response 11174

Ion	Exp%	Act%
252.00	100	100
253.00	26.10	23.91
125.00	0.00	0.00
0.00	0.00	0.00

H35586.D H10239SP.M Tue Oct 27 15:25:00 2009

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13034.D
Acq On : 5 Sep 2009 12:10 pm
Operator : sheilac
Sample : ic602-75,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 13:02:34 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

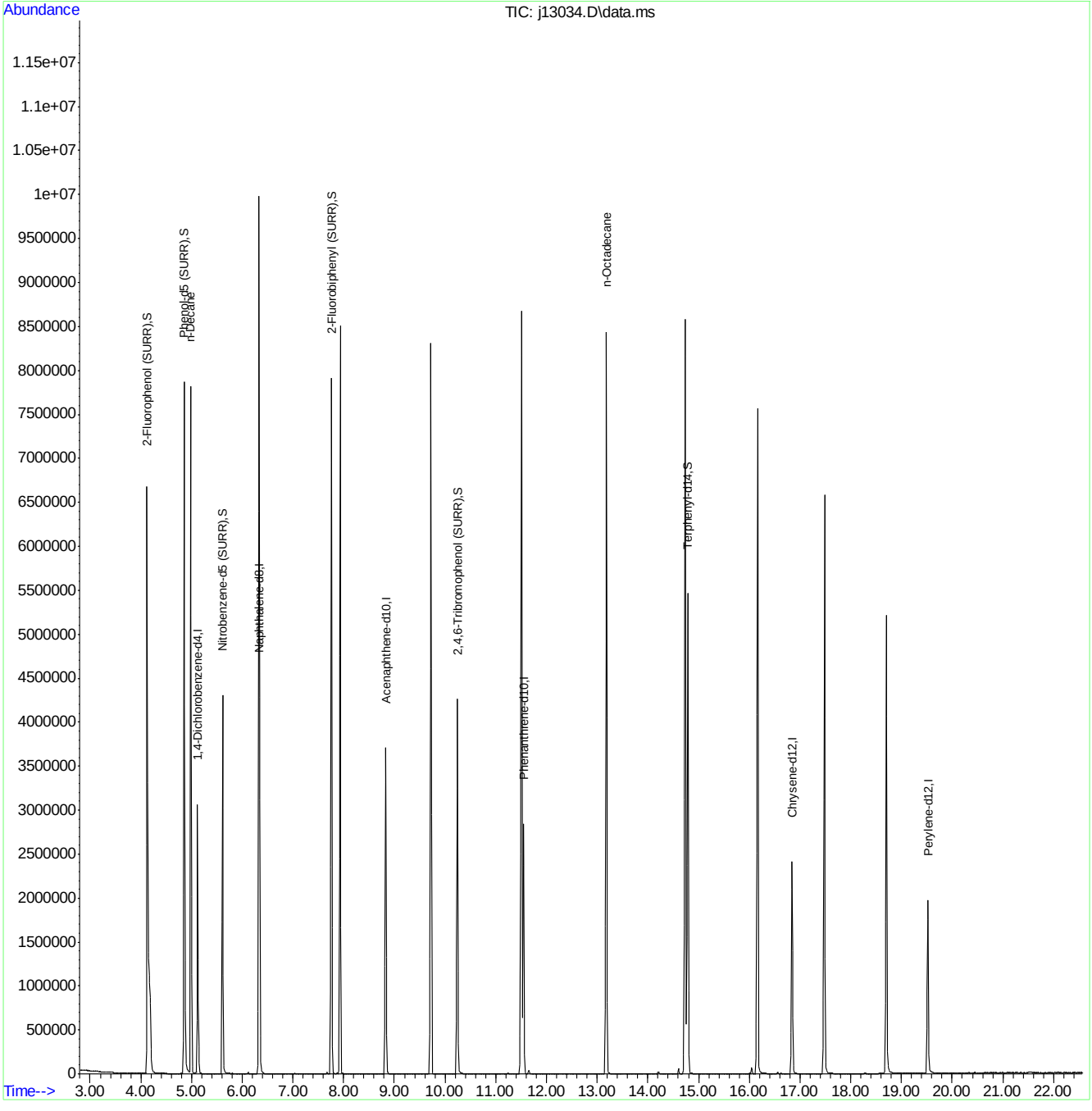
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	555192	40.00	ug/ml	0.00
27) Naphthalene-d8	6.344	136	2116845	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.831	164	1098414	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.548	188	1552400	40.00	ug/ml	0.00
86) Chrysene-d12	16.843	240	1471649	40.00	ug/ml	0.00
95) Perylene-d12	19.523	264	1142412	40.00	ug/ml	0.00
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.129	112	2840590	166.83	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 166.83%#			
9) Phenol-d5 (SURR)	4.851	99	3374526	177.25	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 177.25%#			
28) Nitrobenzene-d5 (SURR)	5.611	82	1594922	88.39	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 176.78%#			
51) 2-Fluorobiphenyl (SURR)	7.761	172	3130762	81.26	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 162.52%#			
75) 2,4,6-Tribromophenol (...	10.248	330	774369	199.73	ug/ml	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 199.73%#			
89) Terphenyl-d14	14.789	244	2694853	78.73	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 157.46%#			
Target Compounds						Qvalue
15) n-Decane	4.985	57	1955649	95.13	ug/ml	98
79) n-Octadecane	13.185	57	2361004	111.21	ug/ml#	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13034.D
Acq On : 5 Sep 2009 12:10 pm
Operator : sheilac
Sample : ic602-75,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 13:02:34 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13035.D
Acq On : 5 Sep 2009 12:38 pm
Operator : sheilac
Sample : icc602-50,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 13:01:51 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	496798	40.00	ug/ml	0.00
27) Naphthalene-d8	6.344	136	1869470	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.831	164	944738	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.548	188	1315219	40.00	ug/ml	0.00
86) Chrysene-d12	16.848	240	1307365	40.00	ug/ml	0.00
95) Perylene-d12	19.523	264	1041766	40.00	ug/ml	0.00
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.124	112	1573960	103.31	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 103.31%#			
9) Phenol-d5 (SURR)	4.846	99	1921053	112.77	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 112.77%#			
28) Nitrobenzene-d5 (SURR)	5.605	82	897915	56.35	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 112.70%			
51) 2-Fluorobiphenyl (SURR)	7.756	172	1715160	51.76	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 103.52%			
75) 2,4,6-Tribromophenol (...	10.243	330	387045	124.79	ug/ml	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 124.79%			
89) Terphenyl-d14	14.784	244	1499902	49.32	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 98.64%			
Target Compounds						Qvalue
15) n-Decane	4.980	57	1149471	62.49	ug/ml	98
79) n-Octadecane	13.185	57	1343294	74.69	ug/ml#	98

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

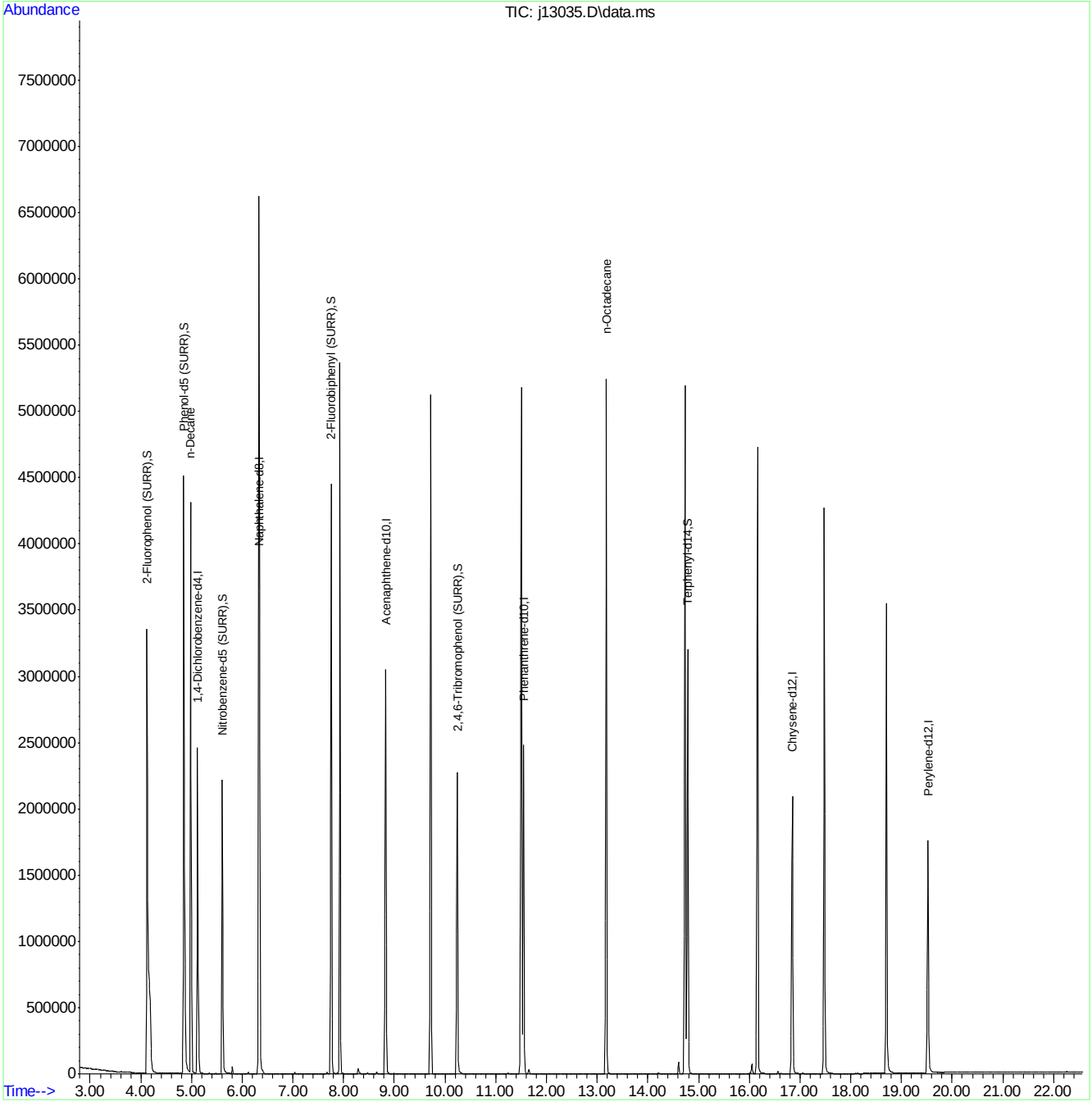
8.6.23

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13035.D
Acq On : 5 Sep 2009 12:38 pm
Operator : sheilac
Sample : icc602-50,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 13:01:51 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13036.D
Acq On : 5 Sep 2009 1:07 pm
Operator : sheilac
Sample : ic602-5,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 13:31:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

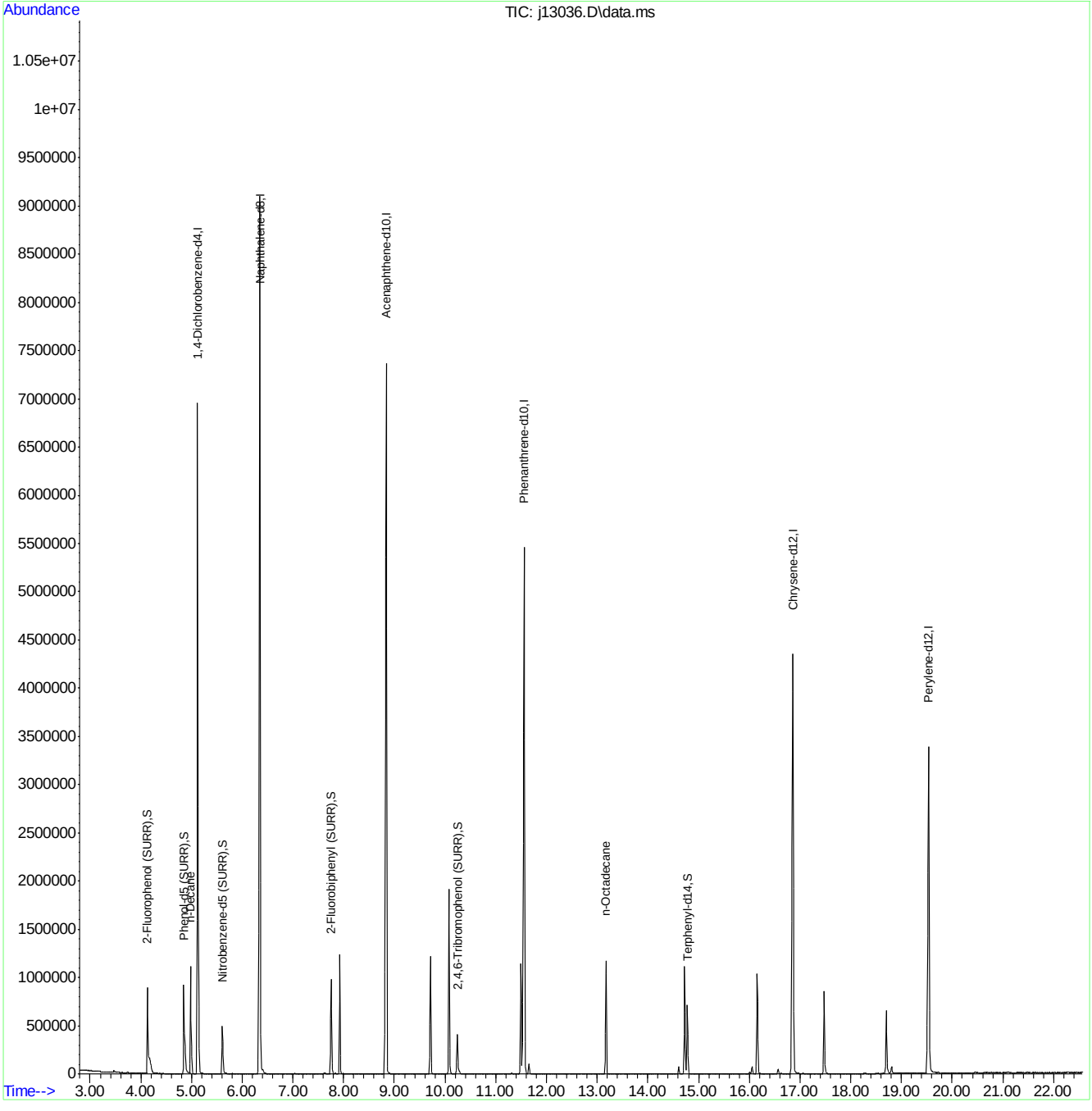
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	1277386	40.00	ug/ml	0.00
27) Naphthalene-d8	6.349	136	4754760	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.841	164	2334982	40.00	ug/ml	0.01
69) Phenanthrene-d10	11.559	188	3244675	40.00	ug/ml	0.01
86) Chrysene-d12	16.859	240	2811346	40.00	ug/ml	0.02
95) Perylene-d12	19.539	264	2160425	40.00	ug/ml	0.02
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.129	112	369008	9.42	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 9.42%#			
9) Phenol-d5 (SURR)	4.846	99	465089	10.62	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 10.62%			
28) Nitrobenzene-d5 (SURR)	5.606	82	234444	5.78	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 11.56%#			
51) 2-Fluorobiphenyl (SURR)	7.756	172	415461	5.07	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 10.14%#			
75) 2,4,6-Tribromophenol (...	10.243	330	82686	17.41	ug/ml	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 17.41%#			
89) Terphenyl-d14	14.778	244	327763	5.01	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 10.02%#			
Target Compounds						Qvalue
15) n-Decane	4.980	57	279116	5.90	ug/ml	98
79) n-Octadecane	13.174	57	278185	6.27	ug/ml#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13036.D
Acq On : 5 Sep 2009 1:07 pm
Operator : sheilac
Sample : ic602-5,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 13:31:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13037.D
Acq On : 5 Sep 2009 1:36 pm
Operator : sheilac
Sample : ic602-10,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 14:19:27 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	596457	40.00	ug/ml	0.00
27) Naphthalene-d8	6.344	136	2198791	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.831	164	1095207	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.553	188	1442026	40.00	ug/ml	0.00
86) Chrysene-d12	16.849	240	1333794	40.00	ug/ml	0.00
95) Perylene-d12	19.528	264	977978	40.00	ug/ml	0.00
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.129	112	377700	20.65	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 20.65%			
9) Phenol-d5 (SURR)	4.846	99	426754	20.87	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 20.87%			
28) Nitrobenzene-d5 (SURR)	5.606	82	200949	10.72	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 21.44%#			
51) 2-Fluorobiphenyl (SURR)	7.756	172	384468	10.01	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 20.02%#			
75) 2,4,6-Tribromophenol (...	10.238	330	67829	26.47	ug/ml	-0.01
Spiked Amount 100.000	Range 32 - 128		Recovery = 26.47%#			
89) Terphenyl-d14	14.779	244	328801	10.60	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 21.20%			
Target Compounds						Qvalue
15) n-Decane	4.980	57	288196	13.05	ug/ml	98
79) n-Octadecane	13.174	57	275371	13.96	ug/ml#	94

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

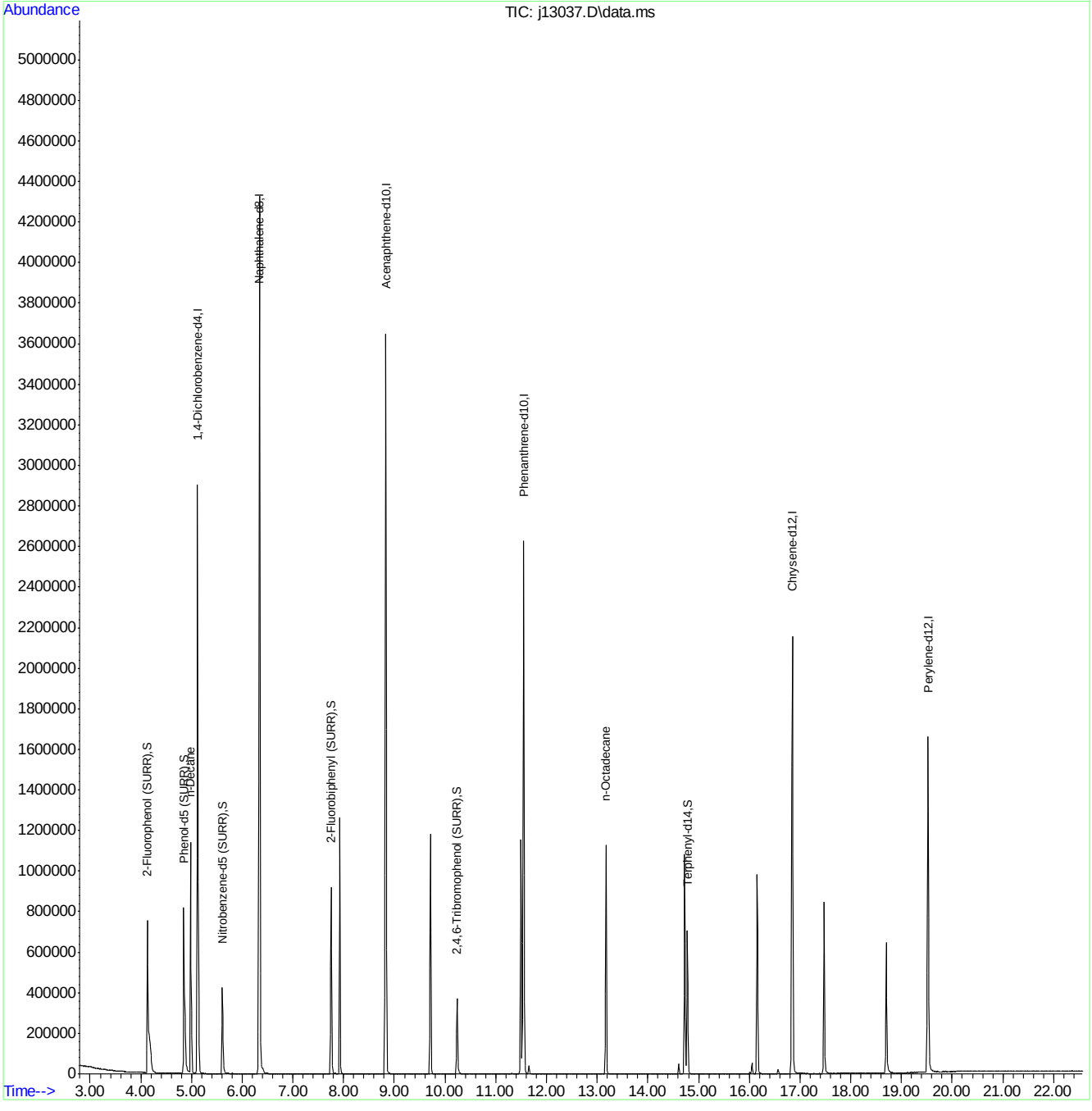
8.6.25

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13037.D
Acq On : 5 Sep 2009 1:36 pm
Operator : sheilac
Sample : ic602-10,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 14:19:27 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13038.D
Acq On : 5 Sep 2009 2:05 pm
Operator : sheilac
Sample : ic602-25,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 15:26:13 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

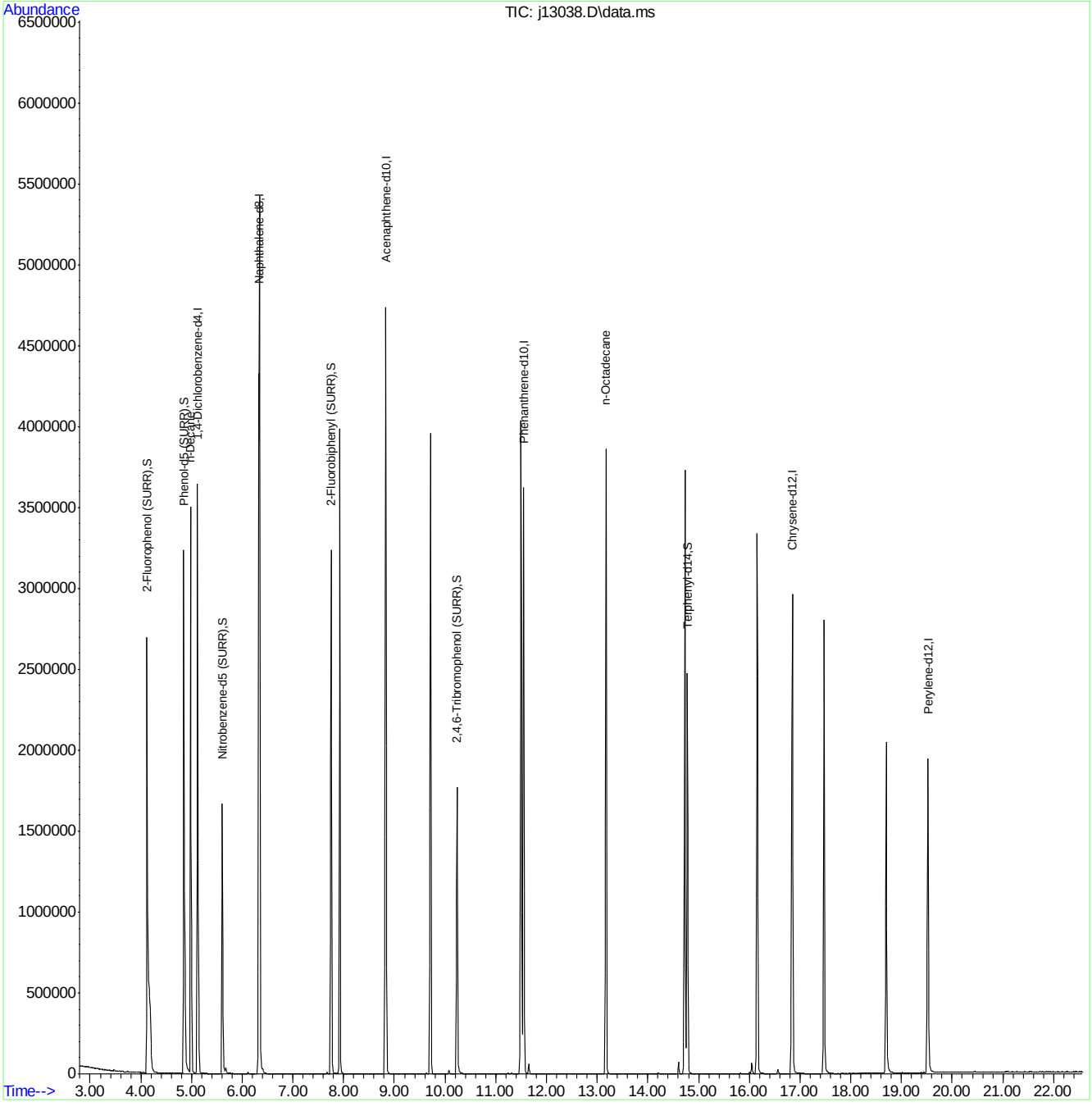
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	717431	40.00	ug/ml	0.00
27) Naphthalene-d8	6.344	136	2716917	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.831	164	1430280	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.553	188	2015446	40.00	ug/ml	0.00
86) Chrysene-d12	16.848	240	1841189	40.00	ug/ml	0.00
95) Perylene-d12	19.523	264	1148316	40.00	ug/ml	0.00
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.124	112	1168517	53.11	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 53.11%			
9) Phenol-d5 (SURR)	4.846	99	1387598	56.40	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 56.40%#			
28) Nitrobenzene-d5 (SURR)	5.606	82	673625	29.09	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 58.18%			
51) 2-Fluorobiphenyl (SURR)	7.756	172	1289839	25.71	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 51.42%			
75) 2,4,6-Tribromophenol (...	10.238	330	293520	66.83	ug/ml	-0.01
Spiked Amount 100.000	Range 32 - 128		Recovery = 66.83%			
89) Terphenyl-d14	14.779	244	1120163	26.16	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 52.32%			
Target Compounds						Qvalue
15) n-Decane	4.980	57	868092	32.68	ug/ml	97
79) n-Octadecane	13.174	57	974367	35.35	ug/ml#	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13038.D
Acq On : 5 Sep 2009 2:05 pm
Operator : sheilac
Sample : ic602-25,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 15:26:13 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13039.D
Acq On : 5 Sep 2009 2:34 pm
Operator : sheilac
Sample : ic602-100,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 15:27:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	887851	40.00	ug/ml	0.00
27) Naphthalene-d8	6.338	136	3680619	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.831	164	2065214	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.548	188	3055807	40.00	ug/ml	0.00
86) Chrysene-d12	16.849	240	3106031	40.00	ug/ml	0.00
95) Perylene-d12	19.528	264	2245617	40.00	ug/ml	0.00
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	4.129	112	5080496	186.59	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 186.59%#			
9) Phenol-d5 (SURR)	4.862	99	7267140	238.70	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 238.70%#			
28) Nitrobenzene-d5 (SURR)	5.616	82	3802783	121.21	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 242.42%#			
51) 2-Fluorobiphenyl (SURR)	7.767	172	7693703	106.21	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 212.42%#			
75) 2,4,6-Tribromophenol (...	10.259	330	2246736	280.61	ug/ml	0.01
Spiked Amount 100.000	Range 32 - 128		Recovery = 280.61%#			
89) Terphenyl-d14	14.805	244	8037941	111.26	ug/ml	0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 222.52%#			
Target Compounds						Qvalue
15) n-Decane	4.985	57	3563680	108.40	ug/ml	100
79) n-Octadecane	13.195	57	5405737	129.36	ug/ml#	98

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

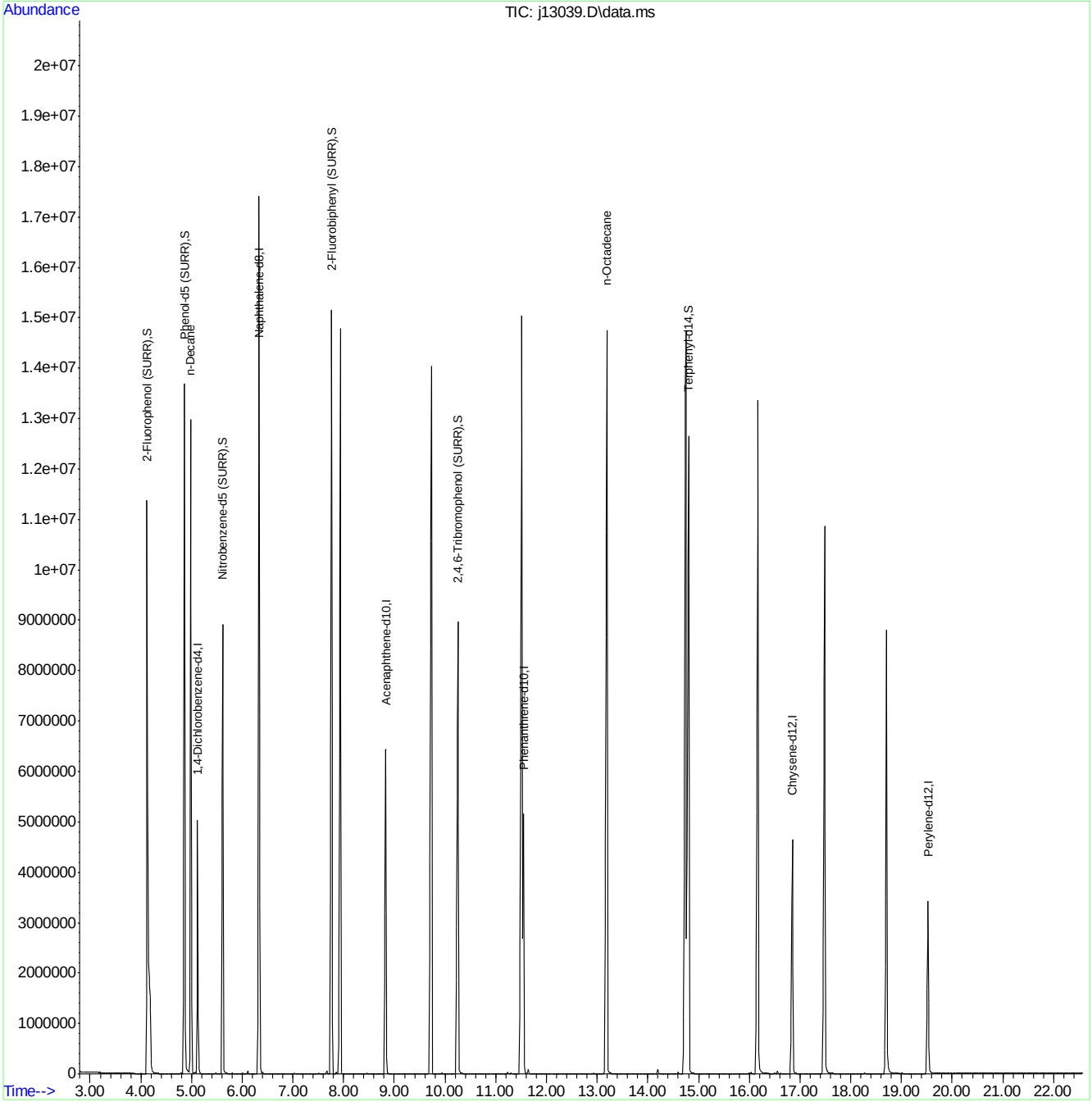
8.6.27

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13039.D
Acq On : 5 Sep 2009 2:34 pm
Operator : sheilac
Sample : ic602-100,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 15:27:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 12:32:10 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13041.D
Acq On : 5 Sep 2009 3:36 pm
Operator : sheilac
Sample : icv602-50,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 16:21:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 15:31:46 2009
Response via : Initial Calibration

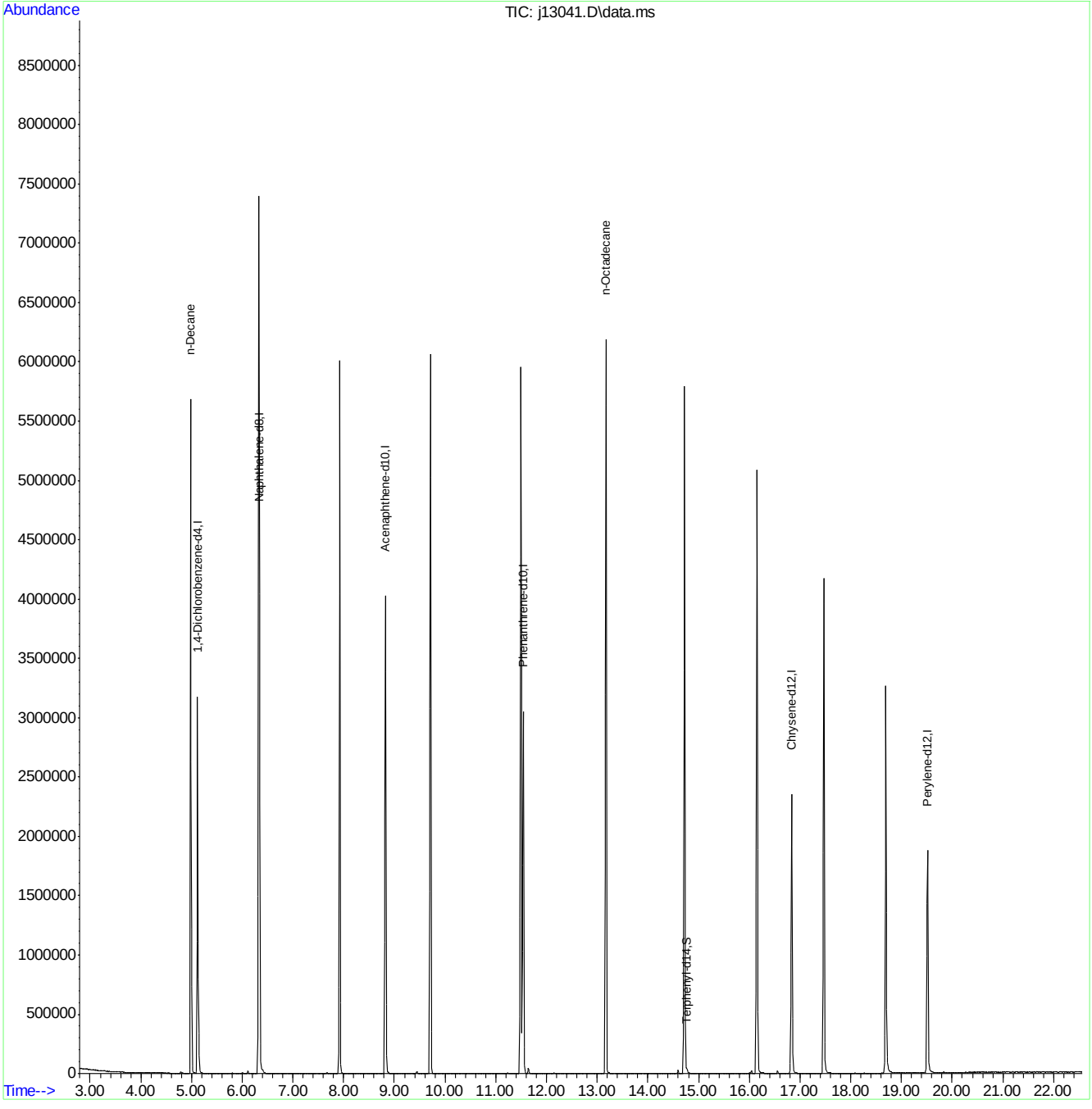
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.119	152	614661	40.00	ug/ml	0.00
27) Naphthalene-d8	6.338	136	2314354	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.826	164	1201895	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.543	188	1645589	40.00	ug/ml	0.00
86) Chrysene-d12	16.838	240	1423525	40.00	ug/ml	-0.01
95) Perylene-d12	19.517	264	1124683	40.00	ug/ml	-0.01
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
9) Phenol-d5 (SURR)	0.000	99	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
28) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
75) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
89) Terphenyl-d14	14.768	244	18167	0.53	ug/ml	-0.04
Spiked Amount 50.000	Range 12 - 145		Recovery	=	1.06%#	
Target Compounds						Qvalue
15) n-Decane	4.980	57	1408052	50.20	ug/ml	100
79) n-Octadecane	13.174	57	1559991	49.90	ug/ml#	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej602\
Data File : j13041.D
Acq On : 5 Sep 2009 3:36 pm
Operator : sheilac
Sample : icv602-50,(c10+c18)
Misc : op10821,Ej602,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 16:21:20 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Sat Sep 05 15:31:46 2009
Response via : Initial Calibration



