New Jersey
ACCUTEST LABORATORIES

12/24/15

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Former Tank Farm, PR

SM02.00.02

Accutest Job Number: JC3254R

Sampling Dates: 09/03/15 - 09/09/15

Report to:

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Total number of pages in report: **727**

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

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Sample Summary

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC3254-1R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	MW-15
JC3254-2R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	MW-17
JC3254-3R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	MW-5
JC3254-4R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	MW-14
JC3254-5R	09/03/15	00:00	NMR	09/05/15	AQ	Trip Blank Water	QC TB 030915
JC3254-6R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	S-35
JC3254-7R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	S-35D
JC3254-8R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	S-36
JC3254-9R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	S-32
JC3254-10R	09/03/15	00:00	NMR	09/05/15	AQ	Ground Water	S-33
JC3254-11R	09/04/15	17:38	NMR	09/10/15	AQ	Ground Water	MW-18
JC3254-12R	09/04/15	18:41	NMR	09/10/15	AQ	Ground Water	MW-3
JC3254-13R	09/08/15	13:05	NMR	09/10/15	AQ	Ground Water	MW-13

Accutest Laboratories

Sample Summary
(continued)

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC3254-14R	09/08/15	13:09	NMR	09/10/15	AQ	Ground Water	MW-13D
JC3254-15R	09/08/15	14:40	NMR	09/10/15	AQ	Ground Water	MW-7
JC3254-16DR	09/08/15	15:47	NMR	09/10/15	AQ	Water Dup/MSD	MW-16 MSD
JC3254-16R	09/08/15	15:42	NMR	09/10/15	AQ	Ground Water	MW-16
JC3254-16SR	09/08/15	15:45	NMR	09/10/15	AQ	Water Matrix Spike	MW-16 MS
JC3254-17R	09/09/15	15:42	NMR	09/10/15	AQ	Ground Water	MW-12
JC3254-18R	09/09/15	15:51	NMR	09/10/15	AQ	Ground Water	MW-12D
JC3254-19R	09/09/15	15:51	NMR	09/10/15	AQ	Trip Blank Water	QC TB 090915
JC3254-20R	09/04/15	12:46	NMR	09/10/15	AQ	Ground Water	A-IR(4)
JC3254-21R	09/04/15	13:39	NMR	09/10/15	AQ	Ground Water	A-2R(2)
JC3254-22R	09/04/15	14:32	NMR	09/10/15	AQ	Ground Water	VP-1
JC3254-23R	09/04/15	16:16	NMR	09/10/15	AQ	Ground Water	VP-2
JC3254-24R	09/07/15	12:40	NMR	09/10/15	AQ	Ground Water	D-1R

Accutest Laboratories

Sample Summary
(continued)

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC3254-25DR	09/07/15	13:51	NMR	09/10/15	AQ	Water Dup/MSD	S-31R(2) MSD
JC3254-25R	09/07/15	13:42	NMR	09/10/15	AQ	Ground Water	S-31R(2)
JC3254-25SR	09/07/15	13:46	NMR	09/10/15	AQ	Water Matrix Spike	S-31R(2) MS
JC3254-26R	09/07/15	14:48	NMR	09/10/15	AQ	Ground Water	S-29R
JC3254-27R	09/07/15	16:23	NMR	09/10/15	AQ	Ground Water	E-1R
JC3254-28R	09/07/15	17:31	NMR	09/10/15	AQ	Ground Water	G-1R(3)
JC3254-29R	09/09/15	13:11	NMR	09/10/15	AQ	Ground Water	S-34
JC3254-30R	09/09/15	10:58	NMR	09/10/15	AQ	Equipment Blank	EB090915
JC3254-31R	09/09/15	15:51	NMR	09/10/15	AQ	Ground Water	TB090915

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC3254R
Site:	BMSMC, Former Tank Farm, PR	**Report Date**	12/24/2015 11:55:11 A

Between 09/05/2015 and 09/10/2015, 29 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 3.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC3254R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2B5985

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3137-3MS, JC3137-3MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Blank Spike Recovery(s) for Tert Butyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JC3254-5R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-5R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.
- JC3254-4R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-4R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-4R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.
- JC3254-2R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-5R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3137-3MSD. Outside control limits due to matrix interference.
- JC3254-2R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.
- JC3254-2R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ **Batch ID:** V2B5988

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-25RMS, JC3254-25RMSD were used as the QC samples indicated.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2B5988

- Sample(s) JC3254-24R have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range. Estimated value, this compound was re-logged outside the holding time per client's request.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JC3254-24R for 1,4-Dioxane: Estimated value, this compound was re-logged outside the holding time per client's request.

Matrix: AQ **Batch ID:** V2B5989

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-16RMS, JC3254-16RMSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3254-16RMSD. Outside control limits due to matrix interference
- JC3254-19R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-16R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-17R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-18R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-3R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ **Batch ID:** V2B5990

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3538-8MS, JC3538-8MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive reported in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- JC3254-10R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-13R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ **Batch ID:** V2B5992

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC3254-20RMS, JC3254-20RMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2B5992

- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3254-20RMSD. Outside control limits due to matrix interference.
- JC3254-20R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-28R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-11R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ **Batch ID:** V2B5994

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC3669-14MS, JC3669-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,2-Dichloroethane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside control limits. No associated sample required/reported for this compound.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3669-14MSD. Outside control limits due to matrix interference.
- JC3254-14R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-14R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-15R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-15R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-12R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-12R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ **Batch ID:** V2B5996

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3795-7MS, JC3795-7MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dichloroethane, IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive reported in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,2-Dichloroethane, IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3795-7MSD. Outside control limits due to matrix interference.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ	Batch ID: V2B5996

- JC3254-9R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2D6208

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-6MS, JC3254-7DUP were used as the QC samples indicated.
- JC3254-1R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-1R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-1R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC3254-1R	**MW-15**					
n-Butylbenzene		2.1	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		2.2	2.0	0.21	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.39 J	1.0	0.19	ug/l	SW846 8260C
Isopropylbenzene		42.6	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.45 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		22.0	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		17.7	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		466	10	2.8	ug/l	SW846 8260C
Tetrahydrofuran [a]		3.5 J	10	1.4	ug/l	SW846 8260C
Xylene (total)		0.21 J	1.0	0.17	ug/l	SW846 8260C
JC3254-2R	**MW-17**					
n-Butylbenzene		0.45 J	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		0.73 J	2.0	0.21	ug/l	SW846 8260C
Isopropylbenzene		4.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.26 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		2.1	2.0	0.21	ug/l	SW846 8260C
JC3254-3R	**MW-5**					
Acetone		6.1 J	10	3.3	ug/l	SW846 8260C
n-Butylbenzene		0.44 J	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		0.47 J	2.0	0.21	ug/l	SW846 8260C
Chlorobenzene		0.46 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.68 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.30 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		3.5	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		28.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		10.4	1.0	0.24	ug/l	SW846 8260C
Naphthalene [a]		0.20 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		10.3	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		333	10	2.8	ug/l	SW846 8260C
Toluene		0.51 J	1.0	0.16	ug/l	SW846 8260C
m,p-Xylene		10.9	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.51 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		11.4	1.0	0.17	ug/l	SW846 8260C
JC3254-4R	**MW-14**					
Chlorobenzene		0.77 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.43 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.30 J	1.0	0.27	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		0.31 J	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.29 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.47 J	1.0	0.24	ug/l	SW846 8260C
m,p-Xylene		0.61 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.61 J	1.0	0.17	ug/l	SW846 8260C
JC3254-5R	**QC TB 030915**					
No hits reported in this sample.						
JC3254-6R	**S-35**					
1,4-Dioxane		833	130	41	ug/l	SW846 8260C
Ethyl Ether		0.66 J	2.0	0.55	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.8	1.0	0.24	ug/l	SW846 8260C
JC3254-7R	**S-35D**					
1,4-Dioxane		832	130	41	ug/l	SW846 8260C
Ethyl Ether		0.74 J	2.0	0.55	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.8	1.0	0.24	ug/l	SW846 8260C
JC3254-8R	**S-36**					
Di-Isopropyl ether [a]		0.39 J	2.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		5.8	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.75 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		1.0 J	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		6.1 J	10	2.8	ug/l	SW846 8260C
JC3254-9R	**S-32**					
Ethylbenzene		44800	1000	270	ug/l	SW846 8260C
Isopropylbenzene		251	100	23	ug/l	SW846 8260C
n-Propylbenzene		60.3 J	200	21	ug/l	SW846 8260C
Toluene		49.7 J	100	16	ug/l	SW846 8260C
m,p-Xylene		69200	1000	380	ug/l	SW846 8260C
o-Xylene		3620	100	17	ug/l	SW846 8260C
Xylene (total)		72800	1000	170	ug/l	SW846 8260C
JC3254-10R	**S-33**					
Chlorobenzene		0.38 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether		1.1 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane		44.3 J	130	41	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene	38.5	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether	7.2	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene	6.1	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol	44.1	10	2.8	ug/l	SW846 8260C
JC3254-11R MW-18					
n-Butylbenzene	2.2	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene	2.6	2.0	0.21	ug/l	SW846 8260C
Chlorobenzene	1.1	1.0	0.19	ug/l	SW846 8260C
Cyclohexane	1.0 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene	0.48 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene	0.38 J	1.0	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	0.27 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene	6.4	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane	3.0 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether	0.26 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene	5.2	2.0	0.21	ug/l	SW846 8260C
Toluene	0.31 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride	0.25 J	1.0	0.15	ug/l	SW846 8260C
m,p-Xylene	1.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene	0.75 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)	2.4	1.0	0.17	ug/l	SW846 8260C
JC3254-12R MW-3					
Benzene	0.36 J	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene	10.5	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene	11.6	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene	0.77 J	2.0	0.28	ug/l	SW846 8260C
Chlorobenzene	0.49 J	1.0	0.19	ug/l	SW846 8260C
Cyclohexane	4.4 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene	0.39 J	1.0	0.19	ug/l	SW846 8260C
Ethylbenzene	0.93 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene	26.2	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane	4.8 J	5.0	0.22	ug/l	SW846 8260C
Naphthalene [a]	4.9 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene	44.3	2.0	0.21	ug/l	SW846 8260C
Toluene	0.48 J	1.0	0.16	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	1.0 J	2.0	0.22	ug/l	SW846 8260C
m,p-Xylene	0.91 J	1.0	0.38	ug/l	SW846 8260C
o-Xylene	1.0	1.0	0.17	ug/l	SW846 8260C
Xylene (total)	1.9	1.0	0.17	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC3254-13R	**MW-13**					
1,2-Dichlorobenzene		0.44 J	1.0	0.19	ug/l	SW846 8260C
Freon 113		8.6	5.0	0.52	ug/l	SW846 8260C
JC3254-14R	**MW-13D**					
1,2-Dichlorobenzene		0.50 J	1.0	0.19	ug/l	SW846 8260C
Freon 113		9.3	5.0	0.52	ug/l	SW846 8260C
JC3254-15R	**MW-7**					
Chlorobenzene		1.2	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		6.7	1.0	0.19	ug/l	SW846 8260C
1,3-Dichlorobenzene		0.24 J	1.0	0.23	ug/l	SW846 8260C
1,4-Dichlorobenzene		1.2	1.0	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.96 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		33.9	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		1.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.40 J	1.0	0.24	ug/l	SW846 8260C
Trichloroethene		0.35 J	1.0	0.22	ug/l	SW846 8260C
m,p-Xylene		31.3	1.0	0.38	ug/l	SW846 8260C
o-Xylene		1.1	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		32.3	1.0	0.17	ug/l	SW846 8260C
JC3254-16R	**MW-16**					
1,2-Dichlorobenzene		1.5	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.48 J	1.0	0.27	ug/l	SW846 8260C
JC3254-17R	**MW-12**					
Benzene		0.97	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene		10.9	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		10.5	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene		0.59 J	2.0	0.28	ug/l	SW846 8260C
Cyclohexane		4.8 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.26 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.41 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		2.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		10.5	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		4.3 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.48 J	1.0	0.24	ug/l	SW846 8260C
Naphthalene [a]		2.3 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		24.3	2.0	0.21	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		0.19 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.39 J	1.0	0.15	ug/l	SW846 8260C
o-Xylene		0.31 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		0.65 J	1.0	0.17	ug/l	SW846 8260C
JC3254-18R	**MW-12D**					
Benzene		0.98	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene		10.7	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		10.8	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene		0.60 J	2.0	0.28	ug/l	SW846 8260C
Cyclohexane		4.9 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.25 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.39 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		2.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		10.8	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		4.4 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.56 J	1.0	0.24	ug/l	SW846 8260C
Naphthalene [a]		2.2 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		24.5	2.0	0.21	ug/l	SW846 8260C
Toluene		0.17 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.43 J	1.0	0.15	ug/l	SW846 8260C
o-Xylene		0.31 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		0.66 J	1.0	0.17	ug/l	SW846 8260C
JC3254-19R	**QC TB 090915**					
No hits reported in this sample.						
JC3254-20R	**A-IR(4)**					
Ethylbenzene		2820	25	6.7	ug/l	SW846 8260C
Isopropylbenzene		46.4	25	5.8	ug/l	SW846 8260C
Methyl Tert Butyl Ether		153	25	5.9	ug/l	SW846 8260C
4-Methyl-2-pentanone(MIBK)		85.3 J	130	25	ug/l	SW846 8260C
n-Propylbenzene		10.8 J	50	5.3	ug/l	SW846 8260C
Toluene		49.1	25	4.1	ug/l	SW846 8260C
m,p-Xylene		8710	25	9.4	ug/l	SW846 8260C
o-Xylene		779	25	4.1	ug/l	SW846 8260C
Xylene (total)		9490	25	4.1	ug/l	SW846 8260C
JC3254-21R	**A-2R(2)**					
Ethylbenzene		19.9	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		0.86 J	1.0	0.23	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether		4.7	1.0	0.24	ug/l	SW846 8260C
Toluene		0.68 J	1.0	0.16	ug/l	SW846 8260C
m,p-Xylene		89.8	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		89.8	1.0	0.17	ug/l	SW846 8260C
JC3254-22R	**VP-1**					
Chlorobenzene		0.20 J	1.0	0.19	ug/l	SW846 8260C
Ethylbenzene		3.7	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		50.3	1.0	0.23	ug/l	SW846 8260C
n-Propylbenzene		10	2.0	0.21	ug/l	SW846 8260C
m,p-Xylene		3.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.18 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		3.7	1.0	0.17	ug/l	SW846 8260C
JC3254-23R	**VP-2**					
Chlorobenzene		0.55 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.24 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dioxane		1040	130	41	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.0	1.0	0.24	ug/l	SW846 8260C
JC3254-24R	**D-1R**					
Chlorobenzene		0.20 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether		0.30 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane [b]		10300 E	130	41	ug/l	SW846 8260C
Ethylbenzene		0.30 J	1.0	0.27	ug/l	SW846 8260C
Methyl Tert Butyl Ether		2.6	1.0	0.24	ug/l	SW846 8260C
m,p-Xylene		0.65 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.65 J	1.0	0.17	ug/l	SW846 8260C
JC3254-25R	**S-31R(2)**					
Benzene		2.6 J	5.0	2.4	ug/l	SW846 8260C
Ethylbenzene		3740	100	27	ug/l	SW846 8260C
Isopropylbenzene		28.9	10	2.3	ug/l	SW846 8260C
Methyl Tert Butyl Ether		11.0	10	2.4	ug/l	SW846 8260C
n-Propylbenzene		6.2 J	20	2.1	ug/l	SW846 8260C
Tert Butyl Alcohol		65.3 J	100	28	ug/l	SW846 8260C
JC3254-26R	**S-29R**					
Chlorobenzene		0.27 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether		1.8 J	2.0	0.26	ug/l	SW846 8260C

Summary of Hits

Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		13.9	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.63 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		2.3	2.0	0.21	ug/l	SW846 8260C
JC3254-27R	**E-1R**					
Benzene		0.30 J	0.50	0.24	ug/l	SW846 8260C
Di-Isopropyl ether		0.74 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane		92.5 J	130	41	ug/l	SW846 8260C
Isopropylbenzene		1.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		8.4	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		0.27 J	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		33.5	10	2.8	ug/l	SW846 8260C
m,p-Xylene		0.75 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.75 J	1.0	0.17	ug/l	SW846 8260C
JC3254-28R	**G-1R(3)**					
Ethylbenzene		28200	200	54	ug/l	SW846 8260C
Toluene		96.0 J	200	32	ug/l	SW846 8260C
m,p-Xylene		79800	200	75	ug/l	SW846 8260C
o-Xylene		5500	200	33	ug/l	SW846 8260C
Xylene (total)		85300	200	33	ug/l	SW846 8260C
JC3254-29R	**S-34**					
Di-Isopropyl ether		0.81 J	2.0	0.26	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.5	1.0	0.24	ug/l	SW846 8260C
Tert Butyl Alcohol		18.4	10	2.8	ug/l	SW846 8260C

JC3254-30R **EB090915**

No hits reported in this sample.

JC3254-31R **TB090915**

No hits reported in this sample.

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
(b) Estimated value, this compound was re-logged outside the holding time per client's request.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	JC3254-1R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147903R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol [a]	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	2.1	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	2.2	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether [a]	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.39	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-15		
Lab Sample ID:	JC3254-1R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	42.6	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.45	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	22.0	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	17.7	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	466	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	3.5	10	1.4	ug/l	J
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-15		
Lab Sample ID:	JC3254-1R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.21	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	109%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-17		
Lab Sample ID:	JC3254-2R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134317R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	0.45	2.0	0.14	ug/l	J
135-98-8	sec-Butylbenzene	0.73	2.0	0.21	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-17		
Lab Sample ID:	JC3254-2R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	4.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	2.1	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol [b]	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-17		
Lab Sample ID:	JC3254-2R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		76-120%
17060-07-0	1,2-Dichloroethane-D4	105%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
(b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = 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:	MW-5		
Lab Sample ID:	JC3254-3R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134408R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	6.1	10	3.3	ug/l	J
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	0.44	2.0	0.14	ug/l	J
135-98-8	sec-Butylbenzene	0.47	2.0	0.21	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.46	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.68	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.30	1.0	0.27	ug/l	J

ND = 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:	MW-5		
Lab Sample ID:	JC3254-3R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	3.5	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	28.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.4	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	0.20	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	10.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	333	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.51	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	10.9	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.51	1.0	0.17	ug/l	J

ND = 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:	MW-5		
Lab Sample ID:	JC3254-3R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	11.4	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-14		
Lab Sample ID:	JC3254-4R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134319R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.77	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.43	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.30	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-14		
Lab Sample ID:	JC3254-4R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	0.31	1.0	0.23	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.29	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.47	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol [b]	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.61	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-14		
Lab Sample ID:	JC3254-4R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.61	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
(b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = 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:	QC TB 030915		
Lab Sample ID:	JC3254-5R	**Date Sampled:**	09/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134320R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	QC TB 030915		
Lab Sample ID:	JC3254-5R	**Date Sampled:**	09/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol [b]	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	QC TB 030915		
Lab Sample ID:	JC3254-5R	**Date Sampled:**	09/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
(b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = 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:	S-35		
Lab Sample ID:	JC3254-6R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147889R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol [a]	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether [a]	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

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Report of Analysis

Client Sample ID:	S-35		
Lab Sample ID:	JC3254-6R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	833	130	41	ug/l	
60-29-7	Ethyl Ether	0.66	2.0	0.55	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-35		
Lab Sample ID:	JC3254-6R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	109%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	112%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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

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Report of Analysis

Client Sample ID:	S-35D		
Lab Sample ID:	JC3254-7R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147890R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol [a]	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether [a]	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	S-35D		
Lab Sample ID:	JC3254-7R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	832	130	41	ug/l	
60-29-7	Ethyl Ether	0.74	2.0	0.55	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-35D		
Lab Sample ID:	JC3254-7R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		76-120%
17060-07-0	1,2-Dichloroethane-D4	108%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	111%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	S-36		
Lab Sample ID:	JC3254-8R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147891R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol [a]	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether [a]	0.39	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	S-36		
Lab Sample ID:	JC3254-8R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	5.8	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.75	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	1.0	2.0	0.21	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	6.1	10	2.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-36		
Lab Sample ID:	JC3254-8R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	110%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	112%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	S-32		
Lab Sample ID:	JC3254-9R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134560R.D	100	09/17/15	BK	n/a	n/a	V2B5996
Run #2	2B134561R.D	1000	09/17/15	BK	n/a	n/a	V2B5996

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	10000	3100	ug/l	
67-64-1	Acetone	ND	1000	330	ug/l	
71-43-2	Benzene	ND	50	24	ug/l	
74-97-5	Bromochloromethane	ND	100	37	ug/l	
75-27-4	Bromodichloromethane	ND	100	23	ug/l	
75-25-2	Bromoform	ND	100	23	ug/l	
74-83-9	Bromomethane	ND	200	42	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	560	ug/l	
71-36-3	n-Butyl Alcohol	ND	25000	4200	ug/l	
104-51-8	n-Butylbenzene	ND	200	14	ug/l	
135-98-8	sec-Butylbenzene	ND	200	21	ug/l	
98-06-6	tert-Butylbenzene	ND	200	28	ug/l	
75-15-0	Carbon disulfide	ND	200	25	ug/l	
56-23-5	Carbon tetrachloride	ND	100	22	ug/l	
108-90-7	Chlorobenzene	ND	100	19	ug/l	
75-45-6	Chlorodifluoromethane	ND	500	44	ug/l	
75-00-3	Chloroethane	ND	100	34	ug/l	
67-66-3	Chloroform	ND	100	19	ug/l	
74-87-3	Chloromethane	ND	100	41	ug/l	
110-82-7	Cyclohexane	ND	500	28	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	99	ug/l	
124-48-1	Dibromochloromethane	ND	100	15	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	90	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	17	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	18	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	27	ug/l	

ND = 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:	S-32		
Lab Sample ID:	JC3254-9R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	100	65	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	39	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	19	ug/l	
123-91-1	1,4-Dioxane	ND	13000	4100	ug/l	
60-29-7	Ethyl Ether	ND	200	55	ug/l	
100-41-4	Ethylbenzene	44800 [a]	1000	270	ug/l	
76-13-1	Freon 113	ND	500	52	ug/l	
67-72-1	Hexachloroethane	ND	200	28	ug/l	
591-78-6	2-Hexanone	ND	500	170	ug/l	
123-51-3	IsoAmyl Alcohol	ND	5000	2400	ug/l	
78-83-1	Isobutyl alcohol	ND	5000	1800	ug/l	
98-82-8	Isopropylbenzene	251	100	23	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	21	ug/l	
79-20-9	Methyl Acetate	ND	500	190	ug/l	
108-87-2	Methylcyclohexane	ND	500	22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	100	ug/l	
75-09-2	Methylene chloride	ND	200	73	ug/l	
91-20-3	Naphthalene [b]	ND	500	20	ug/l	
103-65-1	n-Propylbenzene	60.3	200	21	ug/l	J
100-42-5	Styrene	ND	100	27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	1000	280	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	200	19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	200	62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	21	ug/l	
127-18-4	Tetrachloroethene	ND	100	40	ug/l	
109-99-9	Tetrahydrofuran	ND	1000	140	ug/l	
108-88-3	Toluene	49.7	100	16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	100	23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	21	ug/l	
79-01-6	Trichloroethene	ND	100	22	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	22	ug/l	
75-01-4	Vinyl chloride	ND	100	15	ug/l	
	m,p-Xylene	69200 [a]	1000	380	ug/l	
95-47-6	o-Xylene	3620	100	17	ug/l	

ND = 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:	S-32		
Lab Sample ID:	JC3254-9R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	72800 [a]	1000	170	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	119%	119%	73-122%
2037-26-5	Toluene-D8	105%	103%	84-119%
460-00-4	4-Bromofluorobenzene	104%	103%	78-117%

(a) Result is from Run# 2
(b) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	S-33		
Lab Sample ID:	JC3254-10R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134438R.D	1	09/14/15	BK	n/a	n/a	V2B5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol [a]	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.38	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	1.1	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	S-33		
Lab Sample ID:	JC3254-10R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	44.3	130	41	ug/l	J
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	38.5	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.2	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	6.1	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	44.1	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-33		
Lab Sample ID:	JC3254-10R	**Date Sampled:**	09/03/15
Matrix:	AQ - Ground Water	**Date Received:**	09/05/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-18		
Lab Sample ID:	JC3254-11R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134478R.D	1	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol [a]	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	2.2	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	2.6	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	1.1	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.0	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.48	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.38	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.27	1.0	0.27	ug/l	J

ND = 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:	MW-18		
Lab Sample ID:	JC3254-11R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	6.4	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	3.0	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.26	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	5.2	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.31	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.25	1.0	0.15	ug/l	J
	m,p-Xylene	1.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.75	1.0	0.17	ug/l	J

ND = 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:	MW-18		
Lab Sample ID:	JC3254-11R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	2.4	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-3		
Lab Sample ID:	JC3254-12R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134538R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.36	0.50	0.24	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.5	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	11.6	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.77	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.49	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.4	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.39	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-3		
Lab Sample ID:	JC3254-12R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	0.93	1.0	0.27	ug/l	J
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	26.2	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	4.8	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	4.9	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	44.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	0.48	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.0	2.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.91	1.0	0.38	ug/l	J
95-47-6	o-Xylene	1.0	1.0	0.17	ug/l	

ND = 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:	MW-3		
Lab Sample ID:	JC3254-12R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	1.9	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-13		
Lab Sample ID:	JC3254-13R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134439R.D	1	09/14/15	BK	n/a	n/a	V2B5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol [a]	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.44	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-13		
Lab Sample ID:	JC3254-13R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	8.6	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-13		
Lab Sample ID:	JC3254-13R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-13D		
Lab Sample ID:	JC3254-14R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134536R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-13D		
Lab Sample ID:	JC3254-14R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	9.3	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-13D		
Lab Sample ID:	JC3254-14R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-7		
Lab Sample ID:	JC3254-15R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134537R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	1.2	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	6.7	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24	1.0	0.23	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.96	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JC3254-15R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	33.9	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	1.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran [a]	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.35	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	31.3	1.0	0.38	ug/l	
95-47-6	o-Xylene	1.1	1.0	0.17	ug/l	

ND = 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:	MW-7		
Lab Sample ID:	JC3254-15R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	32.3	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-16		
Lab Sample ID:	JC3254-16R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134400R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	1.5	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.48	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	MW-16		
Lab Sample ID:	JC3254-16R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	MW-16		
Lab Sample ID:	JC3254-16R	**Date Sampled:**	09/08/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-12		
Lab Sample ID:	JC3254-17R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134401R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.97	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.9	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	10.5	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.59	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.8	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.26	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.41	1.0	0.27	ug/l	J

ND = 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:	MW-12		
Lab Sample ID:	JC3254-17R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	10.5	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	4.3	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.48	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	2.3	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	24.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.19	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.39	1.0	0.15	ug/l	J
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.31	1.0	0.17	ug/l	J

ND = 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:	MW-12		
Lab Sample ID:	JC3254-17R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.65	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	MW-12D		
Lab Sample ID:	JC3254-18R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134402R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.98	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.7	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	10.8	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.60	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.9	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.25	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.39	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D		
Lab Sample ID:	JC3254-18R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	10.8	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	4.4	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.56	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	2.2	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	24.5	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.17	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.43	1.0	0.15	ug/l	J
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.31	1.0	0.17	ug/l	J

ND = 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:	MW-12D		
Lab Sample ID:	JC3254-18R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.66	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	QC TB 090915		
Lab Sample ID:	JC3254-19R	**Date Sampled:**	09/09/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134403R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	QC TB 090915		
Lab Sample ID:	JC3254-19R	**Date Sampled:**	09/09/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	QC TB 090915		
Lab Sample ID:	JC3254-19R	**Date Sampled:**	09/09/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	110%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	A-IR(4)		
Lab Sample ID:	JC3254-20R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134480R.D	25	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol [a]	ND	2500	780	ug/l	
67-64-1	Acetone	ND	250	83	ug/l	
71-43-2	Benzene	ND	13	5.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	5.7	ug/l	
75-25-2	Bromoform	ND	25	5.9	ug/l	
74-83-9	Bromomethane	ND	50	11	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	140	ug/l	
71-36-3	n-Butyl Alcohol	ND	6300	1100	ug/l	
104-51-8	n-Butylbenzene	ND	50	3.4	ug/l	
135-98-8	sec-Butylbenzene	ND	50	5.3	ug/l	
98-06-6	tert-Butylbenzene	ND	50	7.0	ug/l	
75-15-0	Carbon disulfide	ND	50	6.3	ug/l	
56-23-5	Carbon tetrachloride	ND	25	5.5	ug/l	
108-90-7	Chlorobenzene	ND	25	4.6	ug/l	
75-45-6	Chlorodifluoromethane	ND	130	11	ug/l	
75-00-3	Chloroethane	ND	25	8.5	ug/l	
67-66-3	Chloroform	ND	25	4.7	ug/l	
74-87-3	Chloromethane	ND	25	10	ug/l	
110-82-7	Cyclohexane	ND	130	7.1	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	6.5	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	25	3.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	5.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	4.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	5.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	6.9	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	22	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	4.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	4.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	25	13	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	25	6.9	ug/l	

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Report of Analysis

Client Sample ID:	A-IR(4)		
Lab Sample ID:	JC3254-20R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	25	16	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	9.8	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	3.9	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	4.6	ug/l	
123-91-1	1,4-Dioxane	ND	3100	1000	ug/l	
60-29-7	Ethyl Ether	ND	50	14	ug/l	
100-41-4	Ethylbenzene	2820	25	6.7	ug/l	
76-13-1	Freon 113	ND	130	13	ug/l	
67-72-1	Hexachloroethane	ND	50	7.0	ug/l	
591-78-6	2-Hexanone	ND	130	44	ug/l	
123-51-3	IsoAmyl Alcohol	ND	1300	600	ug/l	
78-83-1	Isobutyl alcohol	ND	1300	440	ug/l	
98-82-8	Isopropylbenzene	46.4	25	5.8	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	5.3	ug/l	
79-20-9	Methyl Acetate	ND	130	47	ug/l	
108-87-2	Methylcyclohexane	ND	130	5.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	153	25	5.9	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	85.3	130	25	ug/l	J
75-09-2	Methylene chloride	ND	50	18	ug/l	
91-20-3	Naphthalene	ND	130	5.1	ug/l	
103-65-1	n-Propylbenzene	10.8	50	5.3	ug/l	J
100-42-5	Styrene	ND	25	6.8	ug/l	
75-65-0	Tert Butyl Alcohol	ND	250	69	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	50	4.7	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	50	15	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	5.2	ug/l	
127-18-4	Tetrachloroethene	ND	25	10	ug/l	
109-99-9	Tetrahydrofuran	ND	250	35	ug/l	
108-88-3	Toluene	49.1	25	4.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	5.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	5.2	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	5.4	ug/l	
79-01-6	Trichloroethene	ND	25	5.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	5.6	ug/l	
75-01-4	Vinyl chloride	ND	25	3.7	ug/l	
	m,p-Xylene	8710	25	9.4	ug/l	
95-47-6	o-Xylene	779	25	4.1	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A-IR(4)		
Lab Sample ID:	JC3254-20R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	9490	25	4.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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:	A-2R(2)		
Lab Sample ID:	JC3254-21R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134390R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	A-2R(2)		
Lab Sample ID:	JC3254-21R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	19.9	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	0.86	1.0	0.23	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.7	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.68	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	89.8	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	A-2R(2)		
Lab Sample ID:	JC3254-21R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	89.8	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	116%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	VP-1		
Lab Sample ID:	JC3254-22R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134391R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.20	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-1		
Lab Sample ID:	JC3254-22R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	3.7	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	50.3	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	10	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	3.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.18	1.0	0.17	ug/l	J

ND = 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:	VP-1		
Lab Sample ID:	JC3254-22R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	3.7	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = 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:	VP-2		
Lab Sample ID:	JC3254-23R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134392R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.55	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.24	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	VP-2		
Lab Sample ID:	JC3254-23R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	1040	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	VP-2		
Lab Sample ID:	JC3254-23R	**Date Sampled:**	09/04/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

ND = 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:	D-1R		
Lab Sample ID:	JC3254-24R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134393R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.20	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.30	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	D-1R		
Lab Sample ID:	JC3254-24R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane [a]	10300	130	41	ug/l	E
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	0.30	1.0	0.27	ug/l	J
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.65	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	D-1R		
Lab Sample ID:	JC3254-24R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.65	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

(a) Estimated value, this compound was re-logged outside the holding time per client's request.

ND = 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:	S-31R(2)		
Lab Sample ID:	JC3254-25R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134380R.D	10	09/12/15	BK	n/a	n/a	V2B5988
Run #2	2B134381R.D	100	09/12/15	BK	n/a	n/a	V2B5988

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	1000	310	ug/l	
67-64-1	Acetone	ND	100	33	ug/l	
71-43-2	Benzene	2.6	5.0	2.4	ug/l	J
74-97-5	Bromochloromethane	ND	10	3.7	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.3	ug/l	
75-25-2	Bromoform	ND	10	2.3	ug/l	
74-83-9	Bromomethane	ND	20	4.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	56	ug/l	
71-36-3	n-Butyl Alcohol	ND	2500	420	ug/l	
104-51-8	n-Butylbenzene	ND	20	1.4	ug/l	
135-98-8	sec-Butylbenzene	ND	20	2.1	ug/l	
98-06-6	tert-Butylbenzene	ND	20	2.8	ug/l	
75-15-0	Carbon disulfide	ND	20	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.2	ug/l	
108-90-7	Chlorobenzene	ND	10	1.9	ug/l	
75-45-6	Chlorodifluoromethane	ND	50	4.4	ug/l	
75-00-3	Chloroethane	ND	10	3.4	ug/l	
67-66-3	Chloroform	ND	10	1.9	ug/l	
74-87-3	Chloromethane	ND	10	4.1	ug/l	
110-82-7	Cyclohexane	ND	50	2.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	20	2.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	9.9	ug/l	
124-48-1	Dibromochloromethane	ND	10	1.5	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	1.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	2.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	2.7	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	9.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	1.8	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.1	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	2.7	ug/l	

ND = 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:	S-31R(2)		
Lab Sample ID:	JC3254-25R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	10	6.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	3.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	1.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	1.9	ug/l	
123-91-1	1,4-Dioxane	ND	1300	410	ug/l	
60-29-7	Ethyl Ether	ND	20	5.5	ug/l	
100-41-4	Ethylbenzene	3740 [a]	100	27	ug/l	
76-13-1	Freon 113	ND	50	5.2	ug/l	
67-72-1	Hexachloroethane	ND	20	2.8	ug/l	
591-78-6	2-Hexanone	ND	50	17	ug/l	
123-51-3	IsoAmyl Alcohol	ND	500	240	ug/l	
78-83-1	Isobutyl alcohol	ND	500	180	ug/l	
98-82-8	Isopropylbenzene	28.9	10	2.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	2.1	ug/l	
79-20-9	Methyl Acetate	ND	50	19	ug/l	
108-87-2	Methylcyclohexane	ND	50	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.0	10	2.4	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	10	ug/l	
75-09-2	Methylene chloride	ND	20	7.3	ug/l	
91-20-3	Naphthalene	ND	50	2.0	ug/l	
103-65-1	n-Propylbenzene	6.2	20	2.1	ug/l	J
100-42-5	Styrene	ND	10	2.7	ug/l	
75-65-0	Tert Butyl Alcohol	65.3	100	28	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	20	1.9	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	20	6.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.1	ug/l	
127-18-4	Tetrachloroethene	ND	10	4.0	ug/l	
109-99-9	Tetrahydrofuran	ND	100	14	ug/l	
108-88-3	Toluene	ND	10	1.6	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	2.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	2.1	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.1	ug/l	
79-01-6	Trichloroethene	ND	10	2.2	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	2.2	ug/l	
75-01-4	Vinyl chloride	ND	10	1.5	ug/l	
	m,p-Xylene	ND	10	3.8	ug/l	
95-47-6	o-Xylene	ND	10	1.7	ug/l	

ND = 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:	S-31R(2)		
Lab Sample ID:	JC3254-25R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	10	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	73-122%
2037-26-5	Toluene-D8	105%	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	78-117%

(a) Result is from Run# 2

ND = 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:	S-29R		
Lab Sample ID:	JC3254-26R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134382R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.27	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	1.8	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	S-29R		
Lab Sample ID:	JC3254-26R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	13.9	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.63	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	2.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-29R		
Lab Sample ID:	JC3254-26R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	107%		78-117%

ND = 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:	E-1R		
Lab Sample ID:	JC3254-27R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134383R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.30	0.50	0.24	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.74	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	E-1R		
Lab Sample ID:	JC3254-27R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	92.5	130	41	ug/l	J
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	1.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.4	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	0.27	2.0	0.21	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	33.5	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.75	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	E-1R		
Lab Sample ID:	JC3254-27R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.75	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = 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

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Report of Analysis

Client Sample ID:	G-1R(3)		
Lab Sample ID:	JC3254-28R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134477R.D	200	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol [a]	ND	20000	6200	ug/l	
67-64-1	Acetone	ND	2000	660	ug/l	
71-43-2	Benzene	ND	100	47	ug/l	
74-97-5	Bromochloromethane	ND	200	74	ug/l	
75-27-4	Bromodichloromethane	ND	200	45	ug/l	
75-25-2	Bromoform	ND	200	47	ug/l	
74-83-9	Bromomethane	ND	400	85	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	1100	ug/l	
71-36-3	n-Butyl Alcohol	ND	50000	8400	ug/l	
104-51-8	n-Butylbenzene	ND	400	27	ug/l	
135-98-8	sec-Butylbenzene	ND	400	43	ug/l	
98-06-6	tert-Butylbenzene	ND	400	56	ug/l	
75-15-0	Carbon disulfide	ND	400	51	ug/l	
56-23-5	Carbon tetrachloride	ND	200	44	ug/l	
108-90-7	Chlorobenzene	ND	200	37	ug/l	
75-45-6	Chlorodifluoromethane	ND	1000	88	ug/l	
75-00-3	Chloroethane	ND	200	68	ug/l	
67-66-3	Chloroform	ND	200	37	ug/l	
74-87-3	Chloromethane	ND	200	81	ug/l	
110-82-7	Cyclohexane	ND	1000	56	ug/l	
108-20-3	Di-Isopropyl ether	ND	400	52	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	200	ug/l	
124-48-1	Dibromochloromethane	ND	200	31	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	46	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	37	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	55	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	180	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	34	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	36	ug/l	
75-35-4	1,1-Dichloroethene	ND	200	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	200	55	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	G-1R(3)		
Lab Sample ID:	JC3254-28R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	200	130	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	79	ug/l	
142-28-9	1,3-Dichloropropane	ND	200	31	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	41	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	37	ug/l	
123-91-1	1,4-Dioxane	ND	25000	8100	ug/l	
60-29-7	Ethyl Ether	ND	400	110	ug/l	
100-41-4	Ethylbenzene	28200	200	54	ug/l	
76-13-1	Freon 113	ND	1000	100	ug/l	
67-72-1	Hexachloroethane	ND	400	56	ug/l	
591-78-6	2-Hexanone	ND	1000	350	ug/l	
123-51-3	IsoAmyl Alcohol	ND	10000	4800	ug/l	
78-83-1	Isobutyl alcohol	ND	10000	3500	ug/l	
98-82-8	Isopropylbenzene	ND	200	47	ug/l	
99-87-6	p-Isopropyltoluene	ND	400	42	ug/l	
79-20-9	Methyl Acetate	ND	1000	380	ug/l	
108-87-2	Methylcyclohexane	ND	1000	44	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	47	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	200	ug/l	
75-09-2	Methylene chloride	ND	400	150	ug/l	
91-20-3	Naphthalene	ND	1000	40	ug/l	
103-65-1	n-Propylbenzene	ND	400	43	ug/l	
100-42-5	Styrene	ND	200	54	ug/l	
75-65-0	Tert Butyl Alcohol	ND	2000	550	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	400	38	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	400	120	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	41	ug/l	
127-18-4	Tetrachloroethene	ND	200	80	ug/l	
109-99-9	Tetrahydrofuran	ND	2000	280	ug/l	
108-88-3	Toluene	96.0	200	32	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	200	45	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	42	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	43	ug/l	
79-01-6	Trichloroethene	ND	200	45	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	86	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	400	45	ug/l	
75-01-4	Vinyl chloride	ND	200	29	ug/l	
	m,p-Xylene	79800	200	75	ug/l	
95-47-6	o-Xylene	5500	200	33	ug/l	

ND = 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:	G-1R(3)		
Lab Sample ID:	JC3254-28R	**Date Sampled:**	09/07/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	85300	200	33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = 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

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Report of Analysis

Client Sample ID:	S-34		
Lab Sample ID:	JC3254-29R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134386R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.81	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	S-34		
Lab Sample ID:	JC3254-29R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	18.4	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	S-34		
Lab Sample ID:	JC3254-29R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

ND = 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:	EB090915		
Lab Sample ID:	JC3254-30R	**Date Sampled:**	09/09/15
Matrix:	AQ - Equipment Blank	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134387R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	EB090915		
Lab Sample ID:	JC3254-30R	**Date Sampled:**	09/09/15
Matrix:	AQ - Equipment Blank	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	EB090915		
Lab Sample ID:	JC3254-30R	**Date Sampled:**	09/09/15
Matrix:	AQ - Equipment Blank	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = 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:	TB090915		
Lab Sample ID:	JC3254-31R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134388R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = 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:	TB090915		
Lab Sample ID:	JC3254-31R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = 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:	TB090915		
Lab Sample ID:	JC3254-31R	**Date Sampled:**	09/09/15
Matrix:	AQ - Ground Water	**Date Received:**	09/10/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = 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

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW
WTB

FEDX # 8012 1953 5125

KN

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information
Name: Anderson Mulholland & Associates
Address: 2700 Westchester Avenue
City: Purchase State: NY Zip: 10577
Send Report to: Terry Taylor
Phone #: 914-251-0400

Facility Information
Project Name: Anderson Mulholland
Location:
Project/PO #: BMS: Former Tank Farm
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	VOCs (Special List 2)		Ethylbencene and Toluene (Special List 2)	PAH by 8270SIM
MW- 15	9/3/15	1152	NMR	GW	3	X					X	1		
MW- 17		1250		GW	3	X					X	2	X	
MW- 5		1518		GW	3	X					X	3		
MW- 14	9/3/15	1637	NMR	GW	3	X					X	4		
MW-				GW	3	X					X			
MW-				GW	3	X					X			
MW-				GW	3	X					X			
MW-				GW	3	X					X			
MW-				GW	3	X					X			
MW-				GW	3	X					X			
QC TB 030915	9/3/15	1637	NMR	QC	2	X					X	5		

V1182

INITIAL ASESSMENT 2 A
LABEL VERIFICATION

Turnaround Information
- [X] 21 Day Standard
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks
Federal Express ID # 801219535125
Lab Trip Blank Date 8/26/15 Time 06:00
VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 2 compounds (acetone, chloromethane, MIBK, methylene chloride and xylene). For MW-17/18 also analyze for ethylbenzene and toluene. For MW-12 also analyze for PAH. Also, please provide report on CD ROM.

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 Victor M. Rivera	9/4/15 1101	1 FEDX	2 FEDX	9/5/15 1000	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 198 intact	Preserved where applicat yes	On Ice: yes 3.2°

5.1
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JC3254R: Chain of Custody
Page 1 of 8

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information

Anderson Mulholland & Associates
Name: 2700 Westchester Avenue
Address: Purchase NY 10577
City / State / Zip
Terry Taylor
Send Report to:
Phone #: 914-251-0400

Facility Information

Anderson Mulholland and Associates Inc.
Project Name
Location
Project/PO #: BMS: Building 5 Area
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs (Special List 3)	
S-35	9/1/15	1545	NMR	GW	6	X					X	6
S-35 D	9/1/15	1547	NMR	GW	6	X					X	7
S-36	9/2/15	1132	NMR	GW	6	X					X	8
S-32	9/2/15	1702	NMR	GW	6	X					X	9
S-33	9/2/15	1558	NMR	GW	6	X					X	10
			NMR	GW	6	X					X	
			NMR	GW	6	X					X	
			NMR	GW	6	X					X	
			NMR	GW	6	X					X	
			NMR	GW	6	X					X	

Turnaround Information

- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify) _____
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Federal Express ID # 801219535125
Lab Trip Blank Date 8/26/15 Time 06:00
VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Vleston M. Rivera	9/4/15 / 1101	1 FEDX	2 FEDX	9/5/15 1000	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 198	Preserved where applical yes	On Ice: yes

5.1 5

JC3254R: Chain of Custody
Page 2 of 8

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JC3254 **Client:** Anderson Mulholland **Project:** BMS: Former Tank Farm

Date / Time Received: 9/5/2015 10:00:00 AM **Delivery Method:** FedEx **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2); Cooler 2: (2.7); Cooler 3: (3.2); Cooler 4: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.4); Cooler 2: (2.9); Cooler 3: (3.4); Cooler 4: (2.6);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No, Coolers	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments -10 Also rec'd sample "S-33" not on COC/added. Rec'd 6 HCL preserved voc vials collected 9/2/15 at 15:58

Revised: For Samples rec'd on 9/10/15

-30 Rec'd sample "EB090915" not on COC/added. Rec'd 2x 950ml N/P Ambers and 3 HCL voc's collected 9/9/15 at 1058

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JC3254

Initiator: ANDREWS

CSR: MS / Tammy McCloskey

Response Date 9/8/2015

Response: Per Nestor Rivera please proceed as noted and analyze -10 for V8260SL2

9/10/15 sample receipt:
-30 please analyze for V8260SL2, Toluene, Ethylbenzene, B8270SIMPAH
-17 & -18 please add Toluene and Ethylbenzene to VO's

per Terry Taylor

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

GW
EB
WTB

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

L

Accutest Job #: JC3254
Accutest Quote #:

Client Information
Name: Anderson Mulholland & Associates
Address: 2700 Westchester Avenue
City: Purchase State: NY Zip: 10577
Send Report to: Terry Taylor
Phone #: 914-251-0400

Facility Information
Anderson Mulholland
Project Name:
Location:
Project/PO #: BMS: Former Tank Farm
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	VOCs (Special List 2)				Ethylbenzene and Toluene (Special List 2)	PAH by 8270SIM					
MW- 18	9/4/15	1738	NMR	GW	3	X					X	11			X						
MW- 3	9/4/15	1841		GW	4 3	X					X	12									V3
MW- 13	9/8/15	1305		GW	3	X					X	13									V4
MW- 13 D		1309		GW	3	X					X	14									E60
MW- 7		1440		GW	3	X					X	15									
MW- 16		1542		GW	3	X					X										
MW- 16 MS		1545		GW	3	X					X	16									
MW- 16 MSD	9/8/15	1547		GW	3	X					X										
MW- 12	9/9/15	1542		GW	3	X					X	17									
MW- 12D	9/9/15	1551		GW	3	X					X	18				*					
QC TB 090915	9/9/15	1551		QC	2	X					X	19			• VOA QC VAL						

Turnaround Information
- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days EMERGENCY — INITIAL ASESSMENT 2A 7B
- [ ] Other (Days) — LABEL VERIFICATION JK

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks
Federal Express ID # 801219535114
Lab Trip Blank Date 8/26/15 Time 0600
VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 2 compounds (acetone, chloromethane, MIBK, methylene chloride and xylene). For MW-17/18 also analyze for ethylbenzene and toluene. For MW-12 also analyze for PAH. Also, please provide report on CD ROM.

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Neston M. Rivera	9/9/15 1729	1 FEDEX	2 FEDEX	9-10-15 1440	2
3		3	4		4
5		5	Seal # 212, 214	Preserved where applicat: yes	On Ice: yes 2.7, 3.2, 2.4

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CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information
Anderson Mulholland & Associates
Name: 2700 Westchester Avenue
Address: Purchase NY 10577
City State Zip
Terry Taylor
Send Report to:
Phone #: 914-251-0400

Facility Information
Anderson Mulholland and Associates Inc.
Project Name
Location
Project/PO #: BMS: Building 5 Area
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs (Special List 3)	
A-1R (4)	9/4/15	1246	NMR	GW	6	X					X	20
A-2R (2)		1339	NMR	GW	6	X					X	21
UP-1		1432	NMR	GW	6	X					X	22
UP-2	9/4/15	1616	NMR	GW	6	X					X	23
D-1R	9/7/15	1240	NMR	GW	6	X					X	24
S-31R(2)		1342	NMR	GW	6	X					X	
S-31R(2)MS		1346	NMR	GW	6	X					X	25
S-31R(2)MSD		1351	NMR	GW	6	X					X	
S-29R		1448	NMR	GW	6	X					X	26
E-1R		1623	NMR	GW	6	X					X	27
G-1R(3)	9/7/15	1731	NMR	GW	6	X					X	28

Turnaround Information
- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Federal Express ID # 8012 1953 5114
Lab Trip Blank Date 8/26/15 Time 0600
VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Neal M. Rivera	9/9/15 1729	1 FEDEX	2 FEDEX	9-10-15 1440	2
3		3	4		4
5		5	Seal # 212, 214	Preserved where applical: yes	On Ice: yes

JC3254R: Chain of Custody
Page 6 of 8

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information

Anderson Mulholland & Associates

Name: 2700 Westchester Avenue

Address: Purchase NY 10577

City / State / Zip

Terry Taylor

Send Report to:

Phone #: 914-251-0400

Facility Information

Anderson Mulholland and Associates Inc.

Project Name

Location

Project/PO #: BMS: Building 5 Area

FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	VOCs (Special List 3)									
S-34	9/9/15	1311	NMR	GW	~~26~~ 2	X					X	29								
FB090915	9/9/15	1058	NMR	GW	5 ~~6~~	X					X	30								
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
TB090915	9/9/15	1551	NMR	W	2	X					X	31			VOA	QC	VIAL			

Turnaround Information

- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify) _____
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Federal Express ID # _____
Lab Trip Blank Date_____ Time _____
VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Martin Rivera	9/9/15 1729	1 FEDEX	2 FEDEX	9-10-15 1440	2
3		3	4		4
5		5			

Seal # 212, 214 Preserved where applical: yes On Ice: yes

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ACCUTEST LABORATORIES

Job Change Order: JC3254

Requested Date:	12/10/2015	**Received Date:**	9/5/2015
Account Name:	Anderson, Mulholland & Associate	**Due Date:**	9/24/2015
Project Description:	BMSMC, Former Tank Farm, PR	**Deliverable:**	FULT1
CSR:	tammym	**TAT (Days):**	14

==========

Sample #: JC3254-all

Dept:

TAT: 14

Change:
relog / retrieve for V8260TCL11

==========

Above Changes Per: Terry Taylor

Date/Time: 12/10/2015 12:32:58 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC3254-1R MW-15	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-1R	SW846 8260C	09-SEP-15 20:02	BK			VR8260TCL11
JC3254-2R MW-17	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-2R	SW846 8260C	10-SEP-15 18:46	BK			VR8260TCL11
JC3254-3R MW-5	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-3R	SW846 8260C	12-SEP-15 16:14	BK			VR8260TCL11
JC3254-4R MW-14	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-4R	SW846 8260C	10-SEP-15 19:43	BK			VR8260TCL11
JC3254-5R QC TB 030915	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-5R	SW846 8260C	10-SEP-15 20:12	BK			VR8260TCL11
JC3254-6R S-35	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-6R	SW846 8260C	09-SEP-15 12:55	BK			VR8260TCL11
JC3254-7R S-35D	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-7R	SW846 8260C	09-SEP-15 13:25	BK			VR8260TCL11
JC3254-8R S-36	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-8R	SW846 8260C	09-SEP-15 13:56	BK			VR8260TCL11

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC3254-9R S-32	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-9R	SW846 8260C	17-SEP-15 15:31	BK			VR8260TCL11
JC3254-9R	SW846 8260C	17-SEP-15 15:59	BK			VR8260TCL11
JC3254-10R S-33	Collected: 03-SEP-15 00:00 By: NMR		Received: 05-SEP-15 By: AS			
JC3254-10R	SW846 8260C	14-SEP-15 18:18	BK			VR8260TCL11
JC3254-11R MW-18	Collected: 04-SEP-15 17:38 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-11R	SW846 8260C	15-SEP-15 13:44	BK			VR8260TCL11
JC3254-12R MW-3	Collected: 04-SEP-15 18:41 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-12R	SW846 8260C	16-SEP-15 19:26	BK			VR8260TCL11
JC3254-13R MW-13	Collected: 08-SEP-15 13:05 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-13R	SW846 8260C	14-SEP-15 18:47	BK			VR8260TCL11
JC3254-14R MW-13D	Collected: 08-SEP-15 13:09 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-14R	SW846 8260C	16-SEP-15 18:29	BK			VR8260TCL11
JC3254-15R MW-7	Collected: 08-SEP-15 14:40 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-15R	SW846 8260C	16-SEP-15 18:57	BK			VR8260TCL11
JC3254-16R MW-16	Collected: 08-SEP-15 15:42 By: NMR		Received: 10-SEP-15 By: AS			

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC3254-16R	SW846 8260C	12-SEP-15 12:10	BK			VR8260TCL11
JC3254-17R MW-12	Collected: 09-SEP-15 15:42 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-17R	SW846 8260C	12-SEP-15 12:38	BK			VR8260TCL11
JC3254-18R MW-12D	Collected: 09-SEP-15 15:51 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-18R	SW846 8260C	12-SEP-15 13:07	BK			VR8260TCL11
JC3254-19R QC TB 090915	Collected: 09-SEP-15 15:51 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-19R	SW846 8260C	12-SEP-15 13:35	BK			VR8260TCL11
JC3254-20R A-IR(4)	Collected: 04-SEP-15 12:46 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-20R	SW846 8260C	15-SEP-15 14:47	BK			VR8260TCL11
JC3254-21R A-2R(2)	Collected: 04-SEP-15 13:39 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-21R	SW846 8260C	12-SEP-15 06:32	BK			VR8260TCL11
JC3254-22R VP-1	Collected: 04-SEP-15 14:32 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-22R	SW846 8260C	12-SEP-15 07:00	BK			VR8260TCL11
JC3254-23R VP-2	Collected: 04-SEP-15 16:16 By: NMR		Received: 10-SEP-15 By: AS			
JC3254-23R	SW846 8260C	12-SEP-15 07:29	BK			VR8260TCL11
JC3254-24R D-1R	Collected: 07-SEP-15 12:40 By: NMR		Received: 10-SEP-15 By: AS			

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC3254-24R	SW846 8260C	12-SEP-15 07:57	BK			VR8260TCL11
JC3254-25R	Collected: 07-SEP-15 13:42 By: NMR		Received: 10-SEP-15 By: AS			
S-31R(2)						
JC3254-25R	SW846 8260C	12-SEP-15 01:47	BK			VR8260TCL11
JC3254-25R	SW846 8260C	12-SEP-15 02:15	BK			VR8260TCL11
JC3254-26R	Collected: 07-SEP-15 14:48 By: NMR		Received: 10-SEP-15 By: AS			
S-29R						
JC3254-26R	SW846 8260C	12-SEP-15 02:43	BK			VR8260TCL11
JC3254-27R	Collected: 07-SEP-15 16:23 By: NMR		Received: 10-SEP-15 By: AS			
E-1R						
JC3254-27R	SW846 8260C	12-SEP-15 03:11	BK			VR8260TCL11
JC3254-28R	Collected: 07-SEP-15 17:31 By: NMR		Received: 10-SEP-15 By: AS			
G-1R(3)						
JC3254-28R	SW846 8260C	15-SEP-15 13:15	BK			VR8260TCL11
JC3254-29R	Collected: 09-SEP-15 13:11 By: NMR		Received: 10-SEP-15 By: AS			
S-34						
JC3254-29R	SW846 8260C	12-SEP-15 04:37	BK			VR8260TCL11
JC3254-30R	Collected: 09-SEP-15 10:58 By: NMR		Received: 10-SEP-15 By: AS			
EB090915						
JC3254-30R	SW846 8260C	12-SEP-15 05:06	BK			VR8260TCL11
JC3254-31R	Collected: 09-SEP-15 15:51 By: NMR		Received: 10-SEP-15 By: AS			
TB090915						
JC3254-31R	SW846 8260C	12-SEP-15 05:35	BK			VR8260TCL11

Accutest Internal Chain of Custody

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-1.1	Secured Storage	Bridget Kelly	09/09/15 15:33	Retrieve from Storage
JC3254-1.1	Bridget Kelly	GCMS2D	09/09/15 15:33	Load on Instrument
JC3254-1.1	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-1.1	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage
JC3254-1.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-2.1	Secured Storage	Bridget Kelly	09/10/15 14:23	Retrieve from Storage
JC3254-2.1	Bridget Kelly	GCMS2B	09/10/15 14:24	Load on Instrument
JC3254-2.1	GCMS2B	Bridget Kelly	09/11/15 09:18	Unload from Instrument
JC3254-2.1	Bridget Kelly	Secured Storage	09/11/15 09:18	Return to Storage
JC3254-2.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-3.1	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-3.1	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-3.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-3.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-3.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-3.2	Secured Storage	Bridget Kelly	09/10/15 14:23	Retrieve from Storage
JC3254-3.2	Bridget Kelly	GCMS2B	09/10/15 14:24	Load on Instrument
JC3254-3.2	GCMS2B	Bridget Kelly	09/11/15 09:18	Unload from Instrument
JC3254-3.2	Bridget Kelly	Secured Storage	09/11/15 09:18	Return to Storage
JC3254-3.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-4.1	Secured Storage	Bridget Kelly	09/10/15 14:23	Retrieve from Storage
JC3254-4.1	Bridget Kelly	GCMS2B	09/10/15 14:24	Load on Instrument
JC3254-4.1	GCMS2B	Bridget Kelly	09/11/15 09:18	Unload from Instrument
JC3254-4.1	Bridget Kelly	Secured Storage	09/11/15 09:18	Return to Storage
JC3254-4.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-5.1	Secured Storage	Bridget Kelly	09/10/15 14:23	Retrieve from Storage
JC3254-5.1	Bridget Kelly	GCMS2B	09/10/15 14:24	Load on Instrument
JC3254-5.1	GCMS2B	Bridget Kelly	09/11/15 09:18	Unload from Instrument
JC3254-5.1	Bridget Kelly	Secured Storage	09/11/15 09:18	Return to Storage
JC3254-5.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-6.1	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-6.1	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-6.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-6.2	Secured Storage	Bridget Kelly	09/09/15 12:15	Retrieve from Storage
JC3254-6.2	Bridget Kelly	GCMS2D	09/09/15 12:15	Load on Instrument
JC3254-6.2	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-6.2	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage

Accutest Internal Chain of Custody

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-6.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-6.5	Secured Storage	Bridget Kelly	09/09/15 15:33	Retrieve from Storage
JC3254-6.5	Bridget Kelly	GCMS2D	09/09/15 15:33	Load on Instrument
JC3254-6.5	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-6.5	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage
JC3254-6.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-7.1	Secured Storage	Bridget Kelly	09/09/15 12:15	Retrieve from Storage
JC3254-7.1	Bridget Kelly	GCMS2D	09/09/15 12:15	Load on Instrument
JC3254-7.1	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-7.1	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage
JC3254-7.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-7.2	Secured Storage	Bridget Kelly	09/09/15 15:33	Retrieve from Storage
JC3254-7.2	Bridget Kelly	GCMS2D	09/09/15 15:33	Load on Instrument
JC3254-7.2	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-7.2	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage
JC3254-7.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-7.4	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-7.4	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-7.4	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-8.1	Secured Storage	Bridget Kelly	09/09/15 12:29	Retrieve from Storage
JC3254-8.1	Bridget Kelly	GCMS2D	09/09/15 12:30	Load on Instrument
JC3254-8.1	GCMS2D	Bridget Kelly	09/10/15 09:14	Unload from Instrument
JC3254-8.1	Bridget Kelly	Secured Storage	09/10/15 09:14	Return to Storage
JC3254-8.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-8.2	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-8.2	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-8.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-9.2	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-9.2	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-9.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-9.4	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-9.4	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-9.4	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-9.4	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-9.4	Shirley Grzybowski		10/26/15 08:32	Disposed

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Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-9.5	Secured Storage	Bridget Kelly	09/16/15 16:11	Retrieve from Storage
JC3254-9.5	Bridget Kelly	Secured Storage	09/17/15 08:42	Return to Storage
JC3254-9.5	Secured Storage	Bridget Kelly	09/17/15 16:01	Retrieve from Storage
JC3254-9.5	Bridget Kelly	Secured Storage	09/17/15 16:46	Return to Storage
JC3254-9.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-10.1	Secured Storage	Eddie Huang	09/14/15 15:12	Retrieve from Storage
JC3254-10.1	Eddie Huang	GCMS2B	09/14/15 15:12	Load on Instrument
JC3254-10.1	GCMS2B	Bridget Kelly	09/15/15 09:30	Unload from Instrument
JC3254-10.1	Bridget Kelly	Secured Storage	09/15/15 09:30	Return to Storage
JC3254-10.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-10.2	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-10.2	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-10.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-10.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-10.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-10.5	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-10.5	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-10.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-11.1	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-11.1	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-11.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-11.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-11.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-11.2	Secured Storage	Bridget Kelly	09/15/15 12:09	Retrieve from Storage
JC3254-11.2	Bridget Kelly	GCMS2B	09/15/15 12:09	Load on Instrument
JC3254-11.2	GCMS2B	Eddie Huang	09/16/15 09:56	Unload from Instrument
JC3254-11.2	Eddie Huang	Secured Storage	09/16/15 09:56	Return to Storage
JC3254-11.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-12.1	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-12.1	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-12.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-12.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-12.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-12.2	Secured Storage	Eddie Huang	09/16/15 13:53	Retrieve from Storage
JC3254-12.2	Eddie Huang	GCMS2B	09/16/15 13:53	Load on Instrument
JC3254-12.2	GCMS2B	Bridget Kelly	09/17/15 09:01	Unload from Instrument
JC3254-12.2	Bridget Kelly	Secured Storage	09/17/15 09:01	Return to Storage

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Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-12.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-13.2	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-13.2	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-13.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-13.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-13.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-14.1	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-14.1	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-14.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-14.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-14.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-14.2	Secured Storage	Eddie Huang	09/16/15 13:53	Retrieve from Storage
JC3254-14.2	Eddie Huang	GCMS2B	09/16/15 13:53	Load on Instrument
JC3254-14.2	GCMS2B	Bridget Kelly	09/17/15 09:01	Unload from Instrument
JC3254-14.2	Bridget Kelly	Secured Storage	09/17/15 09:01	Return to Storage
JC3254-14.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-15.1	Secured Storage	Eddie Huang	09/16/15 13:53	Retrieve from Storage
JC3254-15.1	Eddie Huang	GCMS2B	09/16/15 13:53	Load on Instrument
JC3254-15.1	GCMS2B	Bridget Kelly	09/17/15 09:01	Unload from Instrument
JC3254-15.1	Bridget Kelly	Secured Storage	09/17/15 09:01	Return to Storage
JC3254-15.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-15.2	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-15.2	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-15.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-15.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-15.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-16.1	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-16.1	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-16.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-16.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-16.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-16.2	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-16.2	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-16.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-16.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-16.2	Shirley Grzybowski		10/26/15 08:32	Disposed

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Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-16.3	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-16.3	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-16.3	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-16.3	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-16.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-16.5	Secured Storage	Bridget Kelly	09/14/15 11:21	Retrieve from Storage
JC3254-16.5	Bridget Kelly	GCMS2B	09/14/15 11:21	Load on Instrument
JC3254-16.5	GCMS2B	Bridget Kelly	09/15/15 09:30	Unload from Instrument
JC3254-16.5	Bridget Kelly	Secured Storage	09/15/15 09:30	Return to Storage
JC3254-16.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-16.7	Secured Storage	Bridget Kelly	09/14/15 11:21	Retrieve from Storage
JC3254-16.7	Bridget Kelly	GCMS2B	09/14/15 11:21	Load on Instrument
JC3254-16.7	GCMS2B	Bridget Kelly	09/15/15 09:30	Unload from Instrument
JC3254-16.7	Bridget Kelly	Secured Storage	09/15/15 09:30	Return to Storage
JC3254-16.7	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-17.1	Secured Storage	Ryan Fantasia	09/18/15 16:11	Retrieve from Storage
JC3254-17.1	Ryan Fantasia		09/18/15 20:26	Depleted
JC3254-17.1.1	Ryan Fantasia	Organics Prep	09/18/15 16:11	Extract from JC3254-17.1
JC3254-17.1.1	Organics Prep	Joseph Baum	09/18/15 22:01	Extract from JC3254-17.1
JC3254-17.1.1	Joseph Baum	Extract Storage	09/18/15 22:01	Return to Storage
JC3254-17.1.1	Extract Storage		10/29/15 09:00	Disposed
JC3254-17.2	Secured Storage	Luis Villanueva	09/15/15 14:25	Retrieve from Storage
JC3254-17.2	Luis Villanueva	Secured Staging Area	09/15/15 14:25	Return to Storage
JC3254-17.2	Secured Staging Area	Joseph Baum	09/15/15 14:49	Retrieve from Storage
JC3254-17.2	Joseph Baum		09/15/15 20:13	Depleted
JC3254-17.2.1	Joseph Baum	Organics Prep	09/15/15 14:58	Extract from JC3254-17.2
JC3254-17.2.1	Organics Prep	Joseph Baum	09/15/15 22:01	Extract from JC3254-17.2
JC3254-17.2.1	Joseph Baum	Extract Storage	09/15/15 22:01	Return to Storage
JC3254-17.2.1	Extract Storage		10/26/15 09:00	Disposed
JC3254-17.3	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-17.3	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-17.3	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-17.3	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-17.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-18.1	Secured Storage	Ryan Fantasia	09/18/15 16:11	Retrieve from Storage
JC3254-18.1	Ryan Fantasia		09/18/15 20:26	Depleted

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Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-18.1.1	Ryan Fantasia	Organics Prep	09/18/15 16:11	Extract from JC3254-18.1
JC3254-18.1.1	Organics Prep	Joseph Baum	09/18/15 22:01	Extract from JC3254-18.1
JC3254-18.1.1	Joseph Baum	Extract Storage	09/18/15 22:01	Return to Storage
JC3254-18.1.1	Extract Storage		10/29/15 09:00	Disposed
JC3254-18.2	Secured Storage	Luis Villanueva	09/15/15 14:25	Retrieve from Storage
JC3254-18.2	Luis Villanueva	Secured Staging Area	09/15/15 14:25	Return to Storage
JC3254-18.2	Secured Staging Area	Joseph Baum	09/15/15 14:49	Retrieve from Storage
JC3254-18.2	Joseph Baum		09/15/15 20:13	Depleted
JC3254-18.2.1	Joseph Baum	Organics Prep	09/15/15 14:58	Extract from JC3254-18.2
JC3254-18.2.1	Organics Prep	Joseph Baum	09/15/15 22:01	Extract from JC3254-18.2
JC3254-18.2.1	Joseph Baum	Extract Storage	09/15/15 22:01	Return to Storage
JC3254-18.2.1	Extract Storage		10/26/15 09:00	Disposed
JC3254-18.3	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-18.3	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-18.3	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-18.3	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-18.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-19.2	Secured Storage	Bridget Kelly	09/11/15 14:42	Retrieve from Storage
JC3254-19.2	Bridget Kelly	GCMS2B	09/11/15 14:43	Load on Instrument
JC3254-19.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-19.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-19.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-20.1	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-20.1	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-20.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-20.2	Secured Storage	Bridget Kelly	09/11/15 15:25	Retrieve from Storage
JC3254-20.2	Bridget Kelly	Secured Storage	09/11/15 15:59	Return to Storage
JC3254-20.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-20.3	Secured Storage	Bridget Kelly	09/15/15 16:41	Retrieve from Storage
JC3254-20.3	Bridget Kelly	GCMS2B	09/15/15 16:41	Load on Instrument
JC3254-20.3	GCMS2B	Eddie Huang	09/16/15 09:56	Unload from Instrument
JC3254-20.3	Eddie Huang	Secured Storage	09/16/15 09:56	Return to Storage
JC3254-20.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-21.4	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-21.4	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-21.4	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-21.4	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-21.4	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-21.5	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-21.5	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-21.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-22.2	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-22.2	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-22.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-22.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-22.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-22.5	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-22.5	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-22.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-23.1	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-23.1	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-23.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-23.2	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-23.2	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-23.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-23.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-23.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-24.1	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-24.1	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-24.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-24.5	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-24.5	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-24.5	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-24.5	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-24.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-25.4	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-25.4	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-25.4	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-25.17	Secured Storage	Bridget Kelly	09/11/15 15:25	Retrieve from Storage
JC3254-25.17	Bridget Kelly	Secured Storage	09/11/15 15:59	Return to Storage

Accutest Internal Chain of Custody

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-25.17	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-26.1	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-26.1	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-26.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-26.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-26.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-26.3	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-26.3	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-26.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-27.1	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-27.1	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-27.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-27.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-27.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-27.2	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-27.2	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-27.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-28.2	Secured Storage	Bridget Kelly	09/15/15 16:41	Retrieve from Storage
JC3254-28.2	Bridget Kelly	GCMS2B	09/15/15 16:41	Load on Instrument
JC3254-28.2	GCMS2B	Eddie Huang	09/16/15 09:56	Unload from Instrument
JC3254-28.2	Eddie Huang	Secured Storage	09/16/15 09:56	Return to Storage
JC3254-28.2	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-28.4	Secured Storage	Bridget Kelly	09/11/15 15:25	Retrieve from Storage
JC3254-28.4	Bridget Kelly	Secured Storage	09/11/15 15:59	Return to Storage
JC3254-28.4	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-28.5	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-28.5	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-28.5	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-29.1	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-29.1	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-29.1	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-29.1	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-29.1	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-29.3	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-29.3	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage

Accutest Internal Chain of Custody

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Received: 09/05/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC3254-29.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-30.2	Secured Storage	Brian Johnson	09/17/15 05:18	Retrieve from Storage
JC3254-30.2	Brian Johnson		09/17/15 12:35	Depleted
JC3254-30.2.1	Brian Johnson	Organics Prep	09/17/15 05:21	Extract from JC3254-30.2
JC3254-30.2.1	Organics Prep	Nicholas Goydish	09/17/15 12:19	Extract from JC3254-30.2
JC3254-30.2.1	Nicholas Goydish	Extract Storage	09/17/15 12:19	Return to Storage
JC3254-30.2.1	Extract Storage	Sara Wellington	09/18/15 00:27	Retrieve from Storage
JC3254-30.2.1	Sara Wellington	GCMS4M	09/18/15 00:27	Load on Instrument
JC3254-30.2.1	GCMS4M	Linsey Kirschmann	09/18/15 14:25	Unload from Instrument
JC3254-30.2.1	Linsey Kirschmann	Extract Freezer	09/18/15 14:25	Return to Storage
JC3254-30.2.1	Extract Freezer		10/28/15 09:00	Disposed
JC3254-30.3	Secured Storage	Xu Liu	09/14/15 07:45	Retrieve from Storage
JC3254-30.3	Xu Liu	Secured Storage	09/14/15 15:41	Return to Storage
JC3254-30.3	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-30.4	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-30.4	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-30.4	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-30.4	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-30.4	Shirley Grzybowski		10/26/15 08:32	Disposed
JC3254-31.2	Secured Storage	Bridget Kelly	09/11/15 15:24	Retrieve from Storage
JC3254-31.2	Bridget Kelly	GCMS2B	09/11/15 15:24	Load on Instrument
JC3254-31.2	GCMS2B	Bridget Kelly	09/14/15 10:12	Unload from Instrument
JC3254-31.2	Bridget Kelly	Secured Storage	09/14/15 10:12	Return to Storage
JC3254-31.2	Shirley Grzybowski		10/26/15 08:32	Disposed

New Jersey
ACCUTEST LABORATORIES

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: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-MB	2D147885.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-MB	2D147885.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-MB	2D147885.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	107%	73-122%
2037-26-5	Toluene-D8	111%	84-119%
460-00-4	4-Bromofluorobenzene	112%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-MB	2B134300.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-MB	2B134300.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-MB	2B134300.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	105%	73-122%
2037-26-5	Toluene-D8	105%	84-119%
460-00-4	4-Bromofluorobenzene	102%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-MB	2B134375.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-MB	2B134375.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-MB	2B134375.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	113%	73-122%
2037-26-5	Toluene-D8	105%	84-119%
460-00-4	4-Bromofluorobenzene	106%	78-117%

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB	2B134397.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB	2B134397.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB	2B134397.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	116%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-MB	2B134427.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-MB	2B134427.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-MB	2B134427.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	110%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-MB	2B134470.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-MB	2B134470.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-MB	2B134470.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	112%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	104%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-MB	2B134519.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-MB	2B134519.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-MB	2B134519.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	114%	73-122%
2037-26-5	Toluene-D8	103%	84-119%
460-00-4	4-Bromofluorobenzene	104%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-MB	2B134552.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-MB	2B134552.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-MB	2B134552.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	117%	73-122%
2037-26-5	Toluene-D8	103%	84-119%
460-00-4	4-Bromofluorobenzene	103%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB2	2B134423.D	1	09/14/15	BK	n/a	n/a	V2B5989

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

JC3254-16RMS, JC3254-16RMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB2	2B134423.D	1	09/14/15	BK	n/a	n/a	V2B5989

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

JC3254-16RMS, JC3254-16RMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-MB2	2B134423.D	1	09/14/15	BK	n/a	n/a	V2B5989

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

JC3254-16RMS, JC3254-16RMSD

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-BS	2D147886.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	3870	77	52-155
67-64-1	Acetone	50	38.2	76	47-144
71-43-2	Benzene	50	44.5	89	81-119
74-97-5	Bromochloromethane	50	44.7	89	84-120
75-27-4	Bromodichloromethane	50	46.8	94	81-125
75-25-2	Bromoform	50	43.6	87	74-128
74-83-9	Bromomethane	50	49.0	98	52-146
78-93-3	2-Butanone (MEK)	50	45.3	91	68-130
71-36-3	n-Butyl Alcohol	2500	1940	78	56-147
104-51-8	n-Butylbenzene	50	52.9	106	79-127
135-98-8	sec-Butylbenzene	50	49.2	98	78-124
98-06-6	tert-Butylbenzene	50	48.1	96	77-127
75-15-0	Carbon disulfide	50	46.6	93	71-129
56-23-5	Carbon tetrachloride	50	49.7	99	77-140
108-90-7	Chlorobenzene	50	44.2	88	84-116
75-45-6	Chlorodifluoromethane	50	44.4	89	44-147
75-00-3	Chloroethane	50	51.8	104	70-148
67-66-3	Chloroform	50	45.8	92	81-120
74-87-3	Chloromethane	50	40.6	81	50-143
110-82-7	Cyclohexane	50	49.5	99	77-125
108-20-3	Di-Isopropyl ether	50	40.6	81	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	45.1	90	66-132
124-48-1	Dibromochloromethane	50	43.6	87	81-122
106-93-4	1,2-Dibromoethane	50	41.9	84	81-120
95-50-1	1,2-Dichlorobenzene	50	49.3	99	80-117
541-73-1	1,3-Dichlorobenzene	50	48.1	96	81-116
106-46-7	1,4-Dichlorobenzene	50	47.9	96	80-115
75-71-8	Dichlorodifluoromethane	50	48.4	97	36-169
75-34-3	1,1-Dichloroethane	50	44.2	88	80-125
107-06-2	1,2-Dichloroethane	50	46.7	93	78-131
75-35-4	1,1-Dichloroethene	50	45.1	90	73-127
156-59-2	cis-1,2-Dichloroethene	50	45.0	90	77-118
156-60-5	trans-1,2-Dichloroethene	50	44.2	88	75-118
78-87-5	1,2-Dichloropropane	50	44.4	89	80-124
142-28-9	1,3-Dichloropropane	50	40.9	82	78-119
10061-01-5	cis-1,3-Dichloropropene	50	46.6	93	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-BS	2D147886.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	45.3	91	73-122
123-91-1	1,4-Dioxane	1250	1180	94	63-145
60-29-7	Ethyl Ether	50	43.5	87	82-129
100-41-4	Ethylbenzene	50	43.9	88	80-118
76-13-1	Freon 113	50	55.3	111	76-140
67-72-1	Hexachloroethane	50	50.0	100	77-130
591-78-6	2-Hexanone	50	43.2	86	66-128
123-51-3	IsoAmyl Alcohol	1000	1170	117	60-143
78-83-1	Isobutyl alcohol	500	395	79	59-133
98-82-8	Isopropylbenzene	50	46.9	94	78-125
99-87-6	p-Isopropyltoluene	50	48.9	98	81-124
79-20-9	Methyl Acetate	50	38.7	77	63-120
108-87-2	Methylcyclohexane	50	51.9	104	69-132
1634-04-4	Methyl Tert Butyl Ether	100	87.4	87	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	43.7	87	73-129
75-09-2	Methylene chloride	50	44.8	90	75-122
91-20-3	Naphthalene	50	49.7	99	66-136
103-65-1	n-Propylbenzene	50	49.3	99	81-126
100-42-5	Styrene	50	45.7	91	81-121
75-65-0	Tert Butyl Alcohol	250	214	86	79-121
994-05-8	tert-Amyl Methyl Ether	50	47.1	94	75-123
637-92-3	tert-Butyl Ethyl Ether	50	45.1	90	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	42.3	85	69-116
127-18-4	Tetrachloroethene	50	43.3	87	69-138
109-99-9	Tetrahydrofuran	50	35.4	71	56-132
108-88-3	Toluene	50	47.2	94	80-122
87-61-6	1,2,3-Trichlorobenzene	50	50.8	102	74-137
120-82-1	1,2,4-Trichlorobenzene	50	52.1	104	75-135
71-55-6	1,1,1-Trichloroethane	50	49.3	99	80-131
79-00-5	1,1,2-Trichloroethane	50	45.8	92	78-122
79-01-6	Trichloroethene	50	47.5	95	83-122
75-69-4	Trichlorofluoromethane	50	50.7	101	66-143
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	82-125
75-01-4	Vinyl chloride	50	45.5	91	57-138
	m,p-Xylene	100	89.5	90	82-119
95-47-6	o-Xylene	50	46.2	92	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6208-BS	2D147886.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	136	91	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	108%	73-122%
2037-26-5	Toluene-D8	112%	84-119%
460-00-4	4-Bromofluorobenzene	108%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-BS	2B134301.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4320	86	52-155
67-64-1	Acetone	50	42.6	85	47-144
71-43-2	Benzene	50	52.4	105	81-119
74-97-5	Bromochloromethane	50	52.2	104	84-120
75-27-4	Bromodichloromethane	50	51.7	103	81-125
75-25-2	Bromoform	50	49.9	100	74-128
74-83-9	Bromomethane	50	46.1	92	52-146
78-93-3	2-Butanone (MEK)	50	50.0	100	68-130
71-36-3	n-Butyl Alcohol	2500	2600	104	56-147
104-51-8	n-Butylbenzene	50	53.8	108	79-127
135-98-8	sec-Butylbenzene	50	52.4	105	78-124
98-06-6	tert-Butylbenzene	50	52.4	105	77-127
75-15-0	Carbon disulfide	50	50.1	100	71-129
56-23-5	Carbon tetrachloride	50	52.2	104	77-140
108-90-7	Chlorobenzene	50	50.7	101	84-116
75-45-6	Chlorodifluoromethane	50	41.7	83	44-147
75-00-3	Chloroethane	50	54.5	109	70-148
67-66-3	Chloroform	50	50.0	100	81-120
74-87-3	Chloromethane	50	41.7	83	50-143
110-82-7	Cyclohexane	50	50.9	102	77-125
108-20-3	Di-Isopropyl ether	50	43.9	88	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	47.6	95	66-132
124-48-1	Dibromochloromethane	50	48.8	98	81-122
106-93-4	1,2-Dibromoethane	50	48.1	96	81-120
95-50-1	1,2-Dichlorobenzene	50	53.7	107	80-117
541-73-1	1,3-Dichlorobenzene	50	51.5	103	81-116
106-46-7	1,4-Dichlorobenzene	50	51.7	103	80-115
75-71-8	Dichlorodifluoromethane	50	39.8	80	36-169
75-34-3	1,1-Dichloroethane	50	51.6	103	80-125
107-06-2	1,2-Dichloroethane	50	52.3	105	78-131
75-35-4	1,1-Dichloroethene	50	47.8	96	73-127
156-59-2	cis-1,2-Dichloroethene	50	49.0	98	77-118
156-60-5	trans-1,2-Dichloroethene	50	48.2	96	75-118
78-87-5	1,2-Dichloropropane	50	51.2	102	80-124
142-28-9	1,3-Dichloropropane	50	47.6	95	78-119
10061-01-5	cis-1,3-Dichloropropene	50	49.3	99	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-BS	2B134301.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	48.4	97	73-122
123-91-1	1,4-Dioxane	1250	1310	105	63-145
60-29-7	Ethyl Ether	50	51.6	103	82-129
100-41-4	Ethylbenzene	50	48.2	96	80-118
76-13-1	Freon 113	50	53.4	107	76-140
67-72-1	Hexachloroethane	50	54.5	109	77-130
591-78-6	2-Hexanone	50	49.1	98	66-128
123-51-3	IsoAmyl Alcohol	1000	1550	155* [a]	60-143
78-83-1	Isobutyl alcohol	500	406	81	59-133
98-82-8	Isopropylbenzene	50	51.9	104	78-125
99-87-6	p-Isopropyltoluene	50	53.1	106	81-124
79-20-9	Methyl Acetate	50	45.0	90	63-120
108-87-2	Methylcyclohexane	50	52.3	105	69-132
1634-04-4	Methyl Tert Butyl Ether	100	94.3	94	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.7	103	73-129
75-09-2	Methylene chloride	50	49.8	100	75-122
91-20-3	Naphthalene	50	46.4	93	66-136
103-65-1	n-Propylbenzene	50	54.9	110	81-126
100-42-5	Styrene	50	49.7	99	81-121
75-65-0	Tert Butyl Alcohol	250	196	78* [b]	79-121
994-05-8	tert-Amyl Methyl Ether	50	50.4	101	75-123
637-92-3	tert-Butyl Ethyl Ether	50	47.3	95	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	51.4	103	69-116
127-18-4	Tetrachloroethene	50	52.2	104	69-138
109-99-9	Tetrahydrofuran	50	37.6	75	56-132
108-88-3	Toluene	50	48.7	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	49.6	99	74-137
120-82-1	1,2,4-Trichlorobenzene	50	50.9	102	75-135
71-55-6	1,1,1-Trichloroethane	50	50.4	101	80-131
79-00-5	1,1,2-Trichloroethane	50	52.3	105	78-122
79-01-6	Trichloroethene	50	51.8	104	83-122
75-69-4	Trichlorofluoromethane	50	46.3	93	66-143
95-63-6	1,2,4-Trimethylbenzene	50	56.2	112	82-125
75-01-4	Vinyl chloride	50	45.2	90	57-138
	m,p-Xylene	100	101	101	82-119
95-47-6	o-Xylene	50	49.7	99	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5985-BS	2B134301.D	1	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	151	101	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	100%	73-122%
2037-26-5	Toluene-D8	107%	84-119%
460-00-4	4-Bromofluorobenzene	103%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.
(b) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-BS	2B134376.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4670	93	52-155
67-64-1	Acetone	50	55.9	112	47-144
71-43-2	Benzene	50	55.9	112	81-119
74-97-5	Bromochloromethane	50	52.2	104	84-120
75-27-4	Bromodichloromethane	50	57.4	115	81-125
75-25-2	Bromoform	50	55.4	111	74-128
74-83-9	Bromomethane	50	46.5	93	52-146
78-93-3	2-Butanone (MEK)	50	51.4	103	68-130
71-36-3	n-Butyl Alcohol	2500	2930	117	56-147
104-51-8	n-Butylbenzene	50	56.1	112	79-127
135-98-8	sec-Butylbenzene	50	55.6	111	78-124
98-06-6	tert-Butylbenzene	50	56.2	112	77-127
75-15-0	Carbon disulfide	50	50.3	101	71-129
56-23-5	Carbon tetrachloride	50	59.7	119	77-140
108-90-7	Chlorobenzene	50	52.4	105	84-116
75-45-6	Chlorodifluoromethane	50	46.2	92	44-147
75-00-3	Chloroethane	50	57.3	115	70-148
67-66-3	Chloroform	50	53.0	106	81-120
74-87-3	Chloromethane	50	47.5	95	50-143
110-82-7	Cyclohexane	50	51.2	102	77-125
108-20-3	Di-Isopropyl ether	50	52.4	105	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	50.3	101	66-132
124-48-1	Dibromochloromethane	50	53.2	106	81-122
106-93-4	1,2-Dibromoethane	50	50.3	101	81-120
95-50-1	1,2-Dichlorobenzene	50	56.0	112	80-117
541-73-1	1,3-Dichlorobenzene	50	54.1	108	81-116
106-46-7	1,4-Dichlorobenzene	50	54.1	108	80-115
75-71-8	Dichlorodifluoromethane	50	43.7	87	36-169
75-34-3	1,1-Dichloroethane	50	55.3	111	80-125
107-06-2	1,2-Dichloroethane	50	62.7	125	78-131
75-35-4	1,1-Dichloroethene	50	47.9	96	73-127
156-59-2	cis-1,2-Dichloroethene	50	49.7	99	77-118
156-60-5	trans-1,2-Dichloroethene	50	48.8	98	75-118
78-87-5	1,2-Dichloropropane	50	55.6	111	80-124
142-28-9	1,3-Dichloropropane	50	50.7	101	78-119
10061-01-5	cis-1,3-Dichloropropene	50	51.9	104	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-BS	2B134376.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	52.6	105	73-122
123-91-1	1,4-Dioxane	1250	1240	99	63-145
60-29-7	Ethyl Ether	50	51.0	102	82-129
100-41-4	Ethylbenzene	50	52.4	105	80-118
76-13-1	Freon 113	50	52.4	105	76-140
67-72-1	Hexachloroethane	50	59.8	120	77-130
591-78-6	2-Hexanone	50	53.5	107	66-128
123-51-3	IsoAmyl Alcohol	1000	1770	177* [a]	60-143
78-83-1	Isobutyl alcohol	500	463	93	59-133
98-82-8	Isopropylbenzene	50	55.9	112	78-125
99-87-6	p-Isopropyltoluene	50	56.9	114	81-124
79-20-9	Methyl Acetate	50	46.8	94	63-120
108-87-2	Methylcyclohexane	50	52.0	104	69-132
1634-04-4	Methyl Tert Butyl Ether	100	103	103	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	57.9	116	73-129
75-09-2	Methylene chloride	50	50.4	101	75-122
91-20-3	Naphthalene	50	48.0	96	66-136
103-65-1	n-Propylbenzene	50	59.2	118	81-126
100-42-5	Styrene	50	53.1	106	81-121
75-65-0	Tert Butyl Alcohol	250	215	86	79-121
994-05-8	tert-Amyl Methyl Ether	50	56.4	113	75-123
637-92-3	tert-Butyl Ethyl Ether	50	52.7	105	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	53.6	107	69-116
127-18-4	Tetrachloroethene	50	58.7	117	69-138
109-99-9	Tetrahydrofuran	50	48.5	97	56-132
108-88-3	Toluene	50	50.9	102	80-122
87-61-6	1,2,3-Trichlorobenzene	50	50.4	101	74-137
120-82-1	1,2,4-Trichlorobenzene	50	53.7	107	75-135
71-55-6	1,1,1-Trichloroethane	50	55.6	111	80-131
79-00-5	1,1,2-Trichloroethane	50	54.6	109	78-122
79-01-6	Trichloroethene	50	55.3	111	83-122
75-69-4	Trichlorofluoromethane	50	54.2	108	66-143
95-63-6	1,2,4-Trimethylbenzene	50	60.4	121	82-125
75-01-4	Vinyl chloride	50	48.5	97	57-138
	m,p-Xylene	100	106	106	82-119
95-47-6	o-Xylene	50	52.7	105	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5988-BS	2B134376.D	1	09/11/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	159	106	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	110%	73-122%
2037-26-5	Toluene-D8	106%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-BS	2B134398.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4610	92	52-155
67-64-1	Acetone	50	53.4	107	47-144
71-43-2	Benzene	50	54.7	109	81-119
74-97-5	Bromochloromethane	50	51.6	103	84-120
75-27-4	Bromodichloromethane	50	56.8	114	81-125
75-25-2	Bromoform	50	55.4	111	74-128
74-83-9	Bromomethane	50	49.1	98	52-146
78-93-3	2-Butanone (MEK)	50	51.0	102	68-130
71-36-3	n-Butyl Alcohol	2500	2940	118	56-147
104-51-8	n-Butylbenzene	50	55.4	111	79-127
135-98-8	sec-Butylbenzene	50	54.9	110	78-124
98-06-6	tert-Butylbenzene	50	55.8	112	77-127
75-15-0	Carbon disulfide	50	51.1	102	71-129
56-23-5	Carbon tetrachloride	50	60.4	121	77-140
108-90-7	Chlorobenzene	50	52.5	105	84-116
75-45-6	Chlorodifluoromethane	50	48.3	97	44-147
75-00-3	Chloroethane	50	58.8	118	70-148
67-66-3	Chloroform	50	53.2	106	81-120
74-87-3	Chloromethane	50	47.1	94	50-143
110-82-7	Cyclohexane	50	50.6	101	77-125
108-20-3	Di-Isopropyl ether	50	51.9	104	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	51.2	102	66-132
124-48-1	Dibromochloromethane	50	53.9	108	81-122
106-93-4	1,2-Dibromoethane	50	49.9	100	81-120
95-50-1	1,2-Dichlorobenzene	50	56.0	112	80-117
541-73-1	1,3-Dichlorobenzene	50	53.5	107	81-116
106-46-7	1,4-Dichlorobenzene	50	53.4	107	80-115
75-71-8	Dichlorodifluoromethane	50	44.0	88	36-169
75-34-3	1,1-Dichloroethane	50	54.8	110	80-125
107-06-2	1,2-Dichloroethane	50	62.6	125	78-131
75-35-4	1,1-Dichloroethene	50	47.1	94	73-127
156-59-2	cis-1,2-Dichloroethene	50	49.5	99	77-118
156-60-5	trans-1,2-Dichloroethene	50	48.3	97	75-118
78-87-5	1,2-Dichloropropane	50	54.2	108	80-124
142-28-9	1,3-Dichloropropane	50	50.3	101	78-119
10061-01-5	cis-1,3-Dichloropropene	50	52.5	105	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-BS	2B134398.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	52.7	105	73-122
123-91-1	1,4-Dioxane	1250	1220	98	63-145
60-29-7	Ethyl Ether	50	50.3	101	82-129
100-41-4	Ethylbenzene	50	52.1	104	80-118
76-13-1	Freon 113	50	53.7	107	76-140
67-72-1	Hexachloroethane	50	60.9	122	77-130
591-78-6	2-Hexanone	50	51.7	103	66-128
123-51-3	IsoAmyl Alcohol	1000	1760	176* [a]	60-143
78-83-1	Isobutyl alcohol	500	469	94	59-133
98-82-8	Isopropylbenzene	50	55.5	111	78-125
99-87-6	p-Isopropyltoluene	50	56.0	112	81-124
79-20-9	Methyl Acetate	50	47.5	95	63-120
108-87-2	Methylcyclohexane	50	52.0	104	69-132
1634-04-4	Methyl Tert Butyl Ether	100	104	104	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	58.3	117	73-129
75-09-2	Methylene chloride	50	50.3	101	75-122
91-20-3	Naphthalene	50	48.1	96	66-136
103-65-1	n-Propylbenzene	50	58.4	117	81-126
100-42-5	Styrene	50	52.1	104	81-121
75-65-0	Tert Butyl Alcohol	250	206	82	79-121
994-05-8	tert-Amyl Methyl Ether	50	55.4	111	75-123
637-92-3	tert-Butyl Ethyl Ether	50	52.3	105	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	53.8	108	69-116
127-18-4	Tetrachloroethene	50	55.2	110	69-138
109-99-9	Tetrahydrofuran	50	48.4	97	56-132
108-88-3	Toluene	50	50.2	100	80-122
87-61-6	1,2,3-Trichlorobenzene	50	50.5	101	74-137
120-82-1	1,2,4-Trichlorobenzene	50	52.5	105	75-135
71-55-6	1,1,1-Trichloroethane	50	56.7	113	80-131
79-00-5	1,1,2-Trichloroethane	50	54.4	109	78-122
79-01-6	Trichloroethene	50	53.8	108	83-122
75-69-4	Trichlorofluoromethane	50	55.0	110	66-143
95-63-6	1,2,4-Trimethylbenzene	50	60.0	120	82-125
75-01-4	Vinyl chloride	50	49.6	99	57-138
	m,p-Xylene	100	104	104	82-119
95-47-6	o-Xylene	50	52.2	104	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5989-BS	2B134398.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	156	104	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	112%	73-122%
2037-26-5	Toluene-D8	105%	84-119%
460-00-4	4-Bromofluorobenzene	104%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-BS	2B134428.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4190	84	52-155
67-64-1	Acetone	50	50.3	101	47-144
71-43-2	Benzene	50	52.0	104	81-119
74-97-5	Bromochloromethane	50	48.6	97	84-120
75-27-4	Bromodichloromethane	50	56.4	113	81-125
75-25-2	Bromoform	50	57.0	114	74-128
74-83-9	Bromomethane	50	45.9	92	52-146
78-93-3	2-Butanone (MEK)	50	48.5	97	68-130
71-36-3	n-Butyl Alcohol	2500	2750	110	56-147
104-51-8	n-Butylbenzene	50	55.1	110	79-127
135-98-8	sec-Butylbenzene	50	54.1	108	78-124
98-06-6	tert-Butylbenzene	50	55.4	111	77-127
75-15-0	Carbon disulfide	50	44.9	90	71-129
56-23-5	Carbon tetrachloride	50	59.7	119	77-140
108-90-7	Chlorobenzene	50	51.0	102	84-116
75-45-6	Chlorodifluoromethane	50	38.6	77	44-147
75-00-3	Chloroethane	50	52.8	106	70-148
67-66-3	Chloroform	50	50.0	100	81-120
74-87-3	Chloromethane	50	42.1	84	50-143
110-82-7	Cyclohexane	50	46.1	92	77-125
108-20-3	Di-Isopropyl ether	50	45.8	92	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	53.1	106	66-132
124-48-1	Dibromochloromethane	50	54.2	108	81-122
106-93-4	1,2-Dibromoethane	50	49.8	100	81-120
95-50-1	1,2-Dichlorobenzene	50	55.5	111	80-117
541-73-1	1,3-Dichlorobenzene	50	52.7	105	81-116
106-46-7	1,4-Dichlorobenzene	50	52.9	106	80-115
75-71-8	Dichlorodifluoromethane	50	42.2	84	36-169
75-34-3	1,1-Dichloroethane	50	49.2	98	80-125
107-06-2	1,2-Dichloroethane	50	62.2	124	78-131
75-35-4	1,1-Dichloroethene	50	44.1	88	73-127
156-59-2	cis-1,2-Dichloroethene	50	45.7	91	77-118
156-60-5	trans-1,2-Dichloroethene	50	44.5	89	75-118
78-87-5	1,2-Dichloropropane	50	51.5	103	80-124
142-28-9	1,3-Dichloropropane	50	48.8	98	78-119
10061-01-5	cis-1,3-Dichloropropene	50	51.7	103	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-BS	2B134428.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	52.9	106	73-122
123-91-1	1,4-Dioxane	1250	1180	94	63-145
60-29-7	Ethyl Ether	50	46.8	94	82-129
100-41-4	Ethylbenzene	50	51.3	103	80-118
76-13-1	Freon 113	50	48.5	97	76-140
67-72-1	Hexachloroethane	50	60.9	122	77-130
591-78-6	2-Hexanone	50	52.2	104	66-128
123-51-3	IsoAmyl Alcohol	1000	1640	164* [a]	60-143
78-83-1	Isobutyl alcohol	500	433	87	59-133
98-82-8	Isopropylbenzene	50	54.8	110	78-125
99-87-6	p-Isopropyltoluene	50	56.2	112	81-124
79-20-9	Methyl Acetate	50	43.6	87	63-120
108-87-2	Methylcyclohexane	50	48.8	98	69-132
1634-04-4	Methyl Tert Butyl Ether	100	98.9	99	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	54.2	108	73-129
75-09-2	Methylene chloride	50	45.1	90	75-122
91-20-3	Naphthalene	50	48.0	96	66-136
103-65-1	n-Propylbenzene	50	56.4	113	81-126
100-42-5	Styrene	50	51.4	103	81-121
75-65-0	Tert Butyl Alcohol	250	199	80	79-121
994-05-8	tert-Amyl Methyl Ether	50	54.7	109	75-123
637-92-3	tert-Butyl Ethyl Ether	50	49.6	99	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	51.4	103	69-116
127-18-4	Tetrachloroethene	50	53.4	107	69-138
109-99-9	Tetrahydrofuran	50	45.2	90	56-132
108-88-3	Toluene	50	48.6	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	50.4	101	74-137
120-82-1	1,2,4-Trichlorobenzene	50	53.8	108	75-135
71-55-6	1,1,1-Trichloroethane	50	53.1	106	80-131
79-00-5	1,1,2-Trichloroethane	50	51.7	103	78-122
79-01-6	Trichloroethene	50	53.2	106	83-122
75-69-4	Trichlorofluoromethane	50	53.9	108	66-143
95-63-6	1,2,4-Trimethylbenzene	50	59.3	119	82-125
75-01-4	Vinyl chloride	50	44.6	89	57-138
	m,p-Xylene	100	102	102	82-119
95-47-6	o-Xylene	50	51.3	103	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5990-BS	2B134428.D	1	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	153	102	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	73-122%
2037-26-5	Toluene-D8	106%	84-119%
460-00-4	4-Bromofluorobenzene	105%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-BS	2B134471.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4200	84	52-155
67-64-1	Acetone	50	48.2	96	47-144
71-43-2	Benzene	50	52.7	105	81-119
74-97-5	Bromochloromethane	50	49.0	98	84-120
75-27-4	Bromodichloromethane	50	57.7	115	81-125
75-25-2	Bromoform	50	56.0	112	74-128
74-83-9	Bromomethane	50	47.1	94	52-146
78-93-3	2-Butanone (MEK)	50	47.6	95	68-130
71-36-3	n-Butyl Alcohol	2500	2740	110	56-147
104-51-8	n-Butylbenzene	50	56.3	113	79-127
135-98-8	sec-Butylbenzene	50	55.7	111	78-124
98-06-6	tert-Butylbenzene	50	57.6	115	77-127
75-15-0	Carbon disulfide	50	46.5	93	71-129
56-23-5	Carbon tetrachloride	50	63.3	127	77-140
108-90-7	Chlorobenzene	50	51.8	104	84-116
75-45-6	Chlorodifluoromethane	50	37.1	74	44-147
75-00-3	Chloroethane	50	53.3	107	70-148
67-66-3	Chloroform	50	51.7	103	81-120
74-87-3	Chloromethane	50	41.6	83	50-143
110-82-7	Cyclohexane	50	47.2	94	77-125
108-20-3	Di-Isopropyl ether	50	46.4	93	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	51.3	103	66-132
124-48-1	Dibromochloromethane	50	54.7	109	81-122
106-93-4	1,2-Dibromoethane	50	49.2	98	81-120
95-50-1	1,2-Dichlorobenzene	50	55.7	111	80-117
541-73-1	1,3-Dichlorobenzene	50	53.9	108	81-116
106-46-7	1,4-Dichlorobenzene	50	53.8	108	80-115
75-71-8	Dichlorodifluoromethane	50	45.9	92	36-169
75-34-3	1,1-Dichloroethane	50	50.7	101	80-125
107-06-2	1,2-Dichloroethane	50	63.6	127	78-131
75-35-4	1,1-Dichloroethene	50	45.0	90	73-127
156-59-2	cis-1,2-Dichloroethene	50	46.1	92	77-118
156-60-5	trans-1,2-Dichloroethene	50	45.6	91	75-118
78-87-5	1,2-Dichloropropane	50	51.7	103	80-124
142-28-9	1,3-Dichloropropane	50	48.5	97	78-119
10061-01-5	cis-1,3-Dichloropropene	50	52.5	105	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-BS	2B134471.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	73-122
123-91-1	1,4-Dioxane	1250	1210	97	63-145
60-29-7	Ethyl Ether	50	45.9	92	82-129
100-41-4	Ethylbenzene	50	51.4	103	80-118
76-13-1	Freon 113	50	50.9	102	76-140
67-72-1	Hexachloroethane	50	61.3	123	77-130
591-78-6	2-Hexanone	50	50.1	100	66-128
123-51-3	IsoAmyl Alcohol	1000	1650	165* [a]	60-143
78-83-1	Isobutyl alcohol	500	461	92	59-133
98-82-8	Isopropylbenzene	50	55.5	111	78-125
99-87-6	p-Isopropyltoluene	50	57.2	114	81-124
79-20-9	Methyl Acetate	50	42.6	85	63-120
108-87-2	Methylcyclohexane	50	51.8	104	69-132
1634-04-4	Methyl Tert Butyl Ether	100	99.4	99	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	54.1	108	73-129
75-09-2	Methylene chloride	50	46.3	93	75-122
91-20-3	Naphthalene	50	48.2	96	66-136
103-65-1	n-Propylbenzene	50	58.6	117	81-126
100-42-5	Styrene	50	52.0	104	81-121
75-65-0	Tert Butyl Alcohol	250	210	84	79-121
994-05-8	tert-Amyl Methyl Ether	50	54.8	110	75-123
637-92-3	tert-Butyl Ethyl Ether	50	49.4	99	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	51.2	102	69-116
127-18-4	Tetrachloroethene	50	55.4	111	69-138
109-99-9	Tetrahydrofuran	50	50.9	102	56-132
108-88-3	Toluene	50	49.1	98	80-122
87-61-6	1,2,3-Trichlorobenzene	50	51.2	102	74-137
120-82-1	1,2,4-Trichlorobenzene	50	54.7	109	75-135
71-55-6	1,1,1-Trichloroethane	50	56.3	113	80-131
79-00-5	1,1,2-Trichloroethane	50	52.9	106	78-122
79-01-6	Trichloroethene	50	54.4	109	83-122
75-69-4	Trichlorofluoromethane	50	58.1	116	66-143
95-63-6	1,2,4-Trimethylbenzene	50	61.1	122	82-125
75-01-4	Vinyl chloride	50	47.2	94	57-138
	m,p-Xylene	100	103	103	82-119
95-47-6	o-Xylene	50	51.1	102	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5992-BS	2B134471.D	1	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	154	103	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	76-120%
17060-07-0	1,2-Dichloroethane-D4	110%	73-122%
2037-26-5	Toluene-D8	106%	84-119%
460-00-4	4-Bromofluorobenzene	106%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-BS	2B134520.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4150	83	52-155
67-64-1	Acetone	50	46.6	93	47-144
71-43-2	Benzene	50	51.9	104	81-119
74-97-5	Bromochloromethane	50	49.4	99	84-120
75-27-4	Bromodichloromethane	50	58.5	117	81-125
75-25-2	Bromoform	50	55.8	112	74-128
74-83-9	Bromomethane	50	42.4	85	52-146
78-93-3	2-Butanone (MEK)	50	47.0	94	68-130
71-36-3	n-Butyl Alcohol	2500	2550	102	56-147
104-51-8	n-Butylbenzene	50	54.7	109	79-127
135-98-8	sec-Butylbenzene	50	53.4	107	78-124
98-06-6	tert-Butylbenzene	50	55.8	112	77-127
75-15-0	Carbon disulfide	50	47.8	96	71-129
56-23-5	Carbon tetrachloride	50	65.7	131	77-140
108-90-7	Chlorobenzene	50	51.4	103	84-116
75-45-6	Chlorodifluoromethane	50	50.8	102	44-147
75-00-3	Chloroethane	50	47.1	94	70-148
67-66-3	Chloroform	50	52.4	105	81-120
74-87-3	Chloromethane	50	34.4	69	50-143
110-82-7	Cyclohexane	50	46.6	93	77-125
108-20-3	Di-Isopropyl ether	50	46.4	93	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	49.2	98	66-132
124-48-1	Dibromochloromethane	50	54.8	110	81-122
106-93-4	1,2-Dibromoethane	50	48.6	97	81-120
95-50-1	1,2-Dichlorobenzene	50	54.3	109	80-117
541-73-1	1,3-Dichlorobenzene	50	52.5	105	81-116
106-46-7	1,4-Dichlorobenzene	50	52.9	106	80-115
75-71-8	Dichlorodifluoromethane	50	37.1	74	36-169
75-34-3	1,1-Dichloroethane	50	50.1	100	80-125
107-06-2	1,2-Dichloroethane	50	65.7	131	78-131
75-35-4	1,1-Dichloroethene	50	46.6	93	73-127
156-59-2	cis-1,2-Dichloroethene	50	46.0	92	77-118
156-60-5	trans-1,2-Dichloroethene	50	45.6	91	75-118
78-87-5	1,2-Dichloropropane	50	50.5	101	80-124
142-28-9	1,3-Dichloropropane	50	47.2	94	78-119
10061-01-5	cis-1,3-Dichloropropene	50	51.3	103	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-BS	2B134520.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.0	106	73-122
123-91-1	1,4-Dioxane	1250	1200	96	63-145
60-29-7	Ethyl Ether	50	45.9	92	82-129
100-41-4	Ethylbenzene	50	51.3	103	80-118
76-13-1	Freon 113	50	61.7	123	76-140
67-72-1	Hexachloroethane	50	59.9	120	77-130
591-78-6	2-Hexanone	50	47.8	96	66-128
123-51-3	IsoAmyl Alcohol	1000	1590	159* [a]	60-143
78-83-1	Isobutyl alcohol	500	457	91	59-133
98-82-8	Isopropylbenzene	50	54.4	109	78-125
99-87-6	p-Isopropyltoluene	50	56.2	112	81-124
79-20-9	Methyl Acetate	50	43.9	88	63-120
108-87-2	Methylcyclohexane	50	58.9	118	69-132
1634-04-4	Methyl Tert Butyl Ether	100	102	102	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.5	103	73-129
75-09-2	Methylene chloride	50	46.5	93	75-122
91-20-3	Naphthalene	50	45.7	91	66-136
103-65-1	n-Propylbenzene	50	57.4	115	81-126
100-42-5	Styrene	50	50.2	100	81-121
75-65-0	Tert Butyl Alcohol	250	216	86	79-121
994-05-8	tert-Amyl Methyl Ether	50	55.4	111	75-123
637-92-3	tert-Butyl Ethyl Ether	50	50.8	102	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	48.7	97	69-116
127-18-4	Tetrachloroethene	50	54.7	109	69-138
109-99-9	Tetrahydrofuran	50	40.0	80	56-132
108-88-3	Toluene	50	48.9	98	80-122
87-61-6	1,2,3-Trichlorobenzene	50	48.5	97	74-137
120-82-1	1,2,4-Trichlorobenzene	50	52.4	105	75-135
71-55-6	1,1,1-Trichloroethane	50	57.6	115	80-131
79-00-5	1,1,2-Trichloroethane	50	51.2	102	78-122
79-01-6	Trichloroethene	50	54.0	108	83-122
75-69-4	Trichlorofluoromethane	50	54.9	110	66-143
95-63-6	1,2,4-Trimethylbenzene	50	60.1	120	82-125
75-01-4	Vinyl chloride	50	39.5	79	57-138
	m,p-Xylene	100	102	102	82-119
95-47-6	o-Xylene	50	49.6	99	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5994-BS	2B134520.D	1	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	151	101	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	112%	73-122%
2037-26-5	Toluene-D8	105%	84-119%
460-00-4	4-Bromofluorobenzene	104%	78-117%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-BS	2B134553.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4370	87	52-155
67-64-1	Acetone	50	51.1	102	47-144
71-43-2	Benzene	50	53.4	107	81-119
74-97-5	Bromochloromethane	50	50.6	101	84-120
75-27-4	Bromodichloromethane	50	60.4	121	81-125
75-25-2	Bromoform	50	59.9	120	74-128
74-83-9	Bromomethane	50	46.5	93	52-146
78-93-3	2-Butanone (MEK)	50	49.7	99	68-130
71-36-3	n-Butyl Alcohol	2500	2620	105	56-147
104-51-8	n-Butylbenzene	50	55.2	110	79-127
135-98-8	sec-Butylbenzene	50	54.4	109	78-124
98-06-6	tert-Butylbenzene	50	56.4	113	77-127
75-15-0	Carbon disulfide	50	49.4	99	71-129
56-23-5	Carbon tetrachloride	50	65.7	131	77-140
108-90-7	Chlorobenzene	50	52.5	105	84-116
75-45-6	Chlorodifluoromethane	50	43.9	88	44-147
75-00-3	Chloroethane	50	53.3	107	70-148
67-66-3	Chloroform	50	53.1	106	81-120
74-87-3	Chloromethane	50	44.0	88	50-143
110-82-7	Cyclohexane	50	48.8	98	77-125
108-20-3	Di-Isopropyl ether	50	48.5	97	66-128
96-12-8	1,2-Dibromo-3-chloropropane	50	51.5	103	66-132
124-48-1	Dibromochloromethane	50	56.6	113	81-122
106-93-4	1,2-Dibromoethane	50	51.0	102	81-120
95-50-1	1,2-Dichlorobenzene	50	55.3	111	80-117
541-73-1	1,3-Dichlorobenzene	50	52.8	106	81-116
106-46-7	1,4-Dichlorobenzene	50	53.0	106	80-115
75-71-8	Dichlorodifluoromethane	50	46.0	92	36-169
75-34-3	1,1-Dichloroethane	50	53.0	106	80-125
107-06-2	1,2-Dichloroethane	50	67.4	135* [a]	78-131
75-35-4	1,1-Dichloroethene	50	46.3	93	73-127
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	77-118
156-60-5	trans-1,2-Dichloroethene	50	46.6	93	75-118
78-87-5	1,2-Dichloropropane	50	53.2	106	80-124
142-28-9	1,3-Dichloropropane	50	50.5	101	78-119
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	72-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-BS	2B134553.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	55.2	110	73-122
123-91-1	1,4-Dioxane	1250	1190	95	63-145
60-29-7	Ethyl Ether	50	47.7	95	82-129
100-41-4	Ethylbenzene	50	52.5	105	80-118
76-13-1	Freon 113	50	55.1	110	76-140
67-72-1	Hexachloroethane	50	63.2	126	77-130
591-78-6	2-Hexanone	50	50.4	101	66-128
123-51-3	IsoAmyl Alcohol	1000	1620	162* [b]	60-143
78-83-1	Isobutyl alcohol	500	470	94	59-133
98-82-8	Isopropylbenzene	50	54.7	109	78-125
99-87-6	p-Isopropyltoluene	50	56.4	113	81-124
79-20-9	Methyl Acetate	50	43.4	87	63-120
108-87-2	Methylcyclohexane	50	53.9	108	69-132
1634-04-4	Methyl Tert Butyl Ether	100	101	101	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.9	108	73-129
75-09-2	Methylene chloride	50	47.6	95	75-122
91-20-3	Naphthalene	50	47.6	95	66-136
103-65-1	n-Propylbenzene	50	57.6	115	81-126
100-42-5	Styrene	50	51.9	104	81-121
75-65-0	Tert Butyl Alcohol	250	217	87	79-121
994-05-8	tert-Amyl Methyl Ether	50	55.6	111	75-123
637-92-3	tert-Butyl Ethyl Ether	50	50.9	102	72-127
79-34-5	1,1,2,2-Tetrachloroethane	50	50.8	102	69-116
127-18-4	Tetrachloroethene	50	55.1	110	69-138
109-99-9	Tetrahydrofuran	50	45.2	90	56-132
108-88-3	Toluene	50	49.4	99	80-122
87-61-6	1,2,3-Trichlorobenzene	50	52.7	105	74-137
120-82-1	1,2,4-Trichlorobenzene	50	54.9	110	75-135
71-55-6	1,1,1-Trichloroethane	50	58.1	116	80-131
79-00-5	1,1,2-Trichloroethane	50	53.3	107	78-122
79-01-6	Trichloroethene	50	54.3	109	83-122
75-69-4	Trichlorofluoromethane	50	58.1	116	66-143
95-63-6	1,2,4-Trimethylbenzene	50	59.8	120	82-125
75-01-4	Vinyl chloride	50	46.6	93	57-138
	m,p-Xylene	100	104	104	82-119
95-47-6	o-Xylene	50	52.5	105	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5996-BS	2B134553.D	1	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	150	156	104	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	114%	73-122%
2037-26-5	Toluene-D8	104%	84-119%
460-00-4	4-Bromofluorobenzene	103%	78-117%

(a) High percent recoveries and no associated positive reported in the QC batch.
(b) Outside control limits. No associated sample required/reported for this compound.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-6MS	2D147895.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-6	2D147889.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
64-17-5	Ethanol	ND		5000	3920	78	47-155
67-64-1	Acetone	ND		50	38.2	76	33-158
71-43-2	Benzene	ND		50	45.6	91	43-138
74-97-5	Bromochloromethane	ND		50	45.5	91	75-127
75-27-4	Bromodichloromethane	ND		50	48.3	97	72-128
75-25-2	Bromoform	ND		50	43.3	87	70-131
74-83-9	Bromomethane	ND		50	50.4	101	47-142
78-93-3	2-Butanone (MEK)	ND		50	43.7	87	56-146
71-36-3	n-Butyl Alcohol	ND		2500	1840	74	50-154
104-51-8	n-Butylbenzene	ND		50	50.2	100	50-142
135-98-8	sec-Butylbenzene	ND		50	46.7	93	52-138
98-06-6	tert-Butylbenzene	ND		50	46.1	92	55-137
75-15-0	Carbon disulfide	ND		50	47.9	96	38-136
56-23-5	Carbon tetrachloride	ND		50	52.4	105	45-149
108-90-7	Chlorobenzene	ND		50	44.7	89	70-124
75-45-6	Chlorodifluoromethane	ND		50	43.9	88	26-147
75-00-3	Chloroethane	ND		50	54.0	108	47-139
67-66-3	Chloroform	ND		50	47.4	95	66-126
74-87-3	Chloromethane	ND		50	43.4	87	41-140
110-82-7	Cyclohexane	ND		50	48.3	97	30-148
108-20-3	Di-Isopropyl ether	ND		50	39.7	79	59-131
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.2	90	64-136
124-48-1	Dibromochloromethane	ND		50	44.6	89	75-126
106-93-4	1,2-Dibromoethane	ND		50	41.6	83	77-124
95-50-1	1,2-Dichlorobenzene	ND		50	48.1	96	71-124
541-73-1	1,3-Dichlorobenzene	ND		50	47.2	94	69-125
106-46-7	1,4-Dichlorobenzene	ND		50	47.1	94	69-122
75-71-8	Dichlorodifluoromethane	ND		50	53.7	107	24-161
75-34-3	1,1-Dichloroethane	ND		50	45.9	92	60-129
107-06-2	1,2-Dichloroethane	ND		50	48.1	96	72-133
75-35-4	1,1-Dichloroethene	ND		50	46.9	94	40-137
156-59-2	cis-1,2-Dichloroethene	ND		50	46.0	92	57-128
156-60-5	trans-1,2-Dichloroethene	ND		50	46.3	93	53-128
78-87-5	1,2-Dichloropropane	ND		50	44.5	89	69-127
142-28-9	1,3-Dichloropropane	ND		50	41.2	82	73-123
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.4	97	67-129

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-6MS	2D147895.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-6	2D147889.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.1	94	68-130
123-91-1	1,4-Dioxane	833		1250	1800	77	56-146
60-29-7	Ethyl Ether	0.66	J	50	44.4	87	69-130
100-41-4	Ethylbenzene	ND		50	43.9	88	38-139
76-13-1	Freon 113	ND		50	53.9	108	34-154
67-72-1	Hexachloroethane	ND		50	47.9	96	49-143
591-78-6	2-Hexanone	ND		50	44.3	89	55-148
123-51-3	IsoAmyl Alcohol	ND		1000	1180	118	55-157
78-83-1	Isobutyl alcohol	ND		500	396	79	49-139
98-82-8	Isopropylbenzene	ND		50	45.7	91	54-137
99-87-6	p-Isopropyltoluene	ND		50	47.1	94	57-135
79-20-9	Methyl Acetate	ND		50	37.8	76	60-137
108-87-2	Methylcyclohexane	ND		50	48.2	96	30-152
1634-04-4	Methyl Tert Butyl Ether	1.8		100	88.2	86	64-132
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	45.1	90	68-139
75-09-2	Methylene chloride	ND		50	46.1	92	63-128
91-20-3	Naphthalene	ND		50	52.9	106	57-149
103-65-1	n-Propylbenzene	ND		50	47.6	95	49-136
100-42-5	Styrene	ND		50	45.7	91	61-134
75-65-0	Tert Butyl Alcohol	ND		250	207	83	67-138
994-05-8	tert-Amyl Methyl Ether	ND		50	47.1	94	67-132
637-92-3	tert-Butyl Ethyl Ether	ND		50	44.9	90	65-133
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	41.4	83	67-126
127-18-4	Tetrachloroethene	ND		50	43.5	87	43-145
109-99-9	Tetrahydrofuran	ND		50	34.0	68	49-135
108-88-3	Toluene	ND		50	48.5	97	51-136
87-61-6	1,2,3-Trichlorobenzene	ND		50	51.5	103	66-140
120-82-1	1,2,4-Trichlorobenzene	ND		50	51.3	103	65-138
71-55-6	1,1,1-Trichloroethane	ND		50	51.0	102	51-141
79-00-5	1,1,2-Trichloroethane	ND		50	46.8	94	71-127
79-01-6	Trichloroethene	ND		50	48.0	96	55-136
75-69-4	Trichlorofluoromethane	ND		50	53.8	108	33-157
95-63-6	1,2,4-Trimethylbenzene	ND		50	49.2	98	40-143
75-01-4	Vinyl chloride	ND		50	48.4	97	34-147
	m,p-Xylene	ND		100	89.2	89	42-139
95-47-6	o-Xylene	ND		50	45.3	91	56-134

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-6MS	2D147895.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-6	2D147889.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
1330-20-7	Xylene (total)	ND		150	134	89	46-137

CAS No.	Surrogate Recoveries	MS	JC3254-6	Limits
1868-53-7	Dibromofluoromethane	108%	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	111%	109%	73-122%
2037-26-5	Toluene-D8	114%	113%	84-119%
460-00-4	4-Bromofluorobenzene	107%	112%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3137-3MS	2B134312.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3MSD	2B134313.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3	2B134306.D	20	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	JC3137-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		100000	85100	85	100000	81000	81	5	47-155/17
67-64-1	Acetone	ND		1000	773	77	1000	814	81	5	33-158/19
71-43-2	Benzene	ND		1000	981	98	1000	967	97	1	43-138/12
74-97-5	Bromochloromethane	ND		1000	965	97	1000	963	96	0	75-127/12
75-27-4	Bromodichloromethane	ND		1000	981	98	1000	971	97	1	72-128/13
75-25-2	Bromoform	ND		1000	940	94	1000	947	95	1	70-131/12
74-83-9	Bromomethane	ND		1000	1000	100	1000	992	99	1	47-142/16
78-93-3	2-Butanone (MEK)	ND		1000	959	96	1000	938	94	2	56-146/12
71-36-3	n-Butyl Alcohol	ND		50000	52900	106	50000	52700	105	0	50-154/17
104-51-8	n-Butylbenzene	ND		1000	1000	100	1000	1010	101	1	50-142/15
135-98-8	sec-Butylbenzene	ND		1000	980	98	1000	987	99	1	52-138/16
98-06-6	tert-Butylbenzene	ND		1000	987	99	1000	998	100	1	55-137/16
75-15-0	Carbon disulfide	ND		1000	881	88	1000	884	88	0	38-136/17
56-23-5	Carbon tetrachloride	ND		1000	966	97	1000	976	98	1	45-149/17
108-90-7	Chlorobenzene	ND		1000	944	94	1000	948	95	0	70-124/12
75-45-6	Chlorodifluoromethane	ND		1000	810	81	1000	790	79	3	26-147/19
75-00-3	Chloroethane	ND		1000	1170	117	1000	1150	115	2	47-139/15
67-66-3	Chloroform	ND		1000	932	93	1000	912	91	2	66-126/13
74-87-3	Chloromethane	ND		1000	943	94	1000	917	92	3	41-140/15
110-82-7	Cyclohexane	ND		1000	914	91	1000	916	92	0	30-148/17
108-20-3	Di-Isopropyl ether	ND		1000	854	85	1000	838	84	2	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		1000	930	93	1000	930	93	0	64-136/14
124-48-1	Dibromochloromethane	ND		1000	919	92	1000	927	93	1	75-126/12
106-93-4	1,2-Dibromoethane	ND		1000	897	90	1000	890	89	1	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		1000	1020	102	1000	1020	102	0	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		1000	985	99	1000	977	98	1	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		1000	984	98	1000	979	98	1	69-122/12
75-71-8	Dichlorodifluoromethane	ND		1000	883	88	1000	869	87	2	24-161/20
75-34-3	1,1-Dichloroethane	ND		1000	946	95	1000	922	92	3	60-129/13
107-06-2	1,2-Dichloroethane	ND		1000	987	99	1000	957	96	3	72-133/12
75-35-4	1,1-Dichloroethene	ND		1000	844	84	1000	880	88	4	40-137/17
156-59-2	cis-1,2-Dichloroethene	845		1000	1680	84	1000	1680	84	0	57-128/13
156-60-5	trans-1,2-Dichloroethene	47.5		1000	928	88	1000	922	87	1	53-128/15
78-87-5	1,2-Dichloropropane	ND		1000	956	96	1000	929	93	3	69-127/12
142-28-9	1,3-Dichloropropane	ND		1000	890	89	1000	878	88	1	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		1000	935	94	1000	919	92	2	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3137-3MS	2B134312.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3MSD	2B134313.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3	2B134306.D	20	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	JC3137-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1000	914	91	1000	895	90	2	68-130/14
123-91-1	1,4-Dioxane	ND		25000	26100	104	25000	26300	105	1	56-146/21
60-29-7	Ethyl Ether	ND		1000	944	94	1000	940	94	0	69-130/13
100-41-4	Ethylbenzene	ND		1000	893	89	1000	896	90	0	38-139/12
76-13-1	Freon 113	ND		1000	1030	103	1000	1030	103	0	34-154/18
67-72-1	Hexachloroethane	ND		1000	1020	102	1000	1050	105	3	49-143/18
591-78-6	2-Hexanone	ND		1000	906	91	1000	921	92	2	55-148/15
123-51-3	IsoAmyl Alcohol	ND		20000	32000	160* [a]	20000	31600	158* [a]	1	55-157/17
78-83-1	Isobutyl alcohol	ND		10000	7620	76	10000	7450	75	2	49-139/16
98-82-8	Isopropylbenzene	ND		1000	971	97	1000	981	98	1	54-137/15
99-87-6	p-Isopropyltoluene	ND		1000	1000	100	1000	1010	101	1	57-135/16
79-20-9	Methyl Acetate	ND		1000	883	88	1000	880	88	0	60-137/13
108-87-2	Methylcyclohexane	ND		1000	995	100	1000	996	100	0	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		2000	1800	90	2000	1780	89	1	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1000	1040	104	1000	1020	102	2	68-139/12
75-09-2	Methylene chloride	ND		1000	923	92	1000	911	91	1	63-128/13
91-20-3	Naphthalene	ND		1000	902	90	1000	928	93	3	57-149/13
103-65-1	n-Propylbenzene	ND		1000	1030	103	1000	1030	103	0	49-136/14
100-42-5	Styrene	ND		1000	928	93	1000	931	93	0	61-134/13
75-65-0	Tert Butyl Alcohol	ND		5000	3910	78	5000	3940	79	1	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		1000	992	99	1000	998	100	1	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		1000	909	91	1000	915	92	1	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	1010	101	1000	979	98	3	67-126/13
127-18-4	Tetrachloroethene	ND		1000	947	95	1000	963	96	2	43-145/15
109-99-9	Tetrahydrofuran	ND		1000	702	70	1000	832	83	17* [b]	49-135/14
108-88-3	Toluene	ND		1000	909	91	1000	911	91	0	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		1000	961	96	1000	987	99	3	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		1000	973	97	1000	992	99	2	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		1000	928	93	1000	922	92	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		1000	1010	101	1000	983	98	3	71-127/12
79-01-6	Trichloroethene	3110		1000	3660	55	1000	3650	54* [c]	0	55-136/14
75-69-4	Trichlorofluoromethane	ND		1000	974	97	1000	967	97	1	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		1000	1050	105	1000	1060	106	1	40-143/13
75-01-4	Vinyl chloride	67.9		1000	1050	98	1000	1040	97	1	34-147/17
	m,p-Xylene	ND		2000	1860	93	2000	1880	94	1	42-139/13
95-47-6	o-Xylene	ND		1000	925	93	1000	943	94	2	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3137-3MS	2B134312.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3MSD	2B134313.D	20	09/10/15	BK	n/a	n/a	V2B5985
JC3137-3	2B134306.D	20	09/10/15	BK	n/a	n/a	V2B5985

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

JC3254-2R, JC3254-4R, JC3254-5R

CAS No.	Compound	JC3137-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		3000	2780	93	3000	2820	94	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3137-3	Limits
1868-53-7	Dibromofluoromethane	102%	101%	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	99%	97%	105%	73-122%
2037-26-5	Toluene-D8	107%	106%	104%	84-119%
460-00-4	4-Bromofluorobenzene	103%	103%	102%	78-117%

(a) Outside in house control limits.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-25RMS	2B134377R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25RMSD	2B134378R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134380R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134381R.D	100	09/12/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	JC3254-25R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		50000	46400	93	50000	43900	88	6	47-155/17
67-64-1	Acetone	ND		500	532	106	500	505	101	5	33-158/19
71-43-2	Benzene	2.6	J	500	547	109	500	540	107	1	43-138/12
74-97-5	Bromochloromethane	ND		500	512	102	500	503	101	2	75-127/12
75-27-4	Bromodichloromethane	ND		500	566	113	500	565	113	0	72-128/13
75-25-2	Bromoform	ND		500	552	110	500	565	113	2	70-131/12
74-83-9	Bromomethane	ND		500	474	95	500	463	93	2	47-142/16
78-93-3	2-Butanone (MEK)	ND		500	506	101	500	513	103	1	56-146/12
71-36-3	n-Butyl Alcohol	ND		25000	29600	118	25000	29400	118	1	50-154/17
104-51-8	n-Butylbenzene	ND		500	549	110	500	548	110	0	50-142/15
135-98-8	sec-Butylbenzene	ND		500	544	109	500	547	109	1	52-138/16
98-06-6	tert-Butylbenzene	ND		500	558	112	500	564	113	1	55-137/16
75-15-0	Carbon disulfide	ND		500	496	99	500	484	97	2	38-136/17
56-23-5	Carbon tetrachloride	ND		500	595	119	500	586	117	2	45-149/17
108-90-7	Chlorobenzene	ND		500	520	104	500	521	104	0	70-124/12
75-45-6	Chlorodifluoromethane	ND		500	445	89	500	441	88	1	26-147/19
75-00-3	Chloroethane	ND		500	571	114	500	557	111	2	47-139/15
67-66-3	Chloroform	ND		500	526	105	500	515	103	2	66-126/13
74-87-3	Chloromethane	ND		500	470	94	500	463	93	2	41-140/15
110-82-7	Cyclohexane	ND		500	493	99	500	478	96	3	30-148/17
108-20-3	Di-Isopropyl ether	ND		500	508	102	500	498	100	2	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	496	99	500	523	105	5	64-136/14
124-48-1	Dibromochloromethane	ND		500	526	105	500	533	107	1	75-126/12
106-93-4	1,2-Dibromoethane	ND		500	501	100	500	500	100	0	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		500	560	112	500	562	112	0	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		500	534	107	500	533	107	0	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		500	532	106	500	536	107	1	69-122/12
75-71-8	Dichlorodifluoromethane	ND		500	412	82	500	420	84	2	24-161/20
75-34-3	1,1-Dichloroethane	ND		500	537	107	500	530	106	1	60-129/13
107-06-2	1,2-Dichloroethane	ND		500	617	123	500	610	122	1	72-133/12
75-35-4	1,1-Dichloroethene	ND		500	474	95	500	467	93	1	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		500	492	98	500	481	96	2	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		500	479	96	500	467	93	3	53-128/15
78-87-5	1,2-Dichloropropane	ND		500	539	108	500	534	107	1	69-127/12
142-28-9	1,3-Dichloropropane	ND		500	499	100	500	501	100	0	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	519	104	500	522	104	1	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-25RMS	2B134377R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25RMSD	2B134378R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134380R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134381R.D	100	09/12/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	JC3254-25R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		500	521	104	500	519	104	0	68-130/14
123-91-1	1,4-Dioxane	ND		12500	12500	100	12500	12400	99	1	56-146/21
60-29-7	Ethyl Ether	ND		500	505	101	500	501	100	1	69-130/13
100-41-4	Ethylbenzene	3740 [b]		500	3550	-38* [a]	500	3570	-34* [a]	1	38-139/12
76-13-1	Freon 113	ND		500	498	100	500	485	97	3	34-154/18
67-72-1	Hexachloroethane	ND		500	601	120	500	600	120	0	49-143/18
591-78-6	2-Hexanone	ND		500	540	108	500	542	108	0	55-148/15
123-51-3	IsoAmyl Alcohol	ND		10000	17600	176* [c]	10000	17500	175* [c]	1	55-157/17
78-83-1	Isobutyl alcohol	ND		5000	4500	90	5000	4460	89	1	49-139/16
98-82-8	Isopropylbenzene	28.9		500	587	112	500	590	112	1	54-137/15
99-87-6	p-Isopropyltoluene	ND		500	557	111	500	561	112	1	57-135/16
79-20-9	Methyl Acetate	ND		500	453	91	500	447	89	1	60-137/13
108-87-2	Methylcyclohexane	ND		500	497	99	500	491	98	1	30-152/17
1634-04-4	Methyl Tert Butyl Ether	11.0		1000	1030	102	1000	1020	101	1	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		500	577	115	500	561	112	3	68-139/12
75-09-2	Methylene chloride	ND		500	491	98	500	474	95	4	63-128/13
91-20-3	Naphthalene	ND		500	479	96	500	498	100	4	57-149/13
103-65-1	n-Propylbenzene	6.2	J	500	581	115	500	583	115	0	49-136/14
100-42-5	Styrene	ND		500	520	104	500	526	105	1	61-134/13
75-65-0	Tert Butyl Alcohol	65.3	J	2500	2240	87	2500	2210	86	1	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		500	547	109	500	540	108	1	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		500	516	103	500	514	103	0	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	532	106	500	532	106	0	67-126/13
127-18-4	Tetrachloroethene	ND		500	536	107	500	535	107	0	43-145/15
109-99-9	Tetrahydrofuran	ND		500	541	108	500	534	107	1	49-135/14
108-88-3	Toluene	ND		500	501	100	500	496	99	1	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		500	503	101	500	521	104	4	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		500	522	104	500	538	108	3	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		500	548	110	500	543	109	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		500	532	106	500	531	106	0	71-127/12
79-01-6	Trichloroethene	ND		500	545	109	500	541	108	1	55-136/14
75-69-4	Trichlorofluoromethane	ND		500	527	105	500	516	103	2	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		500	595	119	500	600	120	1	40-143/13
75-01-4	Vinyl chloride	ND		500	486	97	500	479	96	1	34-147/17
	m,p-Xylene	ND		1000	1030	103	1000	1030	103	0	42-139/13
95-47-6	o-Xylene	ND		500	518	104	500	524	105	1	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-25RMS	2B134377R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25RMSD	2B134378R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134380R.D	10	09/12/15	BK	n/a	n/a	V2B5988
JC3254-25R	2B134381R.D	100	09/12/15	BK	n/a	n/a	V2B5988

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

JC3254-21R, JC3254-22R, JC3254-23R, JC3254-24R, JC3254-25R, JC3254-26R, JC3254-27R, JC3254-29R, JC3254-30R, JC3254-31R

CAS No.	Compound	JC3254-25R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		1500	1550	103	1500	1560	104	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3254-25R	JC3254-25R	Limits
1868-53-7	Dibromofluoromethane	100%	98%	102%	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	107%	111%	110%	73-122%
2037-26-5	Toluene-D8	105%	105%	105%	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	105%	105%	78-117%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-16RMS	2B134424R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16RMSD	2B134425R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16R	2B134400R.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	JC3254-16R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		5000	3900	78	5000	4140	83	6	47-155/17
67-64-1	Acetone	ND		50	48.1	96	50	47.0	94	2	33-158/19
71-43-2	Benzene	ND		50	50.2	100	50	50.8	102	1	43-138/12
74-97-5	Bromochloromethane	ND		50	47.1	94	50	47.7	95	1	75-127/12
75-27-4	Bromodichloromethane	ND		50	54.9	110	50	55.4	111	1	72-128/13
75-25-2	Bromoform	ND		50	57.2	114	50	55.6	111	3	70-131/12
74-83-9	Bromomethane	ND		50	46.9	94	50	47.4	95	1	47-142/16
78-93-3	2-Butanone (MEK)	ND		50	47.6	95	50	46.3	93	3	56-146/12
71-36-3	n-Butyl Alcohol	ND		2500	2670	107	2500	2860	114	7	50-154/17
104-51-8	n-Butylbenzene	ND		50	55.7	111	50	55.9	112	0	50-142/15
135-98-8	sec-Butylbenzene	ND		50	54.5	109	50	55.0	110	1	52-138/16
98-06-6	tert-Butylbenzene	ND		50	55.8	112	50	56.2	112	1	55-137/16
75-15-0	Carbon disulfide	ND		50	42.7	85	50	42.7	85	0	38-136/17
56-23-5	Carbon tetrachloride	ND		50	59.5	119	50	59.9	120	1	45-149/17
108-90-7	Chlorobenzene	ND		50	50.5	101	50	51.0	102	1	70-124/12
75-45-6	Chlorodifluoromethane	ND		50	40.6	81	50	39.0	78	4	26-147/19
75-00-3	Chloroethane	ND		50	53.7	107	50	54.6	109	2	47-139/15
67-66-3	Chloroform	ND		50	49.2	98	50	49.7	99	1	66-126/13
74-87-3	Chloromethane	ND		50	43.8	88	50	44.6	89	2	41-140/15
110-82-7	Cyclohexane	ND		50	45.2	90	50	45.5	91	1	30-148/17
108-20-3	Di-Isopropyl ether	ND		50	45.7	91	50	45.7	91	0	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	51.4	103	50	52.4	105	2	64-136/14
124-48-1	Dibromochloromethane	ND		50	53.3	107	50	53.8	108	1	75-126/12
106-93-4	1,2-Dibromoethane	ND		50	49.2	98	50	48.7	97	1	77-124/11
95-50-1	1,2-Dichlorobenzene	1.5		50	56.7	110	50	57.1	111	1	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		50	52.4	105	50	52.9	106	1	69-125/12
106-46-7	1,4-Dichlorobenzene	0.48	J	50	52.9	105	50	53.1	105	0	69-122/12
75-71-8	Dichlorodifluoromethane	ND		50	46.4	93	50	45.2	90	3	24-161/20
75-34-3	1,1-Dichloroethane	ND		50	48.0	96	50	48.6	97	1	60-129/13
107-06-2	1,2-Dichloroethane	ND		50	59.3	119	50	60.4	121	2	72-133/12
75-35-4	1,1-Dichloroethene	ND		50	42.3	85	50	43.4	87	3	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		50	44.6	89	50	45.0	90	1	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		50	42.7	85	50	42.7	85	0	53-128/15
78-87-5	1,2-Dichloropropane	ND		50	49.9	100	50	50.8	102	2	69-127/12
142-28-9	1,3-Dichloropropane	ND		50	48.4	97	50	48.3	97	0	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		50	51.3	103	50	51.6	103	1	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-16RMS	2B134424R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16RMSD	2B134425R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16R	2B134400R.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	JC3254-16R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	51.6	103	50	52.4	105	2	68-130/14
123-91-1	1,4-Dioxane	ND		1250	1130	90	1250	1250	100	10	56-146/21
60-29-7	Ethyl Ether	ND		50	45.1	90	50	44.0	88	2	69-130/13
100-41-4	Ethylbenzene	ND		50	51.5	103	50	51.4	103	0	38-139/12
76-13-1	Freon 113	ND		50	49.5	99	50	49.0	98	1	34-154/18
67-72-1	Hexachloroethane	ND		50	60.7	121	50	61.9	124	2	49-143/18
591-78-6	2-Hexanone	ND		50	51.9	104	50	51.9	104	0	55-148/15
123-51-3	IsoAmyl Alcohol	ND		1000	1640	164* [a]	1000	1700	170* [a]	4	55-157/17
78-83-1	Isobutyl alcohol	ND		500	436	87	500	445	89	2	49-139/16
98-82-8	Isopropylbenzene	ND		50	54.2	108	50	55.3	111	2	54-137/15
99-87-6	p-Isopropyltoluene	ND		50	56.2	112	50	57.0	114	1	57-135/16
79-20-9	Methyl Acetate	ND		50	41.9	84	50	41.6	83	1	60-137/13
108-87-2	Methylcyclohexane	ND		50	50.4	101	50	50.6	101	0	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		100	97.1	97	100	97.3	97	0	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	53.3	107	50	54.7	109	3	68-139/12
75-09-2	Methylene chloride	ND		50	44.1	88	50	44.4	89	1	63-128/13
91-20-3	Naphthalene	ND		50	47.5	95	50	48.3	97	2	57-149/13
103-65-1	n-Propylbenzene	ND		50	56.8	114	50	57.4	115	1	49-136/14
100-42-5	Styrene	ND		50	51.2	102	50	51.1	102	0	61-134/13
75-65-0	Tert Butyl Alcohol	ND		250	194	78	250	208	83	7	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		50	53.6	107	50	53.6	107	0	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		50	48.9	98	50	49.4	99	1	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	50.5	101	50	50.6	101	0	67-126/13
127-18-4	Tetrachloroethene	ND		50	53.4	107	50	53.8	108	1	43-145/15
109-99-9	Tetrahydrofuran	ND		50	51.6	103	50	42.4	85	20* [b]	49-135/14
108-88-3	Toluene	ND		50	47.5	95	50	48.2	96	1	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		50	49.9	100	50	50.2	100	1	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.9	106	50	53.3	107	1	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		50	53.0	106	50	53.4	107	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		50	50.0	100	50	51.0	102	2	71-127/12
79-01-6	Trichloroethene	ND		50	51.2	102	50	52.9	106	3	55-136/14
75-69-4	Trichlorofluoromethane	ND		50	55.3	111	50	54.9	110	1	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		50	59.3	119	50	59.7	119	1	40-143/13
75-01-4	Vinyl chloride	ND		50	47.1	94	50	47.4	95	1	34-147/17
	m,p-Xylene	ND		100	103	103	100	102	102	1	42-139/13
95-47-6	o-Xylene	ND		50	51.2	102	50	51.2	102	0	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-16RMS	2B134424R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16RMSD	2B134425R.D	1	09/14/15	BK	n/a	n/a	V2B5989
JC3254-16R	2B134400R.D	1	09/12/15	BK	n/a	n/a	V2B5989

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

JC3254-3R, JC3254-16R, JC3254-17R, JC3254-18R, JC3254-19R

CAS No.	Compound	JC3254-16R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		150	154	103	150	153	102	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3254-16R	Limits
1868-53-7	Dibromofluoromethane	98%	99%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	108%	113%	73-122%
2037-26-5	Toluene-D8	104%	106%	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	104%	78-117%

(a) Outside in house control limits.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3538-8MS	2B134435.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8MSD	2B134436.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8	2B134433.D	10	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	JC3538-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		50000	42500	85	50000	44400	89	4	47-155/17
67-64-1	Acetone	ND		500	464	93	500	488	98	5	33-158/19
71-43-2	Benzene	ND		500	520	104	500	518	104	0	43-138/12
74-97-5	Bromochloromethane	ND		500	484	97	500	477	95	1	75-127/12
75-27-4	Bromodichloromethane	ND		500	564	113	500	565	113	0	72-128/13
75-25-2	Bromoform	ND		500	570	114	500	571	114	0	70-131/12
74-83-9	Bromomethane	ND		500	460	92	500	464	93	1	47-142/16
78-93-3	2-Butanone (MEK)	ND		500	610	122	500	616	123	1	56-146/12
71-36-3	n-Butyl Alcohol	ND		25000	28500	114	25000	30500	122	7	50-154/17
104-51-8	n-Butylbenzene	ND		500	562	112	500	564	113	0	50-142/15
135-98-8	sec-Butylbenzene	ND		500	552	110	500	551	110	0	52-138/16
98-06-6	tert-Butylbenzene	ND		500	564	113	500	565	113	0	55-137/16
75-15-0	Carbon disulfide	ND		500	440	88	500	437	87	1	38-136/17
56-23-5	Carbon tetrachloride	ND		500	606	121	500	607	121	0	45-149/17
108-90-7	Chlorobenzene	4.4	J	500	519	103	500	515	102	1	70-124/12
75-45-6	Chlorodifluoromethane	ND		500	388	78	500	401	80	3	26-147/19
75-00-3	Chloroethane	ND		500	533	107	500	531	106	0	47-139/15
67-66-3	Chloroform	ND		500	507	101	500	505	101	0	66-126/13
74-87-3	Chloromethane	ND		500	411	82	500	431	86	5	41-140/15
110-82-7	Cyclohexane	ND		500	464	93	500	464	93	0	30-148/17
108-20-3	Di-Isopropyl ether	ND		500	474	95	500	467	93	1	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	515	103	500	524	105	2	64-136/14
124-48-1	Dibromochloromethane	ND		500	539	108	500	538	108	0	75-126/12
106-93-4	1,2-Dibromoethane	ND		500	499	100	500	495	99	1	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		500	560	112	500	557	111	1	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		500	533	107	500	529	106	1	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		500	533	107	500	532	106	0	69-122/12
75-71-8	Dichlorodifluoromethane	ND		500	405	81	500	415	83	2	24-161/20
75-34-3	1,1-Dichloroethane	ND		500	502	100	500	494	99	2	60-129/13
107-06-2	1,2-Dichloroethane	ND		500	619	124	500	616	123	0	72-133/12
75-35-4	1,1-Dichloroethene	ND		500	436	87	500	440	88	1	40-137/17
156-59-2	cis-1,2-Dichloroethene	1610		500	1830	44* [a]	500	1810	40* [a]	1	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		500	450	90	500	449	90	0	53-128/15
78-87-5	1,2-Dichloropropane	ND		500	518	104	500	515	103	1	69-127/12
142-28-9	1,3-Dichloropropane	ND		500	488	98	500	490	98	0	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	523	105	500	526	105	1	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3538-8MS	2B134435.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8MSD	2B134436.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8	2B134433.D	10	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	JC3538-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		500	534	107	500	534	107	0	68-130/14
123-91-1	1,4-Dioxane	ND		12500	12400	99	12500	13200	106	6	56-146/21
60-29-7	Ethyl Ether	ND		500	458	92	500	457	91	0	69-130/13
100-41-4	Ethylbenzene	ND		500	516	103	500	512	102	1	38-139/12
76-13-1	Freon 113	ND		500	511	102	500	517	103	1	34-154/18
67-72-1	Hexachloroethane	ND		500	626	125	500	611	122	2	49-143/18
591-78-6	2-Hexanone	ND		500	522	104	500	516	103	1	55-148/15
123-51-3	IsoAmyl Alcohol	ND		10000	17400	174* [b]	10000	18000	180* [b]	3	55-157/17
78-83-1	Isobutyl alcohol	ND		5000	4270	85	5000	4450	89	4	49-139/16
98-82-8	Isopropylbenzene	ND		500	555	111	500	555	111	0	54-137/15
99-87-6	p-Isopropyltoluene	ND		500	570	114	500	572	114	0	57-135/16
79-20-9	Methyl Acetate	ND		500	444	89	500	441	88	1	60-137/13
108-87-2	Methylcyclohexane	ND		500	525	105	500	525	105	0	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		1000	992	99	1000	997	100	1	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		500	555	111	500	561	112	1	68-139/12
75-09-2	Methylene chloride	ND		500	458	92	500	447	89	2	63-128/13
91-20-3	Naphthalene	ND		500	485	97	500	504	101	4	57-149/13
103-65-1	n-Propylbenzene	ND		500	579	116	500	577	115	0	49-136/14
100-42-5	Styrene	ND		500	517	103	500	517	103	0	61-134/13
75-65-0	Tert Butyl Alcohol	ND		2500	2130	85	2500	2100	84	1	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		500	544	109	500	544	109	0	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		500	500	100	500	503	101	1	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	518	104	500	515	103	1	67-126/13
127-18-4	Tetrachloroethene	23.3		500	560	107	500	556	107	1	43-145/15
109-99-9	Tetrahydrofuran	ND		500	435	87	500	438	88	1	49-135/14
108-88-3	Toluene	ND		500	493	99	500	489	98	1	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		500	513	103	500	519	104	1	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		500	541	108	500	551	110	2	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		500	540	108	500	546	109	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		500	522	104	500	521	104	0	71-127/12
79-01-6	Trichloroethene	37.8		500	569	106	500	566	106	1	55-136/14
75-69-4	Trichlorofluoromethane	ND		500	542	108	500	552	110	2	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		500	599	120	500	599	120	0	40-143/13
75-01-4	Vinyl chloride	514		500	829	63	500	865	70	4	34-147/17
	m,p-Xylene	ND		1000	1040	104	1000	1020	102	2	42-139/13
95-47-6	o-Xylene	ND		500	509	102	500	514	103	1	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3538-8MS	2B134435.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8MSD	2B134436.D	10	09/14/15	BK	n/a	n/a	V2B5990
JC3538-8	2B134433.D	10	09/14/15	BK	n/a	n/a	V2B5990

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

JC3254-10R, JC3254-13R

CAS No.	Compound	JC3538-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		1500	1550	103	1500	1540	103	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3538-8	Limits
1868-53-7	Dibromofluoromethane	100%	98%	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	109%	111%	73-122%
2037-26-5	Toluene-D8	105%	106%	104%	84-119%
460-00-4	4-Bromofluorobenzene	106%	106%	104%	78-117%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-20RMS	2B134486R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20RMSD	2B134487R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20R	2B134480R.D	25	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	JC3254-20R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		125000	110000	88	125000	104000	83	6	47-155/17
67-64-1	Acetone	ND		1250	1250	100	1250	1240	99	1	33-158/19
71-43-2	Benzene	ND		1250	1320	106	1250	1290	103	2	43-138/12
74-97-5	Bromochloromethane	ND		1250	1250	100	1250	1220	98	2	75-127/12
75-27-4	Bromodichloromethane	ND		1250	1440	115	1250	1440	115	0	72-128/13
75-25-2	Bromoform	ND		1250	1450	116	1250	1440	115	1	70-131/12
74-83-9	Bromomethane	ND		1250	1160	93	1250	1150	92	1	47-142/16
78-93-3	2-Butanone (MEK)	ND		1250	1230	98	1250	1210	97	2	56-146/12
71-36-3	n-Butyl Alcohol	ND		62500	72000	115	62500	70000	112	3	50-154/17
104-51-8	n-Butylbenzene	ND		1250	1400	112	1250	1420	114	1	50-142/15
135-98-8	sec-Butylbenzene	ND		1250	1390	111	1250	1390	111	0	52-138/16
98-06-6	tert-Butylbenzene	ND		1250	1430	114	1250	1450	116	1	55-137/16
75-15-0	Carbon disulfide	ND		1250	1230	98	1250	1190	95	3	38-136/17
56-23-5	Carbon tetrachloride	ND		1250	1630	130	1250	1610	129	1	45-149/17
108-90-7	Chlorobenzene	ND		1250	1310	105	1250	1310	105	0	70-124/12
75-45-6	Chlorodifluoromethane	ND		1250	1250	100	1250	1260	101	1	26-147/19
75-00-3	Chloroethane	ND		1250	1290	103	1250	1270	102	2	47-139/15
67-66-3	Chloroform	ND		1250	1300	104	1250	1280	102	2	66-126/13
74-87-3	Chloromethane	ND		1250	1030	82	1250	974	78	6	41-140/15
110-82-7	Cyclohexane	ND		1250	1210	97	1250	1200	96	1	30-148/17
108-20-3	Di-Isopropyl ether	ND		1250	1190	95	1250	1160	93	3	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1340	107	1250	1290	103	4	64-136/14
124-48-1	Dibromochloromethane	ND		1250	1390	111	1250	1380	110	1	75-126/12
106-93-4	1,2-Dibromoethane	ND		1250	1250	100	1250	1260	101	1	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		1250	1400	112	1250	1400	112	0	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		1250	1340	107	1250	1340	107	0	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		1250	1340	107	1250	1340	107	0	69-122/12
75-71-8	Dichlorodifluoromethane	ND		1250	1010	81	1250	1040	83	3	24-161/20
75-34-3	1,1-Dichloroethane	ND		1250	1260	101	1250	1250	100	1	60-129/13
107-06-2	1,2-Dichloroethane	ND		1250	1600	128	1250	1590	127	1	72-133/12
75-35-4	1,1-Dichloroethene	ND		1250	1200	96	1250	1160	93	3	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		1250	1190	95	1250	1150	92	3	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		1250	1160	93	1250	1140	91	2	53-128/15
78-87-5	1,2-Dichloropropane	ND		1250	1260	101	1250	1250	100	1	69-127/12
142-28-9	1,3-Dichloropropane	ND		1250	1230	98	1250	1230	98	0	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1330	106	1250	1310	105	2	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-20RMS	2B134486R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20RMSD	2B134487R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20R	2B134480R.D	25	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	JC3254-20R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1350	108	1250	1340	107	1	68-130/14
123-91-1	1,4-Dioxane	ND		31300	32500	104	31300	31900	102	2	56-146/21
60-29-7	Ethyl Ether	ND		1250	1190	95	1250	1180	94	1	69-130/13
100-41-4	Ethylbenzene	2820		1250	3730	73	1250	3730	73	0	38-139/12
76-13-1	Freon 113	ND		1250	1520	122	1250	1520	122	0	34-154/18
67-72-1	Hexachloroethane	ND		1250	1570	126	1250	1590	127	1	49-143/18
591-78-6	2-Hexanone	ND		1250	1260	101	1250	1240	99	2	55-148/15
123-51-3	IsoAmyl Alcohol	ND		25000	42800	171* [a]	25000	42100	168* [a]	2	55-157/17
78-83-1	Isobutyl alcohol	ND		12500	11400	91	12500	11300	90	1	49-139/16
98-82-8	Isopropylbenzene	46.4		1250	1450	112	1250	1460	113	1	54-137/15
99-87-6	p-Isopropyltoluene	ND		1250	1440	115	1250	1450	116	1	57-135/16
79-20-9	Methyl Acetate	ND		1250	1120	90	1250	1120	90	0	60-137/13
108-87-2	Methylcyclohexane	ND		1250	1500	120	1250	1470	118	2	30-152/17
1634-04-4	Methyl Tert Butyl Ether	153		2500	2800	106	2500	2740	103	2	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	85.3	J	1250	1480	112	1250	1460	110	1	68-139/12
75-09-2	Methylene chloride	ND		1250	1190	95	1250	1150	92	3	63-128/13
91-20-3	Naphthalene	ND		1250	1250	100	1250	1270	102	2	57-149/13
103-65-1	n-Propylbenzene	10.8	J	1250	1460	116	1250	1470	117	1	49-136/14
100-42-5	Styrene	ND		1250	1300	104	1250	1310	105	1	61-134/13
75-65-0	Tert Butyl Alcohol	ND		6250	5750	92	6250	5800	93	1	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		1250	1420	114	1250	1410	113	1	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		1250	1350	108	1250	1330	106	1	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1280	102	1250	1260	101	2	67-126/13
127-18-4	Tetrachloroethene	ND		1250	1370	110	1250	1390	111	1	43-145/15
109-99-9	Tetrahydrofuran	ND		1250	1070	86	1250	1270	102	17* [b]	49-135/14
108-88-3	Toluene	49.1		1250	1290	99	1250	1270	98	2	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1320	106	1250	1330	106	1	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1380	110	1250	1390	111	1	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		1250	1450	116	1250	1430	114	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		1250	1280	102	1250	1260	101	2	71-127/12
79-01-6	Trichloroethene	ND		1250	1370	110	1250	1360	109	1	55-136/14
75-69-4	Trichlorofluoromethane	ND		1250	1420	114	1250	1400	112	1	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		1250	1530	122	1250	1520	122	1	40-143/13
75-01-4	Vinyl chloride	ND		1250	1100	88	1250	1110	89	1	34-147/17
	m,p-Xylene	8710		2500	10400	68	2500	10400	68	0	42-139/13
95-47-6	o-Xylene	779		1250	2050	102	1250	2050	102	0	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-20RMS	2B134486R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20RMSD	2B134487R.D	25	09/15/15	BK	n/a	n/a	V2B5992
JC3254-20R	2B134480R.D	25	09/15/15	BK	n/a	n/a	V2B5992

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

JC3254-11R, JC3254-20R, JC3254-28R

CAS No.	Compound	JC3254-20R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	9490		3750	12500	80	3750	12400	78	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3254-20R	Limits
1868-53-7	Dibromofluoromethane	100%	99%	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	111%	73-122%
2037-26-5	Toluene-D8	107%	105%	106%	84-119%
460-00-4	4-Bromofluorobenzene	106%	107%	105%	78-117%

(a) Outside in house control limits.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3669-14MS	2B134533.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14MSD	2B134534.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14	2B134522.D	50	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	JC3669-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		250000	194000	78	250000	203000	81	5	47-155/17
67-64-1	Acetone	ND		2500	2510	100	2500	2380	95	5	33-158/19
71-43-2	Benzene	8810		2500	9540	29* [a]	2500	9370	22* [a]	2	43-138/12
74-97-5	Bromochloromethane	ND		2500	2450	98	2500	2360	94	4	75-127/12
75-27-4	Bromodichloromethane	ND		2500	2900	116	2500	2870	115	1	72-128/13
75-25-2	Bromoform	ND		2500	2900	116	2500	2890	116	0	70-131/12
74-83-9	Bromomethane	ND		2500	2350	94	2500	2240	90	5	47-142/16
78-93-3	2-Butanone (MEK)	ND		2500	2430	97	2500	2270	91	7	56-146/12
71-36-3	n-Butyl Alcohol	ND		125000	133000	106	125000	134000	107	1	50-154/17
104-51-8	n-Butylbenzene	ND		2500	2750	110	2500	2700	108	2	50-142/15
135-98-8	sec-Butylbenzene	ND		2500	2710	108	2500	2690	108	1	52-138/16
98-06-6	tert-Butylbenzene	ND		2500	2840	114	2500	2840	114	0	55-137/16
75-15-0	Carbon disulfide	ND		2500	2330	93	2500	2220	89	5	38-136/17
56-23-5	Carbon tetrachloride	ND		2500	3270	131	2500	3240	130	1	45-149/17
108-90-7	Chlorobenzene	ND		2500	2600	104	2500	2530	101	3	70-124/12
75-45-6	Chlorodifluoromethane	ND		2500	2180	87	2500	2020	81	8	26-147/19
75-00-3	Chloroethane	ND		2500	2530	101	2500	2420	97	4	47-139/15
67-66-3	Chloroform	475		2500	2970	100	2500	2880	96	3	66-126/13
74-87-3	Chloromethane	ND		2500	2070	83	2500	1920	77	8	41-140/15
110-82-7	Cyclohexane	48.4	J	2500	2310	90	2500	2240	88	3	30-148/17
108-20-3	Di-Isopropyl ether	ND		2500	2220	89	2500	2120	85	5	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2760	110	2500	2650	106	4	64-136/14
124-48-1	Dibromochloromethane	ND		2500	2810	112	2500	2770	111	1	75-126/12
106-93-4	1,2-Dibromoethane	ND		2500	2500	100	2500	2460	98	2	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		2500	2780	111	2500	2760	110	1	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		2500	2650	106	2500	2630	105	1	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		2500	2630	105	2500	2650	106	1	69-122/12
75-71-8	Dichlorodifluoromethane	ND		2500	2370	95	2500	2250	90	5	24-161/20
75-34-3	1,1-Dichloroethane	ND		2500	2440	98	2500	2350	94	4	60-129/13
107-06-2	1,2-Dichloroethane	ND		2500	3390	136* [b]	2500	3360	134* [b]	1	72-133/12
75-35-4	1,1-Dichloroethene	ND		2500	2310	92	2500	2200	88	5	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		2500	2280	91	2500	2190	88	4	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		2500	2200	88	2500	2170	87	1	53-128/15
78-87-5	1,2-Dichloropropane	ND		2500	2400	96	2500	2370	95	1	69-127/12
142-28-9	1,3-Dichloropropane	ND		2500	2390	96	2500	2350	94	2	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		2500	2570	103	2500	2520	101	2	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3669-14MS	2B134533.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14MSD	2B134534.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14	2B134522.D	50	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	JC3669-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		2500	2650	106	2500	2670	107	1	68-130/14
123-91-1	1,4-Dioxane	ND		62500	58300	93	62500	61900	99	6	56-146/21
60-29-7	Ethyl Ether	ND		2500	2420	97	2500	2270	91	6	69-130/13
100-41-4	Ethylbenzene	ND		2500	2590	104	2500	2520	101	3	38-139/12
76-13-1	Freon 113	ND		2500	2890	116	2500	2790	112	4	34-154/18
67-72-1	Hexachloroethane	ND		2500	3120	125	2500	3050	122	2	49-143/18
591-78-6	2-Hexanone	ND		2500	2480	99	2500	2410	96	3	55-148/15
123-51-3	IsoAmyl Alcohol	ND		50000	82000	164* c	50000	83200	166* c	1	55-157/17
78-83-1	Isobutyl alcohol	ND		25000	21900	88	25000	22300	89	2	49-139/16
98-82-8	Isopropylbenzene	ND		2500	2770	111	2500	2750	110	1	54-137/15
99-87-6	p-Isopropyltoluene	ND		2500	2830	113	2500	2850	114	1	57-135/16
79-20-9	Methyl Acetate	ND		2500	2160	86	2500	2030	81	6	60-137/13
108-87-2	Methylcyclohexane	44.5	J	2500	2730	107	2500	2670	105	2	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		5000	5220	105	5000	5030	101	4	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2500	2580	103	2500	2550	102	1	68-139/12
75-09-2	Methylene chloride	189		2500	2460	91	2500	2330	86	5	63-128/13
91-20-3	Naphthalene	ND		2500	2590	104	2500	2540	102	2	57-149/13
103-65-1	n-Propylbenzene	ND		2500	2880	115	2500	2860	114	1	49-136/14
100-42-5	Styrene	ND		2500	2510	100	2500	2470	99	2	61-134/13
75-65-0	Tert Butyl Alcohol	ND		12500	10500	84	12500	10800	86	3	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		2500	2720	109	2500	2690	108	1	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		2500	2530	101	2500	2450	98	3	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2530	101	2500	2460	98	3	67-126/13
127-18-4	Tetrachloroethene	ND		2500	2750	110	2500	2660	106	3	43-145/15
109-99-9	Tetrahydrofuran	ND		2500	2030	81	2500	2360	94	15* b	49-135/14
108-88-3	Toluene	37.8	J	2500	2420	95	2500	2390	94	1	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		2500	2680	107	2500	2650	106	1	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2770	111	2500	2780	111	0	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		2500	2850	114	2500	2780	111	2	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		2500	2510	100	2500	2510	100	0	71-127/12
79-01-6	Trichloroethene	ND		2500	2680	107	2500	2650	106	1	55-136/14
75-69-4	Trichlorofluoromethane	ND		2500	3010	120	2500	2890	116	4	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		2500	3070	123	2500	3030	121	1	40-143/13
75-01-4	Vinyl chloride	ND		2500	2290	92	2500	2160	86	6	34-147/17
	m,p-Xylene	ND		5000	5100	102	5000	4950	99	3	42-139/13
95-47-6	o-Xylene	ND		2500	2510	100	2500	2450	98	2	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3669-14MS	2B134533.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14MSD	2B134534.D	50	09/16/15	BK	n/a	n/a	V2B5994
JC3669-14	2B134522.D	50	09/16/15	BK	n/a	n/a	V2B5994

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

JC3254-12R, JC3254-14R, JC3254-15R

CAS No.	Compound	JC3669-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		7500	7610	101	7500	7400	99	3	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3669-14	Limits
1868-53-7	Dibromofluoromethane	96%	97%	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	112%	110%	113%	73-122%
2037-26-5	Toluene-D8	103%	104%	106%	84-119%
460-00-4	4-Bromofluorobenzene	106%	107%	104%	78-117%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to matrix interference.
(c) Outside control limits. No associated sample required/reported for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3795-7MS	2B134562.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7MSD	2B134563.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134558.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134559.D	100	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	JC3795-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		50000	43700	87	50000	44300	89	1	47-155/17
67-64-1	Acetone	ND		500	490	98	500	507	101	3	33-158/19
71-43-2	Benzene	4730 [b]		500	4420	-62* [a]	500	4450	-56* [a]	1	43-138/12
74-97-5	Bromochloromethane	ND		500	475	95	500	478	96	1	75-127/12
75-27-4	Bromodichloromethane	ND		500	574	115	500	586	117	2	72-128/13
75-25-2	Bromoform	ND		500	580	116	500	593	119	2	70-131/12
74-83-9	Bromomethane	ND		500	440	88	500	455	91	3	47-142/16
78-93-3	2-Butanone (MEK)	ND		500	468	94	500	468	94	0	56-146/12
71-36-3	n-Butyl Alcohol	ND		25000	26700	107	25000	28100	112	5	50-154/17
104-51-8	n-Butylbenzene	ND		500	551	110	500	568	114	3	50-142/15
135-98-8	sec-Butylbenzene	ND		500	535	107	500	554	111	3	52-138/16
98-06-6	tert-Butylbenzene	ND		500	548	110	500	573	115	4	55-137/16
75-15-0	Carbon disulfide	ND		500	329	66	500	331	66	1	38-136/17
56-23-5	Carbon tetrachloride	ND		500	600	120	500	606	121	1	45-149/17
108-90-7	Chlorobenzene	5.9	J	500	517	102	500	519	103	0	70-124/12
75-45-6	Chlorodifluoromethane	ND		500	406	81	500	426	85	5	26-147/19
75-00-3	Chloroethane	ND		500	520	104	500	532	106	2	47-139/15
67-66-3	Chloroform	ND		500	503	101	500	510	102	1	66-126/13
74-87-3	Chloromethane	ND		500	422	84	500	431	86	2	41-140/15
110-82-7	Cyclohexane	10.6	J	500	405	79	500	406	79	0	30-148/17
108-20-3	Di-Isopropyl ether	ND		500	492	98	500	496	99	1	59-131/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	513	103	500	549	110	7	64-136/14
124-48-1	Dibromochloromethane	ND		500	558	112	500	556	111	0	75-126/12
106-93-4	1,2-Dibromoethane	ND		500	495	99	500	493	99	0	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		500	549	110	500	572	114	4	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		500	527	105	500	543	109	3	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		500	524	105	500	541	108	3	69-122/12
75-71-8	Dichlorodifluoromethane	ND		500	415	83	500	450	90	8	24-161/20
75-34-3	1,1-Dichloroethane	ND		500	476	95	500	472	94	1	60-129/13
107-06-2	1,2-Dichloroethane	ND		500	728	146* [c]	500	737	147* [c]	1	72-133/12
75-35-4	1,1-Dichloroethene	ND		500	341	68	500	346	69	1	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		500	436	87	500	434	87	0	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		500	398	80	500	399	80	0	53-128/15
78-87-5	1,2-Dichloropropane	ND		500	509	102	500	513	103	1	69-127/12
142-28-9	1,3-Dichloropropane	ND		500	494	99	500	491	98	1	73-123/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	506	101	500	522	104	3	67-129/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3795-7MS	2B134562.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7MSD	2B134563.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134558.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134559.D	100	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	JC3795-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		500	538	108	500	545	109	1	68-130/14
123-91-1	1,4-Dioxane	ND		12500	11800	94	12500	12200	98	3	56-146/21
60-29-7	Ethyl Ether	ND		500	441	88	500	446	89	1	69-130/13
100-41-4	Ethylbenzene	ND		500	518	104	500	512	102	1	38-139/12
76-13-1	Freon 113	ND		500	536	107	500	540	108	1	34-154/18
67-72-1	Hexachloroethane	ND		500	615	123	500	637	127	4	49-143/18
591-78-6	2-Hexanone	ND		500	511	102	500	523	105	2	55-148/15
123-51-3	IsoAmyl Alcohol	ND		10000	17000	170* c	10000	17400	174* c	2	55-157/17
78-83-1	Isobutyl alcohol	ND		5000	4240	85	5000	4280	86	1	49-139/16
98-82-8	Isopropylbenzene	ND		500	536	107	500	555	111	3	54-137/15
99-87-6	p-Isopropyltoluene	ND		500	554	111	500	573	115	3	57-135/16
79-20-9	Methyl Acetate	ND		500	443	89	500	439	88	1	60-137/13
108-87-2	Methylcyclohexane	8.8	J	500	533	105	500	540	106	1	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		1000	965	97	1000	980	98	2	64-132/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		500	551	110	500	558	112	1	68-139/12
75-09-2	Methylene chloride	ND		500	417	83	500	410	82	2	63-128/13
91-20-3	Naphthalene	ND		500	480	96	500	512	102	6	57-149/13
103-65-1	n-Propylbenzene	ND		500	561	112	500	583	117	4	49-136/14
100-42-5	Styrene	ND		500	511	102	500	509	102	0	61-134/13
75-65-0	Tert Butyl Alcohol	ND		2500	2190	88	2500	2250	90	3	67-138/14
994-05-8	tert-Amyl Methyl Ether	ND		500	525	105	500	538	108	2	67-132/12
637-92-3	tert-Butyl Ethyl Ether	ND		500	505	101	500	518	104	3	65-133/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	505	101	500	527	105	4	67-126/13
127-18-4	Tetrachloroethene	ND		500	530	106	500	538	108	1	43-145/15
109-99-9	Tetrahydrofuran	ND		500	446	89	500	531	106	17* d	49-135/14
108-88-3	Toluene	3.7	J	500	473	94	500	481	95	2	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		500	522	104	500	551	110	5	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		500	539	108	500	578	116	7	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		500	531	106	500	536	107	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		500	518	104	500	523	105	1	71-127/12
79-01-6	Trichloroethene	ND		500	520	104	500	531	106	2	55-136/14
75-69-4	Trichlorofluoromethane	ND		500	578	116	500	585	117	1	33-157/21
95-63-6	1,2,4-Trimethylbenzene	ND		500	589	118	500	610	122	4	40-143/13
75-01-4	Vinyl chloride	ND		500	444	89	500	464	93	4	34-147/17
	m,p-Xylene	6.3	J	1000	1020	101	1000	1020	101	0	42-139/13
95-47-6	o-Xylene	2.1	J	500	512	102	500	512	102	0	56-134/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3795-7MS	2B134562.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7MSD	2B134563.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134558.D	10	09/17/15	BK	n/a	n/a	V2B5996
JC3795-7	2B134559.D	100	09/17/15	BK	n/a	n/a	V2B5996

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

JC3254-9R

CAS No.	Compound	JC3795-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	8.4	J	1500	1540	102	1500	1530	101	1	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JC3795-7	JC3795-7	Limits
1868-53-7	Dibromofluoromethane	101%	100%	105%	106%	76-120%
17060-07-0	1,2-Dichloroethane-D4	116%	114%	119%	120%	73-122%
2037-26-5	Toluene-D8	105%	105%	106%	104%	84-119%
460-00-4	4-Bromofluorobenzene	104%	106%	103%	104%	78-117%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside in house control limits.
(d) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-7DUP	2D147897.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-7	2D147890.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
64-17-5	Ethanol	ND		ND		nc	30
67-64-1	Acetone	ND		ND		nc	30
71-43-2	Benzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
71-36-3	n-Butyl Alcohol	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	10
75-15-0	Carbon disulfide	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-45-6	Chlorodifluoromethane	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	30
108-20-3	Di-Isopropyl ether	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-7DUP	2D147897.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-7	2D147890.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
123-91-1	1,4-Dioxane	ND		ND		nc	30
60-29-7	Ethyl Ether	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
76-13-1	Freon 113	ND		ND		nc	30
67-72-1	Hexachloroethane	ND		ND		nc	30
591-78-6	2-Hexanone	ND		ND		nc	30
123-51-3	IsoAmyl Alcohol	ND		ND		nc	30
78-83-1	Isobutyl alcohol	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
79-20-9	Methyl Acetate	ND		ND		nc	30
108-87-2	Methylcyclohexane	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
75-65-0	Tert Butyl Alcohol	ND		ND		nc	30
994-05-8	tert-Amyl Methyl Ether	ND		ND		nc	30
637-92-3	tert-Butyl Ethyl Ether	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
109-99-9	Tetrahydrofuran	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC3254-7DUP	2D147897.D	1	09/09/15	BK	n/a	n/a	V2D6208
JC3254-7	2D147890.D	1	09/09/15	BK	n/a	n/a	V2D6208

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

JC3254-1R, JC3254-6R, JC3254-7R, JC3254-8R

CAS No.	Compound	JC3254-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
1330-20-7	Xylene (total)	ND		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	JC3254-7	Limits
1868-53-7	Dibromofluoromethane	107%	109%	76-120%
17060-07-0	1,2-Dichloroethane-D4	107%	108%	73-122%
2037-26-5	Toluene-D8	112%	112%	84-119%
460-00-4	4-Bromofluorobenzene	114%	111%	78-117%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5926-BFB
Lab File ID: 2B132807.D
Instrument ID: GCMS2B
Injection Date: 07/24/15
Injection Time: 10:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19815	16.4		Pass
75	30.0 - 60.0% of mass 95	54704	45.2		Pass
95	Base peak, 100% relative abundance	120965	100.0		Pass
96	5.0 - 9.0% of mass 95	8034	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	133496	110.4		Pass
175	5.0 - 9.0% of mass 174	10135	8.38	(7.59) [a]	Pass
176	95.0 - 101.0% of mass 174	128448	106.2	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	8314	6.87	(6.47) [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
V2B5926-IC5926	2B132808.D	07/24/15	10:44	00:28	Initial cal 0.2
V2B5926-IC5926	2B132809.D	07/24/15	11:12	00:56	Initial cal 0.5
V2B5926-IC5926	2B132810.D	07/24/15	11:41	01:25	Initial cal 1
V2B5926-IC5926	2B132811.D	07/24/15	12:09	01:53	Initial cal 2
V2B5926-IC5926	2B132812.D	07/24/15	12:37	02:21	Initial cal 5
V2B5926-IC5926	2B132813.D	07/24/15	13:05	02:49	Initial cal 10
V2B5926-IC5926	2B132814.D	07/24/15	13:33	03:17	Initial cal 20
V2B5926-ICC5926	2B132815.D	07/24/15	14:01	03:45	Initial cal 50
V2B5926-IC5926	2B132816.D	07/24/15	14:29	04:13	Initial cal 100
V2B5926-IC5926	2B132817.D	07/24/15	14:57	04:41	Initial cal 200
V2B5926-ICV5926	2B132820.D	07/24/15	16:23	06:07	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5985-BFB
Lab File ID: 2B134297.D
Instrument ID: GCMS2B
Injection Date: 09/10/15
Injection Time: 09:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19711	15.0		Pass
75	30.0 - 60.0% of mass 95	57104	43.6		Pass
95	Base peak, 100% relative abundance	131066	100.0		Pass
96	5.0 - 9.0% of mass 95	8384	6.40		Pass
173	Less than 2.0% of mass 174	1133	0.86	(0.76) [a]	Pass
174	50.0 - 120.0% of mass 95	148821	113.5		Pass
175	5.0 - 9.0% of mass 174	11363	8.67	(7.64) [a]	Pass
176	95.0 - 101.0% of mass 174	145941	111.3	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	9225	7.04	(6.32) [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
V2B5985-CC5926	2B134298.D	09/10/15	09:41	00:38	Continuing cal 20
V2B5985-MB	2B134300.D	09/10/15	10:40	01:37	Method Blank
V2B5985-BS	2B134301.D	09/10/15	11:08	02:05	Blank Spike
ZZZZZZ	2B134303.D	09/10/15	12:06	03:03	(unrelated sample)
ZZZZZZ	2B134304.D	09/10/15	12:34	03:31	(unrelated sample)
ZZZZZZ	2B134305.D	09/10/15	13:03	04:00	(unrelated sample)
JC3137-3	2B134306.D	09/10/15	13:31	04:28	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134308.D	09/10/15	14:31	05:28	(unrelated sample)
ZZZZZZ	2B134309.D	09/10/15	15:00	05:57	(unrelated sample)
ZZZZZZ	2B134310.D	09/10/15	15:28	06:25	(unrelated sample)
ZZZZZZ	2B134311.D	09/10/15	15:57	06:54	(unrelated sample)
JC3137-3MS	2B134312.D	09/10/15	16:25	07:22	Matrix Spike
JC3137-3MSD	2B134313.D	09/10/15	16:53	07:50	Matrix Spike Duplicate
ZZZZZZ	2B134315.D	09/10/15	17:50	08:47	(unrelated sample)
ZZZZZZ	2B134316.D	09/10/15	18:18	09:15	(unrelated sample)
ZZZZZZ	2B134317.D	09/10/15	18:46	09:43	(unrelated sample)
JC3254-2R	2B134317R.D	09/10/15	18:46	09:43	MW-17
JC3254-4R	2B134319R.D	09/10/15	19:43	10:40	MW-14
ZZZZZZ	2B134319.D	09/10/15	19:43	10:40	(unrelated sample)
ZZZZZZ	2B134320.D	09/10/15	20:12	11:09	(unrelated sample)
JC3254-5R	2B134320R.D	09/10/15	20:12	11:09	QC TB 030915

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5988-BFB
Lab File ID: 2B134372.D
Instrument ID: GCMS2B
Injection Date: 09/11/15
Injection Time: 21:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	21586	19.5		Pass
75	30.0 - 60.0% of mass 95	55122	49.8		Pass
95	Base peak, 100% relative abundance	110653	100.0		Pass
96	5.0 - 9.0% of mass 95	7322	6.62		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	117080	105.8		Pass
175	5.0 - 9.0% of mass 174	9864	8.91	(8.43) [a]	Pass
176	95.0 - 101.0% of mass 174	115261	104.2	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	7550	6.82	(6.55) [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
V2B5988-CC5926	2B134373.D	09/11/15	22:27	00:28	Continuing cal 50
V2B5988-MB	2B134375.D	09/11/15	23:24	01:25	Method Blank
V2B5988-BS	2B134376.D	09/11/15	23:53	01:54	Blank Spike
JC3254-25MS	2B134377.D	09/12/15	00:21	02:22	Matrix Spike
JC3254-25RMS	2B134377R.D	09/12/15	00:21	02:22	Matrix Spike
JC3254-25RMSD	2B134378R.D	09/12/15	00:50	02:51	Matrix Spike Duplicate
JC3254-25MSD	2B134378.D	09/12/15	00:50	02:51	Matrix Spike Duplicate
JC3254-25	2B134380.D	09/12/15	01:47	03:48	(used for QC only; not part of job JC3254R)
JC3254-25R	2B134380R.D	09/12/15	01:47	03:48	S-31R(2)
JC3254-25R	2B134381R.D	09/12/15	02:15	04:16	S-31R(2)
JC3254-25	2B134381.D	09/12/15	02:15	04:16	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134382.D	09/12/15	02:43	04:44	(unrelated sample)
JC3254-26R	2B134382R.D	09/12/15	02:43	04:44	S-29R
ZZZZZZ	2B134383.D	09/12/15	03:11	05:12	(unrelated sample)
JC3254-27R	2B134383R.D	09/12/15	03:11	05:12	E-1R
ZZZZZZ	2B134386.D	09/12/15	04:37	06:38	(unrelated sample)
JC3254-29R	2B134386R.D	09/12/15	04:37	06:38	S-34
ZZZZZZ	2B134387.D	09/12/15	05:06	07:07	(unrelated sample)
JC3254-30R	2B134387R.D	09/12/15	05:06	07:07	EB090915
ZZZZZZ	2B134388.D	09/12/15	05:35	07:36	(unrelated sample)
JC3254-31R	2B134388R.D	09/12/15	05:35	07:36	TB090915
ZZZZZZ	2B134390.D	09/12/15	06:32	08:33	(unrelated sample)
JC3254-21R	2B134390R.D	09/12/15	06:32	08:33	A-2R(2)
JC3254-22R	2B134391R.D	09/12/15	07:00	09:01	VP-1

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5988-BFB
Lab File ID: 2B134372.D
Instrument ID: GCMS2B
Injection Date: 09/11/15
Injection Time: 21:59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2B134391.D	09/12/15	07:00	09:01	(unrelated sample)
JC3254-23R	2B134392R.D	09/12/15	07:29	09:30	VP-2
ZZZZZZ	2B134392.D	09/12/15	07:29	09:30	(unrelated sample)
JC3254-24R	2B134393R.D	09/12/15	07:57	09:58	D-1R
ZZZZZZ	2B134393.D	09/12/15	07:57	09:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5989-BFB
Lab File ID: 2B134394.D
Instrument ID: GCMS2B
Injection Date: 09/12/15
Injection Time: 08:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	21402	20.1		Pass
75	30.0 - 60.0% of mass 95	53304	50.0		Pass
95	Base peak, 100% relative abundance	106557	100.0		Pass
96	5.0 - 9.0% of mass 95	7047	6.61		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	113349	106.4		Pass
175	5.0 - 9.0% of mass 174	9377	8.80	(8.27) [a]	Pass
176	95.0 - 101.0% of mass 174	111106	104.3	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	7656	7.18	(6.89) [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
V2B5989-CC5926	2B134395.D	09/12/15	09:17	00:28	Continuing cal 20
V2B5989-MB	2B134397.D	09/12/15	10:36	01:47	Method Blank
V2B5989-BS	2B134398.D	09/12/15	11:11	02:22	Blank Spike
JC3254-16R	2B134400R.D	09/12/15	12:10	03:21	MW-16
JC3254-16	2B134400.D	09/12/15	12:10	03:21	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134401.D	09/12/15	12:38	03:49	(unrelated sample)
JC3254-17R	2B134401R.D	09/12/15	12:38	03:49	MW-12
ZZZZZZ	2B134402.D	09/12/15	13:07	04:18	(unrelated sample)
JC3254-18R	2B134402R.D	09/12/15	13:07	04:18	MW-12D
ZZZZZZ	2B134403.D	09/12/15	13:35	04:46	(unrelated sample)
JC3254-19R	2B134403R.D	09/12/15	13:35	04:46	QC TB 090915
ZZZZZZ	2B134407.D	09/12/15	15:46	06:57	(unrelated sample)
JC3254-3R	2B134408R.D	09/12/15	16:14	07:25	MW-5
ZZZZZZ	2B134408.D	09/12/15	16:14	07:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5990-BFB
Lab File ID: 2B134420.D
Instrument ID: GCMS2B
Injection Date: 09/14/15
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20341	19.9		Pass
75	30.0 - 60.0% of mass 95	53170	52.0		Pass
95	Base peak, 100% relative abundance	102250	100.0		Pass
96	5.0 - 9.0% of mass 95	6892	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	110485	108.1		Pass
175	5.0 - 9.0% of mass 174	9241	9.04	(8.36) [a]	Pass
176	95.0 - 101.0% of mass 174	107853	105.5	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7362	7.20	(6.83) [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
V2B5990-CC5926	2B134421.D	09/14/15	09:27	00:32	Continuing cal 20
V2B5989-MB2	2B134423.D	09/14/15	10:35	01:40	Method Blank
JC3254-16MS	2B134424.D	09/14/15	11:35	02:40	Matrix Spike
JC3254-16RMS	2B134424R.D	09/14/15	11:35	02:40	Matrix Spike
JC3254-16RMSD	2B134425R.D	09/14/15	12:04	03:09	Matrix Spike Duplicate
JC3254-16MSD	2B134425.D	09/14/15	12:04	03:09	Matrix Spike Duplicate
V2B5990-MB	2B134427.D	09/14/15	13:03	04:08	Method Blank
V2B5990-BS	2B134428.D	09/14/15	13:32	04:37	Blank Spike
ZZZZZZ	2B134429.D	09/14/15	14:01	05:06	(unrelated sample)
ZZZZZZ	2B134430.D	09/14/15	14:30	05:35	(unrelated sample)
ZZZZZZ	2B134431.D	09/14/15	14:58	06:03	(unrelated sample)
ZZZZZZ	2B134432.D	09/14/15	15:27	06:32	(unrelated sample)
JC3538-8	2B134433.D	09/14/15	15:56	07:01	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134434.D	09/14/15	16:24	07:29	(unrelated sample)
JC3538-8MS	2B134435.D	09/14/15	16:53	07:58	Matrix Spike
JC3538-8MSD	2B134436.D	09/14/15	17:21	08:26	Matrix Spike Duplicate
JC3254-10R	2B134438R.D	09/14/15	18:18	09:23	S-33
ZZZZZZ	2B134438.D	09/14/15	18:18	09:23	(unrelated sample)
ZZZZZZ	2B134439.D	09/14/15	18:47	09:52	(unrelated sample)
JC3254-13R	2B134439R.D	09/14/15	18:47	09:52	MW-13
ZZZZZZ	2B134440.D	09/14/15	19:15	10:20	(unrelated sample)
ZZZZZZ	2B134442.D	09/14/15	20:13	11:18	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5992-BFB
Lab File ID: 2B134467.D
Instrument ID: GCMS2B
Injection Date: 09/15/15
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19197	19.0		Pass
75	30.0 - 60.0% of mass 95	51349	50.9		Pass
95	Base peak, 100% relative abundance	100941	100.0		Pass
96	5.0 - 9.0% of mass 95	6462	6.40		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	108818	107.8		Pass
175	5.0 - 9.0% of mass 174	8603	8.52	(7.91) [a]	Pass
176	95.0 - 101.0% of mass 174	106960	106.0	(98.3) [a]	Pass
177	5.0 - 9.0% of mass 176	7581	7.51	(7.09) [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
V2B5992-CC5926	2B134468.D	09/15/15	08:55	00:32	Continuing cal 20
V2B5992-MB	2B134470.D	09/15/15	09:56	01:33	Method Blank
V2B5992-BS	2B134471.D	09/15/15	10:25	02:02	Blank Spike
ZZZZZZ	2B134472.D	09/15/15	10:53	02:30	(unrelated sample)
ZZZZZZ	2B134473.D	09/15/15	11:22	02:59	(unrelated sample)
ZZZZZZ	2B134474.D	09/15/15	11:51	03:28	(unrelated sample)
ZZZZZZ	2B134475.D	09/15/15	12:19	03:56	(unrelated sample)
ZZZZZZ	2B134476.D	09/15/15	12:47	04:24	(unrelated sample)
JC3254-28R	2B134477R.D	09/15/15	13:15	04:52	G-1R(3)
ZZZZZZ	2B134477.D	09/15/15	13:15	04:52	(unrelated sample)
JC3254-11R	2B134478R.D	09/15/15	13:44	05:21	MW-18
ZZZZZZ	2B134478.D	09/15/15	13:44	05:21	(unrelated sample)
ZZZZZZ	2B134479.D	09/15/15	14:12	05:49	(unrelated sample)
JC3254-20	2B134480.D	09/15/15	14:47	06:24	(used for QC only; not part of job JC3254R)
JC3254-20R	2B134480R.D	09/15/15	14:47	06:24	A-IR(4)
ZZZZZZ	2B134482.D	09/15/15	15:52	07:29	(unrelated sample)
ZZZZZZ	2B134483.D	09/15/15	16:21	07:58	(unrelated sample)
JC3254-20MS	2B134486.D	09/15/15	17:49	09:26	Matrix Spike
JC3254-20RMS	2B134486R.D	09/15/15	17:49	09:26	Matrix Spike
JC3254-20MSD	2B134487.D	09/15/15	18:17	09:54	Matrix Spike Duplicate
JC3254-20RMSD	2B134487R.D	09/15/15	18:17	09:54	Matrix Spike Duplicate
ZZZZZZ	2B134489.D	09/15/15	19:14	10:51	(unrelated sample)
ZZZZZZ	2B134490.D	09/15/15	19:43	11:20	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5994-BFB
Lab File ID: 2B134516.D
Instrument ID: GCMS2B
Injection Date: 09/16/15
Injection Time: 08:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16187	18.8		Pass
75	30.0 - 60.0% of mass 95	44394	51.6		Pass
95	Base peak, 100% relative abundance	86114	100.0		Pass
96	5.0 - 9.0% of mass 95	5510	6.40		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	100362	116.5		Pass
175	5.0 - 9.0% of mass 174	7909	9.18	(7.88) [a]	Pass
176	95.0 - 101.0% of mass 174	98344	114.2	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	6218	7.22	(6.32) [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
V2B5994-CC5926	2B134517.D	09/16/15	09:02	00:37	Continuing cal 20
V2B5994-MB	2B134519.D	09/16/15	10:12	01:47	Method Blank
V2B5994-BS	2B134520.D	09/16/15	10:42	02:17	Blank Spike
JC3669-14	2B134522.D	09/16/15	11:39	03:14	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134523.D	09/16/15	12:08	03:43	(unrelated sample)
ZZZZZZ	2B134524.D	09/16/15	12:36	04:11	(unrelated sample)
ZZZZZZ	2B134525.D	09/16/15	13:05	04:40	(unrelated sample)
ZZZZZZ	2B134526.D	09/16/15	13:33	05:08	(unrelated sample)
ZZZZZZ	2B134527.D	09/16/15	14:02	05:37	(unrelated sample)
ZZZZZZ	2B134528.D	09/16/15	14:31	06:06	(unrelated sample)
ZZZZZZ	2B134529.D	09/16/15	14:59	06:34	(unrelated sample)
ZZZZZZ	2B134530.D	09/16/15	15:29	07:04	(unrelated sample)
ZZZZZZ	2B134531.D	09/16/15	15:57	07:32	(unrelated sample)
ZZZZZZ	2B134532.D	09/16/15	16:26	08:01	(unrelated sample)
JC3669-14MS	2B134533.D	09/16/15	17:03	08:38	Matrix Spike
JC3669-14MSD	2B134534.D	09/16/15	17:32	09:07	Matrix Spike Duplicate
ZZZZZZ	2B134536.D	09/16/15	18:29	10:04	(unrelated sample)
JC3254-14R	2B134536R.D	09/16/15	18:29	10:04	MW-13D
ZZZZZZ	2B134537.D	09/16/15	18:57	10:32	(unrelated sample)
JC3254-15R	2B134537R.D	09/16/15	18:57	10:32	MW-7
ZZZZZZ	2B134538.D	09/16/15	19:26	11:01	(unrelated sample)
JC3254-12R	2B134538R.D	09/16/15	19:26	11:01	MW-3
ZZZZZZ	2B134539.D	09/16/15	19:54	11:29	(unrelated sample)
ZZZZZZ	2B134540.D	09/16/15	20:23	11:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2B5996-BFB
Lab File ID: 2B134549.D
Instrument ID: GCMS2B
Injection Date: 09/17/15
Injection Time: 10:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20290	20.4		Pass
75	30.0 - 60.0% of mass 95	52298	52.6		Pass
95	Base peak, 100% relative abundance	99490	100.0		Pass
96	5.0 - 9.0% of mass 95	6570	6.60		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	111101	111.7		Pass
175	5.0 - 9.0% of mass 174	8894	8.94	(8.01) [a]	Pass
176	95.0 - 101.0% of mass 174	106986	107.5	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	7504	7.54	(7.01) [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
V2B5996-CC5926	2B134550.D	09/17/15	10:37	00:29	Continuing cal 20
V2B5996-MB	2B134552.D	09/17/15	11:34	01:26	Method Blank
V2B5996-BS	2B134553.D	09/17/15	12:03	01:55	Blank Spike
ZZZZZZ	2B134555.D	09/17/15	13:00	02:52	(unrelated sample)
ZZZZZZ	2B134556.D	09/17/15	13:28	03:20	(unrelated sample)
ZZZZZZ	2B134557.D	09/17/15	13:57	03:49	(unrelated sample)
JC3795-7	2B134558.D	09/17/15	14:27	04:19	(used for QC only; not part of job JC3254R)
JC3795-7	2B134559.D	09/17/15	15:02	04:54	(used for QC only; not part of job JC3254R)
ZZZZZZ	2B134560.D	09/17/15	15:31	05:23	(unrelated sample)
JC3254-9R	2B134560R.D	09/17/15	15:31	05:23	S-32
ZZZZZZ	2B134561.D	09/17/15	15:59	05:51	(unrelated sample)
JC3254-9R	2B134561R.D	09/17/15	15:59	05:51	S-32
JC3795-7MS	2B134562.D	09/17/15	16:28	06:20	Matrix Spike
JC3795-7MSD	2B134563.D	09/17/15	16:56	06:48	Matrix Spike Duplicate
ZZZZZZ	2B134564.D	09/17/15	17:25	07:17	(unrelated sample)
ZZZZZZ	2B134566.D	09/17/15	18:22	08:14	(unrelated sample)
ZZZZZZ	2B134568.D	09/17/15	19:19	09:11	(unrelated sample)
ZZZZZZ	2B134569.D	09/17/15	19:48	09:40	(unrelated sample)
ZZZZZZ	2B134570.D	09/17/15	20:17	10:09	(unrelated sample)
ZZZZZZ	2B134571.D	09/17/15	20:45	10:37	(unrelated sample)
ZZZZZZ	2B134572.D	09/17/15	21:14	11:06	(unrelated sample)
ZZZZZZ	2B134573.D	09/17/15	21:43	11:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2D6180-BFB
Lab File ID: 2D147242.D
Instrument ID: GCMS2D
Injection Date: 08/14/15
Injection Time: 16:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17363	17.3		Pass
75	30.0 - 60.0% of mass 95	46021	45.8		Pass
95	Base peak, 100% relative abundance	100378	100.0		Pass
96	5.0 - 9.0% of mass 95	6482	6.46		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	103733	103.3		Pass
175	5.0 - 9.0% of mass 174	8146	8.12	(7.85) [a]	Pass
176	95.0 - 101.0% of mass 174	100842	100.5	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	6572	6.55	(6.52) [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
V2D6180-IC6180	2D147243.D	08/14/15	16:37	00:31	Initial cal 0.2
V2D6180-IC6180	2D147244.D	08/14/15	17:07	01:01	Initial cal 0.5
V2D6180-IC6180	2D147245.D	08/14/15	17:37	01:31	Initial cal 1
V2D6180-IC6180	2D147246.D	08/14/15	18:08	02:02	Initial cal 2
V2D6180-IC6180	2D147247.D	08/14/15	18:38	02:32	Initial cal 5
V2D6180-IC6180	2D147248.D	08/14/15	19:09	03:03	Initial cal 10
V2D6180-IC6180	2D147249.D	08/14/15	19:39	03:33	Initial cal 20
V2D6180-ICC6180	2D147250.D	08/14/15	20:09	04:03	Initial cal 50
V2D6180-IC6180	2D147251.D	08/14/15	20:39	04:33	Initial cal 100
V2D6180-IC6180	2D147252.D	08/14/15	21:10	05:04	Initial cal 200
V2D6180-ICV6180	2D147255.D	08/14/15	22:40	06:34	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2D6208-BFB
Lab File ID: 2D147881.D
Instrument ID: GCMS2D
Injection Date: 09/09/15
Injection Time: 08:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	22048	17.1		Pass
75	30.0 - 60.0% of mass 95	60917	47.2		Pass
95	Base peak, 100% relative abundance	129173	100.0		Pass
96	5.0 - 9.0% of mass 95	8752	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	127768	98.9		Pass
175	5.0 - 9.0% of mass 174	10337	8.00	(8.09) [a]	Pass
176	95.0 - 101.0% of mass 174	123736	95.8	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8250	6.39	(6.67) [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
V2D6208-CC6180	2D147883.D	09/09/15	09:53	01:42	Continuing cal 20
V2D6208-MB	2D147885.D	09/09/15	10:54	02:43	Method Blank
V2D6208-BS	2D147886.D	09/09/15	11:24	03:13	Blank Spike
ZZZZZZ	2D147888.D	09/09/15	12:24	04:13	(unrelated sample)
JC3254-6R	2D147889R.D	09/09/15	12:55	04:44	S-35
JC3254-6	2D147889.D	09/09/15	12:55	04:44	(used for QC only; not part of job JC3254R)
JC3254-7	2D147890.D	09/09/15	13:25	05:14	(used for QC only; not part of job JC3254R)
JC3254-7R	2D147890R.D	09/09/15	13:25	05:14	S-35D
JC3254-8R	2D147891R.D	09/09/15	13:56	05:45	S-36
ZZZZZZ	2D147891.D	09/09/15	13:56	05:45	(unrelated sample)
ZZZZZZ	2D147892.D	09/09/15	14:26	06:15	(unrelated sample)
ZZZZZZ	2D147893.D	09/09/15	14:57	06:46	(unrelated sample)
ZZZZZZ	2D147894.D	09/09/15	15:27	07:16	(unrelated sample)
JC3254-6MS	2D147895.D	09/09/15	15:58	07:47	Matrix Spike
JC3254-7DUP	2D147897.D	09/09/15	16:59	08:48	Duplicate
ZZZZZZ	2D147898.D	09/09/15	17:29	09:18	(unrelated sample)
ZZZZZZ	2D147899.D	09/09/15	18:00	09:49	(unrelated sample)
ZZZZZZ	2D147900.D	09/09/15	18:30	10:19	(unrelated sample)
ZZZZZZ	2D147901.D	09/09/15	19:01	10:50	(unrelated sample)
ZZZZZZ	2D147902.D	09/09/15	19:31	11:20	(unrelated sample)
ZZZZZZ	2D147903.D	09/09/15	20:02	11:51	(unrelated sample)
JC3254-1R	2D147903R.D	09/09/15	20:02	11:51	MW-15

Volatile Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5985-CC5926	**Injection Date:**	09/10/15
Lab File ID:	2B134298.D	**Injection Time:**	09:41
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	123466	8.36	551317	10.81	563631	11.72	492257	14.70	256379	16.86
Upper Limit [a]	246932	8.86	1102634	11.31	1127262	12.22	984514	15.20	512758	17.36
Lower Limit [b]	61733	7.86	275659	10.31	281816	11.22	246129	14.20	128190	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5985-MB	119549	8.36	543313	10.81	553335	11.72	464401	14.70	236857	16.86
V2B5985-BS	116413	8.36	530137	10.81	545857	11.72	475302	14.70	247146	16.86
ZZZZZZ	120448	8.36	555664	10.81	565253	11.72	470503	14.70	238899	16.86
ZZZZZZ	121484	8.36	549065	10.81	561410	11.72	468929	14.70	238281	16.86
ZZZZZZ	121140	8.36	545072	10.81	558922	11.72	464756	14.70	237168	16.86
JC3137-3	117470	8.37	541143	10.81	549704	11.72	457447	14.70	232772	16.86
ZZZZZZ	115173	8.36	541418	10.81	554832	11.72	459080	14.70	230470	16.86
ZZZZZZ	117555	8.36	542811	10.81	558149	11.72	462711	14.70	235445	16.86
ZZZZZZ	116370	8.36	532772	10.81	552095	11.72	459093	14.70	236690	16.86
ZZZZZZ	117939	8.36	535640	10.81	554127	11.72	461449	14.70	236159	16.86
JC3137-3MS	114829	8.36	531471	10.81	545556	11.72	480543	14.70	246230	16.86
JC3137-3MSD	118261	8.37	543087	10.81	552333	11.72	479774	14.70	248387	16.86
ZZZZZZ	123666	8.37	557579	10.81	565496	11.72	470472	14.70	243867	16.86
ZZZZZZ	120362	8.36	541650	10.81	553695	11.72	460365	14.70	234953	16.86
ZZZZZZ	117346	8.36	533959	10.81	548707	11.72	466291	14.70	246140	16.86
JC3254-2R	117346	8.36	533959	10.81	548707	11.72	466291	14.70	246140	16.86
ZZZZZZ	124256	8.36	560186	10.81	568537	11.72	478442	14.70	247249	16.86
JC3254-4R	124256	8.36	560186	10.81	568537	11.72	478442	14.70	247249	16.86
JC3254-5R	121579	8.36	552073	10.81	558952	11.72	467478	14.70	240748	16.86
ZZZZZZ	121579	8.36	552073	10.81	558952	11.72	467478	14.70	240748	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5988-CC5926	**Injection Date:**	09/11/15
Lab File ID:	2B134373.D	**Injection Time:**	22:27
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	106358	8.36	460105	10.81	461481	11.72	392045	14.70	207335	16.86
Upper Limit [a]	212716	8.86	920210	11.31	922962	12.22	784090	15.20	414670	17.36
Lower Limit [b]	53179	7.86	230053	10.31	230741	11.22	196023	14.20	103668	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5988-MB	110749	8.36	488557	10.81	476287	11.72	391071	14.70	198416	16.86
V2B5988-BS	105501	8.36	455336	10.81	453729	11.72	388586	14.70	204626	16.86
JC3254-25MS	107215	8.36	457124	10.81	453750	11.72	387177	14.70	204314	16.86
JC3254-25RMS	107215	8.36	457124	10.81	453750	11.72	387177	14.70	204314	16.86
JC3254-25MSD	106546	8.36	452273	10.81	448478	11.72	376801	14.70	199335	16.86
JC3254-25RMSD	106546	8.36	452273	10.81	448478	11.72	376801	14.70	199335	16.86
JC3254-25R	112309	8.36	475010	10.81	457336	11.72	377507	14.71	197919	16.86
JC3254-25	112309	8.36	475010	10.81	457336	11.72	377507	14.71	197919	16.86
JC3254-25	110714	8.36	476282	10.81	458646	11.72	376291	14.70	194837	16.86
JC3254-25R	110714	8.36	476282	10.81	458646	11.72	376291	14.70	194837	16.86
ZZZZZZ	110758	8.36	477248	10.81	461917	11.72	385004	14.71	196738	16.86
JC3254-26R	110758	8.36	477248	10.81	461917	11.72	385004	14.71	196738	16.86
ZZZZZZ	110566	8.36	476880	10.81	462406	11.72	385736	14.70	197487	16.86
JC3254-27R	110566	8.36	476880	10.81	462406	11.72	385736	14.70	197487	16.86
JC3254-29R	109580	8.36	476443	10.81	461292	11.72	383716	14.71	196173	16.86
ZZZZZZ	109580	8.36	476443	10.81	461292	11.72	383716	14.71	196173	16.86
ZZZZZZ	107026	8.35	473559	10.81	462191	11.72	376906	14.70	192023	16.86
JC3254-30R	107026	8.35	473559	10.81	462191	11.72	376906	14.70	192023	16.86
ZZZZZZ	108134	8.36	481173	10.81	469698	11.72	383346	14.71	193974	16.86
JC3254-31R	108134	8.36	481173	10.81	469698	11.72	383346	14.71	193974	16.86
ZZZZZZ	106464	8.36	467074	10.81	458760	11.72	383863	14.70	194869	16.86
JC3254-21R	106464	8.36	467074	10.81	458760	11.72	383863	14.70	194869	16.86
JC3254-22R	106612	8.36	471558	10.81	462030	11.72	383928	14.71	195989	16.86
ZZZZZZ	106612	8.36	471558	10.81	462030	11.72	383928	14.71	195989	16.86
JC3254-23R	104283	8.36	471843	10.81	461381	11.72	385932	14.71	194949	16.86
ZZZZZZ	104283	8.36	471843	10.81	461381	11.72	385932	14.71	194949	16.86
JC3254-24R	106301	8.35	470543	10.81	460941	11.72	378166	14.71	193383	16.86
ZZZZZZ	106301	8.35	470543	10.81	460941	11.72	378166	14.71	193383	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

Volatile Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5988-CC5926	**Injection Date:**	09/11/15
Lab File ID:	2B134373.D	**Injection Time:**	22:27
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5989-CC5926	**Injection Date:**	09/12/15
Lab File ID:	2B134395.D	**Injection Time:**	09:17
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	103936	8.36	461595	10.81	454755	11.72	391896	14.70	203945	16.86
Upper Limit [a]	207872	8.86	923190	11.31	909510	12.22	783792	15.20	407890	17.36
Lower Limit [b]	51968	7.86	230798	10.31	227378	11.22	195948	14.20	101973	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5989-MB	105371	8.36	469957	10.81	460319	11.72	374848	14.70	191313	16.86
V2B5989-BS	105280	8.36	443746	10.81	445802	11.72	378345	14.70	200976	16.86
JC3254-16R	106169	8.37	468125	10.81	453294	11.72	371075	14.70	190457	16.86
JC3254-16	106169	8.37	468125	10.81	453294	11.72	371075	14.70	190457	16.86
ZZZZZZ	107391	8.36	462674	10.81	451545	11.72	377785	14.70	207539	16.86
JC3254-17R	107391	8.36	462674	10.81	451545	11.72	377785	14.70	207539	16.86
JC3254-18R	112524	8.36	467840	10.81	453226	11.72	380175	14.70	207246	16.86
ZZZZZZ	112524	8.36	467840	10.81	453226	11.72	380175	14.70	207246	16.86
ZZZZZZ	113488	8.36	472941	10.81	450796	11.72	368423	14.70	194135	16.86
JC3254-19R	113488	8.36	472941	10.81	450796	11.72	368423	14.70	194135	16.86
ZZZZZZ	108742	8.36	461976	10.81	442153	11.72	360930	14.70	185582	16.86
JC3254-3R	108733	8.36	460101	10.81	438147	11.72	365642	14.70	194485	16.86
ZZZZZZ	108733	8.36	460101	10.81	438147	11.72	365642	14.70	194485	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5990-CC5926	**Injection Date:**	09/14/15
Lab File ID:	2B134421.D	**Injection Time:**	09:27
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	102110	8.36	437482	10.81	410515	11.72	352861	14.70	186871	16.86
Upper Limit [a]	204220	8.86	874964	11.31	821030	12.22	705722	15.20	373742	17.36
Lower Limit [b]	51055	7.86	218741	10.31	205258	11.22	176431	14.20	93436	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5989-MB2	105910	8.36	453963	10.81	423060	11.72	345594	14.70	182402	16.86
JC3254-16RMS	102972	8.36	427947	10.81	415433	11.72	346794	14.70	186225	16.86
JC3254-16MS	102972	8.36	427947	10.81	415433	11.72	346794	14.70	186225	16.86
JC3254-16RMSD	97834	8.36	419509	10.81	405775	11.72	344026	14.70	183885	16.86
JC3254-16MSD	97834	8.36	419509	10.81	405775	11.72	344026	14.70	183885	16.86
V2B5990-MB	103957	8.35	455512	10.81	425348	11.72	347215	14.70	180155	16.86
V2B5990-BS	98428	8.36	416852	10.81	403806	11.72	342924	14.70	183037	16.86
ZZZZZZ	105316	8.36	454291	10.81	425866	11.72	349206	14.70	185745	16.86
ZZZZZZ	104599	8.36	448636	10.81	424462	11.72	350703	14.70	182390	16.86
ZZZZZZ	104308	8.36	440559	10.81	416927	11.72	347683	14.70	184365	16.86
ZZZZZZ	101707	8.36	449291	10.81	427306	11.72	350015	14.70	182235	16.86
JC3538-8	103216	8.36	438627	10.81	420558	11.72	346296	14.70	182191	16.86
ZZZZZZ	106322	8.36	434083	10.81	421908	11.72	349854	14.70	181446	16.86
JC3538-8MS	95356	8.36	417225	10.81	406078	11.72	346889	14.70	183354	16.86
JC3538-8MSD	99007	8.36	414035	10.81	403105	11.72	344792	14.70	182286	16.86
JC3254-10R	104893	8.36	439967	10.81	415606	11.72	345988	14.70	181814	16.86
ZZZZZZ	104893	8.36	439967	10.81	415606	11.72	345988	14.70	181814	16.86
ZZZZZZ	101131	8.36	440557	10.81	416265	11.72	343496	14.70	181000	16.86
JC3254-13R	101131	8.36	440557	10.81	416265	11.72	343496	14.70	181000	16.86
ZZZZZZ	100421	8.36	426461	10.81	411587	11.72	336631	14.70	177837	16.86
ZZZZZZ	101969	8.36	433722	10.81	420151	11.72	332436	14.70	176693	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5992-CC5926	**Injection Date:**	09/15/15
Lab File ID:	2B134468.D	**Injection Time:**	08:55
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	95924	8.36	412707	10.81	395399	11.72	337591	14.70	180684	16.86
Upper Limit [a]	191848	8.86	825414	11.31	790798	12.22	675182	15.20	361368	17.36
Lower Limit [b]	47962	7.86	206354	10.31	197700	11.22	168796	14.20	90342	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5992-MB	93737	8.36	423349	10.81	399134	11.72	327238	14.70	171772	16.86
V2B5992-BS	89060	8.37	390308	10.81	377420	11.72	326082	14.70	171793	16.86
ZZZZZZ	100474	8.36	423920	10.81	395201	11.72	328584	14.70	174546	16.86
ZZZZZZ	94761	8.36	411967	10.81	400173	11.72	314919	14.70	170973	16.86
ZZZZZZ	94608	8.36	416103	10.81	390601	11.72	325670	14.70	169527	16.86
ZZZZZZ	93749	8.35	418313	10.81	393854	11.72	319308	14.70	170052	16.86
ZZZZZZ	94600	8.36	413735	10.81	392664	11.72	322213	14.70	169769	16.86
JC3254-28R	94009	8.36	417178	10.81	392956	11.72	323706	14.70	175433	16.86
ZZZZZZ	94009	8.36	417178	10.81	392956	11.72	323706	14.70	175433	16.86
ZZZZZZ	92393	8.36	413830	10.81	395370	11.72	329335	14.70	179465	16.86
JC3254-11R	92393	8.36	413830	10.81	395370	11.72	329335	14.70	179465	16.86
ZZZZZZ	99417	8.36	422698	10.81	396200	11.72	332256	14.70	179720	16.86
JC3254-20	99260	8.35	416443	10.81	390017	11.72	326622	14.70	173619	16.86
JC3254-20R	99260	8.35	416443	10.81	390017	11.72	326622	14.70	173619	16.86
ZZZZZZ	98546	8.36	415040	10.81	391267	11.72	322494	14.70	167310	16.86
ZZZZZZ	95983	8.36	412980	10.81	392425	11.72	319188	14.70	167523	16.86
JC3254-20MS	90651	8.37	376821	10.81	367016	11.72	312624	14.70	168300	16.86
JC3254-20RMS	90651	8.37	376821	10.81	367016	11.72	312624	14.70	168300	16.86
JC3254-20MSD	88998	8.36	374540	10.81	363432	11.72	308158	14.70	163812	16.86
JC3254-20RMSD	88998	8.36	374540	10.81	363432	11.72	308158	14.70	163812	16.86
ZZZZZZ	91935	8.36	395725	10.81	369846	11.72	303274	14.70	161777	16.86
ZZZZZZ	90321	8.36	380248	10.81	370046	11.72	309414	14.70	170928	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5994-CC5926	**Injection Date:**	09/16/15
Lab File ID:	2B134517.D	**Injection Time:**	09:02
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	82911	8.36	375836	10.81	361544	11.72	308441	14.70	164176	16.86
Upper Limit [a]	165822	8.86	751672	11.31	723088	12.22	616882	15.20	328352	17.36
Lower Limit [b]	41456	7.86	187918	10.31	180772	11.22	154221	14.20	82088	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5994-MB	85265	8.36	385513	10.81	365056	11.72	300051	14.70	154369	16.86
V2B5994-BS	78381	8.37	360401	10.81	348066	11.72	302416	14.70	160302	16.86
JC3669-14	83253	8.37	379285	10.81	347958	11.72	293865	14.70	153867	16.86
ZZZZZZ	80962	8.36	377281	10.81	355752	11.72	289453	14.70	149024	16.86
ZZZZZZ	81156	8.36	375039	10.81	355783	11.72	289596	14.70	150192	16.86
ZZZZZZ	81201	8.37	377842	10.81	356207	11.72	289443	14.70	150903	16.86
ZZZZZZ	80816	8.37	367922	10.81	352268	11.72	289727	14.70	150773	16.86
ZZZZZZ	80267	8.36	378636	10.81	352236	11.72	292563	14.70	152134	16.86
ZZZZZZ	81336	8.36	373718	10.81	357293	11.72	290382	14.70	158624	16.86
ZZZZZZ	82534	8.35	378541	10.81	358937	11.72	295945	14.70	151822	16.86
ZZZZZZ	81270	8.36	378015	10.81	355149	11.72	296936	14.70	161758	16.86
ZZZZZZ	86046	8.36	373396	10.81	352321	11.72	294670	14.70	160962	16.86
ZZZZZZ	86178	8.36	381880	10.81	360106	11.72	298614	14.70	160435	16.86
JC3669-14MS	83869	8.36	344952	10.81	332360	11.72	281775	14.70	148907	16.86
JC3669-14MSD	80168	8.37	340738	10.81	323353	11.72	277038	14.70	144247	16.86
ZZZZZZ	81030	8.36	368608	10.81	338722	11.72	278999	14.70	148131	16.86
JC3254-14R	81030	8.36	368608	10.81	338722	11.72	278999	14.70	148131	16.86
ZZZZZZ	81405	8.36	363449	10.81	337465	11.72	277282	14.70	147745	16.86
JC3254-15R	81405	8.36	363449	10.81	337465	11.72	277282	14.70	147745	16.86
ZZZZZZ	81788	8.35	360854	10.81	339690	11.72	280708	14.70	156209	16.86
JC3254-12R	81788	8.35	360854	10.81	339690	11.72	280708	14.70	156209	16.86
ZZZZZZ	84531	8.36	370182	10.81	348086	11.72	284794	14.70	152093	16.86
ZZZZZZ	83905	8.37	359603	10.81	335621	11.72	274262	14.70	146036	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2B5996-CC5926	**Injection Date:**	09/17/15
Lab File ID:	2B134550.D	**Injection Time:**	10:37
Instrument ID:	GCMS2B	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	95692	8.36	433316	10.81	412580	11.72	352813	14.70	189771	16.86
Upper Limit [a]	191384	8.86	866632	11.31	825160	12.22	705626	15.20	379542	17.36
Lower Limit [b]	47846	7.86	216658	10.31	206290	11.22	176407	14.20	94886	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2B5996-MB	98862	8.36	447014	10.81	425879	11.72	349630	14.70	184007	16.86
V2B5996-BS	93842	8.37	422581	10.81	411258	11.72	349721	14.70	189444	16.86
ZZZZZZ	99856	8.36	446608	10.81	422361	11.72	346497	14.70	184164	16.86
ZZZZZZ	98186	8.37	443426	10.81	420756	11.72	347505	14.70	180108	16.86
ZZZZZZ	97849	8.36	444188	10.81	416625	11.72	346915	14.70	181740	16.86
JC3795-7	100439	8.37	447978	10.81	416311	11.72	351548	14.70	184071	16.86
JC3795-7	103253	8.36	447558	10.81	426018	11.72	350184	14.70	180961	16.86
ZZZZZZ	95078	8.36	447394	10.81	428562	11.72	353184	14.70	191089	16.86
JC3254-9R	95078	8.36	447394	10.81	428562	11.72	353184	14.70	191089	16.86
ZZZZZZ	98744	8.36	441261	10.81	424209	11.72	345534	14.70	182238	16.86
JC3254-9R	98744	8.36	441261	10.81	424209	11.72	345534	14.70	182238	16.86
JC3795-7MS	95076	8.37	426983	10.81	417472	11.72	352790	14.70	191755	16.86
JC3795-7MSD	94838	8.37	418280	10.81	404936	11.72	347258	14.70	182739	16.86
ZZZZZZ	100732	8.37	442213	10.81	418618	11.72	346381	14.70	180872	16.86
ZZZZZZ	99616	8.36	438136	10.81	415794	11.72	345294	14.70	180035	16.86
ZZZZZZ	94001	8.36	436493	10.81	412207	11.72	338205	14.70	177805	16.86
ZZZZZZ	98658	8.36	439905	10.81	416960	11.72	342804	14.70	180758	16.86
ZZZZZZ	98457	8.36	426718	10.81	413052	11.72	339439	14.70	178564	16.86
ZZZZZZ	98883	8.36	427902	10.81	414833	11.72	340959	14.70	181097	16.86
ZZZZZZ	98129	8.37	436656	10.81	421122	11.72	345151	14.70	180677	16.86
ZZZZZZ	97176	8.36	425367	10.81	416331	11.72	344665	14.70	177827	16.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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 Internal Standard Area Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Check Std:	V2D6208-CC6180	**Injection Date:**	09/09/15
Lab File ID:	2D147883.D	**Injection Time:**	09:53
Instrument ID:	GCMS2D	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	92582	7.57	381557	10.30	432479	11.45	430885	15.65	249193	18.41
Upper Limit [a]	185164	8.07	763114	10.80	864958	11.95	861770	16.15	498386	18.91
Lower Limit [b]	46291	7.07	190779	9.80	216240	10.95	215443	15.15	124597	17.91