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

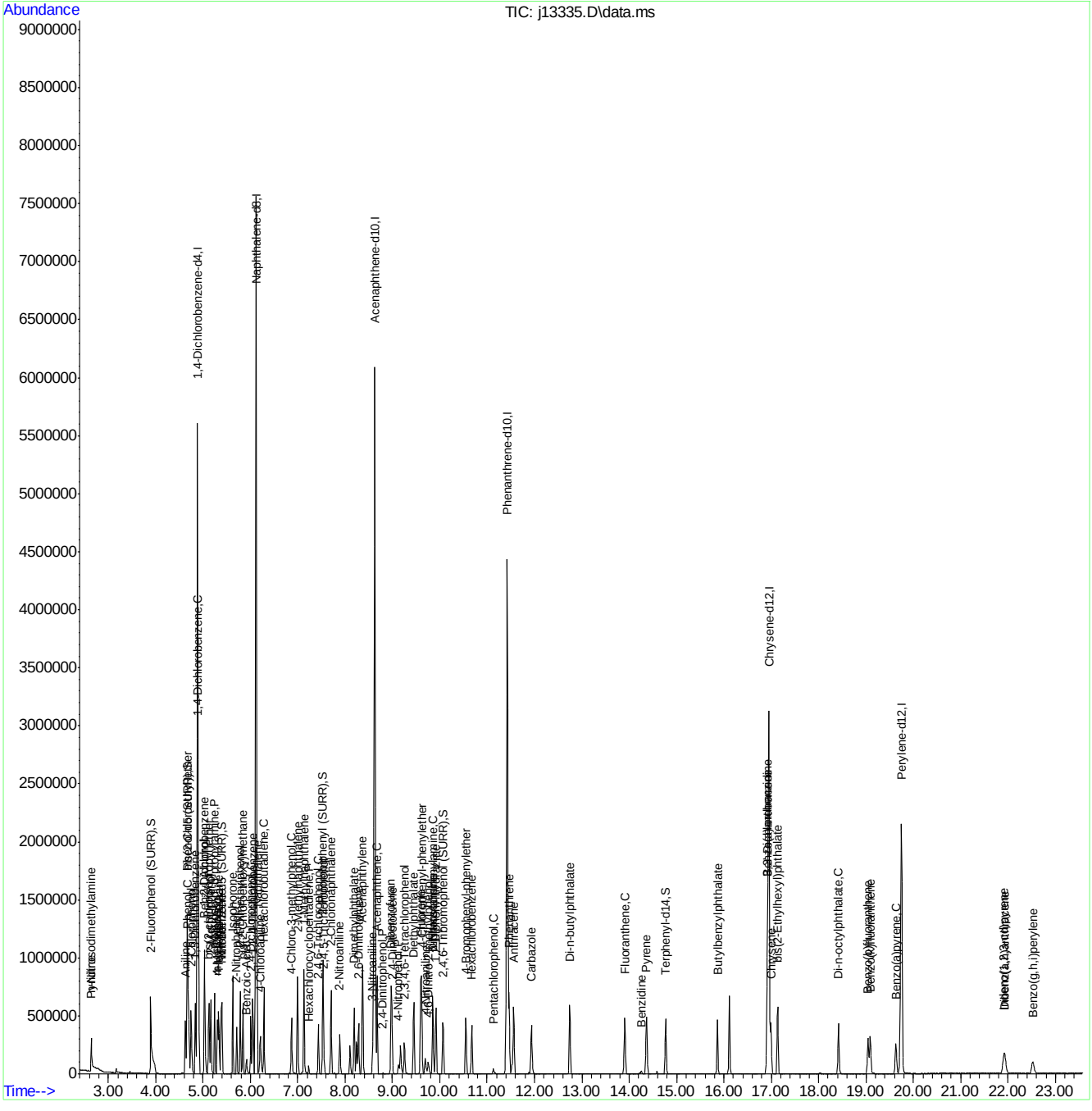
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 T39314

Quantitation Report (Qedit)

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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
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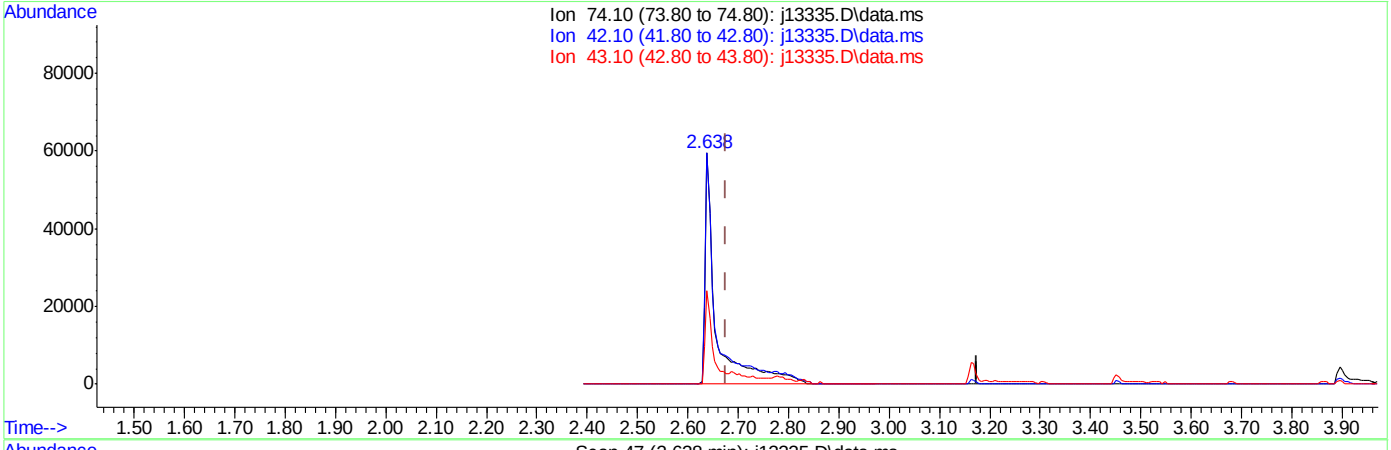

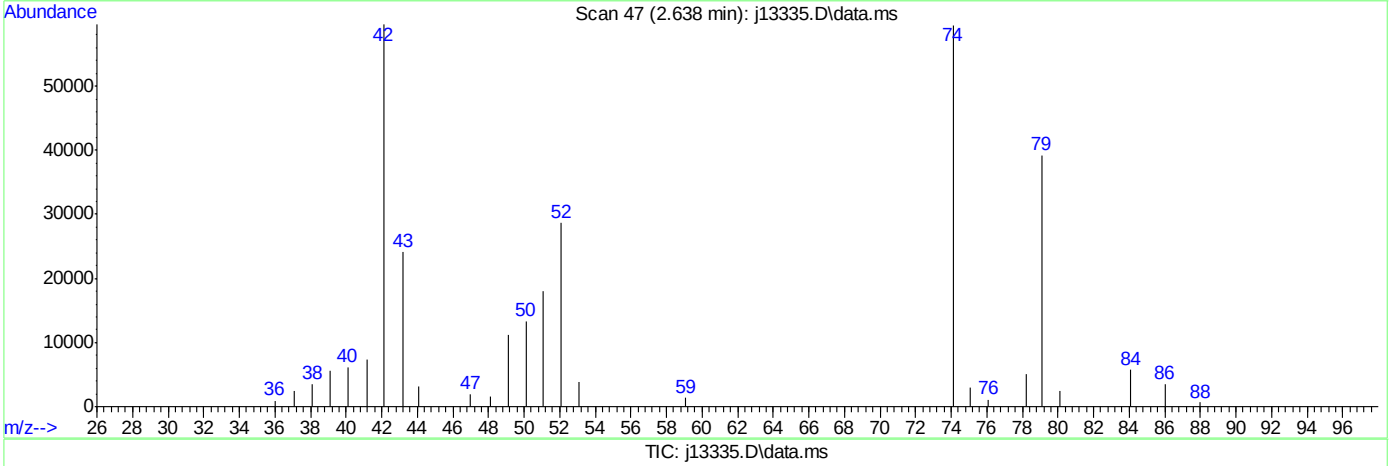

TIC: j13335.D\data.ms

(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
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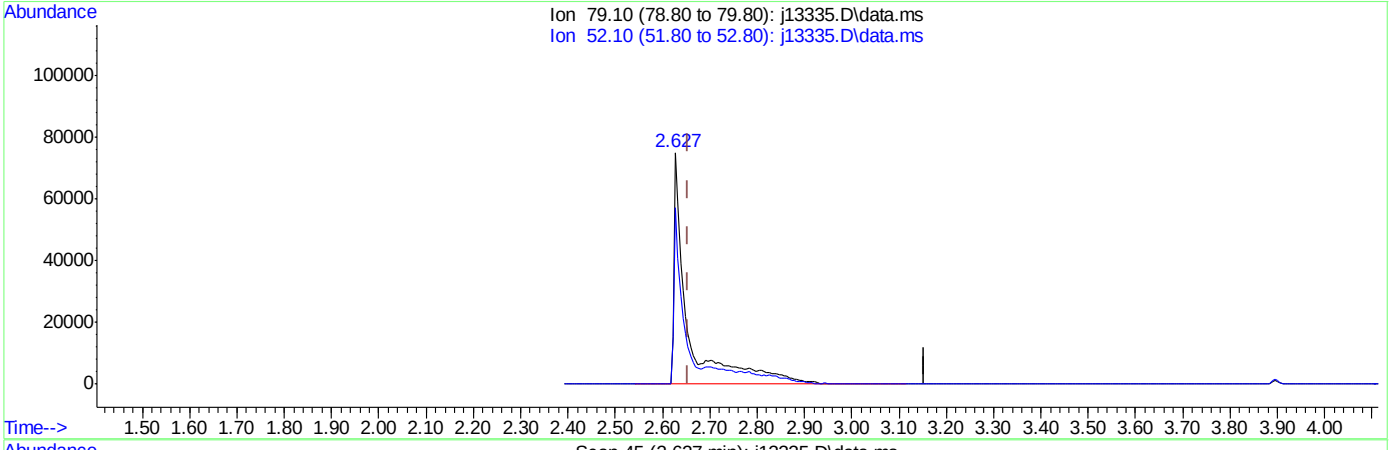
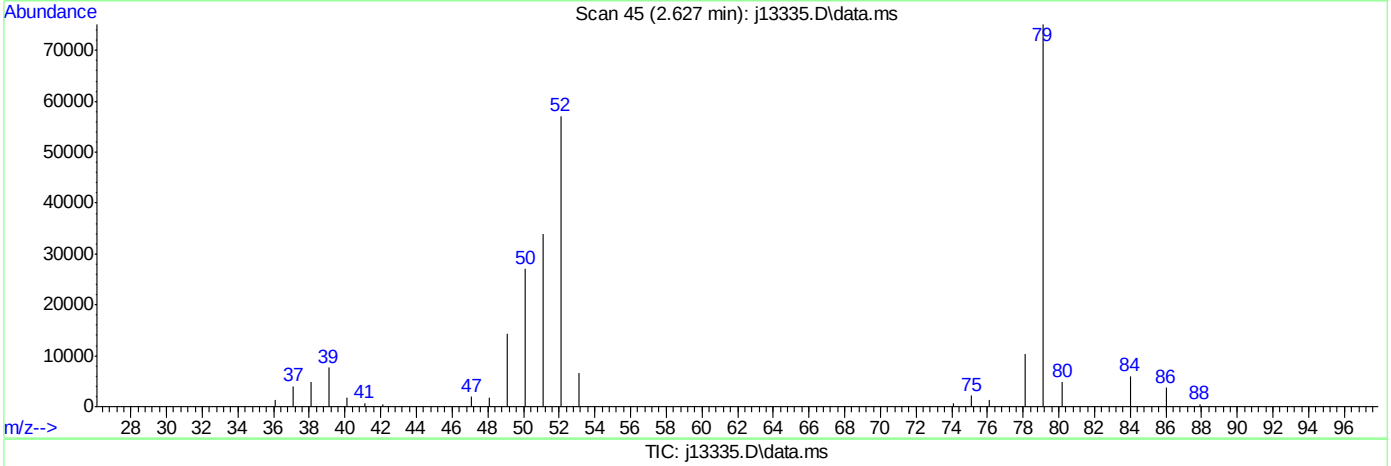




(3) Pyridine

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

8.6.30
8

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

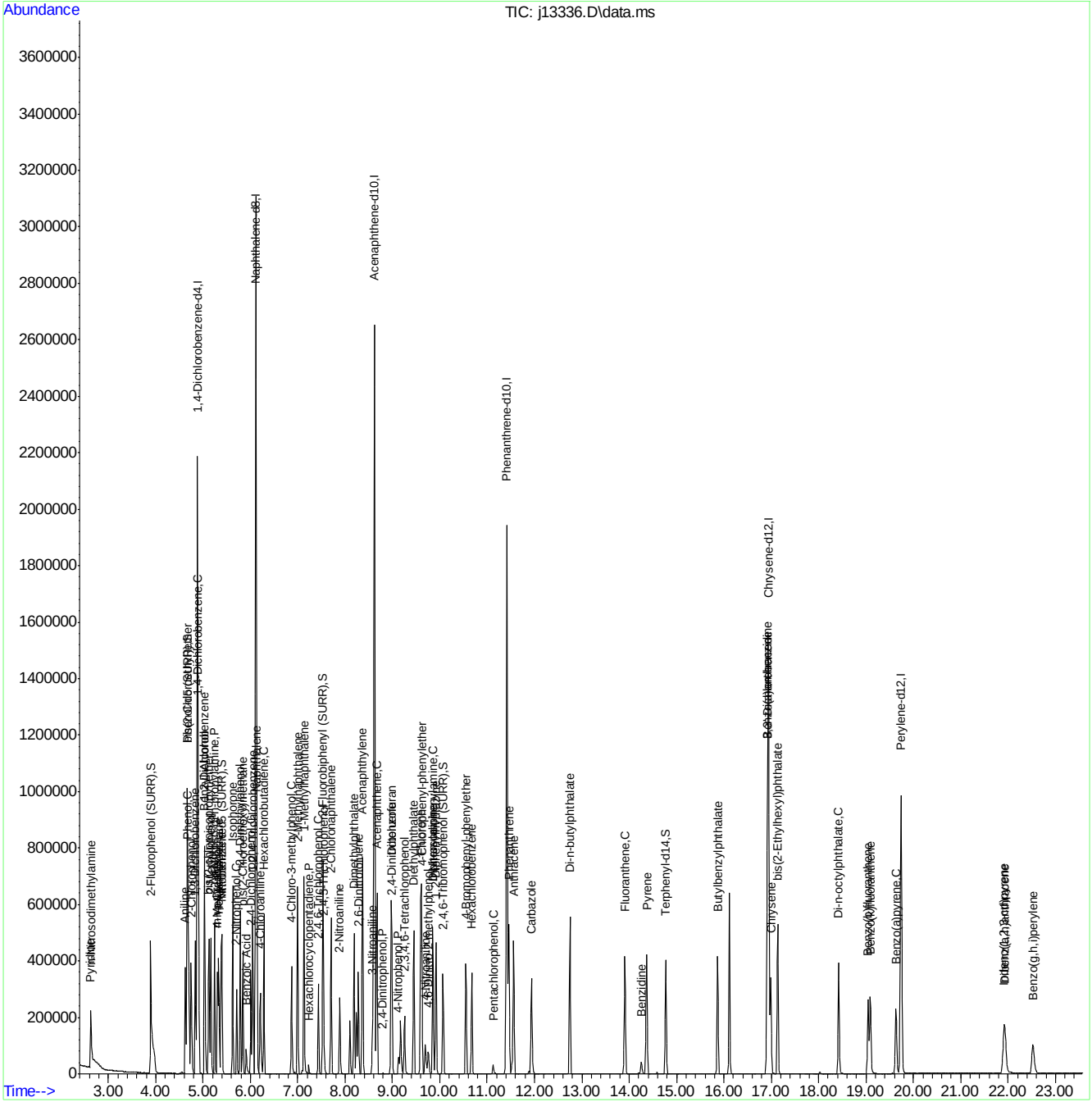
8.6.30

8

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 T39314

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On    : 23 Sep 2009  12:23 pm
Operator  : sheilac
Sample    : ic615-10
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration
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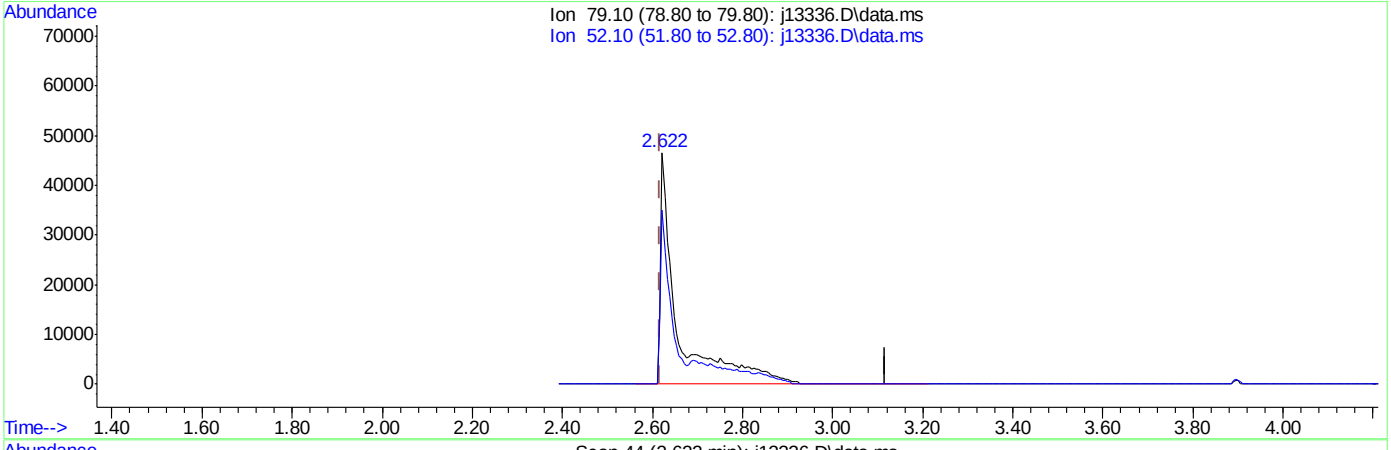
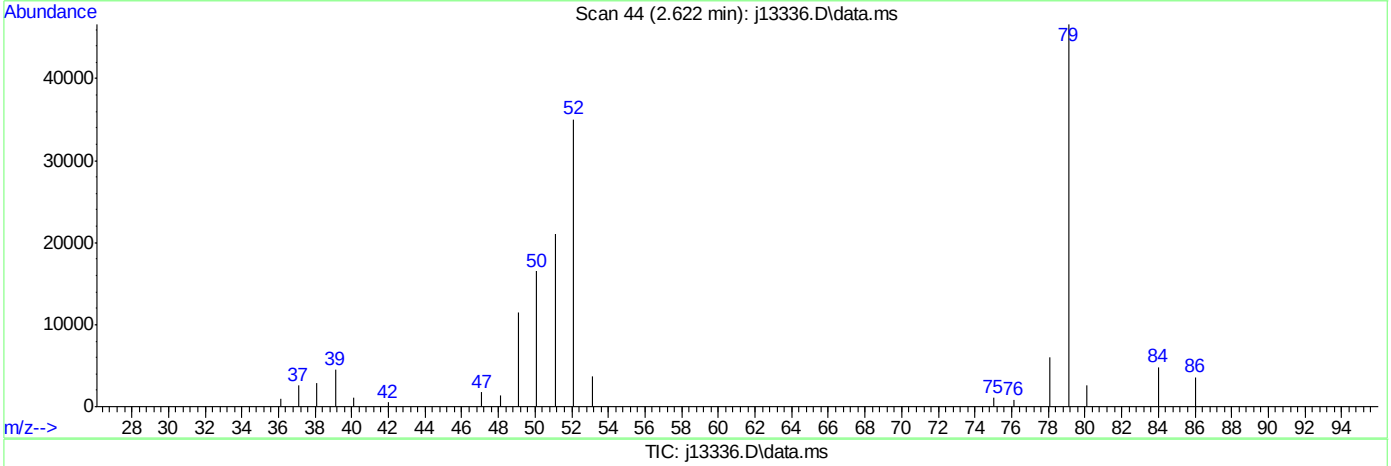




(3) Pyridine

2.622min (+0.005) 7.89ug/ml m

response 120863

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	576826	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	2141894	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	1134750	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1652005	40.00	ug/ml	0.01
71) Chrysene-d12	16.946	240	1183011	40.00	ug/ml	0.00
80) Perylene-d12	19.743	264	760056	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.884	112	882461	44.49	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 110		Recovery = 44.49%			
5) Phenol-d5 (SURR)	4.655	99	1148563	46.01	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 114		Recovery = 46.01%			
21) Nitrobenzene-d5 (SURR)	5.387	82	552027	22.72	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 45.44%			
40) 2-Fluorobiphenyl (SURR)	7.532	172	1081356	23.22	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 46.44%			
62) 2,4,6-Tribromophenol (...	10.078	330	248590	43.92	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery = 43.92%			
74) Terphenyl-d14	14.780	244	715852	24.58	ug/ml	0.00
Spiked Amount 50.000	Range 46 - 136		Recovery = 49.16%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	244369	22.73	ug/ml	98
3) Pyridine	2.622	79	412969m	21.64	ug/ml	
6) Phenol	4.671	94	626171	23.17	ug/ml	98
7) Aniline	4.628	93	623162	23.53	ug/ml	97
8) bis(2-Chloroethyl)ether	4.671	93	610707	23.16	ug/ml	99
9) 2-Chlorophenol	4.745	128	471547	23.03	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	528572	22.74	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	566630	22.95	ug/ml	99
12) Benzyl Alcohol	5.029	108	327219	23.39	ug/ml	99
13) 1,2-Dichlorobenzene	5.029	146	526034	22.87	ug/ml	100
14) 2-Methylphenol	5.163	108	428457	23.37	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	790424	23.25	ug/ml	99
16) 4-Methylphenol	5.296	108	436035	23.17	ug/ml	99
17) m+p-Cresols	5.296	108	436035	23.17	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.254	70	408001	23.19	ug/ml	100
19) Hexachloroethane	5.334	117	205708	22.81	ug/ml	99
22) Nitrobenzene	5.403	77	547705	22.89	ug/ml	99
23) Isophorone	5.639	82	1004753	22.84	ug/ml	99
24) 2-Nitrophenol	5.714	139	235096	23.10	ug/ml	98
25) 2,4-Dimethylphenol	5.788	122	401465	22.33	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	550999	22.89	ug/ml	100
27) Benzoic Acid	5.954	105	188007	25.35	ug/ml	97
28) 2,4-Dichlorophenol	6.002	162	345112	22.87	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.056	180	422800	22.70	ug/ml	99
30) Naphthalene	6.141	128	1408745	22.77	ug/ml	100
31) 4-Chloroaniline	6.211	127	415356	20.35	ug/ml	96
32) Hexachlorobutadiene	6.286	225	266684	22.66	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	391494	22.87	ug/ml	100
34) 2-Methylnaphthalene	7.003	142	856183	22.88	ug/ml	100
35) 1-Methylnaphthalene	7.136	142	893157	22.78	ug/ml	100
37) Hexachlorocyclopentadiene	7.233	237	80435	26.64	ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	227827	23.11	ug/ml	99
39) 2,4,5-Trichlorophenol	7.532	196	248665	23.88	ug/ml	98
41) 2-Chloronaphthalene	7.709	162	776730	23.08	ug/ml	100
42) 2-Nitroaniline	7.896	65	270784	23.43	ug/ml	99
43) Dimethylphthalate	8.211	163	944794	22.66	ug/ml	100
44) Acenaphthylene	8.377	152	1345047	23.19	ug/ml	100
45) 2,6-Dinitrotoluene	8.297	165	216563	22.77	ug/ml	87
46) 3-Nitroaniline	8.596	138	157782	20.34	ug/ml	95
47) Acenaphthene	8.682	154	779169	23.02	ug/ml	100
48) 2,4-Dinitrophenol	8.784	184	40826	26.20	ug/ml	95
49) 4-Nitrophenol	9.105	65	108283	22.59	ug/ml	97
50) Dibenzofuran	8.982	168	1101332	22.97	ug/ml	100
51) 2,4-Dinitrotoluene	9.003	165	265741	22.98	ug/ml#	70
52) 2,3,4,6-Tetrachlorophenol	9.254	232	183758	23.51	ug/ml	99
53) Diethylphthalate	9.468	149	967081	22.55	ug/ml	100
54) Fluorene	9.607	166	941580	22.73	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.623	204	451961	22.68	ug/ml	100
56) 4-Nitroaniline	9.720	138	145753m	21.98	ug/ml	
58) 1,2-Diphenylhydrazine	9.928	77	1001926	22.77	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.768	198	100756	21.76	ug/ml	97
60) Diphenylamine	9.869	169	733939	22.78	ug/ml	100
61) n-Nitrosodiphenylamine	9.869	169	733939	22.78	ug/ml	100
63) 4-Bromophenyl-phenylether	10.559	248	247018	22.61	ug/ml	100
64) Hexachlorobenzene	10.682	284	271309	22.58	ug/ml	100
65) Pentachlorophenol	11.126	266	73730	18.36	ug/ml	98
66) Phenanthrene	11.469	178	1179677	22.59	ug/ml	100
67) Anthracene	11.570	178	1130479	22.45	ug/ml	100
68) Carbazole	11.939	167	864484	21.16	ug/ml	99
69) Di-n-butylphthalate	12.752	149	1423397	22.31	ug/ml	100
70) Fluoranthene	13.913	202	1067679	22.08	ug/ml	100
72) Benzidine	14.261	184	87648	9.47	ug/ml#	98
73) Pyrene	14.373	202	1088938	24.96	ug/ml	100
75) Butylbenzylphthalate	15.871	149	485737	24.22	ug/ml	99
76) Benzo(a)anthracene	16.924	228	812974	22.74	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.930	252	138669	16.76	ug/ml	96
78) Chrysene	16.994	228	708906	22.98	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.138	149	651935	24.03	ug/ml	100
81) Di-n-octylphthalate	18.427	149	896856	24.26	ug/ml#	100
82) Benzo(b)fluoranthene	19.053	252	582784	22.73	ug/ml	100
83) Benzo(k)fluoranthene	19.101	252	575526	22.94	ug/ml	100
84) Benzo(a)pyrene	19.636	252	510132	22.54	ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.915	276	456792	22.49	ug/ml	100
86) Dibenz(a,h)anthracene	21.947	278	371245	22.44	ug/ml	99
87) Benzo(g,h,i)perylene	22.535	276	360667	20.63	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

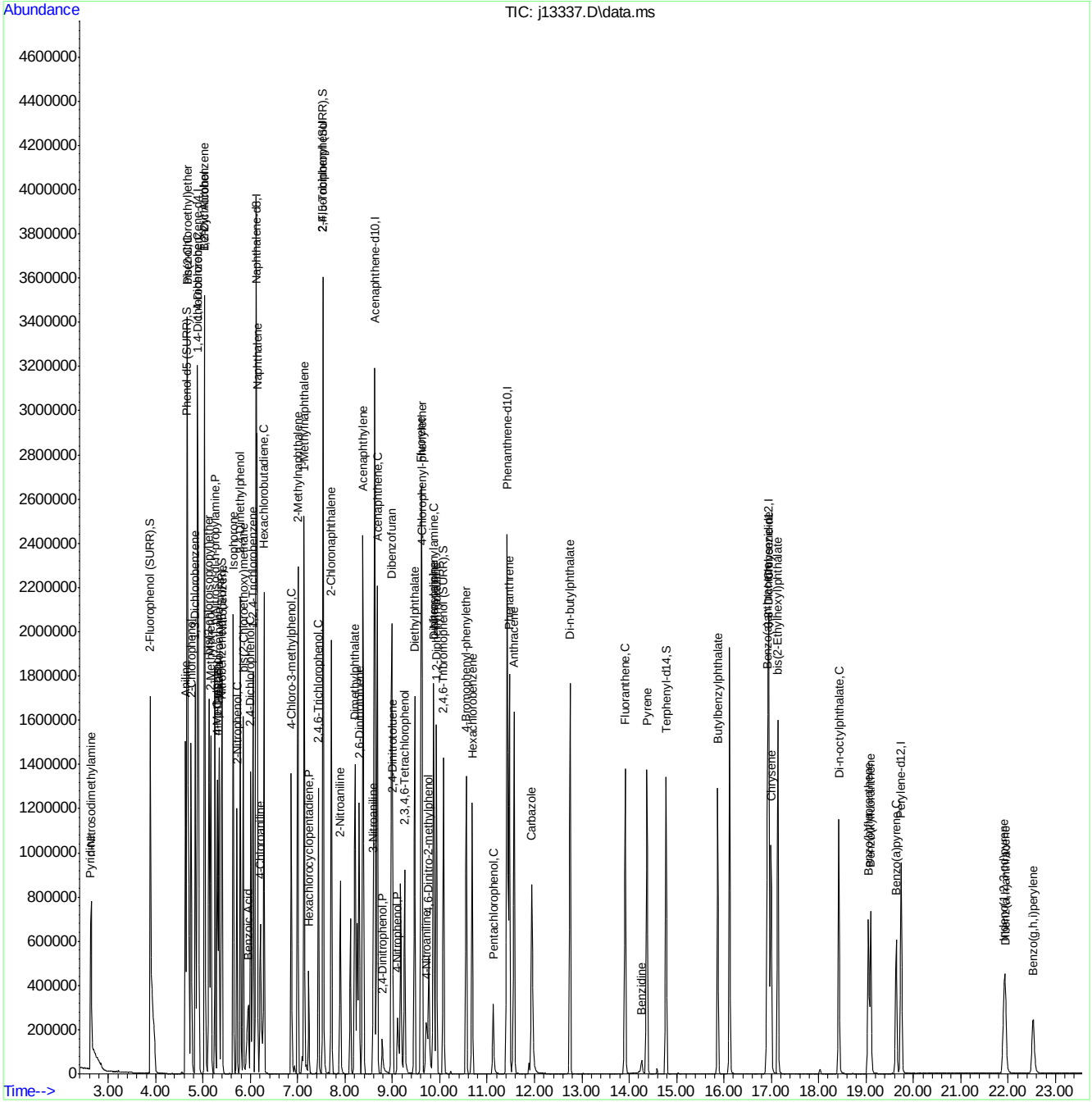
8.6.31

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

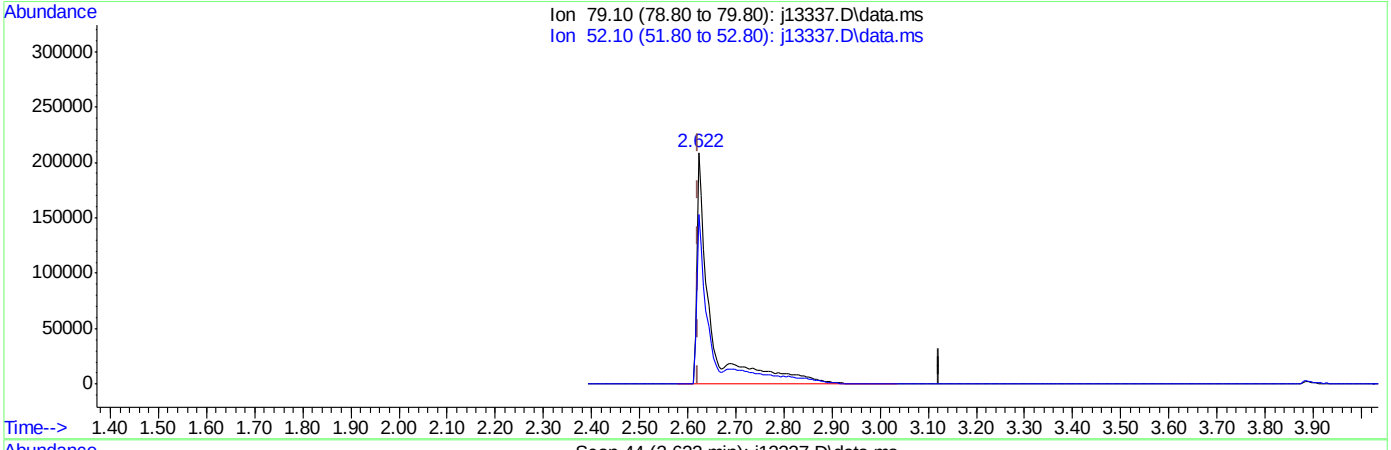


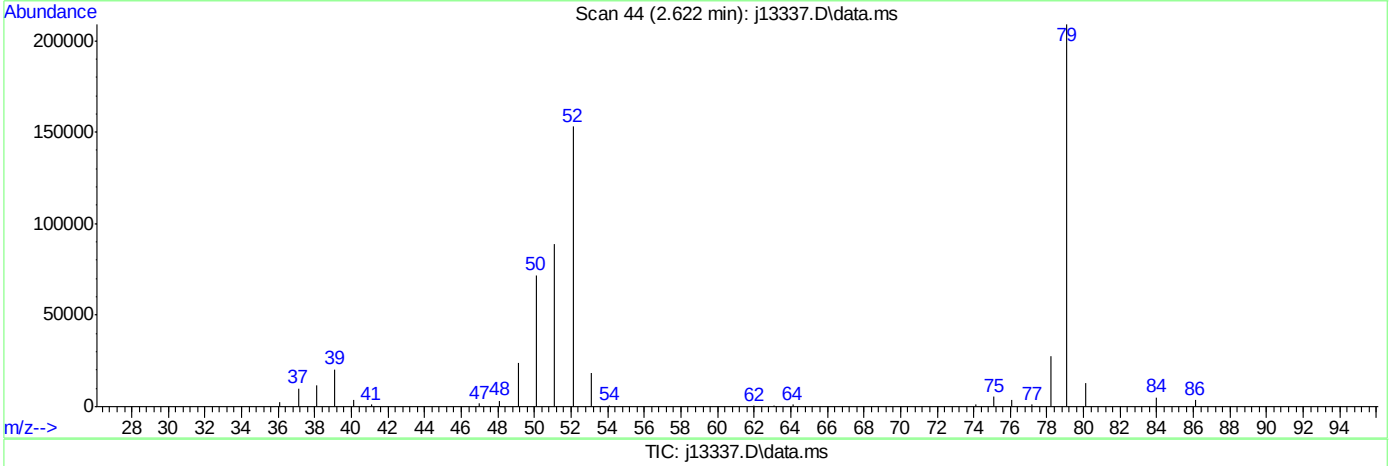
ACCUTEST Laboratories T39314

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

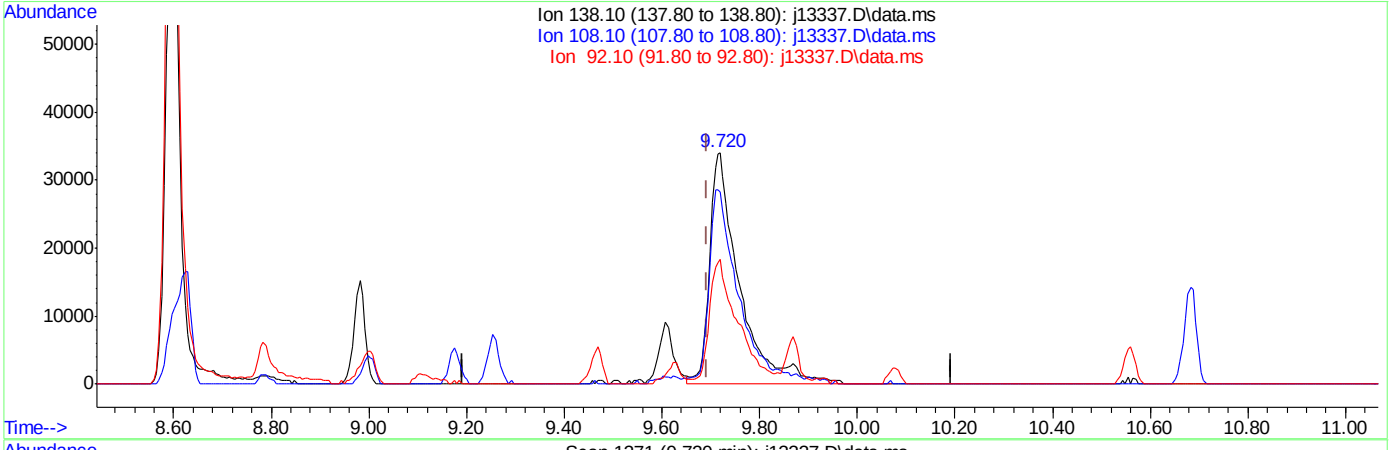
response 412969

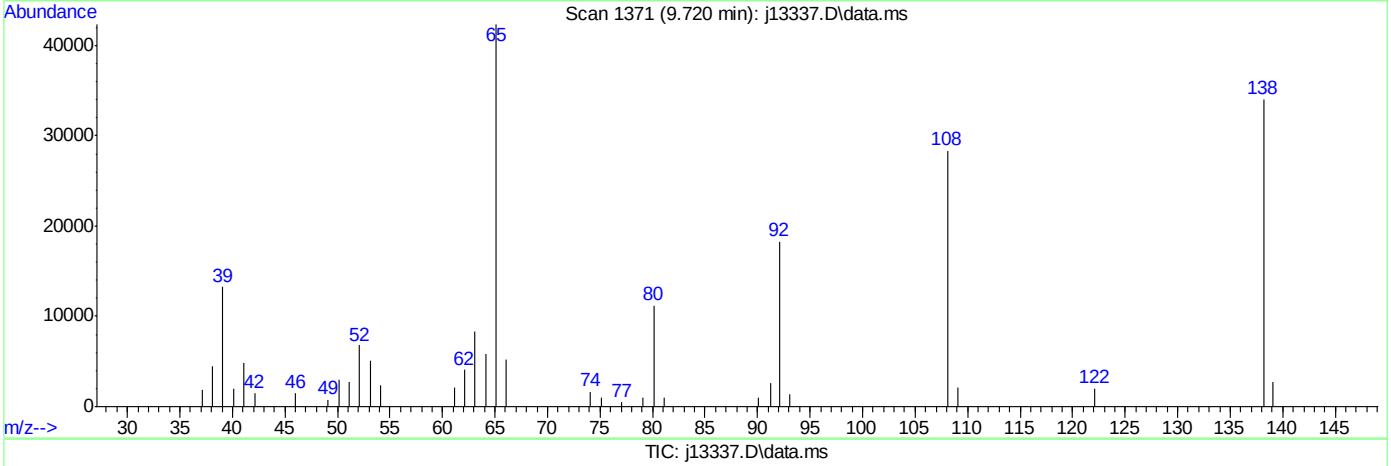
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	48.26
0.00	0.00	0.00
0.00	0.00	0.00

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

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	653336	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2372869	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.645	164	1357741	40.00	ug/ml	0.02
57) Phenanthrene-d10	11.447	188	1892973	40.00	ug/ml	0.02
71) Chrysene-d12	16.978	240	1520338	40.00	ug/ml	0.03
80) Perylene-d12	19.759	264	820076	40.00	ug/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.885	112	4167420	189.67	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 189.67%#			
5) Phenol-d5 (SURR)	4.676	99	4881596	175.46	ug/ml	0.02
Spiked Amount 100.000	Range 23 - 114		Recovery = 175.46%#			
21) Nitrobenzene-d5 (SURR)	5.414	82	2509457	94.94	ug/ml	0.03
Spiked Amount 50.000	Range 36 - 126		Recovery = 189.88%#			
40) 2-Fluorobiphenyl (SURR)	7.559	172	5603200	102.01	ug/ml	0.03
Spiked Amount 50.000	Range 34 - 132		Recovery = 204.02%#			
62) 2,4,6-Tribromophenol (...	10.132	330	1554070	253.77	ug/ml	0.05
Spiked Amount 100.000	Range 33 - 138		Recovery = 253.77%#			
74) Terphenyl-d14	14.806	244	3757901	100.75	ug/ml	0.03
Spiked Amount 50.000	Range 46 - 136		Recovery = 201.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.654	74	1089484	91.14	ug/ml	98
3) Pyridine	2.638	79	1929938	91.77	ug/ml#	63
6) Phenol	4.692	94	2613323	86.65	ug/ml	96
7) Aniline	4.644	93	2814143	94.92	ug/ml	99
8) bis(2-Chloroethyl)ether	4.687	93	2557135	86.89	ug/ml	92
9) 2-Chlorophenol	4.756	128	2175701	95.32	ug/ml	98
10) 1,3-Dichlorobenzene	4.847	146	2473298	95.66	ug/ml	99
11) 1,4-Dichlorobenzene	4.906	146	2669427	97.03	ug/ml	100
12) Benzyl Alcohol	5.067	108	1544241	98.72	ug/ml	97
13) 1,2-Dichlorobenzene	5.045	146	2556187	99.82	ug/ml	100
14) 2-Methylphenol	5.168	108	1965583	95.92	ug/ml	99
15) bis(2-chloroisopropyl)...	5.136	45	3208339	84.50	ug/ml	96
16) 4-Methylphenol	5.323	108	2183458	103.94	ug/ml	99
17) m+p-Cresols	5.323	108	2183458	103.94	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.297	70	1879450	95.71	ug/ml	99
19) Hexachloroethane	5.339	117	995186	99.15	ug/ml	95
22) Nitrobenzene	5.436	77	2459865	94.38	ug/ml	97
23) Isophorone	5.676	82	4520656m	94.39	ug/ml	
24) 2-Nitrophenol	5.735	139	1277524	115.04	ug/ml	97
25) 2,4-Dimethylphenol	5.821	122	1934983	99.26	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.874	93	2525016	96.31	ug/ml	100
27) Benzoic Acid	6.061	105	1116577m	135.53	ug/ml	
28) 2,4-Dichlorophenol	6.024	162	1812719	110.31	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.067	180	2095633	103.48	ug/ml	99
30) Naphthalene	6.163	128	6697331	99.49	ug/ml	100
31) 4-Chloroaniline	6.233	127	2374572	109.09	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1323992	103.47	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.874	107	2026122	108.70 ug/ml	100
34) 2-Methylnaphthalene	7.019	142	4165107	102.22 ug/ml	100
35) 1-Methylnaphthalene	7.163	142	4360809	102.21 ug/ml	100
37) Hexachlorocyclopentadiene	7.243	237	676952	184.93 ug/ml	100
38) 2,4,6-Trichlorophenol	7.457	196	1236425	106.41 ug/ml	99
39) 2,4,5-Trichlorophenol	7.543	196	1422460	115.19 ug/ml	99
41) 2-Chloronaphthalene	7.736	162	3944428	99.50 ug/ml	100
42) 2-Nitroaniline	7.933	65	1259120	92.21 ug/ml	98
43) Dimethylphthalate	8.276	163	4532188	92.59 ug/ml	100
44) Acenaphthylene	8.415	152	6430718	94.03 ug/ml	100
45) 2,6-Dinitrotoluene	8.361	165	1103879	98.77 ug/ml	97
46) 3-Nitroaniline	8.656	138	1012309	113.28 ug/ml	96
47) Acenaphthene	8.720	154	3855974	96.74 ug/ml	100
48) 2,4-Dinitrophenol	8.832	184	412735	219.26 ug/ml	95
49) 4-Nitrophenol	9.110	65	666392m	118.49 ug/ml	
50) Dibenzofuran	9.019	168	5588416	99.03 ug/ml	100
51) 2,4-Dinitrotoluene	9.067	165	1316685	96.72 ug/ml	84
52) 2,3,4,6-Tetrachlorophenol	9.287	232	1049502	113.59 ug/ml	98
53) Diethylphthalate	9.538	149	4800558	95.44 ug/ml	100
54) Fluorene	9.650	166	5021357	103.19 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.661	204	2585640	110.49 ug/ml	96
56) 4-Nitroaniline	9.827	138	879310m	116.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.971	77	5276014	106.84 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.864	198	653734	99.33 ug/ml	93
60) Diphenylamine	9.934	169	3783863	104.15 ug/ml	98
61) n-Nitrosodiphenylamine	9.934	169	3783863	104.15 ug/ml	98
63) 4-Bromophenyl-phenylether	10.592	248	1291235	105.37 ug/ml	99
64) Hexachlorobenzene	10.725	284	1384001	102.13 ug/ml	98
65) Pentachlorophenol	11.148	266	559890	138.85 ug/ml	97
66) Phenanthrene	11.512	178	5978928	101.64 ug/ml	100
67) Anthracene	11.613	178	5766161	101.94 ug/ml	99
68) Carbazole	11.982	167	4609994	101.43 ug/ml	99
69) Di-n-butylphthalate	12.785	149	7042542	97.86 ug/ml	100
70) Fluoranthene	13.951	202	5295633	97.25 ug/ml	99
72) Benzidine	14.288	184	1570551	150.82 ug/ml	100
73) Pyrene	14.416	202	5283007	94.25 ug/ml	100
75) Butylbenzylphthalate	15.898	149	2379700	92.92 ug/ml	98
76) Benzo(a)anthracene	16.957	228	4435422	98.32 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.957	252	1267345	127.63 ug/ml	98
78) Chrysene	17.042	228	3567591m	91.47 ug/ml	
79) bis(2-Ethylhexyl)phtha...	17.160	149	3269116	94.49 ug/ml	99
81) Di-n-octylphthalate	18.449	149	4536280	114.39 ug/ml	100
82) Benzo(b)fluoranthene	19.091	252	3051122	112.35 ug/ml	99
83) Benzo(k)fluoranthene	19.144	252	2510236m	94.28 ug/ml	
84) Benzo(a)pyrene	19.674	252	2521059	105.32 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	21.952	276	1945284	90.60 ug/ml	99
86) Dibenz(a,h)anthracene	21.984	278	1676636	95.90 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1360221	80.39 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

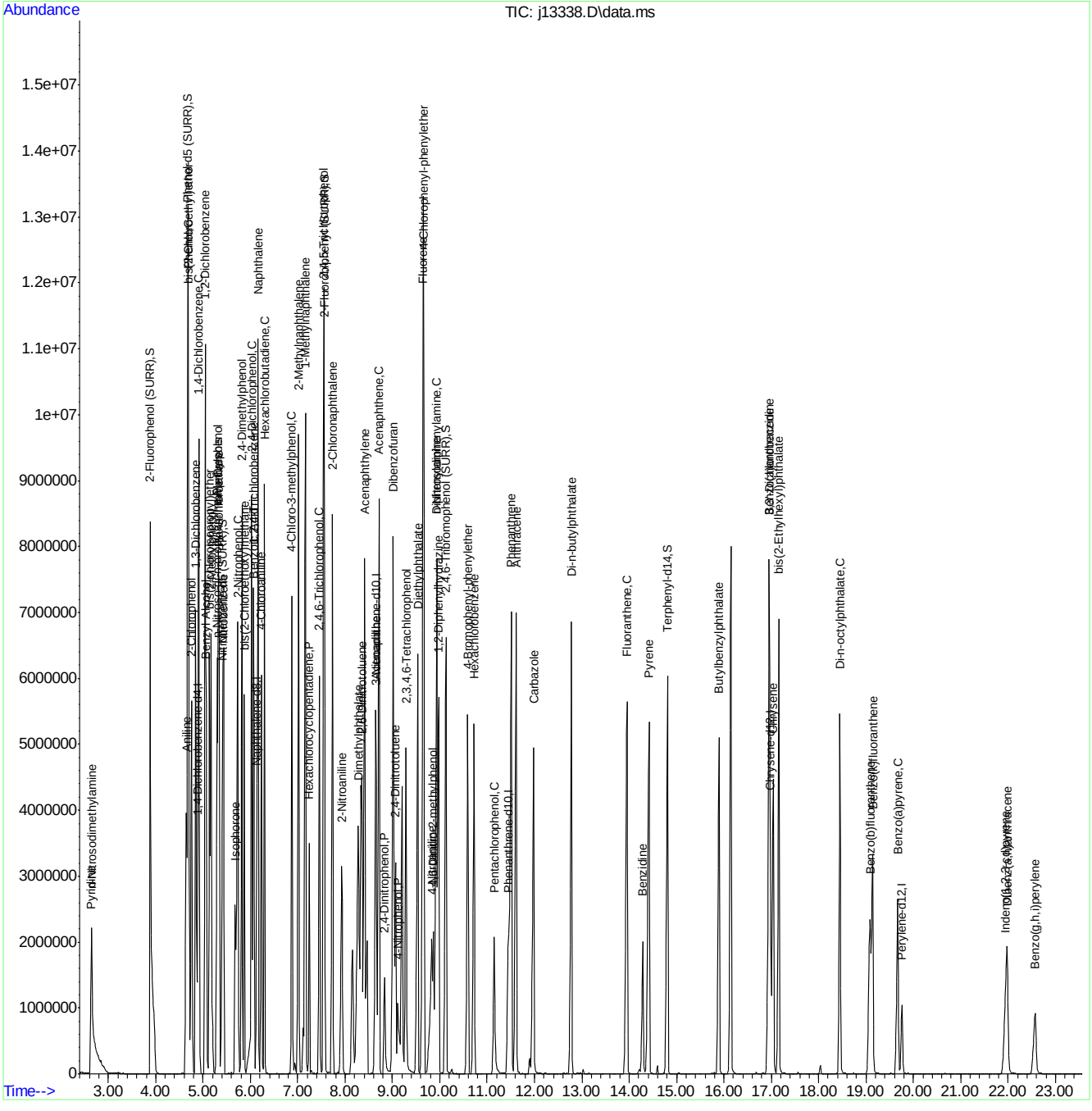
8.6.32

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

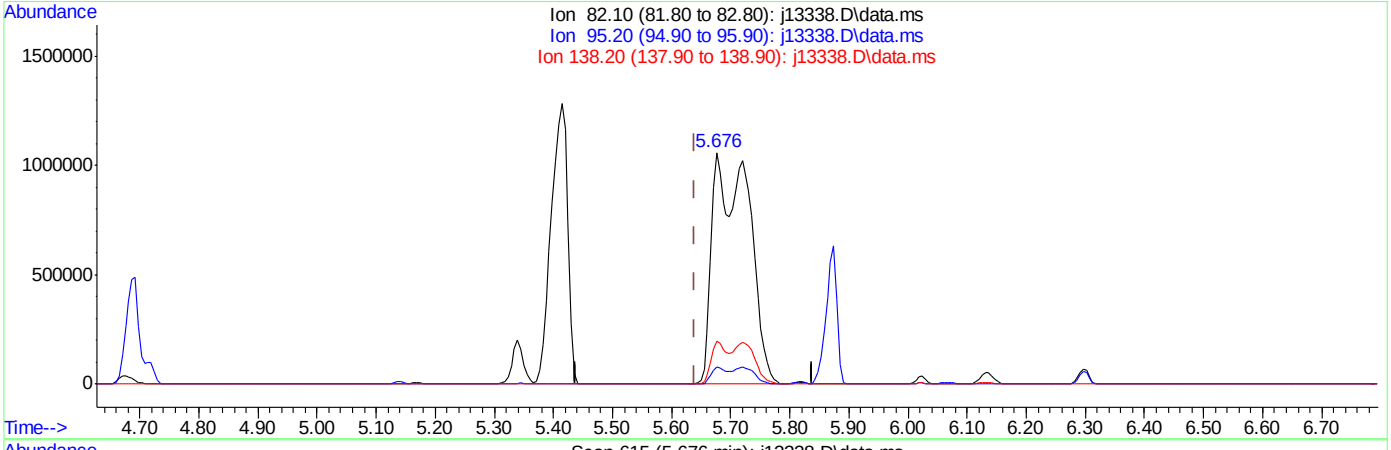


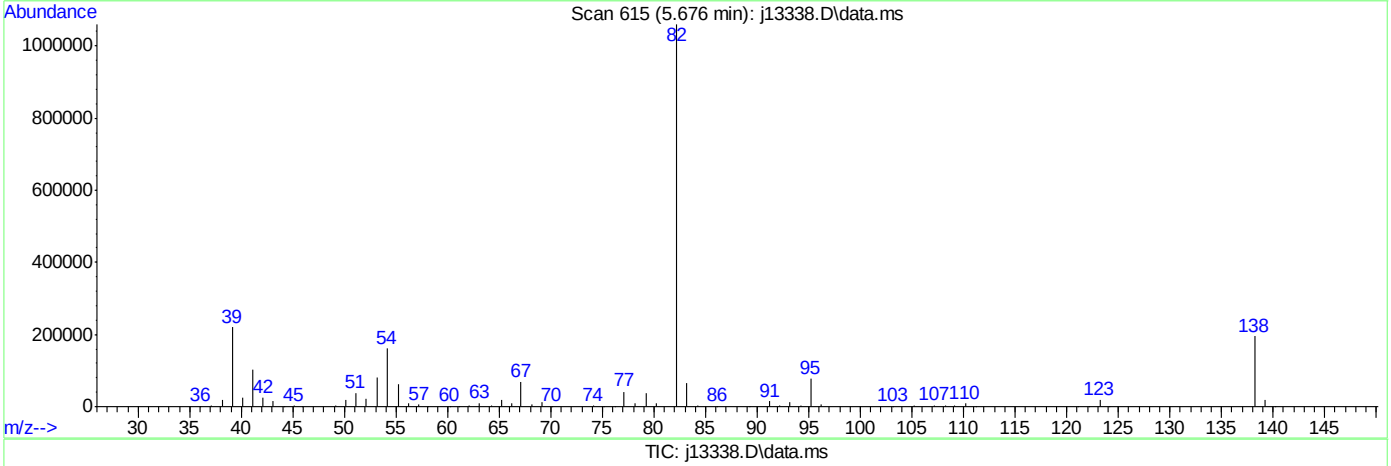
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(23) Isophorone

5.676min (+0.037) 94.39ug/ml m

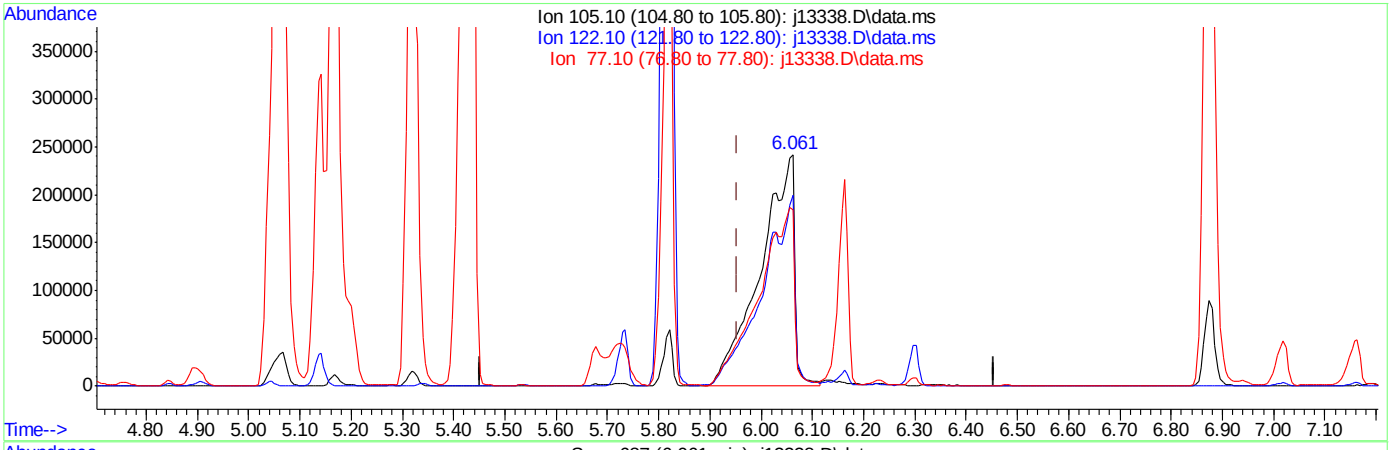
response 4520656

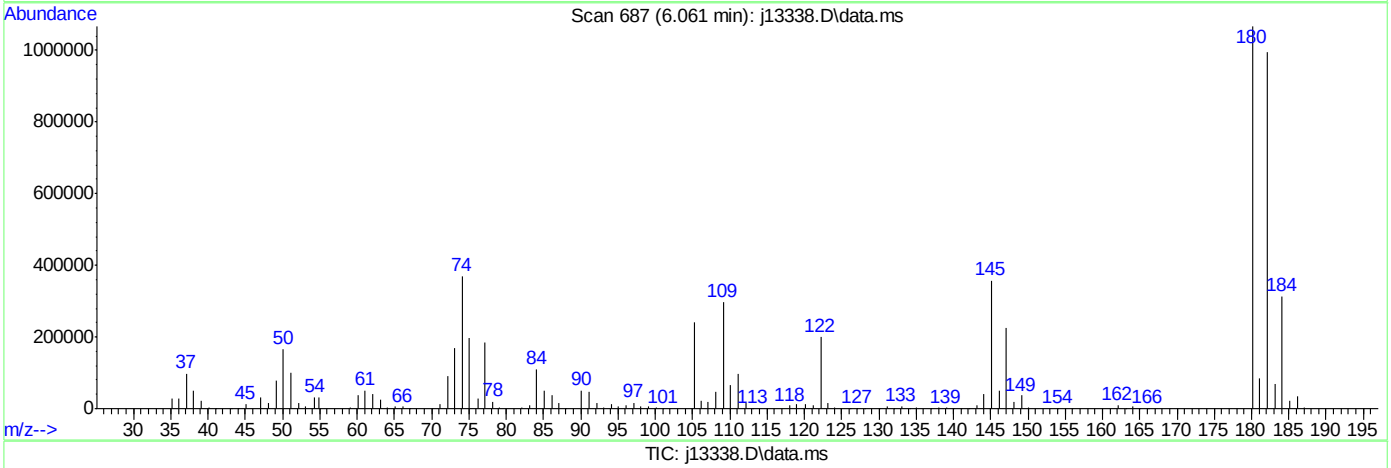
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	3.21
138.20	18.50	8.03
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(27) Benzoic Acid

6.061min (+0.107) 135.53ug/ml m

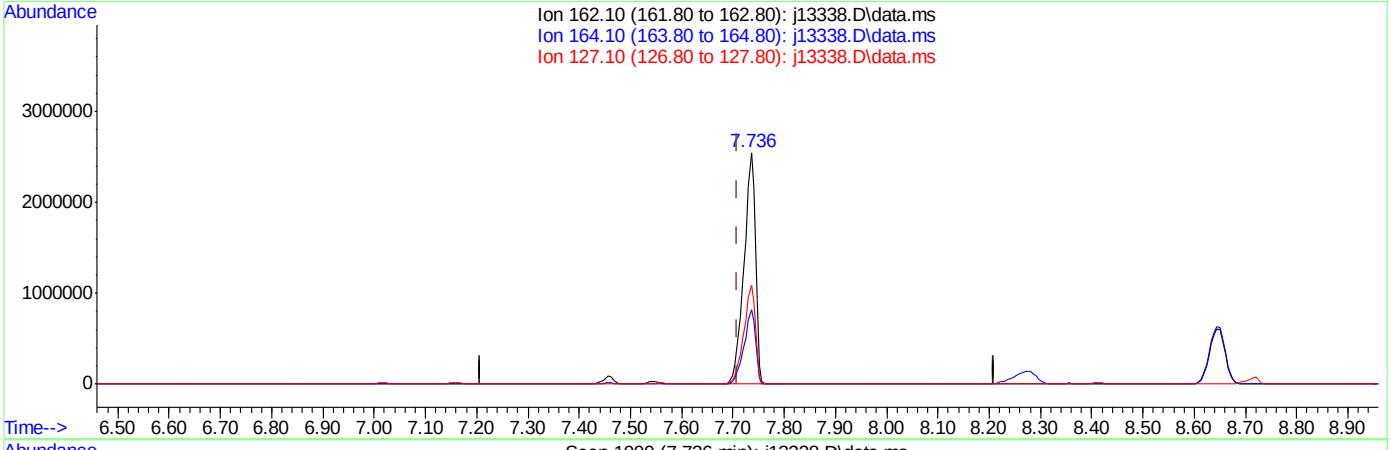
response 1116577

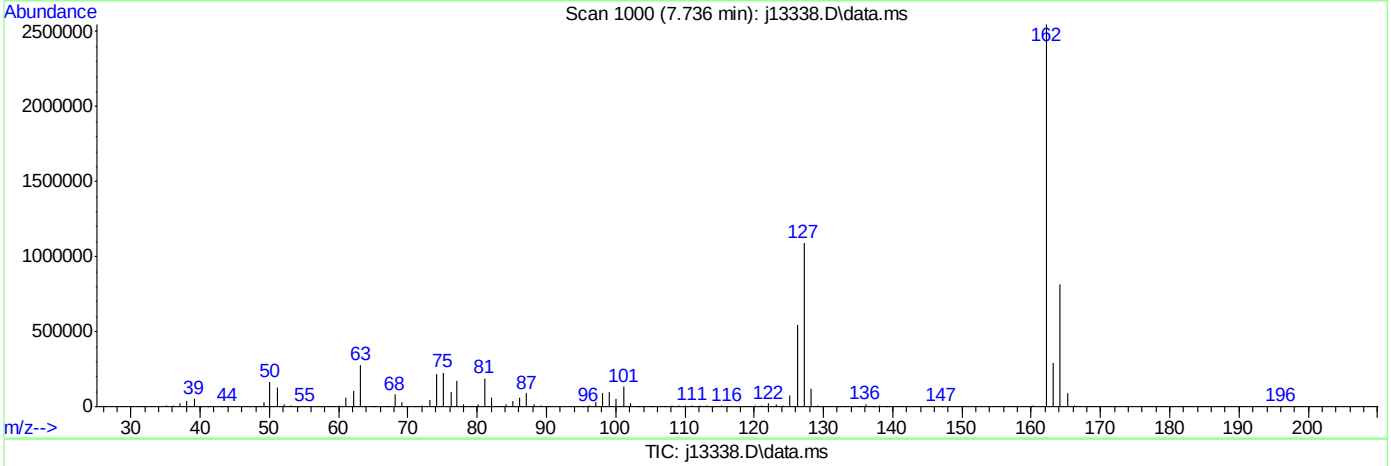
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	53.58#
77.10	81.90	55.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(41) 2-Chloronaphthalene

7.736min (+0.027) 99.50ug/ml

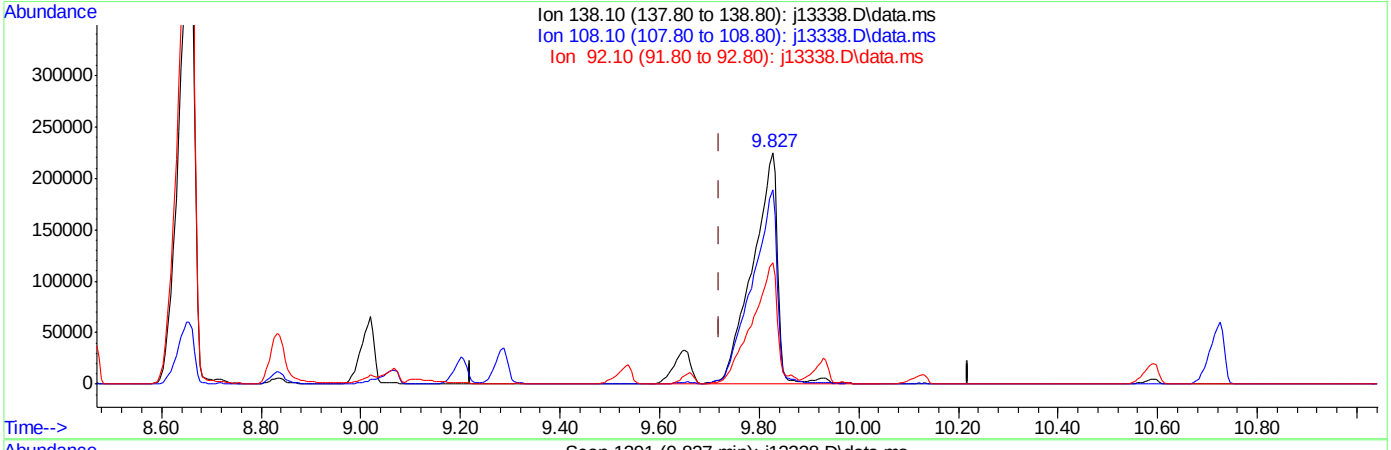
response 3944428

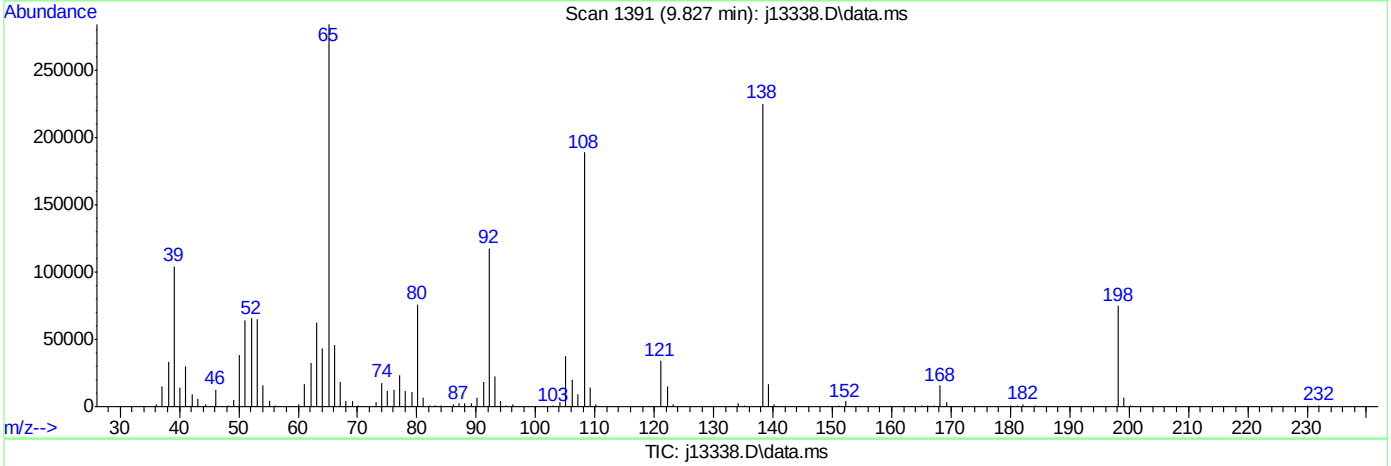
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.10
127.10	42.60	42.92
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(56) 4-Nitroaniline

9.827min (+0.107) 116.71ug/ml m

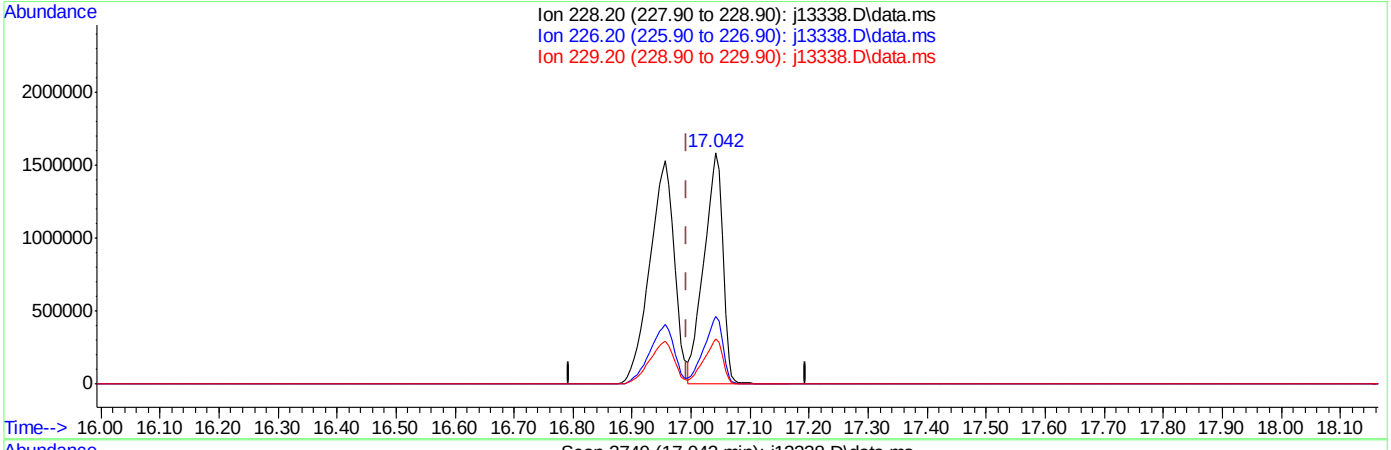
response 879310

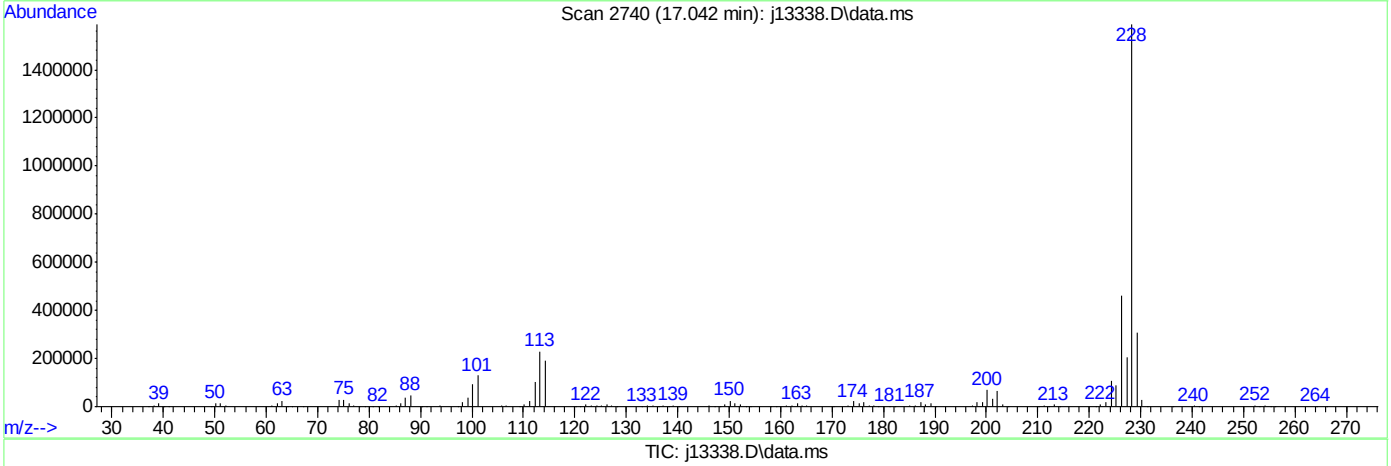
Ion	Exp%	Act%
138.10	100	100
108.10	87.60	75.04
92.10	53.80	48.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(78) Chrysene