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2D6208-MB	85435	7.57	388746	10.30	440634	11.45	424923	15.66	235200	18.42
V2D6208-BS	81403	7.58	356215	10.30	407742	11.45	405567	15.66	238212	18.42
ZZZZZZ	80312	7.58	361086	10.30	400239	11.46	390221	15.66	220696	18.42
JC3254-6	77587	7.57	347740	10.30	389553	11.46	382505	15.66	212575	18.42
JC3254-6R	77587	7.57	347740	10.30	389553	11.46	382505	15.66	212575	18.42
JC3254-7R	73640	7.58	330802	10.30	364122	11.46	354577	15.66	203360	18.42
JC3254-7	73640	7.58	330802	10.30	364122	11.46	354577	15.66	203360	18.42
JC3254-8R	71567	7.57	331475	10.31	374343	11.46	364327	15.66	203391	18.42
ZZZZZZ	71567	7.57	331475	10.31	374343	11.46	364327	15.66	203391	18.42
ZZZZZZ	75579	7.57	331163	10.30	365419	11.46	360351	15.66	209495	18.42
ZZZZZZ	74621	7.59	343206	10.31	388179	11.46	370305	15.66	214329	18.42
ZZZZZZ	72106	7.58	326182	10.31	364590	11.46	355446	15.66	203355	18.42
JC3254-6MS	76606	7.59	334474	10.31	377873	11.47	382411	15.66	224982	18.42
JC3254-7DUP	84154	7.58	370249	10.31	410596	11.47	399684	15.66	223275	18.42
ZZZZZZ	78184	7.58	354554	10.31	393800	11.47	379425	15.66	212047	18.42
ZZZZZZ	76299	7.57	342203	10.31	383849	11.46	373909	15.66	210540	18.42
ZZZZZZ	78221	7.57	338126	10.31	377037	11.46	369200	15.66	211690	18.42
ZZZZZZ	71769	7.57	324154	10.31	356298	11.46	354007	15.66	200933	18.42
ZZZZZZ	72217	7.58	318158	10.31	352434	11.46	343701	15.66	198284	18.42
ZZZZZZ	71114	7.58	315763	10.31	353267	11.47	344291	15.66	195986	18.42
JC3254-1R	71114	7.58	315763	10.31	353267	11.47	344291	15.66	195986	18.42

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 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: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC3254-1R	2D147903R.D	108	111	112	109
JC3254-2R	2B134317R.D	109	105	105	102
JC3254-3R	2B134408R.D	101	111	104	103
JC3254-4R	2B134319R.D	106	102	105	102
JC3254-5R	2B134320R.D	107	103	105	101
JC3254-6R	2D147889R.D	107	109	113	112
JC3254-7R	2D147890R.D	109	108	112	111
JC3254-8R	2D147891R.D	106	110	112	112
JC3254-9R	2B134561R.D	105	119	103	103
JC3254-9R	2B134560R.D	106	119	105	104
JC3254-10R	2B134438R.D	102	111	106	104
JC3254-11R	2B134478R.D	104	114	105	103
JC3254-12R	2B134538R.D	100	113	103	100
JC3254-13R	2B134439R.D	102	112	104	103
JC3254-14R	2B134536R.D	99	112	103	104
JC3254-15R	2B134537R.D	101	113	102	103
JC3254-16R	2B134400R.D	105	113	104	104
JC3254-17R	2B134401R.D	107	115	106	102
JC3254-18R	2B134402R.D	104	113	106	102
JC3254-19R	2B134403R.D	102	110	103	104
JC3254-20R	2B134480R.D	102	111	106	105
JC3254-21R	2B134390R.D	105	116	105	104
JC3254-22R	2B134391R.D	106	115	104	106
JC3254-23R	2B134392R.D	107	115	106	105
JC3254-24R	2B134393R.D	106	114	105	105
JC3254-25R	2B134381R.D	102	110	104	105
JC3254-25R	2B134380R.D	102	111	105	105
JC3254-26R	2B134382R.D	103	112	105	107
JC3254-27R	2B134383R.D	104	112	106	106
JC3254-28R	2B134477R.D	104	113	105	102
JC3254-29R	2B134386R.D	104	114	106	105
JC3254-30R	2B134387R.D	105	114	105	106
JC3254-31R	2B134388R.D	106	115	104	106
JC3137-3MS	2B134312.D	102	99	107	103
JC3137-3MSD	2B134313.D	101	97	106	103
JC3254-16RMS	2B134424R.D	98	109	104	105
JC3254-16RMSD	2B134425R.D	99	108	106	105
JC3254-20RMS	2B134486R.D	100	111	107	106
JC3254-20RMSD	2B134487R.D	99	110	105	107
JC3254-25RMS	2B134377R.D	100	109	105	105

Volatile Surrogate Recovery Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC3254-25RMSD	2B134378R.D	98	107	105	105
JC3254-6MS	2D147895.D	108	111	114	107
JC3254-7DUP	2D147897.D	107	107	112	114
JC3538-8MS	2B134435.D	100	109	105	106
JC3538-8MSD	2B134436.D	98	109	106	106
JC3669-14MS	2B134533.D	96	112	103	106
JC3669-14MSD	2B134534.D	97	110	104	107
JC3795-7MS	2B134562.D	101	116	105	104
JC3795-7MSD	2B134563.D	100	114	105	106
V2B5985-BS	2B134301.D	101	100	107	103
V2B5985-MB	2B134300.D	108	105	105	102
V2B5988-BS	2B134376.D	101	110	106	105
V2B5988-MB	2B134375.D	104	113	105	106
V2B5989-BS	2B134398.D	101	112	105	104
V2B5989-MB	2B134397.D	108	116	104	105
V2B5990-BS	2B134428.D	97	109	106	105
V2B5990-MB	2B134427.D	100	110	104	105
V2B5992-BS	2B134471.D	99	110	106	106
V2B5992-MB	2B134470.D	102	112	104	104
V2B5994-BS	2B134520.D	100	112	105	104
V2B5994-MB	2B134519.D	105	114	103	104
V2B5996-BS	2B134553.D	100	114	104	103
V2B5996-MB	2B134552.D	105	117	103	103
V2D6208-BS	2D147886.D	107	108	112	108
V2D6208-MB	2D147885.D	107	107	111	112
V2B5989-MB2	2B134423.D	100	109	104	105

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICC5926
Lab FileID: 2B132815.D

```
                    Response Factor Report  MS2B

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Calibration Files
1   =2B132810.D  2   =2B132811.D  100 =2B132816.D  50  =2B132815.D
20  =2B132814.D  200 =2B132817.D  5   =2B132812.D  10  =2B132813.D
0.5 =2B132809.D  0.2 =2B132808.D      =                =

Compound
        1     2     100   50    20    200   5     10    0.5   0.2    Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
     1.147 1.214 1.089 1.167 1.238 1.064 1.250 1.156              1.166    5.76
3)  ethanol
     0.140 0.132 0.105 0.111 0.118 0.090 0.128 0.123 0.134        0.120   13.13
4)  1,4-dioxane
           0.078 0.109 0.108 0.105 0.113 0.103 0.104              0.103   11.28

5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  freon 143a
                                                                  0.000#  -1.00
7)  freon 142b
                                                                  0.000#  -1.00
8)  freon 141b
                                                                  0.000#  -1.00
9)  chlorodifluoromethane
     0.253 0.267 0.313 0.297 0.300 0.339 0.285 0.288              0.293    9.09
10)  dichlorodifluoromethane
           0.360 0.462 0.433 0.442 0.497 0.429 0.437              0.437    9.50
11)  chlorotrifluoroethene
                                                                  0.000#  -1.00
12)  chloromethane
     0.366 0.367 0.412 0.409 0.412 0.437 0.389 0.399 0.414 0.443  0.405    6.35
13)  vinyl chloride
     0.328 0.345 0.381 0.373 0.382 0.412 0.373 0.376 0.324        0.366    7.74
14)  1,3-Butadiene
                                                                  0.000#  -1.00
15)  bromomethane
     0.255 0.260 0.237 0.240 0.251       0.256 0.256 0.288        0.255    6.15
16)  chloroethane
     0.138 0.164 0.169 0.165 0.170 0.178 0.168 0.172              0.165    7.33
17)  vinyl bromide
                                                                  0.000#  -1.00
18)  trichlorofluoromethane
     0.385 0.431 0.463 0.451 0.466 0.511 0.470 0.469 0.362        0.445   10.36
19)  Pentane
                                                                  0.000#  -1.00
20)  ethyl ether
     0.124 0.143 0.139 0.136 0.139 0.156 0.140 0.137              0.139    6.36
21)  acrolein
     0.043 0.043 0.044 0.043 0.045 0.047 0.045 0.043              0.044    3.39
22)  2-chloropropane
     0.537 0.502 0.464 0.455 0.473 0.503 0.493 0.480              0.488    5.36
23)  1,2-dichloro-1,2,2-trifluoroet
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICC5926
Lab FileID: 2B132815.D

```
                                                                    0.000#  -1.00
24)  1,1-dichloroethene
      0.223 0.250 0.243 0.239 0.245 0.265 0.248 0.254 0.202         0.241    7.66
25)  acetone
                   0.061 0.064 0.074 0.065 0.077 0.078              0.070   10.65
26)  allyl chloride
      0.106 0.116 0.133 0.132 0.134 0.151 0.135 0.133               0.130   10.33
27)  acetonitrile
                   0.014 0.015 0.015 0.015 0.015 0.015              0.015    2.29
28)  iodomethane
      0.480 0.522 0.536 0.522 0.534 0.592 0.522 0.536 0.466         0.523    6.86
29)  iso-butyl alcohol
                   0.003 0.003 0.003 0.003 0.003 0.003              0.003#   6.49
30)  carbon disulfide
      0.863 0.849 0.875 0.856 0.884 0.938 0.868 0.890 0.795 0.820   0.864    4.53
31)  methylene chloride
      0.275 0.270 0.275 0.270 0.279 0.301 0.285 0.285 0.251         0.277    4.99
32)  methyl acetate
                   0.037 0.037 0.039 0.041 0.037 0.036              0.038    4.78
33)  1-chloropropane
                   0.445 0.442 0.462 0.486 0.468 0.462              0.461    3.50
34)  methyl tert butyl ether
      0.652 0.677 0.683 0.676 0.701 0.733 0.676 0.694 0.588 0.581   0.666    7.20
35)  trans-1,2-dichloroethene
      0.262 0.281 0.269 0.269 0.276 0.291 0.288 0.281 0.218         0.270    8.07
36)  di-isopropyl ether
      0.822 0.840 0.812 0.816 0.848 0.862 0.813 0.830 0.813 0.619   0.808    8.45
37)  2-butanone
                   0.027 0.027 0.026 0.029 0.021 0.026              0.026   11.22
38)  1,1-dichloroethane
      0.436 0.450 0.470 0.467 0.474 0.511 0.474 0.476 0.372 0.372   0.450   10.11
39)  chloroprene
      0.345 0.356 0.367 0.362 0.364 0.398 0.372 0.368 0.307         0.360    6.78
40)  acrylonitrile
      0.080 0.086 0.086 0.085 0.087 0.094 0.085 0.087 0.072         0.085    6.83
41)  vinyl acetate
                   0.045 0.045 0.044 0.049 0.040 0.043              0.044    6.94
42)  ethyl tert-butyl ether
      0.690 0.706 0.753 0.733 0.730 0.831 0.695 0.711 0.659 0.572   0.708    9.37
43)  ethyl acetate
                   0.029 0.032 0.029 0.034 0.026 0.029              0.030    8.85
44)  2,2-dichloropropane
      0.397 0.400 0.398 0.400 0.414 0.422 0.399 0.415 0.353         0.400    4.98
45)  cis-1,2-dichloroethene
      0.273 0.316 0.303 0.302 0.307 0.332 0.304 0.306 0.291 0.263   0.300    6.67
46)  propionitrile
      0.027 0.032 0.031 0.031 0.032 0.033 0.031 0.032 0.025         0.030    9.05
47)  bromochloromethane
      0.137 0.151 0.157 0.155 0.157 0.174 0.162 0.157 0.107         0.151   12.56
48)  tetrahydrofuran
            0.063 0.061 0.071 0.064 0.066 0.065 0.063               0.065    4.78
49)  chloroform
      0.458 0.478 0.466 0.466 0.478 0.504 0.479 0.472 0.427 0.409   0.464    5.92
50)  t-butyl formate
      0.152 0.151 0.189 0.177 0.176 0.212 0.158 0.171               0.173   11.88
51)  dibromofluoromethane (s)
      0.330 0.331 0.332 0.329 0.333 0.335 0.336 0.333 0.328 0.329   0.332    0.80
52)  1,2-dichloroethane-d4 (s)
      0.340 0.341 0.340 0.339 0.337 0.343 0.344 0.344 0.342 0.343   0.341    0.68
53)  freon 113
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICC5926
Lab FileID: 2B132815.D

```
      0.189 0.187 0.218 0.212 0.223 0.239 0.219 0.222              0.214    8.26
54)  methacrylonitrile
      0.119 0.132 0.142 0.140 0.137 0.154 0.137 0.141              0.138    7.24
55)  1,1,1-trichloroethane
      0.376 0.375 0.426 0.415 0.416 0.469 0.407 0.405 0.328        0.402    9.77
56)  Cyclohexane
      0.316 0.350 0.383 0.369 0.377 0.415 0.367 0.382 0.301        0.362    9.71
57)  tert amyl alcohol
                                                                   0.000#  -1.00

58) I   1,4-difluorobenzene   ----------------ISTD---------------------
59)  tert amyl ethyl ether
                                                                   0.000#  -1.00
60)  Di-isobutylene
                                                                   0.000#  -1.00
61)  epichlorohydrin
      0.017 0.017 0.018 0.018 0.018 0.020 0.018 0.018              0.018    6.57
62)  n-butyl alcohol
      0.004 0.004 0.005 0.005 0.005 0.006 0.004 0.005              0.005#  11.72
63)  carbon tetrachloride
      0.359 0.360 0.347 0.344 0.353 0.373 0.363 0.361 0.323 0.286  0.347    7.30
64)  1,1-dichloropropene
      0.296 0.321 0.308 0.310 0.310 0.335 0.315 0.317 0.284        0.311    4.66
65)  hexane
      0.289 0.288 0.331 0.325 0.330 0.364 0.327 0.331              0.323    7.59
66)  benzene
      0.908 0.925 0.905 0.914 0.948 0.973 0.927 0.943 0.852 0.814  0.911    5.13
67)  2,2,4-trimethylpentane
      0.727 0.746 0.774 0.768 0.793 0.816 0.778 0.783 0.653        0.760    6.28
68)  tert-amyl methyl ether
      0.586 0.561 0.558 0.557 0.579 0.611 0.565 0.561 0.543 0.599  0.572    3.71
69)  heptane
      0.143 0.135 0.168 0.164 0.159 0.183 0.158 0.162              0.159    9.31
70)  isopropyl acetate
      0.359 0.351 0.371 0.369 0.370 0.406 0.354 0.364              0.368    4.65
71)  1,2-dichloroethane
      0.284 0.301 0.295 0.301 0.306 0.316 0.307 0.316 0.269 0.220  0.292    9.88
72)  trichloroethene
      0.224 0.246 0.256 0.255 0.249 0.275 0.261 0.251 0.221        0.248    6.89
73)  ethyl acrylate
                                                                   0.000#  -1.00
74)  2-nitropropane
            0.054 0.054 0.053 0.054 0.059 0.057 0.049              0.054    5.50
75)  2-chloroethyl vinyl ether
      0.103 0.105 0.113 0.122 0.127 0.115 0.115 0.119 0.099        0.113    8.06
76)  methyl methacrylate
            0.046 0.055 0.054 0.057 0.059 0.049 0.054              0.053    8.24
77)  1,2-dichloropropane
      0.213 0.218 0.237 0.236 0.240 0.252 0.229 0.235 0.205        0.229    6.37
78)  dibromomethane
      0.135 0.149 0.146 0.146 0.152 0.158 0.145 0.149 0.111        0.143    9.44
79)  methylcyclohexane
      0.359 0.339 0.391 0.381 0.387 0.411 0.372 0.382 0.292        0.368    9.55
80)  bromodichloromethane
      0.310 0.321 0.333 0.334 0.330 0.362 0.319 0.335 0.291        0.326    5.98
81)  cis-1,3-dichloropropene
      0.359 0.375 0.391 0.392 0.390 0.420 0.363 0.387 0.335        0.379    6.43
82)  toluene-d8 (s)
      1.064 1.058 1.077 1.077 1.077 1.065 1.054 1.064 1.052 1.059  1.065    0.89
83)  4-methyl-2-pentanone
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICC5926
Lab FileID: 2B132815.D

```
             0.073 0.072 0.073 0.075 0.079 0.068 0.071              0.073    4.49
 84)  toluene
       0.606 0.564 0.572 0.568 0.571 0.616 0.556 0.577 0.625 0.590  0.585    4.05
 85)  3-methyl-1-butanol
             0.006 0.007 0.007 0.007 0.008 0.007 0.007              0.007#   9.24
 86)  trans-1,3-dichloropropene
       0.309 0.310 0.347 0.345 0.344 0.377 0.322 0.332 0.275        0.329    8.90
 87)  ethyl methacrylate
       0.216 0.229 0.264 0.261 0.258 0.278 0.235 0.255              0.250    8.36
 88)  1,1,2-trichloroethane
       0.159 0.164 0.171 0.172 0.174 0.185 0.165 0.169 0.143        0.167    6.90
 89)  2-hexanone
             0.048 0.065 0.062 0.064 0.068 0.058 0.061              0.061   10.96

 90) I   chlorobenzene-d5      ----------------ISTD---------------------
 91)  n-butyl ether
       0.990 1.039 1.202 1.180 1.146 1.332 1.089 1.128 0.920        1.114   11.00
 92)  tetrachloroethene
       0.275 0.289 0.312 0.312 0.295 0.342 0.302 0.306 0.267        0.300    7.47
 93)  1,3-dichloropropane
       0.372 0.384 0.403 0.399 0.392 0.452 0.385 0.397 0.325        0.390    8.47
 94)  butyl acetate
       0.117 0.126 0.139 0.138 0.137 0.160 0.136 0.137              0.136    8.90
 95)  3,3-dimethyl-1-butanol
             0.014 0.018 0.017 0.017 0.021 0.016 0.016              0.017   13.22
 96)  dibromochloromethane
       0.314 0.322 0.350 0.337 0.332 0.396 0.324 0.335 0.287        0.333    8.87
 97)  1,2-dibromoethane
       0.241 0.257 0.279 0.272 0.264 0.316 0.263 0.265 0.209        0.263   10.92
 98)  chlorobenzene
       0.743 0.734 0.768 0.759 0.750 0.855 0.754 0.766 0.664 0.607  0.740    8.87
 99)  1,1,1,2-tetrachloroethane
       0.286 0.285 0.310 0.301 0.299 0.355 0.302 0.305 0.265        0.301    8.09
100)  ethylbenzene
       1.131 1.224 1.239 1.232 1.228 1.366 1.224 1.264 1.083 0.979  1.197    8.94
101)  m,p-xylene
       0.447 0.467 0.502 0.491 0.494 0.566 0.494 0.499 0.402 0.385  0.475   11.05
102)  o-xylene
       0.460 0.483 0.520 0.513 0.506 0.587 0.489 0.503 0.435        0.500    8.49
103)  styrene
       0.753 0.770 0.863 0.859 0.847 0.959 0.804 0.839 0.701 0.624  0.802   11.76
104)  butyl acrylate
                                                                    0.000#  -1.00
105)  bromoform
       0.200 0.224 0.266 0.255 0.240 0.306 0.231 0.239 0.204        0.241   13.53

106) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
107)  isopropylbenzene
       2.097 2.283 2.369 2.415 2.397 2.503 2.284 2.391 2.049 1.832  2.262    9.16
108)  4-bromofluorobenzene (s)
       0.839 0.839 0.842 0.841 0.847 0.817 0.839 0.846 0.838 0.844  0.839    1.00
109)  cyclohexanone
       0.013 0.014 0.016 0.019 0.018 0.018 0.017 0.018              0.017   12.69
110)  bromobenzene
       0.629 0.698 0.721 0.722 0.720 0.772 0.700 0.718 0.642 0.499  0.682   11.16
111)  1,1,2,2-tetrachloroethane
       0.521 0.548 0.567 0.570 0.568 0.605 0.546 0.565 0.487 0.422  0.540    9.65
112)  trans-1,4-dichloro-2-butene
       0.109 0.132 0.137 0.138 0.133 0.149 0.130 0.130              0.132    8.61
113)  1,2,3-trichloropropane
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICC5926
Lab FileID: 2B132815.D

```
       0.112 0.133 0.145 0.143 0.146 0.153 0.142 0.149              0.140    9.14
114)  n-propylbenzene
       2.283 2.437 2.483 2.549 2.558 2.601 2.496 2.592 2.118 2.038  2.415    8.32
115)  2-chlorotoluene
       0.564 0.586 0.609 0.599 0.607 0.657 0.587 0.590 0.437        0.582   10.31
116)  4-chlorotoluene
       1.442 1.591 1.619 1.614 1.627 1.720 1.582 1.625 1.435 1.259  1.551    8.64
117)  1,3,5-trimethylbenzene
       1.729 1.825 1.881 1.917 1.956 1.990 1.873 1.968 1.616 1.564  1.832    8.13
118)  tert-butylbenzene
       1.444 1.569 1.770 1.760 1.712 1.896 1.621 1.666 1.402        1.649    9.66
119)  pentachloroethane
       0.422 0.456 0.452 0.453 0.455 0.496 0.444 0.456 0.415        0.450    5.11
120)  1,2,4-trimethylbenzene
       1.626 1.773 1.858 1.908 1.925 1.945 1.851 1.935 1.556 1.508  1.788    9.26
121)  sec-butylbenzene
       2.208 2.410 2.577 2.567 2.583 2.689 2.491 2.594 2.093 2.130  2.434    8.82
122)  1,3-dichlorobenzene
       1.257 1.339 1.292 1.302 1.311 1.380 1.299 1.337 1.136 1.091  1.274    7.18
123)  p-isopropyltoluene
       1.926 2.093 2.203 2.225 2.233 2.312 2.103 2.203 1.834        2.126    7.33
124)  1,4-dichlorobenzene
       1.231 1.218 1.286 1.279 1.265 1.400 1.219 1.267 1.115        1.253    6.04
125)  1,2-dichlorobenzene
       1.139 1.244 1.282 1.282 1.282 1.364 1.229 1.273 1.015 1.080  1.219    8.83
126)  n-butylbenzene
       0.844 0.907 1.101 1.098 1.065 1.181 0.998 1.035              1.028   10.68
127)  1,2-dibromo-3-chloropropane
             0.116 0.144 0.138 0.133 0.157 0.117 0.125              0.133   11.08
128)  1,3,5-trichlorobenzene
       1.005 1.081 1.247 1.244 1.217 1.293 1.112 1.161              1.170    8.38
129)  1,2,4-trichlorobenzene
       0.775 0.837 1.083 1.061 1.017 1.119 0.887 0.945              0.965   12.89
130)  hexachlorobutadiene
       0.541 0.567 0.604 0.614 0.612 0.628 0.576 0.611              0.594    4.98
131)  naphthalene
       1.174 1.302 1.676 1.676 1.614 1.698 1.372 1.508              1.503   13.22
132)  1,2,3-trichlorobenzene
       0.662 0.703 0.878 0.863 0.839 0.882 0.756 0.807              0.799   10.46
133)  hexachloroethane
       0.431 0.405 0.478 0.456 0.461 0.551 0.434 0.445              0.458    9.56
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2B5926.M         Wed Jul 29 16:46:37 2015   MS2B
```

6.9.1

6

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICV5926
Lab FileID: 2B132820.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\2B132820.D Vial: 16
Acq On : 24 Jul 2015 4:23 pm Operator: BridgetK
Sample : icv5926-50 Inst : MS2B
Misc : ms88284,v2B5926,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF : 0.010 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	104	0.00	8.37
2	M	tertiary butyl alcohol	1.166	1.175	-0.8	105	0.00	8.50
3		ethanol	0.120	0.115	4.2	109	0.00	6.92
4	M	1,4-dioxane	0.103	0.107	-3.9	103	0.00	12.42
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	10.82
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.266	9.2	90	0.00	4.50
10	M	dichlorodifluoromethane	0.437	0.344	21.3	80	0.00	4.49
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.365	9.9	90	0.00	4.87
13	M	vinyl chloride	0.366	0.352	3.8	95	0.01	5.17
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.236	7.5	99	0.00	5.90
16	M	chloroethane	0.165	0.182	-10.3	112	0.00	6.11
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.416	6.5	93	0.00	6.68
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.141	-1.4	105	0.00	7.15
21	M	acrolein	0.044	0.049	-11.4	114	0.00	7.38
22		2-chloropropane	0.488	0.459	5.9	102	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.237	1.7	100	0.00	7.60
25	M	acetone	0.070	0.070	0.0	110	0.00	7.64
26	M	allyl chloride	0.130	0.146	-12.3	112	0.00	8.20
27	M	acetonitrile	0.015	0.014	6.7	98	0.00	8.10
28	M	iodomethane	0.523	0.524	-0.2	102	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	104	0.00	11.09
30	M	carbon disulfide	0.864	0.879	-1.7	104	0.00	8.04
31	M	methylene chloride	0.277	0.273	1.4	102	0.00	8.38
32	M	methyl acetate	0.038	0.035	7.9	94	0.00	8.19
33		1-chloropropane	0.461	0.459	0.4	105	0.00	8.46
34	M	methyl tert butyl ether	0.666	0.659	1.2	99	0.00	8.82
35	M	trans-1,2-dichloroethene	0.270	0.257	4.8	97	0.00	8.83
36	M	di-isopropyl ether	0.808	0.808	0.0	100	0.00	9.50
37	M	2-butanone	0.026	0.027	-3.8	101	0.00	10.21
38	M	1,1-dichloroethane	0.450	0.475	-5.6	103	0.00	9.44
39	M	chloroprene	0.360	0.371	-3.1	104	0.00	9.58
40	M	acrylonitrile	0.085	0.086	-1.2	102	0.00	8.74
41	M	vinyl acetate	0.044	0.047	-6.8	106	0.00	9.46

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICV5926
Lab FileID: 2B132820.D

42	M	ethyl tert-butyl ether	0.708	0.729	-3.0	101	0.00	10.00
43	M	ethyl acetate	0.030	0.032	-6.7	104	0.00	10.25
44	M	2,2-dichloropropane	0.400	0.401	-0.3	101	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.298	0.7	100	0.00	10.23
46	M	propionitrile	0.030	0.030	0.0	97	0.00	10.28
47	M	bromochloromethane	0.151	0.154	-2.0	101	0.00	10.55
48	M	tetrahydrofuran	0.065	0.072	-10.8	103	0.00	10.62
49	M	chloroform	0.464	0.465	-0.2	101	0.00	10.62
50		t-butyl formate	0.173	0.187	-8.1	107	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.330	0.6	101	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.339	0.6	101	0.00	11.26
53	M	freon 113	0.214	0.227	-6.1	108	0.00	7.61
54	M	methacrylonitrile	0.138	0.140	-1.4	101	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.418	-4.0	102	0.00	10.92
56	M	Cyclohexane	0.362	0.377	-4.1	103	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.73
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.019	-5.6	105	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	102	0.00	11.83
63	M	carbon tetrachloride	0.347	0.348	-0.3	102	0.00	11.14
64	M	1,1-dichloropropene	0.311	0.318	-2.3	103	0.00	11.10
65	M	hexane	0.323	0.278	13.9	87	0.00	9.22
66	M	benzene	0.911	0.921	-1.1	102	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.757	0.4	100	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.563	1.6	102	0.00	11.43
69	M	heptane	0.159	0.175	-10.1	107	0.00	11.59
70	M	isopropyl acetate	0.368	0.367	0.3	101	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.302	-3.4	101	0.00	11.35
72	M	trichloroethene	0.248	0.254	-2.4	100	0.00	12.06
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.051	5.6	97	0.00	12.77
75	M	2-chloroethyl vinyl ether	0.113	0.122	-8.0	101	0.00	12.80
76	M	methyl methacrylate	0.053	0.056	-5.7	105	0.00	12.33
77	M	1,2-dichloropropane	0.229	0.234	-2.2	100	0.00	12.31
78	M	dibromomethane	0.143	0.143	0.0	99	0.00	12.44
79	M	methylcyclohexane	0.368	0.385	-4.6	102	0.00	12.31
80	M	bromodichloromethane	0.326	0.333	-2.1	100	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.389	-2.6	100	0.00	13.01
82	S	toluene-d8 (s)	1.065	1.060	0.5	99	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.075	-2.7	103	0.00	13.12
84	M	toluene	0.585	0.560	4.3	99	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.007#	0.0	100	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.330	-0.3	97	0.00	13.53
87	M	ethyl methacrylate	0.250	0.261	-4.4	101	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.173	-3.6	102	0.00	13.73
89	M	2-hexanone	0.061	0.064	-4.9	104	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	14.71
91	m	n-butyl ether	1.114	1.150	-3.2	98	0.00	14.69
92	M	tetrachloroethene	0.300	0.312	-4.0	100	0.00	13.93
93	M	1,3-dichloropropane	0.390	0.392	-0.5	99	0.00	13.90
94	M	butyl acetate	0.136	0.139	-2.2	101	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.016	5.9	95	0.00	14.06
96	M	dibromochloromethane	0.333	0.337	-1.2	100	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.277	-5.3	102	0.00	14.29
98	M	chlorobenzene	0.740	0.759	-2.6	100	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.298	1.0	99	0.00	14.79

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5926-ICV5926
Lab FileID: 2B132820.D

100	M	ethylbenzene	1.197	1.216	-1.6	99	0.00	14.80
101	M	m,p-xylene	0.475	0.490	-3.2	100	0.00	14.90
102	M	o-xylene	0.500	0.524	-4.8	103	0.00	15.28
103	M	styrene	0.802	0.860	-7.2	100	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.250	-3.7	99	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	16.86
107	M	isopropylbenzene	2.262	2.355	-4.1	98	0.00	15.61
108	S	4-bromofluorobenzene (s)	0.839	0.840	-0.1	100	0.00	15.78
109	M	cyclohexanone	0.017	0.017	0.0	90	0.00	15.73
110	M	bromobenzene	0.682	0.727	-6.6	101	0.00	15.96
111	M	1,1,2,2-tetrachloroethane	0.540	0.551	-2.0	97	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.136	-3.0	99	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.145	-3.6	102	0.00	15.92
114	M	n-propylbenzene	2.415	2.635	-9.1	103	0.00	15.99
115	M	2-chlorotoluene	0.582	0.602	-3.4	101	0.00	16.11
116	M	4-chlorotoluene	1.551	1.619	-4.4	100	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	1.892	-3.3	99	0.00	16.12
118	M	tert-butylbenzene	1.649	1.708	-3.6	97	0.00	16.45
119	M	pentachloroethane	0.450	0.453	-0.7	100	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	1.966	-10.0	103	0.00	16.49
121	M	sec-butylbenzene	2.434	2.529	-3.9	99	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.294	-1.6	100	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.200	-3.5	99	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.275	-1.8	100	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.309	-7.4	102	0.00	17.26
126	M	n-butylbenzene	1.028	1.118	-8.8	102	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.141	-6.0	102	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.274	-8.9	102	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	1.086	-12.5	102	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.598	-0.7	98	0.00	19.00
131	M	naphthalene	1.503	1.672	-11.2	100	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.875	-9.5	102	0.00	19.39
133	M	hexachloroethane	0.458	0.458	0.0	100	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132815.D M2B5926.M Wed Jul 29 16:46:37 2015 MS2B

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5985-CC5926
Lab FileID: 2B134298.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5985\2B134298.D      Vial: 3
Acq On    : 10 Sep 2015   9:41 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms90772,v2B5985,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	123	-0.01	8.36
2	M	tertiary butyl alcohol	1.166	0.902	22.6#	89	-0.02	8.48
3		ethanol	0.120	0.096	20.0	100	-0.02	6.89
4	M	1,4-dioxane	0.103	0.101	1.9	118	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	127	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.270	7.8	114	0.00	4.49
10	M	dichlorodifluoromethane	0.437	0.431	1.4	124	0.00	4.48
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.401	1.0	124	-0.01	4.86
13	M	vinyl chloride	0.366	0.382	-4.4	127	0.00	5.16
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.270	-5.9	136	0.00	5.90
16	M	chloroethane	0.165	0.180	-9.1	134	0.00	6.11
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.482	-8.3	131	0.00	6.68
19		Pentane	0.000	0.056	0.0	0#	0.00	7.15
20	M	ethyl ether	0.139	0.141	-1.4	128	0.00	7.14
21	M	acrolein	0.044	0.044	0.0	123	0.00	7.37
22		2-chloropropane	0.488	0.446	8.6	120	0.00	7.33
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.237	1.7	123	0.00	7.60
25	M	acetone	0.070	0.066	5.7	113	0.00	7.63
26	M	allyl chloride	0.130	0.120	7.7	114	0.00	8.19
27	M	acetonitrile	0.015	0.013	13.3	104	0.00	8.10
28	M	iodomethane	0.523	0.489	6.5	116	0.00	7.88
29	M	iso-butyl alcohol	0.003	0.003#	0.0	120	0.00	11.09
30	M	carbon disulfide	0.864	0.888	-2.8	127	0.00	8.03
31	M	methylene chloride	0.277	0.286	-3.2	130	0.00	8.38
32	M	methyl acetate	0.038	0.047	-23.7#	155	-0.01	8.18
33		1-chloropropane	0.461	0.392	15.0	108	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.635	4.7	115	0.00	8.81
35	M	trans-1,2-dichloroethene	0.270	0.274	-1.5	126	0.00	8.82
36	M	di-isopropyl ether	0.808	0.686	15.1	103	0.00	9.49
37	M	2-butanone	0.026	0.023	11.5	114	-0.01	10.20
38	M	1,1-dichloroethane	0.450	0.456	-1.3	122	0.00	9.44
39	M	chloroprene	0.360	0.323	10.3	113	0.00	9.57
40	M	acrylonitrile	0.085	0.080	5.9	117	0.00	8.73
41	M	vinyl acetate	0.044	0.024	45.5#	69	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Sample: V2B5985-CC5926
Account: AMANYWP Anderson, Mulholland & Associates
Lab FileID: 2B134298.D
Project: BMSMC, Former Tank Farm, PR

42	M	ethyl tert-butyl ether	0.708	0.625	11.7	109	0.00	9.99
43	M	ethyl acetate	0.030	0.027	10.0	119	0.00	10.25
44	M	2,2-dichloropropane	0.400	0.400	0.0	123	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.289	3.7	120	0.00	10.23
46	M	propionitrile	0.030	0.031	-3.3	123	0.00	10.27
47	M	bromochloromethane	0.151	0.162	-7.3	131	0.00	10.54
48	M	tetrahydrofuran	0.065	0.047	27.7#	94	0.00	10.62
49	M	chloroform	0.464	0.465	-0.2	123	0.00	10.61
50		t-butyl formate	0.173	0.142	17.9	102	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.340	-2.4	129	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.346	-1.5	130	0.00	11.25
53	M	freon 113	0.214	0.238	-11.2	135	0.00	7.61
54	M	methacrylonitrile	0.138	0.111	19.6	103	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.399	0.7	122	0.00	10.91
56	M	Cyclohexane	0.362	0.368	-1.7	124	0.00	11.01
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	123	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.017	5.6	112	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	118	0.00	11.82
63	M	carbon tetrachloride	0.347	0.370	-6.6	128	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.316	-1.6	125	0.00	11.09
65	M	hexane	0.323	0.253	21.7#	94	0.00	9.22
66	M	benzene	0.911	0.960	-5.4	124	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.796	-4.7	123	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.575	-0.5	122	0.00	11.42
69	M	heptane	0.159	0.151	5.0	117	0.00	11.58
70	M	isopropyl acetate	0.368	0.301	18.2	100	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.307	-5.1	123	0.00	11.34
72	M	trichloroethene	0.248	0.248	0.0	122	0.00	12.05
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.045	16.7	102	0.00	12.76
75	M	2-chloroethyl vinyl ether	0.113	0.104	8.0	101	0.00	12.80
76	M	methyl methacrylate	0.053	0.053	0.0	114	0.00	12.32
77	M	1,2-dichloropropane	0.229	0.230	-0.4	118	0.00	12.30
78	M	dibromomethane	0.143	0.155	-8.4	126	0.00	12.43
79	M	methylcyclohexane	0.368	0.383	-4.1	121	0.00	12.31
80	M	bromodichloromethane	0.326	0.332	-1.8	123	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.355	6.3	112	0.00	13.00
82	S	toluene-d8 (s)	1.065	1.132	-6.3	129	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.068	6.8	111	0.00	13.11
84	M	toluene	0.585	0.556	5.0	119	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.007#	0.0	119	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.309	6.1	110	0.00	13.53
87	M	ethyl methacrylate	0.250	0.229	8.4	109	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.173	-3.6	122	0.00	13.73
89	M	2-hexanone	0.061	0.052	14.8	98	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	126	0.00	14.70
91	m	n-butyl ether	1.114	0.904	18.9	99	0.00	14.69
92	M	tetrachloroethene	0.300	0.306	-2.0	131	0.00	13.92
93	M	1,3-dichloropropane	0.390	0.359	7.9	115	0.00	13.90
94	M	butyl acetate	0.136	0.117	14.0	107	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.014	17.6	102	0.00	14.06
96	M	dibromochloromethane	0.333	0.327	1.8	123	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.247	6.1	117	0.00	14.29
98	M	chlorobenzene	0.740	0.734	0.8	123	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.302	-0.3	127	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5985-CC5926
Lab FileID: 2B134298.D

100	M	ethylbenzene	1.197	1.139	4.8	117	0.00	14.80
101	M	m,p-xylene	0.475	0.469	1.3	119	0.00	14.90
102	M	o-xylene	0.500	0.473	5.4	118	0.00	15.28
103	M	styrene	0.802	0.753	6.1	112	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.235	2.5	123	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	16.86
107	M	isopropylbenzene	2.262	2.220	1.9	111	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.866	-3.2	123	0.00	15.77
109	M	cyclohexanone	0.017	0.012	29.4#	80	0.00	15.73
110	M	bromobenzene	0.682	0.707	-3.7	118	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.580	-7.4	123	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.106	19.7	96	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.151	-7.9	125	0.00	15.92
114	M	n-propylbenzene	2.415	2.497	-3.4	117	0.00	15.98
115	M	2-chlorotoluene	0.582	0.594	-2.1	118	0.00	16.11
116	M	4-chlorotoluene	1.551	1.573	-1.4	116	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	1.930	-5.3	119	0.00	16.12
118	M	tert-butylbenzene	1.649	1.593	3.4	112	0.00	16.45
119	M	pentachloroethane	0.450	0.477	-6.0	126	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	1.915	-7.1	120	0.00	16.48
121	M	sec-butylbenzene	2.434	2.445	-0.5	114	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.344	-5.5	123	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.105	1.0	113	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.282	-2.3	122	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.283	-5.3	120	0.00	17.26
126	M	n-butylbenzene	1.028	1.002	2.5	113	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.119	10.5	107	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.143	2.3	113	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.849	12.0	101	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.605	-1.9	119	0.00	19.00
131	M	naphthalene	1.503	1.177	21.7#	88	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.713	10.8	102	0.00	19.39
133	M	hexachloroethane	0.458	0.467	-2.0	122	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Thu Sep 10 14:35:50 2015 ACC-VOA-CLN-05A

6.9.3

6

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5988-CC5926
Lab FileID: 2B134373.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5987-5988\2B134373.D Vial: 27
Acq On    : 11 Sep 2015  10:27 pm                    Operator: BridgetK
Sample    : cc5926-50                                Inst    : MS2B
Misc      : ms90954,v2B5988,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	110	0.00	8.36
2	M	tertiary butyl alcohol	1.166	0.997	14.5	94	0.00	8.49
3		ethanol	0.120	0.102	15.0	101	0.00	6.91
4	M	1,4-dioxane	0.103	0.103	0.0	104	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.331	-13.0	119	0.00	4.49
10	M	dichlorodifluoromethane	0.437	0.429	1.8	106	0.00	4.48
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.417	-3.0	109	0.00	4.87
13	M	vinyl chloride	0.366	0.375	-2.5	107	0.00	5.16
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.245	3.9	109	0.00	5.90
16	M	chloroethane	0.165	0.169	-2.4	110	0.00	6.11
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.511	-14.8	121	0.00	6.67
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.140	-0.7	110	0.00	7.14
21	M	acrolein	0.044	0.042	4.5	104	0.00	7.37
22		2-chloropropane	0.488	0.528	-8.2	124	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.240	0.4	107	0.00	7.59
25	M	acetone	0.070	0.071	-1.4	118	-0.01	7.63
26	M	allyl chloride	0.130	0.129	0.8	105	0.00	8.19
27	M	acetonitrile	0.015	0.015	0.0	112	0.00	8.10
28	M	iodomethane	0.523	0.513	1.9	105	0.00	7.88
29	M	iso-butyl alcohol	0.003	0.003#	0.0	115	0.00	11.09
30	M	carbon disulfide	0.864	0.888	-2.8	111	0.00	8.03
31	M	methylene chloride	0.277	0.283	-2.2	112	0.00	8.38
32	M	methyl acetate	0.038	0.041	-7.9	119	-0.01	8.18
33		1-chloropropane	0.461	0.493	-6.9	119	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.715	-7.4	113	0.00	8.81
35	M	trans-1,2-dichloroethene	0.270	0.276	-2.2	110	0.00	8.82
36	M	di-isopropyl ether	0.808	0.864	-6.9	113	0.00	9.49
37	M	2-butanone	0.026	0.026	0.0	102	-0.01	10.20
38	M	1,1-dichloroethane	0.450	0.494	-9.8	113	0.00	9.44
39	M	chloroprene	0.360	0.381	-5.8	113	0.00	9.57
40	M	acrylonitrile	0.085	0.091	-7.1	114	0.00	8.73
41	M	vinyl acetate	0.044	0.033	25.0#	79	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Sample: V2B5988-CC5926
Account: AMANYWP Anderson, Mulholland & Associates
Lab FileID: 2B134373.D
Project: BMSMC, Former Tank Farm, PR

42	M	ethyl tert-butyl ether	0.708	0.778	-9.9	114	0.00	9.99
43	M	ethyl acetate	0.030	0.031	-3.3	106	0.00	10.25
44	M	2,2-dichloropropane	0.400	0.389	2.8	104	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.304	-1.3	108	0.00	10.22
46	M	propionitrile	0.030	0.033	-10.0	113	0.00	10.27
47	M	bromochloromethane	0.151	0.161	-6.6	111	0.00	10.54
48	M	tetrahydrofuran	0.065	0.074	-13.8	111	0.00	10.62
49	M	chloroform	0.464	0.497	-7.1	114	0.00	10.61
50		t-butyl formate	0.173	0.175	-1.2	106	0.00	10.69
51	S	dibromofluoromethane (s)	0.332	0.334	-0.6	109	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.377	-10.6	119	0.00	11.25
53	M	freon 113	0.214	0.221	-3.3	111	0.00	7.60
54	M	methacrylonitrile	0.138	0.144	-4.3	110	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.448	-11.4	116	0.00	10.91
56	M	Cyclohexane	0.362	0.382	-5.5	111	0.00	11.01
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.020	-11.1	108	0.00	12.90
62	M	n-butyl alcohol	0.005	0.006#	-20.0	112	0.00	11.83
63	M	carbon tetrachloride	0.347	0.412	-18.7	119	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.346	-11.3	111	0.00	11.09
65	M	hexane	0.323	0.230	28.8#	70	0.00	9.22
66	M	benzene	0.911	1.010	-10.9	110	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.804	-5.8	104	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.649	-13.5	116	0.00	11.42
69	M	heptane	0.159	0.148	6.9	90	0.00	11.58
70	M	isopropyl acetate	0.368	0.407	-10.6	110	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.362	-24.0#	119	0.00	11.34
72	M	trichloroethene	0.248	0.275	-10.9	107	0.00	12.05
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.063	-16.7	118	0.00	12.76
75	M	2-chloroethyl vinyl ether	0.113	0.125	-10.6	103	0.00	12.80
76	M	methyl methacrylate	0.053	0.057	-7.5	105	0.00	12.32
77	M	1,2-dichloropropane	0.229	0.252	-10.0	106	0.00	12.30
78	M	dibromomethane	0.143	0.161	-12.6	110	0.00	12.43
79	M	methylcyclohexane	0.368	0.383	-4.1	100	0.00	12.31
80	M	bromodichloromethane	0.326	0.371	-13.8	110	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.392	-3.4	99	0.00	13.01
82	S	toluene-d8 (s)	1.065	1.127	-5.8	104	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.081	-11.0	109	0.00	13.11
84	M	toluene	0.585	0.596	-1.9	104	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.008#	-14.3	114	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.354	-7.6	102	0.00	13.53
87	M	ethyl methacrylate	0.250	0.269	-7.6	102	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.177	-6.0	102	0.00	13.72
89	M	2-hexanone	0.061	0.063	-3.3	101	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	14.70
91	m	n-butyl ether	1.114	1.176	-5.6	101	0.00	14.69
92	M	tetrachloroethene	0.300	0.383	-27.7#	124	0.00	13.92
93	M	1,3-dichloropropane	0.390	0.395	-1.3	100	0.00	13.90
94	M	butyl acetate	0.136	0.142	-4.4	104	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.017	0.0	102	0.00	14.06
96	M	dibromochloromethane	0.333	0.354	-6.3	106	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.264	-0.4	98	0.00	14.29
98	M	chlorobenzene	0.740	0.766	-3.5	102	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.328	-9.0	110	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5988-CC5926
Lab FileID: 2B134373.D

100	M	ethylbenzene	1.197	1.267	-5.8	104	0.00	14.80
101	M	m,p-xylene	0.475	0.500	-5.3	103	0.00	14.90
102	M	o-xylene	0.500	0.524	-4.8	103	0.00	15.28
103	M	styrene	0.802	0.844	-5.2	99	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.263	-9.1	105	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	16.86
107	M	isopropylbenzene	2.262	2.527	-11.7	103	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.883	-5.2	103	0.00	15.77
109	M	cyclohexanone	0.017	0.009#	47.1#	48#	0.00	15.73
110	M	bromobenzene	0.682	0.756	-10.9	103	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.585	-8.3	101	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.137	-3.8	98	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.155	-10.7	107	0.00	15.92
114	M	n-propylbenzene	2.415	2.702	-11.9	104	0.00	15.98
115	M	2-chlorotoluene	0.582	0.621	-6.7	102	0.00	16.11
116	M	4-chlorotoluene	1.551	1.710	-10.3	104	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	2.095	-14.4	107	0.00	16.12
118	M	tert-butylbenzene	1.649	1.856	-12.6	103	0.00	16.45
119	M	pentachloroethane	0.450	0.399	11.3	86	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	2.049	-14.6	105	0.00	16.48
121	M	sec-butylbenzene	2.434	2.700	-10.9	103	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.379	-8.2	104	0.00	16.80
123	M	p-isopropyltoluene	2.126	2.376	-11.8	105	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.345	-7.3	103	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.349	-10.7	103	0.00	17.26
126	M	n-butylbenzene	1.028	1.132	-10.1	101	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.134	-0.8	95	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.259	-7.6	99	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.997	-3.3	92	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.651	-9.6	104	0.00	19.00
131	M	naphthalene	1.503	1.440	4.2	84	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.794	0.6	90	0.00	19.38
133	M	hexachloroethane	0.458	0.518	-13.1	111	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132815.D M2B5926.M Thu Sep 17 10:45:18 2015 ACC-VOA-CLN-05A

6.9.4
6

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5989-CC5926
Lab FileID: 2B134395.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5989\2B134395.D      Vial: 2
Acq On    : 12 Sep 2015   9:17 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms90889,v2B5989,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.00	8.36
2	M	tertiary butyl alcohol	1.166	0.988	15.3	83	0.00	8.49
3		ethanol	0.120	0.101	15.8	89	0.00	6.90
4	M	1,4-dioxane	0.103	0.094	8.7	92	0.00	12.42
5	I	pentafluorobenzene	1.000	1.000	0.0	106	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.311	-6.1	110	0.00	4.50
10	M	dichlorodifluoromethane	0.437	0.425	2.7	102	0.00	4.48
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.398	1.7	103	0.00	4.86
13	M	vinyl chloride	0.366	0.369	-0.8	103	0.00	5.16
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.247	3.1	105	0.01	5.91
16	M	chloroethane	0.165	0.172	-4.2	107	0.00	6.11
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.519	-16.6	118	0.01	6.69
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.136	2.2	104	0.00	7.15
21	M	acrolein	0.044	0.042	4.5	99	0.00	7.37
22		2-chloropropane	0.488	0.527	-8.0	118	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.235	2.5	102	0.00	7.60
25	M	acetone	0.070	0.078	-11.4	111	0.00	7.63
26	M	allyl chloride	0.130	0.121	6.9	96	0.00	8.20
27	M	acetonitrile	0.015	0.015	0.0	106	0.00	8.10
28	M	iodomethane	0.523	0.485	7.3	96	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	111	0.00	11.10
30	M	carbon disulfide	0.864	0.884	-2.3	106	0.00	8.04
31	M	methylene chloride	0.277	0.274	1.1	104	0.00	8.38
32	M	methyl acetate	0.038	0.039	-2.6	108	-0.01	8.18
33		1-chloropropane	0.461	0.481	-4.3	110	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.660	0.9	100	0.00	8.81
35	M	trans-1,2-dichloroethene	0.270	0.272	-0.7	104	0.00	8.83
36	M	di-isopropyl ether	0.808	0.796	1.5	100	0.00	9.50
37	M	2-butanone	0.026	0.023	11.5	92	0.00	10.21
38	M	1,1-dichloroethane	0.450	0.489	-8.7	109	0.00	9.44
39	M	chloroprene	0.360	0.346	3.9	101	0.00	9.57
40	M	acrylonitrile	0.085	0.083	2.4	102	0.00	8.73
41	M	vinyl acetate	0.044	0.028	36.4#	69	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5989-CC5926
Lab FileID: 2B134395.D

42	M	ethyl tert-butyl ether	0.708	0.673	4.9	98	0.00	9.99
43	M	ethyl acetate	0.030	0.028	6.7	104	0.00	10.26
44	M	2,2-dichloropropane	0.400	0.429	-7.2	110	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.285	5.0	98	0.00	10.23
46	M	propionitrile	0.030	0.032	-6.7	107	0.00	10.28
47	M	bromochloromethane	0.151	0.159	-5.3	108	0.00	10.55
48	M	tetrahydrofuran	0.065	0.067	-3.1	112	0.00	10.62
49	M	chloroform	0.464	0.489	-5.4	109	0.00	10.62
50		t-butyl formate	0.173	0.155	10.4	93	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.336	-1.2	107	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.384	-12.6	121	0.00	11.25
53	M	freon 113	0.214	0.227	-6.1	108	0.00	7.61
54	M	methacrylonitrile	0.138	0.129	6.5	100	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.429	-6.7	110	0.00	10.91
56	M	Cyclohexane	0.362	0.365	-0.8	103	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.019	-5.6	102	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	98	0.00	11.82
63	M	carbon tetrachloride	0.347	0.422	-21.6#	118	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.336	-8.0	108	0.00	11.10
65	M	hexane	0.323	0.190	41.2#	57	0.00	9.22
66	M	benzene	0.911	0.990	-8.7	103	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.735	3.3	92	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.597	-4.4	102	0.00	11.43
69	M	heptane	0.159	0.128	19.5	80	0.00	11.59
70	M	isopropyl acetate	0.368	0.366	0.5	98	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.357	-22.3#	116	0.00	11.35
72	M	trichloroethene	0.248	0.254	-2.4	101	0.00	12.06
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.060	-11.1	111	0.00	12.77
75	M	2-chloroethyl vinyl ether	0.113	0.111	1.8	87	0.00	12.80
76	M	methyl methacrylate	0.053	0.055	-3.8	95	0.00	12.33
77	M	1,2-dichloropropane	0.229	0.249	-8.7	103	0.00	12.30
78	M	dibromomethane	0.143	0.162	-13.3	106	0.00	12.43
79	M	methylcyclohexane	0.368	0.342	7.1	87	0.00	12.31
80	M	bromodichloromethane	0.326	0.361	-10.7	108	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.370	2.4	94	0.00	13.01
82	S	toluene-d8 (s)	1.065	1.119	-5.1	103	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.073	0.0	96	0.00	13.12
84	M	toluene	0.585	0.566	3.2	98	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.007#	0.0	98	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.330	-0.3	95	0.00	13.53
87	M	ethyl methacrylate	0.250	0.229	8.4	88	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.174	-4.2	99	0.00	13.73
89	M	2-hexanone	0.061	0.052	14.8	79	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	14.70
91	m	n-butyl ether	1.114	0.996	10.6	87	0.00	14.69
92	M	tetrachloroethene	0.300	0.319	-6.3	108	0.00	13.93
93	M	1,3-dichloropropane	0.390	0.371	4.9	95	0.00	13.90
94	M	butyl acetate	0.136	0.123	9.6	89	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.014	17.6	82	0.00	14.06
96	M	dibromochloromethane	0.333	0.338	-1.5	102	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.249	5.3	94	0.00	14.29
98	M	chlorobenzene	0.740	0.748	-1.1	100	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.321	-6.6	108	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R **Sample:** V2B5989-CC5926
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2B134395.D
Project: BMSMC, Former Tank Farm, PR

100	M	ethylbenzene	1.197	1.196	0.1	97	0.00	14.80
101	M	m,p-xylene	0.475	0.479	-0.8	97	0.00	14.90
102	M	o-xylene	0.500	0.474	5.2	94	0.00	15.28
103	M	styrene	0.802	0.776	3.2	92	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.249	-3.3	104	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	16.86
107	M	isopropylbenzene	2.262	2.278	-0.7	91	0.00	15.61
108	S	4-bromofluorobenzene (s)	0.839	0.872	-3.9	99	0.00	15.77
109	M	cyclohexanone	0.017	0.006#	64.7#	34#	0.00	15.73
110	M	bromobenzene	0.682	0.726	-6.5	97	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.580	-7.4	98	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.116	12.1	83	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.156	-11.4	103	0.00	15.92
114	M	n-propylbenzene	2.415	2.565	-6.2	96	0.00	15.99
115	M	2-chlorotoluene	0.582	0.606	-4.1	96	0.00	16.11
116	M	4-chlorotoluene	1.551	1.634	-5.4	96	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	2.042	-11.5	100	0.00	16.12
118	M	tert-butylbenzene	1.649	1.657	-0.5	93	0.00	16.45
119	M	pentachloroethane	0.450	0.505	-12.2	106	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	1.994	-11.5	99	0.00	16.48
121	M	sec-butylbenzene	2.434	2.479	-1.8	92	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.359	-6.7	99	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.172	-2.2	93	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.290	-3.0	98	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.287	-5.6	96	0.00	17.26
126	M	n-butylbenzene	1.028	0.997	3.0	90	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.118	11.3	85	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.122	4.1	88	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.812	15.9	76	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.620	-4.4	97	0.00	19.00
131	M	naphthalene	1.503	1.086	27.7#	64	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.665	16.8	76	0.00	19.39
133	M	hexachloroethane	0.458	0.496	-8.3	103	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Thu Sep 17 11:59:40 2015 ACC-VOA-CLN-05A

6.9.5

6

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5990-CC5926
Lab FileID: 2B134421.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b...989ms-5990\2B134421.D Vial: 3
Acq On    : 14 Sep 2015   9:27 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms90983,v2B5990,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	102	-0.01	8.36
2	M	tertiary butyl alcohol	1.166	0.994	14.8	82	-0.02	8.48
3		ethanol	0.120	0.092	23.3#	79	0.00	6.91
4	M	1,4-dioxane	0.103	0.087	15.5	84	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.259	11.6	87	0.00	4.50
10	M	dichlorodifluoromethane	0.437	0.356	18.5	81	0.00	4.48
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.329	18.8	81	0.00	4.87
13	M	vinyl chloride	0.366	0.327	10.7	86	0.01	5.17
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.236	7.5	94	0.00	5.90
16	M	chloroethane	0.165	0.153	7.3	91	0.01	6.12
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.519	-16.6	112	0.00	6.67
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.130	6.5	94	0.00	7.15
21	M	acrolein	0.044	0.035	20.5#	79	0.00	7.37
22		2-chloropropane	0.488	0.456	6.6	97	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.221	8.3	91	0.00	7.60
25	M	acetone	0.070	0.073	-4.3	99	0.00	7.63
26	M	allyl chloride	0.130	0.114	12.3	86	0.00	8.20
27	M	acetonitrile	0.015	0.013	13.3	88	0.00	8.10
28	M	iodomethane	0.523	0.479	8.4	90	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	100	0.00	11.09
30	M	carbon disulfide	0.864	0.787	8.9	90	0.00	8.04
31	M	methylene chloride	0.277	0.257	7.2	93	0.00	8.38
32	M	methyl acetate	0.038	0.038	0.0	99	-0.01	8.18
33		1-chloropropane	0.461	0.427	7.4	93	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.654	1.8	94	0.00	8.81
35	M	trans-1,2-dichloroethene	0.270	0.251	7.0	91	0.00	8.83
36	M	di-isopropyl ether	0.808	0.726	10.1	86	0.00	9.49
37	M	2-butanone	0.026	0.024	7.7	93	0.00	10.21
38	M	1,1-dichloroethane	0.450	0.431	4.2	91	0.00	9.44
39	M	chloroprene	0.360	0.337	6.4	93	0.00	9.58
40	M	acrylonitrile	0.085	0.078	8.2	90	0.00	8.73
41	M	vinyl acetate	0.044	0.031	29.5#	71	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R **Sample:** V2B5990-CC5926
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2B134421.D
Project: BMSMC, Former Tank Farm, PR

42	M	ethyl tert-butyl ether	0.708	0.674	4.8	93	0.00	9.99
43	M	ethyl acetate	0.030	0.027	10.0	94	0.00	10.25
44	M	2,2-dichloropropane	0.400	0.400	0.0	97	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.266	11.3	87	0.00	10.23
46	M	propionitrile	0.030	0.030	0.0	94	0.00	10.27
47	M	bromochloromethane	0.151	0.148	2.0	95	0.00	10.55
48	M	tetrahydrofuran	0.065	0.057	12.3	91	0.00	10.62
49	M	chloroform	0.464	0.450	3.0	95	0.00	10.62
50		t-butyl formate	0.173	0.160	7.5	91	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.325	2.1	98	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.371	-8.8	111	0.00	11.25
53	M	freon 113	0.214	0.220	-2.8	99	0.00	7.61
54	M	methacrylonitrile	0.138	0.126	8.7	93	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.409	-1.7	99	0.00	10.91
56	M	Cyclohexane	0.362	0.341	5.8	91	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.019	-5.6	94	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	92	0.00	11.82
63	M	carbon tetrachloride	0.347	0.418	-20.5#	106	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.328	-5.5	95	0.00	11.09
65	M	hexane	0.323	0.253	21.7#	68	0.00	9.22
66	M	benzene	0.911	0.933	-2.4	88	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.804	-5.8	91	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.623	-8.9	96	0.00	11.42
69	M	heptane	0.159	0.148	6.9	83	0.00	11.59
70	M	isopropyl acetate	0.368	0.367	0.3	89	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.353	-20.9#	103	0.00	11.34
72	M	trichloroethene	0.248	0.255	-2.8	91	0.00	12.06
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.065	-20.4#	107	0.00	12.76
75	M	2-chloroethyl vinyl ether	0.113	0.108	4.4	76	0.00	12.80
76	M	methyl methacrylate	0.053	0.056	-5.7	88	0.00	12.32
77	M	1,2-dichloropropane	0.229	0.234	-2.2	87	0.00	12.30
78	M	dibromomethane	0.143	0.158	-10.5	93	0.00	12.43
79	M	methylcyclohexane	0.368	0.368	0.0	85	0.00	12.31
80	M	bromodichloromethane	0.326	0.354	-8.6	96	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.377	0.5	87	0.00	13.00
82	S	toluene-d8 (s)	1.065	1.131	-6.2	94	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.076	-4.1	90	0.00	13.11
84	M	toluene	0.585	0.553	5.5	87	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.008#	-14.3	93	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.346	-5.2	90	0.00	13.53
87	M	ethyl methacrylate	0.250	0.247	1.2	86	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.168	-0.6	87	0.00	13.73
89	M	2-hexanone	0.061	0.058	4.9	80	0.00	13.90
90	I	chlorobenzene-d5	1.000	1.000	0.0	90	0.00	14.70
91	m	n-butyl ether	1.114	1.005	9.8	79	0.00	14.69
92	M	tetrachloroethene	0.300	0.321	-7.0	98	0.00	13.92
93	M	1,3-dichloropropane	0.390	0.362	7.2	83	0.00	13.90
94	M	butyl acetate	0.136	0.126	7.4	82	0.00	13.98
95		3,3-dimethyl-1-butanol	0.017	0.016	5.9	82	0.00	14.06
96	M	dibromochloromethane	0.333	0.343	-3.0	93	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.250	4.9	85	0.00	14.29
98	M	chlorobenzene	0.740	0.739	0.1	89	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.320	-6.3	97	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5990-CC5926
Lab FileID: 2B134421.D

100	M	ethylbenzene	1.197	1.196	0.1	88	0.00	14.80
101	M	m,p-xylene	0.475	0.473	0.4	86	0.00	14.90
102	M	o-xylene	0.500	0.481	3.8	86	0.00	15.28
103	M	styrene	0.802	0.773	3.6	82	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.258	-7.1	97	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	16.86
107	M	isopropylbenzene	2.262	2.350	-3.9	86	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.874	-4.2	90	0.00	15.77
109	M	cyclohexanone	0.017	0.014	17.6	71	0.00	15.73
110	M	bromobenzene	0.682	0.724	-6.2	88	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.549	-1.7	85	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.138	-4.5	91	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.152	-8.6	91	0.00	15.92
114	M	n-propylbenzene	2.415	2.548	-5.5	87	0.00	15.98
115	M	2-chlorotoluene	0.582	0.570	2.1	82	0.00	16.11
116	M	4-chlorotoluene	1.551	1.624	-4.7	88	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	2.008	-9.6	90	0.00	16.12
118	M	tert-butylbenzene	1.649	1.706	-3.5	87	0.00	16.45
119	M	pentachloroethane	0.450	0.500	-11.1	96	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	1.983	-10.9	90	0.00	16.48
121	M	sec-butylbenzene	2.434	2.554	-4.9	87	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.326	-4.1	89	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.239	-5.3	88	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.270	-1.4	88	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.278	-4.8	87	0.00	17.26
126	M	n-butylbenzene	1.028	1.013	1.5	83	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.128	3.8	84	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.189	-1.6	86	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.904	6.3	78	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.657	-10.6	94	0.00	19.00
131	M	naphthalene	1.503	1.268	15.6	69	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.724	9.4	76	0.00	19.38
133	M	hexachloroethane	0.458	0.517	-12.9	98	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Mon Sep 14 16:21:39 2015 ACC-VOA-CLN-05A

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5992-CC5926
Lab FileID: 2B134468.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5992\2B134468.D      Vial: 2
Acq On    : 15 Sep 2015   8:55 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms91079,v2B5992,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	95	-0.01	8.36
2	M	tertiary butyl alcohol	1.166	0.969	16.9	75	-0.01	8.49
3		ethanol	0.120	0.095	20.8#	77	0.00	6.91
4	M	1,4-dioxane	0.103	0.083	19.4	75	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	95	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.274	6.5	87	0.00	4.50
10	M	dichlorodifluoromethane	0.437	0.461	-5.5	99	0.00	4.49
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.366	9.6	85	0.00	4.87
13	M	vinyl chloride	0.366	0.359	1.9	89	0.00	5.16
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.250	2.0	95	0.01	5.91
16	M	chloroethane	0.165	0.163	1.2	91	0.02	6.12
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.552	-24.0#	112	0.00	6.67
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.127	8.6	86	0.00	7.15
21	M	acrolein	0.044	0.043	2.3	90	0.00	7.38
22		2-chloropropane	0.488	0.470	3.7	94	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.228	5.4	88	0.00	7.60
25	M	acetone	0.070	0.070	0.0	90	0.00	7.63
26	M	allyl chloride	0.130	0.116	10.8	82	0.00	8.20
27	M	acetonitrile	0.015	0.014	6.7	84	0.00	8.10
28	M	iodomethane	0.523	0.486	7.1	86	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	91	0.00	11.09
30	M	carbon disulfide	0.864	0.803	7.1	86	0.00	8.04
31	M	methylene chloride	0.277	0.253	8.7	86	0.00	8.38
32	M	methyl acetate	0.038	0.037	2.6	92	0.00	8.19
33		1-chloropropane	0.461	0.433	6.1	89	0.00	8.46
34	M	methyl tert butyl ether	0.666	0.663	0.5	90	0.00	8.81
35	M	trans-1,2-dichloroethene	0.270	0.250	7.4	86	0.00	8.83
36	M	di-isopropyl ether	0.808	0.714	11.6	80	0.00	9.50
37	M	2-butanone	0.026	0.024	7.7	88	0.00	10.20
38	M	1,1-dichloroethane	0.450	0.436	3.1	87	0.00	9.44
39	M	chloroprene	0.360	0.330	8.3	86	0.00	9.58
40	M	acrylonitrile	0.085	0.078	8.2	85	0.00	8.73
41	M	vinyl acetate	0.044	0.031	29.5#	68	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5992-CC5926
Lab FileID: 2B134468.D

42	M	ethyl tert-butyl ether	0.708	0.664	6.2	86	0.00	9.99
43	M	ethyl acetate	0.030	0.026	13.3	86	0.00	10.25
44	M	2,2-dichloropropane	0.400	0.427	-6.7	98	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.276	8.0	85	0.00	10.23
46	M	propionitrile	0.030	0.030	0.0	90	0.00	10.27
47	M	bromochloromethane	0.151	0.147	2.6	89	0.00	10.55
48	M	tetrahydrofuran	0.065	0.065	0.0	97	0.00	10.62
49	M	chloroform	0.464	0.464	0.0	92	0.00	10.62
50		t-butyl formate	0.173	0.157	9.2	85	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.329	0.9	94	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.374	-9.7	105	0.00	11.25
53	M	freon 113	0.214	0.224	-4.7	95	0.01	7.62
54	M	methacrylonitrile	0.138	0.123	10.9	85	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.434	-8.0	99	0.00	10.92
56	M	Cyclohexane	0.362	0.338	6.6	85	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	86	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.019	-5.6	88	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	85	0.00	11.83
63	M	carbon tetrachloride	0.347	0.431	-24.2#	105	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.329	-5.8	92	0.00	11.10
65	M	hexane	0.323	0.219	32.2#	57	0.00	9.23
66	M	benzene	0.911	0.938	-3.0	85	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.746	1.8	81	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.593	-3.7	88	0.00	11.42
69	M	heptane	0.159	0.138	13.2	75	0.00	11.59
70	M	isopropyl acetate	0.368	0.357	3.0	83	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.359	-22.9#	101	0.00	11.34
72	M	trichloroethene	0.248	0.259	-4.4	90	0.00	12.05
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.062	-14.8	98	0.00	12.76
75	M	2-chloroethyl vinyl ether	0.113	0.111	1.8	75	0.00	12.80
76	M	methyl methacrylate	0.053	0.053	0.0	81	0.00	12.33
77	M	1,2-dichloropropane	0.229	0.229	0.0	82	0.00	12.30
78	M	dibromomethane	0.143	0.158	-10.5	90	0.00	12.43
79	M	methylcyclohexane	0.368	0.349	5.2	78	0.00	12.31
80	M	bromodichloromethane	0.326	0.366	-12.3	95	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.374	1.3	83	0.00	13.00
82	S	toluene-d8 (s)	1.065	1.118	-5.0	89	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.070	4.1	81	0.00	13.11
84	M	toluene	0.585	0.548	6.3	83	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.007#	0.0	85	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.338	-2.7	85	0.00	13.53
87	M	ethyl methacrylate	0.250	0.238	4.8	79	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.168	-0.6	83	0.00	13.73
89	M	2-hexanone	0.061	0.055	9.8	73	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	86	0.00	14.70
91	m	n-butyl ether	1.114	0.976	12.4	73	0.00	14.69
92	M	tetrachloroethene	0.300	0.324	-8.0	95	0.00	13.93
93	M	1,3-dichloropropane	0.390	0.364	6.7	80	0.00	13.90
94	M	butyl acetate	0.136	0.125	8.1	78	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.015	11.8	75	0.00	14.06
96	M	dibromochloromethane	0.333	0.354	-6.3	92	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.251	4.6	82	0.00	14.29
98	M	chlorobenzene	0.740	0.740	0.0	85	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.328	-9.0	95	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R **Sample:** V2B5992-CC5926
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2B134468.D
Project: BMSMC, Former Tank Farm, PR

100	M	ethylbenzene	1.197	1.222	-2.1	86	0.00	14.80
101	M	m,p-xylene	0.475	0.478	-0.6	83	0.00	14.90
102	M	o-xylene	0.500	0.474	5.2	81	0.00	15.28
103	M	styrene	0.802	0.782	2.5	80	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.261	-8.3	94	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	16.86
107	M	isopropylbenzene	2.262	2.343	-3.6	83	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.884	-5.4	88	0.00	15.77
109	M	cyclohexanone	0.017	0.006#	64.7#	31#	0.00	15.73
110	M	bromobenzene	0.682	0.730	-7.0	86	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.544	-0.7	81	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.115	12.9	73	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.152	-8.6	88	0.00	15.92
114	M	n-propylbenzene	2.415	2.557	-5.9	85	0.00	15.98
115	M	2-chlorotoluene	0.582	0.574	1.4	80	0.00	16.11
116	M	4-chlorotoluene	1.551	1.639	-5.7	85	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	2.012	-9.8	87	0.00	16.12
118	M	tert-butylbenzene	1.649	1.694	-2.7	84	0.00	16.45
119	M	pentachloroethane	0.450	0.496	-10.2	92	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	1.987	-11.1	88	0.00	16.48
121	M	sec-butylbenzene	2.434	2.502	-2.8	82	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.352	-6.1	87	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.218	-4.3	84	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.274	-1.7	85	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.272	-4.3	84	0.00	17.25
126	M	n-butylbenzene	1.028	1.014	1.4	81	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.126	5.3	80	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.169	0.1	81	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.886	8.2	74	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.675	-13.6	94	0.00	19.00
131	M	naphthalene	1.503	1.244	17.2	65	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.724	9.4	73	0.00	19.38
133	M	hexachloroethane	0.458	0.509	-11.1	94	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Tue Sep 15 15:31:38 2015 ACC-VOA-CLN-05A

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5994-CC5926
Lab FileID: 2B134517.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5994\2B134517.D      Vial: 2
Acq On    : 16 Sep 2015   9:02 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms91006,v2B5994,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Wed Jul 29 16:45:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	82	-0.01	8.36
2	M	tertiary butyl alcohol	1.166	0.946	18.9	63	-0.01	8.49
3		ethanol	0.120	0.103	14.2	72	0.00	6.91
4	M	1,4-dioxane	0.103	0.086	16.5	67	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	86	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.271	7.5	78	0.00	4.50
10	M	dichlorodifluoromethane	0.437	0.459	-5.0	90	0.00	4.49
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.348	14.1	73	0.00	4.87
13	M	vinyl chloride	0.366	0.346	5.5	78	0.01	5.17
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.245	3.9	84	0.01	5.91
16	M	chloroethane	0.165	0.162	1.8	82	0.01	6.12
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.584	-31.2#	108	0.00	6.67
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.124	10.8	77	0.00	7.15
21	M	acrolein	0.044	0.039	11.4	74	0.00	7.38
22		2-chloropropane	0.488	0.461	5.5	84	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.216	10.4	76	0.00	7.60
25	M	acetone	0.070	0.067	4.3	79	0.00	7.63
26	M	allyl chloride	0.130	0.111	14.6	72	0.00	8.19
27	M	acetonitrile	0.015	0.013	13.3	75	0.00	8.10
28	M	iodomethane	0.523	0.483	7.6	78	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	86	0.00	11.10
30	M	carbon disulfide	0.864	0.809	6.4	79	0.00	8.04
31	M	methylene chloride	0.277	0.267	3.6	83	0.00	8.38
32	M	methyl acetate	0.038	0.038	0.0	84	-0.02	8.18
33		1-chloropropane	0.461	0.433	6.1	81	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.661	0.8	82	0.00	8.82
35	M	trans-1,2-dichloroethene	0.270	0.256	5.2	80	0.00	8.83
36	M	di-isopropyl ether	0.808	0.673	16.7	69	0.00	9.49
37	M	2-butanone	0.026	0.023	11.5	75	0.00	10.21
38	M	1,1-dichloroethane	0.450	0.441	2.0	80	0.00	9.44
39	M	chloroprene	0.360	0.331	8.1	79	0.00	9.57
40	M	acrylonitrile	0.085	0.074	12.9	73	0.00	8.73
41	M	vinyl acetate	0.044	0.028	36.4#	56	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5994-CC5926
Lab FileID: 2B134517.D

42	M	ethyl tert-butyl ether	0.708	0.629	11.2	74	0.00	9.99
43	M	ethyl acetate	0.030	0.025	16.7	75	0.00	10.26
44	M	2,2-dichloropropane	0.400	0.436	-9.0	91	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.270	10.0	76	0.00	10.23
46	M	propionitrile	0.030	0.029	3.3	80	0.00	10.28
47	M	bromochloromethane	0.151	0.155	-2.6	85	0.00	10.55
48	M	tetrahydrofuran	0.065	0.050	23.1#	68	0.00	10.62
49	M	chloroform	0.464	0.478	-3.0	87	0.00	10.62
50		t-butyl formate	0.173	0.149	13.9	73	0.00	10.69
51	S	dibromofluoromethane (s)	0.332	0.335	-0.9	87	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.379	-11.1	97	0.00	11.25
53	M	freon 113	0.214	0.231	-7.9	89	0.01	7.62
54	M	methacrylonitrile	0.138	0.114	17.4	72	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.451	-12.2	94	0.00	10.91
56	M	Cyclohexane	0.362	0.343	5.2	79	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	79	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.017	5.6	75	0.00	12.90
62	M	n-butyl alcohol	0.005	0.004#	20.0	72	0.00	11.82
63	M	carbon tetrachloride	0.347	0.449	-29.4#	100	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.334	-7.4	85	0.00	11.10
65	M	hexane	0.323	0.194	39.9#	46#	0.00	9.23
66	M	benzene	0.911	0.927	-1.8	77	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.732	3.7	73	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.594	-3.8	81	0.00	11.42
69	M	heptane	0.159	0.134	15.7	66	0.00	11.59
70	M	isopropyl acetate	0.368	0.336	8.7	72	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.372	-27.4#	96	0.00	11.34
72	M	trichloroethene	0.248	0.255	-2.8	81	0.00	12.06
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.060	-11.1	88	0.00	12.77
75	M	2-chloroethyl vinyl ether	0.113	0.103	8.8	64	0.00	12.80
76	M	methyl methacrylate	0.053	0.057	-7.5	79	0.00	12.32
77	M	1,2-dichloropropane	0.229	0.228	0.4	75	0.00	12.30
78	M	dibromomethane	0.143	0.162	-13.3	84	0.00	12.43
79	M	methylcyclohexane	0.368	0.342	7.1	69	0.00	12.31
80	M	bromodichloromethane	0.326	0.368	-12.9	88	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.361	4.7	73	0.00	13.01
82	S	toluene-d8 (s)	1.065	1.101	-3.4	81	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.068	6.8	71	0.00	13.11
84	M	toluene	0.585	0.555	5.1	76	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.007#	0.0	75	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.335	-1.8	77	0.00	13.53
87	M	ethyl methacrylate	0.250	0.231	7.6	71	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.165	1.2	75	0.00	13.73
89	M	2-hexanone	0.061	0.052	14.8	64	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	79	0.00	14.70
91	m	n-butyl ether	1.114	0.945	15.2	65	0.00	14.69
92	M	tetrachloroethene	0.300	0.321	-7.0	86	0.00	13.93
93	M	1,3-dichloropropane	0.390	0.367	5.9	74	0.00	13.90
94	M	butyl acetate	0.136	0.112	17.6	64	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.014	17.6	63	0.00	14.06
96	M	dibromochloromethane	0.333	0.366	-9.9	87	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.247	6.1	74	0.00	14.29
98	M	chlorobenzene	0.740	0.757	-2.3	79	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.337	-12.0	89	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5994-CC5926
Lab FileID: 2B134517.D

100	M	ethylbenzene	1.197	1.220	-1.9	78	0.00	14.80
101	M	m,p-xylene	0.475	0.481	-1.3	77	0.00	14.90
102	M	o-xylene	0.500	0.479	4.2	75	0.00	15.28
103	M	styrene	0.802	0.779	2.9	72	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.270	-12.0	89	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	16.86
107	M	isopropylbenzene	2.262	2.308	-2.0	74	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.877	-4.5	80	0.00	15.77
109	M	cyclohexanone	0.017	0.008#	52.9#	34#	0.00	15.73
110	M	bromobenzene	0.682	0.736	-7.9	79	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.541	-0.2	73	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.132	0.0	77	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.156	-11.4	82	0.00	15.92
114	M	n-propylbenzene	2.415	2.623	-8.6	79	0.00	15.99
115	M	2-chlorotoluene	0.582	0.589	-1.2	75	0.00	16.11
116	M	4-chlorotoluene	1.551	1.680	-8.3	80	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	2.101	-14.7	83	0.00	16.12
118	M	tert-butylbenzene	1.649	1.713	-3.9	77	0.00	16.45
119	M	pentachloroethane	0.450	0.530	-17.8	90	0.00	16.51
120	M	1,2,4-trimethylbenzene	1.788	2.043	-14.3	82	0.00	16.48
121	M	sec-butylbenzene	2.434	2.537	-4.2	76	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.380	-8.3	81	0.00	16.81
123	M	p-isopropyltoluene	2.126	2.265	-6.5	78	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.347	-7.5	82	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.300	-6.6	78	0.00	17.26
126	M	n-butylbenzene	1.028	1.030	-0.2	74	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.125	6.0	73	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.176	-0.5	74	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.867	10.2	66	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.697	-17.3	88	0.00	19.00
131	M	naphthalene	1.503	1.150	23.5#	55	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.714	10.6	66	0.00	19.39
133	M	hexachloroethane	0.458	0.529	-15.5	88	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Thu Sep 17 16:50:18 2015 ACC-VOA-CLN-05A

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5996-CC5926
Lab FileID: 2B134550.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2b\v2b5996\2B134550.D      Vial: 2
Acq On    : 17 Sep 2015  10:37 am                    Operator: BridgetK
Sample    : cc5926-20                                Inst    : MS2B
Misc      : ms91224,v2B5996,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title        : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update  : Thu Sep 17 12:13:52 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	95	0.00	8.36
2	M	tertiary butyl alcohol	1.166	1.023	12.3	79	-0.01	8.49
3		ethanol	0.120	0.102	15.0	82	0.00	6.90
4	M	1,4-dioxane	0.103	0.086	16.5	78	0.00	12.41
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	10.81
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9	M	chlorodifluoromethane	0.293	0.307	-4.8	102	0.02	4.51
10	M	dichlorodifluoromethane	0.437	0.406	7.1	92	0.01	4.49
11	m	chlorotrifluoroethene		----------NA----------				
12	M	chloromethane	0.405	0.359	11.4	87	0.00	4.87
13	M	vinyl chloride	0.366	0.356	2.7	93	0.02	5.18
14		1,3-Butadiene		----------NA----------				
15	M	bromomethane	0.255	0.248	2.7	98	0.00	5.90
16	M	chloroethane	0.165	0.165	0.0	97	0.01	6.12
17		vinyl bromide		----------NA----------				
18	M	trichlorofluoromethane	0.445	0.586	-31.7#	125	0.01	6.69
19		Pentane		----------NA----------				
20	M	ethyl ether	0.139	0.126	9.4	90	0.00	7.15
21	M	acrolein	0.044	0.040	9.1	90	0.00	7.38
22		2-chloropropane	0.488	0.497	-1.8	105	0.00	7.34
23		1,2-dichloro-1,2,2-triflu		----------NA----------				
24	M	1,1-dichloroethene	0.241	0.222	7.9	91	0.00	7.60
25	M	acetone	0.070	0.076	-8.6	103	0.00	7.64
26	M	allyl chloride	0.130	0.118	9.2	88	0.00	8.20
27	M	acetonitrile	0.015	0.014	6.7	91	0.00	8.10
28	M	iodomethane	0.523	0.494	5.5	92	0.00	7.89
29	M	iso-butyl alcohol	0.003	0.003#	0.0	97	0.00	11.10
30	M	carbon disulfide	0.864	0.830	3.9	94	0.00	8.04
31	M	methylene chloride	0.277	0.256	7.6	91	0.00	8.38
32	M	methyl acetate	0.038	0.037	2.6	96	-0.01	8.18
33		1-chloropropane	0.461	0.459	0.4	99	0.00	8.45
34	M	methyl tert butyl ether	0.666	0.658	1.2	94	0.00	8.82
35	M	trans-1,2-dichloroethene	0.270	0.249	7.8	90	0.00	8.83
36	M	di-isopropyl ether	0.808	0.758	6.2	89	0.00	9.50
37	M	2-butanone	0.026	0.022	15.4	86	0.00	10.21
38	M	1,1-dichloroethane	0.450	0.448	0.4	94	0.00	9.44
39	M	chloroprene	0.360	0.357	0.8	98	0.00	9.58
40	M	acrylonitrile	0.085	0.077	9.4	88	0.00	8.73
41	M	vinyl acetate	0.044	0.028	36.4#	64	0.00	9.45

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2B5996-CC5926
Lab FileID: 2B134550.D

42	M	ethyl tert-butyl ether	0.708	0.673	4.9	92	0.00	9.99
43	M	ethyl acetate	0.030	0.027	10.0	93	0.00	10.26
44	M	2,2-dichloropropane	0.400	0.431	-7.7	104	0.00	10.26
45	M	cis-1,2-dichloroethene	0.300	0.269	10.3	87	0.00	10.23
46	M	propionitrile	0.030	0.029	3.3	92	0.00	10.28
47	M	bromochloromethane	0.151	0.147	2.6	93	0.00	10.55
48	M	tetrahydrofuran	0.065	0.055	15.4	85	0.00	10.62
49	M	chloroform	0.464	0.464	0.0	97	0.00	10.61
50		t-butyl formate	0.173	0.156	9.8	88	0.00	10.70
51	S	dibromofluoromethane (s)	0.332	0.334	-0.6	100	0.00	10.82
52	S	1,2-dichloroethane-d4 (s)	0.341	0.398	-16.7	118	0.00	11.25
53	M	freon 113	0.214	0.231	-7.9	103	0.00	7.61
54	M	methacrylonitrile	0.138	0.128	7.2	93	0.00	10.49
55	M	1,1,1-trichloroethane	0.402	0.436	-8.5	104	0.00	10.92
56	M	Cyclohexane	0.362	0.340	6.1	90	0.00	11.02
57		tert amyl alcohol		----------NA----------				
58	I	1,4-difluorobenzene	1.000	1.000	0.0	90	0.00	11.72
59		tert amyl ethyl ether		----------NA----------				
60	M	Di-isobutylene		----------NA----------				
61	M	epichlorohydrin	0.018	0.019	-5.6	91	0.00	12.90
62	M	n-butyl alcohol	0.005	0.005#	0.0	88	0.00	11.82
63	M	carbon tetrachloride	0.347	0.443	-27.7#	113	0.00	11.13
64	M	1,1-dichloropropene	0.311	0.336	-8.0	97	0.00	11.10
65	M	hexane	0.323	0.237	26.6#	64	0.00	9.23
66	M	benzene	0.911	0.938	-3.0	89	0.00	11.36
67		2,2,4-trimethylpentane	0.760	0.792	-4.2	90	0.00	11.42
68	M	tert-amyl methyl ether	0.572	0.611	-6.8	95	0.00	11.42
69	M	heptane	0.159	0.147	7.5	83	0.00	11.58
70	M	isopropyl acetate	0.368	0.370	-0.5	90	0.00	11.30
71	M	1,2-dichloroethane	0.292	0.372	-27.4#	109	0.00	11.34
72	M	trichloroethene	0.248	0.259	-4.4	93	0.00	12.06
73		ethyl acrylate		----------NA----------				
74	M	2-nitropropane	0.054	0.063	-16.7	105	0.00	12.77
75	M	2-chloroethyl vinyl ether	0.113	0.109	3.5	77	0.00	12.80
76	M	methyl methacrylate	0.053	0.054	-1.9	85	0.00	12.32
77	M	1,2-dichloropropane	0.229	0.233	-1.7	87	0.00	12.30
78	M	dibromomethane	0.143	0.161	-12.6	95	0.00	12.43
79	M	methylcyclohexane	0.368	0.357	3.0	83	0.00	12.31
80	M	bromodichloromethane	0.326	0.370	-13.5	101	0.00	12.56
81	M	cis-1,3-dichloropropene	0.379	0.377	0.5	87	0.00	13.01
82	S	toluene-d8 (s)	1.065	1.104	-3.7	92	0.00	13.30
83	M	4-methyl-2-pentanone	0.073	0.071	2.7	85	0.00	13.11
84	M	toluene	0.585	0.548	6.3	86	0.00	13.37
85	M	3-methyl-1-butanol	0.007	0.008#	-14.3	91	0.00	13.11
86	M	trans-1,3-dichloropropene	0.329	0.339	-3.0	89	0.00	13.53
87	M	ethyl methacrylate	0.250	0.232	7.2	81	0.00	13.55
88	M	1,1,2-trichloroethane	0.167	0.169	-1.2	87	0.00	13.73
89	M	2-hexanone	0.061	0.056	8.2	78	0.00	13.91
90	I	chlorobenzene-d5	1.000	1.000	0.0	90	0.00	14.70
91	m	n-butyl ether	1.114	0.999	10.3	78	0.00	14.69
92	M	tetrachloroethene	0.300	0.320	-6.7	98	0.00	13.92
93	M	1,3-dichloropropane	0.390	0.362	7.2	83	0.00	13.90
94	M	butyl acetate	0.136	0.124	8.8	81	0.00	13.99
95		3,3-dimethyl-1-butanol	0.017	0.015	11.8	78	0.00	14.06
96	M	dibromochloromethane	0.333	0.354	-6.3	96	0.00	14.14
97	M	1,2-dibromoethane	0.263	0.253	3.8	86	0.00	14.29
98	M	chlorobenzene	0.740	0.721	2.6	87	0.00	14.73
99	M	1,1,1,2-tetrachloroethane	0.301	0.324	-7.6	98	0.00	14.79

Continuing Calibration Summary

Job Number: JC3254R **Sample:** V2B5996-CC5926
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2B134550.D
Project: BMSMC, Former Tank Farm, PR

100	M	ethylbenzene	1.197	1.185	1.0	87	0.00	14.80
101	M	m,p-xylene	0.475	0.467	1.7	85	0.00	14.90
102	M	o-xylene	0.500	0.473	5.4	84	0.00	15.28
103	M	styrene	0.802	0.748	6.7	80	0.00	15.28
104		butyl acrylate		----------NA----------				
105	M	bromoform	0.241	0.268	-11.2	101	0.00	15.50
106	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	16.86
107	M	isopropylbenzene	2.262	2.288	-1.1	85	0.00	15.60
108	S	4-bromofluorobenzene (s)	0.839	0.862	-2.7	91	0.00	15.77
109	M	cyclohexanone	0.017	0.013	23.5#	64	0.00	15.73
110	M	bromobenzene	0.682	0.708	-3.8	88	0.00	15.95
111	M	1,1,2,2-tetrachloroethane	0.540	0.533	1.3	84	0.00	15.84
112	M	trans-1,4-dichloro-2-bute	0.132	0.129	2.3	87	0.00	15.89
113	M	1,2,3-trichloropropane	0.140	0.155	-10.7	95	0.00	15.92
114	M	n-propylbenzene	2.415	2.527	-4.6	88	0.00	15.98
115	M	2-chlorotoluene	0.582	0.584	-0.3	86	0.00	16.11
116	M	4-chlorotoluene	1.551	1.604	-3.4	88	0.00	16.20
117	M	1,3,5-trimethylbenzene	1.832	1.970	-7.5	90	0.00	16.12
118	M	tert-butylbenzene	1.649	1.657	-0.5	86	0.00	16.45
119	M	pentachloroethane	0.450	0.516	-14.7	101	0.00	16.50
120	M	1,2,4-trimethylbenzene	1.788	1.957	-9.5	91	0.00	16.48
121	M	sec-butylbenzene	2.434	2.440	-0.2	84	0.00	16.65
122	M	1,3-dichlorobenzene	1.274	1.300	-2.0	88	0.00	16.80
123	M	p-isopropyltoluene	2.126	2.181	-2.6	87	0.00	16.76
124	M	1,4-dichlorobenzene	1.253	1.241	1.0	87	0.00	16.88
125	M	1,2-dichlorobenzene	1.219	1.247	-2.3	87	0.00	17.26
126	M	n-butylbenzene	1.028	1.002	2.5	84	0.00	17.16
127	M	1,2-dibromo-3-chloropropa	0.133	0.124	6.8	83	0.00	18.00
128		1,3,5-trichlorobenzene	1.170	1.165	0.4	85	0.00	18.22
129	M	1,2,4-trichlorobenzene	0.965	0.876	9.2	77	0.00	18.86
130	M	hexachlorobutadiene	0.594	0.655	-10.3	95	0.00	19.00
131	M	naphthalene	1.503	1.188	21.0#	66	0.00	19.14
132	M	1,2,3-trichlorobenzene	0.799	0.702	12.1	74	0.00	19.38
133	M	hexachloroethane	0.458	0.511	-11.6	99	0.00	17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2B132814.D M2B5926.M Thu Sep 17 16:17:37 2015 ACC-VOA-CLN-05A

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICC6180
Lab FileID: 2D147250.D

Response Factor Report MS2D

Method : C:\MSDCHEM\1\METHODS\M2D6180.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Aug 17 10:01:12 2015
Response via : Initial Calibration

Calibration Files
1 =2D147245.D 2 =2D147246.D 100 =2D147251.D 50 =2D147250.D
20 =2D147249.D 200 =2D147252.D 5 =2D147247.D 0.5 =2D147244.D
10 =2D147248.D 0.2 =2D147243.D = =

Compound

	1	2	100	50	20	200	5	0.5	10	0.2	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) tertiary butyl alcohol	1.583	1.167	1.189	1.234	1.060	1.314		1.259		1.258		13.04
3) ethyl alcohol	0.195	0.170	0.133	0.142	0.146	0.119	0.150	0.150		0.151		15.38
4) 1,4-dioxane	0.126	0.120	0.120	0.127	0.108	0.126		0.126		0.122		5.56
5) I pentafluorobenzene ----------ISTD----------												
6) chlorodifluoromethane	0.388	0.389	0.421	0.403	0.390	0.406	0.380	0.401		0.397		3.21
7) dichlorodifluoromethane	0.497	0.459	0.543	0.521	0.521	0.555	0.515	0.439	0.551	0.437	0.504	8.84
8) chloromethane	0.588	0.535	0.579	0.568	0.561	0.567	0.575	0.687	0.586		0.583	7.25
9) vinyl chloride	0.512	0.467	0.526	0.518	0.505	0.522	0.486	0.536	0.531	0.492	0.509	4.33
10) bromomethane	0.379	0.338	0.307	0.316	0.318	0.275	0.339	0.383		0.332		10.89
11) chloroethane	0.250	0.233	0.222	0.220	0.218	0.206	0.230	0.233		0.227		5.75
12) trichlorofluoromethane	0.641	0.570	0.634	0.617	0.612	0.626	0.613	0.657	0.656	0.468	0.609	9.14
13) ethyl ether	0.174	0.170	0.166	0.169	0.169	0.167	0.159	0.180		0.169		3.50
14) acrolein	0.060	0.060	0.059	0.061	0.060	0.059	0.057	0.061		0.060		2.26
15) 1,1-dichloroethene	0.361	0.338	0.310	0.309	0.310	0.306	0.311	0.343		0.323		6.40
16) 2-chloropropane	0.723	0.654	0.658	0.675	0.655	0.626		0.701		0.671		4.82
17) acetone	0.024	0.023	0.024	0.023	0.022			0.027		0.024		6.16
18) allyl chloride	0.193	0.173	0.174	0.178	0.180	0.173	0.171	0.188	0.179		0.179	4.16
19) acetonitrile	0.028	0.028	0.028	0.027	0.030			0.029		0.028		3.56
20) iodomethane	0.780	0.699	0.708	0.715	0.705	0.698	0.679	0.693	0.735	0.734	0.715	4.04
21) carbon disulfide	1.202	1.140	1.133	1.136	1.138	1.124	1.073	1.272	1.177	1.275	1.167	5.59
22) methylene chloride	0.394	0.389	0.369	0.378	0.374	0.362	0.364	0.391		0.378		3.29
23) methyl acetate												

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICC6180
Lab FileID: 2D147250.D

```
                  0.045 0.046 0.044 0.044 0.046       0.045        0.045    2.43
24)  1-chloropropane
                  0.030 0.030 0.032 0.028 0.029       0.037        0.031   10.23
25)  methyl tert butyl ether
      1.046 1.001 0.966 0.997 0.986 0.937 0.946 1.196 1.020 1.153  1.025    8.40
26)  trans-1,2-dichloroethene
      0.410 0.362 0.352 0.355 0.361 0.345 0.341       0.373        0.362    5.98
27)  di-isopropyl ether
      1.367 1.290 1.295 1.283 1.288 1.214 1.319 1.397 1.323 1.383  1.316    4.17
28)  2-butanone
                  0.031 0.031 0.032 0.031 0.028       0.032        0.031    5.37
29)  1,1-dichloroethane
      0.691 0.666 0.660 0.674 0.672 0.654 0.648 0.740 0.698 0.661  0.677    4.02
30)  chloroprene
      0.533 0.533 0.541 0.524 0.526 0.526 0.539 0.521 0.547 0.526  0.531    1.60
31)  acrylonitrile
      0.113 0.107 0.108 0.109 0.108 0.107 0.100 0.119 0.114 0.110  0.110    4.53
32)  vinyl acetate
                  0.050 0.053 0.050 0.050 0.051       0.051        0.051    2.16
33)  ethyl tert-butyl ether
      1.227 1.147 1.214 1.189 1.168 1.155 1.174 1.167 1.207 1.206  1.185    2.28
34)  ethyl acetate
                  0.040 0.039 0.041 0.037 0.043       0.043        0.040    5.23
35)  2,2-dichloropropane
      0.653 0.595 0.554 0.576 0.577 0.532 0.579 0.694 0.602        0.596    8.38
36)  cis-1,2-dichloroethene
      0.412 0.403 0.399 0.406 0.400 0.394 0.392       0.428        0.404    2.83
37)  propionitrile
      0.039 0.038 0.040 0.041 0.041 0.040 0.037 0.040 0.042        0.040    3.45
38)  tert-Butyl Formate
      0.372 0.315 0.325 0.326 0.326 0.319 0.315 0.318 0.334        0.328    5.37
39)  bromochloromethane
      0.186 0.209 0.203 0.208 0.209 0.202 0.194 0.235 0.217        0.207    6.72
40)  tetrahydrofuran
            0.087 0.085 0.086 0.091 0.082 0.093       0.094        0.088    4.91
41)  chloroform
      0.701 0.641 0.654 0.669 0.677 0.638 0.635 0.723 0.697        0.671    4.70
42)  dibromofluoromethane (s)
      0.349 0.353 0.351 0.354 0.346 0.349 0.358 0.349 0.355 0.347  0.351    1.08
43)  1,2-dichloroethane-d4 (s)
      0.359 0.362 0.364 0.371 0.369 0.357 0.371 0.361 0.363 0.359  0.364    1.43
44)  freon 113
      0.302 0.263 0.283 0.272 0.264 0.278 0.292 0.260 0.285        0.278    5.11
45)  methacrylonitrile
            0.110 0.115 0.115 0.118 0.116 0.106       0.119        0.114    4.00
46)  1,1,1-trichloroethane
      0.612 0.608 0.592 0.603 0.600 0.590 0.567 0.617 0.616        0.601    2.61
47)  cyclohexane
      0.493 0.514 0.502 0.496 0.490 0.504 0.484 0.543 0.520        0.505    3.61
48)  isobutyl alcohol
                  0.004 0.004 0.004 0.004 0.004       0.005        0.004    3.59
49)  iso-octane
      1.313 1.180 1.296 1.191 1.161 1.218 1.268 1.197 1.269 1.366  1.246    5.35

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  epichlorohydrin
            0.029 0.025 0.024 0.025 0.024 0.024       0.025        0.025    6.69
52)  n-butyl alcohol
            0.008 0.007 0.007 0.007 0.007 0.007       0.007        0.007    7.37
53)  carbon tetrachloride
```

6.9.10

6

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICC6180
Lab FileID: 2D147250.D

```
      0.494 0.496 0.463 0.473 0.463 0.455 0.461 0.499 0.515 0.564  0.488    6.83
54)  1,1-dichloropropene
      0.437 0.425 0.407 0.416 0.409 0.405 0.391 0.426 0.443 0.498  0.426    7.04
55)  hexane
                  0.046 0.043 0.043 0.045 0.049       0.046        0.045    4.86
56)  benzene
      1.330 1.235 1.188 1.212 1.229 1.158 1.159 1.413 1.270 1.456  1.265    8.18
57)  tert-amyl methyl ether
      0.241 0.216 0.207 0.203 0.205 0.197 0.211       0.217        0.212    6.27
58)  heptane
      0.225 0.202 0.210 0.191 0.188 0.200 0.205       0.205        0.203    5.65
59)  isopropyl acetate
                  0.522 0.509 0.514 0.503 0.514       0.513        0.512    1.22
60)  1,2-dichloroethane
      0.441 0.393 0.399 0.412 0.412 0.383 0.386 0.460 0.423        0.412    6.27
61)  trichloroethene
      0.368 0.346 0.348 0.347 0.342 0.345 0.332 0.363 0.357 0.342  0.349    3.14
62)  2-nitropropane
                                                                   0.000   -1.00
63)  2-chloroethyl vinyl ether
      0.201 0.179 0.181 0.173 0.179 0.169 0.169 0.170 0.176 0.152  0.175    7.06
64)  methyl methacrylate
      0.143 0.167 0.168 0.165 0.172 0.167 0.155 0.181 0.172        0.166    6.47
65)  1,2-dichloropropane
      0.357 0.328 0.327 0.331 0.342 0.317 0.311 0.370 0.350 0.373  0.340    6.25
66)  dibromomethane
      0.212 0.198 0.192 0.195 0.203 0.188 0.192 0.208 0.210 0.190  0.199    4.38
67)  methylcyclohexane
      0.521 0.524 0.518 0.489 0.471 0.507 0.514 0.525 0.520 0.505  0.509    3.39
68)  bromodichloromethane
      0.469 0.439 0.452 0.462 0.462 0.444 0.422 0.499 0.472 0.524  0.464    6.35
69)  cis-1,3-dichloropropene
      0.545 0.534 0.538 0.535 0.549 0.525 0.495 0.580 0.551 0.570  0.542    4.36
70)  toluene-d8 (s)
      1.088 1.098 1.104 1.084 1.093 1.095 1.087 1.072 1.091 1.066  1.088    1.04
71)  4-methyl-2-pentanone
            0.116 0.097 0.096 0.101 0.097 0.088       0.104        0.100    8.56
72)  toluene
      0.802 0.763 0.768 0.766 0.790 0.756 0.728 0.810 0.789 0.791  0.776    3.17
73)  3-methyl-1-butanol
            0.013 0.011 0.011 0.011 0.011 0.012       0.012        0.011    8.44
74)  trans-1,3-dichloropropene
      0.462 0.466 0.488 0.481 0.489 0.478 0.435 0.554 0.487 0.466  0.481    6.33
75)  ethyl methacrylate
      0.359 0.336 0.356 0.351 0.353 0.351 0.335 0.329 0.358        0.347    3.20
76)  1,1,2-trichloroethane
      0.242 0.240 0.232 0.229 0.235 0.226 0.214 0.236 0.239 0.237  0.233    3.55
77)  2-hexanone
            0.084 0.086 0.085 0.085 0.087 0.080       0.089        0.085    3.19

78) I   chlorobenzene-d5      ----------------ISTD---------------------
79)  3,3-Dimethyl-1-butanol
            0.035 0.028 0.028 0.027 0.028 0.030       0.029        0.029    9.22
80)  tetrachloroethene
      0.355 0.351 0.382 0.343 0.352 0.335 0.330 0.377 0.360 0.389  0.357    5.62
81)  1,3-dichloropropane
      0.515 0.489 0.469 0.477 0.499 0.455 0.461 0.579 0.498 0.514  0.496    7.27
82)  butyl acetate
            0.217 0.189 0.183 0.191 0.185 0.192       0.189        0.192    5.89
83)  dibromochloromethane
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICC6180
Lab FileID: 2D147250.D

```
      0.404 0.413 0.409 0.412 0.415 0.401 0.383 0.464 0.424 0.427  0.415    5.05
 84)  1,2-dibromoethane
      0.335 0.314 0.314 0.315 0.326 0.309 0.306 0.346 0.317 0.312  0.319    3.95
 85)  n-butyl ether
      1.689 1.563 1.593 1.626 1.653 1.573 1.520       1.670        1.611    3.64
 86)  chlorobenzene
      1.061 1.011 0.967 0.983 1.012 0.946 0.936 1.068 1.021 1.098  1.010    5.34
 87)  1,1,1,2-tetrachloroethane
      0.413 0.411 0.403 0.422 0.424 0.395 0.394 0.441 0.444 0.425  0.417    4.17
 88)  ethylbenzene
      1.774 1.678 1.604 1.638 1.700 1.560 1.571 1.813 1.740 1.892  1.697    6.40
 89)  m,p-xylene
      0.673 0.643 0.625 0.640 0.655 0.617 0.604 0.678 0.664 0.640  0.644    3.77
 90)  o-xylene
      0.731 0.665 0.660 0.673 0.686 0.650 0.643 0.719 0.692 0.615  0.673    5.21
 91)  styrene
      1.109 1.073 1.081 1.108 1.108 1.048 1.040 1.168 1.117 1.132  1.099    3.52
 92)  bromoform
      0.298 0.306 0.312 0.317 0.311 0.304 0.304 0.342 0.316        0.312    4.02

 93) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 94)  isopropylbenzene
      3.126 2.881 2.958 2.912 3.057 2.961 2.720 3.111 3.086 3.107  2.992    4.36
 95)  4-bromofluorobenzene (s)
      0.799 0.795 0.796 0.779 0.791 0.804 0.787 0.787 0.795 0.790  0.792    0.91
 96)  cyclohexanone *This compound does not meet initial calibration criteria*
            0.047 0.042 0.039 0.036 0.030 0.042       0.046        0.040   14.82
 97)  bromobenzene
      0.889 0.854 0.850 0.852 0.874 0.839 0.799 1.021 0.882 0.927  0.879    6.90
 98)  1,1,2,2-tetrachloroethane
      0.659 0.726 0.682 0.681 0.700 0.682 0.649 0.818 0.712 0.744  0.705    6.98
 99)  trans-1,4-dichloro-2-butene
      0.194 0.174 0.167 0.169 0.171 0.168 0.162       0.173        0.172    5.49
100)  1,2,3-trichloropropane
      0.198 0.171 0.170 0.169 0.178 0.165 0.171       0.184        0.176    6.03
101)  n-propylbenzene
      3.476 3.223 3.276 3.248 3.372 3.258 3.090 3.555 3.449 3.430  3.338    4.25
102)  2-chlorotoluene
      0.832 0.770 0.766 0.755 0.783 0.766 0.718 0.774 0.795 0.848  0.781    4.77
103)  4-chlorotoluene
      2.152 2.075 2.114 2.102 2.180 2.100 2.003 2.459 2.183        2.152    5.94
104)  1,3,5-trimethylbenzene
      2.705 2.536 2.513 2.499 2.637 2.517 2.365 2.659 2.660 2.847  2.594    5.20
105)  tert-butylbenzene
      2.394 2.167 2.262 2.235 2.302 2.282 2.024 2.421 2.370 2.570  2.302    6.49
106)  pentachloroethane
      0.614 0.577 0.487 0.581 0.611 0.576 0.534       0.605        0.573    7.56
107)  1,2,4-trimethylbenzene
      2.656 2.481 2.512 2.530 2.608 2.496 2.403 2.607 2.712 2.640  2.565    3.71
108)  sec-butylbenzene
      3.477 3.283 3.395 3.362 3.490 3.407 3.106 3.457 3.564 3.438  3.398    3.77
109)  1,3-dichlorobenzene
      1.624 1.602 1.609 1.621 1.674 1.595 1.514 1.802 1.729 1.652  1.642    4.83
110)  p-isopropyltoluene
      3.021 2.833 2.936 2.917 3.008 2.960 2.679 3.355 3.071 3.126  2.991    6.01
111)  1,4-dichlorobenzene
      1.633 1.588 1.618 1.635 1.646 1.620 1.522 1.856 1.681 1.776  1.657    5.74
112)  1,2-dichlorobenzene
      1.651 1.594 1.619 1.637 1.673 1.587 1.531 1.748 1.698 1.685  1.642    3.82
113)  benzyl chloride
```

Initial Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICC6180
Lab FileID: 2D147250.D