17.042min (+0.048) 91.47ug/ml m

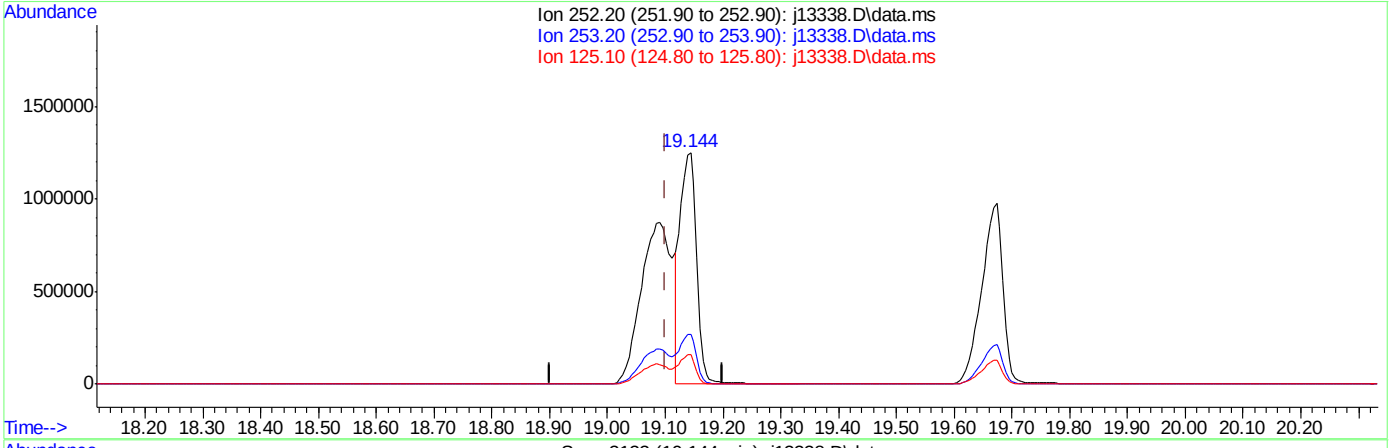
response 3567591

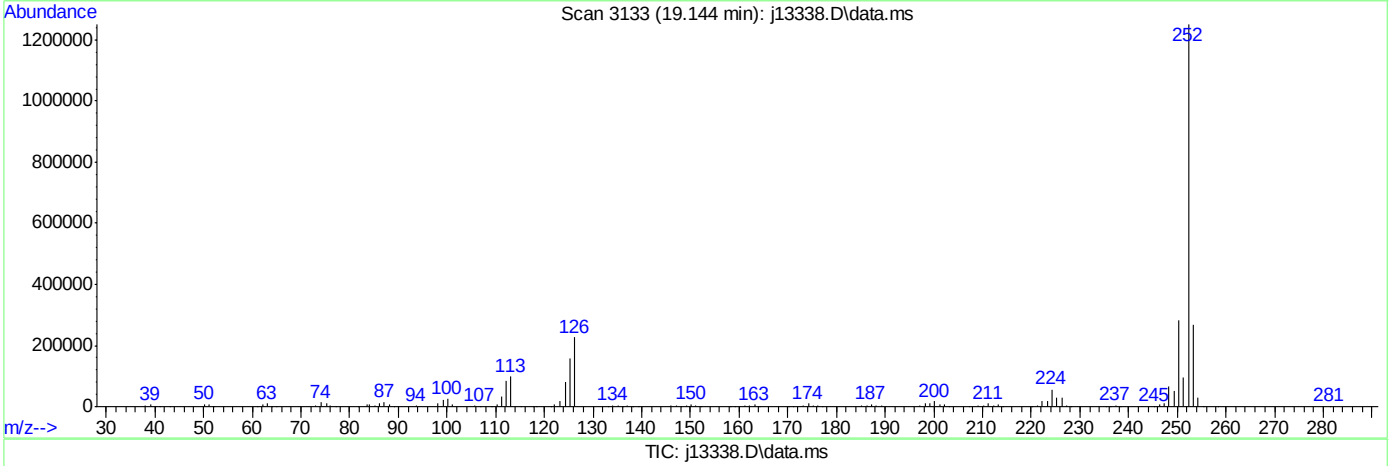
Ion	Exp%	Act%
228.20	100	100
226.20	29.20	33.25
229.20	19.70	24.33
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(83) Benzo(k)fluoranthene

19.144min (+0.043) 94.28ug/ml m

response 2510236

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	26.74
125.10	11.90	14.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	585383	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2197556	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.650	164	1270566	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.453	188	1807408	40.00	ug/ml	0.00
71) Chrysene-d12	16.983	240	1521064	40.00	ug/ml	0.00
80) Perylene-d12	19.765	264	740179	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.879	112	4409261	225.92	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery	= 225.92%#		
5) Phenol-d5 (SURR)	4.676	99	5212509	213.46	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery	= 213.46%#		
21) Nitrobenzene-d5 (SURR)	5.419	82	2797192	115.24	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery	= 230.48%#		
40) 2-Fluorobiphenyl (SURR)	7.570	172	6418422	124.45	ug/ml	0.01
Spiked Amount 50.000	Range 34 - 132		Recovery	= 248.90%#		
62) 2,4,6-Tribromophenol (...	10.142	330	1883746	308.35	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery	= 308.35%#		
74) Terphenyl-d14	14.817	244	4531611	121.28	ug/ml	0.01
Spiked Amount 50.000	Range 46 - 136		Recovery	= 242.56%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	1149377	108.92	ug/ml	98
3) Pyridine	2.633	79	2081159m	111.98	ug/ml	
6) Phenol	4.692	94	2785905	105.44	ug/ml	95
7) Aniline	4.644	93	2984688	113.31	ug/ml	98
8) bis(2-Chloroethyl)ether	4.687	93	2850787	110.53	ug/ml	90
9) 2-Chlorophenol	4.756	128	2349467	115.79	ug/ml	98
10) 1,3-Dichlorobenzene	4.842	146	2641174	114.84	ug/ml	98
11) 1,4-Dichlorobenzene	4.906	146	2854845	116.40	ug/ml	99
12) Benzyl Alcohol	5.072	108	1711365	122.36	ug/ml	98
13) 1,2-Dichlorobenzene	5.045	146	2754757	120.10	ug/ml	99
14) 2-Methylphenol	5.168	108	2182154	119.66	ug/ml	99
15) bis(2-chloroisopropyl)...	5.141	45	3457638	104.33	ug/ml	93
16) 4-Methylphenol	5.323	108	2500507	131.99	ug/ml	98
17) m+p-Cresols	5.323	108	2500507	131.99	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.302	70	2129240	121.88	ug/ml	98
19) Hexachloroethane	5.339	117	1056894	117.69	ug/ml	91
22) Nitrobenzene	5.436	77	2726209	114.01	ug/ml	96
23) Isophorone	5.730	82	5091953m	115.88	ug/ml	
24) 2-Nitrophenol	5.735	139	1503939	142.66	ug/ml	94
25) 2,4-Dimethylphenol	5.826	122	2180346	120.92	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.879	93	2817207	116.74	ug/ml	100
27) Benzoic Acid	6.077	105	1368372m	169.32	ug/ml	
28) 2,4-Dichlorophenol	6.029	162	2084896	134.68	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.072	180	2385102	126.43	ug/ml	99
30) Naphthalene	6.168	128	7552352	121.24	ug/ml	99
31) 4-Chloroaniline	6.238	127	2754946	134.62	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1478219	124.02	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.880	107	2333812	133.26 ug/ml	99
34) 2-Methylnaphthalene	7.024	142	4720009	124.62 ug/ml	99
35) 1-Methylnaphthalene	7.168	142	4958699	125.03 ug/ml	100
37) Hexachlorocyclopentadiene	7.249	237	855974	218.89 ug/ml	99
38) 2,4,6-Trichlorophenol	7.463	196	1448963	131.85 ug/ml	99
39) 2,4,5-Trichlorophenol	7.548	196	1682622	142.02 ug/ml	99
41) 2-Chloronaphthalene	7.741	162	4554027	122.86 ug/ml	100
42) 2-Nitroaniline	7.944	65	1432831	113.61 ug/ml	96
43) Dimethylphthalate	8.286	163	5202999	115.01 ug/ml	100
44) Acenaphthylene	8.420	152	7463277	117.79 ug/ml	100
45) 2,6-Dinitrotoluene	8.372	165	1350009	129.35 ug/ml	97
46) 3-Nitroaniline	8.671	138	1154785	135.10 ug/ml	95
47) Acenaphthene	8.725	154	4465679	120.38 ug/ml	100
48) 2,4-Dinitrophenol	8.848	184	517414	245.02 ug/ml	94
49) 4-Nitrophenol	9.110	65	713297m	136.06 ug/ml	
50) Dibenzofuran	9.024	168	6506890	123.42 ug/ml	100
51) 2,4-Dinitrotoluene	9.078	165	1510372	119.21 ug/ml	86
52) 2,3,4,6-Tetrachlorophenol	9.292	232	1242751	140.55 ug/ml	98
53) Diethylphthalate	9.554	149	5565600	119.14 ug/ml	99
54) Fluorene	9.656	166	5785714	126.38 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.672	204	3055555	137.13 ug/ml	94
56) 4-Nitroaniline	9.854	138	961115m	135.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.982	77	6034221	126.54 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.880	198	796818	125.68 ug/ml	91
60) Diphenylamine	9.944	169	4513504	129.22 ug/ml	98
61) n-Nitrosodiphenylamine	9.944	169	4513504	129.22 ug/ml	98
63) 4-Bromophenyl-phenylether	10.597	248	1522169	128.94 ug/ml	98
64) Hexachlorobenzene	10.736	284	1625789	125.21 ug/ml	98
65) Pentachlorophenol	11.153	266	684175	164.90 ug/ml	98
66) Phenanthrene	11.517	178	6987134	124.07 ug/ml	100
67) Anthracene	11.624	178	6779599	125.13 ug/ml	100
68) Carbazole	11.988	167	5455544	125.41 ug/ml	100
69) Di-n-butylphthalate	12.790	149	8294083	121.14 ug/ml	100
70) Fluoranthene	13.961	202	6273920	121.23 ug/ml	100
72) Benzidine	14.298	184	2026372	194.50 ug/ml	100
73) Pyrene	14.421	202	6309398	113.59 ug/ml	100
75) Butylbenzylphthalate	15.903	149	2821959	111.45 ug/ml	97
76) Benzo(a)anthracene	16.962	228	5268693	117.06 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.967	252	1652656	159.03 ug/ml	98
78) Chrysene	17.053	228	4151967	107.94 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.165	149	3874897	112.99 ug/ml	99
81) Di-n-octylphthalate	18.459	149	5269490	143.78 ug/ml	100
82) Benzo(b)fluoranthene	19.096	252	3373105	134.83 ug/ml	100
83) Benzo(k)fluoranthene	19.149	252	2801070	117.68 ug/ml	99
84) Benzo(a)pyrene	19.679	252	2781130	127.59 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.952	276	1893473	99.26 ug/ml	99
86) Dibenz(a,h)anthracene	21.990	278	1647338	105.11 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1258406	85.18 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

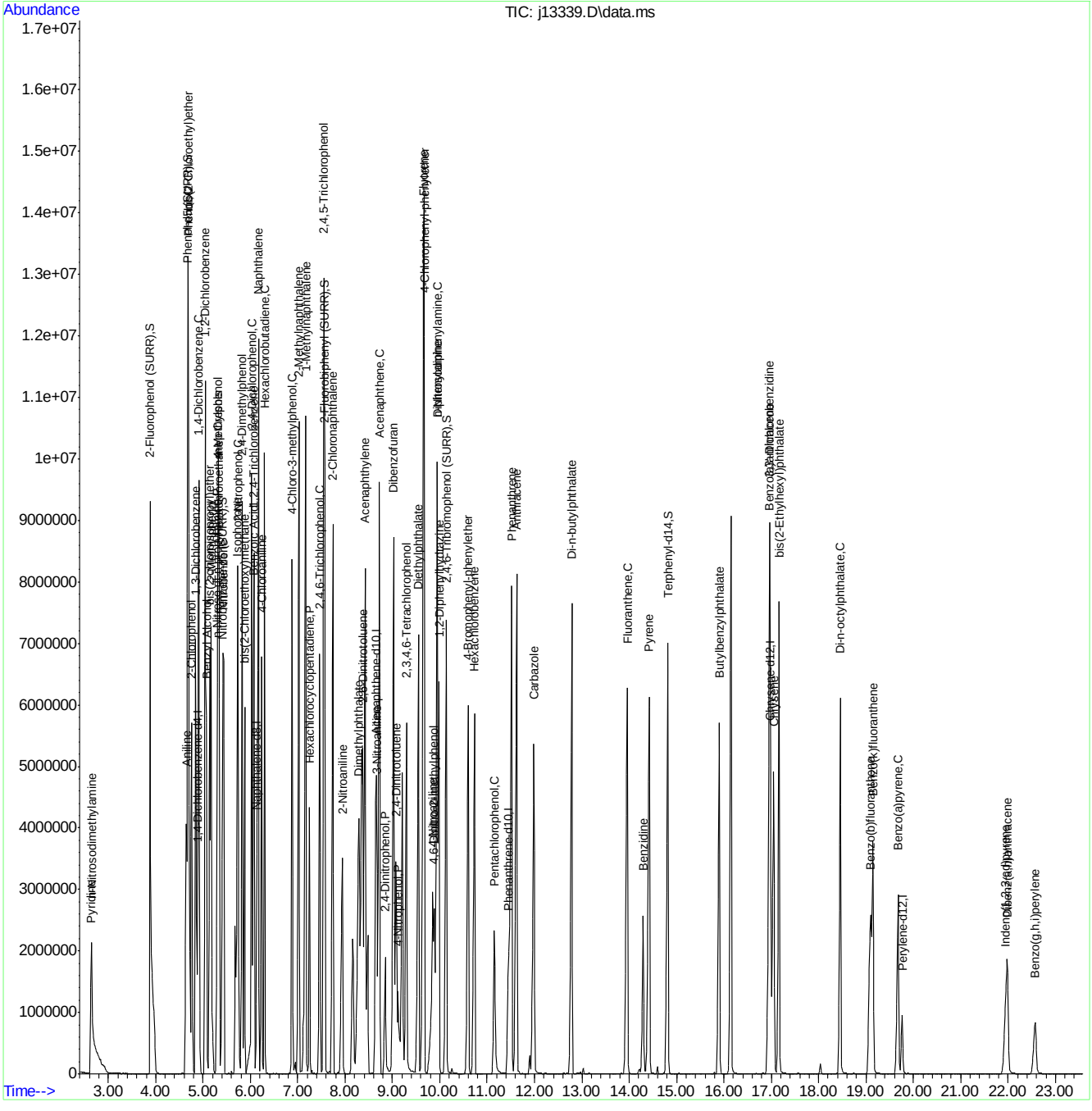
8.6.33

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 T39314

Quantitation Report (Qedit)

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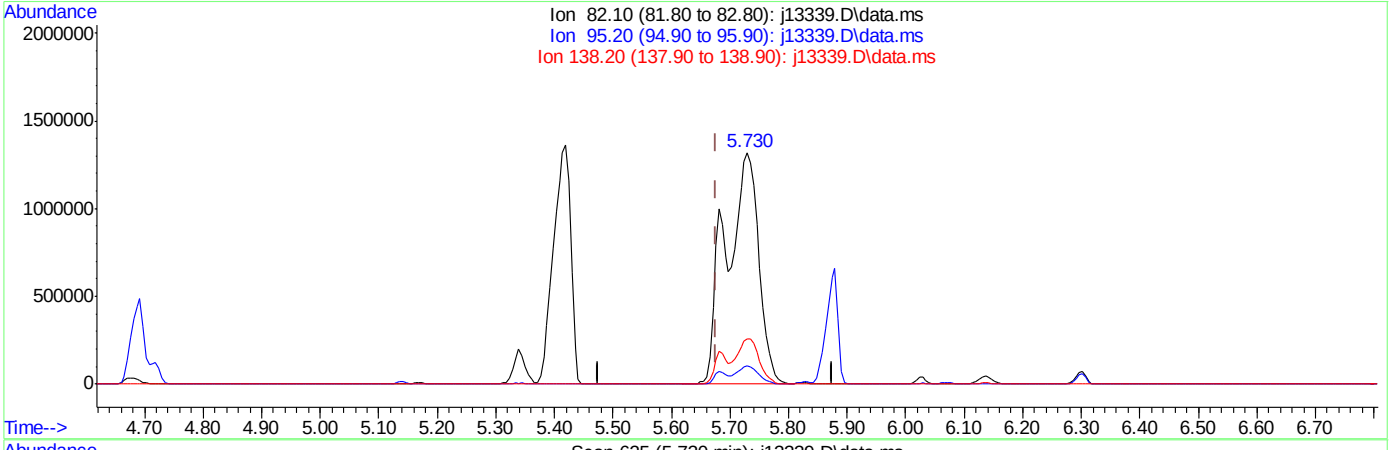
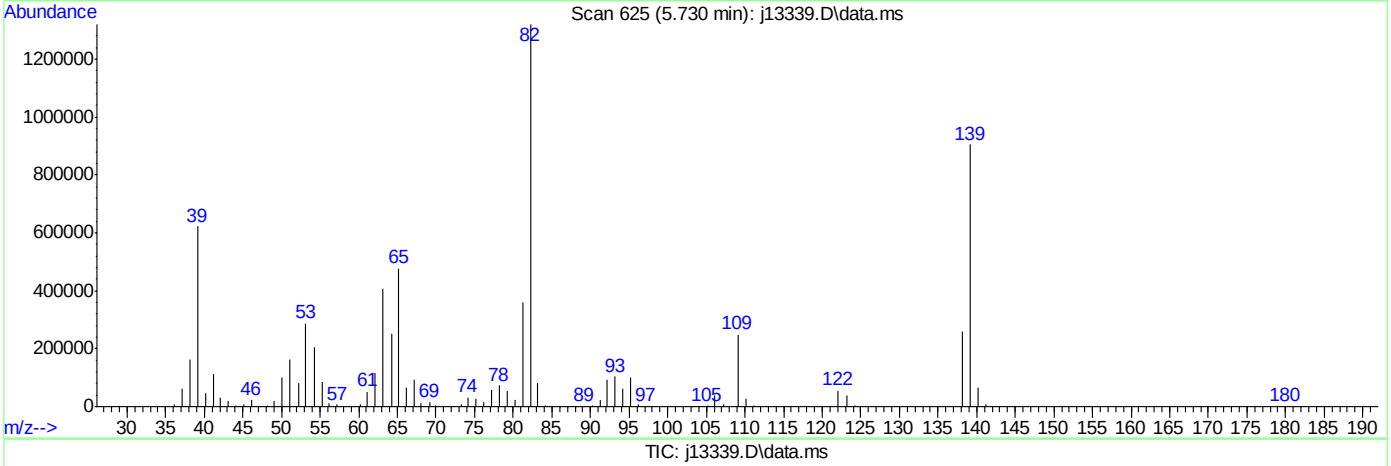
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On    : 23 Sep 2009   1:52 pm
Operator  : sheilac
Sample    : ic615-125
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

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

(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

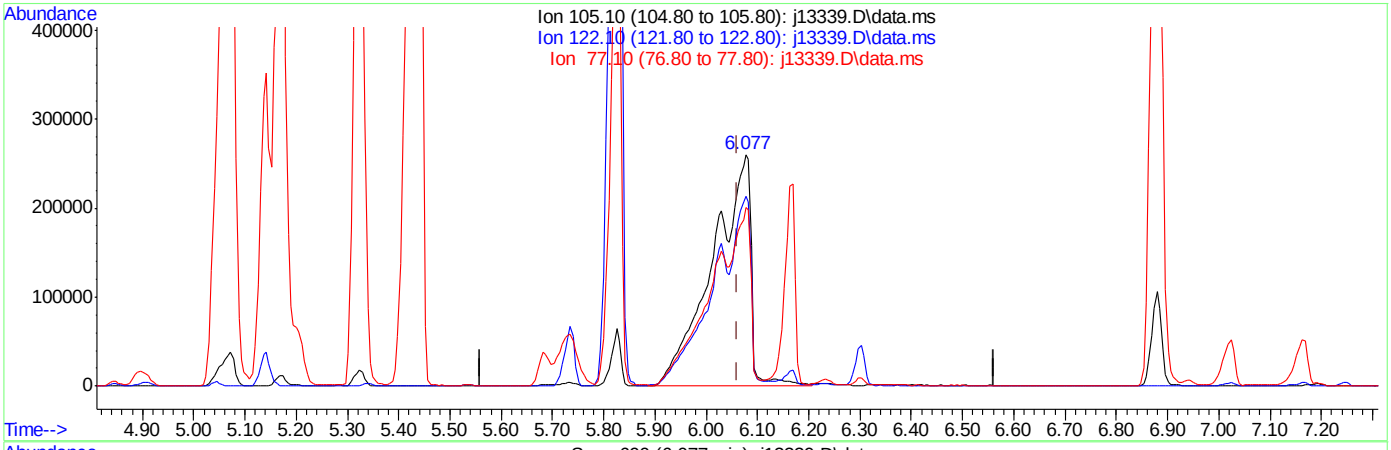
8.6.33.1

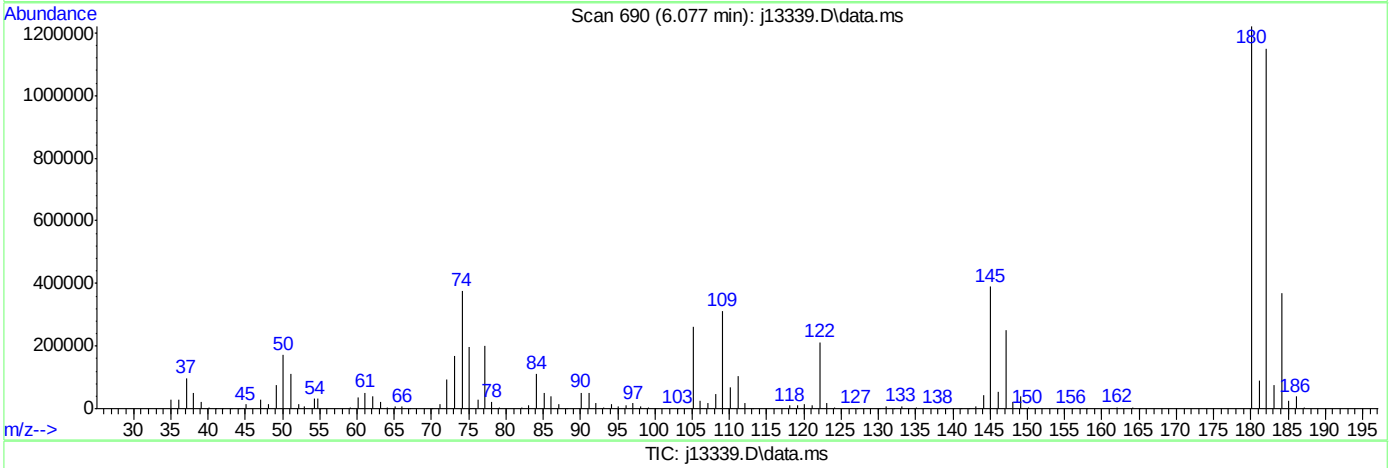
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On    : 23 Sep 2009   1:52 pm
Operator  : sheilac
Sample    : ic615-125
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration
```





TIC: j13339.D\data.ms

(27) Benzoic Acid

6.077min (+0.016) 169.32ug/ml m

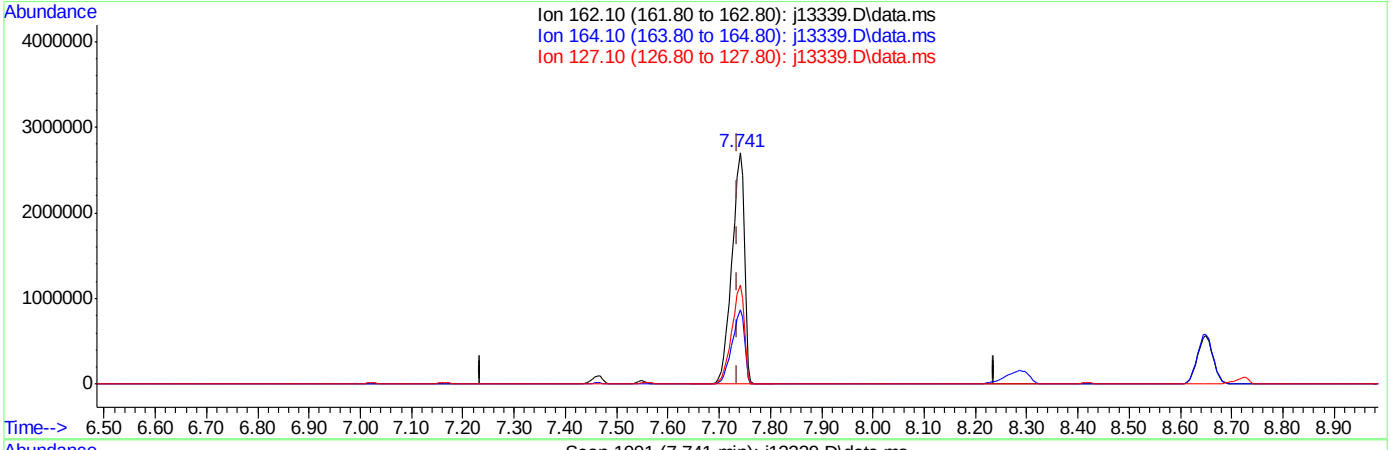
response 1368372

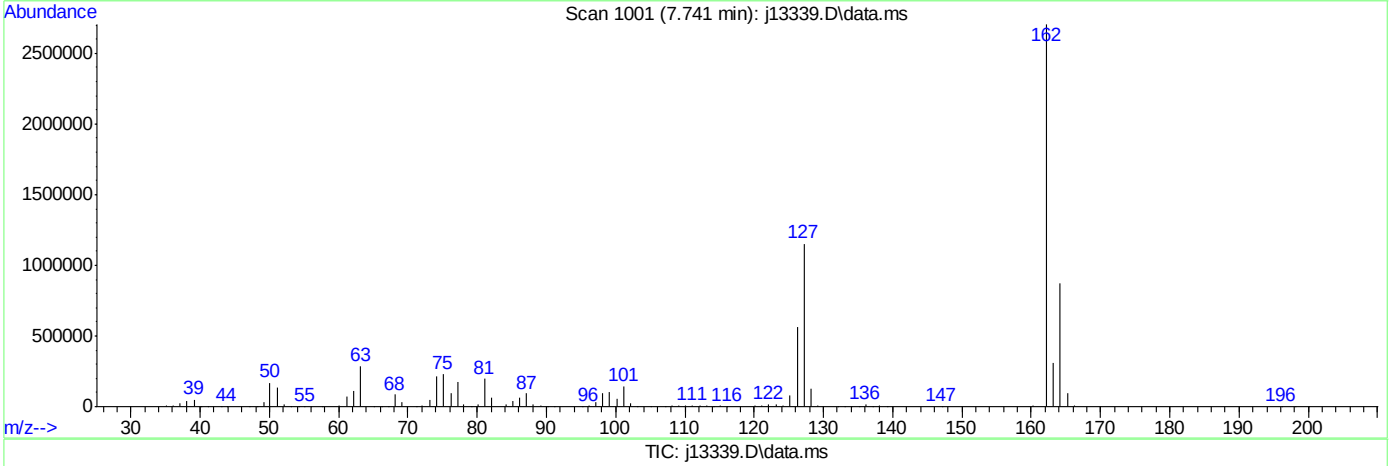
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	34.58#
77.10	81.90	29.28#
0.00	0.00	0.00

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

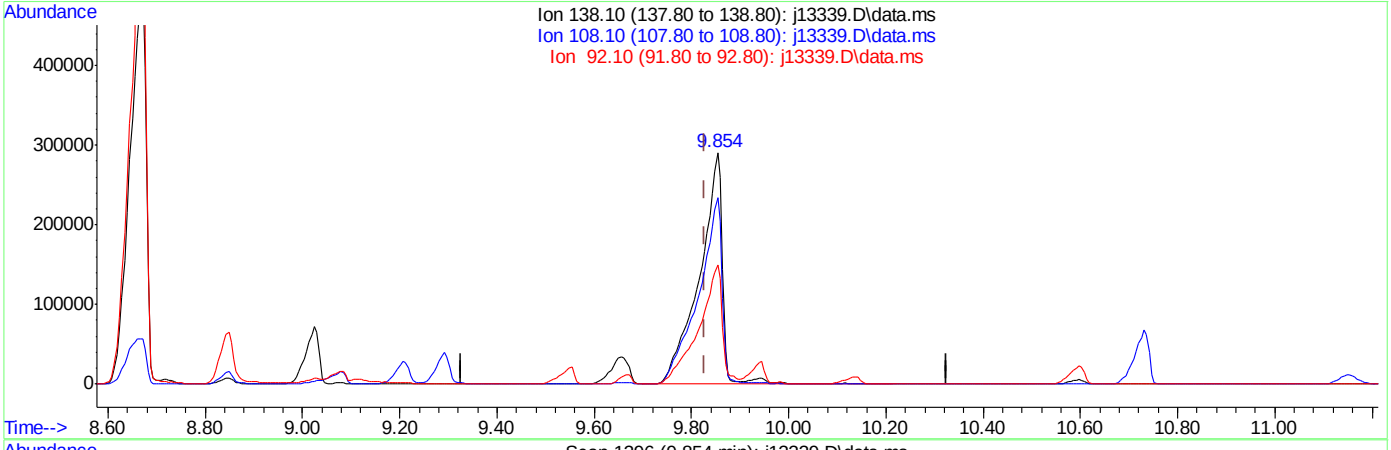
response 4554027

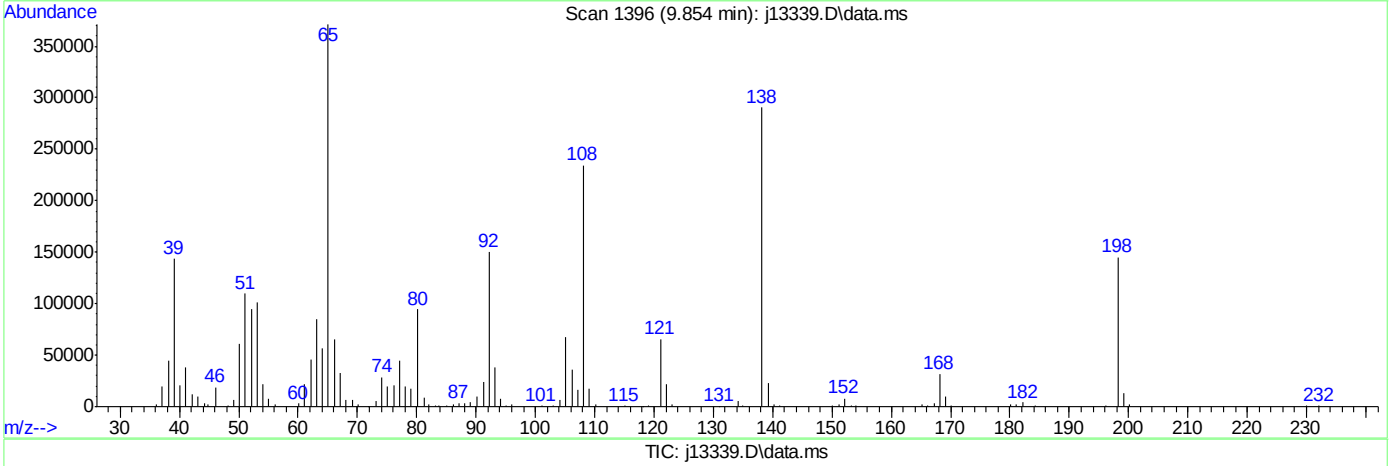
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.17
127.10	42.60	42.70
0.00	0.00	0.00

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

8.6.33.4

8

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

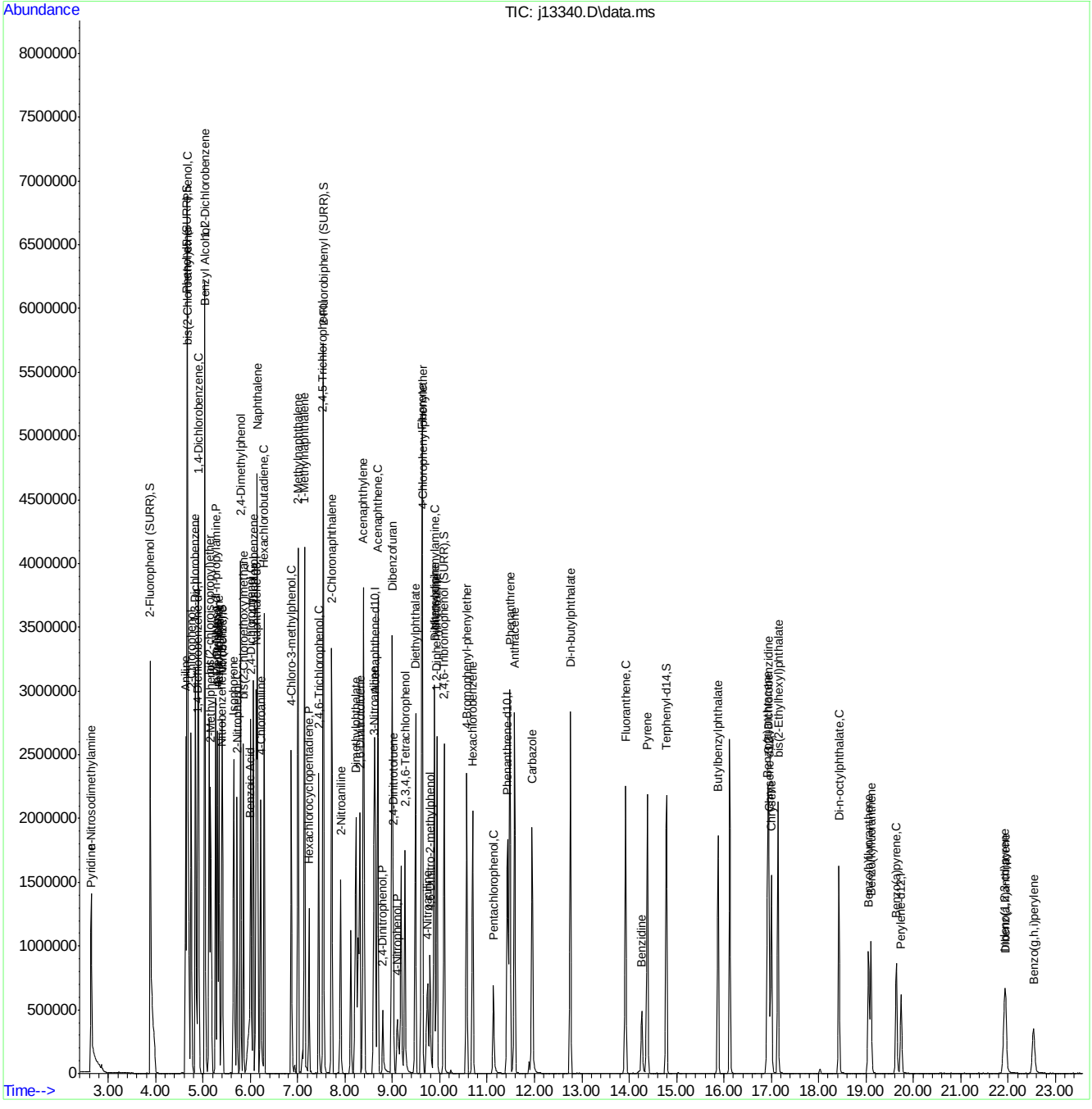
8.6.34

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

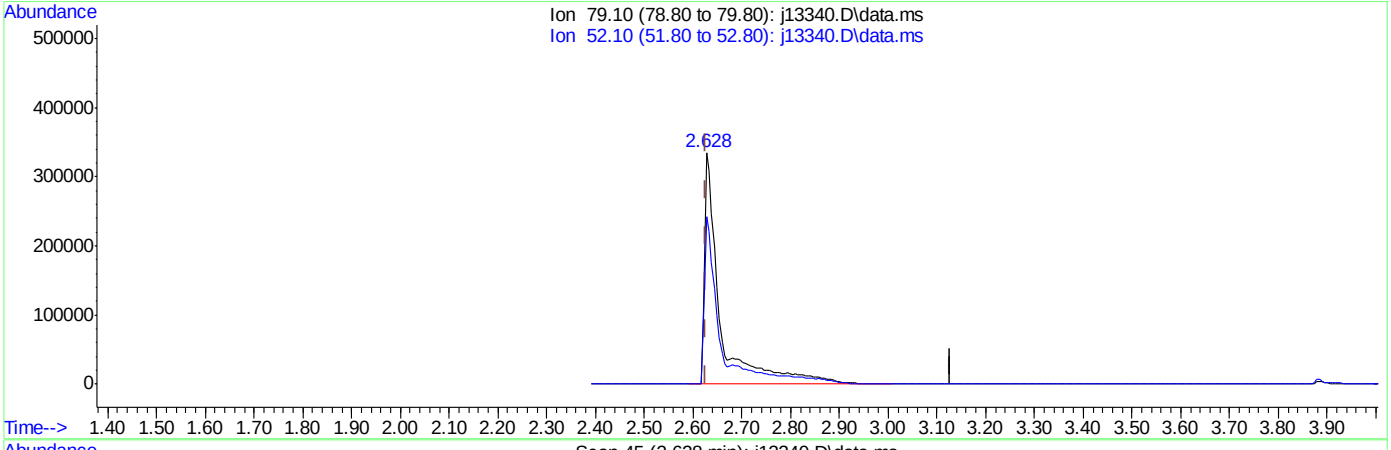
Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

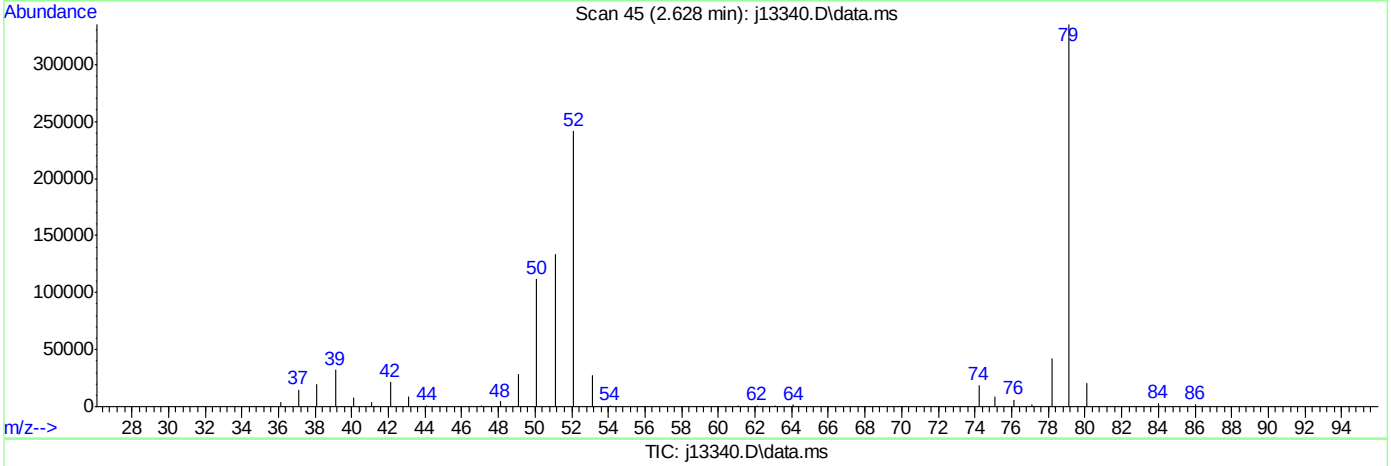


Quantitation Report (Qedit)

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

8.6.35

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

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

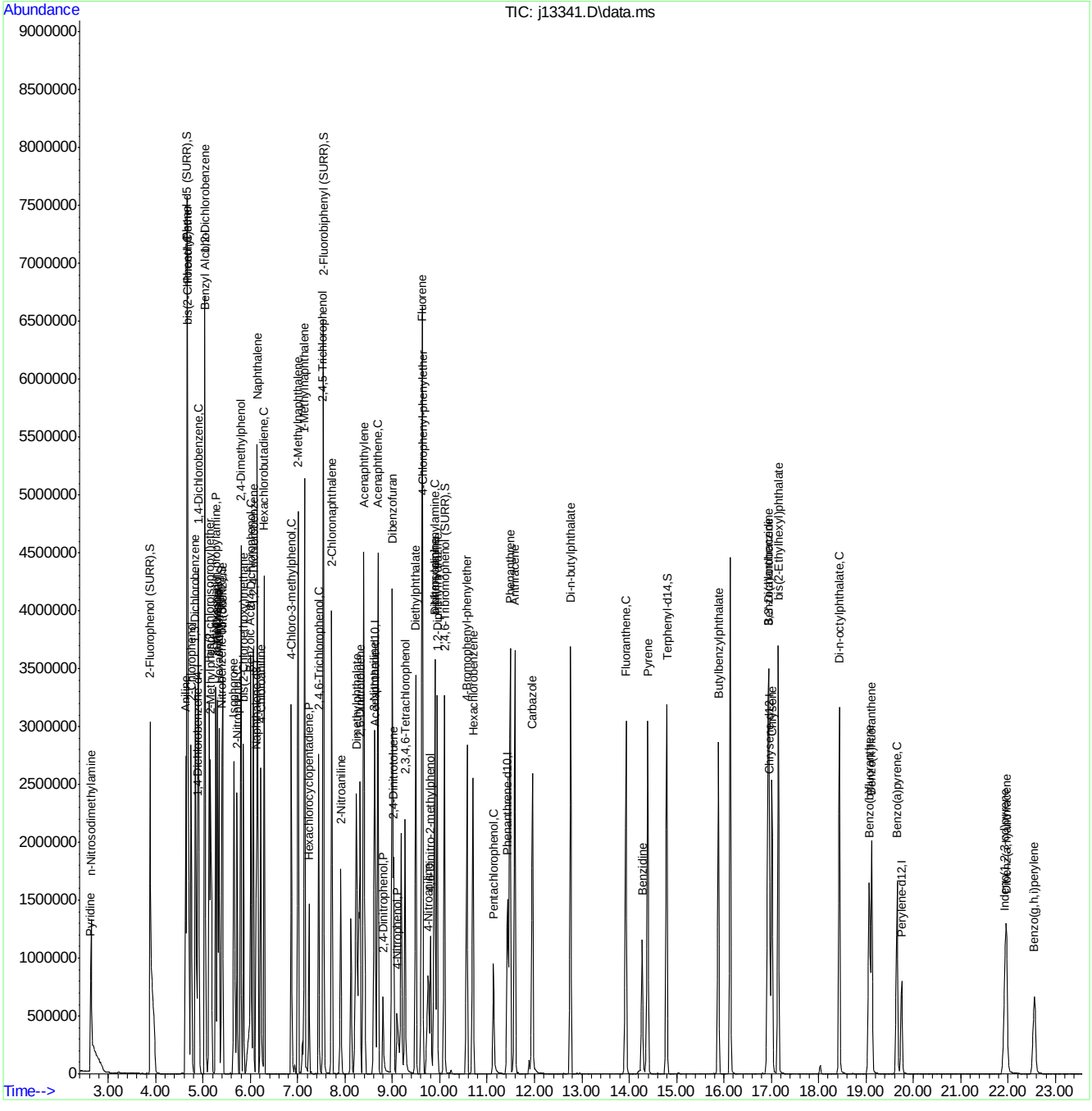
8.6.35

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

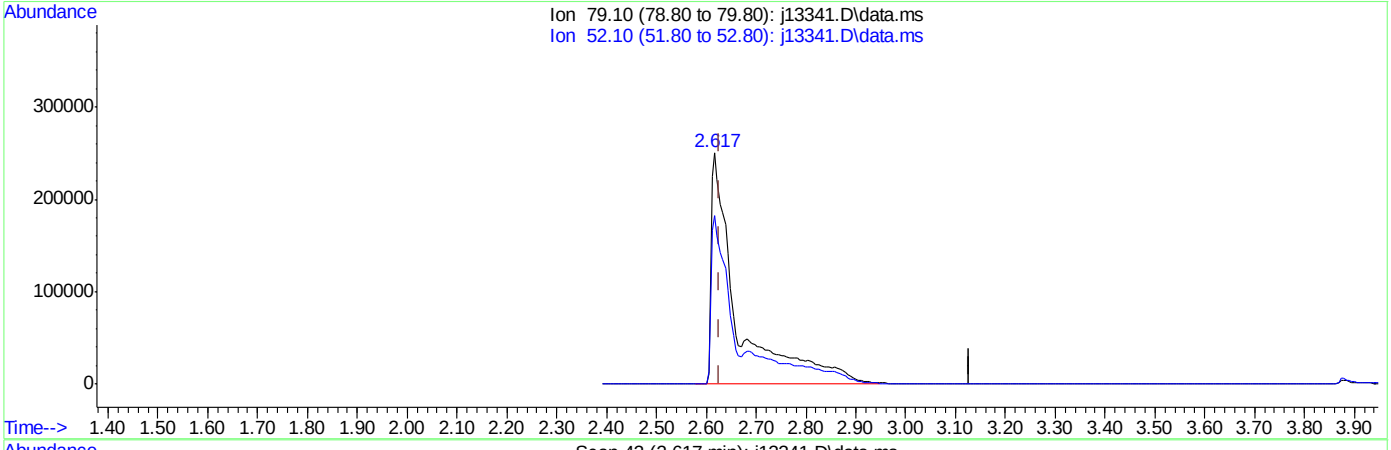


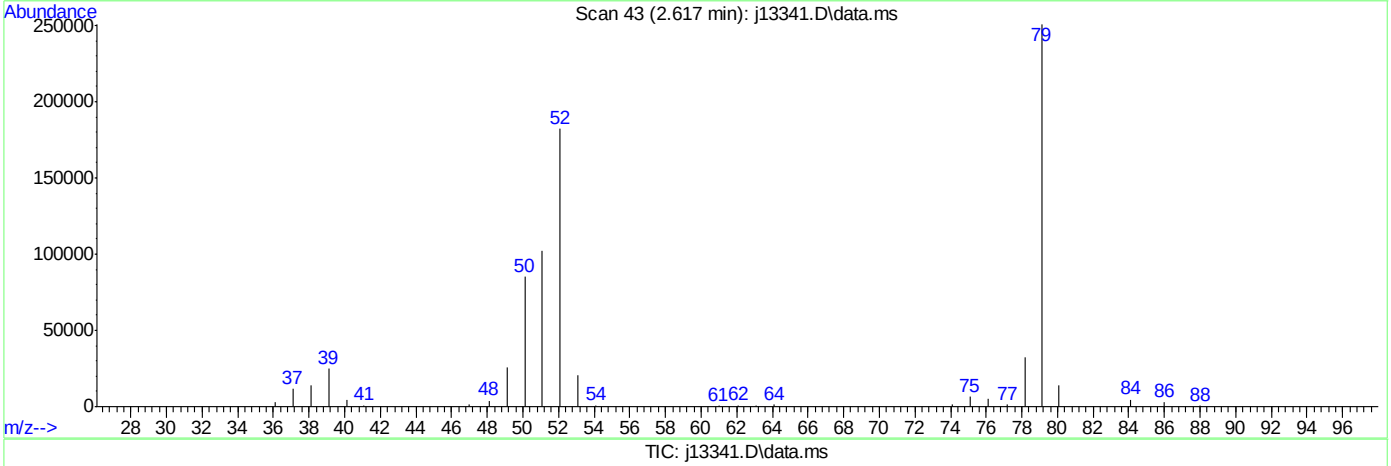
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration





TIC: j13341.D\data.ms

(3) Pyridine

2.617min (-0.011) 82.36ug/ml m

response 928595

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	382496	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	1390359	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	717631	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1012187	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	904594	40.00	ug/ml	-0.01
80) Perylene-d12	19.748	264	633901	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 110		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 114		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0d	0.00	ug/ml	
Spiked Amount 50.000	Range 36 - 126		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 132		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 33 - 138		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 46 - 136		Recovery	=	0.00%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	354790	55.19	ug/ml	97
3) Pyridine	2.638	79	583081m	51.40	ug/ml	
6) Phenol	4.687	94	781316	48.13	ug/ml	89
7) Aniline	4.628	93	548944	33.57	ug/ml	94
8) bis(2-Chloroethyl)ether	4.671	93	720071	45.25	ug/ml	97
9) 2-Chlorophenol	4.751	128	615933	48.91	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	685065	48.02	ug/ml	98
11) 1,4-Dichlorobenzene	4.901	146	717693	46.89	ug/ml	100
12) Benzyl Alcohol	5.034	108	438413	49.97	ug/ml	100
13) 1,2-Dichlorobenzene	5.034	146	693178	48.28	ug/ml	100
14) 2-Methylphenol	5.168	108	557746	49.01	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	970715	48.16	ug/ml	100
16) 4-Methylphenol	5.302	108	1189796	98.82	ug/ml	100
17) m+p-Cresols	5.302	108	1189796	98.82	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.259	70	509070	46.61	ug/ml	99
19) Hexachloroethane	5.334	117	270695	48.47	ug/ml	99
22) Nitrobenzene	5.403	77	669860	46.78	ug/ml	100
23) Isophorone	5.644	82	1243348	47.29	ug/ml	100
24) 2-Nitrophenol	5.719	139	308970	46.93	ug/ml	99
25) 2,4-Dimethylphenol	5.794	122	484882	44.53	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	686829	47.40	ug/ml	100
27) Benzoic Acid	5.976	105	270392	45.34	ug/ml	100
28) 2,4-Dichlorophenol	6.008	162	453402	47.34	ug/ml	100
29) 1,2,4-Trichlorobenzene	6.056	180	521921	45.29	ug/ml	100
30) Naphthalene	6.147	128	1823133	48.14	ug/ml	99
31) 4-Chloroaniline	6.216	127	300035	23.42	ug/ml	98
32) Hexachlorobutadiene	6.291	225	340718	47.09	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

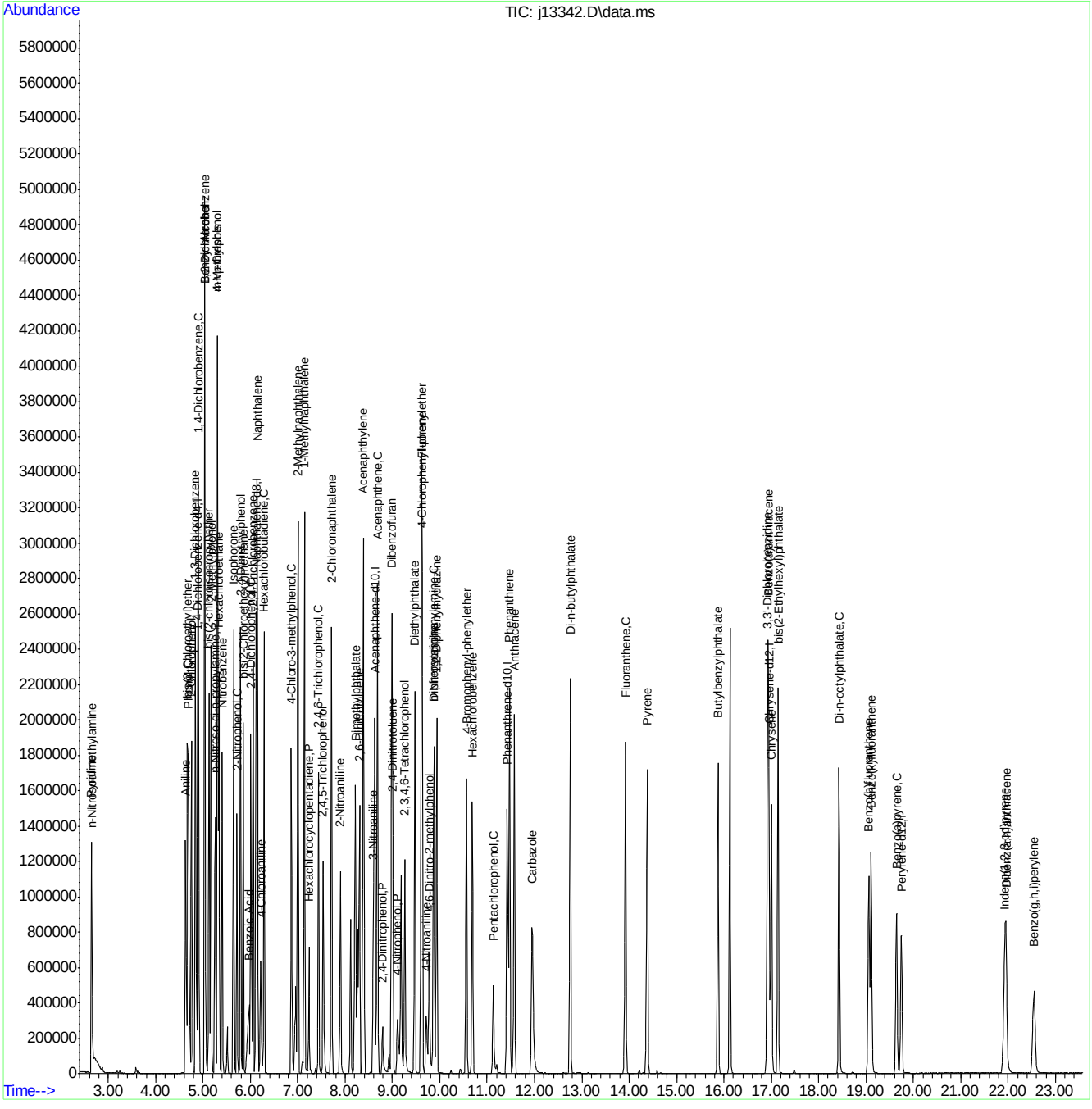
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33)	4-Chloro-3-methylphenol	6.864	107	512044	47.34	ug/ml	100
34)	2-Methylnaphthalene	7.003	142	1151343	49.77	ug/ml	100
35)	1-Methylnaphthalene	7.142	142	1123966	46.39	ug/ml	100
37)	Hexachlorocyclopentadiene	7.238	237	137587	43.14	ug/ml	99
38)	2,4,6-Trichlorophenol	7.436	196	306098	51.12	ug/ml	100
39)	2,4,5-Trichlorophenol	7.532	196	303549	42.86	ug/ml	100
41)	2-Chloronaphthalene	7.714	162	1005728	50.16	ug/ml	100
42)	2-Nitroaniline	7.901	65	346793	51.44	ug/ml	99
43)	Dimethylphthalate	8.217	163	1211035	50.25	ug/ml	100
44)	Acenaphthylene	8.383	152	1737763	51.13	ug/ml	100
45)	2,6-Dinitrotoluene	8.302	165	273967	48.32	ug/ml#	87
46)	3-Nitroaniline	8.597	138	207700	39.80	ug/ml	97
47)	Acenaphthene	8.682	154	984362	49.30	ug/ml	100
48)	2,4-Dinitrophenol	8.789	184	68227	39.85	ug/ml	98
49)	4-Nitrophenol	9.099	65	147509	45.27	ug/ml	96
50)	Dibenzofuran	8.987	168	1406473	49.31	ug/ml	100
51)	2,4-Dinitrotoluene	9.008	165	338461	49.84	ug/ml#	72
52)	2,3,4,6-Tetrachlorophenol	9.260	232	239567	45.11	ug/ml	98
53)	Diethylphthalate	9.474	149	1232296	49.29	ug/ml	100
54)	Fluorene	9.613	166	1193461	48.01	ug/ml	100
55)	4-Chlorophenyl-phenyle...	9.629	204	576854	45.07	ug/ml	99
56)	4-Nitroaniline	9.714	138	171163m	38.48	ug/ml	
58)	1,2-Diphenylhydrazine	9.934	77	1256859	48.83	ug/ml	100
59)	4,6-Dinitro-2-methylph...	9.779	198	143151	44.29	ug/ml	99
60)	Diphenylamine	9.875	169	770831	40.69	ug/ml	100
61)	n-Nitrosodiphenylamine	9.875	169	770831	40.69	ug/ml	100
63)	4-Bromophenyl-phenylether	10.565	248	310064	48.53	ug/ml	100
64)	Hexachlorobenzene	10.688	284	340718	48.94	ug/ml	100
65)	Pentachlorophenol	11.126	266	112355	47.08	ug/ml	96
66)	Phenanthrene	11.474	178	1464496	48.56	ug/ml	100
67)	Anthracene	11.576	178	1419130	48.87	ug/ml	100
68)	Carbazole	11.950	167	1027874	43.97	ug/ml	100
69)	Di-n-butylphthalate	12.758	149	1828007	50.48	ug/ml	100
70)	Fluoranthene	13.924	202	1460296	53.41	ug/ml	100
73)	Pyrene	14.384	202	1423169	44.65	ug/ml	100
75)	Butylbenzylphthalate	15.876	149	693258	48.84	ug/ml	100
76)	Benzo(a)anthracene	16.930	228	1234326	48.50	ug/ml	100
77)	3,3'-Dichlorobenzidine	16.924	252	288549	53.00	ug/ml	98
78)	Chrysene	17.005	228	1055240	49.19	ug/ml	100
79)	bis(2-Ethylhexyl)phtha...	17.144	149	910289	47.72	ug/ml	100
81)	Di-n-octylphthalate	18.427	149	1349111	41.48	ug/ml	100
82)	Benzo(b)fluoranthene	19.058	252	994451	47.47	ug/ml	100
83)	Benzo(k)fluoranthene	19.112	252	951064	49.70	ug/ml	100
84)	Benzo(a)pyrene	19.647	252	773972	43.27	ug/ml	100
85)	Indeno(1,2,3-cd)pyrene	21.925	276	856080	56.76	ug/ml	100
86)	Dibenz(a,h)anthracene	21.957	278	707954	56.56	ug/ml	99
87)	Benzo(g,h,i)perylene	22.546	276	660664	57.99	ug/ml	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On    : 23 Sep 2009   3:21 pm
Operator  : sheilac
Sample    : icv615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 23 16:53:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration
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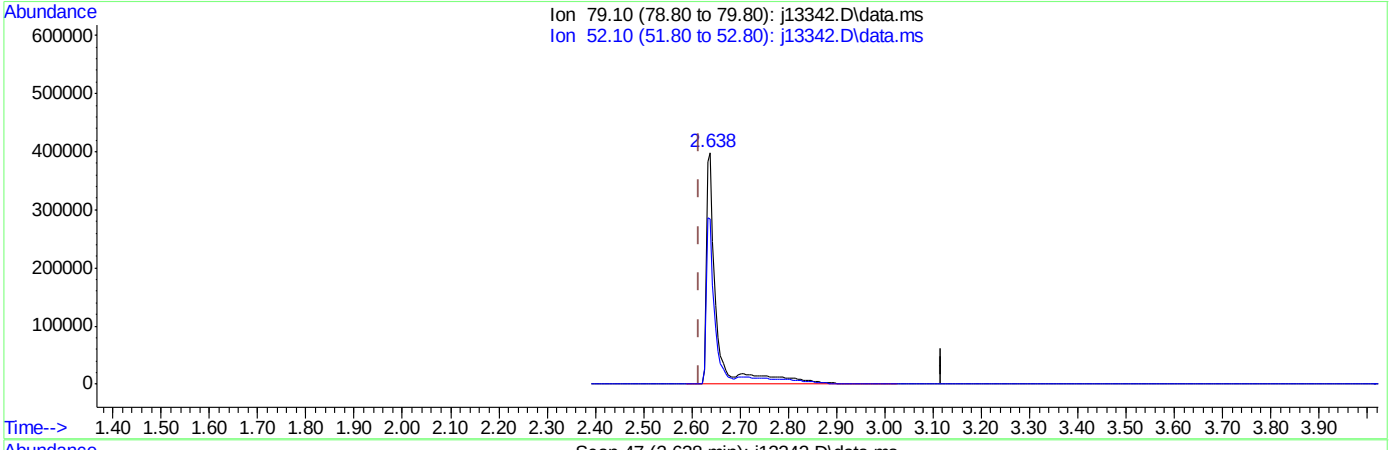
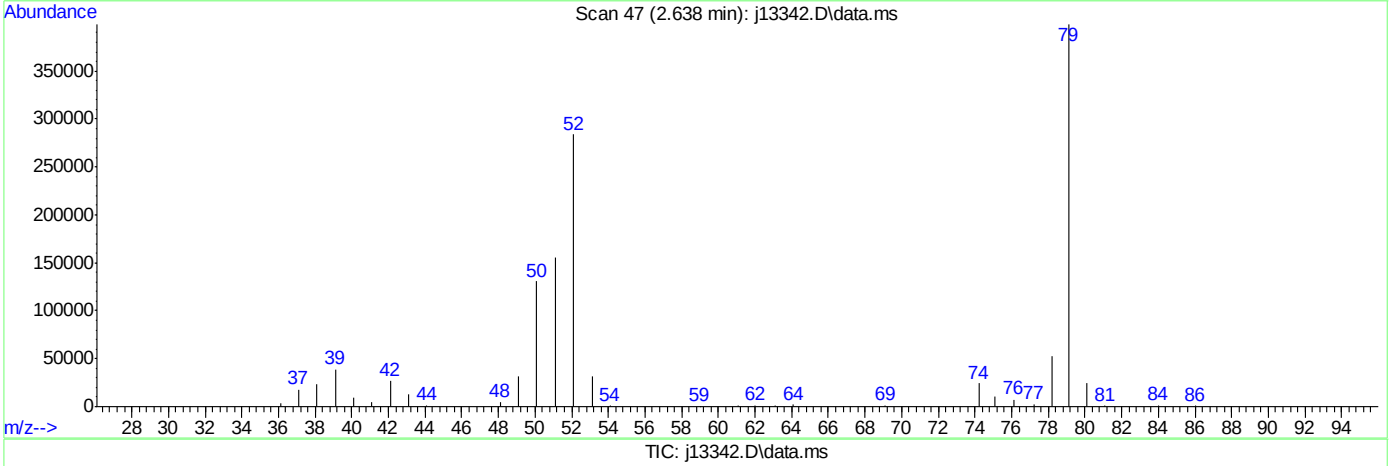




TIC: j13342.D\data.ms

(3) Pyridine

2.638min (+0.021) 51.40ug/ml m

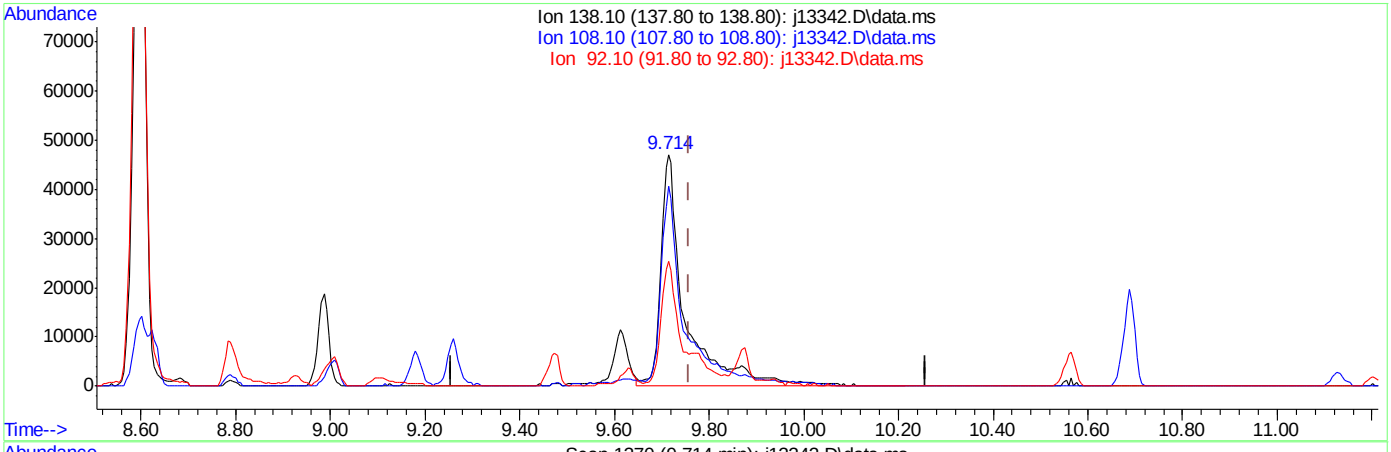
response 583081

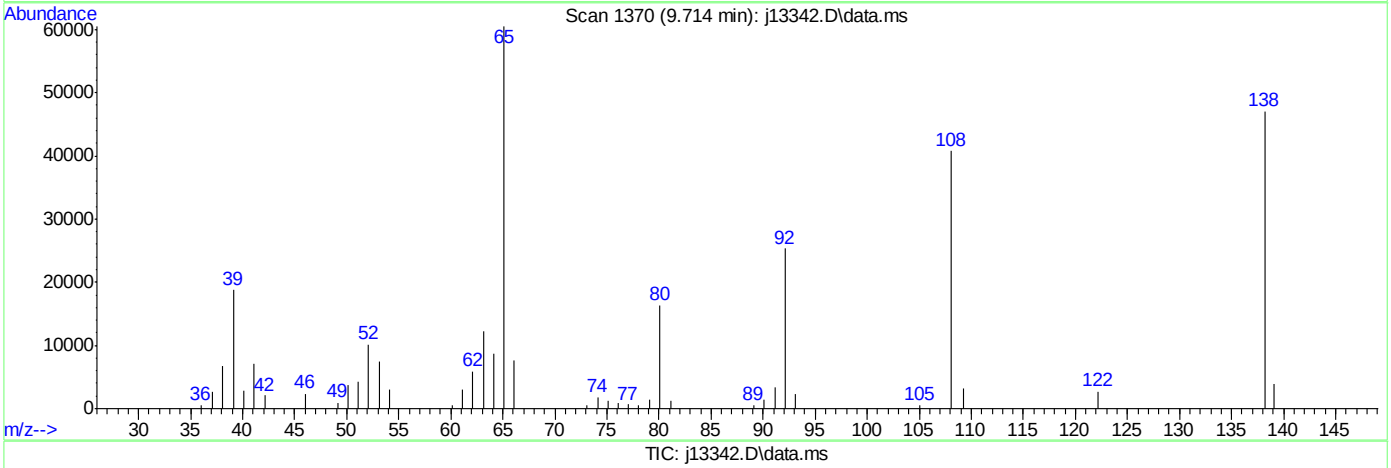
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	56.42
0.00	0.00	0.00
0.00	0.00	0.00

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

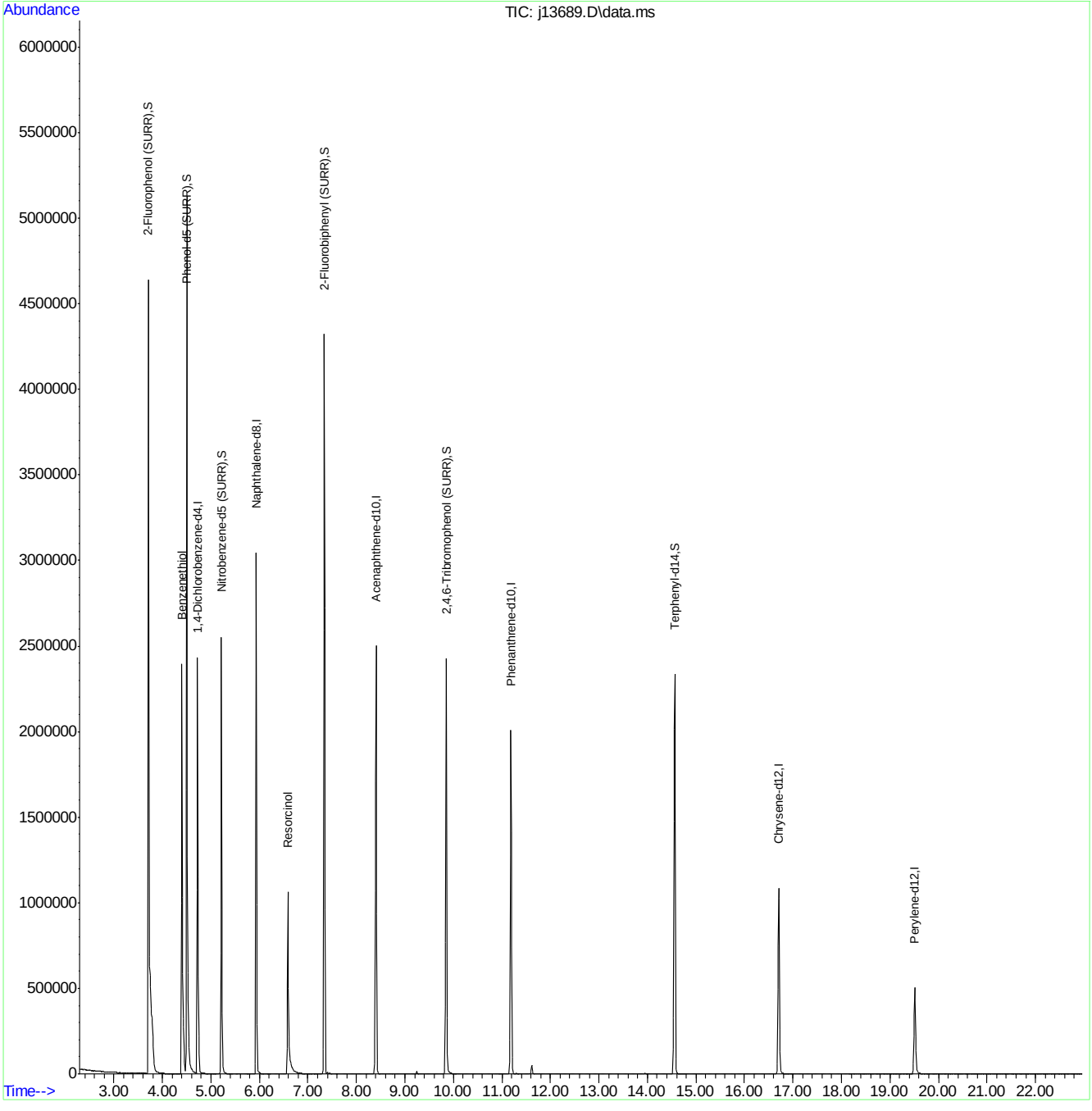
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	425311	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1500474	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	839398	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1281434	40.00	ug/ml	0.45
33) 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 T39314

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

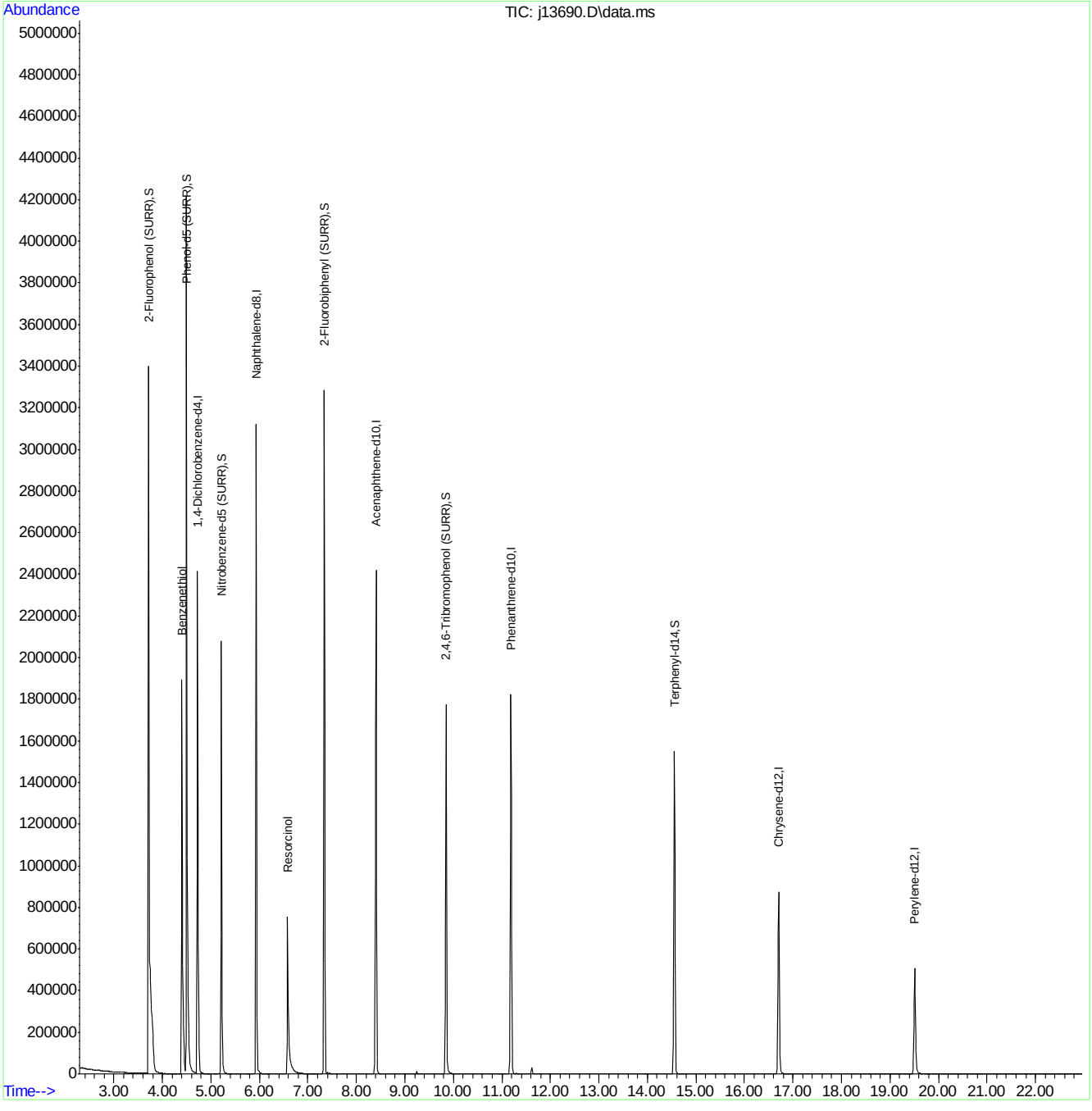
8.6.38

8

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



8.6.38
8
ACCUTEST Laboratories
T39314

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

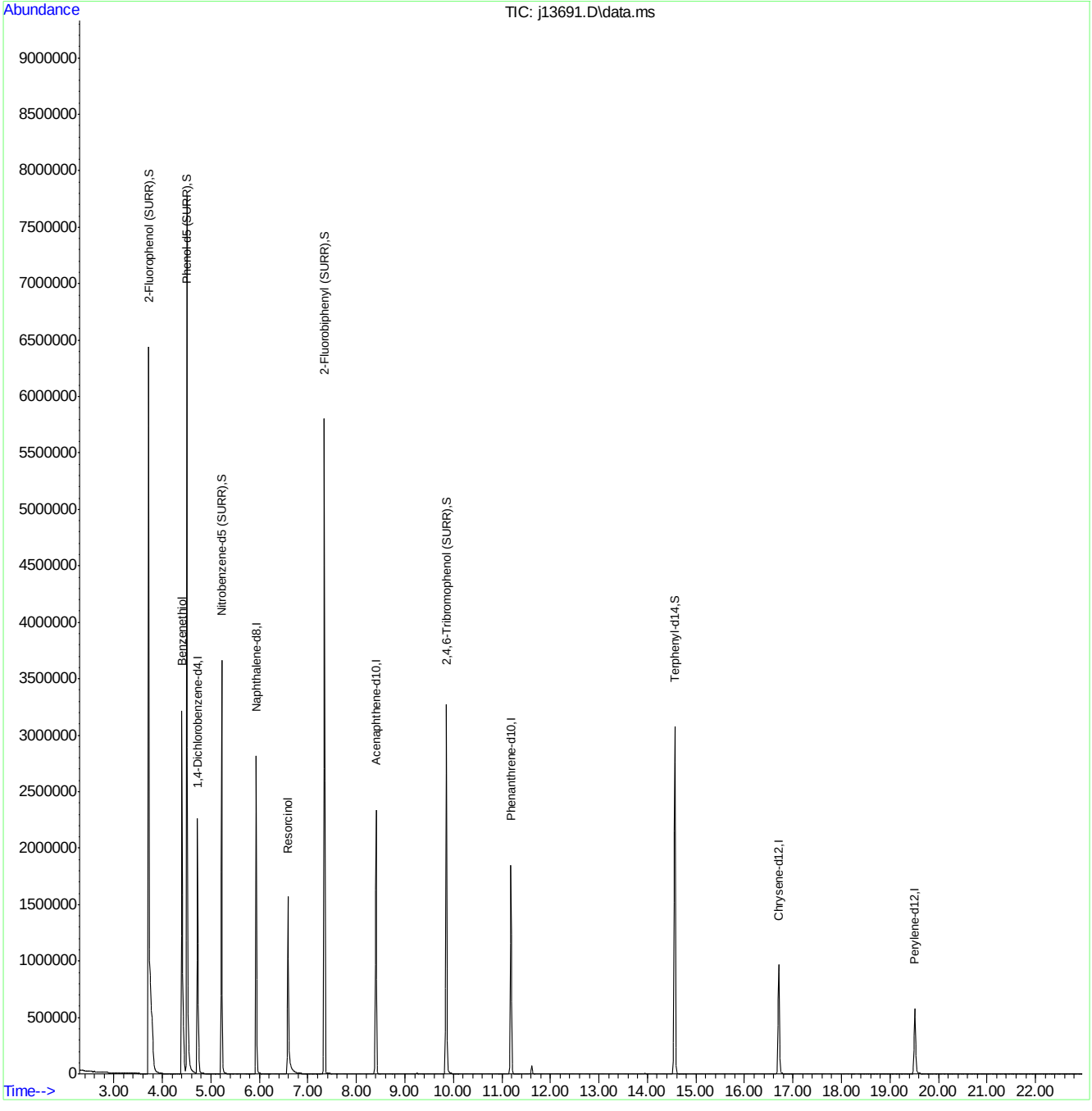
8.6.39

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

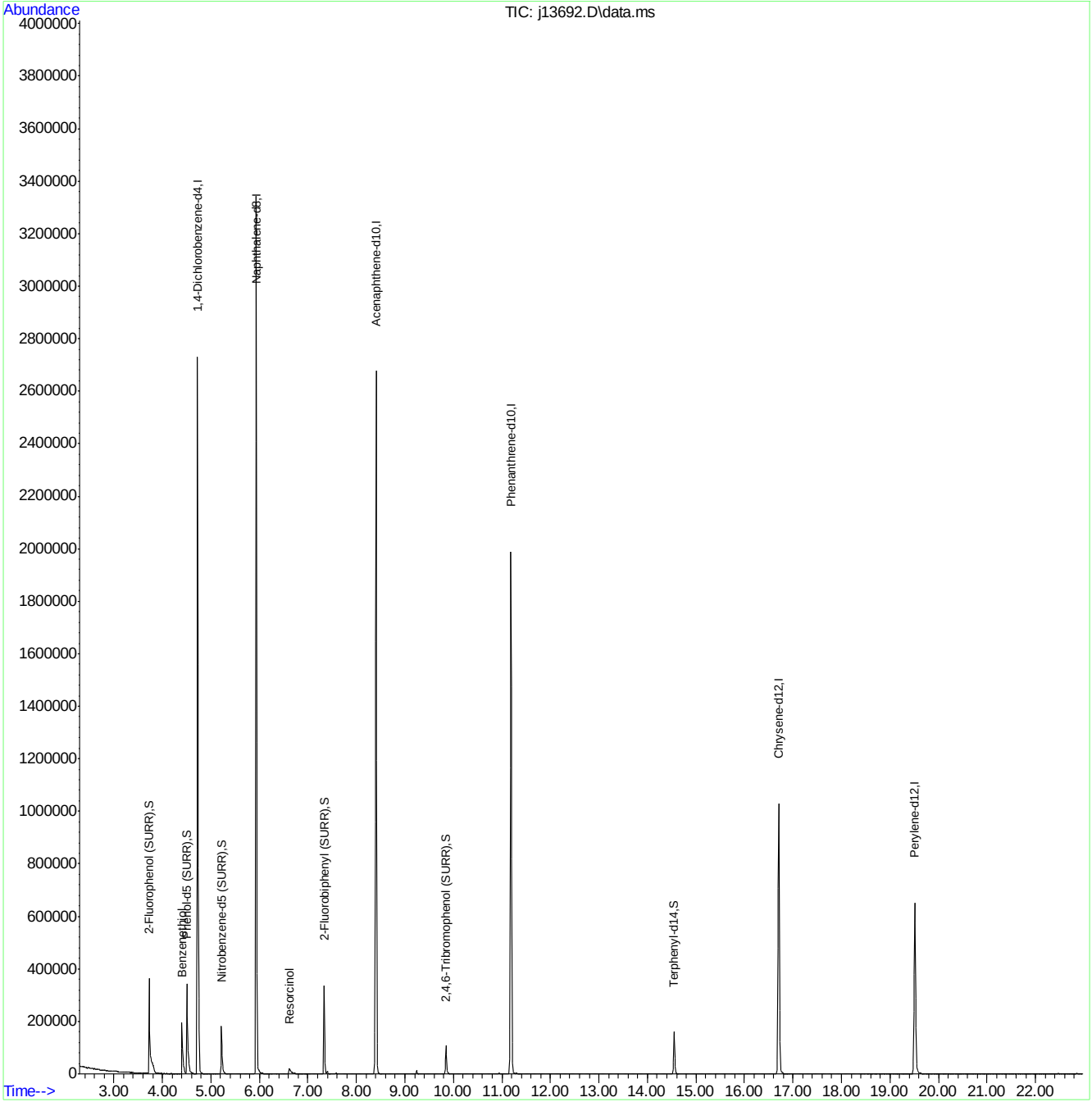
8.6.40

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

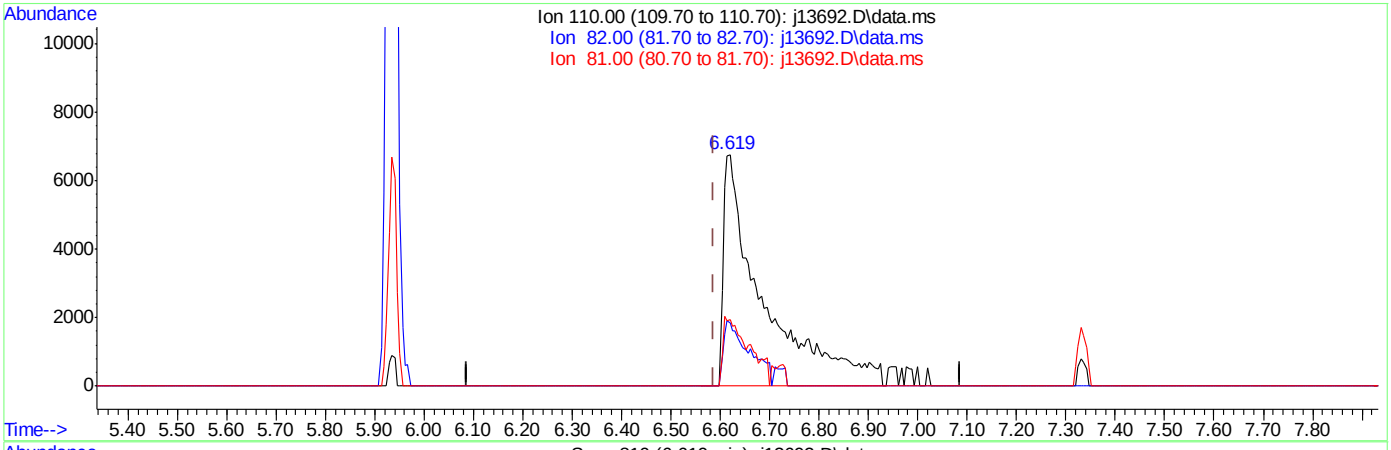
Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

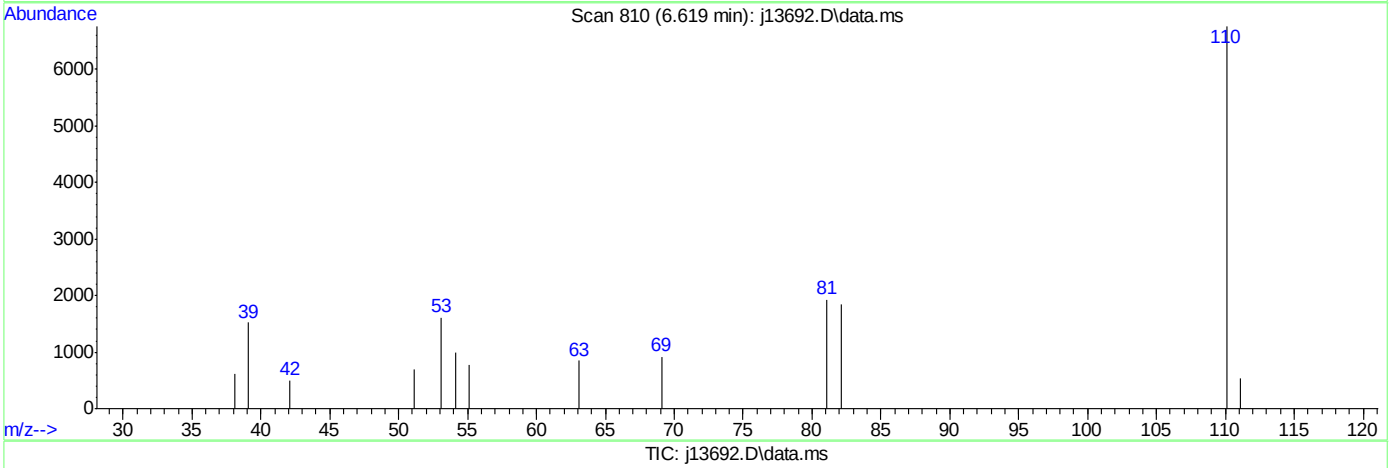


Quantitation Report (Qedit)

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

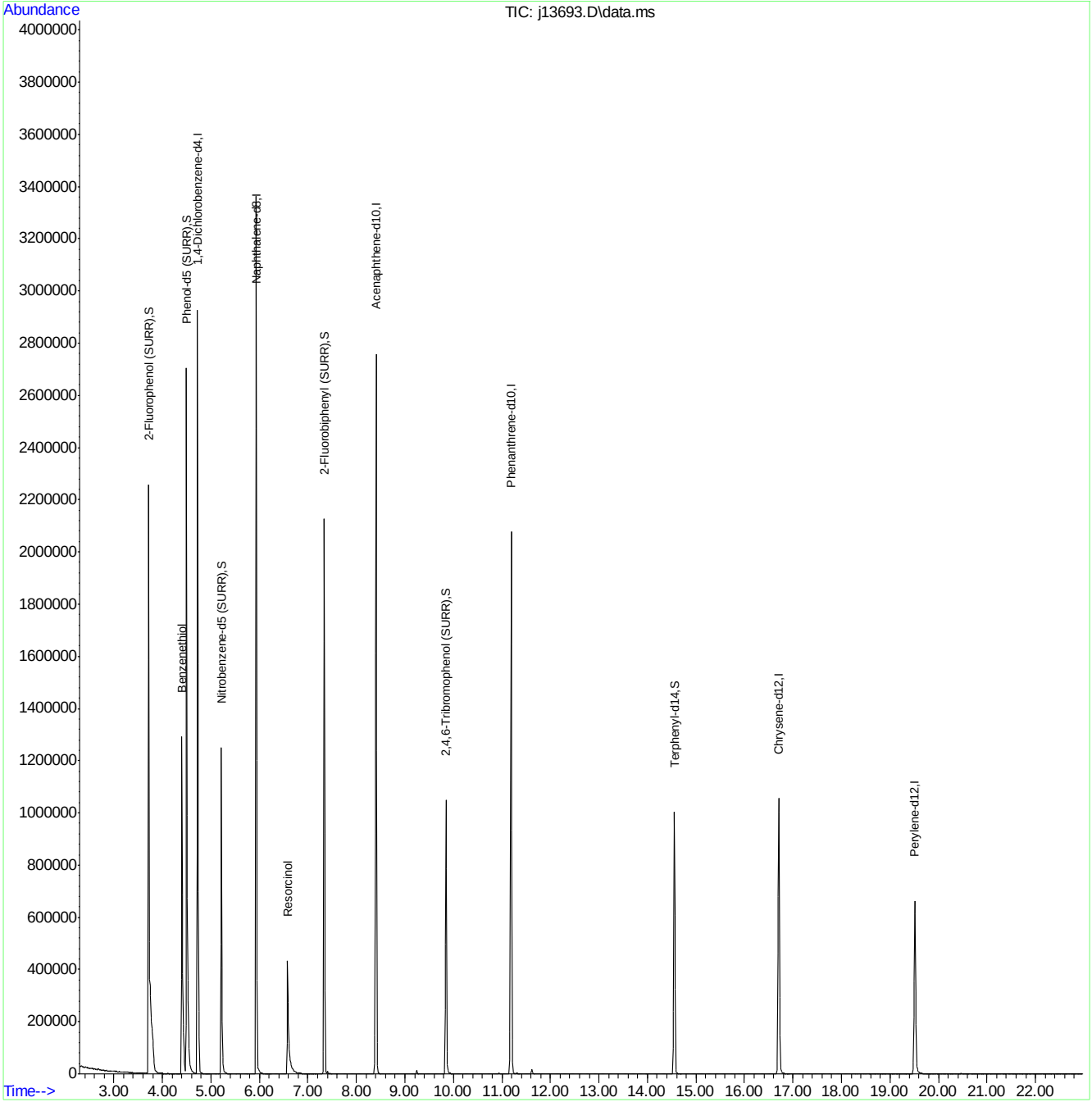
8.6.41

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



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	453816	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1569063	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	846788	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1245971	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	655946	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	427661	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.720	112	3743084	248.54	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 248.54%#			
5) Phenol-d5 (SURR)	4.512	99	4864272	293.30	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 293.30%#			
15) Nitrobenzene-d5 (SURR)	5.229	82	2060552	127.59	ug/ml	-0.04
Spiked Amount 50.000	Range 29 - 115		Recovery = 255.18%#			
22) 2-Fluorobiphenyl (SURR)	7.352	172	3759153	121.34	ug/ml	0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 242.68%#			
28) 2,4,6-Tribromophenol (...	9.871	330	1013581	247.09	ug/ml	0.40
Spiked Amount 100.000	Range 32 - 128		Recovery = 247.09%#			
35) Terphenyl-d14	14.573	244	2266528	149.86	ug/ml	0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 299.72%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	1827357	158.74	ug/ml	99
19) Resorcinol	6.598	110	1263288	124.82	ug/ml	100

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

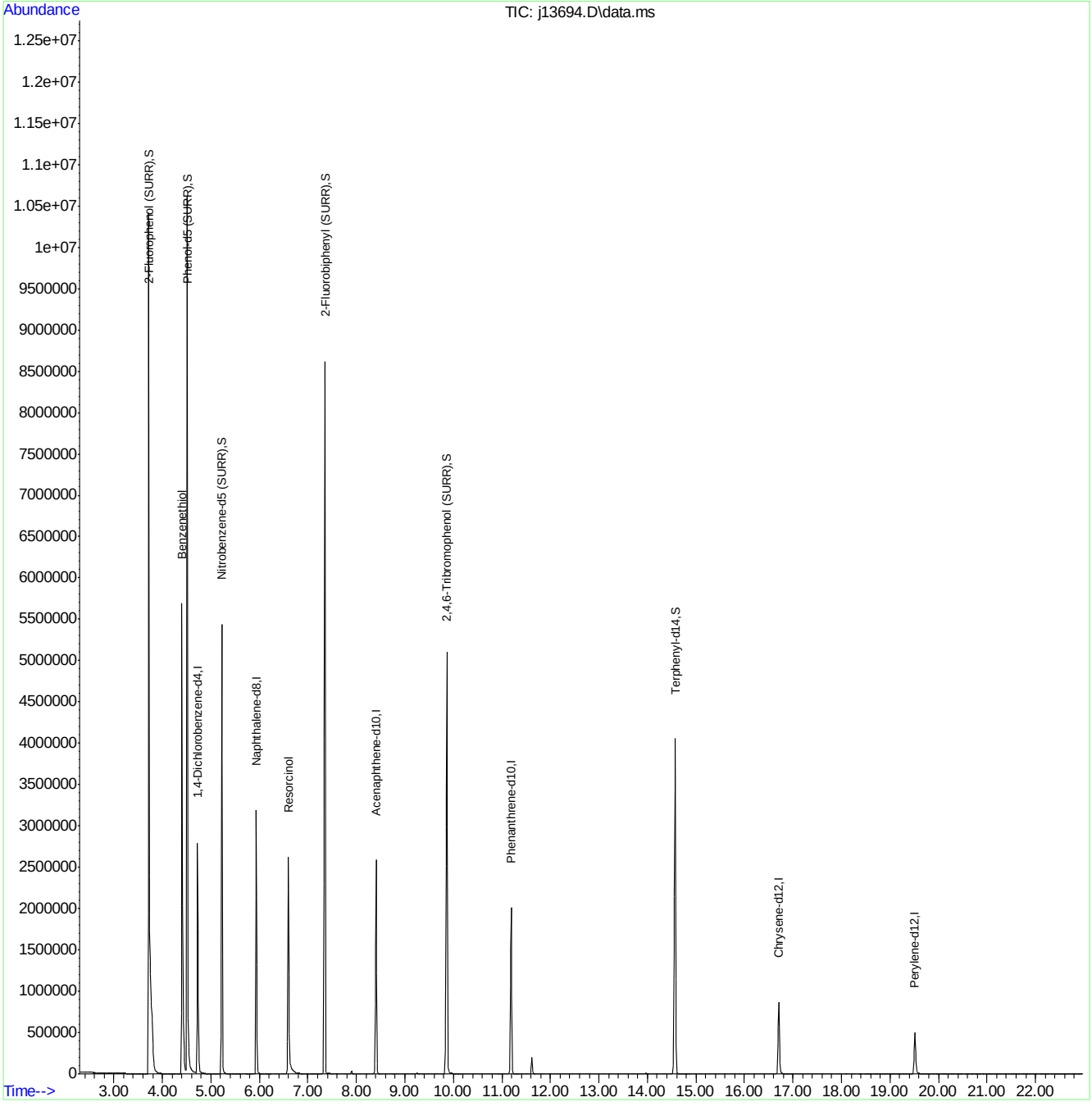
8.6.42

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



ej629ben+res.m Thu Oct 08 14:54:14 2009 Page: 2

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

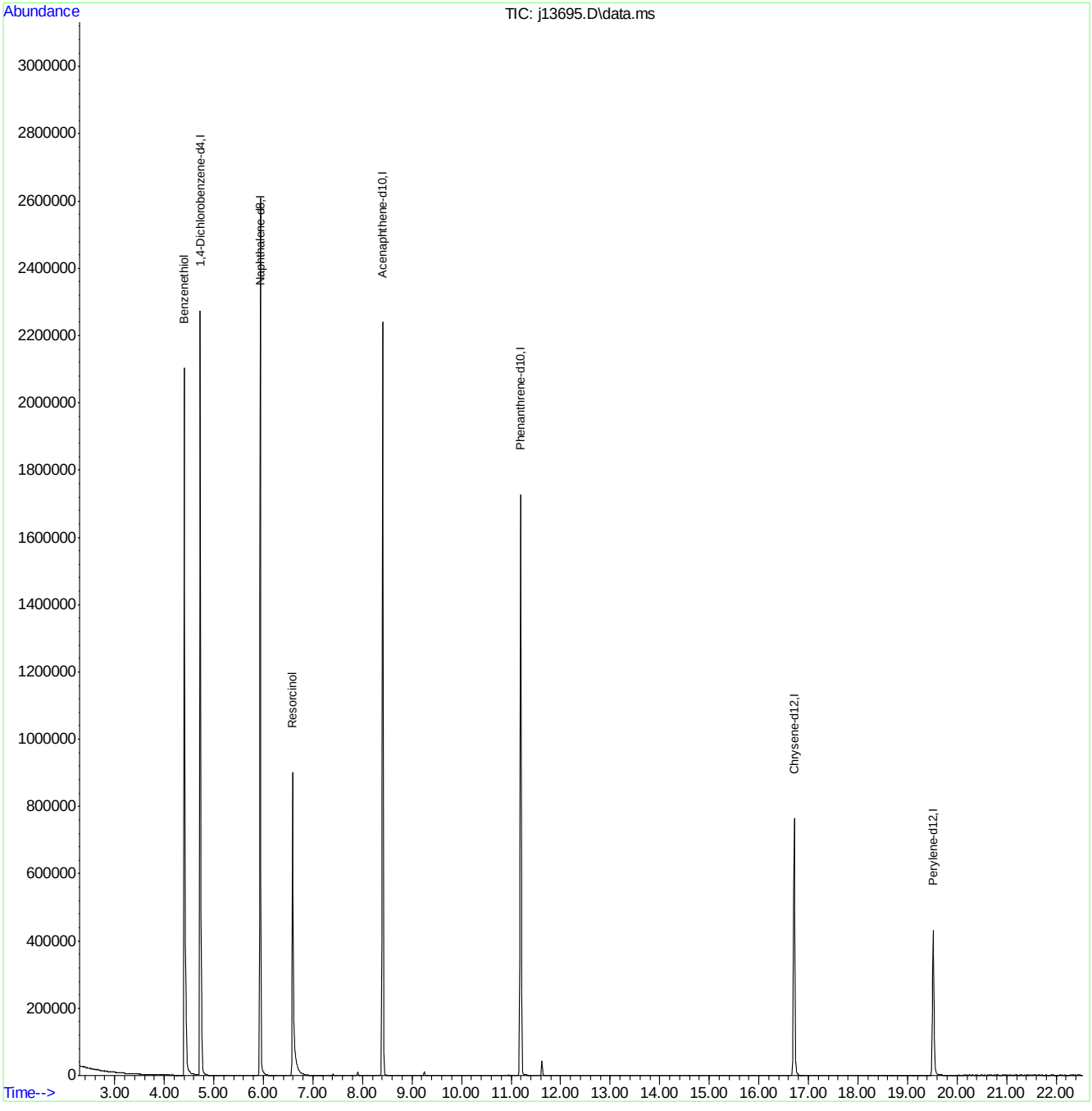
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	386125	40.00	ug/ml	0.00
14) Naphthalene-d8	5.940	136	1353260	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.411	164	734185	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.192	188	1056391	40.00	ug/ml	0.00
33) 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



ACCUTEST Laboratories T39314

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
```