```
             1.664 1.418 1.399 1.457 1.359 1.395       1.443        1.448    6.95
114)  n-butylbenzene
       1.407 1.362 1.480 1.461 1.475 1.483 1.291 1.360 1.478 1.394  1.419    4.71
115)  1,2-dibromo-3-chloropropane
             0.167 0.166 0.166 0.168 0.169 0.155       0.180        0.167    4.40
116)  1,3,5-trichlorobenzene
       1.506 1.426 1.570 1.570 1.557 1.546 1.370 1.528 1.608 1.682  1.536    5.74
117)  hexachlorobutadiene
       0.779 0.759 0.788 0.784 0.795 0.778 0.691 0.810 0.822 0.806  0.781    4.68
118)  naphthalene
       1.893 1.834 2.210 2.179 2.157 2.184 1.778 2.091 2.173 2.015  2.051    7.87
119)  1,2,4-trichlorobenzene
       1.236 1.162 1.372 1.357 1.344 1.357 1.132 1.298 1.348 1.072  1.268    8.67
120)  1,2,3-trichlorobenzene
       1.060 0.961 1.147 1.150 1.122 1.128 0.940 1.095 1.136 1.100  1.084    6.95
121)  hexachloroethane
       0.625 0.569 0.648 0.644 0.643 0.660 0.562 0.613 0.664 0.556  0.618    6.72
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2D6180.M         Mon Aug 17 10:04:49 2015   MS2D
```

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICV6180
Lab FileID: 2D147255.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDChem\1\DATA\2D147255.D                    Vial: 13
Acq On    : 14 Aug 2015  10:40 pm                      Operator: BridgetK
Sample    : icv6180-50                                 Inst    : MS2D
Misc      : ms89231,v2d6180,w,,,,1                     Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\M2D6180.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon Aug 17 10:01:12 2015
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	tert butyl alcohol-d9	1.000	1.000	0.0	93	-0.02	7.56
2		tertiary butyl alcohol	1.258	1.210	3.8	95	0.00	7.70
3		ethyl alcohol	0.151	0.127	15.9	84	0.00	6.17
4		1,4-dioxane	0.122	0.109	10.7	85	0.00	12.39
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	10.29
6		chlorodifluoromethane	0.397	0.390	1.8	96	0.00	3.96
7		dichlorodifluoromethane	0.504	0.605	-20.0	116	-0.02	3.93
8		chloromethane	0.583	0.604	-3.6	106	-0.02	4.28
9		vinyl chloride	0.509	0.545	-7.1	105	-0.01	4.54
10		bromomethane	0.332	0.348	-4.8	110	-0.01	5.22
11		chloroethane	0.227	0.271	-19.4	122	-0.02	5.40
12		trichlorofluoromethane	0.609	0.639	-4.9	103	-0.03	5.88
13		ethyl ether	0.169	0.179	-5.9	106	-0.01	6.35
14		acrolein	0.060	0.062	-3.3	101	0.00	6.61
15		1,1-dichloroethene	0.323	0.327	-1.2	105	0.00	6.78
16	m	2-chloropropane	0.671	0.704	-4.9	107	0.00	6.55
17		acetone	0.024	0.025	-4.2	106	0.00	6.87
18		allyl chloride	0.179	0.200	-11.7	112	-0.01	7.38
19		acetonitrile	0.028	0.029	-3.6	106	0.00	7.35
20		iodomethane	0.715	0.741	-3.6	103	-0.01	7.08
21		carbon disulfide	1.167	1.254	-7.5	110	0.00	7.21
22		methylene chloride	0.378	0.385	-1.9	102	0.00	7.59
23		methyl acetate	0.045	0.045	0.0	97	0.00	7.38
24	m	1-chloropropane	0.031	0.031	0.0	102	0.00	7.64
25		methyl tert butyl ether	1.025	0.999	2.5	100	-0.01	7.99
26		trans-1,2-dichloroethene	0.362	0.359	0.8	101	0.00	8.02
27		di-isopropyl ether	1.316	1.314	0.2	102	0.00	8.72
28		2-butanone	0.031	0.032	-3.2	103	0.00	9.59
29		1,1-dichloroethane	0.677	0.708	-4.6	105	0.00	8.70
30		chloroprene	0.531	0.572	-7.7	109	0.00	8.83
31		acrylonitrile	0.110	0.114	-3.6	104	0.00	7.98
32		vinyl acetate	0.051	0.058	-13.7	109	0.00	8.71
33		ethyl tert-butyl ether	1.185	1.217	-2.7	102	0.00	9.29
34		ethyl acetate	0.040	0.042	-5.0	108	0.00	9.62
35		2,2-dichloropropane	0.596	0.556	6.7	96	0.00	9.61
36		cis-1,2-dichloroethene	0.404	0.411	-1.7	101	0.00	9.60
37		propionitrile	0.040	0.039	2.5	95	0.00	9.71
38		tert-Butyl Formate	0.328	0.324	1.2	99	0.00	10.14
39		bromochloromethane	0.207	0.210	-1.4	101	0.00	9.98
40		tetrahydrofuran	0.088	0.090	-2.3	103	0.00	10.04
41		chloroform	0.671	0.691	-3.0	103	0.00	10.06

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6180-ICV6180
Lab FileID: 2D147255.D

42	S	dibromofluoromethane (s)	0.351	0.350	0.3	99	-0.01	10.31
43	S	1,2-dichloroethane-d4 (s)	0.364	0.367	-0.8	98	0.00	10.85
44		freon 113	0.278	0.330	-18.7	121	0.00	6.77
45		methacrylonitrile	0.114	0.120	-5.3	104	0.00	9.93
46		1,1,1-trichloroethane	0.601	0.630	-4.8	104	-0.01	10.38
47		cyclohexane	0.505	0.514	-1.8	103	0.00	10.47
48		isobutyl alcohol	0.004	0.004	0.0	104	0.00	10.62
49	m	iso-octane	1.246	1.399	-12.3	117	0.00	11.00
50	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	11.45
51		epichlorohydrin	0.025	0.025	0.0	106	0.00	13.12
52		n-butyl alcohol	0.007	0.006	14.3	95	0.00	11.63
53		carbon tetrachloride	0.488	0.502	-2.9	105	0.00	10.63
54		1,1-dichloropropene	0.426	0.437	-2.6	104	0.00	10.61
55		hexane	0.045	0.043	4.4	98	0.00	8.41
56		benzene	1.265	1.255	0.8	102	0.00	10.95
57		tert-amyl methyl ether	0.212	0.212	0.0	103	0.00	11.03
58		heptane	0.203	0.228	-12.3	118	0.00	11.22
59		isopropyl acetate	0.512	0.534	-4.3	104	0.00	10.91
60		1,2-dichloroethane	0.412	0.428	-3.9	103	0.00	10.96
61		trichloroethene	0.349	0.360	-3.2	103	0.00	11.88
62		2-nitropropane		----------NA----------				
63		2-chloroethyl vinyl ether	0.175	0.200	-14.3	115	0.00	12.98
64		methyl methacrylate	0.166	0.180	-8.4	108	0.00	12.29
65		1,2-dichloropropane	0.340	0.341	-0.3	102	0.00	12.24
66		dibromomethane	0.199	0.200	-0.5	102	0.00	12.42
67		methylcyclohexane	0.509	0.553	-8.6	112	0.00	12.18
68		bromodichloromethane	0.464	0.477	-2.8	102	0.00	12.61
69		cis-1,3-dichloropropene	0.542	0.550	-1.5	102	0.00	13.25
70	S	toluene-d8 (s)	1.088	1.101	-1.2	100	0.00	13.64
71		4-methyl-2-pentanone	0.100	0.105	-5.0	108	0.00	13.42
72		toluene	0.776	0.792	-2.1	102	0.00	13.74
73		3-methyl-1-butanol	0.011	0.010	9.1	98	0.00	13.44
74		trans-1,3-dichloropropene	0.481	0.480	0.2	99	0.00	14.01
75		ethyl methacrylate	0.347	0.365	-5.2	103	0.00	14.06
76		1,1,2-trichloroethane	0.233	0.238	-2.1	103	0.00	14.29
77		2-hexanone	0.085	0.092	-8.2	106	0.00	14.57
78	I	chlorobenzene-d5	1.000	1.000	0.0	99	0.00	15.65
79		3,3-Dimethyl-1-butanol	0.029	0.027	6.9	97	0.00	14.80
80		tetrachloroethene	0.357	0.355	0.6	103	0.00	14.51
81		1,3-dichloropropane	0.496	0.492	0.8	103	0.00	14.53
82		butyl acetate	0.192	0.191	0.5	103	0.00	14.69
83		dibromochloromethane	0.415	0.428	-3.1	103	0.00	14.87
84		1,2-dibromoethane	0.319	0.325	-1.9	102	0.00	15.06
85	m	n-butyl ether	1.611	1.644	-2.0	101	0.00	15.68
86		chlorobenzene	1.010	1.022	-1.2	103	0.00	15.69
87		1,1,1,2-tetrachloroethane	0.417	0.422	-1.2	99	0.00	15.78
88		ethylbenzene	1.697	1.676	1.2	102	0.00	15.80
89		m,p-xylene	0.644	0.656	-1.9	102	0.00	15.94
90		o-xylene	0.673	0.697	-3.6	103	0.00	16.48
91		styrene	1.099	1.124	-2.3	101	0.00	16.49
92		bromoform	0.312	0.319	-2.2	100	0.00	16.78
93	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	18.41
94		isopropylbenzene	2.992	3.089	-3.2	102	0.00	16.92
95	S	4-bromofluorobenzene (s)	0.792	0.801	-1.1	99	0.00	17.13
96	m	cyclohexanone	0.040	0.018	55.0#	44#	0.00	17.10
97		bromobenzene	0.879	0.894	-1.7	101	0.00	17.35
98		1,1,2,2-tetrachloroethane	0.705	0.706	-0.1	99	0.00	17.27

Initial Calibration Verification

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR

Sample: V2D6180-ICV6180
Lab FileID: 2D147255.D

99		trans-1,4-dichloro-2-bute	0.172	0.171	0.6	97	0.00	17.33
100		1,2,3-trichloropropane	0.176	0.179	-1.7	102	0.00	17.35
101		n-propylbenzene	3.338	3.596	-7.7	106	0.00	17.40
102		2-chlorotoluene	0.781	0.791	-1.3	101	0.00	17.54
103		4-chlorotoluene	2.152	2.189	-1.7	100	0.00	17.66
104		1,3,5-trimethylbenzene	2.594	2.638	-1.7	101	0.00	17.58
105		tert-butylbenzene	2.302	2.392	-3.9	103	0.00	17.96
106		pentachloroethane	0.573	0.622	-8.6	103	0.00	18.02
107		1,2,4-trimethylbenzene	2.565	2.738	-6.7	104	0.00	18.00
108		sec-butylbenzene	3.398	3.552	-4.5	101	0.00	18.19
109		1,3-dichlorobenzene	1.642	1.679	-2.3	99	0.00	18.35
110		p-isopropyltoluene	2.991	3.112	-4.0	102	0.00	18.32
111		1,4-dichlorobenzene	1.657	1.689	-1.9	99	0.00	18.44
112		1,2-dichlorobenzene	1.642	1.709	-4.1	100	0.00	18.82
113		benzyl chloride	1.448	1.407	2.8	96	0.00	18.56
114		n-butylbenzene	1.419	1.561	-10.0	102	0.00	18.73
115		1,2-dibromo-3-chloropropa	0.167	0.174	-4.2	100	0.00	19.56
116		1,3,5-trichlorobenzene	1.536	1.649	-7.4	101	0.00	19.73
117		hexachlorobutadiene	0.781	0.819	-4.9	100	0.00	20.43
118		naphthalene	2.051	2.286	-11.5	101	0.00	20.58
119		1,2,4-trichlorobenzene	1.268	1.427	-12.5	101	0.00	20.32
120	m	1,2,3-trichlorobenzene	1.084	1.189	-9.7	99	0.00	20.79
121		hexachloroethane	0.618	0.679	-9.9	101	0.00	19.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2D147250.D M2D6180.M Mon Aug 17 10:04:49 2015 MS2D

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6208-CC6180
Lab FileID: 2D147883.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2D...10\v2d6208\2D147883.D Vial: 3
Acq On    :  9 Sep 2015   9:53 am                    Operator: BridgetK
Sample    : cc6180-20                                Inst    : MS2D
Misc      : ms90617,v2d6208,w,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2D6180.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon Aug 17 10:14:33 2015
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	tert butyl alcohol-d9	1.000	1.000	0.0	113	-0.01	7.57
2		tertiary butyl alcohol	1.258	1.063	15.5	98	0.00	7.70
3		ethyl alcohol	0.151	0.123	18.5	96	-0.02	6.16
4		1,4-dioxane	0.122	0.102	16.4	91	0.00	12.39
5	I	pentafluorobenzene	1.000	1.000	0.0	115	0.00	10.30
6		chlorodifluoromethane	0.397	0.394	0.8	117	0.00	3.97
7		dichlorodifluoromethane	0.504	0.653	-29.6#	145	0.00	3.95
8		chloromethane	0.583	0.627	-7.5	129	0.00	4.30
9		vinyl chloride	0.509	0.599	-17.7	137	0.00	4.55
10		bromomethane	0.332	0.385	-16.0	140	0.00	5.23
11		chloroethane	0.227	0.250	-10.1	133	0.00	5.42
12		trichlorofluoromethane	0.609	0.725	-19.0	137	0.00	5.91
13		ethyl ether	0.169	0.162	4.1	110	0.00	6.35
14		acrolein	0.060	0.052	13.3	100	0.00	6.62
15		1,1-dichloroethene	0.323	0.317	1.9	118	0.00	6.79
16	m	2-chloropropane	0.671	0.599	10.7	102	0.00	6.55
17		acetone	0.024	0.024	0.0	118	0.00	6.87
18		allyl chloride	0.179	0.176	1.7	113	-0.01	7.38
19		acetonitrile	0.028	0.021	25.0#	88	0.00	7.35
20		iodomethane	0.715	0.695	2.8	114	0.00	7.08
21		carbon disulfide	1.167	1.177	-0.9	119	0.00	7.21
22		methylene chloride	0.378	0.364	3.7	113	0.00	7.59
23		methyl acetate	0.045	0.046	-2.2	120	0.00	7.38
24	m	1-chloropropane	0.031	0.029	6.5	106	0.00	7.65
25		methyl tert butyl ether	1.025	0.946	7.7	111	0.00	8.00
26		trans-1,2-dichloroethene	0.362	0.350	3.3	112	0.00	8.02
27		di-isopropyl ether	1.316	1.036	21.3#	93	0.00	8.72
28		2-butanone	0.031	0.030	3.2	107	0.00	9.59
29		1,1-dichloroethane	0.677	0.629	7.1	108	0.00	8.70
30		chloroprene	0.531	0.439	17.3	96	0.00	8.83
31		acrylonitrile	0.110	0.091	17.3	97	0.00	7.98
32		vinyl acetate	0.051	0.030	41.2#	70	0.00	8.72
33		ethyl tert-butyl ether	1.185	1.041	12.2	103	0.00	9.29
34		ethyl acetate	0.040	0.033	17.5	93	0.00	9.62
35		2,2-dichloropropane	0.596	0.626	-5.0	125	0.00	9.62
36		cis-1,2-dichloroethene	0.404	0.388	4.0	112	0.00	9.59
37		propionitrile	0.040	0.033	17.5	93	0.00	9.70
38		tert-Butyl Formate	0.328	0.278	15.2	99	0.00	10.14
39		bromochloromethane	0.207	0.198	4.3	109	0.00	9.98
40		tetrahydrofuran	0.088	0.067	23.9#	85	0.00	10.04
41		chloroform	0.671	0.641	4.5	109	-0.01	10.05

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6208-CC6180
Lab FileID: 2D147883.D

42	S	dibromofluoromethane (s)	0.351	0.382	-8.8	128	0.00	10.31
43	S	1,2-dichloroethane-d4 (s)	0.364	0.388	-6.6	122	0.00	10.85
44		freon 113	0.278	0.278	0.0	121	0.00	6.78
45		methacrylonitrile	0.114	0.101	11.4	99	0.00	9.93
46		1,1,1-trichloroethane	0.601	0.609	-1.3	117	0.00	10.39
47		cyclohexane	0.505	0.535	-5.9	126	0.00	10.48
48		isobutyl alcohol	0.004	0.004	0.0	107	0.00	10.61
49	m	iso-octane	1.246	1.174	5.8	117	0.00	11.00
50	I	1,4-difluorobenzene	1.000	1.000	0.0	112	0.00	11.45
51		epichlorohydrin	0.025	0.020	20.0#	92	0.00	13.12
52		n-butyl alcohol	0.007	0.005	28.6#	92	0.00	11.63
53		carbon tetrachloride	0.488	0.502	-2.9	121	0.00	10.64
54		1,1-dichloropropene	0.426	0.406	4.7	111	0.00	10.62
55		hexane	0.045	0.036	20.0#	95	0.00	8.41
56		benzene	1.265	1.183	6.5	108	0.00	10.95
57		tert-amyl methyl ether	0.212	0.199	6.1	109	0.00	11.04
58		heptane	0.203	0.183	9.9	109	0.00	11.22
59		isopropyl acetate	0.512	0.393	23.2#	86	0.00	10.91
60		1,2-dichloroethane	0.412	0.388	5.8	105	0.00	10.96
61		trichloroethene	0.349	0.340	2.6	111	0.00	11.88
62		2-nitropropane		----------NA----------				
63		2-chloroethyl vinyl ether	0.175	0.144	17.7	90	0.00	12.98
64		methyl methacrylate	0.166	0.152	8.4	99	0.00	12.29
65		1,2-dichloropropane	0.340	0.311	8.5	102	0.00	12.24
66		dibromomethane	0.199	0.185	7.0	102	0.00	12.42
67		methylcyclohexane	0.509	0.485	4.7	115	0.00	12.18
68		bromodichloromethane	0.464	0.437	5.8	106	0.00	12.61
69		cis-1,3-dichloropropene	0.542	0.519	4.2	106	0.00	13.25
70	S	toluene-d8 (s)	1.088	1.230	-13.1	126	0.00	13.65
71		4-methyl-2-pentanone	0.100	0.087	13.0	97	0.00	13.42
72		toluene	0.776	0.763	1.7	108	0.00	13.74
73		3-methyl-1-butanol	0.011	0.009	18.2	93	0.00	13.44
74		trans-1,3-dichloropropene	0.481	0.471	2.1	108	0.00	14.01
75		ethyl methacrylate	0.347	0.325	6.3	103	0.00	14.06
76		1,1,2-trichloroethane	0.233	0.226	3.0	108	0.00	14.29
77		2-hexanone	0.085	0.080	5.9	106	0.00	14.57
78	I	chlorobenzene-d5	1.000	1.000	0.0	122	0.00	15.65
79		3,3-Dimethyl-1-butanol	0.029	0.021	27.6#	95	0.00	14.80
80		tetrachloroethene	0.357	0.319	10.6	110	0.00	14.52
81		1,3-dichloropropane	0.496	0.433	12.7	106	0.00	14.54
82		butyl acetate	0.192	0.156	18.8	100	0.00	14.70
83		dibromochloromethane	0.415	0.373	10.1	110	0.00	14.87
84		1,2-dibromoethane	0.319	0.280	12.2	105	0.00	15.07
85	m	n-butyl ether	1.611	1.405	12.8	104	0.00	15.68
86		chlorobenzene	1.010	0.922	8.7	111	0.00	15.70
87		1,1,1,2-tetrachloroethane	0.417	0.389	6.7	112	0.00	15.79
88		ethylbenzene	1.697	1.557	8.2	112	0.00	15.80
89		m,p-xylene	0.644	0.604	6.2	112	0.00	15.95
90		o-xylene	0.673	0.621	7.7	110	0.00	16.49
91		styrene	1.099	1.048	4.6	115	0.00	16.50
92		bromoform	0.312	0.279	10.6	109	0.00	16.79
93	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	119	0.00	18.41
94		isopropylbenzene	2.992	2.922	2.3	114	0.00	16.92
95	S	4-bromofluorobenzene (s)	0.792	0.867	-9.5	131	0.00	17.14
96	m	cyclohexanone	0.040	0.069	-72.5#	229#	0.00	17.10
97		bromobenzene	0.879	0.831	5.5	113	0.00	17.35
98		1,1,2,2-tetrachloroethane	0.705	0.647	8.2	110	0.00	17.27

Continuing Calibration Summary

Job Number: JC3254R
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Sample: V2D6208-CC6180
Lab FileID: 2D147883.D

99		trans-1,4-dichloro-2-bute	0.172	0.136	20.9#	95	0.00	17.33
100		1,2,3-trichloropropane	0.176	0.166	5.7	111	0.00	17.35
101		n-propylbenzene	3.338	3.288	1.5	116	0.00	17.41
102		2-chlorotoluene	0.781	0.749	4.1	114	0.00	17.55
103		4-chlorotoluene	2.152	2.109	2.0	115	0.00	17.66
104		1,3,5-trimethylbenzene	2.594	2.576	0.7	117	0.00	17.58
105		tert-butylbenzene	2.302	2.261	1.8	117	0.00	17.96
106		pentachloroethane	0.573	0.593	-3.5	116	0.00	18.02
107		1,2,4-trimethylbenzene	2.565	2.576	-0.4	118	0.00	18.01
108		sec-butylbenzene	3.398	3.456	-1.7	118	0.00	18.19
109		1,3-dichlorobenzene	1.642	1.667	-1.5	119	0.00	18.35
110		p-isopropyltoluene	2.991	3.001	-0.3	119	0.00	18.32
111		1,4-dichlorobenzene	1.657	1.641	1.0	119	0.00	18.44
112		1,2-dichlorobenzene	1.642	1.660	-1.1	118	0.00	18.83
113		benzyl chloride	1.448	1.433	1.0	117	0.00	18.56
114		n-butylbenzene	1.419	1.480	-4.3	120	0.00	18.73
115		1,2-dibromo-3-chloropropa	0.167	0.153	8.4	109	0.00	19.56
116		1,3,5-trichlorobenzene	1.536	1.572	-2.3	120	0.00	19.73
117		hexachlorobutadiene	0.781	0.819	-4.9	123	0.00	20.44
118		naphthalene	2.051	2.061	-0.5	114	0.00	20.58
119		1,2,4-trichlorobenzene	1.268	1.291	-1.8	115	0.00	20.32
120	m	1,2,3-trichlorobenzene	1.084	1.102	-1.7	117	0.00	20.80
121		hexachloroethane	0.618	0.616	0.3	114	0.00	19.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2D147249.D M2D6180.M Thu Sep 10 09:42:18 2015 RPT1

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147903R.D
Acq On : 9 Sep 2015 8:02 pm
Operator : BridgetK
Sample : jc3254-1R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 12:03:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

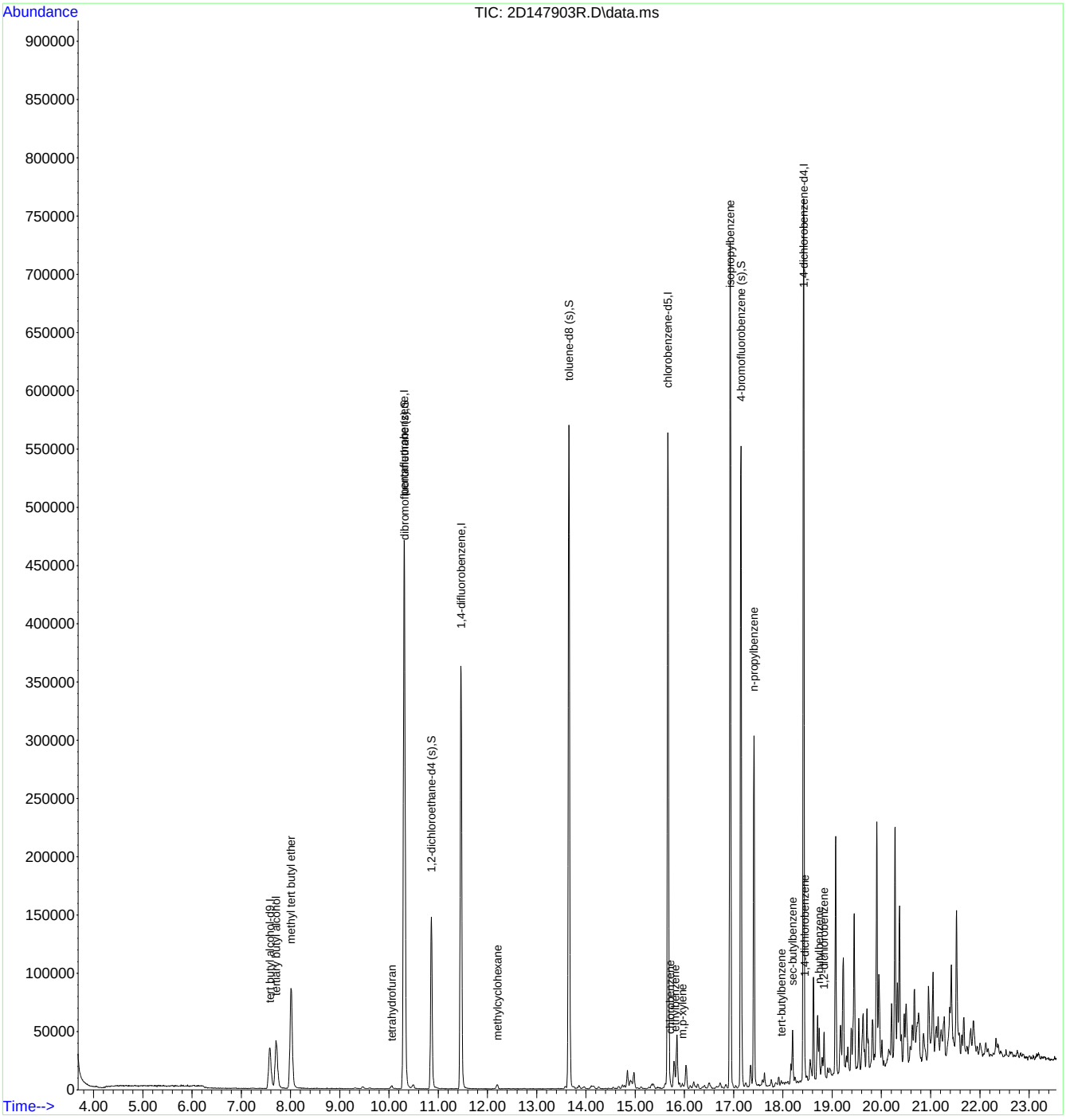
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	7.580	65	71114	500.00 ug/L	0.00
5) pentafluorobenzene	10.307	168	315763	50.00 ug/L	0.01
50) 1,4-difluorobenzene	11.465	114	353267	50.00 ug/L	0.02
78) chlorobenzene-d5	15.665	117	344291	50.00 ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.423	152	195986	50.00 ug/L	0.01
System Monitoring Compounds					
42) dibromofluoromethane (s)	10.317	113	119241	53.79 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 107.58%		
43) 1,2-dichloroethane-d4 (s)	10.862	65	126988	55.31 ug/L	0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 110.62%		
70) toluene-d8 (s)	13.657	98	429800	55.92 ug/L	0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 111.84%		
95) 4-bromofluorobenzene (s)	17.149	95	169736	54.66 ug/L	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.32%		
Target Compounds					Qvalue
2) tertiary butyl alcohol	7.706	59	83419	466.21 ug/L	91
25) methyl tert butyl ether	8.010	73	142263	21.98 ug/L	97
40) tetrahydrofuran	10.060	42	1929	3.46 ug/L	92
67) methylcyclohexane	12.204	83	1617	0.45 ug/L	89
86) chlorobenzene	15.707	112	1072	0.15 ug/L	91
88) ethylbenzene	15.812	91	2327	0.20 ug/L	92
89) m,p-xylene	15.959	106	948	0.21 ug/L #	69
94) isopropylbenzene	16.928	105	499563	42.60 ug/L	98
101) n-propylbenzene	17.411	91	231965	17.73 ug/L	100
105) tert-butylbenzene	17.967	119	1519	0.17 ug/L	93
108) sec-butylbenzene	18.197	105	29036	2.18 ug/L	99
111) 1,4-dichlorobenzene	18.444	146	980	0.15 ug/L	73
112) 1,2-dichlorobenzene	18.832	146	2493	0.39 ug/L	89
114) n-butylbenzene	18.737	92	11946	2.15 ug/L	96

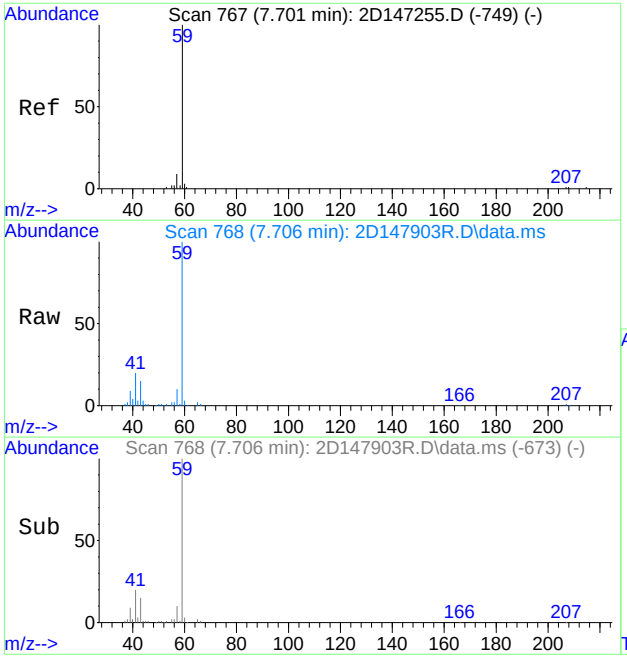
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147903R.D
Acq On : 9 Sep 2015 8:02 pm
Operator : BridgetK
Sample : jc3254-1R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 12:03:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

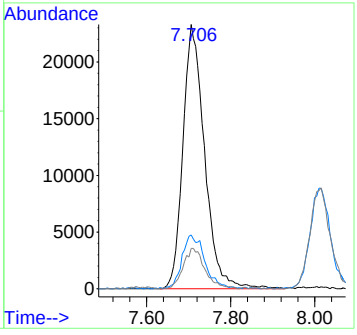


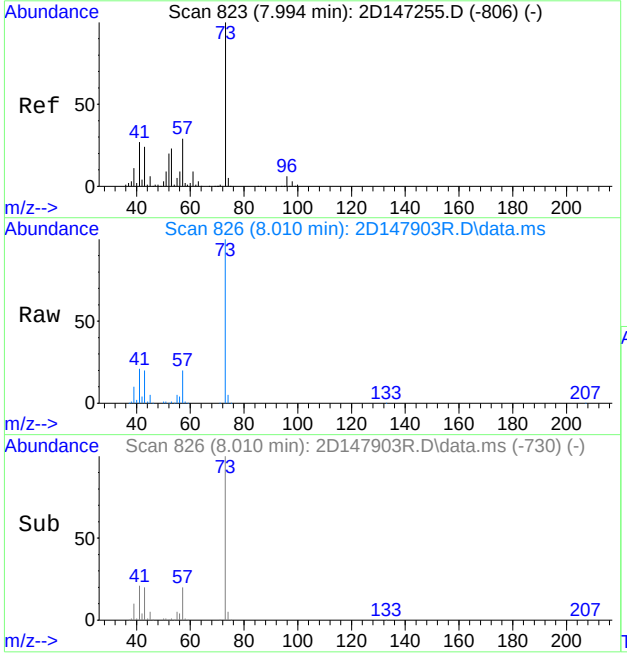


#2
tertiary butyl alcohol
Concen: 466.21 ug/L
RT: 7.706 min Scan# 768
Delta R.T. -0.000 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 59 Resp: 83419

Ion	Ratio	Lower	Upper
59	100		
41	20.1	0.0	57.3
43	15.3	0.0	45.7

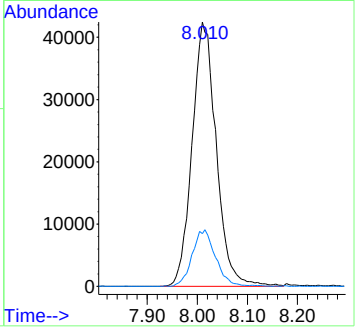


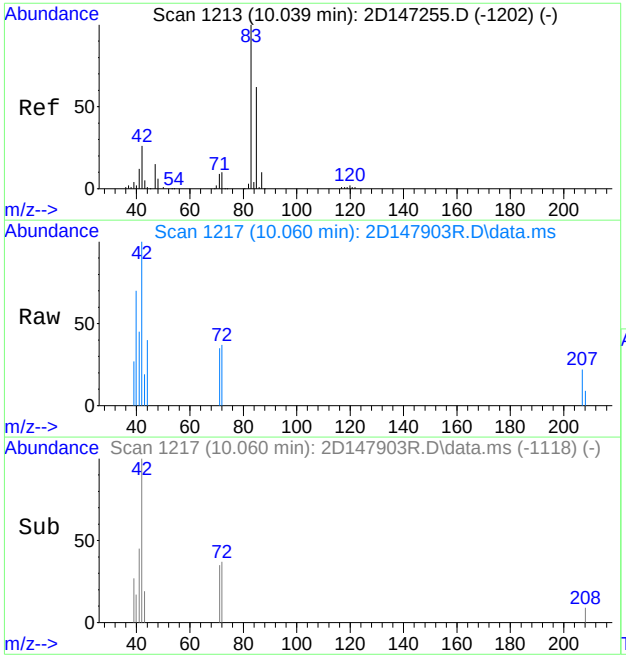


#25
methyl tert butyl ether
Concen: 21.98 ug/L
RT: 8.010 min Scan# 826
Delta R.T. 0.005 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 73 Resp: 142263

Ion	Ratio	Lower	Upper
73	100		
57	20.9	0.0	52.4

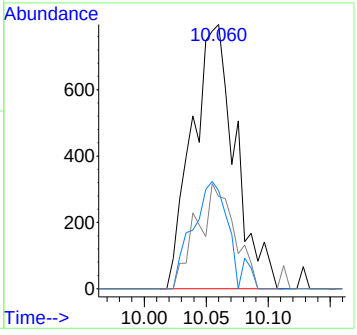


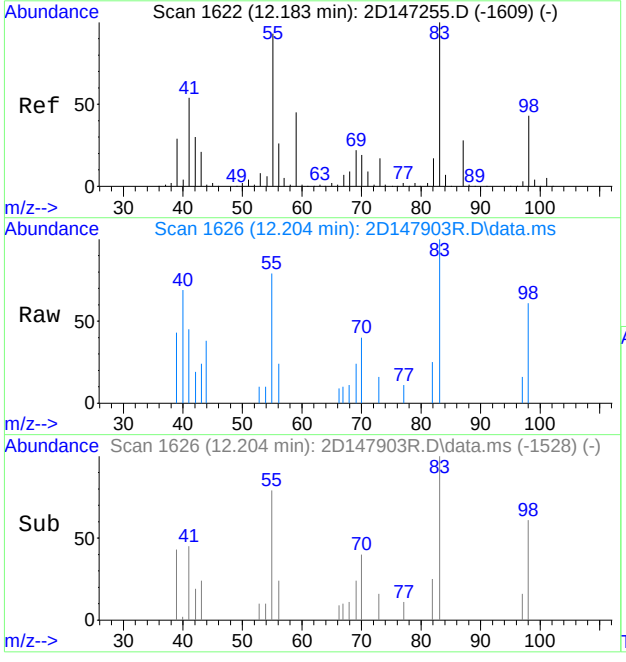


#40
tetrahydrofuran
Concen: 3.46 ug/L
RT: 10.060 min Scan# 1217
Delta R.T. 0.021 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 42 Resp: 1929

Ion	Ratio	Lower	Upper
42	100		
72	34.5	10.7	70.7
71	34.6	7.8	67.8

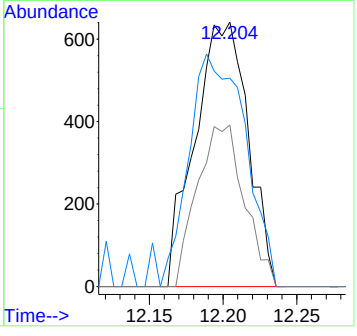


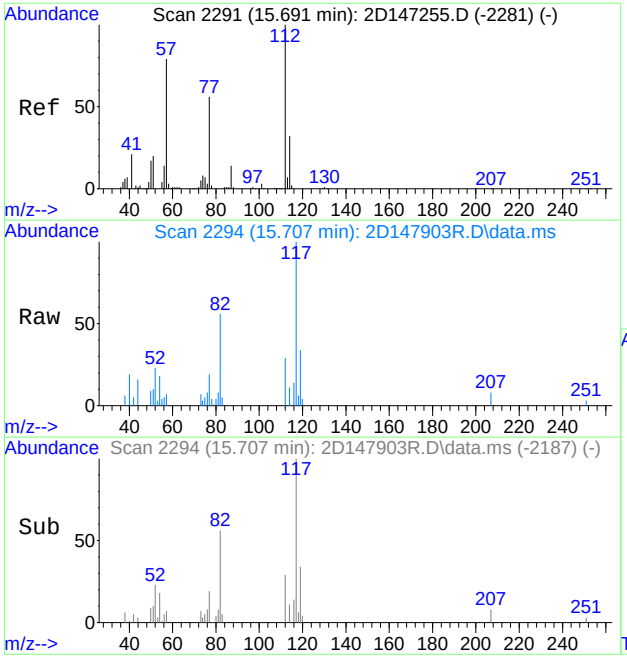


#67
methylcyclohexane
Concen: 0.45 ug/L
RT: 12.204 min Scan# 1626
Delta R.T. 0.016 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 83 Resp: 1617

Ion	Ratio	Lower	Upper
83	100		
55	78.8	51.6	111.6
98	61.1	14.3	74.3

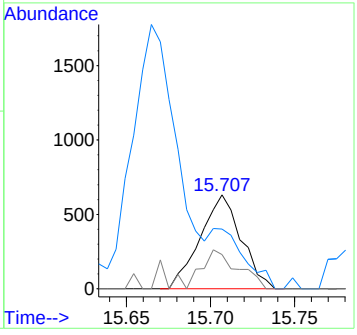


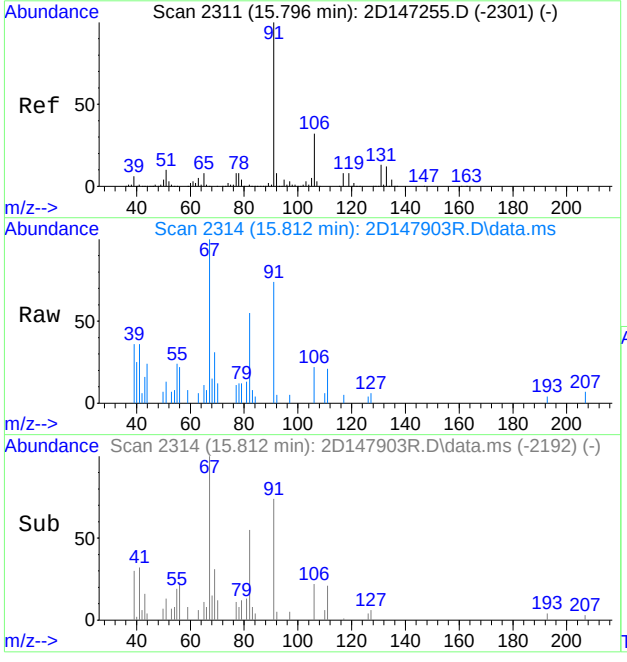


#86
chlorobenzene
Concen: 0.15 ug/L
RT: 15.707 min Scan# 2294
Delta R.T. 0.010 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:112 Resp: 1072

Ion	Ratio	Lower	Upper
112	100		
77	63.6	26.2	86.2
114	36.4	2.4	62.4

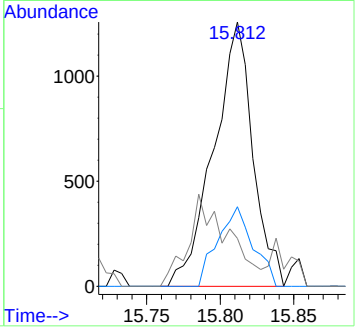




#88
ethylbenzene
Concen: 0.20 ug/L
RT: 15.812 min Scan# 2314
Delta R.T. 0.010 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

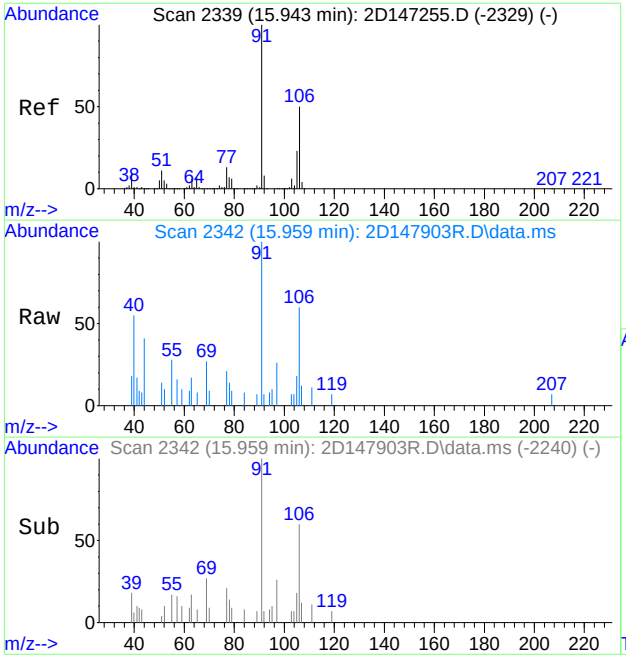
Tgt Ion: 91 Resp: 2327

Ion	Ratio	Lower	Upper
91	100		
106	30.1	2.0	62.0
51	18.1	0.0	40.1



7.1.1

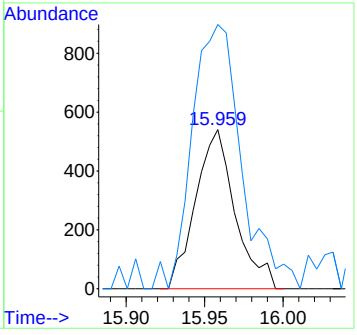
7

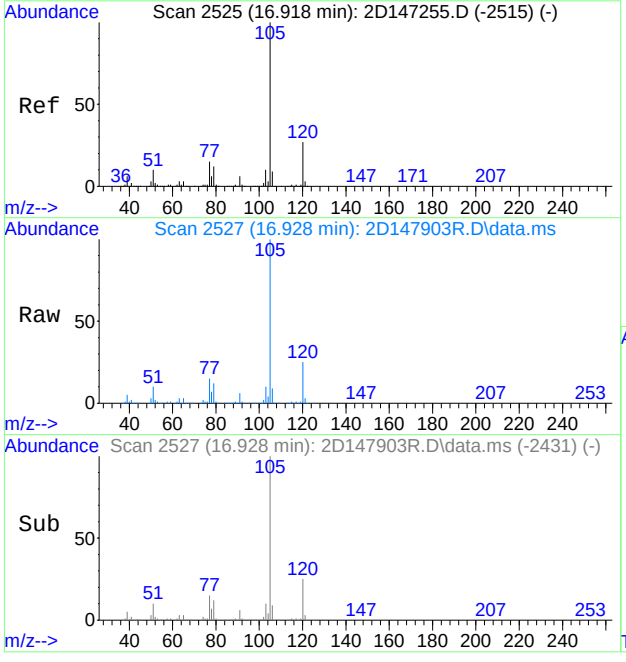


#89
m,p-xylene
Concen: 0.21 ug/L
RT: 15.959 min Scan# 2342
Delta R.T. 0.016 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:106 Resp: 948

Ion	Ratio	Lower	Upper
106	100		
91	150.5	166.3	226.3#

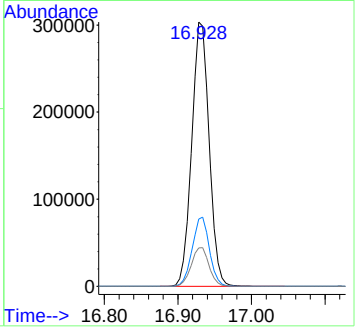


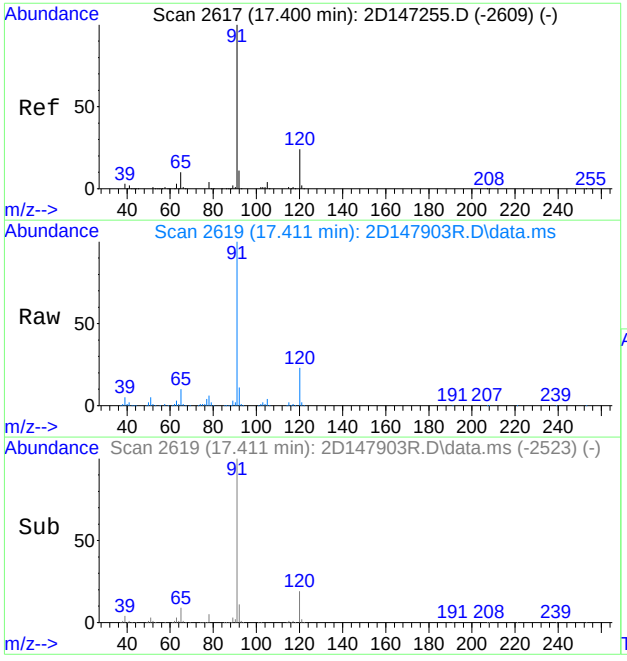


#94
isopropylbenzene
Concen: 42.60 ug/L
RT: 16.928 min Scan# 2527
Delta R.T. 0.005 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:105 Resp: 499563

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.5
77	14.5	0.0	44.8

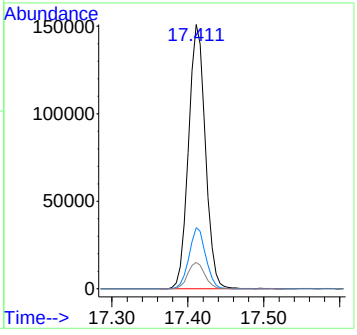


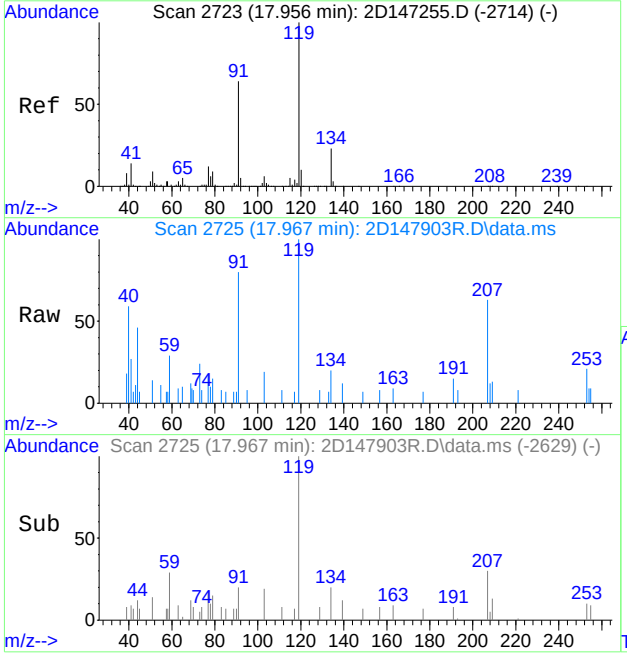


#101
n-propylbenzene
Concen: 17.73 ug/L
RT: 17.411 min Scan# 2619
Delta R.T. 0.005 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 91 Resp: 231965

Ion	Ratio	Lower	Upper
91	100		
120	23.2	0.0	53.4
65	9.9	0.0	40.0

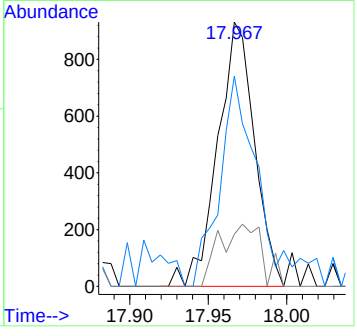


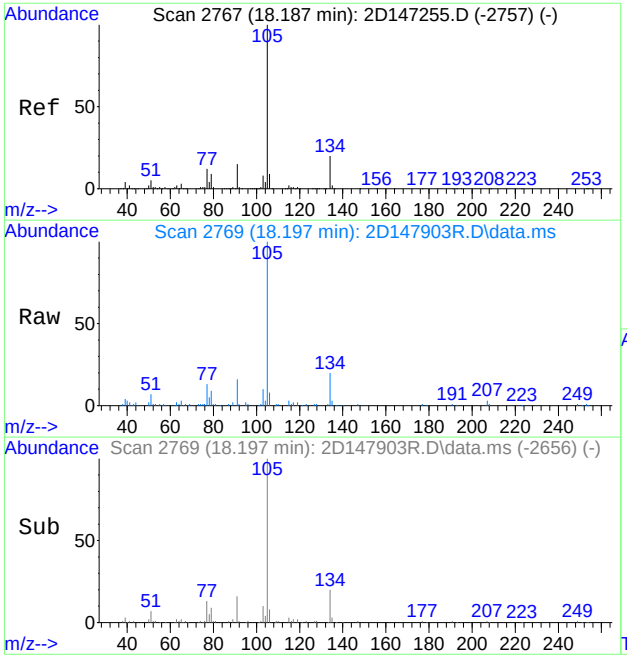


#105
tert-butylbenzene
Concen: 0.17 ug/L
RT: 17.967 min Scan# 2725
Delta R.T. 0.005 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:119 Resp: 1519

Ion	Ratio	Lower	Upper
119	100		
91	67.6	32.7	92.7
134	19.7	0.0	54.2

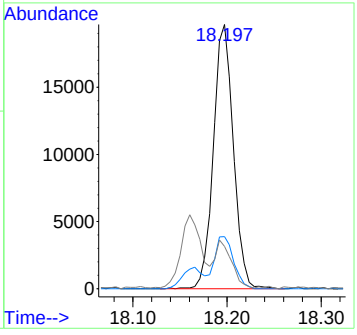


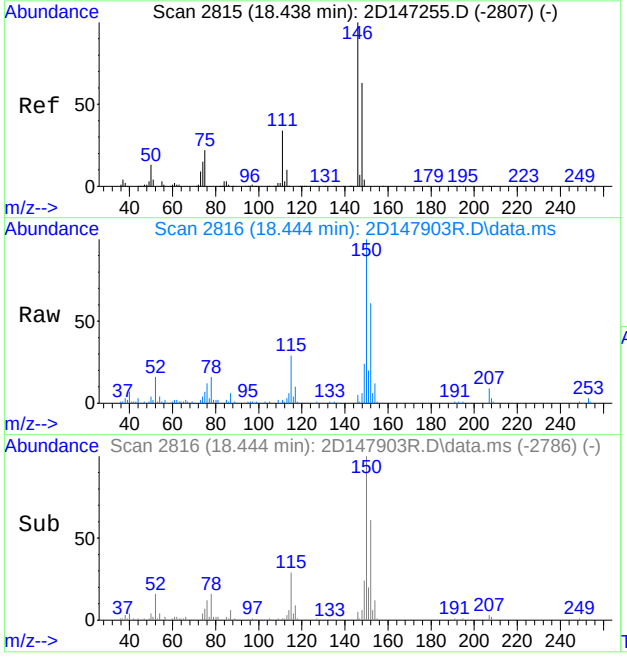


#108
sec-butylbenzene
Concen: 2.18 ug/L
RT: 18.197 min Scan# 2769
Delta R.T. 0.010 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:105 Resp: 29036

Ion	Ratio	Lower	Upper
105	100		
134	19.7	0.0	50.1
91	15.6	0.0	45.1

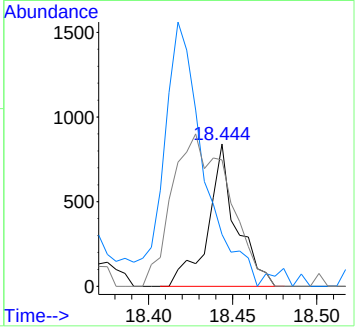




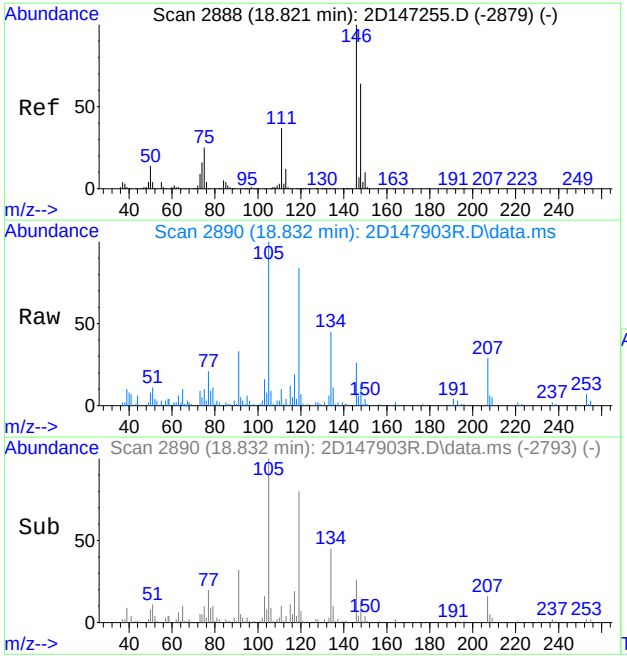
#111
1,4-dichlorobenzene
Concen: 0.15 ug/L
RT: 18.444 min Scan# 2816
Delta R.T. 0.005 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:146 Resp: 980

Ion	Ratio	Lower	Upper
146	100		
111	23.8	4.0	64.0
148	88.8	34.1	94.1



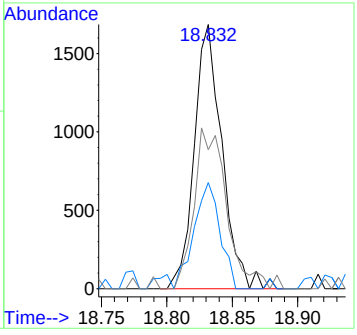
7.1.1

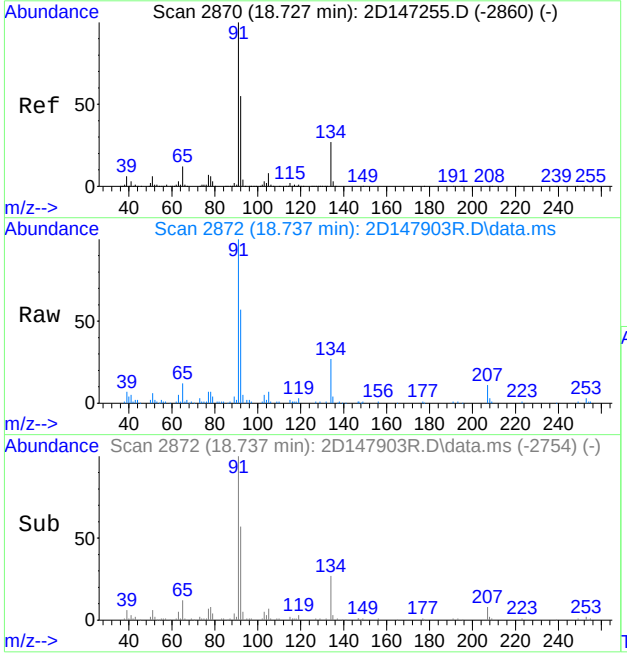


#112
1,2-dichlorobenzene
Concen: 0.39 ug/L
RT: 18.832 min Scan# 2890
Delta R.T. 0.010 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion:146 Resp: 2493

Ion	Ratio	Lower	Upper
146	100		
111	40.2	7.9	67.9
148	52.6	34.5	94.5

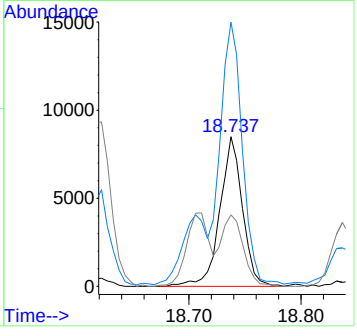




#114
n-butylbenzene
Concen: 2.15 ug/L
RT: 18.737 min Scan# 2872
Delta R.T. 0.010 min
Lab File: 2D147903R.D
Acq: 9 Sep 2015 8:02 pm

Tgt Ion: 92 Resp: 11946

Ion	Ratio	Lower	Upper
92	100		
91	174.9	151.6	211.6
134	47.8	18.0	78.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\
Data File : 2B134317r.D
Acq On : 10 Sep 2015 6:46 pm
Operator : BridgetK
Sample : jc3254-2R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 18 17:12:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

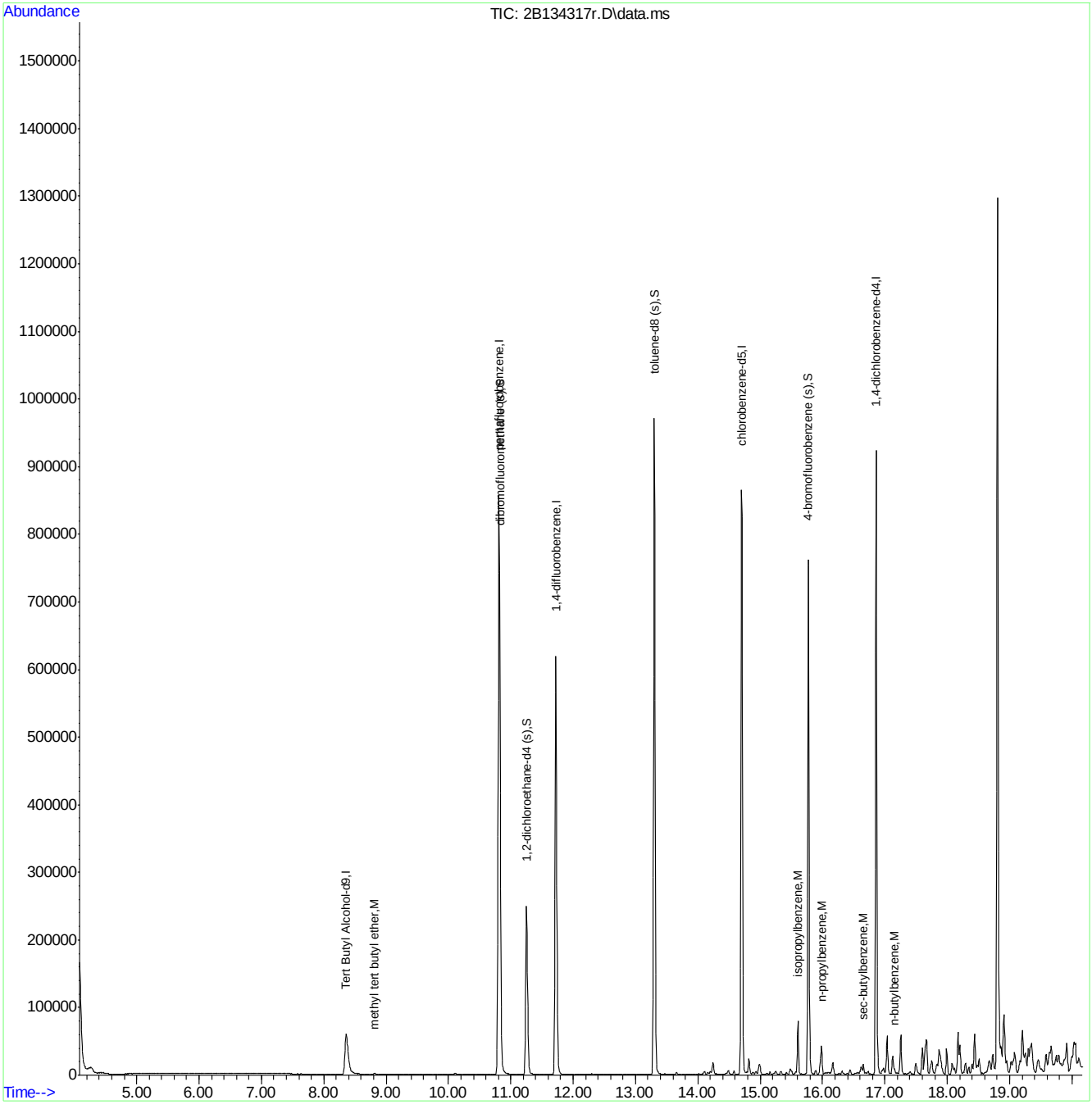
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	117346	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	533959	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	548707	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	466291	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	246140	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	192979	54.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 108.96%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	190646	52.30	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 104.60%			
82) toluene-d8 (s)	13.302	98	611604	52.34	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.68%			
108) 4-bromofluorobenzene (s)	15.771	95	211016	51.08	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.16%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.814	73	1819	0.26	ug/L	54
107) isopropylbenzene	15.609	105	45771	4.11	ug/L	99
114) n-propylbenzene	15.981	91	24980	2.10	ug/L	94
121) sec-butylbenzene	16.652	105	8780	0.73	ug/L	93
126) n-butylbenzene	17.150	92	2297	0.45	ug/L	94

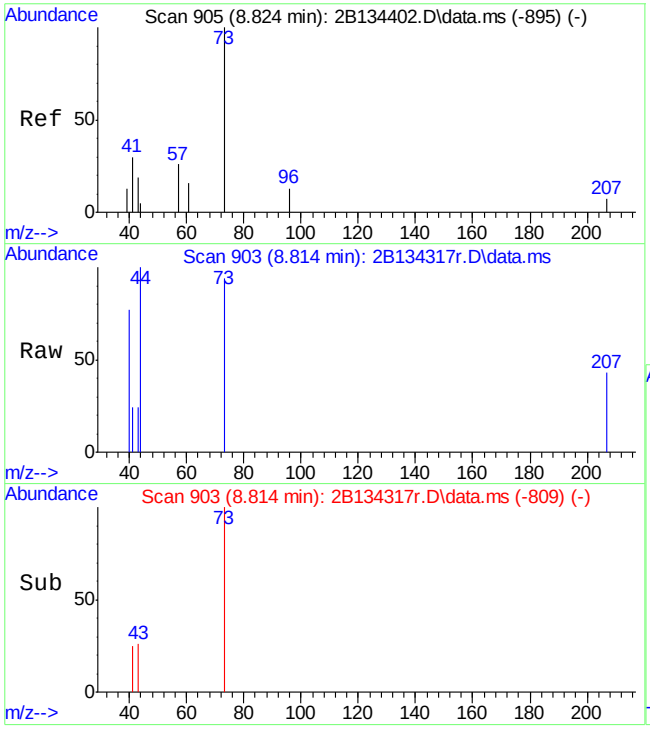
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\
Data File : 2B134317r.D
Acq On : 10 Sep 2015 6:46 pm
Operator : BridgetK
Sample : jc3254-2R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 18 17:12:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

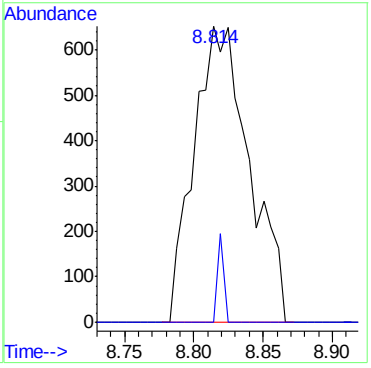


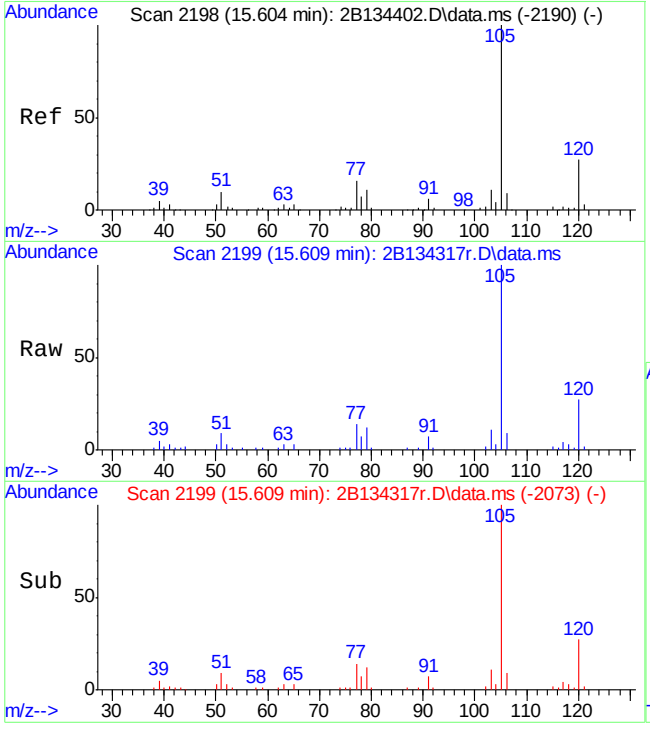


#34
methyl tert butyl ether
Concen: 0.26 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134317r.D
Acq: 10 Sep 2015 6:46 pm

Tgt Ion: 73 Resp: 1819

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	52.0

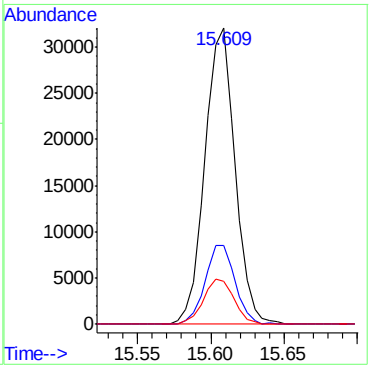


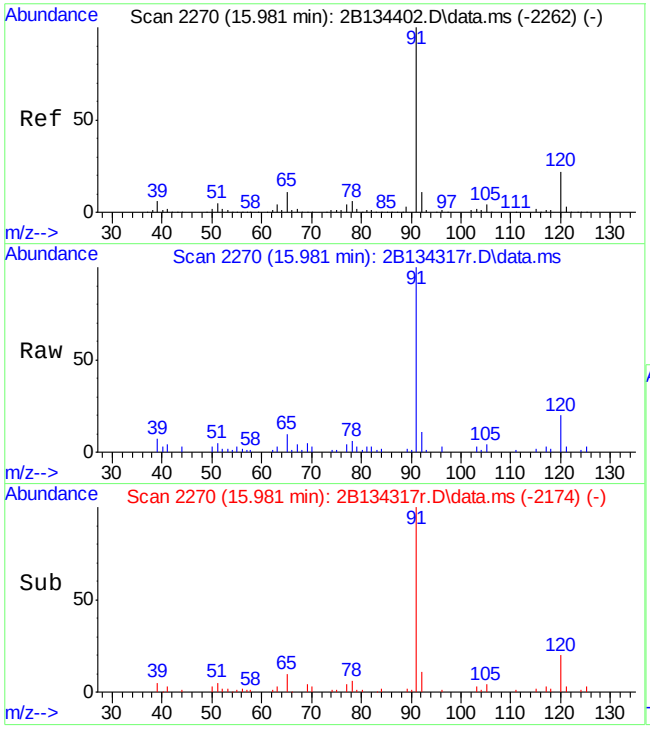


#107
isopropylbenzene
Concen: 4.11 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134317r.D
Acq: 10 Sep 2015 6:46 pm

Tgt Ion:105 Resp: 45771

Ion	Ratio	Lower	Upper
105	100		
120	26.6	0.0	56.6
77	14.3	0.0	43.7

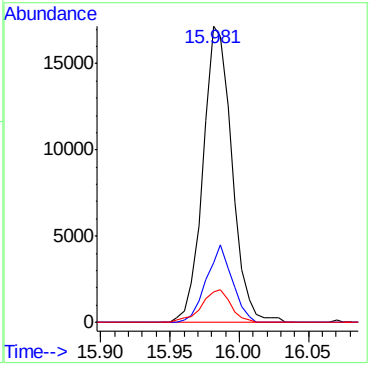


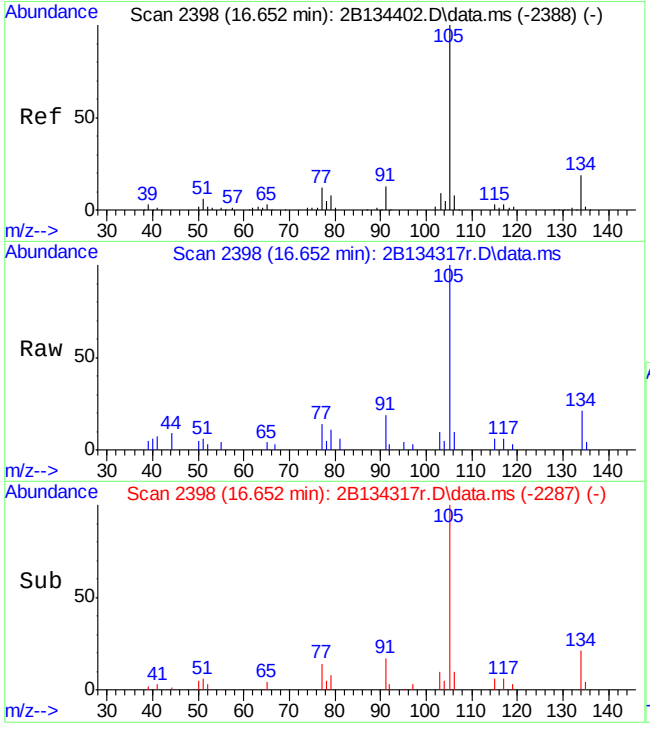


#114
n-propylbenzene
Concen: 2.10 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134317r.D
Acq: 10 Sep 2015 6:46 pm

Tgt Ion: 91 Resp: 24980

Ion	Ratio	Lower	Upper
91	100		
120	20.2	0.0	54.2
65	10.1	0.0	39.7

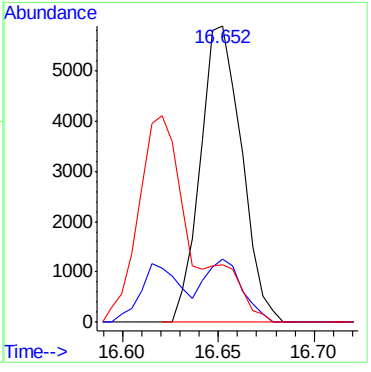




#121
sec-butylbenzene
Concen: 0.73 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. 0.000 min
Lab File: 2B134317r.D
Acq: 10 Sep 2015 6:46 pm

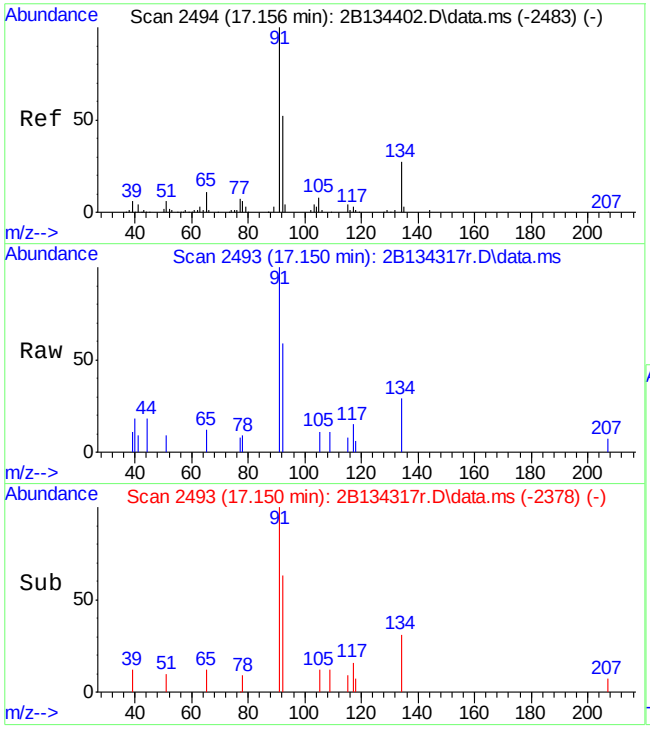
Tgt Ion:105 Resp: 8780

Ion	Ratio	Lower	Upper
105	100		
134	21.2	0.0	49.9
91	19.4	0.0	44.6



7.1.2

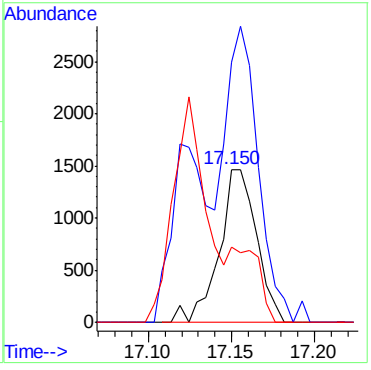
7



#126
n-butylbenzene
Concen: 0.45 ug/L
RT: 17.150 min Scan# 2493
Delta R.T. -0.005 min
Lab File: 2B134317r.D
Acq: 10 Sep 2015 6:46 pm

Tgt Ion: 92 Resp: 2297

Ion	Ratio	Lower	Upper
92	100		
91	170.0	149.3	209.3
134	48.9	20.6	80.6



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134408r.D
Acq On : 12 Sep 2015 4:14 pm
Operator : BridgetK
Sample : jc3254-3R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 21 11:51:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

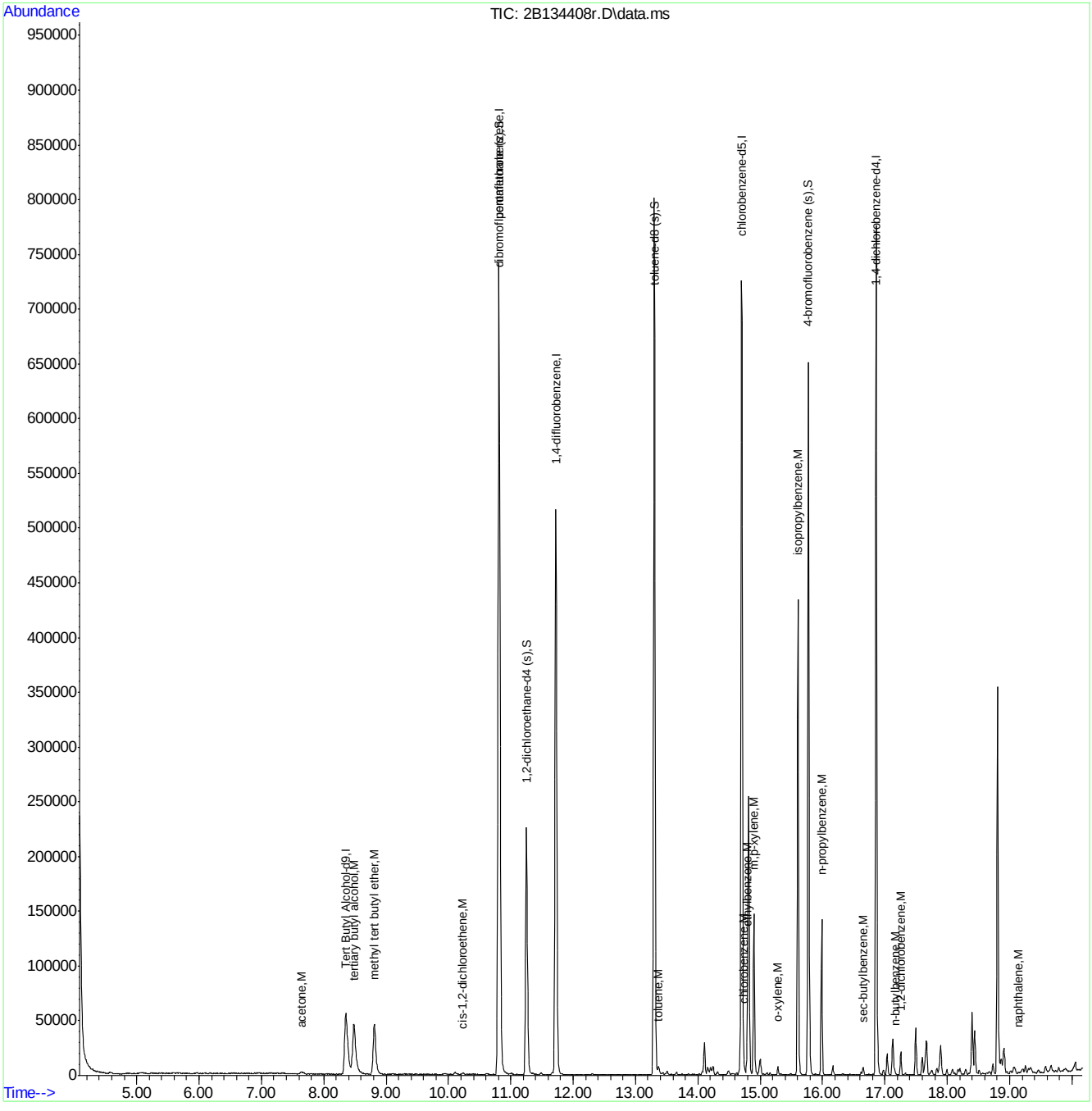
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	108733	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	460101	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	438147	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	365642	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	194485	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	154499	50.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.24%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	174910	55.68	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.36%			
82) toluene-d8 (s)	13.302	98	485596	52.04	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.08%			
108) 4-bromofluorobenzene (s)	15.771	95	167772	51.39	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.78%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.478	59	84465	333.22	ug/L	86
25) acetone	7.645	43	3943	6.12	ug/L	87
34) methyl tert butyl ether	8.814	73	63925	10.43	ug/L	98
45) cis-1,2-dichloroethene	10.229	96	841	0.30	ug/L	71
84) toluene	13.370	92	2611	0.51	ug/L	91
98) chlorobenzene	14.733	112	2465	0.46	ug/L	96
100) ethylbenzene	14.796	91	30379	3.47	ug/L	97
101) m,p-xylene	14.901	106	37864	10.91	ug/L	100
102) o-xylene	15.284	106	1880	0.51	ug/L	90
107) isopropylbenzene	15.604	105	246980	28.07	ug/L	98
114) n-propylbenzene	15.986	91	97033	10.33	ug/L	98
121) sec-butylbenzene	16.652	105	4459	0.47	ug/L	92
125) 1,2-dichlorobenzene	17.260	146	3236	0.68	ug/L	86
126) n-butylbenzene	17.161	92	1756	0.44	ug/L	90
131) naphthalene	19.148	128	1197	0.20	ug/L	70

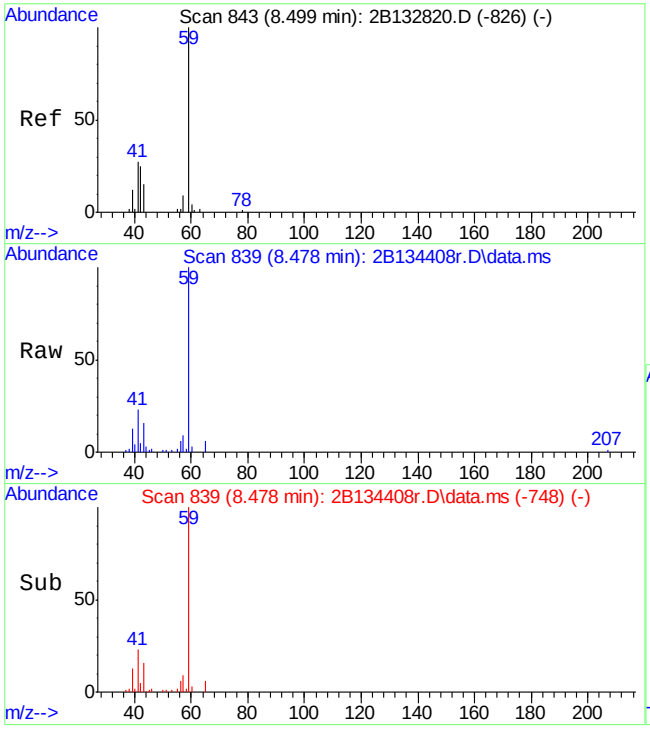
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134408r.D
Acq On : 12 Sep 2015 4:14 pm
Operator : BridgetK
Sample : jc3254-3R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 21 11:51:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

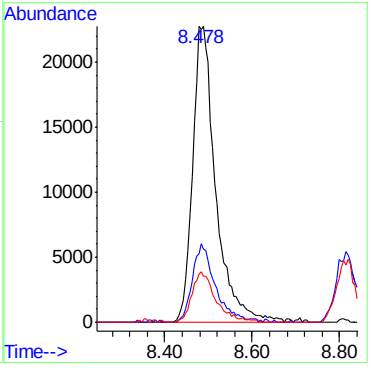


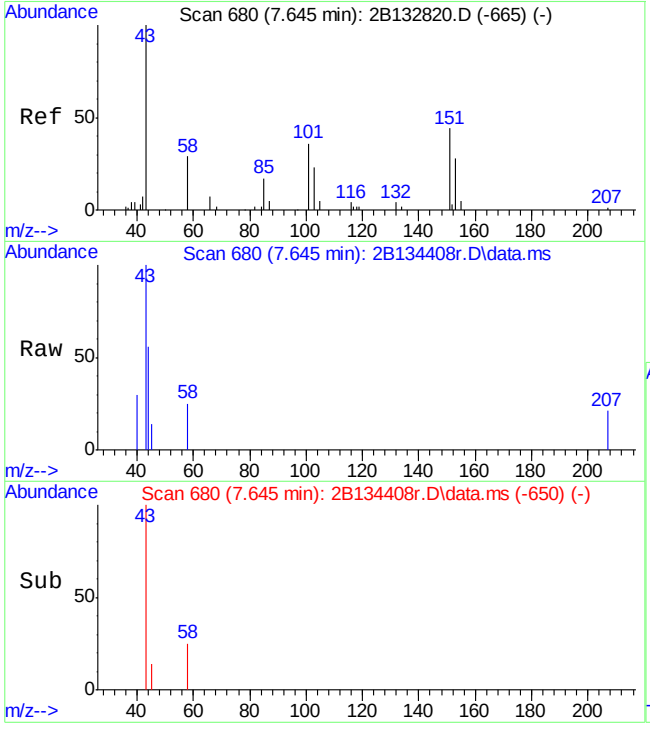


#2
tertiary butyl alcohol
Concen: 333.22 ug/L
RT: 8.478 min Scan# 839
Delta R.T. -0.021 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 59 Resp: 84465

Ion	Ratio	Lower	Upper
59	100		
41	23.1	4.6	64.6
43	16.3	0.0	48.1

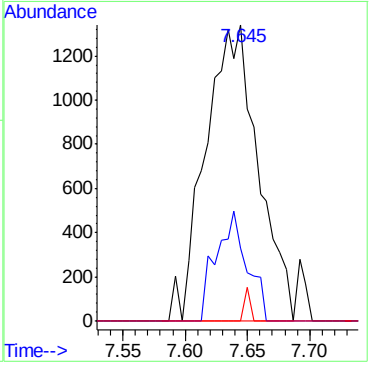


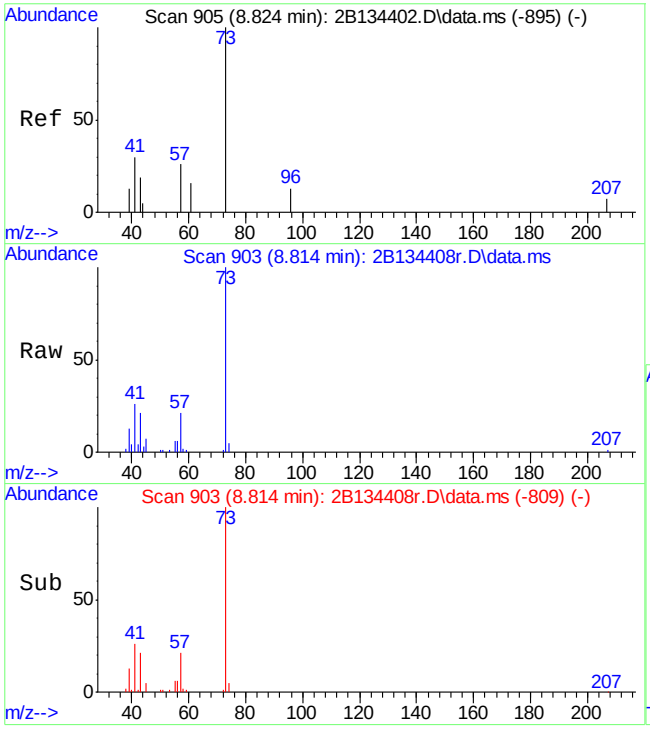


#25
acetone
Concen: 6.12 ug/L
RT: 7.645 min Scan# 680
Delta R.T. 0.006 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 43 Resp: 3943

Ion	Ratio	Lower	Upper
43	100		
58	24.7	0.6	60.6
42	0.0	0.0	37.7

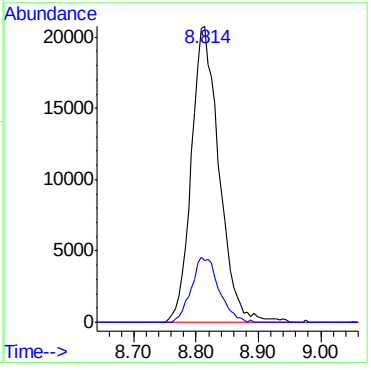


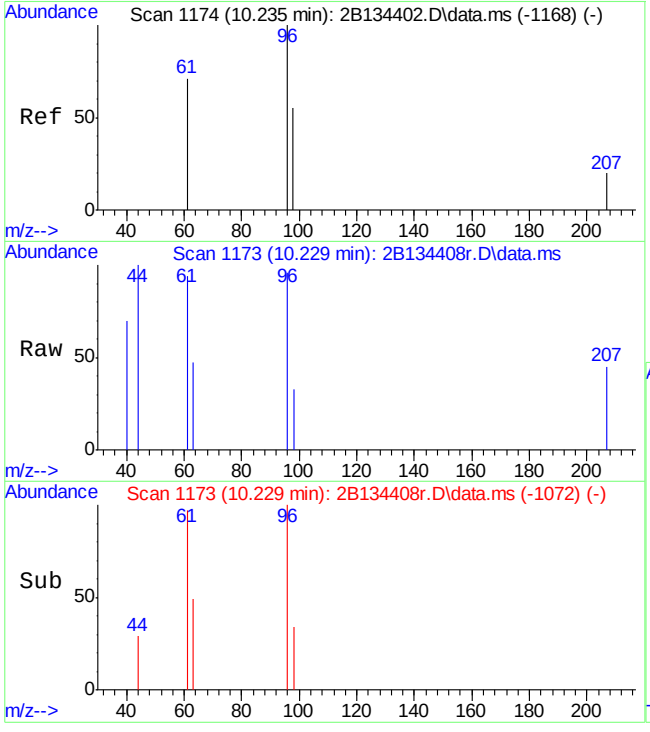


#34
methyl tert butyl ether
Concen: 10.43 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 73 Resp: 63925

Ion	Ratio	Lower	Upper
73	100		
57	21.0	0.0	52.0

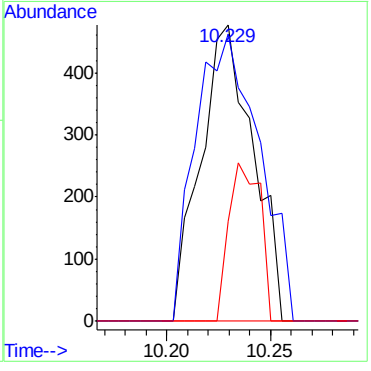


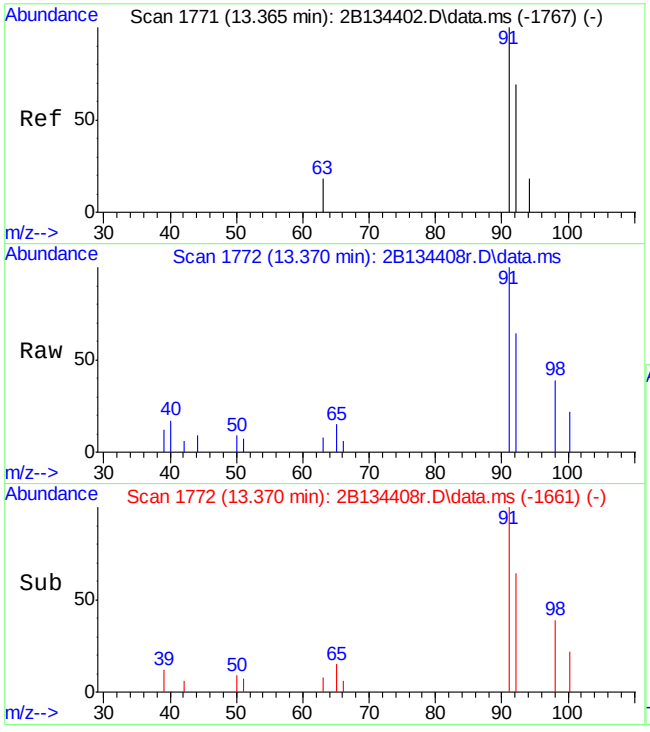


#45
cis-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 10.229 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 96 Resp: 841

Ion	Ratio	Lower	Upper
96	100		
61	97.1	96.0	156.0
98	34.0	32.9	92.9

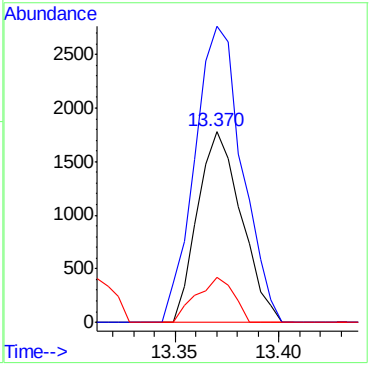


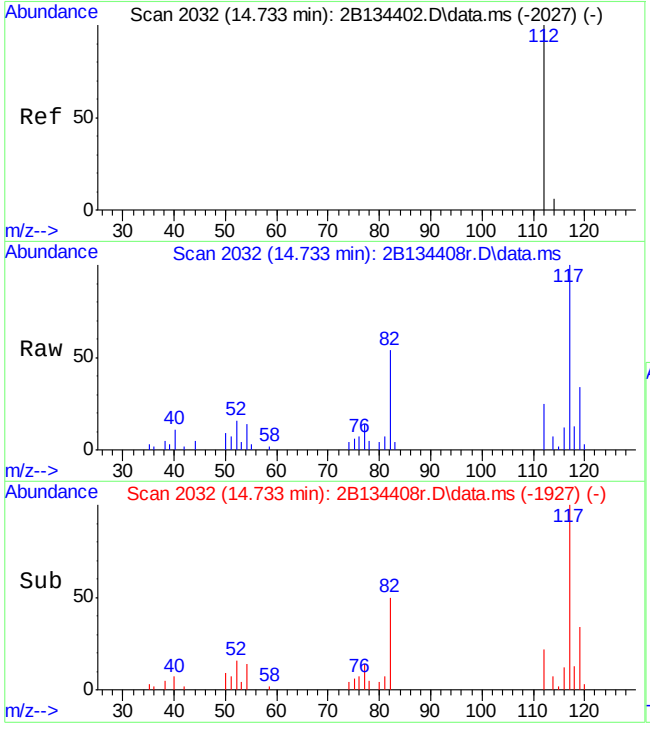


#84
toluene
Concen: 0.51 ug/L
RT: 13.370 min Scan# 1772
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 92 Resp: 2611

Ion	Ratio	Lower	Upper
92	100		
91	155.2	137.1	197.1
65	23.3	0.0	48.1

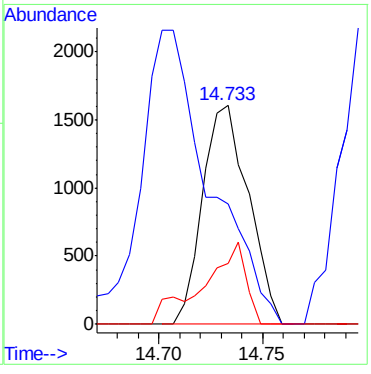


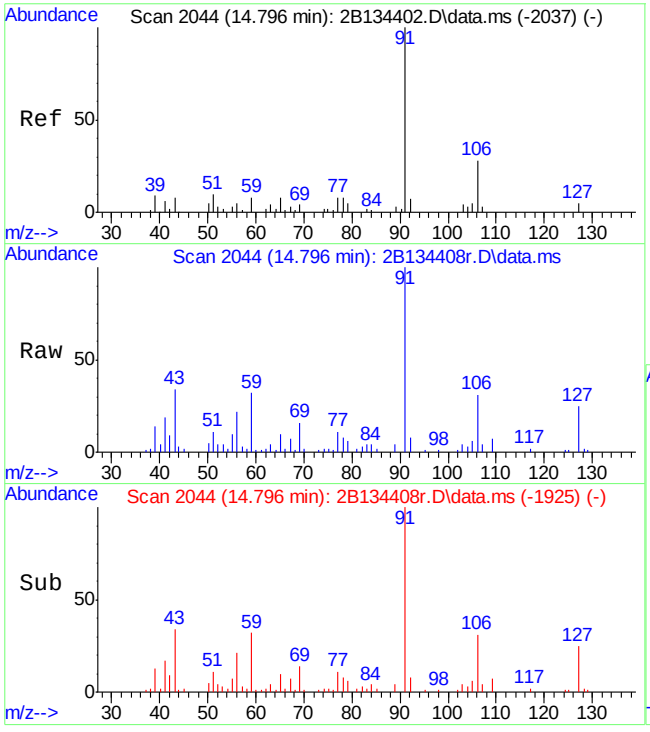


#98
chlorobenzene
Concen: 0.46 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:112 Resp: 2465

Ion	Ratio	Lower	Upper
112	100		
77	55.1	23.5	83.5
114	27.9	1.6	61.6

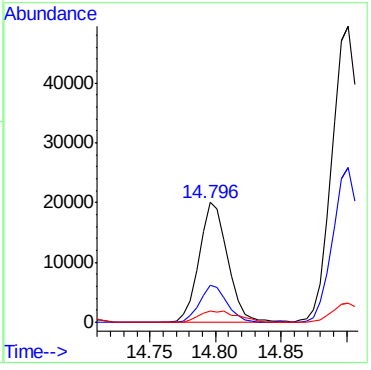


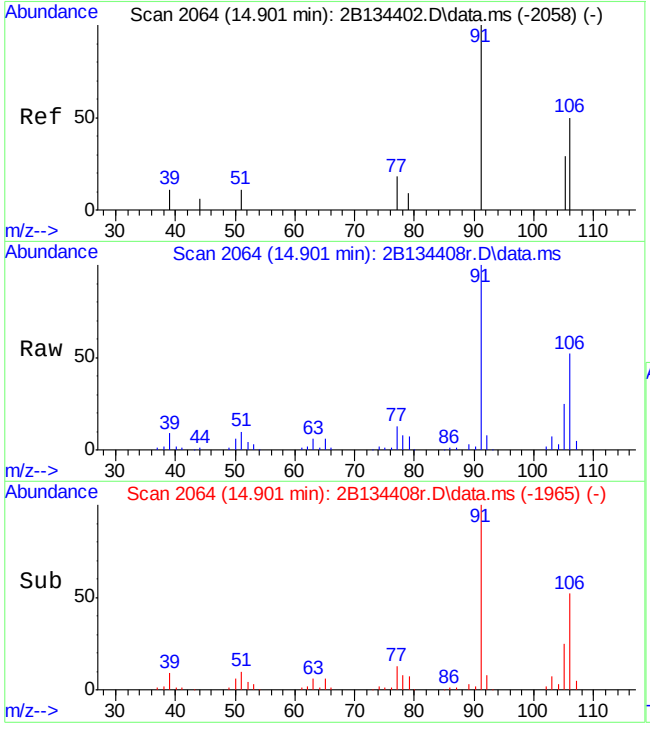


#100
ethylbenzene
Concen: 3.47 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 91 Resp: 30379

Ion	Ratio	Lower	Upper
91	100		
106	31.0	2.4	62.4
65	9.8	0.0	38.1

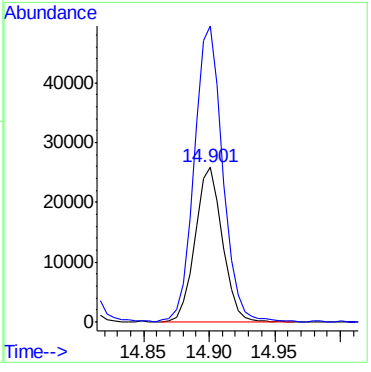


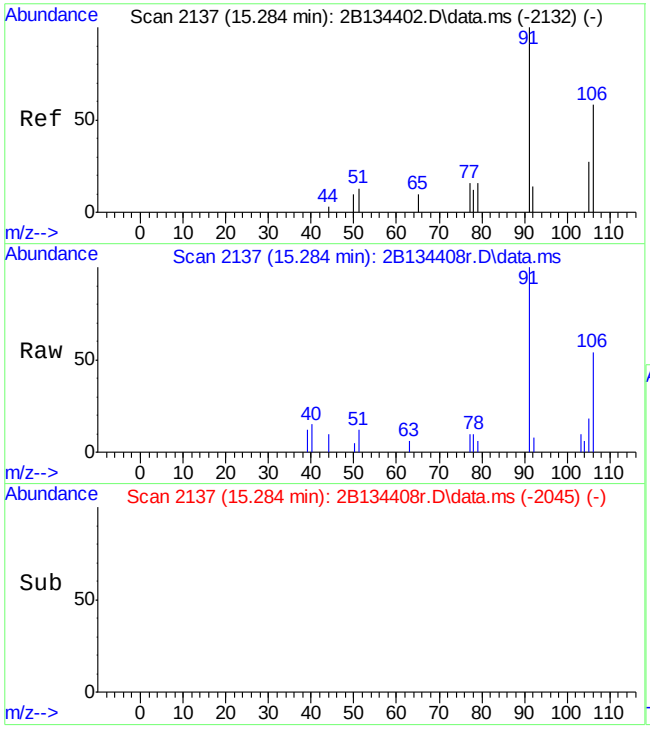


#101
m,p-xylene
Concen: 10.91 ug/L
RT: 14.901 min Scan# 2064
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:106 Resp: 37864

Ion	Ratio	Lower	Upper
106	100		
91	189.7	159.7	219.7

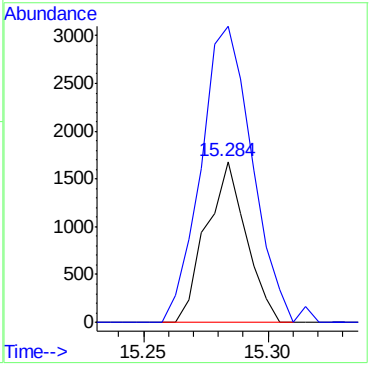


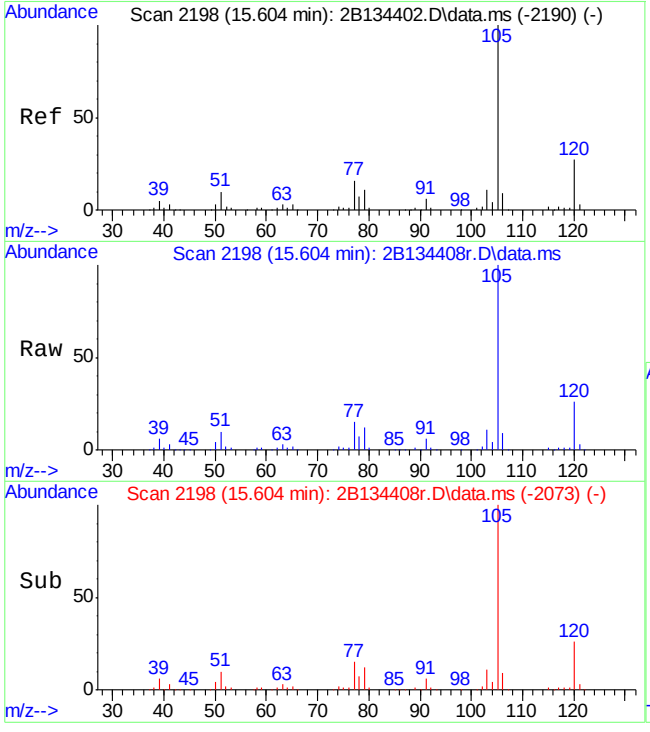


#102
o-xylene
Concen: 0.51 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:106 Resp: 1880

Ion	Ratio	Lower	Upper
106	100		
91	184.3	170.1	230.1

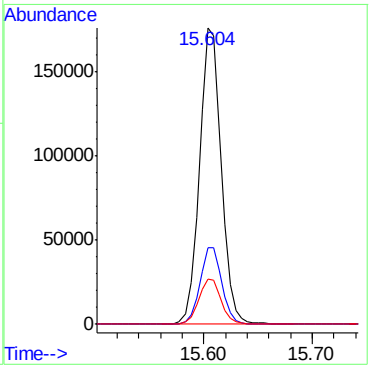


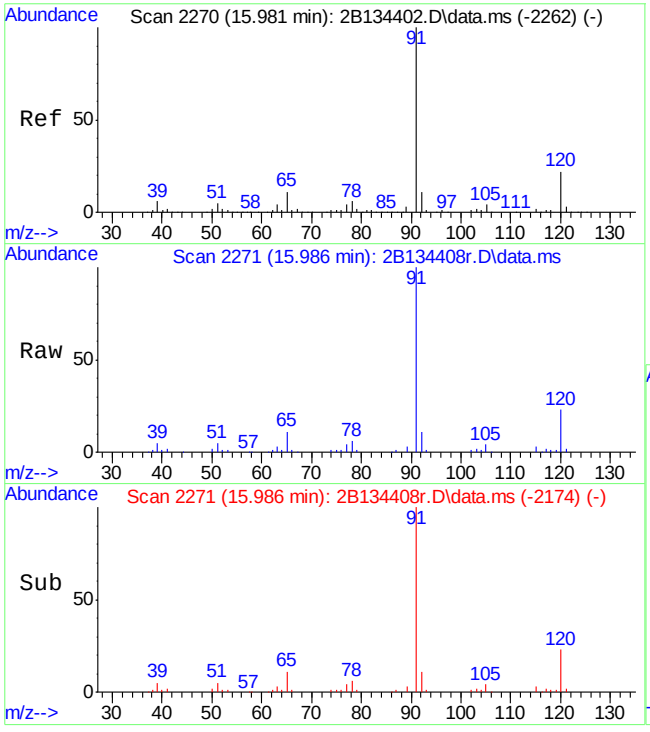


#107
isopropylbenzene
Concen: 28.07 ug/L
RT: 15.604 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:105 Resp: 246980

Ion	Ratio	Lower	Upper
105	100		
120	25.9	0.0	56.6
77	15.3	0.0	43.7

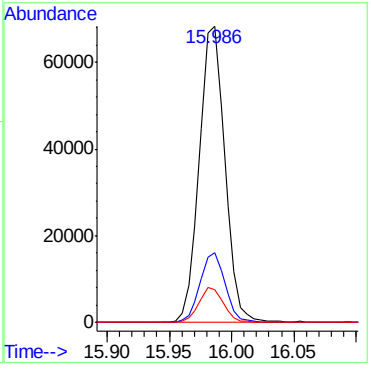


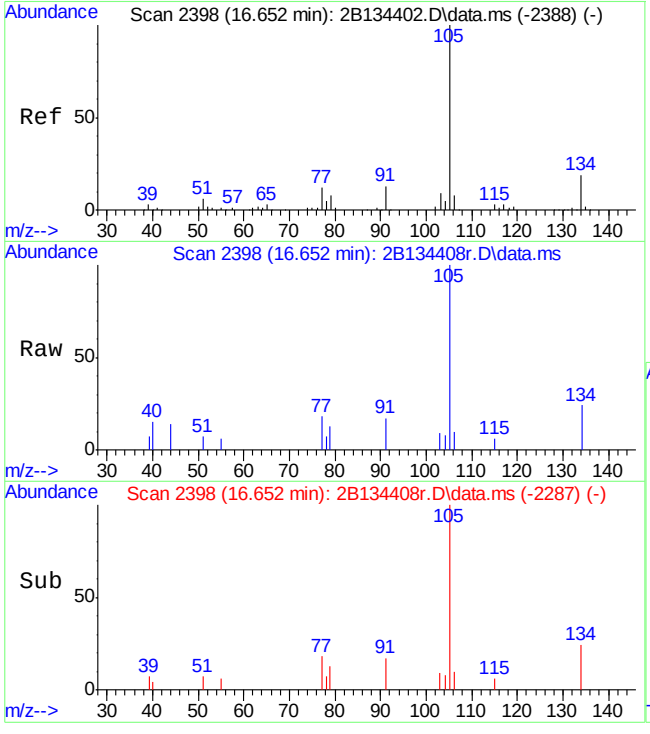


#114
n-propylbenzene
Concen: 10.33 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 91 Resp: 97033

Ion	Ratio	Lower	Upper
91	100		
120	23.5	0.0	54.2
65	11.2	0.0	39.7

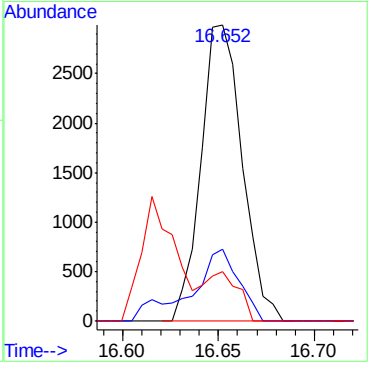


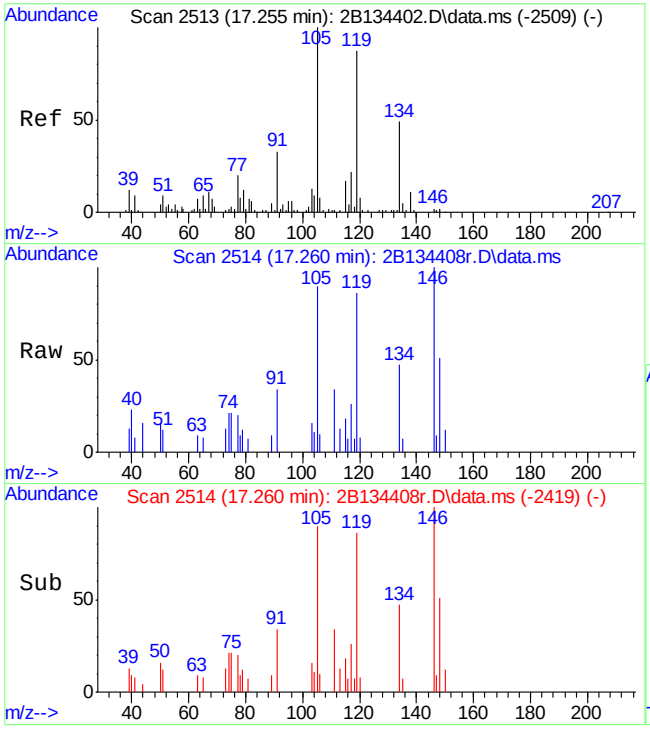


#121
sec-butylbenzene
Concen: 0.47 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:105 Resp: 4459

Ion	Ratio	Lower	Upper
105	100		
134	24.4	0.0	49.9
91	16.8	0.0	44.6

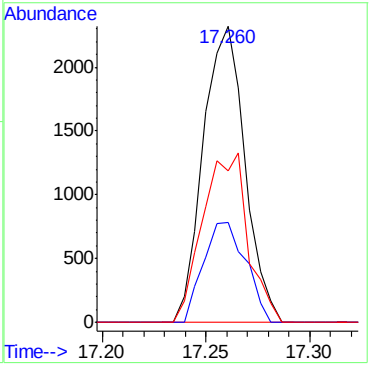


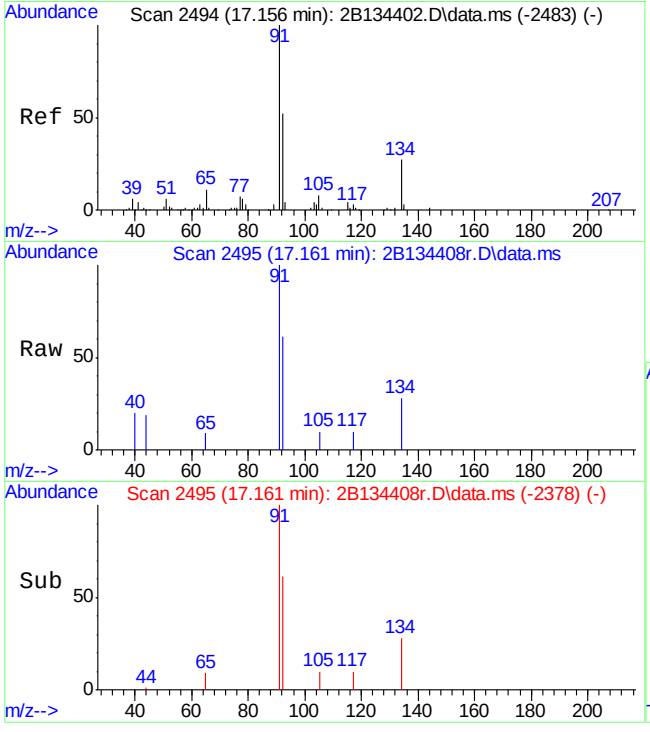


#125
1,2-dichlorobenzene
Concen: 0.68 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:146 Resp: 3236

Ion	Ratio	Lower	Upper
146	100		
111	33.9	5.0	65.0
148	51.2	37.0	97.0

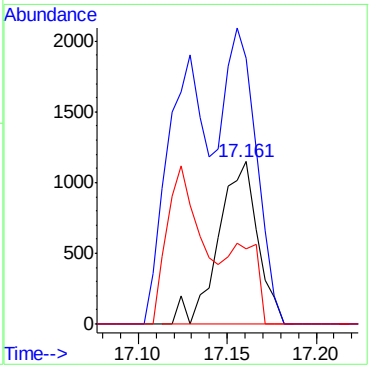


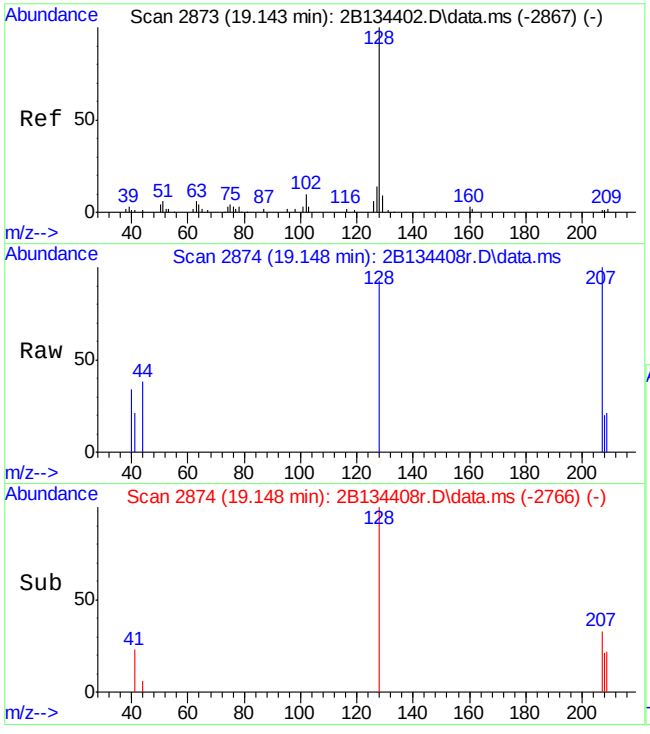


#126
n-butylbenzene
Concen: 0.44 ug/L
RT: 17.161 min Scan# 2495
Delta R.T. 0.006 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion: 92 Resp: 1756

Ion	Ratio	Lower	Upper
92	100		
91	163.9	149.3	209.3
134	46.1	20.6	80.6

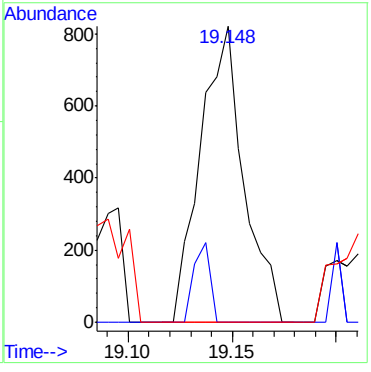




#131
naphthalene
Concen: 0.20 ug/L
RT: 19.148 min Scan# 2874
Delta R.T. 0.006 min
Lab File: 2B134408r.D
Acq: 12 Sep 2015 4:14 pm

Tgt Ion:128 Resp: 1197

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	42.5
129	0.0	0.0	41.0



7.1.3

7

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 12/18/15 18:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5985\
Data File : 2B134319r.D
Acq On : 10 Sep 2015 7:43 pm
Operator : BridgetK
Sample : jc3254-4R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 21 10:44:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	124256	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	560186	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	568537	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	478442	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	247249	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	197320	53.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.20%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	194714	50.91	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.82%			
82) toluene-d8 (s)	13.302	98	633588	52.33	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.66%			
108) 4-bromofluorobenzene (s)	15.771	95	211052	50.86	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 101.72%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.819	73	3514	0.47	ug/L	89
45) cis-1,2-dichloroethene	10.229	96	710	0.21	ug/L	80
56) Cyclohexane	11.011	84	917	0.23	ug/L #	32
79) methylcyclohexane	12.300	83	1218	0.29	ug/L	81
98) chlorobenzene	14.733	112	5483	0.77	ug/L	95
101) m,p-xylene	14.896	106	2783	0.61	ug/L #	70
107) isopropylbenzene	15.609	105	3476	0.31	ug/L	96
124) 1,4-dichlorobenzene	16.883	146	1853m	0.30	ug/L	
125) 1,2-dichlorobenzene	17.260	146	2616	0.43	ug/L	91

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

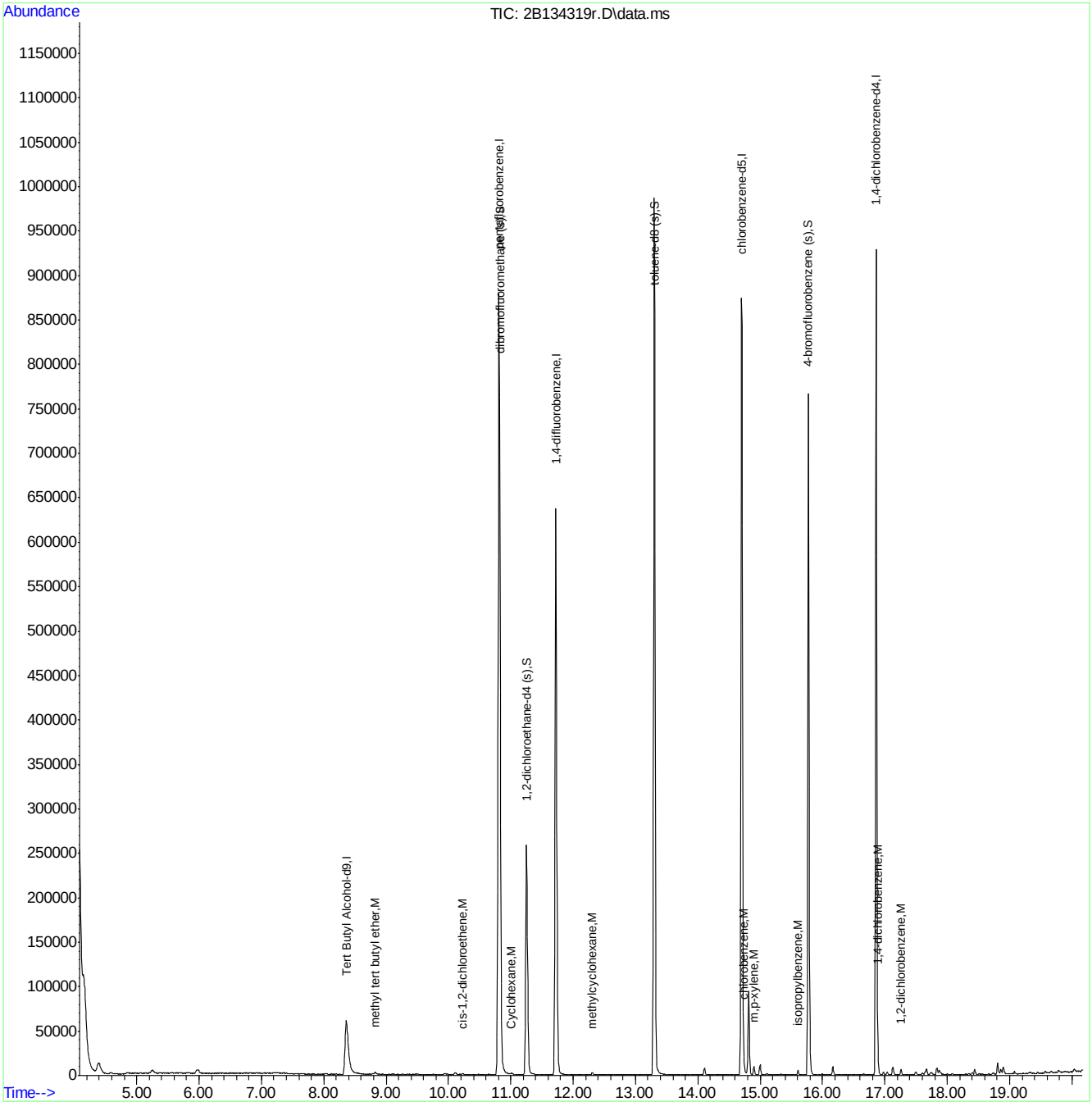
7.1.4

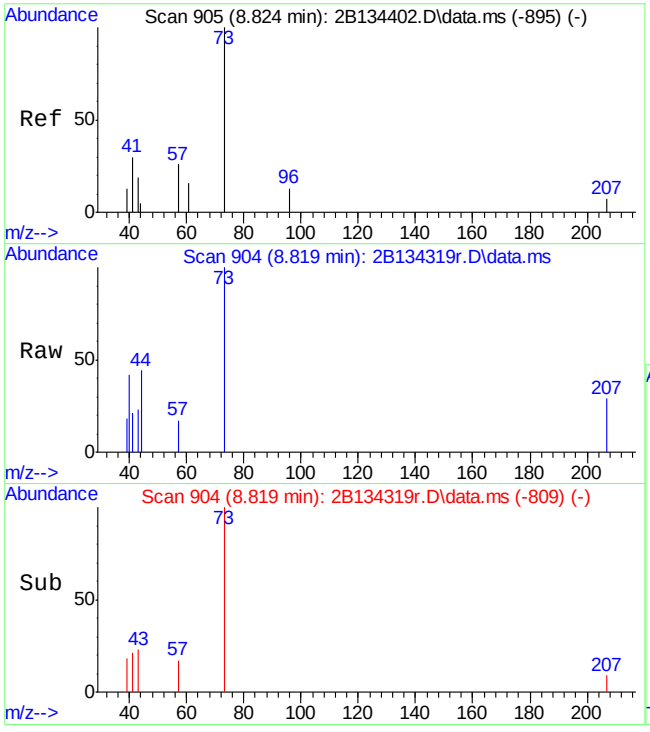
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5985\
Data File : 2B134319r.D
Acq On : 10 Sep 2015 7:43 pm
Operator : BridgetK
Sample : jc3254-4R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 21 10:44:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

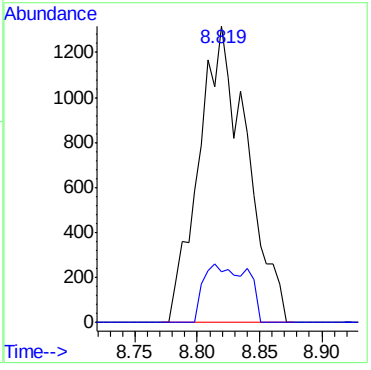


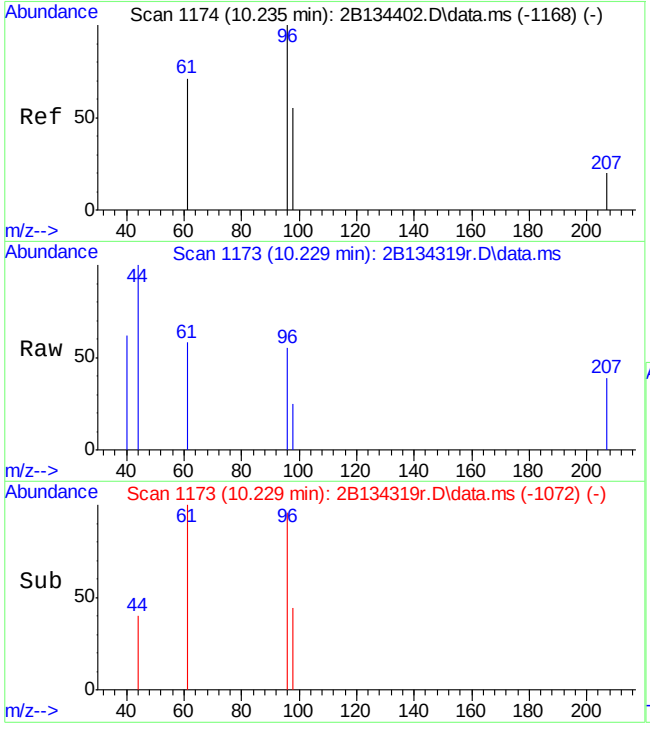


#34
methyl tert butyl ether
Concen: 0.47 ug/L
RT: 8.819 min Scan# 904
Delta R.T. 0.000 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion: 73 Resp: 3514

Ion	Ratio	Lower	Upper
73	100		
57	16.9	0.0	52.0

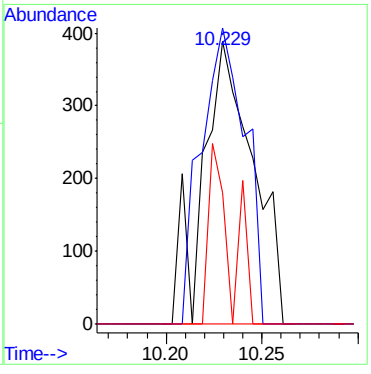


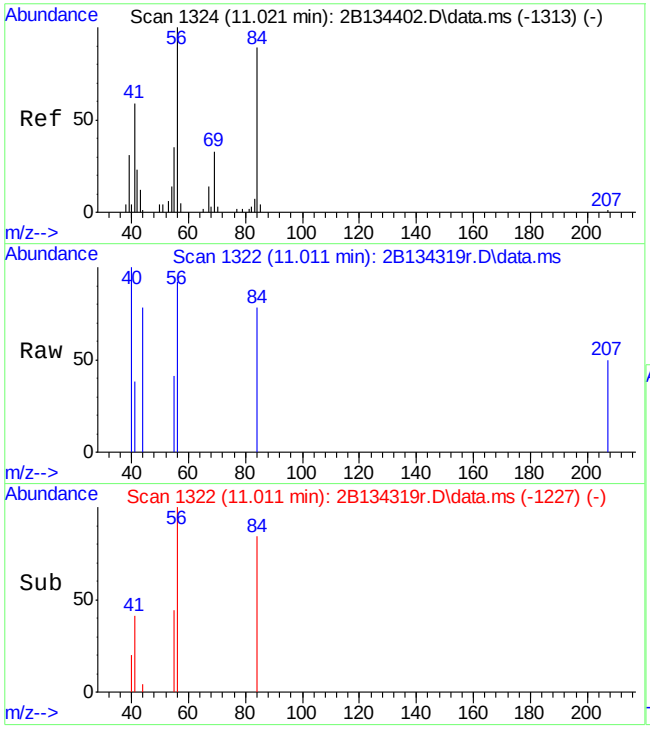


#45
cis-1,2-dichloroethene
Concen: 0.21 ug/L
RT: 10.229 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion: 96 Resp: 710

Ion	Ratio	Lower	Upper
96	100		
61	104.6	96.0	156.0
98	46.3	32.9	92.9

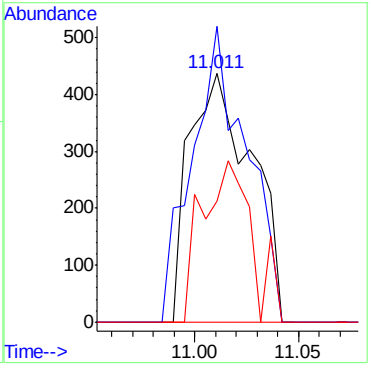


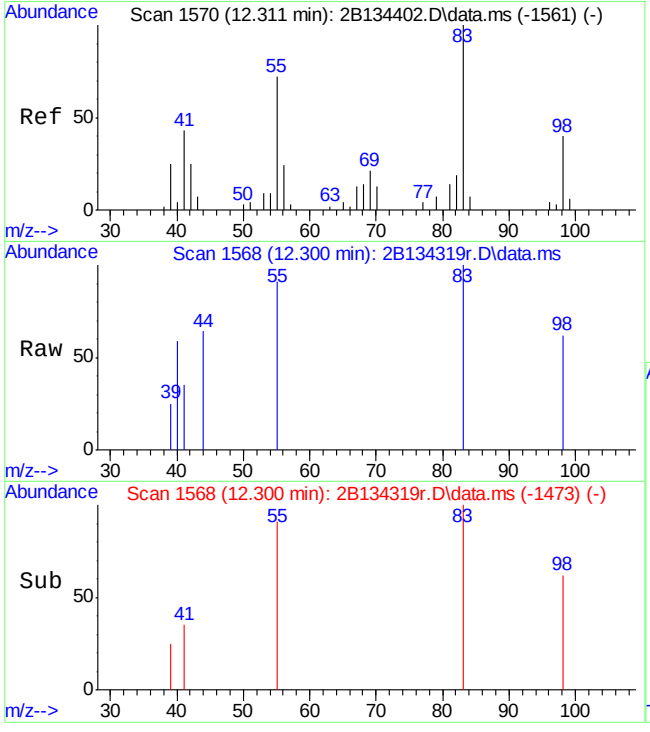


#56
Cyclohexane
Concen: 0.23 ug/L
RT: 11.011 min Scan# 1322
Delta R.T. -0.004 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion: 84 Resp: 917

Ion	Ratio	Lower	Upper
84	100		
56	118.7	195.8	255.8#
41	48.4	102.7	162.7#

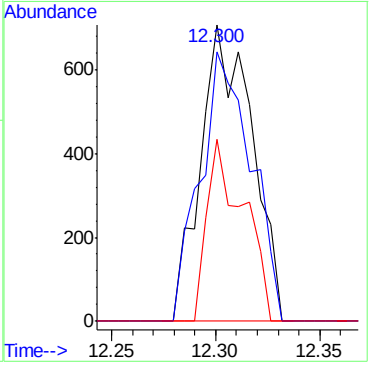


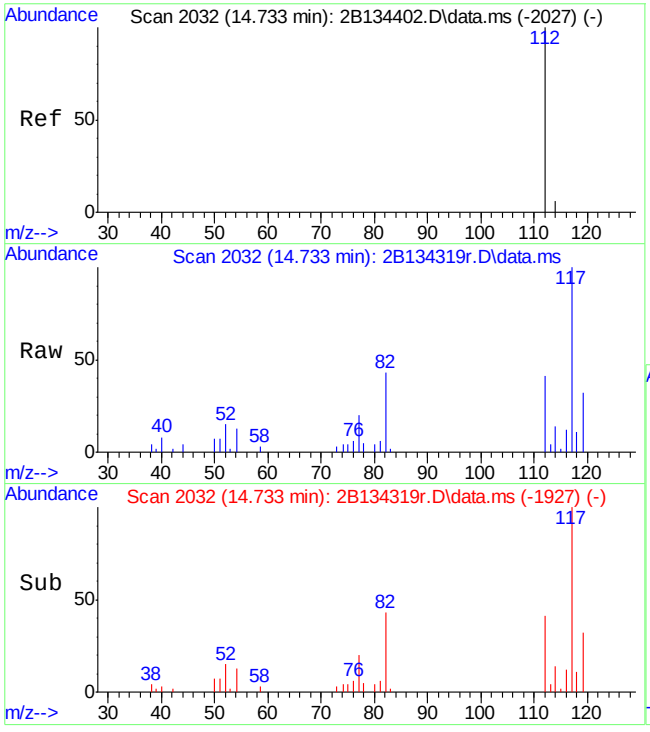


#79
methylcyclohexane
Concen: 0.29 ug/L
RT: 12.300 min Scan# 1568
Delta R.T. -0.005 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion: 83 Resp: 1218

Ion	Ratio	Lower	Upper
83	100		
55	90.8	47.5	107.5
98	61.6	14.4	74.4

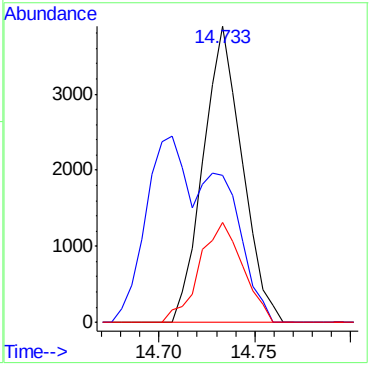


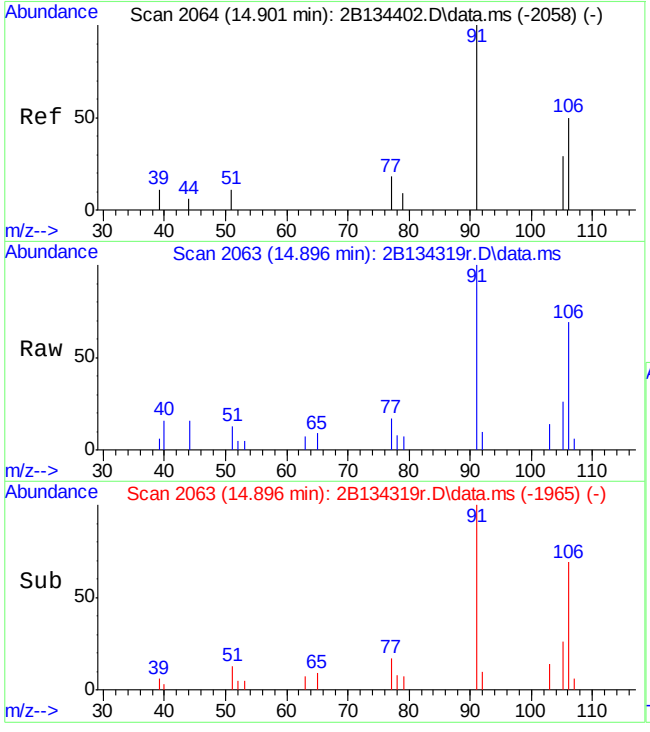


#98
chlorobenzene
Concen: 0.77 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion:112 Resp: 5483

Ion	Ratio	Lower	Upper
112	100		
77	49.8	23.5	83.5
114	33.8	1.6	61.6

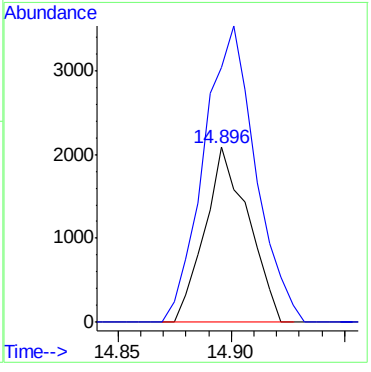


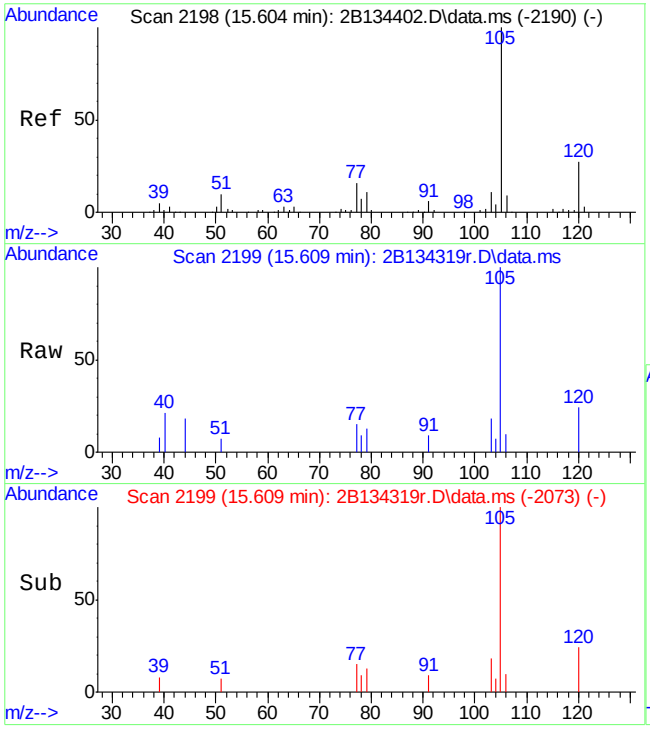


#101
m,p-xylene
Concen: 0.61 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion:106 Resp: 2783

Ion	Ratio	Lower	Upper
106	100		
91	145.6	159.7	219.7#

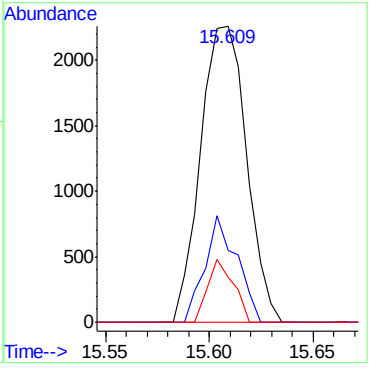


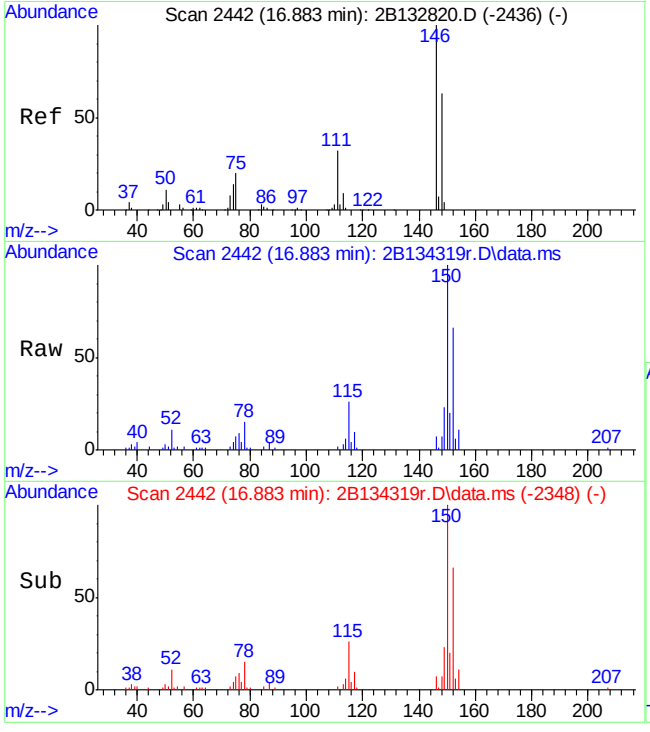


#107
isopropylbenzene
Concen: 0.31 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion:105 Resp: 3476

Ion	Ratio	Lower	Upper
105	100		
120	24.3	0.0	56.6
77	15.2	0.0	43.7

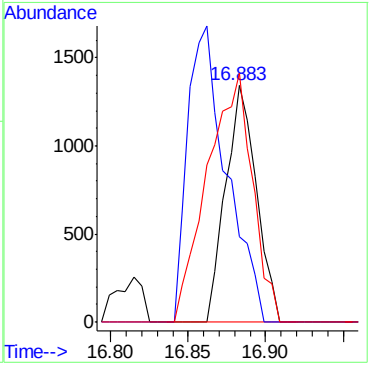


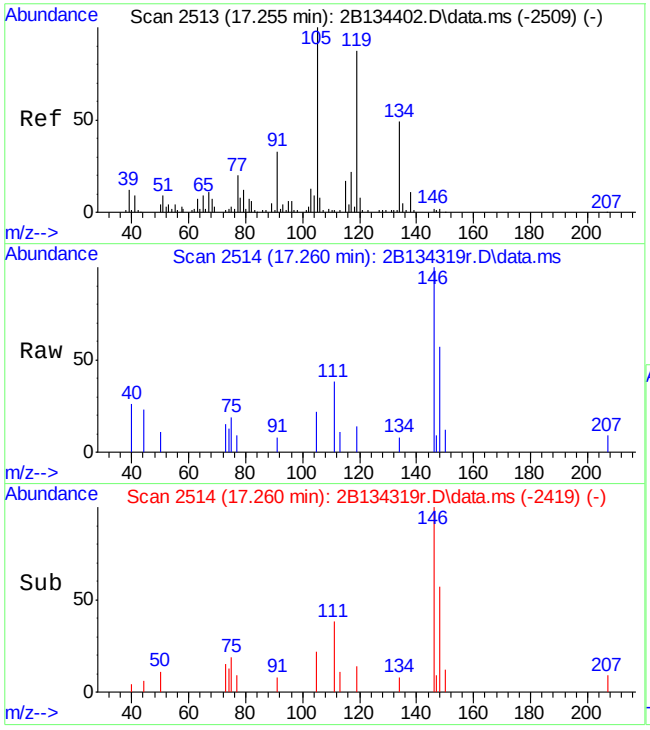


#124
1,4-dichlorobenzene
Concen: 0.30 ug/L m
RT: 16.883 min Scan# 2442
Delta R.T. -0.005 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion:146 Resp: 1853

Ion	Ratio	Lower	Upper
146	100		
111	36.0	2.0	62.0
148	104.9	35.5	95.5#

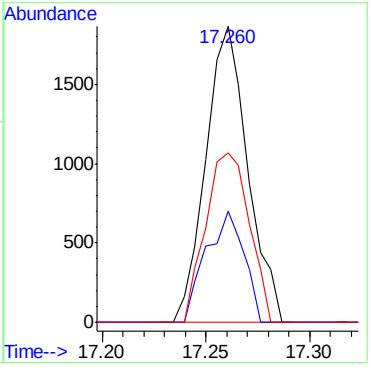




#125
1,2-dichlorobenzene
Concen: 0.43 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 2B134319r.D
Acq: 10 Sep 2015 7:43 pm

Tgt Ion:146 Resp: 2616

Ion	Ratio	Lower	Upper
146	100		
111	37.5	5.0	65.0
148	57.2	37.0	97.0



7.1.4

7

Manual Integration Approval Summary

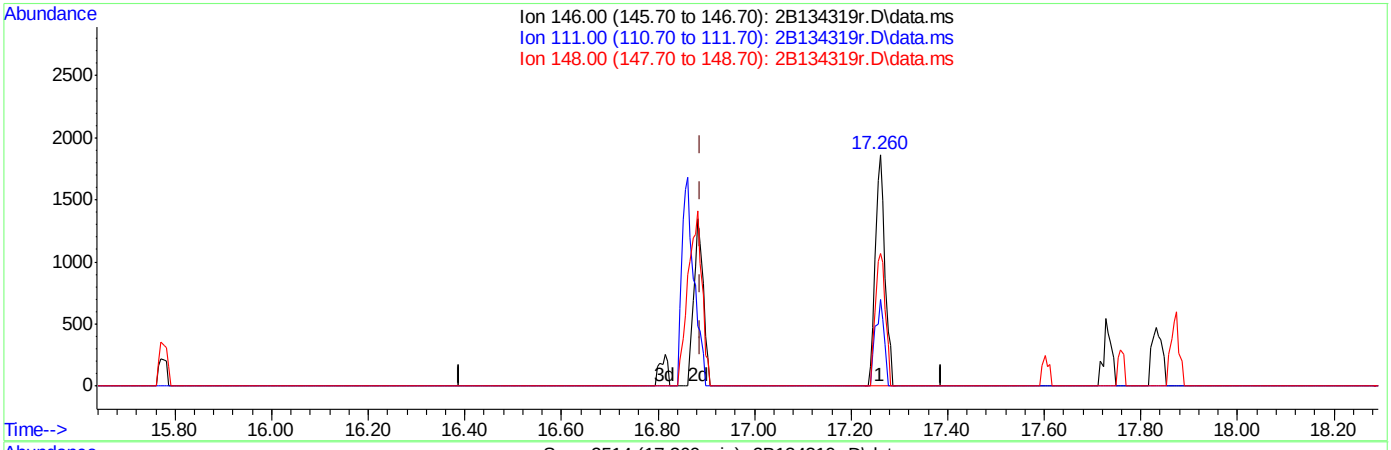
Sample Number:	JC3254-4R	**Method:**	SW846 8260C
Lab FileID:	2B134319R.D	**Analyst approved:**	12/18/15 17:19 Maricela Delgaolillo
Injection Time:	09/10/15 19:43	**Supervisor approved:**	12/18/15 18:03 Kanya Veerawat

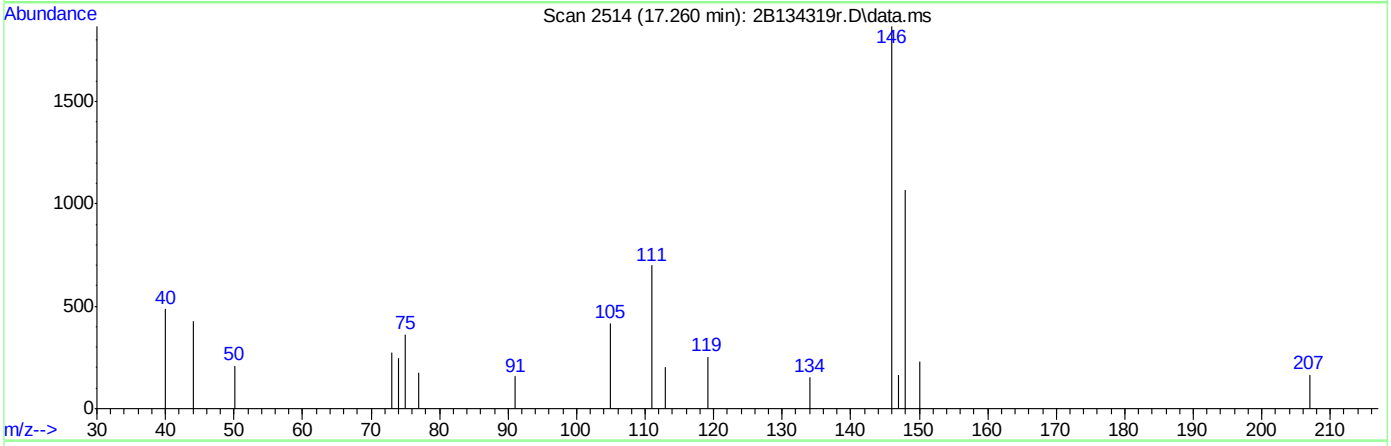
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dichlorobenzene	106-46-7		16.88	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\
Data File : 2B134319r.D
Acq On : 10 Sep 2015 7:43 pm
Operator : BridgetK
Sample : jc3254-4R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 18 17:14:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration





TIC: 2B134319r.D\data.ms

(124) 1,4-dichlorobenzene (M)

17.260min (+0.372) 0.42ug/L

response 2616

Ion	Exp%	Act%
146.00	100	100
111.00	32.00	37.51
148.00	65.50	57.23
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\
Data File : 2B134320r.D
Acq On : 10 Sep 2015 8:12 pm
Operator : BridgetK
Sample : jc3254-5R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 18 17:17:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

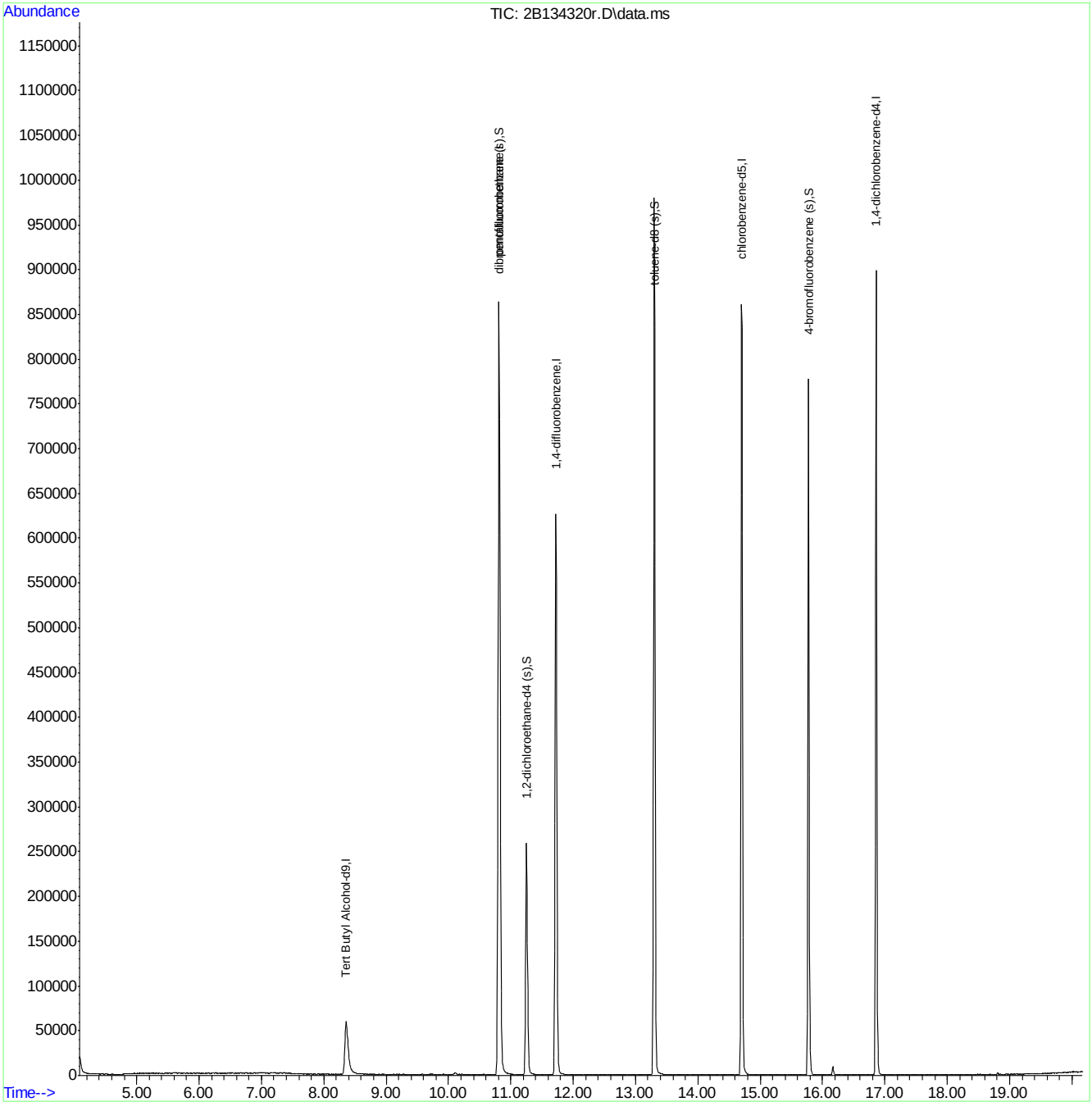
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	121579	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	552073	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	558952	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	467478	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	240748	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	195150	53.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.58%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	193561	51.36	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 102.72%			
82) toluene-d8 (s)	13.302	98	626358	52.62	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.24%			
108) 4-bromofluorobenzene (s)	15.776	95	204556	50.62	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 101.24%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\
Data File : 2B134320r.D
Acq On : 10 Sep 2015 8:12 pm
Operator : BridgetK
Sample : jc3254-5R
Misc : ms90889,v2B5985,w,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 18 17:17:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147889R.D
Acq On : 9 Sep 2015 12:55 pm
Operator : BridgetK
Sample : jc3254-6R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 17 11:59:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

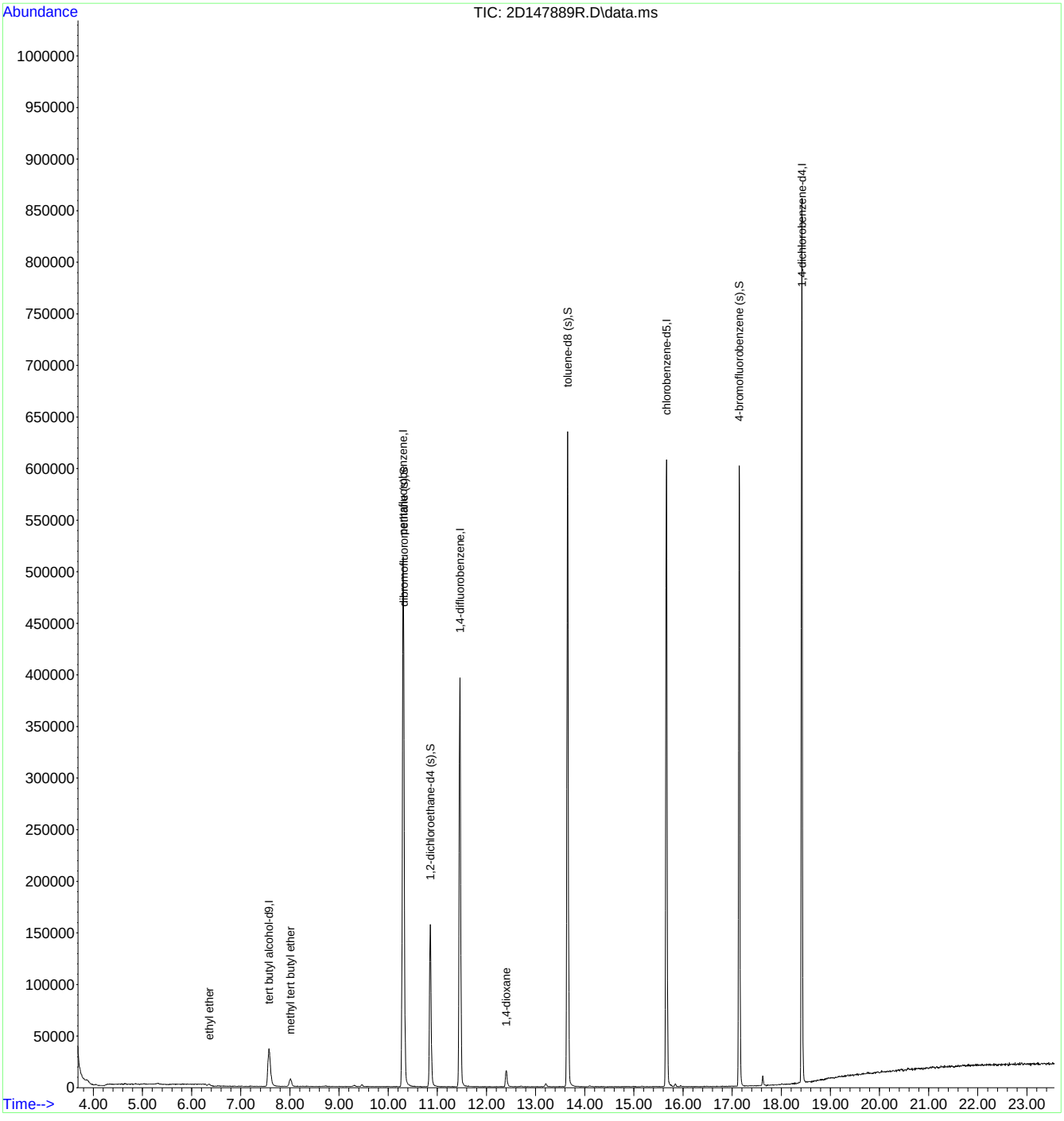
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	7.575	65	77587	500.00 ug/L	0.00
5) pentafluorobenzene	10.301	168	347740	50.00 ug/L	0.00
50) 1,4-difluorobenzene	11.460	114	389553	50.00 ug/L	0.01
78) chlorobenzene-d5	15.665	117	382505	50.00 ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.417	152	212575	50.00 ug/L	0.00
System Monitoring Compounds					
42) dibromofluoromethane (s)	10.317	113	130011	53.25 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 106.50%		
43) 1,2-dichloroethane-d4 (s)	10.857	65	137579	54.41 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 108.82%		
70) toluene-d8 (s)	13.651	98	477457	56.34 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 112.68%		
95) 4-bromofluorobenzene (s)	17.143	95	189415	56.24 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.48%		
Target Compounds					Qvalue
4) 1,4-dioxane	12.398	88	15738	833.12 ug/L	91
13) ethyl ether	6.358	74	783	0.66 ug/L #	61
25) methyl tert butyl ether	8.010	73	12479	1.75 ug/L	99

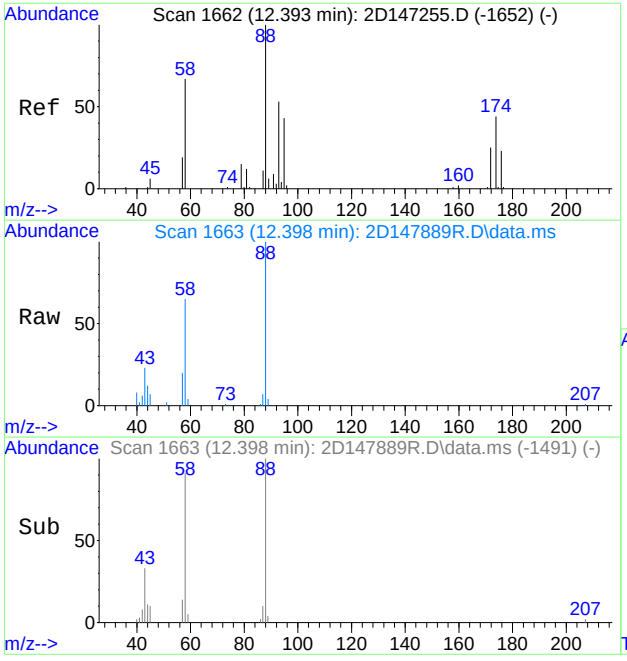
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147889R.D
Acq On : 9 Sep 2015 12:55 pm
Operator : BridgetK
Sample : jc3254-6R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 17 11:59:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

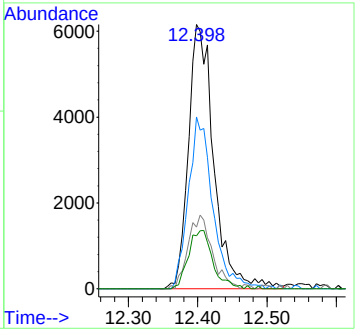


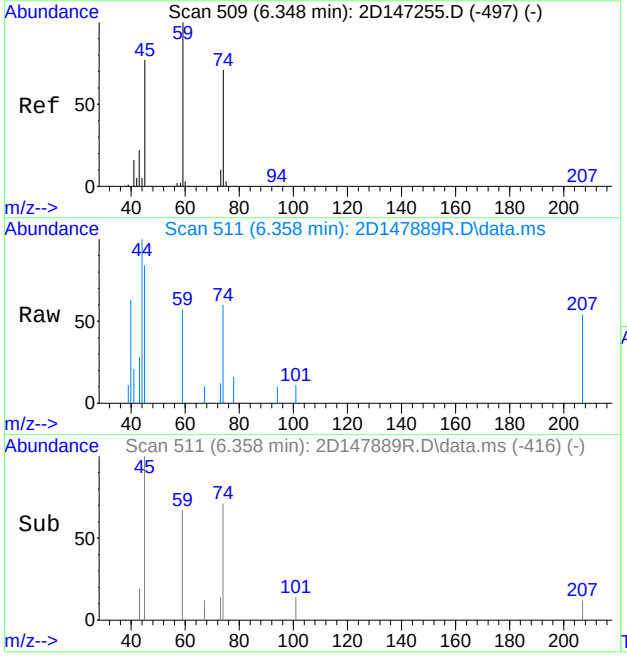


#4
1,4-dioxane
Concen: 833.12 ug/L
RT: 12.398 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 2D147889R.D
Acq: 9 Sep 2015 12:55 pm

Tgt Ion: 88 Resp: 15738

Ion	Ratio	Lower	Upper
88	100		
58	62.3	37.3	97.3
43	26.4	0.0	30.0
57	21.2	0.0	59.5

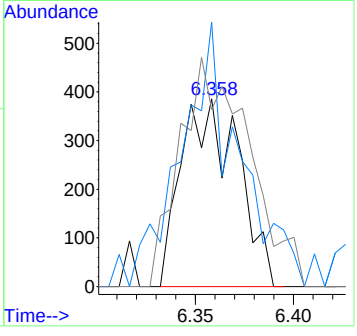


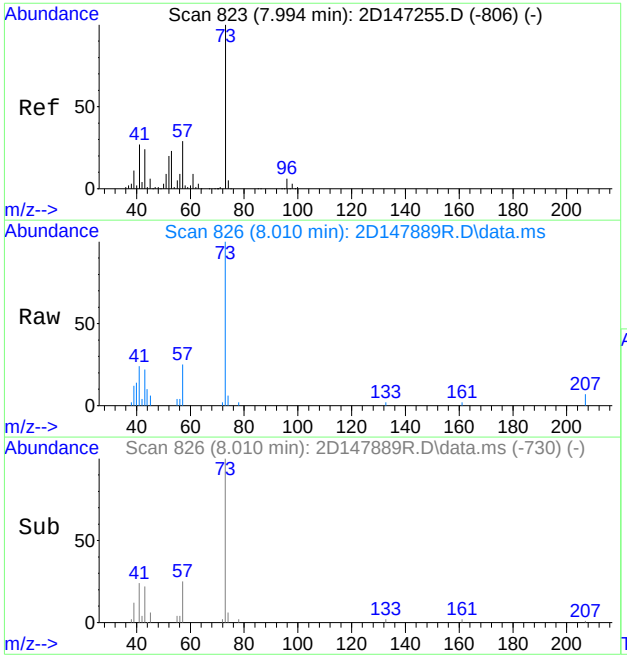


#13
ethyl ether
Concen: 0.66 ug/L
RT: 6.358 min Scan# 511
Delta R.T. 0.000 min
Lab File: 2D147889R.D
Acq: 9 Sep 2015 12:55 pm

Tgt Ion: 74 Resp: 783

Ion	Ratio	Lower	Upper
74	100		
45	117.4	101.5	161.5
59	69.9	120.2	180.2#

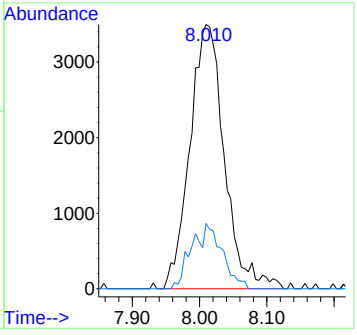




#25
methyl tert butyl ether
Concen: 1.75 ug/L
RT: 8.010 min Scan# 826
Delta R.T. 0.005 min
Lab File: 2D147889R.D
Acq: 9 Sep 2015 12:55 pm

Tgt Ion: 73 Resp: 12479

Ion	Ratio	Lower	Upper
73	100		
57	21.9	0.0	52.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147890R.D
Acq On : 9 Sep 2015 1:25 pm
Operator : BridgetK
Sample : jc3254-7R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 17 13:10:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

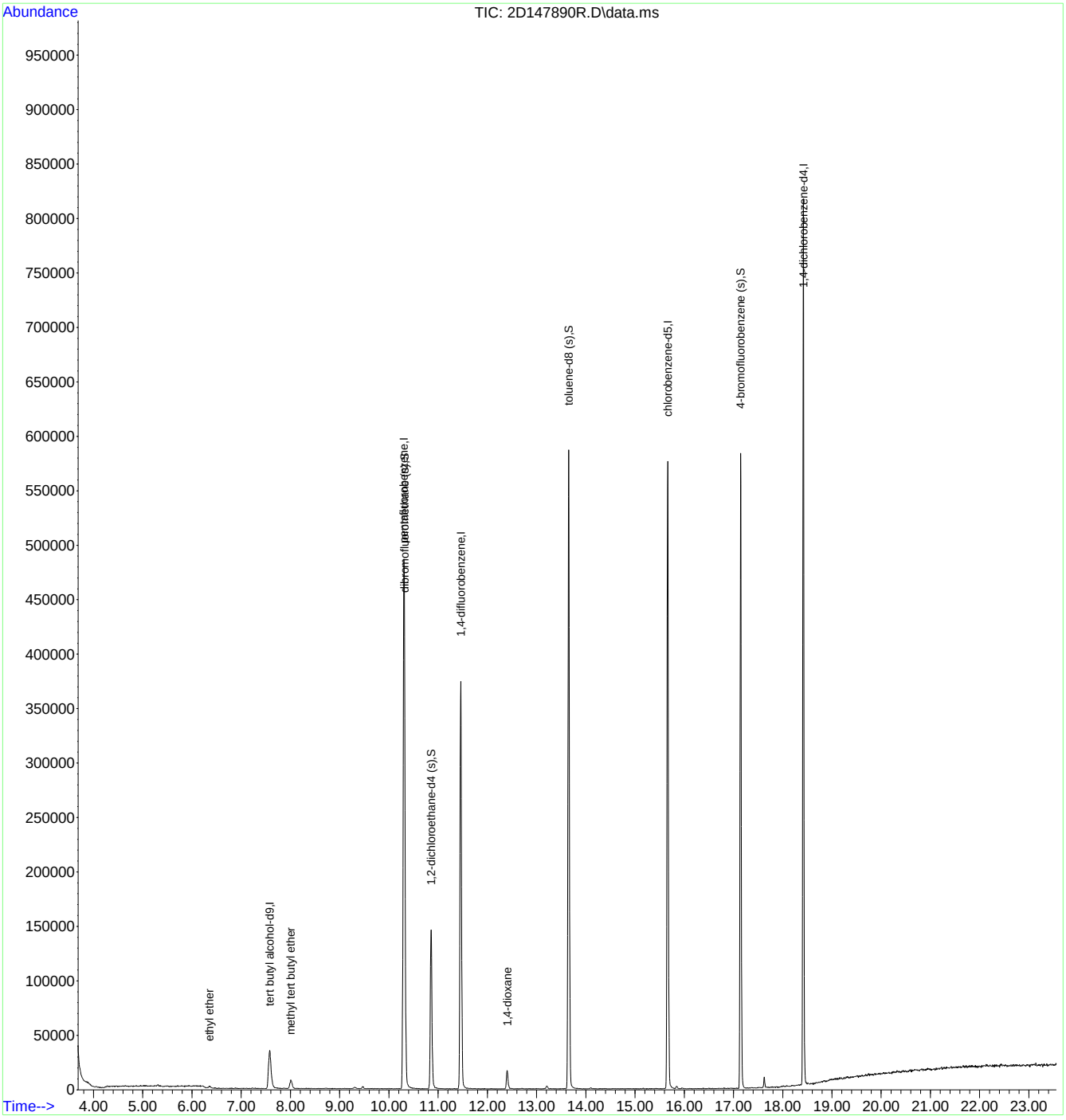
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.580	65	73640	500.00	ug/L	0.00
5) pentafluorobenzene	10.301	168	330802	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.460	114	364122	50.00	ug/L	0.01
78) chlorobenzene-d5	15.665	117	354577	50.00	ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.417	152	203360	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	10.317	113	126456	54.45	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.90%			
43) 1,2-dichloroethane-d4 (s)	10.857	65	129721	53.93	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 107.86%			
70) toluene-d8 (s)	13.651	98	443445	55.98	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 111.96%			
95) 4-bromofluorobenzene (s)	17.143	95	178314	55.34	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.68%			
Target Compounds						Qvalue
4) 1,4-dioxane	12.404	88	14915	831.87	ug/L #	95
13) ethyl ether	6.353	74	825	0.74	ug/L #	71
25) methyl tert butyl ether	8.005	73	12133	1.79	ug/L	99

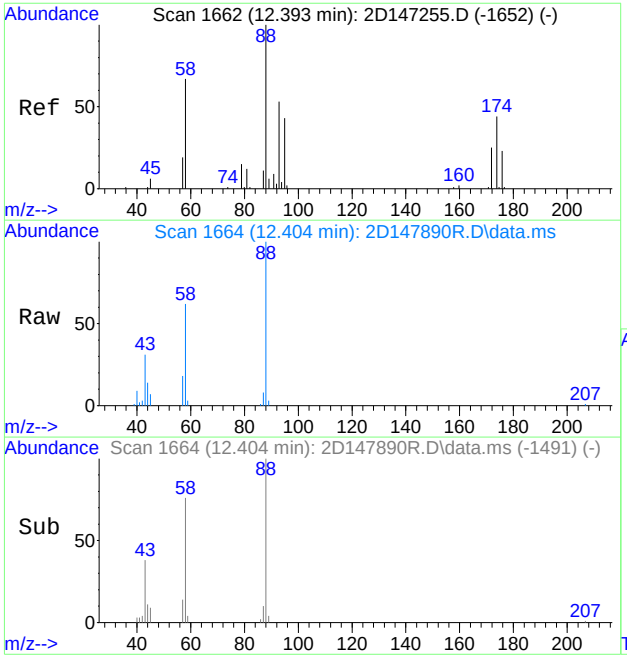
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147890R.D
Acq On : 9 Sep 2015 1:25 pm
Operator : BridgetK
Sample : jc3254-7R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 17 13:10:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

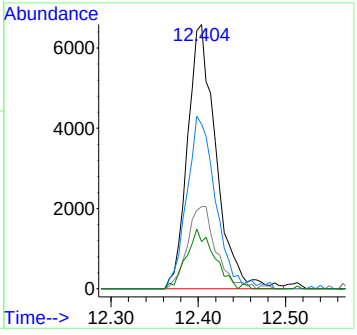


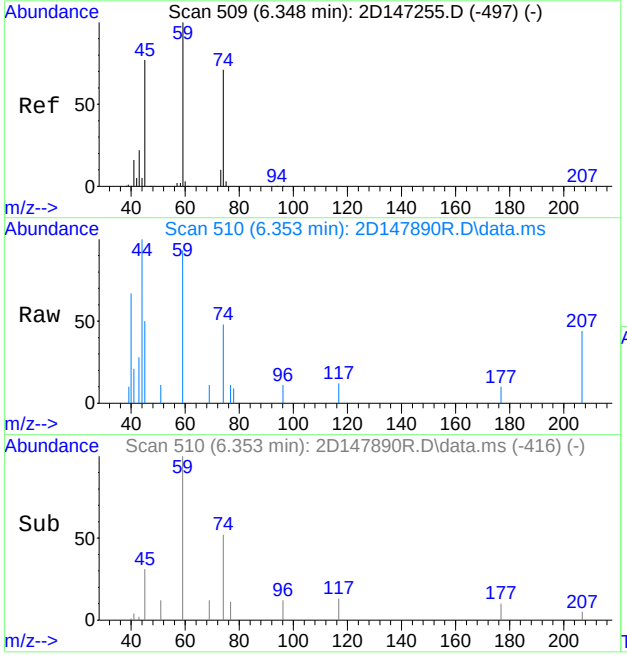


#4
1,4-dioxane
Concen: 831.87 ug/L
RT: 12.404 min Scan# 1664
Delta R.T. 0.006 min
Lab File: 2D147890R.D
Acq: 9 Sep 2015 1:25 pm

Tgt Ion: 88 Resp: 14915

Ion	Ratio	Lower	Upper
88	100		
58	66.5	37.3	97.3
43	31.5	0.0	30.0#
57	21.9	0.0	59.5

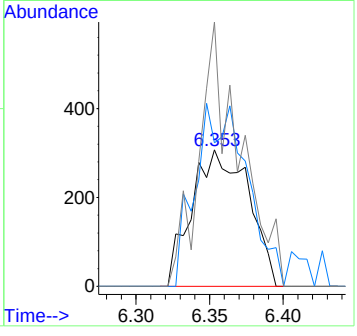


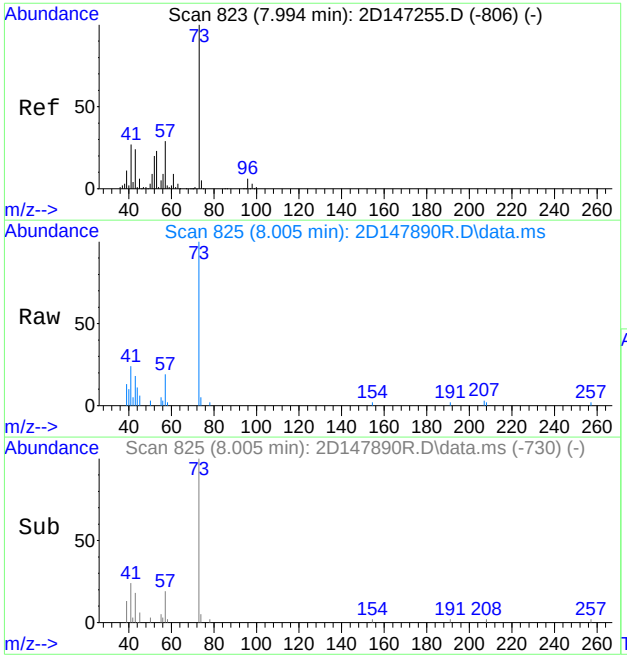


#13
ethyl ether
Concen: 0.74 ug/L
RT: 6.353 min Scan# 510
Delta R.T. -0.005 min
Lab File: 2D147890R.D
Acq: 9 Sep 2015 1:25 pm

Tgt Ion: 74 Resp: 825

Ion	Ratio	Lower	Upper
74	100		
45	105.2	101.5	161.5
59	193.8	120.2	180.2#

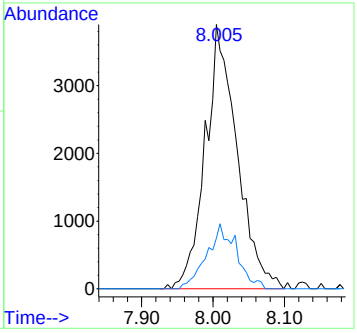




#25
methyl tert butyl ether
Concen: 1.79 ug/L
RT: 8.005 min Scan# 825
Delta R.T. -0.000 min
Lab File: 2D147890R.D
Acq: 9 Sep 2015 1:25 pm

Tgt Ion: 73 Resp: 12133

Ion	Ratio	Lower	Upper
73	100		
57	22.7	0.0	52.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147891R.D
Acq On : 9 Sep 2015 1:56 pm
Operator : BridgetK
Sample : jc3254-8R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 17 12:00:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

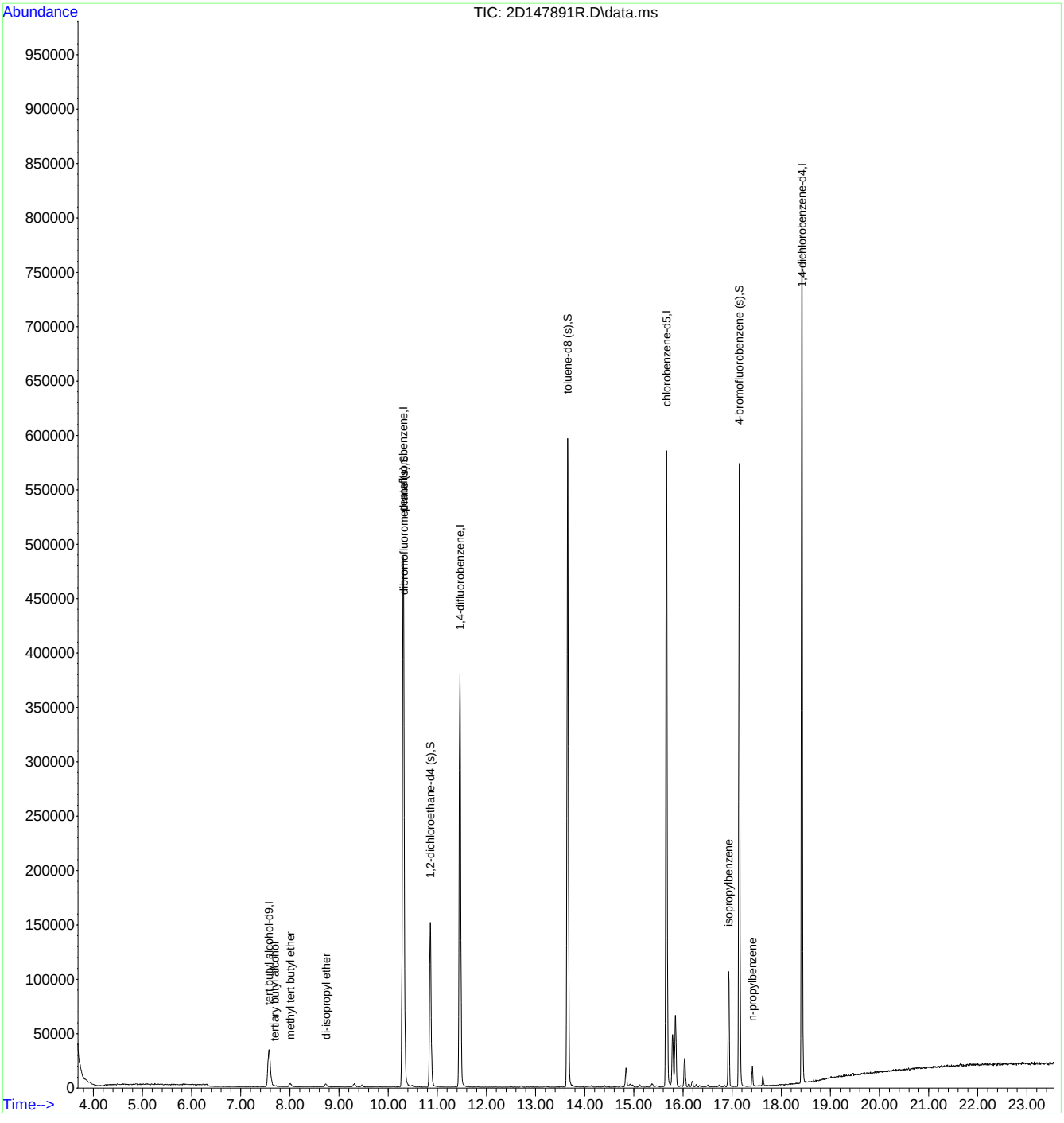
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	7.575	65	71567	500.00 ug/L	0.00
5) pentafluorobenzene	10.306	168	331475	50.00 ug/L	0.01
50) 1,4-difluorobenzene	11.460	114	374343	50.00 ug/L	0.01
78) chlorobenzene-d5	15.665	117	364327	50.00 ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.417	152	203391	50.00 ug/L	0.00
System Monitoring Compounds					
42) dibromofluoromethane (s)	10.317	113	123699	53.15 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 106.30%		
43) 1,2-dichloroethane-d4 (s)	10.857	65	132149	54.83 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 109.66%		
70) toluene-d8 (s)	13.651	98	454248	55.77 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 111.54%		
95) 4-bromofluorobenzene (s)	17.143	95	180018	55.86 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.72%		
Target Compounds					Qvalue
2) tertiary butyl alcohol	7.690	59	1104	6.13 ug/L	86
25) methyl tert butyl ether	8.010	73	5064	0.75 ug/L	91
27) di-isopropyl ether	8.733	45	3440	0.39 ug/L #	57
94) isopropylbenzene	16.928	105	70633	5.80 ug/L	98
101) n-propylbenzene	17.411	91	13664	1.01 ug/L	97

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

Quantitation Report (QT Reviewed)

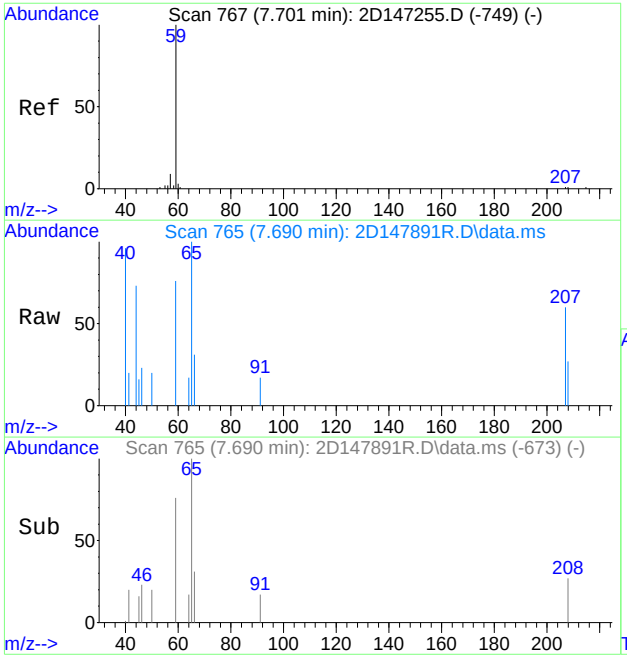
Data Path : C:\msdchem\1\DATA\2D\data retrieval\12-11-15\
Data File : 2D147891R.D
Acq On : 9 Sep 2015 1:56 pm
Operator : BridgetK
Sample : jc3254-8R
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 17 12:00:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration



M2D6180.M Thu Dec 17 13:11:50 2015 ACC-VOA-DP

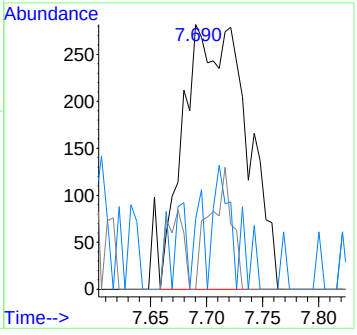
Page: 2

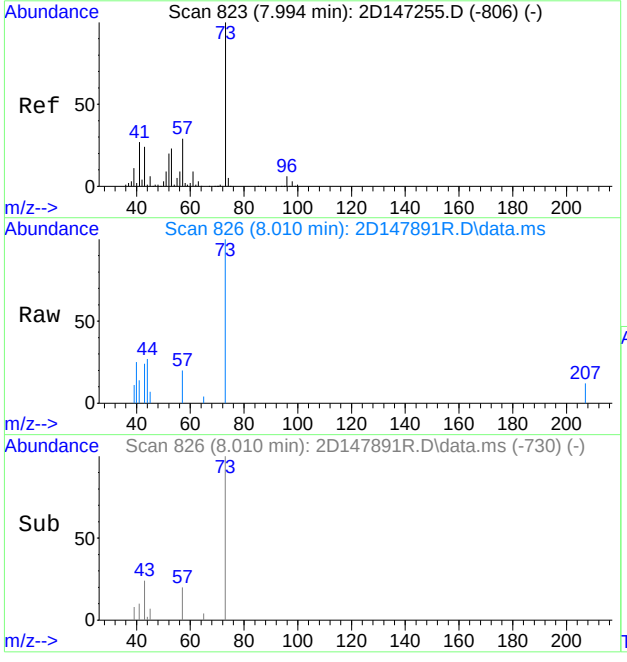


#2
tertiary butyl alcohol
Concen: 6.13 ug/L
RT: 7.690 min Scan# 765
Delta R.T. -0.016 min
Lab File: 2D147891R.D
Acq: 9 Sep 2015 1:56 pm

Tgt Ion: 59 Resp: 1104

Ion	Ratio	Lower	Upper
59	100		
41	26.6	0.0	57.3
43	0.0	0.0	45.7

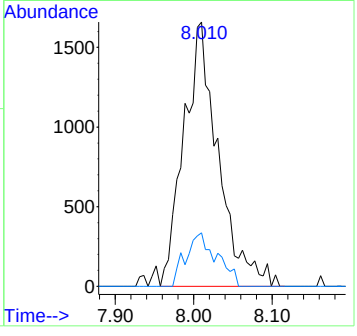


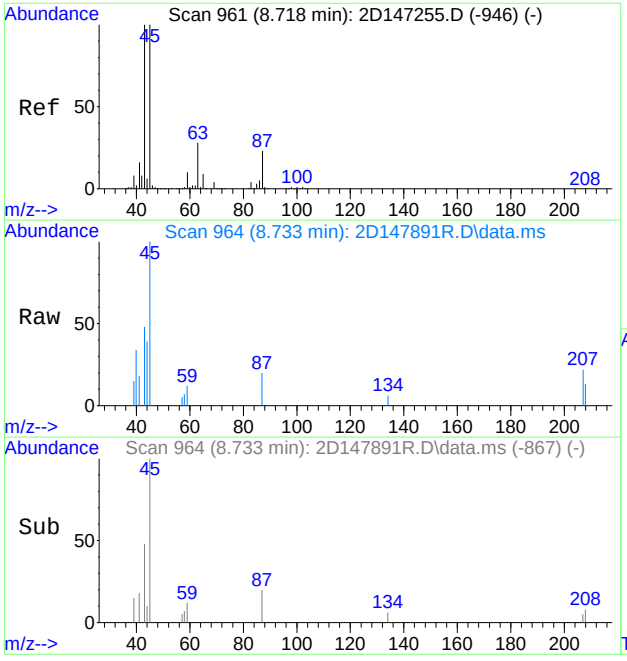


#25
methyl tert butyl ether
Concen: 0.75 ug/L
RT: 8.010 min Scan# 826
Delta R.T. 0.005 min
Lab File: 2D147891R.D
Acq: 9 Sep 2015 1:56 pm

Tgt Ion: 73 Resp: 5064

Ion	Ratio	Lower	Upper
73	100		
57	18.2	0.0	52.4

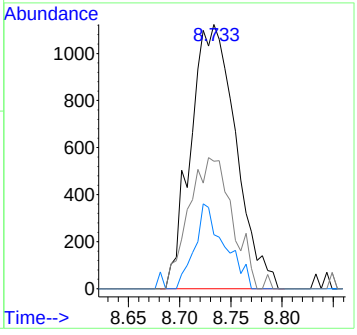


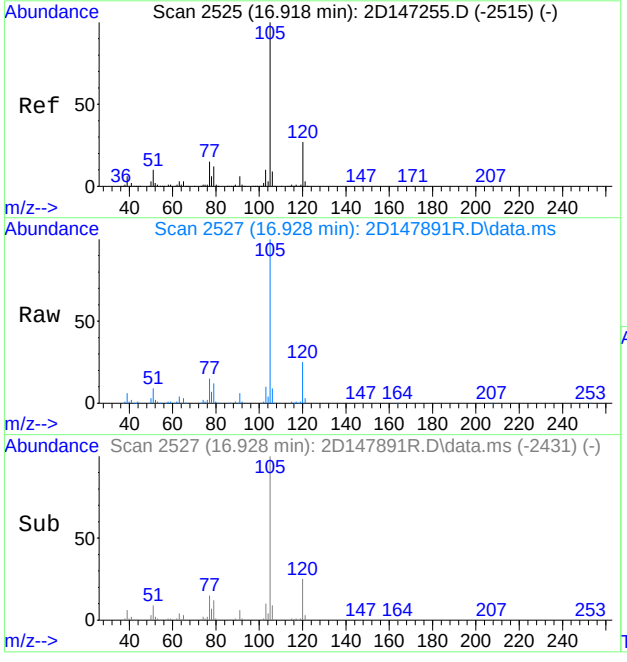


#27
di-isopropyl ether
Concen: 0.39 ug/L
RT: 8.733 min Scan# 964
Delta R.T. 0.010 min
Lab File: 2D147891R.D
Acq: 9 Sep 2015 1:56 pm

Tgt Ion: 45 Resp: 3440

Ion	Ratio	Lower	Upper
45	100		
87	20.5	0.0	52.0
43	48.2	70.1	130.1#

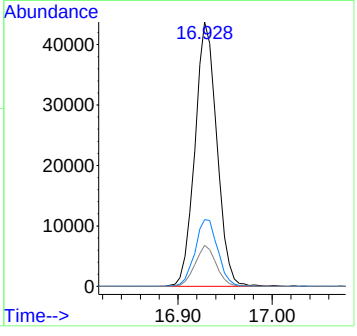


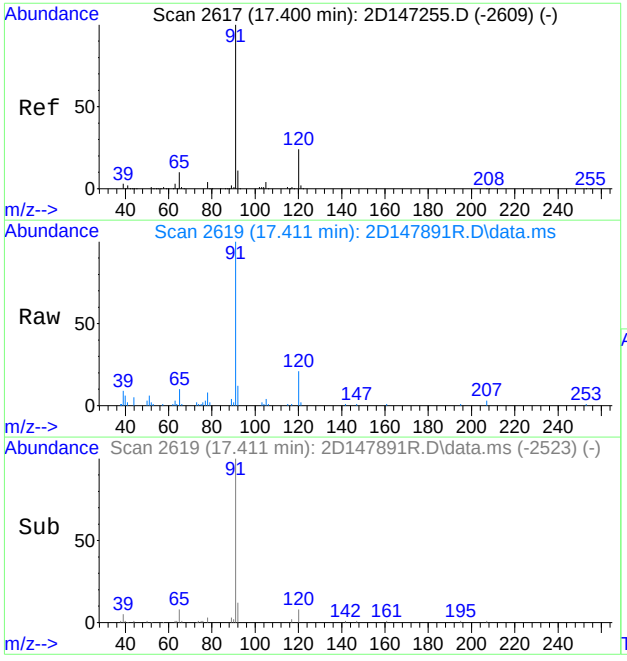


#94
isopropylbenzene
Concen: 5.80 ug/L
RT: 16.928 min Scan# 2527
Delta R.T. 0.005 min
Lab File: 2D147891R.D
Acq: 9 Sep 2015 1:56 pm

Tgt Ion:105 Resp: 70633

Ion	Ratio	Lower	Upper
105	100		
120	25.3	0.0	56.5
77	15.5	0.0	44.8

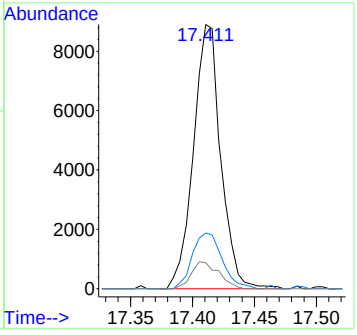




#101
n-propylbenzene
Concen: 1.01 ug/L
RT: 17.411 min Scan# 2619
Delta R.T. 0.005 min
Lab File: 2D147891R.D
Acq: 9 Sep 2015 1:56 pm

Tgt Ion: 91 Resp: 13664

Ion	Ratio	Lower	Upper
91	100		
120	21.1	0.0	53.4
65	9.8	0.0	40.0



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5996\
Data File : 2B134560r.D
Acq On : 17 Sep 2015 3:31 pm
Operator : BridgetK
Sample : jc3254-9R
Misc : ms90889,v2B5996,w,,,,100
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 21 15:36:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

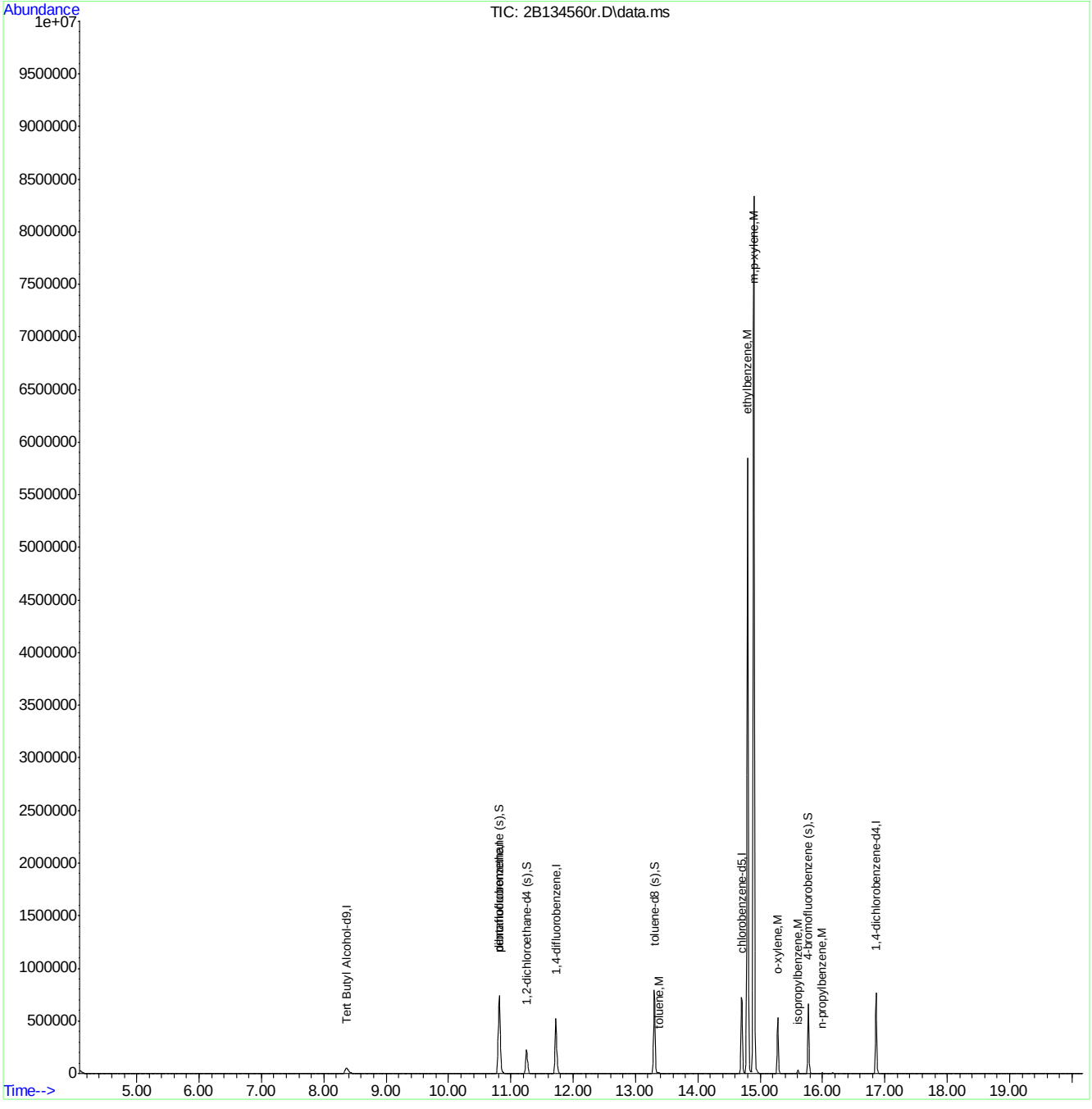
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	95078	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	447394	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	428562	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	353184	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	191089	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	156715	52.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.60%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	181715	59.49	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 118.98%			
82) toluene-d8 (s)	13.302	98	479712	52.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.12%			
108) 4-bromofluorobenzene (s)	15.771	95	166340	51.86	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.72%			
Target Compounds						Qvalue
84) toluene	13.375	92	2489	0.50	ug/L #	76
100) ethylbenzene	14.796	91	3624894	428.74	ug/L	98
101) m,p-xylene	14.896	106	2237028	667.19	ug/L	99
102) o-xylene	15.284	106	127738	36.20	ug/L	91
107) isopropylbenzene	15.603	105	21704	2.51	ug/L	95
114) n-propylbenzene	15.986	91	5567	0.60	ug/L	94

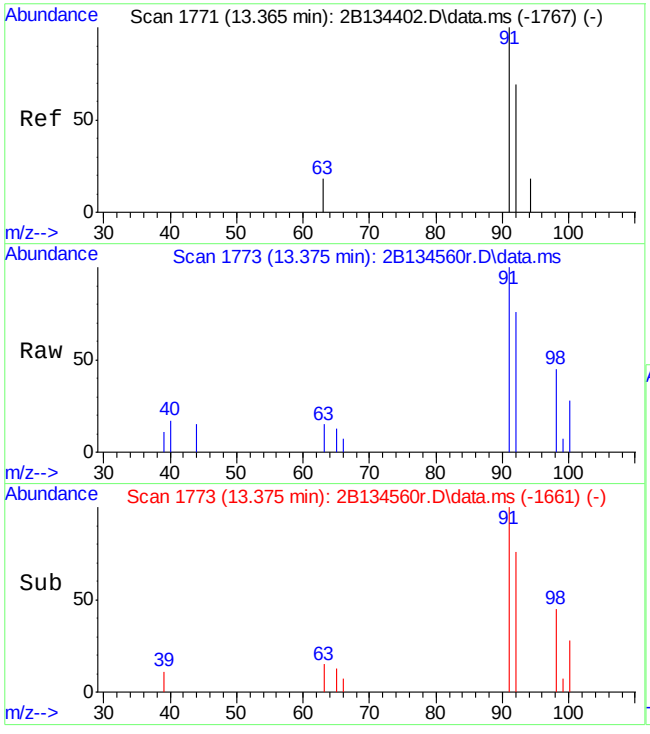
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5996\
Data File : 2B134560r.D
Acq On : 17 Sep 2015 3:31 pm
Operator : BridgetK
Sample : jc3254-9R
Misc : ms90889,v2B5996,w,,,,100
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 21 15:36:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

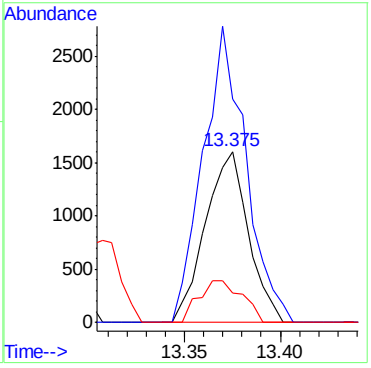


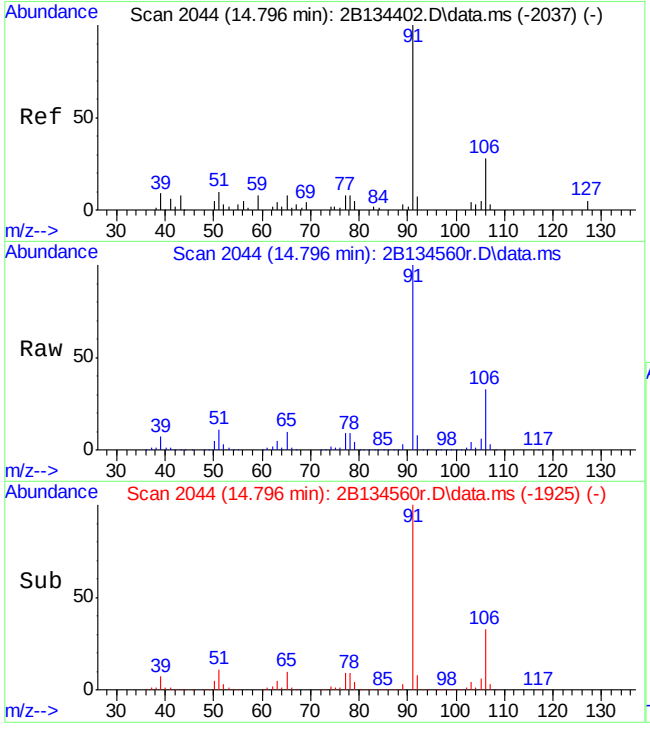


#84
toluene
Concen: 0.50 ug/L
RT: 13.375 min Scan# 1773
Delta R.T. 0.005 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion: 92 Resp: 2489

Ion	Ratio	Lower	Upper
92	100		
91	130.8	137.1	197.1#
65	16.8	0.0	48.1

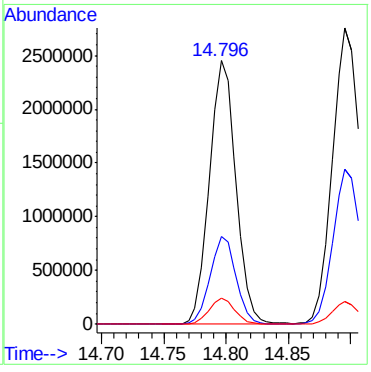


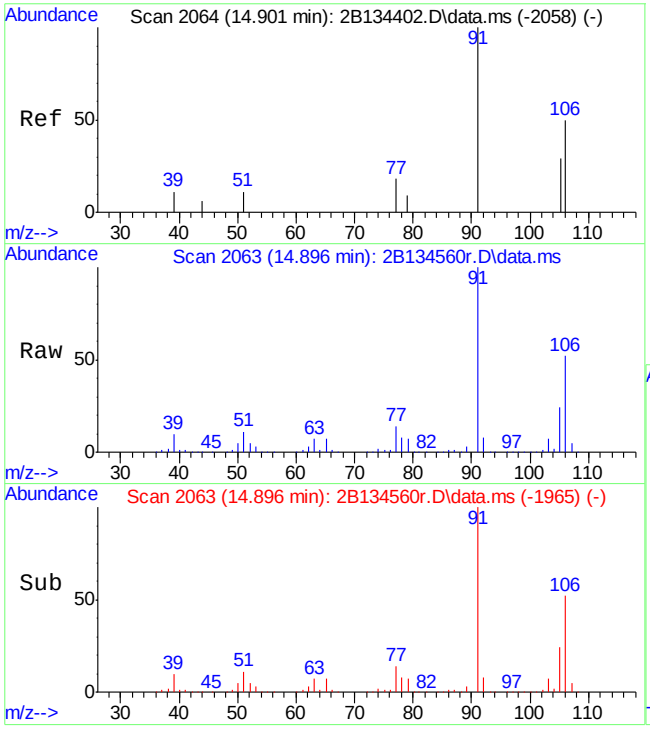


#100
ethylbenzene
Concen: 428.74 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion: 91 Resp: 3624894

Ion	Ratio	Lower	Upper
91	100		
106	33.2	2.4	62.4
65	9.7	0.0	38.1

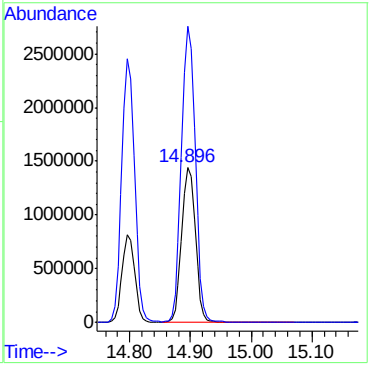


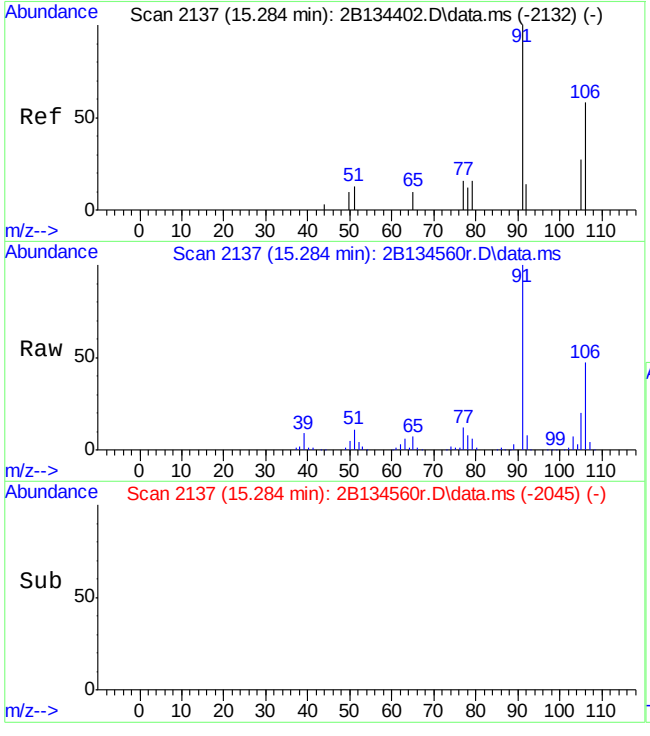


#101
m,p-xylene
Concen: 667.19 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion:106 Resp: 2237028

Ion	Ratio	Lower	Upper
106	100		
91	191.0	159.7	219.7

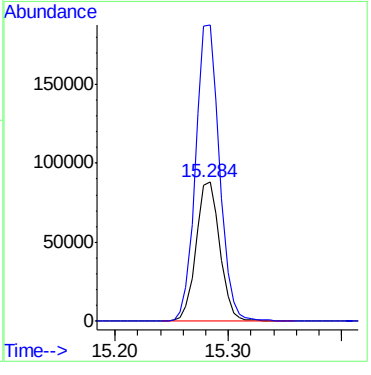


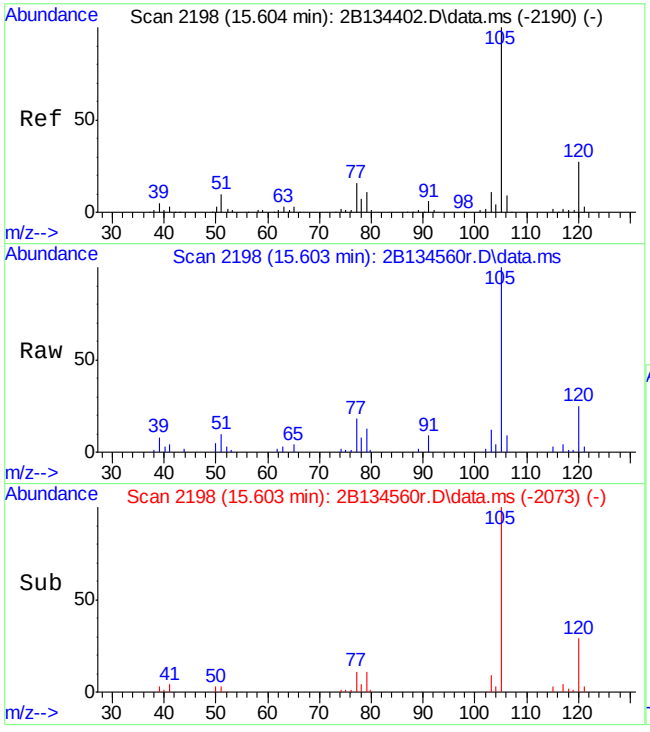


#102
o-xylene
Concen: 36.20 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion:106 Resp: 127738

Ion	Ratio	Lower	Upper
106	100		
91	213.3	170.1	230.1

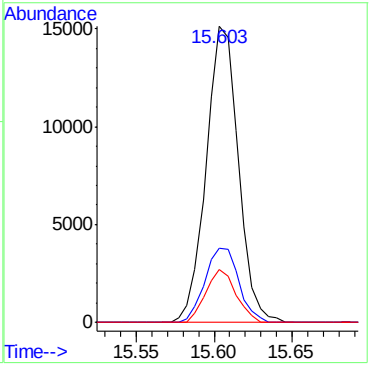


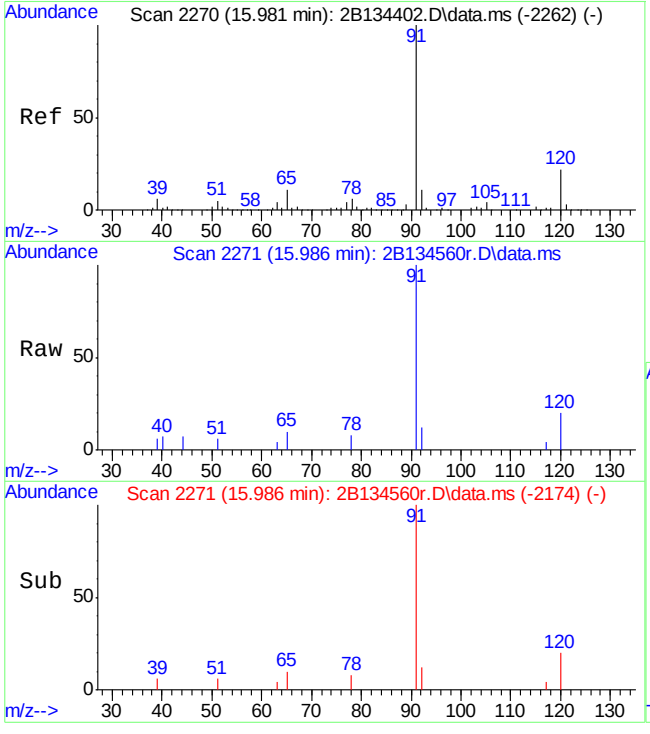


#107
isopropylbenzene
Concen: 2.51 ug/L
RT: 15.603 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion:105 Resp: 21704

Ion	Ratio	Lower	Upper
105	100		
120	25.1	0.0	56.6
77	17.8	0.0	43.7

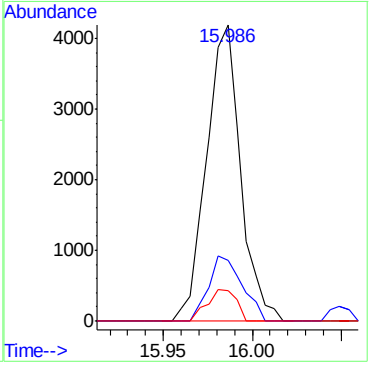




#114
n-propylbenzene
Concen: 0.60 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. -0.000 min
Lab File: 2B134560r.D
Acq: 17 Sep 2015 3:31 pm

Tgt Ion: 91 Resp: 5567

Ion	Ratio	Lower	Upper
91	100		
120	20.4	0.0	54.2
65	10.3	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5996\
Data File : 2B134561r.D
Acq On : 17 Sep 2015 3:59 pm
Operator : BridgetK
Sample : jc3254-9R
Misc : ms90889,v2B5996,w,,,,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 21 15:38:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

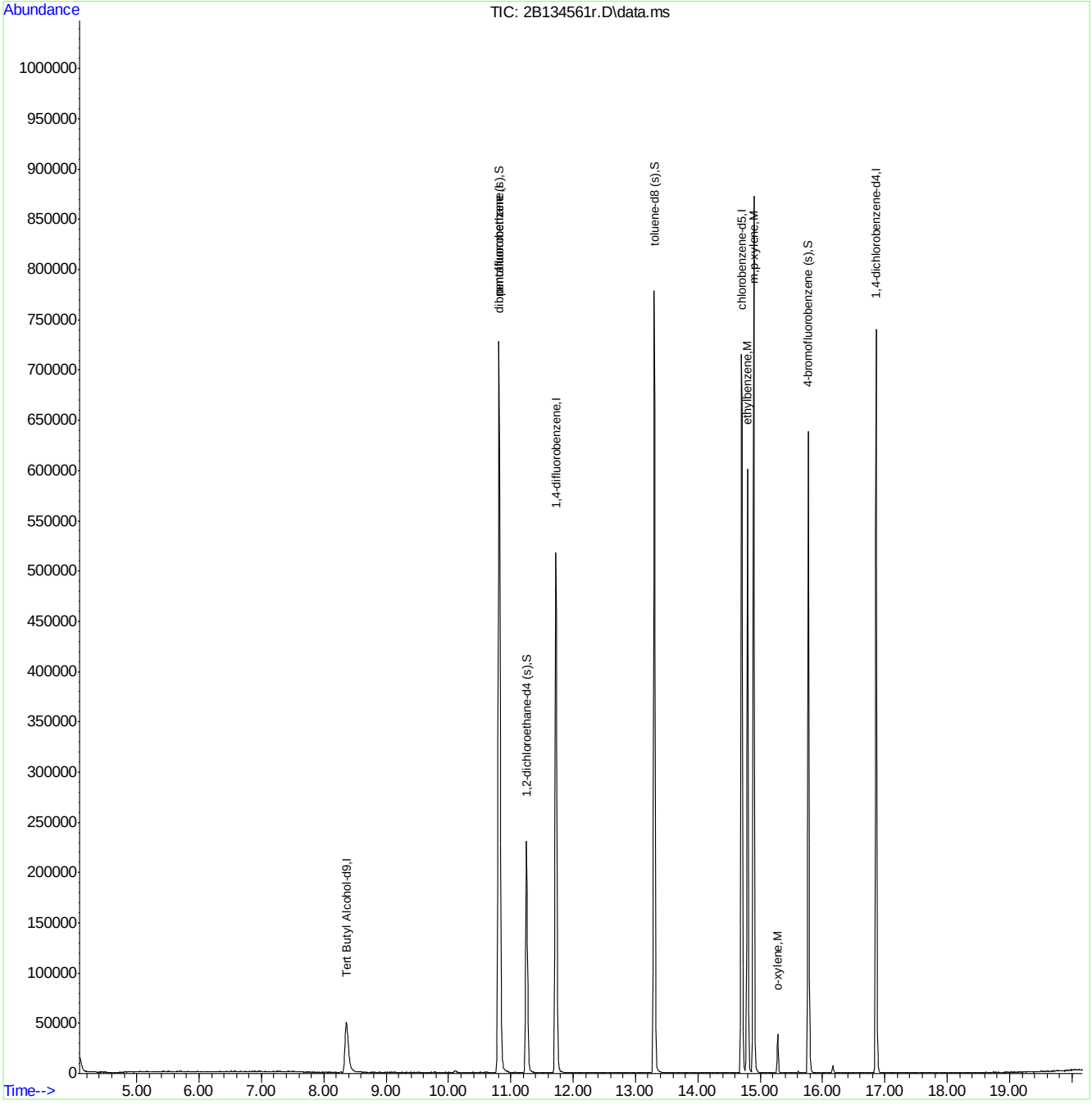
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	98744	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	441261	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	424209	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	345534	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	182238	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	154302	52.71	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.42%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	179808	59.69	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 119.38%			
82) toluene-d8 (s)	13.302	98	465261	51.50	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.00%			
108) 4-bromofluorobenzene (s)	15.771	95	158116	51.69	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.38%			
Target Compounds						Qvalue
100) ethylbenzene	14.796	91	370884	44.84	ug/L	100
101) m,p-xylene	14.896	106	227078	69.22	ug/L	92
102) o-xylene	15.284	106	9318	2.70	ug/L	90

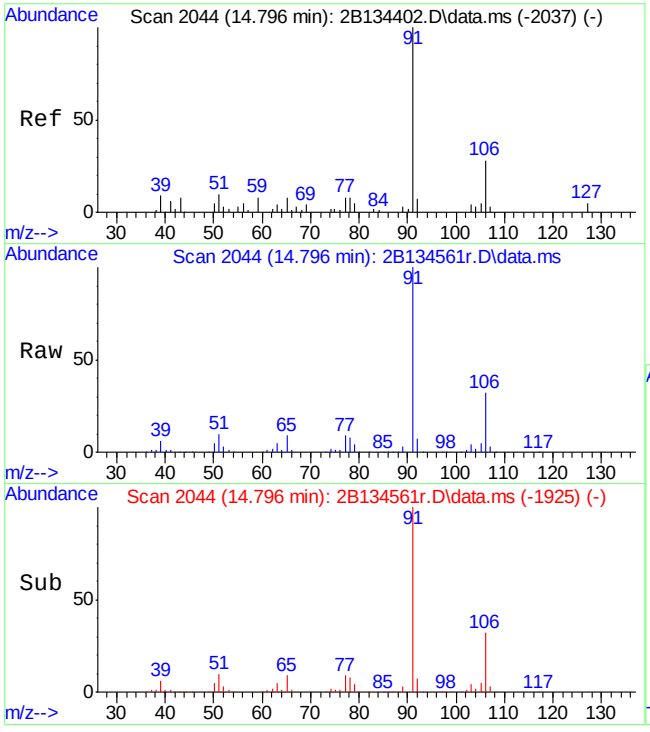
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5996\
Data File : 2B134561r.D
Acq On : 17 Sep 2015 3:59 pm
Operator : BridgetK
Sample : jc3254-9R
Misc : ms90889,v2B5996,w,,,,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 21 15:38:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

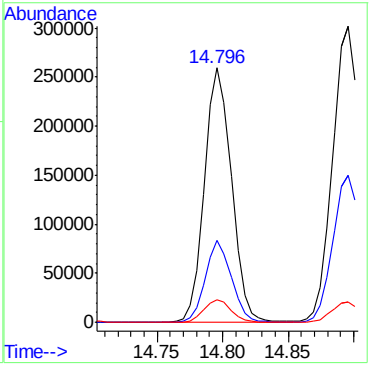


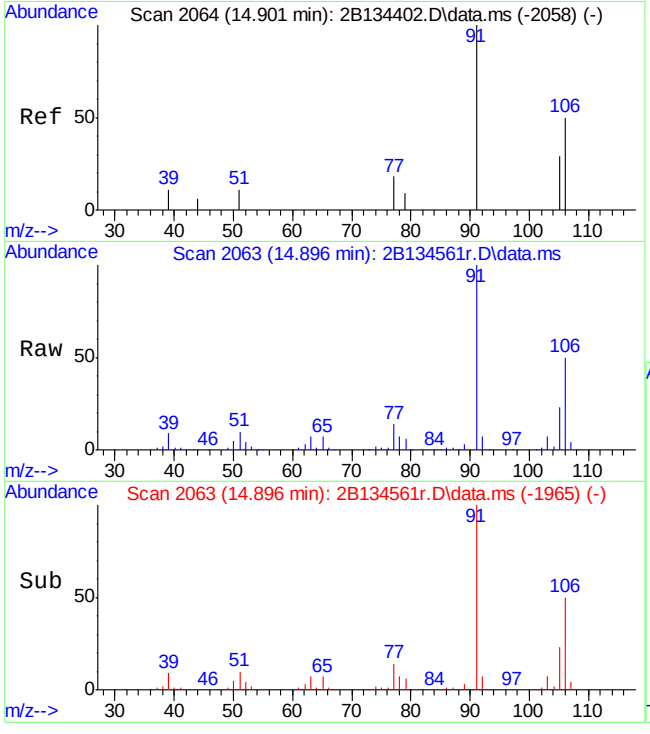


#100
ethylbenzene
Concen: 44.84 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134561r.D
Acq: 17 Sep 2015 3:59 pm

Tgt Ion: 91 Resp: 370884

Ion	Ratio	Lower	Upper
91	100		
106	32.4	2.4	62.4
65	8.7	0.0	38.1

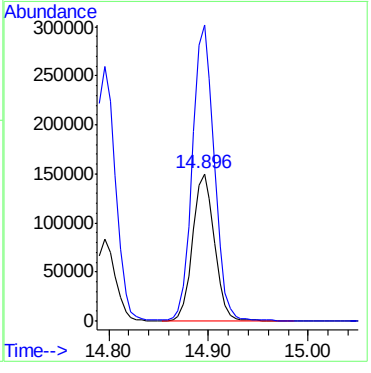


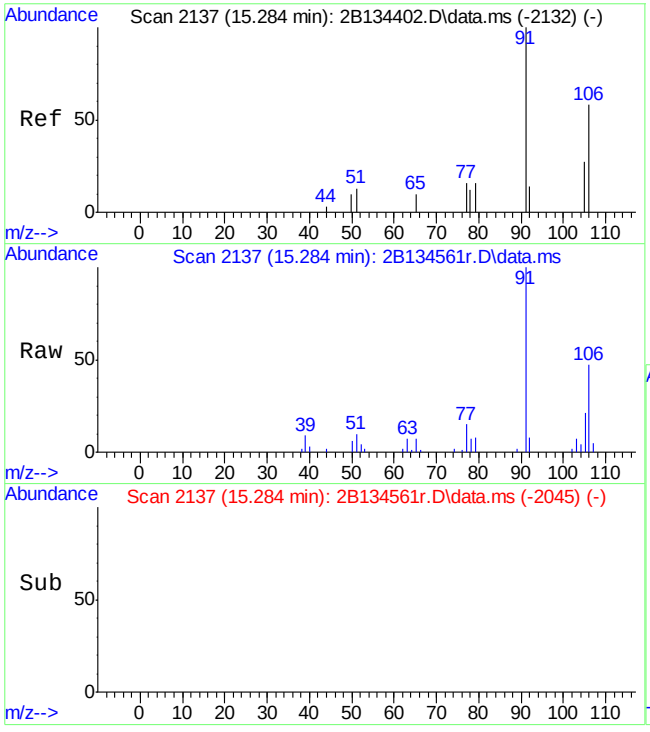


#101
m,p-xylene
Concen: 69.22 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134561r.D
Acq: 17 Sep 2015 3:59 pm

Tgt Ion:106 Resp: 227078

Ion	Ratio	Lower	Upper
106	100		
91	201.1	159.7	219.7

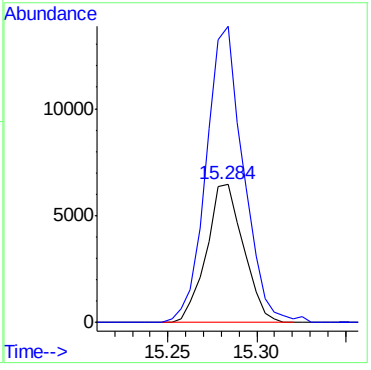




#102
o-xylene
Concen: 2.70 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134561r.D
Acq: 17 Sep 2015 3:59 pm

Tgt Ion:106 Resp: 9318

Ion	Ratio	Lower	Upper
106	100		
91	214.5	170.1	230.1



7.1.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134438r.D
Acq On : 14 Sep 2015 6:18 pm
Operator : BridgetK
Sample : jc3254-10R
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 11:58:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

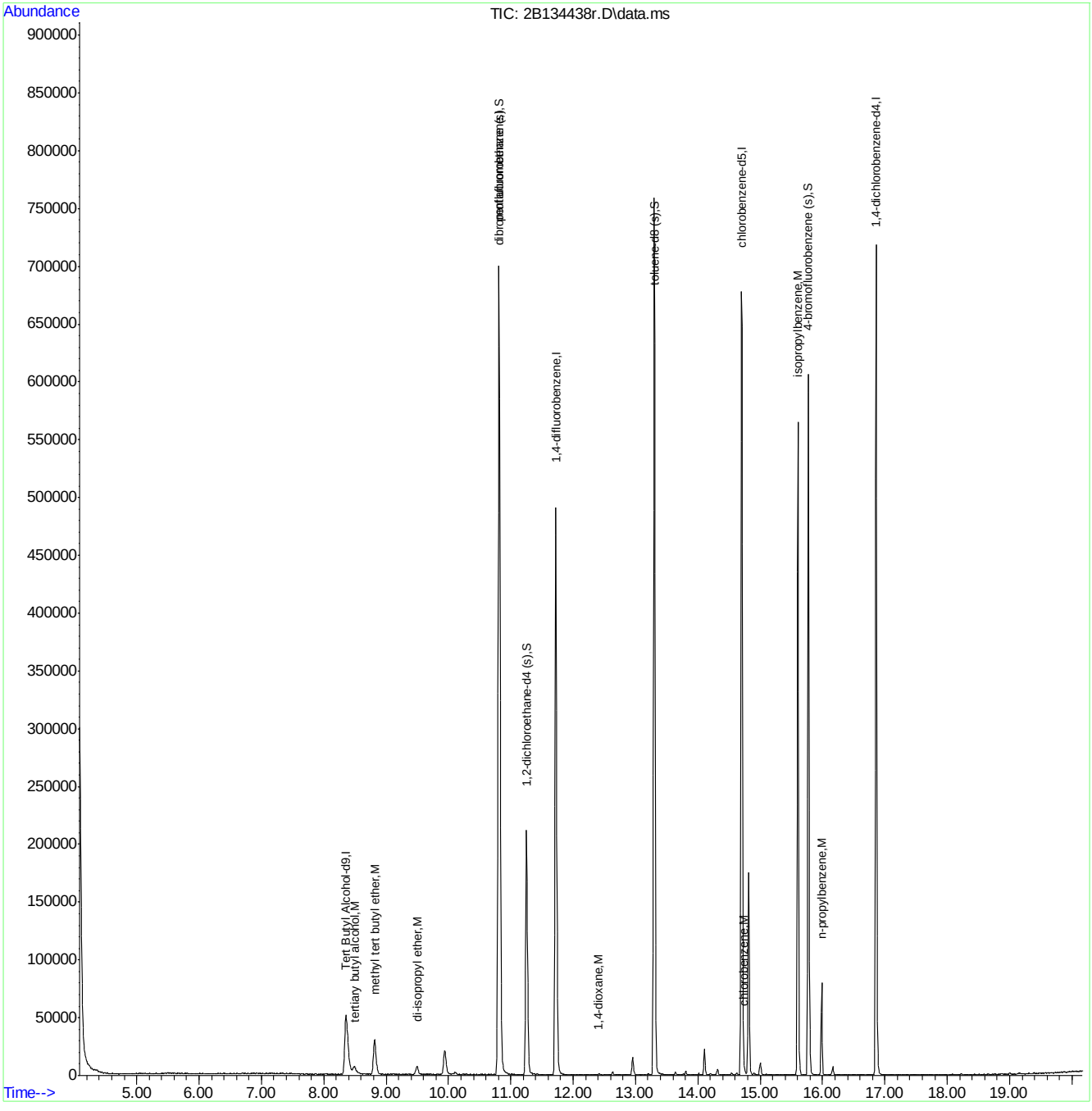
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	104893	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	439967	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	415606	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	345988	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	181814	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	148397	50.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.68%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	167015	55.60	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.20%			
82) toluene-d8 (s)	13.302	98	467635	52.84	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.68%			
108) 4-bromofluorobenzene (s)	15.771	95	158397	51.90	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	10782	44.09	ug/L	93
4) 1,4-dioxane	12.410	88	955	44.29	ug/L	80
34) methyl tert butyl ether	8.819	73	41957	7.16	ug/L	98
36) di-isopropyl ether	9.495	45	7483	1.05	ug/L	94
98) chlorobenzene	14.733	112	1971	0.38	ug/L	85
107) isopropylbenzene	15.603	105	316694	38.50	ug/L	97
114) n-propylbenzene	15.981	91	53908	6.14	ug/L	96

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

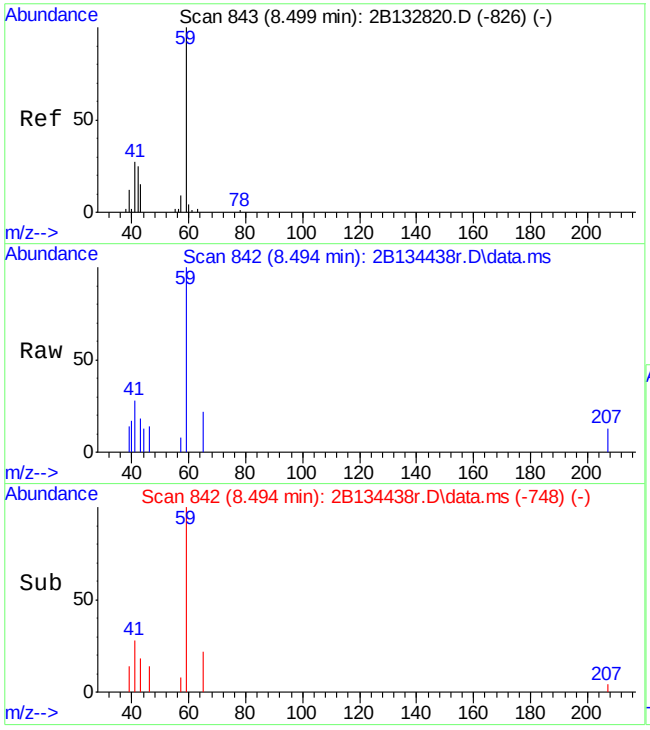
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134438r.D
Acq On : 14 Sep 2015 6:18 pm
Operator : BridgetK
Sample : jc3254-10R
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 11:58:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



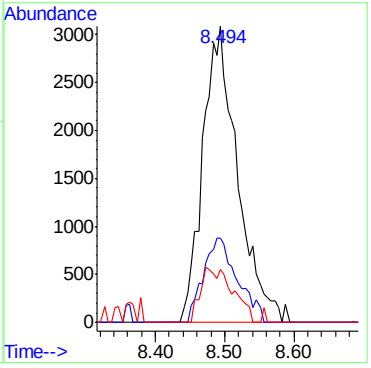
M2B5926.M Mon Dec 21 12:24:27 2015 ACC-VOA-CLN-05A Page: 2

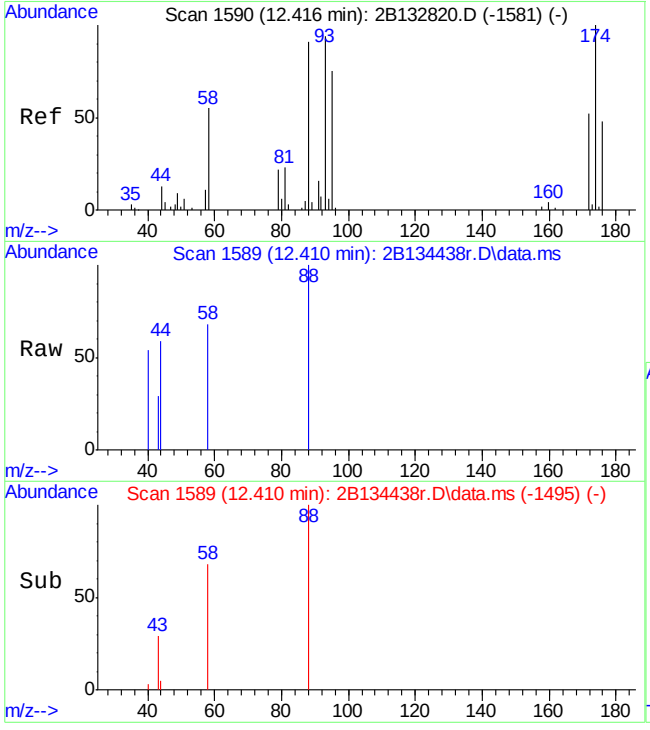


#2
tertiary butyl alcohol
Concen: 44.09 ug/L
RT: 8.494 min Scan# 842
Delta R.T. -0.005 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion: 59 Resp: 10782

Ion	Ratio	Lower	Upper
59	100		
41	28.4	4.6	64.6
43	17.8	0.0	48.1

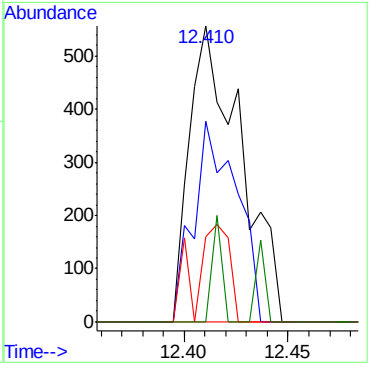


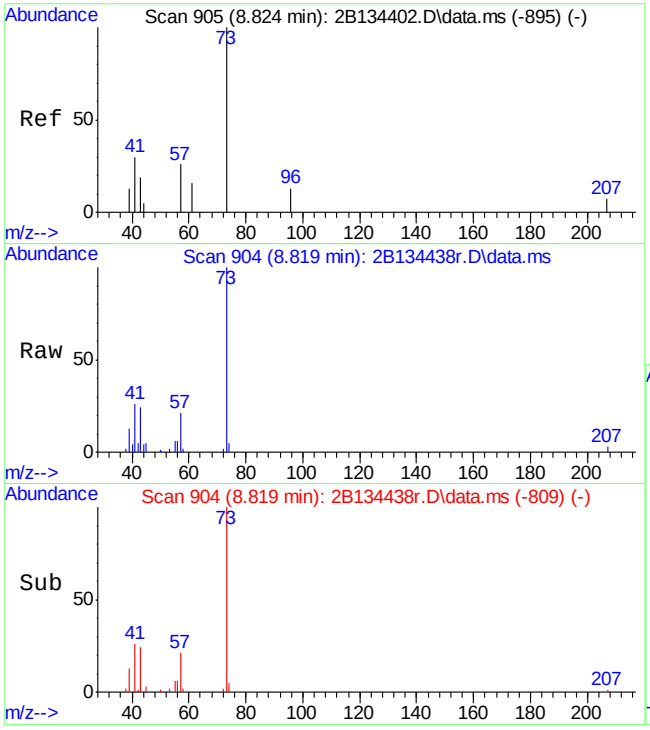


#4
1,4-dioxane
Concen: 44.29 ug/L
RT: 12.410 min Scan# 1589
Delta R.T. -0.005 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion: 88 Resp: 955

Ion	Ratio	Lower	Upper
88	100		
58	67.8	29.7	89.7
43	29.0	12.4	72.4
57	0.0	0.0	49.6

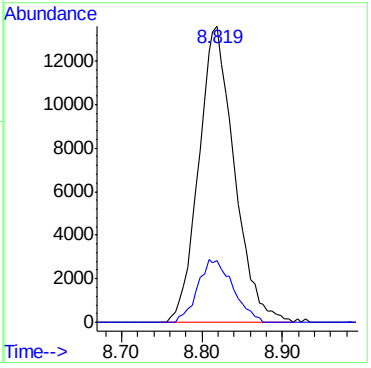


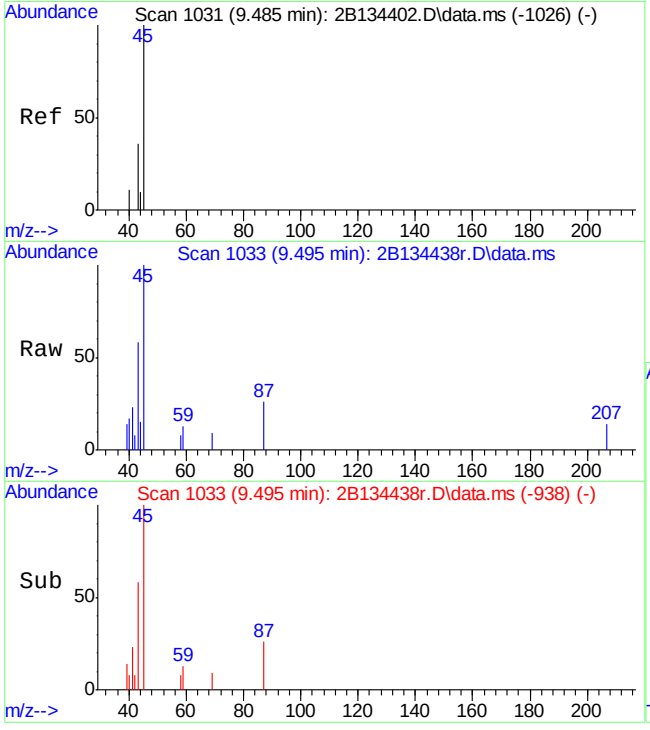


#34
methyl tert butyl ether
Concen: 7.16 ug/L
RT: 8.819 min Scan# 904
Delta R.T. -0.000 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion: 73 Resp: 41957

Ion	Ratio	Lower	Upper
73	100		
57	20.8	0.0	52.0

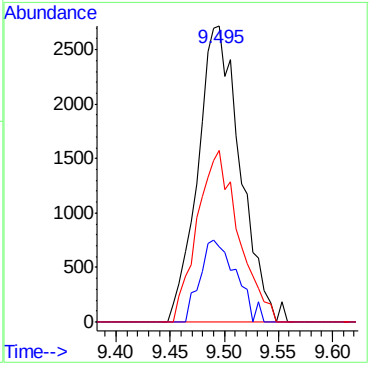


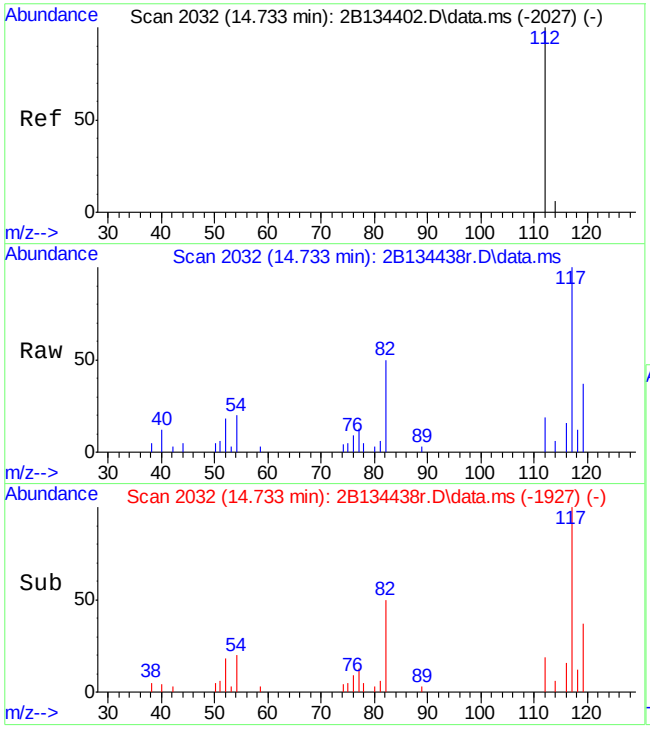


#36
di-isopropyl ether
Concen: 1.05 ug/L
RT: 9.495 min Scan# 1033
Delta R.T. -0.000 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion: 45 Resp: 7483

Ion	Ratio	Lower	Upper
45	100		
87	25.6	0.0	55.3
43	57.8	21.6	81.6

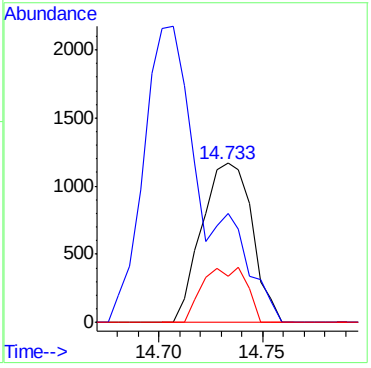


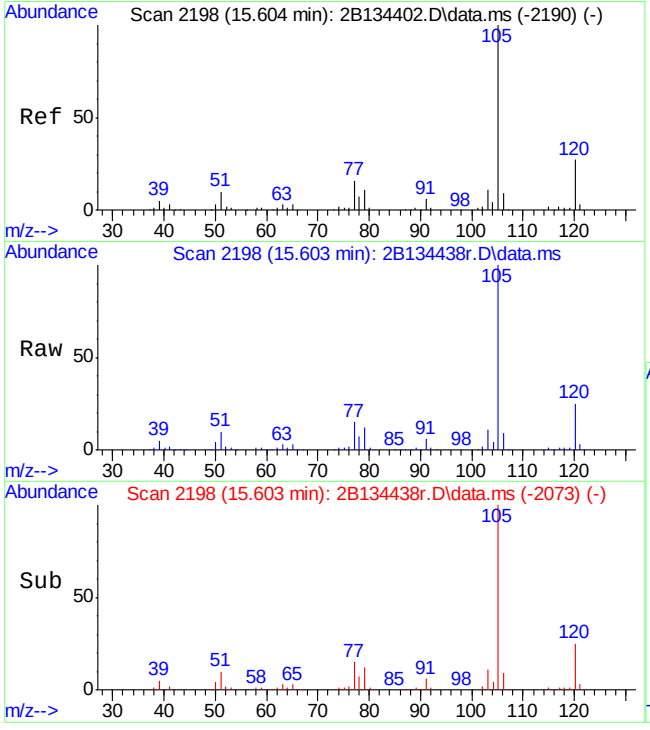


#98
chlorobenzene
Concen: 0.38 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion:112 Resp: 1971

Ion	Ratio	Lower	Upper
112	100		
77	68.7	23.5	83.5
114	28.8	1.6	61.6

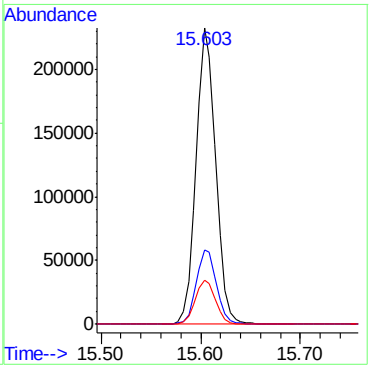


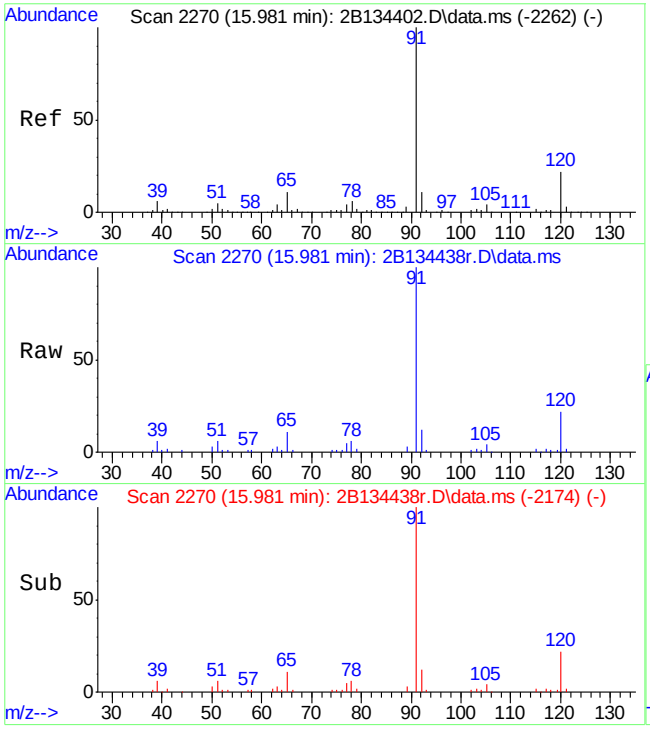


#107
isopropylbenzene
Concen: 38.50 ug/L
RT: 15.603 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion:105 Resp: 316694

Ion	Ratio	Lower	Upper
105	100		
120	25.1	0.0	56.6
77	14.9	0.0	43.7

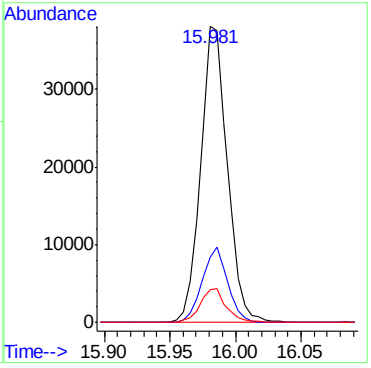




#114
n-propylbenzene
Concen: 6.14 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134438r.D
Acq: 14 Sep 2015 6:18 pm

Tgt Ion: 91 Resp: 53908

Ion	Ratio	Lower	Upper
91	100		
120	22.0	0.0	54.2
65	11.1	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134478r.D
Acq On : 15 Sep 2015 1:44 pm
Operator : BridgetK
Sample : jc3254-11R
Misc : ms90889,v2B5992,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 21 14:57:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

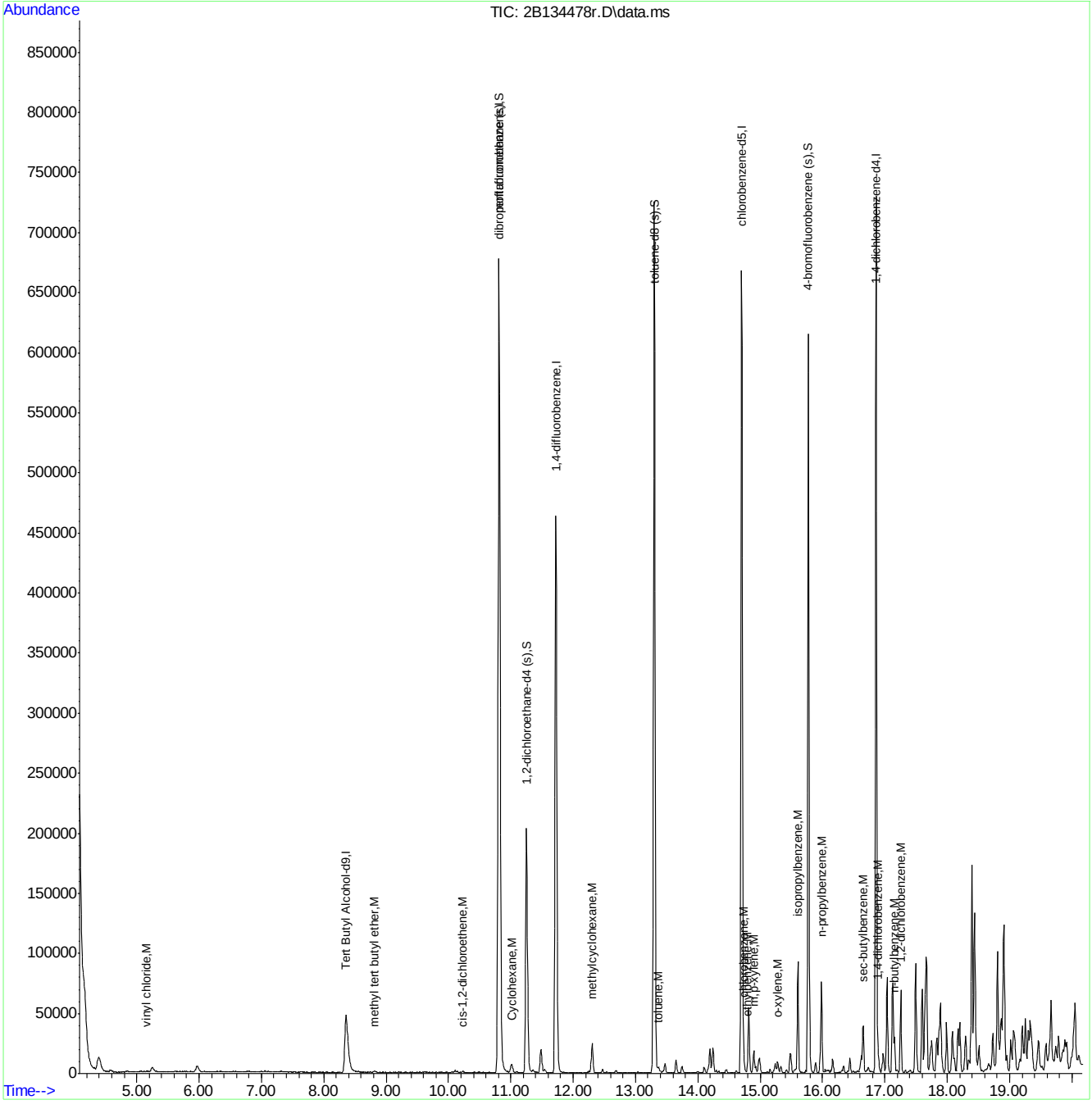
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	92393	500.00	ug/L	-0.01
5) pentafluorobenzene	10.812	168	413830	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	395370	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	329335	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	179465	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	143393	52.23	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.46%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	161365	57.12	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.24%			
82) toluene-d8 (s)	13.302	98	440493	52.32	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.64%			
108) 4-bromofluorobenzene (s)	15.771	95	155207	51.53	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.06%			
Target Compounds						Qvalue
13) vinyl chloride	5.149	62	759	0.25	ug/L #	43
34) methyl tert butyl ether	8.803	73	1438	0.26	ug/L	54
45) cis-1,2-dichloroethene	10.230	96	674	0.27	ug/L	85
56) Cyclohexane	11.021	84	3137	1.05	ug/L #	29
79) methylcyclohexane	12.306	83	8629	2.96	ug/L	92
84) toluene	13.370	92	1415	0.31	ug/L #	73
98) chlorobenzene	14.733	112	5325	1.09	ug/L	98
100) ethylbenzene	14.796	91	1938	0.25	ug/L	76
101) m,p-xylene	14.896	106	5024	1.61	ug/L	96
102) o-xylene	15.284	106	2458	0.75	ug/L	88
107) isopropylbenzene	15.604	105	52223	6.43	ug/L	95
114) n-propylbenzene	15.981	91	45248	5.22	ug/L	95
121) sec-butylbenzene	16.652	105	22856	2.62	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	1716	0.38	ug/L	89
125) 1,2-dichlorobenzene	17.260	146	2095	0.48	ug/L	92
126) n-butylbenzene	17.156	92	7972	2.16	ug/L	94

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

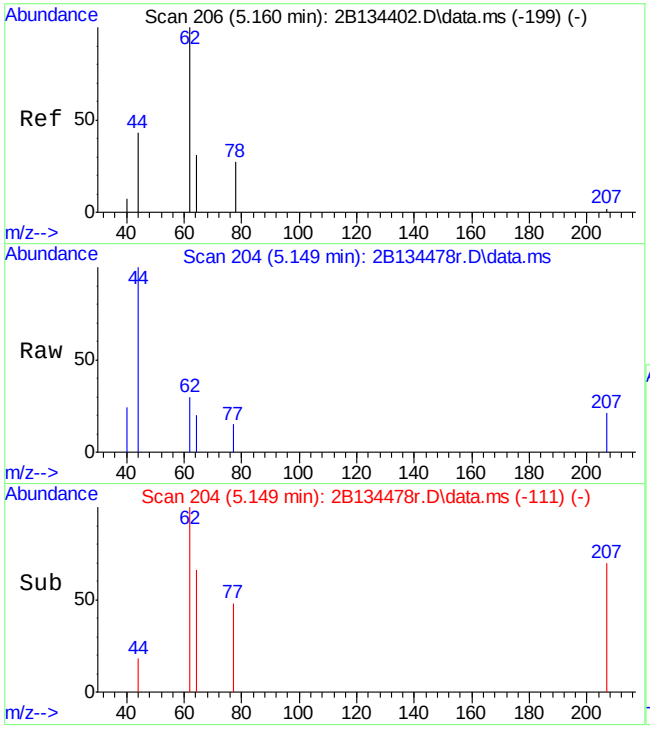
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134478r.D
Acq On : 15 Sep 2015 1:44 pm
Operator : BridgetK
Sample : jc3254-11R
Misc : ms90889,v2B5992,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 21 14:57:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



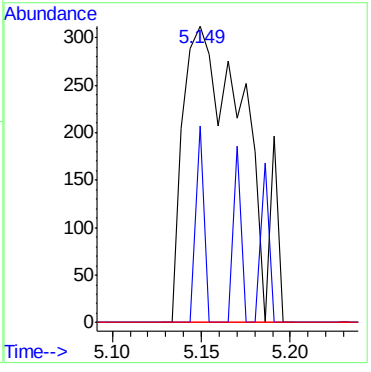
M2B5926.M Mon Dec 21 15:05:27 2015 ACC-VOA-CLN-05A Page: 2

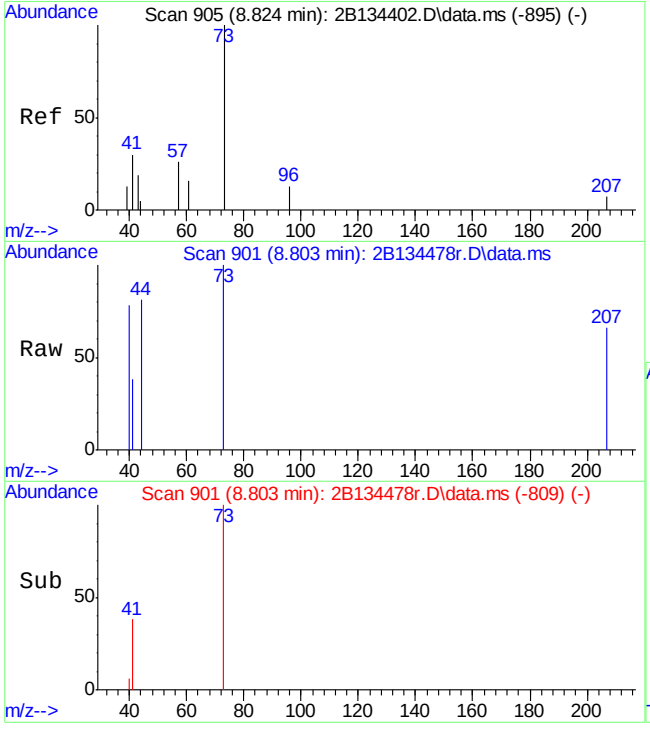


#13
vinyl chloride
Concen: 0.25 ug/L
RT: 5.149 min Scan# 204
Delta R.T. -0.010 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 62 Resp: 759

Ion	Ratio	Lower	Upper
62	100		
64	66.3	0.6	60.6#
61	0.0	0.0	38.1

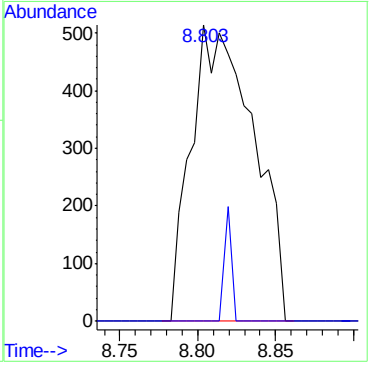


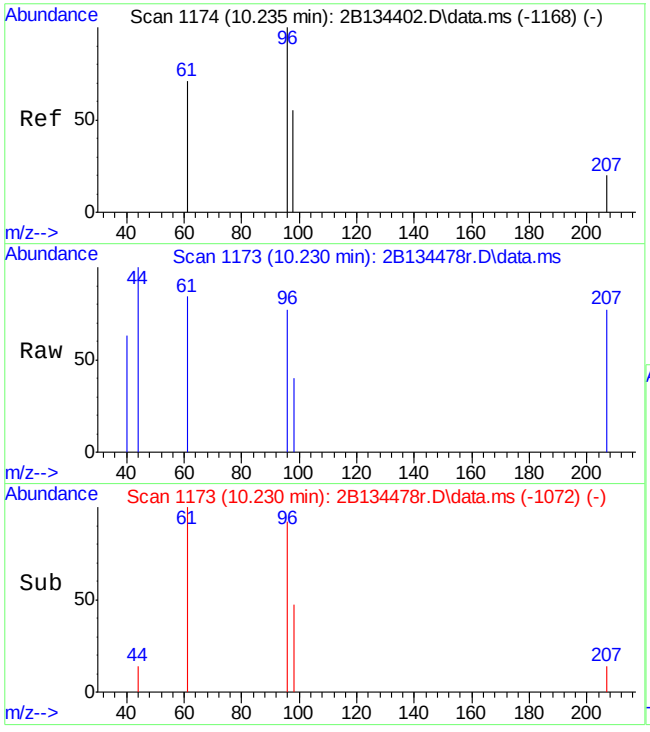


#34
methyl tert butyl ether
Concen: 0.26 ug/L
RT: 8.803 min Scan# 901
Delta R.T. -0.016 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 73 Resp: 1438

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	52.0

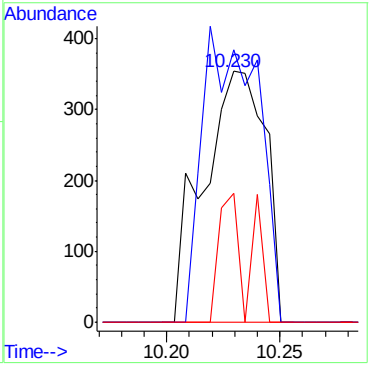


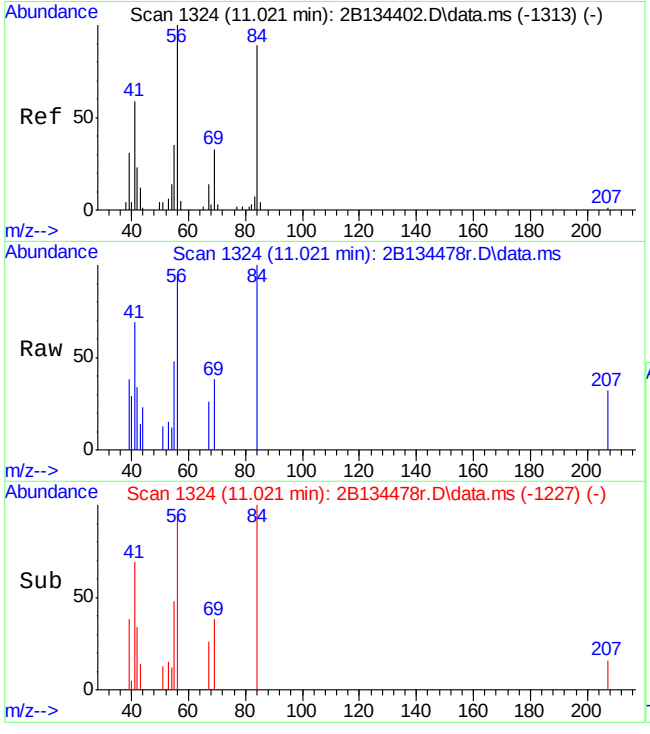


#45
cis-1,2-dichloroethene
Concen: 0.27 ug/L
RT: 10.230 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 96 Resp: 674

Ion	Ratio	Lower	Upper
96	100		
61	108.8	96.0	156.0
98	51.4	32.9	92.9

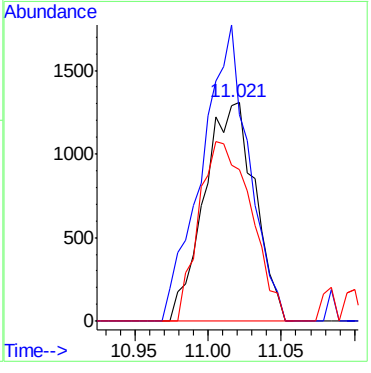


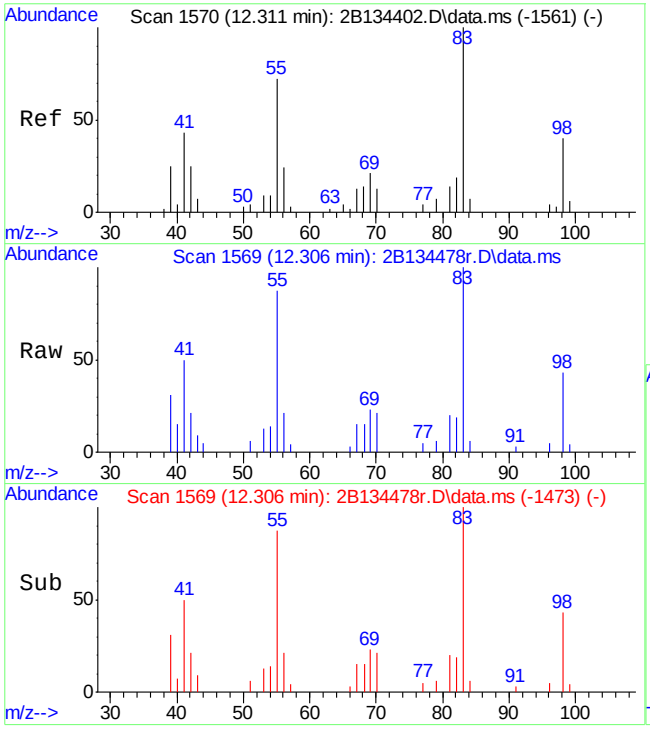


#56
Cyclohexane
Concen: 1.05 ug/L
RT: 11.021 min Scan# 1324
Delta R.T. 0.006 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 84 Resp: 3137

Ion	Ratio	Lower	Upper
84	100		
56	94.1	195.8	255.8#
41	69.1	102.7	162.7#

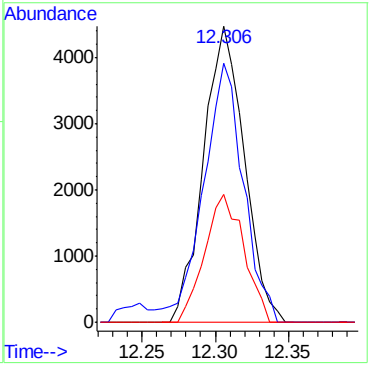


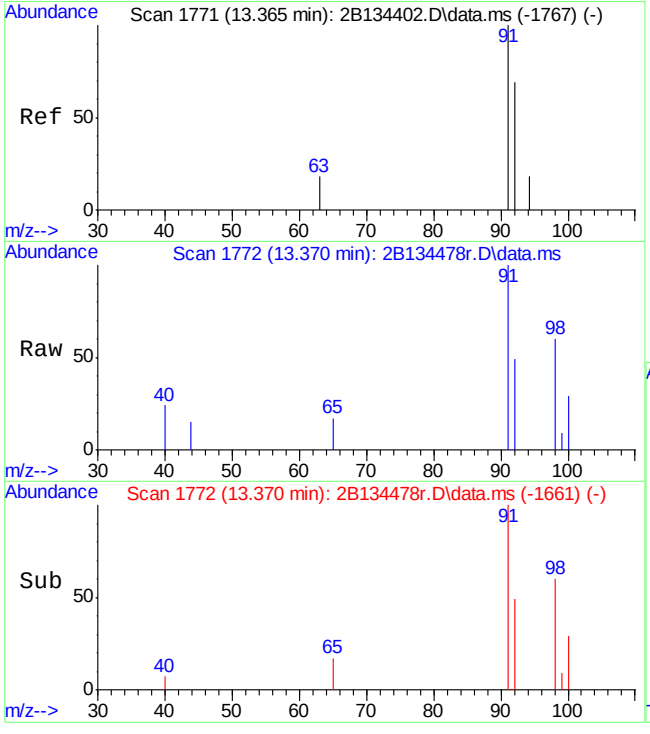


#79
methylcyclohexane
Concen: 2.96 ug/L
RT: 12.306 min Scan# 1569
Delta R.T. 0.001 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 83 Resp: 8629

Ion	Ratio	Lower	Upper
83	100		
55	87.4	47.5	107.5
98	43.0	14.4	74.4

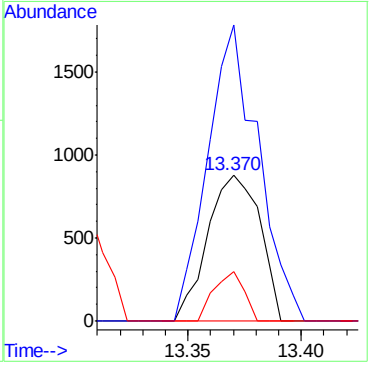


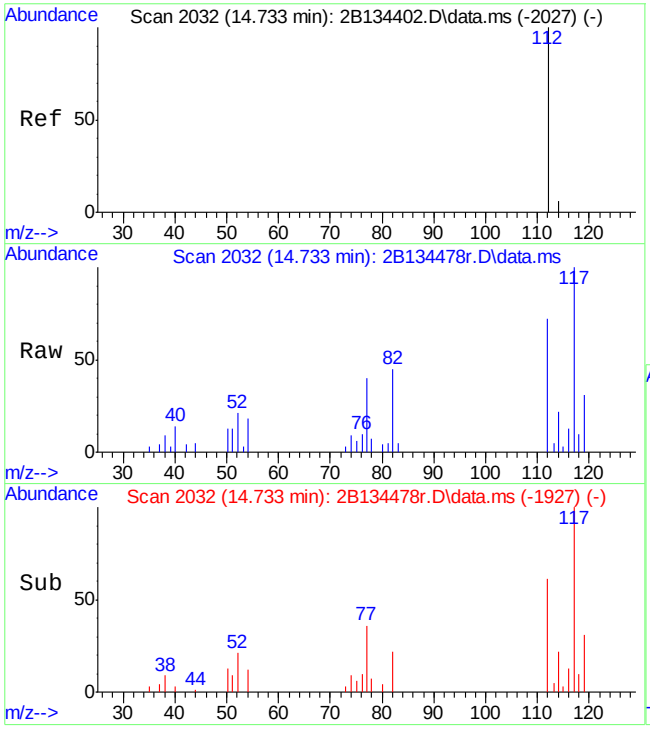


#84
toluene
Concen: 0.31 ug/L
RT: 13.370 min Scan# 1772
Delta R.T. 0.000 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 92 Resp: 1415

Ion	Ratio	Lower	Upper
92	100		
91	202.5	137.1	197.1#
65	33.5	0.0	48.1

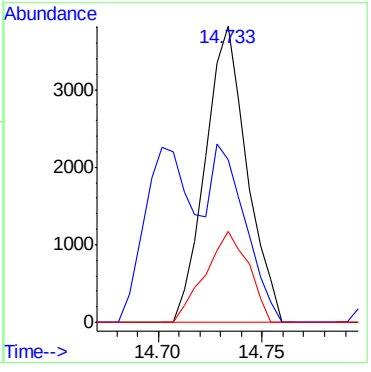


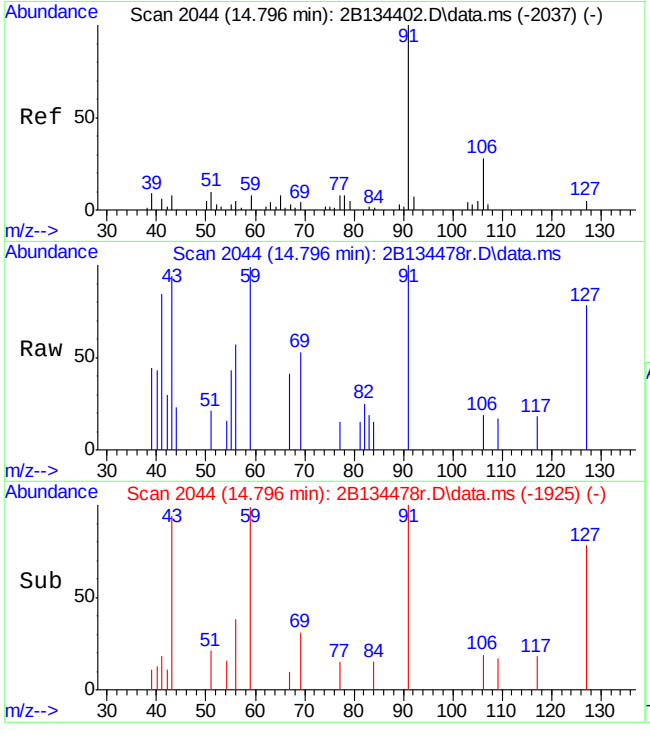


#98
chlorobenzene
Concen: 1.09 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:112 Resp: 5325

Ion	Ratio	Lower	Upper
112	100		
77	55.1	23.5	83.5
114	30.8	1.6	61.6

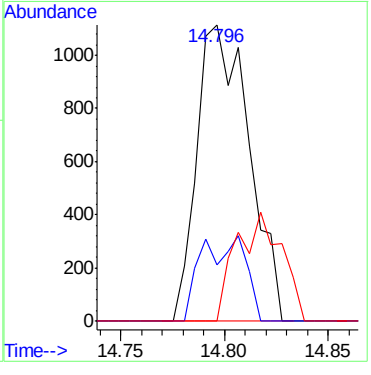


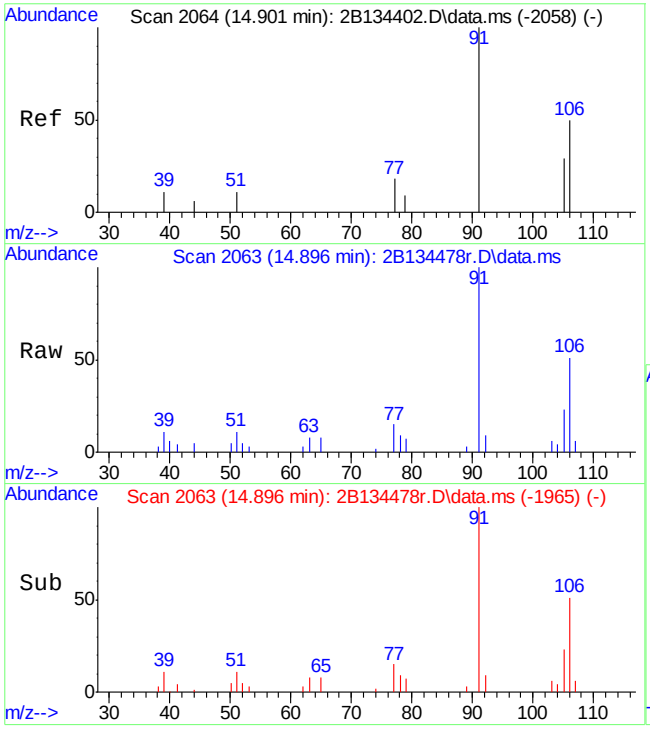


#100
ethylbenzene
Concen: 0.25 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 91 Resp: 1938

Ion	Ratio	Lower	Upper
91	100		
106	19.1	2.4	62.4
65	0.0	0.0	38.1

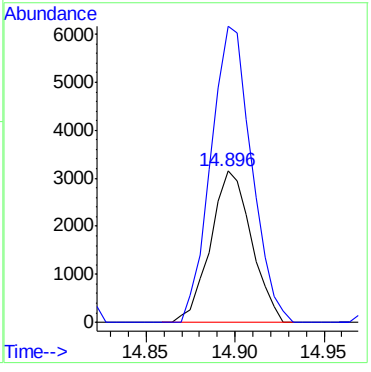


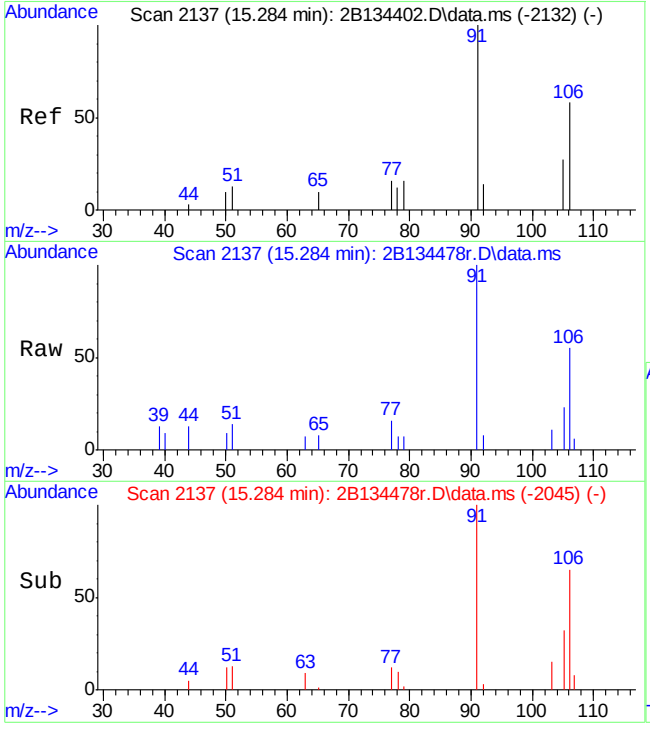


#101
m,p-xylene
Concen: 1.61 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:106 Resp: 5024

Ion	Ratio	Lower	Upper
106	100		
91	195.6	159.7	219.7

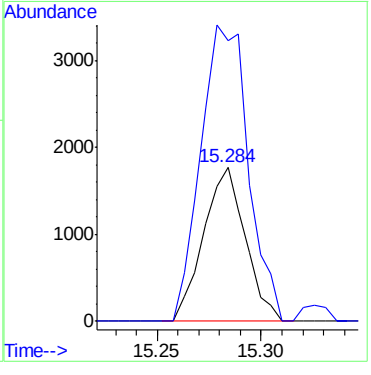


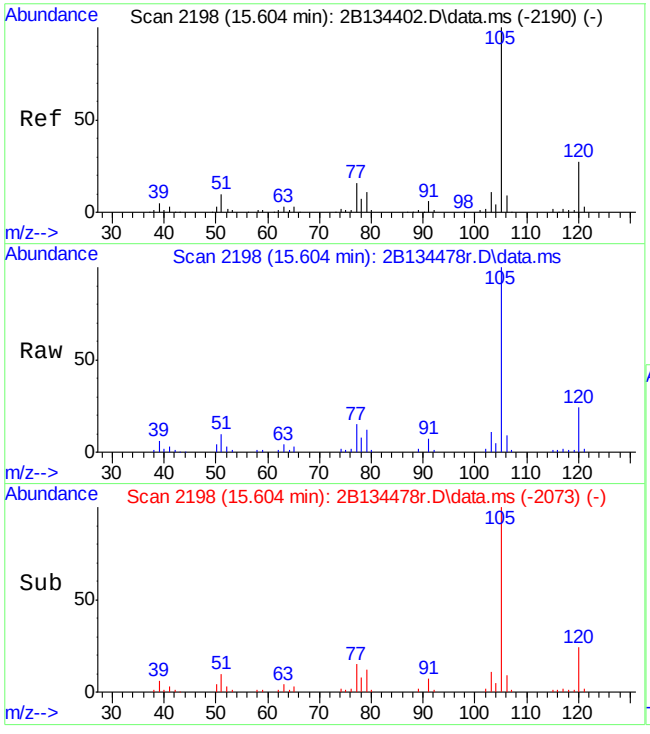


#102
o-xylene
Concen: 0.75 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:106 Resp: 2458

Ion	Ratio	Lower	Upper
106	100		
91	182.1	170.1	230.1

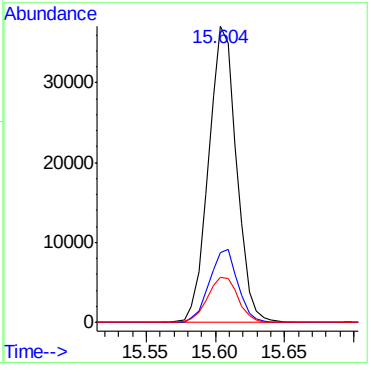


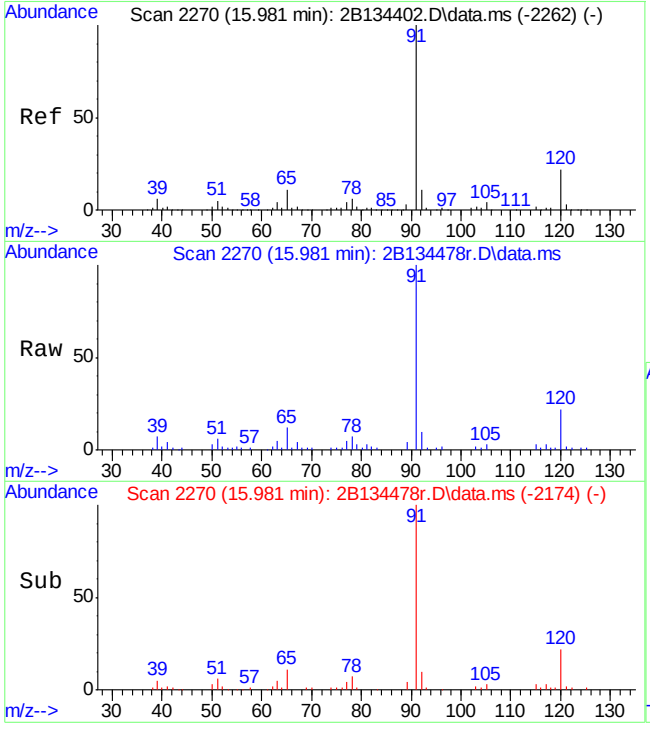


#107
isopropylbenzene
Concen: 6.43 ug/L
RT: 15.604 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:105 Resp: 52223

Ion	Ratio	Lower	Upper
105	100		
120	23.7	0.0	56.6
77	15.3	0.0	43.7

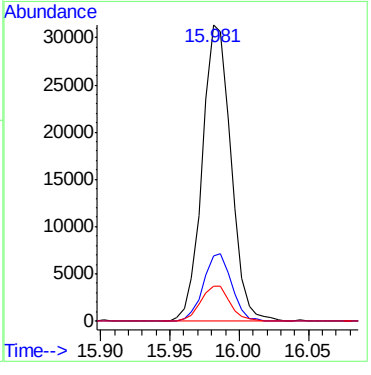


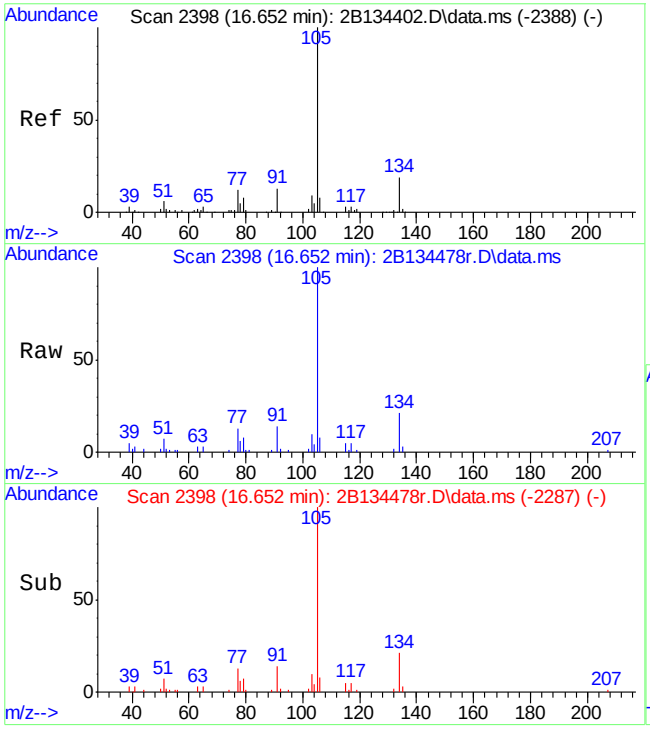


#114
n-propylbenzene
Concen: 5.22 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 91 Resp: 45248

Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	54.2
65	12.0	0.0	39.7

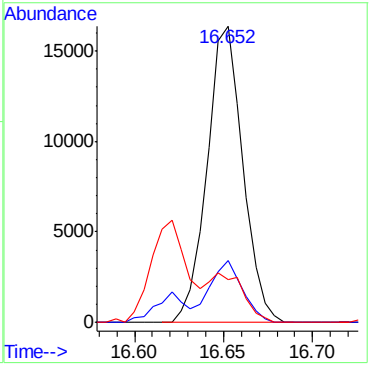


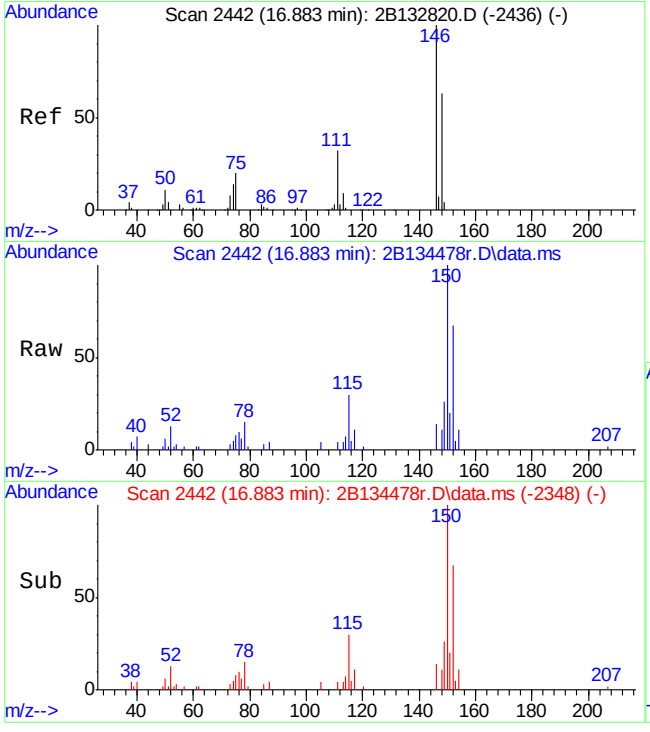


#121
sec-butylbenzene
Concen: 2.62 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. 0.000 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:105 Resp: 22856

Ion	Ratio	Lower	Upper
105	100		
134	21.0	0.0	49.9
91	14.5	0.0	44.6

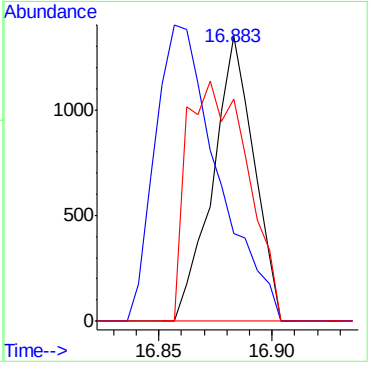


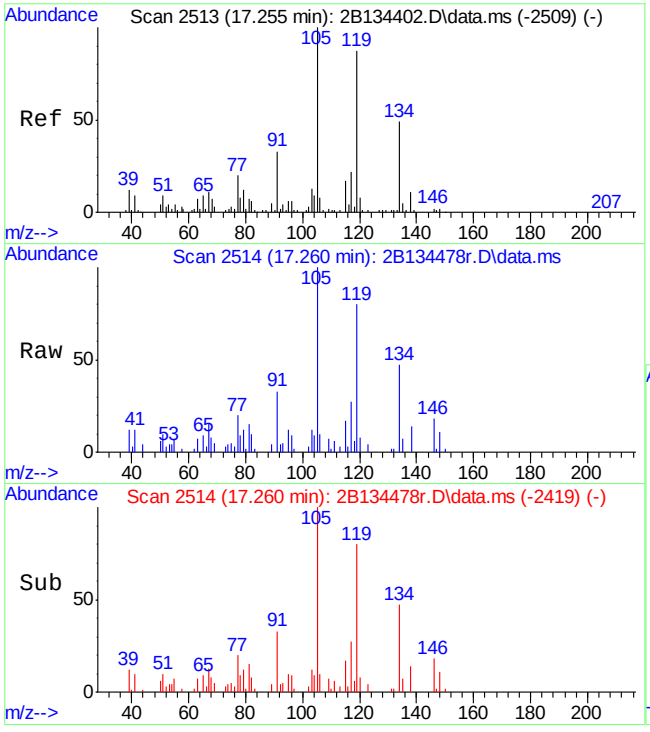


#124
1,4-dichlorobenzene
Concen: 0.38 ug/L
RT: 16.883 min Scan# 2442
Delta R.T. -0.005 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:146 Resp: 1716

Ion	Ratio	Lower	Upper
146	100		
111	30.8	2.0	62.0
148	78.0	35.5	95.5

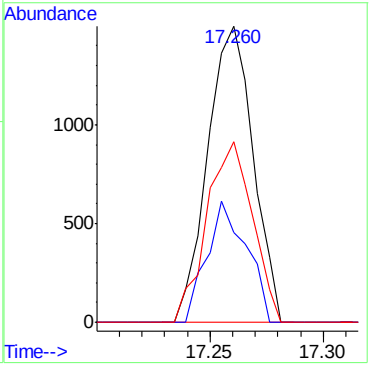


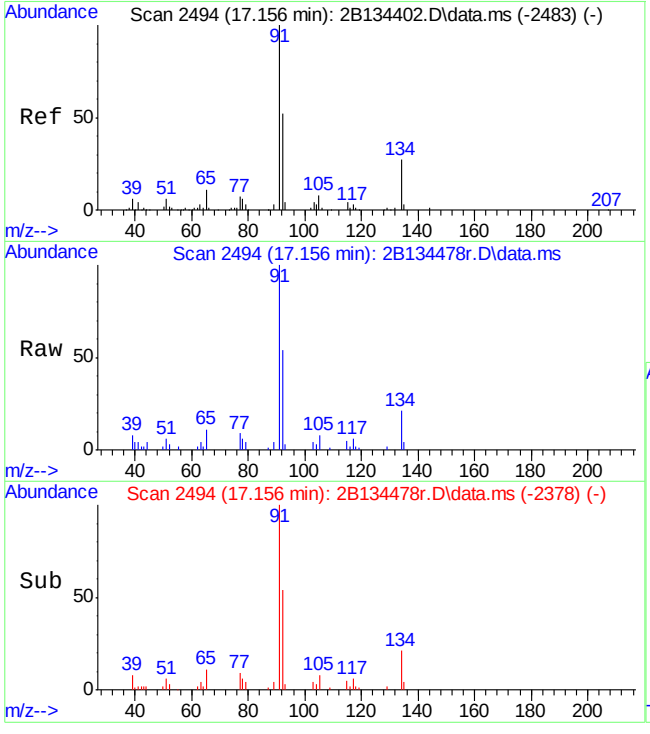


#125
1,2-dichlorobenzene
Concen: 0.48 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion:146 Resp: 2095

Ion	Ratio	Lower	Upper
146	100		
111	30.4	5.0	65.0
148	61.2	37.0	97.0

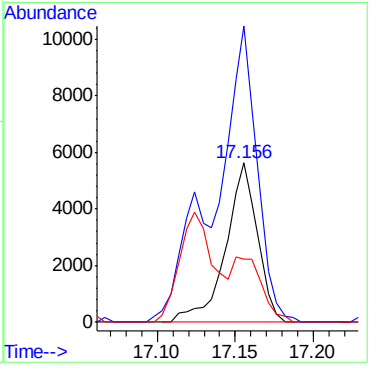




#126
n-butylbenzene
Concen: 2.16 ug/L
RT: 17.156 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 2B134478r.D
Acq: 15 Sep 2015 1:44 pm

Tgt Ion: 92 Resp: 7972

Ion	Ratio	Lower	Upper
92	100		
91	183.3	149.3	209.3
134	39.3	20.6	80.6



7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134538r.D
Acq On : 16 Sep 2015 7:26 pm
Operator : BridgetK
Sample : jc3254-12R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 15:27:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

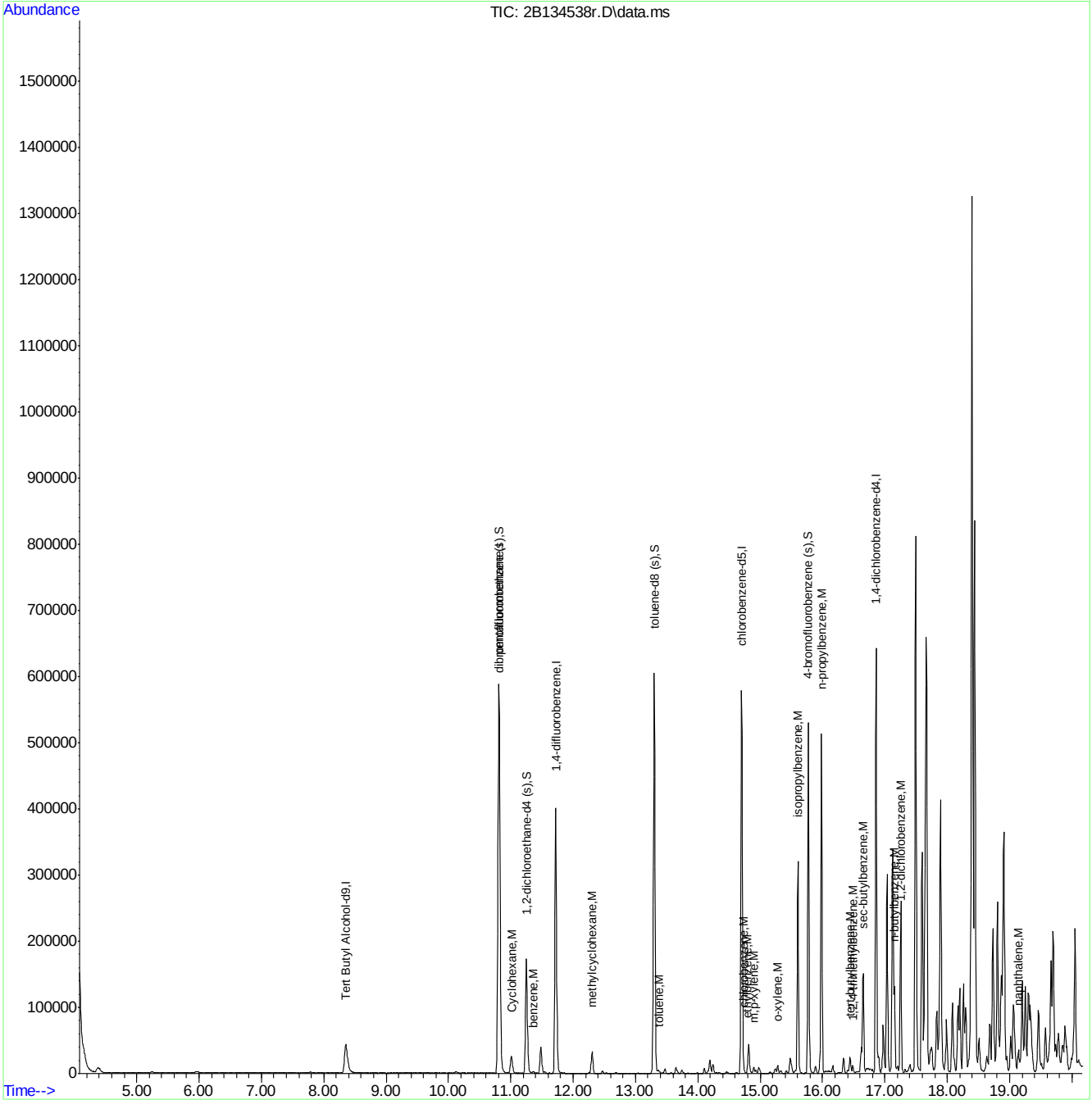
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.352	65	81788	500.00	ug/L	-0.02
5) pentafluorobenzene	10.806	168	360854	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	11.724	114	339690	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	280708	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	156209	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	120206	50.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.42%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	139678	56.70	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.40%			
82) toluene-d8 (s)	13.302	98	373898	51.69	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.38%			
108) 4-bromofluorobenzene (s)	15.771	95	131254	50.06	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.12%			
Target Compounds						Qvalue
56) Cyclohexane	11.016	84	11526	4.41	ug/L #	34
66) benzene	11.351	78	2249	0.36	ug/L	86
79) methylcyclohexane	12.306	83	12043	4.81	ug/L	91
84) toluene	13.375	92	1920	0.48	ug/L #	65
98) chlorobenzene	14.728	112	2018	0.49	ug/L	80
100) ethylbenzene	14.796	91	6258	0.93	ug/L	95
101) m,p-xylene	14.896	106	2426	0.91	ug/L	100
102) o-xylene	15.284	106	2911	1.04	ug/L	92
107) isopropylbenzene	15.604	105	185494	26.25	ug/L	96
114) n-propylbenzene	15.981	91	334029	44.26	ug/L	97
118) tert-butylbenzene	16.448	119	3983	0.77	ug/L	88
120) 1,2,4-trimethylbenzene	16.484	105	5770	1.03	ug/L	87
121) sec-butylbenzene	16.652	105	88490	11.64	ug/L	97
125) 1,2-dichlorobenzene	17.260	146	1490	0.39	ug/L	87
126) n-butylbenzene	17.150	92	33672	10.48	ug/L	97
131) naphthalene	19.143	128	22779	4.85	ug/L	99

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

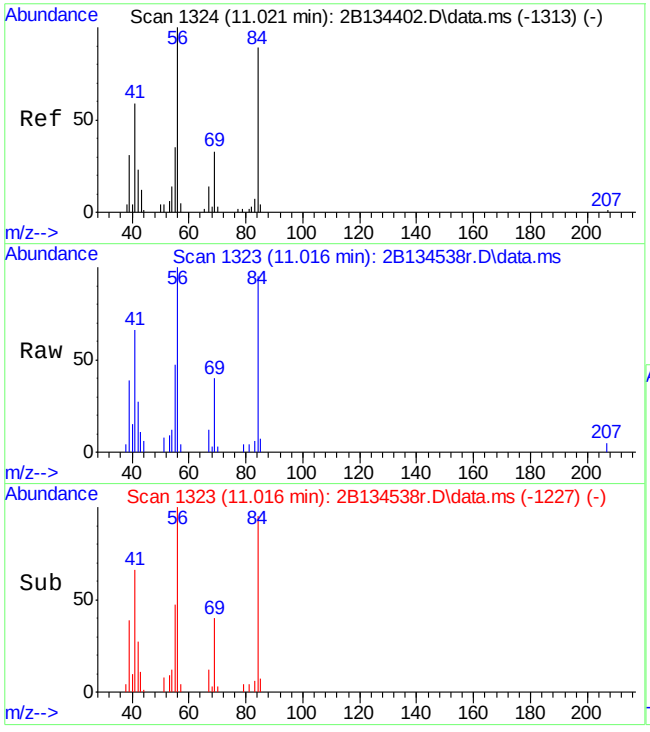
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134538r.D
Acq On : 16 Sep 2015 7:26 pm
Operator : BridgetK
Sample : jc3254-12R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 15:27:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



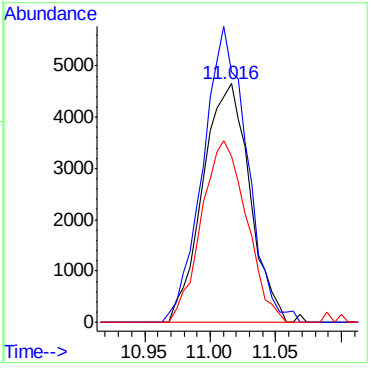
M2B5926.M Mon Dec 21 15:29:37 2015 ACC-VOA-CLN-05A Page: 2

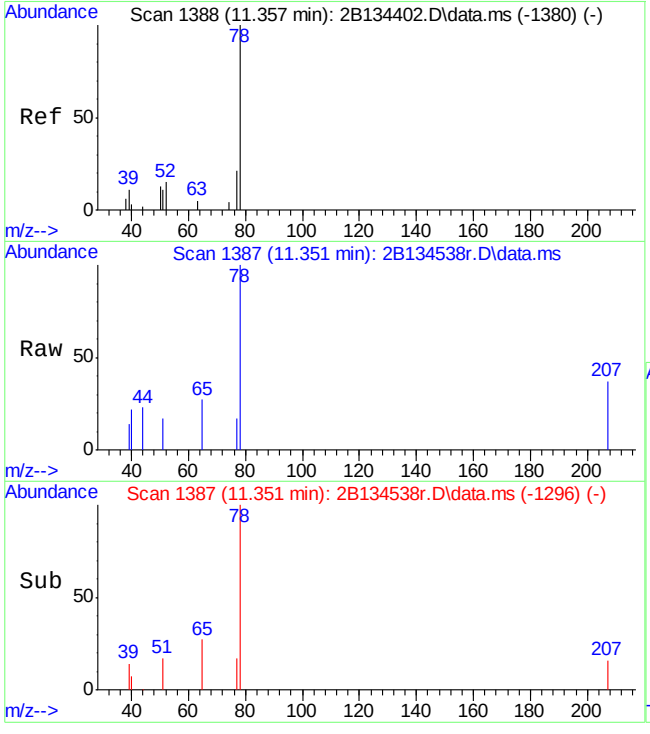


#56
Cyclohexane
Concen: 4.41 ug/L
RT: 11.016 min Scan# 1323
Delta R.T. 0.001 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 84 Resp: 11526

Ion	Ratio	Lower	Upper
84	100		
56	104.7	195.8	255.8#
41	69.5	102.7	162.7#

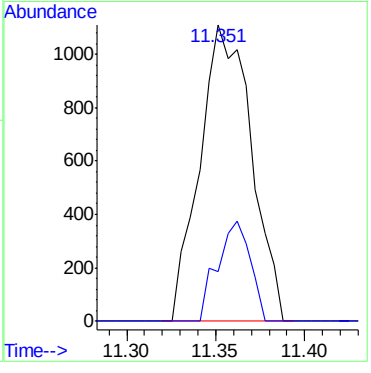


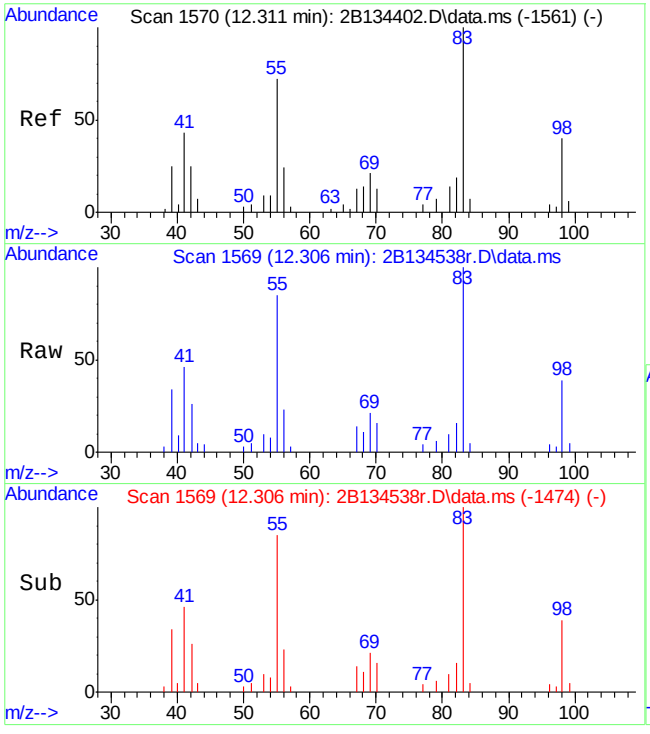


#66
benzene
Concen: 0.36 ug/L
RT: 11.351 min Scan# 1387
Delta R.T. -0.010 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 78 Resp: 2249

Ion	Ratio	Lower	Upper
78	100		
77	16.6	0.0	53.4

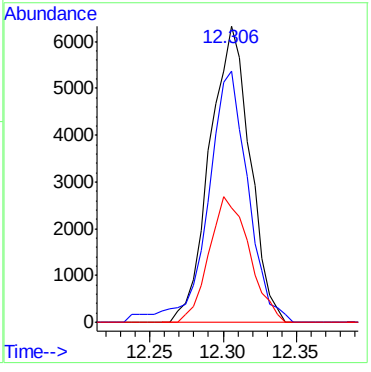


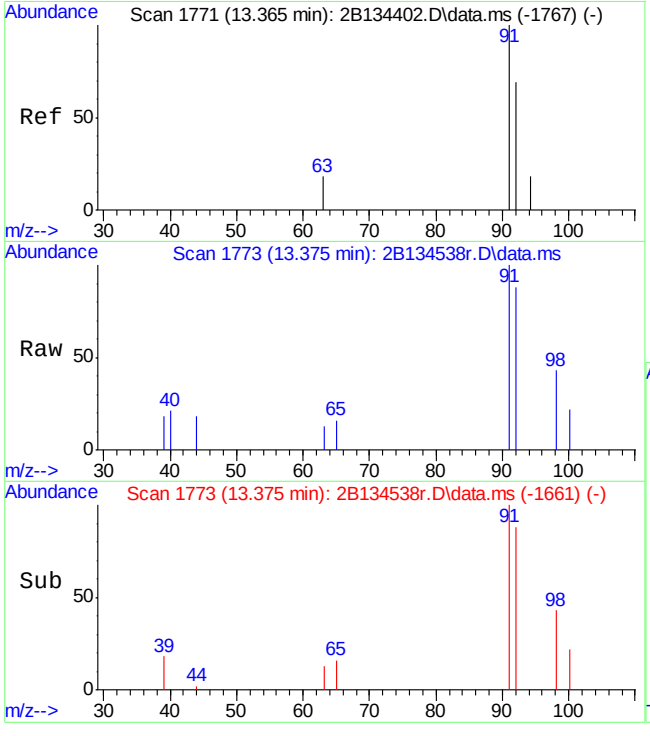


#79
methylcyclohexane
Concen: 4.81 ug/L
RT: 12.306 min Scan# 1569
Delta R.T. 0.001 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 83 Resp: 12043

Ion	Ratio	Lower	Upper
83	100		
55	85.0	47.5	107.5
98	38.8	14.4	74.4

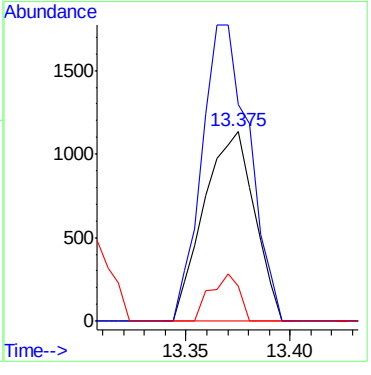


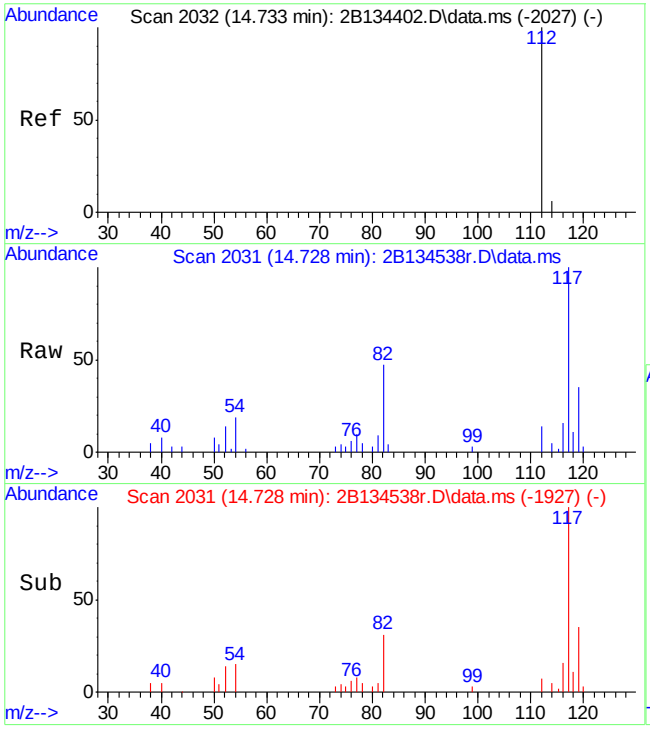


#84
toluene
Concen: 0.48 ug/L
RT: 13.375 min Scan# 1773
Delta R.T. 0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 92 Resp: 1920

Ion	Ratio	Lower	Upper
92	100		
91	114.3	137.1	197.1#
65	18.6	0.0	48.1

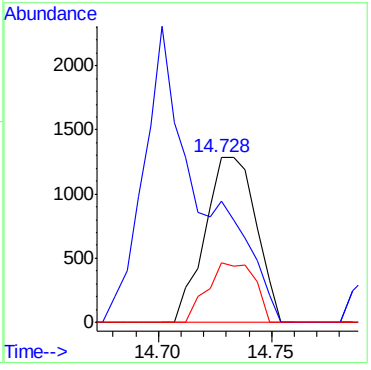


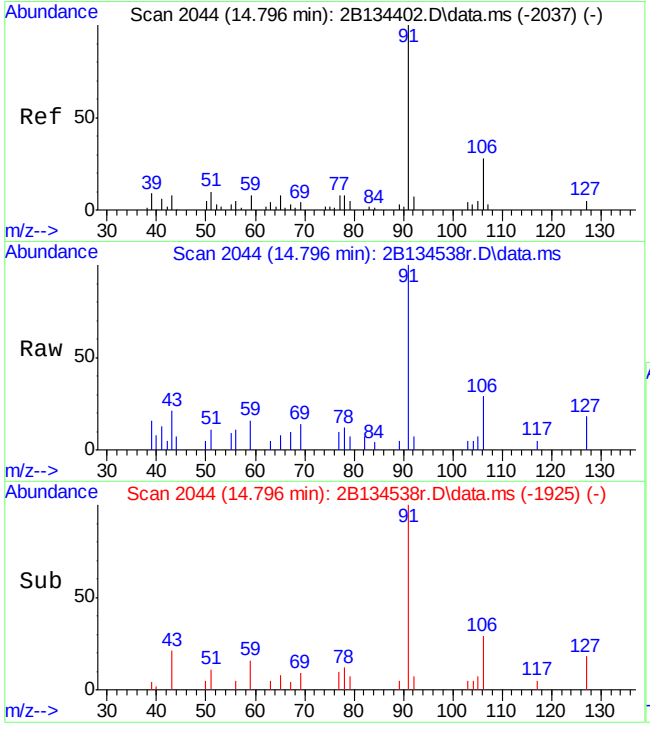


#98
chlorobenzene
Concen: 0.49 ug/L
RT: 14.728 min Scan# 2031
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:112 Resp: 2018

Ion	Ratio	Lower	Upper
112	100		
77	73.4	23.5	83.5
114	35.8	1.6	61.6

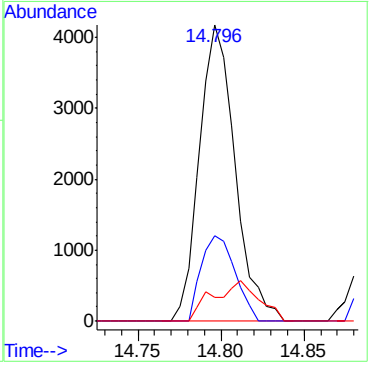


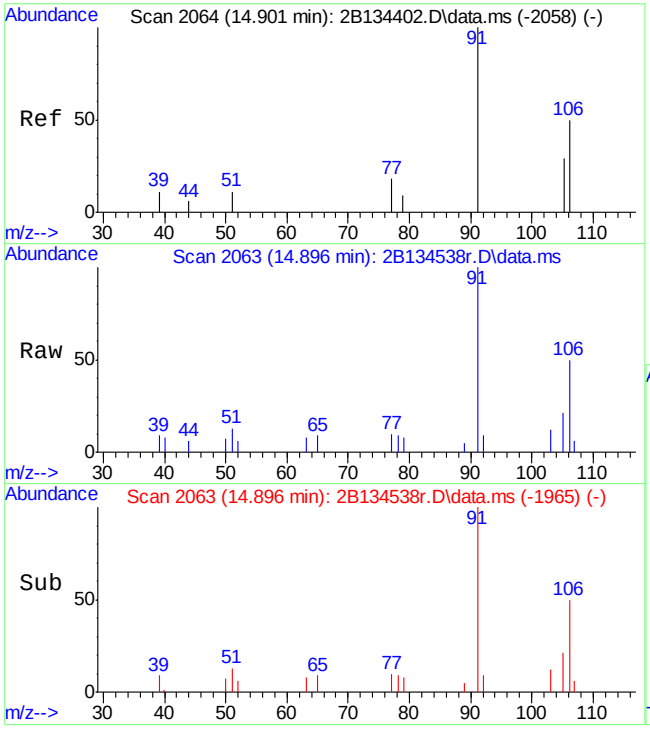


#100
ethylbenzene
Concen: 0.93 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 91 Resp: 6258

Ion	Ratio	Lower	Upper
91	100		
106	28.8	2.4	62.4
65	8.1	0.0	38.1

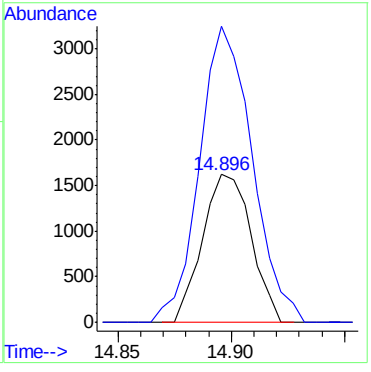


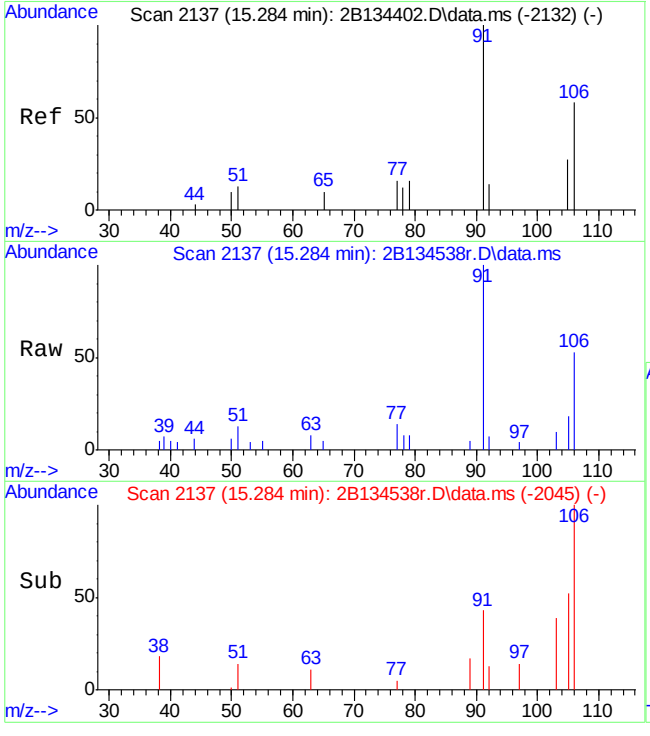


#101
m,p-xylene
Concen: 0.91 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:106 Resp: 2426

Ion	Ratio	Lower	Upper
106	100		
91	189.9	159.7	219.7

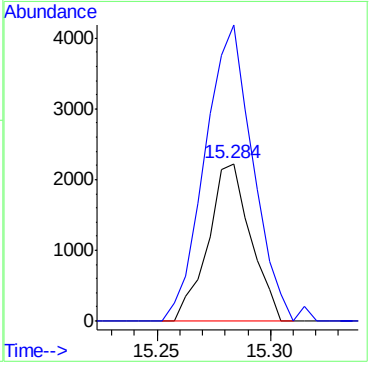


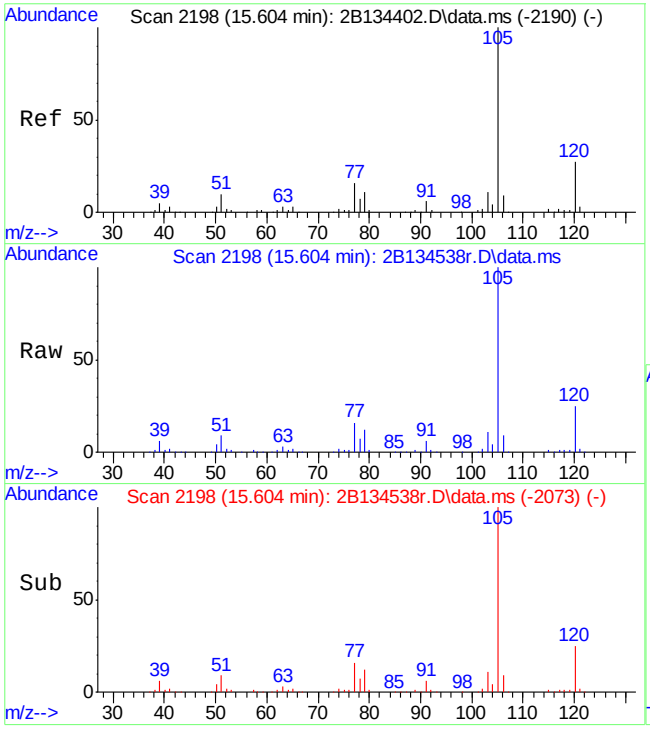


#102
o-xylene
Concen: 1.04 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:106 Resp: 2911

Ion	Ratio	Lower	Upper
106	100		
91	188.1	170.1	230.1

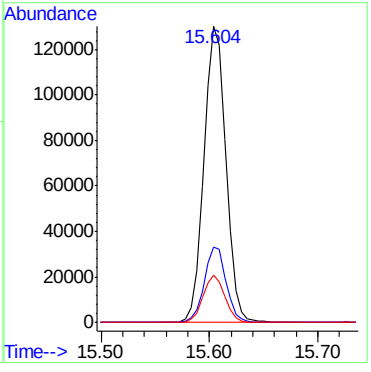


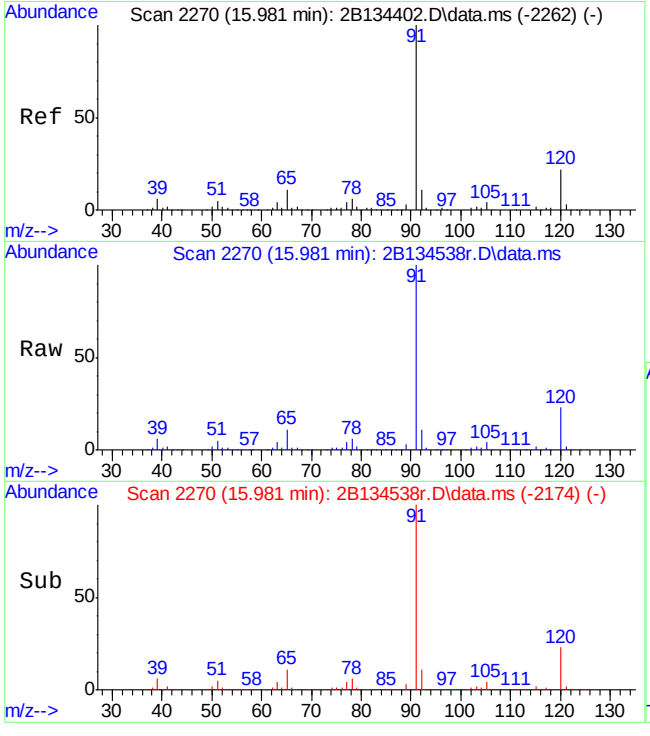


#107
isopropylbenzene
Concen: 26.25 ug/L
RT: 15.604 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:105 Resp: 185494

Ion	Ratio	Lower	Upper
105	100		
120	25.2	0.0	56.6
77	16.0	0.0	43.7

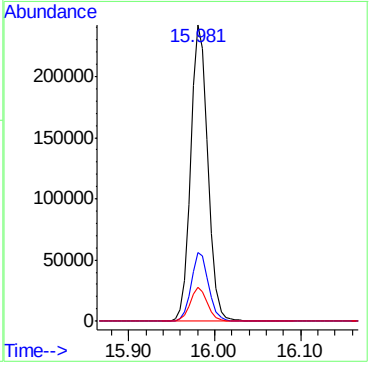


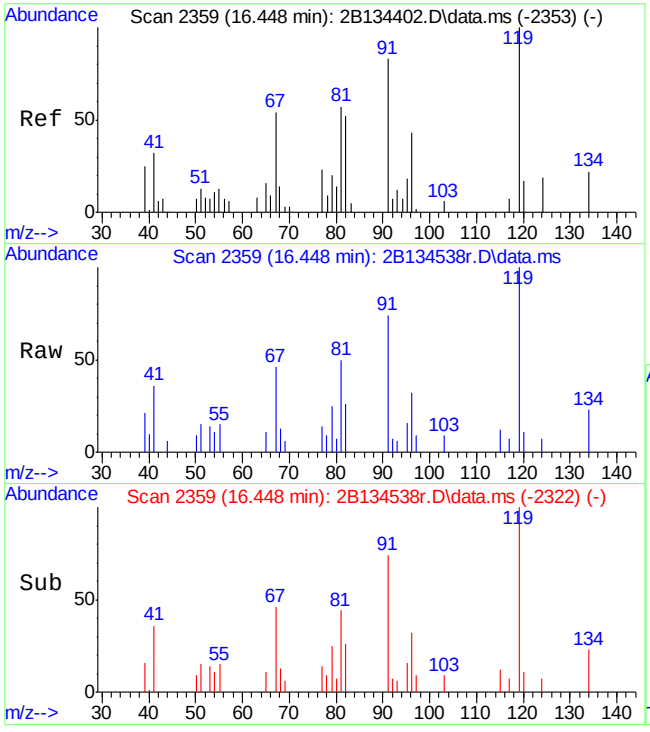


#114
n-propylbenzene
Concen: 44.26 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 91 Resp: 334029

Ion	Ratio	Lower	Upper
91	100		
120	23.3	0.0	54.2
65	11.3	0.0	39.7

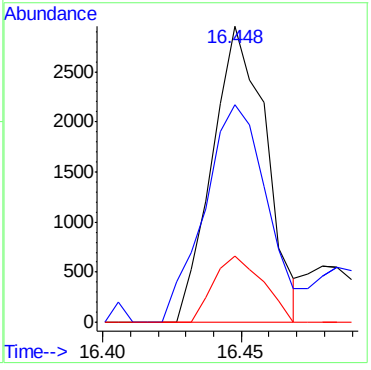


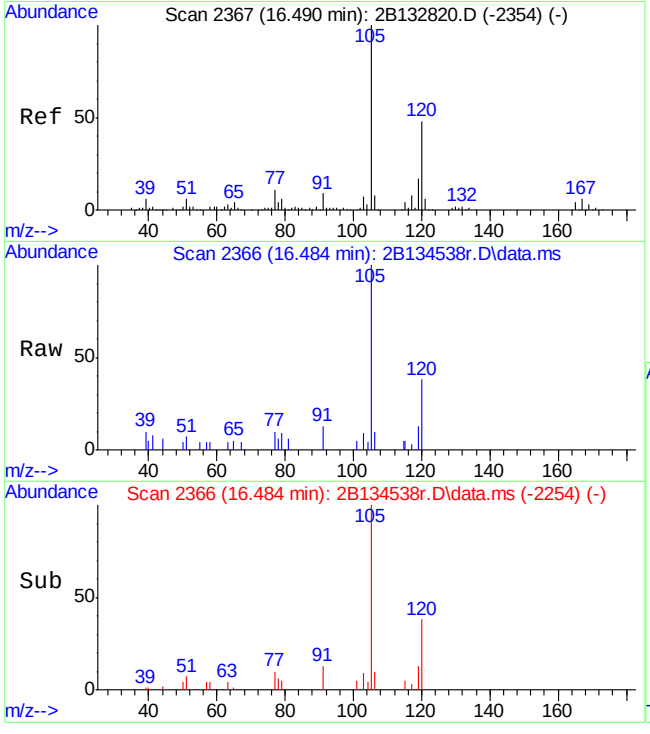


#118
tert-butylbenzene
Concen: 0.77 ug/L
RT: 16.448 min Scan# 2359
Delta R.T. -0.004 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:119 Resp: 3983

Ion	Ratio	Lower	Upper
119	100		
91	73.6	31.7	91.7
134	22.5	0.0	53.4

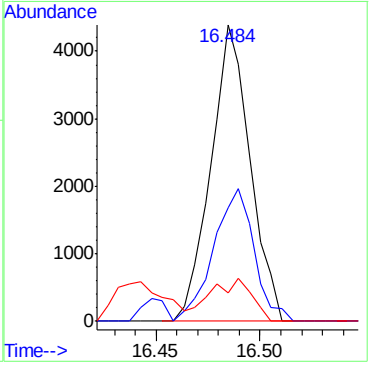


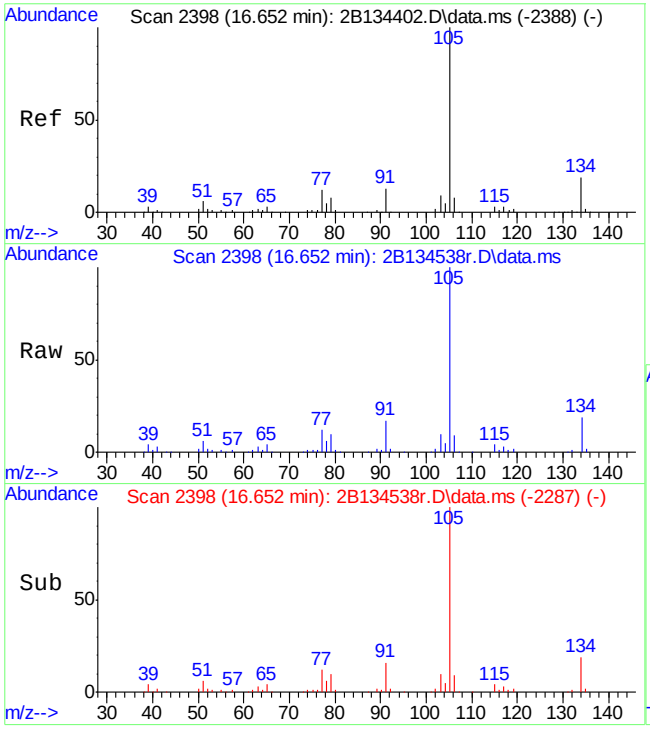


#120
1,2,4-trimethylbenzene
Concen: 1.03 ug/L
RT: 16.484 min Scan# 2366
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:105 Resp: 5770

Ion	Ratio	Lower	Upper
105	100		
120	38.3	18.5	78.5
77	9.5	0.0	41.2

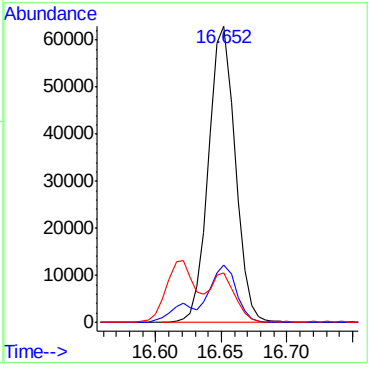


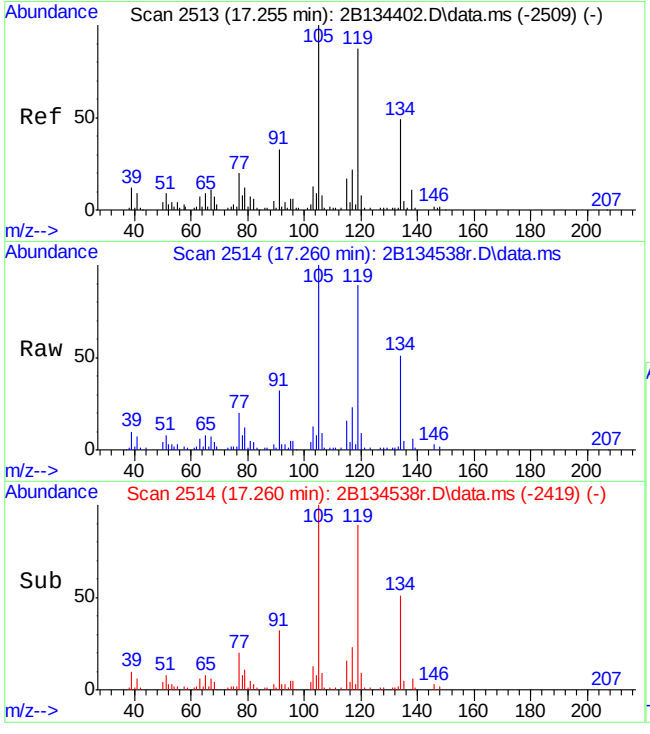


#121
sec-butylbenzene
Concen: 11.64 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. 0.000 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:105 Resp: 88490

Ion	Ratio	Lower	Upper
105	100		
134	19.2	0.0	49.9
91	16.7	0.0	44.6

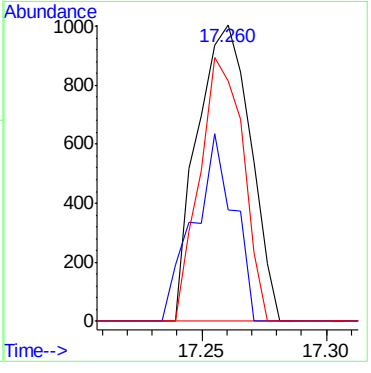


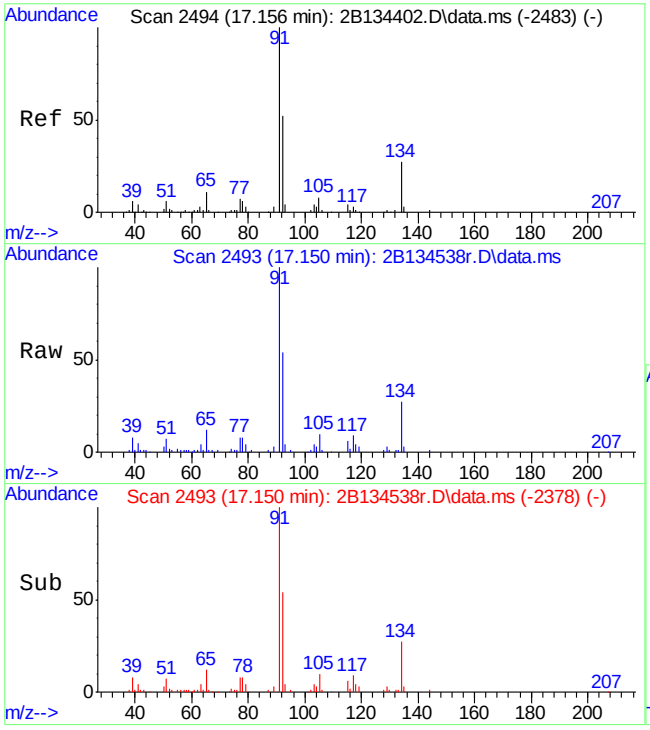


#125
1,2-dichlorobenzene
Concen: 0.39 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:146 Resp: 1490

Ion	Ratio	Lower	Upper
146	100		
111	37.6	5.0	65.0
148	81.0	37.0	97.0

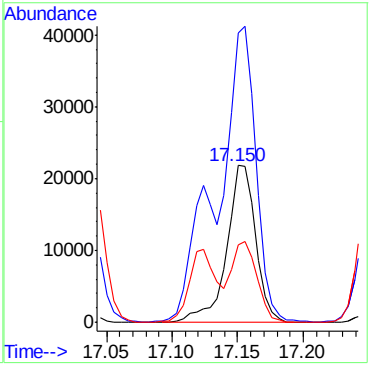


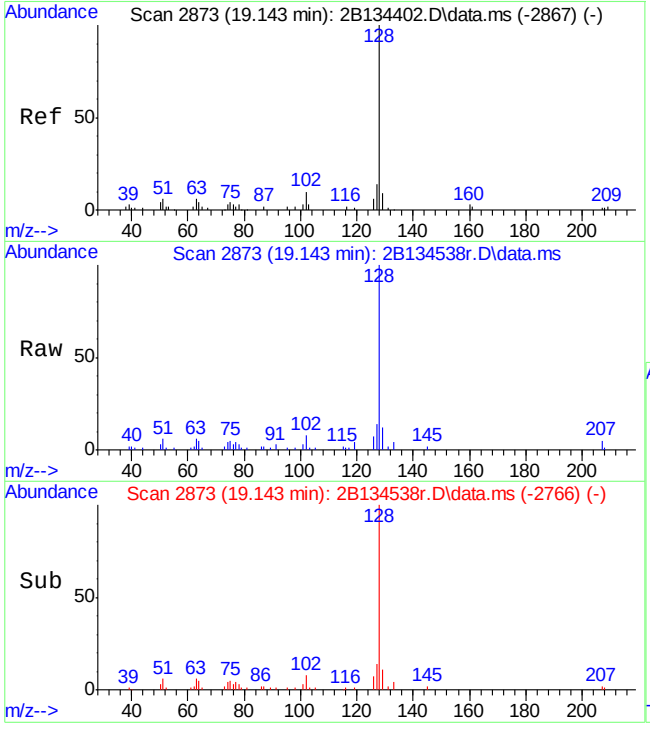


#126
n-butylbenzene
Concen: 10.48 ug/L
RT: 17.150 min Scan# 2493
Delta R.T. -0.005 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion: 92 Resp: 33672

Ion	Ratio	Lower	Upper
92	100		
91	183.7	149.3	209.3
134	49.3	20.6	80.6

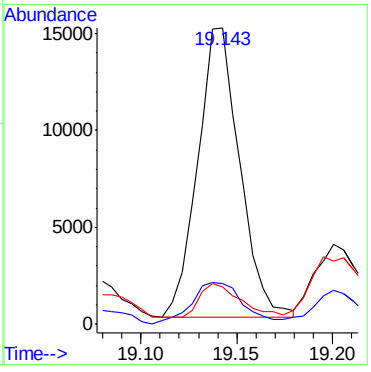




#131
naphthalene
Concen: 4.85 ug/L
RT: 19.143 min Scan# 2873
Delta R.T. 0.001 min
Lab File: 2B134538r.D
Acq: 16 Sep 2015 7:26 pm

Tgt Ion:128 Resp: 22779

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5
129	10.2	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134439r.D
Acq On : 14 Sep 2015 6:47 pm
Operator : BridgetK
Sample : jc3254-13R
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 12:21:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	101131	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	440557	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	416265	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	343496	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	181000	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	149153	51.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 102.06%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	167733	55.77	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.54%			
82) toluene-d8 (s)	13.302	98	462612	52.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.38%			
108) 4-bromofluorobenzene (s)	15.771	95	156133	51.39	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.78%			
Target Compounds						Qvalue
53) freon 113	7.618	151	16278	8.65	ug/L	86
125) 1,2-dichlorobenzene	17.260	146	1944	0.44	ug/L	92

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

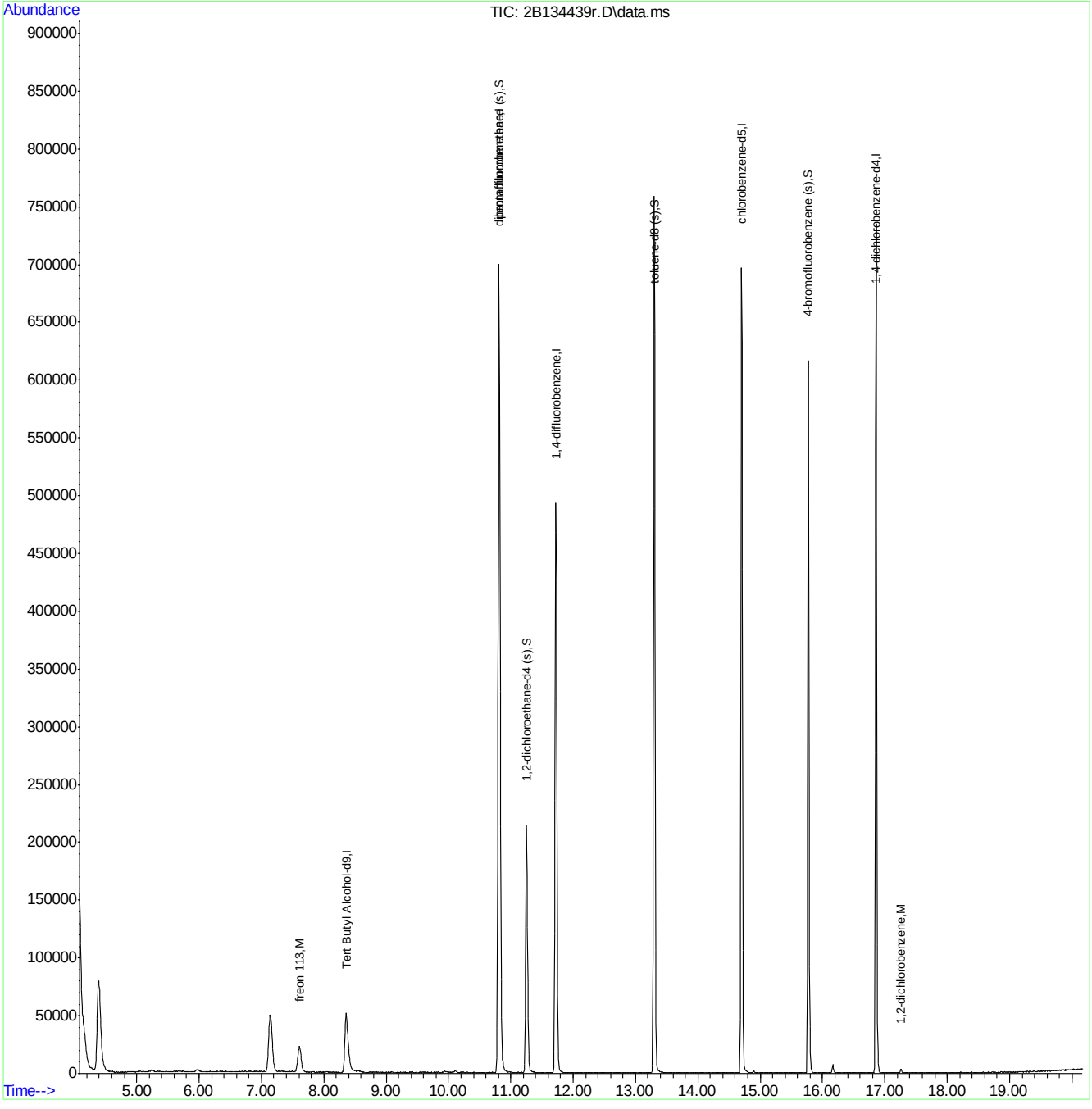
7.1.14

7

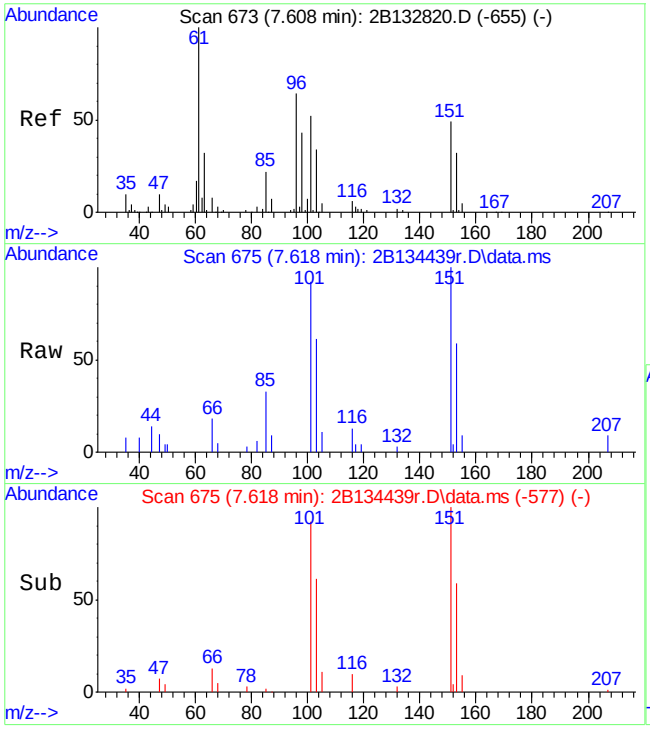
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134439r.D
Acq On : 14 Sep 2015 6:47 pm
Operator : BridgetK
Sample : jc3254-13R
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 12:21:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



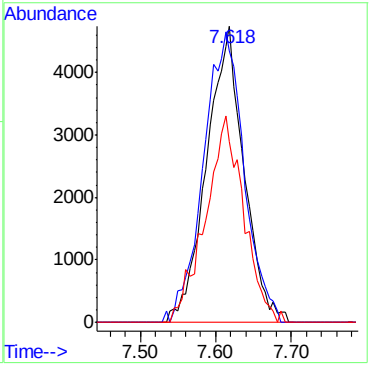
M2B5926.M Mon Dec 21 12:24:30 2015 ACC-VOA-CLN-05A Page: 2

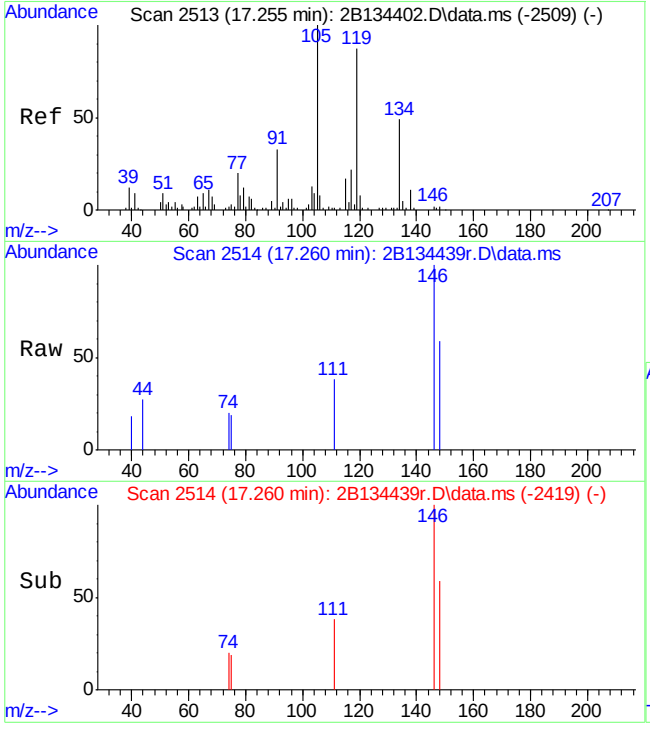


#53
freon 113
Concen: 8.65 ug/L
RT: 7.618 min Scan# 675
Delta R.T. 0.011 min
Lab File: 2B134439r.D
Acq: 14 Sep 2015 6:47 pm

Tgt Ion:151 Resp: 16278

Ion	Ratio	Lower	Upper
151	100		
101	91.8	77.5	137.5
103	61.0	40.8	100.8

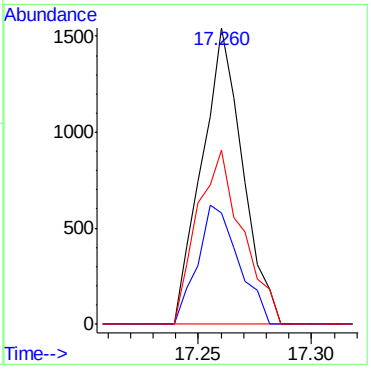




#125
1,2-dichlorobenzene
Concen: 0.44 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 2B134439r.D
Acq: 14 Sep 2015 6:47 pm

Tgt Ion:146 Resp: 1944

Ion	Ratio	Lower	Upper
146	100		
111	37.7	5.0	65.0
148	58.8	37.0	97.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134536r.D
Acq On : 16 Sep 2015 6:29 pm
Operator : BridgetK
Sample : jc3254-14R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 15:21:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

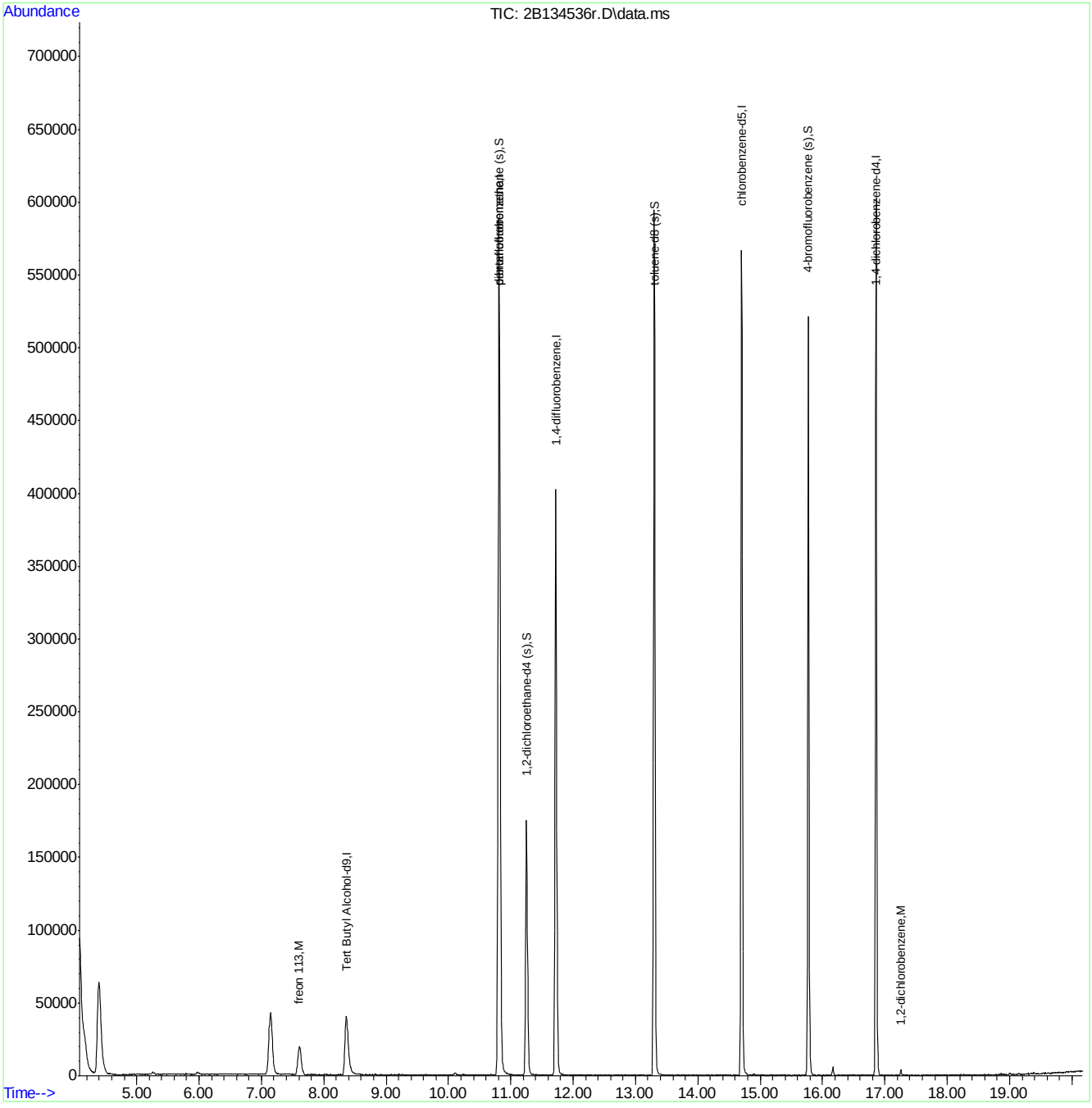
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	81030	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	368608	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	338722	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	278999	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	148131	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	120811	49.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 98.82%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	141251	56.13	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.26%			
82) toluene-d8 (s)	13.302	98	369788	51.27	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 102.54%			
108) 4-bromofluorobenzene (s)	15.771	95	128987	51.88	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.76%			
Target Compounds						Qvalue
53) freon 113	7.603	151	14689	9.33	ug/L	89
125) 1,2-dichlorobenzene	17.255	146	1822	0.50	ug/L	81

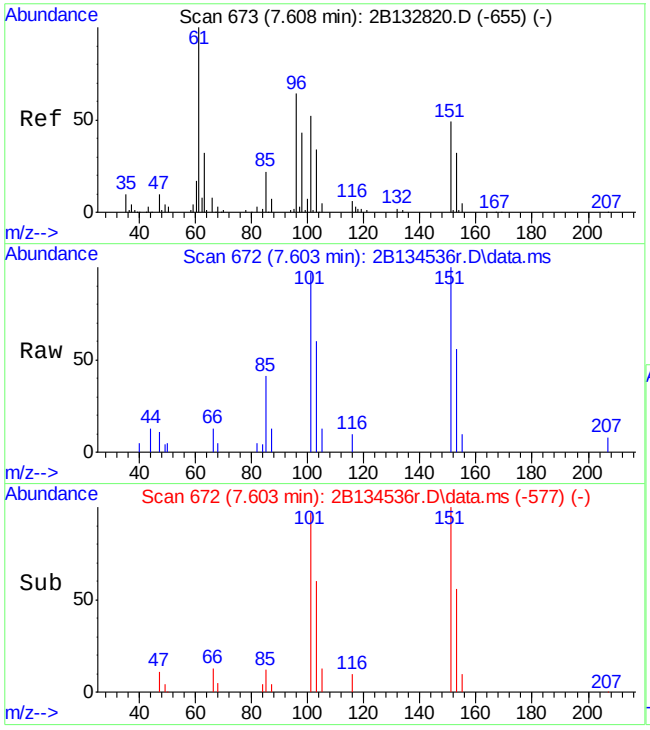
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134536r.D
Acq On : 16 Sep 2015 6:29 pm
Operator : BridgetK
Sample : jc3254-14R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 15:21:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

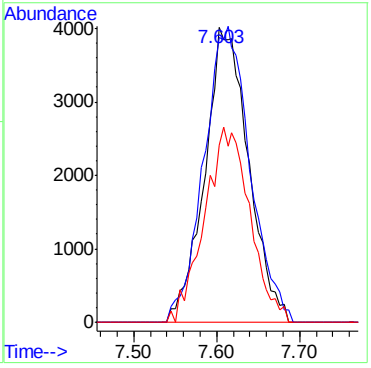


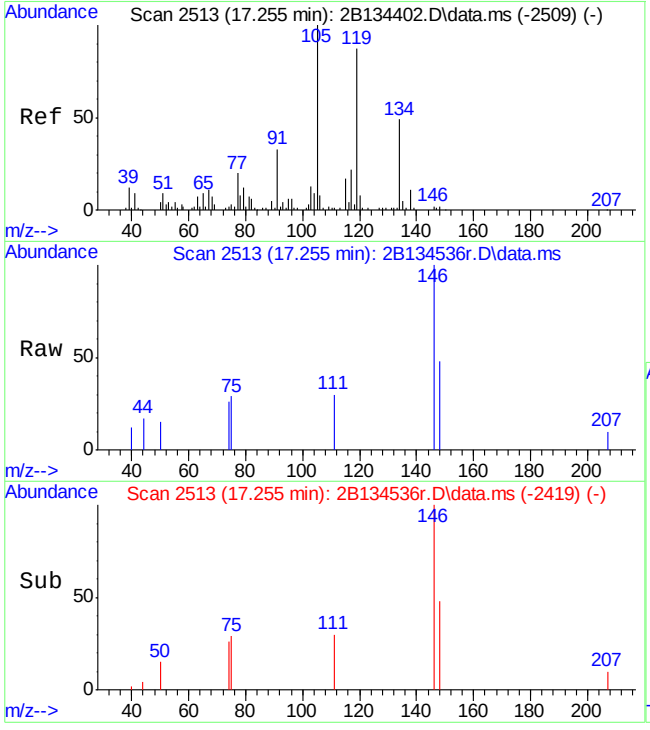


#53
freon 113
Concen: 9.33 ug/L
RT: 7.603 min Scan# 672
Delta R.T. -0.004 min
Lab File: 2B134536r.D
Acq: 16 Sep 2015 6:29 pm

Tgt Ion:151 Resp: 14689

Ion	Ratio	Lower	Upper
151	100		
101	96.7	77.5	137.5
103	60.2	40.8	100.8

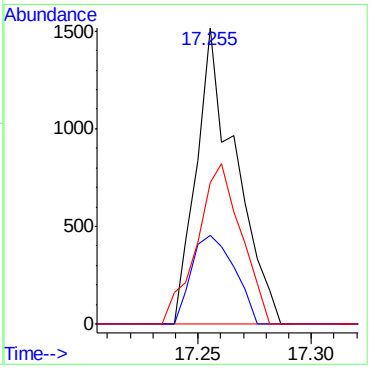




#125
1,2-dichlorobenzene
Concen: 0.50 ug/L
RT: 17.255 min Scan# 2513
Delta R.T. -0.005 min
Lab File: 2B134536r.D
Acq: 16 Sep 2015 6:29 pm

Tgt Ion:146 Resp: 1822

Ion	Ratio	Lower	Upper
146	100		
111	30.0	5.0	65.0
148	47.7	37.0	97.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134537r.D
Acq On : 16 Sep 2015 6:57 pm
Operator : BridgetK
Sample : jc3254-15R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 15:23:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

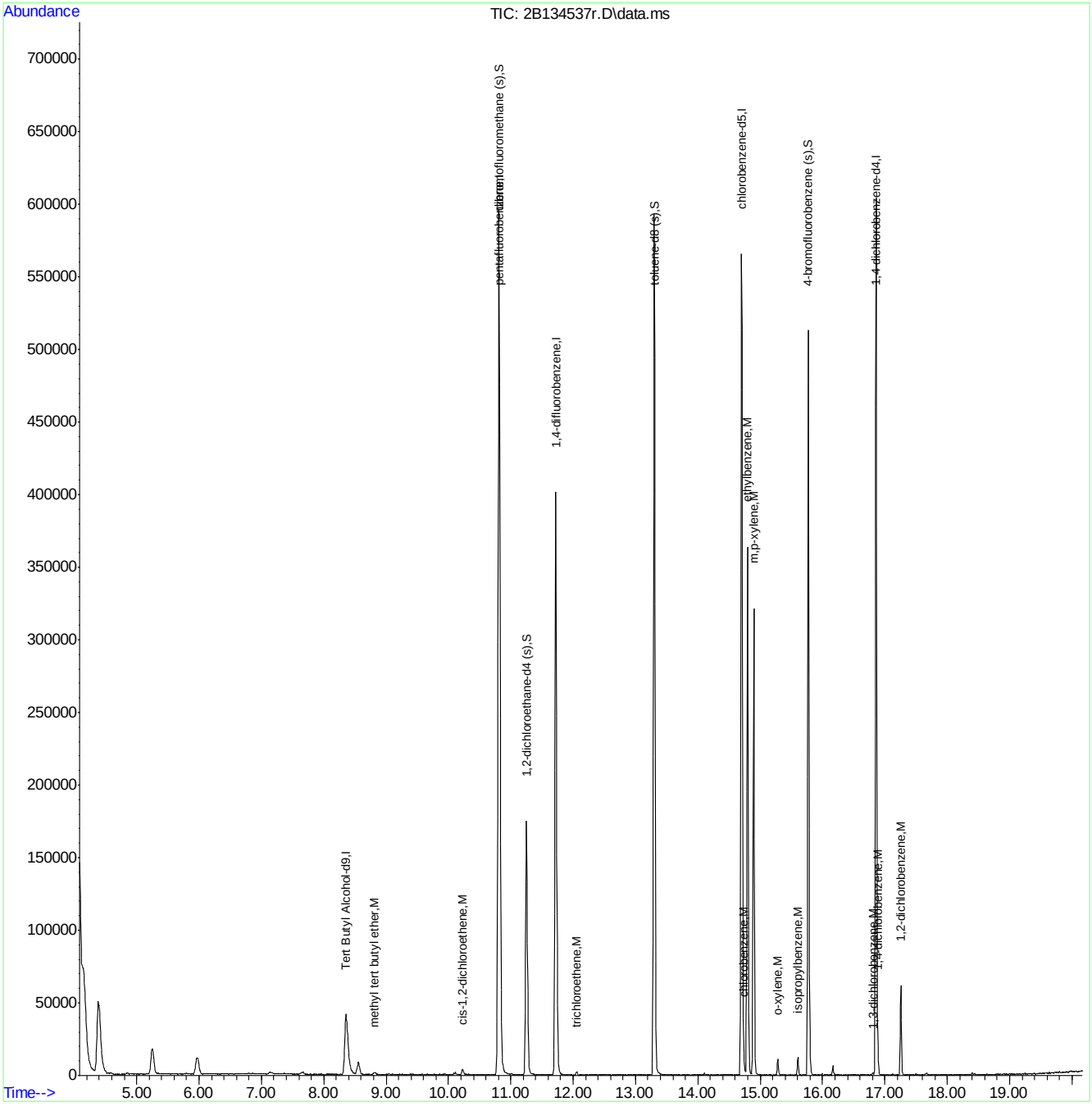
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	81405	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	363449	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	337465	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	277282	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	147745	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	121717	50.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.96%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	139992	56.42	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.84%			
82) toluene-d8 (s)	13.302	98	367767	51.18	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 102.36%			
108) 4-bromofluorobenzene (s)	15.771	95	127997	51.61	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.22%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.814	73	1927	0.40	ug/L	54
45) cis-1,2-dichloroethene	10.229	96	2086	0.96	ug/L	84
72) trichloroethene	12.054	95	594	0.35	ug/L	80
98) chlorobenzene	14.733	112	5115	1.25	ug/L	95
100) ethylbenzene	14.796	91	225238	33.93	ug/L	96
101) m,p-xylene	14.896	106	82295	31.26	ug/L	85
102) o-xylene	15.284	106	2913	1.05	ug/L	100
107) isopropylbenzene	15.604	105	7546	1.13	ug/L	98
122) 1,3-dichlorobenzene	16.809	146	915	0.24	ug/L	83
124) 1,4-dichlorobenzene	16.883	146	4265	1.15	ug/L	89
125) 1,2-dichlorobenzene	17.255	146	23988	6.66	ug/L	96

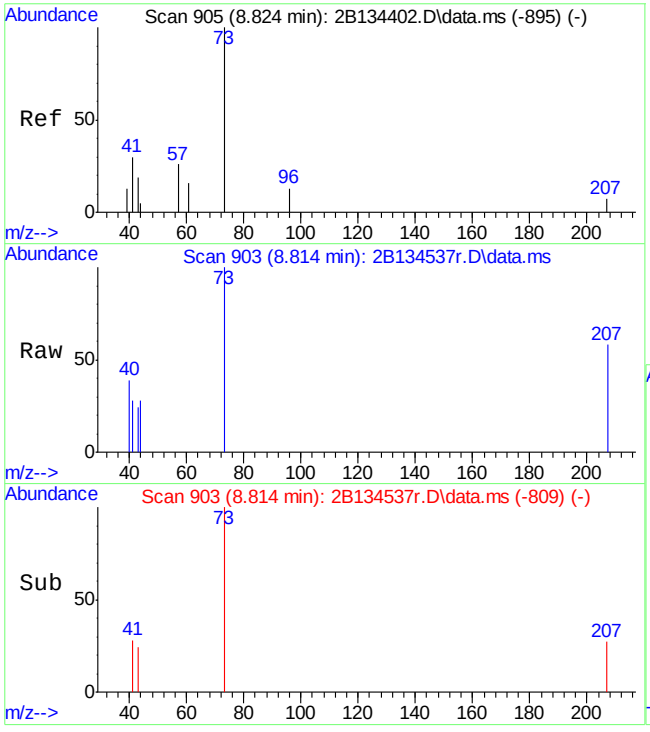
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5994\
Data File : 2B134537r.D
Acq On : 16 Sep 2015 6:57 pm
Operator : BridgetK
Sample : jc3254-15R
Misc : ms90889,v2B5994,w,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 15:23:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

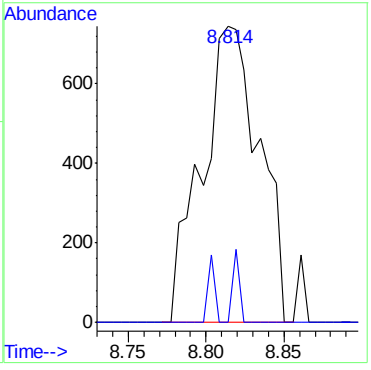


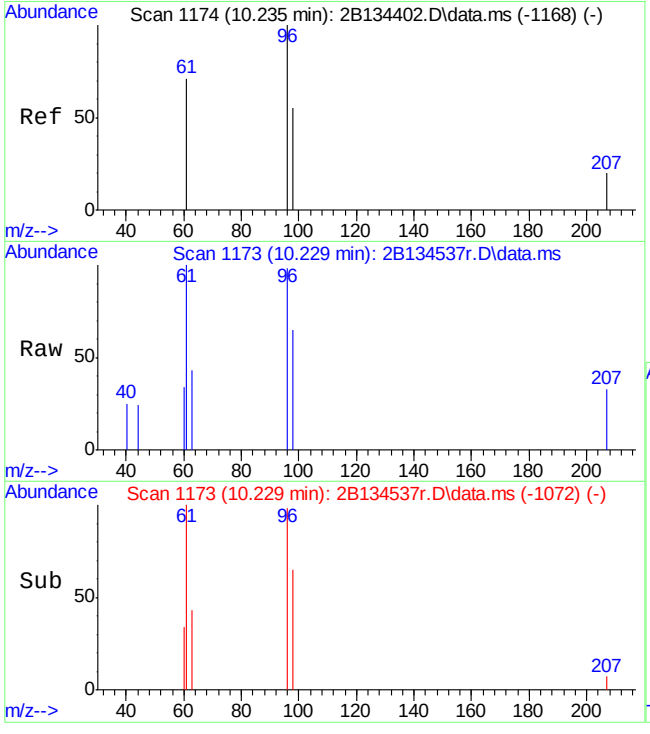


#34
methyl tert butyl ether
Concen: 0.40 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion: 73 Resp: 1927

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	52.0

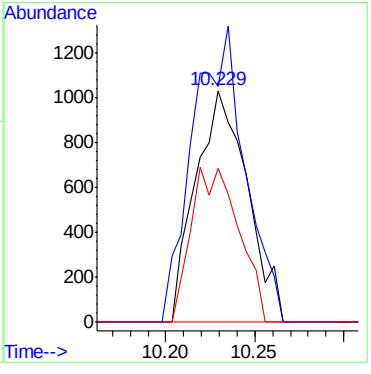


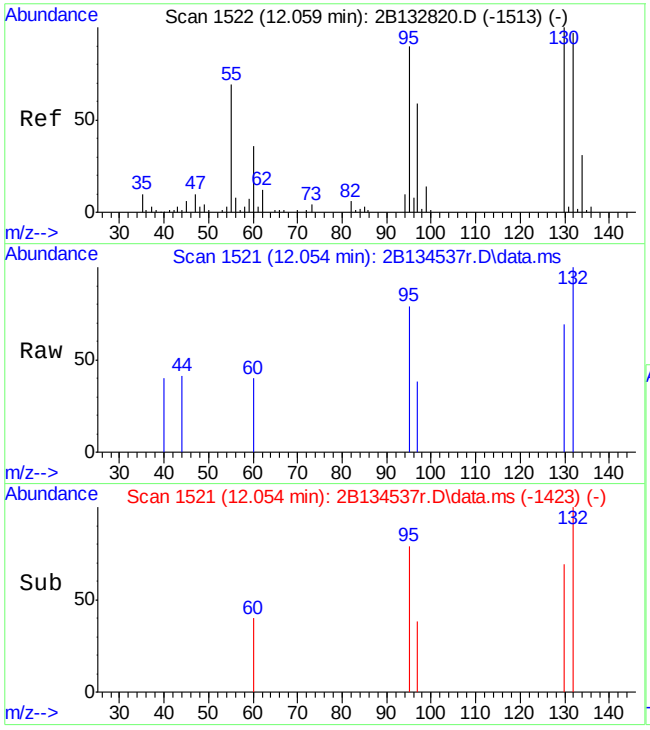


#45
cis-1,2-dichloroethene
Concen: 0.96 ug/L
RT: 10.229 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion: 96 Resp: 2086

Ion	Ratio	Lower	Upper
96	100		
61	101.7	96.0	156.0
98	66.2	32.9	92.9

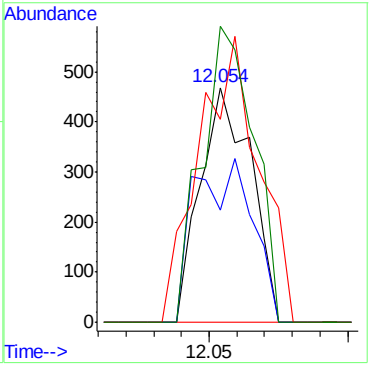


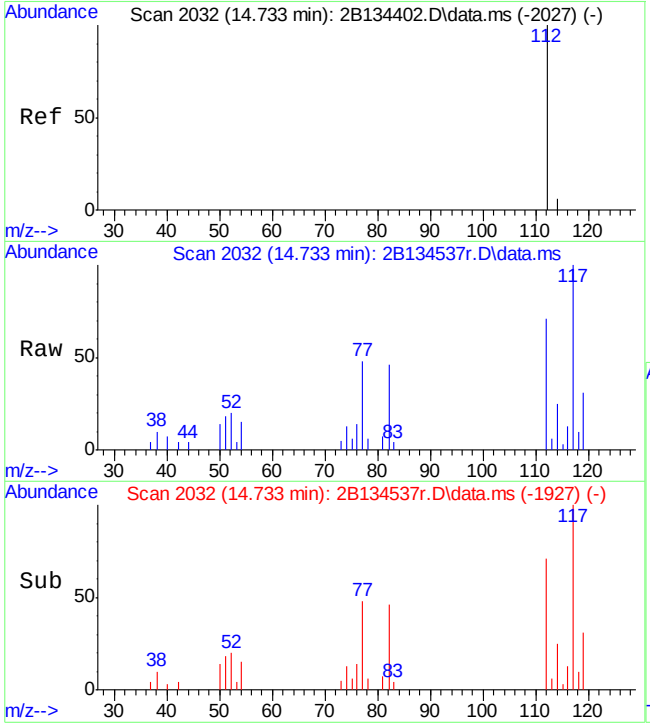


#72
trichloroethene
Concen: 0.35 ug/L
RT: 12.054 min Scan# 1521
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion: 95 Resp: 594

Ion	Ratio	Lower	Upper
95	100		
97	47.6	34.5	94.5
130	86.5	78.9	138.9
132	126.3	77.1	137.1

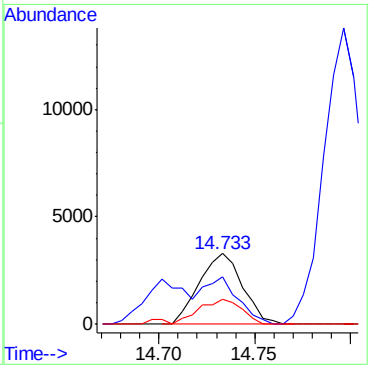


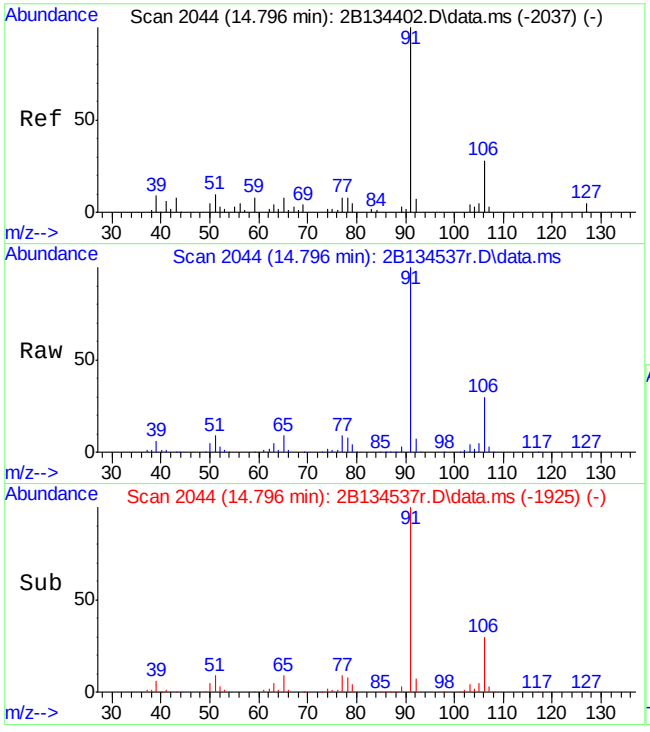


#98
chlorobenzene
Concen: 1.25 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:112 Resp: 5115

Ion	Ratio	Lower	Upper
112	100		
77	56.3	23.5	83.5
114	35.4	1.6	61.6

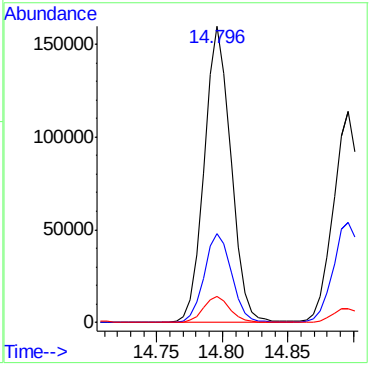


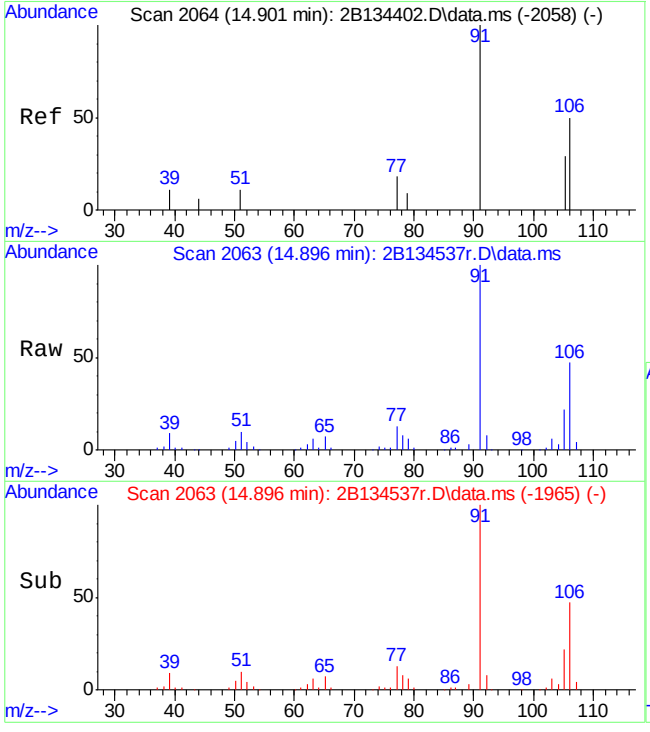


#100
ethylbenzene
Concen: 33.93 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion: 91 Resp: 225238

Ion	Ratio	Lower	Upper
91	100		
106	29.9	2.4	62.4
65	8.7	0.0	38.1

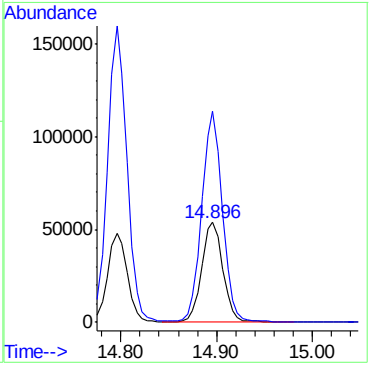


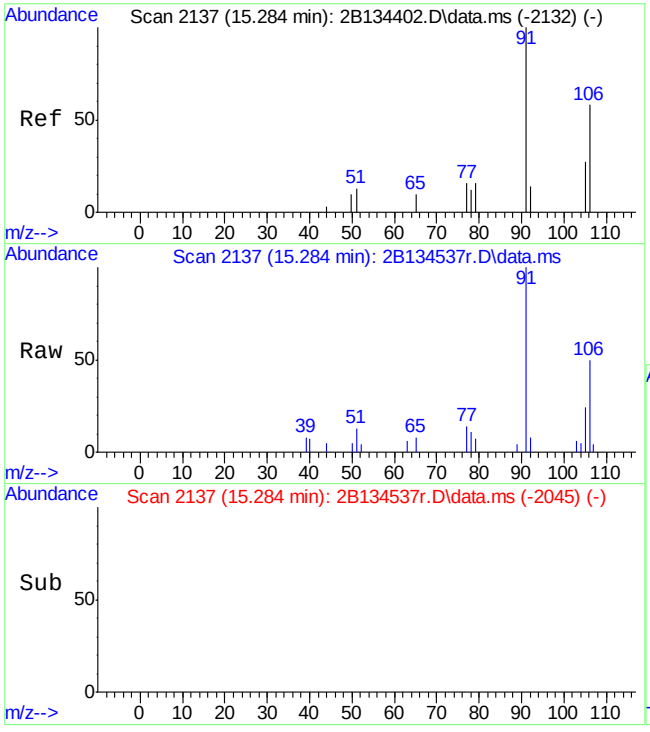


#101
m,p-xylene
Concen: 31.26 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:106 Resp: 82295

Ion	Ratio	Lower	Upper
106	100		
91	211.7	159.7	219.7

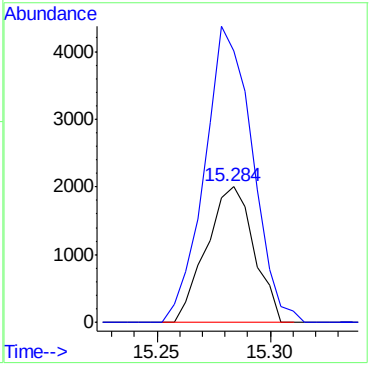


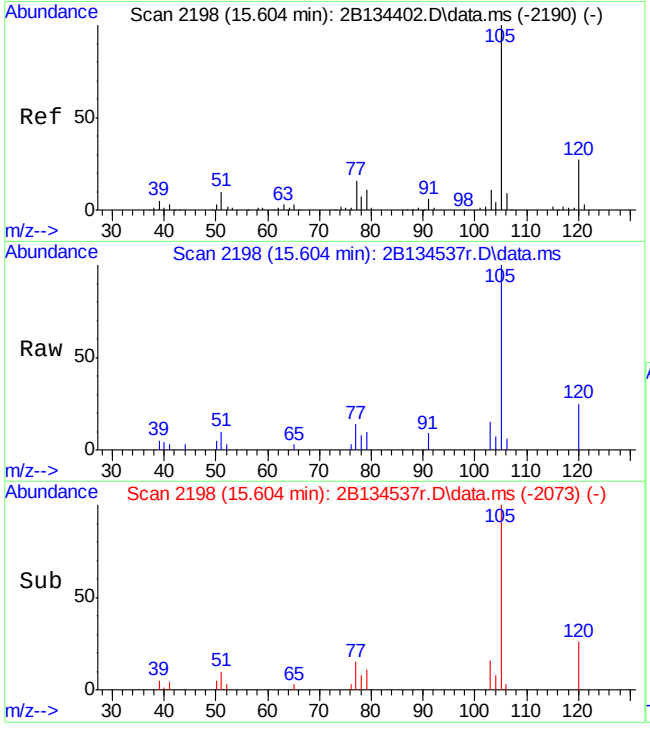


#102
o-xylene
Concen: 1.05 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:106 Resp: 2913

Ion	Ratio	Lower	Upper
106	100		
91	199.4	170.1	230.1

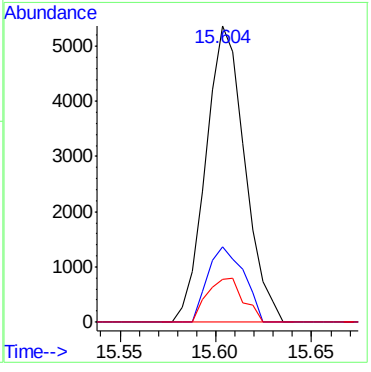


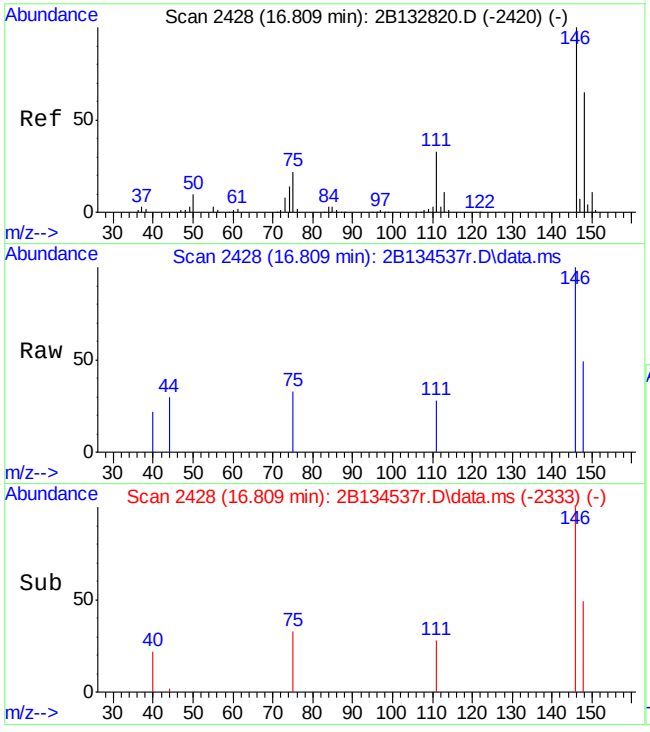


#107
isopropylbenzene
Concen: 1.13 ug/L
RT: 15.604 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:105 Resp: 7546

Ion	Ratio	Lower	Upper
105	100		
120	25.4	0.0	56.6
77	14.3	0.0	43.7

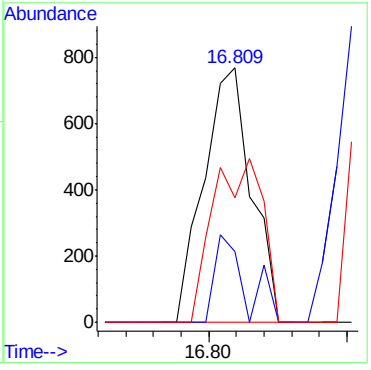


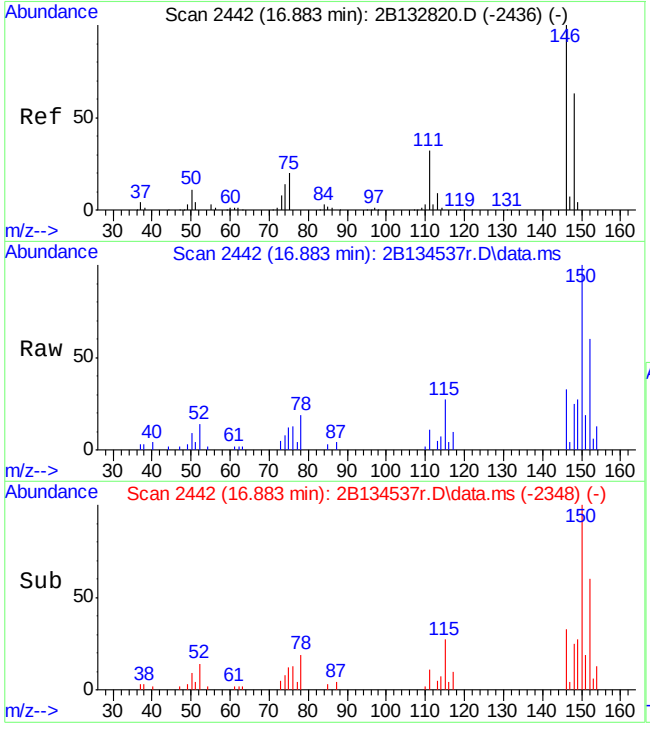


#122
1,3-dichlorobenzene
Concen: 0.24 ug/L
RT: 16.809 min Scan# 2428
Delta R.T. 0.000 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:146 Resp: 915

Ion	Ratio	Lower	Upper
146	100		
111	27.6	3.3	63.3
148	48.8	35.7	95.7

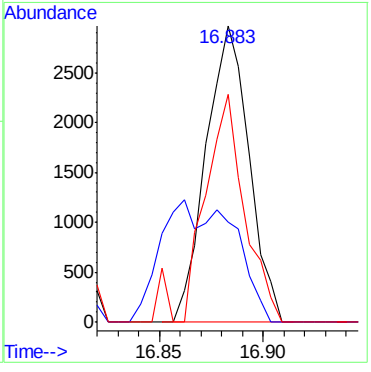


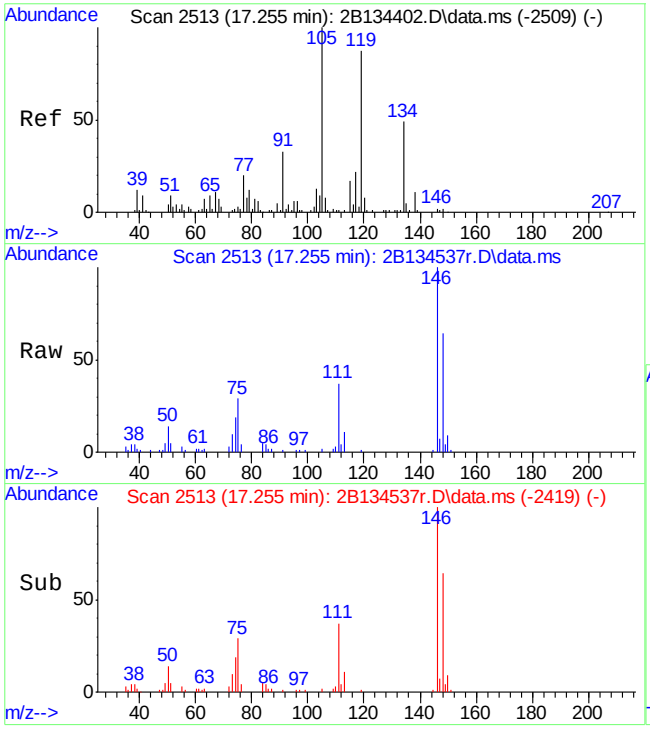


#124
1,4-dichlorobenzene
Concen: 1.15 ug/L
RT: 16.883 min Scan# 2442
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:146 Resp: 4265

Ion	Ratio	Lower	Upper
146	100		
111	33.8	2.0	62.0
148	76.8	35.5	95.5

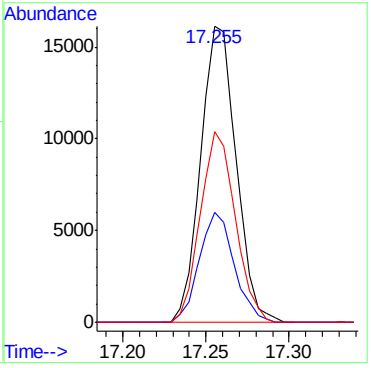




#125
1,2-dichlorobenzene
Concen: 6.66 ug/L
RT: 17.255 min Scan# 2513
Delta R.T. -0.005 min
Lab File: 2B134537r.D
Acq: 16 Sep 2015 6:57 pm

Tgt Ion:146 Resp: 23988

Ion	Ratio	Lower	Upper
146	100		
111	37.1	5.0	65.0
148	64.2	37.0	97.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134400r.D
Acq On : 12 Sep 2015 12:10 pm
Operator : BridgetK
Sample : jc3254-16R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 10:59:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

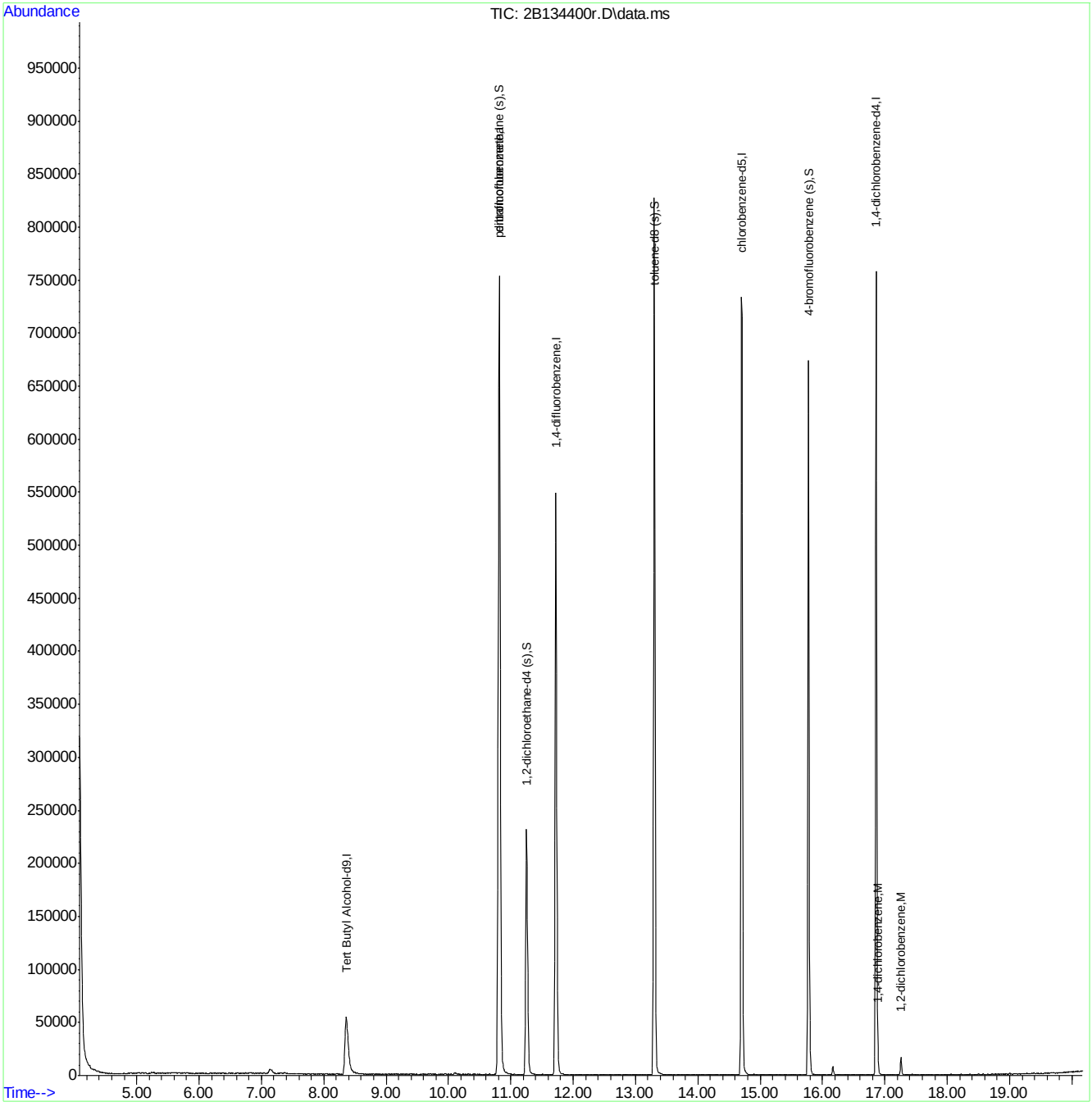
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	106169	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	468125	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	453294	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	371075	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	190457	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	163151	52.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.08%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	180829	56.58	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.16%			
82) toluene-d8 (s)	13.302	98	500789	51.88	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.76%			
108) 4-bromofluorobenzene (s)	15.776	95	165660	51.82	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.64%			
Target Compounds						Qvalue
124) 1,4-dichlorobenzene	16.888	146	2279	0.48	ug/L	86
125) 1,2-dichlorobenzene	17.260	146	7153	1.54	ug/L	97

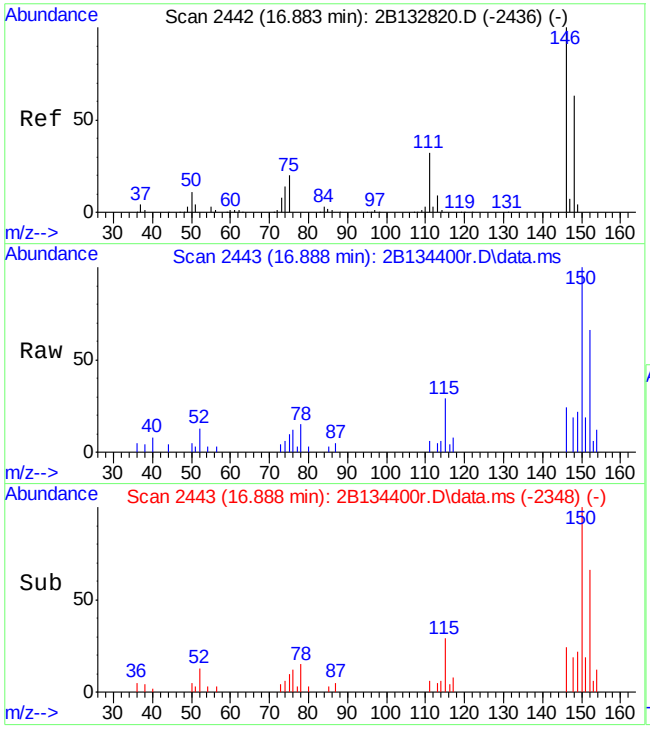
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134400r.D
Acq On : 12 Sep 2015 12:10 pm
Operator : BridgetK
Sample : jc3254-16R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 10:59:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

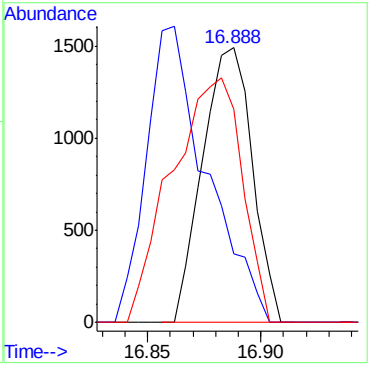


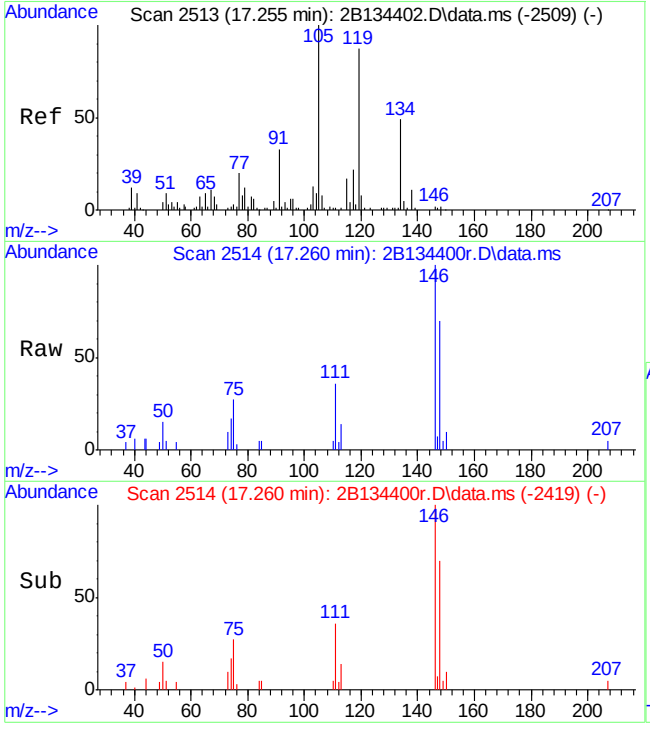


#124
1,4-dichlorobenzene
Concen: 0.48 ug/L
RT: 16.888 min Scan# 2443
Delta R.T. -0.000 min
Lab File: 2B134400r.D
Acq: 12 Sep 2015 12:10 pm

Tgt Ion:146 Resp: 2279

Ion	Ratio	Lower	Upper
146	100		
111	24.7	2.0	62.0
148	77.3	35.5	95.5

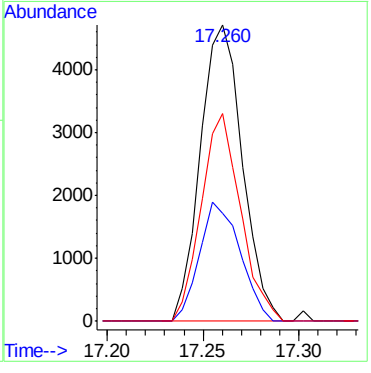




#125
1,2-dichlorobenzene
Concen: 1.54 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. -0.000 min
Lab File: 2B134400r.D
Acq: 12 Sep 2015 12:10 pm

Tgt Ion:146 Resp: 7153

Ion	Ratio	Lower	Upper
146	100		
111	36.4	5.0	65.0
148	70.1	37.0	97.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134401r.D
Acq On : 12 Sep 2015 12:38 pm
Operator : BridgetK
Sample : jc3254-17R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 21 11:04:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

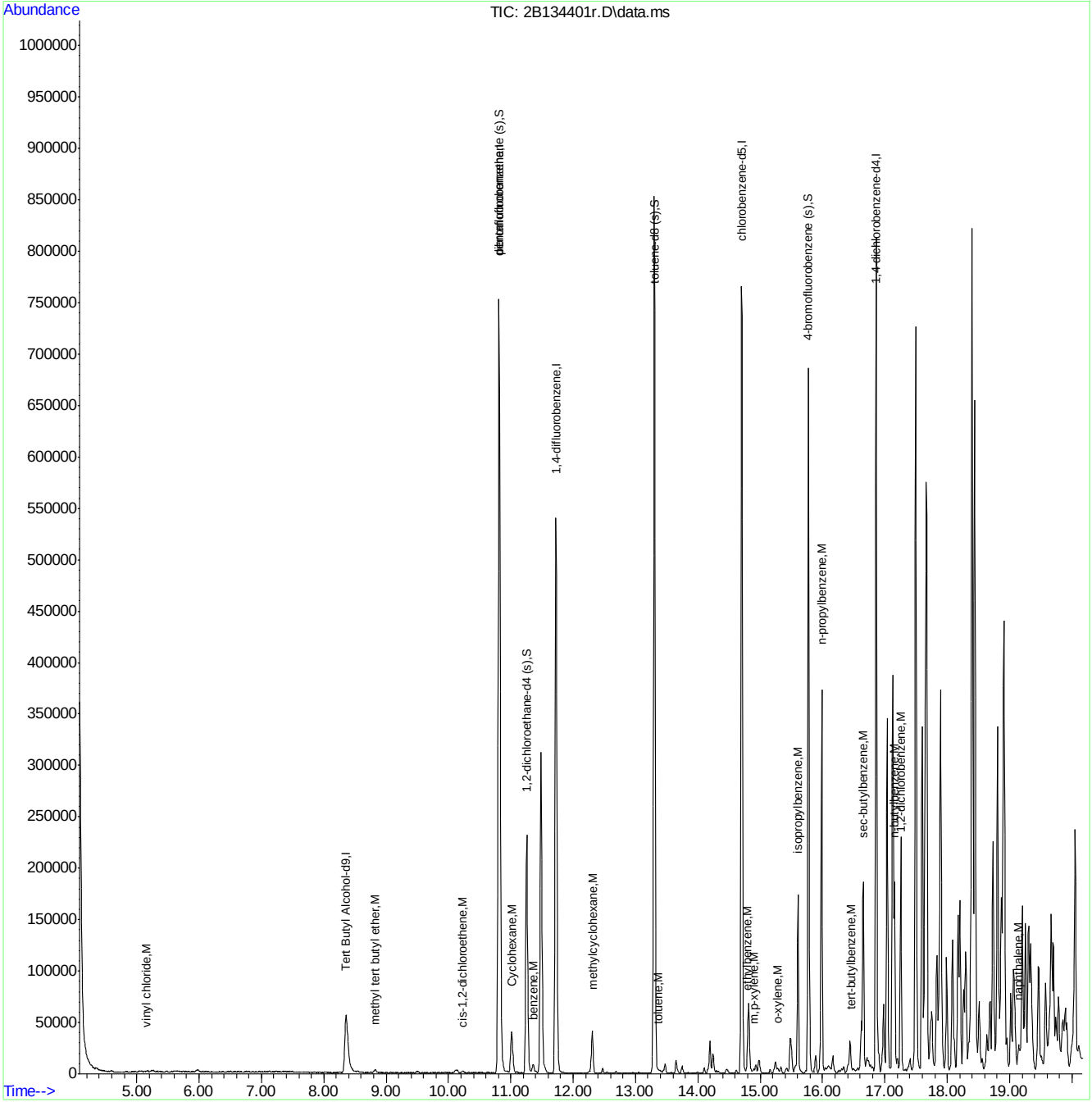
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	107391	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	462674	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	451545	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	377785	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	207539	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	163542	53.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.56%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	182022	57.63	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.26%			
82) toluene-d8 (s)	13.302	98	510778	53.12	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.24%			
108) 4-bromofluorobenzene (s)	15.771	95	177200	50.87	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 101.74%			
Target Compounds						Qvalue
13) vinyl chloride	5.154	62	1321	0.39	ug/L #	51
34) methyl tert butyl ether	8.824	73	2931	0.48	ug/L	62
45) cis-1,2-dichloroethene	10.224	96	1137	0.41	ug/L	79
56) Cyclohexane	11.016	84	16148	4.82	ug/L #	38
66) benzene	11.362	78	7951	0.97	ug/L	87
79) methylcyclohexane	12.311	83	14170	4.26	ug/L	95
84) toluene	13.370	92	994	0.19	ug/L	91
100) ethylbenzene	14.796	91	20385	2.25	ug/L	92
101) m,p-xylene	14.896	106	1218	0.34	ug/L #	65
102) o-xylene	15.278	106	1173	0.31	ug/L	81
107) isopropylbenzene	15.609	105	98646	10.51	ug/L	97
114) n-propylbenzene	15.986	91	244081	24.35	ug/L	99
118) tert-butylbenzene	16.453	119	4040	0.59	ug/L	92
121) sec-butylbenzene	16.652	105	106408	10.53	ug/L	98
125) 1,2-dichlorobenzene	17.260	146	1293	0.26	ug/L	94
126) n-butylbenzene	17.155	92	46451	10.88	ug/L	96
131) naphthalene	19.142	128	14144	2.27	ug/L	95

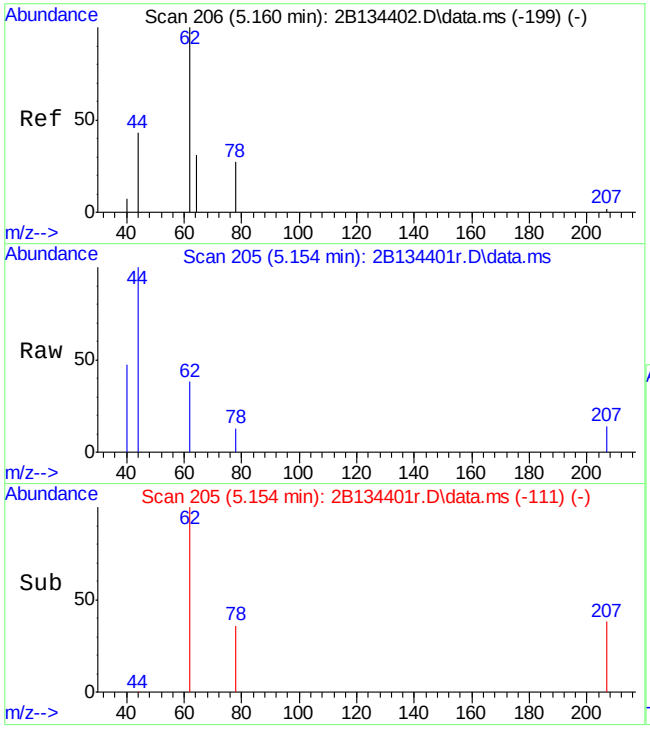
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134401r.D
Acq On : 12 Sep 2015 12:38 pm
Operator : BridgetK
Sample : jc3254-17R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 21 11:04:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

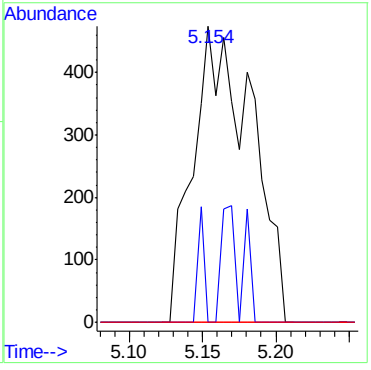


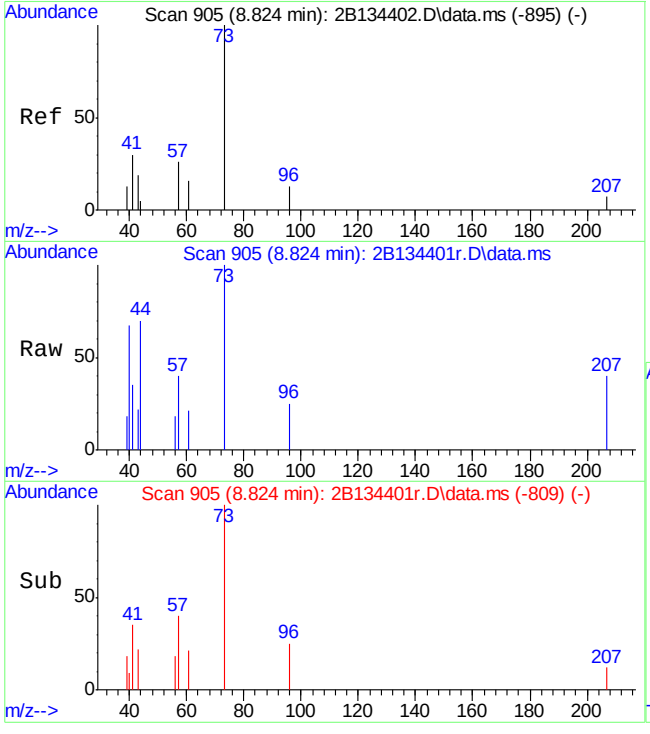


#13
vinyl chloride
Concen: 0.39 ug/L
RT: 5.154 min Scan# 205
Delta R.T. -0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 62 Resp: 1321

Ion	Ratio	Lower	Upper
62	100		
64	0.0	0.6	60.6#
61	0.0	0.0	38.1

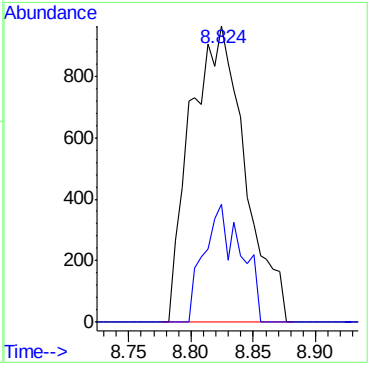


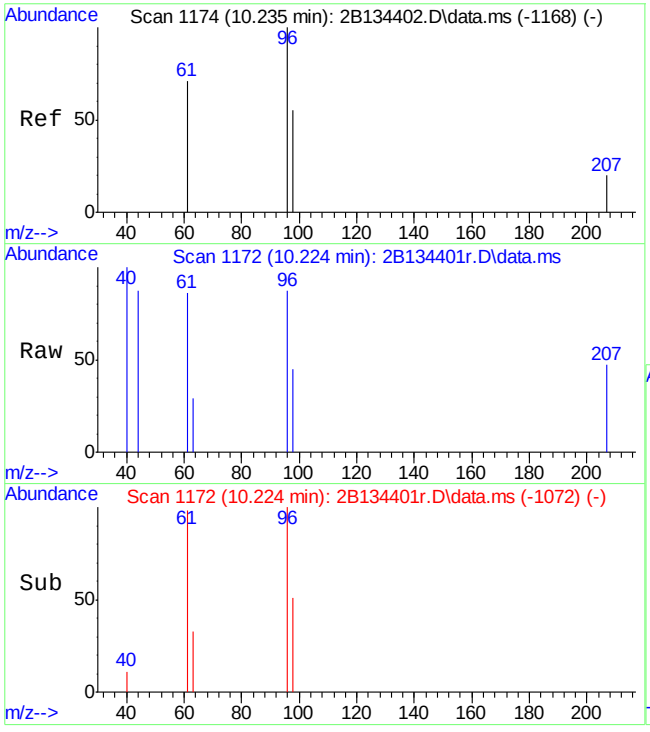


#34
methyl tert butyl ether
Concen: 0.48 ug/L
RT: 8.824 min Scan# 905
Delta R.T. 0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 73 Resp: 2931

Ion	Ratio	Lower	Upper
73	100		
57	39.9	0.0	52.0

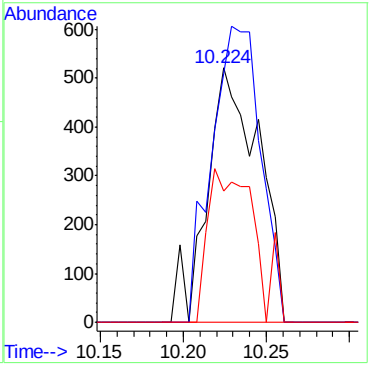


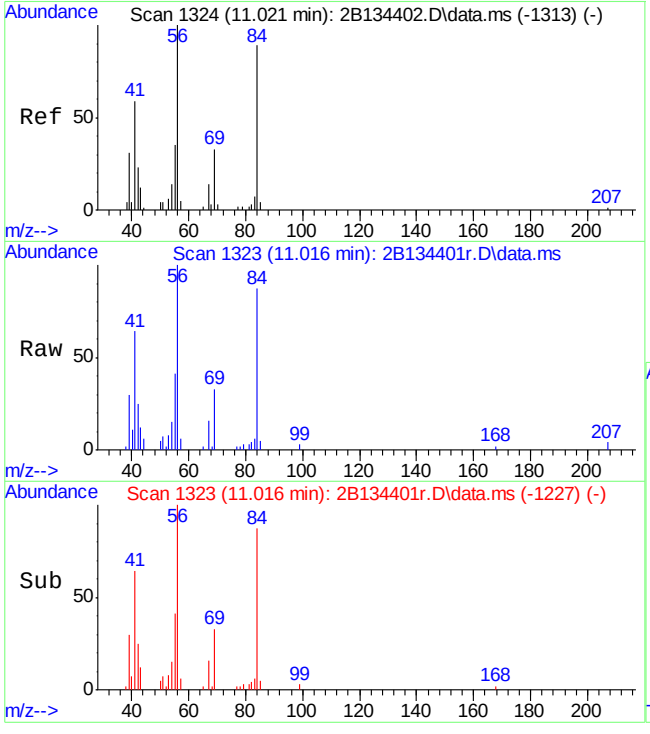


#45
cis-1,2-dichloroethene
Concen: 0.41 ug/L
RT: 10.224 min Scan# 1172
Delta R.T. -0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 96 Resp: 1137

Ion	Ratio	Lower	Upper
96	100		
61	97.9	96.0	156.0
98	51.4	32.9	92.9

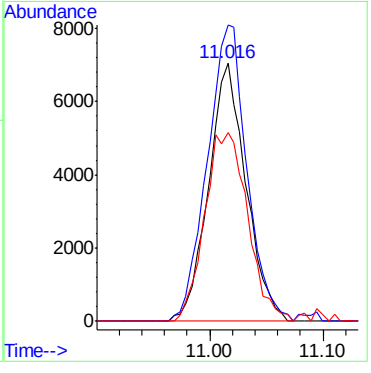


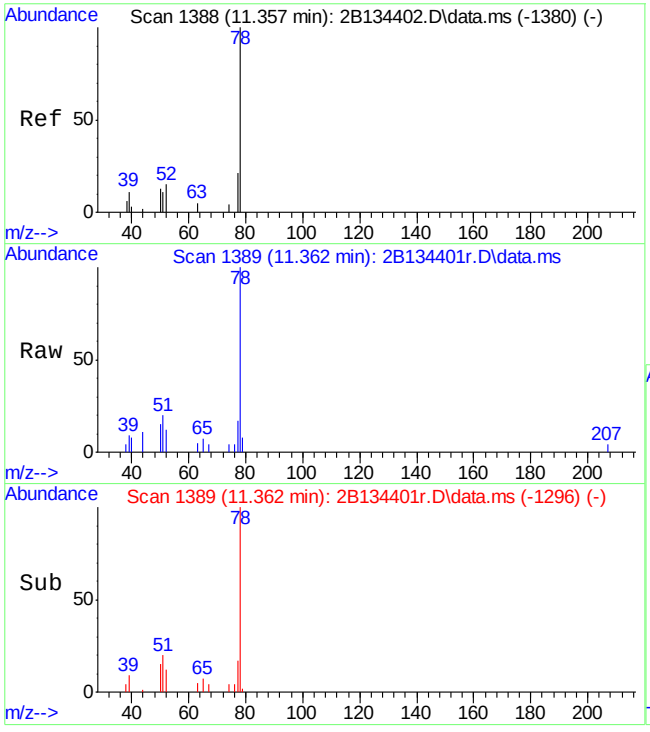


#56
Cyclohexane
Concen: 4.82 ug/L
RT: 11.016 min Scan# 1323
Delta R.T. 0.001 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 84 Resp: 16148

Ion	Ratio	Lower	Upper
84	100		
56	114.7	195.8	255.8#
41	73.0	102.7	162.7#

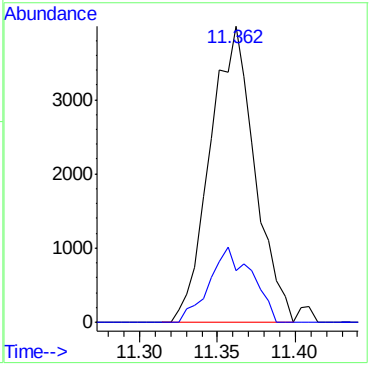


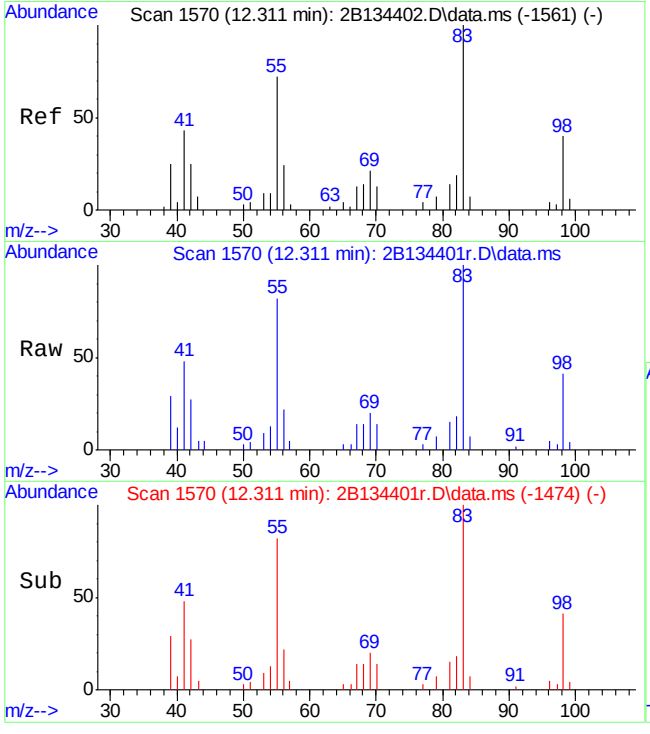


#66
benzene
Concen: 0.97 ug/L
RT: 11.362 min Scan# 1389
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 78 Resp: 7951

Ion	Ratio	Lower	Upper
78	100		
77	17.3	0.0	53.4

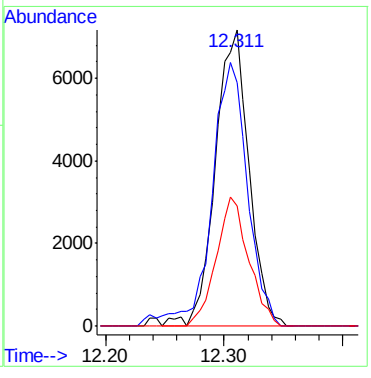


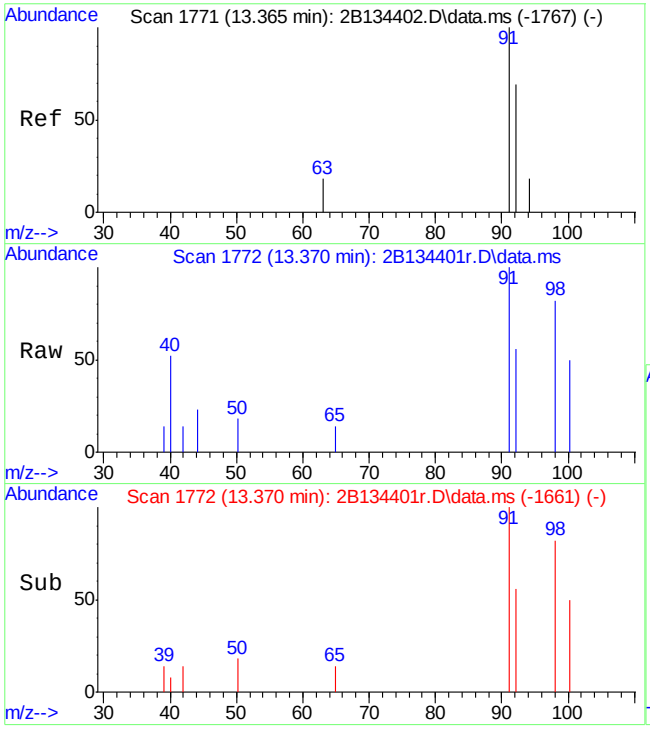


#79
methylcyclohexane
Concen: 4.26 ug/L
RT: 12.311 min Scan# 1570
Delta R.T. 0.006 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 83 Resp: 14170

Ion	Ratio	Lower	Upper
83	100		
55	82.0	47.5	107.5
98	40.8	14.4	74.4

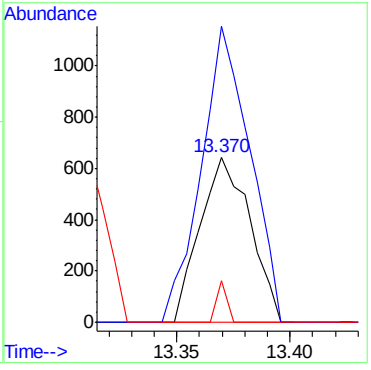


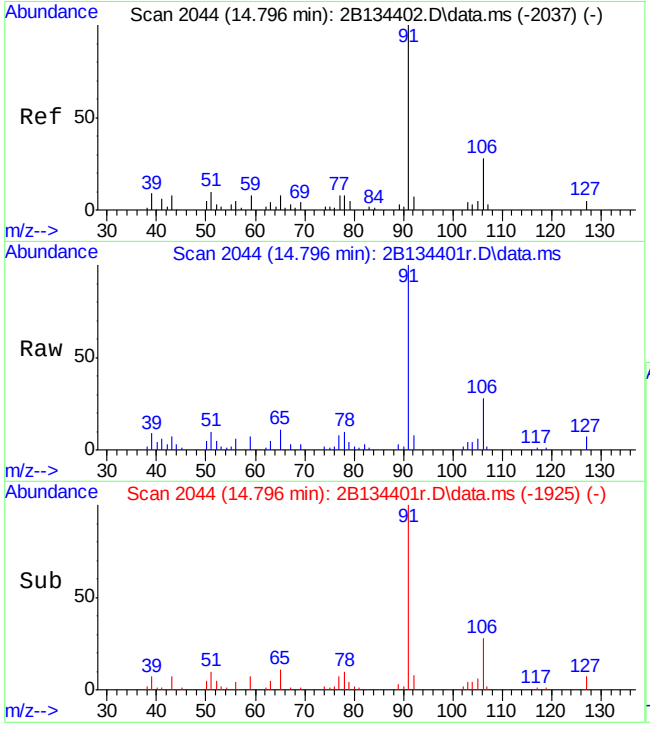


#84
toluene
Concen: 0.19 ug/L
RT: 13.370 min Scan# 1772
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 92 Resp: 994

Ion	Ratio	Lower	Upper
92	100		
91	179.1	137.1	197.1
65	24.8	0.0	48.1

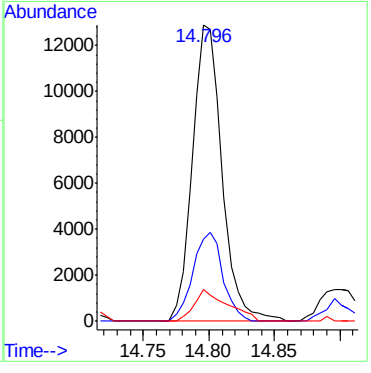


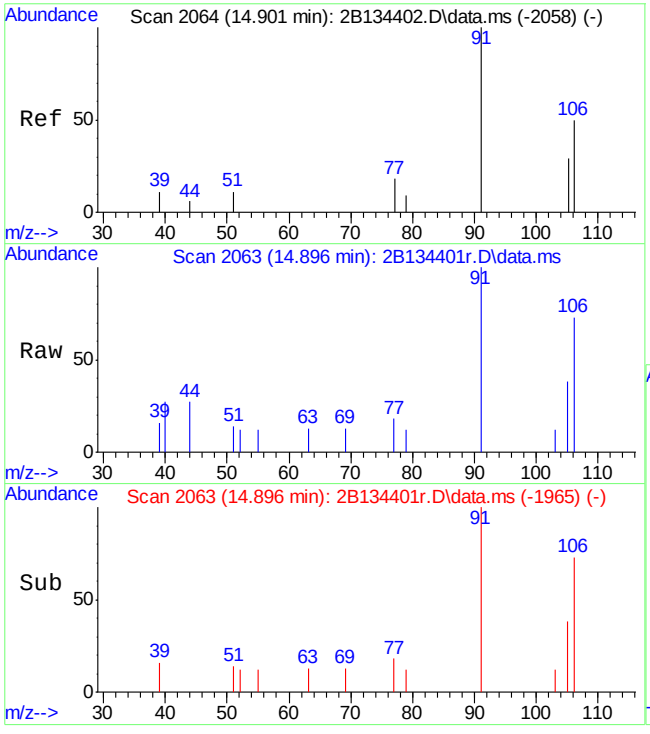


#100
ethylbenzene
Concen: 2.25 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 91 Resp: 20385

Ion	Ratio	Lower	Upper
91	100		
106	27.7	2.4	62.4
65	10.5	0.0	38.1

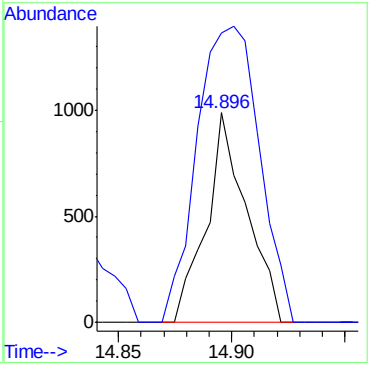


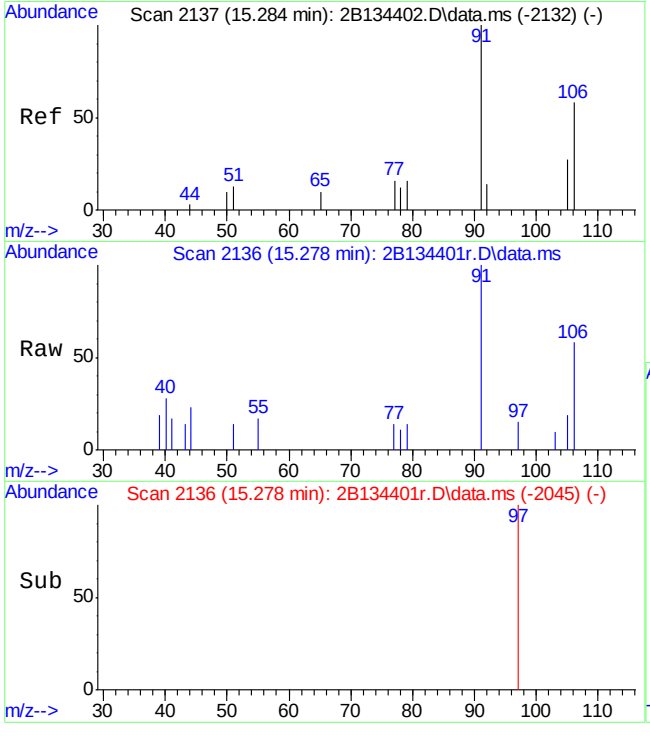


#101
m,p-xylene
Concen: 0.34 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:106 Resp: 1218

Ion	Ratio	Lower	Upper
106	100		
91	137.9	159.7	219.7#

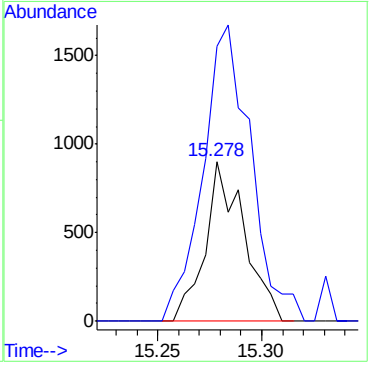


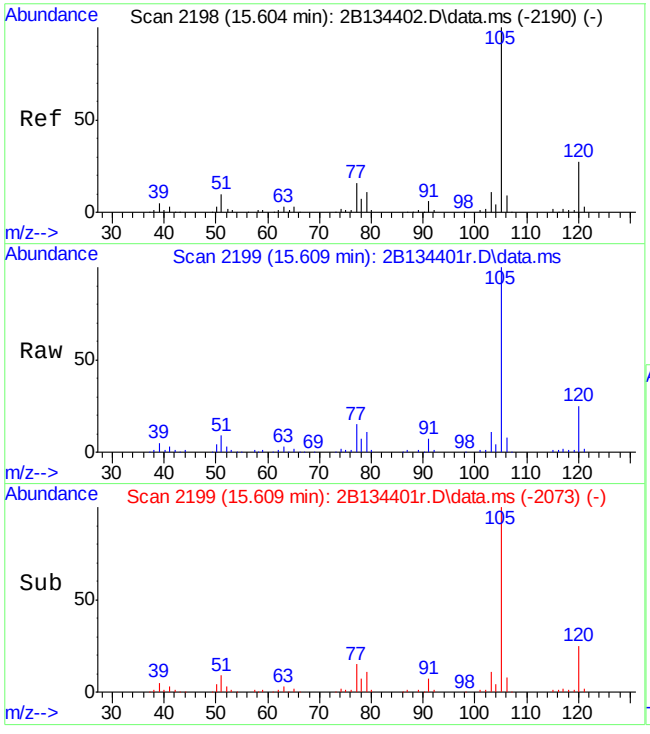


#102
o-xylene
Concen: 0.31 ug/L
RT: 15.278 min Scan# 2136
Delta R.T. -0.005 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:106 Resp: 1173

Ion	Ratio	Lower	Upper
106	100		
91	171.9	170.1	230.1

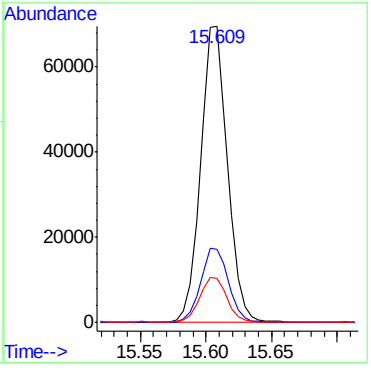


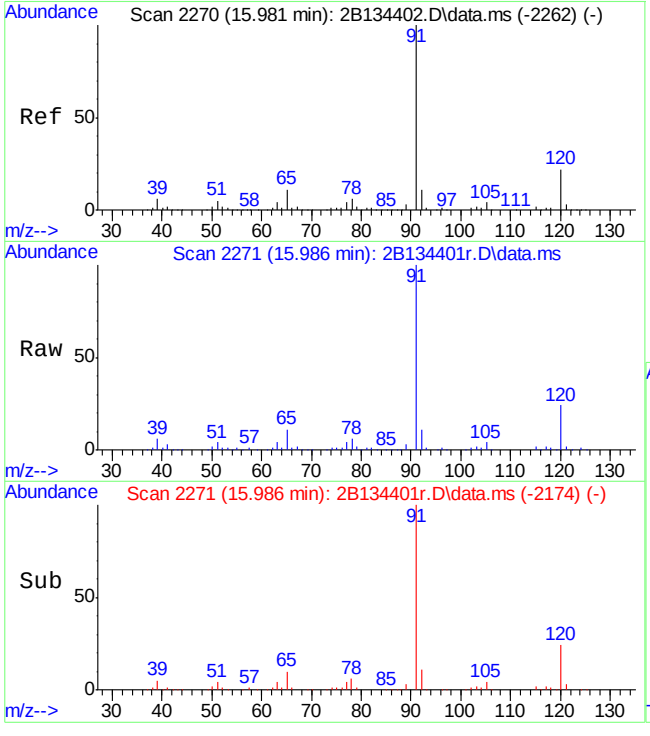


#107
isopropylbenzene
Concen: 10.51 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:105 Resp: 98646

Ion	Ratio	Lower	Upper
105	100		
120	24.7	0.0	56.6
77	14.9	0.0	43.7

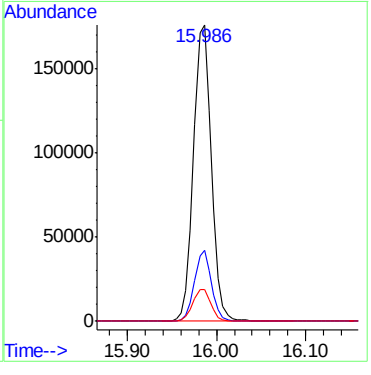


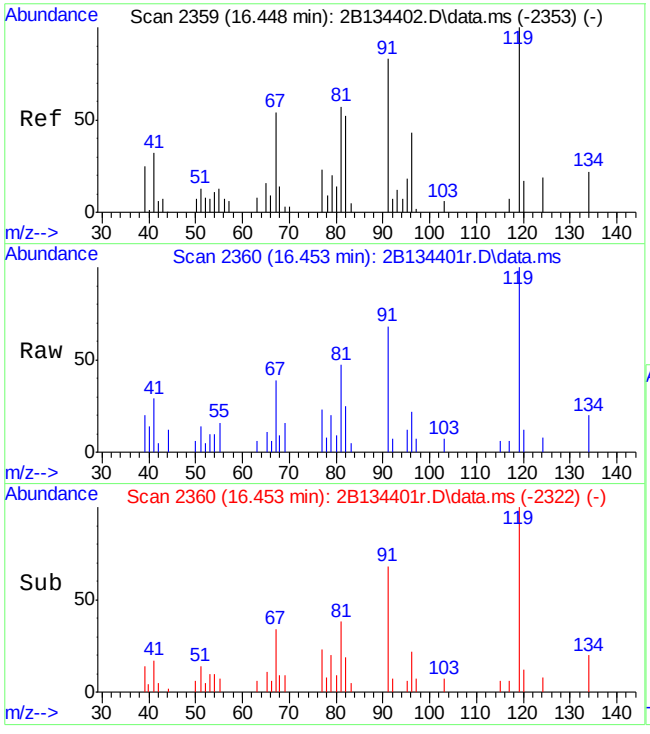


#114
n-propylbenzene
Concen: 24.35 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 91 Resp: 244081

Ion	Ratio	Lower	Upper
91	100		
120	23.7	0.0	54.2
65	10.6	0.0	39.7

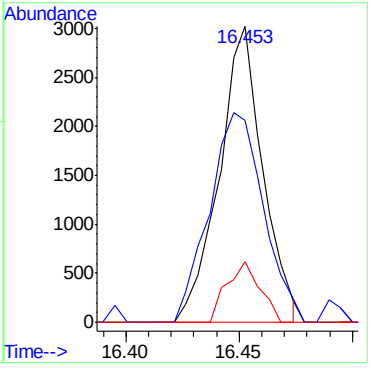


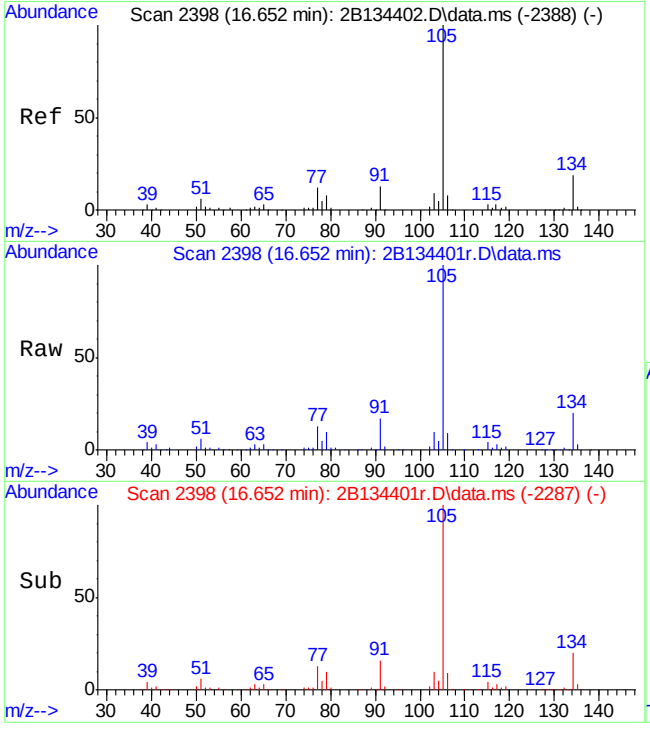


#118
tert-butylbenzene
Concen: 0.59 ug/L
RT: 16.453 min Scan# 2360
Delta R.T. 0.001 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:119 Resp: 4040

Ion	Ratio	Lower	Upper
119	100		
91	68.2	31.7	91.7
134	20.3	0.0	53.4

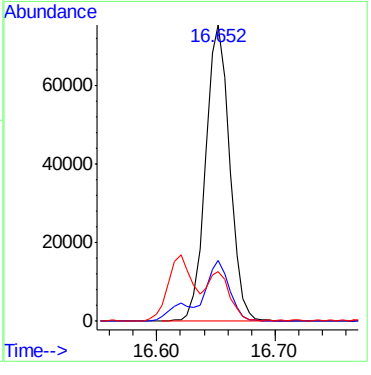


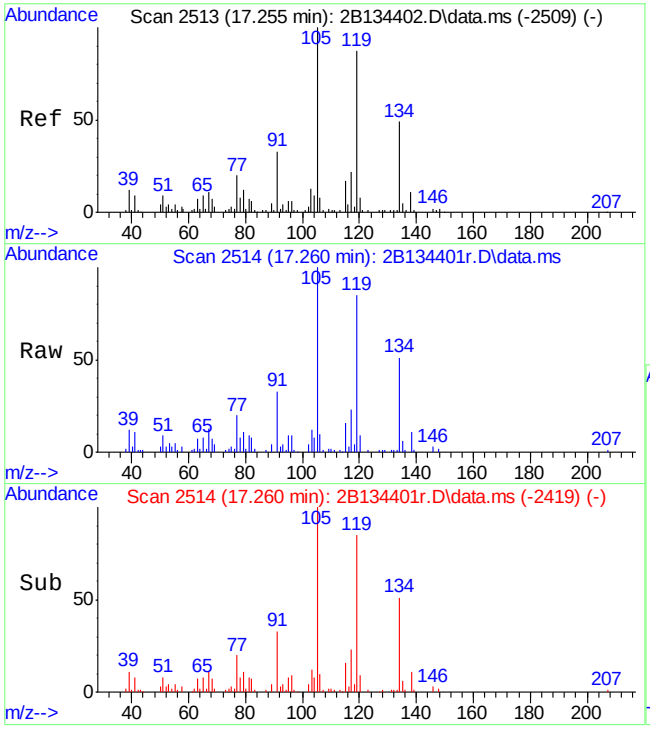


#121
sec-butylbenzene
Concen: 10.53 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:105 Resp: 106408

Ion	Ratio	Lower	Upper
105	100		
134	20.4	0.0	49.9
91	16.3	0.0	44.6

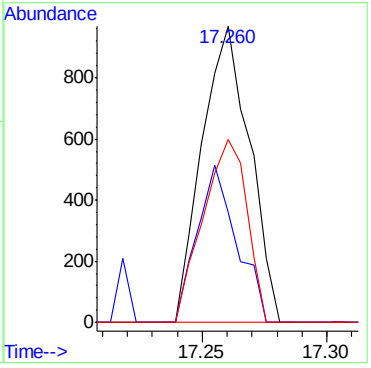


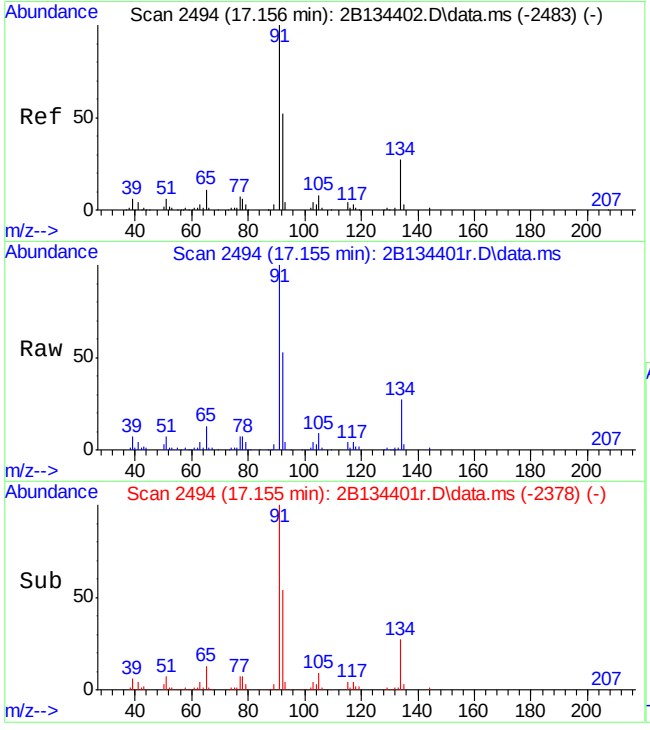


#125
1,2-dichlorobenzene
Concen: 0.26 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. -0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:146 Resp: 1293

Ion	Ratio	Lower	Upper
146	100		
111	37.0	5.0	65.0
148	61.6	37.0	97.0

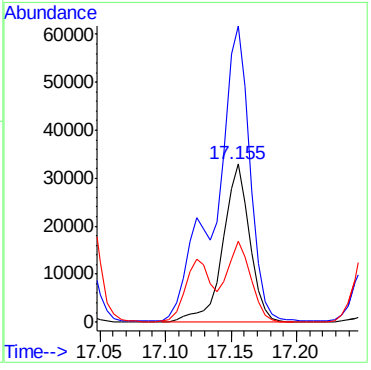


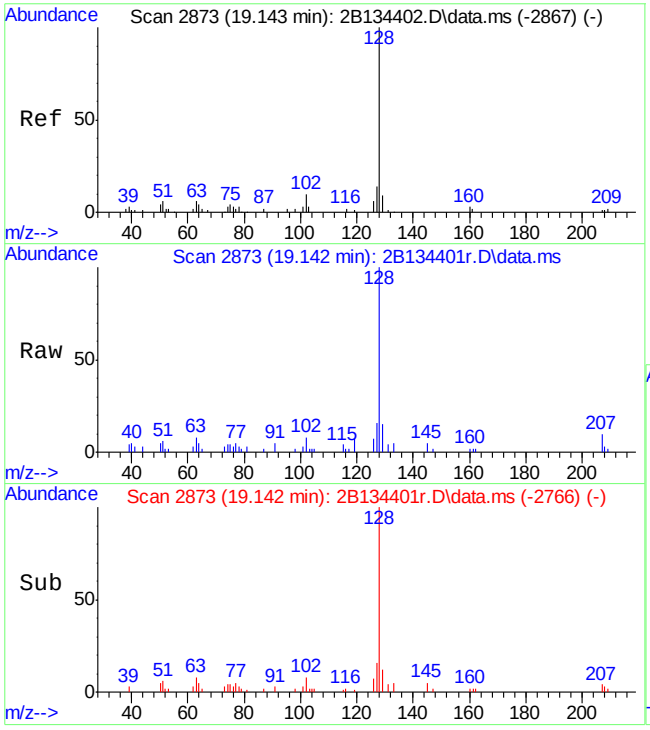


#126
n-butylbenzene
Concen: 10.88 ug/L
RT: 17.155 min Scan# 2494
Delta R.T. 0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion: 92 Resp: 46451

Ion	Ratio	Lower	Upper
92	100		
91	186.4	149.3	209.3
134	51.3	20.6	80.6

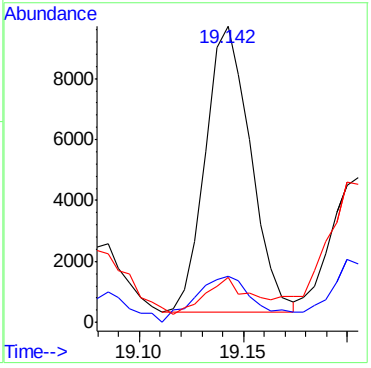




#131
naphthalene
Concen: 2.27 ug/L
RT: 19.142 min Scan# 2873
Delta R.T. 0.000 min
Lab File: 2B134401r.D
Acq: 12 Sep 2015 12:38 pm

Tgt Ion:128 Resp: 14144

Ion	Ratio	Lower	Upper
128	100		
127	16.1	0.0	42.5
129	10.7	0.0	41.0



7.1.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134402r.D
Acq On : 12 Sep 2015 1:07 pm
Operator : BridgetK
Sample : jc3254-18R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 21 11:08:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

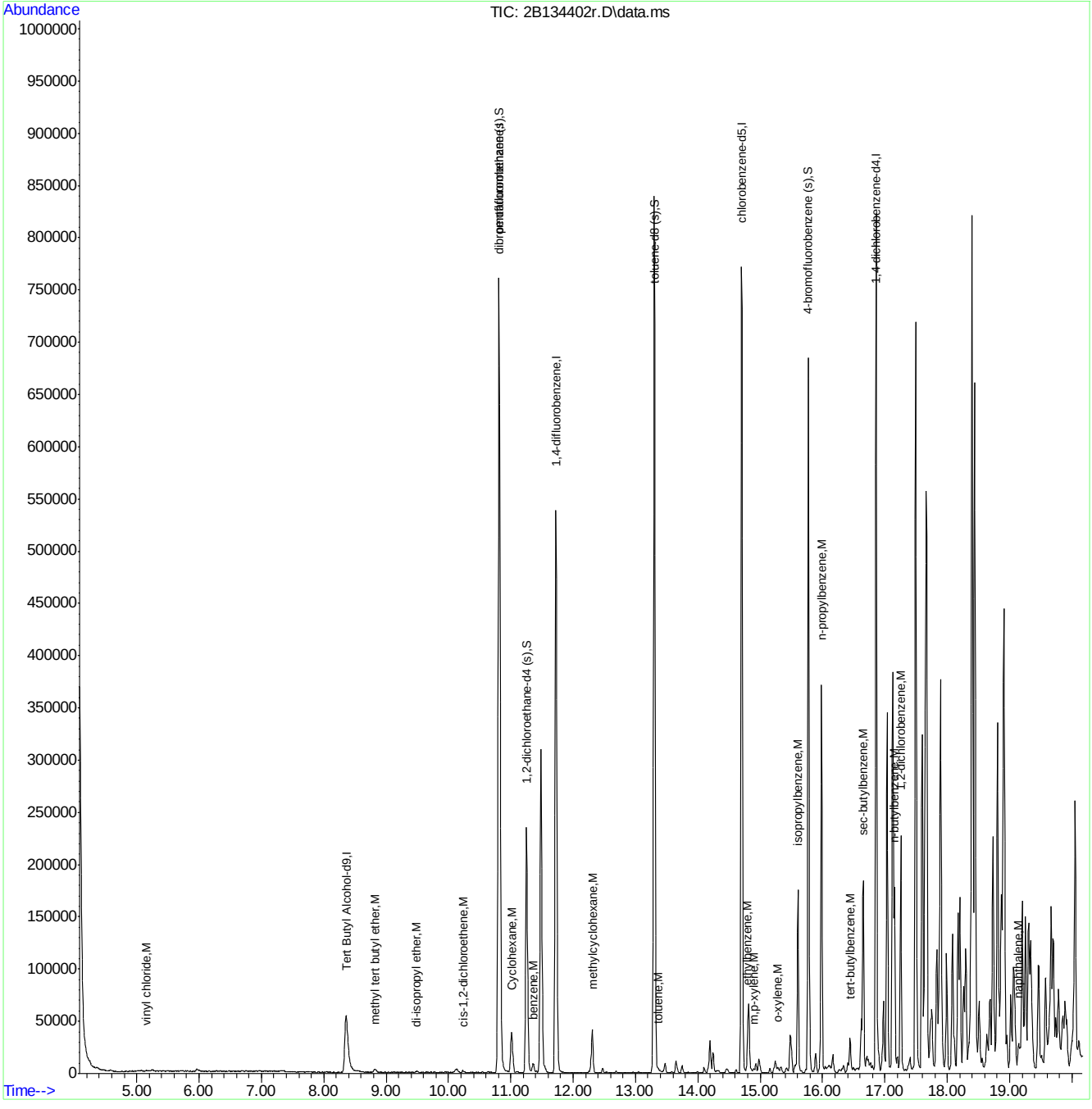
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	112524	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	467840	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	453226	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	380175	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	207246	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	161582	52.06	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.12%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	180854	56.62	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.24%			
82) toluene-d8 (s)	13.302	98	510791	52.92	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.84%			
108) 4-bromofluorobenzene (s)	15.771	95	177076	50.91	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 101.82%			
Target Compounds						Qvalue
13) vinyl chloride	5.160	62	1462	0.43	ug/L	95
34) methyl tert butyl ether	8.824	73	3484	0.56	ug/L	92
36) di-isopropyl ether	9.485	45	1330	0.18	ug/L	69
45) cis-1,2-dichloroethene	10.235	96	1105	0.39	ug/L	81
56) Cyclohexane	11.021	84	16612	4.90	ug/L #	35
66) benzene	11.357	78	8123	0.98	ug/L	96
79) methylcyclohexane	12.311	83	14609	4.38	ug/L	96
84) toluene	13.365	92	922	0.17	ug/L	81
100) ethylbenzene	14.796	91	21025	2.31	ug/L	94
101) m,p-xylene	14.901	106	1266	0.35	ug/L	92
102) o-xylene	15.284	106	1165	0.31	ug/L	81
107) isopropylbenzene	15.604	105	101632	10.84	ug/L	98
114) n-propylbenzene	15.981	91	245638	24.54	ug/L	96
118) tert-butylbenzene	16.448	119	4076	0.60	ug/L	79
121) sec-butylbenzene	16.652	105	108592	10.76	ug/L	98
125) 1,2-dichlorobenzene	17.255	146	1252	0.25	ug/L	90
126) n-butylbenzene	17.156	92	45714	10.72	ug/L	92
131) naphthalene	19.143	128	13834	2.22	ug/L	94

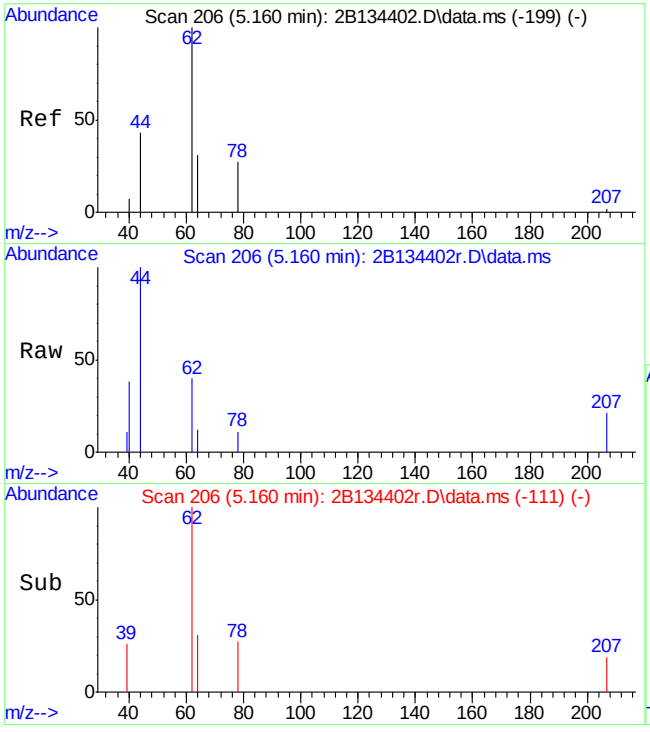
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134402r.D
Acq On : 12 Sep 2015 1:07 pm
Operator : BridgetK
Sample : jc3254-18R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 21 11:08:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

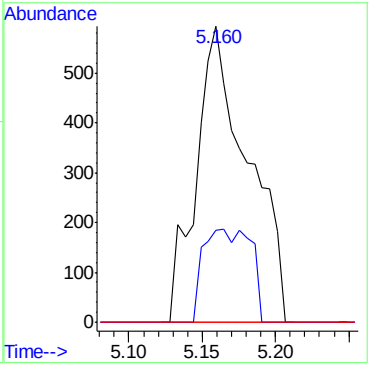


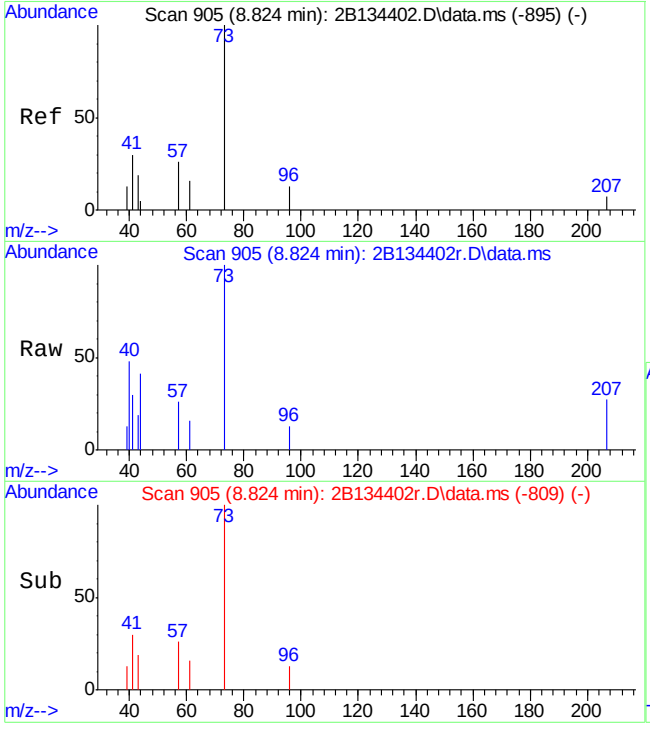


#13
vinyl chloride
Concen: 0.43 ug/L
RT: 5.160 min Scan# 206
Delta R.T. 0.001 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 62 Resp: 1462

Ion	Ratio	Lower	Upper
62	100		
64	31.0	0.6	60.6
61	0.0	0.0	38.1

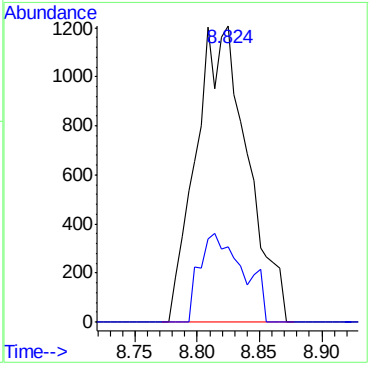


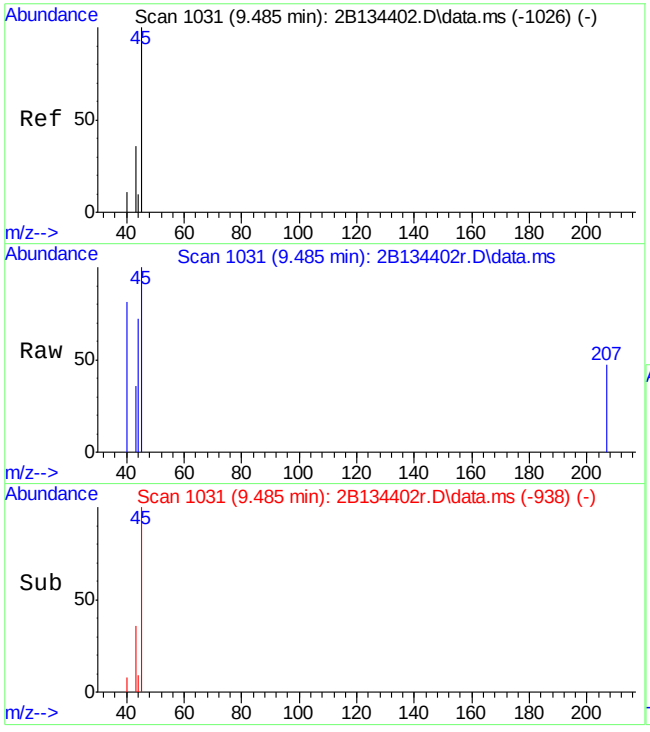


#34
methyl tert butyl ether
Concen: 0.56 ug/L
RT: 8.824 min Scan# 905
Delta R.T. 0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 73 Resp: 3484

Ion	Ratio	Lower	Upper
73	100		
57	25.6	0.0	52.0

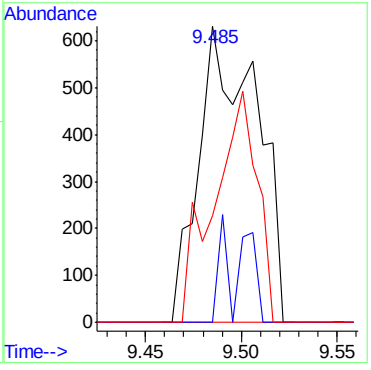


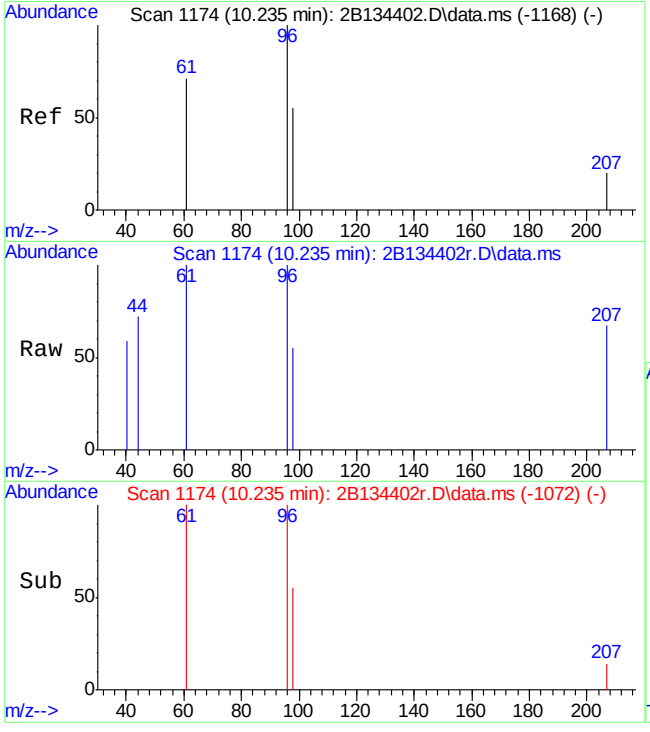


#36
di-isopropyl ether
Concen: 0.18 ug/L
RT: 9.485 min Scan# 1031
Delta R.T. -0.010 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 45 Resp: 1330

Ion	Ratio	Lower	Upper
45	100		
87	0.0	0.0	55.3
43	36.1	21.6	81.6

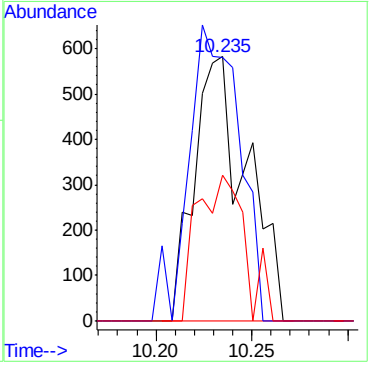


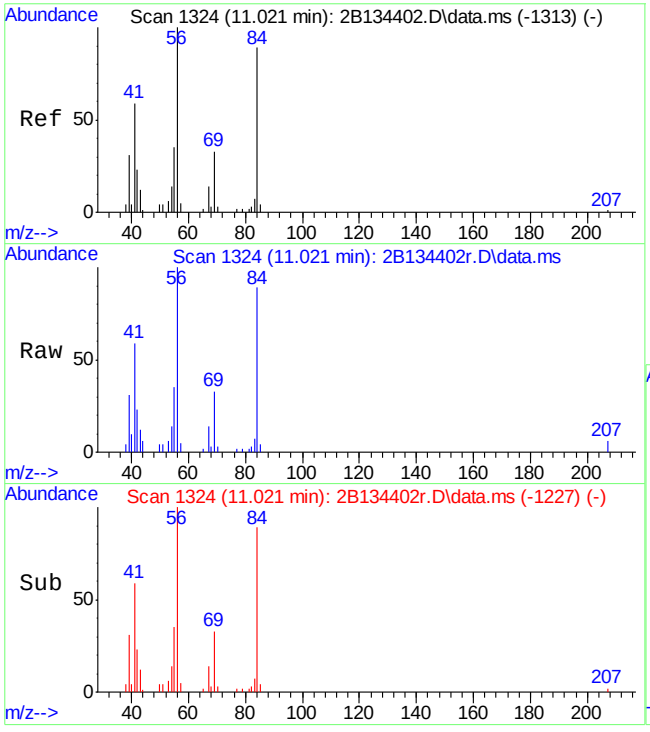


#45
cis-1,2-dichloroethene
Concen: 0.39 ug/L
RT: 10.235 min Scan# 1174
Delta R.T. 0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 96 Resp: 1105

Ion	Ratio	Lower	Upper
96	100		
61	99.7	96.0	156.0
98	55.3	32.9	92.9

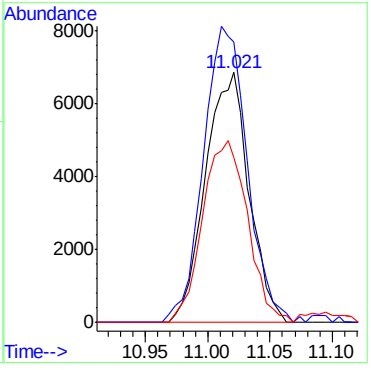


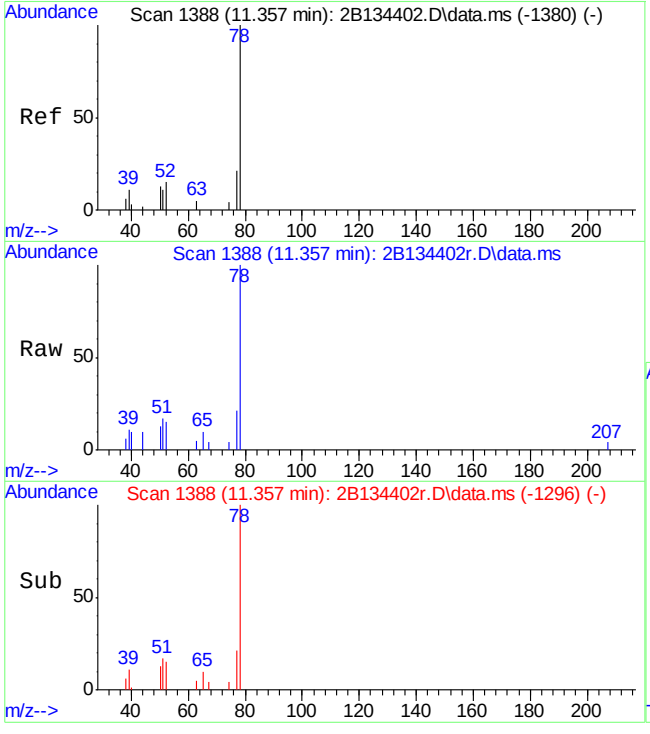


#56
Cyclohexane
Concen: 4.90 ug/L
RT: 11.021 min Scan# 1324
Delta R.T. 0.006 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 84 Resp: 16612

Ion	Ratio	Lower	Upper
84	100		
56	112.5	195.8	255.8#
41	66.1	102.7	162.7#

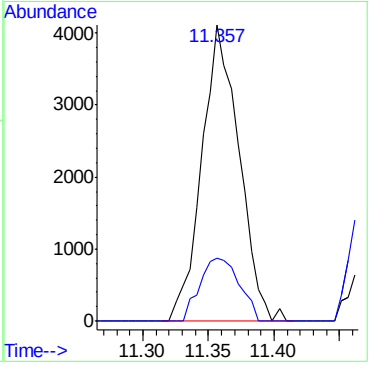


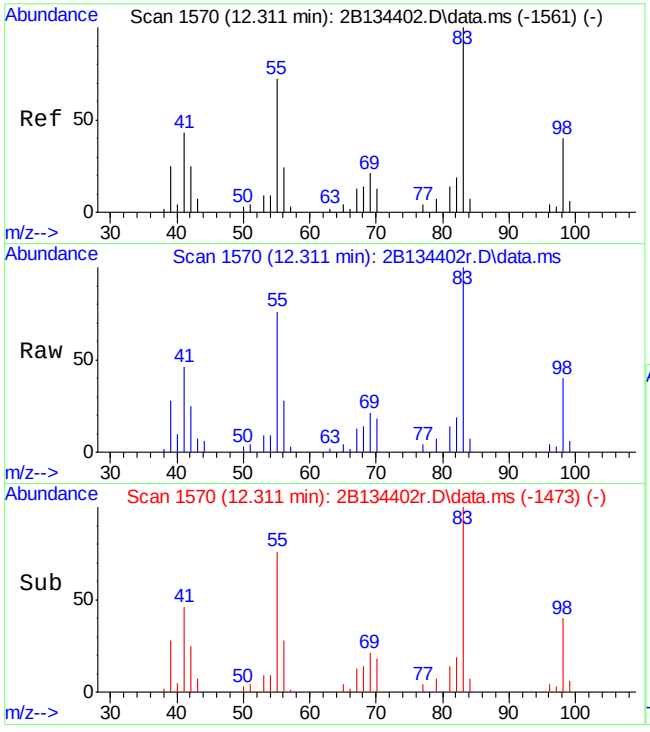


#66
benzene
Concen: 0.98 ug/L
RT: 11.357 min Scan# 1388
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 78 Resp: 8123

Ion	Ratio	Lower	Upper
78	100		
77	21.3	0.0	53.4

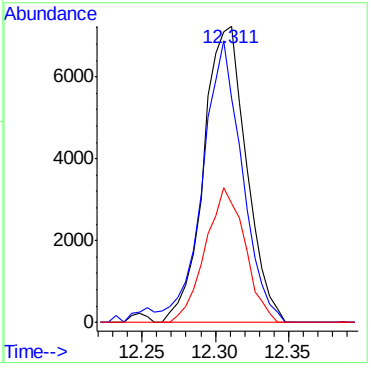


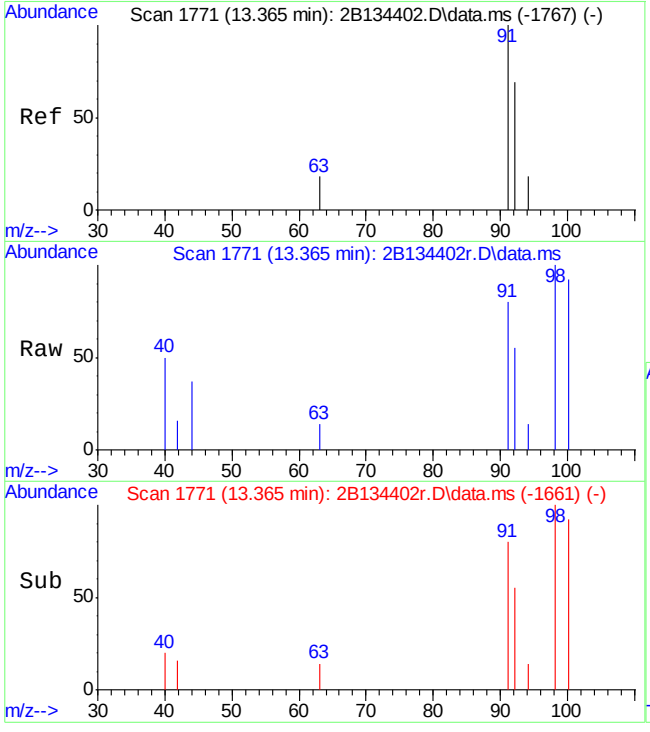


#79
methylcyclohexane
Concen: 4.38 ug/L
RT: 12.311 min Scan# 1570
Delta R.T. 0.006 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 83 Resp: 14609

Ion	Ratio	Lower	Upper
83	100		
55	75.8	47.5	107.5
98	40.4	14.4	74.4

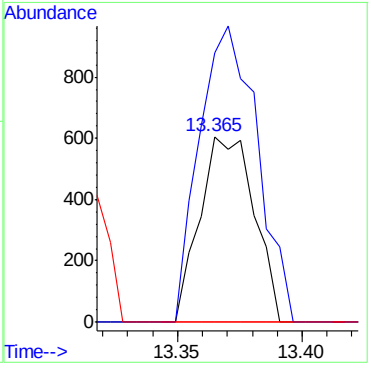


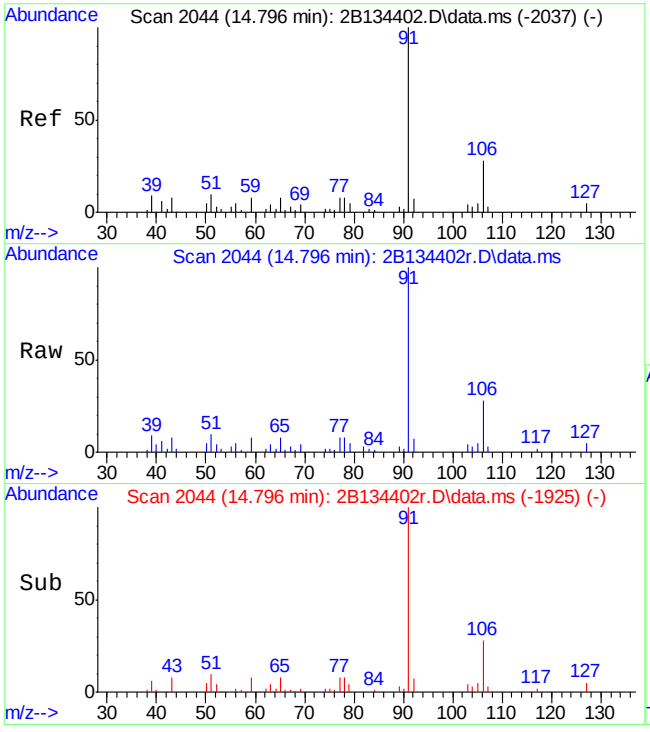


#84
toluene
Concen: 0.17 ug/L
RT: 13.365 min Scan# 1771
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 92 Resp: 922

Ion	Ratio	Lower	Upper
92	100		
91	145.0	137.1	197.1
65	0.0	0.0	48.1

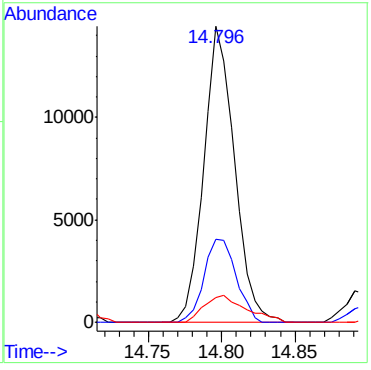


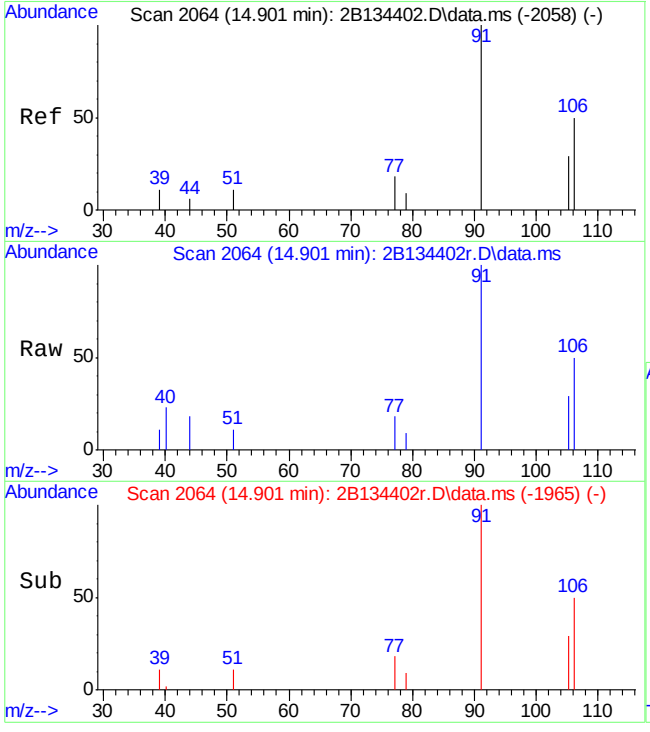


#100
ethylbenzene
Concen: 2.31 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 91 Resp: 21025

Ion	Ratio	Lower	Upper
91	100		
106	28.2	2.4	62.4
65	8.4	0.0	38.1

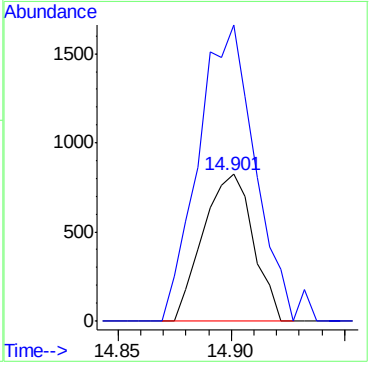


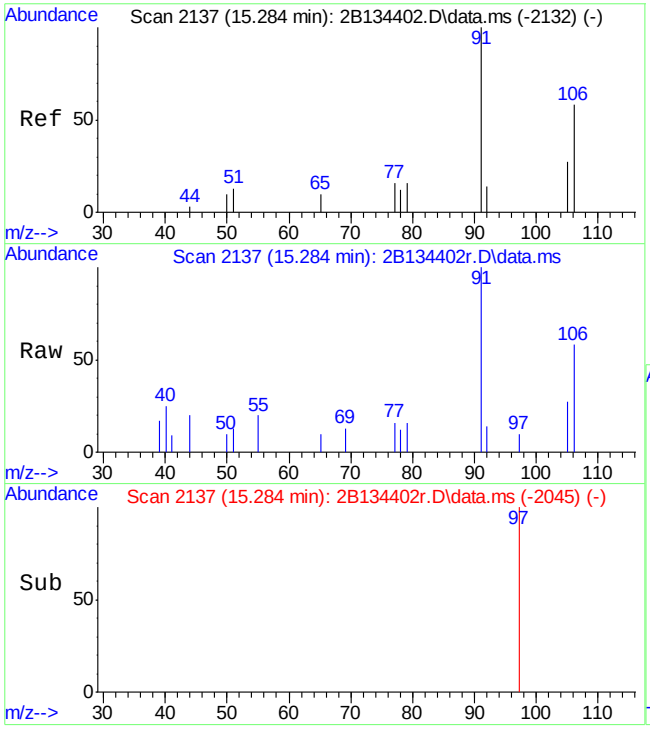


#101
m,p-xylene
Concen: 0.35 ug/L
RT: 14.901 min Scan# 2064
Delta R.T. 0.000 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:106 Resp: 1266

Ion	Ratio	Lower	Upper
106	100		
91	201.6	159.7	219.7

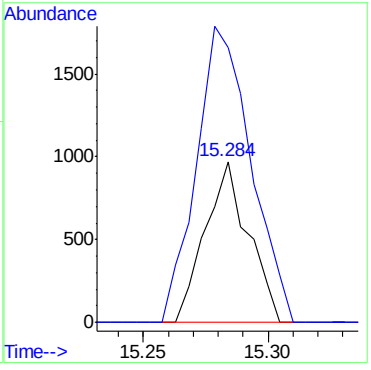


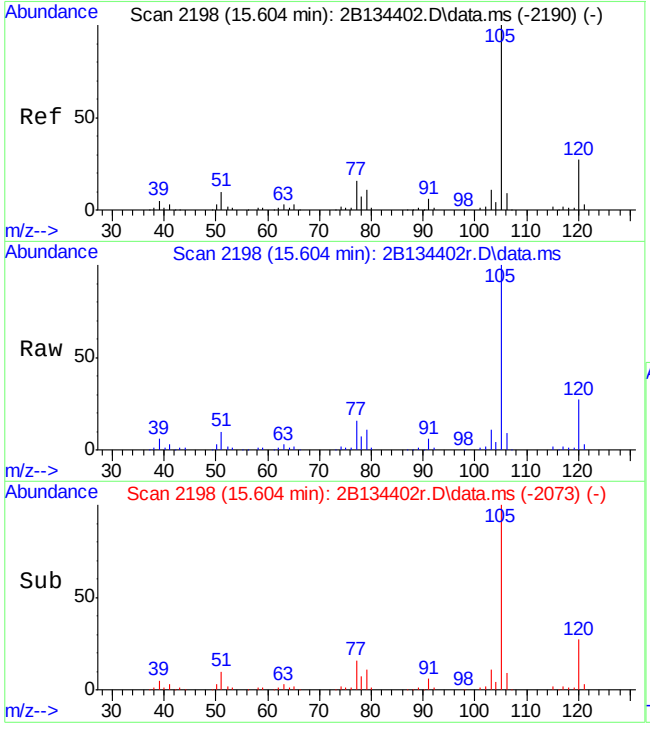


#102
o-xylene
Concen: 0.31 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:106 Resp: 1165

Ion	Ratio	Lower	Upper
106	100		
91	171.1	170.1	230.1

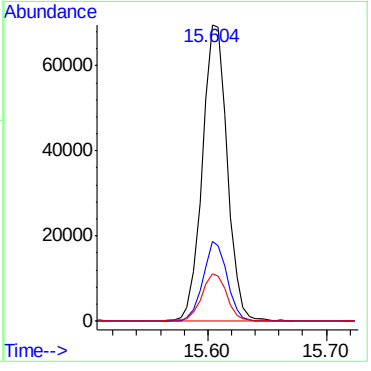


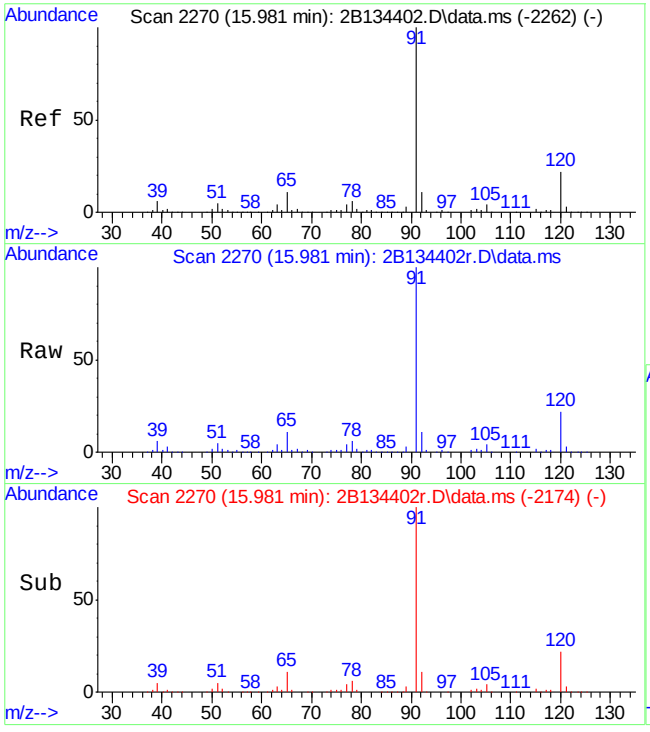


#107
isopropylbenzene
Concen: 10.84 ug/L
RT: 15.604 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:105 Resp: 101632

Ion	Ratio	Lower	Upper
105	100		
120	27.0	0.0	56.6
77	16.1	0.0	43.7

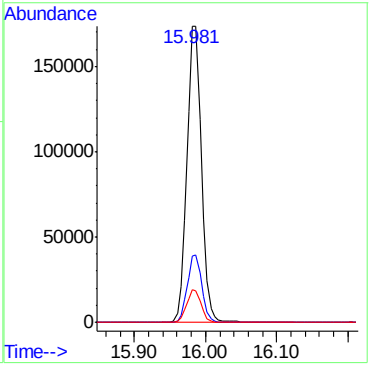


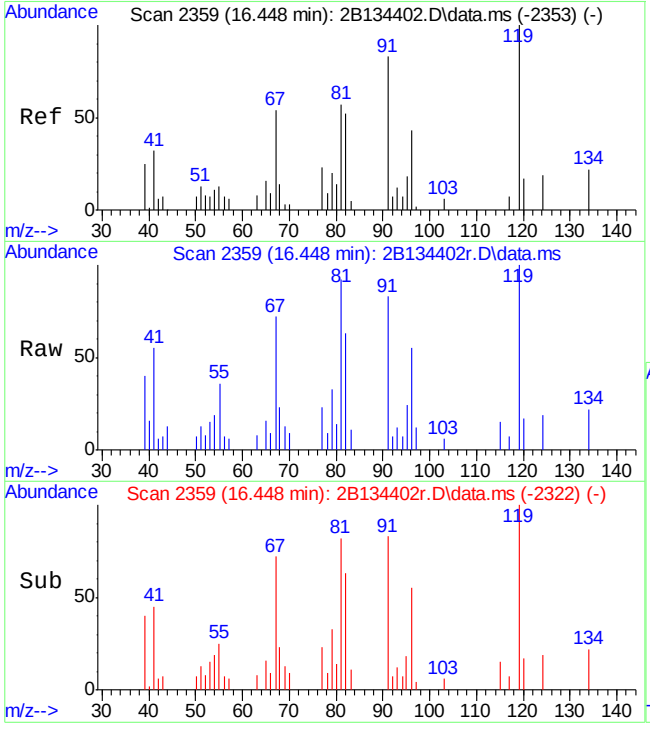


#114
n-propylbenzene
Concen: 24.54 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 91 Resp: 245638

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	54.2
65	10.9	0.0	39.7

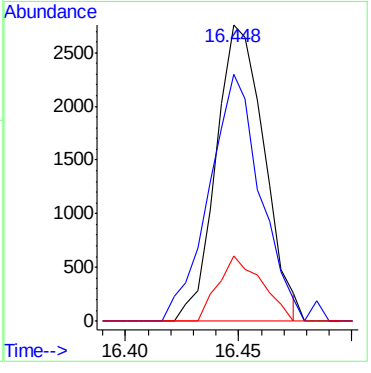


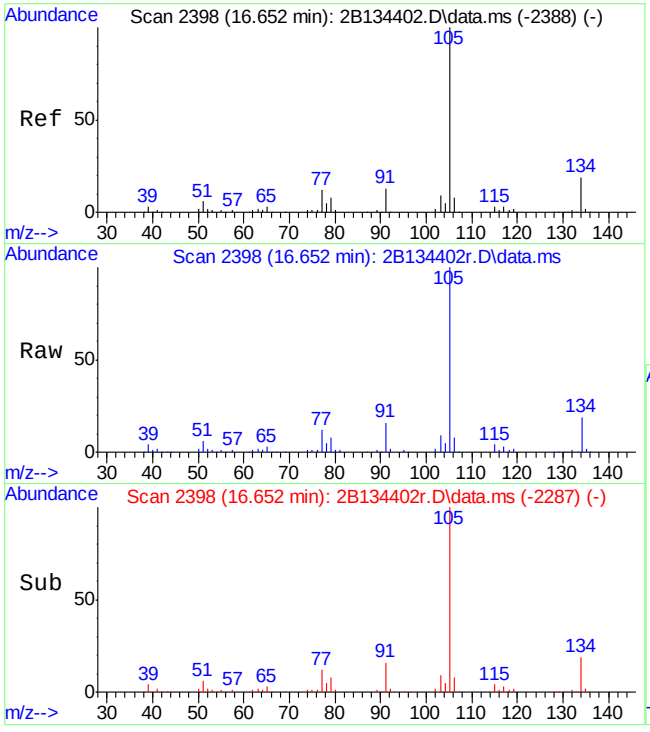


#118
tert-butylbenzene
Concen: 0.60 ug/L
RT: 16.448 min Scan# 2359
Delta R.T. -0.004 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:119 Resp: 4076

Ion	Ratio	Lower	Upper
119	100		
91	83.4	31.7	91.7
134	22.2	0.0	53.4

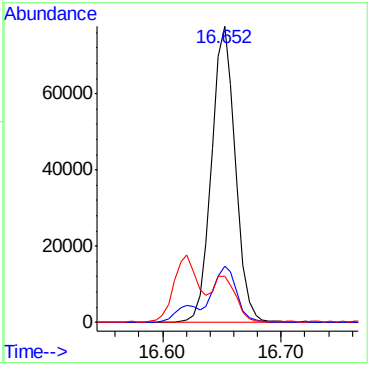


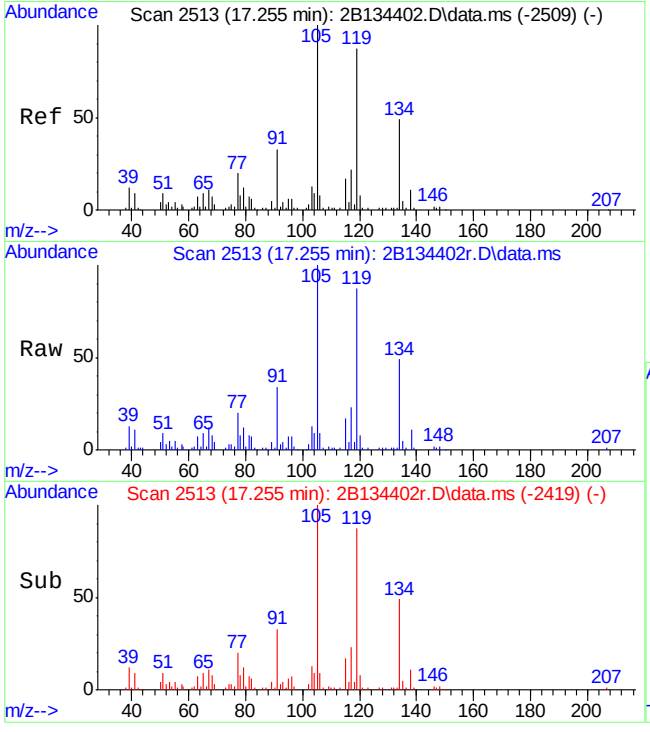


#121
sec-butylbenzene
Concen: 10.76 ug/L
RT: 16.652 min Scan# 2398
Delta R.T. 0.000 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:105 Resp: 108592

Ion	Ratio	Lower	Upper
105	100		
134	18.9	0.0	49.9
91	15.5	0.0	44.6

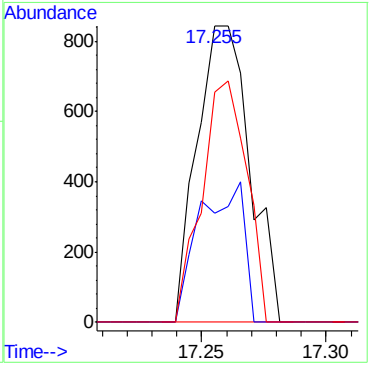


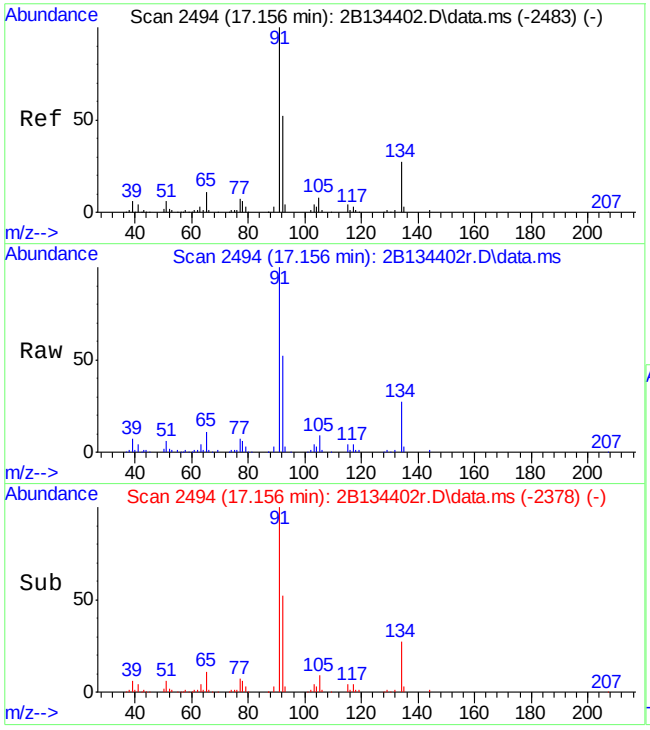


#125
1,2-dichlorobenzene
Concen: 0.25 ug/L
RT: 17.255 min Scan# 2513
Delta R.T. -0.005 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:146 Resp: 1252

Ion	Ratio	Lower	Upper
146	100		
111	37.0	5.0	65.0
148	77.6	37.0	97.0

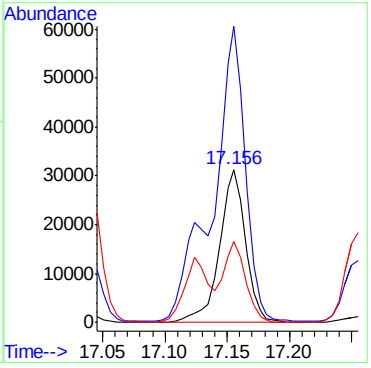


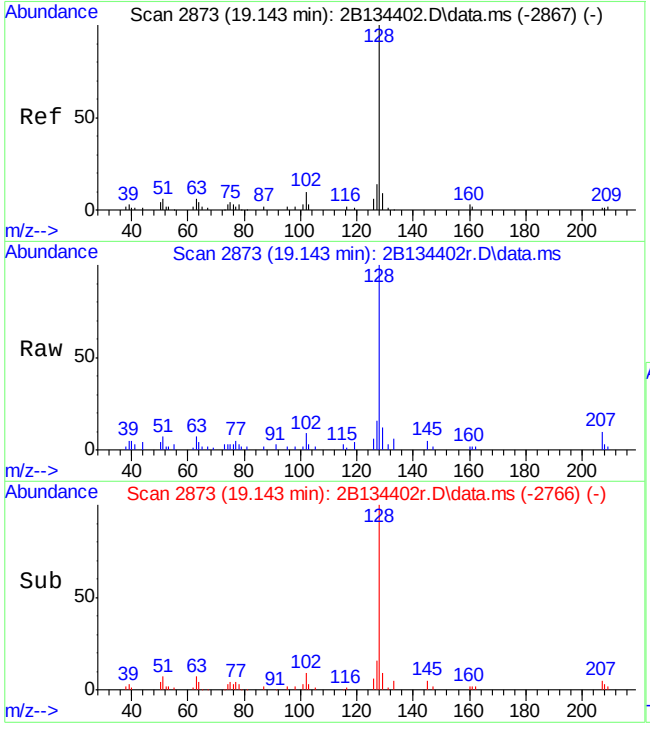


#126
n-butylbenzene
Concen: 10.72 ug/L
RT: 17.156 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion: 92 Resp: 45714

Ion	Ratio	Lower	Upper
92	100		
91	193.2	149.3	209.3
134	53.1	20.6	80.6

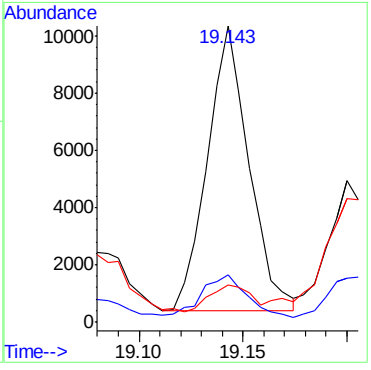




#131
naphthalene
Concen: 2.22 ug/L
RT: 19.143 min Scan# 2873
Delta R.T. 0.001 min
Lab File: 2B134402r.D
Acq: 12 Sep 2015 1:07 pm

Tgt Ion:128 Resp: 13834

Ion	Ratio	Lower	Upper
128	100		
127	15.0	0.0	42.5
129	8.6	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134403r.D
Acq On : 12 Sep 2015 1:35 pm
Operator : BridgetK
Sample : jc3254-19R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 21 11:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

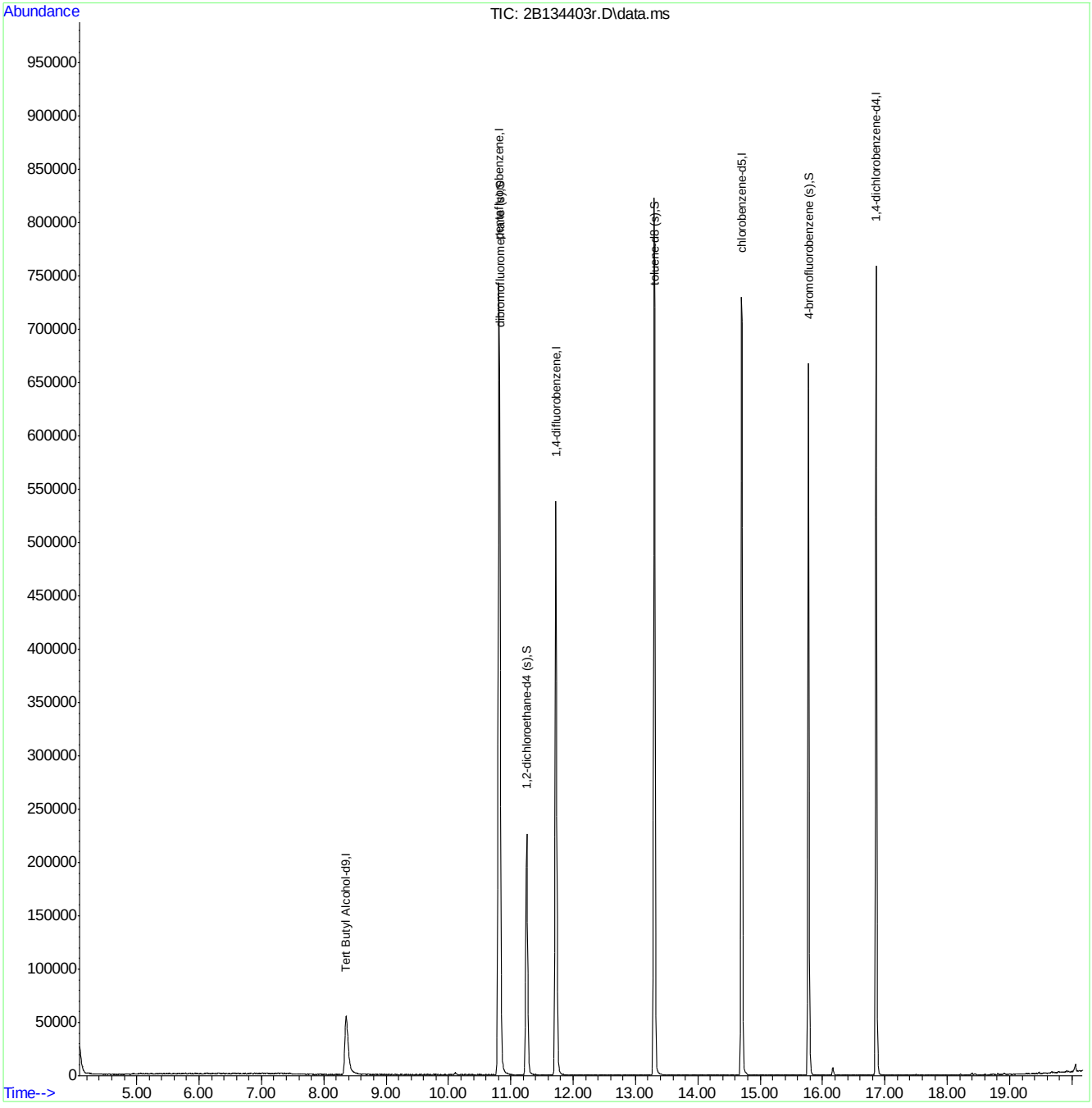
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	113488	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	472941	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	450796	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	368423	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	194135	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	159698	50.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.80%			
52) 1,2-dichloroethane-d4 (s)	11.257	65	177409	54.95	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.90%			
82) toluene-d8 (s)	13.302	98	495244	51.59	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.18%			
108) 4-bromofluorobenzene (s)	15.777	95	169162	51.91	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.82%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134403r.D
Acq On : 12 Sep 2015 1:35 pm
Operator : BridgetK
Sample : jc3254-19R
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 21 11:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Mon Dec 21 12:24:20 2015 ACC-VOA-CLN-05A Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134480r.D
Acq On : 15 Sep 2015 2:47 pm
Operator : BridgetK
Sample : jc3254-20R
Misc : ms90889,v2B5992,w,,,,25
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 21 15:01:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

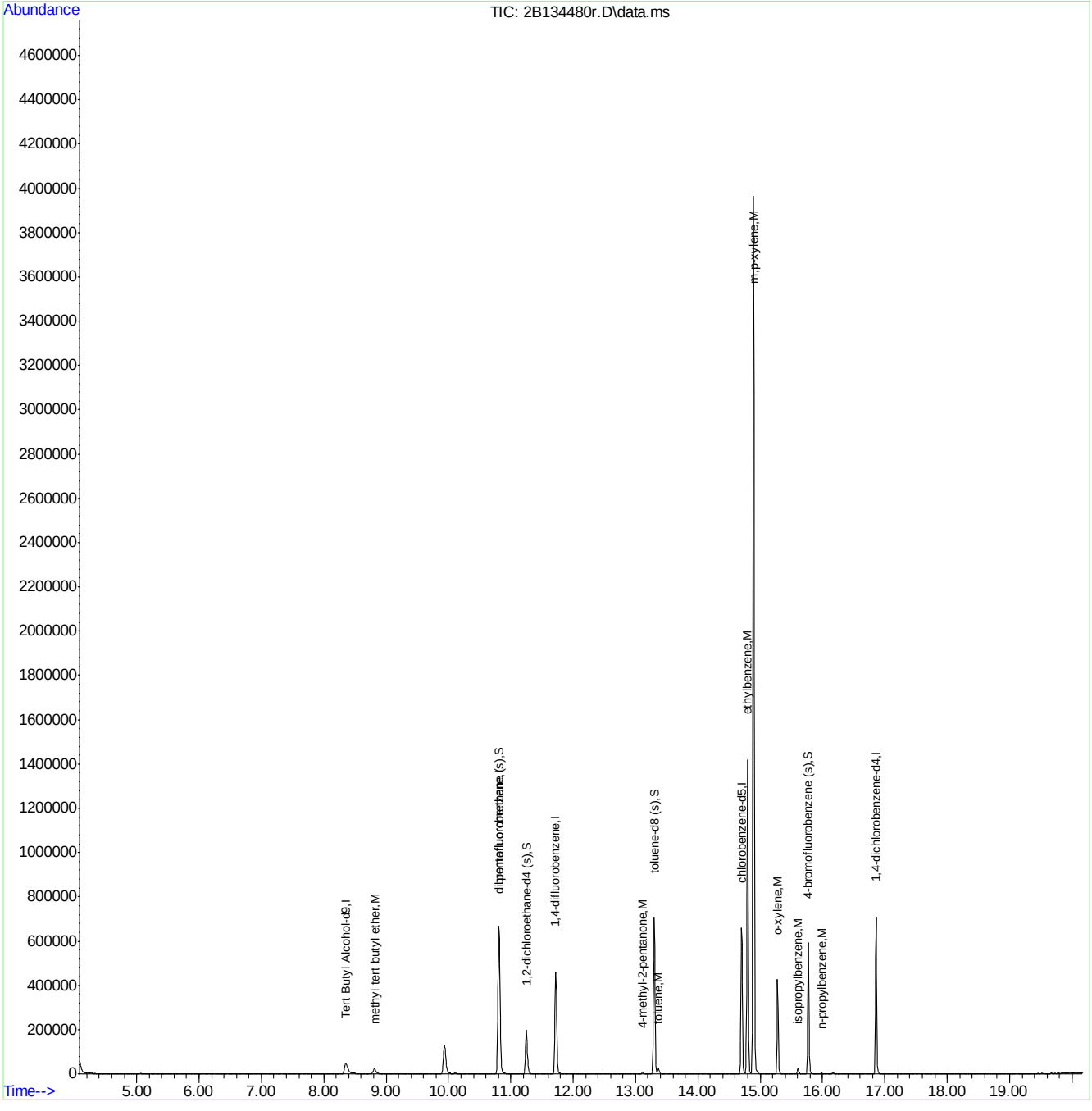
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.352	65	99260	500.00	ug/L	-0.02
5) pentafluorobenzene	10.811	168	416443	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.718	114	390017	50.00	ug/L	-0.01
90) chlorobenzene-d5	14.702	117	326622	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	173619	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.816	113	140809	50.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.94%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	158248	55.66	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.32%			
82) toluene-d8 (s)	13.302	98	440355	53.02	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.04%			
108) 4-bromofluorobenzene (s)	15.771	95	152295	52.26	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.52%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.819	73	33973	6.12	ug/L	91
83) 4-methyl-2-pentanone	13.113	58	1948	3.41	ug/L #	69
84) toluene	13.370	92	8957	1.96	ug/L	95
100) ethylbenzene	14.796	91	883112	112.95	ug/L	98
101) m,p-xylene	14.896	106	1080284	348.39	ug/L	96
102) o-xylene	15.278	106	101721	31.17	ug/L	89
107) isopropylbenzene	15.609	105	14565	1.85	ug/L	95
114) n-propylbenzene	15.981	91	3618	0.43	ug/L	91

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

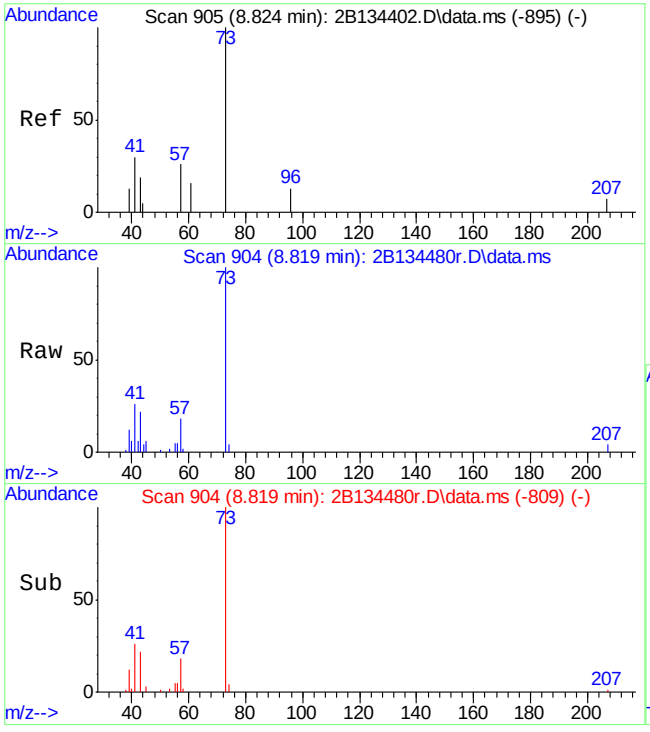
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134480r.D
Acq On : 15 Sep 2015 2:47 pm
Operator : BridgetK
Sample : jc3254-20R
Misc : ms90889,v2B5992,w,,,,25
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 21 15:01:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



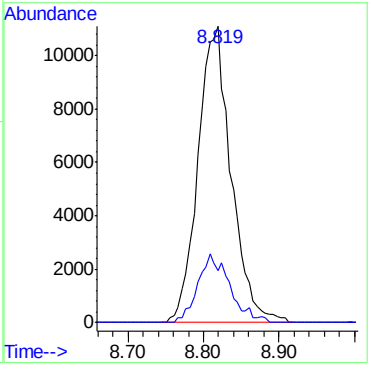
M2B5926.M Mon Dec 21 15:05:31 2015 ACC-VOA-CLN-05A Page: 2

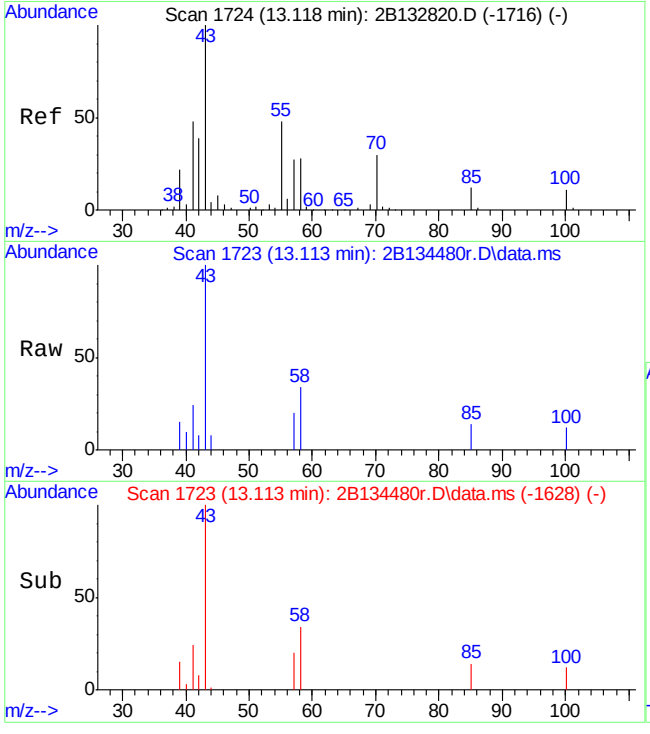


#34
methyl tert butyl ether
Concen: 6.12 ug/L
RT: 8.819 min Scan# 904
Delta R.T. -0.000 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion: 73 Resp: 33973

Ion	Ratio	Lower	Upper
73	100		
57	17.6	0.0	52.0

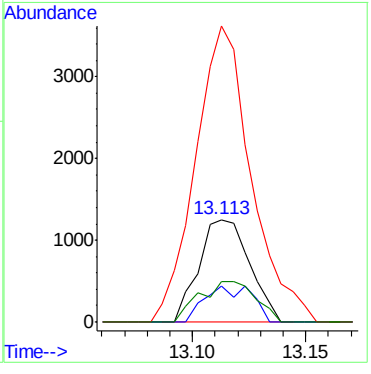


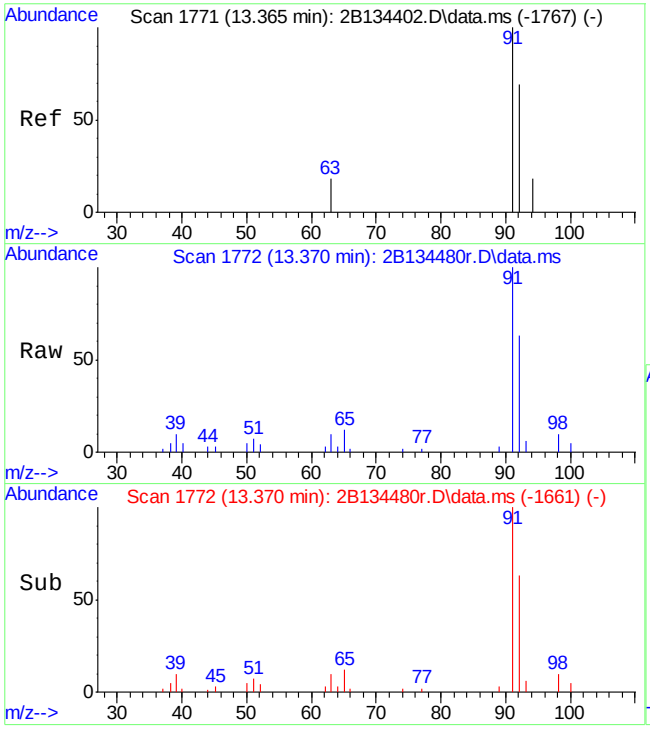


#83
4-methyl-2-pentanone
Concen: 3.41 ug/L
RT: 13.113 min Scan# 1723
Delta R.T. -0.000 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion: 58 Resp: 1948

Ion	Ratio	Lower	Upper
58	100		
100	35.7	2.5	62.5
43	271.8	321.3	381.3#
85	39.7	10.4	70.4

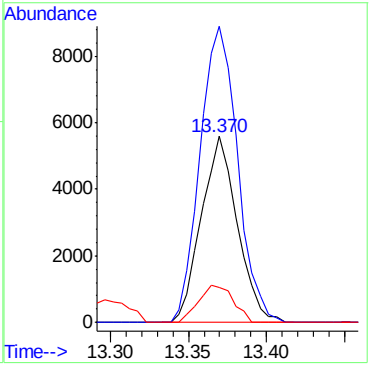


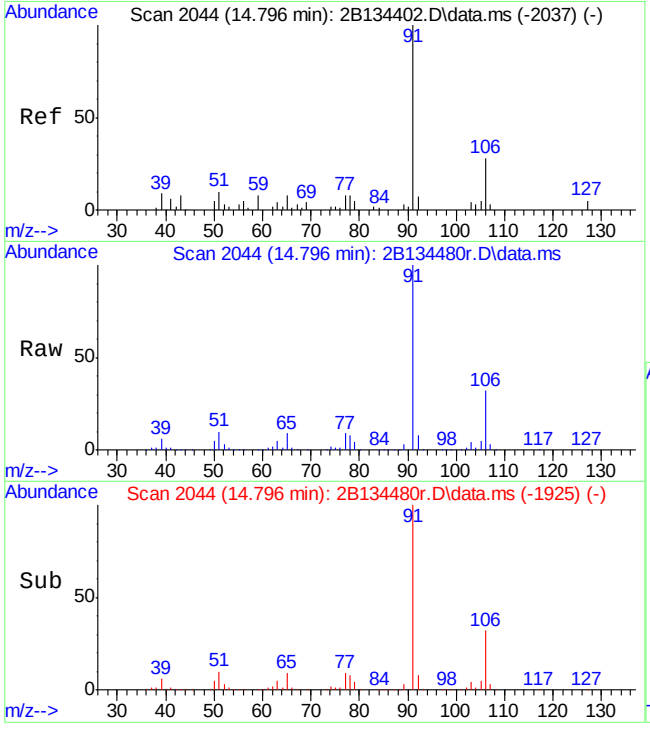


#84
toluene
Concen: 1.96 ug/L
RT: 13.370 min Scan# 1772
Delta R.T. -0.000 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion: 92 Resp: 8957

Ion	Ratio	Lower	Upper
92	100		
91	159.1	137.1	197.1
65	18.5	0.0	48.1

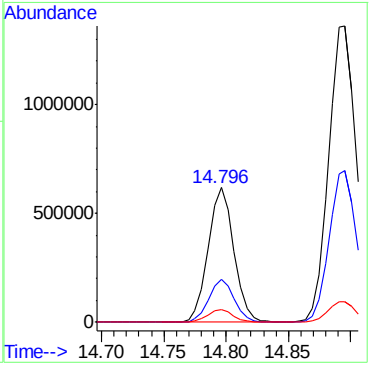


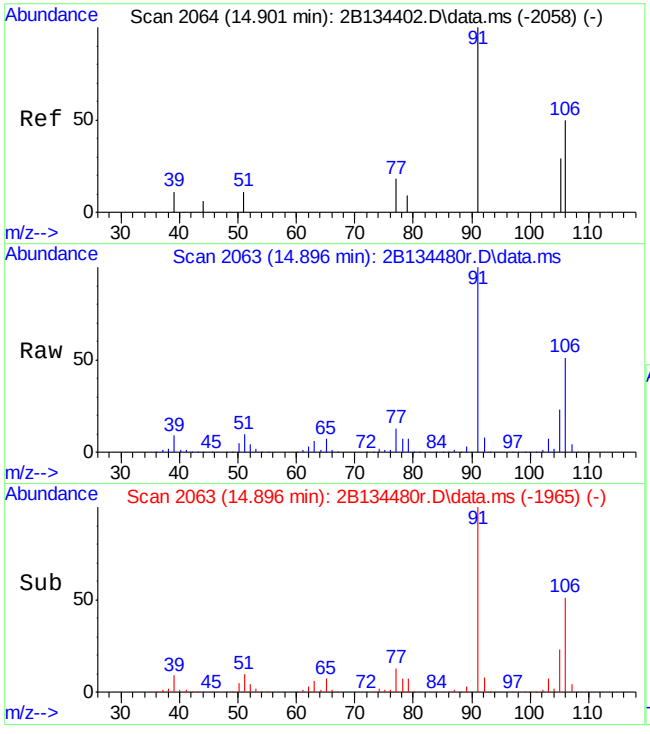


#100
ethylbenzene
Concen: 112.95 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion: 91 Resp: 883112

Ion	Ratio	Lower	Upper
91	100		
106	31.6	2.4	62.4
65	8.9	0.0	38.1

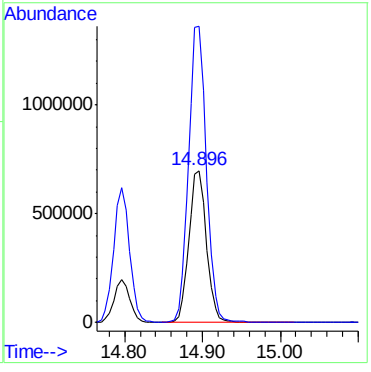


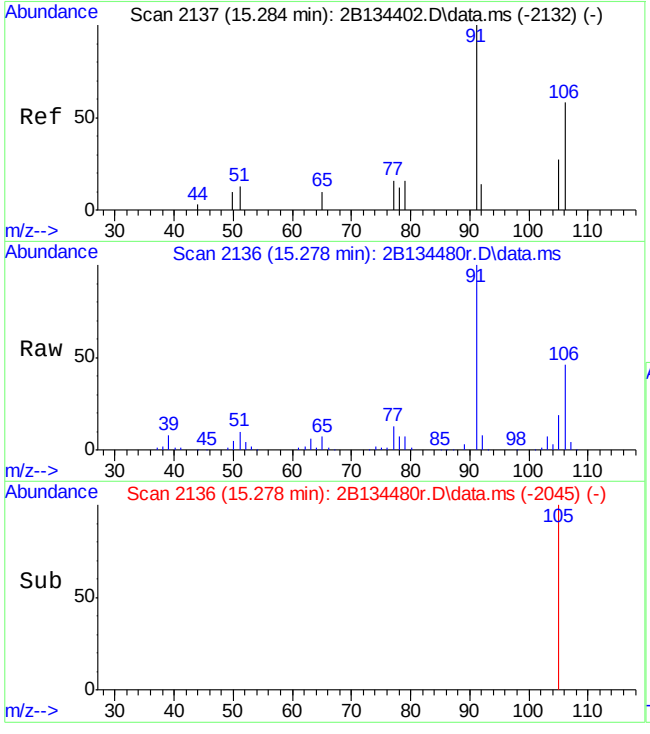


#101
m,p-xylene
Concen: 348.39 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion:106 Resp: 1080284

Ion	Ratio	Lower	Upper
106	100		
91	195.1	159.7	219.7

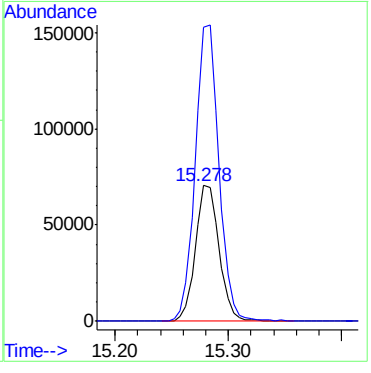


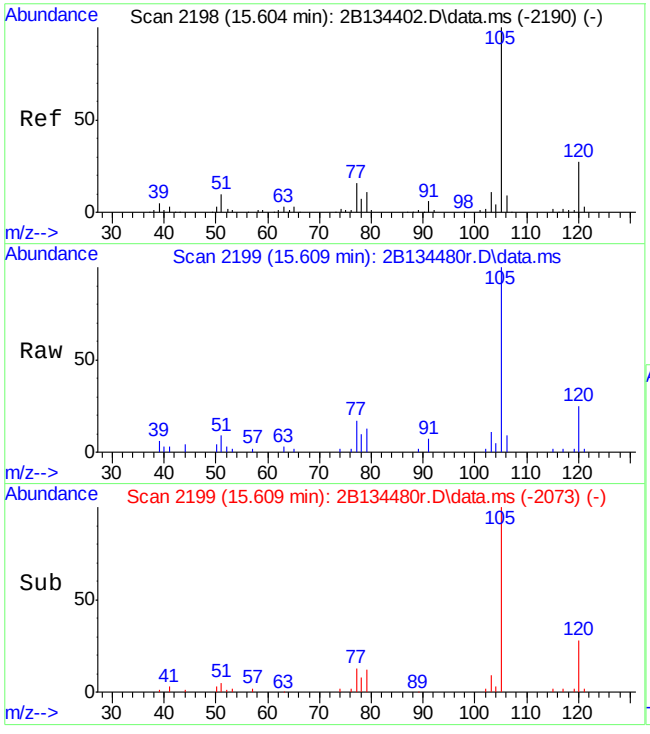


#102
o-xylene
Concen: 31.17 ug/L
RT: 15.278 min Scan# 2136
Delta R.T. -0.005 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion:106 Resp: 101721

Ion	Ratio	Lower	Upper
106	100		
91	216.3	170.1	230.1

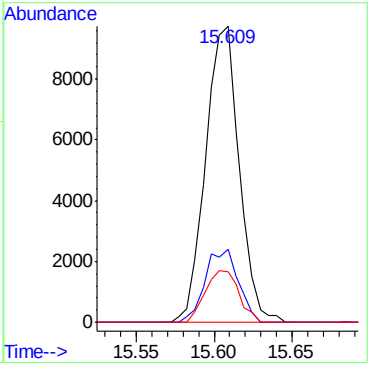


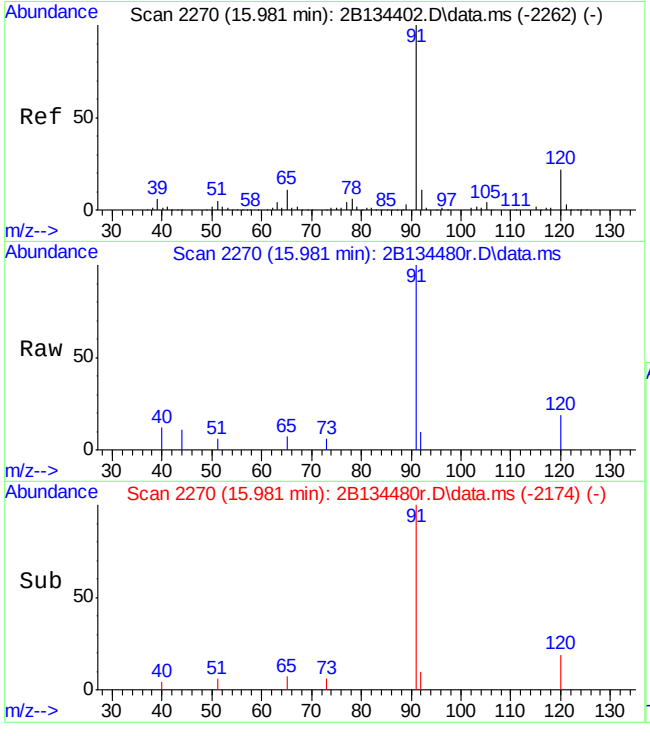


#107
isopropylbenzene
Concen: 1.85 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion:105 Resp: 14565

Ion	Ratio	Lower	Upper
105	100		
120	24.8	0.0	56.6
77	16.9	0.0	43.7

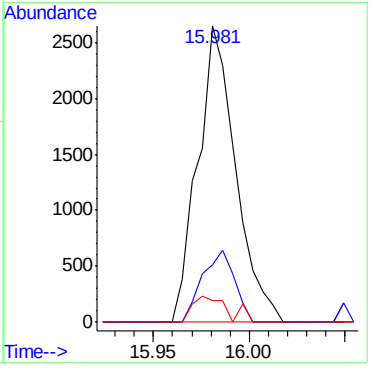




#114
n-propylbenzene
Concen: 0.43 ug/L
RT: 15.981 min Scan# 2270
Delta R.T. -0.005 min
Lab File: 2B134480r.D
Acq: 15 Sep 2015 2:47 pm

Tgt Ion: 91 Resp: 3618

Ion	Ratio	Lower	Upper
91	100		
120	19.2	0.0	54.2
65	7.3	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134390r.D
Acq On : 12 Sep 2015 6:32 am
Operator : BridgetK
Sample : jc3254-21R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 19 18:34:21 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

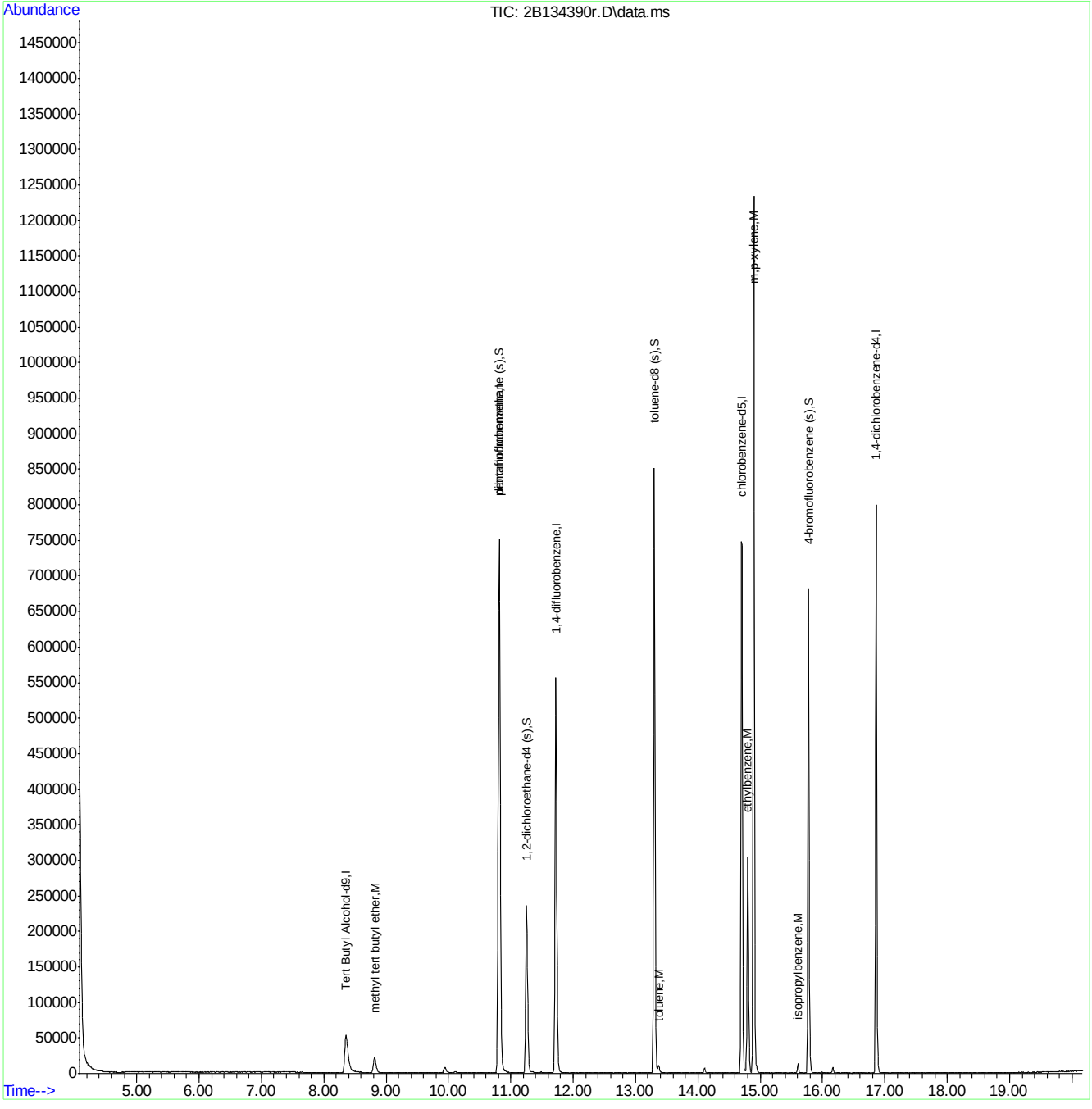
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	106464	500.00	ug/L	-0.01
5) pentafluorobenzene	10.812	168	467074	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	458760	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	383863	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	194869	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	163341	52.72	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.44%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	184181	57.76	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.52%			
82) toluene-d8 (s)	13.302	98	514378	52.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.30%			
108) 4-bromofluorobenzene (s)	15.777	95	170320	52.07	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.14%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.819	73	29398	4.72	ug/L	92
84) toluene	13.375	92	3636	0.68	ug/L	99
100) ethylbenzene	14.796	91	182884	19.90	ug/L	98
101) m,p-xylene	14.896	106	327086	89.76	ug/L	96
107) isopropylbenzene	15.609	105	7625	0.86	ug/L	97

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

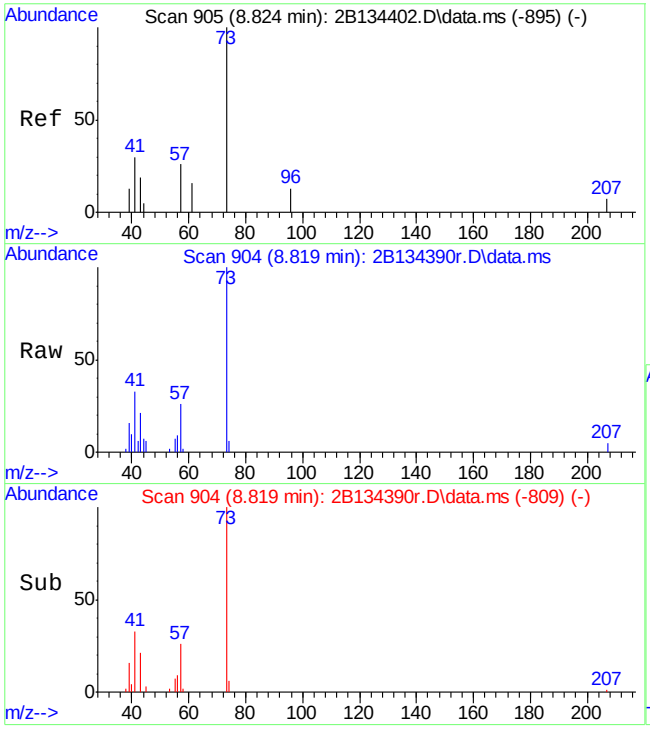
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134390r.D
Acq On : 12 Sep 2015 6:32 am
Operator : BridgetK
Sample : jc3254-21R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 19 18:34:21 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



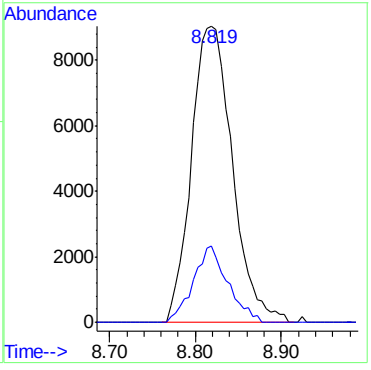
M2B5926.M Sat Dec 19 18:41:29 2015 ACC-VOA-CLN-05A Page: 2

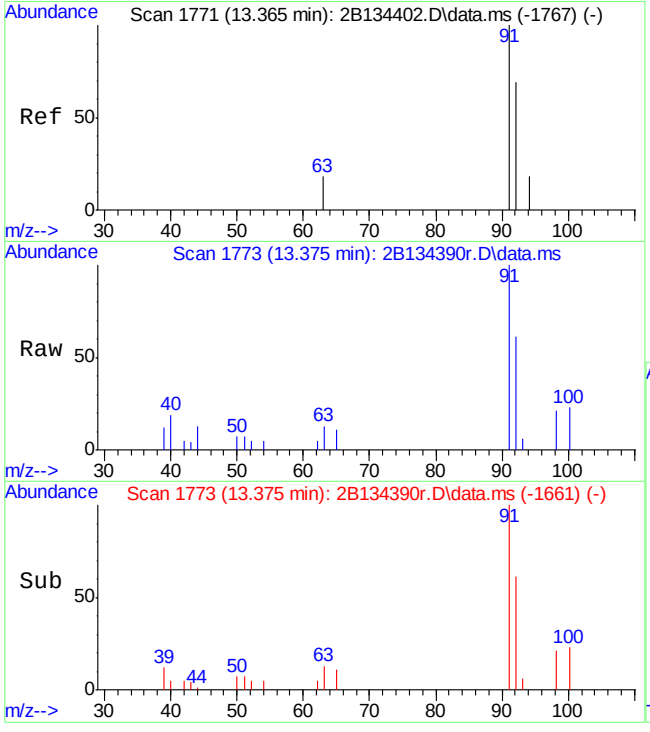


#34
methyl tert butyl ether
Concen: 4.72 ug/L
RT: 8.819 min Scan# 904
Delta R.T. 0.000 min
Lab File: 2B134390r.D
Acq: 12 Sep 2015 6:32 am

Tgt Ion: 73 Resp: 29398

Ion	Ratio	Lower	Upper
73	100		
57	25.6	0.0	52.0

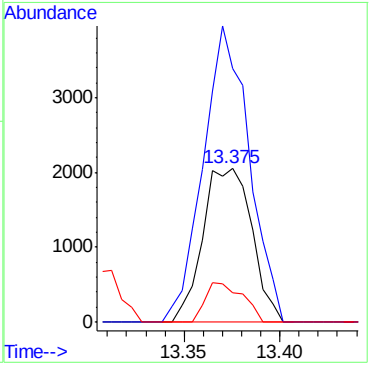


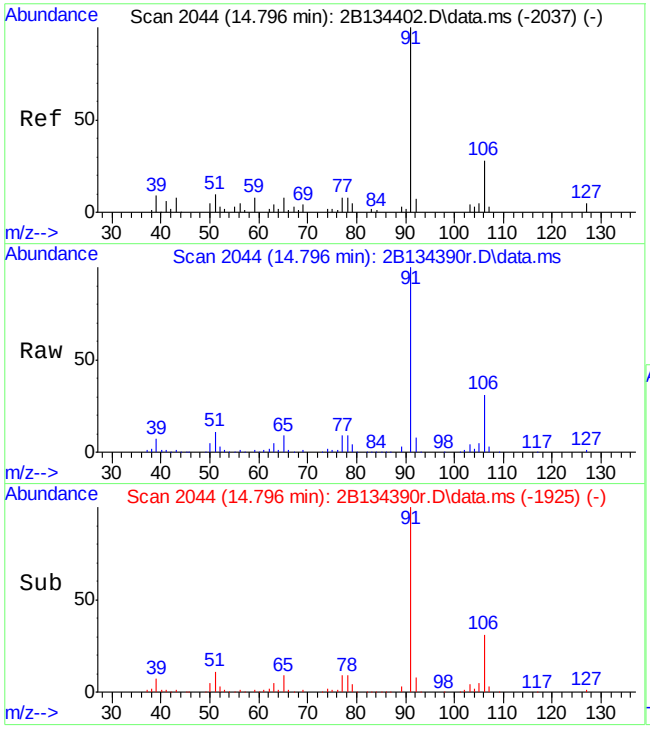


#84
toluene
Concen: 0.68 ug/L
RT: 13.375 min Scan# 1773
Delta R.T. 0.005 min
Lab File: 2B134390r.D
Acq: 12 Sep 2015 6:32 am

Tgt Ion: 92 Resp: 3636

Ion	Ratio	Lower	Upper
92	100		
91	165.1	137.1	197.1
65	18.8	0.0	48.1

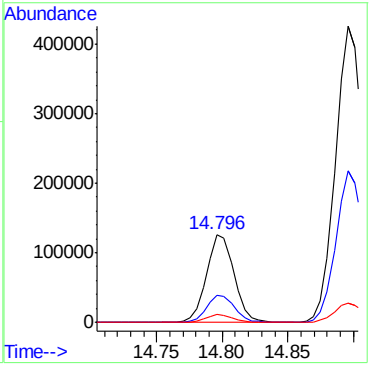


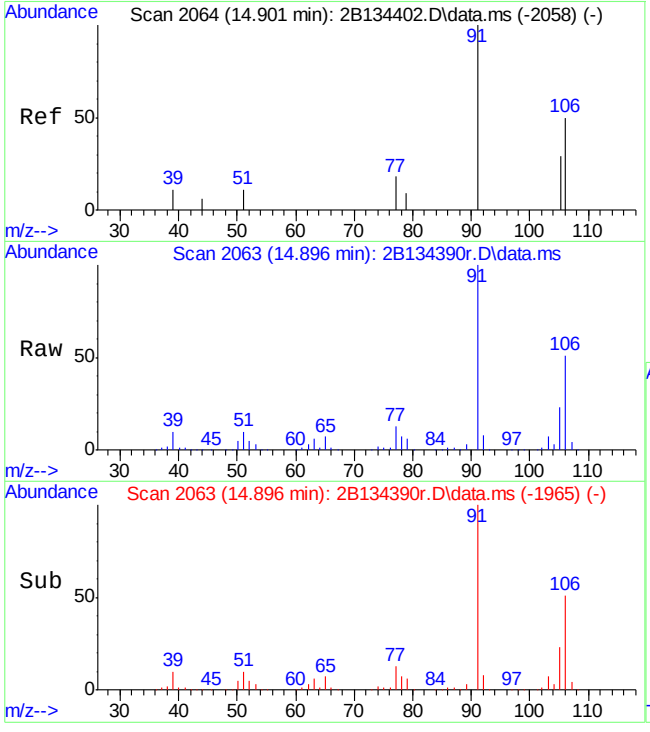


#100
ethylbenzene
Concen: 19.90 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134390r.D
Acq: 12 Sep 2015 6:32 am

Tgt Ion: 91 Resp: 182884

Ion	Ratio	Lower	Upper
91	100		
106	31.0	2.4	62.4
65	8.8	0.0	38.1

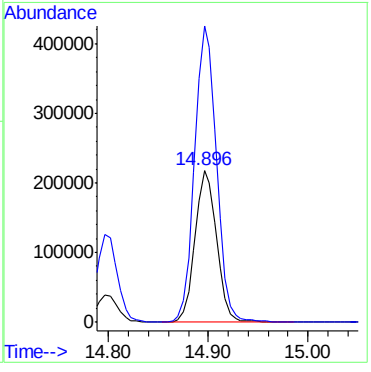


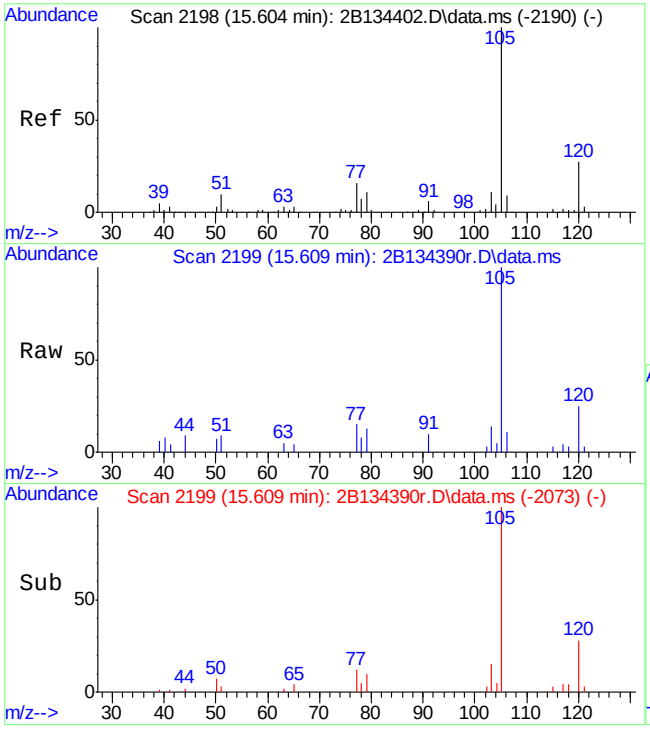


#101
m,p-xylene
Concen: 89.76 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134390r.D
Acq: 12 Sep 2015 6:32 am

Tgt Ion:106 Resp: 327086

Ion	Ratio	Lower	Upper
106	100		
91	194.9	159.7	219.7

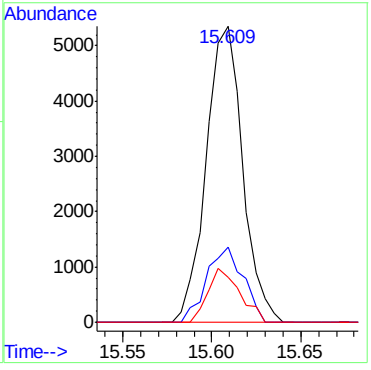




#107
isopropylbenzene
Concen: 0.86 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134390r.D
Acq: 12 Sep 2015 6:32 am

Tgt Ion:105 Resp: 7625

Ion	Ratio	Lower	Upper
105	100		
120	25.5	0.0	56.6
77	15.3	0.0	43.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134391r.D
Acq On : 12 Sep 2015 7:00 am
Operator : BridgetK
Sample : jc3254-22R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 19 18:35:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

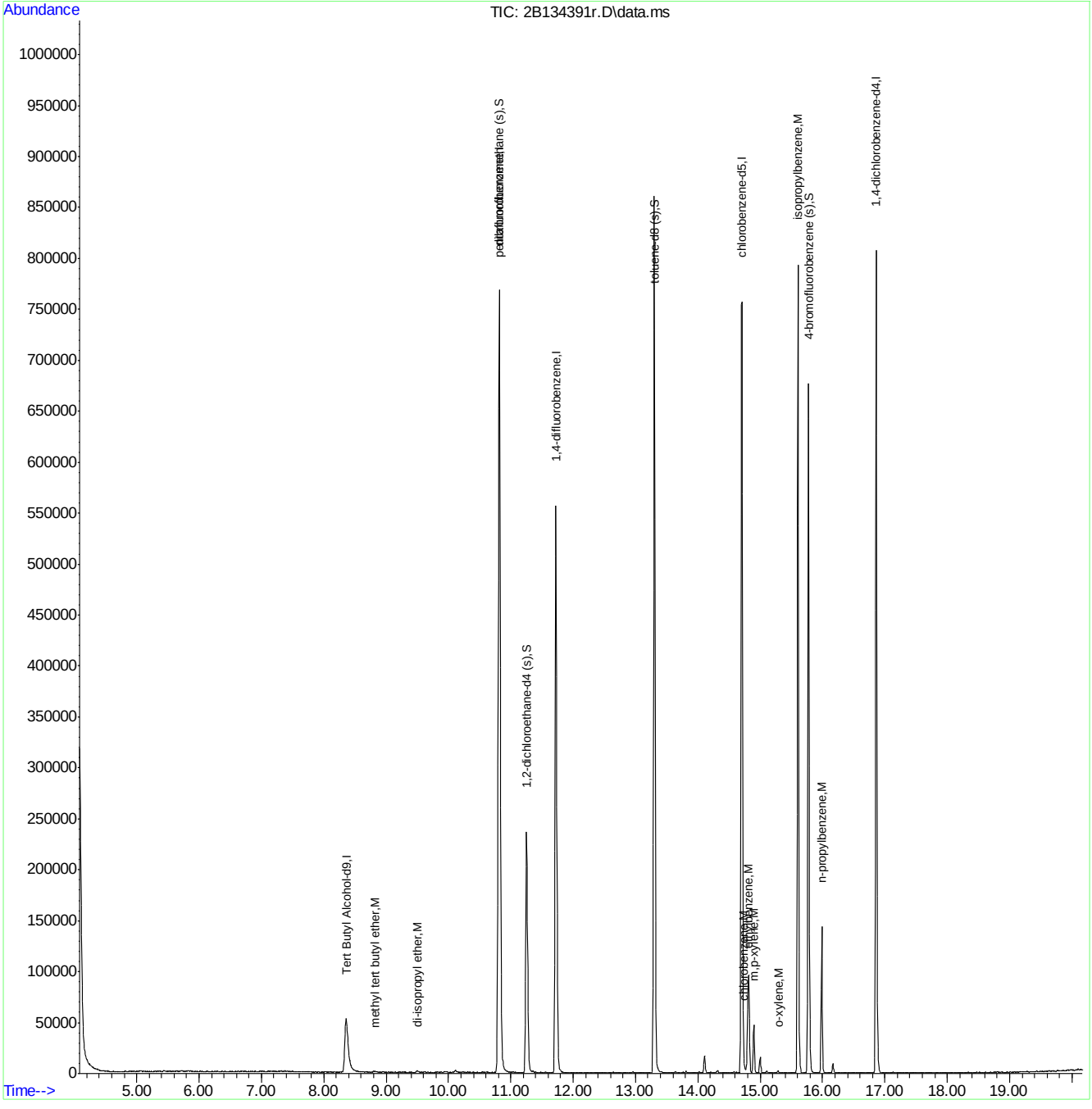
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	106612	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	471558	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	462030	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	383928	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	195989	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	165848	53.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.04%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	185624	57.66	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.32%			
82) toluene-d8 (s)	13.302	98	513294	52.17	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.34%			
108) 4-bromofluorobenzene (s)	15.777	95	174118	52.93	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.86%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.824	73	1470	0.23	ug/L	81
36) di-isopropyl ether	9.495	45	1541	0.20	ug/L	90
98) chlorobenzene	14.733	112	1154	0.20	ug/L	72
100) ethylbenzene	14.801	91	33745	3.67	ug/L	99
101) m,p-xylene	14.896	106	12968	3.56	ug/L	91
102) o-xylene	15.289	106	674	0.18	ug/L	91
107) isopropylbenzene	15.603	105	445616	50.26	ug/L	97
114) n-propylbenzene	15.986	91	94391	9.97	ug/L	98

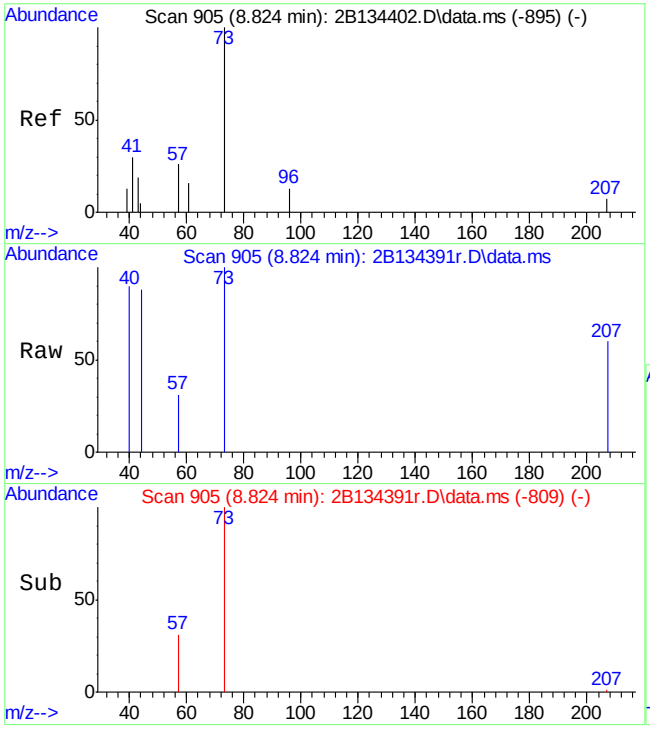
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134391r.D
Acq On : 12 Sep 2015 7:00 am
Operator : BridgetK
Sample : jc3254-22R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 19 18:35:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

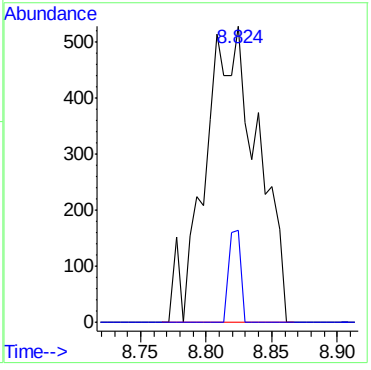


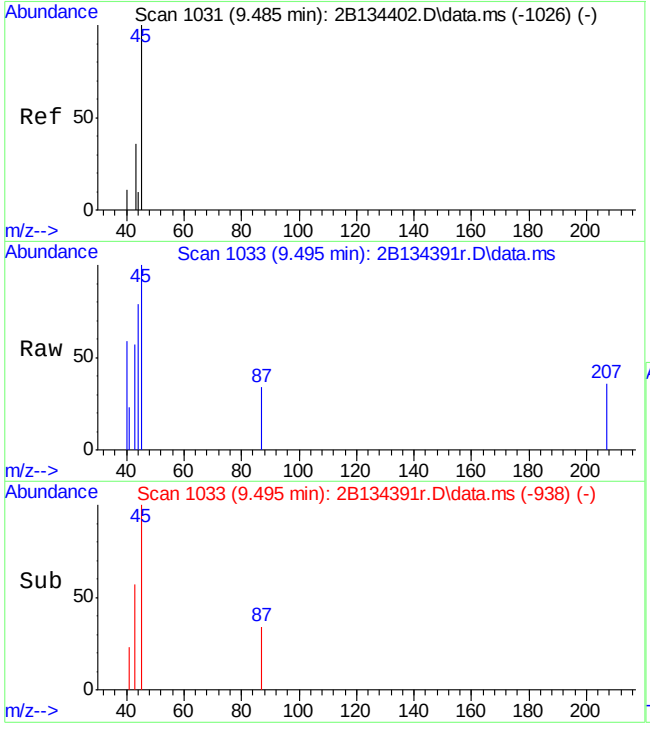


#34
methyl tert butyl ether
Concen: 0.23 ug/L
RT: 8.824 min Scan# 905
Delta R.T. 0.005 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion: 73 Resp: 1470

Ion	Ratio	Lower	Upper
73	100		
57	31.1	0.0	52.0

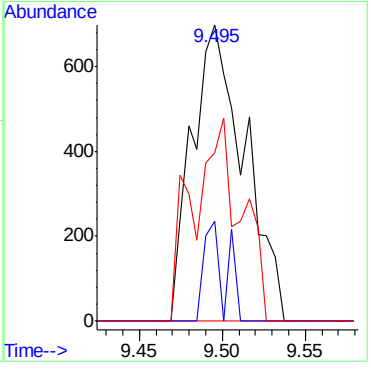


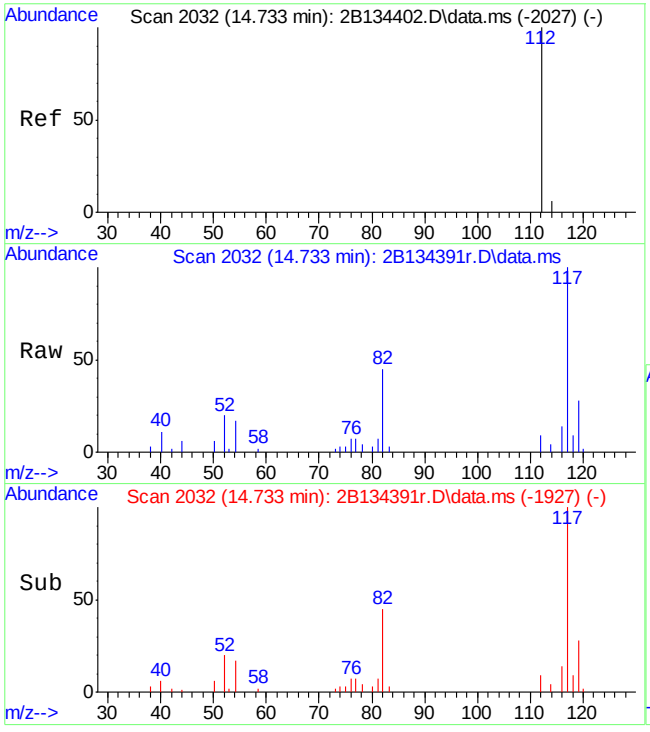


#36
di-isopropyl ether
Concen: 0.20 ug/L
RT: 9.495 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion: 45 Resp: 1541

Ion	Ratio	Lower	Upper
45	100		
87	33.8	0.0	55.3
43	56.7	21.6	81.6

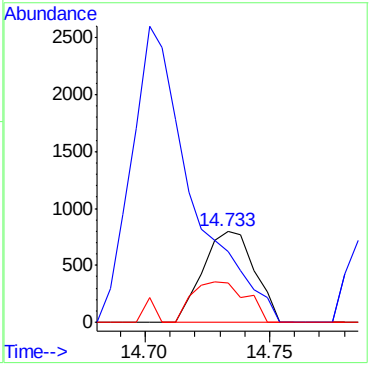


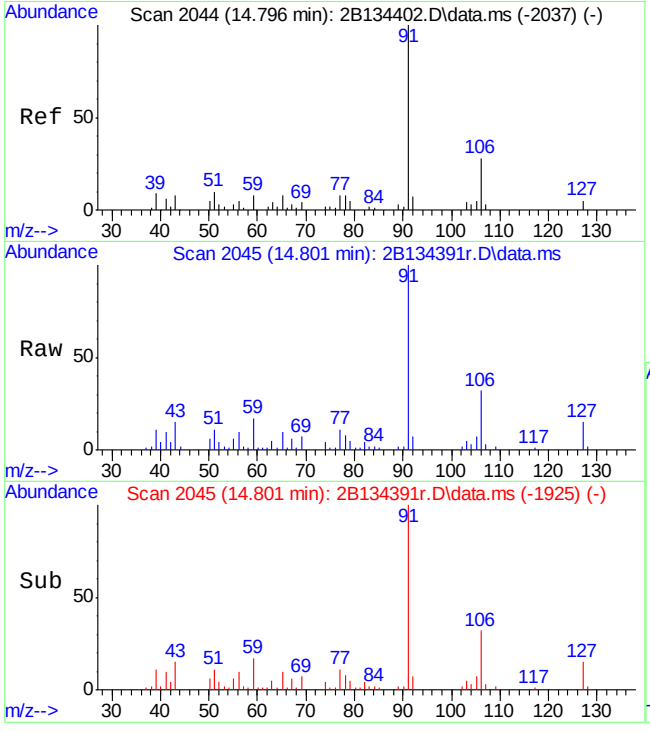


#98
chlorobenzene
Concen: 0.20 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion:112 Resp: 1154

Ion	Ratio	Lower	Upper
112	100		
77	77.4	23.5	83.5
114	42.6	1.6	61.6

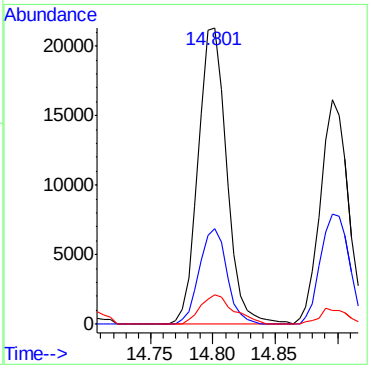


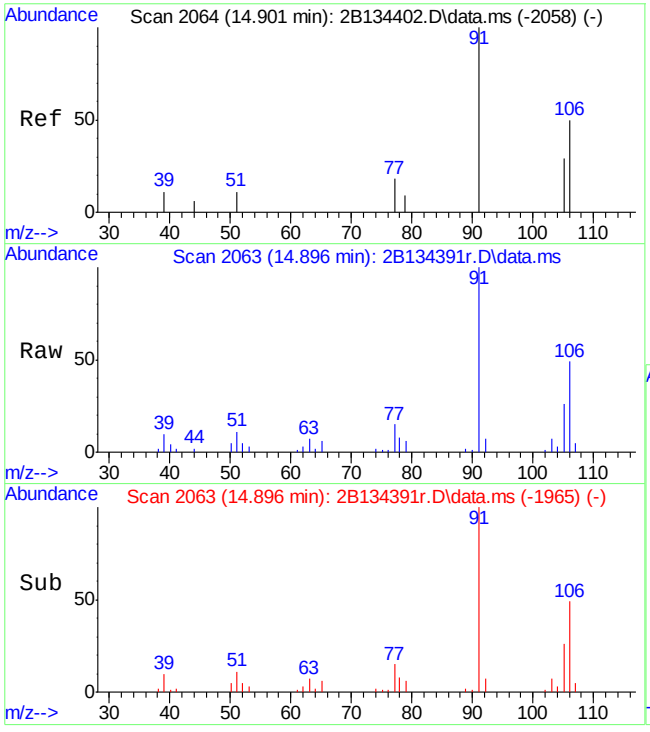


#100
ethylbenzene
Concen: 3.67 ug/L
RT: 14.801 min Scan# 2045
Delta R.T. 0.000 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion: 91 Resp: 33745

Ion	Ratio	Lower	Upper
91	100		
106	32.3	2.4	62.4
65	9.8	0.0	38.1

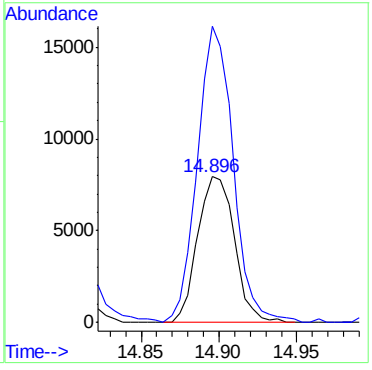


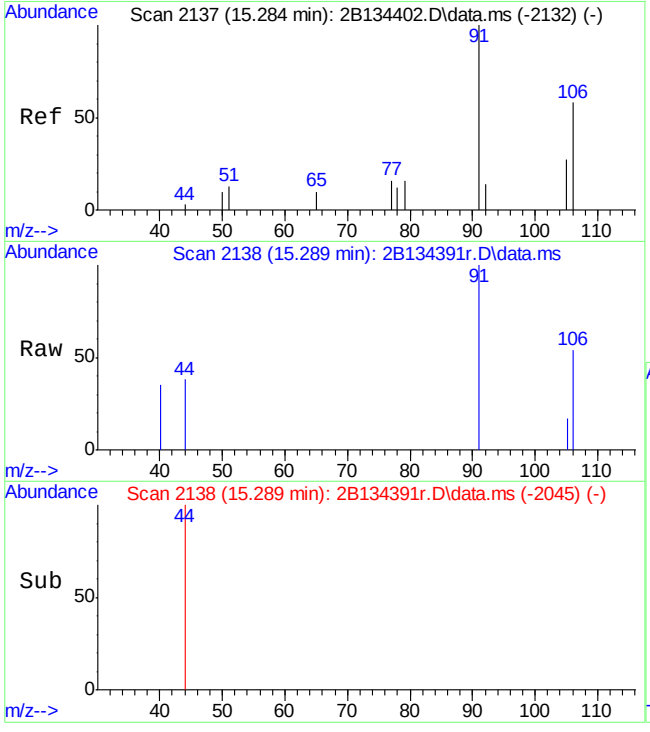


#101
m,p-xylene
Concen: 3.56 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion:106 Resp: 12968

Ion	Ratio	Lower	Upper
106	100		
91	203.1	159.7	219.7

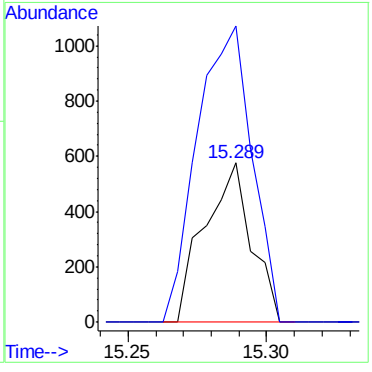


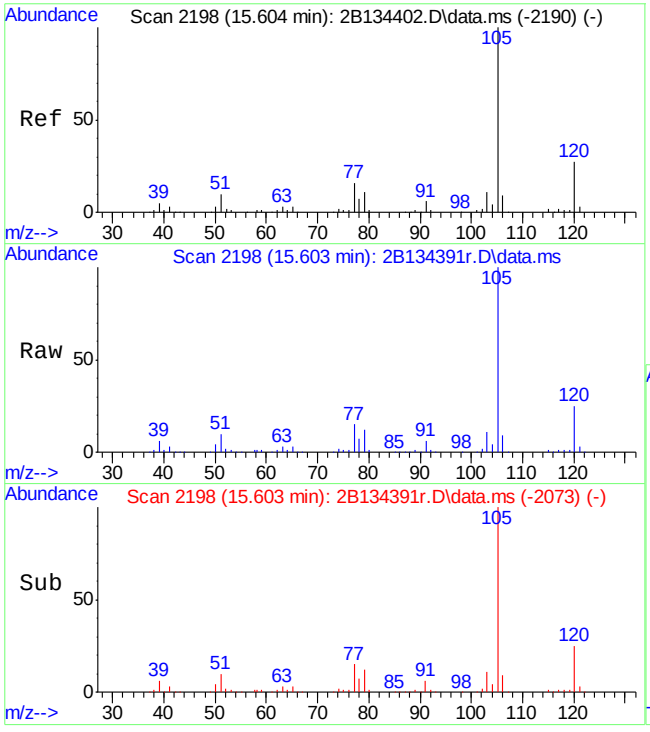


#102
o-xylene
Concen: 0.18 ug/L
RT: 15.289 min Scan# 2138
Delta R.T. 0.006 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion:106 Resp: 674

Ion	Ratio	Lower	Upper
106	100		
91	186.1	170.1	230.1

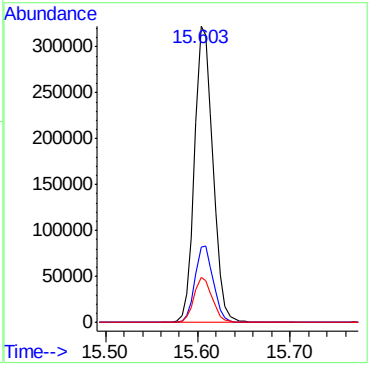


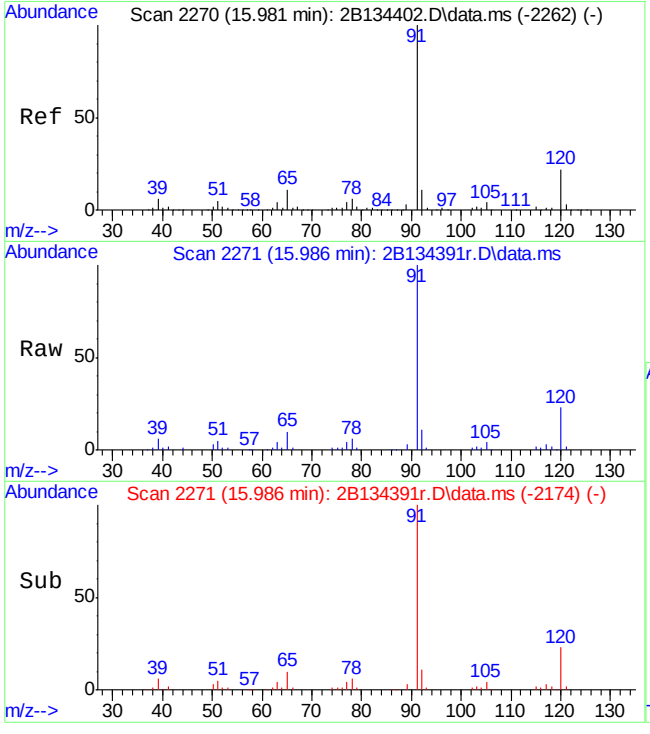


#107
isopropylbenzene
Concen: 50.26 ug/L
RT: 15.603 min Scan# 2198
Delta R.T. -0.005 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion:105 Resp: 445616

Ion	Ratio	Lower	Upper
105	100		
120	25.3	0.0	56.6
77	15.4	0.0	43.7

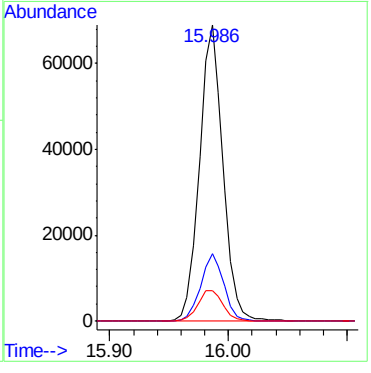




#114
n-propylbenzene
Concen: 9.97 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. 0.000 min
Lab File: 2B134391r.D
Acq: 12 Sep 2015 7:00 am

Tgt Ion: 91 Resp: 94391

Ion	Ratio	Lower	Upper
91	100		
120	22.9	0.0	54.2
65	10.4	0.0	39.7



7.1.23
7
JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134392r.D
Acq On : 12 Sep 2015 7:29 am
Operator : BridgetK
Sample : jc3254-23R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 19 18:37:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

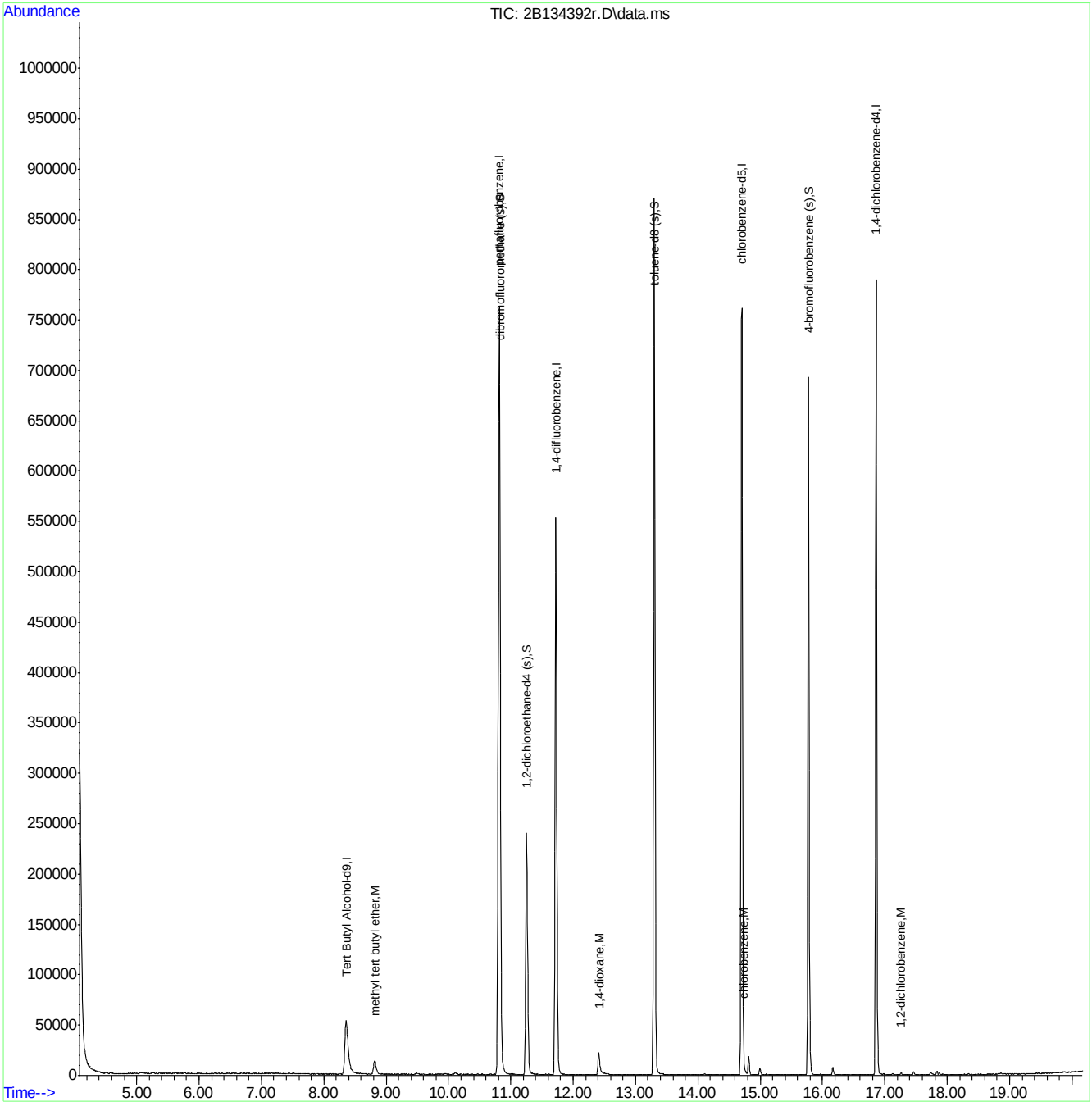
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	104283	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	471843	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	461381	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	385932	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	194949	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	167250	53.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.86%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	184807	57.37	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.74%			
82) toluene-d8 (s)	13.302	98	519140	52.84	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.68%			
108) 4-bromofluorobenzene (s)	15.776	95	171024	52.27	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.54%			
Target Compounds						Qvalue
4) 1,4-dioxane	12.416	88	22267	1038.70	ug/L	89
34) methyl tert butyl ether	8.819	73	18682	2.97	ug/L	90
98) chlorobenzene	14.733	112	3139	0.55	ug/L	97
125) 1,2-dichlorobenzene	17.260	146	1136	0.24	ug/L	76

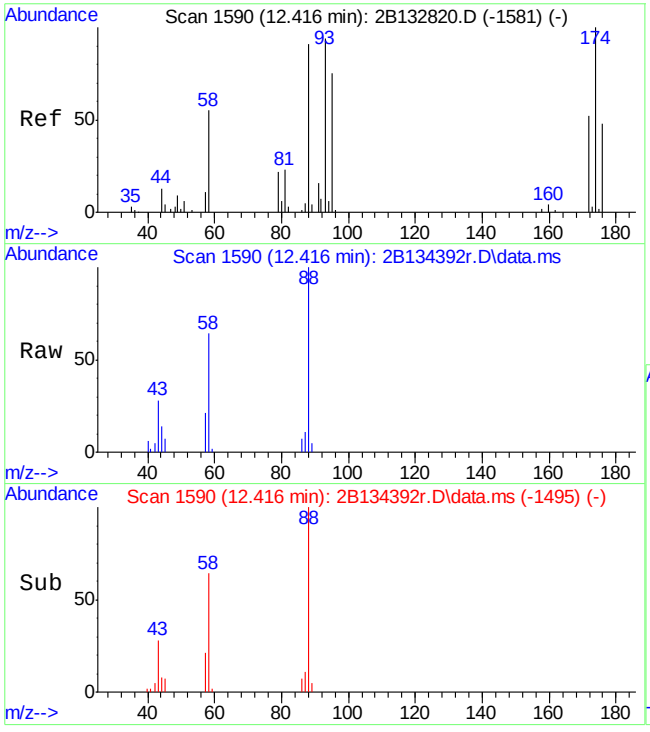
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134392r.D
Acq On : 12 Sep 2015 7:29 am
Operator : BridgetK
Sample : jc3254-23R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 19 18:37:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

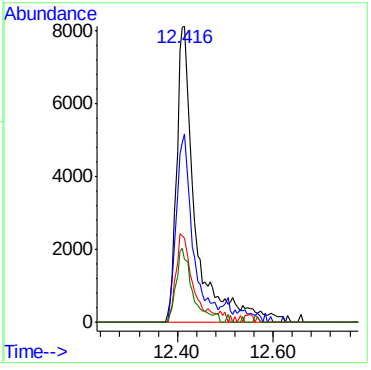


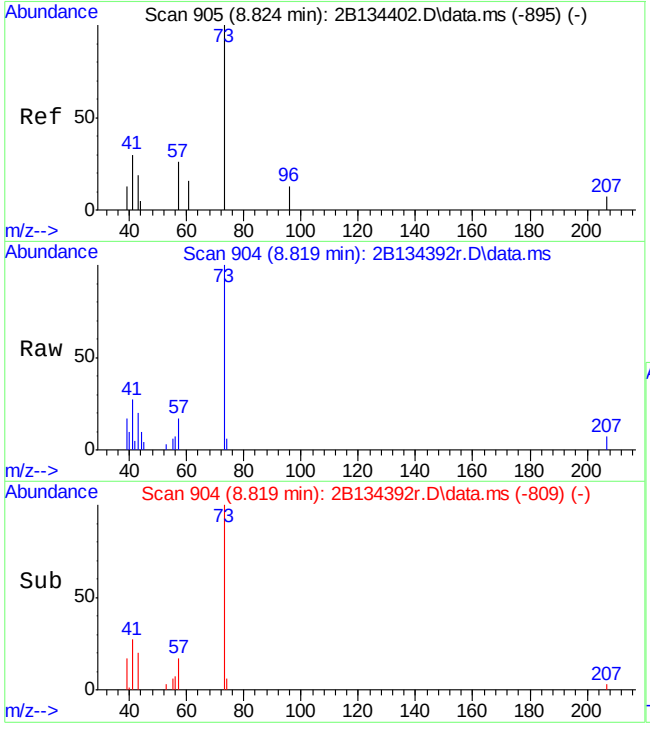


#4
1,4-dioxane
Concen: 1038.70 ug/L
RT: 12.416 min Scan# 1590
Delta R.T. 0.001 min
Lab File: 2B134392r.D
Acq: 12 Sep 2015 7:29 am

Tgt Ion: 88 Resp: 22267

Ion	Ratio	Lower	Upper
88	100		
58	63.8	29.7	89.7
43	28.4	12.4	72.4
57	21.1	0.0	49.6

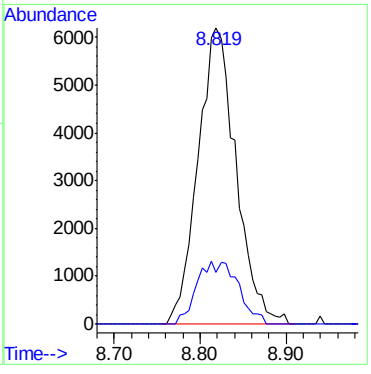


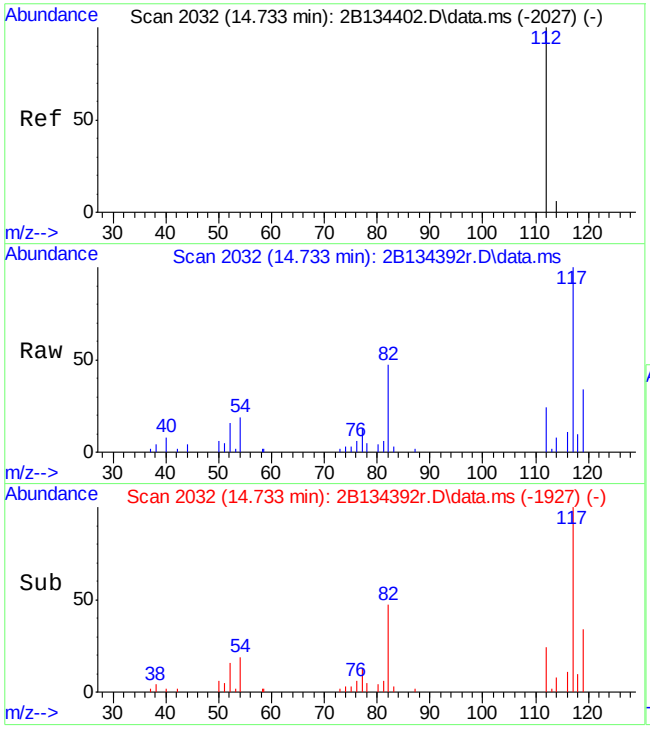


#34
methyl tert butyl ether
Concen: 2.97 ug/L
RT: 8.819 min Scan# 904
Delta R.T. -0.000 min
Lab File: 2B134392r.D
Acq: 12 Sep 2015 7:29 am

Tgt Ion: 73 Resp: 18682

Ion	Ratio	Lower	Upper
73	100		
57	17.5	0.0	52.0

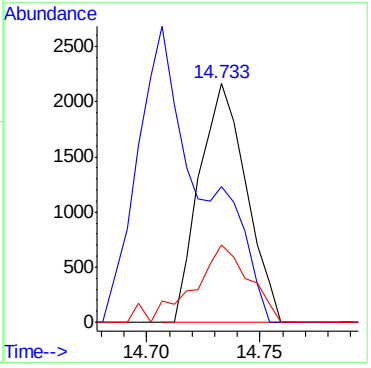


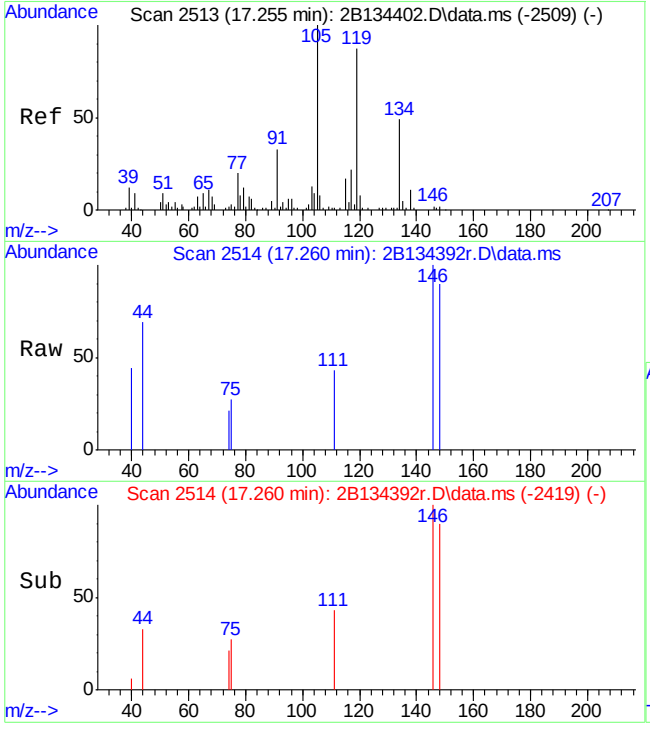


#98
chlorobenzene
Concen: 0.55 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 2B134392r.D
Acq: 12 Sep 2015 7:29 am

Tgt Ion:112 Resp: 3139

Ion	Ratio	Lower	Upper
112	100		
77	56.6	23.5	83.5
114	32.5	1.6	61.6

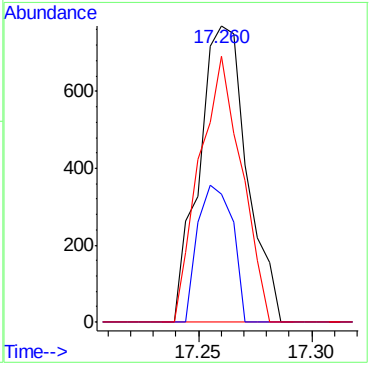




#125
1,2-dichlorobenzene
Concen: 0.24 ug/L
RT: 17.260 min Scan# 2514
Delta R.T. -0.000 min
Lab File: 2B134392r.D
Acq: 12 Sep 2015 7:29 am

Tgt Ion:146 Resp: 1136

Ion	Ratio	Lower	Upper
146	100		
111	43.4	5.0	65.0
148	89.9	37.0	97.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134393r.D
Acq On : 12 Sep 2015 7:57 am
Operator : BridgetK
Sample : jc3254-24R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Dec 19 18:39:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

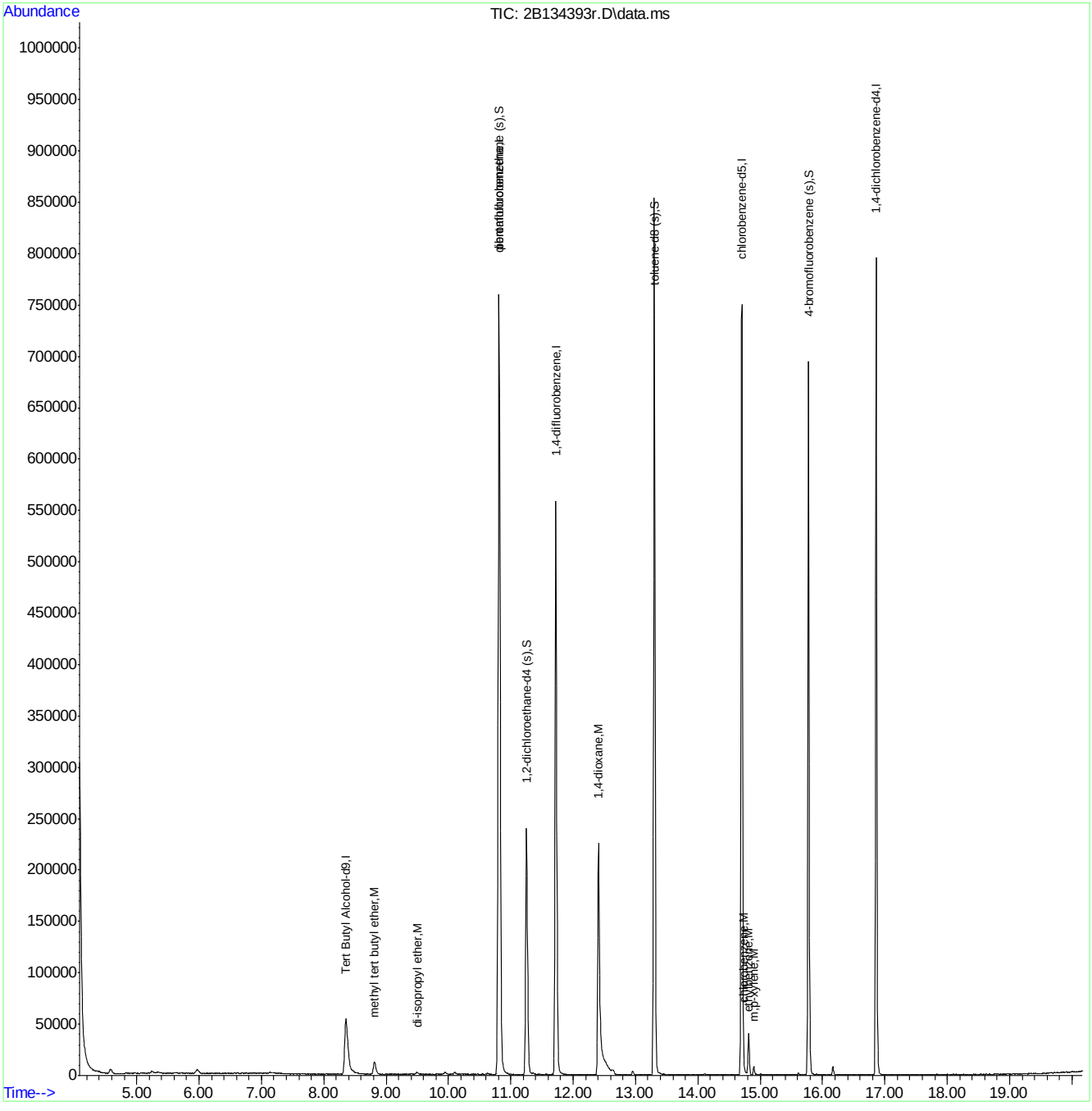
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.352	65	106301	500.00	ug/L	-0.02
5) pentafluorobenzene	10.811	168	470543	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	460941	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	378166	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	193383	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	165338	52.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.94%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	183572	57.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.28%			
82) toluene-d8 (s)	13.302	98	513655	52.33	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.66%			
108) 4-bromofluorobenzene (s)	15.777	95	170583	52.55	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.10%			
Target Compounds						Qvalue
4) 1,4-dioxane	12.405	88	225771	10331.75	ug/L	89
34) methyl tert butyl ether	8.809	73	16072	2.56	ug/L	100
36) di-isopropyl ether	9.495	45	2314	0.30	ug/L	80
98) chlorobenzene	14.733	112	1111	0.20	ug/L	79
100) ethylbenzene	14.801	91	2731	0.30	ug/L	90
101) m,p-xylene	14.896	106	2320	0.65	ug/L	96

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

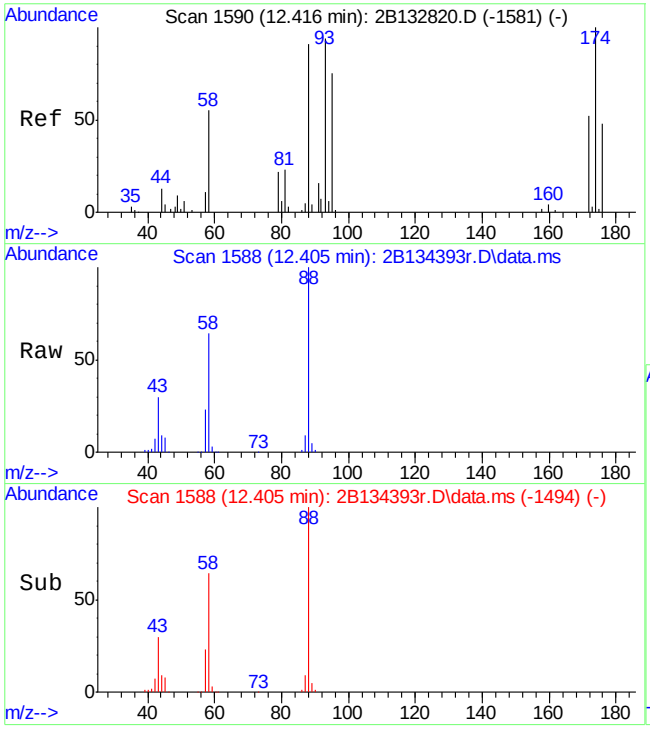
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134393r.D
Acq On : 12 Sep 2015 7:57 am
Operator : BridgetK
Sample : jc3254-24R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Dec 19 18:39:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



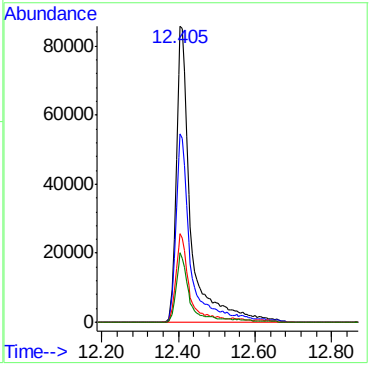
M2B5926.M Sat Dec 19 18:41:38 2015 ACC-VOA-CLN-05A Page: 2

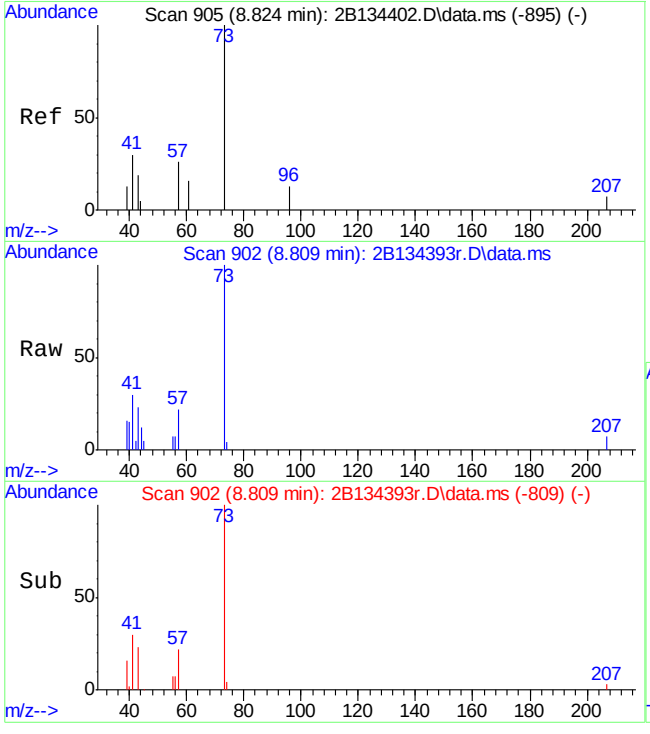


#4
1,4-dioxane
Concen: 10331.75 ug/L
RT: 12.405 min Scan# 1588
Delta R.T. -0.010 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion: 88 Resp: 225771

Ion	Ratio	Lower	Upper
88	100		
58	63.7	29.7	89.7
43	29.9	12.4	72.4
57	23.4	0.0	49.6

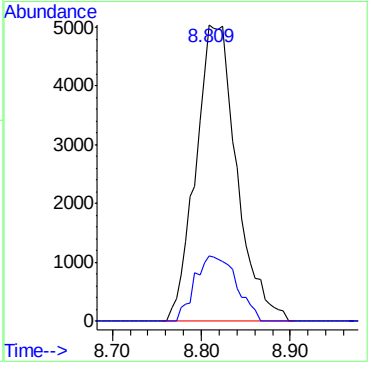


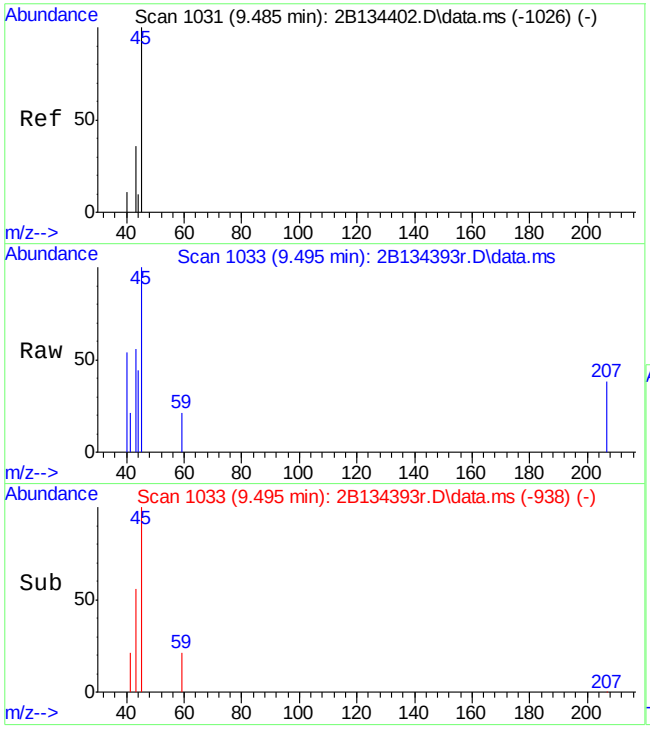


#34
methyl tert butyl ether
Concen: 2.56 ug/L
RT: 8.809 min Scan# 902
Delta R.T. -0.010 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion: 73 Resp: 16072

Ion	Ratio	Lower	Upper
73	100		
57	22.0	0.0	52.0

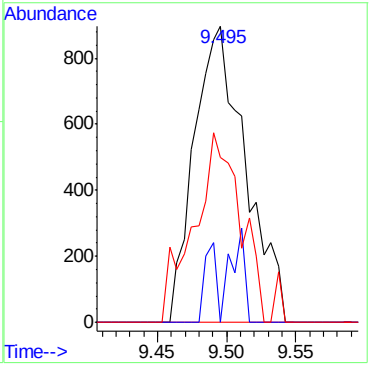


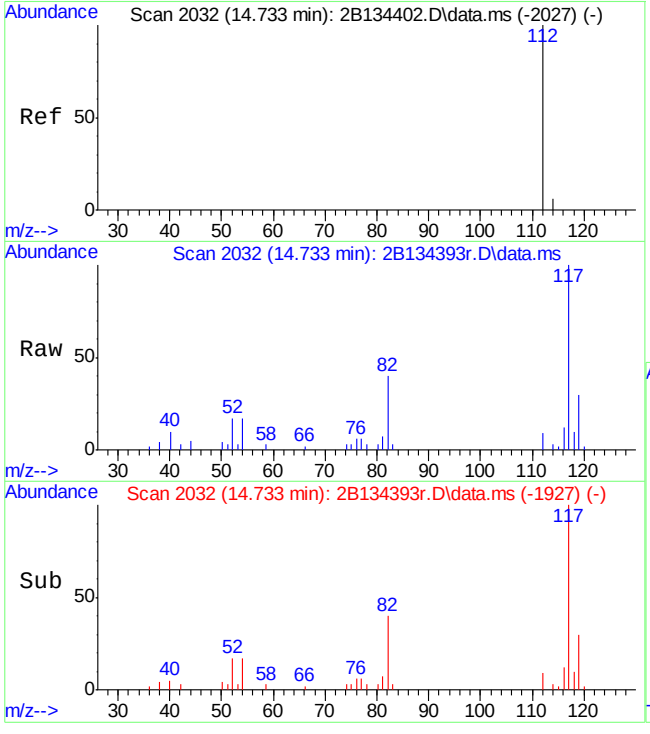


#36
di-isopropyl ether
Concen: 0.30 ug/L
RT: 9.495 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion: 45 Resp: 2314

Ion	Ratio	Lower	Upper
45	100		
87	0.0	0.0	55.3
43	55.6	21.6	81.6

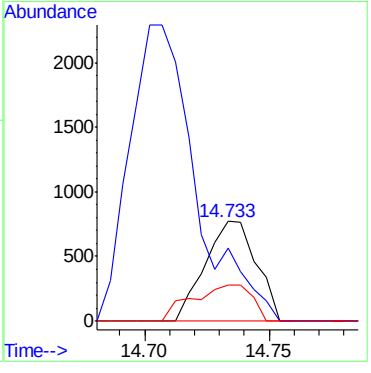


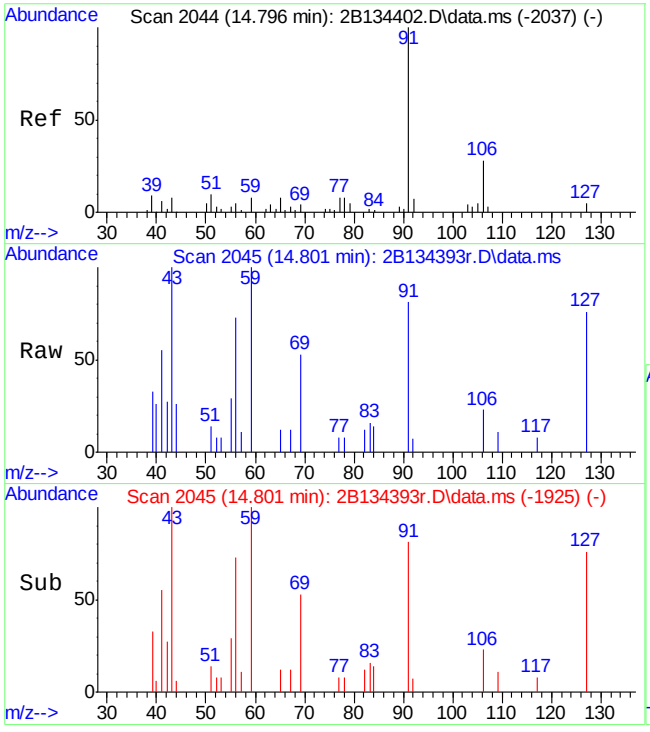


#98
chlorobenzene
Concen: 0.20 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion:112 Resp: 1111

Ion	Ratio	Lower	Upper
112	100		
77	73.7	23.5	83.5
114	36.7	1.6	61.6

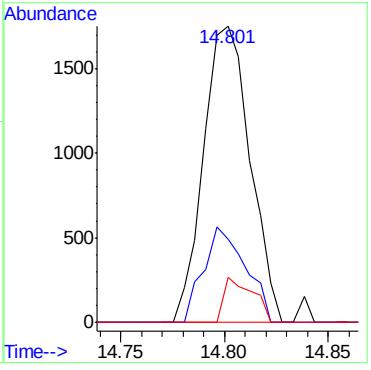


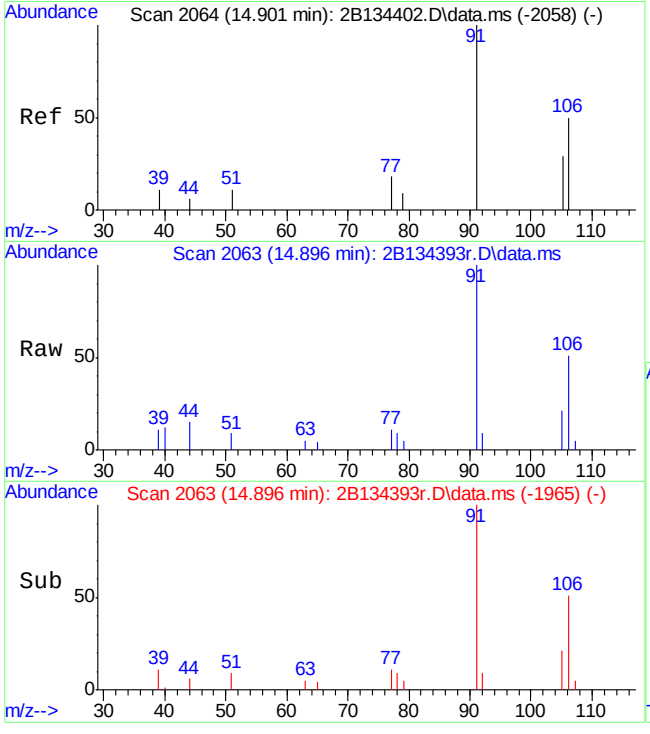


#100
ethylbenzene
Concen: 0.30 ug/L
RT: 14.801 min Scan# 2045
Delta R.T. 0.000 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion: 91 Resp: 2731

Ion	Ratio	Lower	Upper
91	100		
106	28.1	2.4	62.4
65	15.2	0.0	38.1

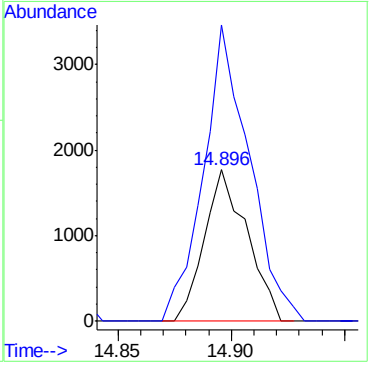




#101
m,p-xylene
Concen: 0.65 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134393r.D
Acq: 12 Sep 2015 7:57 am

Tgt Ion:106 Resp: 2320

Ion	Ratio	Lower	Upper
106	100		
91	196.1	159.7	219.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134380r.D
Acq On : 12 Sep 2015 1:47 am
Operator : BridgetK
Sample : jc3254-25R
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Dec 19 18:19:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

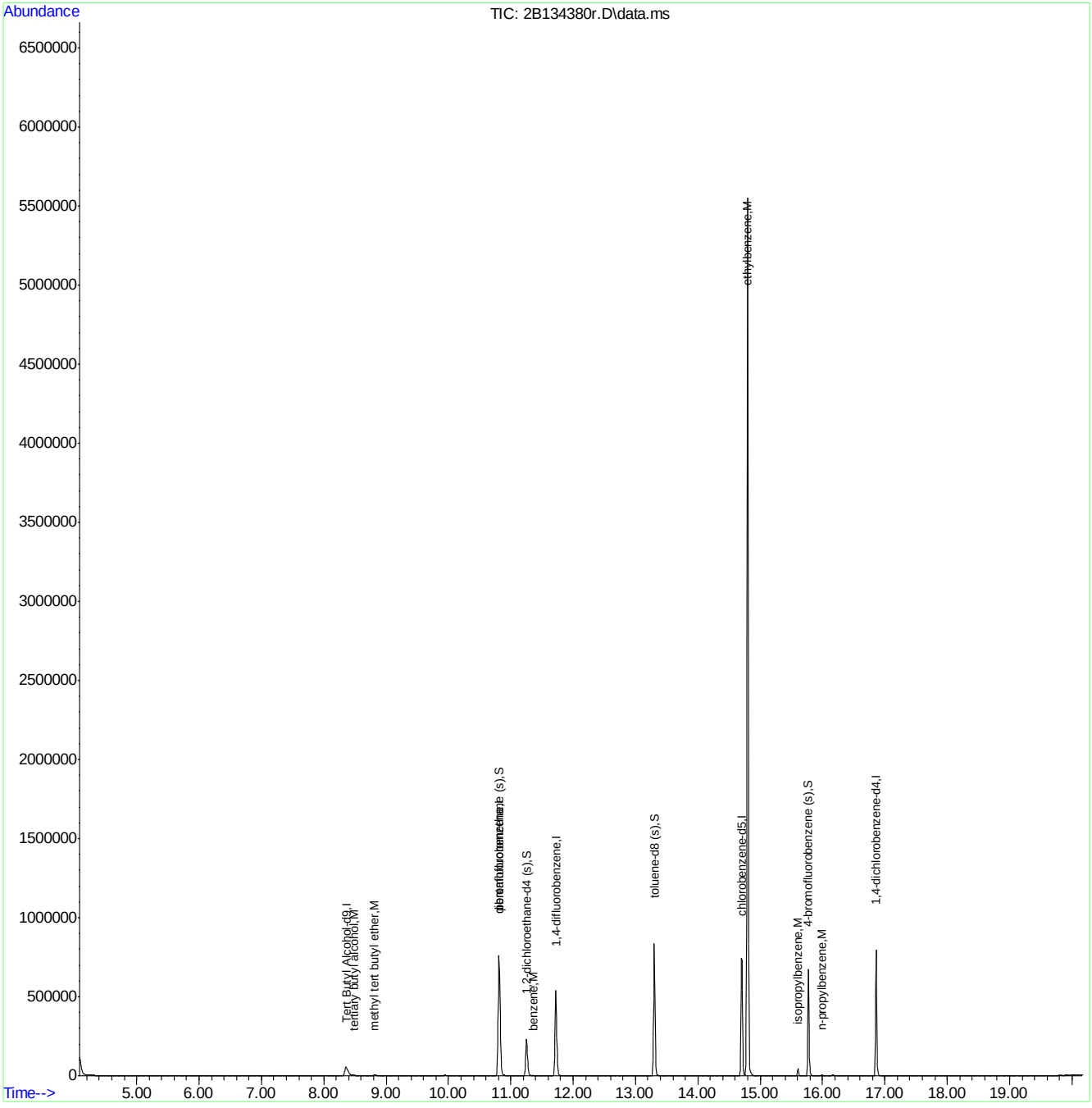
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	112309	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	475010	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	457336	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	377507	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	197919	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	159998	50.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.54%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	179317	55.30	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.60%			
82) toluene-d8 (s)	13.302	98	513464	52.72	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.44%			
108) 4-bromofluorobenzene (s)	15.771	95	173685	52.28	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.56%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.483	59	1710	6.53	ug/L #	47
34) methyl tert butyl ether	8.814	73	6949	1.10	ug/L	92
66) benzene	11.362	78	2160	0.26	ug/L	85
100) ethylbenzene	14.796	91	3525739	390.15	ug/L	98
107) isopropylbenzene	15.609	105	25909	2.89	ug/L	96
114) n-propylbenzene	15.986	91	5920	0.62	ug/L	95

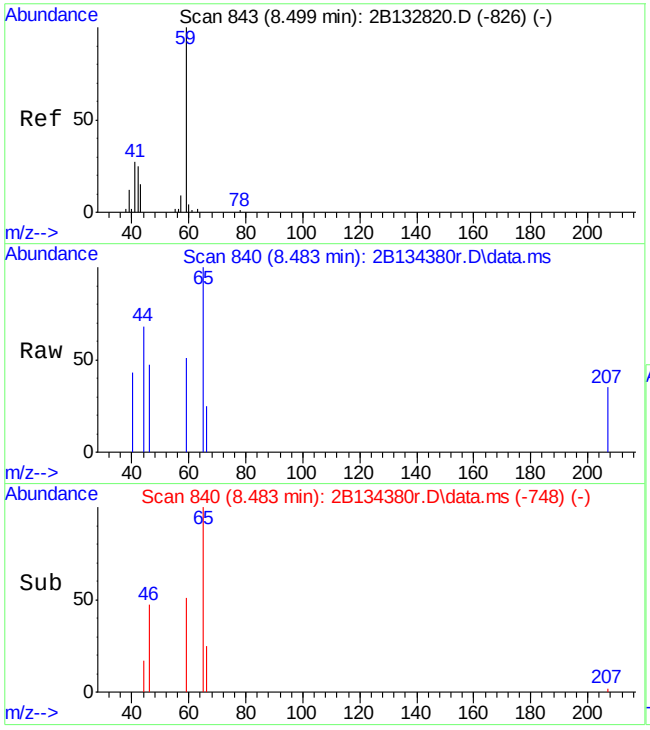
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134380r.D
Acq On : 12 Sep 2015 1:47 am
Operator : BridgetK
Sample : jc3254-25R
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Dec 19 18:19:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

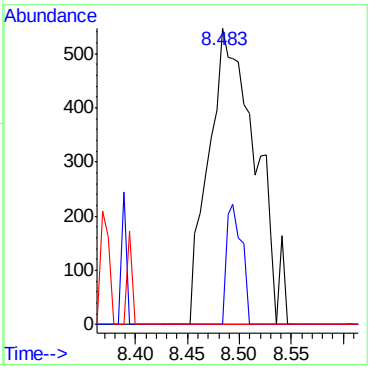


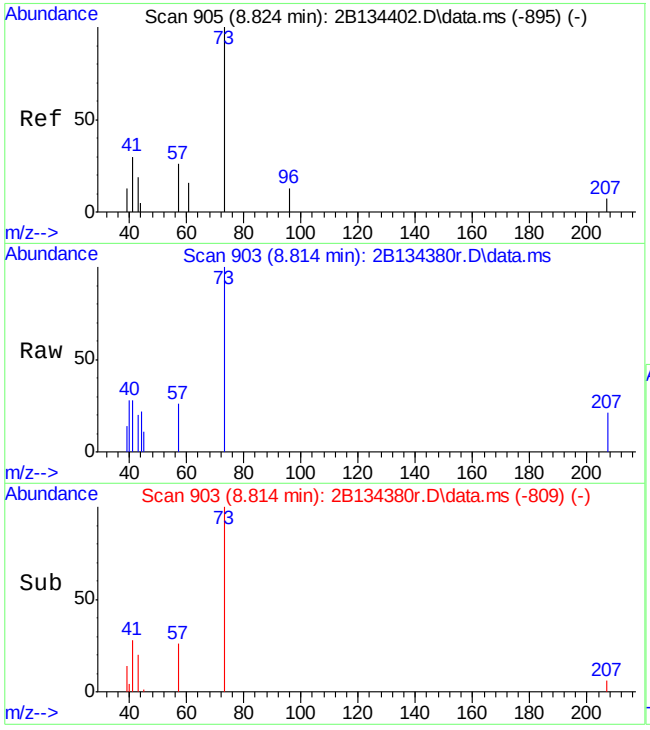


#2
tertiary butyl alcohol
Concen: 6.53 ug/L
RT: 8.483 min Scan# 840
Delta R.T. -0.016 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion: 59 Resp: 1710

Ion	Ratio	Lower	Upper
59	100		
41	0.0	4.6	64.6#
43	0.0	0.0	48.1

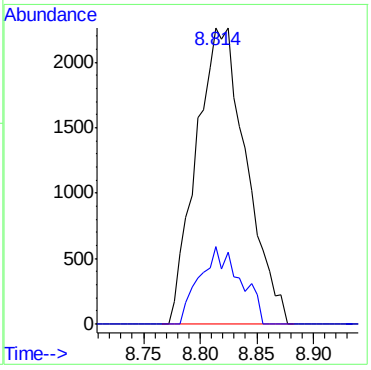


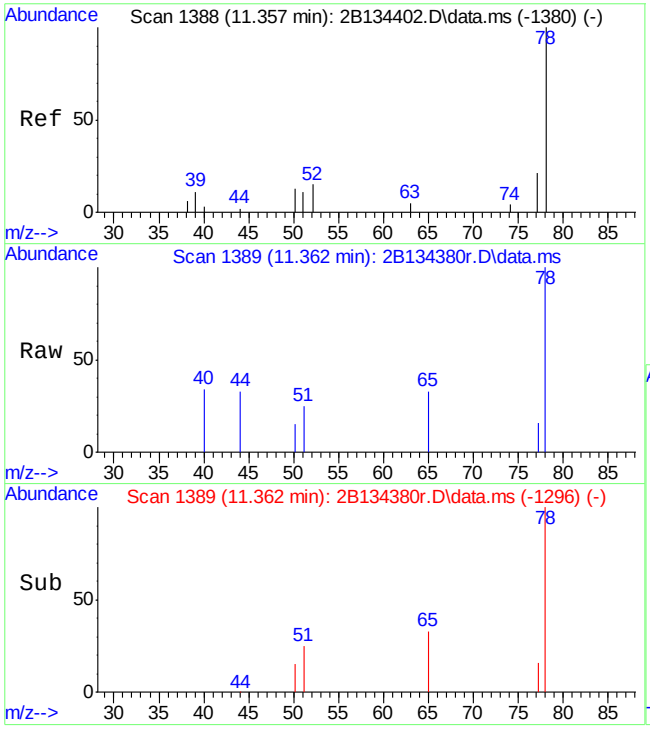


#34
methyl tert butyl ether
Concen: 1.10 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion: 73 Resp: 6949

Ion	Ratio	Lower	Upper
73	100		
57	26.0	0.0	52.0

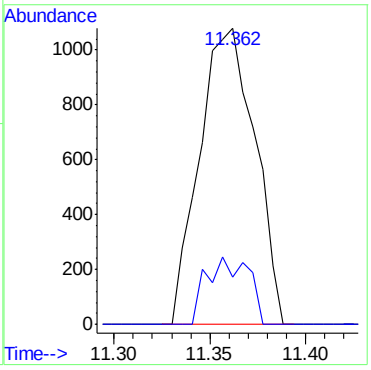


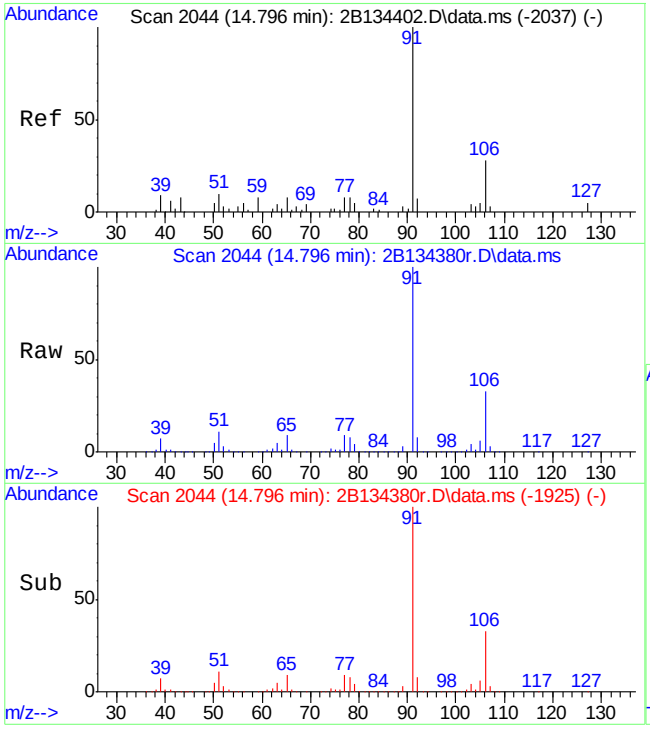


#66
benzene
Concen: 0.26 ug/L
RT: 11.362 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion: 78 Resp: 2160

Ion	Ratio	Lower	Upper
78	100		
77	16.1	0.0	53.4

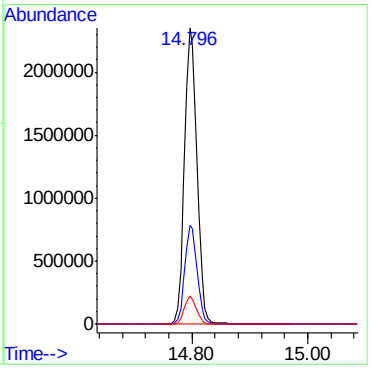


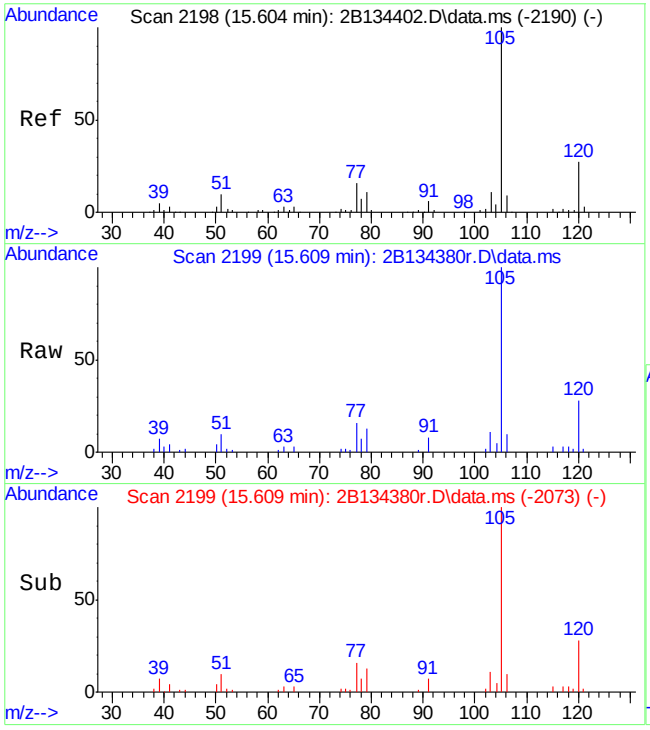


#100
ethylbenzene
Concen: 390.15 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion: 91 Resp: 3525739

Ion	Ratio	Lower	Upper
91	100		
106	33.5	2.4	62.4
65	9.3	0.0	38.1

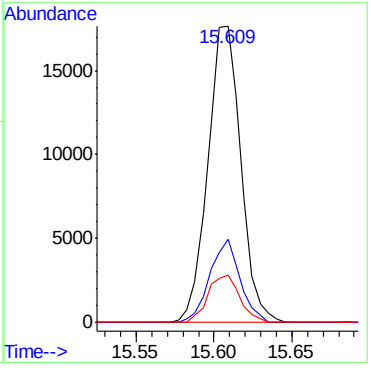


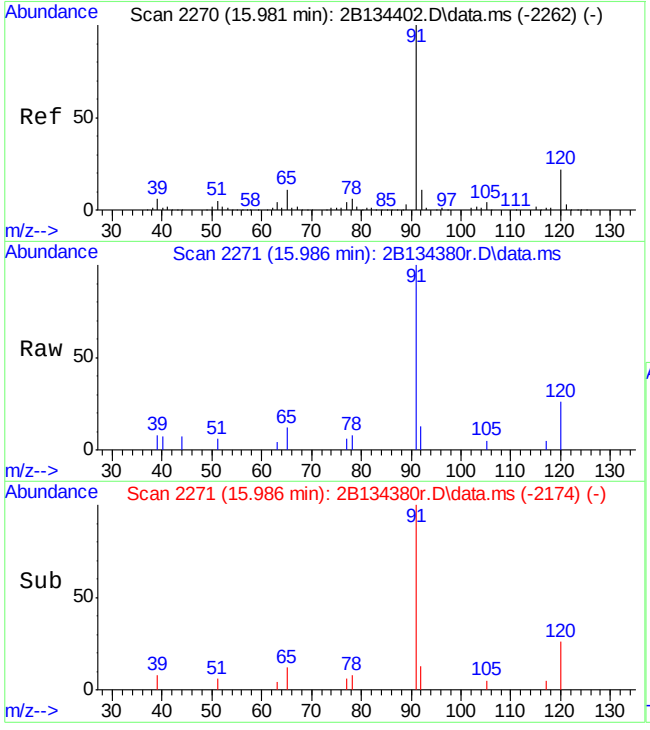


#107
isopropylbenzene
Concen: 2.89 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion:105 Resp: 25909

Ion	Ratio	Lower	Upper
105	100		
120	27.9	0.0	56.6
77	15.9	0.0	43.7

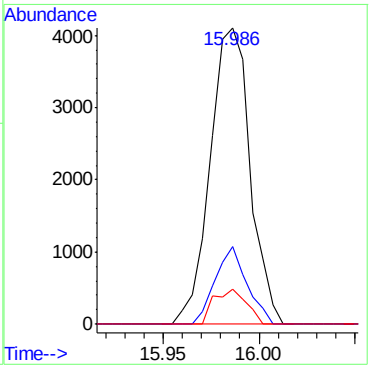




#114
n-propylbenzene
Concen: 0.62 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. 0.000 min
Lab File: 2B134380r.D
Acq: 12 Sep 2015 1:47 am

Tgt Ion: 91 Resp: 5920

Ion	Ratio	Lower	Upper
91	100		
120	26.3	0.0	54.2
65	11.9	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134381r.D
Acq On : 12 Sep 2015 2:15 am
Operator : BridgetK
Sample : jc3254-25R
Misc : ms90889,v2B5988,w,,,,100
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Dec 19 18:20:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

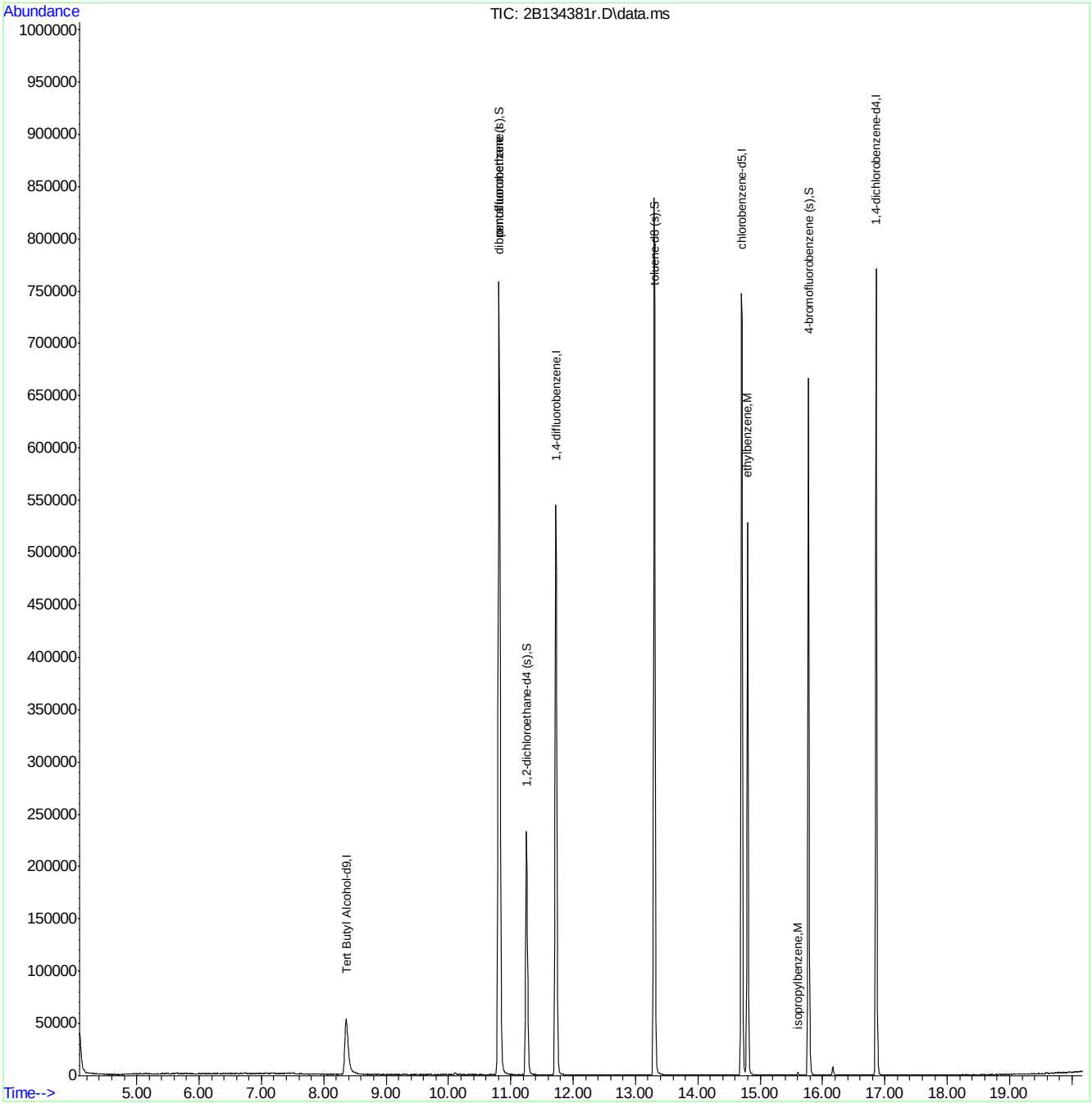
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	110714	500.00	ug/L	0.00
5) pentafluorobenzene	10.812	168	476282	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	458646	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	376291	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	194837	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	160453	50.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.56%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	178799	54.99	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.98%			
82) toluene-d8 (s)	13.302	98	505481	51.75	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.50%			
108) 4-bromofluorobenzene (s)	15.777	95	171414	52.42	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.84%			
Target Compounds						Qvalue
100) ethylbenzene	14.796	91	336645	37.37	ug/L	98
107) isopropylbenzene	15.609	105	1850	0.21	ug/L	91

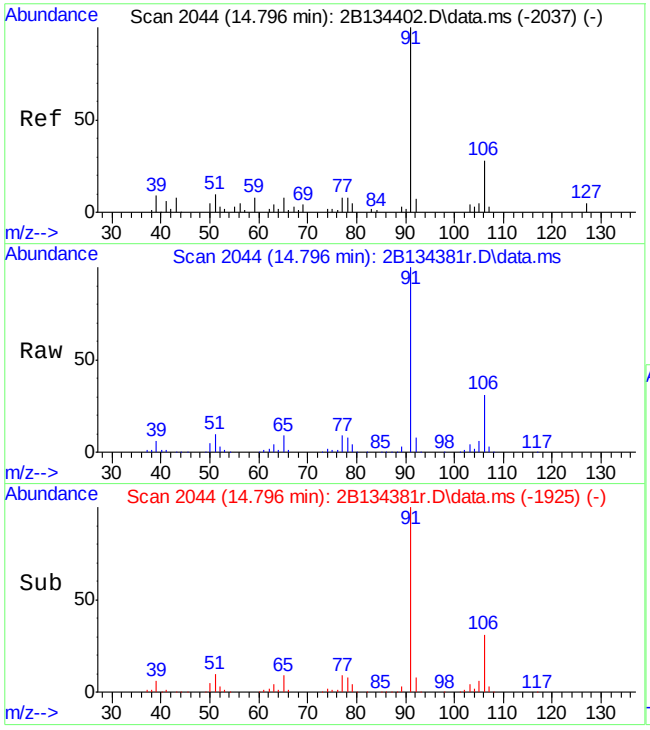
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134381r.D
Acq On : 12 Sep 2015 2:15 am
Operator : BridgetK
Sample : jc3254-25R
Misc : ms90889,v2B5988,w,,,,100
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Dec 19 18:20:52 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

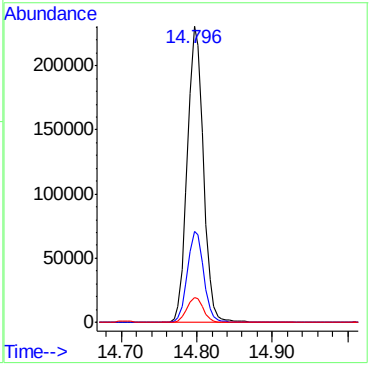


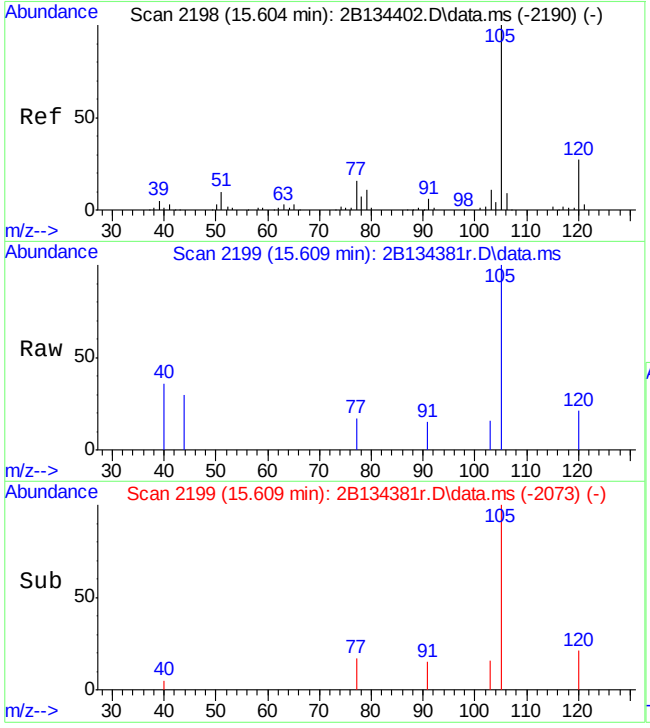


#100
ethylbenzene
Concen: 37.37 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134381r.D
Acq: 12 Sep 2015 2:15 am

Tgt Ion: 91 Resp: 336645

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.4	62.4
65	8.6	0.0	38.1

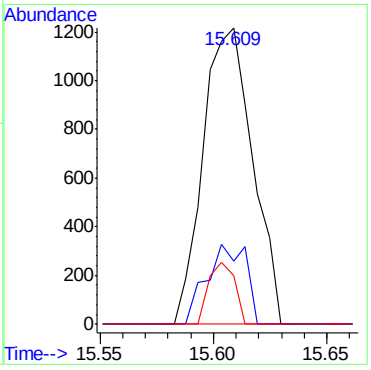




#107
isopropylbenzene
Concen: 0.21 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134381r.D
Acq: 12 Sep 2015 2:15 am

Tgt Ion:105 Resp: 1850

Ion	Ratio	Lower	Upper
105	100		
120	21.2	0.0	56.6
77	16.5	0.0	43.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134382r.D
Acq On : 12 Sep 2015 2:43 am
Operator : BridgetK
Sample : jc3254-26R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 19 18:23:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

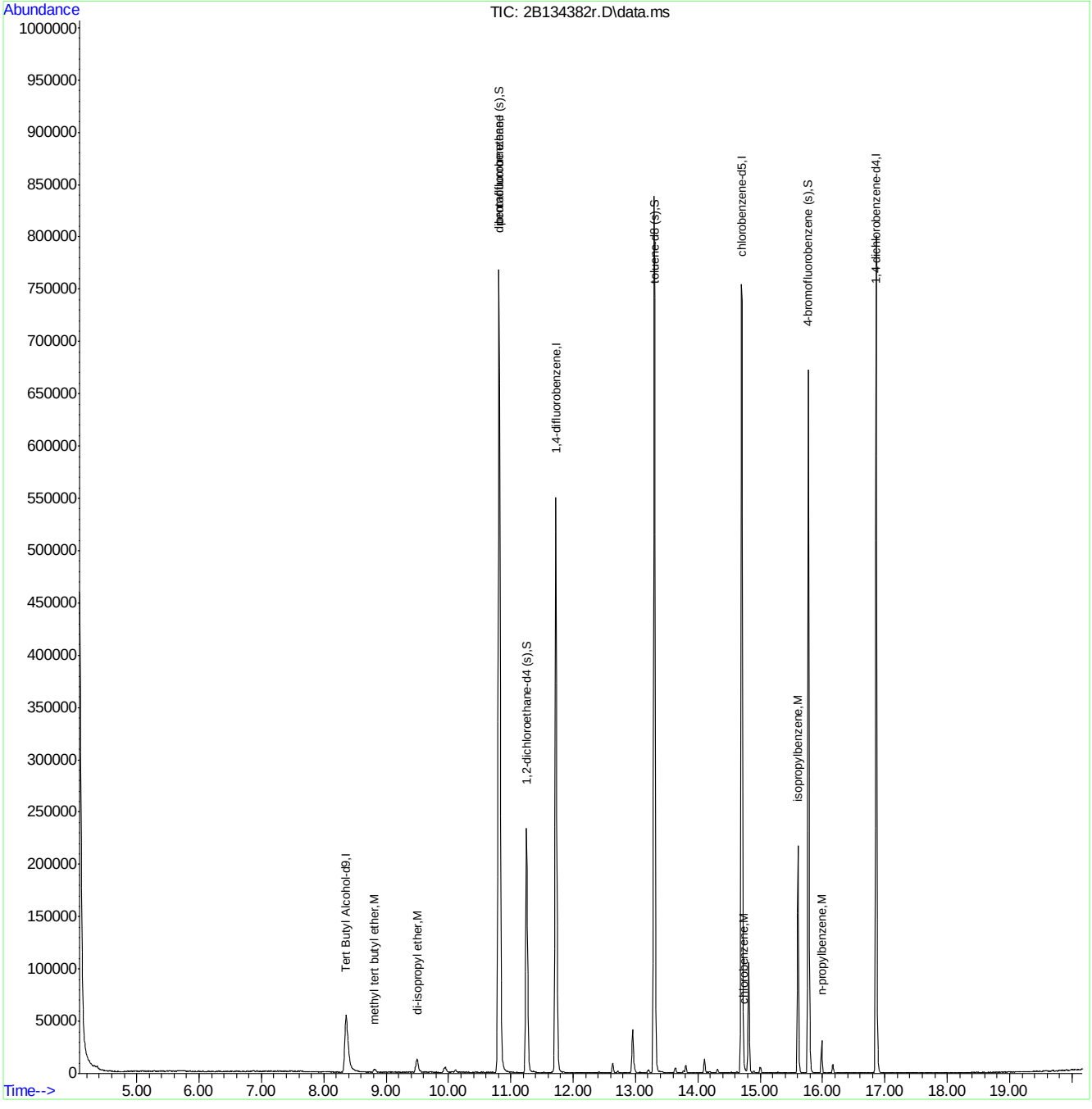
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	110758	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	477248	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	461917	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	385004	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	196738	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	163059	51.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.00%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	182757	56.09	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.18%			
82) toluene-d8 (s)	13.302	98	516725	52.53	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.06%			
108) 4-bromofluorobenzene (s)	15.771	95	176230	53.37	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 106.74%			
Target Compounds						Qvalue
34) methyl tert butyl ether	8.814	73	3988	0.63	ug/L	90
36) di-isopropyl ether	9.495	45	13602	1.76	ug/L	91
98) chlorobenzene	14.733	112	1532	0.27	ug/L	93
107) isopropylbenzene	15.609	105	123926	13.92	ug/L	96
114) n-propylbenzene	15.986	91	21976	2.31	ug/L	96

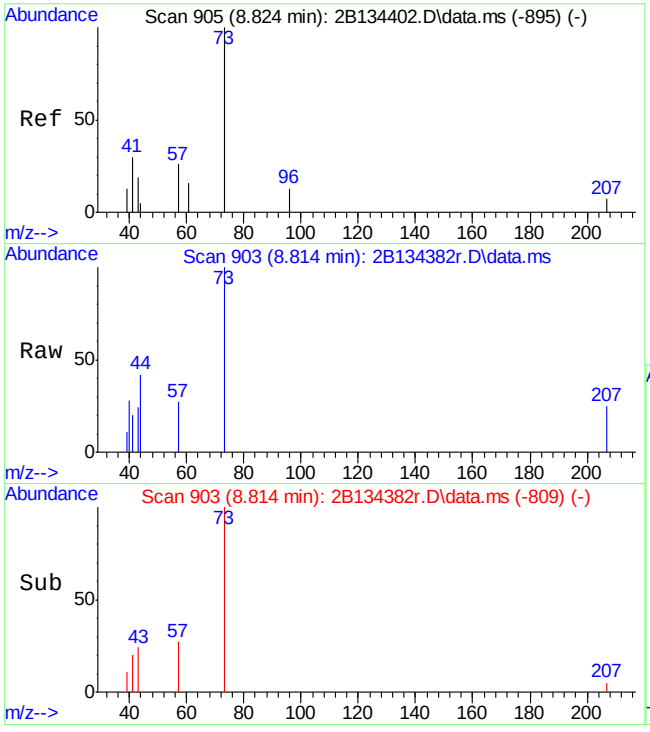
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134382r.D
Acq On : 12 Sep 2015 2:43 am
Operator : BridgetK
Sample : jc3254-26R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 19 18:23:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

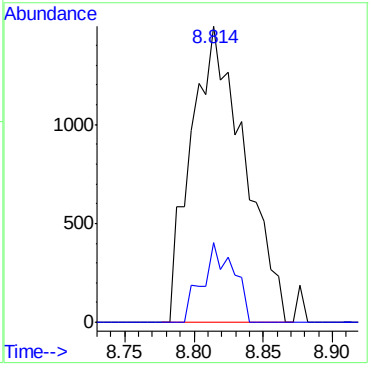


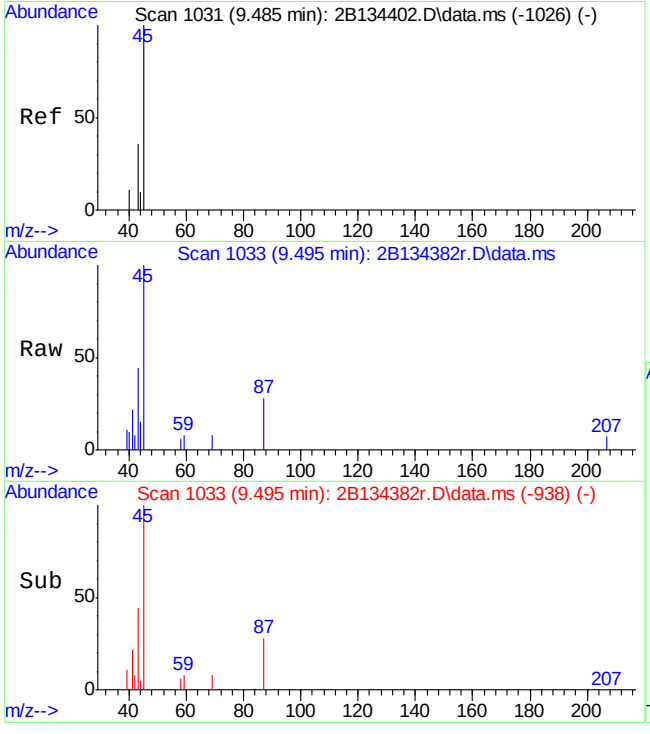


#34
methyl tert butyl ether
Concen: 0.63 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134382r.D
Acq: 12 Sep 2015 2:43 am

Tgt Ion: 73 Resp: 3988

Ion	Ratio	Lower	Upper
73	100		
57	26.8	0.0	52.0

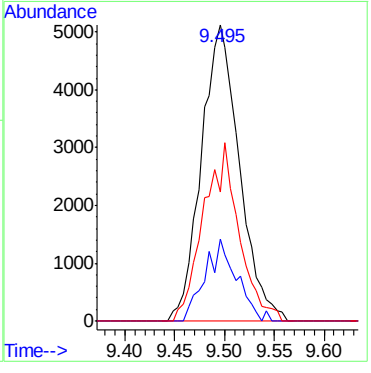


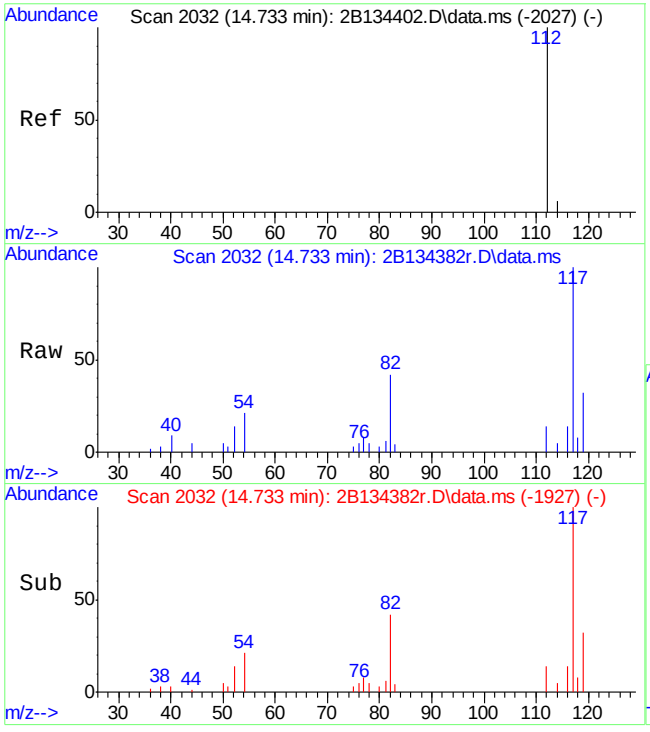


#36
di-isopropyl ether
Concen: 1.76 ug/L
RT: 9.495 min Scan# 1033
Delta R.T. 0.000 min
Lab File: 2B134382r.D
Acq: 12 Sep 2015 2:43 am

Tgt Ion: 45 Resp: 13602

Ion	Ratio	Lower	Upper
45	100		
87	27.6	0.0	55.3
43	43.7	21.6	81.6

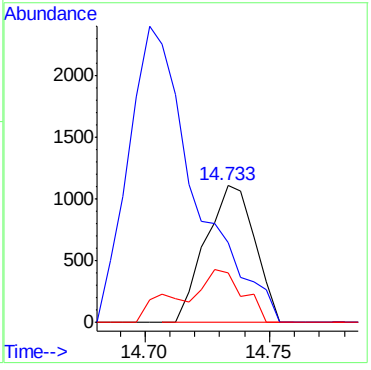


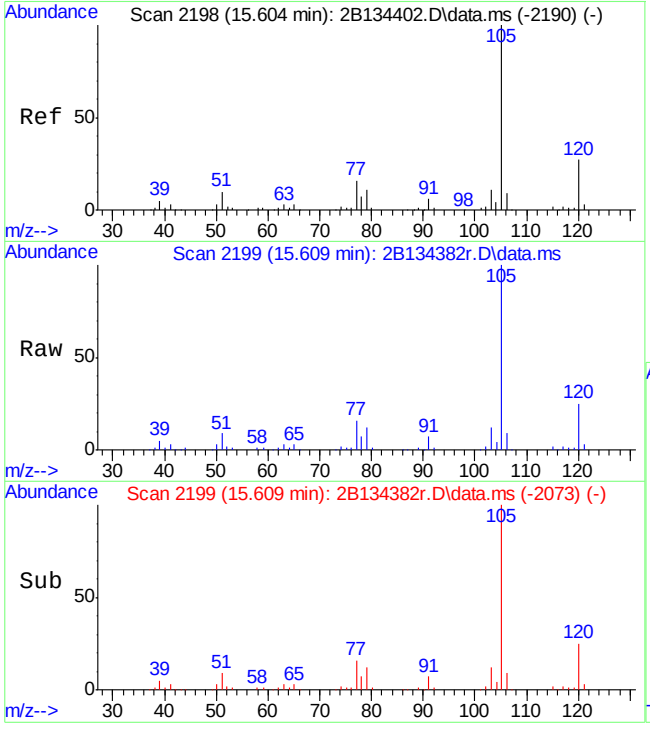


#98
chlorobenzene
Concen: 0.27 ug/L
RT: 14.733 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 2B134382r.D
Acq: 12 Sep 2015 2:43 am

Tgt Ion:112 Resp: 1532

Ion	Ratio	Lower	Upper
112	100		
77	58.4	23.5	83.5
114	36.0	1.6	61.6

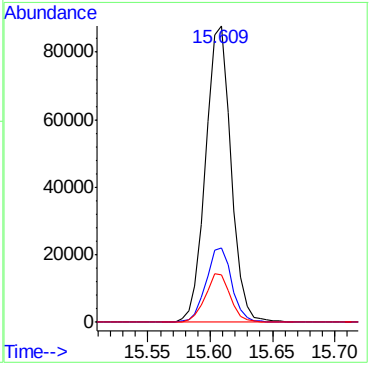


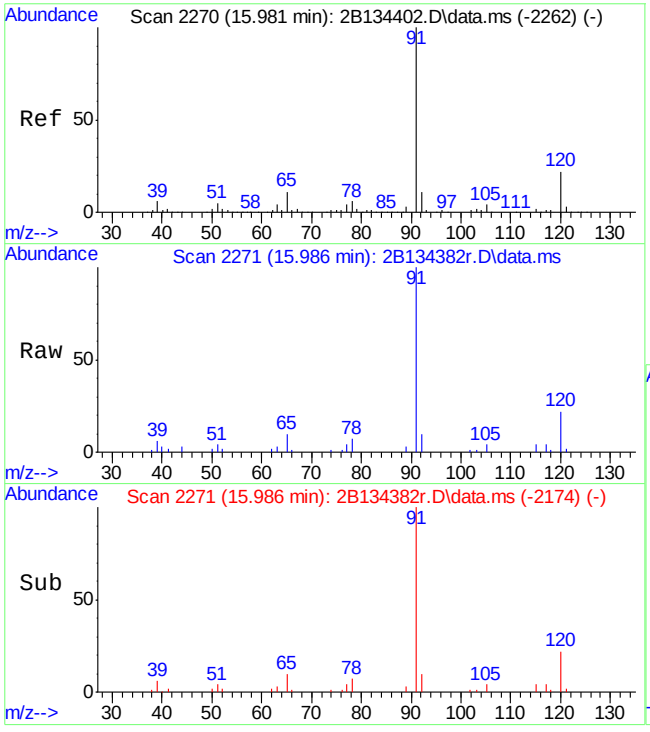


#107
isopropylbenzene
Concen: 13.92 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134382r.D
Acq: 12 Sep 2015 2:43 am

Tgt Ion:105 Resp: 123926

Ion	Ratio	Lower	Upper
105	100		
120	25.0	0.0	56.6
77	15.9	0.0	43.7

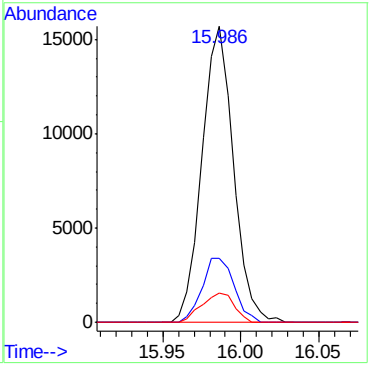




#114
n-propylbenzene
Concen: 2.31 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. 0.000 min
Lab File: 2B134382r.D
Acq: 12 Sep 2015 2:43 am

Tgt Ion: 91 Resp: 21976

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.0	54.2
65	9.9	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134383r.D
Acq On : 12 Sep 2015 3:11 am
Operator : BridgetK
Sample : jc3254-27R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 19 18:25:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

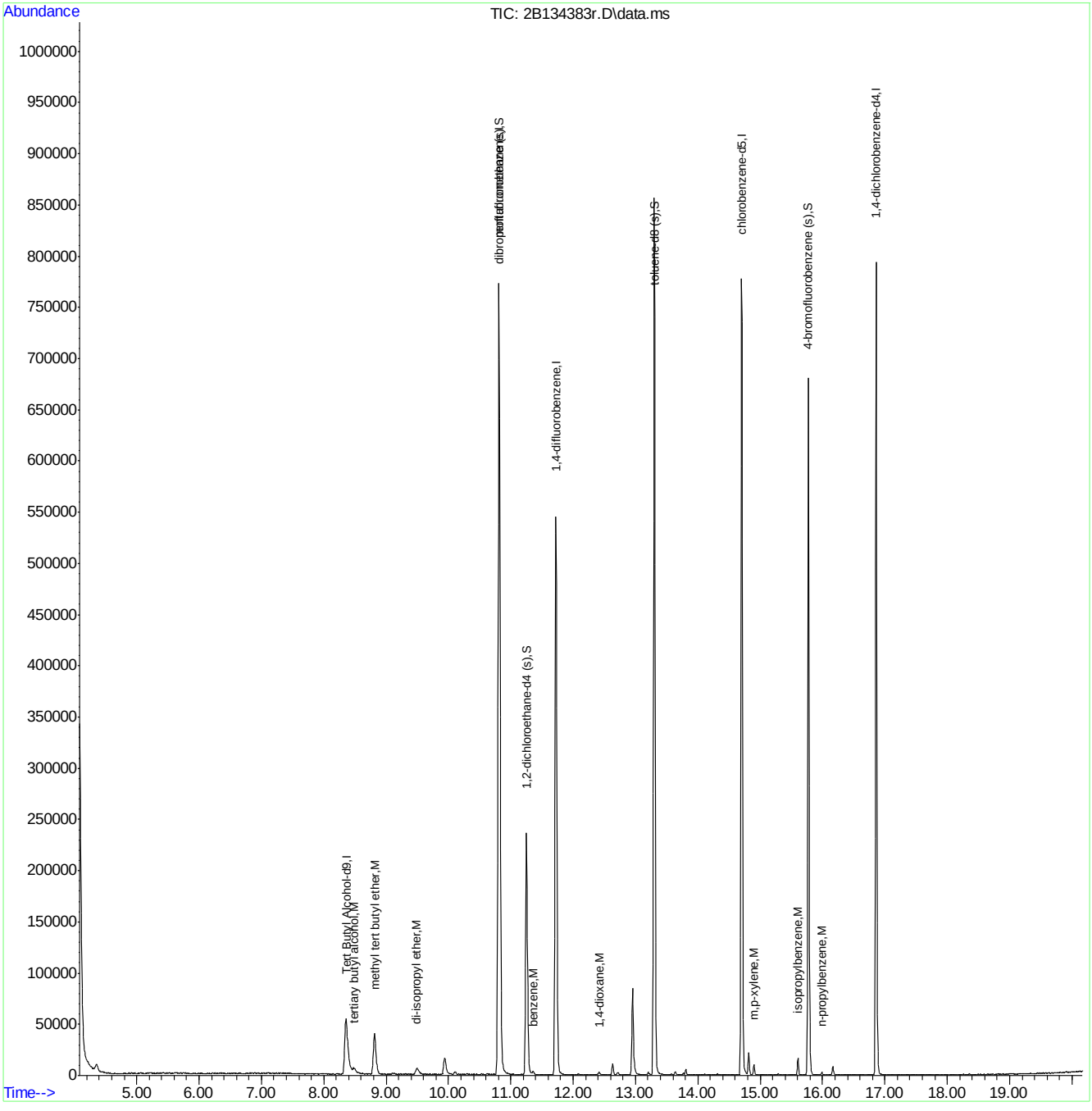
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	110566	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	476880	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	462406	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	385736	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	197487	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	163957	51.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.66%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	181824	55.85	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.70%			
82) toluene-d8 (s)	13.302	98	520778	52.89	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.78%			
108) 4-bromofluorobenzene (s)	15.771	95	175889	53.06	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 106.12%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.478	59	8635	33.50	ug/L	83
4) 1,4-dioxane	12.416	88	2103	92.53	ug/L	91
34) methyl tert butyl ether	8.819	73	53479	8.42	ug/L	100
36) di-isopropyl ether	9.490	45	5698	0.74	ug/L	92
66) benzene	11.362	78	2544	0.30	ug/L	93
101) m,p-xylene	14.901	106	2761	0.75	ug/L	95
107) isopropylbenzene	15.609	105	10137	1.13	ug/L	95
114) n-propylbenzene	15.986	91	2581	0.27	ug/L	98

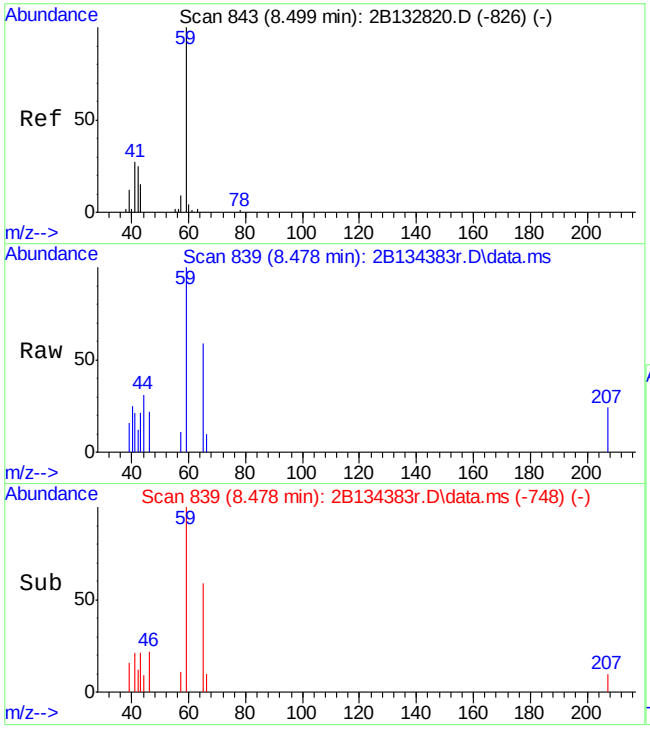
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134383r.D
Acq On : 12 Sep 2015 3:11 am
Operator : BridgetK
Sample : jc3254-27R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 19 18:25:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

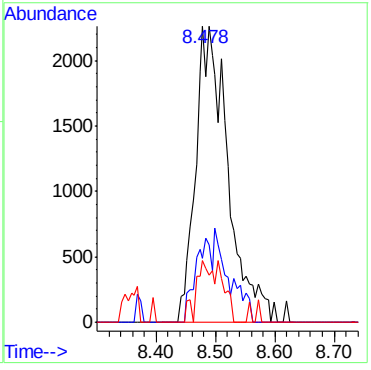


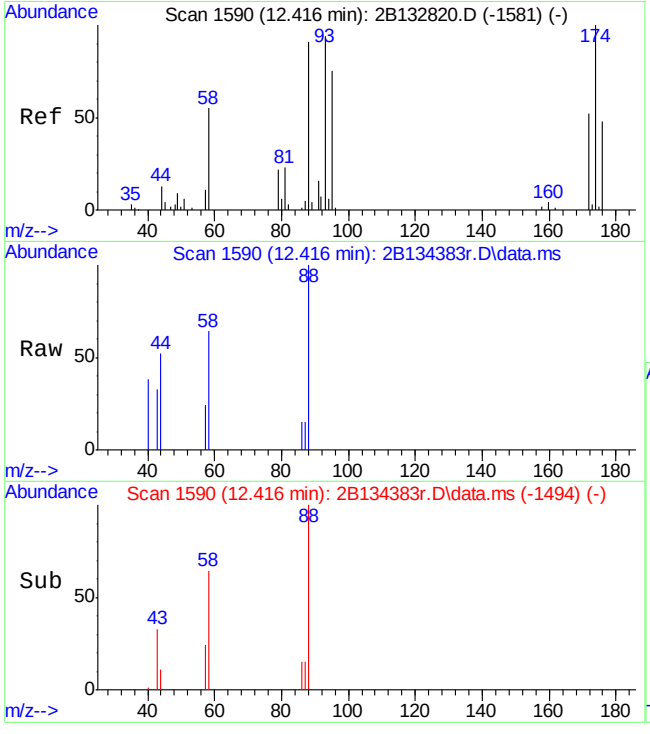


#2
tertiary butyl alcohol
Concen: 33.50 ug/L
RT: 8.478 min Scan# 839
Delta R.T. -0.021 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 59 Resp: 8635

Ion	Ratio	Lower	Upper
59	100		
41	21.5	4.6	64.6
43	20.7	0.0	48.1

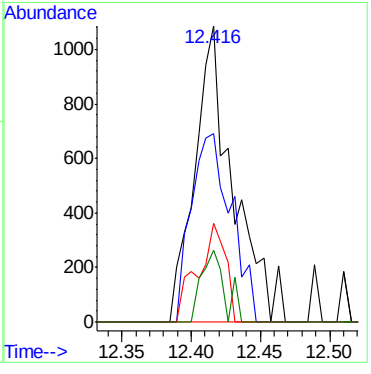


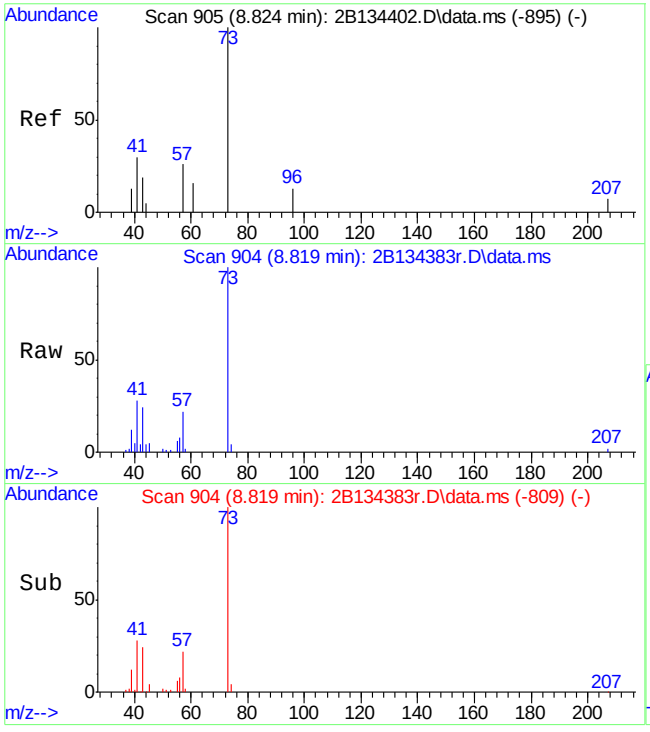


#4
1,4-dioxane
Concen: 92.53 ug/L
RT: 12.416 min Scan# 1590
Delta R.T. 0.001 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 88 Resp: 2103

Ion	Ratio	Lower	Upper
88	100		
58	63.8	29.7	89.7
43	33.3	12.4	72.4
57	24.2	0.0	49.6

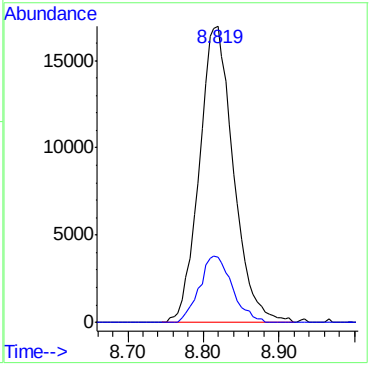


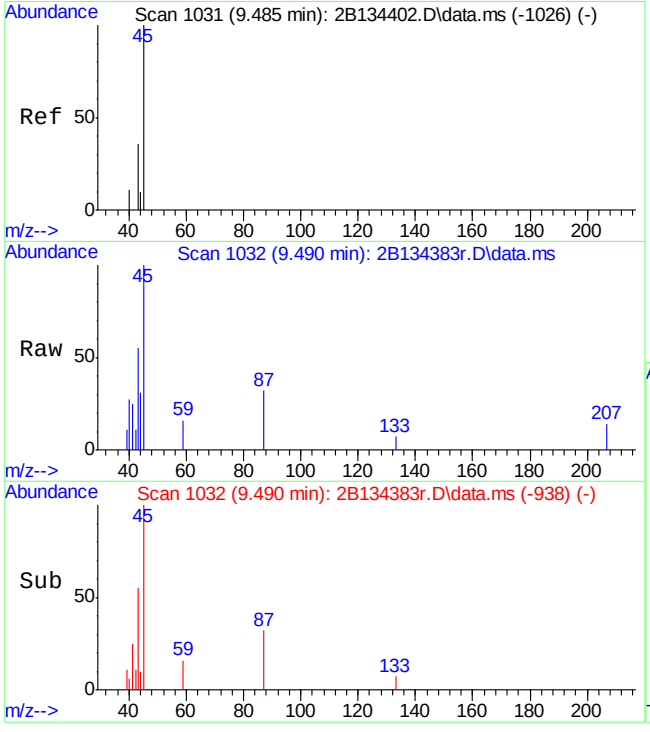


#34
methyl tert butyl ether
Concen: 8.42 ug/L
RT: 8.819 min Scan# 904
Delta R.T. 0.000 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 73 Resp: 53479

Ion	Ratio	Lower	Upper
73	100		
57	22.2	0.0	52.0

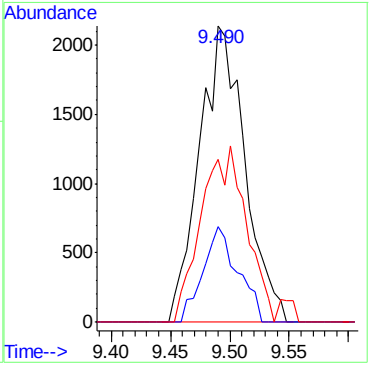


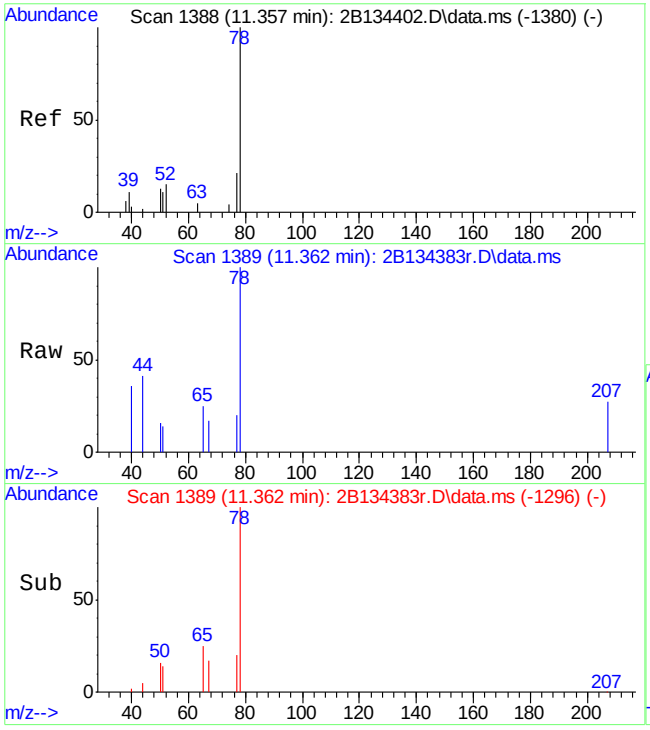


#36
di-isopropyl ether
Concen: 0.74 ug/L
RT: 9.490 min Scan# 1032
Delta R.T. -0.005 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 45 Resp: 5698

Ion	Ratio	Lower	Upper
45	100		
87	32.2	0.0	55.3
43	55.1	21.6	81.6

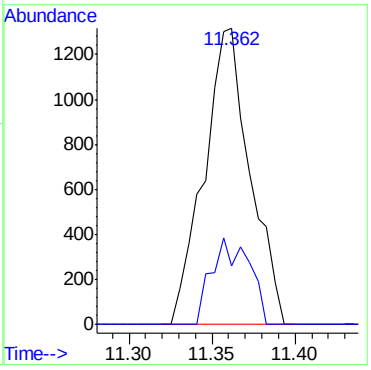


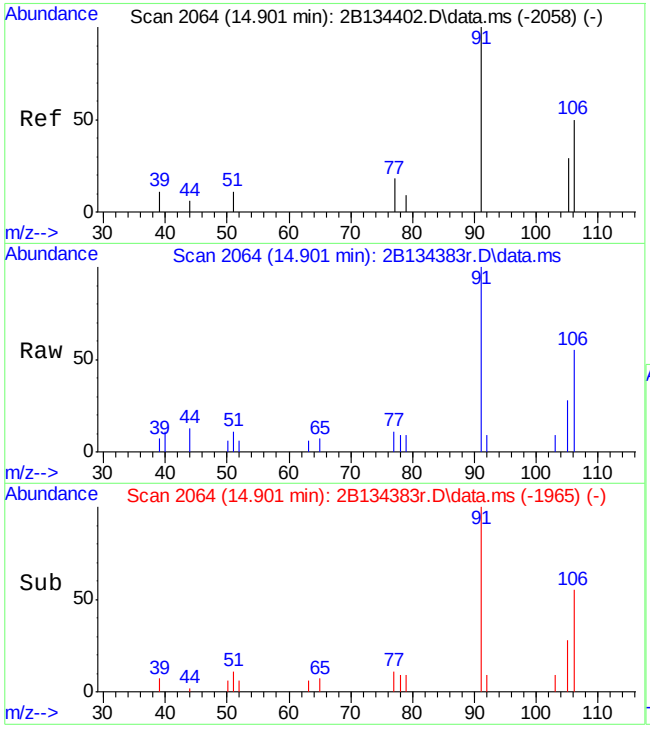


#66
benzene
Concen: 0.30 ug/L
RT: 11.362 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 78 Resp: 2544

Ion	Ratio	Lower	Upper
78	100		
77	19.7	0.0	53.4

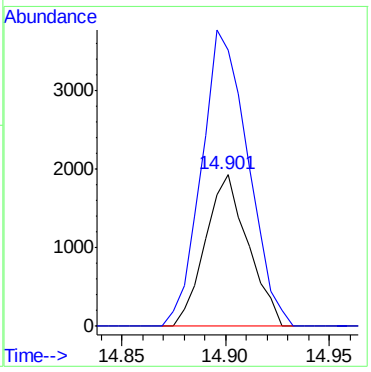


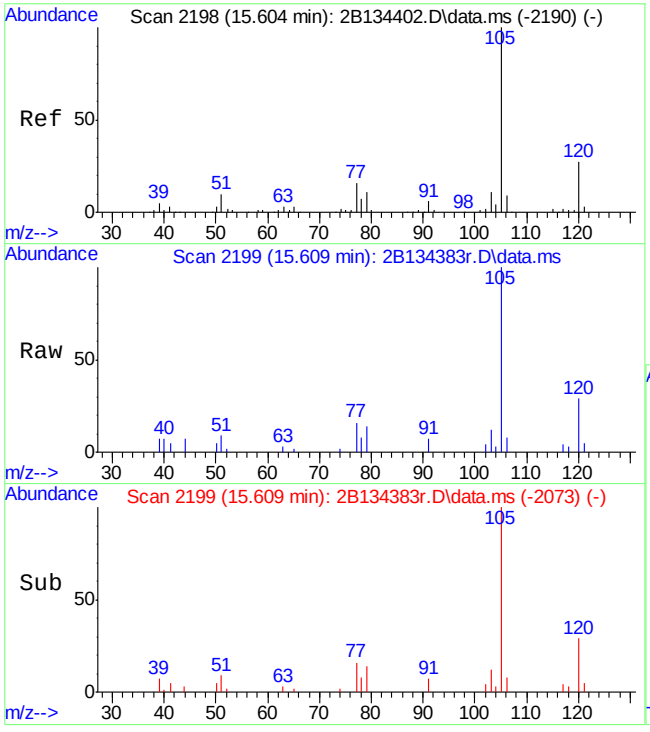


#101
m,p-xylene
Concen: 0.75 ug/L
RT: 14.901 min Scan# 2064
Delta R.T. 0.000 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion:106 Resp: 2761

Ion	Ratio	Lower	Upper
106	100		
91	182.1	159.7	219.7

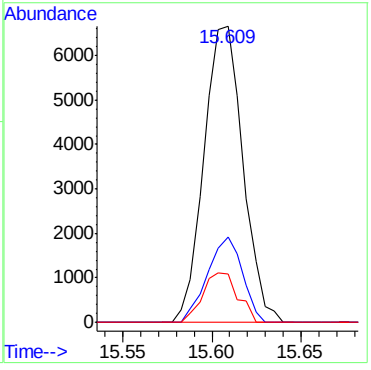


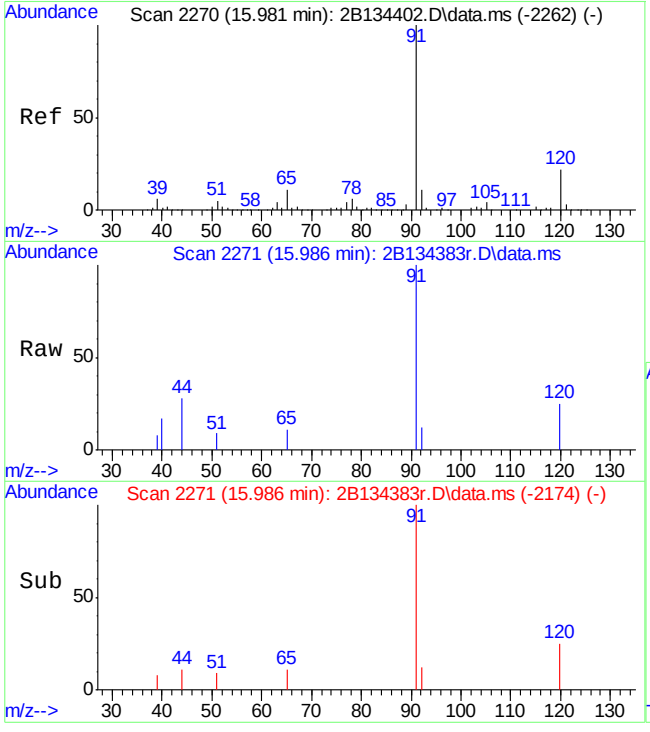


#107
isopropylbenzene
Concen: 1.13 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. 0.000 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion:105 Resp: 10137

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	56.6
77	16.4	0.0	43.7

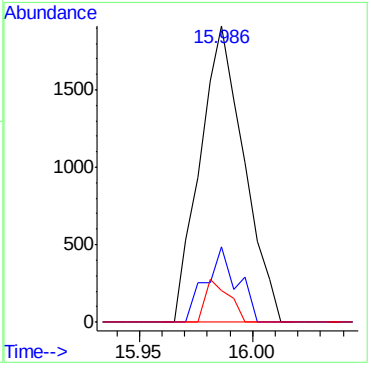




#114
n-propylbenzene
Concen: 0.27 ug/L
RT: 15.986 min Scan# 2271
Delta R.T. 0.000 min
Lab File: 2B134383r.D
Acq: 12 Sep 2015 3:11 am

Tgt Ion: 91 Resp: 2581

Ion	Ratio	Lower	Upper
91	100		
120	25.3	0.0	54.2
65	10.7	0.0	39.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134477r.D
Acq On : 15 Sep 2015 1:15 pm
Operator : BridgetK
Sample : jc3254-28R
Misc : ms90889,v2B5992,w,,,,200
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 21 14:50:15 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

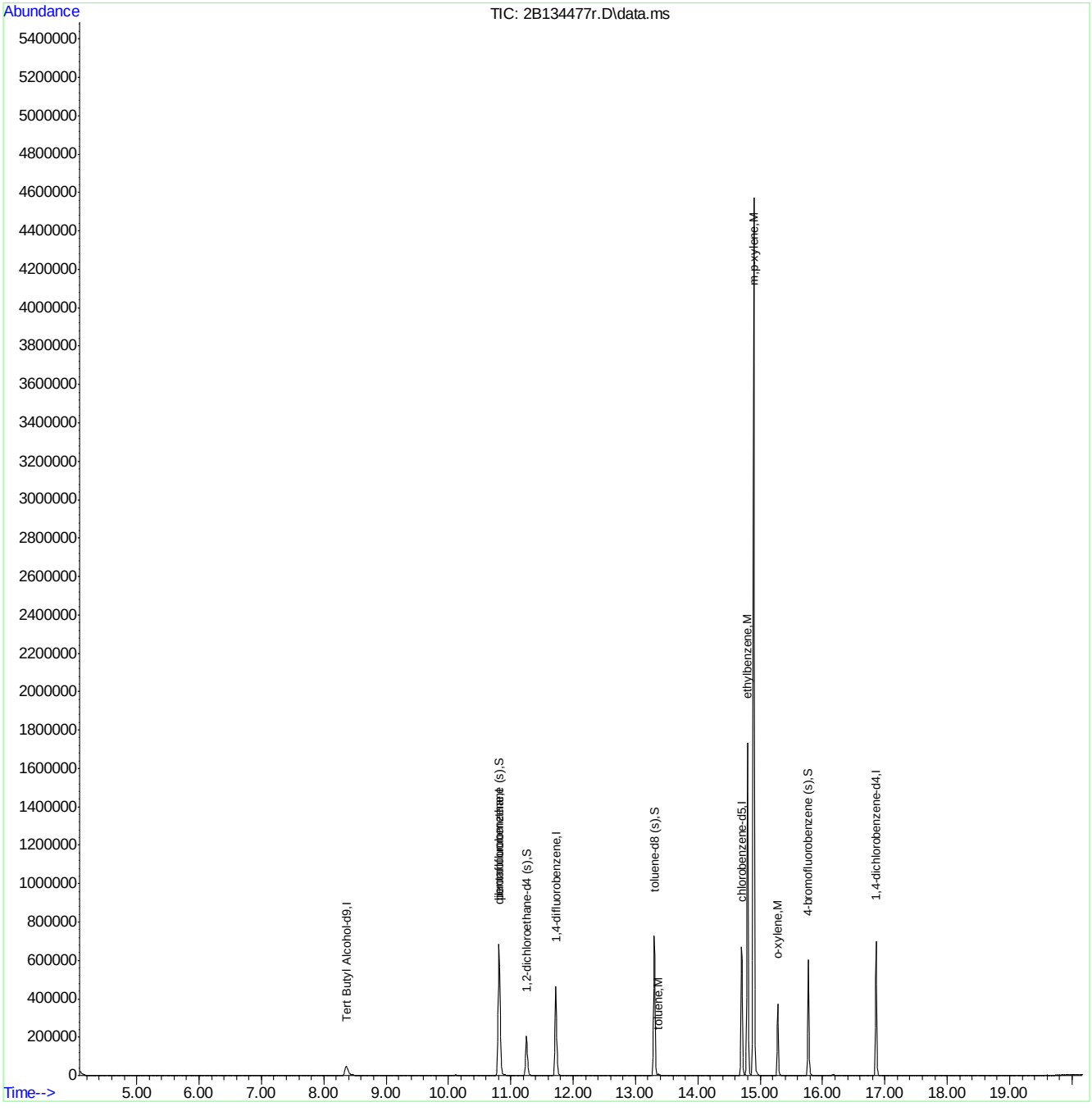
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	94009	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	417178	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	392956	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	323706	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	175433	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	143336	51.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.58%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	161082	56.56	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.12%			
82) toluene-d8 (s)	13.302	98	440570	52.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.30%			
108) 4-bromofluorobenzene (s)	15.771	95	150818	51.22	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.44%			
Target Compounds						Qvalue
84) toluene	13.370	92	2205	0.48	ug/L	80
100) ethylbenzene	14.796	91	1091084	140.80	ug/L	99
101) m,p-xylene	14.896	106	1226101	398.98	ug/L	97
102) o-xylene	15.284	106	88889	27.48	ug/L	88

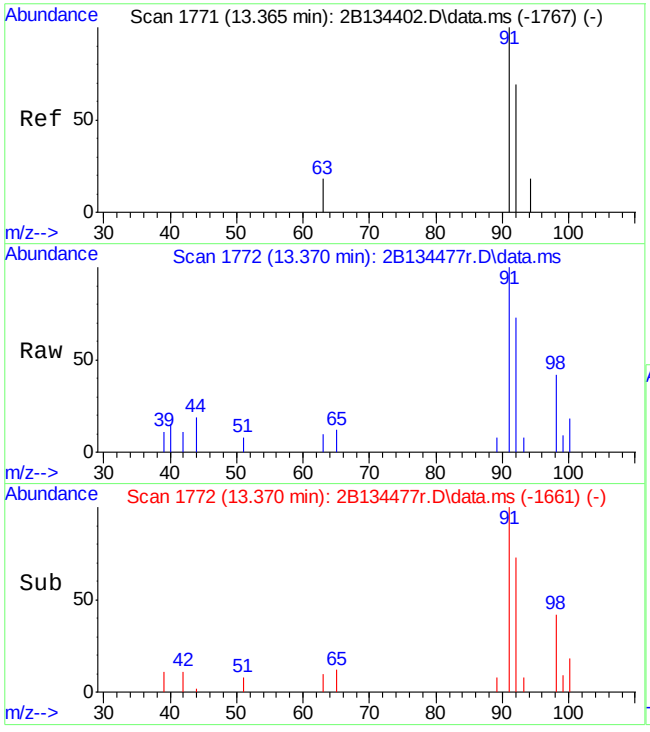
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134477r.D
Acq On : 15 Sep 2015 1:15 pm
Operator : BridgetK
Sample : jc3254-28R
Misc : ms90889,v2B5992,w,,,,200
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 21 14:50:15 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

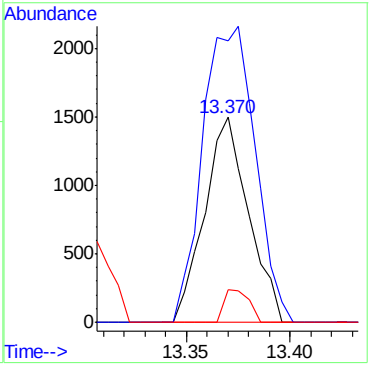


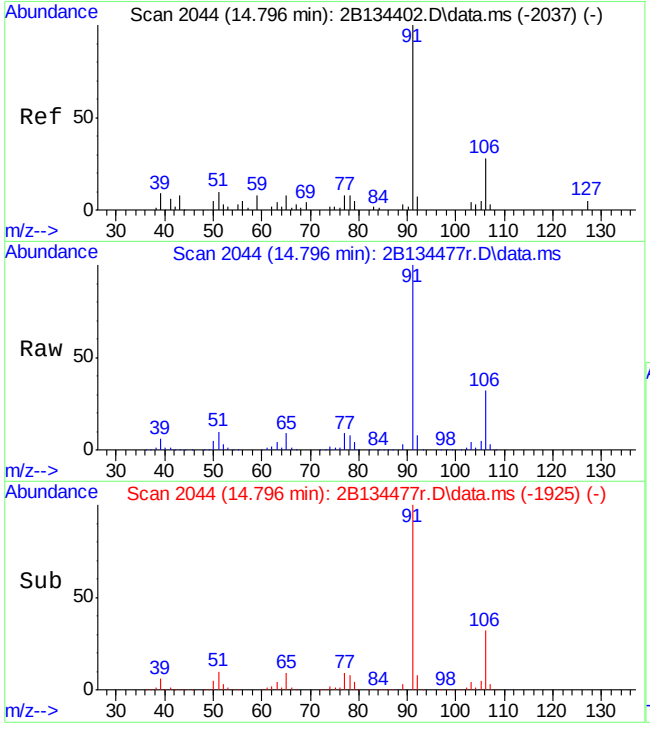


#84
toluene
Concen: 0.48 ug/L
RT: 13.370 min Scan# 1772
Delta R.T. 0.000 min
Lab File: 2B134477r.D
Acq: 15 Sep 2015 1:15 pm

Tgt Ion: 92 Resp: 2205

Ion	Ratio	Lower	Upper
92	100		
91	137.6	137.1	197.1
65	16.1	0.0	48.1

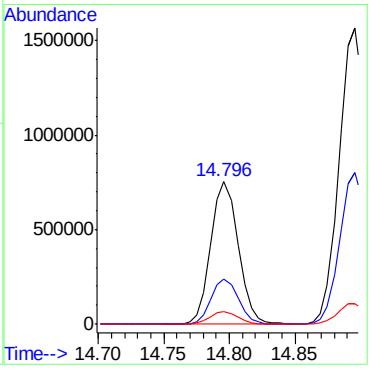


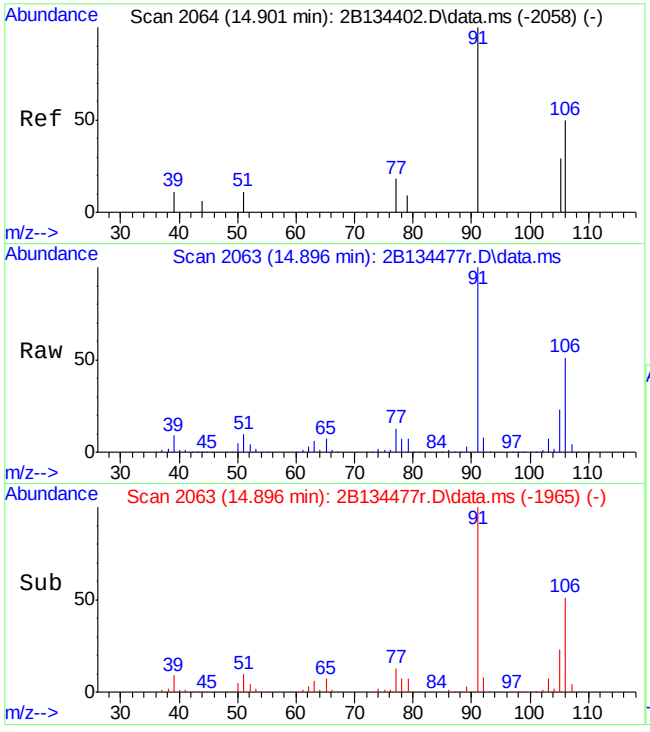


#100
ethylbenzene
Concen: 140.80 ug/L
RT: 14.796 min Scan# 2044
Delta R.T. -0.005 min
Lab File: 2B134477r.D
Acq: 15 Sep 2015 1:15 pm

Tgt Ion: 91 Resp: 1091084

Ion	Ratio	Lower	Upper
91	100		
106	31.8	2.4	62.4
65	9.1	0.0	38.1

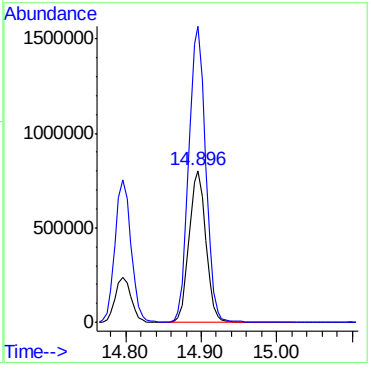


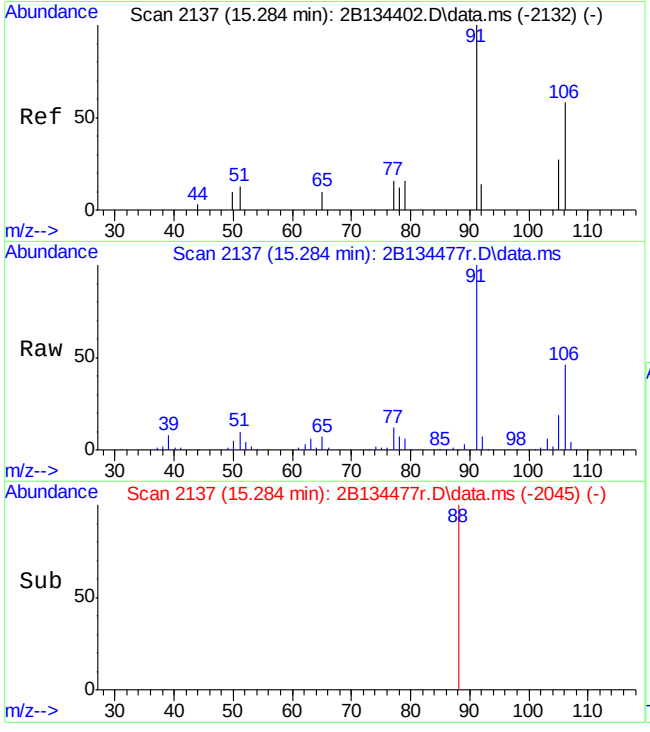


#101
m,p-xylene
Concen: 398.98 ug/L
RT: 14.896 min Scan# 2063
Delta R.T. -0.005 min
Lab File: 2B134477r.D
Acq: 15 Sep 2015 1:15 pm

Tgt Ion:106 Resp: 1226101

Ion	Ratio	Lower	Upper
106	100		
91	194.8	159.7	219.7

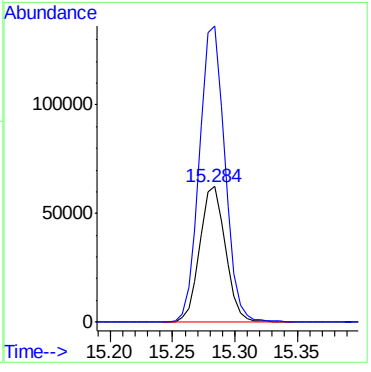




#102
o-xylene
Concen: 27.48 ug/L
RT: 15.284 min Scan# 2137
Delta R.T. 0.001 min
Lab File: 2B134477r.D
Acq: 15 Sep 2015 1:15 pm

Tgt Ion:106 Resp: 88889

Ion	Ratio	Lower	Upper
106	100		
91	218.7	170.1	230.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134386r.D
Acq On : 12 Sep 2015 4:37 am
Operator : BridgetK
Sample : jc3254-29R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 19 18:30:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

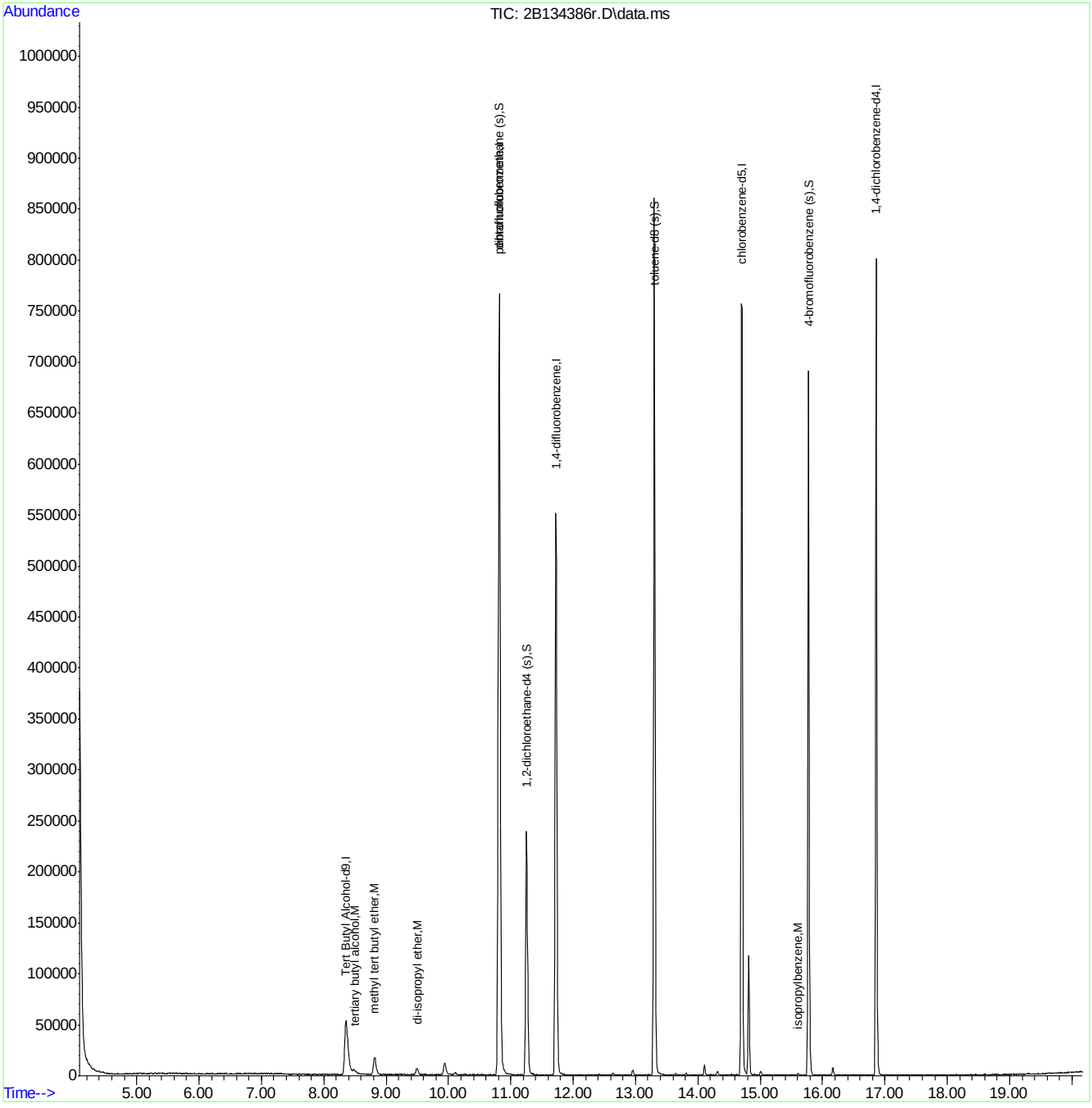
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	109580	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	476443	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	461292	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	383716	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	196173	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	164603	52.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.16%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	186214	57.25	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.50%			
82) toluene-d8 (s)	13.302	98	521093	53.05	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.10%			
108) 4-bromofluorobenzene (s)	15.776	95	172638	52.43	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.86%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	4710	18.44	ug/L	86
34) methyl tert butyl ether	8.814	73	22427	3.53	ug/L	100
36) di-isopropyl ether	9.495	45	6271	0.81	ug/L	94
107) isopropylbenzene	15.609	105	1432	0.16	ug/L	92

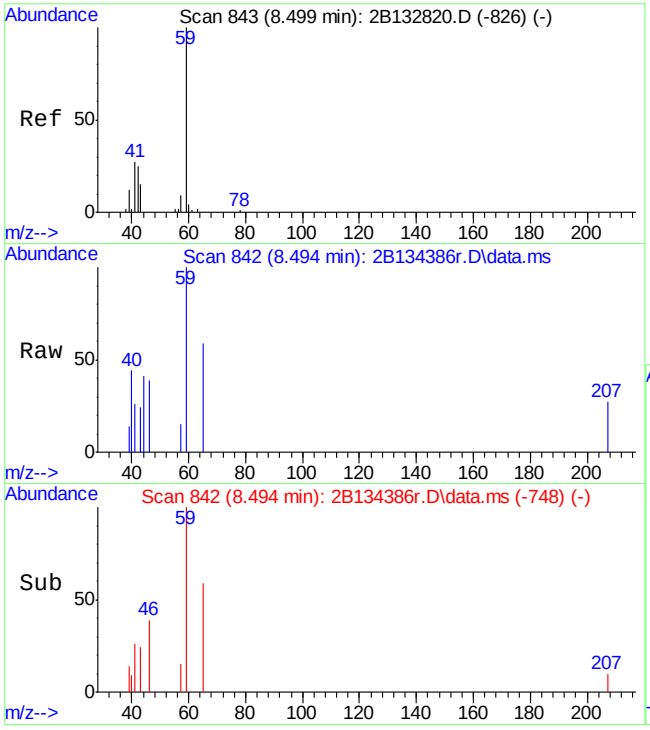
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134386r.D
Acq On : 12 Sep 2015 4:37 am
Operator : BridgetK
Sample : jc3254-29R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 19 18:30:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

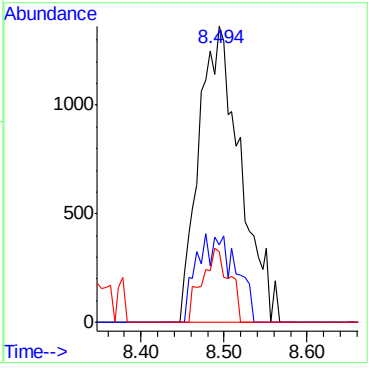


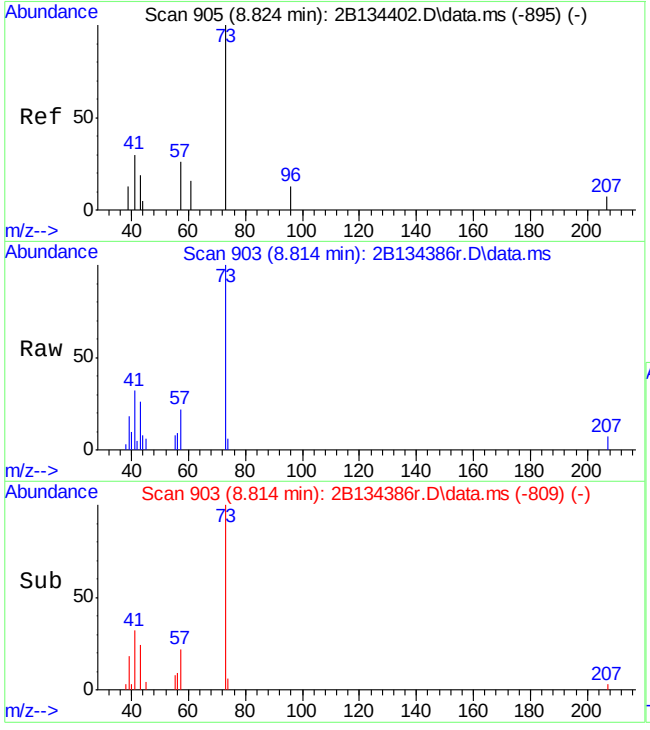


#2
tertiary butyl alcohol
Concen: 18.44 ug/L
RT: 8.494 min Scan# 842
Delta R.T. -0.005 min
Lab File: 2B134386r.D
Acq: 12 Sep 2015 4:37 am

Tgt Ion: 59 Resp: 4710

Ion	Ratio	Lower	Upper
59	100		
41	26.2	4.6	64.6
43	24.0	0.0	48.1

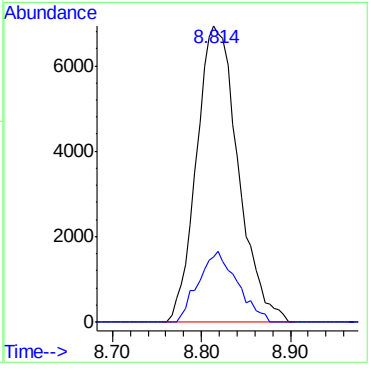


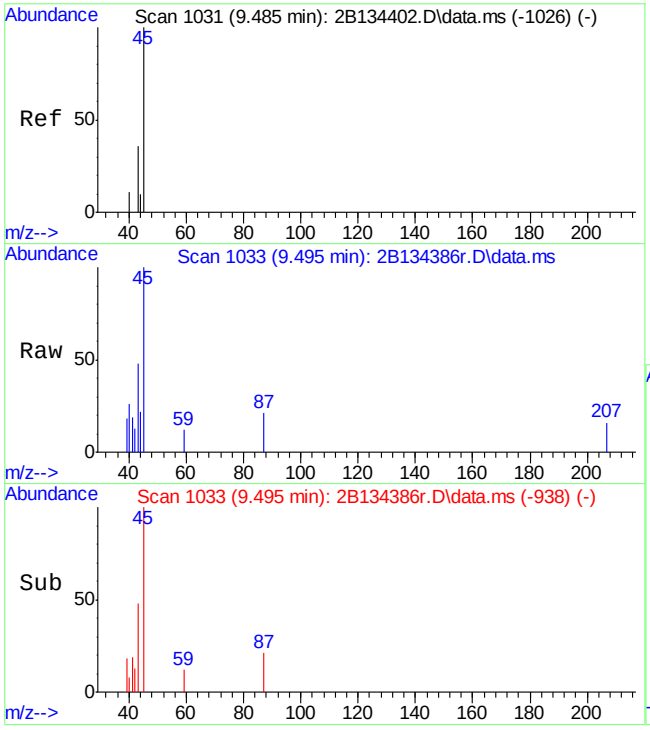


#34
methyl tert butyl ether
Concen: 3.53 ug/L
RT: 8.814 min Scan# 903
Delta R.T. -0.005 min
Lab File: 2B134386r.D
Acq: 12 Sep 2015 4:37 am

Tgt Ion: 73 Resp: 22427

Ion	Ratio	Lower	Upper
73	100		
57	21.9	0.0	52.0

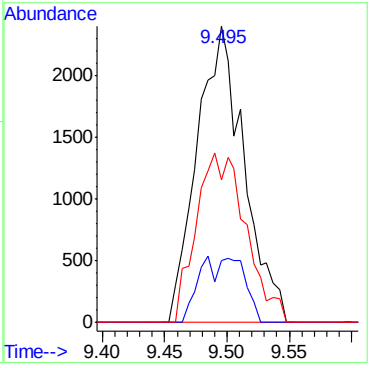


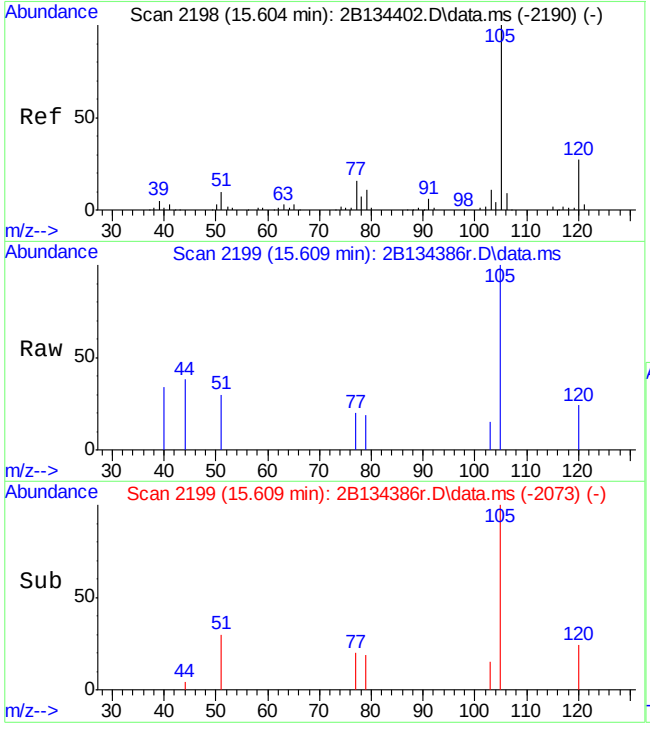


#36
di-isopropyl ether
Concen: 0.81 ug/L
RT: 9.495 min Scan# 1033
Delta R.T. -0.000 min
Lab File: 2B134386r.D
Acq: 12 Sep 2015 4:37 am

Tgt Ion: 45 Resp: 6271

Ion	Ratio	Lower	Upper
45	100		
87	20.8	0.0	55.3
43	48.3	21.6	81.6

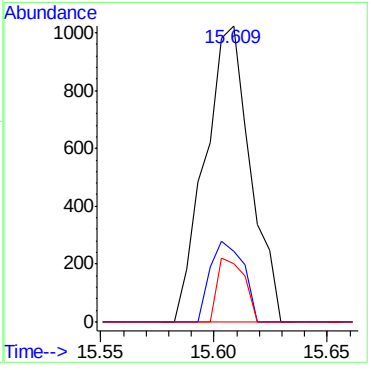




#107
isopropylbenzene
Concen: 0.16 ug/L
RT: 15.609 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 2B134386r.D
Acq: 12 Sep 2015 4:37 am

Tgt Ion:105 Resp: 1432

Ion	Ratio	Lower	Upper
105	100		
120	24.0	0.0	56.6
77	19.8	0.0	43.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134387r.D
Acq On : 12 Sep 2015 5:06 am
Operator : BridgetK
Sample : jc3254-30R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 19 18:32:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

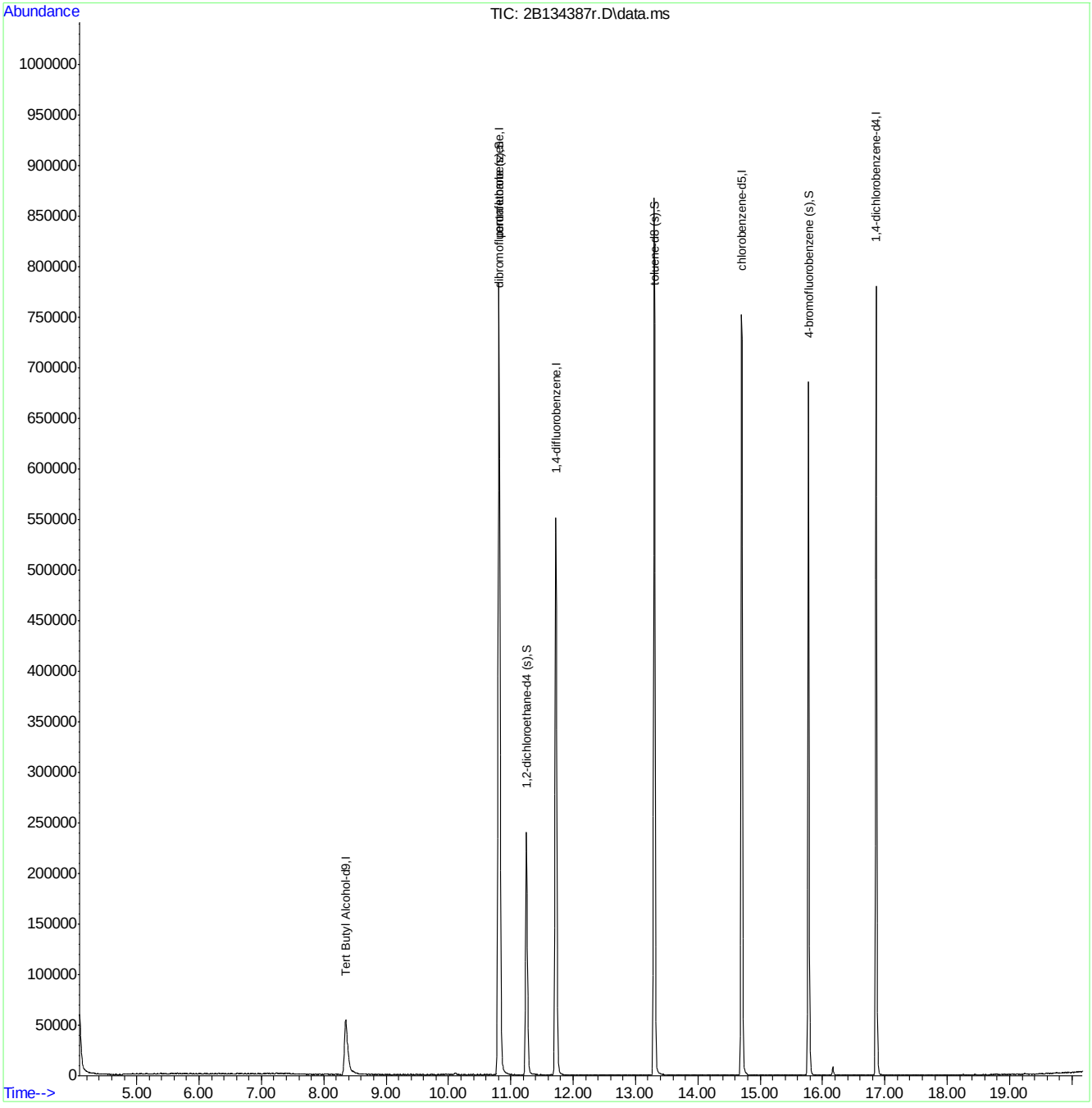
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.352	65	107026	500.00	ug/L	-0.02
5) pentafluorobenzene	10.811	168	473559	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	462191	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	376906	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	192023	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	164633	52.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.82%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	184534	57.08	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.16%			
82) toluene-d8 (s)	13.302	98	515202	52.34	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.68%			
108) 4-bromofluorobenzene (s)	15.777	95	170447	52.88	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.76%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134387r.D
Acq On : 12 Sep 2015 5:06 am
Operator : BridgetK
Sample : jc3254-30R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 19 18:32:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Sat Dec 19 18:41:19 2015 ACC-VOA-CLN-05A Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134388r.D
Acq On : 12 Sep 2015 5:35 am
Operator : BridgetK
Sample : jc3254-31R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 19 18:32:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	108134	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	481173	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	469698	50.00	ug/L	0.00
90) chlorobenzene-d5	14.707	117	383346	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	193974	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	168886	52.91	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.82%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	188160	57.28	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.56%			
82) toluene-d8 (s)	13.302	98	522350	52.22	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.44%			
108) 4-bromofluorobenzene (s)	15.777	95	171821	52.77	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.54%			

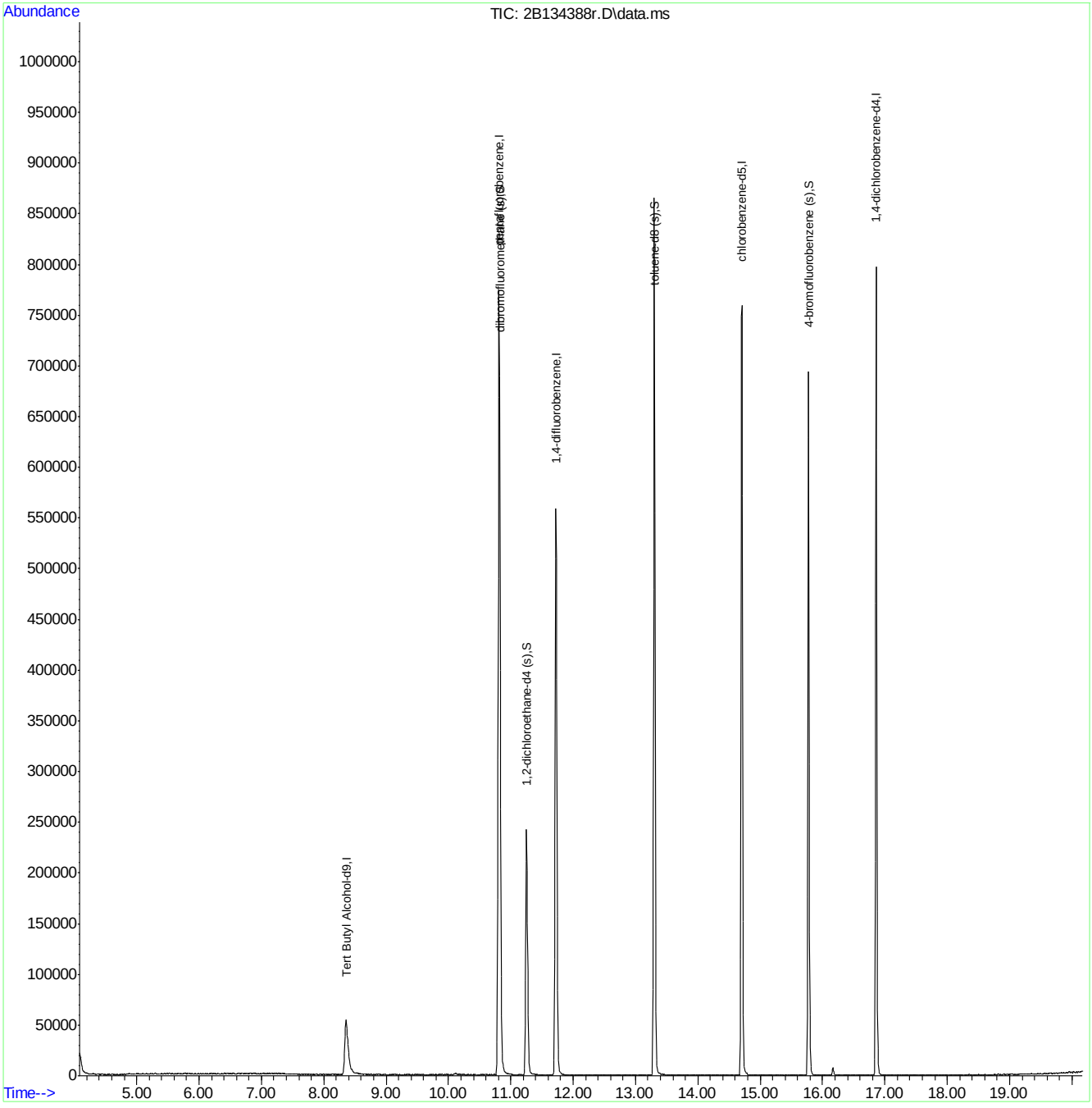
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134388r.D
Acq On : 12 Sep 2015 5:35 am
Operator : BridgetK
Sample : jc3254-31R
Misc : ms90889,v2B5988,w,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 19 18:32:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147885.D
Acq On : 9 Sep 2015 10:54 am
Operator : BridgetK
Sample : mb
Misc : ms90541,v2d6208,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 09:46:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.570	65	85435	500.00	ug/L	-0.01
5) pentafluorobenzene	10.301	168	388746	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.455	114	440634	50.00	ug/L	0.00
78) chlorobenzene-d5	15.660	117	424923	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	18.417	152	235200	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.317	113	145967	53.48	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 106.96%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	150544	53.26	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.52%			
70) toluene-d8 (s)	13.646	98	531396	55.43	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 110.86%			
95) 4-bromofluorobenzene (s)	17.143	95	208999	56.08	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.16%			

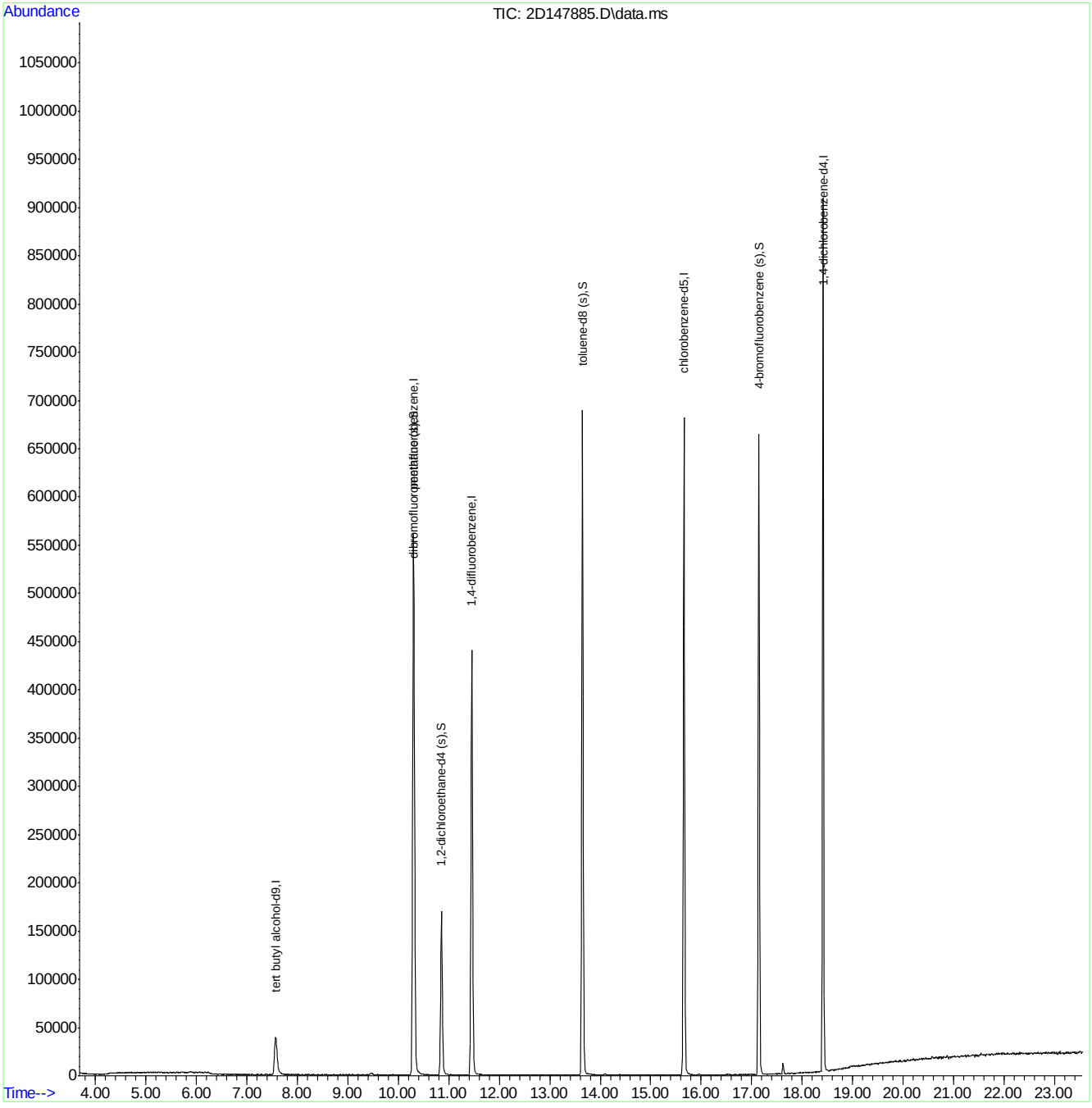
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147885.D
Acq On : 9 Sep 2015 10:54 am
Operator : BridgetK
Sample : mb
Misc : ms90541,v2d6208,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 09:46:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134300.D
Acq On : 10 Sep 2015 10:40 am
Operator : BridgetK
Sample : mb
Misc : ms90877,v2B5985,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:39:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	119549	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	543313	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	553335	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	464401	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	236857	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	194089	53.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 107.70%			
52) 1,2-dichloroethane-d4 (s)	11.257	65	194849	52.53	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 105.06%			
82) toluene-d8 (s)	13.302	98	621400	52.73	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.46%			
108) 4-bromofluorobenzene (s)	15.777	95	202116	50.84	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 101.68%			

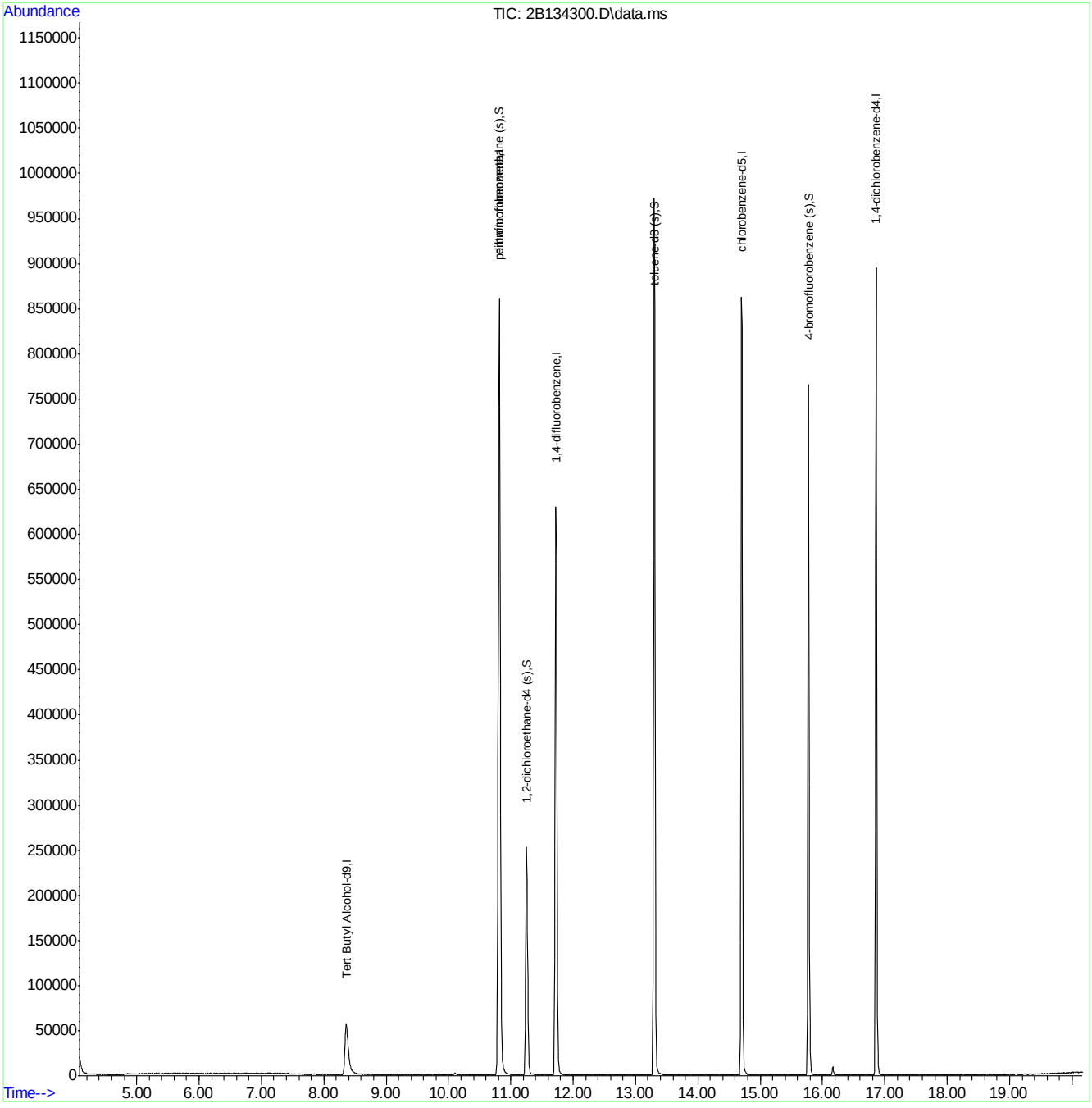
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134300.D
Acq On : 10 Sep 2015 10:40 am
Operator : BridgetK
Sample : mb
Misc : ms90877,v2B5985,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:39:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134375.D
Acq On : 11 Sep 2015 11:24 pm
Operator : BridgetK
Sample : mb
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 17 10:47:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.357	65	110749	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	488557	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	476287	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	391071	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	198416	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.816	113	167854	51.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.58%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	187624	56.25	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.50%			
82) toluene-d8 (s)	13.302	98	530086	52.26	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.52%			
108) 4-bromofluorobenzene (s)	15.776	95	176138	52.89	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.78%			

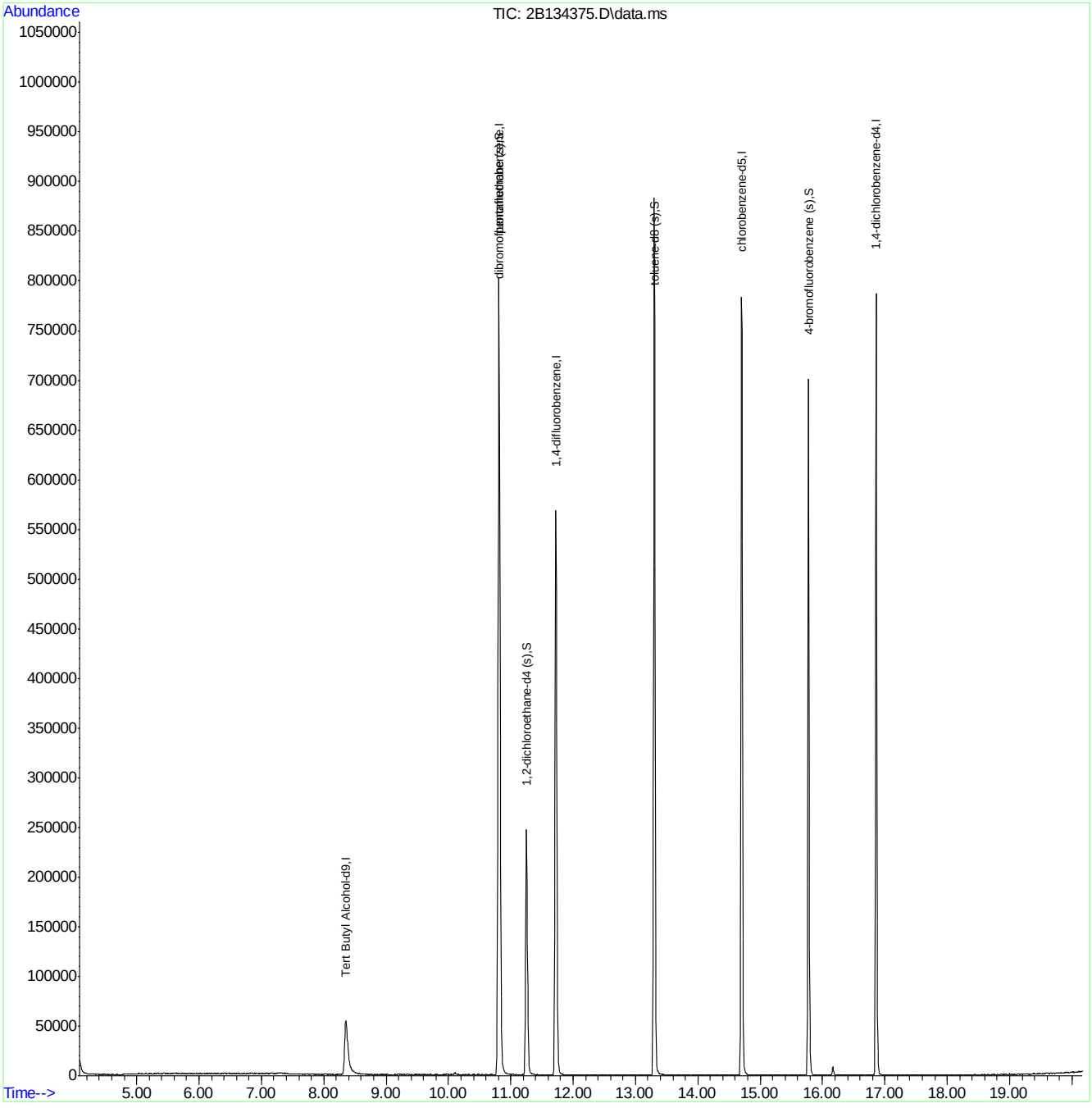
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134375.D
Acq On : 11 Sep 2015 11:24 pm
Operator : BridgetK
Sample : mb
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 17 10:47:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Thu Sep 17 11:32:20 2015 ACC-VOA-CLN-05A

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134397.D
Acq On : 12 Sep 2015 10:36 am
Operator : BridgetK
Sample : mb
Misc : ms90710,v2B5989,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 12:02:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	105371	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	469957	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	460319	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	374848	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	191313	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	168295	53.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 107.96%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	186277	58.06	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 116.12%			
82) toluene-d8 (s)	13.302	98	509172	51.94	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.88%			
108) 4-bromofluorobenzene (s)	15.777	95	167796	52.25	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.50%			

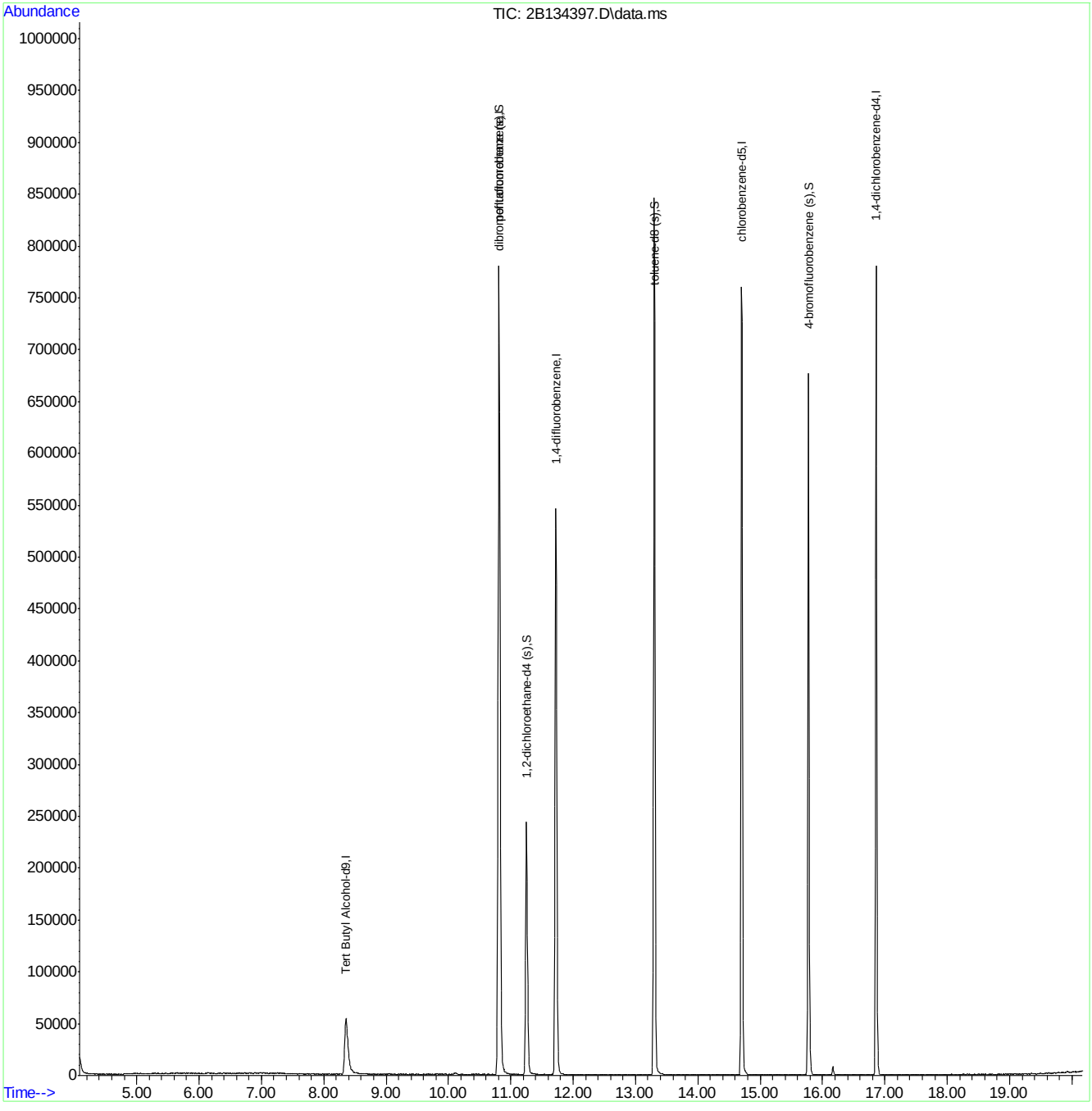
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134397.D
Acq On : 12 Sep 2015 10:36 am
Operator : BridgetK
Sample : mb
Misc : ms90710,v2B5989,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 12:02:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Thu Sep 17 14:12:57 2015 ACC-VOA-CLN-05A Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134427.D
Acq On : 14 Sep 2015 1:03 pm
Operator : BridgetK
Sample : mb
Misc : ms91040,v2B5990,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 16:28:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.352	65	103957	500.00	ug/L	-0.02
5) pentafluorobenzene	10.811	168	455512	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	425348	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	347215	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	180155	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	151592	50.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.34%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	171043	55.00	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.00%			
82) toluene-d8 (s)	13.302	98	469270	51.81	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.62%			
108) 4-bromofluorobenzene (s)	15.771	95	159246	52.66	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.32%			

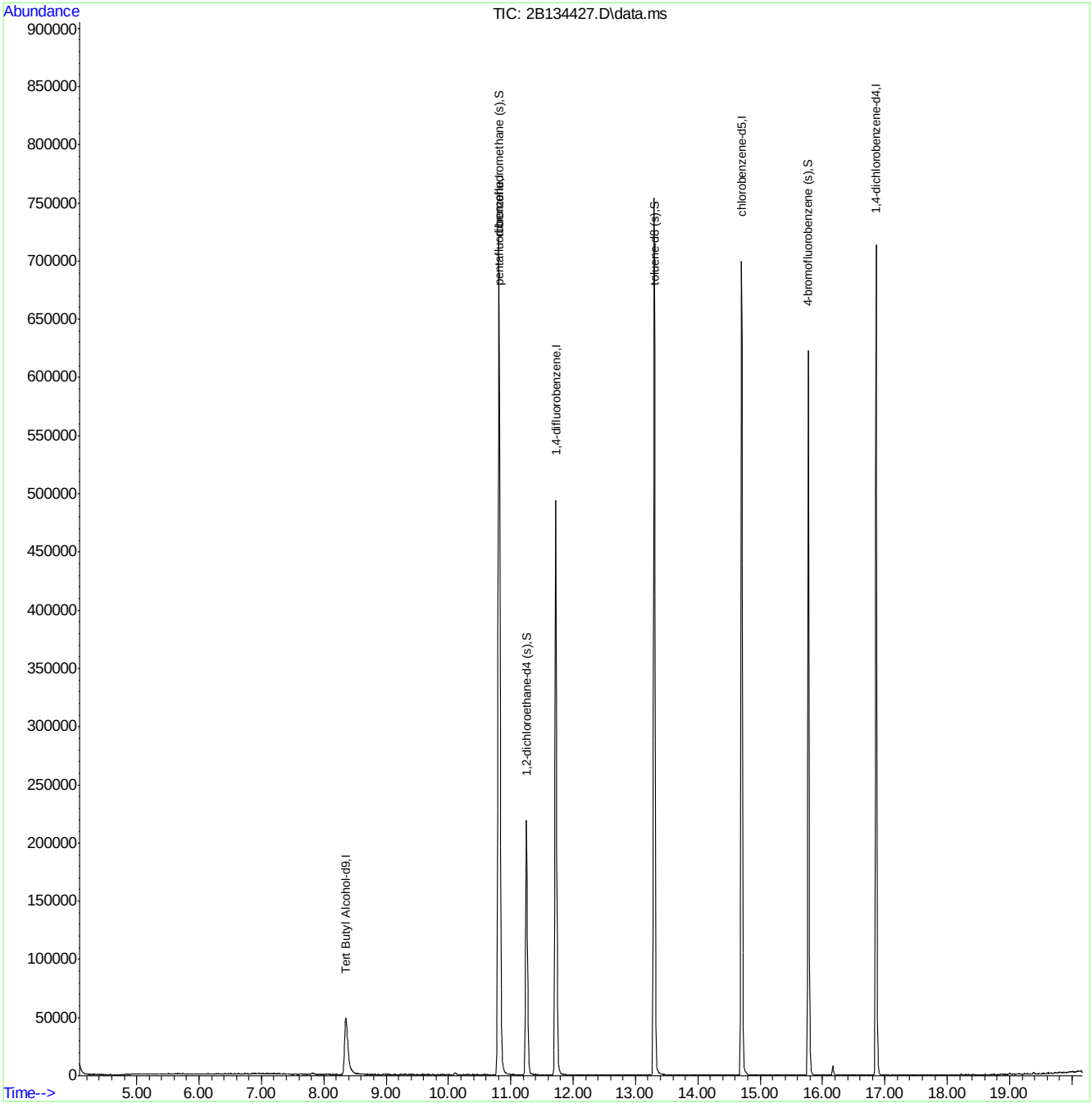
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134427.D
Acq On : 14 Sep 2015 1:03 pm
Operator : BridgetK
Sample : mb
Misc : ms91040,v2B5990,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 16:28:24 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Mon Sep 14 16:42:32 2015 ACC-VOA-CLN-05A Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134470.D
Acq On : 15 Sep 2015 9:56 am
Operator : BridgetK
Sample : mb
Misc : ms91118,v2B5992,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 15 15:33:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	93737	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	423349	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	399134	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	327238	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	171772	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	143139	50.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.94%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	162250	56.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.28%			
82) toluene-d8 (s)	13.302	98	443001	52.12	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.24%			
108) 4-bromofluorobenzene (s)	15.771	95	149335	51.80	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.60%			

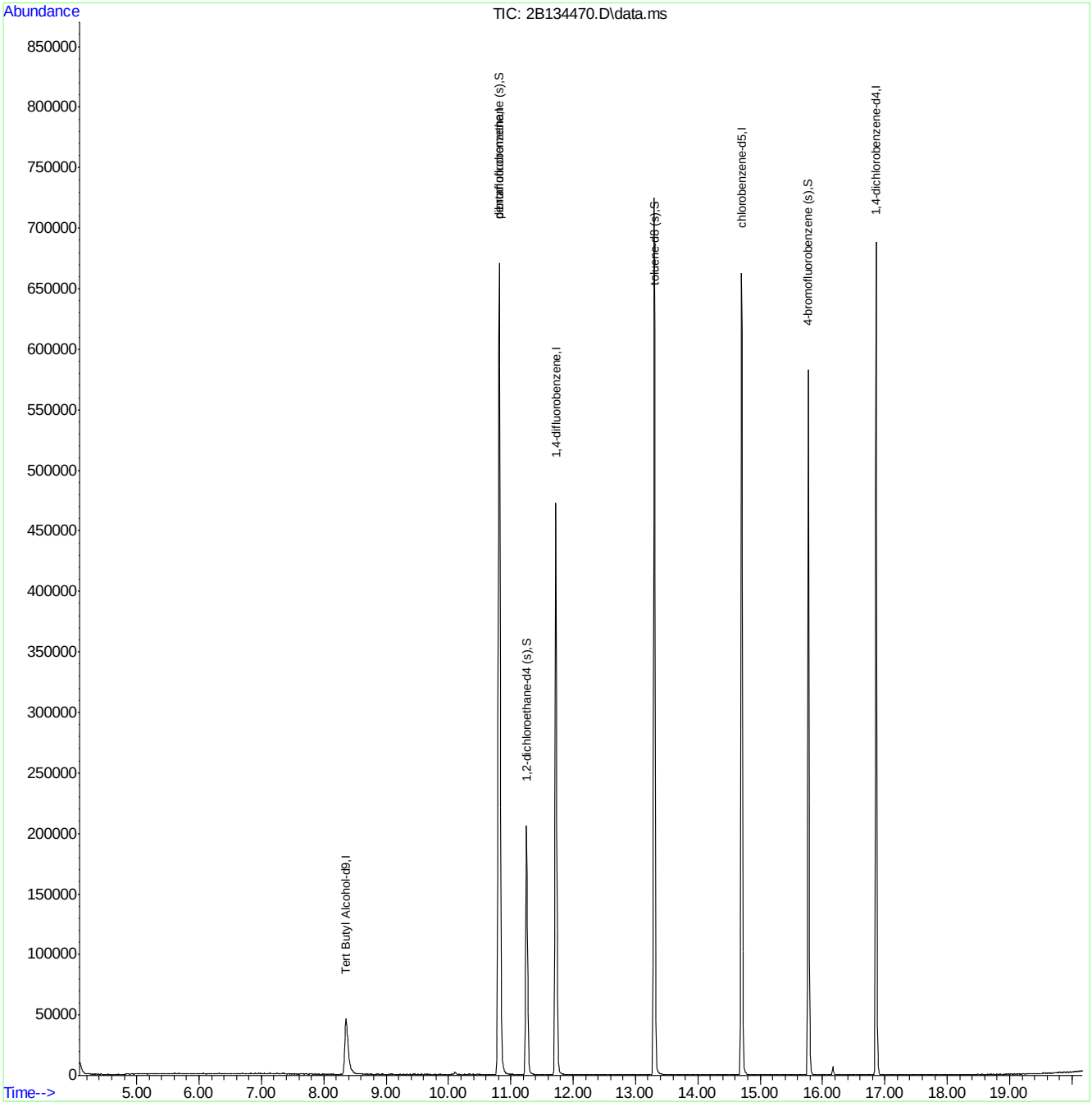
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134470.D
Acq On : 15 Sep 2015 9:56 am
Operator : BridgetK
Sample : mb
Misc : ms91118,v2B5992,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 15 15:33:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134519.D
Acq On : 16 Sep 2015 10:12 am
Operator : BridgetK
Sample : mb
Misc : ms91118,v2B5994,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 16:55:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	85265	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	385513	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	365056	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	300051	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	154369	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	134231	52.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.98%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	149935	56.97	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.94%			
82) toluene-d8 (s)	13.302	98	399520	51.39	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 102.78%			
108) 4-bromofluorobenzene (s)	15.771	95	134196	51.79	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.58%			

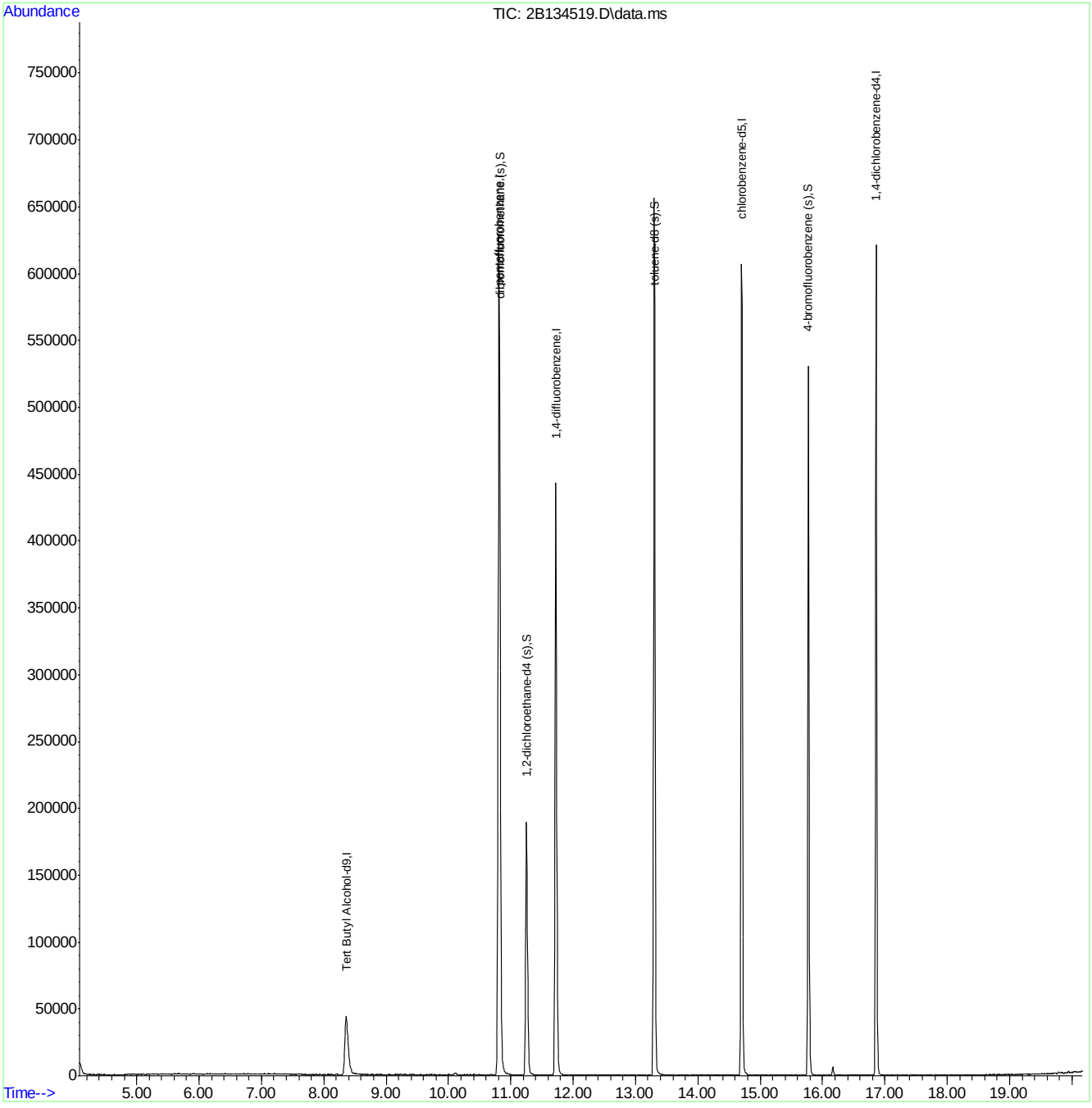
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134519.D
Acq On : 16 Sep 2015 10:12 am
Operator : BridgetK
Sample : mb
Misc : ms91118,v2B5994,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 16:55:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134552.D
Acq On : 17 Sep 2015 11:34 am
Operator : BridgetK
Sample : mb
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 16:19:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	98862	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	447014	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	425879	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	349630	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	184007	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	154991	52.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.54%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	179255	58.74	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 117.48%			
82) toluene-d8 (s)	13.302	98	466650	51.45	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 102.90%			
108) 4-bromofluorobenzene (s)	15.771	95	158608	51.35	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.70%			
Target Compounds						Qvalue

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

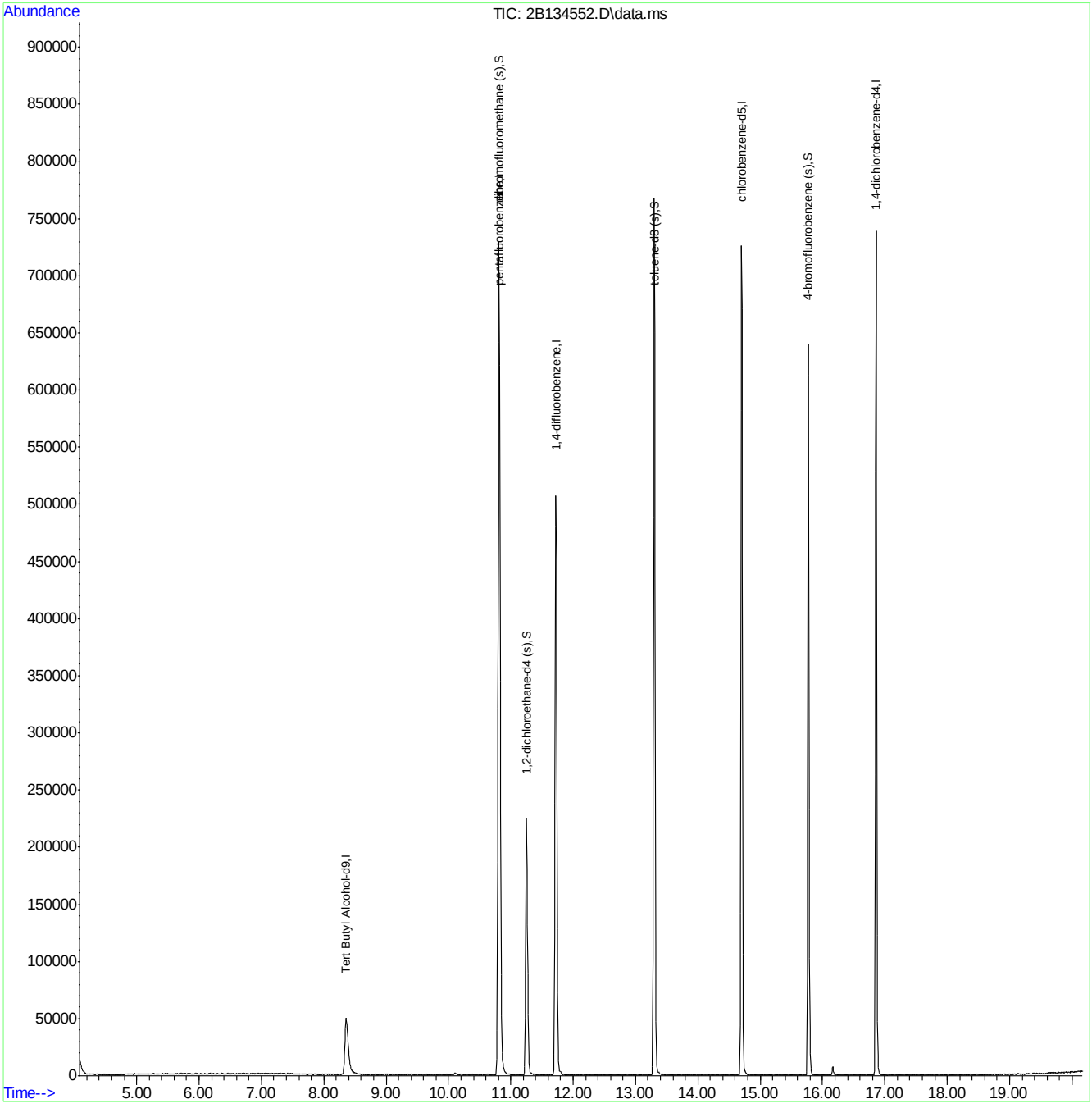
7.2.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134552.D
Acq On : 17 Sep 2015 11:34 am
Operator : BridgetK
Sample : mb
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 16:19:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration



M2B5926.M Thu Sep 17 16:32:10 2015 ACC-VOA-CLN-05A Page: 2

ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134423.D
Acq On : 14 Sep 2015 10:35 am
Operator : BridgetK
Sample : mb2
Misc : ms91040,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 16:24:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.357	65	105910	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	453963	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	423060	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	345594	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	182402	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.816	113	150598	50.01	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.02%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	169402	54.66	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.32%			
82) toluene-d8 (s)	13.302	98	470208	52.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.38%			
108) 4-bromofluorobenzene (s)	15.771	95	161054	52.61	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.22%			

Target Compounds Qvalue

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

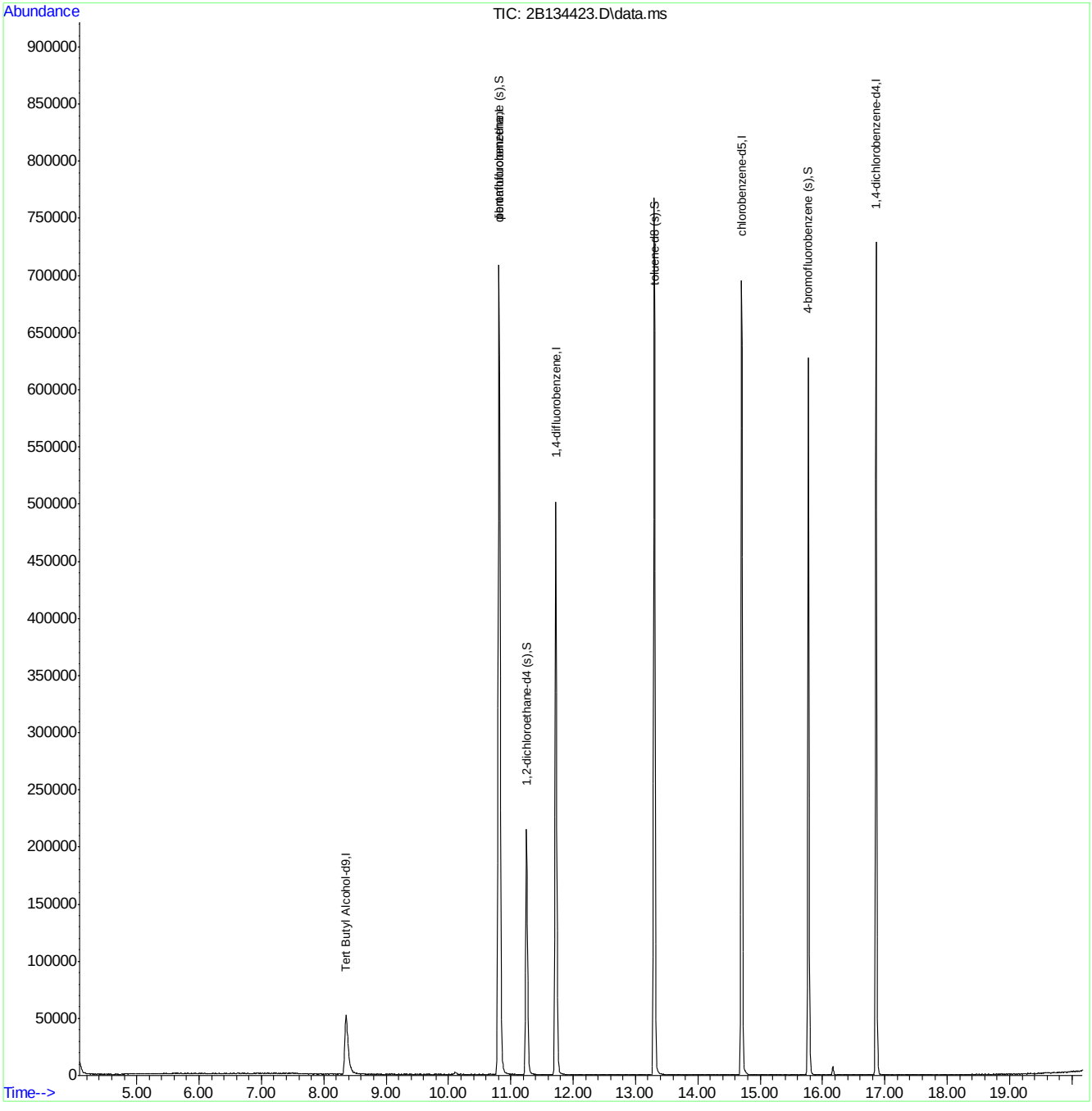
7.2.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134423.D
Acq On : 14 Sep 2015 10:35 am
Operator : BridgetK
Sample : mb2
Misc : ms91040,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 16:24:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147886.D
Acq On : 9 Sep 2015 11:24 am
Operator : BridgetK
Sample : bs
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 09:46:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.580	65	81403	500.00	ug/L	0.00
5) pentafluorobenzene	10.301	168	356215	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.455	114	407742	50.00	ug/L	0.00
78) chlorobenzene-d5	15.660	117	405567	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	18.417	152	238212	50.00	ug/L	0.00

System Monitoring Compounds						
42) dibromofluoromethane (s)	10.317	113	134273	53.69	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 107.38%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	139697	53.94	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 107.88%			
70) toluene-d8 (s)	13.652	98	495854	55.90	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 111.80%			
95) 4-bromofluorobenzene (s)	17.143	95	203629	53.95	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.90%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.711	59	43841	214.05	ug/L	94
3) ethyl alcohol	6.180	45	94975	3874.62	ug/L	95
4) 1,4-dioxane	12.404	88	23315	1176.36	ug/L #	96
6) chlorodifluoromethane	3.973	51	125607	44.38	ug/L	99
7) dichlorodifluoromethane	3.957	85	173533	48.37	ug/L	96
8) chloromethane	4.303	50	168376	40.55	ug/L	97
9) vinyl chloride	4.565	62	164970	45.45	ug/L	98
10) bromomethane	5.231	94	115793	48.98	ug/L	97
11) chloroethane	5.425	64	83560	51.75	ug/L	95
12) trichlorofluoromethane	5.897	101	219850	50.66	ug/L	98
13) ethyl ether	6.358	74	52533	43.52	ug/L	92
14) acrolein	6.621	56	178522	419.00	ug/L	99
15) 1,1-dichloroethene	6.799	96	103864	45.08	ug/L	99
16) 2-chloropropane	6.558	43	206179	43.16	ug/L	97
17) acetone	6.867	58	6501	38.25	ug/L #	82
18) allyl chloride	7.391	76	63115	49.58	ug/L #	86
19) acetonitrile	7.360	40	75237	376.03	ug/L	96
20) iodomethane	7.092	142	229669	45.11	ug/L	98
21) carbon disulfide	7.218	76	387531	46.61	ug/L	99
22) methylene chloride	7.596	84	120368	44.75	ug/L	90
23) methyl acetate	7.386	74	12424	38.72	ug/L #	84
24) 1-chloropropane	7.643	63	10278	46.51	ug/L	93
25) methyl tert butyl ether	8.010	73	637986	87.38	ug/L	90
26) trans-1,2-dichloroethene	8.031	96	114126	44.22	ug/L	95
27) di-isopropyl ether	8.728	45	380554	40.59	ug/L	98
28) 2-butanone	9.593	72	9936	45.33	ug/L	70
29) 1,1-dichloroethane	8.707	63	213285	44.24	ug/L	98
30) chloroprene	8.844	53	405164	107.01	ug/L	97
31) acrylonitrile	7.989	53	151840	194.57	ug/L	97
32) vinyl acetate	8.718	86	17523	48.31	ug/L	66
33) ethyl tert-butyl ether	9.300	59	380657	45.07	ug/L	99
34) ethyl acetate	9.630	45	10901	37.85	ug/L	91
35) 2,2-dichloropropane	9.620	77	208651	49.16	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147886.D
Acq On : 9 Sep 2015 11:24 am
Operator : BridgetK
Sample : bs
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 09:46:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.604	96	129417	44.95	ug/L		95
37) propionitrile	9.714	54	107906	379.84	ug/L		93
38) tert-Butyl Formate	10.149	59	104210	44.64	ug/L		98
39) bromochloromethane	9.981	128	65915	44.71	ug/L		94
40) tetrahydrofuran	10.044	42	22241	35.39	ug/L		91
41) chloroform	10.065	83	218804	45.80	ug/L		98
44) freon 113	6.783	151	109383	55.27	ug/L		99
45) methacrylonitrile	9.939	67	34323	42.28	ug/L		92
46) 1,1,1-trichloroethane	10.396	97	211009	49.31	ug/L		100
47) cyclohexane	10.485	84	178208	49.50	ug/L		92
48) isobutyl alcohol	10.616	74	12052	395.27	ug/L	#	51
49) iso-octane	11.009	57	450290	50.73	ug/L		96
51) epichlorohydrin	12.986	57	63671	312.02	ug/L	#	44
52) n-butyl alcohol	11.633	56	109700	1943.85	ug/L		95
53) carbon tetrachloride	10.647	117	198000	49.71	ug/L		100
54) 1,1-dichloropropene	10.621	75	162318	46.75	ug/L		97
55) hexane	8.419	86	18939	51.43	ug/L	#	89
56) benzene	10.957	78	459179	44.51	ug/L		99
57) tert-amyl methyl ether	11.041	87	81449	47.09	ug/L		95
58) heptane	11.234	57	93516	56.41	ug/L		98
59) isopropyl acetate	10.915	43	166158	39.77	ug/L		95
60) 1,2-dichloroethane	10.972	62	156881	46.67	ug/L		98
61) trichloroethene	11.885	130	135143	47.47	ug/L		98
63) 2-chloroethyl vinyl ether	12.986	63	335253	235.25	ug/L		98
64) methyl methacrylate	12.299	69	60041	44.49	ug/L		93
65) 1,2-dichloropropane	12.246	63	123371	44.43	ug/L		99
66) dibromomethane	12.430	93	72650	44.81	ug/L		92
67) methylcyclohexane	12.194	83	215504	51.88	ug/L		96
68) bromodichloromethane	12.619	83	177250	46.80	ug/L		99
69) cis-1,3-dichloropropene	13.253	75	205838	46.55	ug/L		96
71) 4-methyl-2-pentanone	13.426	58	35596	43.70	ug/L		95
72) toluene	13.746	92	298714	47.19	ug/L		99
73) 3-methyl-1-butanol	13.447	55	109259	1170.93	ug/L		93
74) trans-1,3-dichloropropene	14.013	75	177688	45.33	ug/L		100
75) ethyl methacrylate	14.066	69	125412	44.26	ug/L		92
76) 1,1,2-trichloroethane	14.296	83	87036	45.82	ug/L		100
77) 2-hexanone	14.580	58	30018	43.23	ug/L		95
79) 3,3-Dimethyl-1-butanol	14.805	57	87920	371.56	ug/L		97
80) tetrachloroethene	14.517	164	125431	43.27	ug/L		99
81) 1,3-dichloropropane	14.543	76	164597	40.95	ug/L		91
82) butyl acetate	14.700	56	60759	38.97	ug/L	#	82
83) dibromochloromethane	14.873	129	147023	43.64	ug/L		100
84) 1,2-dibromoethane	15.067	107	108647	41.94	ug/L		99
85) n-butyl ether	15.686	57	551569	42.21	ug/L		99
86) chlorobenzene	15.702	112	362034	44.18	ug/L		98
87) 1,1,1,2-tetrachloroethane	15.791	131	152375	45.02	ug/L		98
88) ethylbenzene	15.806	91	603582	43.85	ug/L		98
89) m,p-xylene	15.948	106	467421	89.48	ug/L		96
90) o-xylene	16.488	106	252180	46.16	ug/L		98
91) styrene	16.499	104	407345	45.71	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147886.D
Acq On : 9 Sep 2015 11:24 am
Operator : BridgetK
Sample : bs
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 09:46:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

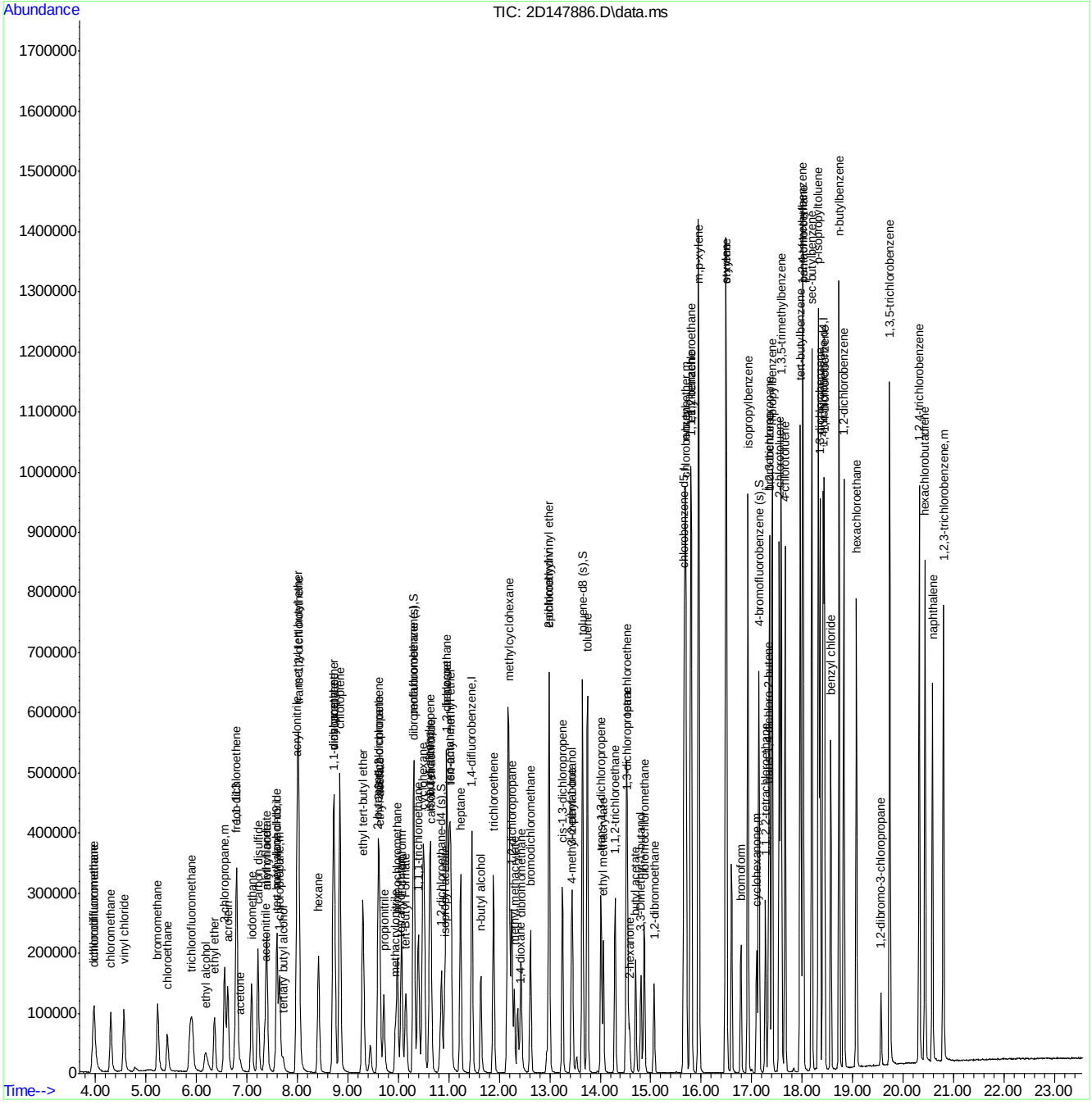
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) bromoform	16.787	173	110302	43.56	ug/L	99
94) isopropylbenzene	16.923	105	668954	46.93	ug/L	99
96) cyclohexanone	17.101	55	84370	441.00	ug/L	96
97) bromobenzene	17.353	156	191049	45.64	ug/L	97
98) 1,1,2,2-tetrachloroethane	17.274	83	141999	42.25	ug/L	97
99) trans-1,4-dichloro-2-b...	17.332	53	29238	35.59	ug/L	81
100) 1,2,3-trichloropropane	17.353	110	35990	42.99	ug/L	95
101) n-propylbenzene	17.406	91	784491	49.33	ug/L	99
102) 2-chlorotoluene	17.547	126	170994	45.97	ug/L	94
103) 4-chlorotoluene	17.662	91	477905	46.62	ug/L	98
104) 1,3,5-trimethylbenzene	17.584	105	580203	46.95	ug/L	100
105) tert-butylbenzene	17.967	119	527674	48.10	ug/L	99
106) pentachloroethane	18.024	167	137114	50.22	ug/L	99
107) 1,2,4-trimethylbenzene	18.008	105	608991	49.84	ug/L	99
108) sec-butylbenzene	18.192	105	795839	49.16	ug/L	99
109) 1,3-dichlorobenzene	18.355	146	376541	48.13	ug/L	98
110) p-isopropyltoluene	18.323	119	697145	48.93	ug/L	99
111) 1,4-dichlorobenzene	18.444	146	378288	47.91	ug/L	100
112) 1,2-dichlorobenzene	18.826	146	385638	49.29	ug/L	100
113) benzyl chloride	18.564	91	367441	53.27	ug/L	99
114) n-butylbenzene	18.732	92	357412	52.87	ug/L	99
115) 1,2-dibromo-3-chloropr...	19.566	157	35970	45.11	ug/L	95
116) 1,3,5-trichlorobenzene	19.739	180	375660	51.33	ug/L	100
117) hexachlorobutadiene	20.436	225	186101	50.00	ug/L	99
118) naphthalene	20.583	128	485518	49.68	ug/L	99
119) 1,2,4-trichlorobenzene	20.321	180	314576	52.09	ug/L	98
120) 1,2,3-trichlorobenzene	20.803	180	262194	50.77	ug/L	100
121) hexachloroethane	19.078	201	147474	50.05	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147886.D
Acq On : 9 Sep 2015 11:24 am
Operator : BridgetK
Sample : bs
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 09:46:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134301.D
Acq On : 10 Sep 2015 11:08 am
Operator : BridgetK
Sample : bs
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:31:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	116413	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	530137	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	545857	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	475302	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	247146	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	178088	50.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.28%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	180920	49.99	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.98%			
82) toluene-d8 (s)	13.302	98	620181	53.35	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.70%			
108) 4-bromofluorobenzene (s)	15.771	95	212998	51.35	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.70%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	53188	195.99	ug/L	88
3) ethanol	6.911	45	120579	4317.54	ug/L	95
4) 1,4-dioxane	12.410	88	31269	1306.64	ug/L	95
9) chlorodifluoromethane	4.499	51	129546	41.74	ug/L	96
10) dichlorodifluoromethane	4.488	85	184343	39.77	ug/L	98
12) chloromethane	4.871	50	179143	41.75	ug/L	98
13) vinyl chloride	5.175	62	175228	45.16	ug/L	97
15) bromomethane	5.904	94	124917	46.12	ug/L	99
16) chloroethane	6.114	64	95554	54.46	ug/L	97
18) trichlorofluoromethane	6.680	101	218476	46.26	ug/L	99
20) ethyl ether	7.152	74	76122	51.55	ug/L	93
21) acrolein	7.377	56	231577	495.66	ug/L	99
22) 2-chloropropane	7.340	43	233381	45.07	ug/L	99
24) 1,1-dichloroethene	7.597	96	122070	47.75	ug/L	92
25) acetone	7.634	43	31643	42.64	ug/L	97
26) allyl chloride	8.195	76	73850	53.60	ug/L	90
27) acetonitrile	8.101	40	65344	411.61	ug/L	95
28) iodomethane	7.891	142	258980	46.67	ug/L	99
29) iso-butyl alcohol	11.100	74	12553	405.53	ug/L #	27
30) carbon disulfide	8.038	76	458571	50.07	ug/L	97
31) methylene chloride	8.384	84	146164	49.82	ug/L	91
32) methyl acetate	8.190	74	17960	44.97	ug/L	91
33) 1-chloropropane	8.452	42	217894	44.60	ug/L	99
34) methyl tert butyl ether	8.819	73	666304	94.34	ug/L	97
35) trans-1,2-dichloroethene	8.829	96	138052	48.15	ug/L	97
36) di-isopropyl ether	9.495	45	376233	43.94	ug/L	95
37) 2-butanone	10.203	72	13776	49.97	ug/L	97
38) 1,1-dichloroethane	9.443	63	246179	51.57	ug/L	100
39) chloroprene	9.579	53	413447	108.35	ug/L	96
40) acrylonitrile	8.730	53	214828	239.39	ug/L	99
41) vinyl acetate	9.448	86	22783	48.70	ug/L	96
42) ethyl tert-butyl ether	9.993	59	355002	47.28	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134301.D
Acq On : 10 Sep 2015 11:08 am
Operator : BridgetK
Sample : bs
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:31:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) ethyl acetate	10.245	45	13649	43.21	ug/L	71
44) 2,2-dichloropropane	10.261	77	206366	48.69	ug/L	97
45) cis-1,2-dichloroethene	10.229	96	155531	48.95	ug/L	98
46) propionitrile	10.271	54	149933	464.52	ug/L	99
47) bromochloromethane	10.549	128	83489	52.25	ug/L	93
48) tetrahydrofuran	10.623	42	25802	37.59	ug/L	94
49) chloroform	10.617	83	245613	49.96	ug/L	98
50) t-butyl formate	10.696	59	84053	45.80	ug/L	94
53) freon 113	7.613	151	121023	53.42	ug/L	95
54) methacrylonitrile	10.492	41	62060	42.50	ug/L	95
55) 1,1,1-trichloroethane	10.916	97	214971	50.44	ug/L	99
56) Cyclohexane	11.016	84	195657	50.94	ug/L	80
61) epichlorohydrin	12.898	57	115	0.58	ug/L	54
62) n-butyl alcohol	11.828	56	135582	2597.16	ug/L	94
63) carbon tetrachloride	11.131	117	197786	52.21	ug/L	99
64) 1,1-dichloropropene	11.100	75	177719	52.41	ug/L	97
65) hexane	9.228	57	72985	20.70	ug/L	93
66) benzene	11.357	78	521257	52.42	ug/L	99
67) 2,2,4-trimethylpentane	11.420	57	405928	48.95	ug/L	95
68) tert-amyl methyl ether	11.425	73	315126	50.45	ug/L	96
69) heptane	11.587	57	93696	53.95	ug/L	98
70) isopropyl acetate	11.299	43	172570	42.95	ug/L	95
71) 1,2-dichloroethane	11.346	62	166397	52.26	ug/L	99
72) trichloroethene	12.059	95	140620	51.84	ug/L	96
74) 2-nitropropane	12.762	41	25022	42.27	ug/L	97
75) 2-chloroethyl vinyl ether	12.804	63	324898	263.47	ug/L	99
76) methyl methacrylate	12.321	100	29596	50.85	ug/L	90
77) 1,2-dichloropropane	12.300	63	128268	51.22	ug/L	100
78) dibromomethane	12.431	93	82560	52.75	ug/L	98
79) methylcyclohexane	12.306	83	210168	52.27	ug/L	98
80) bromodichloromethane	12.563	83	184104	51.70	ug/L	98
81) cis-1,3-dichloropropene	13.008	75	203905	49.26	ug/L	93
83) 4-methyl-2-pentanone	13.113	58	41303	51.70	ug/L #	86
84) toluene	13.370	92	310644	48.68	ug/L	99
85) 3-methyl-1-butanol	13.113	55	120788	1551.77	ug/L	92
86) trans-1,3-dichloropropene	13.527	75	173933	48.45	ug/L	94
87) ethyl methacrylate	13.548	69	135183	49.62	ug/L	95
88) 1,1,2-trichloroethane	13.726	83	95269	52.30	ug/L	99
89) 2-hexanone	13.905	58	32638	49.09	ug/L	87
91) n-butyl ether	14.686	57	484000	45.71	ug/L	97
92) tetrachloroethene	13.920	164	148778	52.20	ug/L	97
93) 1,3-dichloropropane	13.899	76	176440	47.62	ug/L	93
94) butyl acetate	13.989	56	59128	45.60	ug/L	86
95) 3,3-dimethyl-1-butanol	14.057	57	71986	442.51	ug/L	96
96) dibromochloromethane	14.141	129	154665	48.83	ug/L	99
97) 1,2-dibromoethane	14.287	107	120117	48.06	ug/L	98
98) chlorobenzene	14.733	112	356972	50.74	ug/L	98
99) 1,1,1,2-tetrachloroethane	14.786	131	139591	48.84	ug/L	97
100) ethylbenzene	14.796	91	547983	48.16	ug/L	100
101) m,p-xylene	14.896	106	454832	100.80	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134301.D
Acq On : 10 Sep 2015 11:08 am
Operator : BridgetK
Sample : bs
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:31:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

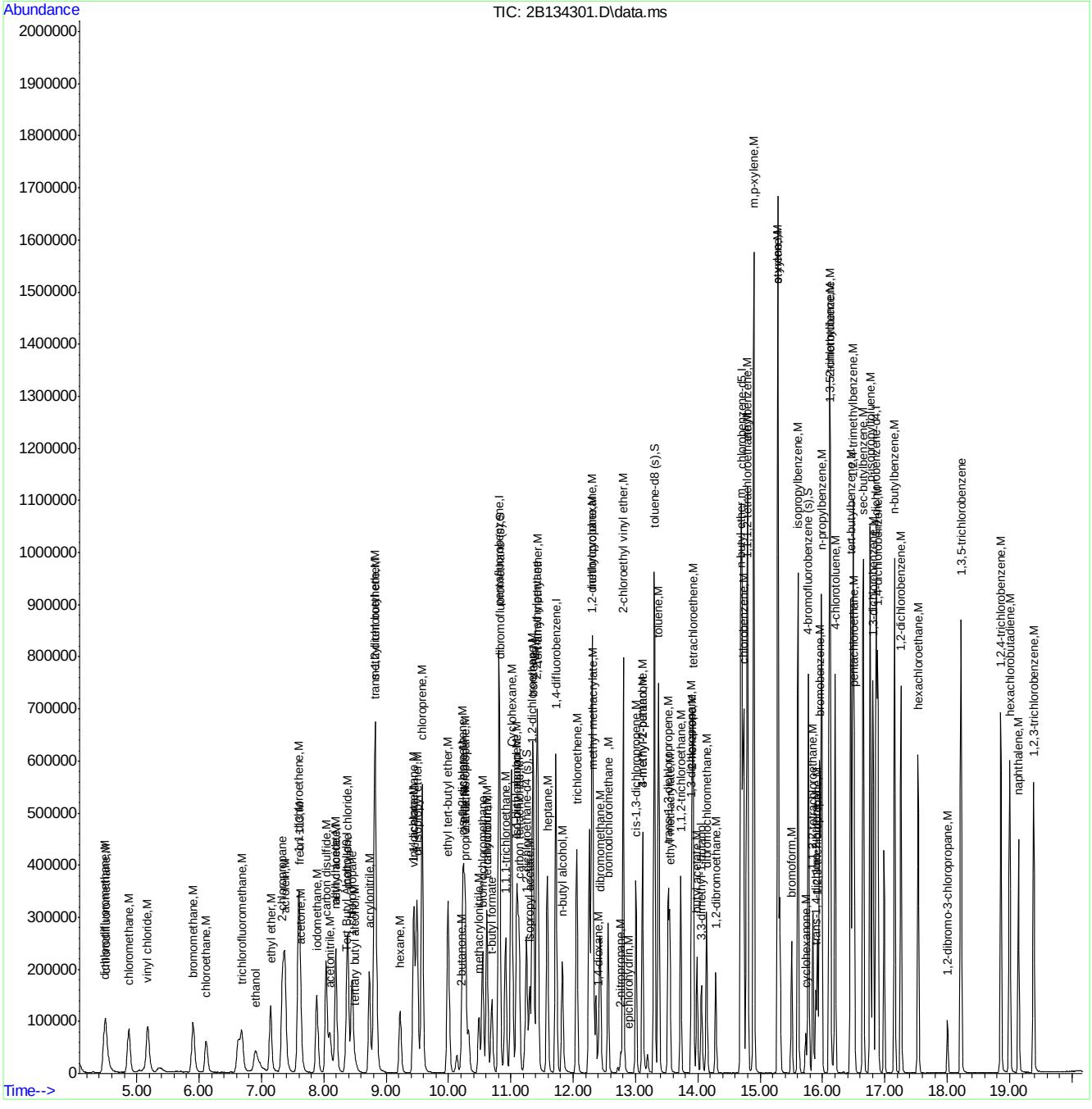
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.284	106	236212	49.74	ug/L	100
103) styrene	15.284	104	378763	49.68	ug/L	98
105) bromoform	15.504	173	114113	49.88	ug/L	99
107) isopropylbenzene	15.603	105	580797	51.95	ug/L	100
109) cyclohexanone	15.729	98	14589	178.87	ug/L	94
110) bromobenzene	15.955	156	179505	53.23	ug/L	98
111) 1,1,2,2-tetrachloroethane	15.845	83	137192	51.41	ug/L	100
112) trans-1,4-dichloro-2-b...	15.892	53	26144	39.98	ug/L	90
113) 1,2,3-trichloropropane	15.918	110	36278	52.31	ug/L	99
114) n-propylbenzene	15.981	91	655031	54.86	ug/L	100
115) 2-chlorotoluene	16.112	126	151115	52.57	ug/L	98
116) 4-chlorotoluene	16.201	91	398693	51.99	ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	474388	52.38	ug/L	99
118) tert-butylbenzene	16.453	119	426791	52.36	ug/L	100
119) pentachloroethane	16.505	167	116188	52.24	ug/L	99
120) 1,2,4-trimethylbenzene	16.484	105	497023	56.22	ug/L	100
121) sec-butylbenzene	16.652	105	630370	52.39	ug/L	100
122) 1,3-dichlorobenzene	16.809	146	324676	51.55	ug/L	99
123) p-isopropyltoluene	16.762	119	557868	53.10	ug/L	100
124) 1,4-dichlorobenzene	16.883	146	320176	51.68	ug/L	99
125) 1,2-dichlorobenzene	17.260	146	323555	53.70	ug/L	98
126) n-butylbenzene	17.155	92	273664	53.84	ug/L	99
127) 1,2-dibromo-3-chloropr...	18.005	157	31246	47.59	ug/L	96
128) 1,3,5-trichlorobenzene	18.220	180	305448	52.82	ug/L	96
129) 1,2,4-trichlorobenzene	18.859	180	243015	50.92	ug/L	99
130) hexachlorobutadiene	19.001	225	148114	50.44	ug/L	99
131) naphthalene	19.143	128	344915	46.44	ug/L	100
132) 1,2,3-trichlorobenzene	19.389	180	195842	49.60	ug/L	98
133) hexachloroethane	17.533	201	123360	54.54	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134301.D
Acq On : 10 Sep 2015 11:08 am
Operator : BridgetK
Sample : bs
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 14:31:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134376.D
Acq On : 11 Sep 2015 11:53 pm
Operator : BridgetK
Sample : bs
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 17 10:41:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	105501	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	455336	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	453729	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	388586	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	204626	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	151832	50.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.54%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	171060	55.03	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.06%			
82) toluene-d8 (s)	13.302	98	513514	53.15	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.30%			
108) 4-bromofluorobenzene (s)	15.771	95	181164	52.75	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.50%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	52855	214.90	ug/L	88
3) ethanol	6.910	45	118276	4673.11	ug/L	99
4) 1,4-dioxane	12.410	88	26819	1236.60	ug/L	87
9) chlorodifluoromethane	4.493	51	123274	46.24	ug/L	96
10) dichlorodifluoromethane	4.478	85	173904	43.69	ug/L	96
12) chloromethane	4.866	50	175162	47.53	ug/L	99
13) vinyl chloride	5.170	62	161497	48.46	ug/L	100
15) bromomethane	5.904	94	108168	46.49	ug/L	96
16) chloroethane	6.114	64	86349	57.30	ug/L	96
18) trichlorofluoromethane	6.675	101	219850	54.20	ug/L	97
20) ethyl ether	7.146	74	64643	50.97	ug/L	97
21) acrolein	7.377	56	165813	413.20	ug/L	98
22) 2-chloropropane	7.335	43	229801	51.67	ug/L	97
24) 1,1-dichloroethene	7.597	96	105175	47.90	ug/L	97
25) acetone	7.634	43	35639	55.92	ug/L	99
26) allyl chloride	8.195	76	63233	53.44	ug/L #	77
27) acetonitrile	8.095	40	73061	535.83	ug/L	97
28) iodomethane	7.886	142	225279	47.26	ug/L	95
29) iso-butyl alcohol	11.094	74	12299	462.60	ug/L #	41
30) carbon disulfide	8.038	76	395563	50.29	ug/L	99
31) methylene chloride	8.384	84	127041	50.42	ug/L	98
32) methyl acetate	8.190	74	16069	46.84	ug/L #	78
33) 1-chloropropane	8.452	42	225492	53.74	ug/L	99
34) methyl tert butyl ether	8.814	73	627700	103.47	ug/L	98
35) trans-1,2-dichloroethene	8.824	96	120125	48.78	ug/L	91
36) di-isopropyl ether	9.495	45	385361	52.40	ug/L	99
37) 2-butanone	10.208	72	12167	51.38	ug/L #	76
38) 1,1-dichloroethane	9.438	63	226875	55.34	ug/L	99
39) chloroprene	9.574	53	405191	123.63	ug/L	94
40) acrylonitrile	8.730	53	208794	270.89	ug/L	98
41) vinyl acetate	9.448	86	19824	49.34	ug/L	63
42) ethyl tert-butyl ether	9.993	59	339923	52.71	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134376.D
Acq On : 11 Sep 2015 11:53 pm
Operator : BridgetK
Sample : bs
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 17 10:41:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.250	45	15523	57.21	ug/L		71
44)	2,2-dichloropropane	10.261	77	172015	47.26	ug/L		94
45)	cis-1,2-dichloroethene	10.229	96	135518	49.66	ug/L		94
46)	propionitrile	10.276	54	142001	512.22	ug/L		98
47)	bromochloromethane	10.549	128	71657	52.21	ug/L		95
48)	tetrahydrofuran	10.623	42	28579	48.48	ug/L		98
49)	chloroform	10.617	83	223630	52.96	ug/L		96
50)	t-butyl formate	10.696	59	80802	51.26	ug/L		95
53)	freon 113	7.608	151	101891	52.37	ug/L		96
54)	methacrylonitrile	10.486	41	67516	53.83	ug/L		96
55)	1,1,1-trichloroethane	10.916	97	203557	55.61	ug/L		97
56)	Cyclohexane	11.016	84	168834	51.18	ug/L		99
61)	epichlorohydrin	13.113	57	47571	290.26	ug/L		56
62)	n-butyl alcohol	11.828	56	127159	2930.40	ug/L		96
63)	carbon tetrachloride	11.131	117	188138	59.75	ug/L		99
64)	1,1-dichloropropene	11.100	75	161190	57.19	ug/L		100
65)	hexane	9.223	57	73676	25.14	ug/L		98
66)	benzene	11.357	78	462104	55.91	ug/L		98
67)	2,2,4-trimethylpentane	11.419	57	347668	50.44	ug/L		94
68)	tert-amyl methyl ether	11.425	73	292950	56.42	ug/L		95
69)	heptane	11.582	57	76937	53.29	ug/L		97
70)	isopropyl acetate	11.304	43	185172	55.45	ug/L		99
71)	1,2-dichloroethane	11.346	62	166043	62.74	ug/L		98
72)	trichloroethene	12.059	95	124650	55.28	ug/L		98
74)	2-nitropropane	12.762	41	29315	59.58	ug/L		88
75)	2-chloroethyl vinyl ether	12.804	63	301809	294.44	ug/L		99