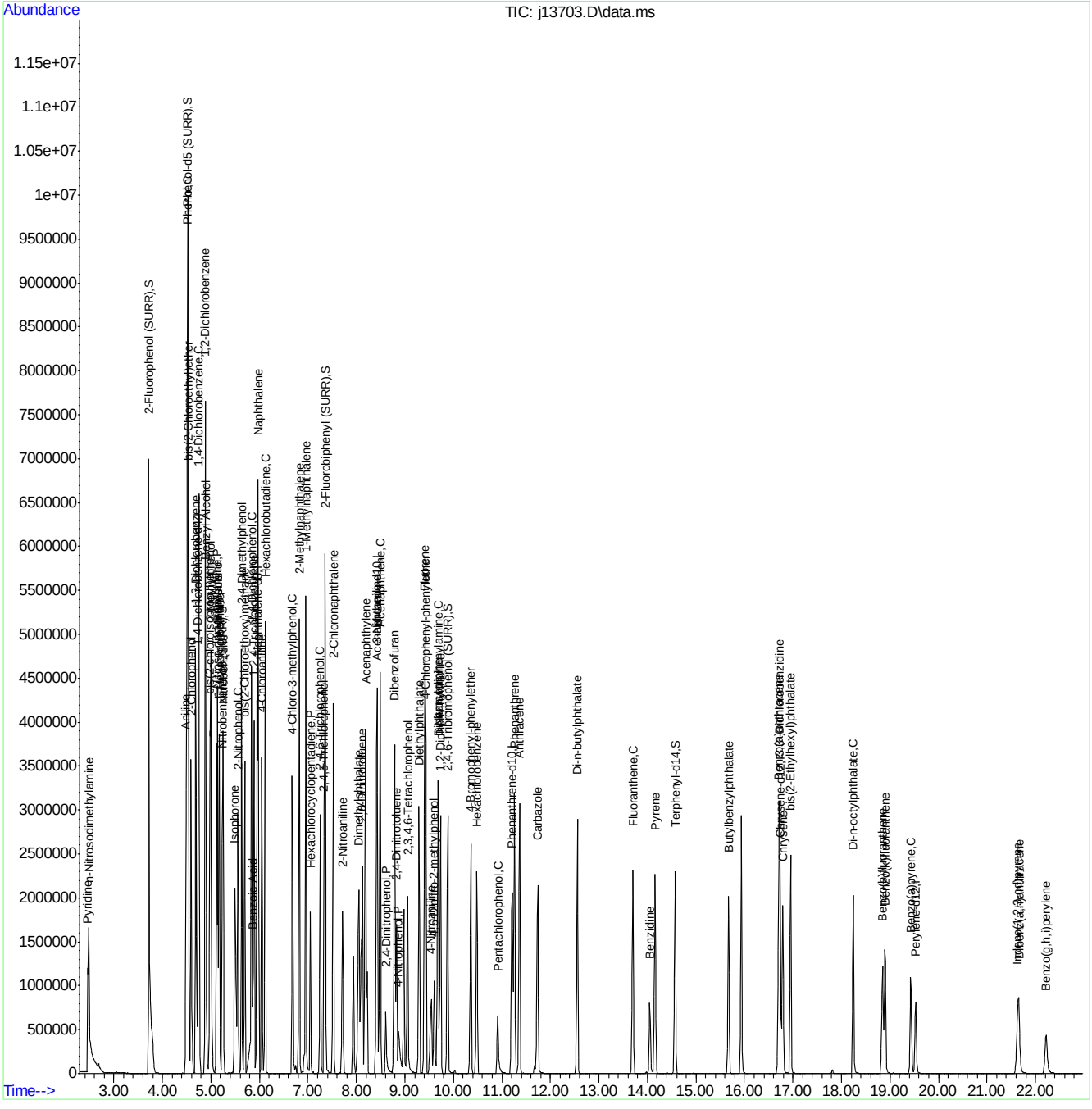
8.6.44

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

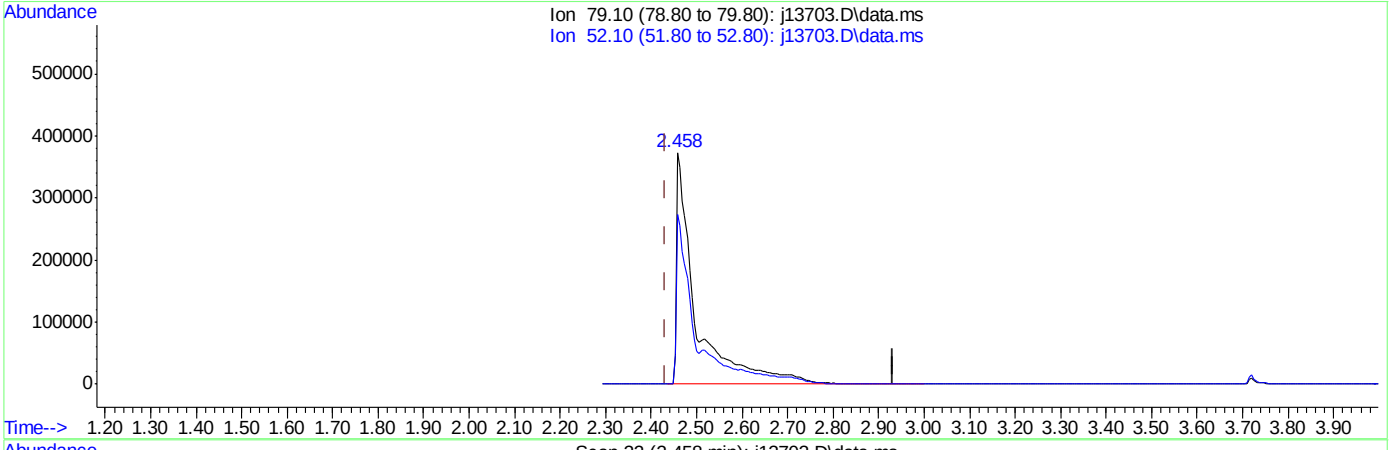
Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