76)	methyl methacrylate	12.321	100	26592	54.96	ug/L	#	75
77)	1,2-dichloropropane	12.300	63	115706	55.59	ug/L		100
78)	dibromomethane	12.431	93	74355	57.15	ug/L		99
79)	methylcyclohexane	12.306	83	173640	51.96	ug/L		98
80)	bromodichloromethane	12.562	83	169770	57.36	ug/L		98
81)	cis-1,3-dichloropropene	13.008	75	178618	51.91	ug/L		93
83)	4-methyl-2-pentanone	13.113	58	38435	57.88	ug/L	#	72
84)	toluene	13.370	92	269893	50.88	ug/L		98
85)	3-methyl-1-butanol	13.113	55	114372	1767.69	ug/L		98
86)	trans-1,3-dichloropropene	13.527	75	157002	52.61	ug/L		93
87)	ethyl methacrylate	13.548	69	123929	54.72	ug/L		91
88)	1,1,2-trichloroethane	13.726	83	82720	54.64	ug/L		97
89)	2-hexanone	13.910	58	29585	53.53	ug/L		97
91)	n-butyl ether	14.686	57	442361	51.10	ug/L		96
92)	tetrachloroethene	13.926	164	136725	58.67	ug/L		99
93)	1,3-dichloropropane	13.899	76	153629	50.72	ug/L		93
94)	butyl acetate	13.989	56	53713	50.67	ug/L		92
95)	3,3-dimethyl-1-butanol	14.057	57	69197	520.29	ug/L		97
96)	dibromochloromethane	14.141	129	137706	53.18	ug/L		100
97)	1,2-dibromoethane	14.287	107	102762	50.29	ug/L		100
98)	chlorobenzene	14.733	112	301211	52.36	ug/L		98
99)	1,1,1,2-tetrachloroethane	14.785	131	124196	53.15	ug/L		97
100)	ethylbenzene	14.796	91	487339	52.39	ug/L		98
101)	m,p-xylene	14.896	106	390592	105.88	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134376.D
Acq On : 11 Sep 2015 11:53 pm
Operator : BridgetK
Sample : bs
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 17 10:41:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

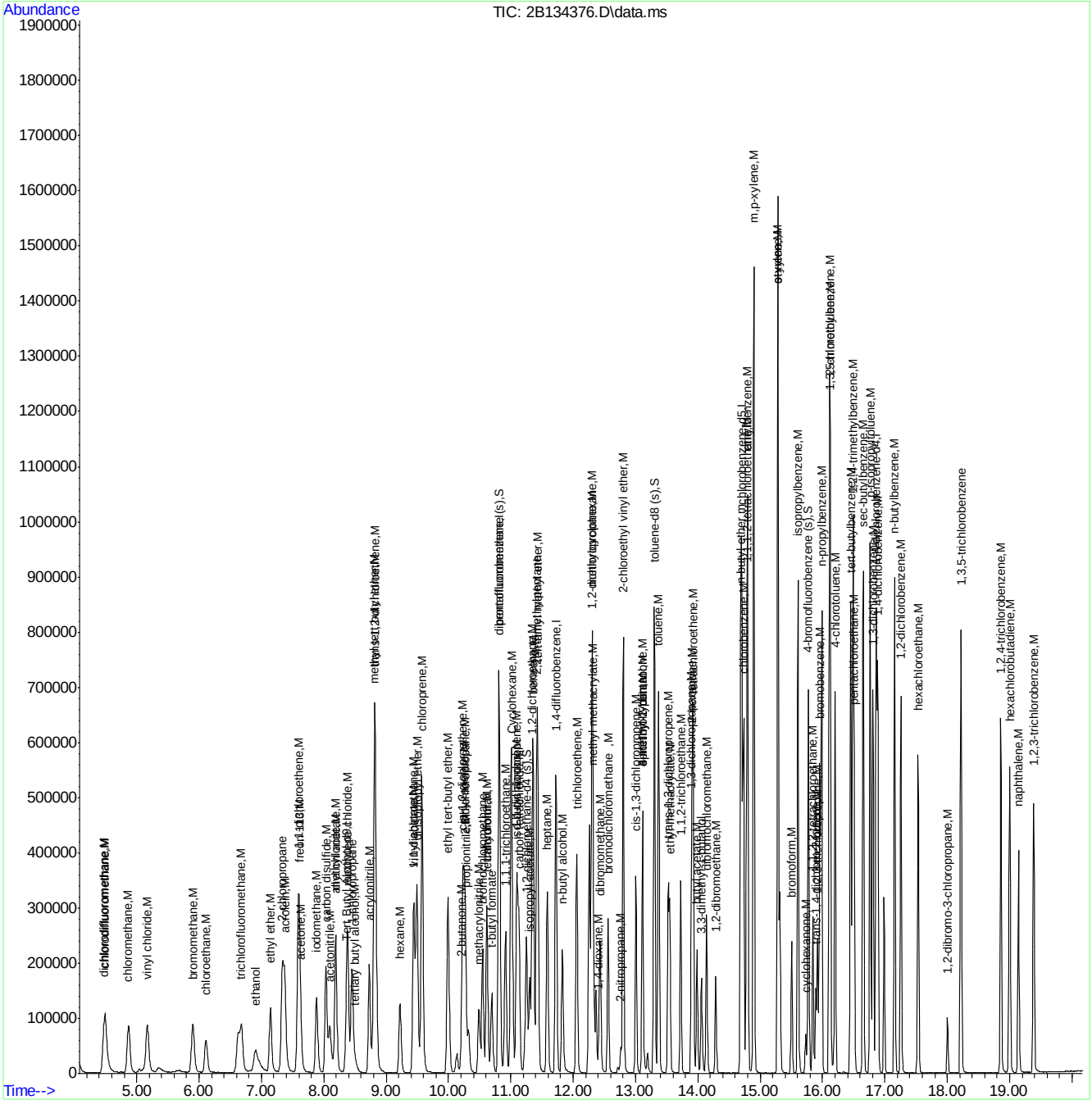
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	204672	52.71 ug/L	96
103) styrene	15.284	104	331203	53.14 ug/L	94
105) bromoform	15.504	173	103629	55.41 ug/L	97
107) isopropylbenzene	15.603	105	517669	55.92 ug/L	98
109) cyclohexanone	15.734	98	11326	167.72 ug/L	88
110) bromobenzene	15.955	156	156069	55.90 ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	118402	53.58 ug/L	99
112) trans-1,4-dichloro-2-b...	15.892	53	27296	50.42 ug/L	93
113) 1,2,3-trichloropropane	15.918	110	32220	56.12 ug/L	99
114) n-propylbenzene	15.986	91	585370	59.22 ug/L	99
115) 2-chlorotoluene	16.112	126	129179	54.27 ug/L	92
116) 4-chlorotoluene	16.201	91	352082	55.45 ug/L	97
117) 1,3,5-trimethylbenzene	16.122	105	426778	56.92 ug/L	98
118) tert-butylbenzene	16.453	119	379559	56.24 ug/L	98
119) pentachloroethane	16.505	167	97302	52.84 ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	441826	60.37 ug/L	97
121) sec-butylbenzene	16.652	105	553852	55.60 ug/L	98
122) 1,3-dichlorobenzene	16.809	146	282114	54.10 ug/L	99
123) p-isopropyltoluene	16.762	119	494605	56.86 ug/L	98
124) 1,4-dichlorobenzene	16.883	146	277540	54.11 ug/L	99
125) 1,2-dichlorobenzene	17.260	146	279155	55.96 ug/L	99
126) n-butylbenzene	17.155	92	235984	56.07 ug/L	95
127) 1,2-dibromo-3-chloropr...	18.005	157	27365	50.34 ug/L	89
128) 1,3,5-trichlorobenzene	18.220	180	265339	55.42 ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	212326	53.74 ug/L	99
130) hexachlorobutadiene	19.001	225	132093	54.34 ug/L	100
131) naphthalene	19.142	128	295274	48.02 ug/L	99
132) 1,2,3-trichlorobenzene	19.389	180	164832	50.42 ug/L	98
133) hexachloroethane	17.533	201	112021	59.81 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134376.D
Acq On : 11 Sep 2015 11:53 pm
Operator : BridgetK
Sample : bs
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 17 10:41:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134398.D
Acq On : 12 Sep 2015 11:11 am
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 11:37:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	105280	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	443746	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	445802	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	378345	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	200976	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	149089	50.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.30%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	168972	55.78	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.56%			
82) toluene-d8 (s)	13.302	98	500597	52.73	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.46%			
108) 4-bromofluorobenzene (s)	15.771	95	175395	51.99	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.98%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	50461	205.60	ug/L	70
3) ethanol	6.905	45	116395	4608.44	ug/L	97
4) 1,4-dioxane	12.405	88	26383	1219.05	ug/L	88
9) chlorodifluoromethane	4.499	51	125403	48.27	ug/L	99
10) dichlorodifluoromethane	4.478	85	170816	44.03	ug/L	95
12) chloromethane	4.871	50	169248	47.12	ug/L	97
13) vinyl chloride	5.170	62	161181	49.62	ug/L	97
15) bromomethane	5.904	94	111327	49.10	ug/L	92
16) chloroethane	6.114	64	86382	58.82	ug/L	95
18) trichlorofluoromethane	6.680	101	217513	55.03	ug/L	96
20) ethyl ether	7.141	74	62188	50.32	ug/L	96
21) acrolein	7.372	56	169531	433.50	ug/L	98
22) 2-chloropropane	7.335	43	223533	51.58	ug/L	95
24) 1,1-dichloroethene	7.597	96	100799	47.11	ug/L	95
25) acetone	7.634	43	33198	53.45	ug/L	94
26) allyl chloride	8.195	76	61045	52.93	ug/L #	76
27) acetonitrile	8.095	40	71949	541.45	ug/L	93
28) iodomethane	7.886	142	220440	47.45	ug/L	93
29) iso-butyl alcohol	11.094	74	12154	469.09	ug/L #	35
30) carbon disulfide	8.033	76	392053	51.15	ug/L	98
31) methylene chloride	8.384	84	123424	50.26	ug/L	96
32) methyl acetate	8.185	74	15895	47.55	ug/L	91
33) 1-chloropropane	8.447	42	215737	52.76	ug/L	98
34) methyl tert butyl ether	8.814	73	614748	103.98	ug/L	96
35) trans-1,2-dichloroethene	8.824	96	115888	48.29	ug/L	94
36) di-isopropyl ether	9.490	45	372224	51.94	ug/L	98
37) 2-butanone	10.203	72	11765	50.98	ug/L #	76
38) 1,1-dichloroethane	9.438	63	218926	54.79	ug/L	99
39) chloroprene	9.574	53	390700	122.32	ug/L	94
40) acrylonitrile	8.730	53	204134	271.76	ug/L	93
41) vinyl acetate	9.448	86	19266	49.20	ug/L	75
42) ethyl tert-butyl ether	9.993	59	328816	52.32	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134398.D
Acq On : 12 Sep 2015 11:11 am
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 11:37:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) ethyl acetate	10.250	45	13514	51.11 ug/L #	54
44) 2,2-dichloropropane	10.256	77	186158	52.48 ug/L	95
45) cis-1,2-dichloroethene	10.229	96	131645	49.50 ug/L	92
46) propionitrile	10.271	54	139012	514.54 ug/L	99
47) bromochloromethane	10.544	128	69069	51.64 ug/L	93
48) tetrahydrofuran	10.617	42	27813	48.41 ug/L	91
49) chloroform	10.617	83	218908	53.20 ug/L	98
50) t-butyl formate	10.696	59	81502	53.06 ug/L	93
53) freon 113	7.608	151	101863	53.72 ug/L	98
54) methacrylonitrile	10.486	41	64050	52.40 ug/L	95
55) 1,1,1-trichloroethane	10.911	97	202177	56.67 ug/L	99
56) Cyclohexane	11.011	84	162662	50.60 ug/L	95
61) epichlorohydrin	13.113	57	45834	284.64 ug/L	56
62) n-butyl alcohol	11.823	56	125410	2941.48 ug/L	94
63) carbon tetrachloride	11.131	117	186903	60.41 ug/L	100
64) 1,1-dichloropropene	11.094	75	154845	55.91 ug/L	96
65) hexane	9.228	57	69441	24.11 ug/L	100
66) benzene	11.357	78	444239	54.71 ug/L	98
67) 2,2,4-trimethylpentane	11.420	57	336254	49.65 ug/L	93
68) tert-amyl methyl ether	11.425	73	282501	55.37 ug/L	95
69) heptane	11.582	57	72770	51.30 ug/L	98
70) isopropyl acetate	11.299	43	178511	54.40 ug/L	97
71) 1,2-dichloroethane	11.341	62	162754	62.59 ug/L	99
72) trichloroethene	12.054	95	119193	53.80 ug/L	97
74) 2-nitropropane	12.762	41	28982	59.95 ug/L	97
75) 2-chloroethyl vinyl ether	12.804	63	273826	271.89 ug/L	99
76) methyl methacrylate	12.321	100	26145	55.00 ug/L #	88
77) 1,2-dichloropropane	12.300	63	110850	54.20 ug/L	100
78) dibromomethane	12.431	93	72025	56.34 ug/L	97
79) methylcyclohexane	12.306	83	170831	52.03 ug/L	97
80) bromodichloromethane	12.557	83	165042	56.75 ug/L	100
81) cis-1,3-dichloropropene	13.008	75	177357	52.46 ug/L	96
83) 4-methyl-2-pentanone	13.113	58	38068	58.35 ug/L #	75
84) toluene	13.370	92	261797	50.23 ug/L	99
85) 3-methyl-1-butanol	13.113	55	111615	1755.75 ug/L	96
86) trans-1,3-dichloropropene	13.522	75	154461	52.68 ug/L	95
87) ethyl methacrylate	13.548	69	119744	53.82 ug/L	94
88) 1,1,2-trichloroethane	13.721	83	80902	54.38 ug/L	94
89) 2-hexanone	13.910	58	28073	51.70 ug/L	97
91) n-butyl ether	14.686	57	424845	50.41 ug/L	95
92) tetrachloroethene	13.920	164	125261	55.21 ug/L	98
93) 1,3-dichloropropane	13.900	76	148233	50.26 ug/L	93
94) butyl acetate	13.989	56	53146	51.49 ug/L	97
95) 3,3-dimethyl-1-butanol	14.057	57	66693	515.04 ug/L	94
96) dibromochloromethane	14.141	129	135939	53.92 ug/L	98
97) 1,2-dibromoethane	14.288	107	99177	49.85 ug/L	97
98) chlorobenzene	14.733	112	293907	52.48 ug/L	99
99) 1,1,1,2-tetrachloroethane	14.786	131	123477	54.28 ug/L	98
100) ethylbenzene	14.796	91	471621	52.07 ug/L	98
101) m,p-xylene	14.896	106	374051	104.14 ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134398.D
Acq On : 12 Sep 2015 11:11 am
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 11:37:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	197399	52.22 ug/L	95
103) styrene	15.284	104	316423	52.14 ug/L	94
105) bromoform	15.504	173	100902	55.41 ug/L	98
107) isopropylbenzene	15.604	105	504514	55.49 ug/L	98
109) cyclohexanone	15.729	98	10546	159.00 ug/L #	73
110) bromobenzene	15.955	156	152219	55.51 ug/L	94
111) 1,1,2,2-tetrachloroethane	15.845	83	116707	53.78 ug/L	99
112) trans-1,4-dichloro-2-b...	15.892	53	29129	54.78 ug/L	84
113) 1,2,3-trichloropropane	15.918	110	31689	56.19 ug/L	94
114) n-propylbenzene	15.986	91	566766	58.38 ug/L	99
115) 2-chlorotoluene	16.112	126	123912	53.01 ug/L	94
116) 4-chlorotoluene	16.201	91	341255	54.72 ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	416142	56.51 ug/L	98
118) tert-butylbenzene	16.453	119	370025	55.83 ug/L	96
119) pentachloroethane	16.505	167	103492	57.22 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	431286	60.00 ug/L	97
121) sec-butylbenzene	16.652	105	536745	54.86 ug/L	98
122) 1,3-dichlorobenzene	16.809	146	273861	53.47 ug/L	99
123) p-isopropyltoluene	16.762	119	478632	56.02 ug/L	98
124) 1,4-dichlorobenzene	16.883	146	269233	53.44 ug/L	98
125) 1,2-dichlorobenzene	17.260	146	274218	55.97 ug/L	97
126) n-butylbenzene	17.155	92	229194	55.45 ug/L	96
127) 1,2-dibromo-3-chloropr...	18.005	157	27326	51.18 ug/L	84
128) 1,3,5-trichlorobenzene	18.220	180	259940	55.28 ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	203593	52.46 ug/L	98
130) hexachlorobutadiene	19.001	225	131535	55.09 ug/L	98
131) naphthalene	19.143	128	290526	48.10 ug/L	99
132) 1,2,3-trichlorobenzene	19.389	180	162087	50.48 ug/L	98
133) hexachloroethane	17.533	201	111961	60.87 ug/L	98

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

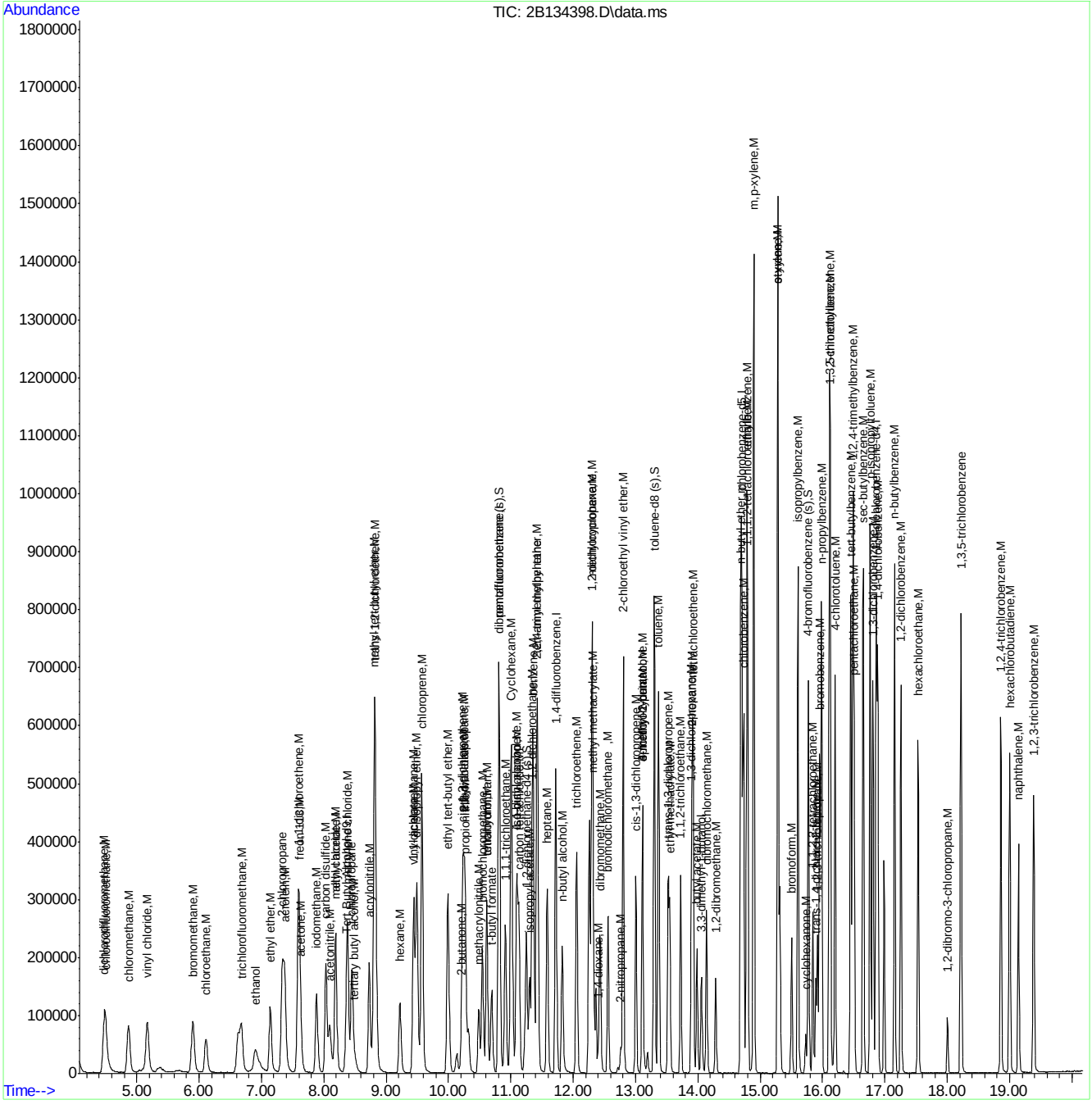
7.3.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134398.D
Acq On : 12 Sep 2015 11:11 am
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 11:37:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134428.D
Acq On : 14 Sep 2015 1:32 pm
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 16:19:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	98428	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	416852	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	403806	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	342924	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	183037	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	134268	48.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 97.10%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	154720	54.37	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.74%			
82) toluene-d8 (s)	13.302	98	457391	53.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.38%			
108) 4-bromofluorobenzene (s)	15.771	95	161345	52.52	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.04%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	45645	198.93	ug/L	79
3) ethanol	6.911	45	98859	4186.62	ug/L	99
4) 1,4-dioxane	12.410	88	23910	1181.69	ug/L	90
9) chlorodifluoromethane	4.504	51	94238	38.62	ug/L	94
10) dichlorodifluoromethane	4.488	85	153756	42.19	ug/L	99
12) chloromethane	4.871	50	141974	42.08	ug/L	96
13) vinyl chloride	5.175	62	136189	44.63	ug/L	95
15) bromomethane	5.904	94	97833	45.93	ug/L	98
16) chloroethane	6.114	64	72803	52.77	ug/L	96
18) trichlorofluoromethane	6.669	101	200302	53.94	ug/L	99
20) ethyl ether	7.146	74	54337	46.80	ug/L	97
21) acrolein	7.372	56	158467	431.35	ug/L	100
22) 2-chloropropane	7.335	43	185093	45.46	ug/L	90
24) 1,1-dichloroethene	7.597	96	88639	44.10	ug/L	92
25) acetone	7.634	43	29324	50.26	ug/L	94
26) allyl chloride	8.195	76	54401	50.22	ug/L #	83
27) acetonitrile	8.090	40	56457	452.28	ug/L	90
28) iodomethane	7.886	142	198356	45.46	ug/L	93
29) iso-butyl alcohol	11.094	74	10551	433.49	ug/L #	47
30) carbon disulfide	8.038	76	323273	44.89	ug/L	97
31) methylene chloride	8.384	84	104049	45.11	ug/L	97
32) methyl acetate	8.185	74	13688	43.59	ug/L #	75
33) 1-chloropropane	8.452	42	182407	47.48	ug/L	97
34) methyl tert butyl ether	8.814	73	549517	98.95	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	100384	44.53	ug/L	98
36) di-isopropyl ether	9.495	45	308453	45.81	ug/L	99
37) 2-butanone	10.198	72	10505	48.46	ug/L	98
38) 1,1-dichloroethane	9.438	63	184819	49.24	ug/L	99
39) chloroprene	9.574	53	331065	110.34	ug/L	95
40) acrylonitrile	8.730	53	170079	241.03	ug/L	99
41) vinyl acetate	9.448	86	16871	45.86	ug/L	75
42) ethyl tert-butyl ether	9.993	59	292828	49.60	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134428.D
Acq On : 14 Sep 2015 1:32 pm
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 16:19:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.245	45	11796	47.49	ug/L		94
44) 2,2-dichloropropane	10.261	77	169341	50.82	ug/L		95
45) cis-1,2-dichloroethene	10.229	96	114057	45.66	ug/L		95
46) propionitrile	10.271	54	116380	458.56	ug/L		99
47) bromochloromethane	10.549	128	61025	48.57	ug/L		96
48) tetrahydrofuran	10.617	42	24417	45.24	ug/L		99
49) chloroform	10.617	83	193246	49.99	ug/L		99
50) t-butyl formate	10.691	59	74564	51.67	ug/L		93
53) freon 113	7.608	151	86386	48.50	ug/L		94
54) methacrylonitrile	10.486	41	56596	49.29	ug/L		97
55) 1,1,1-trichloroethane	10.916	97	177929	53.09	ug/L		98
56) Cyclohexane	11.016	84	139327	46.14	ug/L		94
61) epichlorohydrin	13.113	57	39693	272.14	ug/L		55
62) n-butyl alcohol	11.823	56	106373	2754.45	ug/L		95
63) carbon tetrachloride	11.131	117	167208	59.66	ug/L		100
64) 1,1-dichloropropene	11.094	75	134815	53.74	ug/L		98
65) hexane	9.223	57	105223	40.34	ug/L		98
66) benzene	11.357	78	382561	52.01	ug/L		100
67) 2,2,4-trimethylpentane	11.420	57	289383	47.17	ug/L		93
68) tert-amyl methyl ether	11.425	73	252764	54.70	ug/L		97
69) heptane	11.587	57	67955	52.89	ug/L		99
70) isopropyl acetate	11.299	43	156075	52.51	ug/L		97
71) 1,2-dichloroethane	11.341	62	146460	62.18	ug/L		95
72) trichloroethene	12.054	95	106740	53.19	ug/L		98
74) 2-nitropropane	12.762	41	26737	61.06	ug/L		98
75) 2-chloroethyl vinyl ether	12.804	63	239526	262.57	ug/L		99
76) methyl methacrylate	12.321	100	23208	53.90	ug/L		90
77) 1,2-dichloropropane	12.300	63	95489	51.55	ug/L		97
78) dibromomethane	12.431	93	64718	55.89	ug/L		98
79) methylcyclohexane	12.306	83	145078	48.78	ug/L		99
80) bromodichloromethane	12.557	83	148674	56.44	ug/L		100
81) cis-1,3-dichloropropene	13.003	75	158221	51.67	ug/L		94
83) 4-methyl-2-pentanone	13.113	58	32045	54.22	ug/L	#	73
84) toluene	13.370	92	229625	48.64	ug/L		99
85) 3-methyl-1-butanol	13.108	55	94409	1639.55	ug/L		95
86) trans-1,3-dichloropropene	13.527	75	140613	52.95	ug/L		94
87) ethyl methacrylate	13.548	69	105318	52.26	ug/L		95
88) 1,1,2-trichloroethane	13.726	83	69606	51.66	ug/L		99
89) 2-hexanone	13.905	58	25669	52.19	ug/L		98
91) n-butyl ether	14.686	57	371331	48.61	ug/L		95
92) tetrachloroethene	13.920	164	109767	53.38	ug/L		98
93) 1,3-dichloropropane	13.900	76	130501	48.82	ug/L		94
94) butyl acetate	13.983	56	45418	48.55	ug/L		88
95) 3,3-dimethyl-1-butanol	14.057	57	58412	497.68	ug/L		98
96) dibromochloromethane	14.141	129	123819	54.18	ug/L		99
97) 1,2-dibromoethane	14.287	107	89869	49.84	ug/L		98
98) chlorobenzene	14.733	112	258911	51.00	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.786	131	111201	53.93	ug/L		96
100) ethylbenzene	14.796	91	421080	51.29	ug/L		97
101) m,p-xylene	14.896	106	331901	101.95	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134428.D
Acq On : 14 Sep 2015 1:32 pm
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 16:19:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.278	106	175758	51.30 ug/L	93
103) styrene	15.284	104	282873	51.43 ug/L	96
105) bromoform	15.504	173	94007	56.95 ug/L	99
107) isopropylbenzene	15.603	105	453887	54.81 ug/L	97
109) cyclohexanone	15.729	98	9979	165.20 ug/L	90
110) bromobenzene	15.955	156	138001	55.26 ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	101525	51.36 ug/L	100
112) trans-1,4-dichloro-2-b...	15.892	53	26098	53.89 ug/L	90
113) 1,2,3-trichloropropane	15.918	110	28326	55.15 ug/L	100
114) n-propylbenzene	15.981	91	498897	56.42 ug/L	97
115) 2-chlorotoluene	16.107	126	109792	51.57 ug/L	91
116) 4-chlorotoluene	16.196	91	308425	54.31 ug/L	97
117) 1,3,5-trimethylbenzene	16.123	105	371571	55.40 ug/L	98
118) tert-butylbenzene	16.448	119	334458	55.41 ug/L	94
119) pentachloroethane	16.505	167	94693	57.49 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	388046	59.27 ug/L	98
121) sec-butylbenzene	16.652	105	482296	54.12 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	245664	52.66 ug/L	98
123) p-isopropyltoluene	16.762	119	437137	56.18 ug/L	97
124) 1,4-dichlorobenzene	16.883	146	242703	52.90 ug/L	99
125) 1,2-dichlorobenzene	17.255	146	247821	55.54 ug/L	96
126) n-butylbenzene	17.155	92	207415	55.10 ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	25822	53.10 ug/L	94
128) 1,3,5-trichlorobenzene	18.220	180	238237	55.63 ug/L	97
129) 1,2,4-trichlorobenzene	18.859	180	190054	53.78 ug/L	100
130) hexachlorobutadiene	19.001	225	123526	56.81 ug/L	99
131) naphthalene	19.143	128	264225	48.04 ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	147303	50.37 ug/L	99
133) hexachloroethane	17.533	201	102073	60.93 ug/L	98

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

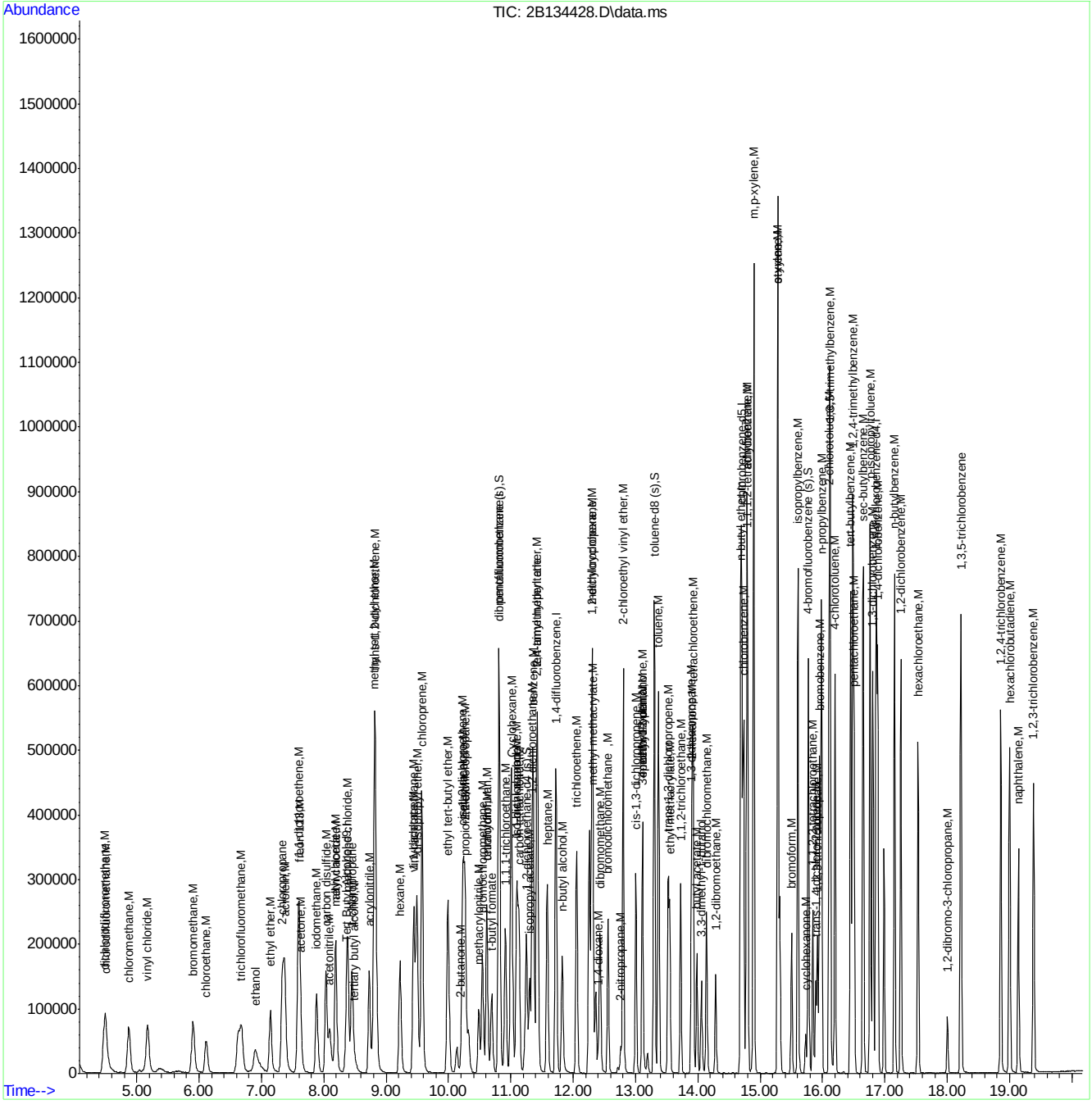
7.3.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134428.D
Acq On : 14 Sep 2015 1:32 pm
Operator : BridgetK
Sample : bs
Misc : ms90889,v2B5990,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 16:19:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134471.D
Acq On : 15 Sep 2015 10:25 am
Operator : BridgetK
Sample : bs
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 15 15:28:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	89060	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	390308	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	377420	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	326082	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	171793	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	127958	49.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 98.84%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	146916	55.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.28%			
82) toluene-d8 (s)	13.302	98	426915	53.12	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.24%			
108) 4-bromofluorobenzene (s)	15.771	95	152543	52.90	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	43501	209.52	ug/L	84
3) ethanol	6.905	45	89688	4197.76	ug/L	92
4) 1,4-dioxane	12.405	88	22181	1211.55	ug/L	86
9) chlorodifluoromethane	4.499	51	84689	37.06	ug/L	90
10) dichlorodifluoromethane	4.488	85	156610	45.90	ug/L	98
12) chloromethane	4.881	50	131518	41.63	ug/L	97
13) vinyl chloride	5.180	62	134799	47.18	ug/L	99
15) bromomethane	5.904	94	93943	47.11	ug/L	99
16) chloroethane	6.119	64	68791	53.25	ug/L	95
18) trichlorofluoromethane	6.685	101	202064	58.12	ug/L	96
20) ethyl ether	7.146	74	49873	45.88	ug/L	98
21) acrolein	7.377	56	179948	523.14	ug/L	100
22) 2-chloropropane	7.340	43	176797	46.38	ug/L	89
24) 1,1-dichloroethene	7.603	96	84705	45.01	ug/L	97
25) acetone	7.634	43	26349	48.23	ug/L	91
26) allyl chloride	8.195	76	50248	49.54	ug/L	87
27) acetonitrile	8.101	40	54303	464.61	ug/L	91
28) iodomethane	7.886	142	189939	46.49	ug/L	92
29) iso-butyl alcohol	11.094	74	10501	460.78	ug/L #	34
30) carbon disulfide	8.038	76	313417	46.49	ug/L	96
31) methylene chloride	8.384	84	100037	46.32	ug/L	96
32) methyl acetate	8.185	74	12531	42.61	ug/L #	83
33) 1-chloropropane	8.452	42	172726	48.02	ug/L	98
34) methyl tert butyl ether	8.819	73	516799	99.38	ug/L	95
35) trans-1,2-dichloroethene	8.829	96	96270	45.61	ug/L	97
36) di-isopropyl ether	9.495	45	292324	46.37	ug/L	98
37) 2-butanone	10.198	72	9653	47.56	ug/L	98
38) 1,1-dichloroethane	9.438	63	178223	50.71	ug/L	99
39) chloroprene	9.574	53	325245	115.77	ug/L	94
40) acrylonitrile	8.730	53	156959	237.57	ug/L	99
41) vinyl acetate	9.448	86	15876	46.09	ug/L	81
42) ethyl tert-butyl ether	9.993	59	273053	49.40	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134471.D
Acq On : 15 Sep 2015 10:25 am
Operator : BridgetK
Sample : bs
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 15 15:28:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.245	45	10857	46.68	ug/L		84
44) 2,2-dichloropropane	10.261	77	166110	53.24	ug/L		95
45) cis-1,2-dichloroethene	10.229	96	107804	46.09	ug/L		96
46) propionitrile	10.271	54	107500	452.38	ug/L		97
47) bromochloromethane	10.544	128	57634	48.99	ug/L		97
48) tetrahydrofuran	10.617	42	25730	50.92	ug/L		97
49) chloroform	10.617	83	187298	51.75	ug/L		99
50) t-butyl formate	10.691	59	70394	52.10	ug/L		92
53) freon 113	7.613	151	84839	50.87	ug/L		97
54) methacrylonitrile	10.486	41	50851	47.30	ug/L		97
55) 1,1,1-trichloroethane	10.916	97	176652	56.30	ug/L		99
56) Cyclohexane	11.011	84	133509	47.22	ug/L		90
61) epichlorohydrin	13.113	57	36537	268.01	ug/L		57
62) n-butyl alcohol	11.823	56	98870	2739.15	ug/L		95
63) carbon tetrachloride	11.131	117	165793	63.29	ug/L		99
64) 1,1-dichloropropene	11.100	75	130179	55.52	ug/L		99
65) hexane	9.223	57	84431	34.63	ug/L		99
66) benzene	11.357	78	362353	52.71	ug/L		99
67) 2,2,4-trimethylpentane	11.420	57	284225	49.57	ug/L		95
68) tert-amyl methyl ether	11.425	73	236764	54.82	ug/L		96
69) heptane	11.582	57	66410	55.30	ug/L		98
70) isopropyl acetate	11.304	43	145011	52.20	ug/L		98
71) 1,2-dichloroethane	11.346	62	139938	63.57	ug/L		92
72) trichloroethene	12.059	95	102085	54.43	ug/L		96
74) 2-nitropropane	12.767	41	25010	61.11	ug/L		97
75) 2-chloroethyl vinyl ether	12.804	63	222330	260.75	ug/L		99
76) methyl methacrylate	12.321	100	21732	54.00	ug/L	#	84
77) 1,2-dichloropropane	12.300	63	89530	51.71	ug/L		99
78) dibromomethane	12.431	93	60875	56.25	ug/L		96
79) methylcyclohexane	12.306	83	143943	51.78	ug/L		99
80) bromodichloromethane	12.563	83	142170	57.74	ug/L		99
81) cis-1,3-dichloropropene	13.008	75	150268	52.50	ug/L		92
83) 4-methyl-2-pentanone	13.113	58	29900	54.13	ug/L	#	74
84) toluene	13.370	92	216515	49.07	ug/L		98
85) 3-methyl-1-butanol	13.113	55	88620	1646.61	ug/L		98
86) trans-1,3-dichloropropene	13.527	75	133458	53.77	ug/L		94
87) ethyl methacrylate	13.548	69	97774	51.90	ug/L		94
88) 1,1,2-trichloroethane	13.726	83	66614	52.89	ug/L		97
89) 2-hexanone	13.905	58	23054	50.15	ug/L		95
91) n-butyl ether	14.686	57	344803	47.47	ug/L		96
92) tetrachloroethene	13.920	164	108392	55.43	ug/L		98
93) 1,3-dichloropropane	13.899	76	123332	48.52	ug/L		94
94) butyl acetate	13.989	56	42525	47.80	ug/L		99
95) 3,3-dimethyl-1-butanol	14.057	57	54548	488.77	ug/L		96
96) dibromochloromethane	14.141	129	118886	54.71	ug/L		99
97) 1,2-dibromoethane	14.287	107	84316	49.17	ug/L		99
98) chlorobenzene	14.733	112	249812	51.75	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	106508	54.32	ug/L		99
100) ethylbenzene	14.796	91	401424	51.43	ug/L		98
101) m,p-xylene	14.896	106	317837	102.67	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134471.D
Acq On : 15 Sep 2015 10:25 am
Operator : BridgetK
Sample : bs
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 15 15:28:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

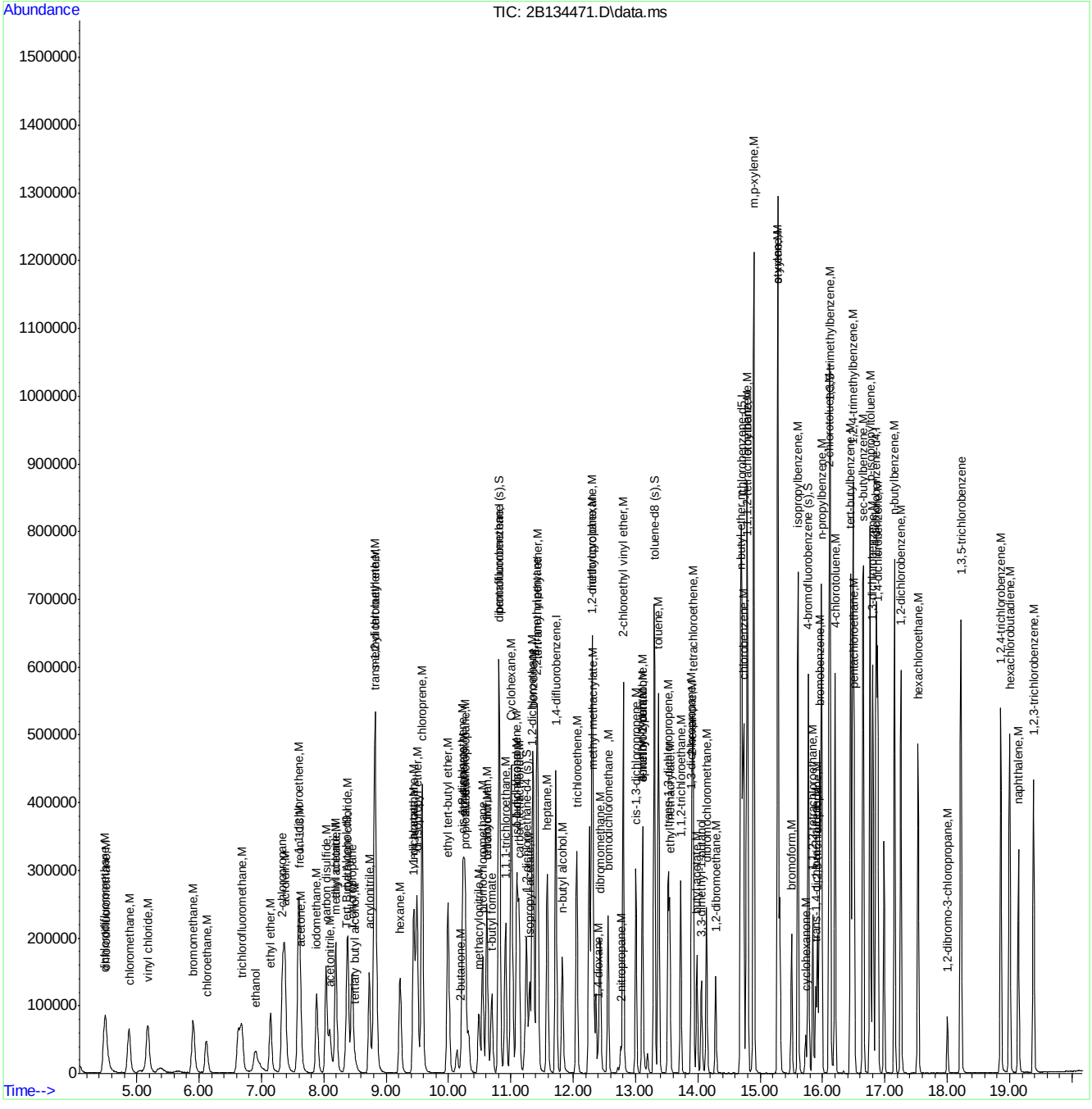
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	166572	51.13 ug/L	94
103) styrene	15.284	104	271858	51.98 ug/L	98
105) bromoform	15.504	173	87911	56.01 ug/L	96
107) isopropylbenzene	15.603	105	431624	55.54 ug/L	98
109) cyclohexanone	15.729	98	9257	163.28 ug/L	94
110) bromobenzene	15.955	156	130799	55.80 ug/L	98
111) 1,1,2,2-tetrachloroethane	15.845	83	95073	51.25 ug/L	98
112) trans-1,4-dichloro-2-b...	15.892	53	22624	49.78 ug/L	93
113) 1,2,3-trichloropropane	15.918	110	27392	56.83 ug/L	91
114) n-propylbenzene	15.981	91	486268	58.59 ug/L	98
115) 2-chlorotoluene	16.107	126	104967	52.53 ug/L	91
116) 4-chlorotoluene	16.201	91	297144	55.75 ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	363187	57.70 ug/L	96
118) tert-butylbenzene	16.448	119	326386	57.61 ug/L	94
119) pentachloroethane	16.505	167	90275	58.39 ug/L	96
120) 1,2,4-trimethylbenzene	16.484	105	375287	61.07 ug/L	97
121) sec-butylbenzene	16.652	105	466134	55.73 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	235945	53.89 ug/L	98
123) p-isopropyltoluene	16.762	119	417864	57.22 ug/L	97
124) 1,4-dichlorobenzene	16.883	146	231669	53.80 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	233238	55.69 ug/L	97
126) n-butylbenzene	17.155	92	199076	56.34 ug/L	97
127) 1,2-dibromo-3-chloropr...	18.000	157	23396	51.26 ug/L	91
128) 1,3,5-trichlorobenzene	18.220	180	229689	57.14 ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	181557	54.73 ug/L	99
130) hexachlorobutadiene	19.001	225	121628	59.59 ug/L	100
131) naphthalene	19.143	128	248832	48.20 ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	140616	51.23 ug/L	97
133) hexachloroethane	17.533	201	96423	61.32 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134471.D
Acq On : 15 Sep 2015 10:25 am
Operator : BridgetK
Sample : bs
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 15 15:28:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134520.D
Acq On : 16 Sep 2015 10:42 am
Operator : BridgetK
Sample : bs
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:47:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	78381	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	360401	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	348066	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	302416	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	160302	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	119040	49.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.58%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	138135	56.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.28%			
82) toluene-d8 (s)	13.302	98	389093	52.49	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.98%			
108) 4-bromofluorobenzene (s)	15.771	95	140161	52.09	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	39440	215.85	ug/L	72
3) ethanol	6.910	45	78040	4150.23	ug/L	100
4) 1,4-dioxane	12.405	88	19412	1204.77	ug/L	86
9) chlorodifluoromethane	4.504	51	107276	50.84	ug/L	95
10) dichlorodifluoromethane	4.488	85	116879	37.10	ug/L	98
12) chloromethane	4.881	50	100209	34.35	ug/L	98
13) vinyl chloride	5.186	62	104113	39.47	ug/L	99
15) bromomethane	5.909	94	78078	42.40	ug/L	98
16) chloroethane	6.119	64	56206	47.12	ug/L	94
18) trichlorofluoromethane	6.685	101	176355	54.93	ug/L	98
20) ethyl ether	7.152	74	46094	45.92	ug/L	99
21) acrolein	7.377	56	170480	536.74	ug/L	95
22) 2-chloropropane	7.340	43	163311	46.39	ug/L	85
24) 1,1-dichloroethene	7.603	96	80937	46.58	ug/L	97
25) acetone	7.634	43	23527	46.64	ug/L	100
26) allyl chloride	8.195	76	46040	49.16	ug/L #	83
27) acetonitrile	8.095	40	44752	414.67	ug/L	90
28) iodomethane	7.891	142	177941	47.16	ug/L	91
29) iso-butyl alcohol	11.094	74	9625	457.39	ug/L #	27
30) carbon disulfide	8.043	76	297562	47.80	ug/L	97
31) methylene chloride	8.384	84	92708	46.48	ug/L	99
32) methyl acetate	8.195	74	11931	43.94	ug/L	99
33) 1-chloropropane	8.457	42	160721	48.39	ug/L	97
34) methyl tert butyl ether	8.819	73	488163	101.67	ug/L	97
35) trans-1,2-dichloroethene	8.829	96	88794	45.56	ug/L	96
36) di-isopropyl ether	9.490	45	270067	46.40	ug/L	96
37) 2-butanone	10.208	72	8801	46.96	ug/L	92
38) 1,1-dichloroethane	9.443	63	162519	50.08	ug/L	98
39) chloroprene	9.579	53	135717	52.32	ug/L	94
40) acrylonitrile	8.735	53	139430	228.55	ug/L	98
41) vinyl acetate	9.448	86	14614	45.95	ug/L #	79
42) ethyl tert-butyl ether	9.993	59	259402	50.82	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134520.D
Acq On : 16 Sep 2015 10:42 am
Operator : BridgetK
Sample : bs
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:47:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	9387	43.71	ug/L		92
44) 2,2-dichloropropane	10.256	77	156726	54.40	ug/L		97
45) cis-1,2-dichloroethene	10.229	96	99312	45.98	ug/L		94
46) propionitrile	10.271	54	95332	434.46	ug/L		97
47) bromochloromethane	10.549	128	53660	49.39	ug/L		96
48) tetrahydrofuran	10.617	42	18671	40.01	ug/L		96
49) chloroform	10.617	83	175181	52.42	ug/L		99
50) t-butyl formate	10.696	59	58096	46.56	ug/L		97
53) freon 113	7.613	151	95073	61.73	ug/L		99
54) methacrylonitrile	10.486	41	45037	45.37	ug/L		95
55) 1,1,1-trichloroethane	10.916	97	166919	57.61	ug/L		99
56) Cyclohexane	11.016	84	121547	46.55	ug/L		96
61) epichlorohydrin	13.113	57	32789	260.80	ug/L		56
62) n-butyl alcohol	11.823	56	84961	2552.31	ug/L		97
63) carbon tetrachloride	11.131	117	158642	65.67	ug/L		97
64) 1,1-dichloropropene	11.094	75	121970	56.41	ug/L		96
65) hexane	9.223	57	88490	39.36	ug/L		98
66) benzene	11.357	78	328941	51.88	ug/L		99
67) 2,2,4-trimethylpentane	11.425	57	293154	55.44	ug/L		93
68) tert-amyl methyl ether	11.425	73	220834	55.44	ug/L		96
69) heptane	11.587	57	62129	56.10	ug/L		97
70) isopropyl acetate	11.299	43	128548	50.18	ug/L		97
71) 1,2-dichloroethane	11.341	62	133377	65.69	ug/L		91
72) trichloroethene	12.059	95	93378	53.99	ug/L		97
74) 2-nitropropane	12.762	41	22782	60.36	ug/L		90
75) 2-chloroethyl vinyl ether	12.804	63	195854	249.08	ug/L		100
76) methyl methacrylate	12.321	100	19761	53.24	ug/L	#	74
77) 1,2-dichloropropane	12.300	63	80612	50.48	ug/L		100
78) dibromomethane	12.431	93	56180	56.29	ug/L		99
79) methylcyclohexane	12.306	83	150998	58.90	ug/L		99
80) bromodichloromethane	12.557	83	132839	58.51	ug/L		99
81) cis-1,3-dichloropropene	13.008	75	135343	51.28	ug/L		95
83) 4-methyl-2-pentanone	13.113	58	26226	51.48	ug/L	#	79
84) toluene	13.370	92	198946	48.89	ug/L		99
85) 3-methyl-1-butanol	13.113	55	78974	1591.13	ug/L		95
86) trans-1,3-dichloropropene	13.527	75	121395	53.03	ug/L		92
87) ethyl methacrylate	13.548	69	86032	49.52	ug/L		94
88) 1,1,2-trichloroethane	13.726	83	59418	51.16	ug/L		96
89) 2-hexanone	13.905	58	20245	47.75	ug/L		93
91) n-butyl ether	14.686	57	300981	44.68	ug/L		94
92) tetrachloroethene	13.920	164	99284	54.75	ug/L		98
93) 1,3-dichloropropane	13.899	76	111302	47.21	ug/L		94
94) butyl acetate	13.989	56	37600	45.58	ug/L		100
95) 3,3-dimethyl-1-butanol	14.057	57	45599	440.55	ug/L		92
96) dibromochloromethane	14.141	129	110471	54.82	ug/L		99
97) 1,2-dibromoethane	14.287	107	77293	48.61	ug/L		99
98) chlorobenzene	14.733	112	230257	51.44	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	99355	54.64	ug/L		97
100) ethylbenzene	14.796	91	371310	51.29	ug/L		96
101) m,p-xylene	14.896	106	292596	101.92	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134520.D
Acq On : 16 Sep 2015 10:42 am
Operator : BridgetK
Sample : bs
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:47:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.284	106	149741	49.56	ug/L	92
103) styrene	15.284	104	243492	50.20	ug/L	93
105) bromoform	15.504	173	81280	55.84	ug/L	97
107) isopropylbenzene	15.603	105	394762	54.44	ug/L	97
109) cyclohexanone	15.735	98	8159	154.23	ug/L #	86
110) bromobenzene	15.955	156	119296	54.54	ug/L	97
111) 1,1,2,2-tetrachloroethane	15.845	83	84224	48.65	ug/L	97
112) trans-1,4-dichloro-2-b...	15.887	53	22558	53.19	ug/L #	77
113) 1,2,3-trichloropropane	15.918	110	25012	55.61	ug/L	96
114) n-propylbenzene	15.981	91	444178	57.36	ug/L	97
115) 2-chlorotoluene	16.107	126	95772	51.37	ug/L	88
116) 4-chlorotoluene	16.196	91	272059	54.70	ug/L	95
117) 1,3,5-trimethylbenzene	16.122	105	334461	56.94	ug/L	96
118) tert-butylbenzene	16.448	119	295150	55.83	ug/L	94
119) pentachloroethane	16.505	167	84455	58.54	ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	344520	60.09	ug/L	94
121) sec-butylbenzene	16.652	105	417032	53.44	ug/L	98
122) 1,3-dichlorobenzene	16.809	146	214492	52.50	ug/L	99
123) p-isopropyltoluene	16.762	119	383307	56.25	ug/L	96
124) 1,4-dichlorobenzene	16.883	146	212652	52.92	ug/L	98
125) 1,2-dichlorobenzene	17.255	146	212244	54.31	ug/L	97
126) n-butylbenzene	17.155	92	180298	54.68	ug/L	95
127) 1,2-dibromo-3-chloropr...	18.005	157	20958	49.21	ug/L	95
128) 1,3,5-trichlorobenzene	18.220	180	206346	55.01	ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	162080	52.36	ug/L	100
130) hexachlorobutadiene	19.001	225	110364	57.95	ug/L	98
131) naphthalene	19.142	128	219993	45.67	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	124207	48.50	ug/L	99
133) hexachloroethane	17.533	201	87867	59.89	ug/L	97

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

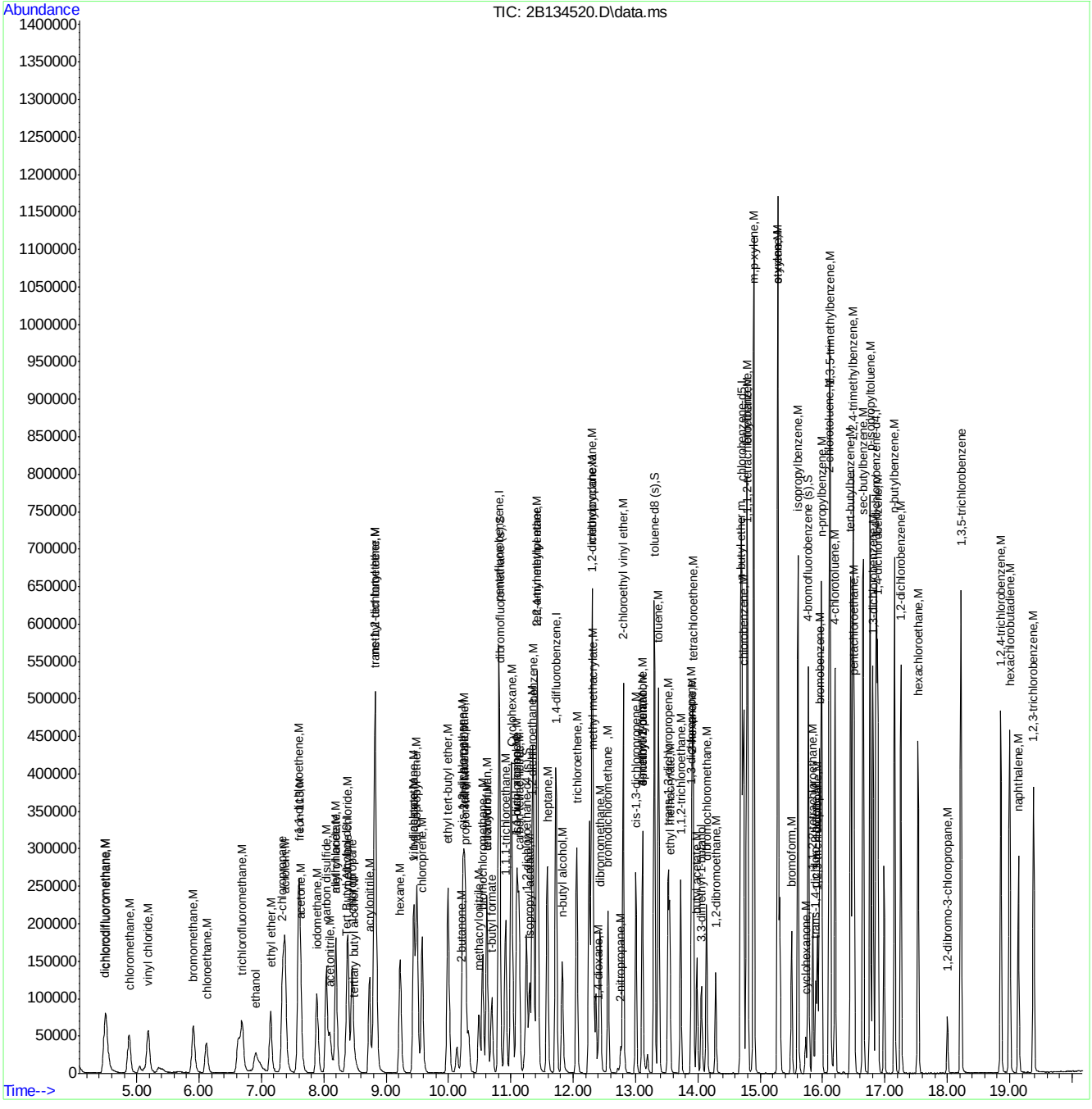
7.3.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134520.D
Acq On : 16 Sep 2015 10:42 am
Operator : BridgetK
Sample : bs
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:47:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134553.D
Acq On : 17 Sep 2015 12:03 pm
Operator : BridgetK
Sample : bs
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:12:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	93842	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	422581	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	411258	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	349721	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	189444	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	139869	49.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.78%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	164415	56.99	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.98%			
82) toluene-d8 (s)	13.302	98	456763	52.15	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.30%			
108) 4-bromofluorobenzene (s)	15.771	95	163521	51.43	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 102.86%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	47513	217.19	ug/L	88
3) ethanol	6.905	45	98452	4373.14	ug/L	98
4) 1,4-dioxane	12.410	88	22951	1189.73	ug/L	89
9) chlorodifluoromethane	4.504	51	108600	43.90	ug/L	93
10) dichlorodifluoromethane	4.488	85	169877	45.98	ug/L	98
12) chloromethane	4.876	50	150635	44.04	ug/L	99
13) vinyl chloride	5.180	62	144106	46.59	ug/L	99
15) bromomethane	5.909	94	100509	46.55	ug/L	91
16) chloroethane	6.119	64	74594	53.33	ug/L	94
18) trichlorofluoromethane	6.680	101	218534	58.05	ug/L	96
20) ethyl ether	7.146	74	56177	47.73	ug/L	97
21) acrolein	7.372	56	181667	487.80	ug/L	98
22) 2-chloropropane	7.340	43	210057	50.89	ug/L	88
24) 1,1-dichloroethene	7.597	96	94308	46.28	ug/L	90
25) acetone	7.634	43	30244	51.13	ug/L	91
26) allyl chloride	8.190	76	55882	50.88	ug/L #	71
27) acetonitrile	8.101	40	58213	460.02	ug/L	91
28) iodomethane	7.886	142	213622	48.29	ug/L	92
29) iso-butyl alcohol	11.100	74	11587	469.60	ug/L #	23
30) carbon disulfide	8.038	76	360684	49.41	ug/L	96
31) methylene chloride	8.384	84	111235	47.57	ug/L	99
32) methyl acetate	8.185	74	13808	43.37	ug/L #	80
33) 1-chloropropane	8.452	42	203690	52.30	ug/L	97
34) methyl tert butyl ether	8.819	73	570444	101.32	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	106467	46.59	ug/L	94
36) di-isopropyl ether	9.495	45	331154	48.52	ug/L	98
37) 2-butanone	10.208	72	10914	49.66	ug/L	98
38) 1,1-dichloroethane	9.438	63	201548	52.97	ug/L	100
39) chloroprene	9.574	53	157768	51.87	ug/L	92
40) acrylonitrile	8.730	53	177127	247.62	ug/L	99
41) vinyl acetate	9.448	86	17234	46.21	ug/L #	56
42) ethyl tert-butyl ether	9.993	59	304481	50.88	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134553.D
Acq On : 17 Sep 2015 12:03 pm
Operator : BridgetK
Sample : bs
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:12:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.250	45	11900	47.26	ug/L		69
44)	2,2-dichloropropane	10.261	77	185800	55.00	ug/L		94
45)	cis-1,2-dichloroethene	10.229	96	120366	47.53	ug/L		95
46)	propionitrile	10.271	54	118652	461.17	ug/L		97
47)	bromochloromethane	10.549	128	64503	50.64	ug/L		98
48)	tetrahydrofuran	10.617	42	24748	45.23	ug/L		94
49)	chloroform	10.617	83	207899	53.05	ug/L		98
50)	t-butyl formate	10.696	59	75165	51.38	ug/L		94
53)	freon 113	7.613	151	99568	55.14	ug/L		98
54)	methacrylonitrile	10.486	41	59614	51.22	ug/L		93
55)	1,1,1-trichloroethane	10.916	97	197238	58.06	ug/L		98
56)	Cyclohexane	11.016	84	149403	48.80	ug/L		93
61)	epichlorohydrin	13.108	57	39773	267.74	ug/L		57
62)	n-butyl alcohol	11.823	56	103120	2621.83	ug/L		93
63)	carbon tetrachloride	11.131	117	187403	65.66	ug/L		99
64)	1,1-dichloropropene	11.094	75	147050	57.56	ug/L		97
65)	hexane	9.223	57	108934	41.01	ug/L		97
66)	benzene	11.357	78	399771	53.37	ug/L		99
67)	2,2,4-trimethylpentane	11.420	57	328224	52.53	ug/L		92
68)	tert-amyl methyl ether	11.425	73	261671	55.60	ug/L		95
69)	heptane	11.587	57	68639	52.46	ug/L		97
70)	isopropyl acetate	11.304	43	161110	53.22	ug/L		96
71)	1,2-dichloroethane	11.341	62	161715	67.41	ug/L		95
72)	trichloroethene	12.054	95	110889	54.26	ug/L		99
74)	2-nitropropane	12.762	41	28795	64.57	ug/L		89
75)	2-chloroethyl vinyl ether	12.804	63	250860	270.01	ug/L		100
76)	methyl methacrylate	12.321	100	22897	52.21	ug/L	#	71
77)	1,2-dichloropropane	12.300	63	100458	53.25	ug/L		99
78)	dibromomethane	12.431	93	67432	57.18	ug/L		96
79)	methylcyclohexane	12.306	83	163123	53.85	ug/L		96
80)	bromodichloromethane	12.563	83	162042	60.40	ug/L		99
81)	cis-1,3-dichloropropene	13.003	75	166333	53.33	ug/L		91
83)	4-methyl-2-pentanone	13.113	58	32434	53.89	ug/L	#	67
84)	toluene	13.370	92	237434	49.39	ug/L		97
85)	3-methyl-1-butanol	13.108	55	95246	1624.11	ug/L		95
86)	trans-1,3-dichloropropene	13.522	75	149430	55.25	ug/L		92
87)	ethyl methacrylate	13.548	69	108425	52.82	ug/L		91
88)	1,1,2-trichloroethane	13.727	83	73147	53.30	ug/L		97
89)	2-hexanone	13.905	58	25232	50.37	ug/L		85
91)	n-butyl ether	14.686	57	382527	49.10	ug/L		93
92)	tetrachloroethene	13.920	164	115584	55.11	ug/L		98
93)	1,3-dichloropropane	13.900	76	137690	50.51	ug/L		90
94)	butyl acetate	13.983	56	44155	46.28	ug/L	#	85
95)	3,3-dimethyl-1-butanol	14.057	57	56686	473.59	ug/L		95
96)	dibromochloromethane	14.141	129	131944	56.62	ug/L		98
97)	1,2-dibromoethane	14.288	107	93728	50.97	ug/L		100
98)	chlorobenzene	14.733	112	271865	52.52	ug/L		99
99)	1,1,1,2-tetrachloroethane	14.786	131	118328	56.27	ug/L		96
100)	ethylbenzene	14.796	91	439705	52.52	ug/L		98
101)	m,p-xylene	14.896	106	344903	103.89	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134553.D
Acq On : 17 Sep 2015 12:03 pm
Operator : BridgetK
Sample : bs
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:12:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.278	106	183548	52.53 ug/L	94
103) styrene	15.284	104	290957	51.87 ug/L	92
105) bromoform	15.504	173	100894	59.94 ug/L	98
107) isopropylbenzene	15.604	105	468719	54.69 ug/L	97
109) cyclohexanone	15.729	98	24475	391.47 ug/L #	85
110) bromobenzene	15.955	156	142191	55.01 ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	103925	50.80 ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	27809	55.48 ug/L #	80
113) 1,2,3-trichloropropane	15.918	110	29536	55.56 ug/L	92
114) n-propylbenzene	15.981	91	527403	57.63 ug/L	97
115) 2-chlorotoluene	16.107	126	115214	52.29 ug/L	92
116) 4-chlorotoluene	16.196	91	322582	54.88 ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	391441	56.39 ug/L	95
118) tert-butylbenzene	16.448	119	352650	56.44 ug/L	94
119) pentachloroethane	16.500	167	100465	58.93 ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	405203	59.80 ug/L	95
121) sec-butylbenzene	16.652	105	501712	54.40 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	254805	52.77 ug/L	98
123) p-isopropyltoluene	16.762	119	453909	56.36 ug/L	98
124) 1,4-dichlorobenzene	16.883	146	251678	53.00 ug/L	99
125) 1,2-dichlorobenzene	17.255	146	255321	55.28 ug/L	95
126) n-butylbenzene	17.155	92	215080	55.20 ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	25918	51.50 ug/L	92
128) 1,3,5-trichlorobenzene	18.220	180	250340	56.47 ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	200803	54.90 ug/L	99
130) hexachlorobutadiene	19.001	225	128304	57.01 ug/L	98
131) naphthalene	19.143	128	270815	47.57 ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	159454	52.69 ug/L	100
133) hexachloroethane	17.533	201	109573	63.20 ug/L	99

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

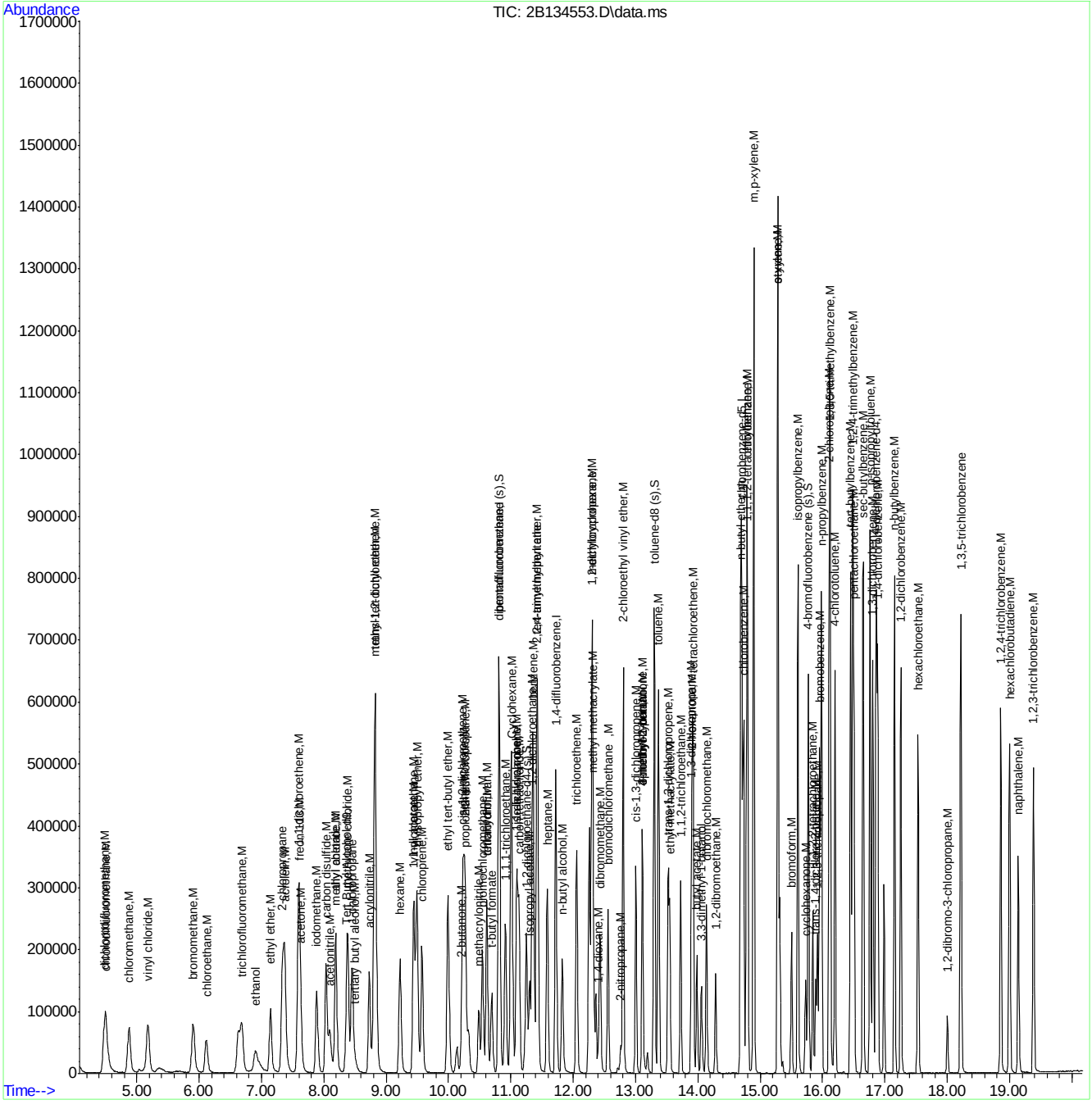
7.3.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134553.D
Acq On : 17 Sep 2015 12:03 pm
Operator : BridgetK
Sample : bs
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 16:12:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147895.D
Acq On : 9 Sep 2015 3:58 pm
Operator : BridgetK
Sample : jc3254-6ms
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 09:54:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.585	65	76606	500.00	ug/L	0.00
5) pentafluorobenzene	10.307	168	334474	50.00	ug/L	0.01
50) 1,4-difluorobenzene	11.465	114	377873	50.00	ug/L	0.02
78) chlorobenzene-d5	15.665	117	382411	50.00	ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.423	152	224982	50.00	ug/L	0.01

System Monitoring Compounds						
42) dibromofluoromethane (s)	10.322	113	127356	54.24	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.48%			
43) 1,2-dichloroethane-d4 (s)	10.857	65	134719	55.39	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 110.78%			
70) toluene-d8 (s)	13.657	98	469126	57.06	ug/L	0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 114.12%			
95) 4-bromofluorobenzene (s)	17.149	95	191338	53.68	ug/L	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.36%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.717	59	39846	206.72	ug/L	100
3) ethyl alcohol	6.180	45	90397	3918.79	ug/L	96
4) 1,4-dioxane	12.409	88	33587	1800.75	ug/L #	96
6) chlorodifluoromethane	3.983	51	116667	43.90	ug/L	96
7) dichlorodifluoromethane	3.957	85	181043	53.74	ug/L	100
8) chloromethane	4.309	50	169104	43.37	ug/L	97
9) vinyl chloride	4.565	62	165008	48.42	ug/L	99
10) bromomethane	5.237	94	111853	50.39	ug/L	99
11) chloroethane	5.425	64	81813	53.97	ug/L	93
12) trichlorofluoromethane	5.908	101	219430	53.85	ug/L	99
13) ethyl ether	6.364	74	50367	44.44	ug/L	92
14) acrolein	6.631	56	169053	422.56	ug/L	99
15) 1,1-dichloroethene	6.804	96	101466	46.90	ug/L	98
16) 2-chloropropane	6.563	43	199793	44.54	ug/L	96
17) acetone	6.883	58	6090	38.16	ug/L #	77
18) allyl chloride	7.397	76	60737	50.81	ug/L #	88
19) acetonitrile	7.360	40	67476	359.17	ug/L	92
20) iodomethane	7.098	142	223968	46.85	ug/L	96
21) carbon disulfide	7.224	76	373783	47.87	ug/L	100
22) methylene chloride	7.601	84	116438	46.11	ug/L	92
23) methyl acetate	7.397	74	11380	37.77	ug/L #	86
24) 1-chloropropane	7.654	63	9792	47.19	ug/L	97
25) methyl tert butyl ether	8.021	73	604353	88.15	ug/L	95
26) trans-1,2-dichloroethene	8.042	96	112310	46.35	ug/L	94
27) di-isopropyl ether	8.739	45	349449	39.70	ug/L	86
28) 2-butanone	9.599	72	8997	43.71	ug/L	84
29) 1,1-dichloroethane	8.713	63	207832	45.91	ug/L	99
30) chloroprene	8.844	53	388779	109.36	ug/L	99
31) acrylonitrile	7.994	53	139510	190.39	ug/L	98
32) vinyl acetate	8.723	86	15848	46.54	ug/L	40
33) ethyl tert-butyl ether	9.305	59	355926	44.88	ug/L	98
34) ethyl acetate	9.636	45	9995	36.96	ug/L	91
35) 2,2-dichloropropane	9.630	77	205967	51.69	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147895.D
Acq On : 9 Sep 2015 3:58 pm
Operator : BridgetK
Sample : jc3254-6ms
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 09:54:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.609	96	124435	46.03	ug/L		98
37) propionitrile	9.719	54	97041	363.79	ug/L		93
38) tert-Butyl Formate	10.155	59	89270	40.72	ug/L		98
39) bromochloromethane	9.992	128	63039	45.53	ug/L		94
40) tetrahydrofuran	10.050	42	20047	33.97	ug/L		88
41) chloroform	10.071	83	212667	47.41	ug/L		98
44) freon 113	6.794	151	100236	53.94	ug/L		98
45) methacrylonitrile	9.950	67	31153	40.87	ug/L		86
46) 1,1,1-trichloroethane	10.401	97	204926	51.00	ug/L		97
47) cyclohexane	10.490	84	163349	48.32	ug/L		91
48) isobutyl alcohol	10.626	74	11331	395.78	ug/L	#	60
49) iso-octane	11.014	57	386610	46.39	ug/L		98
51) epichlorohydrin	13.206	57	109	0.58	ug/L	#	13
52) n-butyl alcohol	11.638	56	96285	1841.00	ug/L		96
53) carbon tetrachloride	10.653	117	193353	52.38	ug/L		97
54) 1,1-dichloropropene	10.626	75	157391	48.91	ug/L		98
55) hexane	8.419	86	9575	28.06	ug/L	#	68
56) benzene	10.962	78	435463	45.55	ug/L		100
57) tert-amyl methyl ether	11.046	87	75500	47.10	ug/L		95
58) heptane	11.240	57	79363	51.66	ug/L		99
59) isopropyl acetate	10.925	43	150946	38.99	ug/L		95
60) 1,2-dichloroethane	10.978	62	149939	48.13	ug/L		99
61) trichloroethene	11.890	130	126718	48.03	ug/L		98
63) 2-chloroethyl vinyl ether	12.996	63	54173	41.02	ug/L		97
64) methyl methacrylate	12.304	69	56050	44.81	ug/L		94
65) 1,2-dichloropropane	12.252	63	114376	44.45	ug/L		98
66) dibromomethane	12.435	93	68066	45.30	ug/L		96
67) methylcyclohexane	12.199	83	185619	48.22	ug/L		97
68) bromodichloromethane	12.624	83	169598	48.31	ug/L		99
69) cis-1,3-dichloropropene	13.258	75	198326	48.40	ug/L		97
71) 4-methyl-2-pentanone	13.437	58	34047	45.11	ug/L		98
72) toluene	13.751	92	284318	48.46	ug/L		99
73) 3-methyl-1-butanol	13.447	55	101640	1175.38	ug/L		91
74) trans-1,3-dichloropropene	14.024	75	170989	47.07	ug/L		99
75) ethyl methacrylate	14.066	69	122826	46.78	ug/L		91
76) 1,1,2-trichloroethane	14.302	83	82312	46.76	ug/L		99
77) 2-hexanone	14.585	58	28520	44.32	ug/L		94
79) 3,3-Dimethyl-1-butanol	14.810	57	82217	368.50	ug/L		98
80) tetrachloroethene	14.527	164	118846	43.48	ug/L		98
81) 1,3-dichloropropane	14.548	76	156101	41.18	ug/L		94
82) butyl acetate	14.711	56	56709	38.58	ug/L	#	83
83) dibromochloromethane	14.879	129	141515	44.55	ug/L		98
84) 1,2-dibromoethane	15.073	107	101614	41.60	ug/L		94
85) n-butyl ether	15.691	57	510958	41.47	ug/L		98
86) chlorobenzene	15.707	112	345492	44.71	ug/L		99
87) 1,1,1,2-tetrachloroethane	15.796	131	142543	44.66	ug/L		98
88) ethylbenzene	15.807	91	569223	43.86	ug/L		98
89) m,p-xylene	15.953	106	439221	89.18	ug/L		95
90) o-xylene	16.493	106	233367	45.31	ug/L		97
91) styrene	16.504	104	384001	45.70	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147895.D
Acq On : 9 Sep 2015 3:58 pm
Operator : BridgetK
Sample : jc3254-6ms
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 09:54:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.792	173	103457	43.34 ug/L	97
94) isopropylbenzene	16.934	105	615538	45.72 ug/L	99
96) cyclohexanone	17.107	55	25891	143.29 ug/L	96
97) bromobenzene	17.358	156	178830	45.23 ug/L	97
98) 1,1,2,2-tetrachloroethane	17.280	83	131345	41.38 ug/L	99
99) trans-1,4-dichloro-2-b...	17.338	53	25794	33.25 ug/L #	81
100) 1,2,3-trichloropropane	17.358	110	33993	42.99 ug/L	95
101) n-propylbenzene	17.411	91	715311	47.63 ug/L	99
102) 2-chlorotoluene	17.552	126	155675	44.31 ug/L	88
103) 4-chlorotoluene	17.668	91	442886	45.74 ug/L	100
104) 1,3,5-trimethylbenzene	17.589	105	531121	45.51 ug/L	99
105) tert-butylbenzene	17.967	119	477642	46.10 ug/L	97
106) pentachloroethane	18.030	167	128184	49.71 ug/L	99
107) 1,2,4-trimethylbenzene	18.014	105	567524	49.18 ug/L	100
108) sec-butylbenzene	18.197	105	713918	46.69 ug/L	99
109) 1,3-dichlorobenzene	18.360	146	348734	47.20 ug/L	100
110) p-isopropyltoluene	18.328	119	633735	47.09 ug/L	99
111) 1,4-dichlorobenzene	18.444	146	351461	47.13 ug/L	99
112) 1,2-dichlorobenzene	18.832	146	355402	48.10 ug/L	99
113) benzyl chloride	18.570	91	348373	53.48 ug/L	99
114) n-butylbenzene	18.737	92	320760	50.24 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.566	157	34043	45.20 ug/L	91
116) 1,3,5-trichlorobenzene	19.739	180	335153	48.49 ug/L	98
117) hexachlorobutadiene	20.441	225	171738	48.86 ug/L	98
118) naphthalene	20.588	128	488315	52.90 ug/L	98
119) 1,2,4-trichlorobenzene	20.326	180	292658	51.31 ug/L	100
120) 1,2,3-trichlorobenzene	20.808	180	251077	51.48 ug/L	100
121) hexachloroethane	19.083	201	133384	47.93 ug/L	99

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

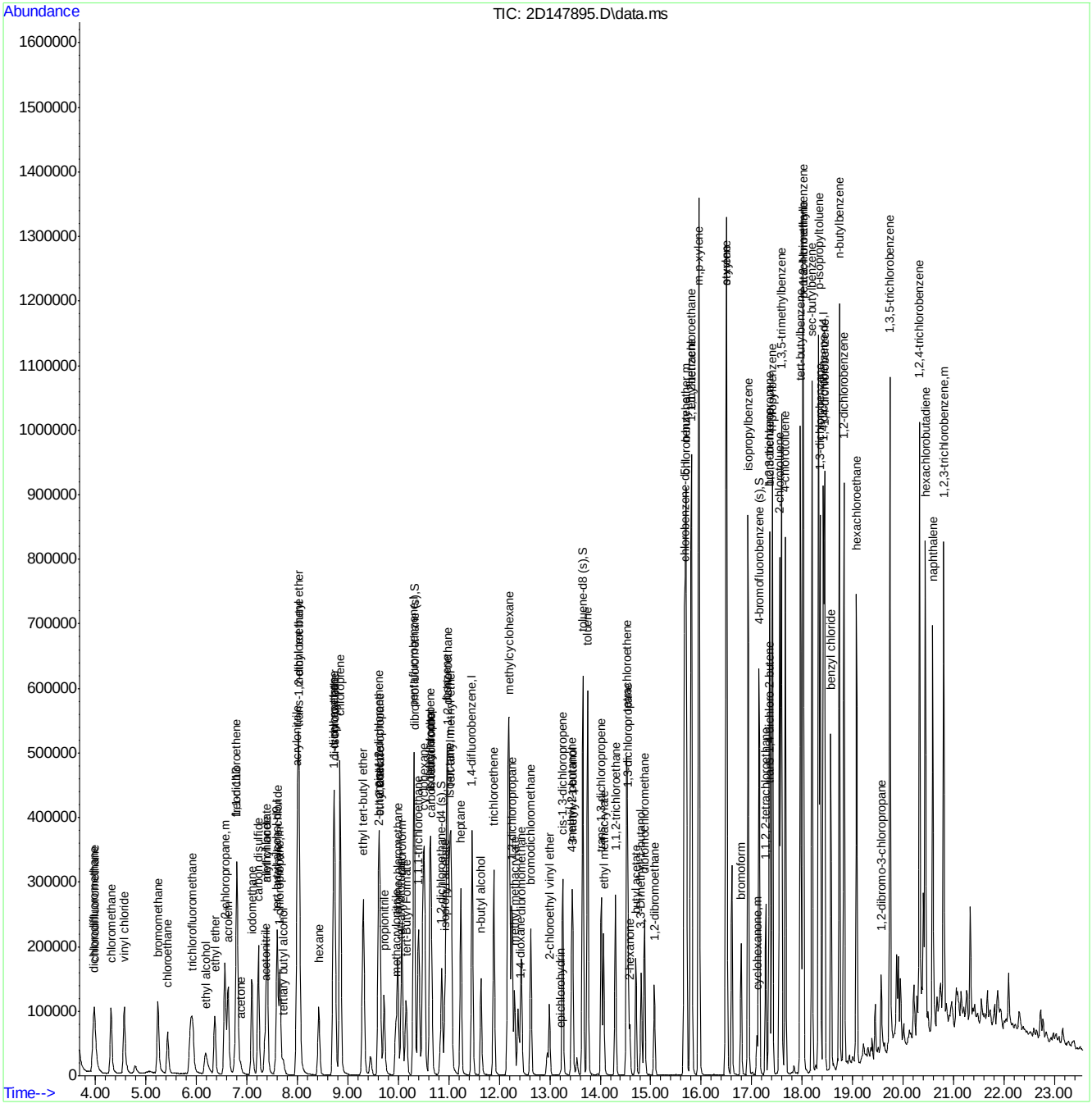
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147895.D
Acq On : 9 Sep 2015 3:58 pm
Operator : BridgetK
Sample : jc3254-6ms
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 09:54:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134312.D
Acq On : 10 Sep 2015 4:25 pm
Operator : BridgetK
Sample : jc3137-3ms
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 12 14:51:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	114829	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	531471	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	545556	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	480543	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	246230	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	179652	50.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.92%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	179679	49.52	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.04%			
82) toluene-d8 (s)	13.302	98	620125	53.38	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.76%			
108) 4-bromofluorobenzene (s)	15.771	95	213549	51.67	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.34%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	52267	195.25	ug/L	91
3) ethanol	6.900	45	117264	4256.76	ug/L	98
4) 1,4-dioxane	12.410	88	30826	1305.90	ug/L	96
9) chlorodifluoromethane	4.499	51	126032	40.51	ug/L	97
10) dichlorodifluoromethane	4.478	85	205071	44.14	ug/L	97
12) chloromethane	4.866	50	202785	47.14	ug/L	99
13) vinyl chloride	5.170	62	203433	52.29	ug/L	100
15) bromomethane	5.893	94	135728	49.98	ug/L	98
16) chloroethane	6.108	64	103223	58.68	ug/L	98
18) trichlorofluoromethane	6.669	101	230622	48.71	ug/L	99
20) ethyl ether	7.141	74	69892	47.22	ug/L	96
21) acrolein	7.372	56	225604	481.66	ug/L	99
22) 2-chloropropane	7.335	43	209975	40.45	ug/L	99
24) 1,1-dichloroethene	7.592	96	108199	42.22	ug/L	97
25) acetone	7.634	43	28738	38.63	ug/L	96
26) allyl chloride	8.190	76	65528	47.44	ug/L	92
27) acetonitrile	8.095	40	66607	418.52	ug/L	96
28) iodomethane	7.886	142	229977	41.34	ug/L	100
29) iso-butyl alcohol	11.094	74	11819	380.86	ug/L #	37
30) carbon disulfide	8.033	76	404459	44.05	ug/L	97
31) methylene chloride	8.379	84	135785	46.17	ug/L	88
32) methyl acetate	8.185	74	17668	44.13	ug/L	98
33) 1-chloropropane	8.452	42	197157	40.25	ug/L	99
34) methyl tert butyl ether	8.814	73	637048	89.97	ug/L	95
35) trans-1,2-dichloroethene	8.824	96	133343	46.39	ug/L	98
36) di-isopropyl ether	9.490	45	366502	42.70	ug/L	96
37) 2-butanone	10.203	72	13247	47.93	ug/L	87
38) 1,1-dichloroethane	9.438	63	226473	47.32	ug/L	99
39) chloroprene	9.574	53	396804	103.73	ug/L	95
40) acrylonitrile	8.725	53	202899	225.53	ug/L	97
41) vinyl acetate	9.448	86	21989	46.88	ug/L	95
42) ethyl tert-butyl ether	9.993	59	342118	45.45	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134312.D
Acq On : 10 Sep 2015 4:25 pm
Operator : BridgetK
Sample : jc3137-3ms
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 12 14:51:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) ethyl acetate	10.250	45	13276	41.92 ug/L	87
44) 2,2-dichloropropane	10.256	77	183095	43.09 ug/L	96
45) cis-1,2-dichloroethene	10.224	96	268122	84.18 ug/L	96
46) propionitrile	10.277	54	141257	436.55 ug/L	98
47) bromochloromethane	10.544	128	77294	48.25 ug/L	95
48) tetrahydrofuran	10.617	42	24161	35.11 ug/L	97
49) chloroform	10.612	83	229547	46.58 ug/L	97
50) t-butyl formate	10.696	59	78198	42.50 ug/L	94
53) freon 113	7.608	151	116517	51.31 ug/L	97
54) methacrylonitrile	10.486	41	57965	39.60 ug/L	96
55) 1,1,1-trichloroethane	10.911	97	198212	46.39 ug/L	99
56) Cyclohexane	11.011	84	175897	45.68 ug/L	94
61) epichlorohydrin	13.113	57	49202	249.68 ug/L	56
62) n-butyl alcohol	11.823	56	137926	2643.52 ug/L	97
63) carbon tetrachloride	11.131	117	182801	48.28 ug/L	99
64) 1,1-dichloropropene	11.094	75	162974	48.09 ug/L	99
65) hexane	9.223	57	126181	35.81 ug/L	95
66) benzene	11.357	78	487266	49.03 ug/L	100
67) 2,2,4-trimethylpentane	11.420	57	385047	46.46 ug/L	97
68) tert-amyl methyl ether	11.425	73	309642	49.60 ug/L	96
69) heptane	11.582	57	88664	51.08 ug/L	97
70) isopropyl acetate	11.299	43	171636	42.74 ug/L	97
71) 1,2-dichloroethane	11.341	62	157071	49.36 ug/L	98
72) trichloroethene	12.054	95	496003	182.96 ug/L	98
74) 2-nitropropane	12.762	41	24308	41.09 ug/L	98
75) 2-chloroethyl vinyl ether	12.804	63	81358	66.01 ug/L	97
76) methyl methacrylate	12.321	100	28717	49.36 ug/L	93
77) 1,2-dichloropropane	12.300	63	119642	47.80 ug/L	99
78) dibromomethane	12.431	93	77239	49.37 ug/L	97
79) methylcyclohexane	12.306	83	199891	49.74 ug/L	97
80) bromodichloromethane	12.557	83	174495	49.03 ug/L	99
81) cis-1,3-dichloropropene	13.008	75	193351	46.74 ug/L	93
83) 4-methyl-2-pentanone	13.113	58	41506	51.98 ug/L #	86
84) toluene	13.370	92	289925	45.46 ug/L	97
85) 3-methyl-1-butanol	13.113	55	124540	1600.86 ug/L	92
86) trans-1,3-dichloropropene	13.527	75	163999	45.71 ug/L	94
87) ethyl methacrylate	13.548	69	127657	46.88 ug/L	95
88) 1,1,2-trichloroethane	13.726	83	92013	50.54 ug/L	99
89) 2-hexanone	13.905	58	30106	45.30 ug/L	93
91) n-butyl ether	14.686	57	452158	42.24 ug/L	98
92) tetrachloroethene	13.920	164	136416	47.34 ug/L	97
93) 1,3-dichloropropane	13.900	76	166686	44.50 ug/L	95
94) butyl acetate	13.989	56	58797	44.85 ug/L	90
95) 3,3-dimethyl-1-butanol	14.057	57	74375	452.21 ug/L	94
96) dibromochloromethane	14.141	129	147117	45.94 ug/L	99
97) 1,2-dibromoethane	14.287	107	113371	44.87 ug/L	99
98) chlorobenzene	14.733	112	335621	47.18 ug/L	98
99) 1,1,1,2-tetrachloroethane	14.786	131	132957	46.01 ug/L	99
100) ethylbenzene	14.796	91	513917	44.67 ug/L	100
101) m,p-xylene	14.896	106	423920	92.92 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134312.D
Acq On : 10 Sep 2015 4:25 pm
Operator : BridgetK
Sample : jc3137-3ms
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 12 14:51:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.284	106	222027	46.24	ug/L	100
103) styrene	15.284	104	357662	46.40	ug/L	97
105) bromoform	15.504	173	108667	46.98	ug/L	99
107) isopropylbenzene	15.603	105	540958	48.56	ug/L	99
109) cyclohexanone	15.729	98	12249	150.74	ug/L	99
110) bromobenzene	15.955	156	168821	50.25	ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	134456	50.57	ug/L	99
112) trans-1,4-dichloro-2-b...	15.892	53	21637	33.21	ug/L	96
113) 1,2,3-trichloropropane	15.918	110	34466	49.89	ug/L	99
114) n-propylbenzene	15.981	91	615121	51.71	ug/L	100
115) 2-chlorotoluene	16.107	126	141432	49.38	ug/L	96
116) 4-chlorotoluene	16.201	91	371482	48.62	ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	449785	49.85	ug/L	99
118) tert-butylbenzene	16.448	119	400785	49.35	ug/L	99
119) pentachloroethane	16.505	167	112687	50.85	ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	464487	52.74	ug/L	100
121) sec-butylbenzene	16.652	105	587248	48.99	ug/L	99
122) 1,3-dichlorobenzene	16.809	146	309128	49.26	ug/L	99
123) p-isopropyltoluene	16.762	119	523168	49.98	ug/L	99
124) 1,4-dichlorobenzene	16.883	146	303678	49.20	ug/L	98
125) 1,2-dichlorobenzene	17.260	146	307434	51.21	ug/L	97
126) n-butylbenzene	17.155	92	254448	50.24	ug/L	99
127) 1,2-dibromo-3-chloropr...	18.005	157	30404	46.48	ug/L	96
128) 1,3,5-trichlorobenzene	18.220	180	288869	50.14	ug/L	95
129) 1,2,4-trichlorobenzene	18.859	180	231252	48.64	ug/L	98
130) hexachlorobutadiene	19.001	225	140283	47.95	ug/L	99
131) naphthalene	19.143	128	333863	45.12	ug/L	100
132) 1,2,3-trichlorobenzene	19.384	180	189033	48.05	ug/L	100
133) hexachloroethane	17.533	201	115035	51.04	ug/L	99

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

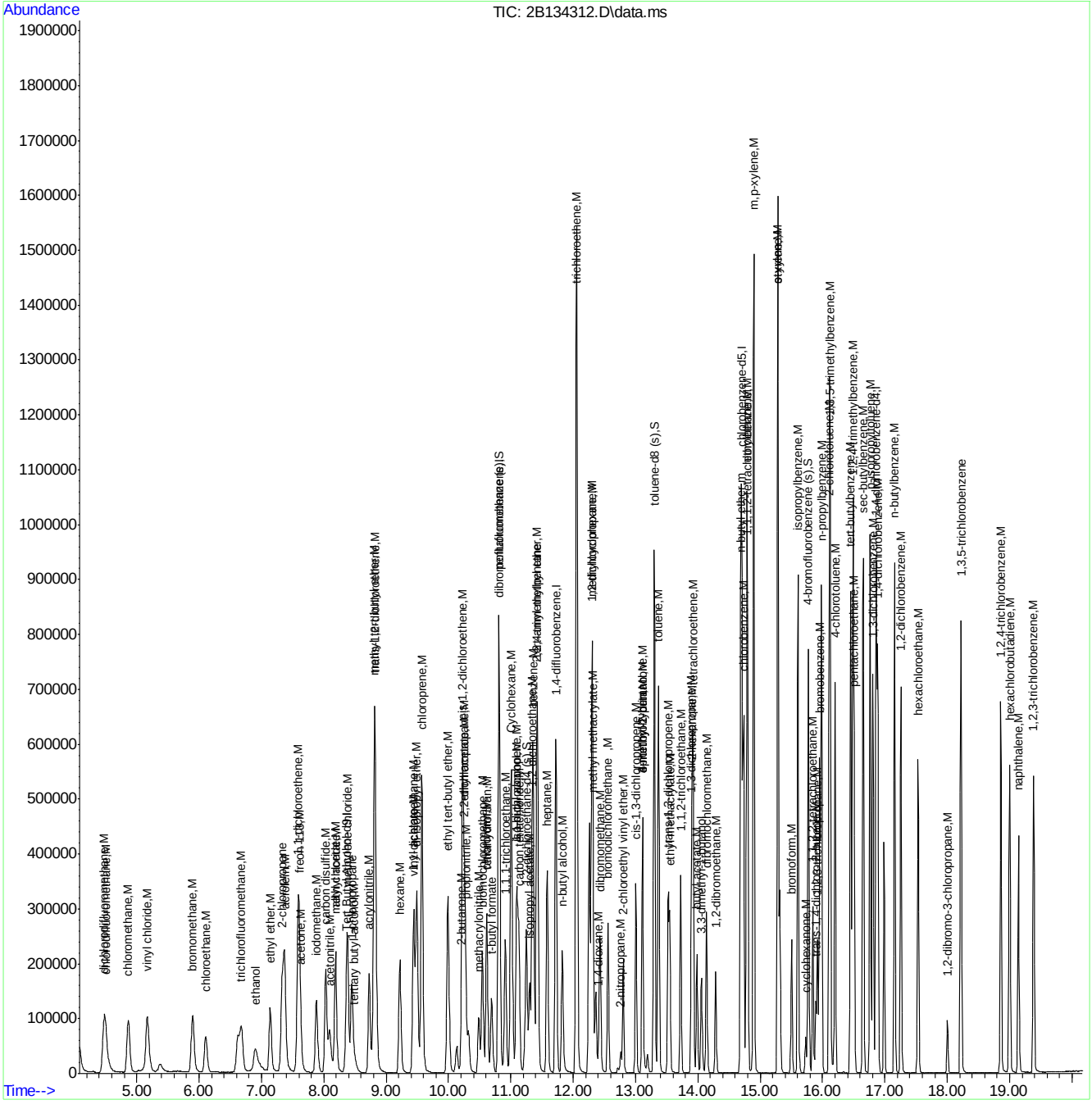
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134312.D
Acq On : 10 Sep 2015 4:25 pm
Operator : BridgetK
Sample : jc3137-3ms
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 12 14:51:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134313.D
Acq On : 10 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3137-3msd
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 12 14:51:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	118261	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	543087	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	552333	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	479774	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	248387	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	181297	50.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.64%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	179287	48.36	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 96.72%			
82) toluene-d8 (s)	13.302	98	625592	53.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.38%			
108) 4-bromofluorobenzene (s)	15.771	95	215253	51.63	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.26%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	54326	197.05	ug/L	94
3) ethanol	6.905	45	114929	4050.92	ug/L	100
4) 1,4-dioxane	12.410	88	31942	1313.90	ug/L	95
9) chlorodifluoromethane	4.499	51	125512	39.48	ug/L	97
10) dichlorodifluoromethane	4.488	85	206311	43.45	ug/L	97
12) chloromethane	4.871	50	201522	45.84	ug/L	100
13) vinyl chloride	5.175	62	207231	52.13	ug/L	97
15) bromomethane	5.904	94	137692	49.62	ug/L	99
16) chloroethane	6.114	64	103727	57.71	ug/L	99
18) trichlorofluoromethane	6.675	101	233856	48.34	ug/L	99
20) ethyl ether	7.146	74	71097	47.00	ug/L	88
21) acrolein	7.372	56	225928	472.04	ug/L	97
22) 2-chloropropane	7.335	43	210511	39.69	ug/L	97
24) 1,1-dichloroethene	7.597	96	115231	44.00	ug/L	92
25) acetone	7.634	43	30945	40.71	ug/L	92
26) allyl chloride	8.195	76	67477	47.81	ug/L	89
27) acetonitrile	8.095	40	64340	395.62	ug/L	94
28) iodomethane	7.886	142	244109	42.94	ug/L	100
29) iso-butyl alcohol	11.100	74	11810	372.43	ug/L #	29
30) carbon disulfide	8.038	76	414843	44.22	ug/L	96
31) methylene chloride	8.384	84	136914	45.56	ug/L	88
32) methyl acetate	8.190	74	18000	43.99	ug/L	93
33) 1-chloropropane	8.452	42	200405	40.04	ug/L	98
34) methyl tert butyl ether	8.819	73	643332	88.91	ug/L	94
35) trans-1,2-dichloroethene	8.824	96	135410	46.11	ug/L	97
36) di-isopropyl ether	9.495	45	367482	41.90	ug/L	94
37) 2-butanone	10.208	72	13251	46.92	ug/L	92
38) 1,1-dichloroethane	9.438	63	225552	46.12	ug/L	99
39) chloroprene	9.574	53	398790	102.02	ug/L	96
40) acrylonitrile	8.730	53	199857	217.40	ug/L	97
41) vinyl acetate	9.448	86	22739	47.45	ug/L	79
42) ethyl tert-butyl ether	9.993	59	351884	45.75	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134313.D
Acq On : 10 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3137-3msd
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 12 14:51:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	14819	45.79	ug/L		69
44) 2,2-dichloropropane	10.256	77	182933	42.13	ug/L		96
45) cis-1,2-dichloroethene	10.229	96	273600	84.06	ug/L		95
46) propionitrile	10.271	54	140112	423.75	ug/L		98
47) bromochloromethane	10.544	128	78829	48.15	ug/L		95
48) tetrahydrofuran	10.617	42	29243	41.59	ug/L		90
49) chloroform	10.617	83	229600	45.59	ug/L		98
50) t-butyl formate	10.696	59	79324	42.19	ug/L		93
53) freon 113	7.613	151	119472	51.48	ug/L		99
54) methacrylonitrile	10.491	41	56570	37.82	ug/L		94
55) 1,1,1-trichloroethane	10.916	97	201200	46.08	ug/L		97
56) Cyclohexane	11.016	84	180293	45.82	ug/L	#	80
61) epichlorohydrin	13.113	57	49112	246.17	ug/L		55
62) n-butyl alcohol	11.828	56	139319	2637.46	ug/L		94
63) carbon tetrachloride	11.131	117	187122	48.81	ug/L		98
64) 1,1-dichloropropene	11.100	75	164466	47.93	ug/L		98
65) hexane	9.223	57	129092	36.18	ug/L		95
66) benzene	11.357	78	486474	48.35	ug/L		100
67) 2,2,4-trimethylpentane	11.419	57	386600	46.07	ug/L		96
68) tert-amyl methyl ether	11.425	73	315457	49.91	ug/L		97
69) heptane	11.587	57	89984	51.20	ug/L		95
70) isopropyl acetate	11.304	43	170637	41.97	ug/L		95
71) 1,2-dichloroethane	11.346	62	154171	47.85	ug/L		97
72) trichloroethene	12.054	95	501290	182.64	ug/L		99
74) 2-nitropropane	12.762	41	22904	38.24	ug/L		89
75) 2-chloroethyl vinyl ether	12.804	63	52205	41.84	ug/L		97
76) methyl methacrylate	12.321	100	28400	48.22	ug/L		97
77) 1,2-dichloropropane	12.300	63	117717	46.46	ug/L		100
78) dibromomethane	12.431	93	77108	48.69	ug/L		100
79) methylcyclohexane	12.306	83	202579	49.80	ug/L		96
80) bromodichloromethane	12.562	83	174934	48.55	ug/L		99
81) cis-1,3-dichloropropene	13.008	75	192509	45.96	ug/L		92
83) 4-methyl-2-pentanone	13.113	58	41046	50.78	ug/L		89
84) toluene	13.370	92	294134	45.55	ug/L		99
85) 3-methyl-1-butanol	13.113	55	124399	1579.43	ug/L		92
86) trans-1,3-dichloropropene	13.527	75	162632	44.77	ug/L		96
87) ethyl methacrylate	13.548	69	127766	46.35	ug/L		94
88) 1,1,2-trichloroethane	13.726	83	90613	49.16	ug/L		99
89) 2-hexanone	13.910	58	30995	46.07	ug/L		84
91) n-butyl ether	14.686	57	455274	42.60	ug/L		97
92) tetrachloroethene	13.920	164	138582	48.17	ug/L		98
93) 1,3-dichloropropane	13.899	76	164171	43.90	ug/L		94
94) butyl acetate	13.989	56	57795	44.16	ug/L		88
95) 3,3-dimethyl-1-butanol	14.057	57	75093	457.31	ug/L		95
96) dibromochloromethane	14.141	129	148117	46.33	ug/L		98
97) 1,2-dibromoethane	14.287	107	112269	44.50	ug/L		100
98) chlorobenzene	14.733	112	336705	47.41	ug/L		97
99) 1,1,1,2-tetrachloroethane	14.786	131	133707	46.35	ug/L		98
100) ethylbenzene	14.796	91	514265	44.78	ug/L		99
101) m,p-xylene	14.896	106	427774	93.92	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134313.D
Acq On : 10 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3137-3msd
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 12 14:51:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

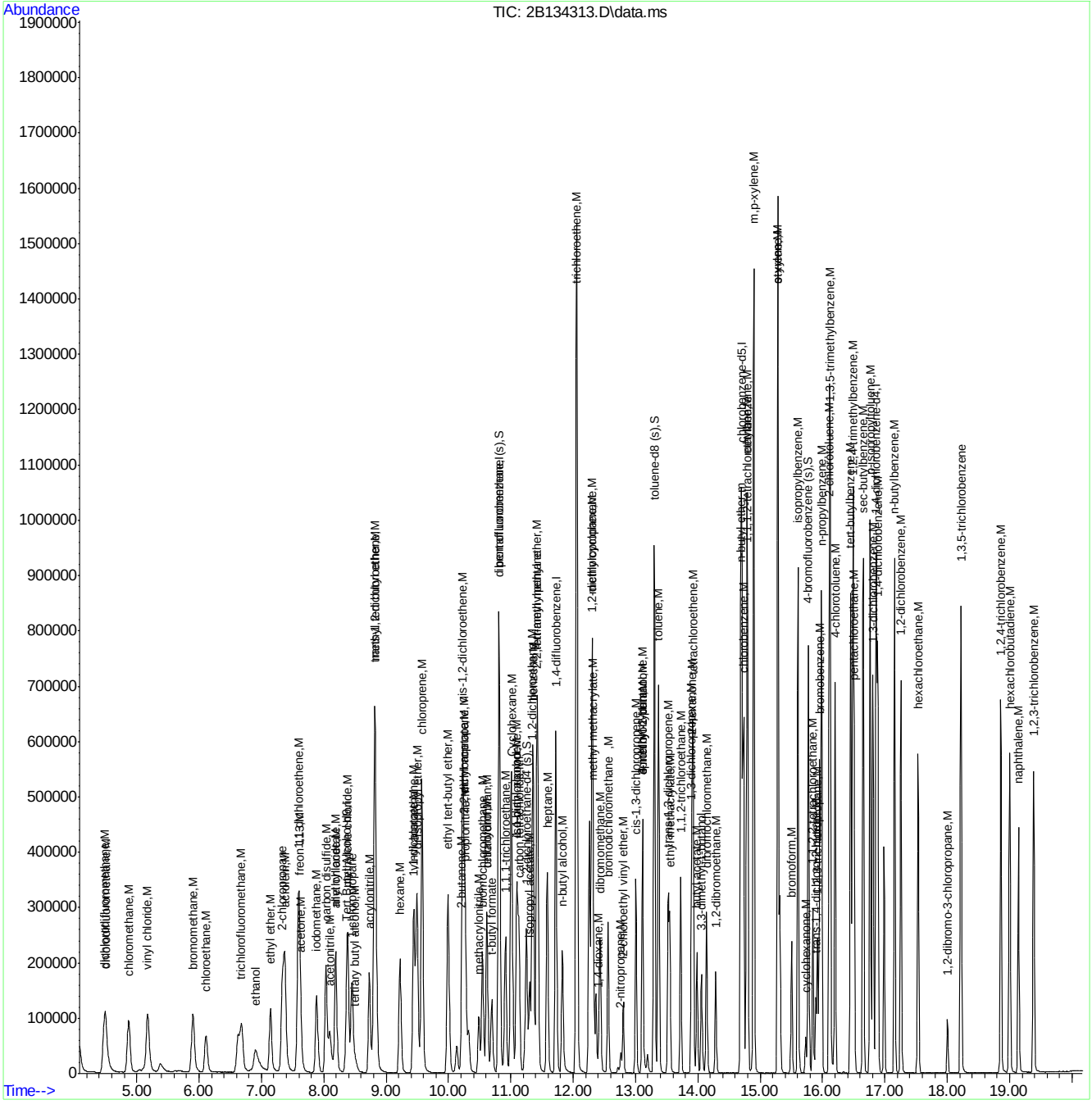
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	225958	47.14 ug/L	96
103) styrene	15.284	104	358042	46.53 ug/L	96
105) bromoform	15.504	173	109309	47.33 ug/L	99
107) isopropylbenzene	15.603	105	551087	49.04 ug/L	99
109) cyclohexanone	15.729	98	12481	152.26 ug/L	91
110) bromobenzene	15.955	156	171103	50.49 ug/L	97
111) 1,1,2,2-tetrachloroethane	15.845	83	131325	48.96 ug/L	98
112) trans-1,4-dichloro-2-b...	15.892	53	22702	34.55 ug/L	93
113) 1,2,3-trichloropropane	15.918	110	34391	49.34 ug/L	98
114) n-propylbenzene	15.981	91	616062	51.34 ug/L	100
115) 2-chlorotoluene	16.107	126	142700	49.39 ug/L	99
116) 4-chlorotoluene	16.201	91	370982	48.14 ug/L	97
117) 1,3,5-trimethylbenzene	16.123	105	450118	49.46 ug/L	100
118) tert-butylbenzene	16.448	119	408769	49.90 ug/L	98
119) pentachloroethane	16.505	167	113725	50.88 ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	468738	52.76 ug/L	99
121) sec-butylbenzene	16.652	105	596854	49.36 ug/L	99
122) 1,3-dichlorobenzene	16.809	146	309210	48.85 ug/L	99
123) p-isopropyltoluene	16.762	119	530720	50.26 ug/L	99
124) 1,4-dichlorobenzene	16.883	146	304833	48.96 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	309655	51.14 ug/L	98
126) n-butylbenzene	17.155	92	256741	50.25 ug/L	99
127) 1,2-dibromo-3-chloropr...	18.005	157	30677	46.49 ug/L	94
128) 1,3,5-trichlorobenzene	18.220	180	295239	50.80 ug/L	96
129) 1,2,4-trichlorobenzene	18.859	180	237901	49.60 ug/L	98
130) hexachlorobutadiene	19.001	225	145300	49.24 ug/L	98
131) naphthalene	19.142	128	346505	46.42 ug/L	100
132) 1,2,3-trichlorobenzene	19.389	180	195785	49.34 ug/L	99
133) hexachloroethane	17.533	201	119459	52.55 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985-5986\
Data File : 2B134313.D
Acq On : 10 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3137-3msd
Misc : ms90787,v2B5985,w,,,,20
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 12 14:51:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134377r.D
Acq On : 12 Sep 2015 12:21 am
Operator : BridgetK
Sample : jc3254-25Rms
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 18:17:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	107215	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	457124	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	453750	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	387177	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	204314	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	151768	50.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.10%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	169525	54.32	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.64%			
82) toluene-d8 (s)	13.302	98	508917	52.67	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.34%			
108) 4-bromofluorobenzene (s)	15.771	95	180557	52.65	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.30%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	56014	224.11	ug/L	95
3) ethanol	6.900	45	119292	4637.90	ug/L	97
4) 1,4-dioxane	12.411	88	27461	1245.96	ug/L	96
9) chlorodifluoromethane	4.488	51	119197	44.54	ug/L	98
10) dichlorodifluoromethane	4.478	85	164572	41.18	ug/L	97
12) chloromethane	4.866	50	173945	47.01	ug/L	100
13) vinyl chloride	5.170	62	162681	48.62	ug/L	98
15) bromomethane	5.894	94	110650	47.37	ug/L	97
16) chloroethane	6.108	64	86399	57.11	ug/L	94
18) trichlorofluoromethane	6.669	101	214799	52.75	ug/L	99
20) ethyl ether	7.141	74	64258	50.47	ug/L	95
21) acrolein	7.372	56	167730	416.35	ug/L	99
22) 2-chloropropane	7.335	43	226826	50.80	ug/L	97
24) 1,1-dichloroethene	7.592	96	104414	47.37	ug/L	91
25) acetone	7.629	43	34043	53.20	ug/L	89
26) allyl chloride	8.190	76	62144	52.31	ug/L #	82
27) acetonitrile	8.096	40	69463	507.45	ug/L	96
28) iodomethane	7.881	142	230044	48.07	ug/L	96
29) iso-butyl alcohol	11.095	74	12017	450.23	ug/L #	37
30) carbon disulfide	8.033	76	391381	49.56	ug/L	98
31) methylene chloride	8.384	84	124229	49.11	ug/L	98
32) methyl acetate	8.185	74	15589	45.27	ug/L	95
33) 1-chloropropane	8.452	42	219177	52.03	ug/L	99
34) methyl tert butyl ether	8.814	73	628287	103.16	ug/L	96
35) trans-1,2-dichloroethene	8.824	96	118315	47.86	ug/L	95
36) di-isopropyl ether	9.490	45	374818	50.77	ug/L	99
37) 2-butanone	10.198	72	12024	50.58	ug/L #	81
38) 1,1-dichloroethane	9.438	63	220968	53.68	ug/L	99
39) chloroprene	9.574	53	390681	118.74	ug/L	95
40) acrylonitrile	8.730	53	202656	261.90	ug/L	97
41) vinyl acetate	9.454	86	19005	47.11	ug/L	68
42) ethyl tert-butyl ether	9.988	59	334248	51.63	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134377r.D
Acq On : 12 Sep 2015 12:21 am
Operator : BridgetK
Sample : jc3254-25Rms
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 18:17:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	13858	50.87	ug/L		71
44) 2,2-dichloropropane	10.256	77	169427	46.36	ug/L		94
45) cis-1,2-dichloroethene	10.229	96	134878	49.23	ug/L		94
46) propionitrile	10.271	54	139972	502.93	ug/L		99
47) bromochloromethane	10.544	128	70609	51.24	ug/L		98
48) tetrahydrofuran	10.617	42	31994	54.06	ug/L		94
49) chloroform	10.617	83	222762	52.55	ug/L		100
50) t-butyl formate	10.696	59	53448	33.77	ug/L		90
53) freon 113	7.608	151	97373	49.85	ug/L		97
54) methacrylonitrile	10.486	41	65735	52.21	ug/L		96
55) 1,1,1-trichloroethane	10.916	97	201303	54.78	ug/L		98
56) Cyclohexane	11.011	84	163244	49.29	ug/L		89
61) epichlorohydrin	13.113	57	47538	290.05	ug/L		56
62) n-butyl alcohol	11.829	56	128545	2962.20	ug/L		96
63) carbon tetrachloride	11.126	117	187334	59.49	ug/L		97
64) 1,1-dichloropropene	11.095	75	157822	55.99	ug/L		98
65) hexane	9.218	57	70815	24.16	ug/L		98
66) benzene	11.357	78	452064	54.69	ug/L		97
67) 2,2,4-trimethylpentane	11.420	57	323357	46.91	ug/L		92
68) tert-amyl methyl ether	11.425	73	284292	54.75	ug/L		96
69) heptane	11.582	57	70890	49.10	ug/L		98
70) isopropyl acetate	11.299	43	181690	54.40	ug/L		96
71) 1,2-dichloroethane	11.346	62	163360	61.72	ug/L		99
72) trichloroethene	12.059	95	122823	54.47	ug/L		98
74) 2-nitropropane	12.767	41	28732	58.40	ug/L		98
76) methyl methacrylate	12.321	100	26639	55.06	ug/L	#	85
77) 1,2-dichloropropane	12.300	63	112284	53.94	ug/L		98
78) dibromomethane	12.432	93	73621	56.58	ug/L		95
79) methylcyclohexane	12.306	83	166077	49.69	ug/L		97
80) bromodichloromethane	12.557	83	167443	56.57	ug/L		100
81) cis-1,3-dichloropropene	13.003	75	178554	51.89	ug/L		93
83) 4-methyl-2-pentanone	13.113	58	38337	57.73	ug/L	#	65
84) toluene	13.370	92	265554	50.06	ug/L		98
85) 3-methyl-1-butanol	13.108	55	114034	1762.39	ug/L		96
86) trans-1,3-dichloropropene	13.522	75	155563	52.13	ug/L		93
87) ethyl methacrylate	13.548	69	121348	53.58	ug/L		94
88) 1,1,2-trichloroethane	13.727	83	80573	53.21	ug/L		98
89) 2-hexanone	13.905	58	29834	53.98	ug/L		97
91) n-butyl ether	14.686	57	435021	50.44	ug/L		96
92) tetrachloroethene	13.921	164	124406	53.58	ug/L		98
93) 1,3-dichloropropane	13.900	76	150752	49.95	ug/L		92
94) butyl acetate	13.989	56	52673	49.87	ug/L		94
95) 3,3-dimethyl-1-butanol	14.057	57	69824	526.92	ug/L		99
96) dibromochloromethane	14.141	129	135746	52.61	ug/L		98
97) 1,2-dibromoethane	14.288	107	102059	50.13	ug/L		99
98) chlorobenzene	14.733	112	298213	52.03	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.786	131	123665	53.12	ug/L		98
100) ethylbenzene	14.796	91	3288874	354.85	ug/L		98
101) m,p-xylene	14.896	106	379891	103.35	ug/L		94
102) o-xylene	15.284	106	200567	51.85	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134377r.D
Acq On : 12 Sep 2015 12:21 am
Operator : BridgetK
Sample : jc3254-25Rms
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 18:17:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

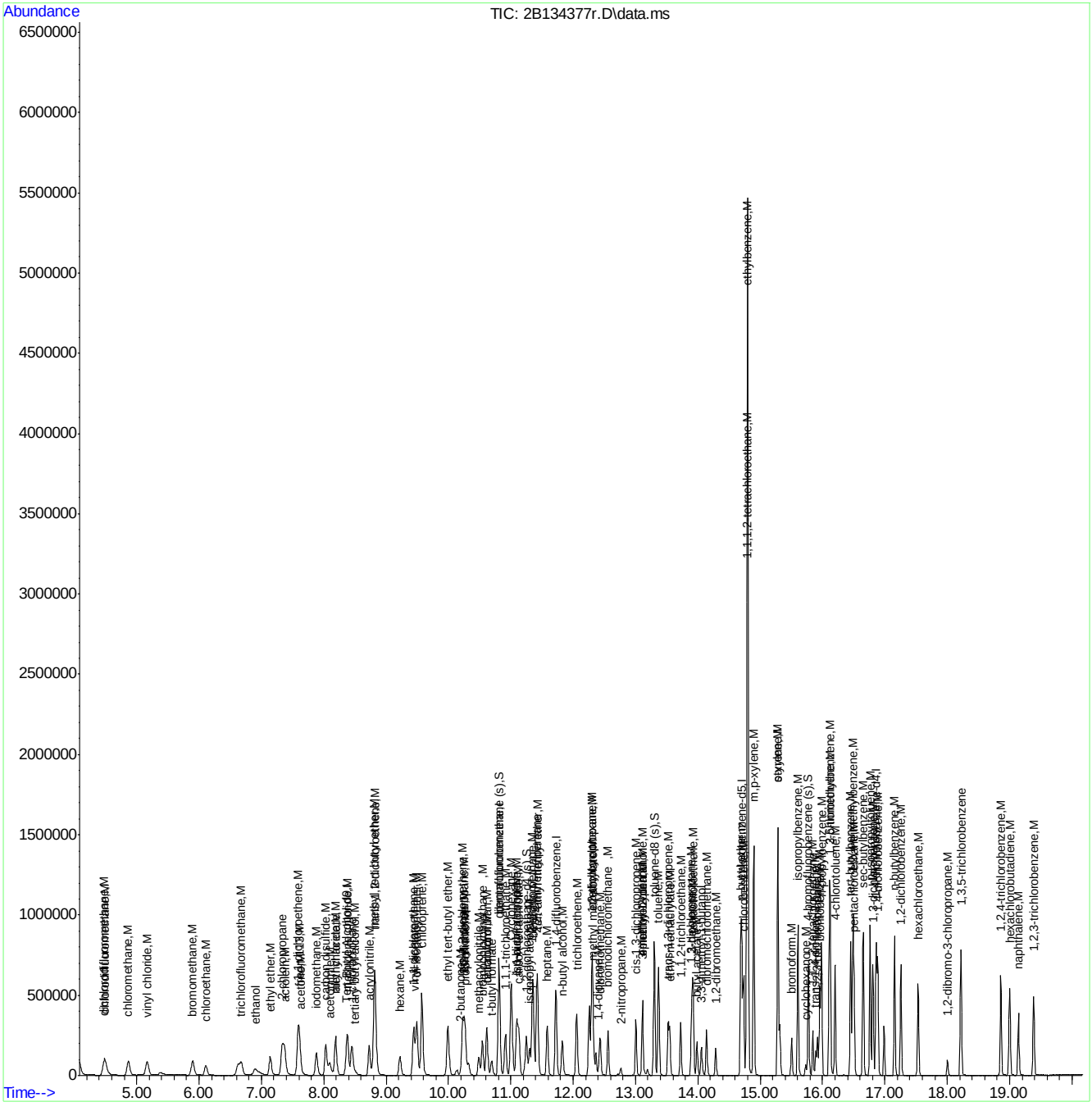
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) styrene	15.284	104	322769	51.97	ug/L	95
105) bromoform	15.504	173	102853	55.19	ug/L	98
107) isopropylbenzene	15.604	105	542540	58.70	ug/L	98
109) cyclohexanone	15.729	98	11265	167.07	ug/L	92
110) bromobenzene	15.955	156	154972	55.59	ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	117380	53.20	ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	27654	51.16	ug/L	83
113) 1,2,3-trichloropropane	15.918	110	31418	54.80	ug/L	99
114) n-propylbenzene	15.981	91	573882	58.14	ug/L	97
115) 2-chlorotoluene	16.112	126	125703	52.90	ug/L	93
116) 4-chlorotoluene	16.201	91	348557	54.98	ug/L	99
117) 1,3,5-trimethylbenzene	16.123	105	419542	56.04	ug/L	97
118) tert-butylbenzene	16.448	119	376174	55.83	ug/L	95
119) pentachloroethane	16.505	167	106258	57.79	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	434869	59.51	ug/L	97
121) sec-butylbenzene	16.652	105	541488	54.44	ug/L	99
122) 1,3-dichlorobenzene	16.810	146	278195	53.43	ug/L	98
123) p-isopropyltoluene	16.762	119	483740	55.69	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	272283	53.16	ug/L	98
125) 1,2-dichlorobenzene	17.260	146	278961	56.00	ug/L	97
126) n-butylbenzene	17.156	92	230658	54.89	ug/L	96
127) 1,2-dibromo-3-chloropr...	18.005	157	26940	49.63	ug/L	92
128) 1,3,5-trichlorobenzene	18.220	180	259156	54.21	ug/L	98
129) 1,2,4-trichlorobenzene	18.860	180	205976	52.21	ug/L	99
130) hexachlorobutadiene	19.001	225	130271	53.67	ug/L	99
131) naphthalene	19.143	128	294235	47.92	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	164263	50.32	ug/L	99
133) hexachloroethane	17.533	201	112330	60.07	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134377r.D
Acq On : 12 Sep 2015 12:21 am
Operator : BridgetK
Sample : jc3254-25Rms
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 19 18:17:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134378r.D
Acq On : 12 Sep 2015 12:50 am
Operator : BridgetK
Sample : jc3254-25Rmsd
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 19 18:17:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	106546	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	452273	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	448478	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	376801	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	199335	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	146871	48.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 97.90%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	165005	53.44	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 106.88%			
82) toluene-d8 (s)	13.302	98	502000	52.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.12%			
108) 4-bromofluorobenzene (s)	15.771	95	175284	52.39	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.78%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	54992	221.40	ug/L	96
3) ethanol	6.895	45	112166	4388.23	ug/L	94
4) 1,4-dioxane	12.411	88	27117	1238.08	ug/L	95
9) chlorodifluoromethane	4.488	51	116706	44.08	ug/L	96
10) dichlorodifluoromethane	4.473	85	166158	42.02	ug/L	99
12) chloromethane	4.861	50	169408	46.28	ug/L	97
13) vinyl chloride	5.165	62	158438	47.86	ug/L	99
15) bromomethane	5.894	94	106983	46.29	ug/L	97
16) chloroethane	6.103	64	83403	55.72	ug/L	94
18) trichlorofluoromethane	6.669	101	208074	51.65	ug/L	99
20) ethyl ether	7.141	74	63065	50.06	ug/L	97
21) acrolein	7.367	56	163606	410.46	ug/L	100
22) 2-chloropropane	7.330	43	216474	49.00	ug/L	94
24) 1,1-dichloroethene	7.592	96	101758	46.66	ug/L	97
25) acetone	7.634	43	31964	50.49	ug/L	90
26) allyl chloride	8.190	76	61956	52.71	ug/L #	76
27) acetonitrile	8.096	40	68045	502.42	ug/L	97
28) iodomethane	7.881	142	222737	47.05	ug/L	96
29) iso-butyl alcohol	11.095	74	11770	445.70	ug/L #	38
30) carbon disulfide	8.033	76	378231	48.41	ug/L	97
31) methylene chloride	8.379	84	118663	47.41	ug/L	97
32) methyl acetate	8.179	74	15231	44.70	ug/L #	79
33) 1-chloropropane	8.447	42	213346	51.19	ug/L	100
34) methyl tert butyl ether	8.814	73	615660	102.17	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	114340	46.75	ug/L	96
36) di-isopropyl ether	9.490	45	363860	49.81	ug/L	98
37) 2-butanone	10.203	72	12073	51.33	ug/L #	81
38) 1,1-dichloroethane	9.438	63	215806	52.99	ug/L	99
39) chloroprene	9.574	53	380564	116.90	ug/L	94
40) acrylonitrile	8.725	53	197770	258.32	ug/L	97
41) vinyl acetate	9.448	86	18298	45.85	ug/L #	57
42) ethyl tert-butyl ether	9.994	59	329012	51.37	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134378r.D
Acq On : 12 Sep 2015 12:50 am
Operator : BridgetK
Sample : jc3254-25Rmsd
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 19 18:17:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.250	45	13484	50.03	ug/L	#	61
44)	2,2-dichloropropane	10.256	77	163053	45.10	ug/L		95
45)	cis-1,2-dichloroethene	10.224	96	130460	48.13	ug/L		95
46)	propionitrile	10.271	54	136170	494.52	ug/L		99
47)	bromochloromethane	10.544	128	68524	50.26	ug/L		99
48)	tetrahydrofuran	10.617	42	31255	53.37	ug/L		95
49)	chloroform	10.612	83	216076	51.52	ug/L		98
50)	t-butyl formate	10.696	59	49947	31.90	ug/L		92
53)	freon 113	7.603	151	93770	48.52	ug/L		99
54)	methacrylonitrile	10.486	41	65124	52.28	ug/L		97
55)	1,1,1-trichloroethane	10.911	97	197443	54.30	ug/L		99
56)	Cyclohexane	11.011	84	156534	47.77	ug/L		93
61)	epichlorohydrin	13.113	57	47189	291.30	ug/L		56
62)	n-butyl alcohol	11.823	56	126040	2938.62	ug/L		94
63)	carbon tetrachloride	11.131	117	182325	58.58	ug/L		98
64)	1,1-dichloropropene	11.095	75	154186	55.34	ug/L		98
65)	hexane	9.223	57	69841	24.11	ug/L		99
66)	benzene	11.357	78	441385	54.03	ug/L		100
67)	2,2,4-trimethylpentane	11.420	57	314156	46.11	ug/L		91
68)	tert-amyl methyl ether	11.425	73	276937	53.96	ug/L		96
69)	heptane	11.582	57	69322	48.58	ug/L		98
70)	isopropyl acetate	11.299	43	177574	53.79	ug/L		96
71)	1,2-dichloroethane	11.341	62	159568	61.00	ug/L		98
72)	trichloroethene	12.054	95	120563	54.10	ug/L		97
74)	2-nitropropane	12.762	41	27298	56.13	ug/L		97
76)	methyl methacrylate	12.321	100	26389	55.18	ug/L	#	80
77)	1,2-dichloropropane	12.300	63	109912	53.42	ug/L		99
78)	dibromomethane	12.432	93	70072	54.49	ug/L		100
79)	methylcyclohexane	12.306	83	162169	49.09	ug/L		98
80)	bromodichloromethane	12.557	83	165191	56.46	ug/L		99
81)	cis-1,3-dichloropropene	13.003	75	177488	52.19	ug/L		93
83)	4-methyl-2-pentanone	13.113	58	36799	56.06	ug/L	#	72
84)	toluene	13.370	92	259974	49.59	ug/L		98
85)	3-methyl-1-butanol	13.108	55	111692	1746.48	ug/L		97
86)	trans-1,3-dichloropropene	13.527	75	152992	51.87	ug/L		93
87)	ethyl methacrylate	13.548	69	120881	54.00	ug/L		95
88)	1,1,2-trichloroethane	13.721	83	79515	53.13	ug/L		95
89)	2-hexanone	13.905	58	29600	54.18	ug/L		94
91)	n-butyl ether	14.686	57	426008	50.75	ug/L		96
92)	tetrachloroethene	13.921	164	120965	53.53	ug/L		99
93)	1,3-dichloropropane	13.900	76	147161	50.10	ug/L		96
94)	butyl acetate	13.989	56	51543	50.14	ug/L		94
95)	3,3-dimethyl-1-butanol	14.057	57	68858	533.94	ug/L		95
96)	dibromochloromethane	14.141	129	133726	53.26	ug/L		98
97)	1,2-dibromoethane	14.288	107	99047	49.99	ug/L		97
98)	chlorobenzene	14.733	112	290757	52.13	ug/L		97
99)	1,1,1,2-tetrachloroethane	14.786	131	119256	52.64	ug/L		99
100)	ethylbenzene	14.796	91	3219696	356.95	ug/L		98
101)	m,p-xylene	14.896	106	369671	103.34	ug/L		95
102)	o-xylene	15.284	106	197261	52.39	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134378r.D
Acq On : 12 Sep 2015 12:50 am
Operator : BridgetK
Sample : jc3254-25Rmsd
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 19 18:17:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

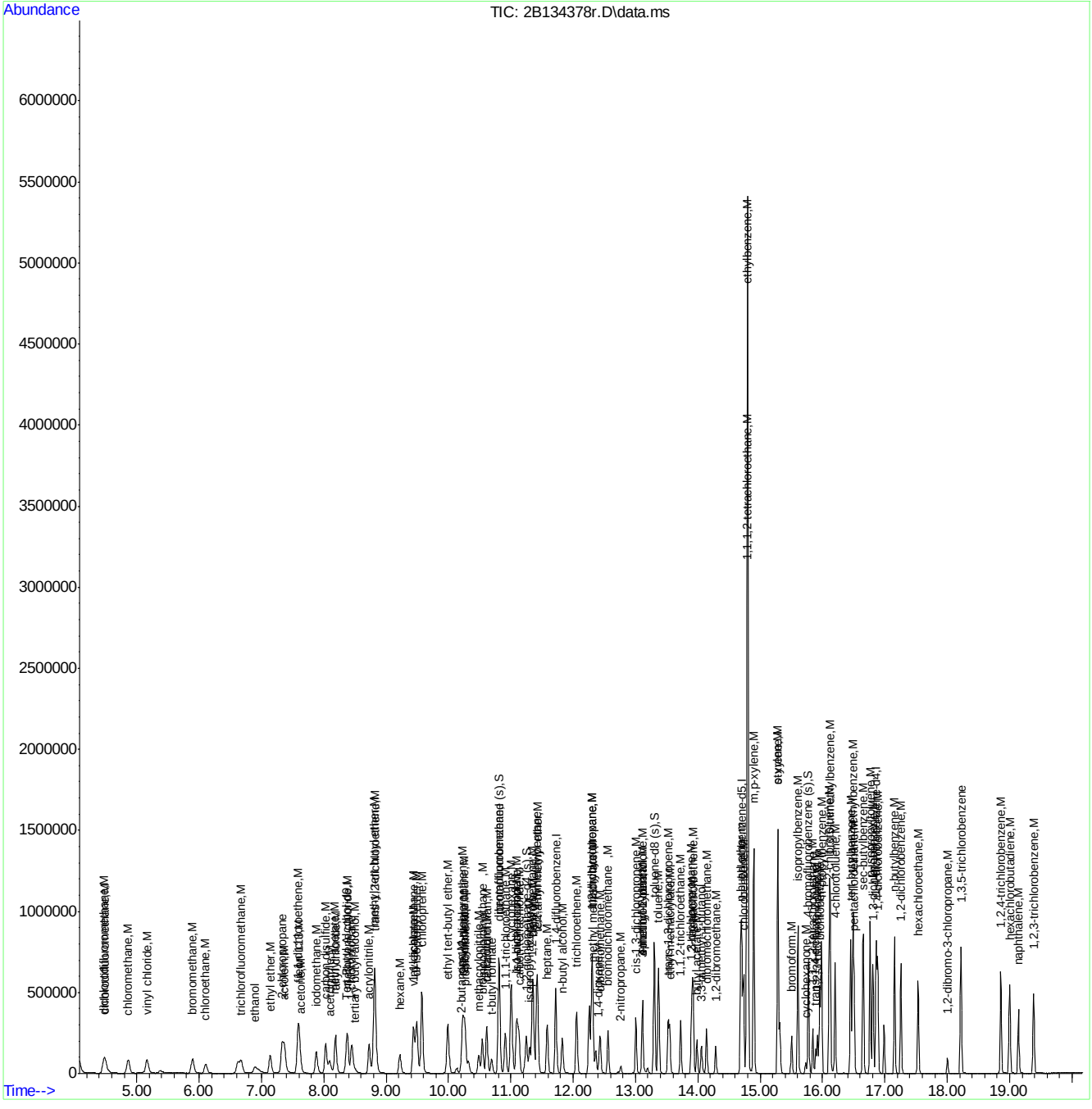
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) styrene	15.284	104	318048	52.62	ug/L	94
105) bromoform	15.504	173	102385	56.45	ug/L	97
107) isopropylbenzene	15.604	105	532052	59.00	ug/L	98
109) cyclohexanone	15.729	98	11563	175.77	ug/L	89
110) bromobenzene	15.955	156	151042	55.53	ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	114467	53.18	ug/L	97
112) trans-1,4-dichloro-2-b...	15.887	53	26706	50.64	ug/L	84
113) 1,2,3-trichloropropane	15.918	110	30573	54.66	ug/L	95
114) n-propylbenzene	15.981	91	561104	58.27	ug/L	97
115) 2-chlorotoluene	16.107	126	122125	52.67	ug/L	92
116) 4-chlorotoluene	16.201	91	340129	54.99	ug/L	99
117) 1,3,5-trimethylbenzene	16.123	105	411551	56.35	ug/L	98
118) tert-butylbenzene	16.453	119	370625	56.38	ug/L	96
119) pentachloroethane	16.505	167	104202	58.09	ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	427891	60.01	ug/L	96
121) sec-butylbenzene	16.652	105	531228	54.74	ug/L	98
122) 1,3-dichlorobenzene	16.810	146	270590	53.26	ug/L	99
123) p-isopropyltoluene	16.762	119	475540	56.12	ug/L	97
124) 1,4-dichlorobenzene	16.883	146	267679	53.57	ug/L	98
125) 1,2-dichlorobenzene	17.260	146	273021	56.18	ug/L	99
126) n-butylbenzene	17.156	92	224548	54.77	ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	27694	52.29	ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	257559	55.22	ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	207210	53.84	ug/L	98
130) hexachlorobutadiene	19.001	225	130318	55.03	ug/L	98
131) naphthalene	19.143	128	298043	49.75	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	165866	52.08	ug/L	100
133) hexachloroethane	17.533	201	109383	59.96	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5988\
Data File : 2B134378r.D
Acq On : 12 Sep 2015 12:50 am
Operator : BridgetK
Sample : jc3254-25Rmsd
Misc : ms90889,v2B5988,w,,,,10
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 19 18:17:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134424r.D
Acq On : 14 Sep 2015 11:35 am
Operator : BridgetK
Sample : jc3254-16Rms
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 21 10:57:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	102972	500.00	ug/L	-0.01
5) pentafluorobenzene	10.806	168	427947	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	11.719	114	415433	50.00	ug/L	-0.01
90) chlorobenzene-d5	14.702	117	346794	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	186225	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	138649	48.84	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 97.68%						
52) 1,2-dichloroethane-d4 (s)	11.247	65	159594	54.63	ug/L	-0.01
Spiked Amount 50.000 Range 72 - 123 Recovery = 109.26%						
82) toluene-d8 (s)	13.297	98	461299	52.14	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 104.28%						
108) 4-bromofluorobenzene (s)	15.771	95	163326	52.25	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 104.50%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	46604	194.14	ug/L	90
3) ethanol	6.895	45	96256	3896.50	ug/L	97
4) 1,4-dioxane	12.405	88	23888	1128.51	ug/L	94
9) chlorodifluoromethane	4.499	51	101604	40.55	ug/L	96
10) dichlorodifluoromethane	4.478	85	173469	46.37	ug/L	99
12) chloromethane	4.871	50	151588	43.76	ug/L	98
13) vinyl chloride	5.175	62	147632	47.13	ug/L	97
15) bromomethane	5.899	94	102614	46.93	ug/L	98
16) chloroethane	6.109	64	76115	53.74	ug/L	91
18) trichlorofluoromethane	6.670	101	210834	55.31	ug/L	98
20) ethyl ether	7.136	74	53770	45.11	ug/L	96
21) acrolein	7.367	56	165281	438.24	ug/L	98
22) 2-chloropropane	7.330	43	182114	43.57	ug/L	91
24) 1,1-dichloroethene	7.592	96	87200	42.26	ug/L	92
25) acetone	7.629	43	28788	48.06	ug/L	90
26) allyl chloride	8.190	76	54157	48.70	ug/L #	83
27) acetonitrile	8.096	40	60070	468.75	ug/L	93
28) iodomethane	7.881	142	192810	43.04	ug/L	94
29) iso-butyl alcohol	11.089	74	10904	436.38	ug/L #	42
30) carbon disulfide	8.033	76	315294	42.65	ug/L	97
31) methylene chloride	8.373	84	104539	44.14	ug/L	95
32) methyl acetate	8.180	74	13510	41.90	ug/L	89
33) 1-chloropropane	8.447	42	181307	45.97	ug/L	97
34) methyl tert butyl ether	8.809	73	553395	97.06	ug/L	97
35) trans-1,2-dichloroethene	8.819	96	98928	42.75	ug/L	93
36) di-isopropyl ether	9.490	45	315637	45.67	ug/L	99
37) 2-butanone	10.203	72	10593	47.60	ug/L	90
38) 1,1-dichloroethane	9.433	63	184919	47.99	ug/L	99
39) chloroprene	9.574	53	346886	112.61	ug/L	95
40) acrylonitrile	8.725	53	172721	238.43	ug/L	98
41) vinyl acetate	9.448	86	17363	45.98	ug/L	80
42) ethyl tert-butyl ether	9.988	59	296142	48.86	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134424r.D
Acq On : 14 Sep 2015 11:35 am
Operator : BridgetK
Sample : jc3254-16Rms
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 21 10:57:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.245	45	12682	49.73	ug/L		76
44) 2,2-dichloropropane	10.256	77	174135	50.90	ug/L		96
45) cis-1,2-dichloroethene	10.224	96	114371	44.59	ug/L		98
46) propionitrile	10.266	54	118174	453.56	ug/L		95
47) bromochloromethane	10.544	128	60820	47.15	ug/L		99
48) tetrahydrofuran	10.612	42	28567	51.56	ug/L		93
49) chloroform	10.612	83	195313	49.22	ug/L		99
50) t-butyl formate	10.691	59	70885	47.85	ug/L		96
53) freon 113	7.603	151	90439	49.46	ug/L		97
54) methacrylonitrile	10.486	41	55692	47.25	ug/L		98
55) 1,1,1-trichloroethane	10.911	97	182207	52.96	ug/L		98
56) Cyclohexane	11.011	84	140130	45.20	ug/L		98
61) epichlorohydrin	13.113	57	41332	275.44	ug/L		56
62) n-butyl alcohol	11.823	56	105928	2666.16	ug/L		94
63) carbon tetrachloride	11.126	117	171632	59.53	ug/L		99
64) 1,1-dichloropropene	11.095	75	136612	52.93	ug/L		99
65) hexane	9.218	57	113368	42.25	ug/L		98
66) benzene	11.352	78	380130	50.23	ug/L		100
67) 2,2,4-trimethylpentane	11.420	57	307573	48.73	ug/L		93
68) tert-amyl methyl ether	11.425	73	254629	53.56	ug/L		98
69) heptane	11.582	57	72403	54.78	ug/L		95
70) isopropyl acetate	11.299	43	158725	51.91	ug/L		98