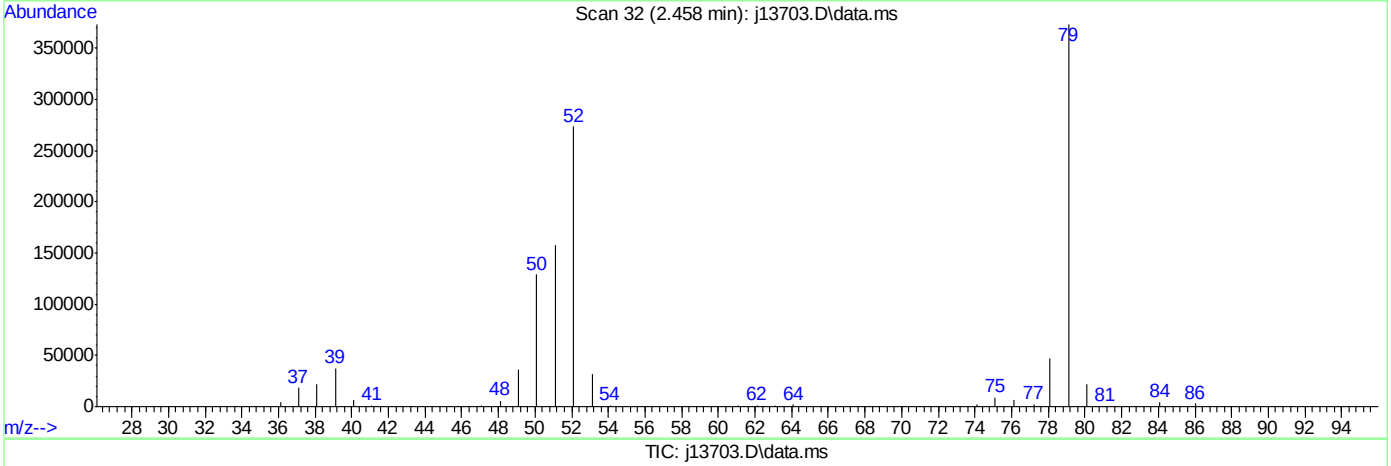


Quantitation Report (Qedit)

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

(3) Pyridine

2.458min (+0.026) 52.68ug/ml m

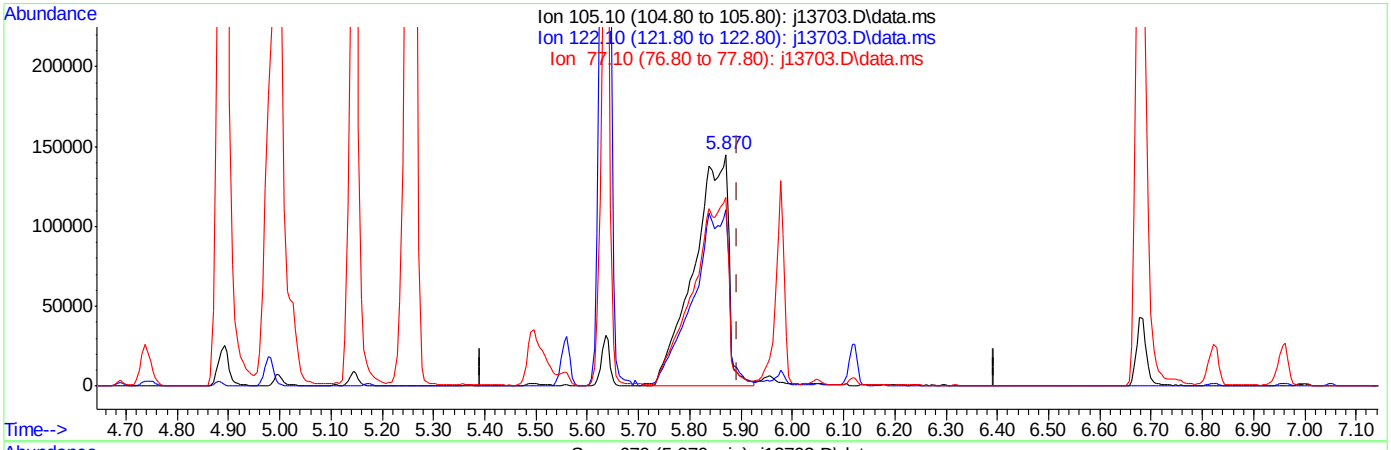
response 1117133

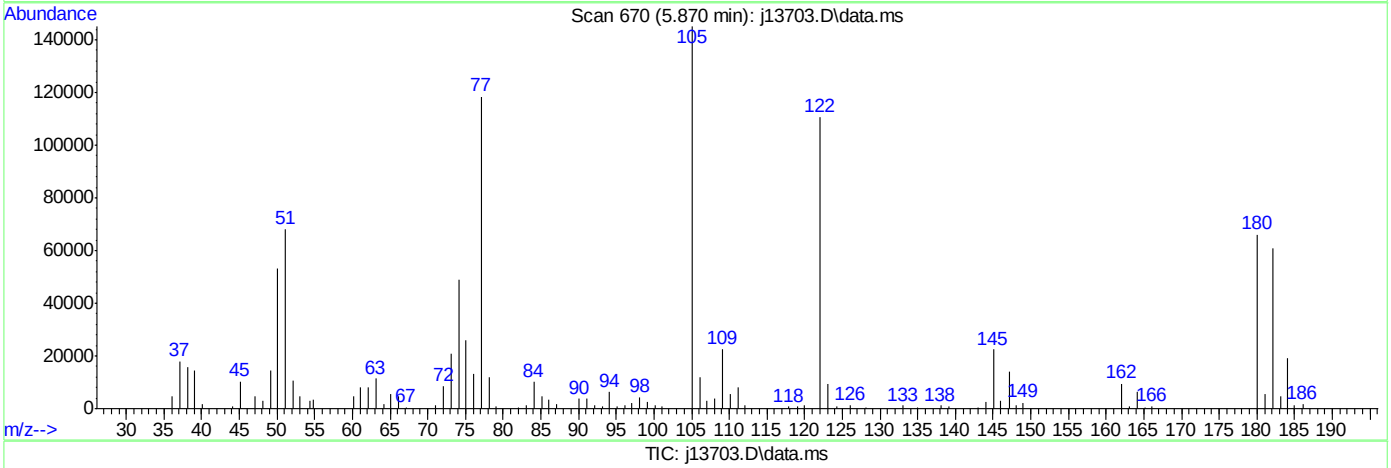
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	44.89#
0.00	0.00	0.00
0.00	0.00	0.00

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

ACCUTEST Laboratories

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

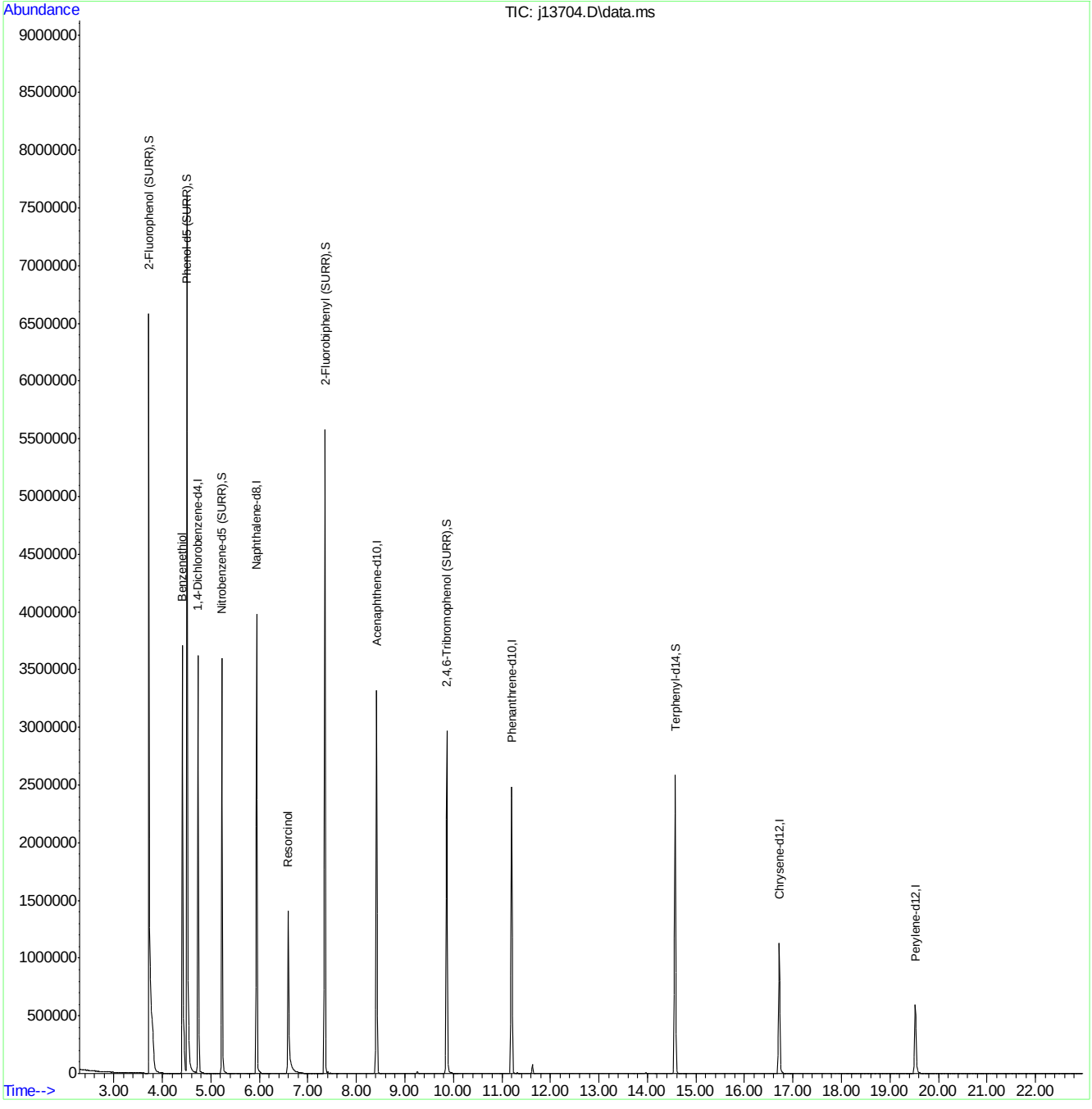
8.6.45

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



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/14/09 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13726.D
Acq On : 9 Oct 2009 9:27 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 13:50:38 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	443966	40.00	ug/ml	0.00
20) Naphthalene-d8	5.951	136	1544818	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.427	164	866250	40.00	ug/ml	0.01
57) Phenanthrene-d10	11.208	188	1249051	40.00	ug/ml	0.00
71) Chrysene-d12	16.744	240	1159703	40.00	ug/ml	0.01
80) Perylene-d12	19.536	264	653149	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	1440791	103.41	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 103.41%#			
5) Phenol-d5 (SURR)	4.507	99	1945937	111.75	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 111.75%#			
21) Nitrobenzene-d5 (SURR)	5.234	82	857213	52.91	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery = 105.82%			
40) 2-Fluorobiphenyl (SURR)	7.357	172	1670908	49.52	ug/ml	-0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 99.04%			
62) 2,4,6-Tribromophenol (...	9.882	330	404300	96.20	ug/ml	-0.08
Spiked Amount 100.000	Range 32 - 128		Recovery = 96.20%			
74) Terphenyl-d14	14.578	244	1186328	42.84	ug/ml	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 85.68%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.463	74	389539	52.20	ug/ml	96
3) Pyridine	2.437	79	719435m	54.64	ug/ml	
6) Phenol	4.517	94	1049399	55.69	ug/ml	100
7) Aniline	4.485	93	1120101	53.45	ug/ml	91
8) bis(2-Chloroethyl)ether	4.528	93	837975	45.36	ug/ml	89
9) 2-Chlorophenol	4.581	128	727749	49.79	ug/ml	100
10) 1,3-Dichlorobenzene	4.683	146	819150	49.47	ug/ml	99
11) 1,4-Dichlorobenzene	4.747	146	890545	50.13	ug/ml	99
12) Benzyl Alcohol	4.881	108	484709	47.59	ug/ml	98
13) 1,2-Dichlorobenzene	4.876	146	834751	50.09	ug/ml	99
14) 2-Methylphenol	4.993	108	663496	50.23	ug/ml#	89
15) bis(2-chloroisopropyl)...	4.977	45	1162158	49.68	ug/ml#	73
16) 4-Methylphenol	5.138	108	685087	49.02	ug/ml	97
17) m+p-Cresols	5.138	108	685087	49.02	ug/ml	97
18) n-Nitroso-di-n-propyla...	5.111	70	619437	48.87	ug/ml	99
19) Hexachloroethane	5.170	117	325332	50.19	ug/ml	100
22) Nitrobenzene	5.250	77	846134	53.18	ug/ml	99
23) Isophorone	5.485	82	1463860	50.11	ug/ml	99
24) 2-Nitrophenol	5.555	139	366033	50.03	ug/ml	97
25) 2,4-Dimethylphenol	5.630	122	628502	51.95	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.694	93	826193	51.31	ug/ml	100
27) Benzoic Acid	5.833	105	418622	60.77	ug/ml	97
28) 2,4-Dichlorophenol	5.833	162	555163	52.17	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.886	180	652611	50.97	ug/ml	99
30) Naphthalene	5.972	128	2186582	51.97	ug/ml	100
31) 4-Chloroaniline	6.042	127	794240	51.78	ug/ml	97
32) Hexachlorobutadiene	6.116	225	424957	52.86	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13726.D
Acq On : 9 Oct 2009 9:27 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 13:50:38 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	6.678	107	608022	50.59 ug/ml	99
34) 2-Methylnaphthalene	6.822	142	1317714	51.26 ug/ml	99
35) 1-Methylnaphthalene	6.956	142	1378316	51.20 ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	147006	41.33 ug/ml	97
38) 2,4,6-Trichlorophenol	7.250	196	352336	48.74 ug/ml	99
39) 2,4,5-Trichlorophenol	7.331	196	373638	43.63 ug/ml	100
41) 2-Chloronaphthalene	7.523	162	1206131	49.83 ug/ml	99
42) 2-Nitroaniline	7.716	65	424407	52.15 ug/ml	97
43) Dimethylphthalate	8.042	163	1401877	48.19 ug/ml	100
44) Acenaphthylene	8.186	152	1999582	48.74 ug/ml	100
45) 2,6-Dinitrotoluene	8.122	165	324106	47.35 ug/ml#	79
46) 3-Nitroaniline	8.416	138	326157	51.04 ug/ml	99
47) Acenaphthene	8.486	154	1196173	49.63 ug/ml	100
48) 2,4-Dinitrophenol	8.604	184	127502	55.77 ug/ml	94
49) 4-Nitrophenol	8.871	65	158735	40.64 ug/ml	89
50) Dibenzofuran	8.785	168	1688616	49.05 ug/ml	99
51) 2,4-Dinitrotoluene	8.828	165	392913	47.93 ug/ml	87
52) 2,3,4,6-Tetrachlorophenol	9.053	232	290306	45.28 ug/ml	99
53) Diethylphthalate	9.294	149	1470464	48.72 ug/ml	99
54) Fluorene	9.411	166	1471212	49.03 ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.433	204	714625	46.17 ug/ml	99
56) 4-Nitroaniline	9.545	138	254581	51.96 ug/ml	95
58) 1,2-Diphenylhydrazine	9.738	77	1517434	47.77 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.604	198	197901	48.92 ug/ml	98
60) Diphenylamine	9.684	169	1155824	49.45 ug/ml	100
61) n-Nitrosodiphenylamine	9.684	169	1155824	49.45 ug/ml	100
63) 4-Bromophenyl-phenylether	10.358	248	381997	48.45 ug/ml	98
64) Hexachlorobenzene	10.481	284	409892	47.71 ug/ml	97
65) Pentachlorophenol	10.914	266	134994	46.15 ug/ml	98
66) Phenanthrene	11.262	178	1818654	48.87 ug/ml	100
67) Anthracene	11.363	178	1764625	49.25 ug/ml	99
68) Carbazole	11.738	167	1456291	50.48 ug/ml	99
69) Di-n-butylphthalate	12.562	149	2195337	49.12 ug/ml	99
70) Fluoranthene	13.706	202	1664477	49.33 ug/ml	99
72) Benzidine	14.054	184	628015	55.72 ug/ml#	100
73) Pyrene	14.166	202	1684977	41.23 ug/ml	100
75) Butylbenzylphthalate	15.680	149	789044	43.36 ug/ml	100
76) Benzo(a)anthracene	16.717	228	1585433	48.60 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.723	252	537041	67.16 ug/ml	98
78) Chrysene	16.798	228	1341966	48.80 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.958	149	1061533	43.41 ug/ml	99
81) Di-n-octylphthalate	18.247	149	1663906	53.19 ug/ml#	97
82) Benzo(b)fluoranthene	18.857	252	1116199	51.71 ug/ml	100
83) Benzo(k)fluoranthene	18.905	252	1129599	57.29 ug/ml	99
84) Benzo(a)pyrene	19.440	252	946853	51.38 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.638	276	726118	46.73 ug/ml	97
86) Dibenz(a,h)anthracene	21.665	278	601935	46.67 ug/ml	96
87) Benzo(g,h,i)perylene	22.227	276	522235	44.49 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13726.D
Acq On : 9 Oct 2009 9:27 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 13:50:38 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)

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

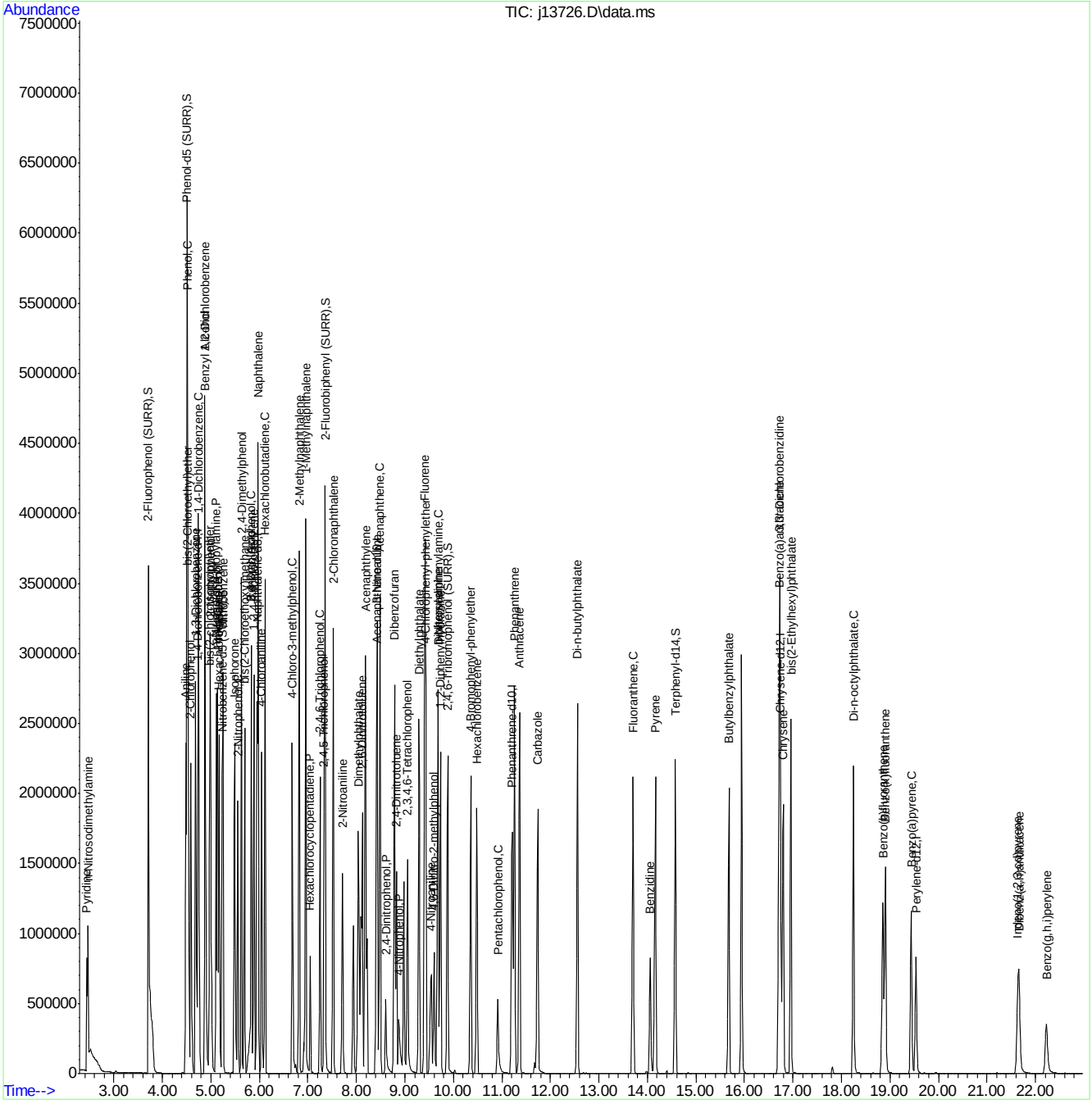
8.6.46

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13726.D
Acq On : 9 Oct 2009 9:27 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 13:50:38 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

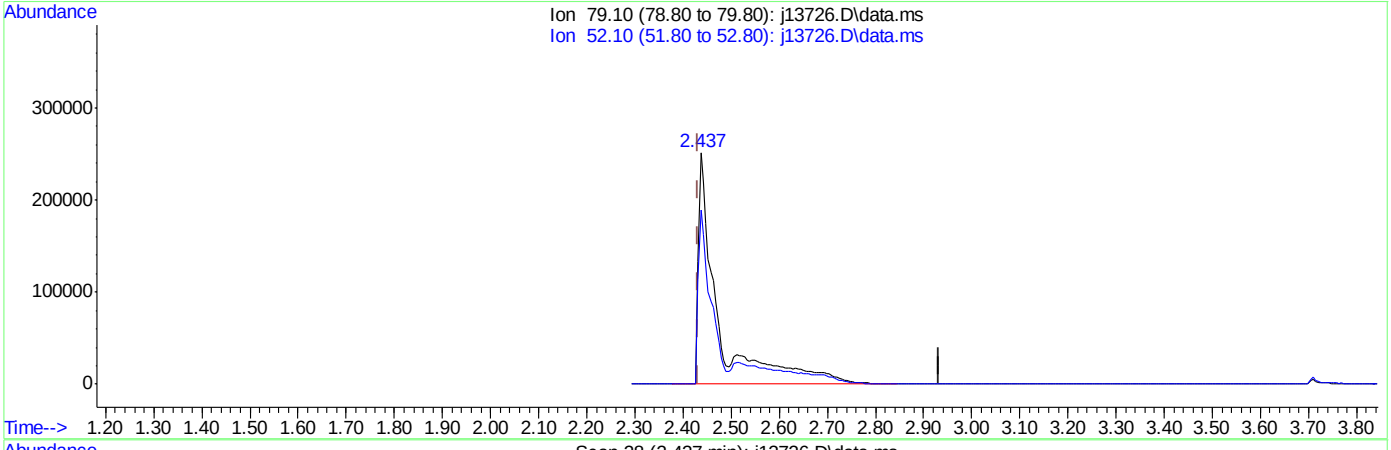


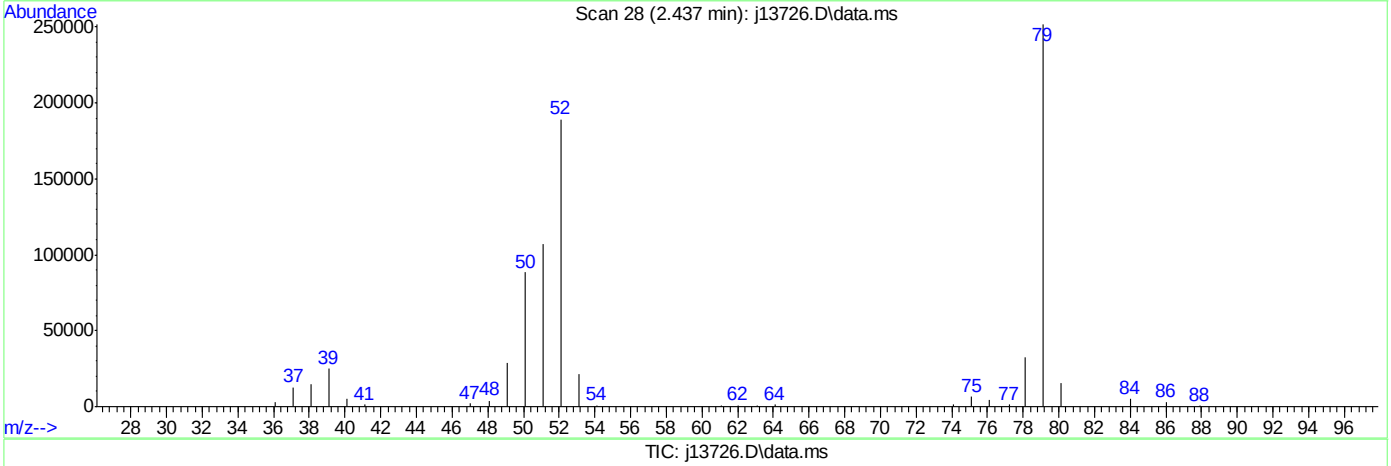
ACCUTEST Laboratories T39314

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13726.D
Acq On : 9 Oct 2009 9:27 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 13:50:38 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration





(3) Pyridine

2.437min (+0.005) 54.64ug/ml m

response 719435

Ion	Exp%	Act%
79.10	100	100
52.10	72.60	47.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13727.D
Acq On : 9 Oct 2009 9:57 am
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 09 10:34:37 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	4.726	152	459785	40.00	ug/ml	0.00
14) Naphthalene-d8	5.940	136	1587580	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	806345	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.192	188	1034626	40.00	ug/ml	0.00
33) Chrysene-d12	16.712	240	490211	40.00	ug/ml	0.00
40) Perylene-d12	19.520	264	335243	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	1730827	100.27	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 100.27%#			
5) Phenol-d5 (SURR)	4.501	99	2177622	99.66	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 99.66%#			
15) Nitrobenzene-d5 (SURR)	5.223	82	980598	50.85	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 101.70%			
22) 2-Fluorobiphenyl (SURR)	7.341	172	1725878	53.52	ug/ml	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 107.04%			
28) 2,4,6-Tribromophenol (...	9.855	330	342566	96.53	ug/ml	-0.02
Spiked Amount 100.000	Range 32 - 128		Recovery = 96.53%			
35) Terphenyl-d14	14.562	244	781116	53.77	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 107.54%			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	867996	50.36	ug/ml	100
19) Resorcinol	6.587	110	465358m	40.62	ug/ml	

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

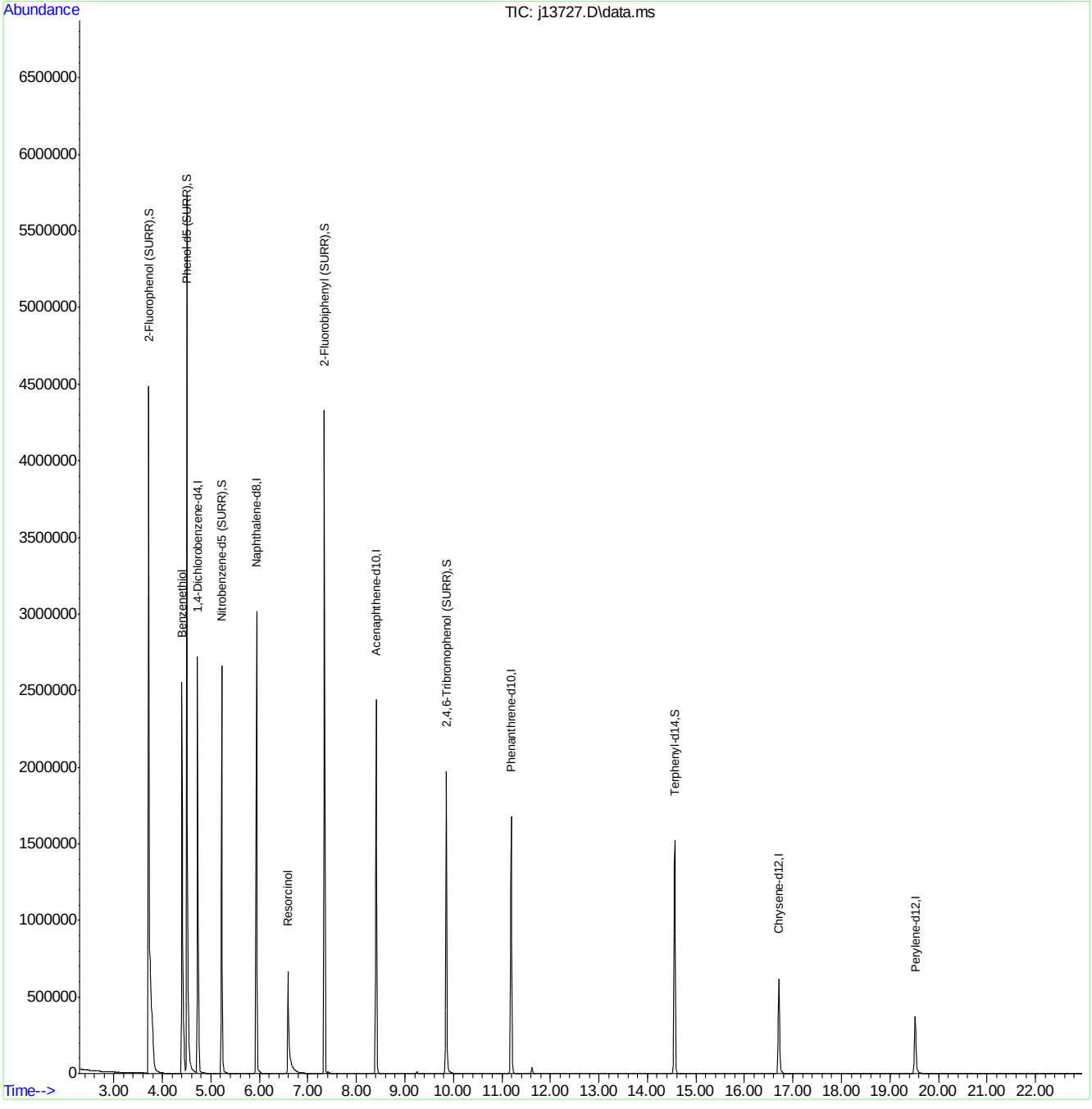
8.6.47

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13727.D
Acq On : 9 Oct 2009 9:57 am
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

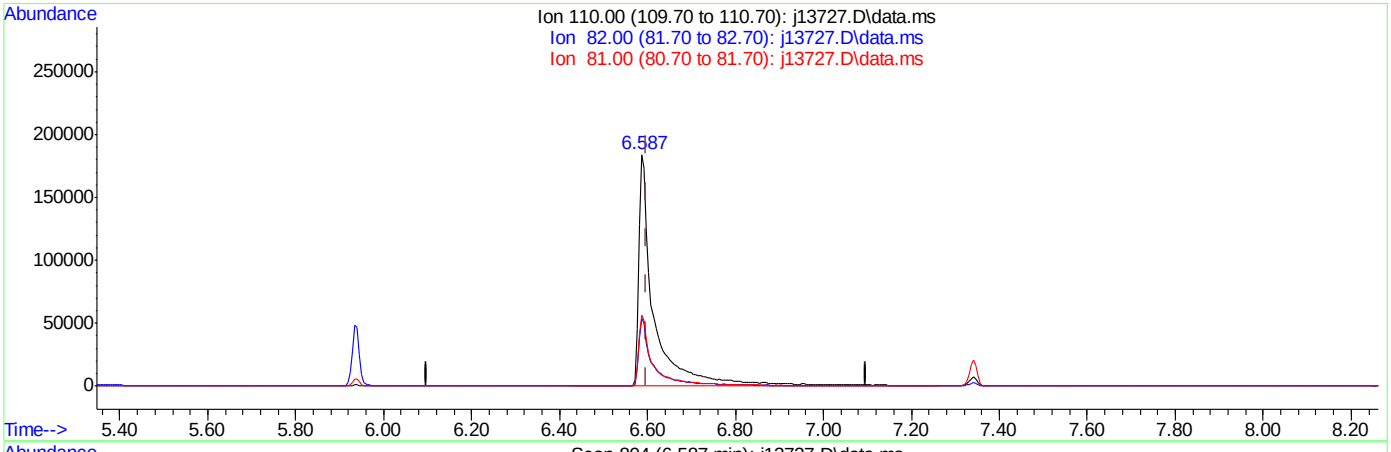
Quant Time: Oct 09 10:34:37 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration

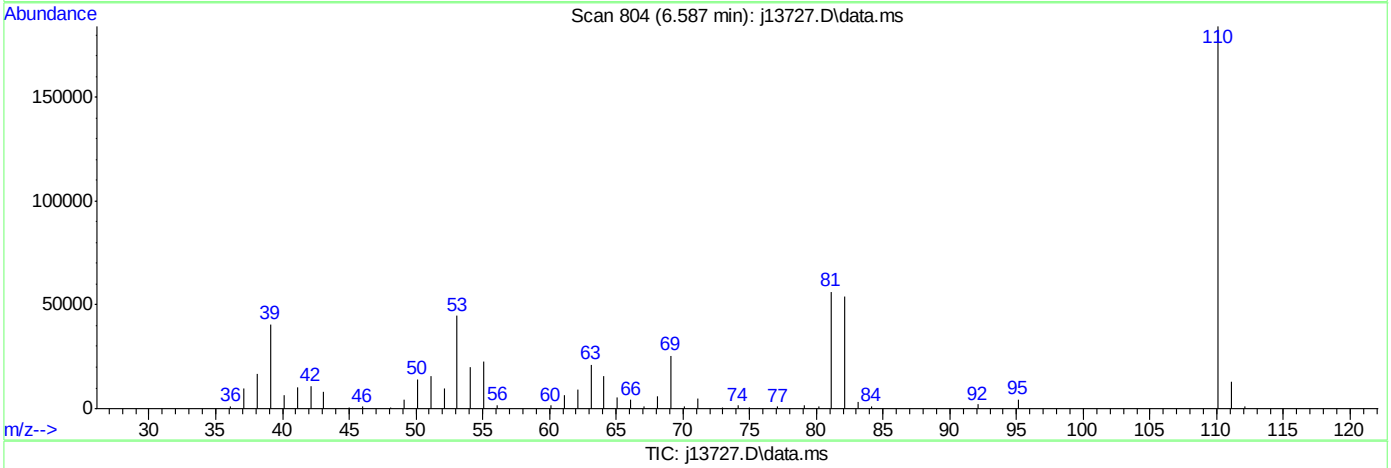


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13727.D
Acq On    :  9 Oct 2009   9:57 am
Operator  : sheilac
Sample    : cc629-50,(Bzth+Resor)
Misc      : op12949,Ej631,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 09 10:34:37 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
```





TIC: j13727.D\data.ms

(19) Resorcinol

6.587min (-0.011) 40.62ug/ml m

response 465358

Ion	Exp%	Act%
110.00	100	100
82.00	27.20	26.27
81.00	29.30	27.33
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13728.D
Acq On : 9 Oct 2009 10:27 am
Operator : sheilac
Sample : cc602-50,(c10+c18)
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 09 11:45:42 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Fri Oct 09 10:40:37 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	886285	40.00	ug/ml	0.00
27) Naphthalene-d8	5.940	136	3887938	40.00	ug/ml	0.00
46) Acenaphthene-d10	8.411	164	1613567	40.00	ug/ml	0.00
69) Phenanthrene-d10	11.192	188	2384253	40.00	ug/ml	0.00
86) Chrysene-d12	16.712	240	1222500	40.00	ug/ml	-0.27
95) Perylene-d12	19.520	264	839169	40.00	ug/ml	-0.28
System Monitoring Compounds						
8) 2-Fluorophenol (SURR)	3.710	112	2673902	83.64	ug/ml	-0.11
Spiked Amount 100.000	Range 10 - 66		Recovery = 83.64%#			
9) Phenol-d5 (SURR)	4.501	99	3754152	95.05	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 95.05%#			
28) Nitrobenzene-d5 (SURR)	5.223	82	1695916	44.43	ug/ml	-0.04
Spiked Amount 50.000	Range 29 - 115		Recovery = 88.86%			
51) 2-Fluorobiphenyl (SURR)	7.347	172	3111998	53.00	ug/ml	-0.05
Spiked Amount 50.000	Range 34 - 113		Recovery = 106.00%			
75) 2,4,6-Tribromophenol (...	9.861	330	663942	94.35	ug/ml	-0.08
Spiked Amount 100.000	Range 32 - 128		Recovery = 94.35%			
89) Terphenyl-d14	14.567	244	1747305	58.92	ug/ml	-0.29
Spiked Amount 50.000	Range 12 - 145		Recovery = 117.84%			
Target Compounds						Qvalue
15) n-Decane	4.608	57	1831169	45.28	ug/ml#	98
79) n-Octadecane	12.920	57	1699713	40.30	ug/ml#	98

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

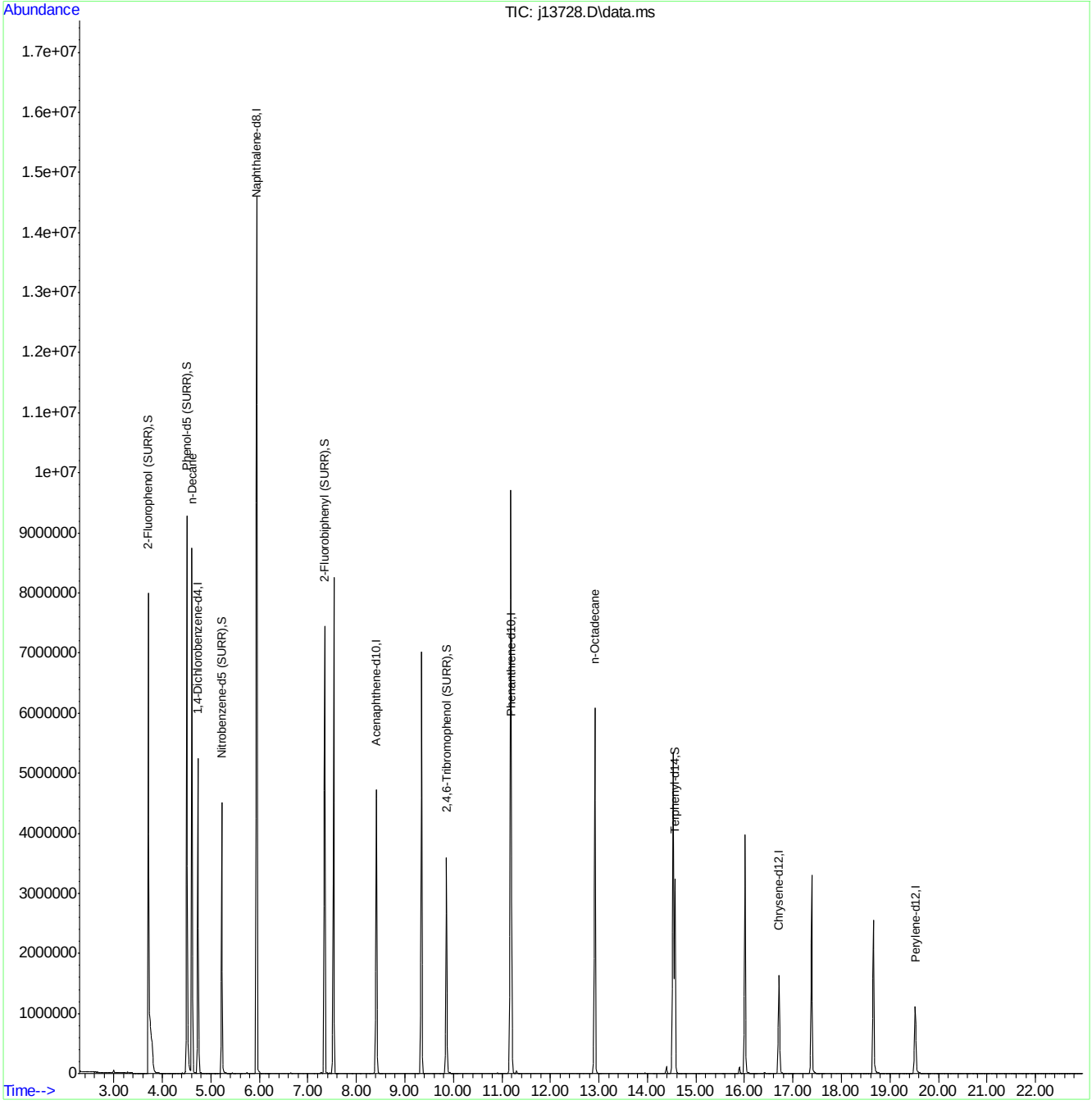
8.6.48

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej631\
Data File : j13728.D
Acq On : 9 Oct 2009 10:27 am
Operator : sheilac
Sample : cc602-50,(c10+c18)
Misc : op12949,Ej631,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 09 11:45:42 2009
Quant Method : C:\msdchem\1\METHODS\ej602c.m
Quant Title :
QLast Update : Fri Oct 09 10:40:37 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39314

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 Amu scan 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 5u x10	
	93	11	-BS				1	✓		
	94	12	↓ -BSd				1	✓		
	95	13	T33169-1				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 Suok	✓

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 X4 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 1.28 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: EH1918

Date: 10/21/2009 P.1 of 2

Analyst Signature: Sheila Chang

Standard Data

Ref #	Description
1	MS799
2	MS8240-5
3	-4
4	-1
5	-2
6	-6
7	-7

Standard Data

Ref #	Description
8	MS794
9	IC-MS835A

Columns: RTX,5ml

SW-846/EPA Method 8270SIM PAH

Initial Cal. Method H102195Pim

Calibration Date: 10/21/09

Injection Volume: 1ul

Solvent ID #: ep091012B3

Solvent: DCM

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

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35512	1	dfbpp	dfbpp				✓	10-48Am	Sc
2	13	2	ICI1918-2.5	HSIMBSPP				✓		
3	14	3	ICI1918-1					✓		
4	15	4	-0.1					✓		
5	16	5	-0.2					✓		
6	17	6	-5					✓		
7	18	7	-10					✓		
8	19	8	ICV1918-2.5					✓		
9	20	9	op13270-mb		W	13270	1	✓	use 8270SC extract 5ul x10	
	21	10	-bs				1	✓		
	22	11	-bsd				1	✓		
	23	12	T39287-1		W	13269	1	✓		
	24	13	T39314-1				1	✓		
	25	14	T39314-3				1	✓	acenaphthene ↑	
	26	15	-4				1	✓	OK	
	27	16	T39314-6,10x				10	✓	acenaphthene 5.52	
	28	17	-3,4x				4	✓	acenaphthene 5.43	
	29	18	op13269-ms				1	✓	T39314-2ms	
	30	19	-msd				1	✓		
	31	20	T39289-1		W	13270	1	✓	IS OK, surr deuterated ↑	no need for sim

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1918

Date: 10/21/2009 P. 2 of 2

Analyst Signature: Sheila Cheng

Standard Data	
Ref #	Description
9	IS-MS8315A

Standard Data	
Ref #	Description

Columns: See page 85

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #: NA

Solvent: NA

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

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
9	H35532	21	T39289-2	HSIMBSPP	W	13270	1	✓	ok	SC
	33	22	-3				1	✓	ok	
	34	23	-4				1	✓		
	35	24	T39423-1				1	✓	9=33 pm IS↓, RRM EH1919 OK, DNR	
	36	25	-2				1	•	10=02 pm IS↓ Sensitivity↑ NO, DNR	
	37	26	-3				1	•	10=31 pm IS↓ SC OK	
	38	27	-4				1	X	11=00 pm outside tune tolerance	
	39	28	-5				1			
	40	29	-6				1			
	41	30	-7				1			

SC 10/21/2009

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1920

Date: 10/23/2009 P.1 of 2

Analyst Signature: Sheila Lane

Standard Data

Ref #	Description
1	MS799
2	MS890-5
3	-4
4	-1
5	-2
6	-6
7	-7

Standard Data

Ref #	Description
8	~~MS890~~ MS794
9	IS-MS890A
10	

Columns: RTX-5Sil

SW-846/EPA Method 8270Simpaah

Initial Cal. Method H102395p.m

Calibration Date: 10/23/09

Injection Volume: 1 µl

Solvent ID #: OP09101283

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	H35579	1	dfopp	dfopp				✓	10=52Am	SL
2	80	2	ICL1920-25	HSIMBSPP				✓		
3	81	3	ICL1920-1					✓		
4	82	4	-0.1					✓		
5	83	5	-0.2					✓		
6	84	6	-5					✓		
7	85	7	-10					✓		
8	86	8	ICV1920-25					✓		
9	87	9	OP13271-MB		W	13271	1	✓		
for SL	88	10	T39646-7				1	✓	IS/SU OK	
10/23/09	89	11	-8				1	✓	OK	
	90	12	-9				1	✓	IS↓↑ RRX10 for IS	
	91	13	-10				1	✓	IS↑, Chro	
	92	14	-11				1	✓	IS↓↑ SU OK acenaphthene, fluorene, phenanthrene, RRX10 for IS, fluoranthene	
	93	15	-10, 4X				4	✓	IS/SU OK naph, acenaphthene↑	
	94	16	-1, 4X				4	✓	IS/SU OK naph, acenaph, fluorene, phen↑	
	95	17	-2, 10X				10	✓	IS OK, SU↑ need RRX40 naph, acenaphthene, fluorene, phenanthrene	
	96	18	-3, 10X				10	✓	IS OK, SU OK, naph↑	
	97	19	-4, 10X				10	✓	IS/SU OK need RRX1, IS↑ SL 10/26 naph, acenaph↑ DNR	
	98	20	5, 10X				10	✓	naph↑ OK ~~PSC~~↑↓	

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1920

Date: 10/23/2009 P. 2 of 2

Analyst Signature: Shirita Chang

Standard Data	
Ref #	Description
9	IS-MS835A

Standard Data	
Ref #	Description

Columns: see page 89

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #:

Solvent:

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

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
9	H35599	21	T39646-6 4x	HSIMBSPP	W S	13271	4	✓	8=23pm, acenaph, fluorene↑ IS/SUOK, acenaph↑	SC
	600	22	↓ -11, 10x SC 10/23/09		SC 10/23/09		10	✓	IS/SUOK 8=41pm	
	1	23	T39513-6		W	13270	1	✓	IS/SUOK, naph, acenaph, phenanthr↑	
	2	24	T39187-3			13269	1	✓	9=42pm, IS/SUOK, naph, acenaph, Fluorene, phenanthrene anthracene	
	3	25	↓ -4, 10x				10	✓	10=11pm, IS/SUOK ↓	
	4	26	T39314-5		↓	↓	1	✓	10=40pm, IS/SUOK ↓ anthracene	
	5	27	T39513-5		W	13270	1	X	11=09pm Butylbenzene RP	
	6	28	↓ -7				1	X		
↓	H35607	29	↓ -8, 10x	↓	↓	↓	10	X	↓	↓

SC 10/23/09

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ602

Date: 9/5/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS786-4A
3	MS751-5A
4	-4
5	-2
6	-8
7	-3

Standard Data

Ref #	Description
8	MS751-6
9	-7
10	MS752
11	IS-MS803

Columns: RXI 5Sil

SW-846/EPA Method 8270C/625 / C10+C18

Initial Cal. Method EJ597 / EJ602C

Calibration Date: 9/1/09 / 9/5/09

Injection Volume: 1 µL

Solvent ID #: OP090824A28

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	J03032	1	dfopp	dfopp				✓	11:25 AM	SC
2	SC 9/5/09 J13033	2	cc597-50	8270JRONS				✓	8270	
3	34	3	ICC602-75					✓	C10+C18	
4	35	4	ICC602-50					✓		
5	36	5	ICC602-5					✓		
6	37	6	-10					✓		
7	38	7	-25					✓		
8	39	8	-100					✓		
9	40	9	-125					✓		
10	41	10	ICV602-50					✓		
11	42	11	op12928-mb		W	12928	1	✓	625	
	43	12	T36823-1				1	✓	comp to A	
	44	13	OP12931-MB		S	12931	1	✓		
	45	14	OP12928-MS		W	12928	1	✓		
	46	15	-MSD				1	✓		
	47	16	op12932-mb		TCLP	12932	1	✓		
	48	17	-bs				1	✓		
	49	18	T36825-1				1	✓		
	50	19	op12932-MS				1	✓		
	51	20	op12932-MSD				1	✓		
	52	21	T36833-1				1	✓		
	53	22	T36897-1				1	✓	T36897-1	
	54	23	T37007-5A		W	12928	1	✓	Rotoconform	
	55	24	-4A				1	✓		
	56	25	-4A 10X				10	✓	DNR	
	57	26	-5A				1	✓		

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ615

Date: 9/23/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4B
3	↓ -5A
4	MS784-2A
5	-8A
6	-3A
7	↓ -6

Standard Data

Ref #	Description
8	MS784-7
9	MS784-4C
10	↓ -5B
11	MS786

Columns: RXi5Sil

SW-846/EPA Method 8270C/625

Initial Cal. Method EJ615 ms

Calibration Date: 9/23/09

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

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

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13332	1	dfopp	dfopp				✓		SC
2	33	2	CC614-50	8270JRONS						
3	34	3	↓ -75							
4	35	4	IC615-5					✓		
5	36	5	-10					✓		
6	37	6	-25					✓		
7	38	7	-100					✓		
8	39	8	↓ -125					✓		
9	40	9	ICC615-50					✓		
10	41	10	IC615-75					✓		
11	42	11	ICV615-50	↓				✓		↓
									SC 9/23/2009	

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ629

Date: 10/08/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4C
3	MS833-5
4	4
5	6
6	12
7	3

Standard Data

Ref #	Description
8	MS833-7
9	MS834
10	IS-MS835

Columns: RXI5Sil

SW-846/EPA Method 8270C/625 / Bzthiol+Resorc

Initial Cal. Method EJ615 MS / EJ629 BZN+R

Calibration Date: 9/23/2009 / 9/8/2009

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

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

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13687	1	dfopp	dfopp				✓		SC
2	88	2	cc615-50	8270JROHS				/		
3	89	3	icc625-50 (Bzthiol+Reso)					/		
4	90	4	ic625-40					/		
5	91	5	-75					/		
6	92	6	-5					/		
7	93	7	-25					/		
8	94	8	-100					/		
9	95	9	icv625-50					/		
10	96	10	op13205-wb		W	13205	1	/		
	97	11	-bs				1	/	Bzthiol Spike	
	98	12	-bsd				1	/		
	99	13	wb				1	/	Sim soil Test	
	700	14	op13205-bs				1	/	~~Bzthi~~ SC 10/8/09 8270 Spike	
	701	15	-bsd				1	/		

SC 10/08/09

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: 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: RX1 5&6

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					✓		
	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, RPR 2R X10, Nbq	

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ631

Date: 10/09/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS884-4C
3	MS833-5
4	MS837-4
5	MS802-4
6	IS-MS815

Standard Data

Ref #	Description

Columns: RX15 SIL

SW-846/EPA Method 8270C/625-/Benzthiol+Resorc.

Initial Cal. Method EJ615MC / EJ629BENZ+RES

Calibration Date: 9/22/09 / 10/08/09

Injection Volume: 1 ul

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	J13725	1	dfopp	dfopp				✓	9:13 Am	SC
2	26	2	CC615-50	8270JRONS				✓		
3	27	3	CC629-50 (Benzthiol+Res)						Benzenthiol+Resorcinol	
4	28	4	CC602-50						C10+C18	
5	29	5	CC548-50						Sec Acetophenone	
6	30	6	mb						Dim. Test	
	31	7	OP13214-mb		W	13214	1	✓		
	32	8	↓ -bs		↓	↓	1	✓	Copy to A, B for C10+C18, + Acetophenone	
	33	9	↓ -bsd		↓	↓	1	✓		
	34	10	T39314-3		W	13205	1	✓		
	35	11	T39417-2		W	13214	1	✓		
	36	12	OP13214-ms		↓	↓	1	✓		
	37	13	↓ -msd		↓	↓	1	✓		
	38	14	T39197-1		W	13162	1	✓	Copy to A, B	
	39	15	T39293-1		W	13214	1	✓	Copy to A, B	
	40	16	T39303-1		↓	↓	1	✓		
	41	17	T39514-2					✓		
	42	18	T39512-1, 10X		W	13205	10	✓		
	43	19	T39187-4, X160				160	✓	for phenol, cresols	
	44	20	T39187-3, 10X				10	✓	phenol ↑ IS 54% SIL OK, ~~OVR~~ ~~Heat for cresols~~	
	45	21	T39314-5, 10X				10	✓	2,4-dimethyl phenol, naph ↑ IS/SIL OK, OVR	
	46	22	T39314-5				1	✓	phenol, cresol, 2,4-dimethyl, naph ↑	
	47	23	T39187-3				1	✓	IS/SIL cresols 2,4-dim. Naph. pyrene	
	48	24	T39187-4, 10X		↓	↓	10	✓	phenol ↑ RS 86% phenol, phenol,	
	49	25	mb (wash)				—			
	50	26	T39512-1		W	13214	1	✓	625 IS/SIL	

MTX = Matrix Designate W for water, S for soil, O for oil.

8.7.8

8

Form: MS014

ACCUTEST Laboratories T39314

BNA LIQUID SAMPLE PREP REPORT

Date: 10/7/09 Method: EPA 3510C Batch#: OP13205 / OP13269 / B8270SLS/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

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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

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

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: T39314
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP7017/GN18368	0.010	0.0	mg/l	0.2	0.198	99.0	90-110%

Associated Samples:
Batch GP7017: T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39314
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP7017/GN18368	T39314-2	mg/l	0.0050 B	0.0050	0.0	0-20%

Associated Samples:
Batch GP7017: T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39314
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP7017/GN18368	T39314-2	mg/l	0.0050 B	0.2	0.19	92.5	90-110%

Associated Samples:
Batch GP7017: T39314-1, T39314-2, T39314-3, T39314-4, T39314-5, T39314-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39314
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W1CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18368
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:23	GN18368-ICV1	1		
12:23	GN18368-ICB1	1		
12:25	GP7017-B1	1		
12:26	GP7017-MB1	1		
12:28	GP7017-S1	1		
12:28	GP7017-D1	1		
12:30	T39314-2	1		
12:31	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:33	T39314-1	1		
12:35	T39314-3	1		
12:36	T39314-4	1		
12:38	GN18368-CCV1	1		
12:38	GN18368-CCB1	1		
12:40	T39314-5	1		
12:41	T39314-6	1		
12:43	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	GN18368-CCV2	1		
12:53	GN18368-CCB2	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:58	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:03	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39314
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W1CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Run ID: GN18368 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18368-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18368-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18368-CCV1	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18368-CCB1	Cyanide	0.0048	0.010	0.0040			
GN18368-CCV2	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18368-CCB2	Cyanide	0.0040 U	0.010	0.0040			

(!) Outside of QC limits

General Chemistry

Raw Data

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0076	0.00		12:18:30 PM
R-4	RBL	0.0000	0.0082	0.00		12:18:55 PM
R-4	RBL	0.0000	0.0086	0.00		12:21:00 PM
R-4	RBL	0.0000	0.0083	0.00		12:21:24 PM
1	ICV	0.1958	0.2303	0.00		12:23:29 PM
2	ICB	-0.0009	-0.0009	0.00	INV,><,LL	12:23:54 PM
3	BSP GP 7017/7018 - B1	0.1976	0.2325	0.00		12:25:59 PM
4	MB GP 7017/7018 - MB1	-0.0011	-0.0012	0.00	INV,><,LL	12:26:24 PM
5	T39314-2S1 GP 7017 - S1	0.1894	0.2228	0.00		12:28:28 PM
6	T39314-2D1 GP 7017 - D1	0.0050	0.0061	0.00		12:28:53 PM
7	T39314-2	0.0050	0.0061	0.00		12:30:58 PM
8	T39596-1	0.0013	0.0017	0.00	><	12:31:23 PM
9	T39596-2	0.0014	0.0019	0.00	><	12:33:28 PM
10	T39314-1	0.0040	0.0049	0.00		12:33:53 PM
11	T39314-3	0.0145	0.0173	0.00		12:35:57 PM
12	T39314-4	0.1251	0.1472	0.00		12:36:22 PM
13	CCV	0.2918	0.3432	0.00		12:38:27 PM
14	CCB	0.0048	0.0058	0.00	EPL	12:38:52 PM
15	T39314-5	0.0170	0.0202	0.00		12:40:57 PM
16	T39314-6	0.0849	0.1000	0.00		12:41:21 PM
17	T39423-1	0.0245	0.0290	0.00		12:43:26 PM
18	T39423-2	0.0529	0.0624	0.00		12:43:51 PM
19	T39513-1S1 GP 7018-S1	0.2440	0.2870	0.00		12:45:56 PM
20	T39513-1D1 GP 7018-D1	0.0755	0.0890	0.00		12:46:21 PM
21	T39513-1	0.1002	0.1180	0.00		12:48:25 PM
22	T39423-3	0.1114	0.1311	0.00		12:48:50 PM
23	T39423-4	0.0628	0.0740	0.00		12:50:55 PM
24	T39423-5	0.0068	0.0082	0.00		12:51:20 PM
25	CCV1	0.2915	0.3428	0.00		12:53:25 PM
26	CCB1	0.0002	0.0004	0.00	><	12:53:50 PM
27	T39423-6	0.0214	0.0254	0.00		12:55:54 PM
28	T39423-7	0.0390	0.0460	0.00		12:56:19 PM
29	T39513-2	0.0150	0.0179	0.00		12:58:24 PM
30	T39513-3	0.0230	0.0272	0.00		12:58:49 PM
31	T39513-4	0.0592	0.0698	0.00		1:00:54 PM
32	CCV2	0.2972	0.3495	0.00		1:01:19 PM

Report Date :10/17/2009 Run Date :10/17/2009 Operator : WESTCO Plan # :20091017002

Plan Description : 101709w1cn

CV 10/17/09

10.1.1 10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
33	**CCB2**	**-0.0005**	**-0.0005**	**0.00**	**INV,><,LL**	**1:03:24 PM**

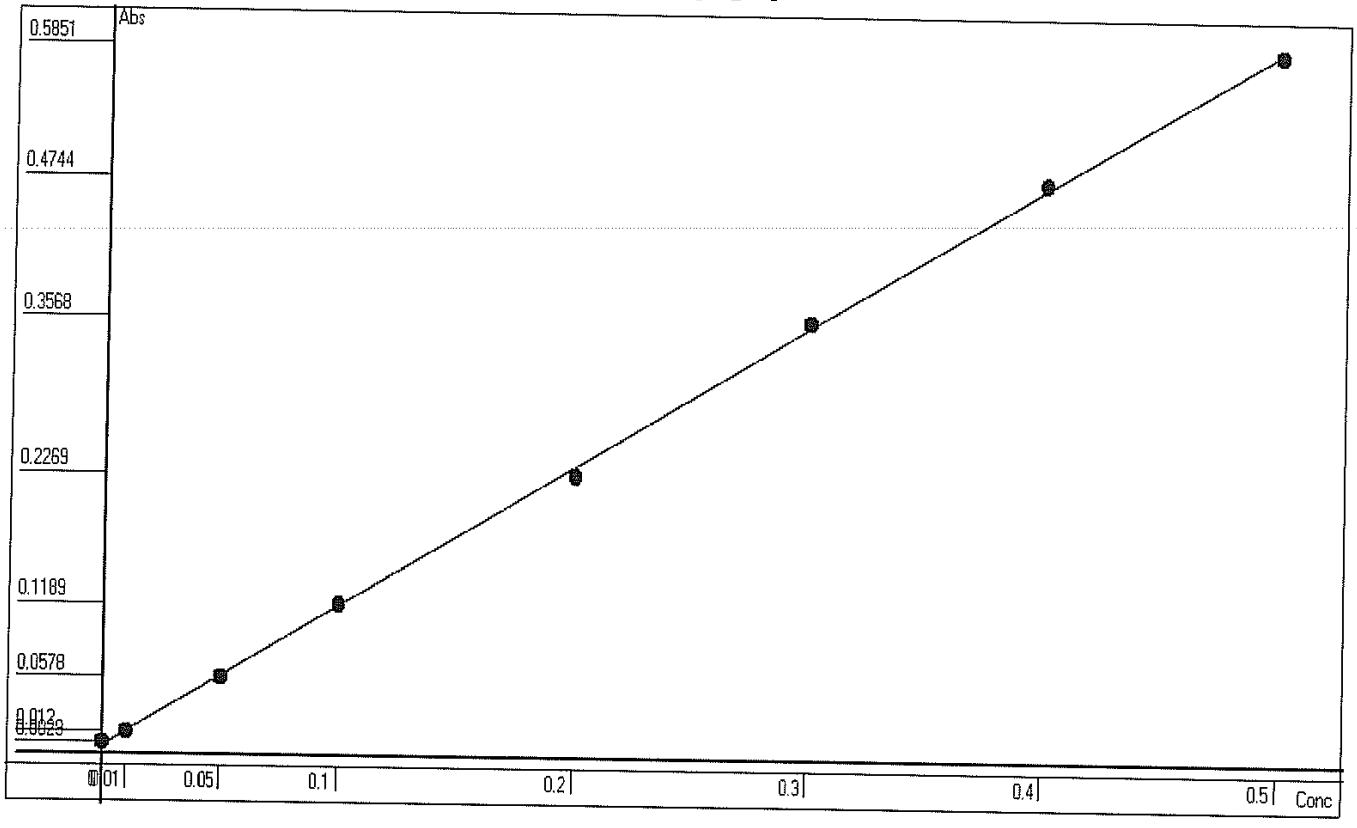
Report Date :10/17/2009 **Run Date :10/17/2009** **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CV 10/17/09

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091017002 Description : [101709w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	0.0029	0	0.0024	0
2	0.0120	0.01	0.0101	1
3	0.0578	0.05	0.0491	-2
4	0.1189	0.1	0.1011	1
5	0.2269	0.2	0.1929	-4
6	0.3568	0.3	0.3035	1
7	0.4744	0.4	0.4035	1
8	0.5851	0.5	0.4977	0

Conc= +0.8508*Abso -0.0001 R^2=0.9996

RBL

Report Date 10/17/2009 Run Date 6/8/2009

ad 10/17/09

10.1.1

10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
1	ICV	Rack A1 - 1	1/1	X
2	ICB	Rack A1 - 2	1/1	X
3	BSP	Rack A1 - 3	1/1	X
4	MB	Rack A1 - 4	1/1	X
5	T39314-2S1	Rack A1 - 5	1/1	X
6	T39314-2D1	Rack A1 - 6	1/1	X
7	T39314-2	Rack A1 - 7	1/1	X
8	T39596-1	Rack A1 - 8	1/1	X
9	T39596-2	Rack A1 - 9	1/1	X
10	T39314-1	Rack A1 - 10	1/1	X
11	T39314-3	Rack A1 - 11	1/1	X
12	T39314-4	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39314-5	Rack A1 - 15	1/1	X
16	T39314-6	Rack A1 - 16	1/1	X
17	T39423-1	Rack B1 - 1	1/1	X
18	T39423-2	Rack B1 - 2	1/1	X
19	T39513-1S1	Rack B1 - 3	1/1	X
20	T39513-1D1	Rack B1 - 4	1/1	X
21	T39513-1	Rack B1 - 5	1/1	X
22	T39423-3	Rack B1 - 6	1/1	X
23	T39423-4	Rack B1 - 7	1/1	X
24	T39423-5	Rack B1 - 8	1/1	X
25	CCV1	Rack B1 - 9	1/1	X
26	CCB1	Rack B1 - 10	1/1	X
27	T39423-6	Rack B1 - 11	1/1	X
28	T39423-7	Rack B1 - 12	1/1	X
29	T39513-2	Rack B1 - 13	1/1	X
30	T39513-3	Rack B1 - 14	1/1	X
31	T39513-4	Rack B1 - 15	1/1	X
32	CCV2	Rack B1 - 16	1/1	X
33	CCB2	Rack C1 - 1	1/1	X

Report Date :10/17/2009 **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CW 10/17/09

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ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1225
Analyst: CV

Sources	
Primary Standard:	GN090108E
Secondary Standard:	GN090114A

Reagent	Reagent ID
Asc. Rect. Mix Buffer	2UTC-65-3
Color Reagent	2UTC-7-2
Chromotropic I	2UTC-7-3

CV

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	2UTC-8-1				
ICB					
RST				ICB, refer to dist. of water log	
MB					
T39914-2S1	5			Agl, refer to distillation log	
-2D1	5				
-2	5				
T39576-1	10				
-2	10				
T39914-1	3				
-3	3				
-4	3				
CCV	2UTC-8-2				
CCB					
T39914-5	3				
-6	3				
T39423-1	3				
-2	3				
T39513-1S1	9			Agl, refer to dist of water log	
-1D1	9				
-1	9				
T39423-3	3				
-4	3				
-5	3				
CCV	2UTC-8-2				
CCB					

P.39

Form: GN059 Rev. 0 8/28/08 QAO

10.1.1 10

ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1205
Analyst: CV

Sources	
Primary Standard:	GN09040SE
Secondary Standard:	GN09011A

Reagent	Reagent ID
Amd. Phen Monitoring	217C-65-3
Cuvette Reagent	217C-7-C
Chloramines T	217C-7-3

CN

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T39429-4	3				
↓ -7	3				
T39519-2	3				
-3	3				
↓ -4	3				
CCV	217C-8-2				
CCB					
					CV 10/17/09
			P.40		

Form: GN059 Rev. 0 8/28/08 QAO

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME		REMARKS
10/16/09	CW	9014/9012	Prep	0.5	1	
1550			LCS	0.5	2	120 mL 247C-6-1
			T39290-101	0.5075	3	20 mL 247C-6-1 ZnOH 1
			-1D1	0.5024	4	1
			-1	0.5070	5	1
			Prep	6 mL	6	
			LCS		7	247C-7-1
			T39314-2D1		8	120 mL 247C-6-1 >12 Neg 5
			-2D1		9	>12 Neg 5
			-2		10	>12 Neg 5
			T39596-1		11	>12 Neg 10
			-2		12	>12 Neg 10
			T39314-1		13	>12 Pos 3
			-3		14	>12 Neg 3
			-4		15	>12 Neg 3
			-5		16	>12 Pos 3
			-6		17	>12 Neg 3
			T39423-1		18	>12 Neg 3
			-2		19	>12 Neg 3
			-3		20	>12 Neg 3
			-4		21	>12 Neg 3
			-5		22	>12 Neg 3
			-6		23	>12 Neg 3

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 207C-65-3

0.95N NaOH: 217C-76-2

Sulfamic Acid GN090622A

Magnesium Chloride GN050722A

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Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/16/09	EV	335.4 / 9012	T39423 - 7	6 mL 26	21712 Neg 3
					1 ml 21TC-6-1
			T39513 - 151	25	>12 Neg 9
			- 1D1	26	>12 Neg 9
			- 1	27	>12 Neg 9
			- 2	28	>12 Neg 3
			- 3	29	>12 Neg 3
			- 4	30	>12 Neg 3
			Blk/Low	31	
			T39596 - 1 low	32	>12 Neg 10
			- 1 low Rep	33	>12 Neg 10
			- 2 low	34	>12 Neg 10
					EV 10/19/09

Reagents for Distillation | **Reagents for Analysis**

Releasing Agent: 21TC-65-2

0.95N NaOH: 21TC-76-2

Magnesium Sulfate GN09 0625A
Calcium Hypochlorite 21TC-55-2
Sodium Sulfate GN09 0216A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

Inorganic Data Review Checklist

Batch ID: GN18368 & GN16369

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T39314-1	T39423-3	
-2	-4	
-3	-5	
-4	-6	
-5	-7	
-6	T39513-1	
T39596-1	-2	
-2	-3	
T39423-1	-4	
-2		

	Checked by 1st review	2nd review
2. **Sample run log- instrument log + prep log** (Check all standard lot, amount used, sample preparation and dilution information, date and signature)	[✓]	[ ]
3. **Instrument performance report(s) (ICB, BSP, CAL. STDS)** (Check method criteria and frequency)	[✓]	[ ]
4. **Calibration (ICV/CCV/CRDL/ICs) summary** (Check a-method criteria; b -frequency; c-printout)	[✓]	[ ]
5. **Blank** (Check contamination (must be below MDL) and frequency)	[✓]	[ ]
6. **Blank Spike/LCS** (Check recovery and footnote and frequency)	[✓]	[ ]
7. **MS/MSD/DUP** (Check recovery and footnote and frequency)	[✓]	[ ]
8. **Holding Time** (Check footnotes for outside HT and makes sure notify Manager)	[✓]	[ ]
9. **Analytical Comments** (Check for any discrepencies)	[ ]	[ ]

1ST Reviewer;(sign/Date) W 10/19/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01

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