71) 1,2-dichloroethane	11.341	62	143707	59.30	ug/L		98
72) trichloroethene	12.054	95	105640	51.17	ug/L		99
74) 2-nitropropane	12.762	41	25459	56.52	ug/L		92
75) 2-chloroethyl vinyl ether	12.804	63	25989	27.69	ug/L		98
76) methyl methacrylate	12.321	100	23340	52.69	ug/L		95
77) 1,2-dichloropropane	12.301	63	95077	49.89	ug/L		99
78) dibromomethane	12.432	93	63264	53.11	ug/L		98
79) methylcyclohexane	12.306	83	154214	50.40	ug/L		98
80) bromodichloromethane	12.557	83	148760	54.89	ug/L		97
81) cis-1,3-dichloropropene	13.003	75	161579	51.29	ug/L		93
83) 4-methyl-2-pentanone	13.108	58	32408	53.30	ug/L	#	67
84) toluene	13.370	92	230577	47.48	ug/L		98
85) 3-methyl-1-butanol	13.108	55	97284	1642.19	ug/L		97
86) trans-1,3-dichloropropene	13.522	75	140925	51.58	ug/L		94
87) ethyl methacrylate	13.548	69	105976	51.11	ug/L		96
88) 1,1,2-trichloroethane	13.721	83	69273	49.97	ug/L		97
89) 2-hexanone	13.905	58	26266	51.91	ug/L		98
91) n-butyl ether	14.686	57	376374	48.72	ug/L		96
92) tetrachloroethene	13.921	164	111132	53.44	ug/L		99
93) 1,3-dichloropropane	13.900	76	130800	48.39	ug/L		93
94) butyl acetate	13.984	56	45641	48.24	ug/L		93
95) 3,3-dimethyl-1-butanol	14.057	57	58492	492.80	ug/L		92
96) dibromochloromethane	14.141	129	123113	53.27	ug/L		99
97) 1,2-dibromoethane	14.282	107	89650	49.16	ug/L		98
98) chlorobenzene	14.733	112	259391	50.53	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.786	131	112195	53.80	ug/L		99
100) ethylbenzene	14.796	91	427636	51.51	ug/L		98
101) m,p-xylene	14.896	106	339880	103.24	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134424r.D
Acq On : 14 Sep 2015 11:35 am
Operator : BridgetK
Sample : jc3254-16Rms
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 21 10:57:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

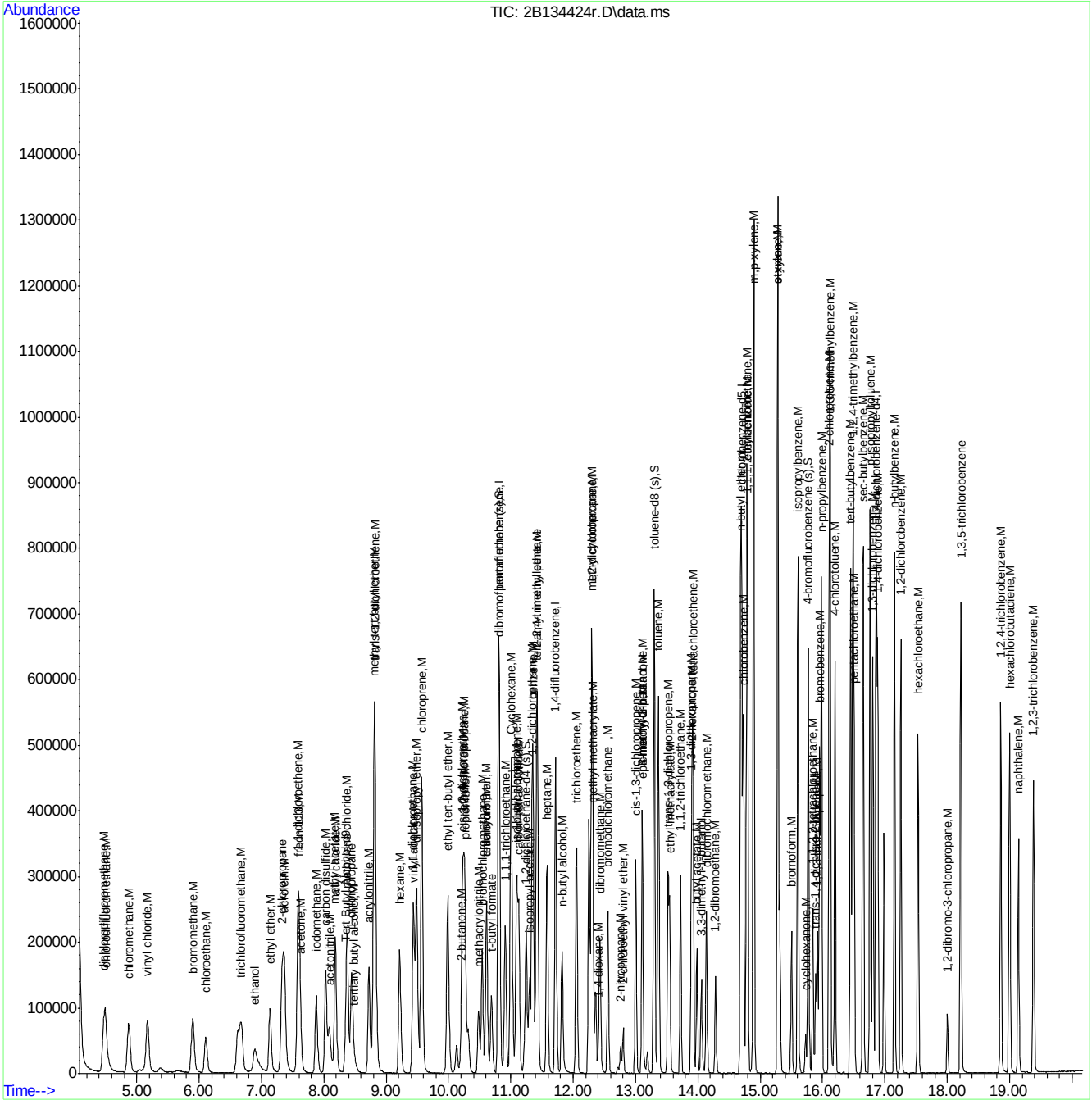
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.279	106	177494	51.22 ug/L	92
103) styrene	15.284	104	284872	51.21 ug/L	97
105) bromoform	15.504	173	95553	57.24 ug/L	98
107) isopropylbenzene	15.604	105	456978	54.24 ug/L	97
109) cyclohexanone	15.729	98	10004	162.78 ug/L	95
110) bromobenzene	15.955	156	138052	54.33 ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	101509	50.48 ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	27655	56.13 ug/L	85
113) 1,2,3-trichloropropane	15.918	110	28306	54.17 ug/L	99
114) n-propylbenzene	15.981	91	510536	56.75 ug/L	98
115) 2-chlorotoluene	16.107	126	112957	52.15 ug/L	88
116) 4-chlorotoluene	16.196	91	309993	53.65 ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	380275	55.73 ug/L	98
118) tert-butylbenzene	16.448	119	342672	55.80 ug/L	95
119) pentachloroethane	16.505	167	96692	57.70 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	394990	59.30 ug/L	97
121) sec-butylbenzene	16.652	105	493843	54.47 ug/L	99
122) 1,3-dichlorobenzene	16.804	146	248500	52.36 ug/L	98
123) p-isopropyltoluene	16.762	119	444827	56.19 ug/L	98
124) 1,4-dichlorobenzene	16.883	146	247017	52.91 ug/L	99
125) 1,2-dichlorobenzene	17.255	146	257281	56.67 ug/L	96
126) n-butylbenzene	17.156	92	213235	55.67 ug/L	97
127) 1,2-dibromo-3-chloropr...	18.005	157	25411	51.36 ug/L	95
128) 1,3,5-trichlorobenzene	18.220	180	243405	55.86 ug/L	97
129) 1,2,4-trichlorobenzene	18.860	180	190379	52.95 ug/L	99
130) hexachlorobutadiene	19.001	225	124220	56.15 ug/L	99
131) naphthalene	19.143	128	266029	47.54 ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	148431	49.89 ug/L	98
133) hexachloroethane	17.533	201	103382	60.66 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134424r.D
Acq On : 14 Sep 2015 11:35 am
Operator : BridgetK
Sample : jc3254-16Rms
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 21 10:57:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134425r.D
Acq On : 14 Sep 2015 12:04 pm
Operator : BridgetK
Sample : jc3254-16Rmsd
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 11:54:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	97834	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	419509	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	405775	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	344026	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	183885	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	137125	49.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 98.54%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	154937	54.10	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.20%			
82) toluene-d8 (s)	13.302	98	456800	52.86	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.72%			
108) 4-bromofluorobenzene (s)	15.771	95	161597	52.36	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.72%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	47498	208.26	ug/L	85
3) ethanol	6.900	45	97241	4143.10	ug/L	99
4) 1,4-dioxane	12.411	88	25089	1247.49	ug/L	96
9) chlorodifluoromethane	4.499	51	95675	38.96	ug/L	93
10) dichlorodifluoromethane	4.483	85	165633	45.16	ug/L	96
12) chloromethane	4.876	50	151359	44.58	ug/L	97
13) vinyl chloride	5.180	62	145518	47.39	ug/L	99
15) bromomethane	5.904	94	101550	47.38	ug/L	99
16) chloroethane	6.114	64	75848	54.63	ug/L	95
18) trichlorofluoromethane	6.680	101	205024	54.86	ug/L	98
20) ethyl ether	7.147	74	51371	43.97	ug/L	98
21) acrolein	7.372	56	159958	432.65	ug/L	98
22) 2-chloropropane	7.335	43	175213	42.76	ug/L	90
24) 1,1-dichloroethene	7.592	96	87704	43.36	ug/L	97
25) acetone	7.629	43	27598	47.00	ug/L	96
26) allyl chloride	8.190	76	52829	48.46	ug/L #	82
27) acetonitrile	8.096	40	58431	465.13	ug/L	93
28) iodomethane	7.881	142	192406	43.81	ug/L	96
29) iso-butyl alcohol	11.100	74	10901	445.03	ug/L #	25
30) carbon disulfide	8.038	76	309329	42.69	ug/L	98
31) methylene chloride	8.379	84	103056	44.39	ug/L	98
32) methyl acetate	8.190	74	13162	41.64	ug/L	94
33) 1-chloropropane	8.452	42	177701	45.96	ug/L	98
34) methyl tert butyl ether	8.814	73	543855	97.31	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	96979	42.75	ug/L	93
36) di-isopropyl ether	9.490	45	309846	45.73	ug/L	99
37) 2-butanone	10.203	72	10092	46.26	ug/L #	76
38) 1,1-dichloroethane	9.433	63	183727	48.64	ug/L	98
39) chloroprene	9.574	53	340368	112.72	ug/L	95
40) acrylonitrile	8.730	53	165346	232.84	ug/L	97
41) vinyl acetate	9.448	86	16938	45.75	ug/L	81
42) ethyl tert-butyl ether	9.988	59	293734	49.44	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134425r.D
Acq On : 14 Sep 2015 12:04 pm
Operator : BridgetK
Sample : jc3254-16Rmsd
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 11:54:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.245	45	11587	46.35	ug/L		92
44) 2,2-dichloropropane	10.256	77	171171	51.04	ug/L		96
45) cis-1,2-dichloroethene	10.224	96	113121	44.99	ug/L		97
46) propionitrile	10.271	54	114770	449.35	ug/L		98
47) bromochloromethane	10.544	128	60367	47.74	ug/L		98
48) tetrahydrofuran	10.612	42	23017	42.38	ug/L		97
49) chloroform	10.612	83	193350	49.70	ug/L		99
50) t-butyl formate	10.691	59	58419	40.23	ug/L		93
53) freon 113	7.608	151	87804	48.98	ug/L		97
54) methacrylonitrile	10.486	41	54166	46.88	ug/L		96
55) 1,1,1-trichloroethane	10.916	97	180132	53.41	ug/L		98
56) Cyclohexane	11.016	84	138229	45.48	ug/L		90
61) epichlorohydrin	13.113	57	41177	280.94	ug/L		55
62) n-butyl alcohol	11.823	56	110992	2860.11	ug/L		93
63) carbon tetrachloride	11.131	117	168708	59.91	ug/L		99
64) 1,1-dichloropropene	11.095	75	135677	53.82	ug/L		97
65) hexane	9.223	57	112386	42.88	ug/L		98
66) benzene	11.357	78	375684	50.83	ug/L		99
67) 2,2,4-trimethylpentane	11.420	57	302057	49.00	ug/L		92
68) tert-amyl methyl ether	11.425	73	249128	53.65	ug/L		97
69) heptane	11.582	57	70667	54.74	ug/L		98
70) isopropyl acetate	11.299	43	153025	51.24	ug/L		98
71) 1,2-dichloroethane	11.341	62	142939	60.39	ug/L		96
72) trichloroethene	12.054	95	106597	52.86	ug/L		99
74) 2-nitropropane	12.762	41	25092	57.03	ug/L		96
76) methyl methacrylate	12.321	100	23158	53.52	ug/L		93
77) 1,2-dichloropropane	12.300	63	94619	50.83	ug/L		99
78) dibromomethane	12.432	93	62490	53.71	ug/L		99
79) methylcyclohexane	12.306	83	151179	50.58	ug/L		98
80) bromodichloromethane	12.557	83	146514	55.35	ug/L		97
81) cis-1,3-dichloropropene	13.003	75	158828	51.62	ug/L		91
83) 4-methyl-2-pentanone	13.113	58	32504	54.73	ug/L	#	71
84) toluene	13.370	92	228736	48.22	ug/L		97
85) 3-methyl-1-butanol	13.108	55	98356	1699.80	ug/L		99
86) trans-1,3-dichloropropene	13.522	75	139726	52.36	ug/L		93
87) ethyl methacrylate	13.548	69	104648	51.67	ug/L		96
88) 1,1,2-trichloroethane	13.721	83	69029	50.98	ug/L		97
89) 2-hexanone	13.905	58	25647	51.89	ug/L		98
91) n-butyl ether	14.686	57	373123	48.69	ug/L		95
92) tetrachloroethene	13.921	164	111091	53.85	ug/L		98
93) 1,3-dichloropropane	13.900	76	129398	48.25	ug/L		94
94) butyl acetate	13.989	56	45102	48.06	ug/L		100
95) 3,3-dimethyl-1-butanol	14.057	57	60313	512.23	ug/L		97
96) dibromochloromethane	14.141	129	123411	53.83	ug/L		100
97) 1,2-dibromoethane	14.288	107	88101	48.70	ug/L		98
98) chlorobenzene	14.733	112	259533	50.96	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	112028	54.16	ug/L		98
100) ethylbenzene	14.796	91	423671	51.44	ug/L		98
101) m,p-xylene	14.896	106	334113	102.30	ug/L		93
102) o-xylene	15.284	106	175885	51.17	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134425r.D
Acq On : 14 Sep 2015 12:04 pm
Operator : BridgetK
Sample : jc3254-16Rmsd
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 11:54:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.284	104	281917	51.09 ug/L	95
105) bromoform	15.504	173	92023	55.57 ug/L	98
107) isopropylbenzene	15.604	105	459636	55.25 ug/L	97
109) cyclohexanone	15.729	98	10409	171.52 ug/L	90
110) bromobenzene	15.955	156	135676	54.07 ug/L	98
111) 1,1,2,2-tetrachloroethane	15.845	83	100420	50.57 ug/L	98
112) trans-1,4-dichloro-2-b...	15.887	53	26420	54.30 ug/L	85
113) 1,2,3-trichloropropane	15.918	110	28217	54.69 ug/L	93
114) n-propylbenzene	15.981	91	509836	57.39 ug/L	97
115) 2-chlorotoluene	16.107	126	112383	52.54 ug/L	89
116) 4-chlorotoluene	16.201	91	309451	54.24 ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	380469	56.47 ug/L	98
118) tert-butylbenzene	16.448	119	340984	56.23 ug/L	95
119) pentachloroethane	16.505	167	95844	57.92 ug/L	99
120) 1,2,4-trimethylbenzene	16.484	105	392921	59.74 ug/L	97
121) sec-butylbenzene	16.652	105	492650	55.03 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	247730	52.86 ug/L	98
123) p-isopropyltoluene	16.762	119	445228	56.95 ug/L	98
124) 1,4-dichlorobenzene	16.883	146	244800	53.11 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	255889	57.08 ug/L	98
126) n-butylbenzene	17.156	92	211491	55.92 ug/L	96
127) 1,2-dibromo-3-chloropr...	18.005	157	25594	52.39 ug/L	96
128) 1,3,5-trichlorobenzene	18.220	180	241295	56.08 ug/L	100
129) 1,2,4-trichlorobenzene	18.859	180	189391	53.34 ug/L	99
130) hexachlorobutadiene	19.001	225	126971	58.12 ug/L	98
131) naphthalene	19.143	128	267036	48.32 ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	147530	50.22 ug/L	99
133) hexachloroethane	17.533	201	104219	61.92 ug/L	97

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

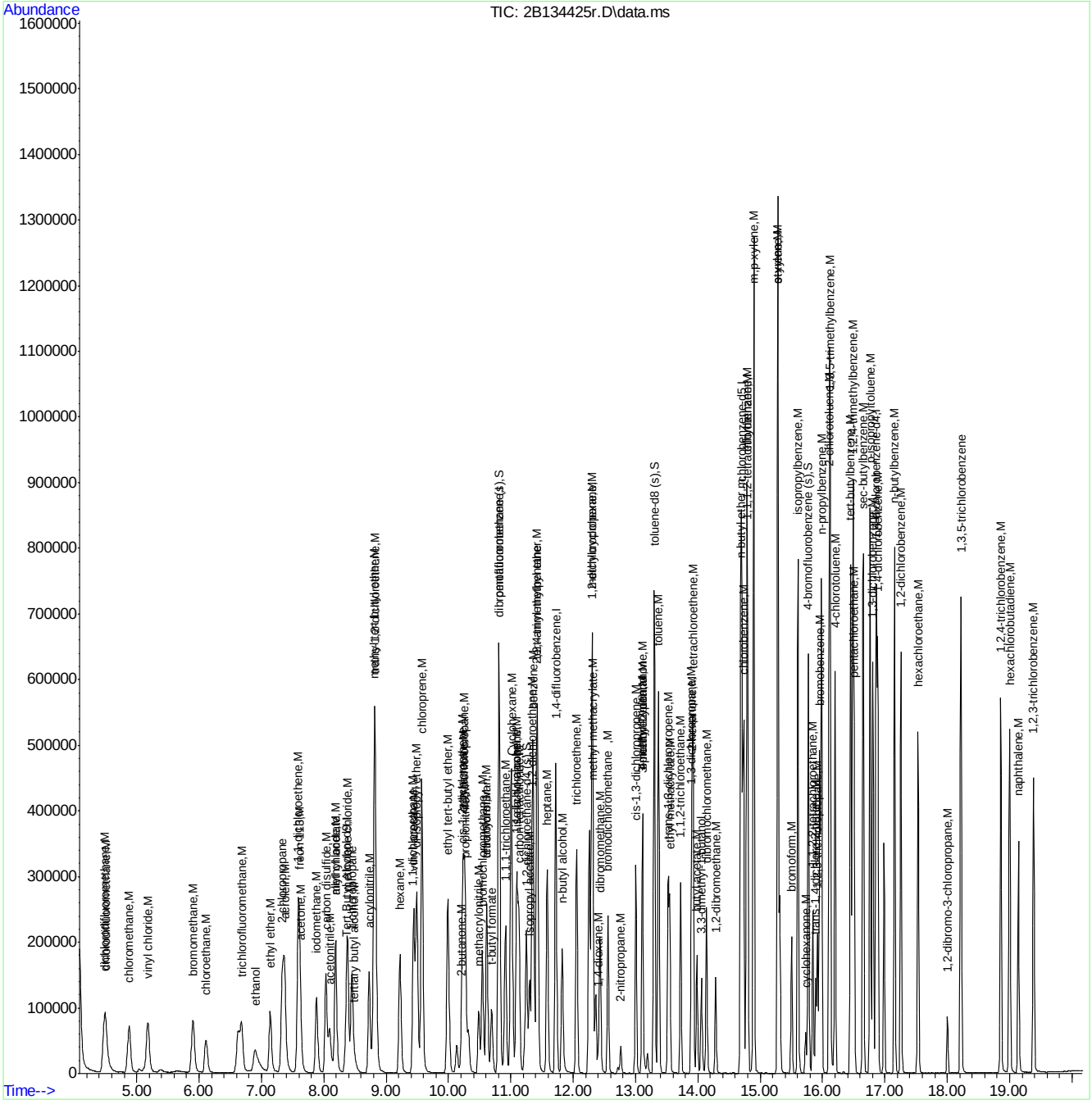
7.4.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5989-5990\
Data File : 2B134425r.D
Acq On : 14 Sep 2015 12:04 pm
Operator : BridgetK
Sample : jc3254-16Rmsd
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 21 11:54:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134435.D
Acq On : 14 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3538-8ms
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 14:21:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	95356	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	417225	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	406078	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	346889	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	183354	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	137934	49.84	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 99.68%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	155438	54.57	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 109.14%						
82) toluene-d8 (s)	13.302	98	455649	52.69	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 105.38%						
108) 4-bromofluorobenzene (s)	15.771	95	163558	53.15	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 106.30%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	47295	212.76	ug/L	85
3) ethanol	6.905	45	97247	4251.03	ug/L	98
4) 1,4-dioxane	12.411	88	24261	1237.67	ug/L	96
9) chlorodifluoromethane	4.504	51	94685	38.76	ug/L	96
10) dichlorodifluoromethane	4.478	85	147578	40.46	ug/L	99
12) chloromethane	4.876	50	138778	41.09	ug/L	99
13) vinyl chloride	5.180	62	253100	82.88	ug/L	97
15) bromomethane	5.909	94	97986	45.96	ug/L	99
16) chloroethane	6.114	64	73565	53.27	ug/L	95
18) trichlorofluoromethane	6.685	101	201440	54.20	ug/L	98
20) ethyl ether	7.147	74	53204	45.78	ug/L	95
21) acrolein	7.377	56	162406	441.68	ug/L	99
22) 2-chloropropane	7.335	43	185429	45.50	ug/L	93
24) 1,1-dichloroethene	7.597	96	87678	43.58	ug/L	96
25) acetone	7.634	43	27109	46.42	ug/L	97
26) allyl chloride	8.195	76	54923	50.65	ug/L #	88
27) acetonitrile	8.096	40	59415	475.55	ug/L	94
28) iodomethane	7.891	142	194528	44.54	ug/L	98
29) iso-butyl alcohol	11.095	74	10403	427.03	ug/L #	39
30) carbon disulfide	8.038	76	317117	44.00	ug/L	97
31) methylene chloride	8.384	84	105819	45.83	ug/L	99
32) methyl acetate	8.185	74	13942	44.35	ug/L	95
33) 1-chloropropane	8.452	42	184157	47.90	ug/L	97
34) methyl tert butyl ether	8.814	73	551432	99.20	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	101548	45.01	ug/L	95
36) di-isopropyl ether	9.495	45	319272	47.38	ug/L	100
37) 2-butanone	10.203	72	13226	60.95	ug/L	97
38) 1,1-dichloroethane	9.438	63	188452	50.16	ug/L	98
39) chloroprene	9.579	53	360316	119.98	ug/L	95
40) acrylonitrile	8.730	53	173303	245.38	ug/L	99
41) vinyl acetate	9.448	86	17390	47.23	ug/L	81
42) ethyl tert-butyl ether	9.994	59	295216	49.96	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134435.D
Acq On : 14 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3538-8ms
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 14:21:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.256	45	11340	45.61	ug/L	#	45
44)	2,2-dichloropropane	10.256	77	164464	49.31	ug/L		93
45)	cis-1,2-dichloroethene	10.229	96	457374	182.92	ug/L		99
46)	propionitrile	10.271	54	114815	451.99	ug/L		97
47)	bromochloromethane	10.544	128	60893	48.42	ug/L		97
48)	tetrahydrofuran	10.617	42	23508	43.52	ug/L		95
49)	chloroform	10.617	83	196300	50.74	ug/L		98
50)	t-butyl formate	10.696	59	70302	48.67	ug/L		95
53)	freon 113	7.608	151	91102	51.10	ug/L		98
54)	methacrylonitrile	10.486	41	56141	48.85	ug/L		97
55)	1,1,1-trichloroethane	10.916	97	181285	54.05	ug/L		98
56)	Cyclohexane	11.016	84	140242	46.40	ug/L		93
62)	n-butyl alcohol	11.823	56	110731	2851.25	ug/L		94
63)	carbon tetrachloride	11.131	117	170773	60.59	ug/L		99
64)	1,1-dichloropropene	11.095	75	138291	54.82	ug/L		98
65)	hexane	9.228	57	104991	40.03	ug/L		100
66)	benzene	11.357	78	384748	52.01	ug/L		100
67)	2,2,4-trimethylpentane	11.420	57	317997	51.54	ug/L		94
68)	tert-amyl methyl ether	11.425	73	252849	54.41	ug/L		96
69)	heptane	11.587	57	76336	59.08	ug/L		98
70)	isopropyl acetate	11.299	43	156228	52.27	ug/L		97
71)	1,2-dichloroethane	11.341	62	146548	61.87	ug/L		97
72)	trichloroethene	12.054	95	114765	56.87	ug/L		98
74)	2-nitropropane	12.762	41	25893	58.80	ug/L		90
75)	2-chloroethyl vinyl ether	12.804	63	93198	101.59	ug/L		99
76)	methyl methacrylate	12.321	100	22900	52.88	ug/L	#	83
77)	1,2-dichloropropane	12.300	63	96407	51.75	ug/L		99
78)	dibromomethane	12.432	93	64294	55.22	ug/L		98
79)	methylcyclohexane	12.306	83	156947	52.47	ug/L		97
80)	bromodichloromethane	12.557	83	149313	56.37	ug/L		98
81)	cis-1,3-dichloropropene	13.003	75	161007	52.29	ug/L		92
83)	4-methyl-2-pentanone	13.113	58	32987	55.50	ug/L	#	62
84)	toluene	13.370	92	233957	49.28	ug/L		100
85)	3-methyl-1-butanol	13.108	55	100600	1737.29	ug/L		94
86)	trans-1,3-dichloropropene	13.527	75	142691	53.43	ug/L		95
87)	ethyl methacrylate	13.548	69	107707	53.14	ug/L		95
88)	1,1,2-trichloroethane	13.721	83	70695	52.17	ug/L		96
89)	2-hexanone	13.905	58	25826	52.21	ug/L		96
91)	n-butyl ether	14.686	57	374113	48.41	ug/L		95
92)	tetrachloroethene	13.921	164	116405	55.96	ug/L		98
93)	1,3-dichloropropane	13.900	76	131863	48.77	ug/L		94
94)	butyl acetate	13.989	56	46353	48.98	ug/L		97
95)	3,3-dimethyl-1-butanol	14.057	57	61945	521.75	ug/L		96
96)	dibromochloromethane	14.141	129	124516	53.86	ug/L		99
97)	1,2-dibromoethane	14.288	107	91098	49.94	ug/L		99
98)	chlorobenzene	14.733	112	266582	51.91	ug/L		99
99)	1,1,1,2-tetrachloroethane	14.786	131	112085	53.74	ug/L		99
100)	ethylbenzene	14.796	91	428395	51.59	ug/L		98
101)	m,p-xylene	14.896	106	342123	103.89	ug/L		94
102)	o-xylene	15.278	106	176248	50.85	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134435.D
Acq On : 14 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3538-8ms
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 14:21:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.284	104	287778	51.72 ug/L	95
105) bromoform	15.504	173	95115	56.97 ug/L	99
107) isopropylbenzene	15.604	105	460373	55.50 ug/L	97
109) cyclohexanone	15.729	98	9995	165.18 ug/L	90
110) bromobenzene	15.955	156	138418	55.33 ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	102504	51.77 ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	25996	53.59 ug/L	86
113) 1,2,3-trichloropropane	15.918	110	28579	55.55 ug/L	93
114) n-propylbenzene	15.981	91	512860	57.90 ug/L	98
115) 2-chlorotoluene	16.107	126	111842	52.44 ug/L	89
116) 4-chlorotoluene	16.196	91	314074	55.21 ug/L	95
117) 1,3,5-trimethylbenzene	16.123	105	382317	56.91 ug/L	97
118) tert-butylbenzene	16.448	119	341259	56.44 ug/L	93
119) pentachloroethane	16.505	167	96851	58.70 ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	392548	59.86 ug/L	97
121) sec-butylbenzene	16.652	105	492960	55.23 ug/L	99
122) 1,3-dichlorobenzene	16.804	146	249262	53.34 ug/L	98
123) p-isopropyltoluene	16.762	119	444438	57.02 ug/L	97
124) 1,4-dichlorobenzene	16.883	146	244768	53.25 ug/L	99
125) 1,2-dichlorobenzene	17.255	146	250513	56.04 ug/L	98
126) n-butylbenzene	17.156	92	211836	56.17 ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	25074	51.47 ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	241655	56.33 ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	191548	54.10 ug/L	99
130) hexachlorobutadiene	19.001	225	127995	58.76 ug/L	100
131) naphthalene	19.143	128	266999	48.46 ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	150392	51.34 ug/L	99
133) hexachloroethane	17.533	201	105127	62.64 ug/L	97

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

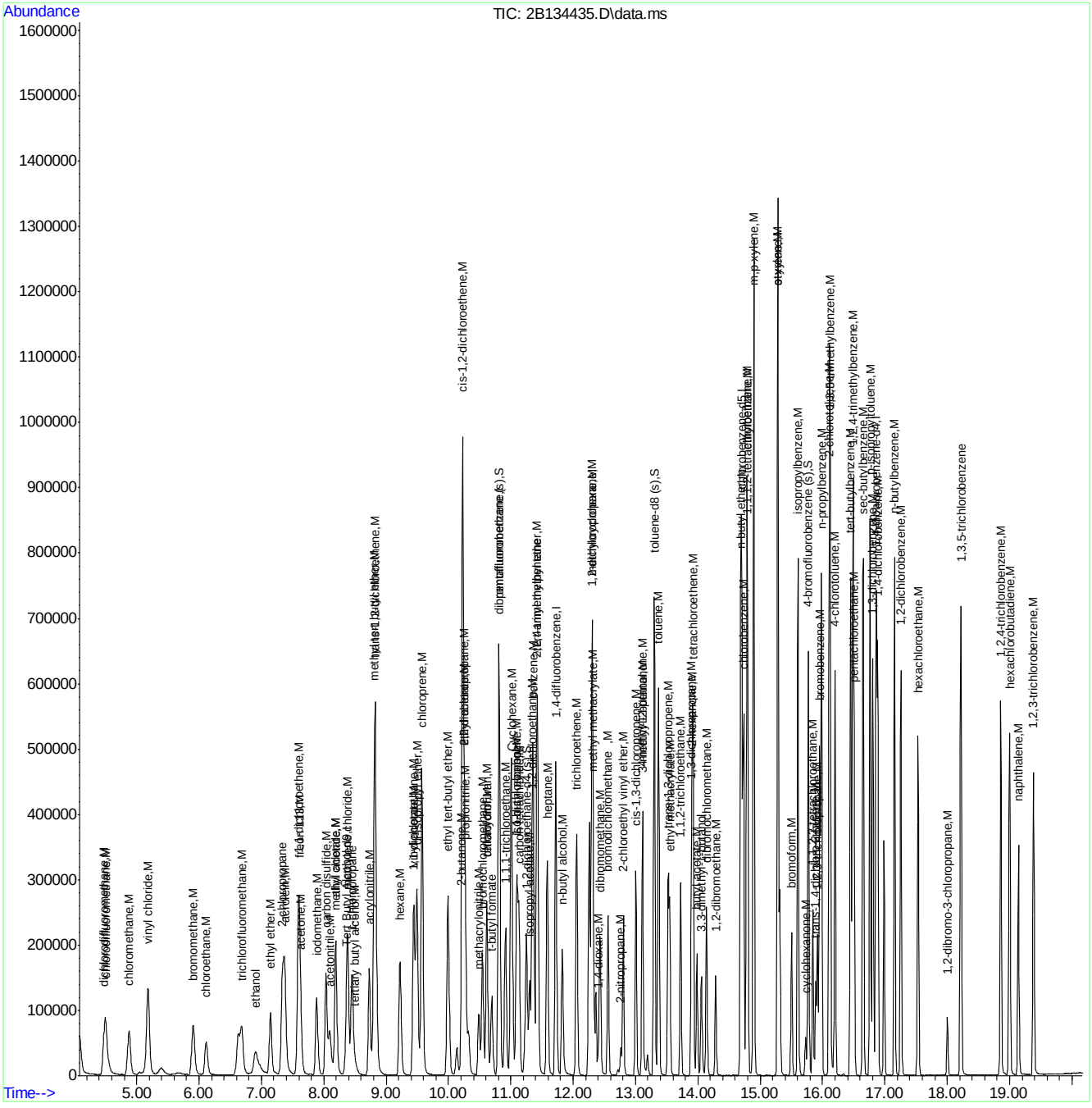
7.4.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134435.D
Acq On : 14 Sep 2015 4:53 pm
Operator : BridgetK
Sample : jc3538-8ms
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 14:21:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



M2B5926.M Tue Sep 15 14:50:02 2015 ACC-VOA-CLN-05A Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134436.D
Acq On : 14 Sep 2015 5:21 pm
Operator : BridgetK
Sample : jc3538-8msd
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:24:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	99007	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	414035	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	403105	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	344792	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	182286	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	135148	49.21	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 98.42%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	154641	54.71	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 109.42%						
82) toluene-d8 (s)	13.302	98	454249	52.92	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 105.84%						
108) 4-bromofluorobenzene (s)	15.771	95	161994	52.95	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 105.90%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	48409	209.74	ug/L	92
3) ethanol	6.905	45	105557	4444.13	ug/L	97
4) 1,4-dioxane	12.411	88	26787	1316.14	ug/L	95
9) chlorodifluoromethane	4.504	51	97100	40.06	ug/L	96
10) dichlorodifluoromethane	4.483	85	150147	41.48	ug/L	100
12) chloromethane	4.876	50	144334	43.07	ug/L	98
13) vinyl chloride	5.180	62	262078	86.48	ug/L	99
15) bromomethane	5.909	94	98187	46.41	ug/L	99
16) chloroethane	6.114	64	72754	53.09	ug/L	95
18) trichlorofluoromethane	6.685	101	203413	55.15	ug/L	99
20) ethyl ether	7.147	74	52714	45.71	ug/L	97
21) acrolein	7.377	56	159117	436.07	ug/L	99
22) 2-chloropropane	7.341	43	181096	44.78	ug/L	92
24) 1,1-dichloroethene	7.597	96	87910	44.03	ug/L	91
25) acetone	7.639	43	28263	48.77	ug/L	93
26) allyl chloride	8.195	76	53264	49.50	ug/L #	76
27) acetonitrile	8.096	40	58626	472.85	ug/L	96
28) iodomethane	7.886	142	192674	44.45	ug/L	93
29) iso-butyl alcohol	11.095	74	10754	444.84	ug/L #	46
30) carbon disulfide	8.038	76	312504	43.69	ug/L	98
31) methylene chloride	8.384	84	102407	44.70	ug/L	97
32) methyl acetate	8.190	74	13756	44.10	ug/L #	88
33) 1-chloropropane	8.452	42	180315	47.26	ug/L	97
34) methyl tert butyl ether	8.819	73	550050	99.72	ug/L	95
35) trans-1,2-dichloroethene	8.824	96	100577	44.92	ug/L	94
36) di-isopropyl ether	9.495	45	312446	46.72	ug/L	99
37) 2-butanone	10.203	72	13271	61.63	ug/L	94
38) 1,1-dichloroethane	9.438	63	184068	49.37	ug/L	97
39) chloroprene	9.574	53	353542	118.63	ug/L	95
40) acrylonitrile	8.730	53	170166	242.80	ug/L	97
41) vinyl acetate	9.448	86	17014	46.57	ug/L #	66
42) ethyl tert-butyl ether	9.993	59	295221	50.35	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134436.D
Acq On : 14 Sep 2015 5:21 pm
Operator : BridgetK
Sample : jc3538-8msd
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:24:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43)	ethyl acetate	10.256	45	12417	50.33 ug/L #	39
44)	2,2-dichloropropane	10.261	77	162300	49.03 ug/L	94
45)	cis-1,2-dichloroethene	10.229	96	448197	180.63 ug/L	99
46)	propionitrile	10.271	54	112497	446.28 ug/L	98
47)	bromochloromethane	10.549	128	59534	47.70 ug/L	97
48)	tetrahydrofuran	10.617	42	23465	43.77 ug/L	96
49)	chloroform	10.617	83	193967	50.52 ug/L	98
50)	t-butyl formate	10.696	59	69538	48.52 ug/L	98
53)	freon 113	7.613	151	91421	51.67 ug/L	99
54)	methacrylonitrile	10.486	41	54969	48.20 ug/L	94
55)	1,1,1-trichloroethane	10.916	97	181766	54.61 ug/L	99
56)	Cyclohexane	11.016	84	139248	46.42 ug/L	94
62)	n-butyl alcohol	11.823	56	117716	3053.47 ug/L	96
63)	carbon tetrachloride	11.131	117	169684	60.65 ug/L	100
64)	1,1-dichloropropene	11.095	75	137493	54.90 ug/L	98
65)	hexane	9.223	57	106185	40.78 ug/L	98
66)	benzene	11.357	78	380322	51.80 ug/L	99
67)	2,2,4-trimethylpentane	11.420	57	312997	51.11 ug/L	95
68)	tert-amyl methyl ether	11.425	73	250937	54.40 ug/L	97
69)	heptane	11.587	57	75166	58.61 ug/L	100
70)	isopropyl acetate	11.304	43	156623	52.79 ug/L	98
71)	1,2-dichloroethane	11.341	62	144739	61.56 ug/L	95
72)	trichloroethene	12.054	95	113298	56.56 ug/L	99
74)	2-nitropropane	12.762	41	26130	59.78 ug/L	97
75)	2-chloroethyl vinyl ether	12.804	63	54505	59.85 ug/L	99
76)	methyl methacrylate	12.321	100	23786	55.34 ug/L #	87
77)	1,2-dichloropropane	12.300	63	95217	51.49 ug/L	99
78)	dibromomethane	12.432	93	63096	54.59 ug/L	99
79)	methylcyclohexane	12.306	83	155748	52.46 ug/L	97
80)	bromodichloromethane	12.563	83	148527	56.48 ug/L	100
81)	cis-1,3-dichloropropene	13.003	75	160887	52.63 ug/L	91
83)	4-methyl-2-pentanone	13.113	58	33079	56.07 ug/L #	72
84)	toluene	13.370	92	230475	48.91 ug/L	98
85)	3-methyl-1-butanol	13.113	55	103639	1802.97 ug/L	95
86)	trans-1,3-dichloropropene	13.527	75	141586	53.41 ug/L	92
87)	ethyl methacrylate	13.548	69	105547	52.46 ug/L	96
88)	1,1,2-trichloroethane	13.727	83	70113	52.12 ug/L	97
89)	2-hexanone	13.910	58	25355	51.64 ug/L	95
91)	n-butyl ether	14.686	57	368727	48.01 ug/L	95
92)	tetrachloroethene	13.921	164	115031	55.63 ug/L	97
93)	1,3-dichloropropane	13.900	76	131684	49.00 ug/L	94
94)	butyl acetate	13.989	56	46052	48.96 ug/L	99
95)	3,3-dimethyl-1-butanol	14.057	57	62846	532.56 ug/L	97
96)	dibromochloromethane	14.141	129	123579	53.78 ug/L	99
97)	1,2-dibromoethane	14.282	107	89834	49.55 ug/L	97
98)	chlorobenzene	14.733	112	262825	51.49 ug/L	98
99)	1,1,1,2-tetrachloroethane	14.786	131	112052	54.05 ug/L	96
100)	ethylbenzene	14.796	91	422760	51.22 ug/L	98
101)	m,p-xylene	14.896	106	334266	102.12 ug/L	92
102)	o-xylene	15.284	106	177102	51.41 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134436.D
Acq On : 14 Sep 2015 5:21 pm
Operator : BridgetK
Sample : jc3538-8msd
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:24:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) styrene	15.284	104	285986	51.71	ug/L	96
105) bromoform	15.504	173	94814	57.13	ug/L	98
107) isopropylbenzene	15.604	105	457566	55.49	ug/L	98
109) cyclohexanone	15.729	98	10539	175.19	ug/L	90
110) bromobenzene	15.955	156	136635	54.93	ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	101415	51.52	ug/L	100
112) trans-1,4-dichloro-2-b...	15.887	53	25476	52.82	ug/L	86
113) 1,2,3-trichloropropane	15.918	110	28340	55.41	ug/L	96
114) n-propylbenzene	15.981	91	507826	57.67	ug/L	98
115) 2-chlorotoluene	16.107	126	111738	52.70	ug/L	95
116) 4-chlorotoluene	16.196	91	308550	54.55	ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	376667	56.39	ug/L	97
118) tert-butylbenzene	16.448	119	339526	56.48	ug/L	94
119) pentachloroethane	16.505	167	95186	58.02	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	390293	59.86	ug/L	96
121) sec-butylbenzene	16.652	105	489411	55.15	ug/L	99
122) 1,3-dichlorobenzene	16.804	146	245833	52.92	ug/L	98
123) p-isopropyltoluene	16.762	119	443152	57.19	ug/L	97
124) 1,4-dichlorobenzene	16.883	146	243136	53.21	ug/L	99
125) 1,2-dichlorobenzene	17.255	146	247550	55.70	ug/L	97
126) n-butylbenzene	17.156	92	211599	56.44	ug/L	97
127) 1,2-dibromo-3-chloropr...	18.005	157	25374	52.39	ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	243418	57.07	ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	193766	55.05	ug/L	99
130) hexachlorobutadiene	19.001	225	128300	59.24	ug/L	98
131) naphthalene	19.143	128	276271	50.43	ug/L	100
132) 1,2,3-trichlorobenzene	19.384	180	151084	51.88	ug/L	99
133) hexachloroethane	17.533	201	101917	61.09	ug/L	99

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

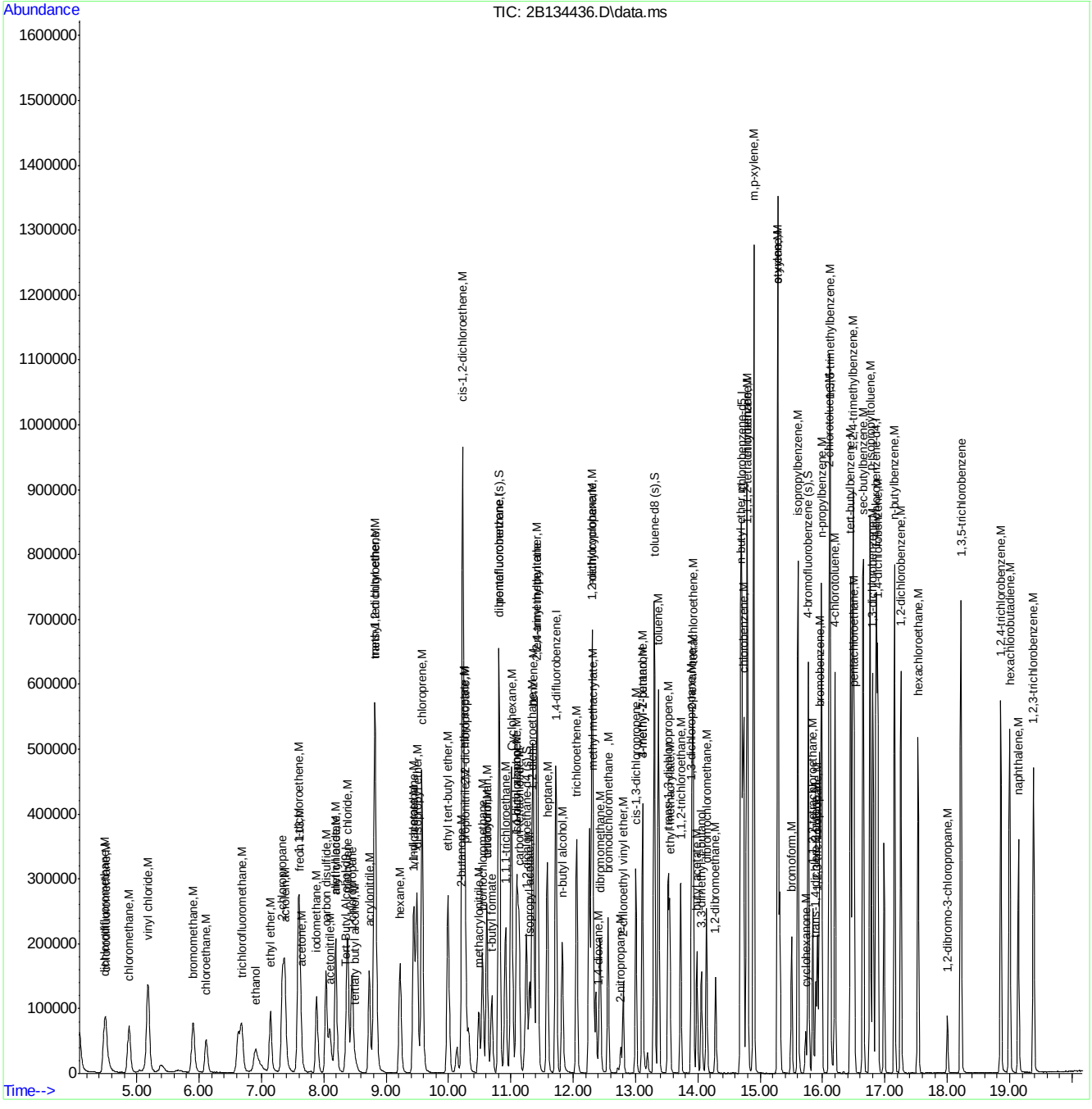
7.4.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5991\
Data File : 2B134436.D
Acq On : 14 Sep 2015 5:21 pm
Operator : BridgetK
Sample : jc3538-8msd
Misc : ms91040,v2B5990,w,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:24:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134486r.D
Acq On : 15 Sep 2015 5:49 pm
Operator : BridgetK
Sample : jc3254-20Rms
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 14:49:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	90651	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	376821	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	367016	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	312624	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	168300	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	125206	50.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.18%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	142370	55.34	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.68%			
82) toluene-d8 (s)	13.302	98	416599	53.30	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.60%			
108) 4-bromofluorobenzene (s)	15.771	95	149470	52.91	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.82%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.499	59	48589	229.92	ug/L	97
3) ethanol	6.916	45	95322	4383.15	ug/L	94
4) 1,4-dioxane	12.405	88	24250	1301.31	ug/L	94
9) chlorodifluoromethane	4.499	51	110341	50.02	ug/L	97
10) dichlorodifluoromethane	4.488	85	133666	40.57	ug/L	99
12) chloromethane	4.871	50	125243	41.06	ug/L	98
13) vinyl chloride	5.175	62	121659	44.11	ug/L	94
15) bromomethane	5.899	94	89532	46.50	ug/L	99
16) chloroethane	6.114	64	64379	51.62	ug/L	95
18) trichlorofluoromethane	6.685	101	190909	56.87	ug/L	99
20) ethyl ether	7.147	74	50127	47.76	ug/L	94
21) acrolein	7.372	56	169790	511.27	ug/L	98
22) 2-chloropropane	7.335	43	175341	47.64	ug/L	91
24) 1,1-dichloroethene	7.592	96	86898	47.83	ug/L	99
25) acetone	7.634	43	26301	49.86	ug/L	88
26) allyl chloride	8.195	76	49835	50.89	ug/L #	84
27) acetonitrile	8.101	40	49994	443.05	ug/L	92
28) iodomethane	7.886	142	193252	48.99	ug/L	94
29) iso-butyl alcohol	11.100	74	10019	455.36	ug/L #	26
30) carbon disulfide	8.038	76	320394	49.22	ug/L	96
31) methylene chloride	8.384	84	99265	47.60	ug/L	99
32) methyl acetate	8.195	74	12682	44.67	ug/L	96
33) 1-chloropropane	8.452	42	173576	49.98	ug/L	98
34) methyl tert butyl ether	8.819	73	561280	111.80	ug/L	98
35) trans-1,2-dichloroethene	8.824	96	94488	46.37	ug/L	96
36) di-isopropyl ether	9.495	45	288986	47.48	ug/L	98
37) 2-butanone	10.203	72	9623	49.11	ug/L	87
38) 1,1-dichloroethane	9.438	63	171606	50.58	ug/L	98
39) chloroprene	9.574	53	144643	53.33	ug/L	92
40) acrylonitrile	8.730	53	150728	236.30	ug/L	97
41) vinyl acetate	9.448	86	16158	48.59	ug/L	67
42) ethyl tert-butyl ether	9.994	59	288353	54.03	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134486r.D
Acq On : 15 Sep 2015 5:49 pm
Operator : BridgetK
Sample : jc3254-20Rms
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 14:49:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	11650	51.88	ug/L		77
44) 2,2-dichloropropane	10.261	77	164493	54.60	ug/L		96
45) cis-1,2-dichloroethene	10.229	96	107191	47.46	ug/L		96
46) propionitrile	10.271	54	103036	449.11	ug/L		96
47) bromochloromethane	10.544	128	56648	49.87	ug/L		98
48) tetrahydrofuran	10.617	42	20908	42.85	ug/L		99
49) chloroform	10.617	83	181886	52.05	ug/L		98
50) t-butyl formate	10.696	59	68562	52.56	ug/L		96
53) freon 113	7.618	151	98037	60.89	ug/L		97
54) methacrylonitrile	10.492	41	49456	47.65	ug/L		97
55) 1,1,1-trichloroethane	10.916	97	176300	58.20	ug/L		99
56) Cyclohexane	11.011	84	132091	48.39	ug/L		94
61) epichlorohydrin	13.113	57	38545	290.76	ug/L		56
62) n-butyl alcohol	11.823	56	101123	2880.98	ug/L		97
63) carbon tetrachloride	11.131	117	165776	65.08	ug/L		99
64) 1,1-dichloropropene	11.095	75	129833	56.94	ug/L		98
65) hexane	9.223	57	77610	32.74	ug/L		96
66) benzene	11.357	78	353188	52.83	ug/L		100
67) 2,2,4-trimethylpentane	11.420	57	312155	55.98	ug/L		95
68) tert-amyl methyl ether	11.425	73	237771	56.61	ug/L		97
69) heptane	11.587	57	66476	56.93	ug/L		98
70) isopropyl acetate	11.304	43	140068	51.85	ug/L		98
71) 1,2-dichloroethane	11.341	62	137360	64.16	ug/L		92
72) trichloroethene	12.054	95	100005	54.83	ug/L		100
74) 2-nitropropane	12.762	41	23928	60.12	ug/L		97
75) 2-chloroethyl vinyl ether	12.804	63	125633	151.52	ug/L		98
76) methyl methacrylate	12.321	100	21740	55.55	ug/L	#	81
77) 1,2-dichloropropane	12.300	63	84827	50.38	ug/L		97
78) dibromomethane	12.432	93	58674	55.75	ug/L		99
79) methylcyclohexane	12.306	83	161897	59.89	ug/L		99
80) bromodichloromethane	12.557	83	137677	57.51	ug/L		99
81) cis-1,3-dichloropropene	13.003	75	147709	53.07	ug/L		94
83) 4-methyl-2-pentanone	13.113	58	31835	59.27	ug/L	#	72
84) toluene	13.370	92	221086	51.53	ug/L		98
85) 3-methyl-1-butanol	13.108	55	89694	1713.81	ug/L		95
86) trans-1,3-dichloropropene	13.522	75	130126	53.91	ug/L		91
87) ethyl methacrylate	13.548	69	97719	53.35	ug/L		96
88) 1,1,2-trichloroethane	13.721	83	62924	51.38	ug/L		98
89) 2-hexanone	13.905	58	22457	50.23	ug/L		99
91) n-butyl ether	14.686	57	329302	47.29	ug/L		94
92) tetrachloroethene	13.921	164	102759	54.81	ug/L		96
93) 1,3-dichloropropane	13.900	76	119563	49.06	ug/L		93
94) butyl acetate	13.983	56	40784	47.82	ug/L		95
95) 3,3-dimethyl-1-butanol	14.057	57	53196	497.17	ug/L		94
96) dibromochloromethane	14.141	129	116091	55.72	ug/L		99
97) 1,2-dibromoethane	14.288	107	82443	50.15	ug/L		97
98) chlorobenzene	14.733	112	242167	52.33	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	103597	55.11	ug/L		100
100) ethylbenzene	14.796	91	1116468	149.19	ug/L		98
101) m,p-xylene	14.896	106	1238378	417.26	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134486r.D
Acq On : 15 Sep 2015 5:49 pm
Operator : BridgetK
Sample : jc3254-20Rms
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 14:49:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

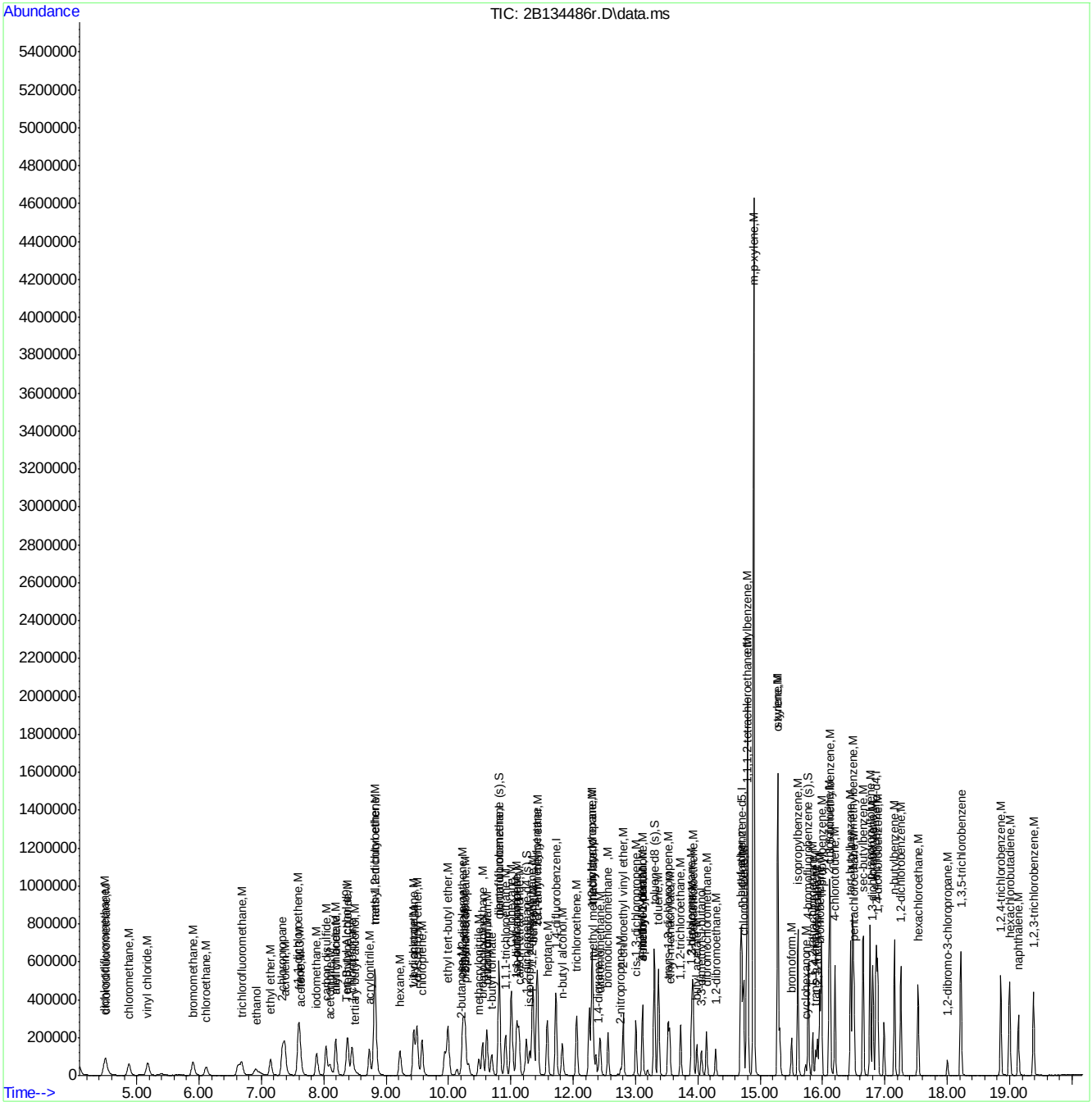
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.279	106	255981	81.95	ug/L	92
103) styrene	15.284	104	261108	52.07	ug/L	86
105) bromoform	15.504	173	87208	57.95	ug/L	98
107) isopropylbenzene	15.604	105	442469	58.11	ug/L	99
109) cyclohexanone	15.729	98	9801	176.46	ug/L	90
110) bromobenzene	15.955	156	126172	54.94	ug/L	97
111) 1,1,2,2-tetrachloroethane	15.845	83	92726	51.02	ug/L	98
112) trans-1,4-dichloro-2-b...	15.887	53	24028	53.96	ug/L	84
113) 1,2,3-trichloropropane	15.918	110	26382	55.87	ug/L	94
114) n-propylbenzene	15.981	91	475508	58.49	ug/L	97
115) 2-chlorotoluene	16.107	126	102518	52.37	ug/L	89
116) 4-chlorotoluene	16.196	91	288223	55.19	ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	356277	57.77	ug/L	96
118) tert-butylbenzene	16.448	119	317390	57.18	ug/L	94
119) pentachloroethane	16.505	167	88541	58.46	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	368702	61.25	ug/L	96
121) sec-butylbenzene	16.652	105	455726	55.62	ug/L	98
122) 1,3-dichlorobenzene	16.804	146	229109	53.41	ug/L	97
123) p-isopropyltoluene	16.762	119	411099	57.46	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	225694	53.50	ug/L	98
125) 1,2-dichlorobenzene	17.255	146	229590	55.96	ug/L	97
126) n-butylbenzene	17.156	92	194471	56.18	ug/L	97
127) 1,2-dibromo-3-chloropr...	18.005	157	24047	53.78	ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	223361	56.72	ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	178813	55.03	ug/L	100
130) hexachlorobutadiene	19.001	225	120968	60.50	ug/L	99
131) naphthalene	19.143	128	252400	49.90	ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	142281	52.92	ug/L	99
133) hexachloroethane	17.533	201	96676	62.76	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134486r.D
Acq On : 15 Sep 2015 5:49 pm
Operator : BridgetK
Sample : jc3254-20Rms
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 21 14:49:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134487r.D
Acq On : 15 Sep 2015 6:17 pm
Operator : BridgetK
Sample : jc3254-20Rmsd
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 14:49:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	88998	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	374540	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	363432	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	308158	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	163812	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	122707	49.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 98.78%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	140784	55.06	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.12%			
82) toluene-d8 (s)	13.302	98	405897	52.45	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.90%			
108) 4-bromofluorobenzene (s)	15.771	95	146933	53.44	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 106.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.499	59	48101	231.84	ug/L	99
3) ethanol	6.905	45	89234	4179.42	ug/L	98
4) 1,4-dioxane	12.411	88	23368	1277.28	ug/L	93
9) chlorodifluoromethane	4.504	51	110449	50.37	ug/L	94
10) dichlorodifluoromethane	4.483	85	136777	41.77	ug/L	98
12) chloromethane	4.871	50	118117	38.96	ug/L	99
13) vinyl chloride	5.175	62	122096	44.54	ug/L	95
15) bromomethane	5.899	94	87682	45.82	ug/L	94
16) chloroethane	6.114	64	62890	50.73	ug/L	91
18) trichlorofluoromethane	6.675	101	187508	56.20	ug/L	96
20) ethyl ether	7.147	74	49112	47.08	ug/L	98
21) acrolein	7.372	56	167388	507.11	ug/L	99
22) 2-chloropropane	7.335	43	169872	46.44	ug/L	88
24) 1,1-dichloroethene	7.597	96	84149	46.60	ug/L	89
25) acetone	7.634	43	25984	49.56	ug/L	97
26) allyl chloride	8.195	76	48919	50.26	ug/L #	82
27) acetonitrile	8.096	40	47989	427.87	ug/L	96
28) iodomethane	7.886	142	188462	48.07	ug/L	92
29) iso-butyl alcohol	11.095	74	9852	450.50	ug/L #	37
30) carbon disulfide	8.038	76	307683	47.56	ug/L	97
31) methylene chloride	8.384	84	94963	45.82	ug/L	97
32) methyl acetate	8.185	74	12639	44.79	ug/L	98
33) 1-chloropropane	8.452	42	167472	48.52	ug/L	98
34) methyl tert butyl ether	8.819	73	547341	109.69	ug/L	99
35) trans-1,2-dichloroethene	8.824	96	92321	45.58	ug/L	96
36) di-isopropyl ether	9.495	45	280143	46.31	ug/L	98
37) 2-butanone	10.203	72	9392	48.22	ug/L #	79
38) 1,1-dichloroethane	9.438	63	168164	49.86	ug/L	98
39) chloroprene	9.574	53	141632	52.54	ug/L	94
40) acrylonitrile	8.730	53	146978	231.82	ug/L	98
41) vinyl acetate	9.443	86	15139	45.80	ug/L	77
42) ethyl tert-butyl ether	9.994	59	281498	53.07	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134487r.D
Acq On : 15 Sep 2015 6:17 pm
Operator : BridgetK
Sample : jc3254-20Rmsd
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 14:49:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.245	45	11034	49.44	ug/L		88
44) 2,2-dichloropropane	10.256	77	160324	53.55	ug/L		96
45) cis-1,2-dichloroethene	10.229	96	102943	45.86	ug/L		94
46) propionitrile	10.271	54	99545	436.54	ug/L		97
47) bromochloromethane	10.549	128	55032	48.74	ug/L		96
48) tetrahydrofuran	10.617	42	24677	50.89	ug/L		99
49) chloroform	10.612	83	178038	51.26	ug/L		99
50) t-butyl formate	10.696	59	67479	52.04	ug/L		95
53) freon 113	7.613	151	97581	60.97	ug/L		96
54) methacrylonitrile	10.486	41	47775	46.31	ug/L		98
55) 1,1,1-trichloroethane	10.916	97	172305	57.22	ug/L		98
56) Cyclohexane	11.016	84	129707	47.80	ug/L		87
61) epichlorohydrin	13.113	57	37290	284.06	ug/L		56
62) n-butyl alcohol	11.823	56	97284	2798.94	ug/L		99
63) carbon tetrachloride	11.131	117	162745	64.52	ug/L		99
64) 1,1-dichloropropene	11.095	75	127170	56.33	ug/L		98
65) hexane	9.223	57	76531	32.60	ug/L		99
66) benzene	11.357	78	341714	51.62	ug/L		99
67) 2,2,4-trimethylpentane	11.420	57	302147	54.72	ug/L		96
68) tert-amyl methyl ether	11.425	73	234084	56.28	ug/L		96
69) heptane	11.582	57	64668	55.93	ug/L		98
70) isopropyl acetate	11.299	43	136616	51.07	ug/L		98
71) 1,2-dichloroethane	11.341	62	135203	63.78	ug/L		94
72) trichloroethene	12.059	95	98570	54.58	ug/L		99
74) 2-nitropropane	12.762	41	23434	59.46	ug/L		89
75) 2-chloroethyl vinyl ether	12.804	63	109947	133.91	ug/L		97
76) methyl methacrylate	12.321	100	20977	54.13	ug/L	#	79
77) 1,2-dichloropropane	12.300	63	83590	50.14	ug/L		100
78) dibromomethane	12.432	93	57083	54.78	ug/L		98
79) methylcyclohexane	12.306	83	157679	58.90	ug/L		98
80) bromodichloromethane	12.557	83	136798	57.70	ug/L		100
81) cis-1,3-dichloropropene	13.003	75	144316	52.36	ug/L		94
83) 4-methyl-2-pentanone	13.113	58	31123	58.51	ug/L	#	70
84) toluene	13.370	92	216465	50.95	ug/L		100
85) 3-methyl-1-butanol	13.113	55	87361	1685.69	ug/L		94
86) trans-1,3-dichloropropene	13.527	75	128373	53.71	ug/L		92
87) ethyl methacrylate	13.548	69	93862	51.75	ug/L		96
88) 1,1,2-trichloroethane	13.727	83	61320	50.56	ug/L		97
89) 2-hexanone	13.905	58	21912	49.50	ug/L		96
91) n-butyl ether	14.686	57	322978	47.05	ug/L		94
92) tetrachloroethene	13.921	164	102504	55.47	ug/L		98
93) 1,3-dichloropropane	13.900	76	117968	49.11	ug/L		94
94) butyl acetate	13.983	56	39053	46.45	ug/L		95
95) 3,3-dimethyl-1-butanol	14.057	57	52104	494.02	ug/L		92
96) dibromochloromethane	14.141	129	113151	55.10	ug/L		100
97) 1,2-dibromoethane	14.288	107	81422	50.25	ug/L		97
98) chlorobenzene	14.733	112	239594	52.52	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.786	131	102172	55.14	ug/L		98
100) ethylbenzene	14.796	91	1101306	149.29	ug/L		98
101) m,p-xylene	14.896	106	1215515	415.49	ug/L		96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134487r.D
Acq On : 15 Sep 2015 6:17 pm
Operator : BridgetK
Sample : jc3254-20Rmsd
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 14:49:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	252092	81.87 ug/L	96
103) styrene	15.284	104	258764	52.35 ug/L	85
105) bromoform	15.504	173	85458	57.61 ug/L	99
107) isopropylbenzene	15.604	105	432130	58.31 ug/L	96
109) cyclohexanone	15.729	98	9676	178.98 ug/L	90
110) bromobenzene	15.955	156	124135	55.54 ug/L	97
111) 1,1,2,2-tetrachloroethane	15.845	83	89151	50.40 ug/L	97
112) trans-1,4-dichloro-2-b...	15.887	53	23929	55.21 ug/L #	81
113) 1,2,3-trichloropropane	15.918	110	25771	56.07 ug/L	96
114) n-propylbenzene	15.981	91	464841	58.74 ug/L	97
115) 2-chlorotoluene	16.107	126	100326	52.65 ug/L	89
116) 4-chlorotoluene	16.196	91	283774	55.83 ug/L	95
117) 1,3,5-trimethylbenzene	16.123	105	347112	57.83 ug/L	97
118) tert-butylbenzene	16.448	119	312841	57.91 ug/L	93
119) pentachloroethane	16.505	167	87942	59.65 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	357040	60.94 ug/L	97
121) sec-butylbenzene	16.652	105	442987	55.55 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	223663	53.57 ug/L	98
123) p-isopropyltoluene	16.762	119	404412	58.07 ug/L	96
124) 1,4-dichlorobenzene	16.883	146	220473	53.69 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	223598	55.99 ug/L	96
126) n-butylbenzene	17.150	92	191171	56.74 ug/L	98
127) 1,2-dibromo-3-chloropr...	18.000	157	22516	51.74 ug/L	88
128) 1,3,5-trichlorobenzene	18.220	180	219976	57.39 ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	175957	55.63 ug/L	98
130) hexachlorobutadiene	19.001	225	119833	61.57 ug/L	95
131) naphthalene	19.137	128	251045	51.00 ug/L	100
132) 1,2,3-trichlorobenzene	19.384	180	139181	53.18 ug/L	99
133) hexachloroethane	17.533	201	95227	63.52 ug/L	97

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

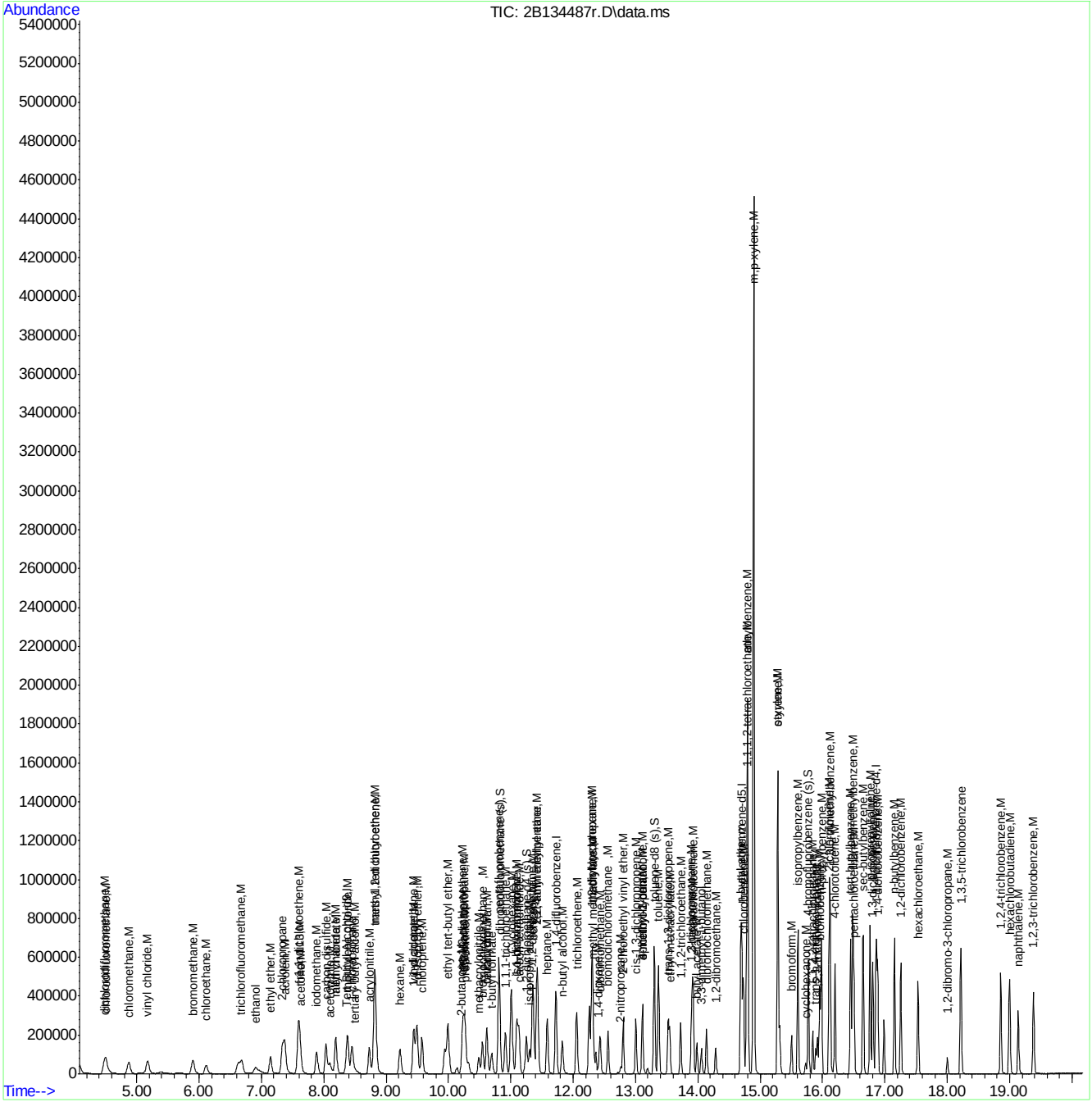
7.4.11

7

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2b\retrieve data\v2b5992\
Data File : 2B134487r.D
Acq On : 15 Sep 2015 6:17 pm
Operator : BridgetK
Sample : jc3254-20Rmsd
Misc : ms90559,v2B5992,w,,,,25
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 14:49:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134533.D
Acq On : 16 Sep 2015 5:03 pm
Operator : BridgetK
Sample : jc3669-14ms
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 18 09:07:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	83869	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	344952	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	332360	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	281775	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	148907	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	110059	48.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 96.20%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	131771	55.95	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.90%			
82) toluene-d8 (s)	13.302	98	364702	51.53	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.06%			
108) 4-bromofluorobenzene (s)	15.771	95	132417	52.98	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.96%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	41194	210.69	ug/L	95
3) ethanol	6.911	45	77867	3870.06	ug/L	97
4) 1,4-dioxane	12.405	88	20094	1165.49	ug/L	91
9) chlorodifluoromethane	4.509	51	87967	43.56	ug/L	94
10) dichlorodifluoromethane	4.483	85	142877	47.38	ug/L	98
12) chloromethane	4.871	50	115807	41.48	ug/L	99
13) vinyl chloride	5.175	62	115869	45.89	ug/L	94
15) bromomethane	5.904	94	82882	47.02	ug/L	95
16) chloroethane	6.114	64	57777	50.61	ug/L	95
18) trichlorofluoromethane	6.685	101	185058	60.22	ug/L	99
20) ethyl ether	7.141	74	46434	48.33	ug/L	97
21) acrolein	7.372	56	159074	523.26	ug/L	96
22) 2-chloropropane	7.335	43	150251	44.60	ug/L	88
24) 1,1-dichloroethene	7.597	96	76775	46.16	ug/L	89
25) acetone	7.634	43	24256	50.24	ug/L	86
26) allyl chloride	8.195	76	44875	50.06	ug/L #	87
27) acetonitrile	8.096	40	46594	451.07	ug/L	90
28) iodomethane	7.886	142	174587	48.35	ug/L	93
29) iso-butyl alcohol	11.095	74	8836	438.70	ug/L #	32
30) carbon disulfide	8.038	76	277200	46.52	ug/L	96
31) methylene chloride	8.379	84	93924	49.20	ug/L	93
32) methyl acetate	8.185	74	11208	43.13	ug/L	94
33) 1-chloropropane	8.452	42	153017	48.13	ug/L	97
34) methyl tert butyl ether	8.819	73	479699	104.38	ug/L	100
35) trans-1,2-dichloroethene	8.824	96	82044	43.98	ug/L	94
36) di-isopropyl ether	9.490	45	247285	44.39	ug/L	96
37) 2-butanone	10.203	72	8721	48.61	ug/L #	86
38) 1,1-dichloroethane	9.438	63	151866	48.89	ug/L	99
39) chloroprene	9.574	53	126490	50.94	ug/L	94
40) acrylonitrile	8.730	53	134516	230.37	ug/L	94
41) vinyl acetate	9.448	86	14250	46.81	ug/L #	77
42) ethyl tert-butyl ether	9.994	59	246742	50.51	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134533.D
Acq On : 16 Sep 2015 5:03 pm
Operator : BridgetK
Sample : jc3669-14ms
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 18 09:07:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.245	45	8859	43.10	ug/L		94
44)	2,2-dichloropropane	10.256	77	146381	53.08	ug/L		94
45)	cis-1,2-dichloroethene	10.224	96	94099	45.52	ug/L		96
46)	propionitrile	10.271	54	91876	437.46	ug/L		96
47)	bromochloromethane	10.544	128	51003	49.05	ug/L		95
48)	tetrahydrofuran	10.617	42	18144	40.62	ug/L		94
49)	chloroform	10.612	83	189939	59.38	ug/L		98
50)	t-butyl formate	10.691	59	62663	52.47	ug/L		95
53)	freon 113	7.618	151	85144	57.76	ug/L		92
54)	methacrylonitrile	10.481	41	43054	45.31	ug/L		95
55)	1,1,1-trichloroethane	10.911	97	158280	57.08	ug/L		98
56)	Cyclohexane	11.011	84	115465	46.20	ug/L		98
62)	n-butyl alcohol	11.823	56	84339	2653.36	ug/L		95
63)	carbon tetrachloride	11.131	117	151016	65.47	ug/L		97
64)	1,1-dichloropropene	11.095	75	113045	54.75	ug/L		99
65)	hexane	9.223	57	78758	36.69	ug/L		99
66)	benzene	11.357	78	1155467	190.86	ug/L		100
67)	2,2,4-trimethylpentane	11.420	57	242257	47.98	ug/L		92
68)	tert-amyl methyl ether	11.425	73	207003	54.42	ug/L		95
69)	heptane	11.582	57	51905	49.08	ug/L		95
70)	isopropyl acetate	11.299	43	124901	51.06	ug/L		99
71)	1,2-dichloroethane	11.341	62	131312	67.73	ug/L		91
72)	trichloroethene	12.054	95	88691	53.70	ug/L		98
74)	2-nitropropane	12.762	41	22403	62.16	ug/L		94
75)	2-chloroethyl vinyl ether	12.804	63	144456	192.39	ug/L		98
76)	methyl methacrylate	12.321	100	19409	54.76	ug/L		96
77)	1,2-dichloropropane	12.300	63	73160	47.98	ug/L		99
78)	dibromomethane	12.432	93	52713	55.31	ug/L		97
79)	methylcyclohexane	12.306	83	133627	54.59	ug/L		99
80)	bromodichloromethane	12.557	83	125677	57.97	ug/L		97
81)	cis-1,3-dichloropropene	13.003	75	129653	51.44	ug/L		92
83)	4-methyl-2-pentanone	13.113	58	25070	51.54	ug/L	#	69
84)	toluene	13.370	92	188342	48.48	ug/L		99
85)	3-methyl-1-butanol	13.108	55	77694	1639.31	ug/L		95
86)	trans-1,3-dichloropropene	13.522	75	115868	53.01	ug/L		93
87)	ethyl methacrylate	13.548	69	84801	51.12	ug/L		95
88)	1,1,2-trichloroethane	13.721	83	55565	50.10	ug/L		96
89)	2-hexanone	13.905	58	20103	49.66	ug/L		96
91)	n-butyl ether	14.686	57	279076	44.46	ug/L	#	92
92)	tetrachloroethene	13.921	164	92842	54.94	ug/L		97
93)	1,3-dichloropropane	13.900	76	104922	47.77	ug/L		93
94)	butyl acetate	13.983	56	36031	46.87	ug/L		94
95)	3,3-dimethyl-1-butanol	14.057	57	46873	486.04	ug/L		90
96)	dibromochloromethane	14.141	129	105671	56.28	ug/L		98
97)	1,2-dibromoethane	14.288	107	74180	50.07	ug/L		97
98)	chlorobenzene	14.733	112	216638	51.94	ug/L		99
99)	1,1,1,2-tetrachloroethane	14.786	131	94690	55.89	ug/L		93
100)	ethylbenzene	14.796	91	349165	51.76	ug/L		96
101)	m,p-xylene	14.896	106	272636	101.92	ug/L		90
102)	o-xylene	15.279	106	141441	50.24	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134533.D
Acq On : 16 Sep 2015 5:03 pm
Operator : BridgetK
Sample : jc3669-14ms
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 18 09:07:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

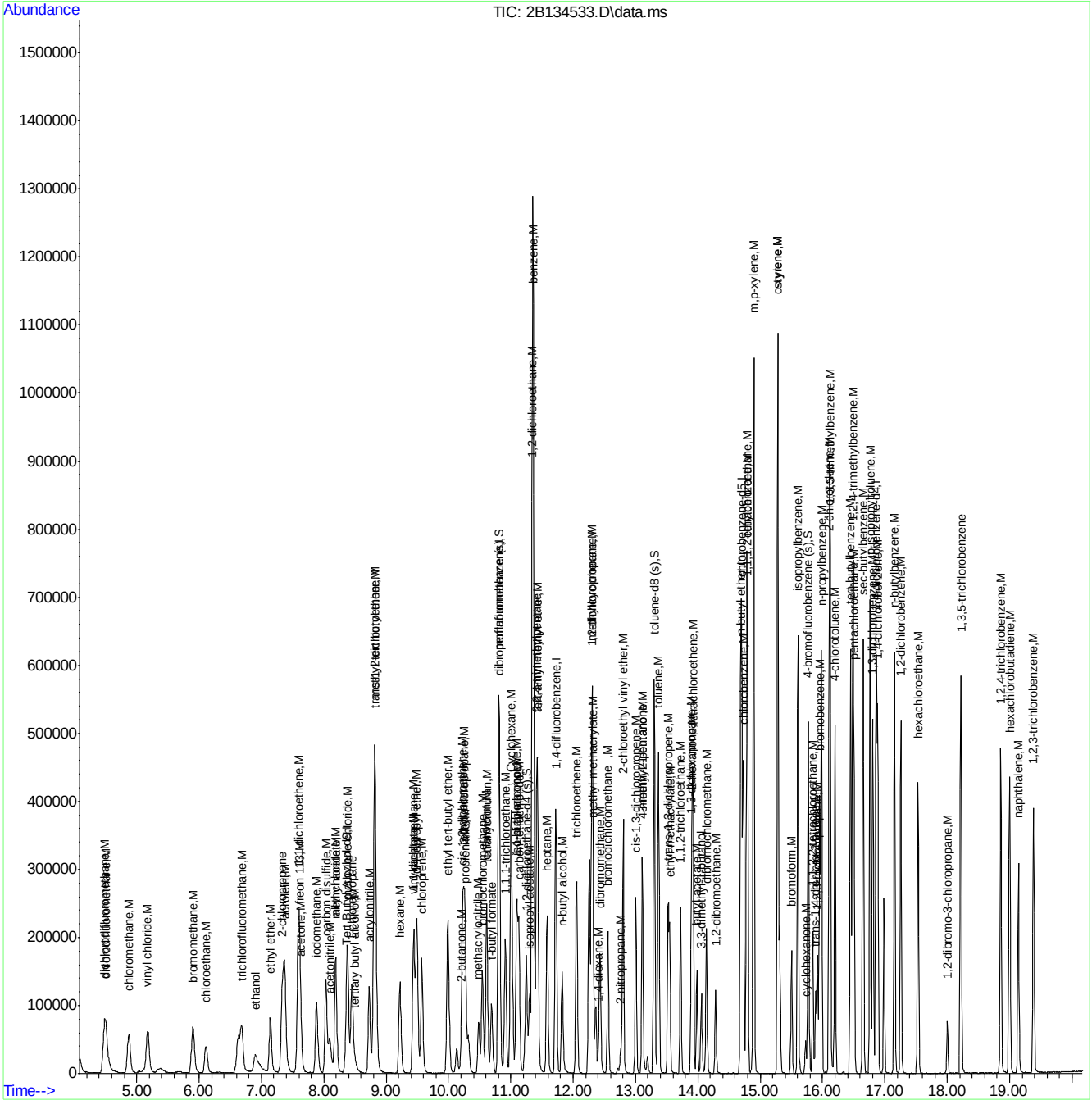
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) styrene	15.284	104	227125	50.25	ug/L	94
105) bromoform	15.504	173	78750	58.06	ug/L	99
107) isopropylbenzene	15.604	105	372574	55.31	ug/L	96
109) cyclohexanone	15.729	98	8191	166.68	ug/L	91
110) bromobenzene	15.955	156	112630	55.43	ug/L	99
111) 1,1,2,2-tetrachloroethane	15.845	83	81288	50.55	ug/L	96
112) trans-1,4-dichloro-2-b...	15.887	53	21767	55.25	ug/L	80
113) 1,2,3-trichloropropane	15.918	110	24061	57.59	ug/L	91
114) n-propylbenzene	15.981	91	414327	57.60	ug/L	97
115) 2-chlorotoluene	16.107	126	89402	51.62	ug/L	85
116) 4-chlorotoluene	16.196	91	253392	54.84	ug/L	95
117) 1,3,5-trimethylbenzene	16.123	105	312331	57.24	ug/L	96
118) tert-butylbenzene	16.448	119	279198	56.85	ug/L	93
119) pentachloroethane	16.500	167	79118	59.04	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	326845	61.37	ug/L	95
121) sec-butylbenzene	16.652	105	393332	54.26	ug/L	98
122) 1,3-dichlorobenzene	16.804	146	201092	52.99	ug/L	98
123) p-isopropyltoluene	16.762	119	358532	56.64	ug/L	97
124) 1,4-dichlorobenzene	16.883	146	196698	52.69	ug/L	98
125) 1,2-dichlorobenzene	17.255	146	202086	55.67	ug/L	97
126) n-butylbenzene	17.156	92	168400	54.98	ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	21847	55.22	ug/L	96
128) 1,3,5-trichlorobenzene	18.220	180	197120	56.57	ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	159347	55.42	ug/L	99
130) hexachlorobutadiene	19.001	225	105486	59.63	ug/L	98
131) naphthalene	19.143	128	231756	51.79	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	127304	53.51	ug/L	99
133) hexachloroethane	17.533	201	85061	62.41	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134533.D
Acq On : 16 Sep 2015 5:03 pm
Operator : BridgetK
Sample : jc3669-14ms
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 18 09:07:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/18/15 13:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 18 09:08:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	80168	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	340738	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	323353	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	277038	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	144247	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	109875	48.61	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 97.22%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	128426	55.21	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 110.42%						
82) toluene-d8 (s)	13.302	98	359012	52.14	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 104.28%						
108) 4-bromofluorobenzene (s)	15.771	95	129690	53.57	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 107.14%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.499	59	40325	215.77	ug/L	93
3) ethanol	6.910	45	78183	4065.15	ug/L	99
4) 1,4-dioxane	12.410	88	20408	1238.35	ug/L	93
9) chlorodifluoromethane	4.504	51	80674	40.44	ug/L	90
10) dichlorodifluoromethane	4.488	85	134013	44.99	ug/L	98
12) chloromethane	4.876	50	105762	38.35	ug/L	97
13) vinyl chloride	5.180	62	107738	43.20	ug/L	98
15) bromomethane	5.904	94	78074	44.84	ug/L	96
16) chloroethane	6.114	64	54512	48.34	ug/L	94
18) trichlorofluoromethane	6.680	101	175211	57.72	ug/L	95
20) ethyl ether	7.146	74	43066	45.38	ug/L	97
21) acrolein	7.372	56	143871	479.10	ug/L	99
22) 2-chloropropane	7.335	43	138986	41.76	ug/L	86
24) 1,1-dichloroethene	7.597	96	72399	44.07	ug/L	95
25) acetone	7.634	43	22662	47.51	ug/L	99
26) allyl chloride	8.190	76	42352	47.83	ug/L #	83
27) acetonitrile	8.101	40	40732	399.20	ug/L	92
28) iodomethane	7.886	142	165631	46.43	ug/L	91
29) iso-butyl alcohol	11.100	74	8862	445.43	ug/L #	24
30) carbon disulfide	8.038	76	261165	44.37	ug/L	96
31) methylene chloride	8.384	84	87972	46.66	ug/L	97
32) methyl acetate	8.185	74	10426	40.61	ug/L	91
33) 1-chloropropane	8.452	42	142381	45.34	ug/L	96
34) methyl tert butyl ether	8.819	73	456417	100.54	ug/L	99
35) trans-1,2-dichloroethene	8.824	96	79806	43.31	ug/L	97
36) di-isopropyl ether	9.490	45	233840	42.49	ug/L	97
37) 2-butanone	10.208	72	8049	45.42	ug/L	90
38) 1,1-dichloroethane	9.438	63	143927	46.91	ug/L	98
39) chloroprene	9.574	53	120529	49.14	ug/L	93
40) acrylonitrile	8.730	53	125737	218.00	ug/L	99
41) vinyl acetate	9.448	86	13636	45.35	ug/L	94
42) ethyl tert-butyl ether	9.993	59	236349	48.98	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 18 09:08:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) ethyl acetate	10.245	45	9578	47.17 ug/L	89
44) 2,2-dichloropropane	10.256	77	139892	51.36 ug/L	96
45) cis-1,2-dichloroethene	10.229	96	89394	43.78 ug/L	96
46) propionitrile	10.271	54	87182	420.25 ug/L	96
47) bromochloromethane	10.549	128	48446	47.17 ug/L	94
48) tetrahydrofuran	10.617	42	20805	47.16 ug/L	94
49) chloroform	10.617	83	181908	57.57 ug/L	97
50) t-butyl formate	10.696	59	59942	50.82 ug/L	87
53) freon 113	7.613	151	81172	55.75 ug/L	93
54) methacrylonitrile	10.486	41	40841	43.52 ug/L	93
55) 1,1,1-trichloroethane	10.916	97	152124	55.53 ug/L	98
56) Cyclohexane	11.011	84	110506	44.77 ug/L	91
62) n-butyl alcohol	11.823	56	82992	2683.71 ug/L	95
63) carbon tetrachloride	11.131	117	145534	64.85 ug/L	98
64) 1,1-dichloropropene	11.094	75	108222	53.87 ug/L	98
65) hexane	9.223	57	74489	35.66 ug/L	95
66) benzene	11.357	78	1103863	187.41 ug/L	99
67) 2,2,4-trimethylpentane	11.420	57	226989	46.21 ug/L	94
68) tert-amyl methyl ether	11.425	73	198887	53.75 ug/L	97
69) heptane	11.582	57	48616	47.25 ug/L	97
70) isopropyl acetate	11.299	43	117745	49.47 ug/L	96
71) 1,2-dichloroethane	11.341	62	126701	67.18 ug/L	91
72) trichloroethene	12.054	95	85042	52.92 ug/L	97
74) 2-nitropropane	12.767	41	21538	61.43 ug/L	99
75) 2-chloroethyl vinyl ether	12.804	63	122920	168.27 ug/L	98
76) methyl methacrylate	12.321	100	18637	54.05 ug/L	93
77) 1,2-dichloropropane	12.300	63	70270	47.37 ug/L	99
78) dibromomethane	12.431	93	51065	55.07 ug/L	97
79) methylcyclohexane	12.306	83	127120	53.37 ug/L	99
80) bromodichloromethane	12.557	83	121222	57.47 ug/L	99
81) cis-1,3-dichloropropene	13.003	75	123612	50.41 ug/L	90
83) 4-methyl-2-pentanone	13.113	58	24113	50.95 ug/L #	69
84) toluene	13.370	92	181004	47.88 ug/L	97
85) 3-methyl-1-butanol	13.108	55	76710	1663.64 ug/L	96
86) trans-1,3-dichloropropene	13.522	75	113673	53.45 ug/L	92
87) ethyl methacrylate	13.548	69	80635	49.96 ug/L	96
88) 1,1,2-trichloroethane	13.726	83	54141	50.18 ug/L	98
89) 2-hexanone	13.905	58	18961	48.14 ug/L	97
91) n-butyl ether	14.686	57	268951	43.58 ug/L	94
92) tetrachloroethene	13.920	164	88220	53.10 ug/L	98
93) 1,3-dichloropropane	13.899	76	101305	46.91 ug/L	98
94) butyl acetate	13.989	56	34153	45.19 ug/L	96
95) 3,3-dimethyl-1-butanol	14.057	57	45125	475.91 ug/L	97
96) dibromochloromethane	14.141	129	102241	55.38 ug/L	99
97) 1,2-dibromoethane	14.287	107	71566	49.13 ug/L	99
98) chlorobenzene	14.733	112	207595	50.62 ug/L	98
99) 1,1,1,2-tetrachloroethane	14.786	131	89751	53.88 ug/L	96
100) ethylbenzene	14.796	91	333839	50.34 ug/L	98
101) m,p-xylene	14.896	106	260312	98.98 ug/L	89
102) o-xylene	15.278	106	135741	49.04 ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 18 09:08:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

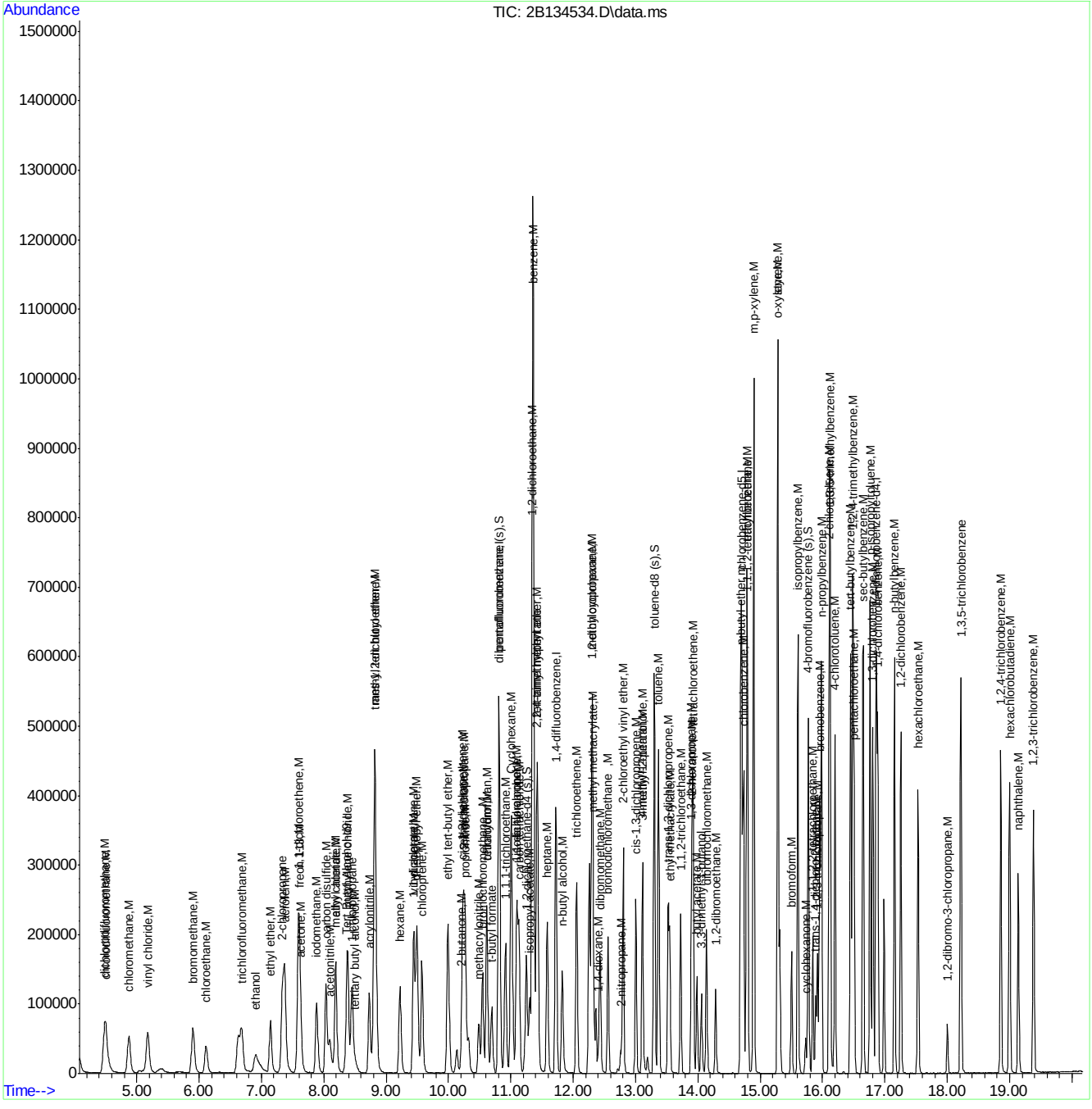
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) styrene	15.284	104	219506	49.40	ug/L	94
105) bromoform	15.504	173	77123	57.84	ug/L	98
107) isopropylbenzene	15.603	105	359328	55.06	ug/L	97
109) cyclohexanone	15.729	98	8828	185.45	ug/L	90
110) bromobenzene	15.955	156	109116	55.44	ug/L	98
111) 1,1,2,2-tetrachloroethane	15.845	83	76736	49.26	ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	19823	51.94	ug/L #	79
113) 1,2,3-trichloropropane	15.918	110	22937	56.67	ug/L	96
114) n-propylbenzene	15.981	91	398414	57.17	ug/L	98
115) 2-chlorotoluene	16.107	126	85936m	51.22	ug/L	
116) 4-chlorotoluene	16.196	91	244822	54.70	ug/L	95
117) 1,3,5-trimethylbenzene	16.123	105	304337	57.58	ug/L	93
118) tert-butylbenzene	16.448	119	270036	56.76	ug/L	92
119) pentachloroethane	16.505	167	77402	59.63	ug/L	96
120) 1,2,4-trimethylbenzene	16.484	105	313046	60.67	ug/L	94
121) sec-butylbenzene	16.652	105	378438	53.89	ug/L	98
122) 1,3-dichlorobenzene	16.804	146	193675	52.68	ug/L	98
123) p-isopropyltoluene	16.762	119	349582	57.01	ug/L	97
124) 1,4-dichlorobenzene	16.883	146	191446	52.94	ug/L	97
125) 1,2-dichlorobenzene	17.255	146	194167	55.21	ug/L	97
126) n-butylbenzene	17.155	92	160444	54.08	ug/L	100
127) 1,2-dibromo-3-chloropr...	18.005	157	20277	52.91	ug/L	94
128) 1,3,5-trichlorobenzene	18.220	180	189662	56.19	ug/L	100
129) 1,2,4-trichlorobenzene	18.859	180	154735	55.56	ug/L	99
130) hexachlorobutadiene	19.001	225	102769	59.97	ug/L	97
131) naphthalene	19.142	128	219945	50.74	ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	122113	52.99	ug/L	97
133) hexachloroethane	17.533	201	80641	61.08	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 18 09:08:50 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Manual Integration Approval Summary

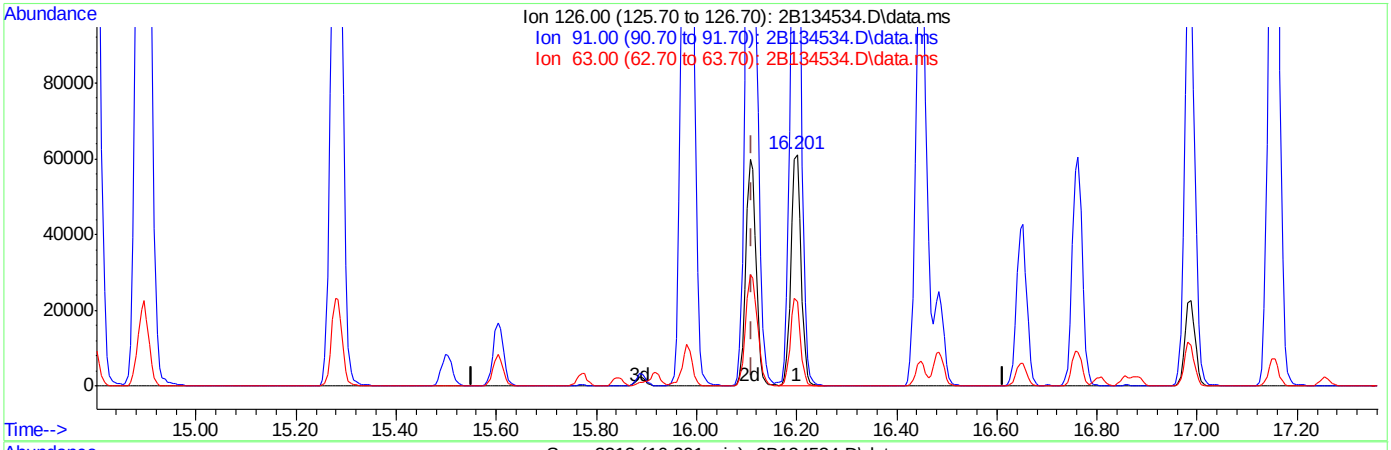
Sample Number:	JC3669-14MSD	**Method:**	SW846 8260C
Lab FileID:	2B134534.D	**Analyst approved:**	09/18/15 11:16 Maricela Delgaolillo
Injection Time:	09/16/15 17:32	**Supervisor approved:**	09/18/15 13:35 Kanya Veerawat

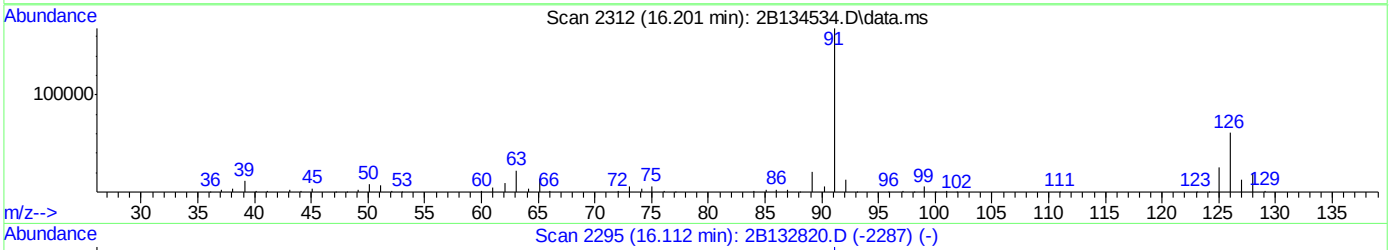
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Chlorotoluene	95-49-8		16.11	Poor instrument integration

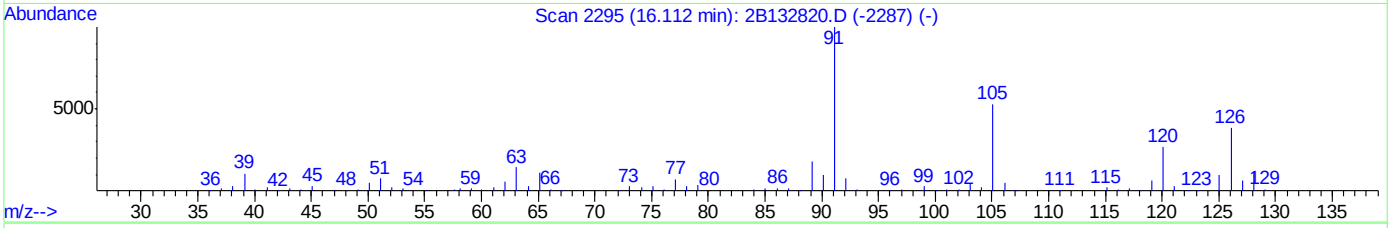
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 17 16:47:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration







TIC: 2B134534.D\data.ms

(115) 2-chlorotoluene (M)

16.201min (+0.089) 51.62ug/L

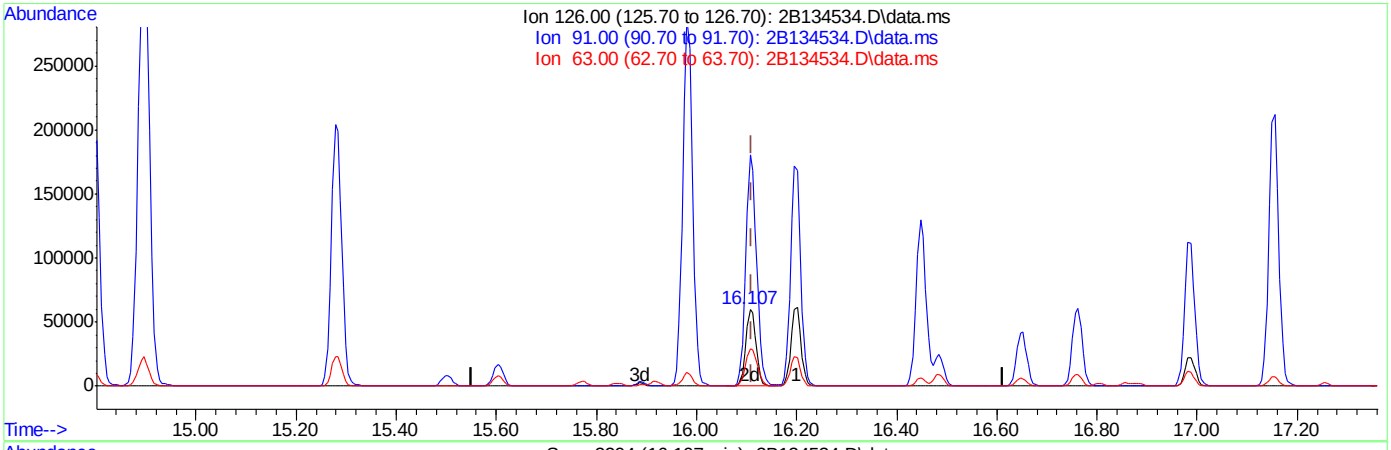
response 86611

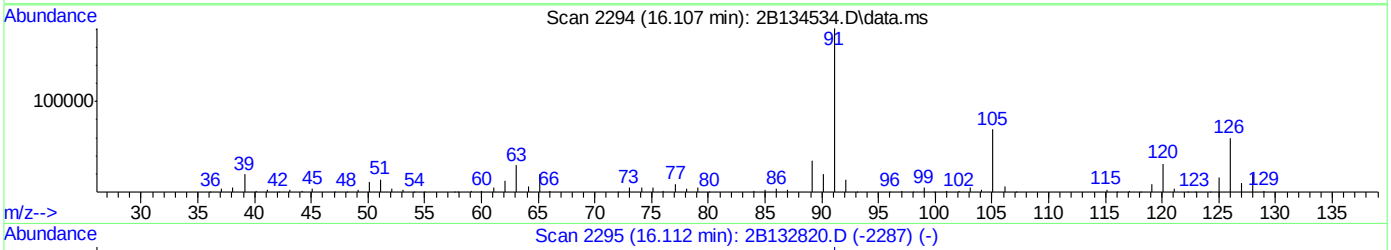
Ion	Exp%	Act%
126.00	100	100
91.00	269.30	275.33
63.00	38.60	36.25
0.00	0.00	0.00

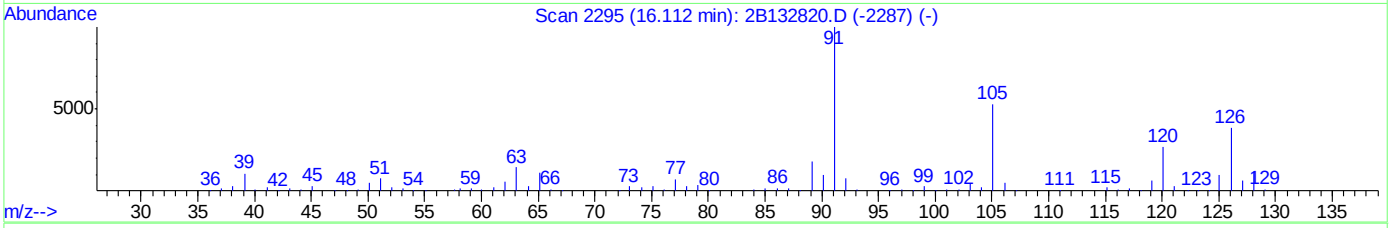
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134534.D
Acq On : 16 Sep 2015 5:32 pm
Operator : BridgetK
Sample : jc3669-14msd
Misc : ms91115,v2B5994,w,,,,50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 17 16:47:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration







TIC: 2B134534.D\data.ms

(115) 2-chlorotoluene (M)

16.107min (-0.005) 51.22ug/L m

response 85936

Ion	Exp%	Act%
126.00	100	100
91.00	269.30	301.83#
63.00	38.60	49.33
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134562.D
Acq On : 17 Sep 2015 4:28 pm
Operator : BridgetK
Sample : jc3795-7ms
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 11:55:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	95076	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	426983	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	417472	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	352790	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	191755	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	143034	50.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.00%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	169653	58.20	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 116.40%			
82) toluene-d8 (s)	13.302	98	466243	52.44	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 104.88%			
108) 4-bromofluorobenzene (s)	15.771	95	167169	51.94	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.499	59	48578	219.17	ug/L	96
3) ethanol	6.905	45	99650	4368.90	ug/L	96
4) 1,4-dioxane	12.410	88	23077	1180.73	ug/L	96
9) chlorodifluoromethane	4.509	51	101582	40.64	ug/L	93
10) dichlorodifluoromethane	4.488	85	154927	41.50	ug/L	99
12) chloromethane	4.881	50	145996	42.24	ug/L	98
13) vinyl chloride	5.180	62	138836	44.42	ug/L	95
15) bromomethane	5.909	94	95994	44.00	ug/L	97
16) chloroethane	6.114	64	73438	51.97	ug/L	95
18) trichlorofluoromethane	6.680	101	219720	57.77	ug/L	96
20) ethyl ether	7.152	74	52479	44.13	ug/L	97
21) acrolein	7.377	56	172437	458.24	ug/L	100
22) 2-chloropropane	7.340	43	959665	230.11	ug/L	90
24) 1,1-dichloroethene	7.603	96	70282	34.14	ug/L	94
25) acetone	7.639	43	29287	49.00	ug/L	88
26) allyl chloride	8.195	76	46649	42.04	ug/L #	76
27) acetonitrile	8.101	40	60420	472.54	ug/L	95
28) iodomethane	7.891	142	161408	36.11	ug/L	92
29) iso-butyl alcohol	11.100	74	10560	423.57	ug/L #	31
30) carbon disulfide	8.038	76	242345	32.86	ug/L	97
31) methylene chloride	8.384	84	98648	41.75	ug/L	96
32) methyl acetate	8.190	74	14258	44.32	ug/L #	83
33) 1-chloropropane	8.457	42	173288	44.04	ug/L	98
34) methyl tert butyl ether	8.819	73	549156	96.54	ug/L	96
35) trans-1,2-dichloroethene	8.829	96	91831	39.77	ug/L	95
36) di-isopropyl ether	9.495	45	339269	49.20	ug/L	97
37) 2-butanone	10.203	72	10397	46.82	ug/L #	78
38) 1,1-dichloroethane	9.438	63	182867	47.56	ug/L	98
39) chloroprene	9.579	53	156568	50.94	ug/L	92
40) acrylonitrile	8.730	53	169094	233.95	ug/L	96
41) vinyl acetate	9.448	86	16810	44.61	ug/L #	62
42) ethyl tert-butyl ether	9.993	59	305511	50.52	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134562.D
Acq On : 17 Sep 2015 4:28 pm
Operator : BridgetK
Sample : jc3795-7ms
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 11:55:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	12398	48.73	ug/L		76
44) 2,2-dichloropropane	10.261	77	168934	49.49	ug/L		92
45) cis-1,2-dichloroethene	10.229	96	111637	43.63	ug/L		90
46) propionitrile	10.277	54	118327	455.17	ug/L		96
47) bromochloromethane	10.544	128	61111	47.48	ug/L		99
48) tetrahydrofuran	10.623	42	24649	44.59	ug/L		94
49) chloroform	10.617	83	199155	50.30	ug/L		96
50) t-butyl formate	10.701	59	69494	47.01	ug/L		92
53) freon 113	7.618	151	97788	53.60	ug/L		93
54) methacrylonitrile	10.486	41	57461	48.86	ug/L		94
55) 1,1,1-trichloroethane	10.916	97	182238	53.09	ug/L		98
56) Cyclohexane	11.016	84	125411	40.54	ug/L		95
62) n-butyl alcohol	11.828	56	106508	2667.66	ug/L		96
63) carbon tetrachloride	11.131	117	173726	59.96	ug/L		98
64) 1,1-dichloropropene	11.100	75	135081	52.08	ug/L		96
65) hexane	9.223	57	106161	39.37	ug/L		94
66) benzene	11.357	78	3363266	442.28	ug/L		99
67) 2,2,4-trimethylpentane	11.420	57	336730	53.09	ug/L		96
68) tert-amyl methyl ether	11.430	73	250658	52.47	ug/L		97
69) heptane	11.582	57	76519	57.61	ug/L		97
70) isopropyl acetate	11.304	43	163627	53.25	ug/L		95
71) 1,2-dichloroethane	11.346	62	177202	72.77	ug/L	#	56
72) trichloroethene	12.054	95	107879	52.00	ug/L		96
74) 2-nitropropane	12.762	41	27328	60.37	ug/L		96
76) methyl methacrylate	12.321	100	22918	51.48	ug/L	#	70
77) 1,2-dichloropropane	12.300	63	97494	50.91	ug/L		100
78) dibromomethane	12.431	93	64972	54.27	ug/L		97
79) methylcyclohexane	12.306	83	163746	53.25	ug/L		95
80) bromodichloromethane	12.563	83	156377	57.42	ug/L		99
81) cis-1,3-dichloropropene	13.003	75	160256	50.62	ug/L		91
83) 4-methyl-2-pentanone	13.113	58	33655	55.08	ug/L	#	68
84) toluene	13.370	92	230848	47.30	ug/L		99
85) 3-methyl-1-butanol	13.113	55	100959	1695.90	ug/L		95
86) trans-1,3-dichloropropene	13.527	75	147686	53.79	ug/L		91
87) ethyl methacrylate	13.548	69	106996	51.35	ug/L		92
88) 1,1,2-trichloroethane	13.726	83	72096	51.75	ug/L		99
89) 2-hexanone	13.910	58	25986	51.10	ug/L		99
91) n-butyl ether	14.686	57	378045	48.10	ug/L		94
92) tetrachloroethene	13.920	164	112214	53.04	ug/L		98
93) 1,3-dichloropropane	13.899	76	135842	49.40	ug/L		90
94) butyl acetate	13.989	56	48195	50.08	ug/L		95
95) 3,3-dimethyl-1-butanol	14.057	57	58524	484.69	ug/L		97
96) dibromochloromethane	14.141	129	131157	55.79	ug/L		98
97) 1,2-dibromoethane	14.282	107	91836	49.51	ug/L		98
98) chlorobenzene	14.733	112	270123	51.72	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	116489	54.91	ug/L		97
100) ethylbenzene	14.796	91	437082	51.75	ug/L		97
101) m,p-xylene	14.896	106	343157	102.46	ug/L		90
102) o-xylene	15.284	106	180453	51.19	ug/L		96
103) styrene	15.284	104	289387	51.14	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134562.D
Acq On : 17 Sep 2015 4:28 pm
Operator : BridgetK
Sample : jc3795-7ms
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 11:55:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

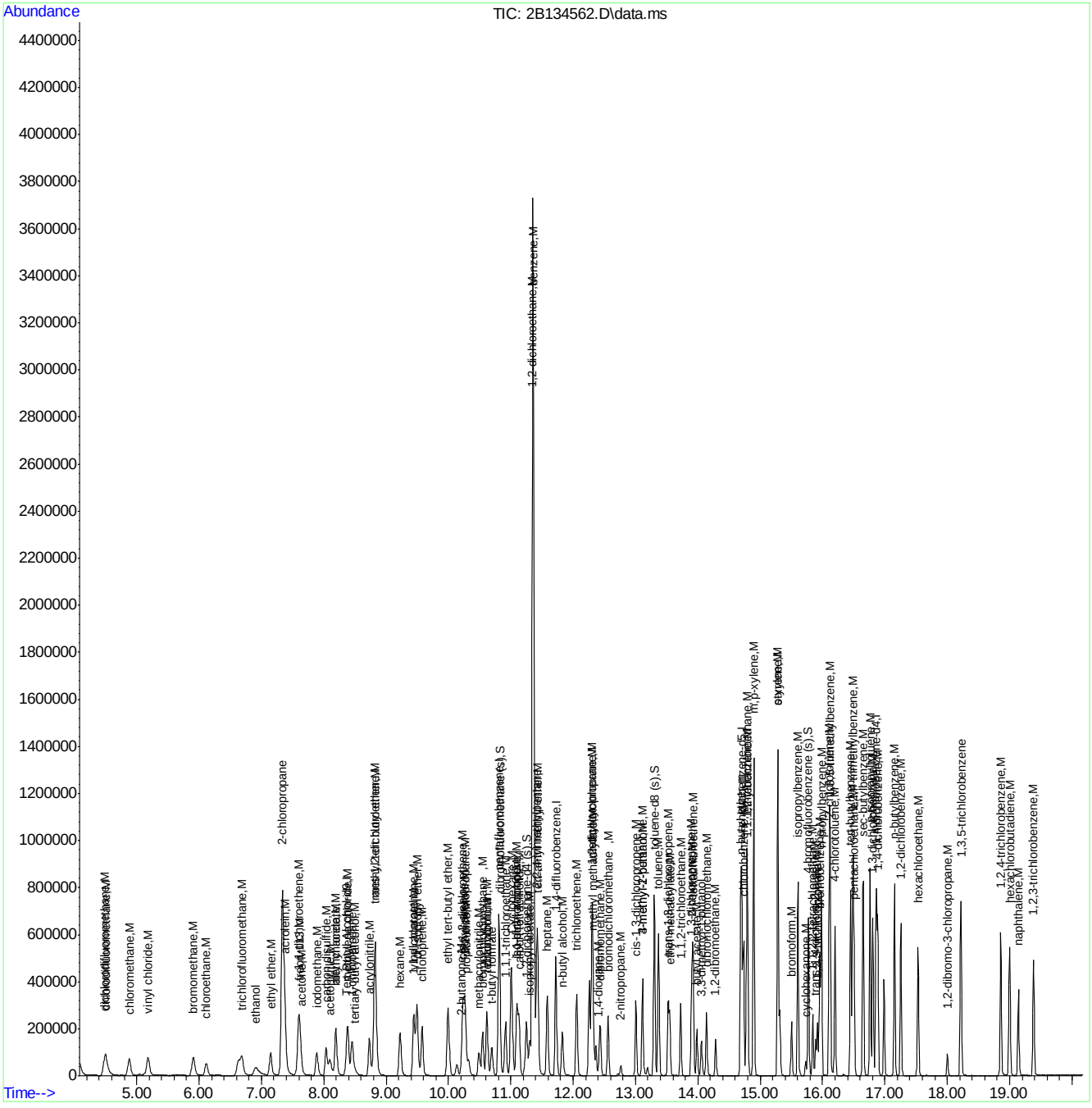
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) bromoform	15.504	173	98438	57.97	ug/L	96
107) isopropylbenzene	15.603	105	465163	53.62	ug/L	96
109) cyclohexanone	15.729	98	9776	154.48	ug/L	90
110) bromobenzene	15.955	156	141023	53.90	ug/L	94
111) 1,1,2,2-tetrachloroethane	15.845	83	104585	50.51	ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	27818	54.83	ug/L #	81
113) 1,2,3-trichloropropane	15.918	110	29599	55.01	ug/L	93
114) n-propylbenzene	15.981	91	519667	56.10	ug/L	96
115) 2-chlorotoluene	16.107	126	115489	51.78	ug/L	87
116) 4-chlorotoluene	16.196	91	316830	53.25	ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	389922	55.49	ug/L	95
118) tert-butylbenzene	16.448	119	346473	54.79	ug/L	94
119) pentachloroethane	16.505	167	100065	57.99	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	403751	58.87	ug/L	96
121) sec-butylbenzene	16.652	105	499156	53.47	ug/L	98
122) 1,3-dichlorobenzene	16.804	146	257327	52.65	ug/L	96
123) p-isopropyltoluene	16.762	119	451582	55.40	ug/L	96
124) 1,4-dichlorobenzene	16.883	146	251903	52.40	ug/L	98
125) 1,2-dichlorobenzene	17.255	146	256503	54.87	ug/L	97
126) n-butylbenzene	17.155	92	217472	55.14	ug/L	98
127) 1,2-dibromo-3-chloropr...	18.000	157	26140	51.31	ug/L	90
128) 1,3,5-trichlorobenzene	18.220	180	253114	56.41	ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	199653	53.92	ug/L	99
130) hexachlorobutadiene	19.001	225	129478	56.84	ug/L	98
131) naphthalene	19.143	128	276434	47.97	ug/L	98
132) 1,2,3-trichlorobenzene	19.384	180	159821	52.17	ug/L	98
133) hexachloroethane	17.533	201	108016	61.55	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134562.D
Acq On : 17 Sep 2015 4:28 pm
Operator : BridgetK
Sample : jc3795-7ms
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 11:55:20 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134563.D
Acq On : 17 Sep 2015 4:56 pm
Operator : BridgetK
Sample : jc3795-7msd
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 11:58:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.368	65	94838	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	418280	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	404936	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	347258	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	182739	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	138485	49.91	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 99.82%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	163224	57.16	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 114.32%						
82) toluene-d8 (s)	13.302	98	454695	52.73	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 105.46%						
108) 4-bromofluorobenzene (s)	15.771	95	162998	53.14	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 106.28%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	49787	225.19	ug/L	89
3) ethanol	6.911	45	100782	4429.62	ug/L	99
4) 1,4-dioxane	12.410	88	23864	1224.06	ug/L	95
9) chlorodifluoromethane	4.504	51	104298	42.59	ug/L	94
10) dichlorodifluoromethane	4.483	85	164581	45.01	ug/L	96
12) chloromethane	4.881	50	146052	43.14	ug/L	97
13) vinyl chloride	5.186	62	142135	46.42	ug/L	95
15) bromomethane	5.904	94	97150	45.46	ug/L	96
16) chloroethane	6.114	64	73688	53.23	ug/L	96
18) trichlorofluoromethane	6.680	101	218088	58.53	ug/L	99
20) ethyl ether	7.146	74	51992	44.63	ug/L	94
21) acrolein	7.377	56	168600	457.37	ug/L	99
22) 2-chloropropane	7.340	43	930846	227.85	ug/L	89
24) 1,1-dichloroethene	7.592	96	69793	34.60	ug/L	95
25) acetone	7.634	43	29711	50.75	ug/L	95
26) allyl chloride	8.195	76	47610	43.80	ug/L #	81
27) acetonitrile	8.095	40	59816	477.55	ug/L	90
28) iodomethane	7.886	142	163009	37.23	ug/L	93
29) iso-butyl alcohol	11.100	74	10447	427.75	ug/L #	34
30) carbon disulfide	8.038	76	239173	33.10	ug/L	97
31) methylene chloride	8.384	84	94885	40.99	ug/L	96
32) methyl acetate	8.195	74	13839	43.92	ug/L	95
33) 1-chloropropane	8.452	42	170343	44.19	ug/L	96
34) methyl tert butyl ether	8.814	73	546115	98.00	ug/L	98
35) trans-1,2-dichloroethene	8.829	96	90299	39.92	ug/L	95
36) di-isopropyl ether	9.490	45	335304	49.63	ug/L	96
37) 2-butanone	10.203	72	10172	46.76	ug/L	92
38) 1,1-dichloroethane	9.438	63	177937	47.24	ug/L	96
39) chloroprene	9.579	53	156844	52.10	ug/L	92
40) acrylonitrile	8.730	53	167393	236.42	ug/L	97
41) vinyl acetate	9.453	86	17416	47.18	ug/L #	66
42) ethyl tert-butyl ether	9.993	59	306998	51.83	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134563.D
Acq On : 17 Sep 2015 4:56 pm
Operator : BridgetK
Sample : jc3795-7msd
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 11:58:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	13302	53.37	ug/L		72
44) 2,2-dichloropropane	10.261	77	168335	50.34	ug/L		92
45) cis-1,2-dichloroethene	10.229	96	108915	43.45	ug/L		88
46) propionitrile	10.277	54	118293	464.51	ug/L		99
47) bromochloromethane	10.549	128	60296	47.82	ug/L		99
48) tetrahydrofuran	10.623	42	28774	53.13	ug/L		97
49) chloroform	10.617	83	197841	51.01	ug/L		98
50) t-butyl formate	10.696	59	67439	46.57	ug/L		97
53) freon 113	7.613	151	96432	53.95	ug/L		99
54) methacrylonitrile	10.492	41	56326	48.89	ug/L		94
55) 1,1,1-trichloroethane	10.916	97	180311	53.62	ug/L		98
56) Cyclohexane	11.016	84	123005	40.59	ug/L		96
62) n-butyl alcohol	11.828	56	108989	2814.31	ug/L		96
63) carbon tetrachloride	11.131	117	170234	60.57	ug/L		98
64) 1,1-dichloropropene	11.094	75	134043	53.28	ug/L		96
65) hexane	9.223	57	105289	40.25	ug/L		96
66) benzene	11.357	78	3281813	444.93	ug/L		99
67) 2,2,4-trimethylpentane	11.425	57	326407	53.06	ug/L		93
68) tert-amyl methyl ether	11.425	73	249301	53.80	ug/L		97
69) heptane	11.582	57	75941	58.94	ug/L		98
70) isopropyl acetate	11.304	43	162565	54.54	ug/L		95
71) 1,2-dichloroethane	11.346	62	173996	73.67	ug/L		59
72) trichloroethene	12.054	95	106849	53.10	ug/L		97
74) 2-nitropropane	12.762	41	27394	62.39	ug/L		91
76) methyl methacrylate	12.321	100	22858	52.94	ug/L	#	75
77) 1,2-dichloropropane	12.300	63	95246	51.27	ug/L		96
78) dibromomethane	12.431	93	63643	54.81	ug/L		98
79) methylcyclohexane	12.306	83	160998	53.98	ug/L		95
80) bromodichloromethane	12.563	83	154851	58.62	ug/L		99
81) cis-1,3-dichloropropene	13.008	75	160408	52.24	ug/L		92
83) 4-methyl-2-pentanone	13.113	58	33058	55.78	ug/L	#	63
84) toluene	13.370	92	227830	48.13	ug/L		98
85) 3-methyl-1-butanol	13.113	55	100329	1737.49	ug/L		96
86) trans-1,3-dichloropropene	13.527	75	145224	54.53	ug/L		92
87) ethyl methacrylate	13.548	69	106826	52.86	ug/L		90
88) 1,1,2-trichloroethane	13.721	83	70695	52.32	ug/L		99
89) 2-hexanone	13.910	58	25779	52.26	ug/L		98
91) n-butyl ether	14.686	57	374108	48.36	ug/L		94
92) tetrachloroethene	13.920	164	111958	53.76	ug/L		98
93) 1,3-dichloropropane	13.899	76	132834	49.07	ug/L		90
94) butyl acetate	13.983	56	45897	48.45	ug/L		88
95) 3,3-dimethyl-1-butanol	14.057	57	58648	493.46	ug/L		93
96) dibromochloromethane	14.141	129	128647	55.59	ug/L		98
97) 1,2-dibromoethane	14.287	107	90112	49.35	ug/L		98
98) chlorobenzene	14.733	112	266931	51.93	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	115837	55.48	ug/L		97
100) ethylbenzene	14.796	91	425771	51.22	ug/L		99
101) m,p-xylene	14.896	106	335359	101.73	ug/L		92
102) o-xylene	15.284	106	177552	51.17	ug/L		93
103) styrene	15.284	104	283481	50.90	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134563.D
Acq On : 17 Sep 2015 4:56 pm
Operator : BridgetK
Sample : jc3795-7msd
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 11:58:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
105) bromoform	15.504	173	99117	59.30 ug/L	98
107) isopropylbenzene	15.603	105	459058	55.53 ug/L	97
109) cyclohexanone	15.729	98	9927	164.61 ug/L #	75
110) bromobenzene	15.955	156	139682	56.02 ug/L	97
111) 1,1,2,2-tetrachloroethane	15.845	83	104065	52.74 ug/L	98
112) trans-1,4-dichloro-2-b...	15.887	53	27163	56.18 ug/L	84
113) 1,2,3-trichloropropane	15.918	110	28961	56.48 ug/L	94
114) n-propylbenzene	15.981	91	514827	58.32 ug/L	98
115) 2-chlorotoluene	16.107	126	112741	53.04 ug/L	93
116) 4-chlorotoluene	16.196	91	316533	55.83 ug/L	95
117) 1,3,5-trimethylbenzene	16.123	105	381687	57.00 ug/L	95
118) tert-butylbenzene	16.448	119	345624	57.35 ug/L	94
119) pentachloroethane	16.505	167	100090	60.86 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	398715	61.00 ug/L	96
121) sec-butylbenzene	16.652	105	492487	55.36 ug/L	98
122) 1,3-dichlorobenzene	16.804	146	252987	54.32 ug/L	97
123) p-isopropyltoluene	16.762	119	444821	57.26 ug/L	97
124) 1,4-dichlorobenzene	16.883	146	247784	54.09 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	254985	57.23 ug/L	96
126) n-butylbenzene	17.155	92	213425	56.78 ug/L	96
127) 1,2-dibromo-3-chloropr...	18.005	157	26638	54.87 ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	249224	58.29 ug/L	98
129) 1,2,4-trichlorobenzene	18.859	180	204021	57.82 ug/L	98
130) hexachlorobutadiene	19.001	225	131978	60.79 ug/L	99
131) naphthalene	19.143	128	281027	51.17 ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	160848	55.10 ug/L	99
133) hexachloroethane	17.533	201	106595	63.73 ug/L	97

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

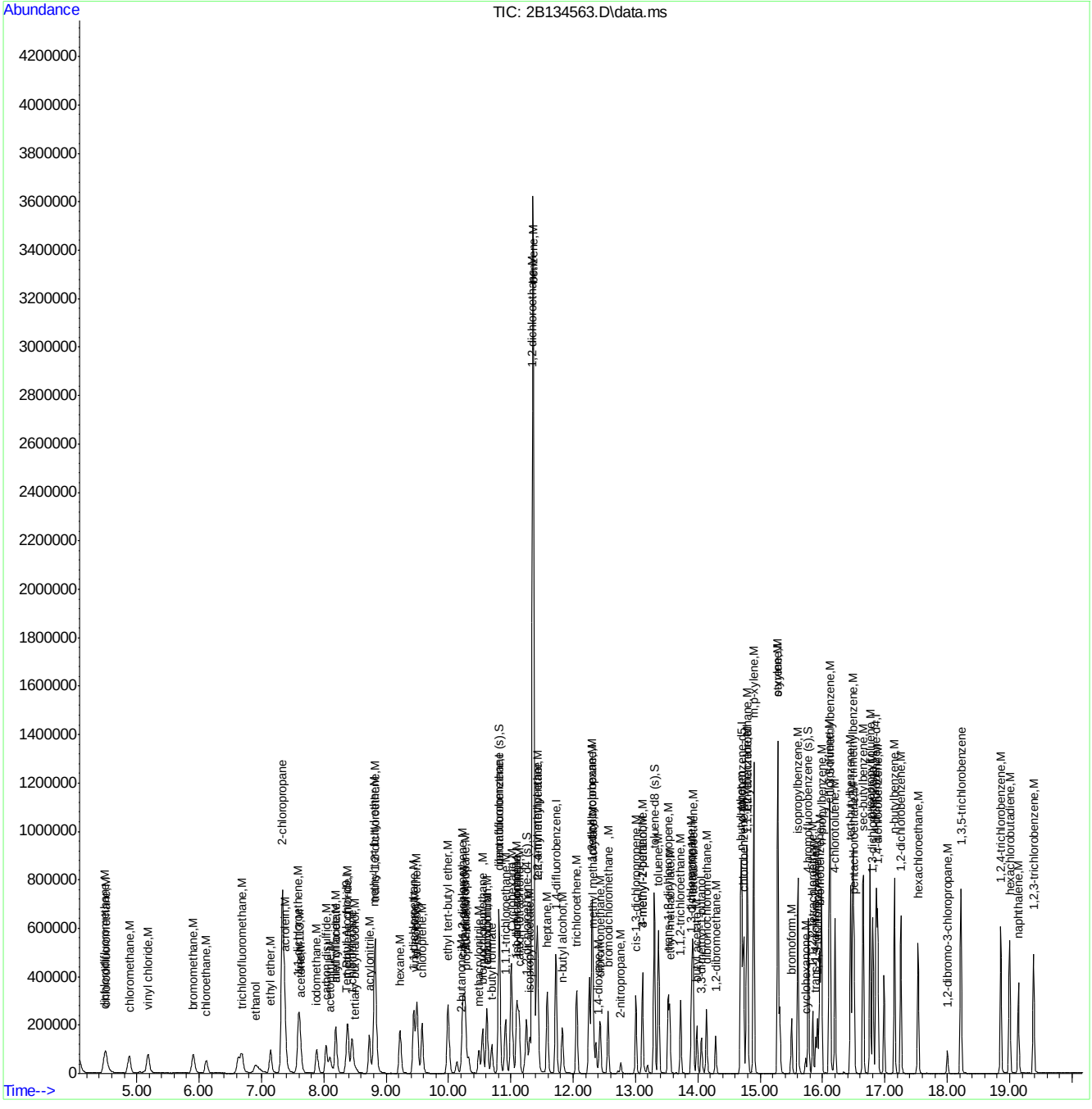
7.4.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996-5997\
Data File : 2B134563.D
Acq On : 17 Sep 2015 4:56 pm
Operator : BridgetK
Sample : jc3795-7msd
Misc : ms91224,v2B5996,w,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 11:58:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147897.D
Acq On : 9 Sep 2015 4:59 pm
Operator : BridgetK
Sample : jc3254-7dup
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 10 09:55:28 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.580	65	84154	500.00	ug/L	0.00
5) pentafluorobenzene	10.307	168	370249	50.00	ug/L	0.01
50) 1,4-difluorobenzene	11.465	114	410596	50.00	ug/L	0.02
78) chlorobenzene-d5	15.665	117	399684	50.00	ug/L	0.01
93) 1,4-dichlorobenzene-d4	18.423	152	223275	50.00	ug/L	0.01

System Monitoring Compounds

42) dibromofluoromethane (s)	10.322	113	139122	53.52	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 107.04%			
43) 1,2-dichloroethane-d4 (s)	10.862	65	143538	53.32	ug/L	0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.64%			
70) toluene-d8 (s)	13.657	98	498190	55.77	ug/L	0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 111.54%			
95) 4-bromofluorobenzene (s)	17.149	95	201851	57.06	ug/L	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.12%			

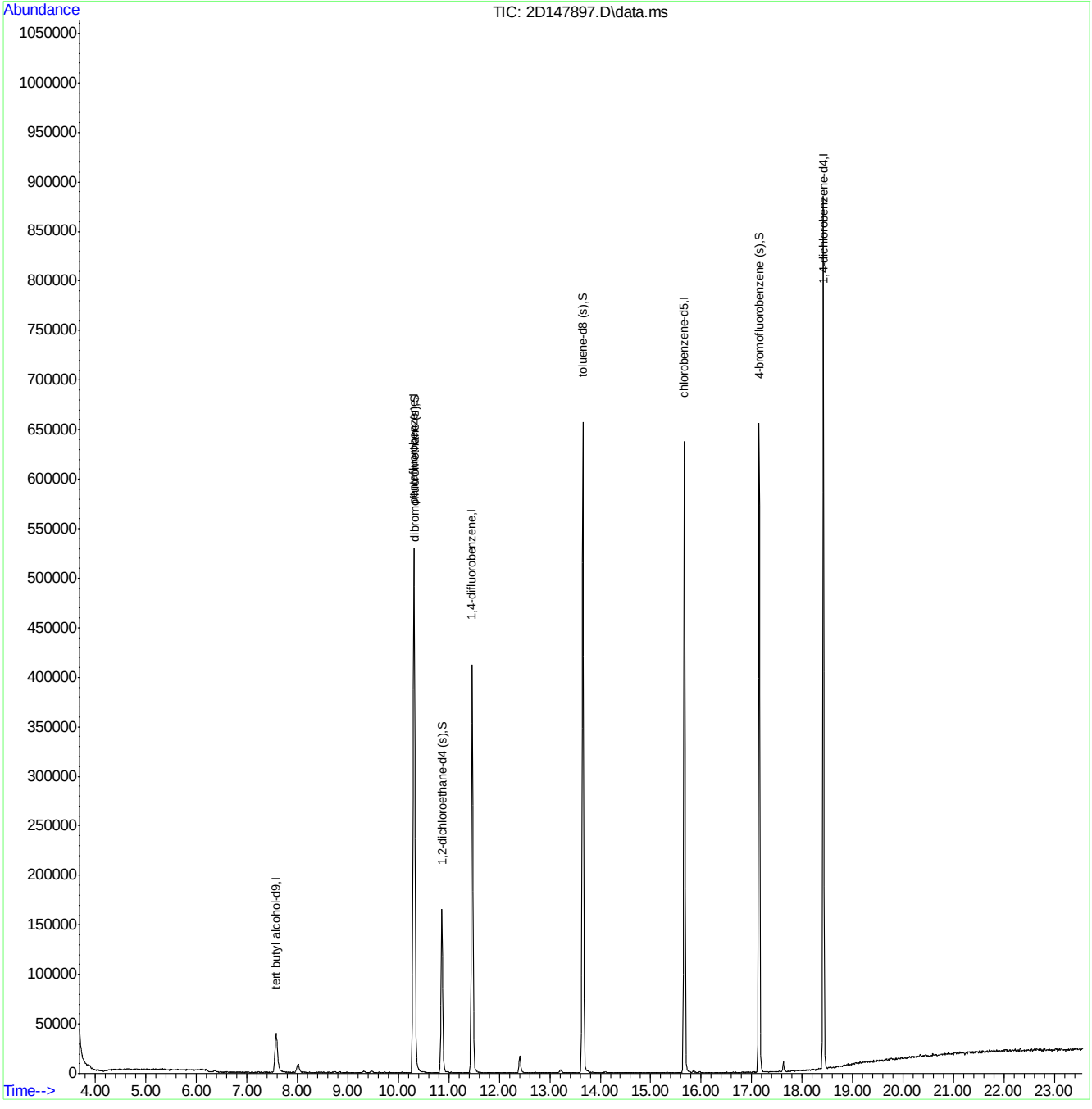
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147897.D
Acq On : 9 Sep 2015 4:59 pm
Operator : BridgetK
Sample : jc3254-7dup
Misc : ms90889,v2d6208,w,,,,1
ALS Vial : 17 Sample Multiplier: 1

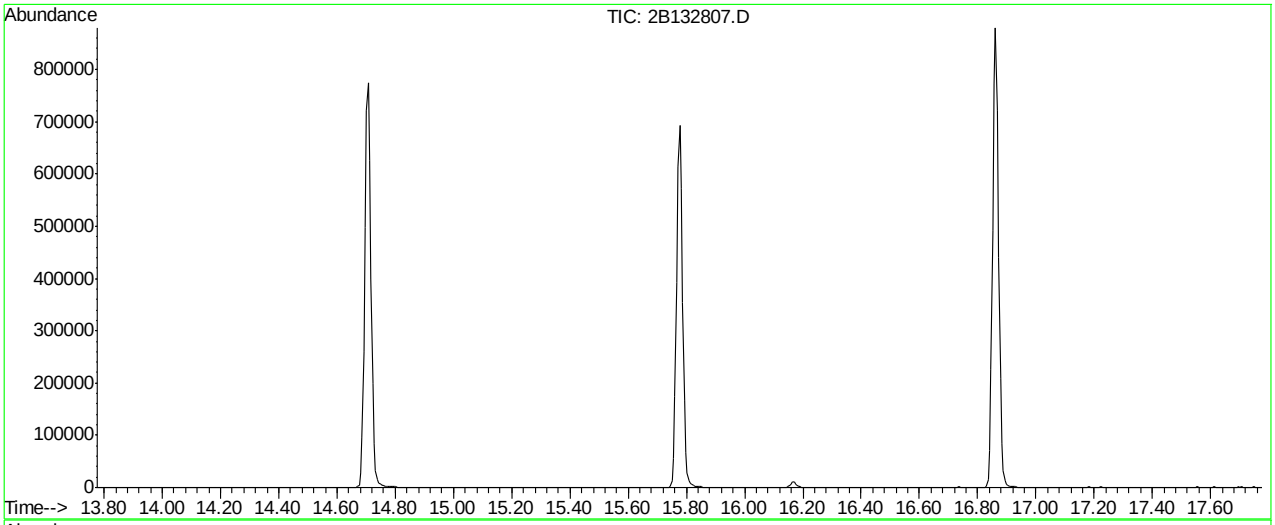
Quant Time: Sep 10 09:55:28 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

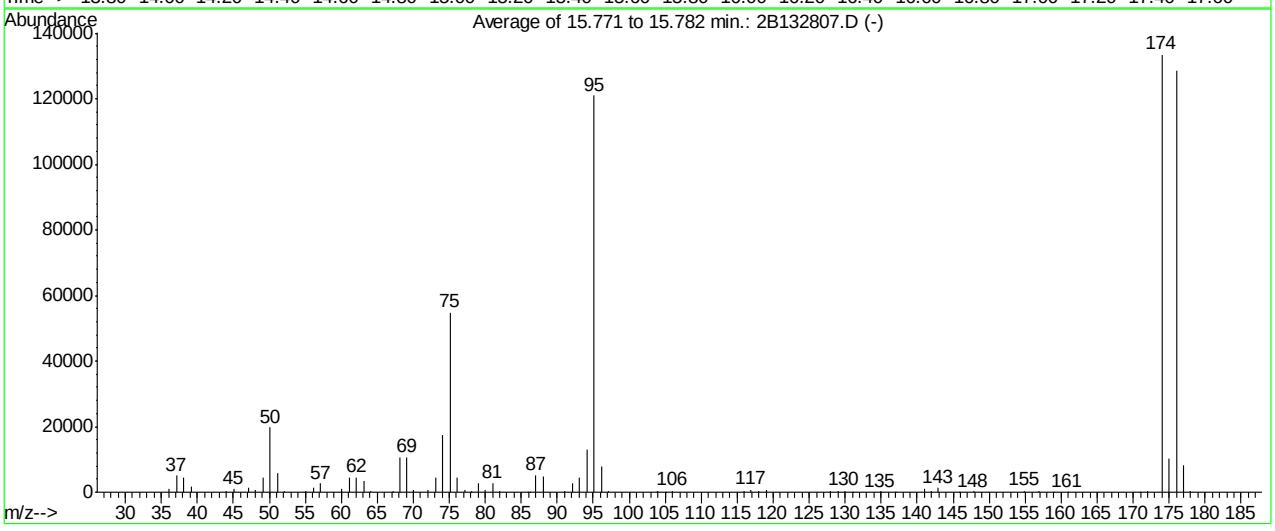


SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\2B132807.D Vial: 3
Acq On : 24 Jul 2015 10:16 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms88284,v2B5926,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2230, 2231, 2232; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	19815	PASS
75	95	30	60	45.2	54704	PASS
95	95	100	100	100.0	120965	PASS
96	95	5	9	6.6	8034	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	110.4	133496	PASS
175	174	5	9	7.6	10135	PASS
176	174	95	101	96.2	128448	PASS
177	176	5	9	6.5	8314	PASS

2B132807.D M2B5926.M Wed Jul 29 16:29:24 2015 MS2B

Average of 15.771 to 15.782 min.: 2B132807.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	941	52.15	291	69.10	10775	81.00	2795
37.10	5077	55.10	257	70.05	744	82.00	526
38.10	4364	56.10	1402	72.05	617	85.95	107
39.10	1673	57.10	2673	73.10	4400	86.20	57
44.05	397	60.10	900	74.10	17572	87.00	5284
45.05	915	61.10	4478	75.10	54704	88.00	4875
47.15	1312	62.10	4608	76.10	4493	91.00	400
48.10	613	63.10	3395	77.10	575	92.05	2853
49.10	4528	64.05	341	78.05	508	93.10	4484
50.10	19815	67.15	269	79.00	2588	94.10	12860
51.10	5967	68.10	10508	80.00	725	95.10	120965

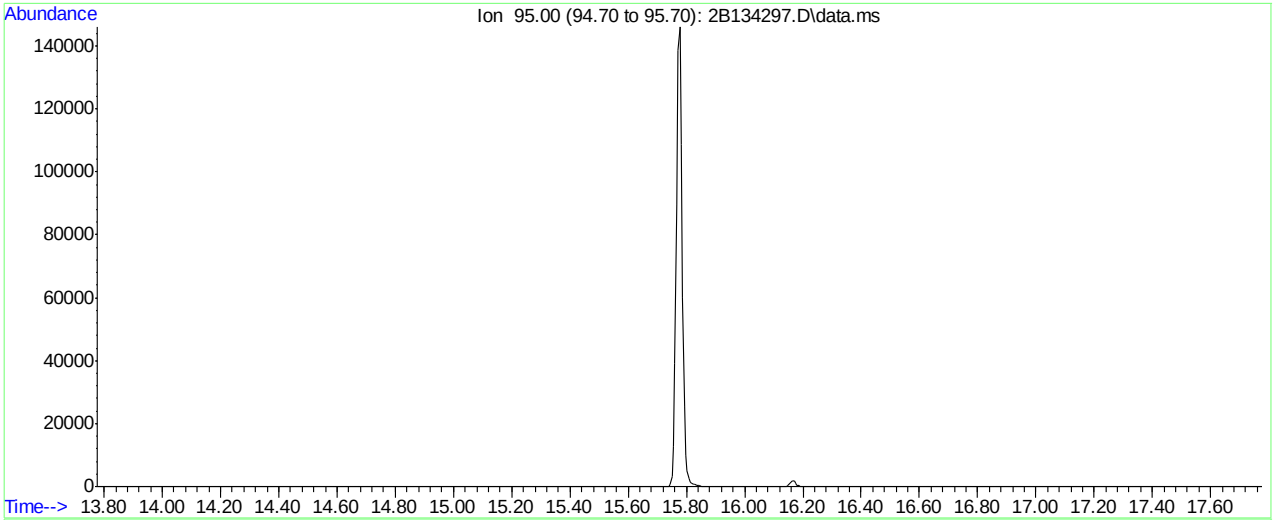
Average of 15.771 to 15.782 min.: 2B132807.D
bfb
Modified:subtracted

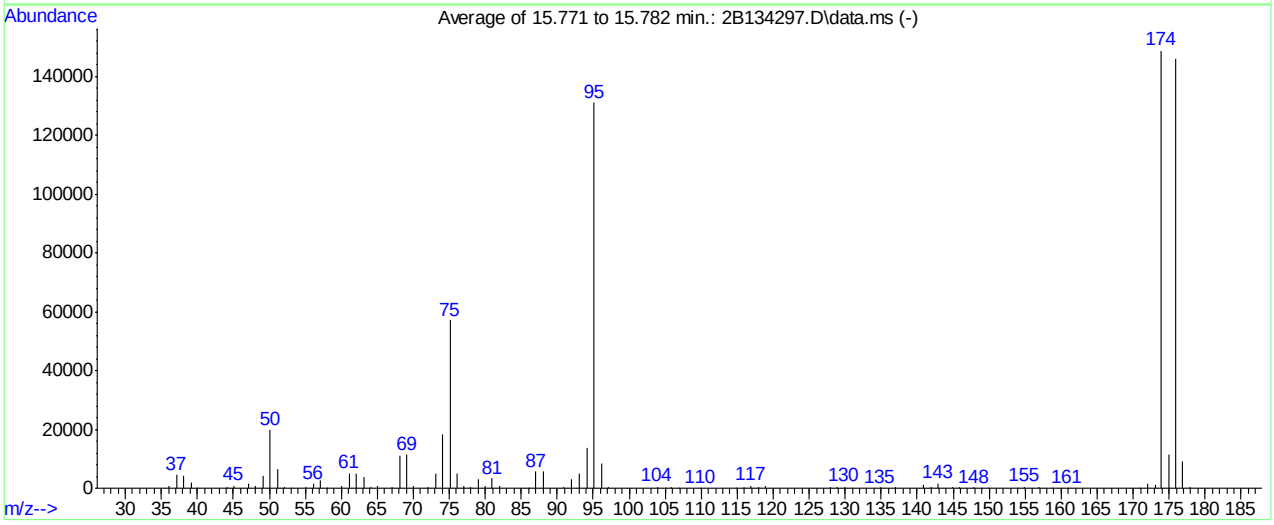
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.10	8034	129.00	196	154.95	356		
97.10	241	129.90	511	156.85	235		
103.80	125	131.00	136	158.95	110		
103.95	263	134.90	223	160.95	135		
105.00	53	136.95	138	170.90	50		
106.00	431	140.95	1146	172.00	200		
115.95	461	141.90	190	174.00	133496		
116.90	763	142.95	1229	175.00	10135		
117.95	445	145.85	136	176.00	128448		
119.00	624	147.85	236	177.00	8314		
127.95	403	149.95	127	177.90	231		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5985\2B134297.D Vial: 2
Acq On : 10 Sep 2015 9:03 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms90772,v2B5985,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2230, 2231, 2232; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	19711	PASS
75	95	30	60	43.6	57104	PASS
95	95	100	100	100.0	131066	PASS
96	95	5	9	6.4	8384	PASS
173	174	0.00	2	0.8	1133	PASS
174	95	50	120	113.5	148821	PASS
175	174	5	9	7.6	11363	PASS
176	174	95	101	98.1	145941	PASS
177	176	5	9	6.3	9225	PASS

2B134297.D M2B5926.M Thu Sep 10 14:33:52 2015 ACC-VOA-CLN-05A

Average of 15.771 to 15.782 min.: 2B134297.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	876	51.10	6365	64.10	561	77.00	765
37.10	4525	52.15	282	65.05	628	77.95	441
38.10	4342	53.10	53	67.00	344	79.00	3133
39.10	1860	55.05	296	68.10	11178	80.00	959
40.00	52	56.10	1518	69.10	11322	80.95	3316
44.10	516	57.10	2769	70.05	783	81.95	826
45.05	955	58.05	120	72.05	520	86.00	197
47.10	1410	60.10	956	73.10	4946	87.00	5691
48.00	627	61.10	5070	74.10	18387	88.00	5578
49.10	4151	62.10	4920	75.10	57104	90.95	416
50.10	19711	63.10	3951	76.10	4999	92.00	3219

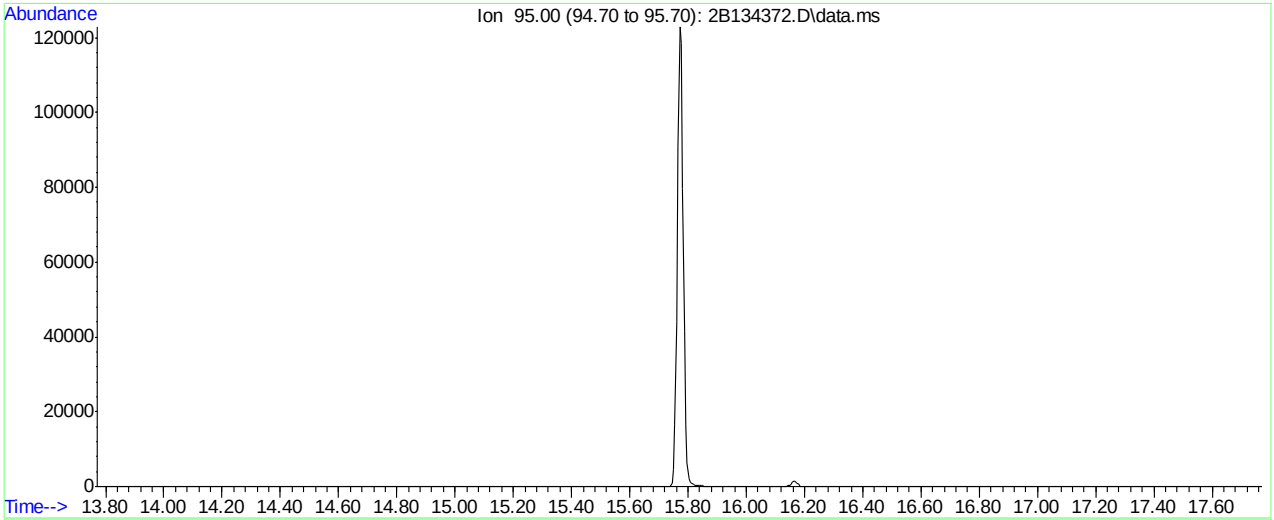
Average of 15.771 to 15.782 min.: 2B134297.D\data.ms
bfb
Modified:subtracted

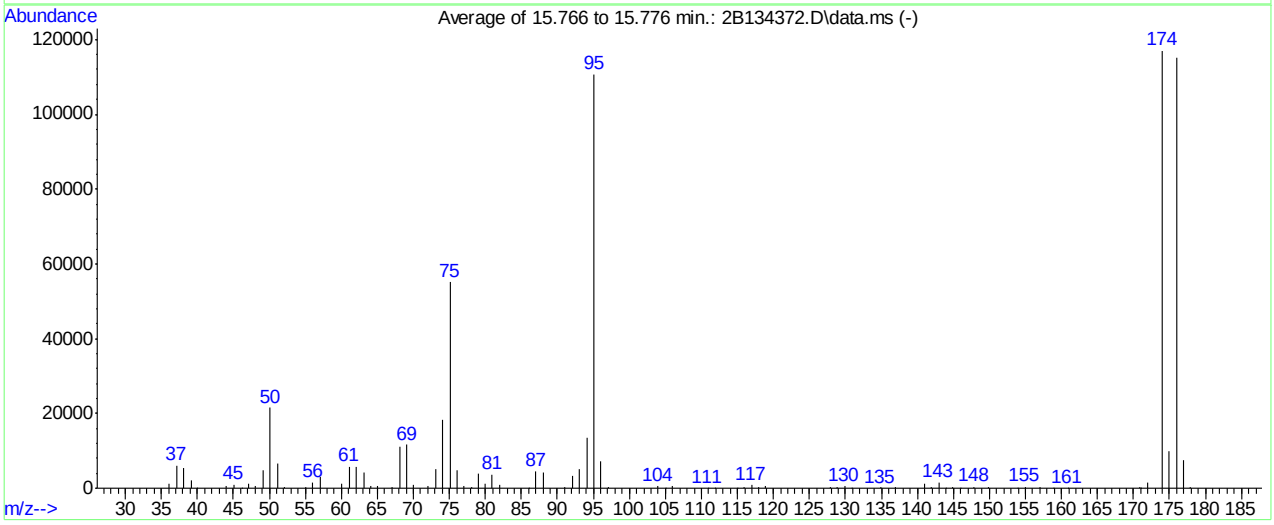
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	4984	115.90	438	141.95	208	160.90	51
94.10	13839	116.90	833	142.95	1595	170.95	138
95.10	131066	117.90	467	144.95	317	171.95	1588
96.10	8384	118.95	717	145.85	236	173.05	1133
97.10	276	127.95	468	147.90	343	173.95	148821
103.95	498	128.90	230	148.90	60	175.00	11363
105.00	193	129.95	553	149.90	69	175.95	145941
105.90	447	130.95	190	153.90	58	176.90	9225
106.85	112	134.95	244	154.95	391	177.90	214
109.90	50	136.95	216	156.95	321		
114.90	52	140.90	1203	158.85	112		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5987-5988\2B134372.D Vial: 26
Acq On : 11 Sep 2015 9:59 pm Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms90954,v2B5988,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	21586	PASS
75	95	30	60	49.8	55122	PASS
95	95	100	100	100.0	110653	PASS
96	95	5	9	6.6	7322	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	105.8	117080	PASS
175	174	5	9	8.4	9864	PASS
176	174	95	101	98.4	115261	PASS
177	176	5	9	6.6	7550	PASS

2B134372.D M2B5926.M Thu Sep 17 10:42:55 2015 ACC-VOA-CLN-05A

Average of 15.766 to 15.776 min.: 2B134372.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1112	50.10	21586	65.05	656	78.05	409
37.10	6020	51.10	6725	67.00	292	78.95	3780
38.10	5302	52.15	292	68.10	11038	80.00	1101
39.10	2200	55.05	365	69.10	11580	80.95	3755
40.00	37	56.05	1616	70.05	1025	82.00	903
44.05	500	57.10	2956	72.05	618	86.00	116
45.05	1013	60.10	1071	73.10	4968	87.00	4561
46.10	58	61.10	5733	74.10	18189	88.00	4169
47.05	1276	62.10	5665	75.10	55122	91.00	439
48.05	737	63.10	4237	76.10	4731	92.05	3160
49.10	4851	64.05	473	77.05	704	93.05	5083

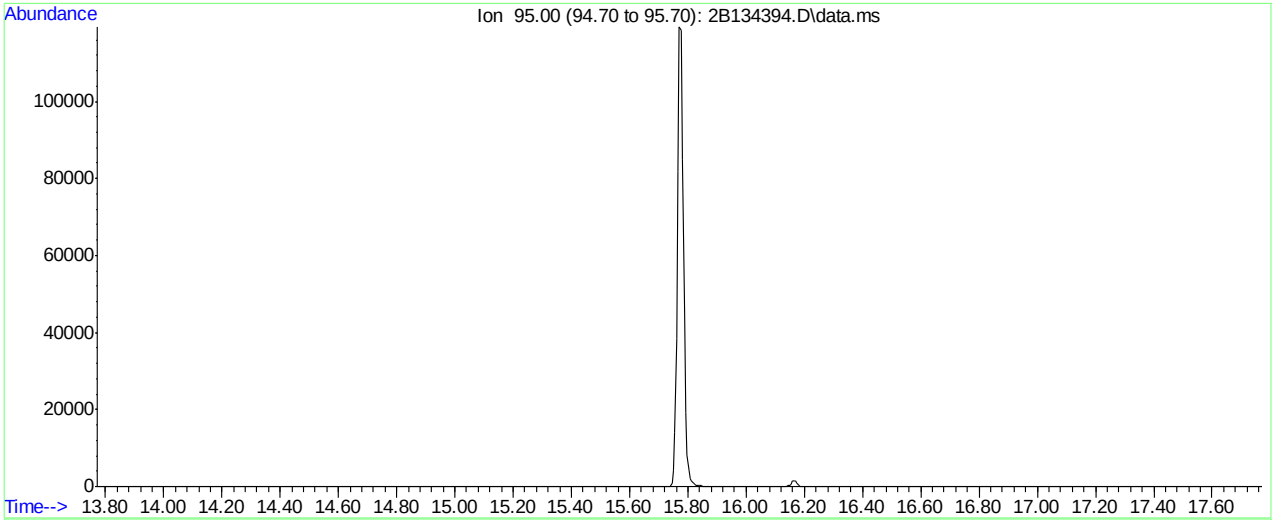
Average of 15.766 to 15.776 min.: 2B134372.D\data.ms
bfb
Modified:subtracted

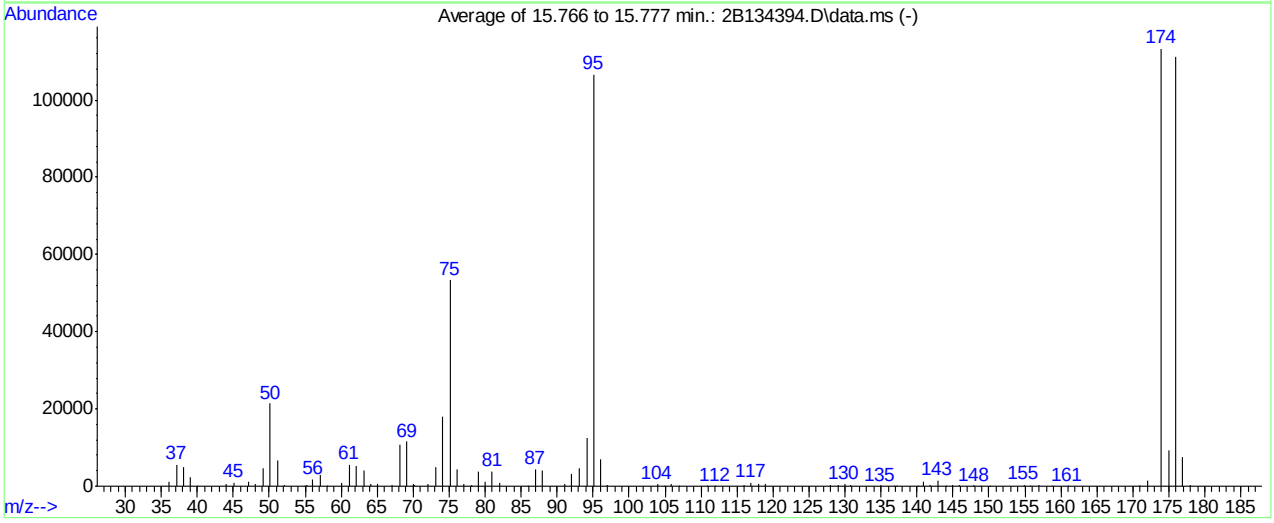
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	13458	117.00	826	142.95	1631	170.85	195
95.10	110653	117.95	441	143.90	51	171.10	60
96.05	7322	118.95	734	144.95	282	171.95	1361
97.05	262	127.95	427	145.90	134	174.00	117080
103.95	536	128.90	224	147.85	309	175.00	9864
104.95	137	129.90	539	149.90	204	175.95	115261
105.95	527	130.90	80	153.90	51	176.95	7550
110.90	118	134.90	268	154.95	349	177.85	246
111.90	53	136.95	204	156.95	200		
115.00	109	141.00	1357	158.90	59		
115.95	447	141.95	183	160.90	120		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5989\2B134394.D Vial: 1
Acq On : 12 Sep 2015 8:49 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms90889,v2B5989,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	21402	PASS
75	95	30	60	50.0	53304	PASS
95	95	100	100	100.0	106557	PASS
96	95	5	9	6.6	7047	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	106.4	113349	PASS
175	174	5	9	8.3	9377	PASS
176	174	95	101	98.0	111106	PASS
177	176	5	9	6.9	7656	PASS

2B134394.D M2B5926.M Thu Sep 17 11:57:04 2015 ACC-VOA-CLN-05A

Average of 15.766 to 15.777 min.: 2B134394.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1084	51.10	6678	64.05	614	76.10	4495
37.10	5627	52.10	268	65.05	709	77.05	514
38.10	4983	54.90	62	67.05	345	78.05	432
39.10	2246	55.15	228	68.10	10890	79.00	3784
40.00	10	56.05	1762	69.10	11519	80.00	1110
44.00	657	57.10	2886	70.00	530	81.00	3835
45.05	930	58.10	57	70.20	289	81.95	773
47.05	1081	60.05	1021	72.05	584	85.90	78
48.05	718	61.10	5529	73.10	4988	87.00	4418
49.10	4629	62.10	5222	74.10	18032	88.00	4213
50.10	21402	63.10	4027	75.10	53304	91.00	522

Average of 15.766 to 15.777 min.: 2B134394.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	3198	112.00	62	137.10	67	154.90	316
93.05	4766	115.90	424	140.10	61	155.70	52
94.10	12534	116.95	888	140.95	1292	156.95	205
95.10	106557	117.95	552	141.85	166	158.85	118
96.05	7047	118.95	683	142.90	1578	161.00	66
96.95	204	127.90	413	144.00	55	170.80	81
103.95	509	129.00	172	144.90	442	171.00	138
104.95	123	129.95	462	145.95	162	172.00	1475
105.90	472	130.85	173	147.95	288	173.95	113349
106.90	54	134.95	270	148.80	56	174.95	9377
110.90	51	136.85	137	150.10	54	176.00	111106

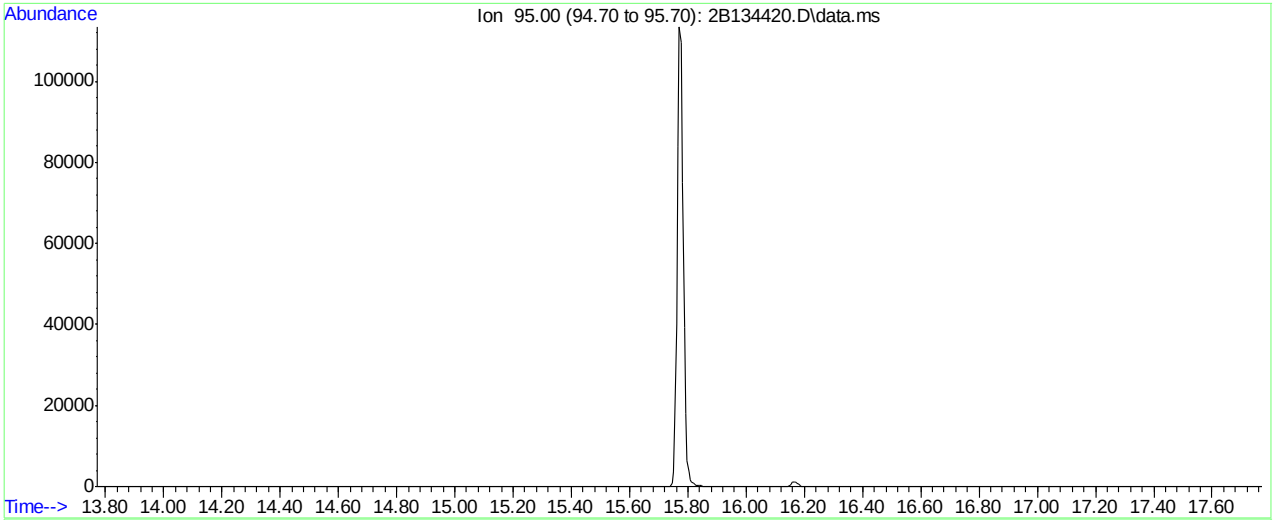
Average of 15.766 to 15.777 min.: 2B134394.D\data.ms
bfb
Modified:subtracted

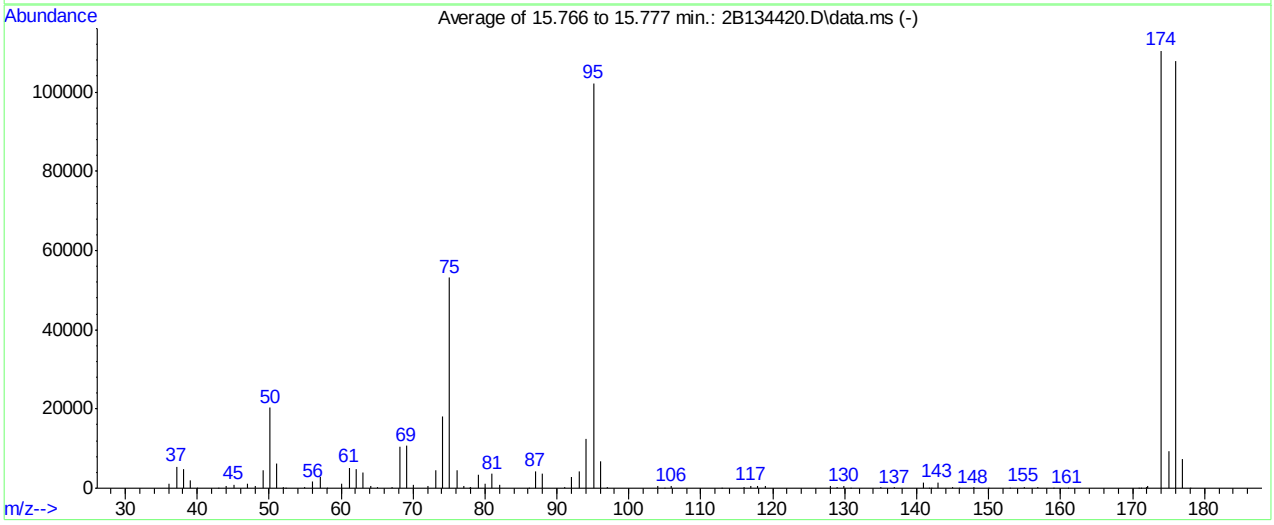
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	7656						
177.95	232						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b...989ms-5990\2B134420.D Vial: 2
Acq On : 14 Sep 2015 8:55 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms90983,v2B5990,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	20341	PASS
75	95	30	60	52.0	53170	PASS
95	95	100	100	100.0	102250	PASS
96	95	5	9	6.7	6892	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	108.1	110485	PASS
175	174	5	9	8.4	9241	PASS
176	174	95	101	97.6	107853	PASS
177	176	5	9	6.8	7362	PASS

2B134420.D M2B5926.M Mon Sep 14 16:20:11 2015 ACC-VOA-CLN-05A

Average of 15.766 to 15.777 min.: 2B134420.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1144	50.10	20341	63.10	3993	76.10	4655
37.10	5401	51.10	6163	64.05	454	77.00	580
38.10	4688	52.00	179	65.05	374	77.90	122
39.10	1855	52.20	67	67.10	328	78.05	376
40.00	147	55.00	308	68.10	10469	79.00	3467
43.00	55	56.05	1656	69.10	10695	79.95	1048
44.05	585	57.10	2835	70.10	784	81.00	3633
45.10	872	58.00	55	72.05	531	82.00	845
47.05	1061	60.05	1110	73.10	4641	86.10	69
48.00	631	61.10	5216	74.10	18018	87.00	4338
49.10	4620	62.10	4900	75.10	53170	88.00	3646

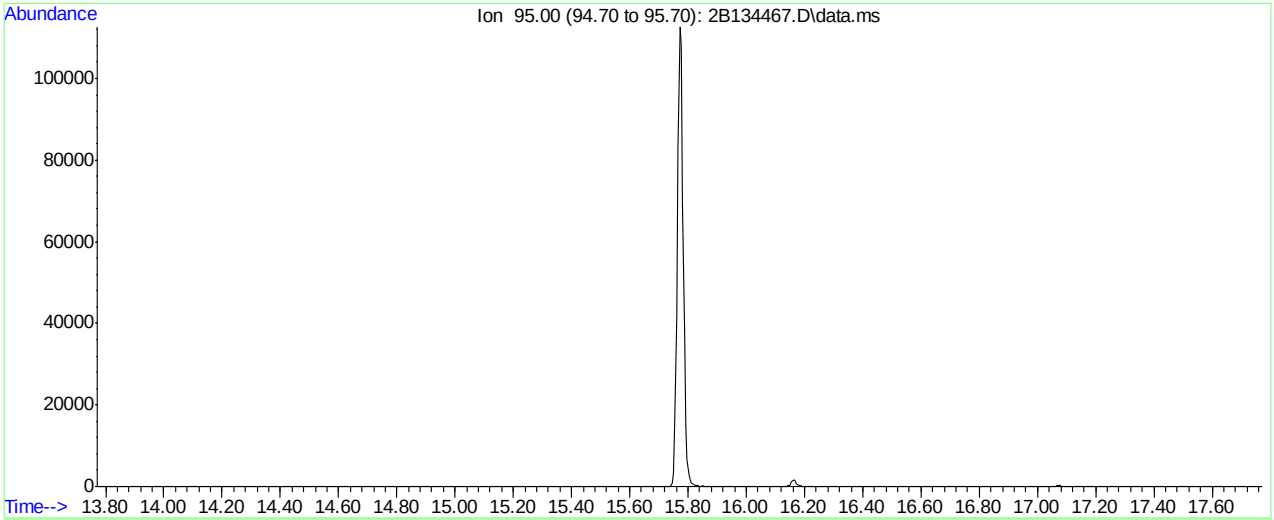
Average of 15.766 to 15.777 min.: 2B134420.D\data.ms
bfb
Modified:subtracted

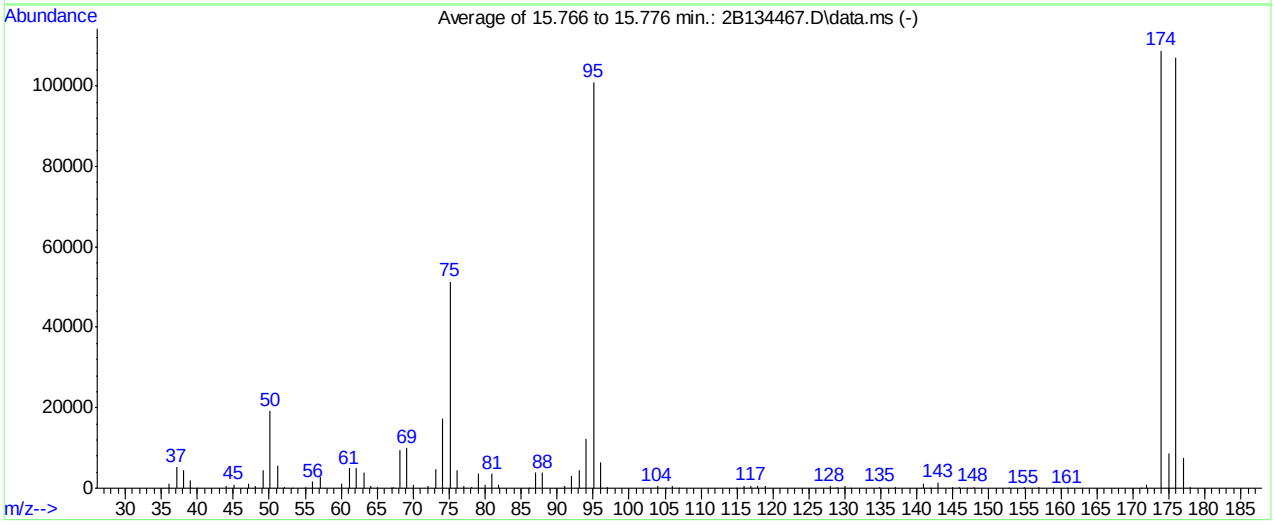
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.00	418	115.95	422	141.70	83	161.00	55
92.00	2944	116.95	705	142.00	66	170.90	65
93.05	4337	117.95	479	142.95	1534	171.20	74
94.10	12451	118.95	683	145.00	283	171.90	404
95.10	102250	127.95	486	145.85	102	172.05	602
96.10	6892	128.95	248	147.90	272	174.00	110485
97.05	165	129.90	531	149.90	86	175.00	9241
103.95	446	130.80	58	152.90	51	176.00	107853
104.95	146	135.00	171	154.90	338	176.95	7362
105.95	530	136.90	257	156.80	155	178.00	122
112.90	68	140.95	1369	158.95	145		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5992\2B134467.D Vial: 1
Acq On : 15 Sep 2015 8:23 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms91079,v2B5992,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	19197	PASS
75	95	30	60	50.9	51349	PASS
95	95	100	100	100.0	100941	PASS
96	95	5	9	6.4	6462	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	107.8	108818	PASS
175	174	5	9	7.9	8603	PASS
176	174	95	101	98.3	106960	PASS
177	176	5	9	7.1	7581	PASS

2B134467.D M2B5926.M Tue Sep 15 15:29:42 2015 ACC-VOA-CLN-05A

Average of 15.766 to 15.776 min.: 2B134467.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1057	51.10	5697	65.05	407	77.05	606
37.10	5291	52.05	253	66.90	116	78.05	384
38.10	4573	53.20	50	67.15	267	79.00	3508
39.10	1908	55.00	261	68.10	9533	80.00	984
40.00	29	56.05	1564	69.10	9914	81.00	3600
44.05	612	57.10	2928	70.05	757	81.90	762
45.10	958	60.10	1008	72.00	613	86.10	66
47.05	1213	61.10	5009	73.10	4614	87.00	3829
48.05	620	62.10	4998	74.10	17425	88.00	3837
49.10	4522	63.10	3791	75.10	51349	91.00	459
50.10	19197	64.10	455	76.10	4548	92.00	3021

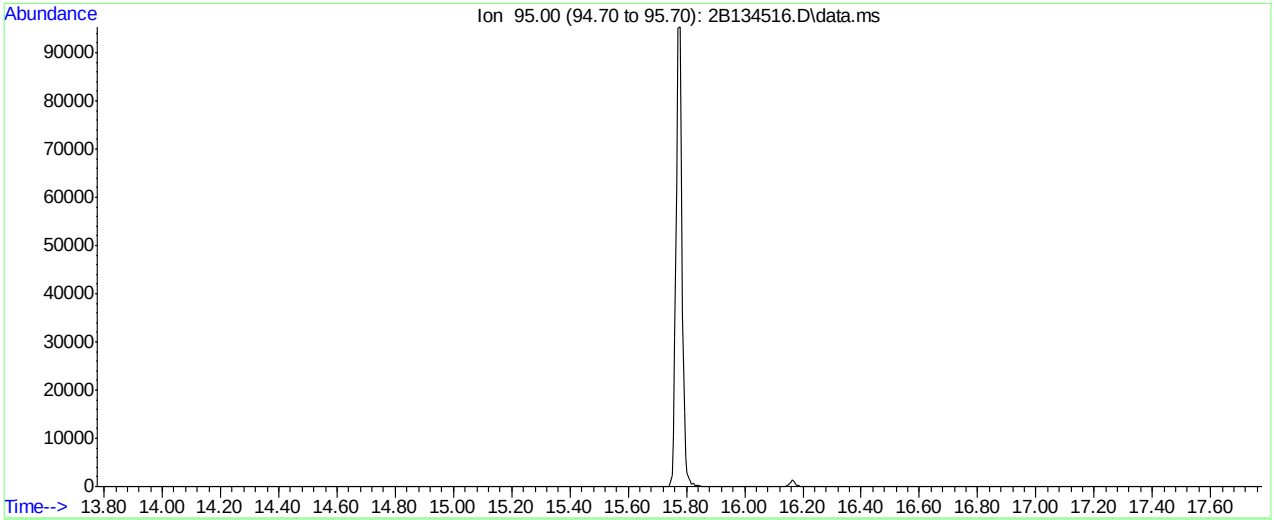
Average of 15.766 to 15.776 min.: 2B134467.D\data.ms
bfb
Modified:subtracted

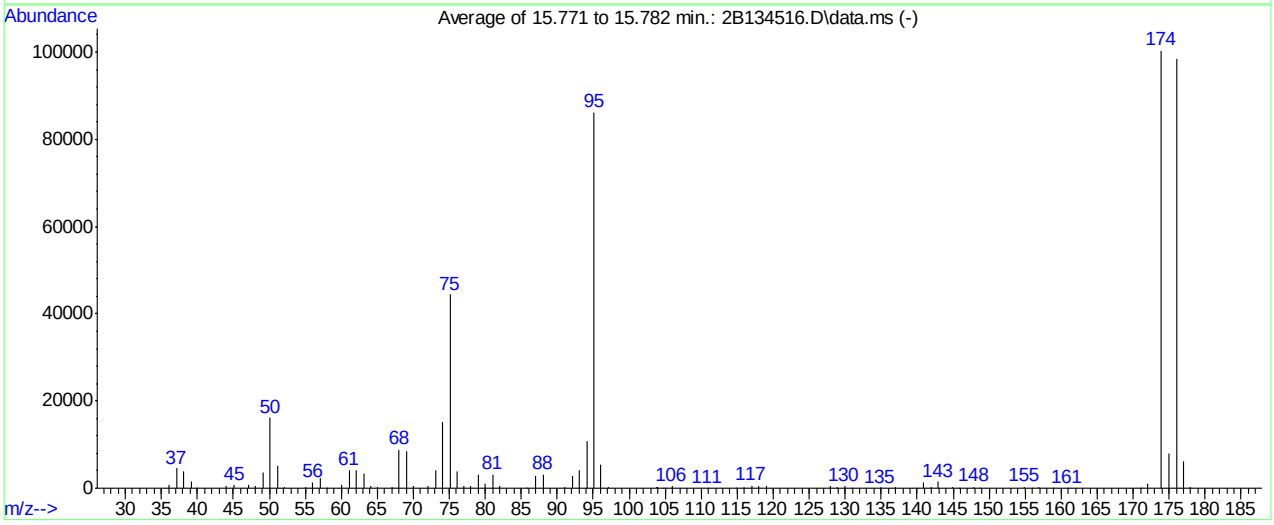
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	4419	116.95	684	142.95	1508	171.95	941
94.05	12283	117.85	473	144.95	287	174.00	108818
95.10	100941	118.90	638	145.90	192	175.00	8603
96.05	6462	127.95	500	147.00	51	176.00	106960
97.00	221	128.95	199	147.90	301	177.00	7581
103.95	559	129.95	433	152.80	58	177.95	166
105.05	105	130.85	116	154.85	278		
105.95	458	134.90	281	156.95	249		
106.90	60	136.95	258	158.90	135		
114.90	112	140.95	1215	160.85	111		
115.95	489	141.90	137	171.10	50		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5994\2B134516.D Vial: 1
Acq On : 16 Sep 2015 8:25 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms91006,v2B5994,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2230, 2231, 2232; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	16187	PASS
75	95	30	60	51.6	44394	PASS
95	95	100	100	100.0	86114	PASS
96	95	5	9	6.4	5510	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	116.5	100362	PASS
175	174	5	9	7.9	7909	PASS
176	174	95	101	98.0	98344	PASS
177	176	5	9	6.3	6218	PASS

2B134516.D M2B5926.M Thu Sep 17 16:48:29 2015 ACC-VOA-CLN-05A

Average of 15.771 to 15.782 min.: 2B134516.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	802	51.10	5191	65.05	371	78.00	453
37.10	4519	52.05	169	67.10	286	79.00	2979
38.10	3814	55.00	302	68.05	8792	80.00	933
39.10	1587	56.05	1403	69.10	8605	81.00	3168
39.95	55	57.10	2359	70.05	580	82.00	642
44.05	592	58.00	56	72.10	515	85.80	51
45.10	695	60.05	894	73.05	4029	87.00	2911
47.10	769	61.10	4238	74.10	15255	88.00	3133
48.10	521	62.10	4211	75.10	44394	91.05	380
49.10	3615	63.10	3473	76.10	3935	92.05	2715
50.10	16187	64.05	434	77.00	453	93.05	4046

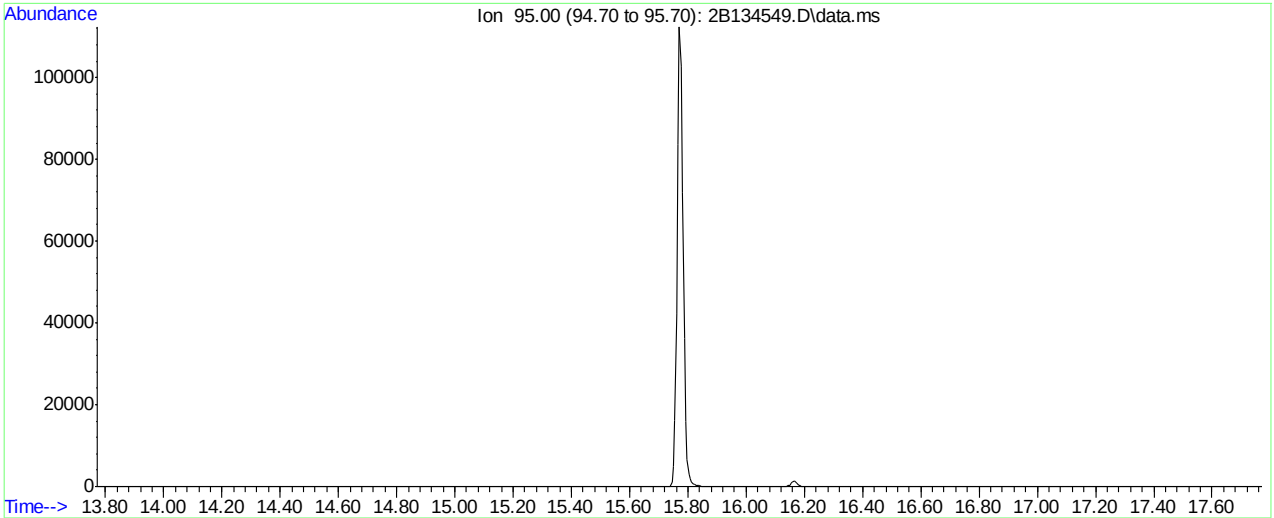
Average of 15.771 to 15.782 min.: 2B134516.D\data.ms
bfb
Modified:subtracted

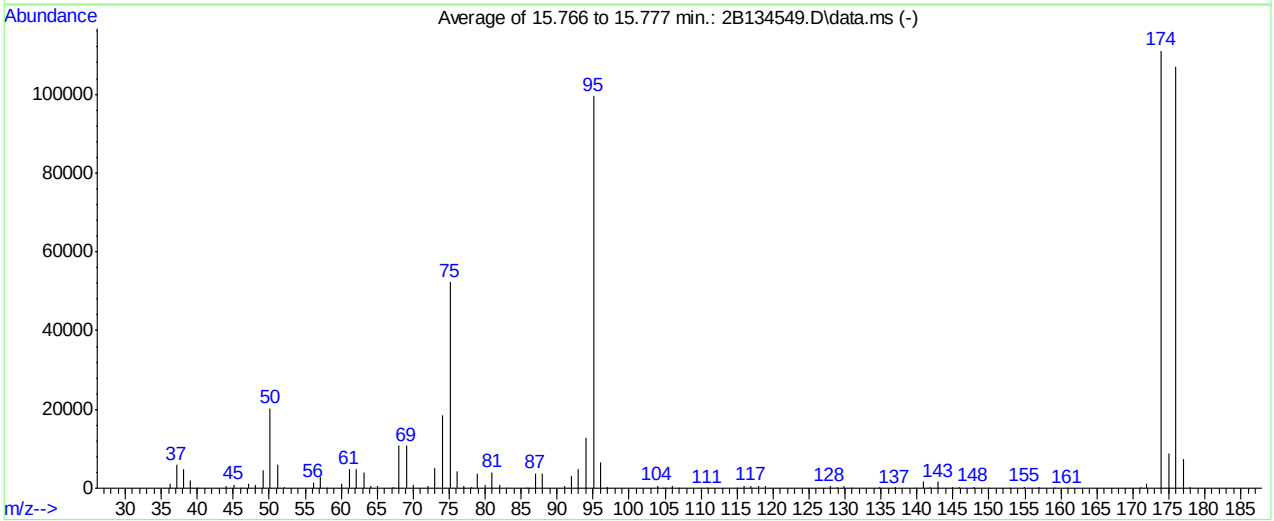
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	10802	115.95	387	140.90	1209	160.90	50
95.10	86114	117.00	644	141.95	140	171.10	65
96.05	5510	117.95	400	142.95	1456	171.95	1076
97.10	177	119.00	622	144.90	195	173.95	100362
103.80	150	127.95	426	145.90	100	175.00	7909
104.00	265	128.95	173	147.95	269	176.00	98344
104.80	64	129.95	431	148.70	57	177.00	6218
105.00	71	130.90	63	154.90	339	177.90	142
105.95	436	134.95	206	155.90	52		
110.90	54	136.90	188	156.95	217		
114.90	69	140.00	51	158.90	82		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\2b\v2b5996\2B134549.D Vial: 1
Acq On : 17 Sep 2015 10:08 am Operator: BridgetK
Sample : bfb Inst : MS2B
Misc : ms91224,v2B5996,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um





AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	20290	PASS
75	95	30	60	52.6	52298	PASS
95	95	100	100	100.0	99490	PASS
96	95	5	9	6.6	6570	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	111.7	111101	PASS
175	174	5	9	8.0	8894	PASS
176	174	95	101	96.3	106986	PASS
177	176	5	9	7.0	7504	PASS

2B134549.D M2B5926.M Thu Sep 17 16:16:08 2015 ACC-VOA-CLN-05A

Average of 15.766 to 15.777 min.: 2B134549.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.15	1120	50.10	20290	65.05	538	78.15	258
37.10	5907	51.10	6106	67.15	336	78.95	3726
38.10	4825	52.05	249	68.05	10698	80.00	990
39.10	1956	56.10	1472	69.05	10775	81.00	4019
40.00	62	57.10	2957	70.05	902	82.00	818
44.05	615	58.10	51	72.05	492	82.90	52
45.10	932	60.05	1117	73.05	4997	85.80	54
46.10	56	61.10	4978	74.10	18597	86.00	95
47.10	1126	62.10	4748	75.10	52298	87.00	3736
48.10	724	63.10	3976	76.10	4243	88.00	3654
49.10	4581	64.05	436	77.05	487	91.00	529

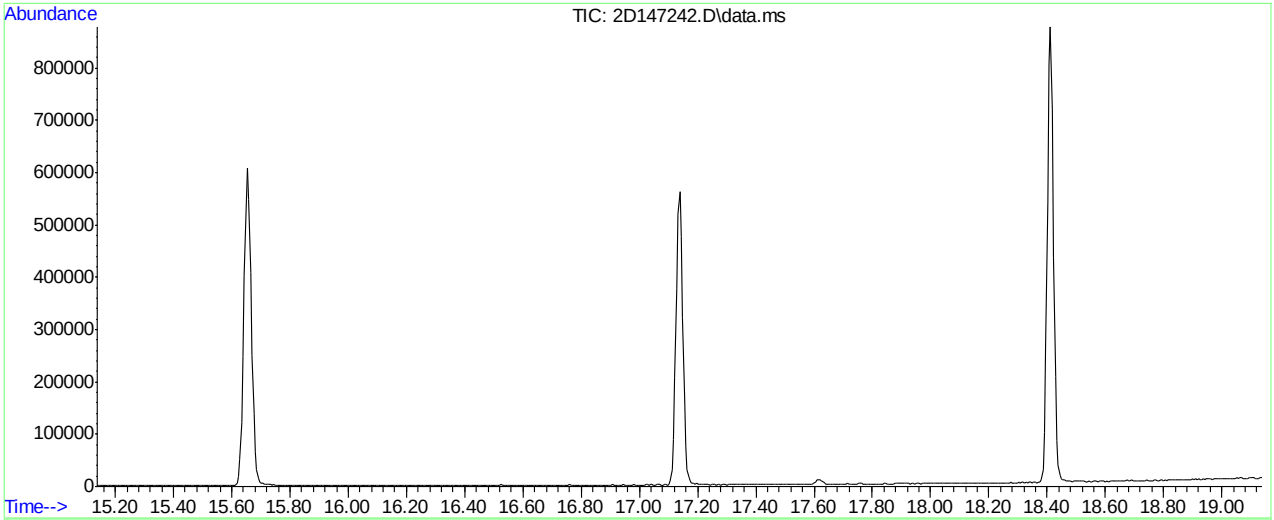
Average of 15.766 to 15.777 min.: 2B134549.D\data.ms
bfb
Modified:subtracted

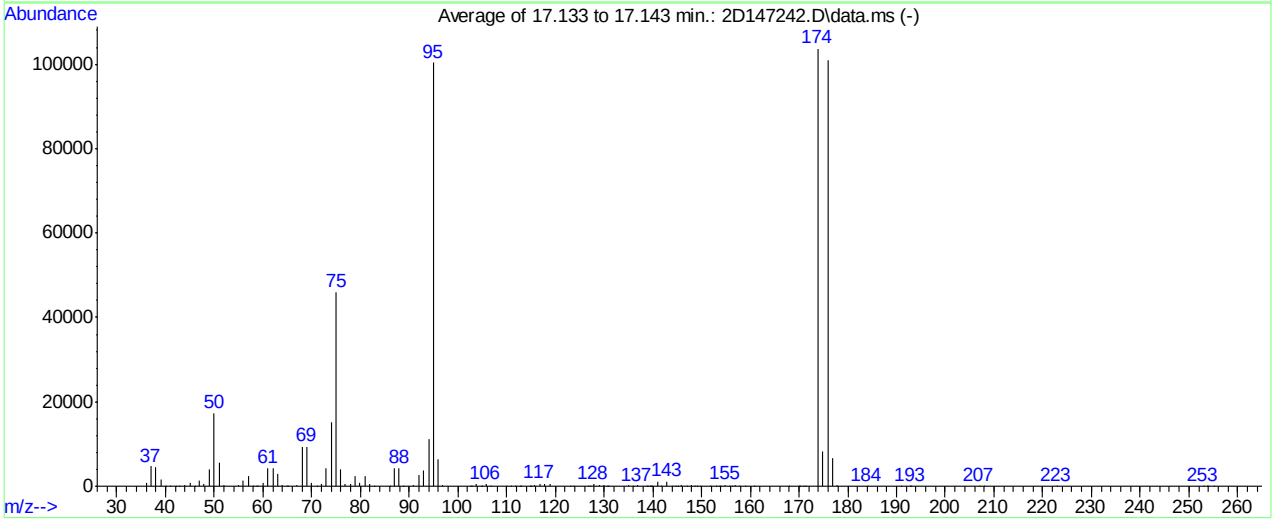
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	3082	110.90	61	137.00	271	156.95	213
93.00	4939	115.00	55	139.80	51	158.90	95
94.05	12681	115.95	484	140.95	1579	159.05	149
95.10	99490	116.95	708	141.90	155	160.90	56
96.10	6570	117.95	488	142.95	1617	171.05	220
96.95	223	119.00	668	144.90	220	171.90	1129
103.95	580	127.95	488	145.85	192	173.95	111101
104.80	57	128.95	197	147.85	291	174.95	8894
105.00	128	129.90	471	149.90	133	175.95	106986
105.95	494	130.90	63	152.90	72	177.00	7504
107.00	51	134.90	248	154.95	347	177.95	253

BFB

Data File : C:\msdchem\1\DATA\2D\v2d6171-6180\2D147242.D Vial: 4
Acq On : 14 Aug 2015 4:06 pm Operator: BridgetK
Sample : bfb Inst : MS2D
Misc : ms89231,v2d6180,w,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M2D6180.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





Spectrum Information: Average of 17.133 to 17.143 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	17363	PASS
75	95	30	60	45.8	46021	PASS
95	95	100	100	100.0	100378	PASS
96	95	5	9	6.5	6482	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	103.3	103733	PASS
175	174	5	9	7.9	8146	PASS
176	174	95	101	97.2	100842	PASS
177	176	5	9	6.5	6572	PASS

2D147242.D M2D6180.M Mon Aug 17 10:12:57 2015 RPT1

Average of 17.133 to 17.143 min.: 2D147242.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	849	47.00	1462	58.90	57	69.95	704
37.00	4775	47.95	521	60.00	792	71.00	26
38.00	4471	49.00	3911	61.00	4282	71.95	472
39.00	1497	50.00	17363	62.00	4192	73.00	4215
39.95	110	51.00	5545	63.00	3044	74.00	15205
41.00	5	52.00	183	64.00	225	75.00	46021
42.00	21	55.05	222	64.90	20	76.00	4043
42.80	36	56.00	1350	65.10	26	76.90	432
44.00	348	57.00	2345	67.05	250	78.05	495
45.00	817	58.00	112	68.00	9412	78.90	2474
46.00	61	58.60	20	69.00	9421	79.90	733

Average of 17.133 to 17.143 min.: 2D147242.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	2461	95.00	100378	110.85	94	123.70	24
81.90	520	96.00	6482	111.85	106	126.70	31
82.90	71	96.95	157	112.80	62	127.10	29
85.95	82	102.70	30	113.00	22	127.90	434
86.95	4185	102.90	22	114.80	129	128.95	157
87.95	4337	103.85	412	115.00	51	129.90	406
88.70	63	104.80	134	115.80	258	130.70	50
90.95	370	105.00	37	116.85	566	130.95	113
92.00	2615	105.80	433	117.85	412	134.95	198
93.00	3830	106.75	77	118.90	518	135.85	54
94.00	11104	109.90	52	123.00	24	136.85	212

Average of 17.133 to 17.143 min.: 2D147242.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.70	21	145.85	183	155.80	20	173.90	103733
139.05	68	146.90	3	156.30	21	174.90	8146
139.40	21	147.85	184	156.90	213	175.90	100842
139.70	45	148.70	20	157.70	21	176.90	6572
139.95	103	148.95	88	158.85	138	177.85	184
140.90	1120	149.85	70	160.85	133	184.00	25
141.80	129	151.90	24	168.00	22	190.90	23
142.90	1137	152.95	70	170.05	43	192.70	26
143.90	63	153.70	22	170.30	26	192.95	56
144.80	80	154.00	25	170.90	40	206.95	94
145.10	21	154.85	288	171.30	84	208.00	31

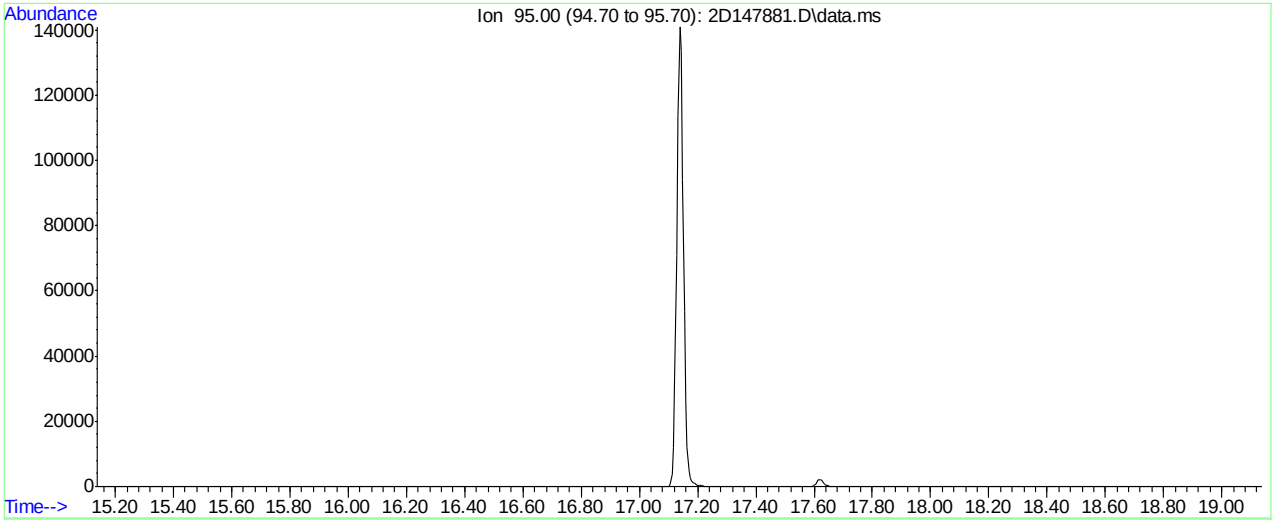
Average of 17.133 to 17.143 min.: 2D147242.D\data.ms
bfb
Modified:subtracted

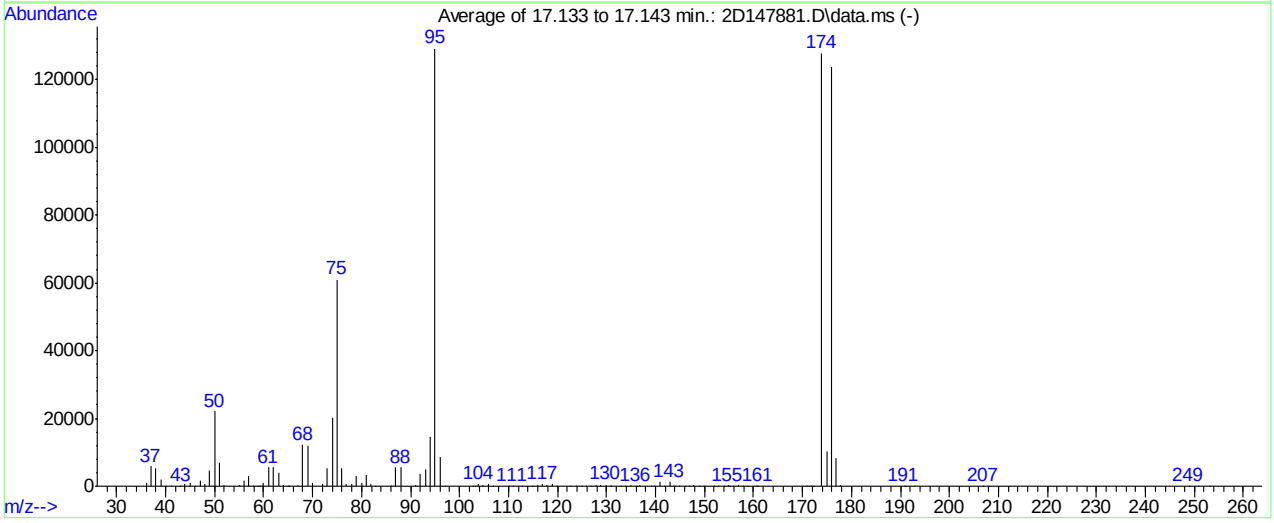
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
222.90	21						
253.00	118						
253.80	24						
254.00	31						
255.00	20						

BFB

Data File : C:\msdchem\1\DATA\2D...10\v2d6208\2D147881.D Vial: 1
Acq On : 9 Sep 2015 8:11 am Operator: BridgetK
Sample : bfb Inst : MS2D
Misc : ms90617,v2d6208,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2D6180.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2566, 2567, 2568; Background Corrected with Scan 2557

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	22048	PASS
75	95	30	60	47.2	60917	PASS
95	95	100	100	100.0	129173	PASS
96	95	5	9	6.8	8752	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.9	127768	PASS
175	174	5	9	8.1	10337	PASS
176	174	95	101	96.8	123736	PASS
177	176	5	9	6.7	8250	PASS

2D147881.D M2D6180.M Thu Sep 10 09:41:44 2015 RPT1

Average of 17.133 to 17.143 min.: 2D147881.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1027	48.05	735	60.00	1166	72.00	709
37.00	5898	49.00	4758	61.00	5530	73.00	5423
38.00	5424	50.00	22048	62.00	5631	74.00	20141
39.00	1991	51.00	6957	63.00	3998	75.00	60917
39.95	91	52.00	347	63.95	457	76.00	5270
41.10	21	55.00	333	64.85	58	76.90	817
43.00	62	56.00	1820	65.10	42	77.95	528
44.00	624	57.00	3036	66.95	322	78.90	3146
45.00	966	57.90	104	68.00	12163	79.95	947
45.90	29	58.85	44	69.00	11993	80.90	3346
47.00	1685	59.30	33	70.00	906	81.90	723

Average of 17.133 to 17.143 min.: 2D147881.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.90	117	102.80	29	115.90	463	128.90	214
85.90	134	103.05	63	116.90	660	129.90	487
86.95	5549	103.90	590	117.90	480	130.80	61
87.95	5570	104.75	195	118.90	647	130.95	152
90.95	411	105.85	555	119.90	25	132.90	59
92.00	3512	106.90	120	122.70	24	133.90	49
93.00	4957	109.95	107	123.85	70	134.95	215
94.00	14492	110.85	110	124.90	53	136.00	23
95.00	129173	111.90	119	125.80	20	136.85	210
96.00	8752	112.85	108	126.80	44	139.10	28
96.95	174	114.90	156	127.85	463	139.85	126

Average of 17.133 to 17.143 min.: 2D147881.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.90	1229	151.95	66	170.00	33	191.00	36
141.85	127	152.85	94	170.90	39	192.90	92
142.90	1323	153.90	116	171.25	96	206.85	89
143.70	22	154.80	223	171.90	93	207.90	31
143.85	67	155.00	97	172.20	125	248.90	124
144.90	137	155.80	27	173.90	127768	250.80	20
145.85	162	156.90	223	174.95	10337	253.00	38
146.90	163	157.85	42	175.90	123736	253.80	22
147.85	419	158.80	136	176.90	8250		
148.95	129	160.70	48	177.85	217		
149.85	141	160.85	151	190.80	95		

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132808.D
Acq On : 24 Jul 2015 10:44 am
Operator : BridgetK
Sample : ic5926-0.2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 16:31:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	108387	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	477071	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	495979	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	412478	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	225748	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	157140	49.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.72%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	163653	50.59	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.18%			
82) toluene-d8 (s)	13.30	98	525119	49.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.60%			
108) 4-bromofluorobenzene (s)	15.78	95	190467	50.21	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.42%			

Target Compounds

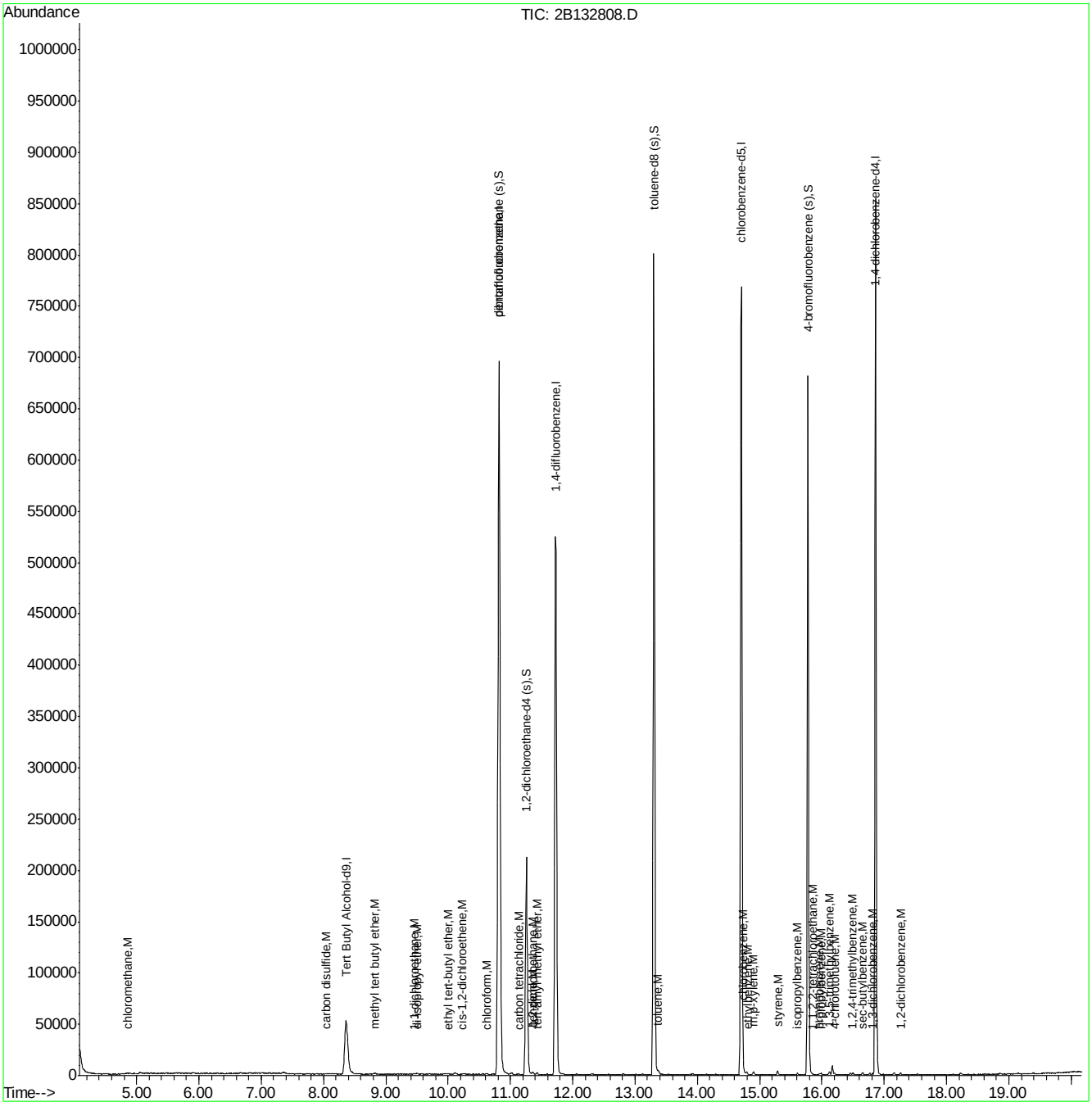
						Qvalue
12) chloromethane	4.85	50	845	0.24	ug/L #	49
30) carbon disulfide	8.04	76	1564	0.22	ug/L	84
34) methyl tert butyl ether	8.82	73	1108	0.20	ug/L	53
36) di-isopropyl ether	9.50	45	1182	0.17	ug/L	66
38) 1,1-dichloroethane	9.45	63	709	0.18	ug/L #	50
42) ethyl tert-butyl ether	9.99	59	1092	0.17	ug/L #	66
45) cis-1,2-dichloroethene	10.23	96	501	0.19	ug/L #	53
49) chloroform	10.63	83	780	0.20	ug/L	86
63) carbon tetrachloride	11.14	117	568	0.19	ug/L	73
66) benzene	11.37	78	1615	0.20	ug/L	99
68) tert-amyl methyl ether	11.42	73	1189	0.23	ug/L	49
71) 1,2-dichloroethane	11.36	62	437	0.17	ug/L #	50
84) toluene	13.38	92	1171	0.24	ug/L	96
98) chlorobenzene	14.74	112	1002	0.19	ug/L	93
100) ethylbenzene	14.81	91	1616	0.18	ug/L	88
101) m,p-xylene	14.90	106	1270	0.36	ug/L	92
103) styrene	15.29	104	1030	0.17	ug/L	83
107) isopropylbenzene	15.61	105	1654	0.18	ug/L	99
110) bromobenzene	15.95	156	451	0.16	ug/L	93
111) 1,1,2,2-tetrachloroethane	15.86	83	381	0.16	ug/L	87
114) n-propylbenzene	15.99	91	1840	0.19	ug/L	86
116) 4-chlorotoluene	16.21	91	1137	0.17	ug/L	88
117) 1,3,5-trimethylbenzene	16.13	105	1412	0.19	ug/L	84
120) 1,2,4-trimethylbenzene	16.49	105	1362	0.18	ug/L	85
121) sec-butylbenzene	16.65	105	1923	0.19	ug/L	91
122) 1,3-dichlorobenzene	16.81	146	985	0.19	ug/L	87
125) 1,2-dichlorobenzene	17.27	146	975	0.19	ug/L	87

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132808.D
Acq On : 24 Jul 2015 10:44 am
Operator : BridgetK
Sample : ic5926-0.2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 16:31:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 07/30/15 14:58

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132809.D
Acq On : 24 Jul 2015 11:12 am
Operator : BridgetK
Sample : ic5926-0.5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 16:34:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	109374	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	475046	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	502611	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	418167	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	228605	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	155885	49.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.36%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	162676	50.50	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.00%			
82) toluene-d8 (s)	13.30	98	528862	49.49	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 98.98%			
108) 4-bromofluorobenzene (s)	15.78	95	191459	49.84	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 99.68%			

Target Compounds

						Qvalue
3) ethanol	6.92	45	1467	59.49	ug/L #	38
12) chloromethane	4.86	50	1969	0.56	ug/L	91
13) vinyl chloride	5.13	62	1541	0.47	ug/L	94
15) bromomethane	5.90	94	1370	0.61	ug/L	83
18) trichlorofluoromethane	6.63	101	1720	0.42	ug/L	87
24) 1,1-dichloroethene	7.60	96	961	0.47	ug/L #	50
28) iodomethane	7.89	142	2214	0.52	ug/L	94
30) carbon disulfide	8.04	76	3776	0.53	ug/L	77
31) methylene chloride	8.39	84	1191	0.51	ug/L	88
34) methyl tert butyl ether	8.82	73	2792	0.50	ug/L	96
35) trans-1,2-dichloroethene	8.83	96	1035	0.46	ug/L	92
36) di-isopropyl ether	9.50	45	3863	0.55	ug/L	93
38) 1,1-dichloroethane	9.44	63	1768	0.46	ug/L	87
39) chloroprene	9.58	53	1459	0.45	ug/L	83
40) acrylonitrile	8.74	53	1720	2.39	ug/L	96
42) ethyl tert-butyl ether	9.99	59	3131	0.49	ug/L	89
44) 2,2-dichloropropane	10.26	77	1675	0.51	ug/L	84
45) cis-1,2-dichloroethene	10.23	96	1381	0.53	ug/L #	77
46) propionitrile	10.29	54	1165	4.34	ug/L	64
47) bromochloromethane	10.55	128	509	0.39	ug/L #	68
49) chloroform	10.62	83	2028	0.52	ug/L	99
55) 1,1,1-trichloroethane	10.92	97	1560	0.45	ug/L	81
56) Cyclohexane	11.01	84	1430	0.46	ug/L	85
63) carbon tetrachloride	11.13	117	1621	0.54	ug/L	95
64) 1,1-dichloropropene	11.11	75	1429	0.53	ug/L	85
66) benzene	11.37	78	4280	0.53	ug/L	96
67) 2,2,4-trimethylpentane	11.42	57	3280	0.44	ug/L	95
68) tert-amyl methyl ether	11.42	73	2731	0.51	ug/L	96
71) 1,2-dichloroethane	11.35	62	1353	0.52	ug/L	89
72) trichloroethene	12.06	95	1110	0.52	ug/L	86
75) 2-chloroethyl vinyl ether	12.81	63	2494	2.51	ug/L	98
77) 1,2-dichloropropane	12.30	63	1031	0.50	ug/L	98
78) dibromomethane	12.44	93	559	0.42	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132809.D
Acq On : 24 Jul 2015 11:12 am
Operator : BridgetK
Sample : ic5926-0.5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 16:34:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
79) methylcyclohexane	12.31	83	1466	0.39 ug/L	81
80) bromodichloromethane	12.56	83	1463	0.50 ug/L	84
81) cis-1,3-dichloropropene	13.01	75	1685	0.49 ug/L	94
84) toluene	13.38	92	3143	0.63 ug/L	93
86) trans-1,3-dichloropropene	13.53	75	1381	0.46 ug/L	98
88) 1,1,2-trichloroethane	13.73	83	718	0.48 ug/L	90
91) butyl ether	14.69	57	3846	0.45 ug/L #	79
92) tetrachloroethene	13.92	164	1115	0.49 ug/L	86
93) 1,3-dichloropropane	13.90	76	1360	0.47 ug/L	90
96) dibromochloromethane	14.14	129	1201	0.48 ug/L	85
97) 1,2-dibromoethane	14.30	107	874	0.44 ug/L	71
98) chlorobenzene	14.74	112	2778	0.51 ug/L	92
99) 1,1,1,2-tetrachloroethane	14.79	131	1110	0.48 ug/L	85
100) ethylbenzene	14.80	91	4527	0.50 ug/L	96
101) m,p-xylene	14.90	106	3365	0.93 ug/L	96
102) o-xylene	15.28	106	1820	0.49 ug/L	94
103) styrene	15.28	104	2932	0.47 ug/L	88
105) bromoform	15.50	173	854	0.44 ug/L	88
107) isopropylbenzene	15.61	105	4684	0.50 ug/L	87
110) bromobenzene	15.95	156	1468	0.51 ug/L	88
111) 1,1,2,2-tetrachloroethane	15.84	83	1114	0.47 ug/L	95
114) n-propylbenzene	15.99	91	4842	0.48 ug/L	96
115) 2-chlorotoluene	16.11	126	998m	0.41 ug/L	
116) 4-chlorotoluene	16.21	91	3280	0.50 ug/L	88
117) 1,3,5-trimethylbenzene	16.13	105	3695	0.48 ug/L	94
118) tert-butylbenzene	16.45	119	3205	0.47 ug/L	98
119) pentachloroethane	16.51	167	949	0.52 ug/L	89
120) 1,2,4-trimethylbenzene	16.49	105	3556	0.47 ug/L	94
121) sec-butylbenzene	16.66	105	4785	0.47 ug/L	94
122) 1,3-dichlorobenzene	16.81	146	2596	0.49 ug/L	96
123) p-isopropyltoluene	16.77	119	4193	0.48 ug/L	96
124) 1,4-dichlorobenzene	16.88	146	2549	0.49 ug/L	88
125) 1,2-dichlorobenzene	17.26	146	2320	0.44 ug/L	92

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

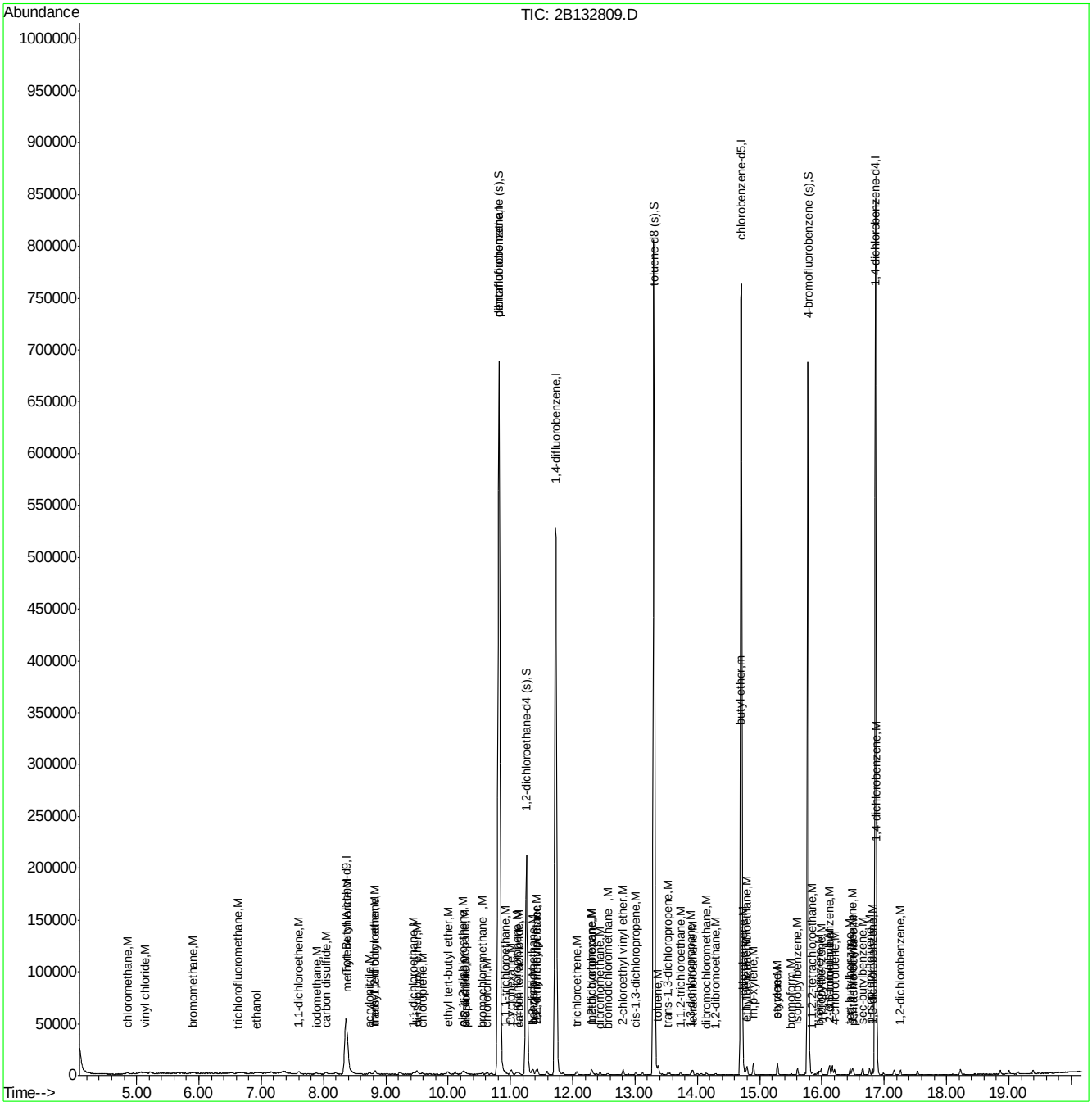
7.7.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132809.D
Acq On : 24 Jul 2015 11:12 am
Operator : BridgetK
Sample : ic5926-0.5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 16:34:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	V2B5926-IC5926	**Method:**	SW846 8260C
Lab FileID:	2B132809.D	**Analyst approved:**	07/29/15 16:48 Robert Szot
Injection Time:	07/24/15 11:12	**Supervisor approved:**	07/30/15 14:58 Jessica Reitan-Chu

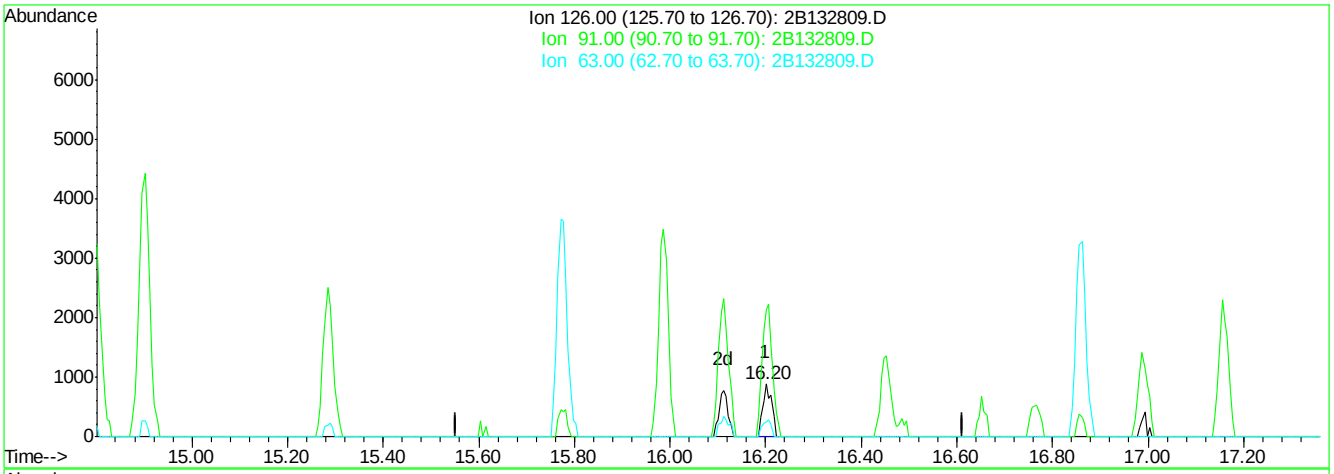
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Chlorotoluene	95-49-8		16.11	Missed peak

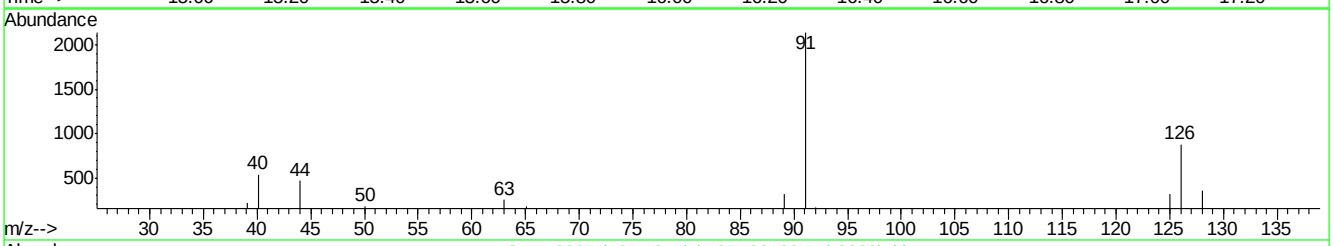
Quantitation Report (Qedit)

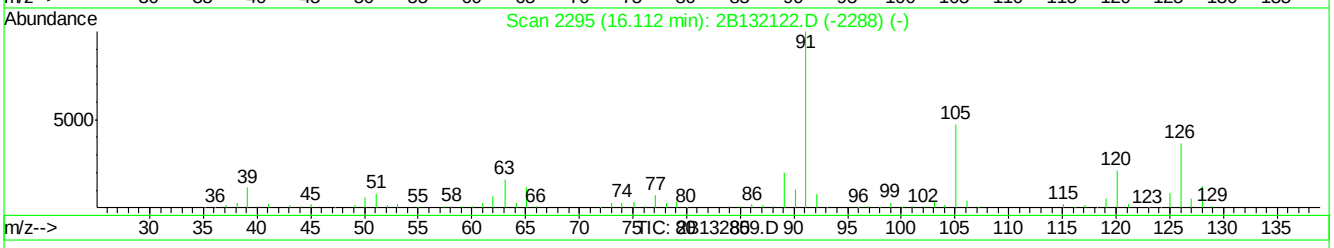
Data File : C:\MSDCHEM\1\DATA\2B132809.D Vial: 5
Acq On : 24 Jul 2015 11:12 am Operator: BridgetK
Sample : ic5926-0.5 Inst : MS2B
Misc : ms88284,v2B5926,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jul 24 11:35:03 2015 Results File: M2B5926.RES

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update : Fri Jul 24 15:49:52 2015
Response via : Multiple Level Calibration







(115) 2-chlorotoluene (M)

16.20min 0.44ug/L

response 1088

Ion	Exp%	Act%
126.00	100	100
91.00	271.20	243.62
63.00	38.10	28.59
0.00	0.00	0.00

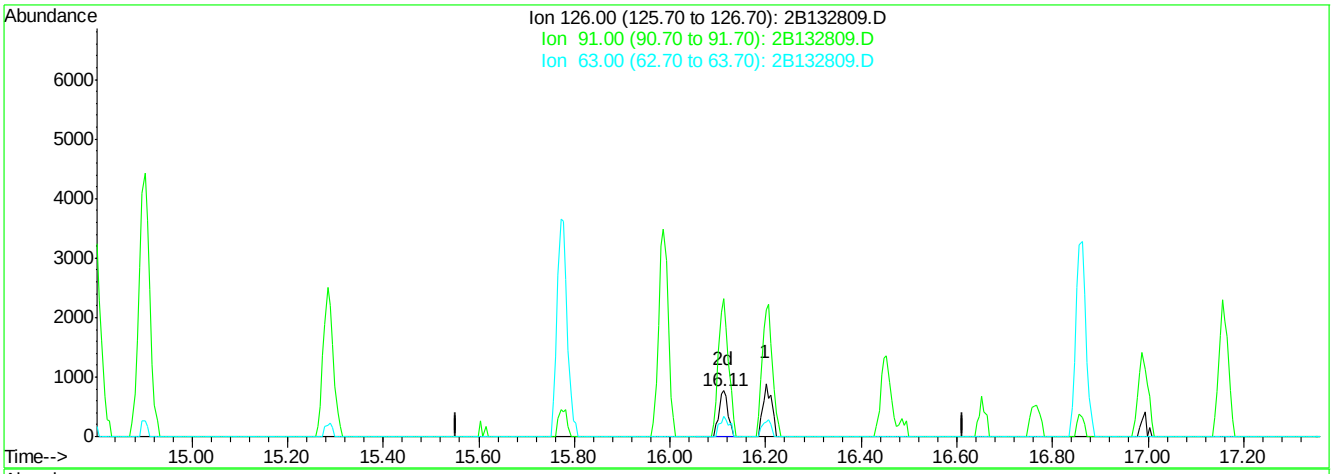
2B132809.D M2B5926.M Wed Jul 29 16:34:39 2015 MS2B

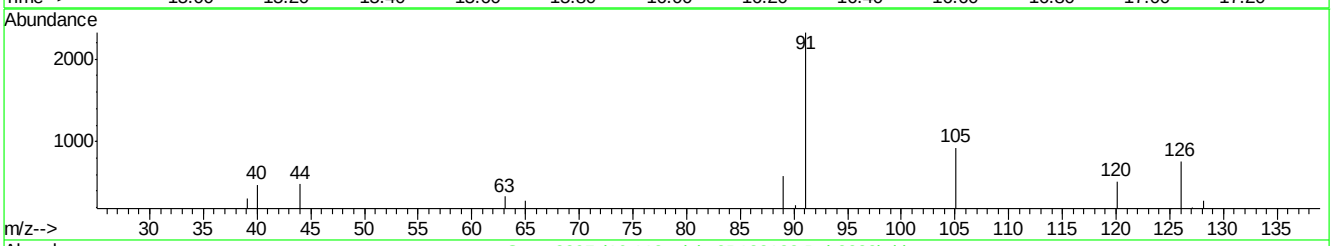
Quantitation Report (Qedit)

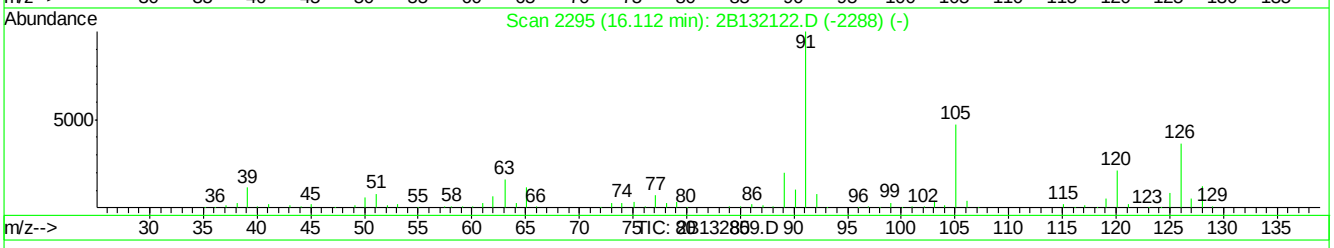
Data File : C:\MSDCHEM\1\DATA\2B132809.D Vial: 5
Acq On : 24 Jul 2015 11:12 am Operator: BridgetK
Sample : ic5926-0.5 Inst : MS2B
Misc : ms88284,v2B5926,w,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jul 24 11:35:03 2015 Results File: M2B5926.RES

Method : C:\MSDCHEM\1\METHODS\M2B5926.M (RTE Integrator)
Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
Last Update : Fri Jul 24 15:49:52 2015
Response via : Multiple Level Calibration







(115) 2-chlorotoluene (M)

16.11min 0.41ug/L m

response 998

Ion	Exp%	Act%
126.00	100	100
91.00	271.20	303.53#
63.00	38.10	43.59
0.00	0.00	0.00

2B132809.D M2B5926.M Wed Jul 29 16:34:46 2015 MS2B

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132810.D
Acq On : 24 Jul 2015 11:41 am
Operator : BridgetK
Sample : ic5926-1
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 16:36:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	108031	500.00	ug/L	0.00
5) pentafluorobenzene	10.81	168	469760	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	492260	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	413221	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	225275	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	154980	49.94	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.88%			
52) 1,2-dichloroethane-d4 (s)	11.25	65	159505	50.07	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 100.14%			
82) toluene-d8 (s)	13.30	98	523996	50.07	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 100.14%			
108) 4-bromofluorobenzene (s)	15.78	95	189051	49.94	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 99.88%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	8.49	59	1239	5.01	ug/L	50
3) ethanol	6.92	45	3015	123.78	ug/L #	38
9) chlorodifluoromethane	4.49	51	2378	0.91	ug/L	84
10) dichlorodifluoromethane	4.50	85	2662	0.75	ug/L #	48
12) chloromethane	4.84	50	3441	0.99	ug/L	96
13) vinyl chloride	5.14	62	3079	0.95	ug/L	89
15) bromomethane	5.89	94	2400	1.09	ug/L	96
16) chloroethane	6.11	64	1293	0.88	ug/L	88
18) trichlorofluoromethane	6.64	101	3618	0.89	ug/L	91
20) ethyl ether	7.16	74	1161	1.00	ug/L #	75
21) acrolein	7.38	56	4003	9.64	ug/L	97
22) 2-chloropropane	7.34	43	5044	1.22	ug/L	92
24) 1,1-dichloroethene	7.60	96	2096	1.03	ug/L	91
26) allyl chloride	8.19	76	1000	0.93	ug/L #	82
28) iodomethane	7.89	142	4514	1.07	ug/L	93
30) carbon disulfide	8.04	76	8112	1.16	ug/L	90
31) methylene chloride	8.38	84	2579	1.12	ug/L	81
34) methyl tert butyl ether	8.81	73	6129	1.11	ug/L	85
35) trans-1,2-dichloroethene	8.83	96	2457	1.11	ug/L	95
36) di-isopropyl ether	9.50	45	7724	1.10	ug/L	97
38) 1,1-dichloroethane	9.44	63	4101	1.07	ug/L	94
39) chloroprene	9.58	53	3240	1.02	ug/L	96
40) acrylonitrile	8.74	53	3753	5.28	ug/L	93
42) ethyl tert-butyl ether	9.99	59	6487	1.03	ug/L	94
44) 2,2-dichloropropane	10.26	77	3729	1.14	ug/L	93
45) cis-1,2-dichloroethene	10.23	96	2566	1.00	ug/L	93
46) propionitrile	10.29	54	2556	9.63	ug/L	96
47) bromochloromethane	10.55	128	1286	0.99	ug/L	94
49) chloroform	10.62	83	4299	1.12	ug/L	89
50) t-butyl formate	10.70	59	1426	0.88	ug/L	86
53) freon 113	7.60	151	1772	0.94	ug/L	88
54) methacrylonitrile	10.49	41	1117	0.90	ug/L	79
55) 1,1,1-trichloroethane	10.92	97	3531	1.04	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132810.D
Acq On : 24 Jul 2015 11:41 am
Operator : BridgetK
Sample : ic5926-1
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 16:36:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) Cyclohexane	11.02	84	2970	0.96	ug/L		92
61) epichlorohydrin	12.91	57	829	4.92	ug/L		54
62) n-butyl alcohol	11.84	56	1924	40.41	ug/L		75
63) carbon tetrachloride	11.13	117	3538	1.19	ug/L		79
64) 1,1-dichloropropene	11.09	75	2912	1.10	ug/L		94
65) hexane	9.22	57	2850	1.00	ug/L		88
66) benzene	11.36	78	8936	1.14	ug/L		97
67) 2,2,4-trimethylpentane	11.42	57	7154	0.98	ug/L		97
68) tert-amyl methyl ether	11.43	73	5772	1.11	ug/L		96
69) heptane	11.59	57	1403	0.87	ug/L		86
70) isopropyl acetate	11.30	43	3534	0.99	ug/L		89
71) 1,2-dichloroethane	11.34	62	2800	1.09	ug/L		84
72) trichloroethene	12.06	95	2203	1.04	ug/L		90
75) 2-chloroethyl vinyl ether	12.81	63	5050	5.19	ug/L		94
77) 1,2-dichloropropane	12.30	63	2098	1.04	ug/L		96
78) dibromomethane	12.44	93	1326	1.02	ug/L		96
79) methylcyclohexane	12.31	83	3532	0.97	ug/L		93
80) bromodichloromethane	12.56	83	3053	1.07	ug/L		96
81) cis-1,3-dichloropropene	13.01	75	3533	1.06	ug/L		90
84) toluene	13.38	92	5965	1.23	ug/L		82
86) trans-1,3-dichloropropene	13.53	75	3039	1.04	ug/L		93
87) ethyl methacrylate	13.56	69	2122	0.95	ug/L		95
88) 1,1,2-trichloroethane	13.73	83	1566	1.06	ug/L		91
91) butyl ether	14.69	57	8178	0.96	ug/L	#	84
92) tetrachloroethene	13.92	164	2272	1.02	ug/L		89
93) 1,3-dichloropropane	13.90	76	3072	1.08	ug/L		92
94) butyl acetate	14.00	56	970	0.90	ug/L	#	80
96) dibromochloromethane	14.14	129	2594	1.04	ug/L		91
97) 1,2-dibromoethane	14.29	107	1988	1.01	ug/L		97
98) chlorobenzene	14.73	112	6144	1.14	ug/L		97
99) 1,1,1,2-tetrachloroethane	14.79	131	2360	1.04	ug/L		94
100) ethylbenzene	14.80	91	9345	1.04	ug/L		97
101) m,p-xylene	14.90	106	7388	2.07	ug/L		98
102) o-xylene	15.28	106	3800	1.04	ug/L		98
103) styrene	15.29	104	6223	1.01	ug/L		100
105) bromoform	15.51	173	1653	0.87	ug/L		91
107) isopropylbenzene	15.61	105	9449	1.02	ug/L		97
109) cyclohexanone	15.73	98	579	73.02	ug/L	#	88
110) bromobenzene	15.96	156	2836	1.00	ug/L		93
111) 1,1,2,2-tetrachloroethane	15.84	83	2347	1.00	ug/L		97
112) trans-1,4-dichloro-2-buten	15.89	53	490	0.84	ug/L	#	63
113) 1,2,3-trichloropropane	15.92	110	504	0.85	ug/L		96
114) n-propylbenzene	15.99	91	10287	1.04	ug/L		98
115) 2-chlorotoluene	16.11	126	2540	1.05	ug/L		97
116) 4-chlorotoluene	16.20	91	6497	1.00	ug/L		98
117) 1,3,5-trimethylbenzene	16.12	105	7792	1.02	ug/L		96
118) tert-butylbenzene	16.45	119	6504	0.97	ug/L		97
119) pentachloroethane	16.51	167	1903	1.06	ug/L		95
120) 1,2,4-trimethylbenzene	16.49	105	7328	0.97	ug/L		92
121) sec-butylbenzene	16.65	105	9949	0.99	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132810.D
Acq On : 24 Jul 2015 11:41 am
Operator : BridgetK
Sample : ic5926-1
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 16:36:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
122) 1,3-dichlorobenzene	16.81	146	5665	1.08 ug/L	96
123) p-isopropyltoluene	16.76	119	8677	1.00 ug/L	98
124) 1,4-dichlorobenzene	16.88	146	5548	1.08 ug/L	89
125) 1,2-dichlorobenzene	17.26	146	5131	0.99 ug/L	92
126) n-butylbenzene	17.16	92	3802	0.92 ug/L	97
128) 1,3,5-trichlorobenzene	18.22	180	4527	0.95 ug/L	96
129) 1,2,4-trichlorobenzene	18.86	180	3493	0.87 ug/L	95
130) hexachlorobutadiene	19.00	225	2437	1.03 ug/L	97
131) naphthalene	19.14	128	5289	0.82 ug/L	96
132) 1,2,3-trichlorobenzene	19.38	180	2984	0.90 ug/L	91
133) hexachloroethane	17.54	201	1941	1.08 ug/L	91

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

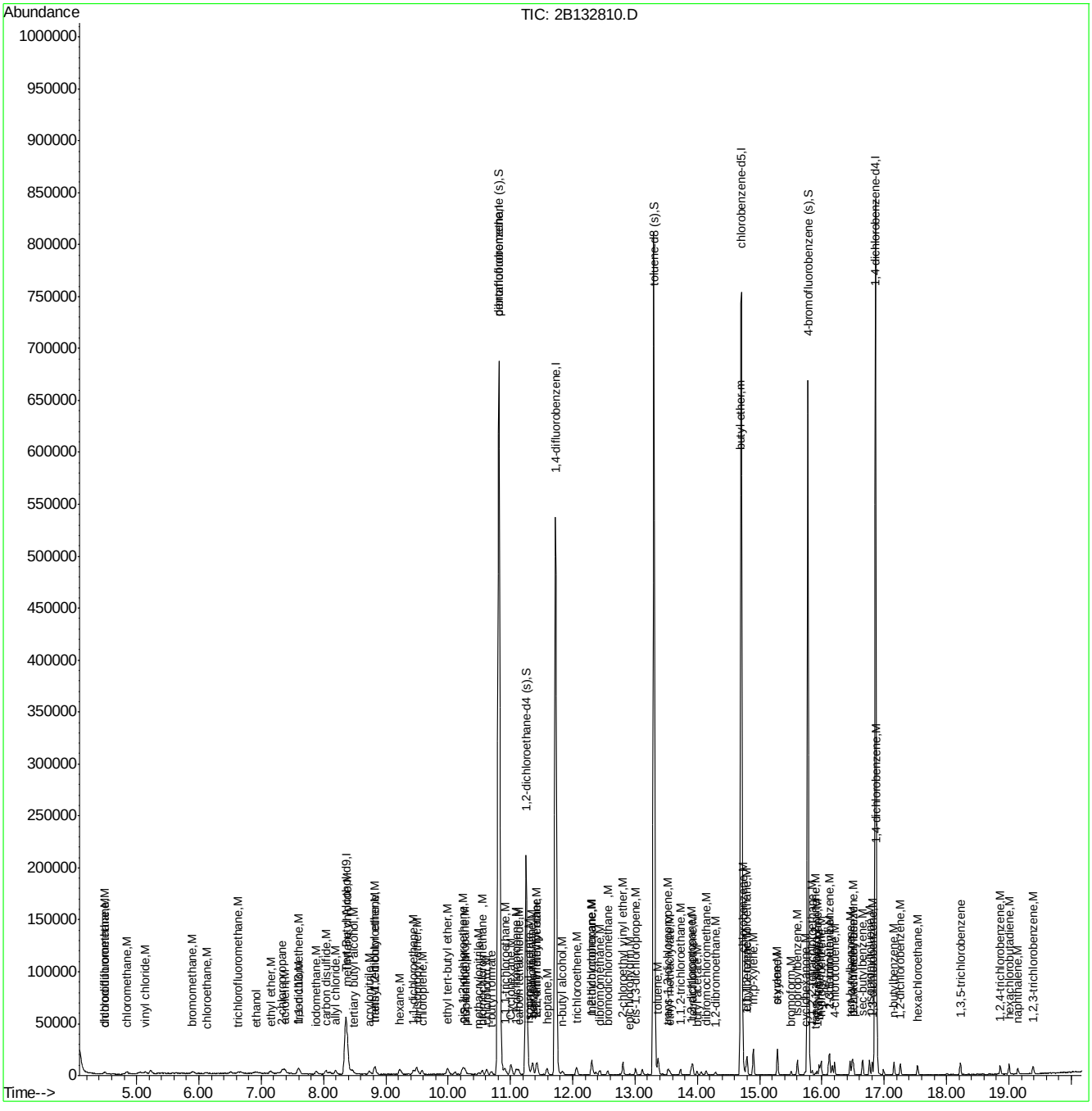
7.7.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132810.D
Acq On : 24 Jul 2015 11:41 am
Operator : BridgetK
Sample : ic5926-1
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 16:36:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132811.D
Acq On : 24 Jul 2015 12:09 pm
Operator : BridgetK
Sample : ic5926-2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 16:43:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:39:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	106285	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	467521	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	493778	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	415837	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	222023	50.00	ug/L	0.00

System Monitoring Compounds						
51) dibromofluoromethane (s)	10.82	113	154628	49.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.72%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	159317	49.92	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.84%			
82) toluene-d8 (s)	13.30	98	522631	49.70	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.40%			
108) 4-bromofluorobenzene (s)	15.78	95	186374	50.01	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.02%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	8.50	59	2581	10.42	ug/L	85
3) ethanol	6.91	45	5604	219.78	ug/L	94
4) 1,4-dioxane	12.42	88	826	37.81	ug/L	87
9) chlorodifluoromethane	4.51	51	4989	1.82	ug/L	79
10) dichlorodifluoromethane	4.48	85	6727	1.65	ug/L	85
12) chloromethane	4.86	50	6854	1.81	ug/L	93
13) vinyl chloride	5.15	62	6454	1.89	ug/L	96
15) bromomethane	5.90	94	4870	2.04	ug/L	92
16) chloroethane	6.12	64	3063	1.98	ug/L	85
18) trichlorofluoromethane	6.67	101	8066	1.94	ug/L	98
20) ethyl ether	7.16	74	2672	2.05	ug/L	85
21) acrolein	7.39	56	8058	19.56	ug/L	99
22) 2-chloropropane	7.34	43	9397	2.06	ug/L	96
24) 1,1-dichloroethene	7.61	96	4683	2.08	ug/L	96
26) allyl chloride	8.21	76	2164	1.78	ug/L	85
28) iodomethane	7.89	142	9761	1.99	ug/L	94
30) carbon disulfide	8.04	76	15868	1.96	ug/L	95
31) methylene chloride	8.39	84	5052	1.95	ug/L	90
34) methyl tert butyl ether	8.82	73	12661	2.03	ug/L	96
35) trans-1,2-dichloroethene	8.83	96	5261	2.08	ug/L	96
36) di-isopropyl ether	9.50	45	15713	2.08	ug/L	96
38) 1,1-dichloroethane	9.44	63	8409	2.00	ug/L	94
39) chloroprene	9.58	53	6652	1.98	ug/L	95
40) acrylonitrile	8.74	53	7999	10.11	ug/L	97
42) ethyl tert-butyl ether	9.99	59	13197	1.99	ug/L	91
44) 2,2-dichloropropane	10.26	77	7478	2.00	ug/L	92
45) cis-1,2-dichloroethene	10.23	96	5904	2.11	ug/L	92
46) propionitrile	10.28	54	6063	21.30	ug/L	94
47) bromochloromethane	10.55	128	2830	2.01	ug/L	90
48) tetrahydrofuran	10.63	42	1180	1.95	ug/L #	62
49) chloroform	10.62	83	8942	2.06	ug/L	98
50) t-butyl formate	10.70	59	2820	1.74	ug/L	95
53) freon 113	7.61	151	3500	1.75	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132811.D
Acq On : 24 Jul 2015 12:09 pm
Operator : BridgetK
Sample : ic5926-2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 16:43:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:39:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) methacrylonitrile	10.49	41	2468	1.92	ug/L		96
55) 1,1,1-trichloroethane	10.92	97	7015	1.87	ug/L		92
56) Cyclohexane	11.02	84	6549	1.93	ug/L	#	72
61) epichlorohydrin	12.90	57	1634	9.16	ug/L		93
62) n-butyl alcohol	11.83	56	4291	90.87	ug/L		91
63) carbon tetrachloride	11.13	117	7119	2.08	ug/L		98
64) 1,1-dichloropropene	11.10	75	6331	2.06	ug/L		94
65) hexane	9.23	57	5683	1.78	ug/L		93
66) benzene	11.36	78	18275	2.03	ug/L		95
67) 2,2,4-trimethylpentane	11.42	57	14729	1.96	ug/L		95
68) tert-amyl methyl ether	11.43	73	11090	1.96	ug/L		95
69) heptane	11.59	57	2675	1.70	ug/L		85
70) isopropyl acetate	11.30	43	6930	1.91	ug/L		87
71) 1,2-dichloroethane	11.35	62	5948	2.07	ug/L		98
72) trichloroethene	12.06	95	4849	1.98	ug/L		93
74) 2-nitropropane	12.77	41	1067	1.97	ug/L		98
75) 2-chloroethyl vinyl ether	12.81	63	10381	9.31	ug/L		96
76) methyl methacrylate	12.33	100	917	1.74	ug/L	#	59
77) 1,2-dichloropropane	12.31	63	4308	1.90	ug/L		95
78) dibromomethane	12.44	93	2939	2.08	ug/L		94
79) methylcyclohexane	12.31	83	6701	1.84	ug/L		98
80) bromodichloromethane	12.57	83	6349	1.97	ug/L		97
81) cis-1,3-dichloropropene	13.01	75	7407	1.98	ug/L		95
83) 4-methyl-2-pentanone	13.12	58	1450	2.01	ug/L		93
84) toluene	13.37	92	11134	1.93	ug/L		96
85) 3-methyl-1-butanol	13.12	55	2351	33.39	ug/L		90
86) trans-1,3-dichloropropene	13.53	75	6126	1.89	ug/L		96
87) ethyl methacrylate	13.55	69	4531	1.84	ug/L		96
88) 1,1,2-trichloroethane	13.73	83	3239	1.97	ug/L		96
89) 2-hexanone	13.92	58	942	1.57	ug/L	#	68
91) n-butyl ether	14.69	57	17282	1.87	ug/L	#	86
92) tetrachloroethene	13.93	164	4800	1.92	ug/L		87
93) 1,3-dichloropropane	13.90	76	6385	1.97	ug/L		89
94) butyl acetate	13.99	56	2103	1.85	ug/L		94
95) 3,3-dimethyl-1-butanol	14.06	57	2314	16.26	ug/L		93
96) dibromochloromethane	14.15	129	5361	1.93	ug/L		92
97) 1,2-dibromoethane	14.29	107	4281	1.96	ug/L		93
98) chlorobenzene	14.73	112	12204	1.98	ug/L		96
99) 1,1,1,2-tetrachloroethane	14.79	131	4737	1.89	ug/L		94
100) ethylbenzene	14.80	91	20357	2.04	ug/L		99
101) m,p-xylene	14.90	106	15526	3.93	ug/L		97
102) o-xylene	15.28	106	8040	1.94	ug/L		95
103) styrene	15.28	104	12814	1.92	ug/L		94
105) bromoform	15.51	173	3731	1.86	ug/L		87
107) isopropylbenzene	15.61	105	20276	2.02	ug/L		98
109) cyclohexanone	15.73	98	1238	16.90	ug/L		89
110) bromobenzene	15.96	156	6203	2.05	ug/L		94
111) 1,1,2,2-tetrachloroethane	15.85	83	4871	2.03	ug/L		94
112) trans-1,4-dichloro-2-buten	15.89	53	1174	2.00	ug/L	#	78
113) 1,2,3-trichloropropane	15.92	110	1184	1.90	ug/L		86

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132811.D
Acq On : 24 Jul 2015 12:09 pm
Operator : BridgetK
Sample : ic5926-2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 16:43:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:39:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) n-propylbenzene	15.99	91	21639	2.02 ug/L	99
115) 2-chlorotoluene	16.11	126	5204	2.02 ug/L	91
116) 4-chlorotoluene	16.20	91	14128	2.05 ug/L	93
117) 1,3,5-trimethylbenzene	16.12	105	16207	1.99 ug/L	98
118) tert-butylbenzene	16.45	119	13933	1.90 ug/L	98
119) pentachloroethane	16.50	167	4046	2.02 ug/L	89
120) 1,2,4-trimethylbenzene	16.49	105	15742	1.98 ug/L	98
121) sec-butylbenzene	16.65	105	21402	1.98 ug/L	96
122) 1,3-dichlorobenzene	16.81	146	11888	2.10 ug/L	95
123) p-isopropyltoluene	16.76	119	18592	1.97 ug/L	96
124) 1,4-dichlorobenzene	16.89	146	10817	1.94 ug/L	96
125) 1,2-dichlorobenzene	17.26	146	11045	2.04 ug/L	96
126) n-butylbenzene	17.16	92	8052	1.76 ug/L	95
127) 1,2-dibromo-3-chloropropan	18.00	157	1032	1.75 ug/L	92
128) 1,3,5-trichlorobenzene	18.22	180	9601	1.85 ug/L	98
129) 1,2,4-trichlorobenzene	18.86	180	7431	1.73 ug/L	94
130) hexachlorobutadiene	19.00	225	5034	1.91 ug/L	92
131) naphthalene	19.15	128	11567	1.73 ug/L	95
132) 1,2,3-trichlorobenzene	19.39	180	6241	1.76 ug/L	99
133) hexachloroethane	17.53	201	3593	1.77 ug/L	88

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

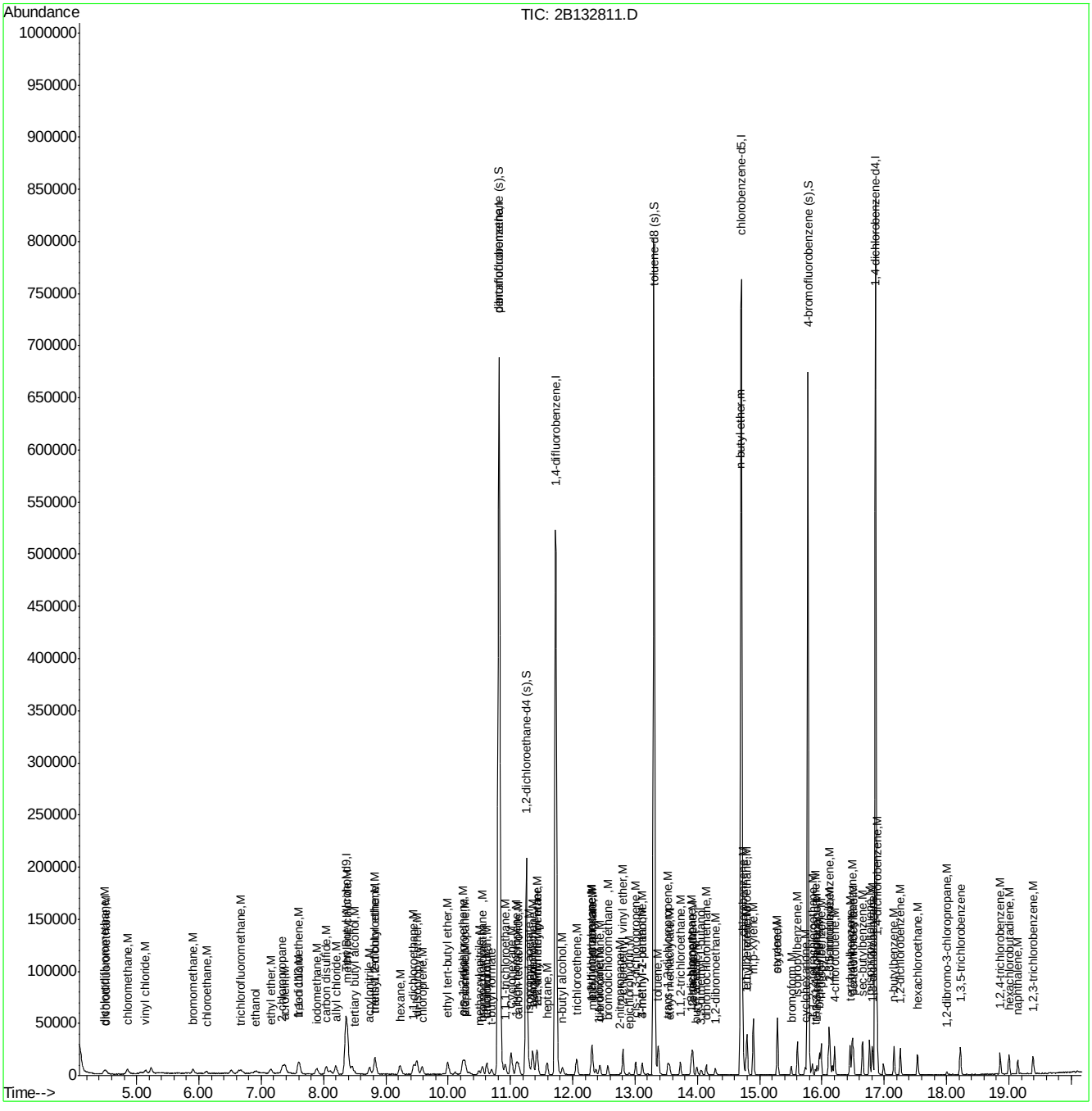
7.7.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132811.D
Acq On : 24 Jul 2015 12:09 pm
Operator : BridgetK
Sample : ic5926-2
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 16:43:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:39:25 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132812.D
Acq On : 24 Jul 2015 12:37 pm
Operator : BridgetK
Sample : ic5926-5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 16:37:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	104961	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	451824	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	476135	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	398602	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	218824	50.00	ug/L	0.00

System Monitoring Compounds						
51) dibromofluoromethane (s)	10.82	113	151907	50.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.80%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	155510	50.76	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.52%			
82) toluene-d8 (s)	13.30	98	501627	49.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.12%			
108) 4-bromofluorobenzene (s)	15.78	95	183557	49.92	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 99.84%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	8.50	59	6562	27.33	ug/L	96
3) ethanol	6.91	45	13409	566.62	ug/L	93
4) 1,4-dioxane	12.41	88	2691	127.03	ug/L	90
9) chlorodifluoromethane	4.50	51	12892	5.13	ug/L	96
10) dichlorodifluoromethane	4.48	85	19372	5.65	ug/L	90
12) chloromethane	4.85	50	17571	5.27	ug/L	97
13) vinyl chloride	5.15	62	16835	5.43	ug/L	94
15) bromomethane	5.91	94	11584	5.46	ug/L	88
16) chloroethane	6.12	64	7606	5.38	ug/L	98
18) trichlorofluoromethane	6.67	101	21224	5.45	ug/L	97
20) ethyl ether	7.15	74	6330	5.67	ug/L	88
21) acrolein	7.38	56	20116	50.38	ug/L	96
22) 2-chloropropane	7.35	43	22264	5.62	ug/L	92
24) 1,1-dichloroethene	7.60	96	11203	5.72	ug/L	89
25) acetone	7.64	43	3496	5.93	ug/L	95
26) allyl chloride	8.20	76	6095	5.87	ug/L	92
27) acetonitrile	8.10	40	6784	55.34	ug/L	95
28) iodomethane	7.89	142	23601	5.83	ug/L	97
29) iso-butyl alcohol	11.09	74	1212	49.33	ug/L	94
30) carbon disulfide	8.04	76	39205	5.81	ug/L	98
31) methylene chloride	8.39	84	12860	5.82	ug/L	98
32) methyl acetate	8.20	74	1679	5.16	ug/L #	52
33) 1-chloropropane	8.46	42	21154	5.56	ug/L	96
34) methyl tert butyl ether	8.82	73	30549	5.78	ug/L	99
35) trans-1,2-dichloroethene	8.83	96	12995	6.11	ug/L	94
36) di-isopropyl ether	9.50	45	36722	5.45	ug/L	96
37) 2-butanone	10.21	72	932	3.97	ug/L #	58
38) 1,1-dichloroethane	9.44	63	21413	5.83	ug/L	99
39) chloroprene	9.58	53	16803	5.49	ug/L	98
40) acrylonitrile	8.74	53	19250	28.16	ug/L	99
41) vinyl acetate	9.45	86	1797	4.76	ug/L	69
42) ethyl tert-butyl ether	9.99	59	31418	5.18	ug/L	96
43) ethyl acetate	10.26	45	1195	4.61	ug/L #	34

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132812.D
Acq On : 24 Jul 2015 12:37 pm
Operator : BridgetK
Sample : ic5926-5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 16:37:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,2-dichloropropane	10.26	77	18037	5.72	ug/L		97
45) cis-1,2-dichloroethene	10.23	96	13734	5.58	ug/L		98
46) propionitrile	10.28	54	14172	55.51	ug/L		98
47) bromochloromethane	10.55	128	7314	5.86	ug/L		90
48) tetrahydrofuran	10.63	42	2928	5.15	ug/L		94
49) chloroform	10.62	83	21639	5.84	ug/L		95
50) t-butyl formate	10.70	59	7122	4.58	ug/L		94
53) freon 113	7.60	151	9896	5.47	ug/L		86
54) methacrylonitrile	10.50	41	6172	5.14	ug/L		93
55) 1,1,1-trichloroethane	10.92	97	18382	5.60	ug/L		91
56) Cyclohexane	11.02	84	16580	5.56	ug/L		95
61) epichlorohydrin	12.90	57	4265	26.18	ug/L		97
62) n-butyl alcohol	11.83	56	10597	230.12	ug/L		90
63) carbon tetrachloride	11.14	117	17265	6.02	ug/L		99
64) 1,1-dichloropropene	11.10	75	15017	5.86	ug/L		96
65) hexane	9.23	57	15549	5.65	ug/L		94
66) benzene	11.36	78	44122	5.80	ug/L		97
67) 2,2,4-trimethylpentane	11.42	57	37021	5.22	ug/L		99
68) tert-amyl methyl ether	11.43	73	26900	5.33	ug/L		98
69) heptane	11.58	57	7533	4.83	ug/L		94
70) isopropyl acetate	11.30	43	16871	4.91	ug/L		94
71) 1,2-dichloroethane	11.35	62	14616	5.90	ug/L		98
72) trichloroethene	12.06	95	12405	6.08	ug/L		98
74) 2-nitropropane	12.77	41	2703	5.67	ug/L		95
75) 2-chloroethyl vinyl ether	12.81	63	27317	29.03	ug/L		97
76) methyl methacrylate	12.33	100	2315	4.76	ug/L		88
77) 1,2-dichloropropane	12.30	63	10922	5.57	ug/L		99
78) dibromomethane	12.44	93	6919	5.50	ug/L		96
79) methylcyclohexane	12.31	83	17700	5.01	ug/L		98
80) bromodichloromethane	12.56	83	15174	5.48	ug/L		99
81) cis-1,3-dichloropropene	13.01	75	17302	5.35	ug/L		97
83) 4-methyl-2-pentanone	13.12	58	3237	5.07	ug/L	#	79
84) toluene	13.38	92	26451	5.63	ug/L		95
85) 3-methyl-1-butanol	13.11	55	6353	95.76	ug/L		98
86) trans-1,3-dichloropropene	13.53	75	15332	5.41	ug/L		98
87) ethyl methacrylate	13.55	69	11186	5.20	ug/L		96
88) 1,1,2-trichloroethane	13.73	83	7869	5.51	ug/L		97
89) 2-hexanone	13.91	58	2743	4.76	ug/L		96
91) butyl ether	14.69	57	43394	5.30	ug/L		100
92) tetrachloroethene	13.93	164	12051	5.61	ug/L		94
93) 1,3-dichloropropane	13.90	76	15340	5.61	ug/L		98
94) butyl acetate	13.99	56	5403	5.18	ug/L		97
95) 3,3-dimethyl-1-butanol	14.06	57	6401	46.99	ug/L		99
96) dibromochloromethane	14.14	129	12903	5.36	ug/L		93
97) 1,2-dibromoethane	14.29	107	10474	5.51	ug/L		93
98) chlorobenzene	14.73	112	30042	5.78	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.79	131	12028	5.51	ug/L		97
100) ethylbenzene	14.80	91	48782	5.64	ug/L		99
101) m,p-xylene	14.90	106	39399	11.46	ug/L		97
102) o-xylene	15.28	106	19498	5.51	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132812.D
Acq On : 24 Jul 2015 12:37 pm
Operator : BridgetK
Sample : ic5926-5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 16:37:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

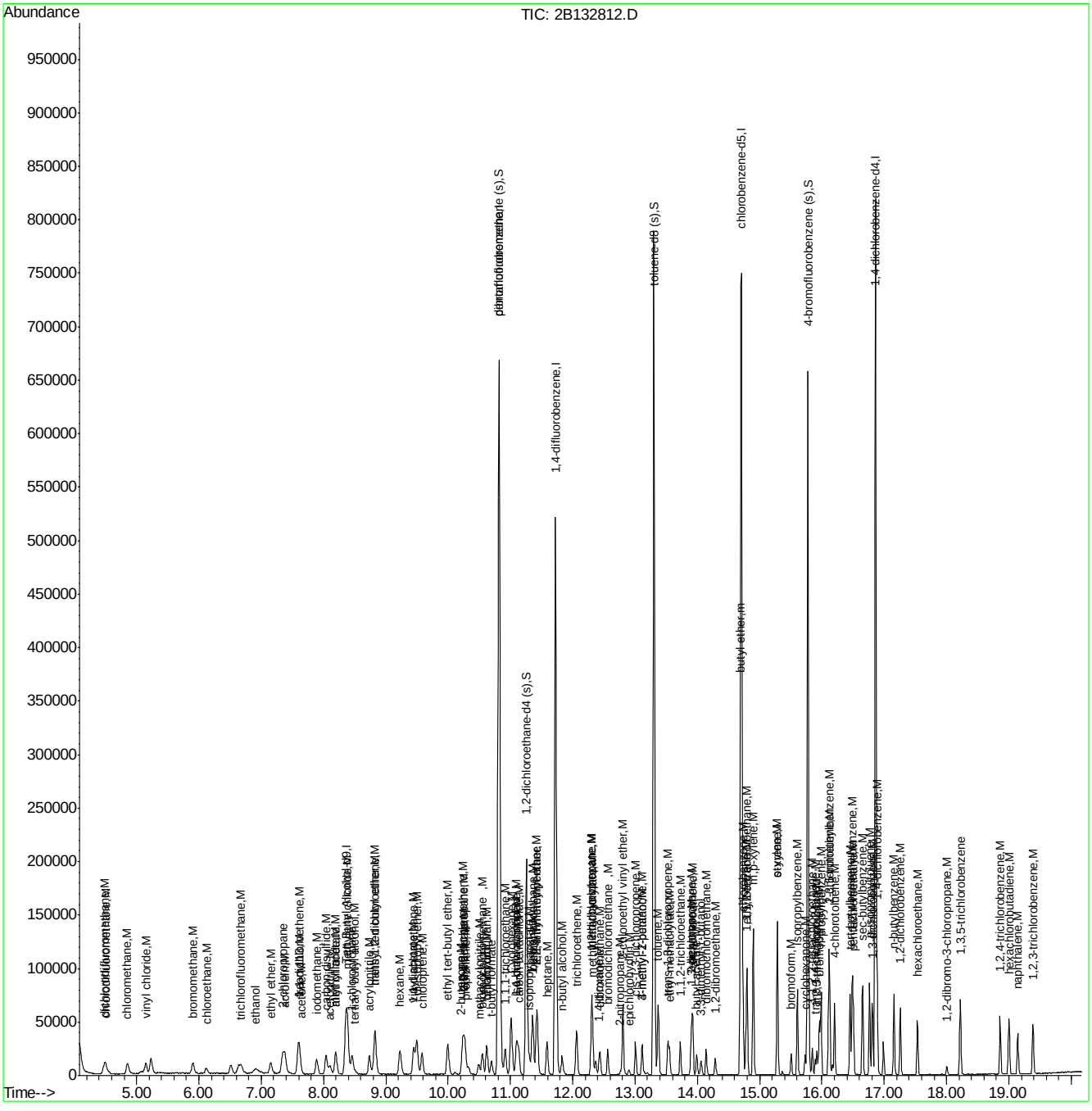
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	32063	5.38 ug/L	96
105) bromoform	15.50	173	9218	5.03 ug/L	99
107) isopropylbenzene	15.61	105	49978	5.54 ug/L	98
109) cyclohexanone	15.73	98	3738	108.30 ug/L	84
110) bromobenzene	15.96	156	15311	5.56 ug/L	97
111) 1,1,2,2-tetrachloroethane	15.84	83	11951	5.24 ug/L	96
112) trans-1,4-dichloro-2-buten	15.89	53	2843	5.02 ug/L	83
113) 1,2,3-trichloropropane	15.92	110	3100	5.37 ug/L	86
114) n-propylbenzene	15.99	91	54627	5.70 ug/L	98
115) 2-chlorotoluene	16.11	126	12848	5.49 ug/L	88
116) 4-chlorotoluene	16.20	91	34619	5.47 ug/L	98
117) 1,3,5-trimethylbenzene	16.12	105	40996	5.54 ug/L	98
118) tert-butylbenzene	16.45	119	35478	5.46 ug/L	97
119) pentachloroethane	16.51	167	9712	5.54 ug/L	92
120) 1,2,4-trimethylbenzene	16.49	105	40508	5.54 ug/L	98
121) sec-butylbenzene	16.65	105	54511	5.61 ug/L	99
122) 1,3-dichlorobenzene	16.81	146	28436	5.58 ug/L	98
123) p-isopropyltoluene	16.76	119	46008	5.48 ug/L	97
124) 1,4-dichlorobenzene	16.89	146	26668	5.32 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	26892	5.33 ug/L	96
126) n-butylbenzene	17.16	92	21832	5.42 ug/L	97
127) 1,2-dibromo-3-chloropropan	18.00	157	2561	6.67 ug/L	93
128) 1,3,5-trichlorobenzene	18.22	180	24335	5.27 ug/L	97
129) 1,2,4-trichlorobenzene	18.86	180	19404	4.97 ug/L	98
130) hexachlorobutadiene	19.01	225	12603	5.50 ug/L	97
131) naphthalene	19.14	128	30018	4.81 ug/L	98
132) 1,2,3-trichlorobenzene	19.39	180	16536	5.16 ug/L	97
133) hexachloroethane	17.53	201	9492	5.43 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132812.D
Acq On : 24 Jul 2015 12:37 pm
Operator : BridgetK
Sample : ic5926-5
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 16:37:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132813.D
Acq On : 24 Jul 2015 1:05 pm
Operator : BridgetK
Sample : ic5926-10
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 16:38:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	103686	500.00	ug/L	-0.01
5) pentafluorobenzene	10.81	168	447600	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	471988	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	397281	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	218413	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	149074	50.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.84%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	154006	50.74	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.48%			
82) toluene-d8 (s)	13.30	98	502309	50.06	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 100.12%			
108) 4-bromofluorobenzene (s)	15.78	95	184844	50.36	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.72%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	8.50	59	11990	50.56	ug/L	87
3) ethanol	6.91	45	25409	1086.90	ug/L	96
4) 1,4-dioxane	12.42	88	5384	257.27	ug/L	96
9) chlorodifluoromethane	4.50	51	25792	10.35	ug/L	95
10) dichlorodifluoromethane	4.49	85	39093	11.51	ug/L	94
12) chloromethane	4.85	50	35685	10.81	ug/L	95
13) vinyl chloride	5.15	62	33684	10.96	ug/L	98
15) bromomethane	5.90	94	22884	10.89	ug/L	90
16) chloroethane	6.12	64	15354	10.97	ug/L	93
18) trichlorofluoromethane	6.67	101	42021	10.89	ug/L	96
20) ethyl ether	7.15	74	12284	11.11	ug/L	98
21) acrolein	7.38	56	38809	98.12	ug/L	98
22) 2-chloropropane	7.34	43	42951	10.94	ug/L	98
24) 1,1-dichloroethene	7.60	96	22776	11.75	ug/L	99
25) acetone	7.63	43	7009	12.00	ug/L	93
26) allyl chloride	8.20	76	11887	11.56	ug/L #	87
27) acetonitrile	8.10	40	13562	111.68	ug/L	98
28) iodomethane	7.89	142	47975	11.96	ug/L	98
29) iso-butyl alcohol	11.09	74	2504	102.87	ug/L	89
30) carbon disulfide	8.04	76	79685	11.92	ug/L	100
31) methylene chloride	8.38	84	25508	11.65	ug/L	100
32) methyl acetate	8.20	74	3189	9.89	ug/L	97
33) 1-chloropropane	8.46	42	41379	10.98	ug/L	97
34) methyl tert butyl ether	8.82	73	62108	11.85	ug/L	98
35) trans-1,2-dichloroethene	8.83	96	25143	11.93	ug/L	96
36) di-isopropyl ether	9.50	45	74290	11.12	ug/L	95
37) 2-butanone	10.21	72	2307	9.92	ug/L #	67
38) 1,1-dichloroethane	9.44	63	42608	11.72	ug/L	98
39) chloroprene	9.58	53	32938	10.87	ug/L	97
40) acrylonitrile	8.73	53	38759	57.24	ug/L	98
41) vinyl acetate	9.45	86	3838	10.27	ug/L	75
42) ethyl tert-butyl ether	10.00	59	63639	10.60	ug/L	98
43) ethyl acetate	10.26	45	2554	9.95	ug/L	69

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132813.D
Acq On : 24 Jul 2015 1:05 pm
Operator : BridgetK
Sample : ic5926-10
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 16:38:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2-dichloropropane	10.26	77	37155	11.90	ug/L	99
45) cis-1,2-dichloroethene	10.23	96	27408	11.24	ug/L	97
46) propionitrile	10.28	54	28475	112.59	ug/L	97
47) bromochloromethane	10.55	128	14063	11.38	ug/L	97
48) tetrahydrofuran	10.62	42	5675	10.08	ug/L	94
49) chloroform	10.62	83	42278	11.52	ug/L	99
50) t-butyl formate	10.69	59	15292	9.93	ug/L	98
53) freon 113	7.61	151	19873	11.10	ug/L	96
54) methacrylonitrile	10.50	41	12655	10.64	ug/L	96
55) 1,1,1-trichloroethane	10.92	97	36293	11.17	ug/L	94
56) Cyclohexane	11.02	84	34206	11.58	ug/L #	82
61) epichlorohydrin	12.90	57	8272	51.23	ug/L	95
62) n-butyl alcohol	11.83	56	22134	484.87	ug/L	99
63) carbon tetrachloride	11.14	117	34101	12.00	ug/L	98
64) 1,1-dichloropropene	11.11	75	29938	11.79	ug/L	96
65) hexane	9.23	57	31200	11.44	ug/L	99
66) benzene	11.36	78	89003	11.80	ug/L	98
67) 2,2,4-trimethylpentane	11.42	57	73873	10.52	ug/L	98
68) tert-amyl methyl ether	11.42	73	52957	10.59	ug/L	95
69) heptane	11.59	57	15286	9.88	ug/L	97
70) isopropyl acetate	11.30	43	34370	10.08	ug/L	98
71) 1,2-dichloroethane	11.35	62	29832	12.15	ug/L	99
72) trichloroethene	12.06	95	23687	11.71	ug/L	97
74) 2-nitropropane	12.77	41	4650	9.84	ug/L	93
75) 2-chloroethyl vinyl ether	12.80	63	56016	60.04	ug/L	99
76) methyl methacrylate	12.32	100	5055	10.49	ug/L #	86
77) 1,2-dichloropropane	12.31	63	22144	11.40	ug/L	93
78) dibromomethane	12.43	93	14112	11.31	ug/L	98
79) methylcyclohexane	12.31	83	36098	10.30	ug/L	96
80) bromodichloromethane	12.56	83	31589	11.50	ug/L	100
81) cis-1,3-dichloropropene	13.01	75	36548	11.39	ug/L	99
83) 4-methyl-2-pentanone	13.11	58	6713	10.61	ug/L #	82
84) toluene	13.37	92	54491	11.70	ug/L	98
85) 3-methyl-1-butanol	13.11	55	13300	202.23	ug/L	96
86) trans-1,3-dichloropropene	13.53	75	31312	11.14	ug/L	98
87) ethyl methacrylate	13.55	69	24040	11.27	ug/L	100
88) 1,1,2-trichloroethane	13.73	83	15939	11.25	ug/L	97
89) 2-hexanone	13.91	58	5773	10.10	ug/L	92
91) butyl ether	14.69	57	89632	10.99	ug/L	99
92) tetrachloroethene	13.93	164	24310	11.36	ug/L	97
93) 1,3-dichloropropane	13.90	76	31532	11.58	ug/L	99
94) butyl acetate	13.99	56	10899	10.49	ug/L	94
95) 3,3-dimethyl-1-butanol	14.06	57	12714	93.64	ug/L	97
96) dibromochloromethane	14.15	129	26636	11.09	ug/L	98
97) 1,2-dibromoethane	14.29	107	21086	11.13	ug/L	99
98) chlorobenzene	14.73	112	60898	11.76	ug/L	98
99) 1,1,1,2-tetrachloroethane	14.79	131	24203	11.13	ug/L	95
100) ethylbenzene	14.80	91	100446	11.65	ug/L	99
101) m,p-xylene	14.90	106	79365	23.16	ug/L	92
102) o-xylene	15.28	106	39993	11.33	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132813.D
Acq On : 24 Jul 2015 1:05 pm
Operator : BridgetK
Sample : ic5926-10
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 16:38:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	66662	11.22 ug/L	97
105) bromoform	15.50	173	19018	10.42 ug/L	94
107) isopropylbenzene	15.61	105	104431	11.61 ug/L	99
109) cyclohexanone	15.73	98	7685	152.32 ug/L	96
110) bromobenzene	15.95	156	31353	11.41 ug/L	95
111) 1,1,2,2-tetrachloroethane	15.84	83	24701	10.86 ug/L	94
112) trans-1,4-dichloro-2-buten	15.89	53	5692	10.08 ug/L	95
113) 1,2,3-trichloropropane	15.92	110	6495	11.28 ug/L	89
114) n-propylbenzene	15.99	91	113223	11.84 ug/L	99
115) 2-chlorotoluene	16.11	126	25757	11.02 ug/L	87
116) 4-chlorotoluene	16.20	91	71003	11.25 ug/L	99
117) 1,3,5-trimethylbenzene	16.12	105	85989	11.65 ug/L	97
118) tert-butylbenzene	16.45	119	72765	11.23 ug/L	98
119) pentachloroethane	16.51	167	19940	11.40 ug/L	98
120) 1,2,4-trimethylbenzene	16.49	105	84516	11.57 ug/L	99
121) sec-butylbenzene	16.65	105	113332	11.68 ug/L	99
122) 1,3-dichlorobenzene	16.81	146	58419	11.48 ug/L	98
123) p-isopropyltoluene	16.76	119	96217	11.48 ug/L	99
124) 1,4-dichlorobenzene	16.88	146	55330	11.07 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	55611	11.05 ug/L	99
126) n-butylbenzene	17.16	92	45196	11.24 ug/L	98
127) 1,2-dibromo-3-chloropropan	18.00	157	5476	11.07 ug/L	99
128) 1,3,5-trichlorobenzene	18.22	180	50728	11.01 ug/L	97
129) 1,2,4-trichlorobenzene	18.86	180	41291	10.60 ug/L	97
130) hexachlorobutadiene	19.00	225	26704	11.67 ug/L	100
131) naphthalene	19.14	128	65877	10.57 ug/L	99
132) 1,2,3-trichlorobenzene	19.39	180	35239	11.01 ug/L	98
133) hexachloroethane	17.53	201	19441	11.14 ug/L	95

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

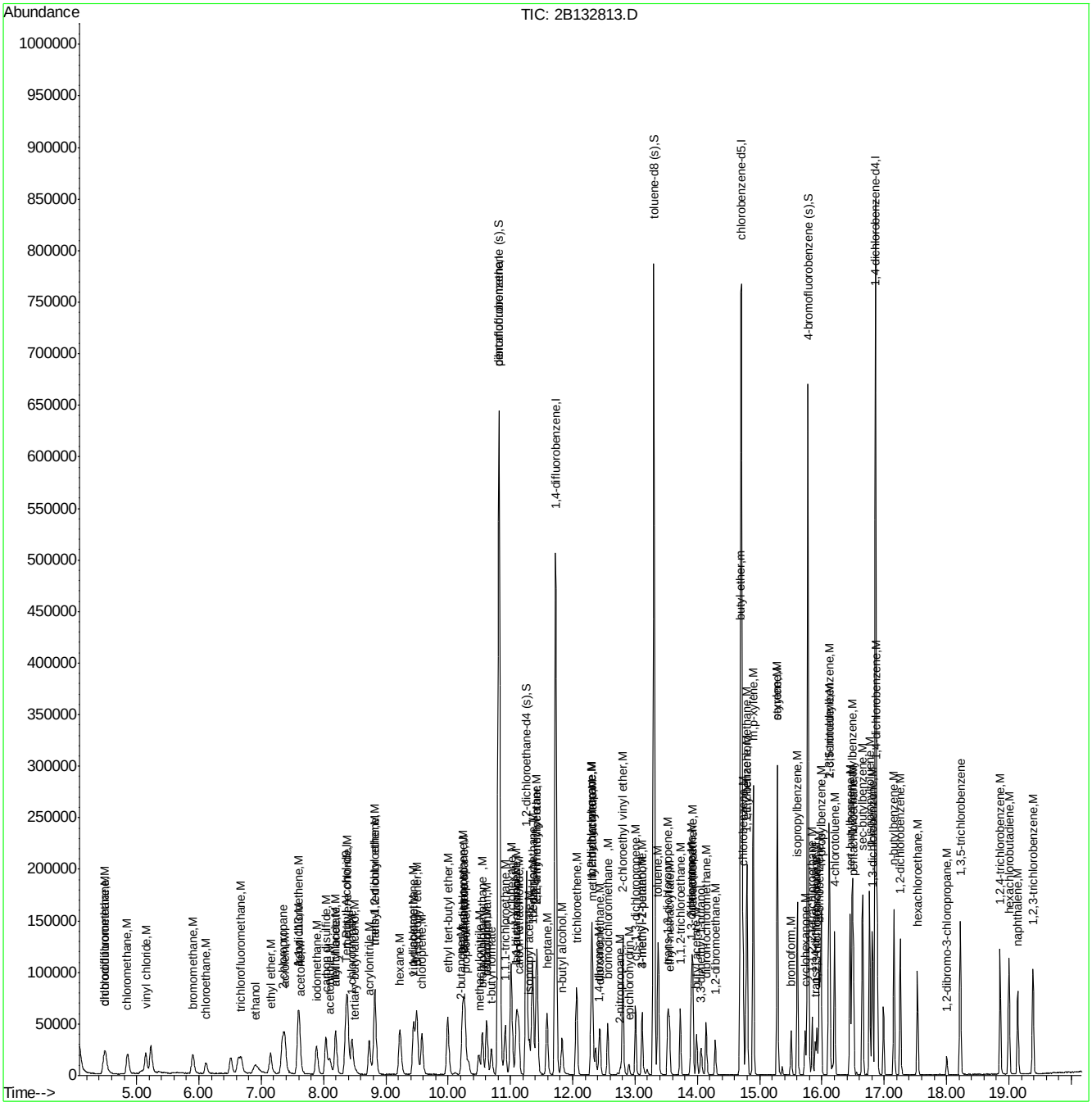
7.7.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132813.D
Acq On : 24 Jul 2015 1:05 pm
Operator : BridgetK
Sample : ic5926-10
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 16:38:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132814.D
Acq On : 24 Jul 2015 1:33 pm
Operator : BridgetK
Sample : ic5926-20
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 16:38:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.36	65	100526	500.00	ug/L	0.00
5) pentafluorobenzene	10.81	168	434754	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	459165	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	391850	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	213068	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	144981	50.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.96%			
52) 1,2-dichloroethane-d4 (s)	11.25	65	146575	49.72	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.44%			
82) toluene-d8 (s)	13.30	98	494397	50.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 101.30%			
108) 4-bromofluorobenzene (s)	15.78	95	180536	50.42	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.84%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	8.49	59	24892	108.26	ug/L	90
3) ethanol	6.91	45	47315	2087.59	ug/L	97
4) 1,4-dioxane	12.41	88	10585	521.70	ug/L	92
9) chlorodifluoromethane	4.50	51	52106	21.53	ug/L	96
10) dichlorodifluoromethane	4.48	85	76812	23.28	ug/L	97
12) chloromethane	4.87	50	71564	22.32	ug/L	97
13) vinyl chloride	5.16	62	66398	22.24	ug/L	99
15) bromomethane	5.90	94	43655	21.39	ug/L	98
16) chloroethane	6.12	64	29644	21.80	ug/L	96
18) trichlorofluoromethane	6.67	101	80968	21.60	ug/L	96
20) ethyl ether	7.15	74	24253	22.58	ug/L	98
21) acrolein	7.38	56	78236	203.65	ug/L	97
22) 2-chloropropane	7.34	43	82182	21.55	ug/L	98
24) 1,1-dichloroethene	7.60	96	42533	22.58	ug/L	98
25) acetone	7.64	43	12863	22.67	ug/L	98
26) allyl chloride	8.20	76	23216	23.25	ug/L	95
27) acetonitrile	8.10	40	26668	226.10	ug/L	96
28) iodomethane	7.89	142	92814	23.82	ug/L	97
29) iso-butyl alcohol	11.09	74	5110	216.14	ug/L	91
30) carbon disulfide	8.04	76	153808	23.68	ug/L	99
31) methylene chloride	8.39	84	48594	22.85	ug/L	96
32) methyl acetate	8.20	74	6724	21.47	ug/L	95
33) 1-chloropropane	8.46	42	80348	21.94	ug/L	97
34) methyl tert butyl ether	8.82	73	121940	23.96	ug/L	97
35) trans-1,2-dichloroethene	8.83	96	48043	23.48	ug/L	98
36) di-isopropyl ether	9.50	45	147528	22.75	ug/L	99
37) 2-butanone	10.21	72	4504	19.93	ug/L	89
38) 1,1-dichloroethane	9.44	63	82434	23.34	ug/L	99
39) chloroprene	9.58	53	63366	21.53	ug/L	98
40) acrylonitrile	8.74	53	75489	114.77	ug/L	99
41) vinyl acetate	9.45	86	7613	20.97	ug/L	70
42) ethyl tert-butyl ether	9.99	59	127012	21.78	ug/L	99
43) ethyl acetate	10.25	45	5022	20.14	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132814.D
Acq On : 24 Jul 2015 1:33 pm
Operator : BridgetK
Sample : ic5926-20
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 16:38:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,2-dichloropropane	10.26	77	71921	23.71	ug/L		99
45) cis-1,2-dichloroethene	10.23	96	53363	22.53	ug/L		93
46) propionitrile	10.28	54	55002	223.91	ug/L		97
47) bromochloromethane	10.55	128	27290	22.74	ug/L		97
48) tetrahydrofuran	10.62	42	11081	20.25	ug/L		88
49) chloroform	10.62	83	83105	23.32	ug/L		99
50) t-butyl formate	10.70	59	30641	20.48	ug/L		96
53) freon 113	7.61	151	38801	22.30	ug/L		95
54) methacrylonitrile	10.49	41	23785	20.60	ug/L		98
55) 1,1,1-trichloroethane	10.92	97	72332	22.91	ug/L		97
56) Cyclohexane	11.02	84	65495	22.83	ug/L		99
61) epichlorohydrin	12.90	57	16894	107.55	ug/L		97
62) n-butyl alcohol	11.83	56	45170	1017.13	ug/L		96
63) carbon tetrachloride	11.13	117	64901	23.48	ug/L		98
64) 1,1-dichloropropene	11.10	75	56864	23.03	ug/L		99
65) hexane	9.23	57	60644	22.85	ug/L		96
66) benzene	11.36	78	174194	23.73	ug/L		98
67) 2,2,4-trimethylpentane	11.42	57	145719	21.32	ug/L		98
68) tert-amyl methyl ether	11.43	73	106328	21.86	ug/L		98
69) heptane	11.59	57	29235	19.42	ug/L		97
70) isopropyl acetate	11.30	43	67897	20.47	ug/L		98
71) 1,2-dichloroethane	11.35	62	56126	23.50	ug/L		96
72) trichloroethene	12.06	95	45725	23.24	ug/L		97
74) 2-nitropropane	12.77	41	9910	21.55	ug/L		95
75) 2-chloroethyl vinyl ether	12.80	63	116420	128.27	ug/L		99
76) methyl methacrylate	12.33	100	10474	22.34	ug/L		95
77) 1,2-dichloropropane	12.30	63	44009	23.28	ug/L		99
78) dibromomethane	12.43	93	27843	22.93	ug/L		96
79) methylcyclohexane	12.31	83	71106	20.85	ug/L		98
80) bromodichloromethane	12.56	83	60651	22.70	ug/L		99
81) cis-1,3-dichloropropene	13.01	75	71588	22.94	ug/L		99
83) 4-methyl-2-pentanone	13.11	58	13810	22.45	ug/L	#	83
84) toluene	13.37	92	104944	23.16	ug/L		98
85) 3-methyl-1-butanol	13.11	55	27542	430.49	ug/L		96
86) trans-1,3-dichloropropene	13.53	75	63105	23.08	ug/L		99
87) ethyl methacrylate	13.55	69	47442	22.87	ug/L		98
88) 1,1,2-trichloroethane	13.73	83	31942	23.17	ug/L		97
89) 2-hexanone	13.91	58	11846	21.31	ug/L		97
91) butyl ether	14.69	57	179641	22.33	ug/L		99
92) tetrachloroethene	13.93	164	46163	21.87	ug/L		97
93) 1,3-dichloropropane	13.90	76	61386	22.85	ug/L		100
94) butyl acetate	13.99	56	21544	21.01	ug/L		98
95) 3,3-dimethyl-1-butanol	14.06	57	26794	200.07	ug/L		98
96) dibromochloromethane	14.14	129	52100	22.00	ug/L		99
97) 1,2-dibromoethane	14.29	107	41443	22.18	ug/L		100
98) chlorobenzene	14.73	112	117557	23.02	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.79	131	46806	21.82	ug/L		98
100) ethylbenzene	14.80	91	192413	22.62	ug/L		99
101) m,p-xylene	14.90	106	154738	45.77	ug/L		99
102) o-xylene	15.28	106	79257	22.77	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132814.D
Acq On : 24 Jul 2015 1:33 pm
Operator : BridgetK
Sample : ic5926-20
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 16:38:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	132743	22.66 ug/L	99
105) bromoform	15.50	173	37570	20.87 ug/L	99
107) isopropylbenzene	15.61	105	204294	23.28 ug/L	100
109) cyclohexanone	15.73	98	14944	237.29 ug/L	91
110) bromobenzene	15.96	156	61392	22.90 ug/L	98
111) 1,1,2,2-tetrachloroethane	15.84	83	48377	21.80 ug/L	99
112) trans-1,4-dichloro-2-buten	15.89	53	11337	20.58 ug/L	91
113) 1,2,3-trichloropropane	15.92	110	12434	22.13 ug/L	96
114) n-propylbenzene	15.99	91	217994	23.37 ug/L	100
115) 2-chlorotoluene	16.11	126	51693	22.68 ug/L	99
116) 4-chlorotoluene	16.20	91	138647	22.51 ug/L	100
117) 1,3,5-trimethylbenzene	16.12	105	166731	23.16 ug/L	99
118) tert-butylbenzene	16.45	119	145927	23.08 ug/L	99
119) pentachloroethane	16.51	167	38816	22.75 ug/L	95
120) 1,2,4-trimethylbenzene	16.49	105	164040	23.02 ug/L	99
121) sec-butylbenzene	16.65	105	220180	23.26 ug/L	99
122) 1,3-dichlorobenzene	16.81	146	111721	22.51 ug/L	99
123) p-isopropyltoluene	16.76	119	190294	23.27 ug/L	99
124) 1,4-dichlorobenzene	16.88	146	107786	22.10 ug/L	100
125) 1,2-dichlorobenzene	17.26	146	109294	22.26 ug/L	99
126) n-butylbenzene	17.16	92	90790	23.14 ug/L	99
127) 1,2-dibromo-3-chloropropan	18.00	157	11319	20.30 ug/L	97
128) 1,3,5-trichlorobenzene	18.22	180	103724	23.07 ug/L	99
129) 1,2,4-trichlorobenzene	18.86	180	86652	22.81 ug/L	98
130) hexachlorobutadiene	19.00	225	52159	23.36 ug/L	98
131) naphthalene	19.14	128	137588	22.63 ug/L	100
132) 1,2,3-trichlorobenzene	19.39	180	71524	22.91 ug/L	98
133) hexachloroethane	17.53	201	39321	23.09 ug/L	98

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

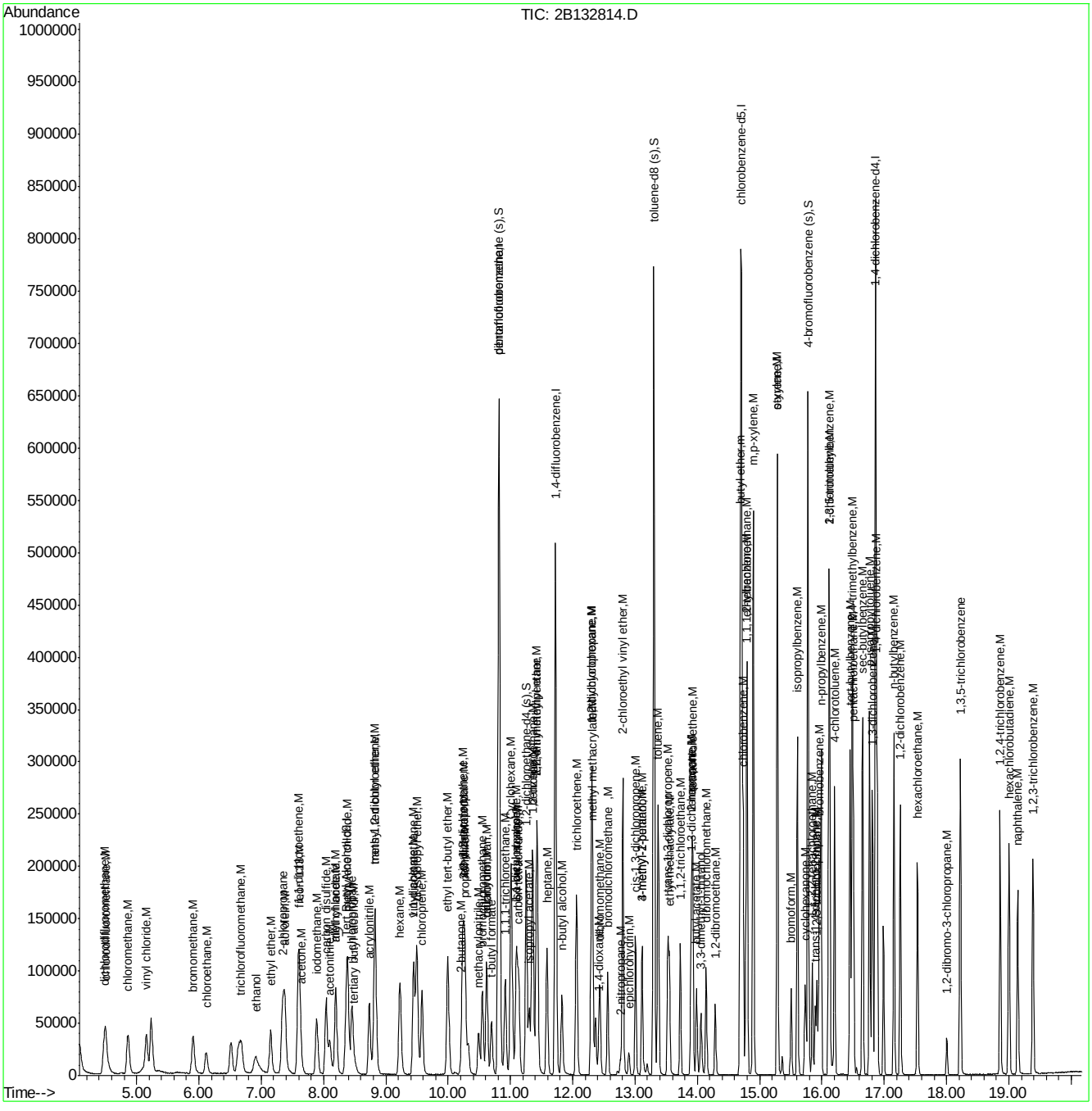
7.2.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132814.D
Acq On : 24 Jul 2015 1:33 pm
Operator : BridgetK
Sample : ic5926-20
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 16:38:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132815.D
Acq On : 24 Jul 2015 2:01 pm
Operator : BridgetK
Sample : icc5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 16:38:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.37	65	96790	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	430540	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.73	114	464110	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	387149	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	211419	50.00	ug/L	0.00

System Monitoring Compounds

51) dibromofluoromethane (s)	10.82	113	141795	49.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.72%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	146080	50.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 100.08%			
82) toluene-d8 (s)	13.30	98	499714	50.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 101.30%			
108) 4-bromofluorobenzene (s)	15.78	95	177786	50.04	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.08%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	8.50	59	56455	255.01	ug/L	92
3) ethanol	6.91	45	107068	4906.29	ug/L	98
4) 1,4-dioxane	12.42	88	26229	1342.64	ug/L	92
9) chlorodifluoromethane	4.49	51	127730	53.29	ug/L	97
10) dichlorodifluoromethane	4.48	85	186548	57.09	ug/L	98
12) chloromethane	4.87	50	175973	55.42	ug/L	98
13) vinyl chloride	5.16	62	160541	54.31	ug/L	98
15) bromomethane	5.90	94	103271	51.09	ug/L	97
16) chloroethane	6.11	64	70942	52.69	ug/L	98
18) trichlorofluoromethane	6.67	101	194335	52.34	ug/L	99
20) ethyl ether	7.15	74	58415	54.93	ug/L	98
21) acrolein	7.38	56	186113	489.19	ug/L	96
22) 2-chloropropane	7.34	43	195928	51.87	ug/L	100
24) 1,1-dichloroethene	7.60	96	102950	55.20	ug/L	99
25) acetone	7.64	43	27549	49.03	ug/L	99
26) allyl chloride	8.20	76	56785	57.41	ug/L	94
27) acetonitrile	8.10	40	62908	538.58	ug/L	97
28) iodomethane	7.89	142	224553	58.19	ug/L	99
29) iso-butyl alcohol	11.10	74	12571	536.94	ug/L #	73
30) carbon disulfide	8.04	76	368383	57.27	ug/L	99
31) methylene chloride	8.38	84	116054	55.11	ug/L	93
32) methyl acetate	8.20	74	16015	51.63	ug/L	91
33) 1-chloropropane	8.45	42	190099	52.43	ug/L	100
34) methyl tert butyl ether	8.82	73	291153	57.77	ug/L	99
35) trans-1,2-dichloroethene	8.83	96	115663	57.07	ug/L	98
36) di-isopropyl ether	9.50	45	351171	54.67	ug/L	98
37) 2-butanone	10.21	72	11753	52.52	ug/L	92
38) 1,1-dichloroethane	9.44	63	201053	57.49	ug/L	99
39) chloroprene	9.58	53	155906	53.50	ug/L	98
40) acrylonitrile	8.74	53	183763	282.11	ug/L	99
41) vinyl acetate	9.45	86	19199	53.39	ug/L	78
42) ethyl tert-butyl ether	9.99	59	315445	54.62	ug/L	100
43) ethyl acetate	10.25	45	13594	55.05	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132815.D
Acq On : 24 Jul 2015 2:01 pm
Operator : BridgetK
Sample : icc5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 16:38:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2-dichloropropane	10.26	77	172226	57.32	ug/L	99
45) cis-1,2-dichloroethene	10.23	96	130138	55.49	ug/L	99
46) propionitrile	10.28	54	133843	550.21	ug/L	99
47) bromochloromethane	10.55	128	66617	56.06	ug/L	98
48) tetrahydrofuran	10.62	42	30604	56.49	ug/L	97
49) chloroform	10.62	83	200629	56.84	ug/L	100
50) t-butyl formate	10.70	59	76251	51.47	ug/L	96
53) freon 113	7.61	151	91372	53.04	ug/L	98
54) methacrylonitrile	10.49	41	60420	52.83	ug/L	99
55) 1,1,1-trichloroethane	10.92	97	178517	57.11	ug/L	99
56) Cyclohexane	11.02	84	158987	55.97	ug/L	98
61) epichlorohydrin	12.90	57	42880	270.07	ug/L	100
62) n-butyl alcohol	11.83	56	116802	2602.11	ug/L	99
63) carbon tetrachloride	11.13	117	159799	57.20	ug/L	99
64) 1,1-dichloropropene	11.10	75	143838	57.63	ug/L	99
65) hexane	9.23	57	150623	56.15	ug/L	99
66) benzene	11.36	78	424113	57.16	ug/L	100
67) 2,2,4-trimethylpentane	11.42	57	356416	51.60	ug/L	99
68) tert-amyl methyl ether	11.43	73	258592	52.61	ug/L	99
69) heptane	11.59	57	76068	50.00	ug/L	96
70) isopropyl acetate	11.30	43	171149	51.05	ug/L	99
71) 1,2-dichloroethane	11.35	62	139893	57.94	ug/L	100
72) trichloroethene	12.06	95	118274	59.46	ug/L	98
74) 2-nitropropane	12.77	41	24670	53.07	ug/L	98
75) 2-chloroethyl vinyl ether	12.80	63	282217	307.64	ug/L	98
76) methyl methacrylate	12.33	100	25064	52.88	ug/L	93
77) 1,2-dichloropropane	12.31	63	109547	57.34	ug/L	98
78) dibromomethane	12.44	93	67688	55.16	ug/L	97
79) methylcyclohexane	12.31	83	176884	51.32	ug/L	99
80) bromodichloromethane	12.56	83	155173	57.45	ug/L	100
81) cis-1,3-dichloropropene	13.01	75	181764	57.63	ug/L	100
83) 4-methyl-2-pentanone	13.11	58	34109	54.85	ug/L #	85
84) toluene	13.37	92	263706	57.59	ug/L	98
85) 3-methyl-1-butanol	13.11	55	68560	1060.19	ug/L	97
86) trans-1,3-dichloropropene	13.53	75	160035	57.91	ug/L	98
87) ethyl methacrylate	13.55	69	121362	57.88	ug/L	99
88) 1,1,2-trichloroethane	13.73	83	79814	57.28	ug/L	96
89) 2-hexanone	13.91	58	28954	51.54	ug/L	94
91) butyl ether	14.69	57	456654	57.45	ug/L	100
92) tetrachloroethene	13.93	164	120598	57.82	ug/L	99
93) 1,3-dichloropropane	13.90	76	154295	58.14	ug/L	100
94) butyl acetate	13.99	56	53376	52.70	ug/L	98
95) 3,3-dimethyl-1-butanol	14.06	57	66793	504.81	ug/L	98
96) dibromochloromethane	14.14	129	130646	55.84	ug/L	99
97) 1,2-dibromoethane	14.29	107	105375	57.07	ug/L	98
98) chlorobenzene	14.73	112	293808	58.24	ug/L	99
99) 1,1,1,2-tetrachloroethane	14.79	131	116465	54.95	ug/L	99
100) ethylbenzene	14.80	91	477102	56.78	ug/L	99
101) m,p-xylene	14.90	106	379924	113.75	ug/L	99
102) o-xylene	15.28	106	198552	57.73	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132815.D
Acq On : 24 Jul 2015 2:01 pm
Operator : BridgetK
Sample : icc5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 16:38:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	332604	57.46 ug/L	99
105) bromoform	15.50	173	98652	55.46 ug/L	100
107) isopropylbenzene	15.61	105	510639	58.64 ug/L	100
109) cyclohexanone	15.73	98	39299	518.70 ug/L	88
110) bromobenzene	15.96	156	152671	57.40 ug/L	100
111) 1,1,2,2-tetrachloroethane	15.84	83	120429	54.69 ug/L	99
112) trans-1,4-dichloro-2-buten	15.89	53	29157	53.34 ug/L	97
113) 1,2,3-trichloropropane	15.92	110	30201	54.18 ug/L	99
114) n-propylbenzene	15.99	91	538969	58.23 ug/L	100
115) 2-chlorotoluene	16.11	126	126690	56.02 ug/L	99
116) 4-chlorotoluene	16.20	91	341211	55.83 ug/L	100
117) 1,3,5-trimethylbenzene	16.12	105	405258	56.72 ug/L	99
118) tert-butylbenzene	16.45	119	372154	59.32 ug/L	99
119) pentachloroethane	16.51	167	95848	56.62 ug/L	96
120) 1,2,4-trimethylbenzene	16.49	105	403383	57.05 ug/L	99
121) sec-butylbenzene	16.65	105	542614	57.76 ug/L	100
122) 1,3-dichlorobenzene	16.81	146	275188	55.87 ug/L	98
123) p-isopropyltoluene	16.76	119	470369	57.96 ug/L	99
124) 1,4-dichlorobenzene	16.89	146	270466	55.88 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	271085	55.65 ug/L	98
126) n-butylbenzene	17.16	92	232084	59.61 ug/L	97
127) 1,2-dibromo-3-chloropropan	18.00	157	29172	48.23 ug/L	97
128) 1,3,5-trichlorobenzene	18.22	180	263007	58.95 ug/L	99
129) 1,2,4-trichlorobenzene	18.86	180	224267	59.51 ug/L	99
130) hexachlorobutadiene	19.00	225	129803	58.59 ug/L	97
131) naphthalene	19.14	128	354432	58.76 ug/L	99
132) 1,2,3-trichlorobenzene	19.39	180	182415	58.89 ug/L	97
133) hexachloroethane	17.53	201	96503	57.12 ug/L	99

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

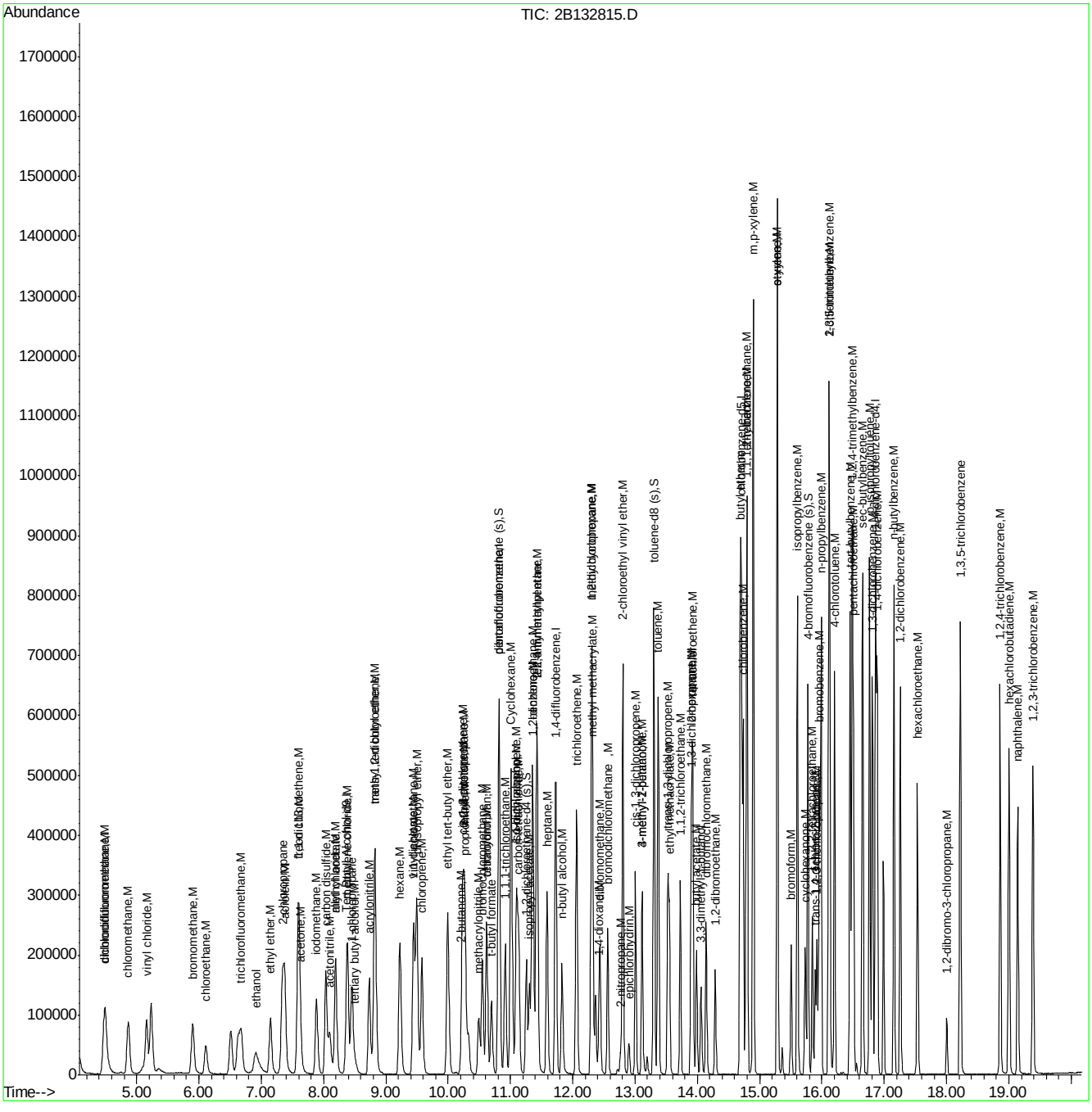
7.7.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132815.D
Acq On : 24 Jul 2015 2:01 pm
Operator : BridgetK
Sample : icc5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 16:38:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132816.D
Acq On : 24 Jul 2015 2:29 pm
Operator : BridgetK
Sample : ic5926-100
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 16:38:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.37	65	99049	500.00	ug/L	0.00
5) pentafluorobenzene	10.81	168	423677	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	464704	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	378515	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	211469	50.00	ug/L	0.00

System Monitoring Compounds						
51) dibromofluoromethane (s)	10.82	113	140568	50.23	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.46%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	144075	50.15	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 100.30%			
82) toluene-d8 (s)	13.30	98	500679	50.68	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 101.36%			
108) 4-bromofluorobenzene (s)	15.78	95	178018	50.10	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.20%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	8.50	59	107815	475.90	ug/L	96
3) ethanol	6.92	45	208600	9340.89	ug/L	99
4) 1,4-dioxane	12.41	88	53794	2690.86	ug/L	97
9) chlorodifluoromethane	4.49	51	265066	112.38	ug/L	96
10) dichlorodifluoromethane	4.48	85	391898	121.88	ug/L	97
12) chloromethane	4.87	50	349316	111.79	ug/L	99
13) vinyl chloride	5.17	62	323038	111.04	ug/L	99
15) bromomethane	5.89	94	200535	100.81	ug/L	98
16) chloroethane	6.10	64	143099	108.00	ug/L	99
18) trichlorofluoromethane	6.66	101	392085	107.32	ug/L	97
20) ethyl ether	7.15	74	118128	112.87	ug/L	98
21) acrolein	7.38	56	368668	984.72	ug/L	100
22) 2-chloropropane	7.34	43	393396	105.83	ug/L	98
24) 1,1-dichloroethene	7.60	96	205914	112.19	ug/L	99
25) acetone	7.63	43	51746	93.58	ug/L	97
26) allyl chloride	8.20	76	112891	115.99	ug/L	94
27) acetonitrile	8.10	40	122822	1068.56	ug/L	98
28) iodomethane	7.89	142	454488	119.68	ug/L	98
29) iso-butyl alcohol	11.10	74	24839	1078.11	ug/L #	82
30) carbon disulfide	8.04	76	741227	117.10	ug/L	100
31) methylene chloride	8.38	84	232932	112.39	ug/L	96
32) methyl acetate	8.20	74	31032	101.66	ug/L	98
33) 1-chloropropane	8.45	42	377035	105.67	ug/L	100
34) methyl tert butyl ether	8.82	73	579048	116.75	ug/L	98
35) trans-1,2-dichloroethene	8.83	96	227802	114.23	ug/L	97
36) di-isopropyl ether	9.50	45	688005	108.85	ug/L	99
37) 2-butanone	10.21	72	23012	104.51	ug/L	96
38) 1,1-dichloroethane	9.44	63	398340	115.74	ug/L	99
39) chloroprene	9.58	53	311044	108.46	ug/L	100
40) acrylonitrile	8.74	53	365023	569.46	ug/L	99
41) vinyl acetate	9.45	86	37718	106.60	ug/L	83
42) ethyl tert-butyl ether	9.99	59	638049	112.28	ug/L	99
43) ethyl acetate	10.25	45	24856	102.29	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132816.D
Acq On : 24 Jul 2015 2:29 pm
Operator : BridgetK
Sample : ic5926-100
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 16:38:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2-dichloropropane	10.26	77	337168	114.04	ug/L	99
45) cis-1,2-dichloroethene	10.23	96	257045	111.38	ug/L	98
46) propionitrile	10.28	54	262208	1095.36	ug/L	99
47) bromochloromethane	10.55	128	132982	113.71	ug/L	94
48) tetrahydrofuran	10.62	42	52050	97.63	ug/L	96
49) chloroform	10.62	83	394924	113.71	ug/L	98
50) t-butyl formate	10.70	59	159809	109.61	ug/L	99
53) freon 113	7.60	151	184839	109.03	ug/L	99
54) methacrylonitrile	10.49	41	120021	106.65	ug/L	99
55) 1,1,1-trichloroethane	10.92	97	361060	117.37	ug/L	98
56) Cyclohexane	11.02	84	324367	116.04	ug/L	96
61) epichlorohydrin	12.90	57	85516	537.92	ug/L	98
62) n-butyl alcohol	11.83	56	241075	5363.80	ug/L	99
63) carbon tetrachloride	11.13	117	322718	115.38	ug/L	100
64) 1,1-dichloropropene	11.10	75	286156	114.49	ug/L	100
65) hexane	9.22	57	307736	114.57	ug/L	98
66) benzene	11.36	78	840942	113.19	ug/L	100
67) 2,2,4-trimethylpentane	11.42	57	719504	104.03	ug/L	99
68) tert-amyl methyl ether	11.43	73	518779	105.40	ug/L	99
69) heptane	11.59	57	156318	102.61	ug/L	98
70) isopropyl acetate	11.30	43	345078	102.80	ug/L	99
71) 1,2-dichloroethane	11.35	62	274587	113.59	ug/L	98
72) trichloroethene	12.06	95	237520	119.27	ug/L	99
74) 2-nitropropane	12.77	41	49822	107.05	ug/L	98
75) 2-chloroethyl vinyl ether	12.80	63	523826	570.28	ug/L	99
76) methyl methacrylate	12.33	100	50963	107.39	ug/L	94
77) 1,2-dichloropropane	12.31	63	220019	115.02	ug/L	96
78) dibromomethane	12.43	93	135339	110.14	ug/L	99
79) methylcyclohexane	12.31	83	363727	105.39	ug/L	100
80) bromodichloromethane	12.56	83	309675	114.50	ug/L	99
81) cis-1,3-dichloropropene	13.01	75	363695	115.17	ug/L	98
83) 4-methyl-2-pentanone	13.11	58	67382	108.21	ug/L	94
84) toluene	13.37	92	531496	115.92	ug/L	99
85) 3-methyl-1-butanol	13.11	55	136956	2115.13	ug/L	96
86) trans-1,3-dichloropropene	13.53	75	322359	116.50	ug/L	99
87) ethyl methacrylate	13.55	69	245199	116.79	ug/L	99
88) 1,1,2-trichloroethane	13.73	83	159033	114.00	ug/L	97
89) 2-hexanone	13.91	58	60398	107.37	ug/L	97
91) butyl ether	14.69	57	909806	117.08	ug/L	100
92) tetrachloroethene	13.93	164	235997	115.74	ug/L	99
93) 1,3-dichloropropane	13.90	76	305296	117.67	ug/L	100
94) butyl acetate	13.99	56	105507	106.54	ug/L	99
95) 3,3-dimethyl-1-butanol	14.06	57	138236	1068.59	ug/L	96
96) dibromochloromethane	14.14	129	265188	115.93	ug/L	99
97) 1,2-dibromoethane	14.29	107	210850	116.81	ug/L	98
98) chlorobenzene	14.73	112	581720	117.94	ug/L	98
99) 1,1,1,2-tetrachloroethane	14.79	131	234402	113.11	ug/L	98
100) ethylbenzene	14.80	91	937991	114.17	ug/L	98
101) m,p-xylene	14.90	106	760566	232.92	ug/L	97
102) o-xylene	15.28	106	393398	117.00	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132816.D
Acq On : 24 Jul 2015 2:29 pm
Operator : BridgetK
Sample : ic5926-100
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 16:38:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	653124	115.40 ug/L	99
105) bromoform	15.50	173	201465	115.84 ug/L	100
107) isopropylbenzene	15.61	105	1001991	115.03 ug/L	99
109) cyclohexanone	15.73	98	67752	845.72 ug/L	89
110) bromobenzene	15.96	156	305020	114.66 ug/L	99
111) 1,1,2,2-tetrachloroethane	15.84	83	239814	108.89 ug/L	99
112) trans-1,4-dichloro-2-buten	15.89	53	57861	105.82 ug/L	94
113) 1,2,3-trichloropropane	15.92	110	61375	110.08 ug/L	100
114) n-propylbenzene	15.99	91	1050021	113.43 ug/L	99
115) 2-chlorotoluene	16.11	126	257379	113.78 ug/L	98
116) 4-chlorotoluene	16.20	91	684736	112.02 ug/L	99
117) 1,3,5-trimethylbenzene	16.12	105	795756	111.35 ug/L	99
118) tert-butylbenzene	16.45	119	748778	119.32 ug/L	99
119) pentachloroethane	16.51	167	191091	112.86 ug/L	99
120) 1,2,4-trimethylbenzene	16.49	105	785821	111.12 ug/L	99
121) sec-butylbenzene	16.65	105	1089948	116.00 ug/L	100
122) 1,3-dichlorobenzene	16.81	146	546364	110.90 ug/L	98
123) p-isopropyltoluene	16.76	119	931637	114.77 ug/L	100
124) 1,4-dichlorobenzene	16.89	146	544069	112.39 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	542111	111.26 ug/L	98
126) n-butylbenzene	17.16	92	465510	119.53 ug/L	97
127) 1,2-dibromo-3-chloropropan	18.00	157	60756	97.37 ug/L	98
128) 1,3,5-trichlorobenzene	18.22	180	527218	118.14 ug/L	100
129) 1,2,4-trichlorobenzene	18.86	180	458079	121.51 ug/L	99
130) hexachlorobutadiene	19.00	225	255245	115.18 ug/L	99
131) naphthalene	19.14	128	708767	117.47 ug/L	100
132) 1,2,3-trichlorobenzene	19.39	180	371522	119.91 ug/L	97
133) hexachloroethane	17.53	201	202176	119.64 ug/L	97

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

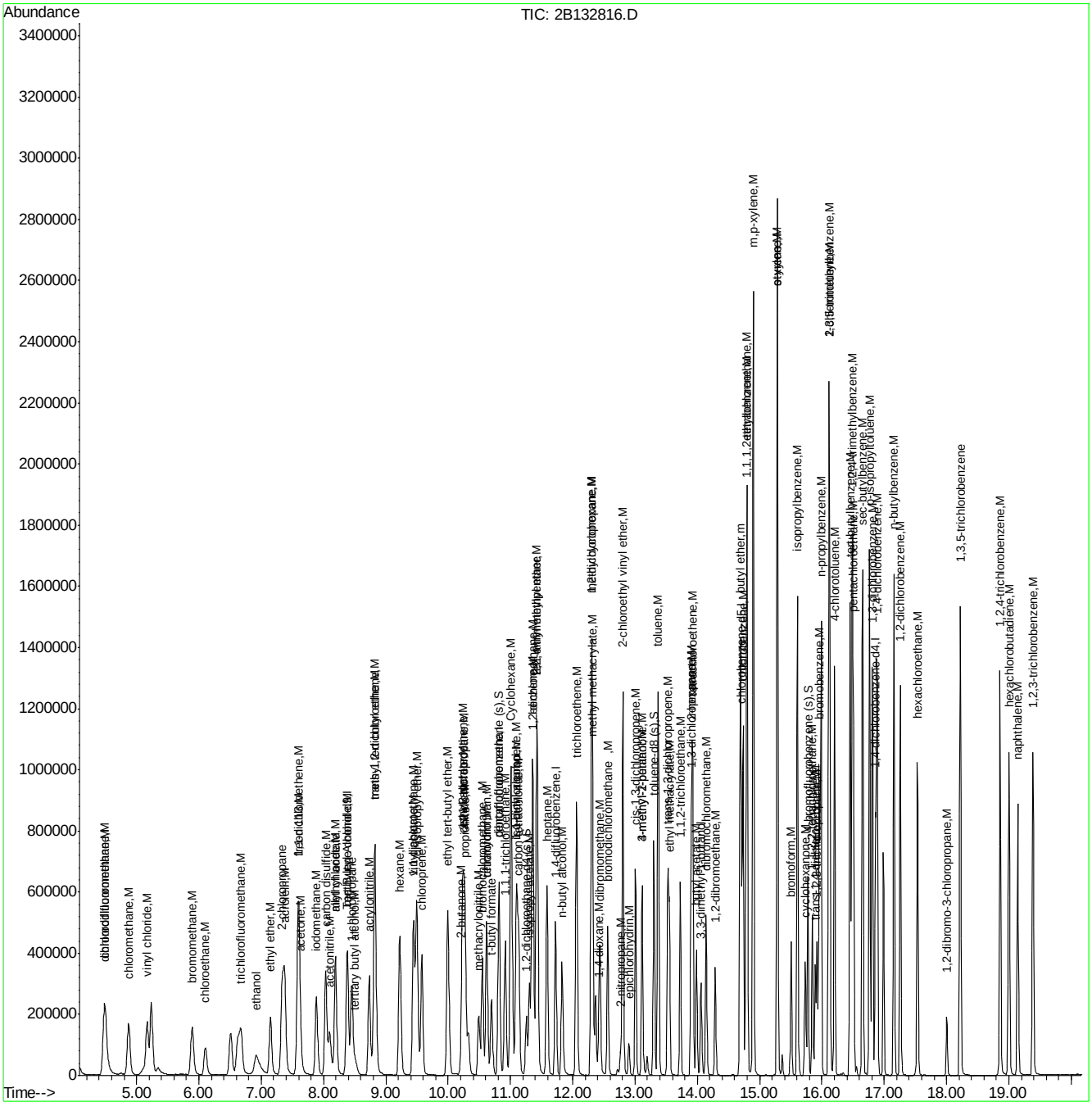
7.7.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132816.D
Acq On : 24 Jul 2015 2:29 pm
Operator : BridgetK
Sample : ic5926-100
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 16:38:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132817.D
Acq On : 24 Jul 2015 2:57 pm
Operator : BridgetK
Sample : ic5926-200
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 29 16:39:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.38	65	104866	500.00	ug/L	0.02
5) pentafluorobenzene	10.81	168	422714	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.72	114	468081	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	362754	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	213604	50.00	ug/L	0.00

System Monitoring Compounds						
51) dibromofluoromethane (s)	10.82	113	141548	50.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.38%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	144970	50.58	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.16%			
82) toluene-d8 (s)	13.30	98	498581	50.10	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 100.20%			
108) 4-bromofluorobenzene (s)	15.78	95	174574	48.64	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 97.28%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	8.51	59	223140	930.32	ug/L	91
3) ethanol	6.94	45	378376	16003.42	ug/L	98
4) 1,4-dioxane	12.41	88	118559	5601.54	ug/L	99
9) chlorodifluoromethane	4.50	51	573720	243.80	ug/L	98
10) dichlorodifluoromethane	4.48	85	840733	262.07	ug/L	99
12) chloromethane	4.88	50	738975	237.04	ug/L	99
13) vinyl chloride	5.18	62	696337	239.91	ug/L	98
15) bromomethane	5.88	94	303982	153.17	ug/L	99
16) chloroethane	6.08	64	301785	228.28	ug/L	98
18) trichlorofluoromethane	6.66	101	864607	237.19	ug/L	97
20) ethyl ether	7.15	74	263363	252.22	ug/L	99
21) acrolein	7.38	56	798504	2137.69	ug/L	100
22) 2-chloropropane	7.33	43	850553	229.34	ug/L	98
24) 1,1-dichloroethene	7.59	96	447937	244.62	ug/L	96
25) acetone	7.64	43	110304	199.94	ug/L	99
26) allyl chloride	8.19	76	255443	263.05	ug/L	94
27) acetonitrile	8.11	40	257521	2245.56	ug/L	99
28) iodomethane	7.89	142	1001632	264.37	ug/L	100
29) iso-butyl alcohol	11.09	74	54911	2388.79	ug/L #	79
30) carbon disulfide	8.03	76	1586204	251.16	ug/L	99
31) methylene chloride	8.38	84	509610	246.46	ug/L	97
32) methyl acetate	8.19	74	68899	226.22	ug/L	93
33) 1-chloropropane	8.45	42	821329	230.71	ug/L	98
34) methyl tert butyl ether	8.82	73	1239329	250.45	ug/L	97
35) trans-1,2-dichloroethene	8.82	96	491369	246.95	ug/L	99
36) di-isopropyl ether	9.50	45	1457614	231.13	ug/L	98
37) 2-butanone	10.21	72	49479	225.21	ug/L	88
38) 1,1-dichloroethane	9.44	63	864459	251.75	ug/L	100
39) chloroprene	9.57	53	672856	235.17	ug/L	100
40) acrylonitrile	8.74	53	792550	1239.25	ug/L	98
41) vinyl acetate	9.45	86	83215	235.72	ug/L	80
42) ethyl tert-butyl ether	10.00	59	1405563	247.90	ug/L	98
43) ethyl acetate	10.26	45	57501	237.17	ug/L	74

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132817.D
Acq On : 24 Jul 2015 2:57 pm
Operator : BridgetK
Sample : ic5926-200
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 29 16:39:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 2,2-dichloropropane	10.26	77	714053	242.07 ug/L	98
45) cis-1,2-dichloroethene	10.23	96	561128	243.70 ug/L	96
46) propionitrile	10.28	54	557845	2335.67 ug/L	99
47) bromochloromethane	10.55	128	293396	251.45 ug/L	96
48) tetrahydrofuran	10.62	42	110977	208.63 ug/L	96
49) chloroform	10.62	83	852376	245.98 ug/L	99
50) t-butyl formate	10.70	59	358126	246.19 ug/L	97
53) freon 113	7.60	151	404051	238.88 ug/L	98
54) methacrylonitrile	10.49	41	260658	232.15 ug/L	97
55) 1,1,1-trichloroethane	10.92	97	793745	258.61 ug/L	98
56) Cyclohexane	11.02	84	701658	251.59 ug/L	93
61) epichlorohydrin	12.90	57	190768	1191.33 ug/L	100
62) n-butyl alcohol	11.83	56	535531	11829.33 ug/L	98
63) carbon tetrachloride	11.13	117	697947	247.73 ug/L	99
64) 1,1-dichloropropene	11.10	75	627165	249.13 ug/L	98
65) hexane	9.22	57	680779	251.63 ug/L	96
66) benzene	11.36	78	1821021	243.34 ug/L	100
67) 2,2,4-trimethylpentane	11.42	57	1527885	219.32 ug/L	99
68) tert-amyl methyl ether	11.43	73	1144415	230.84 ug/L	98
69) heptane	11.59	57	343249	223.70 ug/L	99
70) isopropyl acetate	11.30	43	760462	224.91 ug/L	97
71) 1,2-dichloroethane	11.35	62	591672	243.00 ug/L	99
72) trichloroethene	12.06	95	515395	256.93 ug/L	100
74) 2-nitropropane	12.77	41	110006	234.65 ug/L	99
75) 2-chloroethyl vinyl ether	12.80	63	1077718	1164.84 ug/L	99
76) methyl methacrylate	12.33	100	110008	230.15 ug/L	96
77) 1,2-dichloropropane	12.30	63	471321	244.62 ug/L	98
78) dibromomethane	12.43	93	295435	238.69 ug/L	98
79) methylcyclohexane	12.31	83	769593	221.37 ug/L	98
80) bromodichloromethane	12.56	83	677365	248.65 ug/L	99
81) cis-1,3-dichloropropene	13.01	75	786471	247.24 ug/L	99
83) 4-methyl-2-pentanone	13.11	58	147062	234.47 ug/L #	85
84) toluene	13.37	92	1152671	249.58 ug/L	96
85) 3-methyl-1-butanol	13.12	55	299200	4587.47 ug/L	98
86) trans-1,3-dichloropropene	13.53	75	705875	253.27 ug/L	98
87) ethyl methacrylate	13.55	69	520993	246.36 ug/L	99
88) 1,1,2-trichloroethane	13.73	83	345572	245.92 ug/L	98
89) 2-hexanone	13.91	58	127322	224.70 ug/L	96
91) butyl ether	14.69	57	1932516	259.49 ug/L	99
92) tetrachloroethene	13.93	164	496778	254.21 ug/L	99
93) 1,3-dichloropropane	13.90	76	655623	263.67 ug/L	98
94) butyl acetate	13.99	56	232177	244.63 ug/L	97
95) 3,3-dimethyl-1-butanol	14.06	57	307771	2482.50 ug/L	96
96) dibromochloromethane	14.14	129	575045	262.32 ug/L	99
97) 1,2-dibromoethane	14.29	107	458585	265.08 ug/L	98
98) chlorobenzene	14.73	112	1240970	262.53 ug/L	98
99) 1,1,1,2-tetrachloroethane	14.79	131	514491	259.06 ug/L	98
100) ethylbenzene	14.80	91	1981578	251.68 ug/L	97
101) m,p-xylene	14.90	106	1641205	524.44 ug/L	95
102) o-xylene	15.28	106	852042	264.41 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132817.D
Acq On : 24 Jul 2015 2:57 pm
Operator : BridgetK
Sample : ic5926-200
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 29 16:39:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	1391371	256.52 ug/L	99
105) bromoform	15.50	173	444296	266.57 ug/L	100
107) isopropylbenzene	15.61	105	2138197	243.02 ug/L	97
109) cyclohexanone	15.73	98	157208	1856.14 ug/L	89
110) bromobenzene	15.96	156	659412	245.39 ug/L	99
111) 1,1,2,2-tetrachloroethane	15.85	83	516764	232.29 ug/L	99
112) trans-1,4-dichloro-2-buten	15.89	53	127636	231.11 ug/L	97
113) 1,2,3-trichloropropane	15.92	110	130709	232.09 ug/L	100
114) n-propylbenzene	15.99	91	2221938	237.62 ug/L	98
115) 2-chlorotoluene	16.11	126	561125	245.57 ug/L	95
116) 4-chlorotoluene	16.20	91	1469560	238.01 ug/L	98
117) 1,3,5-trimethylbenzene	16.12	105	1700223	235.54 ug/L	98
118) tert-butylbenzene	16.45	119	1620272	255.62 ug/L	99
119) pentachloroethane	16.51	167	423547	247.64 ug/L	98
120) 1,2,4-trimethylbenzene	16.49	105	1661553	232.60 ug/L	98
121) sec-butylbenzene	16.65	105	2297124	242.04 ug/L	99
122) 1,3-dichlorobenzene	16.81	146	1178672	236.85 ug/L	97
123) p-isopropyltoluene	16.76	119	1975041	240.88 ug/L	98
124) 1,4-dichlorobenzene	16.89	146	1196564	244.71 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	1165627	236.84 ug/L	98
126) n-butylbenzene	17.16	92	1008722	256.42 ug/L	95
127) 1,2-dibromo-3-chloropropan	18.00	157	133989	209.25 ug/L	98
128) 1,3,5-trichlorobenzene	18.22	180	1104572	245.03 ug/L	99
129) 1,2,4-trichlorobenzene	18.86	180	955980	251.06 ug/L	99
130) hexachlorobutadiene	19.00	225	536317	239.59 ug/L	98
131) naphthalene	19.14	128	1450818	238.05 ug/L	99
132) 1,2,3-trichlorobenzene	19.39	180	753974	240.92 ug/L	96
133) hexachloroethane	17.53	201	470722	275.76 ug/L	97

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

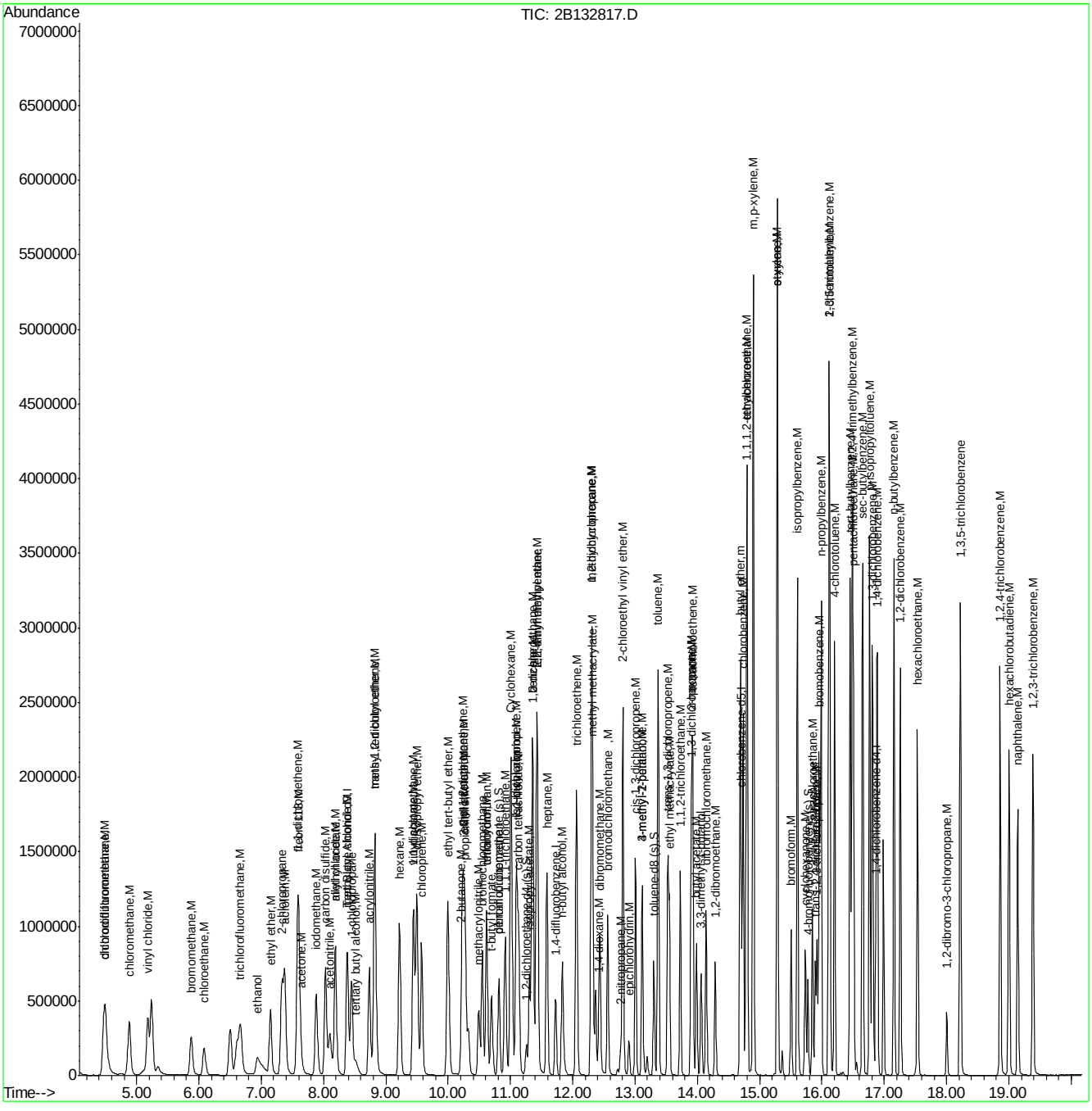
7.7.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132817.D
Acq On : 24 Jul 2015 2:57 pm
Operator : BridgetK
Sample : ic5926-200
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 29 16:39:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Jul 23 09:49:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132820.D
Acq On : 24 Jul 2015 4:23 pm
Operator : BridgetK
Sample : icv5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 16:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.37	65	100798	500.00	ug/L	0.00
5) pentafluorobenzene	10.82	168	435253	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.73	114	468427	50.00	ug/L	0.00
90) chlorobenzene-d5	14.71	117	388737	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.86	152	211629	50.00	ug/L	0.00

System Monitoring Compounds						
51) dibromofluoromethane (s)	10.82	113	143519	49.71	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 99.42%			
52) 1,2-dichloroethane-d4 (s)	11.26	65	147457	49.62	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.24%			
82) toluene-d8 (s)	13.30	98	496315	49.75	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.50%			
108) 4-bromofluorobenzene (s)	15.78	95	177757	50.04	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 100.08%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	8.50	59	59202	251.94	ug/L	99
3) ethanol	6.92	45	116211	4805.75	ug/L	96
4) 1,4-dioxane	12.42	88	27039	1304.91	ug/L	92
9) chlorodifluoromethane	4.50	51	115594	45.36	ug/L	99
10) dichlorodifluoromethane	4.49	85	149605	39.32	ug/L	98
12) chloromethane	4.87	50	158867	45.09	ug/L	98
13) vinyl chloride	5.17	62	153194	48.08	ug/L	98
15) bromomethane	5.90	94	102553	46.11	ug/L	98
16) chloroethane	6.11	64	79333	55.07	ug/L	97
18) trichlorofluoromethane	6.68	101	180868	46.65	ug/L	99
20) ethyl ether	7.15	74	61316	50.58	ug/L	96
21) acrolein	7.38	56	211281	550.80	ug/L	98
22) 2-chloropropane	7.34	43	199883	47.02	ug/L	98
24) 1,1-dichloroethene	7.60	96	103156	49.15	ug/L	95
25) acetone	7.64	43	30353	49.82	ug/L	98
26) allyl chloride	8.20	76	63388	56.04	ug/L	96
27) acetonitrile	8.10	40	61369	470.85	ug/L	98
28) iodomethane	7.89	142	228181	50.08	ug/L	99
29) iso-butyl alcohol	11.09	74	13093	515.19	ug/L #	48
30) carbon disulfide	8.04	76	382742	50.91	ug/L	99
31) methylene chloride	8.38	84	118886	49.36	ug/L	96
32) methyl acetate	8.19	74	15042	45.87	ug/L #	87
33) 1-chloropropane	8.46	42	199956	49.85	ug/L	99
34) methyl tert butyl ether	8.82	73	573172	98.84	ug/L	94
35) trans-1,2-dichloroethene	8.83	96	112026	47.59	ug/L	99
36) di-isopropyl ether	9.50	45	351474	50.00	ug/L	97
37) 2-butanone	10.21	72	11833	52.28	ug/L	95
38) 1,1-dichloroethane	9.44	63	206770	52.76	ug/L	99
39) chloroprene	9.58	53	161677	51.61	ug/L	98
40) acrylonitrile	8.74	53	187736	254.81	ug/L	99
41) vinyl acetate	9.46	86	20260	52.75	ug/L	92
42) ethyl tert-butyl ether	10.00	59	317467	51.50	ug/L	99
43) ethyl acetate	10.25	45	14121	54.44	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132820.D
Acq On : 24 Jul 2015 4:23 pm
Operator : BridgetK
Sample : icv5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 16:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2-dichloropropane	10.26	77	174324	50.10	ug/L	99
45) cis-1,2-dichloroethene	10.23	96	129561	49.67	ug/L	99
46) propionitrile	10.28	54	130316	491.76	ug/L	99
47) bromochloromethane	10.55	128	66952	51.03	ug/L	96
48) tetrahydrofuran	10.62	42	31449	55.81	ug/L	97
49) chloroform	10.62	83	202443	50.16	ug/L	98
50) t-butyl formate	10.70	59	81345	53.99	ug/L	98
53) freon 113	7.61	151	98800	53.12	ug/L	99
54) methacrylonitrile	10.49	41	60787	50.70	ug/L	98
55) 1,1,1-trichloroethane	10.92	97	182052	52.03	ug/L	99
56) Cyclohexane	11.02	84	164119	52.05	ug/L	97
61) epichlorohydrin	12.90	57	44946	265.64	ug/L	97
62) n-butyl alcohol	11.83	56	119648	2670.79	ug/L	98
63) carbon tetrachloride	11.14	117	162877	50.10	ug/L	96
64) 1,1-dichloropropene	11.10	75	148867	51.16	ug/L	99
65) hexane	9.22	57	130352	43.08	ug/L	96
66) benzene	11.36	78	431590	50.58	ug/L	100
67) 2,2,4-trimethylpentane	11.42	57	354781	49.85	ug/L	99
68) tert-amyl methyl ether	11.43	73	263797	49.21	ug/L	100
69) heptane	11.59	57	81747	54.85	ug/L	98
70) isopropyl acetate	11.30	43	172055	49.90	ug/L	99
71) 1,2-dichloroethane	11.35	62	141654	51.84	ug/L	99
72) trichloroethene	12.06	95	118854	51.06	ug/L	99
74) 2-nitropropane	12.77	41	24046	47.34	ug/L	97
75) 2-chloroethyl vinyl ether	12.80	63	286160	270.41	ug/L	99
76) methyl methacrylate	12.33	100	26421	52.89	ug/L	94
77) 1,2-dichloropropane	12.31	63	109730	51.06	ug/L	98
78) dibromomethane	12.44	93	67156	50.00	ug/L	100
79) methylcyclohexane	12.31	83	180142	52.21	ug/L	100
80) bromodichloromethane	12.56	83	155868	51.01	ug/L	99
81) cis-1,3-dichloropropene	13.01	75	182397	51.35	ug/L	99
83) 4-methyl-2-pentanone	13.12	58	35131	51.24	ug/L	98
84) toluene	13.37	92	262147	47.87	ug/L	100
85) 3-methyl-1-butanol	13.11	55	68805	1030.06	ug/L	98
86) trans-1,3-dichloropropene	13.53	75	154571	50.17	ug/L	99
87) ethyl methacrylate	13.55	69	122331	52.32	ug/L	98
88) 1,1,2-trichloroethane	13.73	83	81115	51.89	ug/L	98
89) 2-hexanone	13.91	58	30182	52.90	ug/L	96
91) n-butyl ether	14.69	57	447010	51.62	ug/L	100
92) tetrachloroethene	13.93	164	121155	51.97	ug/L	99
93) 1,3-dichloropropane	13.90	76	152520	50.33	ug/L	98
94) butyl acetate	13.99	56	54104	51.02	ug/L	96
95) 3,3-dimethyl-1-butanol	14.06	57	63759	479.22	ug/L	98
96) dibromochloromethane	14.14	129	130820	50.50	ug/L	100
97) 1,2-dibromoethane	14.29	107	107489	52.59	ug/L	100
98) chlorobenzene	14.73	112	295076	51.28	ug/L	99
99) 1,1,1,2-tetrachloroethane	14.79	131	115690	49.49	ug/L	98
100) ethylbenzene	14.80	91	472725	50.80	ug/L	99
101) m,p-xylene	14.90	106	380887	103.21	ug/L	98
102) o-xylene	15.28	106	203574	52.41	ug/L	96

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ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132820.D
Acq On : 24 Jul 2015 4:23 pm
Operator : BridgetK
Sample : icv5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 16:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) styrene	15.28	104	334237	53.60 ug/L	99
105) bromoform	15.50	173	97304	52.00 ug/L	99
107) isopropylbenzene	15.61	105	498431	52.06 ug/L	99
109) cyclohexanone	15.73	98	35500	508.29 ug/L	99
110) bromobenzene	15.96	156	153931	53.31 ug/L	98
111) 1,1,2,2-tetrachloroethane	15.84	83	116599	51.02 ug/L	99
112) trans-1,4-dichloro-2-buten	15.89	53	28844	51.51 ug/L	98
113) 1,2,3-trichloropropane	15.92	110	30740	51.77 ug/L	95
114) n-propylbenzene	15.99	91	557619	54.54 ug/L	100
115) 2-chlorotoluene	16.11	126	127413	51.76 ug/L	96
116) 4-chlorotoluene	16.20	91	342638	52.18 ug/L	99
117) 1,3,5-trimethylbenzene	16.12	105	400328	51.63 ug/L	99
118) tert-butylbenzene	16.45	119	361520	51.80 ug/L	98
119) pentachloroethane	16.51	167	95901	50.35 ug/L	98
120) 1,2,4-trimethylbenzene	16.49	105	416008	54.96 ug/L	99
121) sec-butylbenzene	16.65	105	535197	51.95 ug/L	100
122) 1,3-dichlorobenzene	16.81	146	273830	50.77 ug/L	100
123) p-isopropyltoluene	16.76	119	465679	51.76 ug/L	99
124) 1,4-dichlorobenzene	16.88	146	269760	50.85 ug/L	98
125) 1,2-dichlorobenzene	17.26	146	277030	53.69 ug/L	97
126) n-butylbenzene	17.16	92	236702	54.38 ug/L	99
127) 1,2-dibromo-3-chloropropan	18.00	157	29844	53.08 ug/L	95
128) 1,3,5-trichlorobenzene	18.22	180	269563	54.44 ug/L	99
129) 1,2,4-trichlorobenzene	18.86	180	229751	56.23 ug/L	98
130) hexachlorobutadiene	19.00	225	126605	50.36 ug/L	97
131) naphthalene	19.14	128	353932	55.65 ug/L	100
132) 1,2,3-trichlorobenzene	19.39	180	185225	54.78 ug/L	99
133) hexachloroethane	17.53	201	96953	50.06 ug/L	98

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

7.7.11

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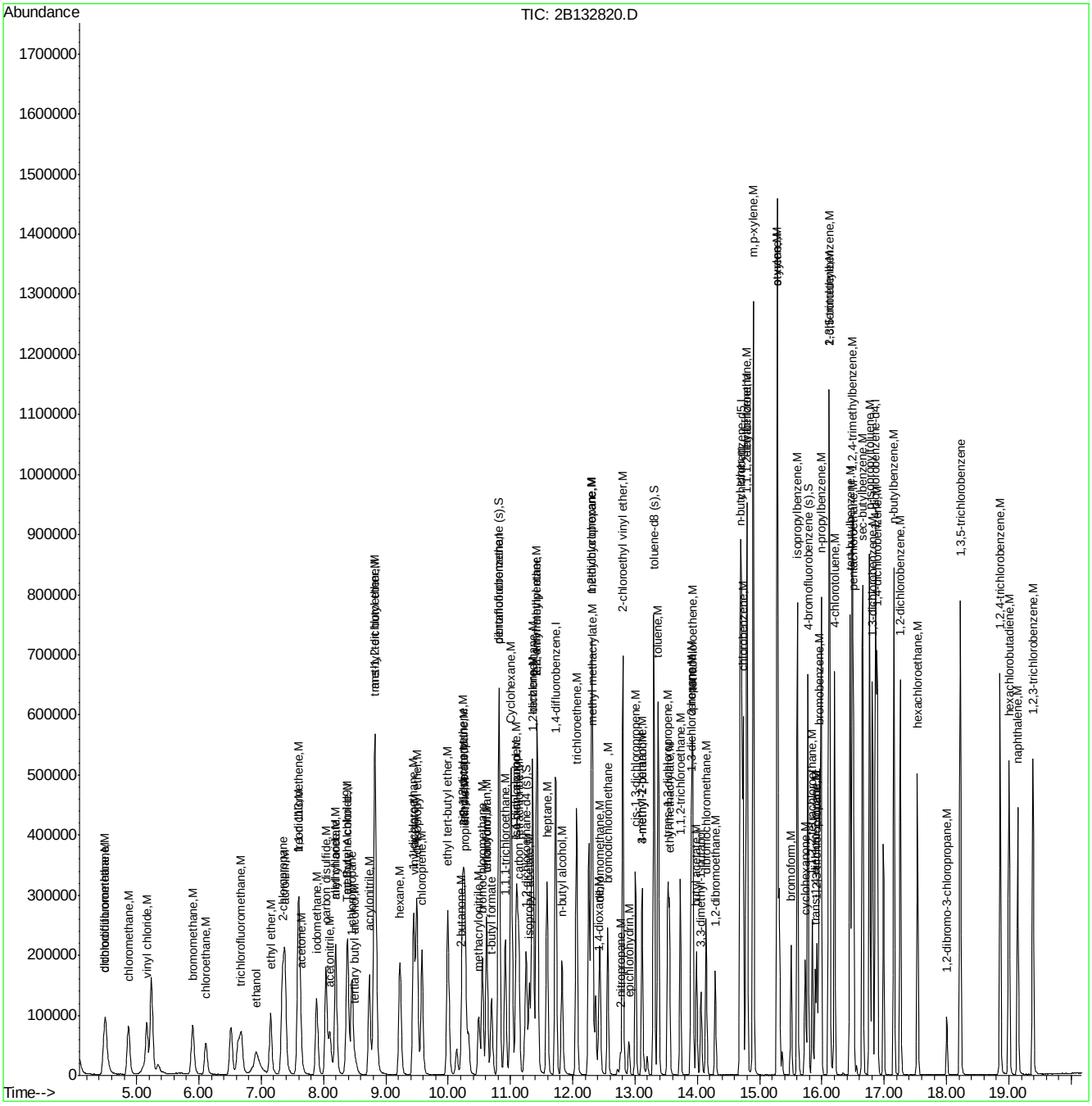
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2B132820.D
Acq On : 24 Jul 2015 4:23 pm
Operator : BridgetK
Sample : icv5926-50
Misc : ms88284,v2B5926,w,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 16:45:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134298.D
Acq On : 10 Sep 2015 9:41 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 14:35:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	123466	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	551317	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	563631	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	492257	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	256379	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	187581	51.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 102.58%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	190651	50.65	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 101.30%			
82) toluene-d8 (s)	13.302	98	637851	53.14	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 106.28%			
108) 4-bromofluorobenzene (s)	15.771	95	222000	51.59	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.484	59	22275	77.39	ug/L	67
3) ethanol	6.895	45	47491	1603.36	ug/L	97
4) 1,4-dioxane	12.411	88	12485	491.91	ug/L	89
9) chlorodifluoromethane	4.494	51	59558	18.45	ug/L	98
10) dichlorodifluoromethane	4.483	85	95136	19.74	ug/L	98
12) chloromethane	4.855	50	88388	19.81	ug/L	98
13) vinyl chloride	5.165	62	84349	20.90	ug/L	94
15) bromomethane	5.899	94	59465	21.11	ug/L	99
16) chloroethane	6.108	64	39780	21.80	ug/L	97
18) trichlorofluoromethane	6.680	101	106342	21.65	ug/L	98
20) ethyl ether	7.141	74	31011	20.20	ug/L	93
21) acrolein	7.372	56	96464	198.54	ug/L	95
22) 2-chloropropane	7.330	43	98445	18.28	ug/L	98
24) 1,1-dichloroethene	7.597	96	52198	19.64	ug/L	92
25) acetone	7.634	43	14561	18.87	ug/L	94
26) allyl chloride	8.190	76	26419	18.44	ug/L	92
27) acetonitrile	8.096	40	27684	167.69	ug/L	98
28) iodomethane	7.881	142	107749	18.67	ug/L	99
29) iso-butyl alcohol	11.089	74	6136	190.61	ug/L #	77
30) carbon disulfide	8.033	76	195742	20.55	ug/L	97
31) methylene chloride	8.379	84	63001	20.65	ug/L	88
32) methyl acetate	8.185	74	10442	25.14	ug/L #	82
33) 1-chloropropane	8.452	42	86397	17.00	ug/L	94
34) methyl tert butyl ether	8.814	73	140103	19.07	ug/L	97
35) trans-1,2-dichloroethene	8.824	96	60427	20.27	ug/L	99
36) di-isopropyl ether	9.490	45	151307	16.99	ug/L	97
37) 2-butanone	10.198	72	5136	17.91	ug/L #	86
38) 1,1-dichloroethane	9.438	63	100661	20.28	ug/L	98
39) chloroprene	9.574	53	71307	17.97	ug/L	96
40) acrylonitrile	8.730	53	88422	94.75	ug/L	97
41) vinyl acetate	9.448	86	5257	10.81	ug/L	88
42) ethyl tert-butyl ether	9.988	59	137820	17.65	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134298.D
Acq On : 10 Sep 2015 9:41 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 14:35:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.250	45	5968	18.17	ug/L		59
44)	2,2-dichloropropane	10.256	77	88203	20.01	ug/L		97
45)	cis-1,2-dichloroethene	10.229	96	63814	19.31	ug/L		98
46)	propionitrile	10.271	54	67722	201.76	ug/L		98
47)	bromochloromethane	10.544	128	35729	21.50	ug/L		97
48)	tetrahydrofuran	10.617	42	10377	14.54	ug/L		91
49)	chloroform	10.612	83	102583	20.07	ug/L		99
50)	t-butyl formate	10.696	59	31363	16.43	ug/L		92
53)	freon 113	7.613	151	52492	22.28	ug/L		98
54)	methacrylonitrile	10.486	41	24399	16.07	ug/L		94
55)	1,1,1-trichloroethane	10.911	97	87971	19.85	ug/L		97
56)	Cyclohexane	11.011	84	81102	20.31	ug/L		90
61)	epichlorohydrin	12.898	57	18946	93.06	ug/L		95
62)	n-butyl alcohol	11.823	56	53255	987.96	ug/L		97
63)	carbon tetrachloride	11.126	117	83397	21.32	ug/L		99
64)	1,1-dichloropropene	11.095	75	71252	20.35	ug/L		98
65)	hexane	9.223	57	56958	15.64	ug/L		93
66)	benzene	11.357	78	216439	21.08	ug/L		99
67)	2,2,4-trimethylpentane	11.420	57	179498	20.96	ug/L		96
68)	tert-amyl methyl ether	11.425	73	129669	20.10	ug/L		94
69)	heptane	11.582	57	34143	19.04	ug/L		94
70)	isopropyl acetate	11.299	43	67906	16.37	ug/L		98
71)	1,2-dichloroethane	11.341	62	69298	21.08	ug/L		99
72)	trichloroethene	12.054	95	55968	19.98	ug/L		95
74)	2-nitropropane	12.762	41	10151	16.61	ug/L		99
75)	2-chloroethyl vinyl ether	12.804	63	117307	92.13	ug/L		98
76)	methyl methacrylate	12.321	100	11991	19.95	ug/L	#	88
77)	1,2-dichloropropane	12.300	63	51882	20.06	ug/L		95
78)	dibromomethane	12.432	93	35045	21.68	ug/L		98
79)	methylcyclohexane	12.306	83	86361	20.80	ug/L		98
80)	bromodichloromethane	12.557	83	74763	20.33	ug/L		97
81)	cis-1,3-dichloropropene	13.003	75	79996	18.72	ug/L		93
83)	4-methyl-2-pentanone	13.113	58	15316	18.57	ug/L		89
84)	toluene	13.370	92	125345	19.02	ug/L		98
85)	3-methyl-1-butanol	13.113	55	32853	408.76	ug/L		91
86)	trans-1,3-dichloropropene	13.527	75	69623	18.78	ug/L		95
87)	ethyl methacrylate	13.548	69	51704	18.38	ug/L		96
88)	1,1,2-trichloroethane	13.727	83	38904	20.69	ug/L		98
89)	2-hexanone	13.910	58	11654	16.97	ug/L		91
91)	n-butyl ether	14.686	57	178044	16.24	ug/L		99
92)	tetrachloroethene	13.921	164	60304	20.43	ug/L		98
93)	1,3-dichloropropane	13.900	76	70695	18.42	ug/L		95
94)	butyl acetate	13.989	56	22951	17.09	ug/L		88
95)	3,3-dimethyl-1-butanol	14.057	57	27317	162.14	ug/L		94
96)	dibromochloromethane	14.141	129	64312	19.61	ug/L		99
97)	1,2-dibromoethane	14.288	107	48674	18.80	ug/L		95
98)	chlorobenzene	14.733	112	144553	19.84	ug/L		97
99)	1,1,1,2-tetrachloroethane	14.786	131	59384	20.06	ug/L		99
100)	ethylbenzene	14.796	91	224199	19.03	ug/L		98
101)	m,p-xylene	14.896	106	184677	39.52	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134298.D
Acq On : 10 Sep 2015 9:41 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 14:35:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	93225	18.95 ug/L	98
103) styrene	15.284	104	148217	18.77 ug/L	98
105) bromoform	15.504	173	46250	19.52 ug/L	99
107) isopropylbenzene	15.604	105	227680	19.63 ug/L	99
109) cyclohexanone	15.729	98	11931	141.01 ug/L	98
110) bromobenzene	15.955	156	72472	20.72 ug/L	96
111) 1,1,2,2-tetrachloroethane	15.845	83	59453	21.47 ug/L	98
112) trans-1,4-dichloro-2-b...	15.892	53	10844	15.99 ug/L	99
113) 1,2,3-trichloropropane	15.918	110	15513	21.56 ug/L	99
114) n-propylbenzene	15.981	91	256104	20.68 ug/L	98
115) 2-chlorotoluene	16.107	126	60933	20.43 ug/L	97
116) 4-chlorotoluene	16.201	91	161279	20.27 ug/L	99
117) 1,3,5-trimethylbenzene	16.123	105	197896	21.07 ug/L	99
118) tert-butylbenzene	16.453	119	163374	19.32 ug/L	99
119) pentachloroethane	16.505	167	48873	21.18 ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	196355	21.41 ug/L	99
121) sec-butylbenzene	16.652	105	250760	20.09 ug/L	99
122) 1,3-dichlorobenzene	16.809	146	137864	21.10 ug/L	99
123) p-isopropyltoluene	16.762	119	215909	19.81 ug/L	100
124) 1,4-dichlorobenzene	16.883	146	131430	20.45 ug/L	99
125) 1,2-dichlorobenzene	17.260	146	131542	21.05 ug/L	98
126) n-butylbenzene	17.156	92	102792	19.49 ug/L	99
127) 1,2-dibromo-3-chloropr...	18.005	157	12154	17.84 ug/L	95
128) 1,3,5-trichlorobenzene	18.220	180	117187	19.53 ug/L	96
129) 1,2,4-trichlorobenzene	18.860	180	87095	17.59 ug/L	98
130) hexachlorobutadiene	19.001	225	62088	20.38 ug/L	98
131) naphthalene	19.143	128	120736	15.67 ug/L	99
132) 1,2,3-trichlorobenzene	19.389	180	73140	17.86 ug/L	99
133) hexachloroethane	17.533	201	47874	20.40 ug/L	98

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

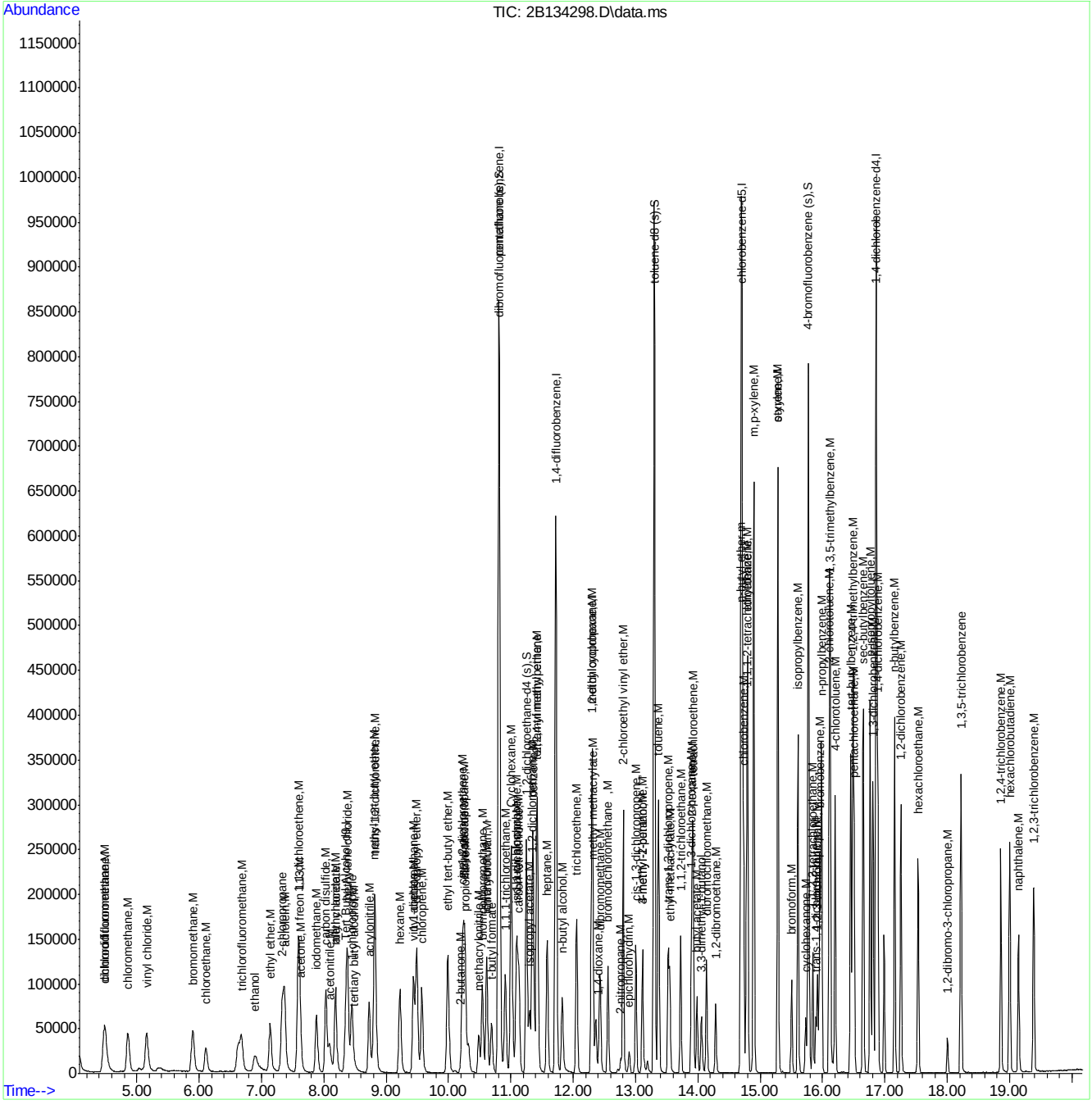
7.7.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5985\
Data File : 2B134298.D
Acq On : 10 Sep 2015 9:41 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90772,v2B5985,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 14:35:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134373.D
Acq On : 11 Sep 2015 10:27 pm
Operator : BridgetK
Sample : cc5926-50
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 17 10:44:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	106358	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	460105	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	461481	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	392045	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	207335	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	153894	50.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 100.84%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	173311	55.17	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.34%			
82) toluene-d8 (s)	13.302	98	520242	52.94	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.88%			
108) 4-bromofluorobenzene (s)	15.771	95	183027	52.59	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 105.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	53031	213.88	ug/L	93
3) ethanol	6.905	45	108636	4257.64	ug/L	99
4) 1,4-dioxane	12.411	88	27352	1251.01	ug/L	94
9) chlorodifluoromethane	4.494	51	152088	56.46	ug/L	97
10) dichlorodifluoromethane	4.478	85	197603	49.12	ug/L	98
12) chloromethane	4.866	50	192087	51.58	ug/L	98
13) vinyl chloride	5.165	62	172453	51.21	ug/L	99
15) bromomethane	5.899	94	112732	47.95	ug/L	95
16) chloroethane	6.108	64	77772	51.07	ug/L	97
18) trichlorofluoromethane	6.675	101	235143	57.37	ug/L	99
20) ethyl ether	7.141	74	64406	50.26	ug/L	93
21) acrolein	7.372	56	193602	477.45	ug/L	95
22) 2-chloropropane	7.335	43	243070	54.09	ug/L	95
24) 1,1-dichloroethene	7.592	96	110490	49.80	ug/L	90
25) acetone	7.629	43	32445	50.38	ug/L	96
26) allyl chloride	8.190	76	59546	49.80	ug/L #	80
27) acetonitrile	8.096	40	70471	511.48	ug/L	95
28) iodomethane	7.881	142	236041	49.01	ug/L	94
29) iso-butyl alcohol	11.095	74	14441	537.54	ug/L	86
30) carbon disulfide	8.033	76	408780	51.43	ug/L	99
31) methylene chloride	8.379	84	130160	51.12	ug/L	98
32) methyl acetate	8.185	74	19090	55.07	ug/L #	70
33) 1-chloropropane	8.447	42	226836	53.50	ug/L	99
34) methyl tert butyl ether	8.814	73	328869	53.65	ug/L	98
35) trans-1,2-dichloroethene	8.824	96	127158	51.10	ug/L	95
36) di-isopropyl ether	9.490	45	397350	53.47	ug/L	98
37) 2-butanone	10.198	72	12038	50.31	ug/L	92
38) 1,1-dichloroethane	9.438	63	227489	54.91	ug/L	98
39) chloroprene	9.574	53	175402	52.96	ug/L	97
40) acrylonitrile	8.730	53	208814	268.11	ug/L	97
41) vinyl acetate	9.448	86	15093	37.17	ug/L	67
42) ethyl tert-butyl ether	9.988	59	358036	54.95	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134373.D
Acq On : 11 Sep 2015 10:27 pm
Operator : BridgetK
Sample : cc5926-50
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 17 10:44:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.245	45	14345	52.32	ug/L		88
44)	2,2-dichloropropane	10.256	77	178922	48.64	ug/L		94
45)	cis-1,2-dichloroethene	10.224	96	140024	50.78	ug/L		96
46)	propionitrile	10.271	54	151862	542.11	ug/L		99
47)	bromochloromethane	10.544	128	74068	53.41	ug/L		96
48)	tetrahydrofuran	10.617	42	34109	57.26	ug/L		93
49)	chloroform	10.612	83	228685	53.60	ug/L		98
50)	t-butyl formate	10.691	59	80478	50.53	ug/L		94
53)	freon 113	7.597	151	101846	51.80	ug/L		97
54)	methacrylonitrile	10.486	41	66468	52.45	ug/L		96
55)	1,1,1-trichloroethane	10.911	97	206274	55.77	ug/L		99
56)	Cyclohexane	11.011	84	175840	52.75	ug/L		96
61)	epichlorohydrin	12.898	57	46484	278.87	ug/L		97
62)	n-butyl alcohol	11.829	56	131042	2969.15	ug/L		97
63)	carbon tetrachloride	11.126	117	190270	59.41	ug/L		97
64)	1,1-dichloropropene	11.095	75	159800	55.74	ug/L		97
65)	hexane	9.223	57	105961	35.55	ug/L		100
66)	benzene	11.357	78	466005	55.44	ug/L		99
67)	2,2,4-trimethylpentane	11.420	57	370867	52.90	ug/L		93
68)	tert-amyl methyl ether	11.425	73	299420	56.70	ug/L		96
69)	heptane	11.582	57	68163	46.42	ug/L		97
70)	isopropyl acetate	11.299	43	187988	55.34	ug/L		96
71)	1,2-dichloroethane	11.341	62	167002	62.04	ug/L		99
72)	trichloroethene	12.054	95	126689	55.24	ug/L		98
74)	2-nitropropane	12.762	41	29224	58.40	ug/L		95
75)	2-chloroethyl vinyl ether	12.804	63	289427	277.62	ug/L		100
76)	methyl methacrylate	12.321	100	26331	53.51	ug/L	#	74
77)	1,2-dichloropropane	12.300	63	116237	54.90	ug/L		99
78)	dibromomethane	12.432	93	74447	56.26	ug/L		96
79)	methylcyclohexane	12.306	83	176562	51.94	ug/L		97
80)	bromodichloromethane	12.557	83	171422	56.94	ug/L		99
81)	cis-1,3-dichloropropene	13.008	75	180769	51.66	ug/L		94
83)	4-methyl-2-pentanone	13.113	58	37260	55.17	ug/L		94
84)	toluene	13.370	92	274918	50.96	ug/L		97
85)	3-methyl-1-butanol	13.113	55	78408	1191.49	ug/L		98
86)	trans-1,3-dichloropropene	13.527	75	163507	53.87	ug/L		92
87)	ethyl methacrylate	13.548	69	124300	53.97	ug/L		92
88)	1,1,2-trichloroethane	13.721	83	81563	52.97	ug/L		94
89)	2-hexanone	13.910	58	29286	52.10	ug/L		99
91)	n-butyl ether	14.686	57	461096	52.80	ug/L		96
92)	tetrachloroethene	13.921	164	149983	63.80	ug/L		97
93)	1,3-dichloropropane	13.900	76	154812	50.66	ug/L		94
94)	butyl acetate	13.989	56	55585	51.97	ug/L		94
95)	3,3-dimethyl-1-butanol	14.057	57	68185	508.16	ug/L		98
96)	dibromochloromethane	14.141	129	138797	53.13	ug/L		99
97)	1,2-dibromoethane	14.288	107	103695	50.30	ug/L		100
98)	chlorobenzene	14.733	112	300396	51.76	ug/L		98
99)	1,1,1,2-tetrachloroethane	14.786	131	128520	54.52	ug/L		99
100)	ethylbenzene	14.796	91	496613	52.92	ug/L		97
101)	m,p-xylene	14.896	106	391893	105.30	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134373.D
Acq On : 11 Sep 2015 10:27 pm
Operator : BridgetK
Sample : cc5926-50
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 17 10:44:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.284	106	205490	52.46	ug/L	95
103) styrene	15.284	104	330722	52.59	ug/L	94
105) bromoform	15.504	173	103123	54.65	ug/L	99
107) isopropylbenzene	15.604	105	524002	55.87	ug/L	97
109) cyclohexanone	15.729	98	18973	277.28	ug/L #	82
110) bromobenzene	15.955	156	156797	55.42	ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	121317	54.19	ug/L	99
112) trans-1,4-dichloro-2-b...	15.892	53	28450	51.86	ug/L	89
113) 1,2,3-trichloropropane	15.918	110	32188	55.33	ug/L	99
114) n-propylbenzene	15.981	91	560227	55.93	ug/L	97
115) 2-chlorotoluene	16.107	126	128654	53.35	ug/L	89
116) 4-chlorotoluene	16.201	91	354479	55.10	ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	434425	57.18	ug/L	98
118) tert-butylbenzene	16.448	119	384822	56.28	ug/L	95
119) pentachloroethane	16.505	167	82626	44.28	ug/L	98
120) 1,2,4-trimethylbenzene	16.484	105	424825	57.28	ug/L	98
121) sec-butylbenzene	16.652	105	559843	55.46	ug/L	99
122) 1,3-dichlorobenzene	16.804	146	285869	54.10	ug/L	98
123) p-isopropyltoluene	16.762	119	492676	55.89	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	278815	53.64	ug/L	99
125) 1,2-dichlorobenzene	17.255	146	279738	55.34	ug/L	98
126) n-butylbenzene	17.156	92	234783	55.06	ug/L	98
127) 1,2-dibromo-3-chloropr...	18.005	157	27808	50.48	ug/L	94
128) 1,3,5-trichlorobenzene	18.220	180	261114	53.82	ug/L	99
129) 1,2,4-trichlorobenzene	18.860	180	206671	51.62	ug/L	99
130) hexachlorobutadiene	19.001	225	134889	54.76	ug/L	99
131) naphthalene	19.143	128	298509	47.91	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	164584	49.69	ug/L	99
133) hexachloroethane	17.533	201	107394	56.59	ug/L	97

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

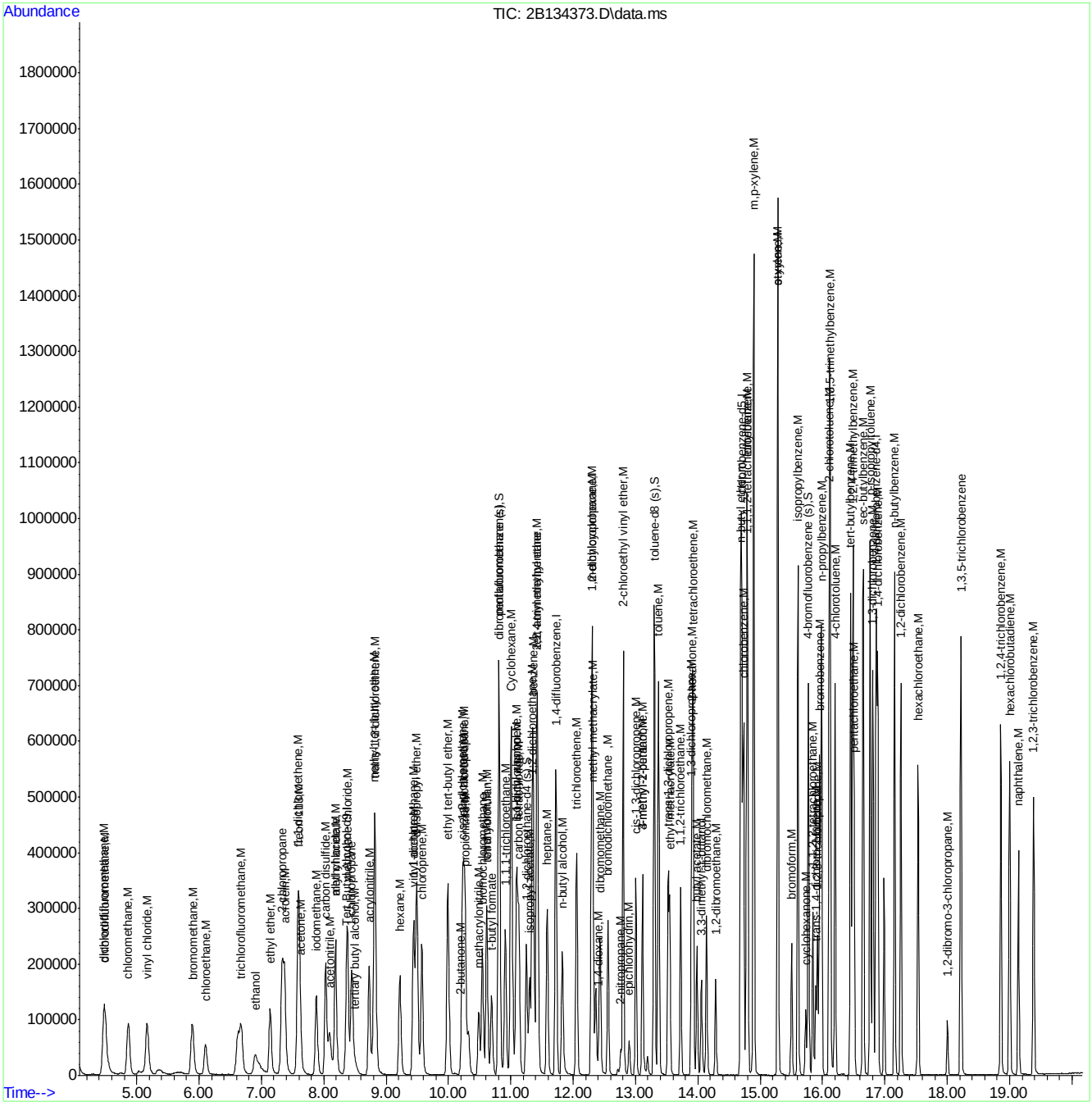
7.7.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5987-5988\
Data File : 2B134373.D
Acq On : 11 Sep 2015 10:27 pm
Operator : BridgetK
Sample : cc5926-50
Misc : ms90954,v2B5988,w,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 17 10:44:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134395.D
Acq On : 12 Sep 2015 9:17 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:59:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	103936	500.00	ug/L	0.00
5) pentafluorobenzene	10.811	168	461595	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	454755	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	391896	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	203945	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	155064	50.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.28%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	177184	56.23	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 112.46%			
82) toluene-d8 (s)	13.302	98	509069	52.57	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.14%			
108) 4-bromofluorobenzene (s)	15.771	95	177940	51.98	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 103.96%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.494	59	20538	84.76	ug/L	80
3) ethanol	6.900	45	41973	1683.33	ug/L	96
4) 1,4-dioxane	12.416	88	9734	455.58	ug/L	91
9) chlorodifluoromethane	4.499	51	57383	21.23	ug/L	99
10) dichlorodifluoromethane	4.483	85	78542	19.46	ug/L	96
12) chloromethane	4.861	50	73438	19.66	ug/L	98
13) vinyl chloride	5.159	62	68200	20.19	ug/L	99
15) bromomethane	5.909	94	45641	19.35	ug/L	94
16) chloroethane	6.114	64	31693	20.75	ug/L	94
18) trichlorofluoromethane	6.685	101	95770	23.29	ug/L	98
20) ethyl ether	7.147	74	25140	19.55	ug/L	98
21) acrolein	7.372	56	77098	189.52	ug/L	95
22) 2-chloropropane	7.341	43	97345	21.59	ug/L	92
24) 1,1-dichloroethene	7.597	96	43316	19.46	ug/L	90
25) acetone	7.634	43	14318	22.16	ug/L	95
26) allyl chloride	8.195	76	22295	18.59	ug/L	91
27) acetonitrile	8.096	40	28176	203.84	ug/L	93
28) iodomethane	7.886	142	89540	18.53	ug/L	93
29) iso-butyl alcohol	11.100	74	5674	210.52	ug/L #	65
30) carbon disulfide	8.038	76	163272	20.48	ug/L	98
31) methylene chloride	8.379	84	50615	19.82	ug/L	94
32) methyl acetate	8.185	74	7285	20.95	ug/L #	73
33) 1-chloropropane	8.452	42	88754	20.86	ug/L	95
34) methyl tert butyl ether	8.814	73	121899	19.82	ug/L	98
35) trans-1,2-dichloroethene	8.830	96	50134	20.08	ug/L	97
36) di-isopropyl ether	9.495	45	146934	19.71	ug/L	98
37) 2-butanone	10.208	72	4157	17.32	ug/L #	81
38) 1,1-dichloroethane	9.438	63	90251	21.71	ug/L	98
39) chloroprene	9.574	53	63918	19.24	ug/L	93
40) acrylonitrile	8.730	53	76863	98.37	ug/L	95
41) vinyl acetate	9.448	86	5243	12.87	ug/L #	43
42) ethyl tert-butyl ether	9.993	59	124202	19.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134395.D
Acq On : 12 Sep 2015 9:17 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:59:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.256	45	5214	18.96	ug/L	#	29
44) 2,2-dichloropropane	10.261	77	79132	21.44	ug/L		95
45) cis-1,2-dichloroethene	10.229	96	52539	18.99	ug/L		91
46) propionitrile	10.277	54	58997	209.93	ug/L		99
47) bromochloromethane	10.549	128	29437	21.16	ug/L		97
48) tetrahydrofuran	10.623	42	12363	20.69	ug/L		91
49) chloroform	10.617	83	90294	21.09	ug/L		98
50) t-butyl formate	10.701	59	28643	17.92	ug/L		91
53) freon 113	7.608	151	42004	21.30	ug/L		94
54) methacrylonitrile	10.492	41	23838	18.75	ug/L		94
55) 1,1,1-trichloroethane	10.911	97	79214	21.35	ug/L		97
56) Cyclohexane	11.016	84	67411	20.16	ug/L		98
61) epichlorohydrin	12.898	57	17275	105.17	ug/L		97
62) n-butyl alcohol	11.823	56	44303	1018.67	ug/L		95
63) carbon tetrachloride	11.131	117	76751	24.32	ug/L		96
64) 1,1-dichloropropene	11.100	75	61149	21.64	ug/L		98
65) hexane	9.223	57	34643	11.79	ug/L		90
66) benzene	11.357	78	180015	21.73	ug/L		99
67) 2,2,4-trimethylpentane	11.420	57	133676	19.35	ug/L		94
68) tert-amyl methyl ether	11.430	73	108680	20.88	ug/L		93
69) heptane	11.587	57	23297	16.10	ug/L		95
70) isopropyl acetate	11.304	43	66521	19.87	ug/L		96
71) 1,2-dichloroethane	11.346	62	64930	24.48	ug/L		98
72) trichloroethene	12.059	95	46263	20.47	ug/L		99
74) 2-nitropropane	12.767	41	10956	22.22	ug/L		99
75) 2-chloroethyl vinyl ether	12.804	63	101020	98.33	ug/L		96
76) methyl methacrylate	12.327	100	9936	20.49	ug/L	#	85
77) 1,2-dichloropropane	12.300	63	45332	21.73	ug/L		99
78) dibromomethane	12.432	93	29476	22.60	ug/L		93
79) methylcyclohexane	12.306	83	62216	18.57	ug/L		94
80) bromodichloromethane	12.563	83	65664	22.14	ug/L		98
81) cis-1,3-dichloropropene	13.008	75	67314	19.52	ug/L		94
83) 4-methyl-2-pentanone	13.118	58	13224	19.87	ug/L		94
84) toluene	13.370	92	102924	19.36	ug/L		98
85) 3-methyl-1-butanol	13.113	55	27050	417.13	ug/L		100
86) trans-1,3-dichloropropene	13.527	75	60053	20.08	ug/L		93
87) ethyl methacrylate	13.554	69	41679	18.36	ug/L		95
88) 1,1,2-trichloroethane	13.727	83	31654	20.86	ug/L		98
89) 2-hexanone	13.910	58	9397	16.96	ug/L		88
91) n-butyl ether	14.686	57	156056	17.88	ug/L	#	93
92) tetrachloroethene	13.926	164	49976	21.27	ug/L		96
93) 1,3-dichloropropane	13.900	76	58160	19.04	ug/L		93
94) butyl acetate	13.989	56	19218	17.98	ug/L		94
95) 3,3-dimethyl-1-butanol	14.057	57	21959	163.72	ug/L		96
96) dibromochloromethane	14.141	129	53031	20.31	ug/L		97
97) 1,2-dibromoethane	14.288	107	39059	18.95	ug/L		98
98) chlorobenzene	14.733	112	117333	20.23	ug/L		98
99) 1,1,1,2-tetrachloroethane	14.786	131	50351	21.37	ug/L		98
100) ethylbenzene	14.796	91	187413	19.98	ug/L		98
101) m,p-xylene	14.896	106	150033	40.33	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134395.D
Acq On : 12 Sep 2015 9:17 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:59:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	74313	18.98 ug/L	94
103) styrene	15.284	104	121592	19.34 ug/L	94
105) bromoform	15.504	173	38961	20.65 ug/L	98
107) isopropylbenzene	15.609	105	185842	20.14 ug/L	98
109) cyclohexanone	15.735	98	5083	75.52 ug/L	92
110) bromobenzene	15.955	156	59257	21.29 ug/L	93
111) 1,1,2,2-tetrachloroethane	15.845	83	47296	21.48 ug/L	99
112) trans-1,4-dichloro-2-b...	15.887	53	9437	17.49 ug/L	83
113) 1,2,3-trichloropropane	15.918	110	12752	22.28 ug/L	97
114) n-propylbenzene	15.986	91	209219	21.24 ug/L	98
115) 2-chlorotoluene	16.107	126	49467	20.85 ug/L	97
116) 4-chlorotoluene	16.201	91	133329	21.07 ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	166558	22.29 ug/L	97
118) tert-butylbenzene	16.453	119	135167	20.10 ug/L	95
119) pentachloroethane	16.505	167	41190	22.44 ug/L	95
120) 1,2,4-trimethylbenzene	16.484	105	162680	22.30 ug/L	97
121) sec-butylbenzene	16.652	105	202215	20.37 ug/L	98
122) 1,3-dichlorobenzene	16.809	146	110867	21.33 ug/L	98
123) p-isopropyltoluene	16.762	119	177227	20.44 ug/L	97
124) 1,4-dichlorobenzene	16.883	146	105196	20.58 ug/L	99
125) 1,2-dichlorobenzene	17.255	146	105012	21.12 ug/L	98
126) n-butylbenzene	17.156	92	81368	19.40 ug/L	94
127) 1,2-dibromo-3-chloropr...	18.005	157	9615	17.75 ug/L	88
128) 1,3,5-trichlorobenzene	18.220	180	91550	19.18 ug/L	97
129) 1,2,4-trichlorobenzene	18.859	180	66273	16.83 ug/L	99
130) hexachlorobutadiene	19.001	225	50569	20.87 ug/L	96
131) naphthalene	19.143	128	88631	14.46 ug/L	98
132) 1,2,3-trichlorobenzene	19.389	180	54274	16.66 ug/L	97
133) hexachloroethane	17.533	201	40501	21.70 ug/L	96

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

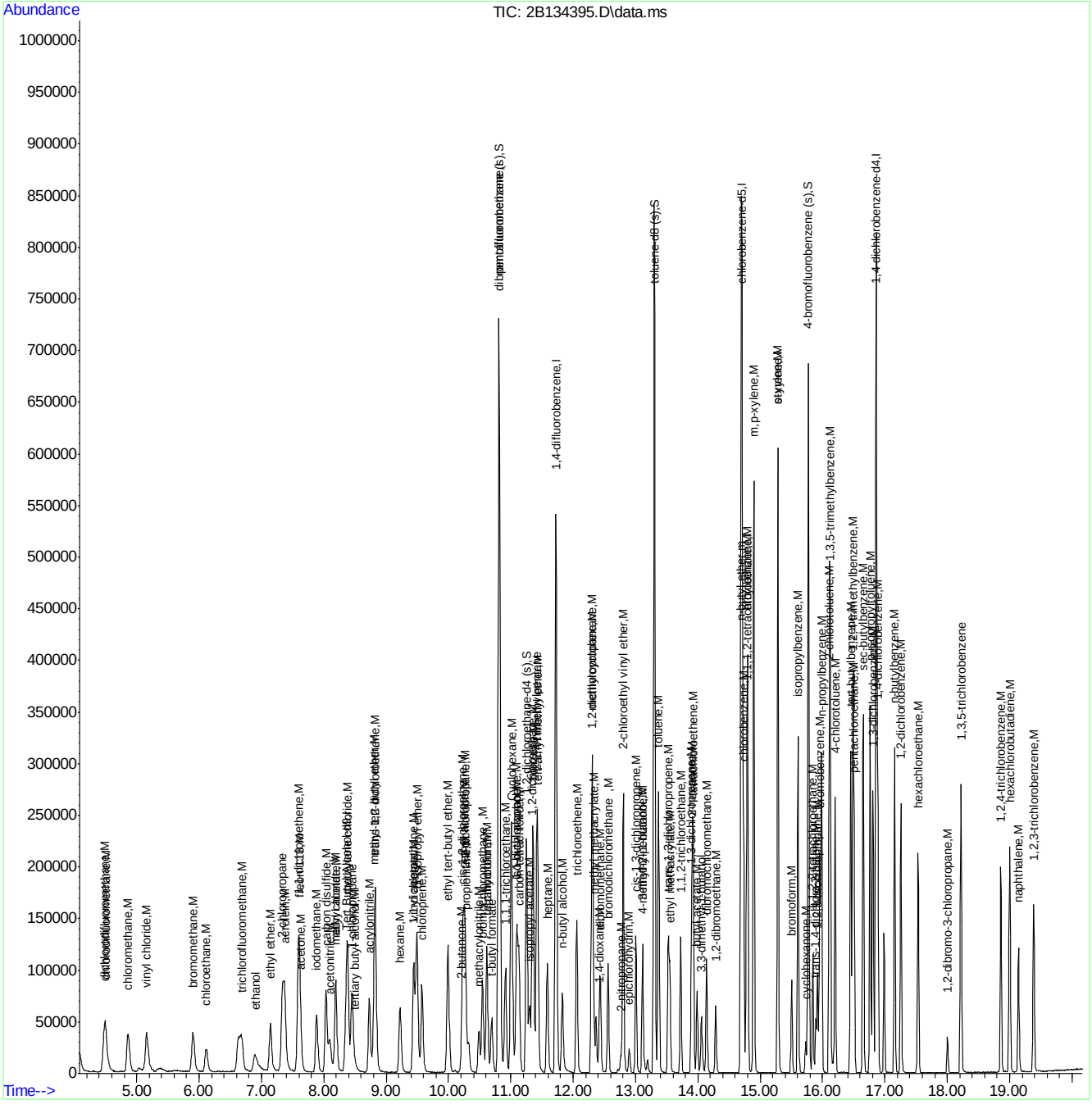
7.7.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989\
Data File : 2B134395.D
Acq On : 12 Sep 2015 9:17 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90889,v2B5989,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:59:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JC3254R

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134421.D
Acq On : 14 Sep 2015 9:27 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90983,v2B5990,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 16:21:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	102110	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	437482	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	410515	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	352861	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	186871	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	142064	48.95	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 97.90%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	162105	54.28	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 108.56%						
82) toluene-d8 (s)	13.302	98	464205	53.10	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 106.20%						
108) 4-bromofluorobenzene (s)	15.771	95	163341	52.08	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 104.16%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.484	59	20292	85.25	ug/L	64
3) ethanol	6.905	45	37569	1533.65	ug/L	100
4) 1,4-dioxane	12.411	88	8868	422.47	ug/L	90
9) chlorodifluoromethane	4.499	51	45258	17.67	ug/L	93
10) dichlorodifluoromethane	4.483	85	62356	16.30	ug/L	93
12) chloromethane	4.866	50	57655	16.28	ug/L	99
13) vinyl chloride	5.170	62	57196	17.86	ug/L	98
15) bromomethane	5.904	94	41234	18.45	ug/L	98
16) chloroethane	6.119	64	26838	18.54	ug/L	93
18) trichlorofluoromethane	6.675	101	90808	23.30	ug/L	99
20) ethyl ether	7.147	74	22790	18.70	ug/L	91
21) acrolein	7.372	56	61556	159.66	ug/L	90
22) 2-chloropropane	7.341	43	79778	18.67	ug/L	91
24) 1,1-dichloroethene	7.597	96	38606	18.30	ug/L	97
25) acetone	7.634	43	12796	20.90	ug/L	98
26) allyl chloride	8.195	76	19888	17.49	ug/L	92
27) acetonitrile	8.096	40	23558	179.82	ug/L	86
28) iodomethane	7.886	142	83813	18.30	ug/L	97
29) iso-butyl alcohol	11.095	74	5090	199.26	ug/L	96
30) carbon disulfide	8.038	76	137803	18.23	ug/L	96
31) methylene chloride	8.384	84	45003	18.59	ug/L	95
32) methyl acetate	8.185	74	6667	20.23	ug/L #	84
33) 1-chloropropane	8.452	42	74635	18.51	ug/L	96
34) methyl tert butyl ether	8.814	73	114387	19.63	ug/L	100
35) trans-1,2-dichloroethene	8.830	96	43852	18.54	ug/L	97
36) di-isopropyl ether	9.490	45	126992	17.97	ug/L	98
37) 2-butanone	10.209	72	4184	18.39	ug/L	92
38) 1,1-dichloroethane	9.438	63	75422	19.15	ug/L	98
39) chloroprene	9.579	53	58889	18.70	ug/L	92
40) acrylonitrile	8.730	53	68057	91.90	ug/L	98
41) vinyl acetate	9.448	86	5433	14.07	ug/L	99
42) ethyl tert-butyl ether	9.988	59	117994	19.04	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134421.D
Acq On : 14 Sep 2015 9:27 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90983,v2B5990,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 16:21:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	ethyl acetate	10.250	45	4742	18.19	ug/L		75
44)	2,2-dichloropropane	10.261	77	70013	20.02	ug/L		92
45)	cis-1,2-dichloroethene	10.229	96	46582	17.77	ug/L		94
46)	propionitrile	10.266	54	51817	194.54	ug/L		97
47)	bromochloromethane	10.549	128	25981	19.70	ug/L		89
48)	tetrahydrofuran	10.617	42	10038	17.72	ug/L		97
49)	chloroform	10.617	83	78725	19.41	ug/L		97
50)	t-butyl formate	10.696	59	28025	18.50	ug/L		95
53)	freon 113	7.608	151	38499	20.59	ug/L		98
54)	methacrylonitrile	10.486	41	22027	18.28	ug/L		94
55)	1,1,1-trichloroethane	10.911	97	71633	20.37	ug/L		99
56)	Cyclohexane	11.016	84	59590	18.80	ug/L	#	82
61)	epichlorohydrin	12.898	57	15838	106.81	ug/L		92
62)	n-butyl alcohol	11.823	56	41647	1060.79	ug/L		96
63)	carbon tetrachloride	11.131	117	68617	24.08	ug/L		99
64)	1,1-dichloropropene	11.095	75	53812	21.10	ug/L		98
65)	hexane	9.223	57	41472	15.64	ug/L		94
66)	benzene	11.357	78	153123	20.48	ug/L		99
67)	2,2,4-trimethylpentane	11.420	57	131974	21.16	ug/L		94
68)	tert-amyl methyl ether	11.425	73	102266	21.77	ug/L		98
69)	heptane	11.587	57	24349	18.64	ug/L		96
70)	isopropyl acetate	11.299	43	60196	19.92	ug/L		97
71)	1,2-dichloroethane	11.341	62	57885	24.17	ug/L		99
72)	trichloroethene	12.059	95	41791	20.49	ug/L		98
74)	2-nitropropane	12.762	41	10603	23.82	ug/L		90
75)	2-chloroethyl vinyl ether	12.804	63	88636	95.57	ug/L		98
76)	methyl methacrylate	12.321	100	9215	21.05	ug/L		95
77)	1,2-dichloropropane	12.300	63	38452	20.42	ug/L		98
78)	dibromomethane	12.432	93	25959	22.05	ug/L		98
79)	methylcyclohexane	12.306	83	60347	19.96	ug/L		99
80)	bromodichloromethane	12.557	83	58148	21.71	ug/L		99
81)	cis-1,3-dichloropropene	13.003	75	61966	19.91	ug/L		93
83)	4-methyl-2-pentanone	13.113	58	12398	20.64	ug/L		93
84)	toluene	13.370	92	90842	18.93	ug/L		96
85)	3-methyl-1-butanol	13.113	55	25696	438.95	ug/L		98
86)	trans-1,3-dichloropropene	13.527	75	56779	21.03	ug/L		94
87)	ethyl methacrylate	13.548	69	40568	19.80	ug/L		95
88)	1,1,2-trichloroethane	13.727	83	27667	20.20	ug/L		94
89)	2-hexanone	13.905	58	9460	18.92	ug/L		95
91)	n-butyl ether	14.686	57	141844	18.05	ug/L		96
92)	tetrachloroethene	13.921	164	45283	21.40	ug/L		95
93)	1,3-dichloropropane	13.900	76	51086	18.57	ug/L		94
94)	butyl acetate	13.983	56	17744	18.43	ug/L		90
95)	3,3-dimethyl-1-butanol	14.057	57	22076	182.80	ug/L		97
96)	dibromochloromethane	14.141	129	48346	20.56	ug/L		99
97)	1,2-dibromoethane	14.288	107	35296	19.02	ug/L		94
98)	chlorobenzene	14.733	112	104243	19.96	ug/L		96
99)	1,1,1,2-tetrachloroethane	14.786	131	45207	21.31	ug/L		98
100)	ethylbenzene	14.796	91	168802	19.98	ug/L		98
101)	m,p-xylene	14.896	106	133659	39.90	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134421.D
Acq On : 14 Sep 2015 9:27 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90983,v2B5990,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 16:21:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.279	106	67947	19.27	ug/L	91
103) styrene	15.284	104	109093	19.28	ug/L	94
105) bromoform	15.504	173	36459	21.47	ug/L	99
107) isopropylbenzene	15.604	105	175634	20.78	ug/L	98
109) cyclohexanone	15.729	98	10630	172.37	ug/L	86
110) bromobenzene	15.955	156	54087	21.21	ug/L	98
111) 1,1,2,2-tetrachloroethane	15.845	83	41039	20.34	ug/L	98
112) trans-1,4-dichloro-2-b...	15.892	53	10344	20.92	ug/L	89
113) 1,2,3-trichloropropane	15.918	110	11337	21.62	ug/L	97
114) n-propylbenzene	15.981	91	190427	21.09	ug/L	98
115) 2-chlorotoluene	16.107	126	42627	19.61	ug/L	91
116) 4-chlorotoluene	16.196	91	121357	20.93	ug/L	96
117) 1,3,5-trimethylbenzene	16.123	105	150126	21.92	ug/L	96
118) tert-butylbenzene	16.448	119	127534	20.69	ug/L	94
119) pentachloroethane	16.505	167	37400	22.24	ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	148218	22.17	ug/L	97
121) sec-butylbenzene	16.652	105	190893	20.98	ug/L	99
122) 1,3-dichlorobenzene	16.810	146	99132	20.81	ug/L	99
123) p-isopropyltoluene	16.762	119	167341	21.06	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	94921	20.26	ug/L	99
125) 1,2-dichlorobenzene	17.255	146	95524	20.97	ug/L	97
126) n-butylbenzene	17.156	92	75706	19.70	ug/L	95
127) 1,2-dibromo-3-chloropr...	18.005	157	9544	19.22	ug/L	96
128) 1,3,5-trichlorobenzene	18.220	180	88854	20.32	ug/L	96
129) 1,2,4-trichlorobenzene	18.860	180	67608	18.74	ug/L	97
130) hexachlorobutadiene	19.001	225	49112	22.12	ug/L	98
131) naphthalene	19.143	128	94794	16.88	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	54094	18.12	ug/L	99
133) hexachloroethane	17.533	201	38669	22.61	ug/L	97

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

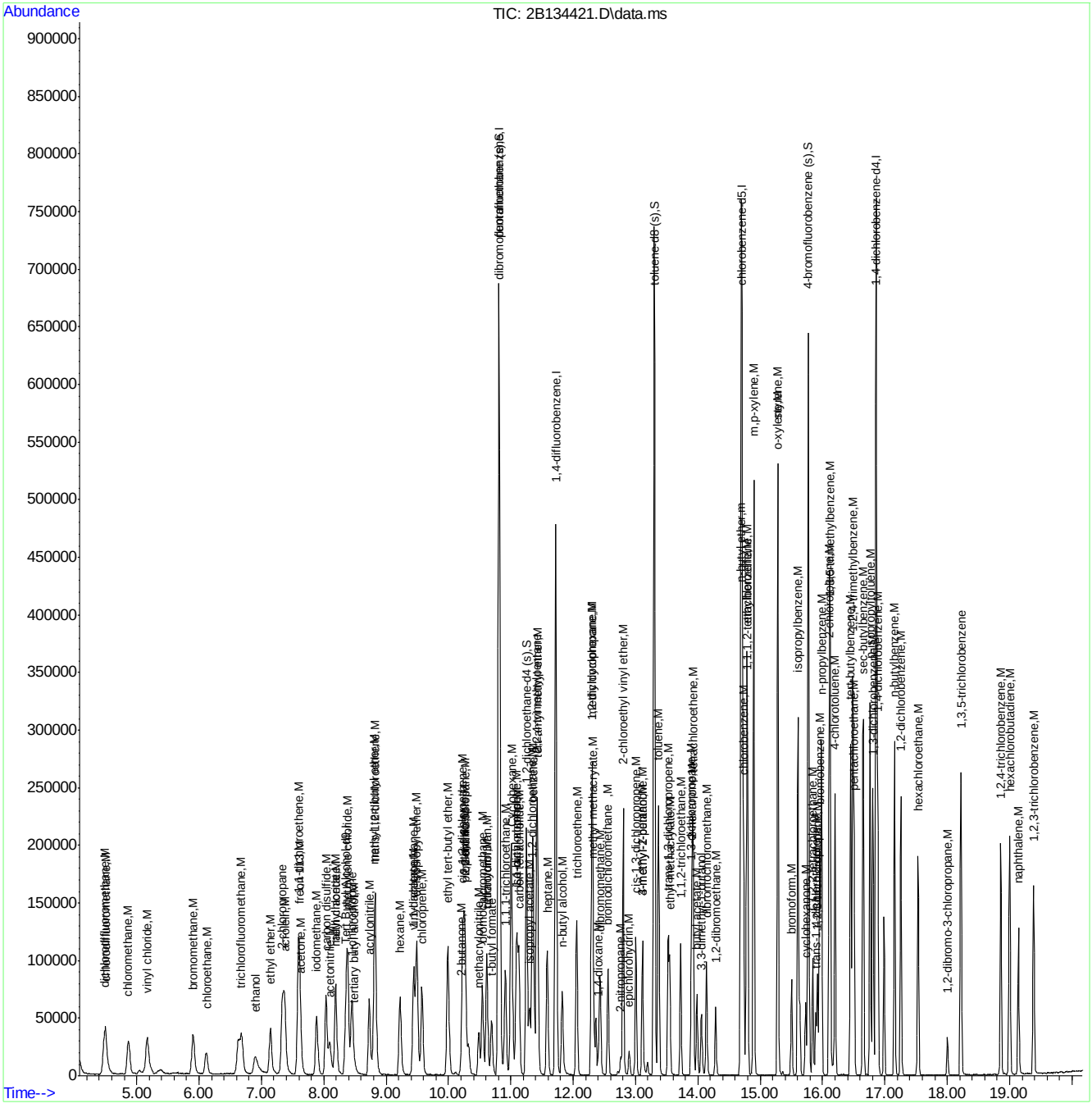
7.7.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5989ms-5990\
Data File : 2B134421.D
Acq On : 14 Sep 2015 9:27 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms90983,v2B5990,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 16:21:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134468.D
Acq On : 15 Sep 2015 8:55 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 15:30:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	95924	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	412707	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	395399	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	337591	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	180684	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	135903	49.64	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 99.28%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	154535	54.85	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 109.70%						
82) toluene-d8 (s)	13.302	98	441902	52.48	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 104.96%						
108) 4-bromofluorobenzene (s)	15.771	95	159733	52.67	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 105.34%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	18593	83.15	ug/L	62
3) ethanol	6.905	45	36542	1587.93	ug/L	93
4) 1,4-dioxane	12.410	88	7983	404.84	ug/L	88
9) chlorodifluoromethane	4.499	51	45164	18.69	ug/L	92
10) dichlorodifluoromethane	4.488	85	76033	21.07	ug/L	95
12) chloromethane	4.871	50	60492	18.11	ug/L	96
13) vinyl chloride	5.165	62	59199	19.60	ug/L	96
15) bromomethane	5.909	94	41277	19.57	ug/L	96
16) chloroethane	6.124	64	26950	19.73	ug/L	92
18) trichlorofluoromethane	6.675	101	91066	24.77	ug/L	98
20) ethyl ether	7.152	74	20930	18.21	ug/L	91
21) acrolein	7.377	56	70469	193.75	ug/L	98
22) 2-chloropropane	7.340	43	77535	19.23	ug/L	91
24) 1,1-dichloroethene	7.603	96	37614	18.90	ug/L	97
25) acetone	7.634	43	11603	20.09	ug/L	93
26) allyl chloride	8.195	76	19077	17.79	ug/L	87
27) acetonitrile	8.101	40	22415	181.37	ug/L	93
28) iodomethane	7.891	142	80277	18.58	ug/L	91
29) iso-butyl alcohol	11.094	74	4630	192.14	ug/L	95
30) carbon disulfide	8.038	76	132534	18.59	ug/L	96
31) methylene chloride	8.384	84	41820	18.31	ug/L	94
32) methyl acetate	8.190	74	6183	19.89	ug/L	98
33) 1-chloropropane	8.457	42	71412	18.78	ug/L	95
34) methyl tert butyl ether	8.814	73	109495	19.91	ug/L	98
35) trans-1,2-dichloroethene	8.829	96	41237	18.48	ug/L	98
36) di-isopropyl ether	9.495	45	117948	17.69	ug/L	98
37) 2-butanone	10.203	72	3949	18.40	ug/L	97
38) 1,1-dichloroethane	9.443	63	71985	19.37	ug/L	98
39) chloroprene	9.579	53	54461	18.33	ug/L	97
40) acrylonitrile	8.730	53	64080	91.72	ug/L	98
41) vinyl acetate	9.453	86	5157	14.16	ug/L #	75
42) ethyl tert-butyl ether	9.993	59	109545	18.74	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134468.D
Acq On : 15 Sep 2015 8:55 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 15:30:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.250	45	4320	17.57	ug/L		67
44) 2,2-dichloropropane	10.256	77	70437	21.35	ug/L		95
45) cis-1,2-dichloroethene	10.229	96	45506	18.40	ug/L		97
46) propionitrile	10.271	54	49303	196.21	ug/L		94
47) bromochloromethane	10.549	128	24298	19.53	ug/L		97
48) tetrahydrofuran	10.617	42	10744	20.11	ug/L		97
49) chloroform	10.617	83	76537	20.00	ug/L		98
50) t-butyl formate	10.696	59	25924	18.14	ug/L		93
53) freon 113	7.618	151	37020	20.99	ug/L		93
54) methacrylonitrile	10.491	41	20292	17.85	ug/L		93
55) 1,1,1-trichloroethane	10.916	97	71610	21.58	ug/L		98
56) Cyclohexane	11.016	84	55828	18.67	ug/L		94
61) epichlorohydrin	12.898	57	14856	104.02	ug/L		99
62) n-butyl alcohol	11.828	56	38289	1012.54	ug/L		98
63) carbon tetrachloride	11.131	117	68116	24.82	ug/L		97
64) 1,1-dichloropropene	11.100	75	52046	21.19	ug/L		98
65) hexane	9.228	57	34577	13.54	ug/L		100
66) benzene	11.357	78	148363	20.60	ug/L		99
67) 2,2,4-trimethylpentane	11.419	57	117940	19.63	ug/L		94
68) tert-amyl methyl ether	11.425	73	93780	20.73	ug/L		94
69) heptane	11.587	57	21841	17.36	ug/L		93
70) isopropyl acetate	11.304	43	56506	19.42	ug/L		98
71) 1,2-dichloroethane	11.341	62	56851	24.65	ug/L		95
72) trichloroethene	12.054	95	40998	20.87	ug/L		95
74) 2-nitropropane	12.762	41	9745	22.73	ug/L		98
75) 2-chloroethyl vinyl ether	12.804	63	87685	98.16	ug/L		97
76) methyl methacrylate	12.327	100	8439	20.02	ug/L	#	78
77) 1,2-dichloropropane	12.300	63	36151	19.93	ug/L		96
78) dibromomethane	12.431	93	24990	22.04	ug/L		97
79) methylcyclohexane	12.306	83	55155	18.94	ug/L		97
80) bromodichloromethane	12.562	83	57855	22.43	ug/L		99
81) cis-1,3-dichloropropene	13.003	75	59137	19.72	ug/L		95
83) 4-methyl-2-pentanone	13.113	58	11125	19.22	ug/L		99
84) toluene	13.370	92	86621	18.74	ug/L		93
85) 3-methyl-1-butanol	13.113	55	23280	412.89	ug/L		95
86) trans-1,3-dichloropropene	13.527	75	53504	20.57	ug/L		92
87) ethyl methacrylate	13.548	69	37691	19.10	ug/L		93
88) 1,1,2-trichloroethane	13.726	83	26614	20.17	ug/L		95
89) 2-hexanone	13.910	58	8675	18.01	ug/L		96
91) n-butyl ether	14.686	57	131754	17.52	ug/L		94
92) tetrachloroethene	13.926	164	43702	21.59	ug/L		98
93) 1,3-dichloropropane	13.899	76	49126	18.67	ug/L		97
94) butyl acetate	13.989	56	16861	18.31	ug/L		94
95) 3,3-dimethyl-1-butanol	14.057	57	20195	174.78	ug/L		94
96) dibromochloromethane	14.141	129	47746	21.22	ug/L		99
97) 1,2-dibromoethane	14.287	107	33883	19.09	ug/L		96
98) chlorobenzene	14.733	112	99923	20.00	ug/L		99
99) 1,1,1,2-tetrachloroethane	14.786	131	44319	21.83	ug/L		97
100) ethylbenzene	14.796	91	164973	20.41	ug/L		97
101) m,p-xylene	14.896	106	129128	40.29	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134468.D
Acq On : 15 Sep 2015 8:55 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 15:30:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	63978	18.97 ug/L	87
103) styrene	15.284	104	105645	19.51 ug/L	94
105) bromoform	15.504	173	35302	21.73 ug/L	92
107) isopropylbenzene	15.603	105	169373	20.72 ug/L	95
109) cyclohexanone	15.729	98	4665	78.23 ug/L	89
110) bromobenzene	15.955	156	52770	21.40 ug/L	95
111) 1,1,2,2-tetrachloroethane	15.845	83	39294	20.14 ug/L	97
112) trans-1,4-dichloro-2-b...	15.892	53	8295	17.35 ug/L #	81
113) 1,2,3-trichloropropane	15.918	110	10998	21.69 ug/L	93
114) n-propylbenzene	15.981	91	184771	21.17 ug/L	98
115) 2-chlorotoluene	16.112	126	41485	19.74 ug/L	88
116) 4-chlorotoluene	16.196	91	118469	21.13 ug/L	94
117) 1,3,5-trimethylbenzene	16.122	105	145440	21.97 ug/L	95
118) tert-butylbenzene	16.453	119	122406	20.54 ug/L	97
119) pentachloroethane	16.505	167	35879	22.07 ug/L	96
120) 1,2,4-trimethylbenzene	16.484	105	143639	22.23 ug/L	95
121) sec-butylbenzene	16.652	105	180856	20.56 ug/L	97
122) 1,3-dichlorobenzene	16.809	146	97694	21.22 ug/L	98
123) p-isopropyltoluene	16.762	119	160293	20.87 ug/L	96
124) 1,4-dichlorobenzene	16.883	146	92088	20.33 ug/L	98
125) 1,2-dichlorobenzene	17.255	146	91903	20.86 ug/L	98
126) n-butylbenzene	17.155	92	73250	19.71 ug/L	95
127) 1,2-dibromo-3-chloropr...	18.005	157	9079	18.91 ug/L	90
128) 1,3,5-trichlorobenzene	18.220	180	84477	19.98 ug/L	98
129) 1,2,4-trichlorobenzene	18.859	180	64045	18.36 ug/L	98
130) hexachlorobutadiene	19.001	225	48777	22.72 ug/L	98
131) naphthalene	19.142	128	89879	16.55 ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	52303	18.12 ug/L	97
133) hexachloroethane	17.533	201	36775	22.24 ug/L	97

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

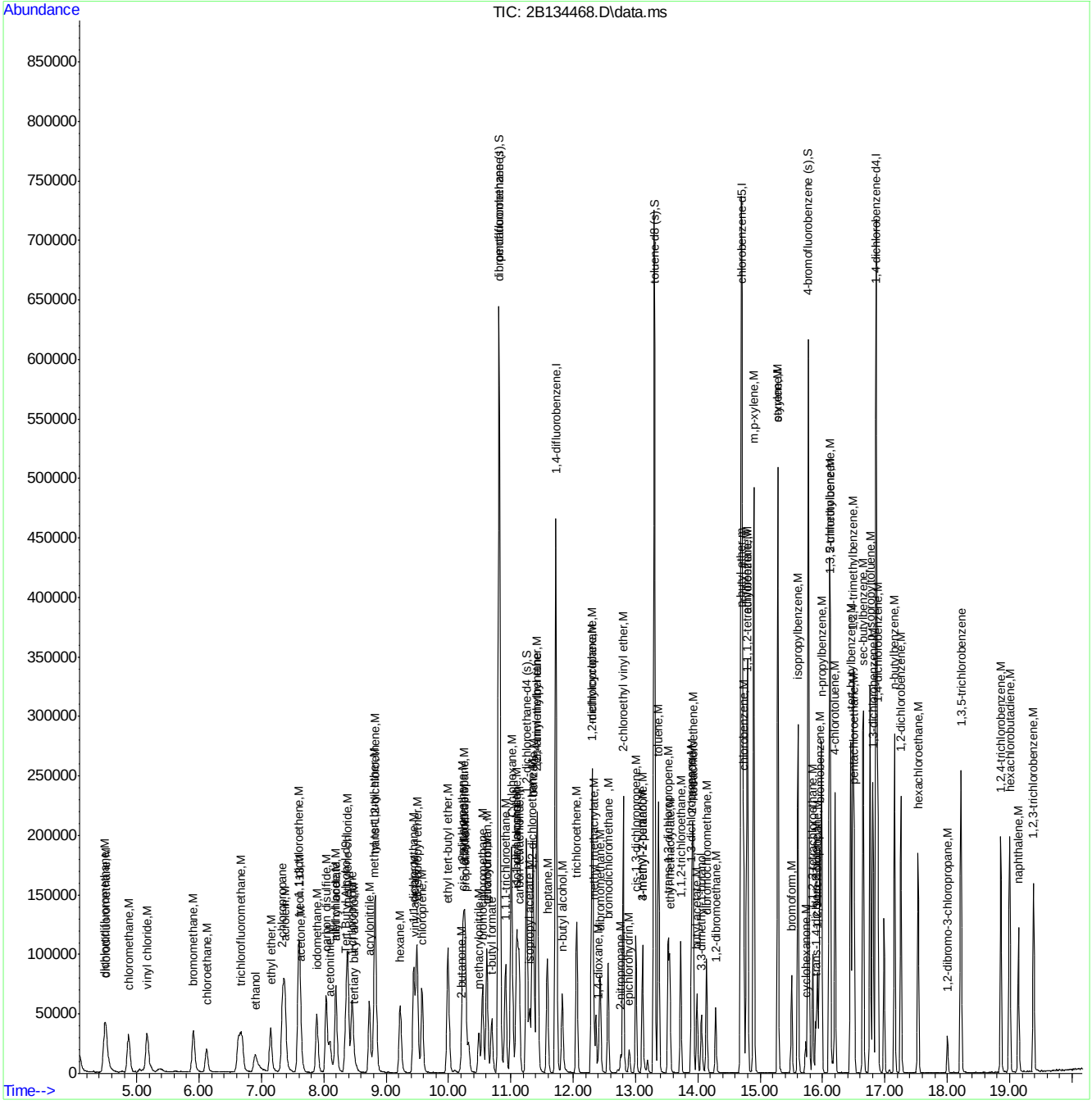
7.7.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5992\
Data File : 2B134468.D
Acq On : 15 Sep 2015 8:55 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91079,v2B5992,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 15:30:48 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134517.D
Acq On : 16 Sep 2015 9:02 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:49:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.358	65	82911	500.00	ug/L	-0.01
5) pentafluorobenzene	10.811	168	375836	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	361544	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	308441	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.862	152	164176	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.822	113	126035	50.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 101.10%			
52) 1,2-dichloroethane-d4 (s)	11.252	65	142431	55.51	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 111.02%			
82) toluene-d8 (s)	13.302	98	398229	51.72	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.44%			
108) 4-bromofluorobenzene (s)	15.771	95	143964	52.24	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 104.48%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	15693	81.19	ug/L	66
3) ethanol	6.905	45	34226	1720.72	ug/L	93
4) 1,4-dioxane	12.410	88	7108	417.04	ug/L	90
9) chlorodifluoromethane	4.499	51	40813	18.55	ug/L	89
10) dichlorodifluoromethane	4.488	85	68978	20.99	ug/L	98
12) chloromethane	4.866	50	52253	17.18	ug/L	96
13) vinyl chloride	5.170	62	52081	18.93	ug/L	94
15) bromomethane	5.909	94	36842	19.18	ug/L	98
16) chloroethane	6.119	64	24337	19.57	ug/L	94
18) trichlorofluoromethane	6.669	101	87779	26.22	ug/L	97
20) ethyl ether	7.146	74	18672	17.84	ug/L	96
21) acrolein	7.377	56	58176	175.64	ug/L	95
22) 2-chloropropane	7.340	43	69232	18.86	ug/L	86
24) 1,1-dichloroethene	7.603	96	32529	17.95	ug/L	98
25) acetone	7.634	43	10134	19.26	ug/L	92
26) allyl chloride	8.190	76	16671	17.07	ug/L	93
27) acetonitrile	8.101	40	20098	178.58	ug/L	93
28) iodomethane	7.891	142	72539	18.44	ug/L	92
29) iso-butyl alcohol	11.100	74	4408	200.87	ug/L #	61
30) carbon disulfide	8.038	76	121577	18.73	ug/L	94
31) methylene chloride	8.384	84	40156	19.31	ug/L	95
32) methyl acetate	8.179	74	5665	20.01	ug/L #	79
33) 1-chloropropane	8.452	42	65125	18.80	ug/L	96
34) methyl tert butyl ether	8.819	73	99389	19.85	ug/L	94
35) trans-1,2-dichloroethene	8.829	96	38465	18.93	ug/L	96
36) di-isopropyl ether	9.490	45	101117	16.66	ug/L	94
37) 2-butanone	10.208	72	3383	17.31	ug/L	92
38) 1,1-dichloroethane	9.443	63	66320	19.60	ug/L	98
39) chloroprene	9.574	53	49818	18.42	ug/L	94
40) acrylonitrile	8.730	53	55291	86.91	ug/L	97
41) vinyl acetate	9.448	86	4284	12.92	ug/L	73
42) ethyl tert-butyl ether	9.988	59	94620	17.78	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134517.D
Acq On : 16 Sep 2015 9:02 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:49:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) ethyl acetate	10.256	45	3760	16.79	ug/L	#	51
44) 2,2-dichloropropane	10.261	77	65498	21.80	ug/L		90
45) cis-1,2-dichloroethene	10.229	96	40628	18.04	ug/L		93
46) propionitrile	10.276	54	43986	192.23	ug/L		97
47) bromochloromethane	10.549	128	23271	20.54	ug/L		93
48) tetrahydrofuran	10.617	42	7577	15.57	ug/L		94
49) chloroform	10.617	83	71928	20.64	ug/L		99
50) t-butyl formate	10.691	59	22389	17.21	ug/L		96
53) freon 113	7.618	151	34668	21.59	ug/L		92
54) methacrylonitrile	10.491	41	17181	16.60	ug/L		98
55) 1,1,1-trichloroethane	10.911	97	67864	22.46	ug/L		98
56) Cyclohexane	11.016	84	51597	18.95	ug/L		91
61) epichlorohydrin	12.898	57	12601	96.49	ug/L		96
62) n-butyl alcohol	11.823	56	32510	940.22	ug/L		92
63) carbon tetrachloride	11.131	117	64883	25.86	ug/L		98
64) 1,1-dichloropropene	11.100	75	48269	21.49	ug/L		99
65) hexane	9.228	57	28058	12.01	ug/L		97
66) benzene	11.357	78	133992	20.35	ug/L		97
67) 2,2,4-trimethylpentane	11.419	57	105878	19.28	ug/L		95
68) tert-amyl methyl ether	11.425	73	85850	20.75	ug/L		94
69) heptane	11.587	57	19359	16.83	ug/L		92
70) isopropyl acetate	11.304	43	48660	18.29	ug/L		94
71) 1,2-dichloroethane	11.341	62	53865	25.54	ug/L		97
72) trichloroethene	12.059	95	36842	20.51	ug/L		98
74) 2-nitropropane	12.767	41	8740	22.29	ug/L		90
75) 2-chloroethyl vinyl ether	12.804	63	74584	91.32	ug/L		99
76) methyl methacrylate	12.321	100	8245	21.39	ug/L	#	89
77) 1,2-dichloropropane	12.300	63	32974	19.88	ug/L		97
78) dibromomethane	12.431	93	23444	22.61	ug/L		99
79) methylcyclohexane	12.306	83	49401	18.55	ug/L		99
80) bromodichloromethane	12.562	83	53233	22.57	ug/L		98
81) cis-1,3-dichloropropene	13.008	75	52204	19.04	ug/L		93
83) 4-methyl-2-pentanone	13.113	58	9818	18.55	ug/L		99
84) toluene	13.370	92	80249	18.99	ug/L		97
85) 3-methyl-1-butanol	13.113	55	20548	398.56	ug/L		97
86) trans-1,3-dichloropropene	13.527	75	48423	20.36	ug/L		92
87) ethyl methacrylate	13.548	69	33465	18.55	ug/L		96
88) 1,1,2-trichloroethane	13.726	83	23863	19.78	ug/L		96
89) 2-hexanone	13.910	58	7591	17.24	ug/L		94
91) n-butyl ether	14.686	57	116634	16.98	ug/L	#	92
92) tetrachloroethene	13.926	164	39646	21.43	ug/L		98
93) 1,3-dichloropropane	13.899	76	45296	18.84	ug/L		94
94) butyl acetate	13.989	56	13847	16.46	ug/L		93
95) 3,3-dimethyl-1-butanol	14.057	57	17012	161.15	ug/L		85
96) dibromochloromethane	14.141	129	45120	21.95	ug/L		100
97) 1,2-dibromoethane	14.287	107	30493	18.80	ug/L		99
98) chlorobenzene	14.733	112	93361	20.45	ug/L		97
99) 1,1,1,2-tetrachloroethane	14.786	131	41548	22.40	ug/L		96
100) ethylbenzene	14.796	91	150512	20.38	ug/L		98
101) m,p-xylene	14.896	106	118696	40.54	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134517.D
Acq On : 16 Sep 2015 9:02 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:49:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102) o-xylene	15.284	106	59147	19.19 ug/L	94
103) styrene	15.284	104	96125	19.43 ug/L	94
105) bromoform	15.504	173	33345	22.46 ug/L	98
107) isopropylbenzene	15.603	105	151554	20.41 ug/L	97
109) cyclohexanone	15.734	98	5152	95.09 ug/L	89
110) bromobenzene	15.955	156	48353	21.58 ug/L	93
111) 1,1,2,2-tetrachloroethane	15.845	83	35523	20.04 ug/L	97
112) trans-1,4-dichloro-2-b...	15.892	53	8688	20.00 ug/L	86
113) 1,2,3-trichloropropane	15.918	110	10222	22.19 ug/L	98
114) n-propylbenzene	15.986	91	172276	21.72 ug/L	97
115) 2-chlorotoluene	16.112	126	38699	20.27 ug/L	87
116) 4-chlorotoluene	16.201	91	110304	21.65 ug/L	96
117) 1,3,5-trimethylbenzene	16.122	105	138005	22.94 ug/L	95
118) tert-butylbenzene	16.453	119	112484	20.77 ug/L	94
119) pentachloroethane	16.505	167	34794	23.55 ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	134155	22.85 ug/L	96
121) sec-butylbenzene	16.652	105	166623	20.85 ug/L	98
122) 1,3-dichlorobenzene	16.809	146	90608	21.65 ug/L	98
123) p-isopropyltoluene	16.762	119	148731	21.31 ug/L	96
124) 1,4-dichlorobenzene	16.883	146	88467	21.50 ug/L	96
125) 1,2-dichlorobenzene	17.260	146	85373	21.33 ug/L	96
126) n-butylbenzene	17.155	92	67635	20.03 ug/L	93
127) 1,2-dibromo-3-chloropr...	18.005	157	8217	18.84 ug/L	93
128) 1,3,5-trichlorobenzene	18.220	180	77256	20.11 ug/L	99
129) 1,2,4-trichlorobenzene	18.859	180	56930	17.96 ug/L	100
130) hexachlorobutadiene	19.001	225	45798	23.48 ug/L	97
131) naphthalene	19.142	128	75518	15.31 ug/L	98
132) 1,2,3-trichlorobenzene	19.389	180	46864	17.87 ug/L	95
133) hexachloroethane	17.533	201	34732	23.11 ug/L	96

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

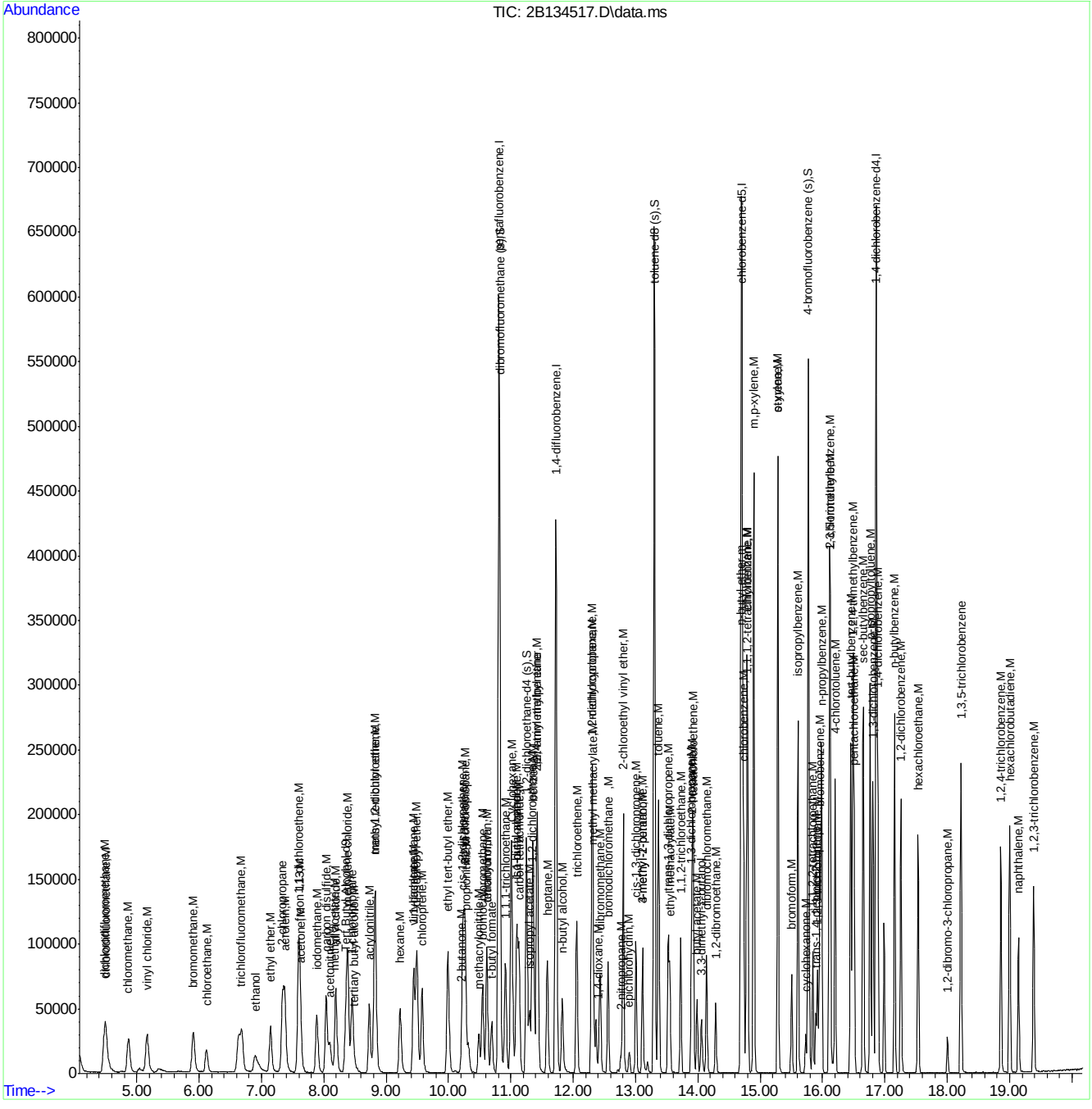
7.7.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5994\
Data File : 2B134517.D
Acq On : 16 Sep 2015 9:02 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91006,v2B5994,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:49:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Wed Jul 29 16:45:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134550.D
Acq On : 17 Sep 2015 10:37 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:17:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.363	65	95692	500.00	ug/L	0.00
5) pentafluorobenzene	10.812	168	433316	50.00	ug/L	0.00
58) 1,4-difluorobenzene	11.724	114	412580	50.00	ug/L	0.00
90) chlorobenzene-d5	14.702	117	352813	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	16.857	152	189771	50.00	ug/L	0.00
System Monitoring Compounds						
51) dibromofluoromethane (s)	10.817	113	144701	50.34	ug/L	0.00
Spiked Amount 50.000 Range 79 - 120 Recovery = 100.68%						
52) 1,2-dichloroethane-d4 (s)	11.252	65	172570	58.34	ug/L	0.00
Spiked Amount 50.000 Range 72 - 123 Recovery = 116.68%						
82) toluene-d8 (s)	13.302	98	455682	51.86	ug/L	0.00
Spiked Amount 50.000 Range 78 - 119 Recovery = 103.72%						
108) 4-bromofluorobenzene (s)	15.771	95	163501	51.33	ug/L	0.00
Spiked Amount 50.000 Range 74 - 119 Recovery = 102.66%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.489	59	19583	87.78	ug/L	78
3) ethanol	6.900	45	38892	1694.14	ug/L	98
4) 1,4-dioxane	12.411	88	8228	418.27	ug/L	93
9) chlorodifluoromethane	4.509	51	53195	20.97	ug/L	94
10) dichlorodifluoromethane	4.494	85	70312	18.56	ug/L	99
12) chloromethane	4.871	50	62155	17.72	ug/L	96
13) vinyl chloride	5.175	62	61686	19.45	ug/L	99
15) bromomethane	5.904	94	42979	19.41	ug/L	94
16) chloroethane	6.119	64	28669	19.99	ug/L	95
18) trichlorofluoromethane	6.685	101	101502	26.30	ug/L	98
20) ethyl ether	7.152	74	21808	18.07	ug/L	90
21) acrolein	7.377	56	70134	183.65	ug/L	97
22) 2-chloropropane	7.341	43	86117	20.35	ug/L	91
24) 1,1-dichloroethene	7.598	96	38517	18.43	ug/L	87
25) acetone	7.639	43	13221	21.80	ug/L	99
26) allyl chloride	8.195	76	20411	18.13	ug/L	88
27) acetonitrile	8.096	40	24343	187.60	ug/L	88
28) iodomethane	7.891	142	85708	18.89	ug/L	92
29) iso-butyl alcohol	11.100	74	4972	196.51	ug/L #	75
30) carbon disulfide	8.043	76	143907	19.23	ug/L	96
31) methylene chloride	8.384	84	44410	18.52	ug/L	99
32) methyl acetate	8.185	74	6457	19.78	ug/L	97
33) 1-chloropropane	8.452	42	79484	19.90	ug/L	95
34) methyl tert butyl ether	8.819	73	114083	19.76	ug/L	98
35) trans-1,2-dichloroethene	8.830	96	43142	18.41	ug/L	87
36) di-isopropyl ether	9.495	45	131424	18.78	ug/L	98
37) 2-butanone	10.209	72	3887	17.25	ug/L	89
38) 1,1-dichloroethane	9.443	63	77600	19.89	ug/L	98
39) chloroprene	9.579	53	61837	19.83	ug/L	92
40) acrylonitrile	8.730	53	66673	90.90	ug/L	98
41) vinyl acetate	9.448	86	4880	12.76	ug/L #	70
42) ethyl tert-butyl ether	9.994	59	116606	19.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134550.D
Acq On : 17 Sep 2015 10:37 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:17:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) ethyl acetate	10.256	45	4665	18.07 ug/L #	59
44) 2,2-dichloropropane	10.261	77	74690	21.56 ug/L	91
45) cis-1,2-dichloroethene	10.230	96	46674	17.97 ug/L	91
46) propionitrile	10.277	54	50470	191.31 ug/L	97
47) bromochloromethane	10.549	128	25506	19.53 ug/L	98
48) tetrahydrofuran	10.623	42	9451	16.85 ug/L	96
49) chloroform	10.612	83	80337	19.99 ug/L	98
50) t-butyl formate	10.696	59	27023	18.01 ug/L	95
53) freon 113	7.613	151	40048	21.63 ug/L	95
54) methacrylonitrile	10.486	41	22215	18.61 ug/L	93
55) 1,1,1-trichloroethane	10.916	97	75552	21.69 ug/L	96
56) Cyclohexane	11.016	84	58849	18.75 ug/L	96
61) epichlorohydrin	12.898	57	15353	103.02 ug/L	93
62) n-butyl alcohol	11.823	56	39581	1003.12 ug/L	95
63) carbon tetrachloride	11.131	117	73155	25.55 ug/L	100
64) 1,1-dichloropropene	11.100	75	55405	21.62 ug/L	97
65) hexane	9.228	57	39108	14.67 ug/L	96
66) benzene	11.357	78	154882	20.61 ug/L	99
67) 2,2,4-trimethylpentane	11.420	57	130739	20.86 ug/L	91
68) tert-amyl methyl ether	11.425	73	100867	21.36 ug/L	95
69) heptane	11.582	57	24183	18.42 ug/L	95
70) isopropyl acetate	11.304	43	61020	20.09 ug/L	99
71) 1,2-dichloroethane	11.341	62	61371	25.50 ug/L	95
72) trichloroethene	12.059	95	42705	20.83 ug/L	94
74) 2-nitropropane	12.767	41	10399	23.24 ug/L	89
75) 2-chloroethyl vinyl ether	12.804	63	90099	96.67 ug/L	98
76) methyl methacrylate	12.321	100	8877	20.18 ug/L #	80
77) 1,2-dichloropropane	12.301	63	38490	20.34 ug/L	98
78) dibromomethane	12.432	93	26510	22.41 ug/L	97
79) methylcyclohexane	12.306	83	58874	19.37 ug/L	94
80) bromodichloromethane	12.563	83	61090	22.70 ug/L	100
81) cis-1,3-dichloropropene	13.008	75	62189	19.88 ug/L	89
83) 4-methyl-2-pentanone	13.113	58	11719	19.41 ug/L	93
84) toluene	13.370	92	90409	18.75 ug/L	97
85) 3-methyl-1-butanol	13.113	55	25004	425.00 ug/L	96
86) trans-1,3-dichloropropene	13.527	75	55871	20.59 ug/L	89
87) ethyl methacrylate	13.548	69	38276	18.59 ug/L	89
88) 1,1,2-trichloroethane	13.727	83	27921	20.28 ug/L	99
89) 2-hexanone	13.910	58	9256	18.42 ug/L	97
91) n-butyl ether	14.686	57	140941	17.93 ug/L #	92
92) tetrachloroethene	13.921	164	45163	21.35 ug/L	97
93) 1,3-dichloropropane	13.900	76	51085	18.57 ug/L	90
94) butyl acetate	13.989	56	17463	18.14 ug/L	94
95) 3,3-dimethyl-1-butanol	14.057	57	20874	172.87 ug/L	95
96) dibromochloromethane	14.141	129	50020	21.27 ug/L	99
97) 1,2-dibromoethane	14.288	107	35666	19.22 ug/L	95
98) chlorobenzene	14.733	112	101696	19.47 ug/L	98
99) 1,1,1,2-tetrachloroethane	14.786	131	45780	21.58 ug/L	96
100) ethylbenzene	14.796	91	167283	19.81 ug/L	96
101) m,p-xylene	14.896	106	131849	39.37 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134550.D
Acq On : 17 Sep 2015 10:37 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:17:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) o-xylene	15.279	106	66731	18.93	ug/L	93
103) styrene	15.284	104	105609	18.66	ug/L	94
105) bromoform	15.504	173	37885	22.31	ug/L	97
107) isopropylbenzene	15.604	105	173666	20.23	ug/L	97
109) cyclohexanone	15.729	98	9576	152.90	ug/L #	70
110) bromobenzene	15.955	156	53759	20.76	ug/L	94
111) 1,1,2,2-tetrachloroethane	15.845	83	40425	19.73	ug/L	97
112) trans-1,4-dichloro-2-b...	15.892	53	9828	19.57	ug/L	84
113) 1,2,3-trichloropropane	15.918	110	11756	22.08	ug/L	96
114) n-propylbenzene	15.981	91	191810	20.92	ug/L	97
115) 2-chlorotoluene	16.107	126	44325	20.08	ug/L	92
116) 4-chlorotoluene	16.201	91	121772	20.68	ug/L	98
117) 1,3,5-trimethylbenzene	16.123	105	149560	21.51	ug/L	96
118) tert-butylbenzene	16.448	119	125803	20.10	ug/L	92
119) pentachloroethane	16.500	167	39152	22.93	ug/L	97
120) 1,2,4-trimethylbenzene	16.484	105	148573	21.89	ug/L	95
121) sec-butylbenzene	16.652	105	185189	20.04	ug/L	97
122) 1,3-dichlorobenzene	16.804	146	98647	20.40	ug/L	99
123) p-isopropyltoluene	16.762	119	165558	20.52	ug/L	98
124) 1,4-dichlorobenzene	16.883	146	94186	19.80	ug/L	97
125) 1,2-dichlorobenzene	17.255	146	94678	20.46	ug/L	96
126) n-butylbenzene	17.156	92	76053	19.48	ug/L	94
127) 1,2-dibromo-3-chloropr...	18.005	157	9420	18.68	ug/L	84
128) 1,3,5-trichlorobenzene	18.220	180	88452	19.92	ug/L	98
129) 1,2,4-trichlorobenzene	18.860	180	66516	18.15	ug/L	95
130) hexachlorobutadiene	19.001	225	49704	22.05	ug/L	99
131) naphthalene	19.143	128	90146	15.81	ug/L	99
132) 1,2,3-trichlorobenzene	19.384	180	53273	17.57	ug/L	92
133) hexachloroethane	17.533	201	38804	22.34	ug/L	97

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

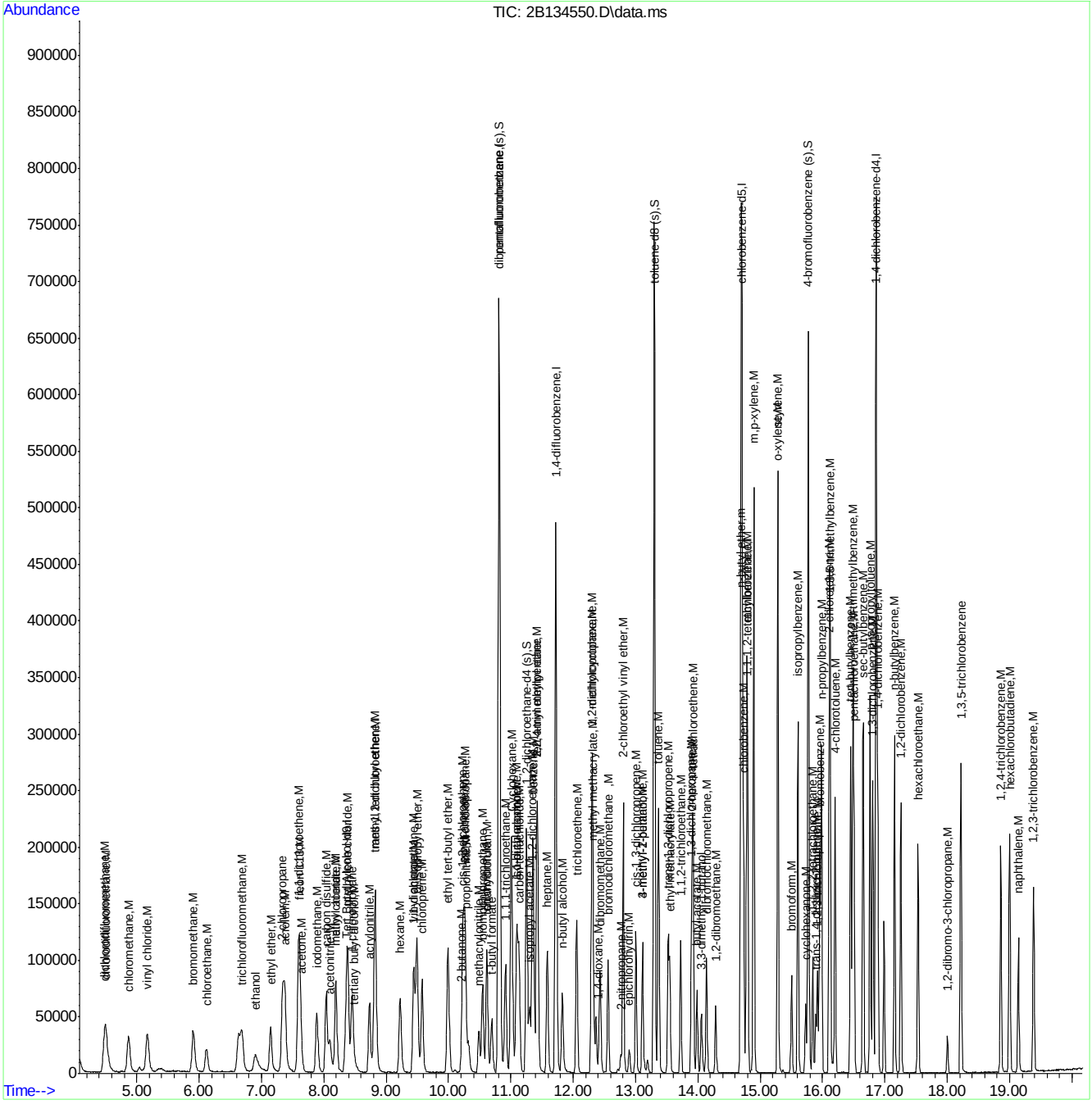
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2b\v2b5996\
Data File : 2B134550.D
Acq On : 17 Sep 2015 10:37 am
Operator : BridgetK
Sample : cc5926-20
Misc : ms91224,v2B5996,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 16:17:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2B5926.M
Quant Title : SW-846 Method 8260, db624, 60mx0.25mmx1.4um
QLast Update : Thu Sep 17 12:13:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147243.D
Acq On : 14 Aug 2015 4:37 pm
Operator : BridgetK
Sample : ic6180-0.2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 09:43:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) tert butyl alcohol-d9	7.564	65	92026	500.00 ug/L	-0.02
5) pentafluorobenzene	10.296	168	361388	50.00 ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	411272	50.00 ug/L	-0.02
78) chlorobenzene-d5	15.654	117	359447	50.00 ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	219690	50.00 ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.306	113	125318	49.45 ug/L	-0.02
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.90%		
43) 1,2-dichloroethane-d4 (s)	10.846	65	129727	49.77 ug/L	-0.02
Spiked Amount 50.000	Range 73 - 122		Recovery = 99.54%		
70) toluene-d8 (s)	13.641	98	438574	49.10 ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.20%		
95) 4-bromofluorobenzene (s)	17.133	95	173541	49.78 ug/L	-0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.56%		

Target Compounds

					Qvalue
7) dichlorodifluoromethane	3.947	85	631	0.19 ug/L #	48
9) vinyl chloride	4.539	62	711	0.19 ug/L	93
12) trichlorofluoromethane	5.860	101	676	0.15 ug/L #	59
20) iodomethane	7.082	142	1061	0.20 ug/L	86
21) carbon disulfide	7.203	76	1843	0.21 ug/L	87
25) methyl tert butyl ether	7.989	73	1667	0.21 ug/L #	54
27) di-isopropyl ether	8.723	45	1999	0.20 ug/L	97
29) 1,1-dichloroethane	8.707	63	956	0.19 ug/L	77
30) chloroprene	8.833	53	761	0.20 ug/L	81
31) acrylonitrile	7.984	53	796	0.97 ug/L	87
33) ethyl tert-butyl ether	9.279	59	1743	0.20 ug/L	85
49) iso-octane	11.004	57	1974	0.22 ug/L	85
53) carbon tetrachloride	10.626	117	928	0.23 ug/L	85
54) 1,1-dichloropropene	10.616	75	820	0.23 ug/L	73
56) benzene	10.946	78	2396	0.22 ug/L	83
61) trichloroethene	11.885	130	562	0.19 ug/L	90
63) 2-chloroethyl vinyl ether	12.980	63	1250	0.83 ug/L	90
65) 1,2-dichloropropane	12.241	63	613	0.21 ug/L	91
66) dibromomethane	12.419	93	313	0.18 ug/L #	78
67) methylcyclohexane	12.189	83	831	0.19 ug/L	91
68) bromodichloromethane	12.608	83	862	0.22 ug/L	75
69) cis-1,3-dichloropropene	13.253	75	938	0.21 ug/L	69
72) toluene	13.746	92	1301	0.20 ug/L	84
74) trans-1,3-dichloropropene	14.013	75	767	0.19 ug/L	92
76) 1,1,2-trichloroethane	14.286	83	390	0.20 ug/L	78
80) tetrachloroethene	14.511	164	560	0.22 ug/L	91
81) 1,3-dichloropropane	14.538	76	739	0.19 ug/L	81
83) dibromochloromethane	14.857	129	614	0.20 ug/L	69
84) 1,2-dibromoethane	15.067	107	448	0.19 ug/L	79
86) chlorobenzene	15.696	112	1579	0.21 ug/L	84
87) 1,1,1,2-tetrachloroethane	15.780	131	611	0.20 ug/L	90
88) ethylbenzene	15.796	91	2720	0.22 ug/L	94
89) m,p-xylene	15.943	106	1841	0.39 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147243.D
Acq On : 14 Aug 2015 4:37 pm
Operator : BridgetK
Sample : ic6180-0.2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 09:43:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

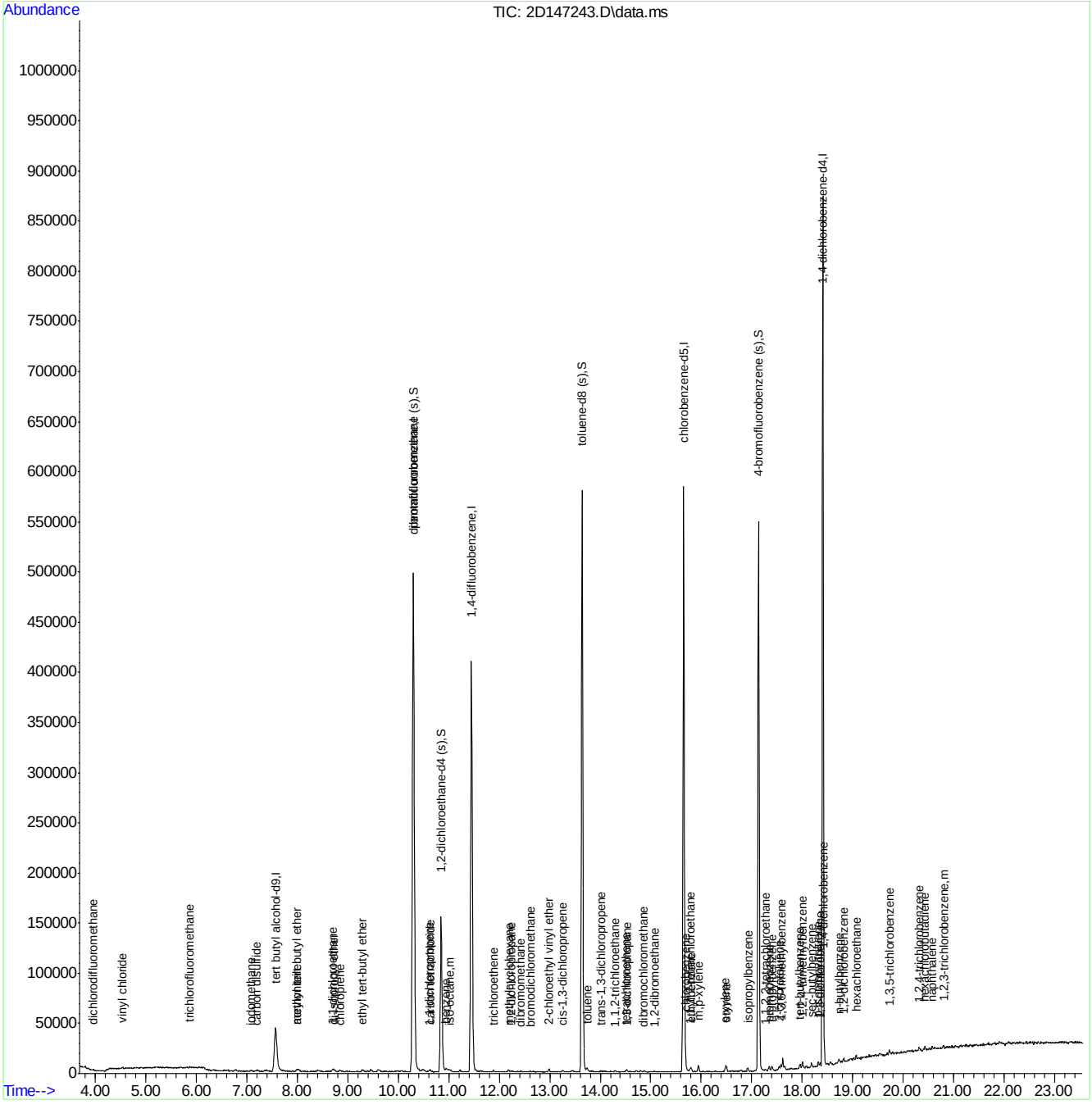
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) o-xylene	16.477	106	884	0.17 ug/L	95
91) styrene	16.498	104	1627	0.20 ug/L	91
94) isopropylbenzene	16.918	105	2730	0.20 ug/L	86
97) bromobenzene	17.348	156	815	0.20 ug/L	92
98) 1,1,2,2-tetrachloroethane	17.274	83	654	0.20 ug/L	96
101) n-propylbenzene	17.406	91	3014	0.20 ug/L	98
102) 2-chlorotoluene	17.542	126	745	0.21 ug/L	96
104) 1,3,5-trimethylbenzene	17.579	105	2502	0.22 ug/L	95
105) tert-butylbenzene	17.956	119	2258	0.22 ug/L	89
107) 1,2,4-trimethylbenzene	18.008	105	2320	0.20 ug/L	88
108) sec-butylbenzene	18.187	105	3021	0.20 ug/L	88
109) 1,3-dichlorobenzene	18.354	146	1452	0.20 ug/L	89
110) p-isopropyltoluene	18.318	119	2747	0.20 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	1561	0.21 ug/L	95
112) 1,2-dichlorobenzene	18.826	146	1481	0.20 ug/L	87
114) n-butylbenzene	18.727	92	1225	0.20 ug/L	99
116) 1,3,5-trichlorobenzene	19.733	180	1478	0.23 ug/L	84
117) hexachlorobutadiene	20.425	225	708	0.21 ug/L	88
118) naphthalene	20.578	128	1771	0.21 ug/L	90
119) 1,2,4-trichlorobenzene	20.315	180	942	0.17 ug/L	89
120) 1,2,3-trichlorobenzene	20.798	180	967	0.21 ug/L	85
121) hexachloroethane	19.078	201	489	0.18 ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147243.D
Acq On : 14 Aug 2015 4:37 pm
Operator : BridgetK
Sample : ic6180-0.2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 09:43:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147244.D
Acq On : 14 Aug 2015 5:07 pm
Operator : BridgetK
Sample : ic6180-0.5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 09:49:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.564	65	83607	500.00	ug/L	-0.02
5) pentafluorobenzene	10.296	168	338994	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	385382	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	342815	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	207351	50.00	ug/L	0.00

System Monitoring Compounds						
42) dibromofluoromethane (s)	10.312	113	118413	49.81	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.62%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	122262	50.01	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.02%			
70) toluene-d8 (s)	13.641	98	413290	49.37	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.74%			
95) 4-bromofluorobenzene (s)	17.138	95	163107	49.57	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.14%			

Target Compounds						Qvalue
7) dichlorodifluoromethane	3.936	85	1488	0.47	ug/L	71
8) chloromethane	4.277	50	2330	0.57	ug/L	80
9) vinyl chloride	4.529	62	1818	0.53	ug/L	91
12) trichlorofluoromethane	5.887	101	2226	0.53	ug/L	88
18) allyl chloride	7.397	76	639	0.51	ug/L #	17
20) iodomethane	7.087	142	2348	0.48	ug/L	99
21) carbon disulfide	7.218	76	4312	0.53	ug/L	82
25) methyl tert butyl ether	8.000	73	4056	0.55	ug/L	97
27) di-isopropyl ether	8.728	45	4737	0.52	ug/L	93
29) 1,1-dichloroethane	8.697	63	2509	0.53	ug/L	87
30) chloroprene	8.833	53	1765	0.49	ug/L	97
31) acrylonitrile	7.989	53	2015	2.63	ug/L	90
33) ethyl tert-butyl ether	9.289	59	3957	0.49	ug/L	93
35) 2,2-dichloropropane	9.614	77	2353	0.54	ug/L	78
37) propionitrile	9.714	54	1371	5.14	ug/L	98
38) tert-Butyl Formate	10.139	59	1078	0.47	ug/L #	79
41) chloroform	10.055	83	2451	0.53	ug/L	84
44) freon 113	6.773	151	883	0.47	ug/L #	82
46) 1,1,1-trichloroethane	10.390	97	2090	0.50	ug/L	96
47) cyclohexane	10.474	84	1842	0.53	ug/L	73
49) iso-octane	10.993	57	4057	0.49	ug/L	92
53) carbon tetrachloride	10.642	117	1923	0.50	ug/L	95
54) 1,1-dichloropropene	10.600	75	1643	0.50	ug/L	80
56) benzene	10.957	78	5445	0.53	ug/L	92
60) 1,2-dichloroethane	10.967	62	1773	0.53	ug/L	90
61) trichloroethene	11.885	130	1400	0.51	ug/L	93
63) 2-chloroethyl vinyl ether	12.991	63	3275	2.32	ug/L	92
64) methyl methacrylate	12.294	69	696	0.55	ug/L #	55
65) 1,2-dichloropropane	12.236	63	1425	0.53	ug/L	95
66) dibromomethane	12.430	93	801	0.51	ug/L	89
67) methylcyclohexane	12.183	83	2022	0.50	ug/L	76
68) bromodichloromethane	12.613	83	1922	0.53	ug/L	87
69) cis-1,3-dichloropropene	13.253	75	2237	0.52	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147244.D
Acq On : 14 Aug 2015 5:07 pm
Operator : BridgetK
Sample : ic6180-0.5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 09:49:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

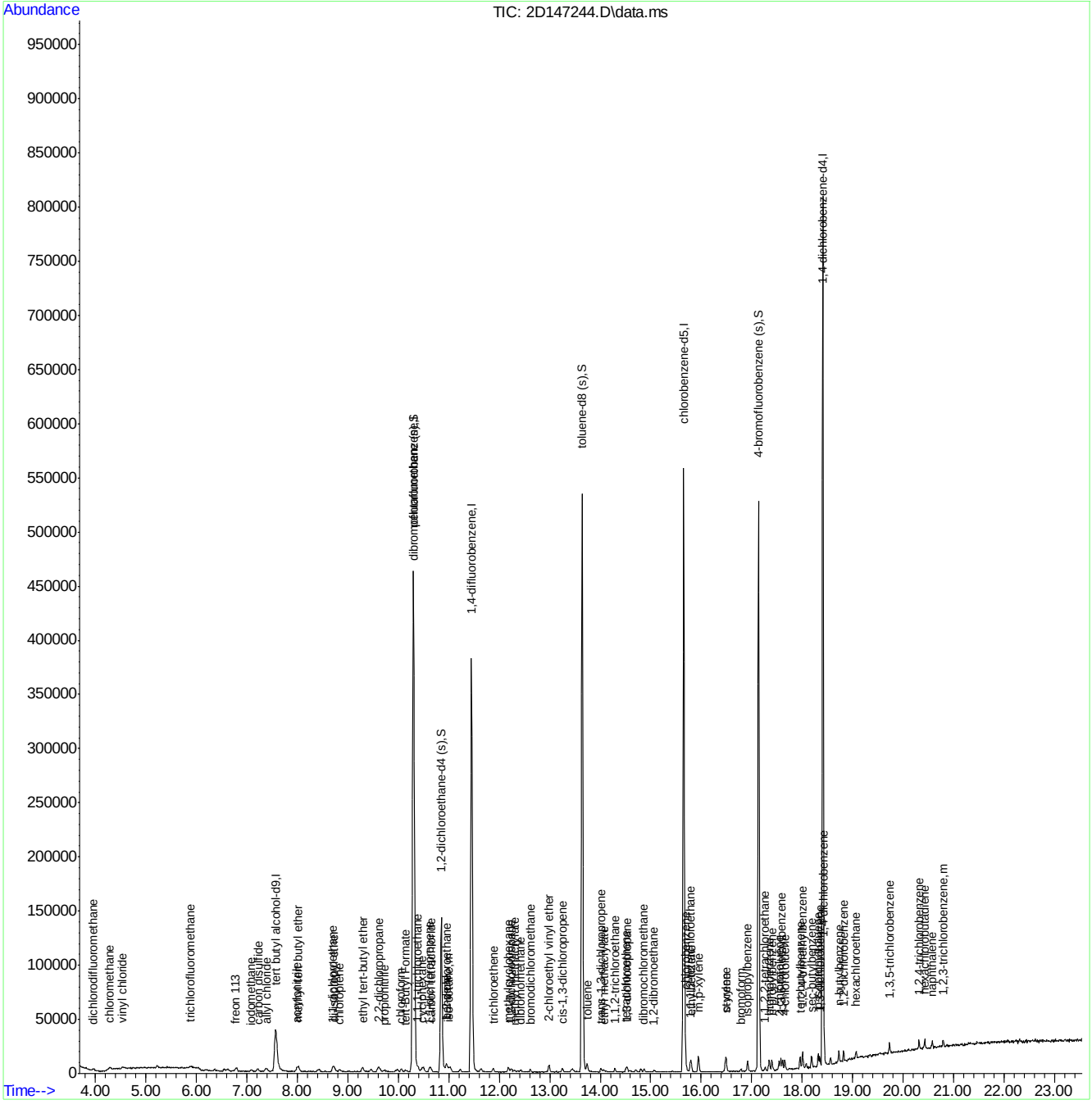
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
72) toluene	13.741	92	3120	0.51 ug/L #	75
74) trans-1,3-dichloropropene	14.019	75	2134	0.56 ug/L	97
75) ethyl methacrylate	14.060	69	1268	0.48 ug/L	90
76) 1,1,2-trichloroethane	14.291	83	910	0.49 ug/L	92
80) tetrachloroethene	14.506	164	1294	0.52 ug/L #	69
81) 1,3-dichloropropane	14.532	76	1986	0.55 ug/L	88
83) dibromochloromethane	14.868	129	1590	0.54 ug/L	92
84) 1,2-dibromoethane	15.057	107	1187	0.52 ug/L	80
86) chlorobenzene	15.691	112	3661	0.51 ug/L	94
87) 1,1,1,2-tetrachloroethane	15.780	131	1512	0.52 ug/L	89
88) ethylbenzene	15.801	91	6215	0.52 ug/L	89
89) m,p-xylene	15.943	106	4651	1.02 ug/L	99
90) o-xylene	16.483	106	2465	0.51 ug/L #	78
91) styrene	16.499	104	4005	0.52 ug/L	91
92) bromoform	16.787	173	1171	0.54 ug/L	95
94) isopropylbenzene	16.918	105	6451	0.51 ug/L	95
97) bromobenzene	17.348	156	2118	0.55 ug/L	84
98) 1,1,2,2-tetrachloroethane	17.269	83	1697	0.56 ug/L	100
101) n-propylbenzene	17.400	91	7372	0.52 ug/L	99
102) 2-chlorotoluene	17.542	126	1605	0.49 ug/L	92
103) 4-chlorotoluene	17.657	91	5098	0.55 ug/L	89
104) 1,3,5-trimethylbenzene	17.584	105	5513	0.50 ug/L	98
105) tert-butylbenzene	17.956	119	5019	0.52 ug/L	95
107) 1,2,4-trimethylbenzene	18.009	105	5406	0.50 ug/L	98
108) sec-butylbenzene	18.187	105	7169	0.51 ug/L	96
109) 1,3-dichlorobenzene	18.349	146	3737	0.54 ug/L	90
110) p-isopropyltoluene	18.313	119	6957	0.55 ug/L	95
111) 1,4-dichlorobenzene	18.438	146	3848	0.55 ug/L	97
112) 1,2-dichlorobenzene	18.821	146	3624	0.53 ug/L	94
114) n-butylbenzene	18.732	92	2820	0.49 ug/L	97
116) 1,3,5-trichlorobenzene	19.733	180	3169	0.51 ug/L	96
117) hexachlorobutadiene	20.431	225	1679	0.52 ug/L	97
118) naphthalene	20.578	128	4336	0.54 ug/L	92
119) 1,2,4-trichlorobenzene	20.315	180	2692	0.53 ug/L	90
120) 1,2,3-trichlorobenzene	20.793	180	2271	0.53 ug/L	95
121) hexachloroethane	19.073	201	1271	0.51 ug/L	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147244.D
Acq On : 14 Aug 2015 5:07 pm
Operator : BridgetK
Sample : ic6180-0.5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 09:49:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147245.D
Acq On : 14 Aug 2015 5:37 pm
Operator : BridgetK
Sample : ic6180-1
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 09:58:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.564	65	86268	500.00	ug/L	-0.02
5) pentafluorobenzene	10.291	168	346979	50.00	ug/L	-0.02
50) 1,4-difluorobenzene	11.449	114	396990	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	356640	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	214574	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.306	113	121154	49.79	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.58%			
43) 1,2-dichloroethane-d4 (s)	10.847	65	124617	49.80	ug/L	-0.02
Spiked Amount 50.000	Range 73 - 122		Recovery = 99.60%			
70) toluene-d8 (s)	13.641	98	431914	50.09	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.18%			
95) 4-bromofluorobenzene (s)	17.138	95	171426	50.35	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.70%			

Target Compounds

						Qvalue
3) ethyl alcohol	6.180	45	3364	101.56	ug/L #	78
6) chlorodifluoromethane	3.957	51	2696	0.97	ug/L	99
7) dichlorodifluoromethane	3.926	85	3446	1.07	ug/L	80
8) chloromethane	4.277	50	4078	0.97	ug/L	91
9) vinyl chloride	4.534	62	3552	1.01	ug/L	98
10) bromomethane	5.221	94	2627	1.00	ug/L	92
11) chloroethane	5.409	64	1735	0.98	ug/L	85
12) trichlorofluoromethane	5.902	101	4445	1.03	ug/L	80
13) ethyl ether	6.353	74	1208	0.96	ug/L #	85
14) acrolein	6.610	56	4175	9.81	ug/L	87
15) 1,1-dichloroethene	6.778	96	2504	1.01	ug/L	85
18) allyl chloride	7.381	76	1337	1.04	ug/L #	75
20) iodomethane	7.077	142	5414	1.08	ug/L	96
21) carbon disulfide	7.208	76	8343	1.00	ug/L	98
22) methylene chloride	7.585	84	2733	0.96	ug/L	91
25) methyl tert butyl ether	8.000	73	7259	0.97	ug/L	98
26) trans-1,2-dichloroethene	8.026	96	2842	1.03	ug/L	94
27) di-isopropyl ether	8.723	45	9486	1.01	ug/L	92
29) 1,1-dichloroethane	8.692	63	4798	0.99	ug/L	87
30) chloroprene	8.828	53	3698	1.01	ug/L	94
31) acrylonitrile	7.973	53	3914	4.99	ug/L	81
33) ethyl tert-butyl ether	9.289	59	8512	1.04	ug/L	97
35) 2,2-dichloropropane	9.609	77	4534	1.01	ug/L	84
36) cis-1,2-dichloroethene	9.593	96	2858	0.94	ug/L	96
37) propionitrile	9.709	54	2711	9.93	ug/L	89
38) tert-Butyl Formate	10.139	59	2579	1.11	ug/L	95
39) bromochloromethane	9.981	128	1288	0.89	ug/L	99
41) chloroform	10.055	83	4868	1.02	ug/L	91
44) freon 113	6.778	151	2095	1.10	ug/L #	78
46) 1,1,1-trichloroethane	10.385	97	4250	1.00	ug/L	95
47) cyclohexane	10.469	84	3422	0.95	ug/L	91
49) iso-octane	10.993	57	9112	1.07	ug/L	94
53) carbon tetrachloride	10.632	117	3922	1.00	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147245.D
Acq On : 14 Aug 2015 5:37 pm
Operator : BridgetK
Sample : ic6180-1
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 09:58:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
54) 1,1-dichloropropene	10.616	75	3468	1.02 ug/L	97
56) benzene	10.946	78	10558	1.00 ug/L	97
57) tert-amyl methyl ether	11.025	87	1910	1.05 ug/L	97
58) heptane	11.224	57	1788	1.09 ug/L	87
60) 1,2-dichloroethane	10.967	62	3502	1.02 ug/L	92
61) trichloroethene	11.879	130	2925	1.03 ug/L	96
63) 2-chloroethyl vinyl ether	12.980	63	7978	5.48 ug/L	98
64) methyl methacrylate	12.294	69	1137	0.88 ug/L #	74
65) 1,2-dichloropropane	12.231	63	2832	1.01 ug/L	96
66) dibromomethane	12.425	93	1681	1.03 ug/L	87
67) methylcyclohexane	12.183	83	4134	1.00 ug/L	98
68) bromodichloromethane	12.608	83	3724	1.00 ug/L	92
69) cis-1,3-dichloropropene	13.243	75	4326	0.99 ug/L	89
72) toluene	13.735	92	6369	1.01 ug/L	97
74) trans-1,3-dichloropropene	14.013	75	3670	0.94 ug/L	96
75) ethyl methacrylate	14.060	69	2851	1.05 ug/L	81
76) 1,1,2-trichloroethane	14.291	83	1918	1.01 ug/L	95
80) tetrachloroethene	14.511	164	2531	0.98 ug/L	91
81) 1,3-dichloropropane	14.532	76	3672	0.98 ug/L	98
83) dibromochloromethane	14.868	129	2881	0.95 ug/L	86
84) 1,2-dibromoethane	15.062	107	2387	1.01 ug/L	83
85) n-butyl ether	15.675	57	12048	1.00 ug/L #	67
86) chlorobenzene	15.696	112	7571	1.01 ug/L	95
87) 1,1,1,2-tetrachloroethane	15.791	131	2946	0.98 ug/L	95
88) ethylbenzene	15.801	91	12651	1.01 ug/L	97
89) m,p-xylene	15.943	106	9604	2.03 ug/L #	78
90) o-xylene	16.483	106	5217	1.04 ug/L	82
91) styrene	16.493	104	7910	0.99 ug/L	89
92) bromoform	16.782	173	2127	0.95 ug/L	98
94) isopropylbenzene	16.918	105	13414	1.03 ug/L	95
97) bromobenzene	17.348	156	3817	0.97 ug/L	93
98) 1,1,2,2-tetrachloroethane	17.269	83	2829	0.90 ug/L	98
99) trans-1,4-dichloro-2-b...	17.332	53	833	1.09 ug/L #	67
100) 1,2,3-trichloropropane	17.348	110	848	1.03 ug/L #	68
101) n-propylbenzene	17.406	91	14917	1.02 ug/L	95
102) 2-chlorotoluene	17.542	126	3572	1.05 ug/L	91
103) 4-chlorotoluene	17.657	91	9235	0.97 ug/L	94
104) 1,3,5-trimethylbenzene	17.579	105	11609	1.03 ug/L	96
105) tert-butylbenzene	17.961	119	10272	1.03 ug/L	97
106) pentachloroethane	18.019	167	2633	0.99 ug/L	91
107) 1,2,4-trimethylbenzene	18.003	105	11400	1.03 ug/L	95
108) sec-butylbenzene	18.187	105	14923	1.02 ug/L	98
109) 1,3-dichlorobenzene	18.349	146	6969	0.97 ug/L	95
110) p-isopropyltoluene	18.318	119	12966	0.98 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	7008	0.97 ug/L	94
112) 1,2-dichlorobenzene	18.821	146	7086	0.99 ug/L	98
114) n-butylbenzene	18.727	92	6038	1.02 ug/L	99
116) 1,3,5-trichlorobenzene	19.733	180	6461	1.01 ug/L	94
117) hexachlorobutadiene	20.431	225	3345	1.00 ug/L	91
118) naphthalene	20.578	128	8125	0.98 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147245.D
Acq On : 14 Aug 2015 5:37 pm
Operator : BridgetK
Sample : ic6180-1
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 09:58:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) 1,2,4-trichlorobenzene	20.315	180	5306	1.00 ug/L	92
120) 1,2,3-trichlorobenzene	20.793	180	4547	1.02 ug/L	87
121) hexachloroethane	19.078	201	2683	1.04 ug/L	95

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

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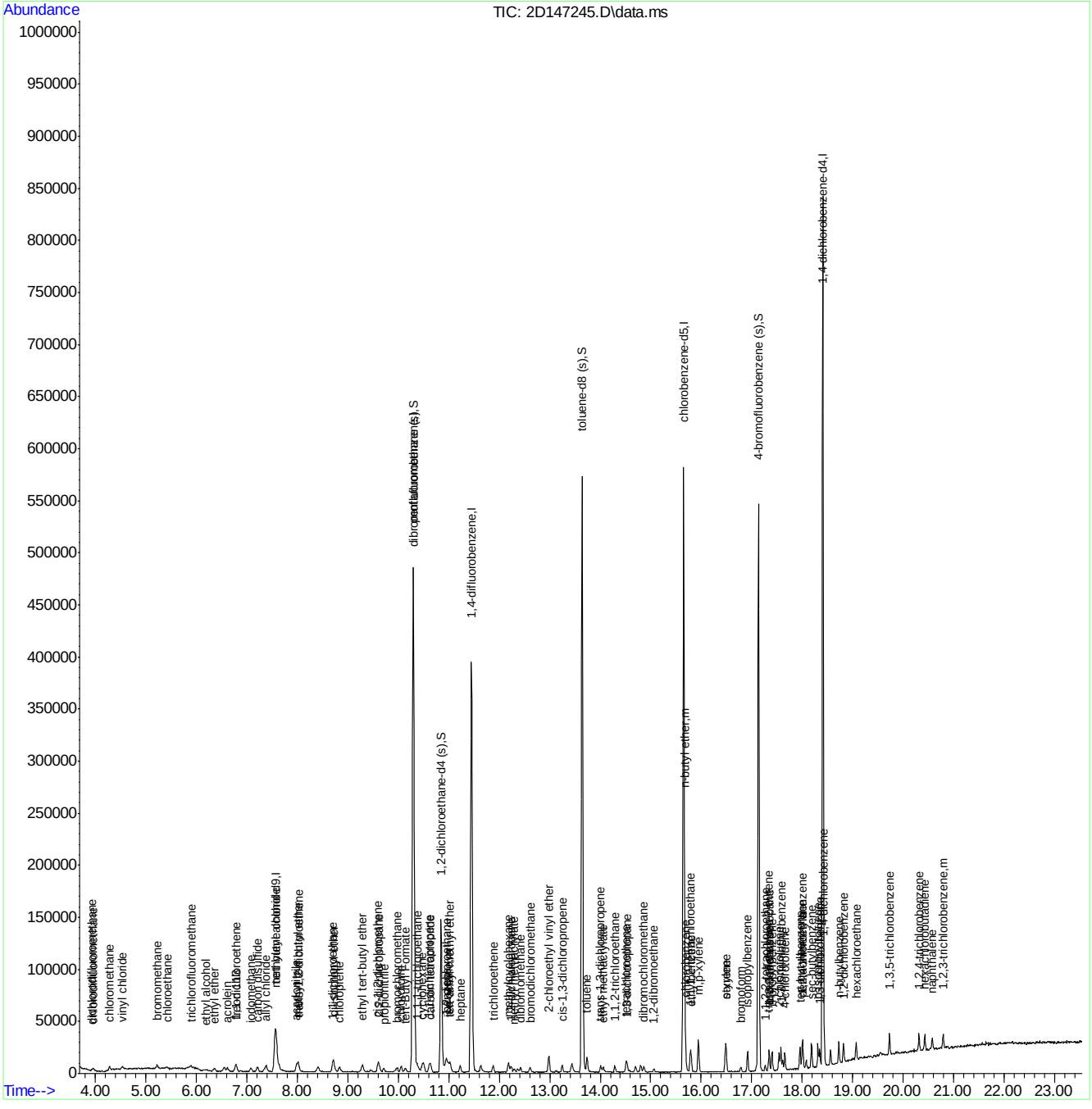
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147245.D
Acq On : 14 Aug 2015 5:37 pm
Operator : BridgetK
Sample : ic6180-1
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 09:58:56 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147246.D
Acq On : 14 Aug 2015 6:08 pm
Operator : BridgetK
Sample : ic6180-2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 10:00:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.570	65	84732	500.00	ug/L	-0.01
5) pentafluorobenzene	10.296	168	338365	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	385574	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	355726	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	211802	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.312	113	119583	50.40	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.80%			
43) 1,2-dichloroethane-d4 (s)	10.846	65	122501	50.20	ug/L	-0.02
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.40%			
70) toluene-d8 (s)	13.641	98	423239	50.54	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.08%			
95) 4-bromofluorobenzene (s)	17.138	95	168327	50.08	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.16%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.701	59	2682	11.11	ug/L	94
3) ethyl alcohol	6.170	45	5761	177.08	ug/L #	60
4) 1,4-dioxane	12.398	88	1070	40.27	ug/L #	88
6) chlorodifluoromethane	3.957	51	5269	1.95	ug/L	99
7) dichlorodifluoromethane	3.957	85	6213	1.98	ug/L	80
8) chloromethane	4.277	50	7243	1.77	ug/L	94
9) vinyl chloride	4.534	62	6317	1.85	ug/L	99
10) bromomethane	5.226	94	4569	1.79	ug/L	85
11) chloroethane	5.415	64	3147	1.82	ug/L	77
12) trichlorofluoromethane	5.892	101	7717	1.83	ug/L	96
13) ethyl ether	6.353	74	2295	1.86	ug/L	87
14) acrolein	6.615	56	8124	19.57	ug/L	100
15) 1,1-dichloroethene	6.794	96	4574	1.89	ug/L #	80
16) 2-chloropropane	6.547	43	9784	1.87	ug/L	96
18) allyl chloride	7.381	76	2340	1.87	ug/L #	90
20) iodomethane	7.087	142	9465	1.93	ug/L	95
21) carbon disulfide	7.213	76	15427	1.89	ug/L	98
22) methylene chloride	7.590	84	5261	1.89	ug/L	97
25) methyl tert butyl ether	8.005	73	13545	1.85	ug/L	97
26) trans-1,2-dichloroethene	8.020	96	4896	1.82	ug/L	97
27) di-isopropyl ether	8.723	45	17457	1.91	ug/L	94
29) 1,1-dichloroethane	8.702	63	9015	1.91	ug/L	98
30) chloroprene	8.844	53	7209	2.01	ug/L	96
31) acrylonitrile	7.989	53	7268	9.50	ug/L	86
33) ethyl tert-butyl ether	9.294	59	15523	1.94	ug/L	98
35) 2,2-dichloropropane	9.609	77	8047	1.84	ug/L	95
36) cis-1,2-dichloroethene	9.599	96	5461	1.83	ug/L	97
37) propionitrile	9.709	54	5209	19.57	ug/L	99
38) tert-Butyl Formate	10.144	59	4267	1.88	ug/L	97
39) bromochloromethane	9.981	128	2825	1.99	ug/L	89
40) tetrahydrofuran	10.039	42	1178	1.56	ug/L	91
41) chloroform	10.060	83	8679	1.86	ug/L	93
44) freon 113	6.783	151	3562	1.91	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147246.D
Acq On : 14 Aug 2015 6:08 pm
Operator : BridgetK
Sample : ic6180-2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 10:00:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) methacrylonitrile	9.934	67	1484	1.85 ug/L #	79
46) 1,1,1-trichloroethane	10.385	97	8227	1.99 ug/L	95
47) cyclohexane	10.485	84	6962	1.99 ug/L	94
49) iso-octane	10.993	57	15968	1.92 ug/L	96
51) epichlorohydrin	13.122	57	2208	8.83 ug/L	98
52) n-butyl alcohol	11.633	56	6198	82.86 ug/L	95
53) carbon tetrachloride	10.637	117	7650	2.00 ug/L	96
54) 1,1-dichloropropene	10.616	75	6559	1.98 ug/L	98
56) benzene	10.946	78	19044	1.86 ug/L	96
57) tert-amyl methyl ether	11.030	87	3339	1.89 ug/L	96
58) heptane	11.229	57	3121	1.96 ug/L	95
60) 1,2-dichloroethane	10.962	62	6063	1.82 ug/L	89
61) trichloroethene	11.879	130	5342	1.93 ug/L	94
63) 2-chloroethyl vinyl ether	12.980	63	13798	9.76 ug/L	91
64) methyl methacrylate	12.299	69	2570	2.04 ug/L #	73
65) 1,2-dichloropropane	12.246	63	5063	1.87 ug/L	93
66) dibromomethane	12.419	93	3050	1.92 ug/L	82
67) methylcyclohexane	12.183	83	8081	2.00 ug/L	90
68) bromodichloromethane	12.613	83	6766	1.87 ug/L	94
69) cis-1,3-dichloropropene	13.248	75	8230	1.93 ug/L	90
71) 4-methyl-2-pentanone	13.426	58	1789	2.16 ug/L	90
72) toluene	13.741	92	11768	1.93 ug/L	95
73) 3-methyl-1-butanol	13.436	55	4091	31.82 ug/L	96
74) trans-1,3-dichloropropene	14.008	75	7194	1.89 ug/L	99
75) ethyl methacrylate	14.060	69	5187	1.97 ug/L	92
76) 1,1,2-trichloroethane	14.291	83	3695	2.00 ug/L	91
77) 2-hexanone	14.579	58	1288	2.79 ug/L #	74
79) 3,3-Dimethyl-1-butanol	14.805	57	4982	16.32 ug/L #	97
80) tetrachloroethene	14.511	164	4988	1.94 ug/L	98
81) 1,3-dichloropropane	14.538	76	6954	1.85 ug/L	96
82) butyl acetate	14.695	56	3087	1.81 ug/L #	81
83) dibromochloromethane	14.863	129	5882	1.94 ug/L	88
84) 1,2-dibromoethane	15.062	107	4472	1.89 ug/L	97
85) n-butyl ether	15.681	57	22236	1.85 ug/L	70
86) chlorobenzene	15.696	112	14388	1.93 ug/L	90
87) 1,1,1,2-tetrachloroethane	15.780	131	5848	1.95 ug/L	90
88) ethylbenzene	15.796	91	23879	1.91 ug/L	99
89) m,p-xylene	15.948	106	18297	3.87 ug/L	92
90) o-xylene	16.483	106	9468	1.89 ug/L	92
91) styrene	16.493	104	15270	1.92 ug/L	95
92) bromoform	16.782	173	4358	1.94 ug/L	89
94) isopropylbenzene	16.923	105	24411	1.90 ug/L	97
96) cyclohexanone	17.091	55	3982	15.53 ug/L #	83
97) bromobenzene	17.348	156	7233	1.85 ug/L	94
98) 1,1,2,2-tetrachloroethane	17.269	83	6151	1.98 ug/L	98
99) trans-1,4-dichloro-2-b...	17.327	53	1475	1.95 ug/L	84
100) 1,2,3-trichloropropane	17.353	110	1446	1.78 ug/L #	77
101) n-propylbenzene	17.400	91	27304	1.89 ug/L	98
102) 2-chlorotoluene	17.547	126	6526	1.94 ug/L	85
103) 4-chlorotoluene	17.657	91	17577	1.86 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147246.D
Acq On : 14 Aug 2015 6:08 pm
Operator : BridgetK
Sample : ic6180-2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 10:00:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,3,5-trimethylbenzene	17.578	105	21482	1.93 ug/L	95
105) tert-butylbenzene	17.956	119	18361	1.86 ug/L	99
106) pentachloroethane	18.019	167	4885	1.86 ug/L	97
107) 1,2,4-trimethylbenzene	18.008	105	21020	1.92 ug/L	96
108) sec-butylbenzene	18.187	105	27813	1.93 ug/L	98
109) 1,3-dichlorobenzene	18.349	146	13570	1.91 ug/L	97
110) p-isopropyltoluene	18.318	119	24001	1.85 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	13450	1.88 ug/L	97
112) 1,2-dichlorobenzene	18.826	146	13506	1.92 ug/L	99
113) benzyl chloride	18.559	91	14095	1.74 ug/L	99
114) n-butylbenzene	18.727	92	11540	1.98 ug/L	96
115) 1,2-dibromo-3-chloropr...	19.555	157	1415	1.81 ug/L	84
116) 1,3,5-trichlorobenzene	19.733	180	12083	1.92 ug/L	99
117) hexachlorobutadiene	20.431	225	6433	1.94 ug/L	98
118) naphthalene	20.578	128	15541	1.89 ug/L	96
119) 1,2,4-trichlorobenzene	20.315	180	9844	1.89 ug/L	99
120) 1,2,3-trichlorobenzene	20.798	180	8145	1.85 ug/L	99
121) hexachloroethane	19.073	201	4818	1.89 ug/L	91

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

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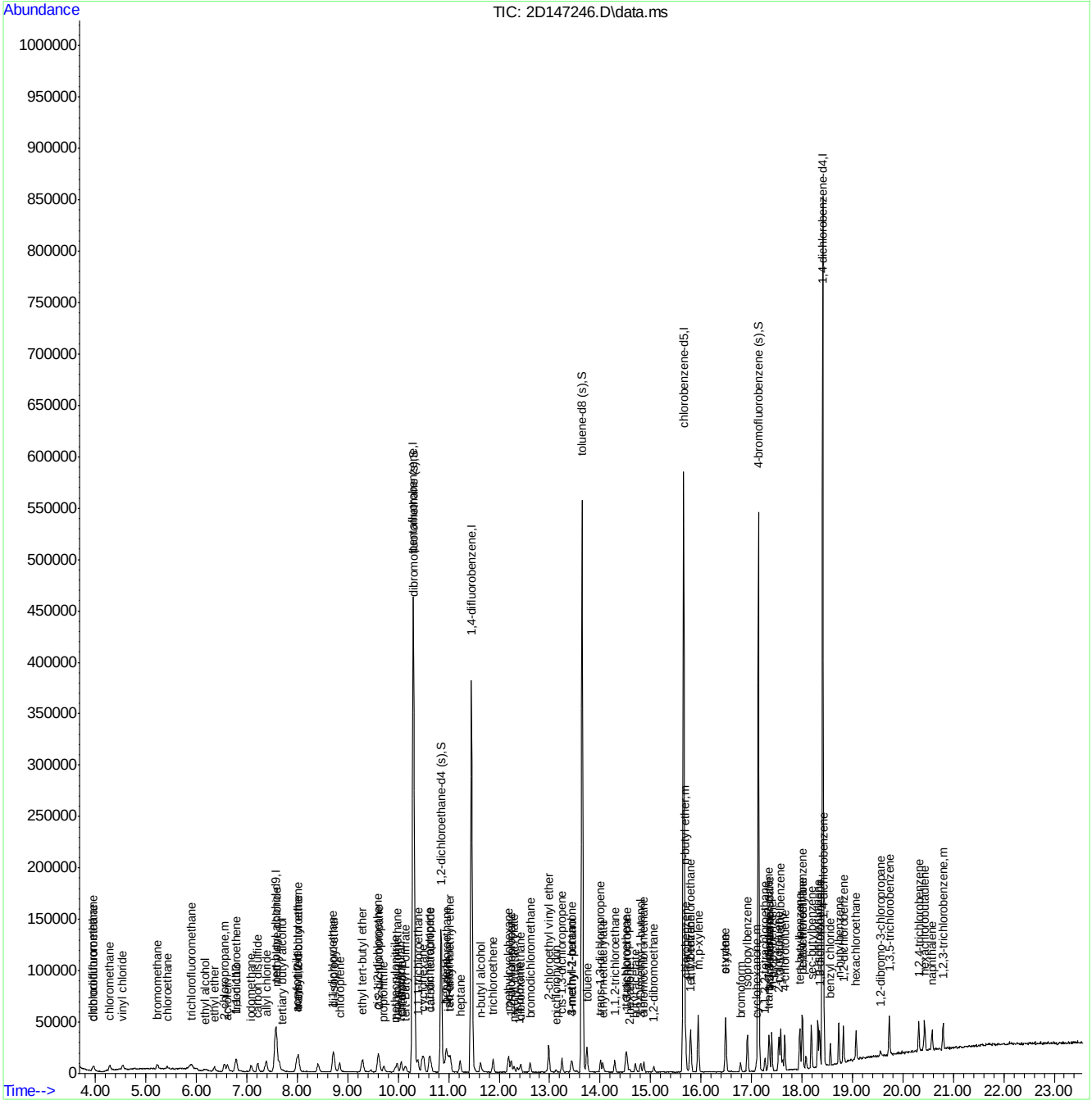
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147246.D
Acq On : 14 Aug 2015 6:08 pm
Operator : BridgetK
Sample : ic6180-2
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 10:00:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147247.D
Acq On : 14 Aug 2015 6:38 pm
Operator : BridgetK
Sample : ic6180-5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 09:18:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.564	65	84665	500.00	ug/L	-0.02
5) pentafluorobenzene	10.296	168	335536	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.450	114	385115	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	349805	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	215224	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.307	113	120005	51.00	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 120		Recovery = 102.00%			
43) 1,2-dichloroethane-d4 (s)	10.847	65	124577	51.48	ug/L	-0.02
Spiked Amount 50.000	Range 73 - 122		Recovery = 102.96%			
70) toluene-d8 (s)	13.641	98	418516	50.03	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.06%			
95) 4-bromofluorobenzene (s)	17.138	95	169354	49.59	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.18%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.696	59	5563	23.05	ug/L	91
3) ethyl alcohol	6.170	45	12740	391.91	ug/L	96
4) 1,4-dioxane	12.399	88	2657	100.07	ug/L #	96
6) chlorodifluoromethane	3.952	51	12764	4.77	ug/L	91
7) dichlorodifluoromethane	3.936	85	17284	5.54	ug/L	95
8) chloromethane	4.277	50	19294	4.77	ug/L	95
9) vinyl chloride	4.529	62	16310	4.81	ug/L	95
10) bromomethane	5.216	94	11375	4.50	ug/L	94
11) chloroethane	5.404	64	7729	4.51	ug/L	89
12) trichlorofluoromethane	5.887	101	20553	4.92	ug/L	95
13) ethyl ether	6.343	74	5351	4.38	ug/L	87
14) acrolein	6.610	56	19151	46.53	ug/L	100
15) 1,1-dichloroethene	6.783	96	10437	4.35	ug/L	99
16) 2-chloropropane	6.553	43	21021	4.05	ug/L	93
17) acetone	6.872	58	754	5.19	ug/L	91
18) allyl chloride	7.376	76	5733	4.63	ug/L	96
19) acetonitrile	7.355	40	9980	45.99	ug/L #	79
20) iodomethane	7.082	142	22781	4.69	ug/L	98
21) carbon disulfide	7.208	76	36009	4.45	ug/L	98
22) methylene chloride	7.585	84	12227	4.43	ug/L	97
23) methyl acetate	7.391	74	1559	5.46	ug/L #	86
24) 1-chloropropane	7.638	63	979	4.54	ug/L	97
25) methyl tert butyl ether	7.994	73	31758	4.38	ug/L	97
26) trans-1,2-dichloroethene	8.021	96	11435	4.30	ug/L	100
27) di-isopropyl ether	8.718	45	44242	4.88	ug/L	91
28) 2-butanone	9.593	72	924	6.11	ug/L	85
29) 1,1-dichloroethane	8.702	63	21745	4.63	ug/L	97
30) chloroprene	8.833	53	18079	5.10	ug/L	98
31) acrylonitrile	7.979	53	16762	22.10	ug/L	98
32) vinyl acetate	8.713	86	1713	5.11	ug/L	80
33) ethyl tert-butyl ether	9.295	59	39384	4.97	ug/L	98
34) ethyl acetate	9.625	45	1439	3.94	ug/L	91
35) 2,2-dichloropropane	9.614	77	19418	4.47	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147247.D
Acq On : 14 Aug 2015 6:38 pm
Operator : BridgetK
Sample : ic6180-5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 09:18:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.593	96	13154	4.45	ug/L		92
37) propionitrile	9.704	54	12516	47.42	ug/L		85
38) tert-Butyl Formate	10.134	59	10567	4.70	ug/L		96
39) bromochloromethane	9.976	128	6514	4.63	ug/L		99
40) tetrahydrofuran	10.044	42	3104	4.16	ug/L		89
41) chloroform	10.060	83	21291	4.61	ug/L		95
44) freon 113	6.773	151	9814	5.31	ug/L		91
45) methacrylonitrile	9.934	67	3552	4.46	ug/L		89
46) 1,1,1-trichloroethane	10.385	97	19037	4.63	ug/L		96
47) cyclohexane	10.480	84	16251	4.68	ug/L		90
48) isobutyl alcohol	10.616	74	1408	62.15	ug/L	#	63
49) iso-octane	10.993	57	42540	5.15	ug/L		99
51) epichlorohydrin	13.122	57	4651	18.62	ug/L		92
52) n-butyl alcohol	11.628	56	13376	179.04	ug/L		98
53) carbon tetrachloride	10.637	117	17773	4.65	ug/L		99
54) 1,1-dichloropropene	10.611	75	15051	4.55	ug/L		95
55) hexane	8.409	86	1868	5.59	ug/L	#	90
56) benzene	10.946	78	44644	4.37	ug/L		95
57) tert-amyl methyl ether	11.030	87	8145	4.63	ug/L		99
58) heptane	11.224	57	7885	4.97	ug/L		99
59) isopropyl acetate	10.909	43	19799	4.41	ug/L		97
60) 1,2-dichloroethane	10.962	62	14855	4.47	ug/L		94
61) trichloroethene	11.885	130	12768	4.61	ug/L		95
63) 2-chloroethyl vinyl ether	12.986	63	32560	23.06	ug/L		99
64) methyl methacrylate	12.288	69	5986	4.75	ug/L	#	69
65) 1,2-dichloropropane	12.236	63	11988	4.43	ug/L		99
66) dibromomethane	12.430	93	7406	4.67	ug/L		93
67) methylcyclohexane	12.184	83	19796	4.91	ug/L		96
68) bromodichloromethane	12.613	83	16268	4.51	ug/L		93
69) cis-1,3-dichloropropene	13.243	75	19075	4.48	ug/L		93
71) 4-methyl-2-pentanone	13.426	58	3408	4.12	ug/L	#	80
72) toluene	13.741	92	28041	4.60	ug/L		94
73) 3-methyl-1-butanol	13.442	55	9334	72.68	ug/L		98
74) trans-1,3-dichloropropene	14.013	75	16758	4.40	ug/L		95
75) ethyl methacrylate	14.055	69	12885	4.90	ug/L		97
76) 1,1,2-trichloroethane	14.291	83	8245	4.48	ug/L		94
77) 2-hexanone	14.574	58	3095	6.71	ug/L		92
79) 3,3-Dimethyl-1-butanol	14.800	57	10376	34.56	ug/L	#	99
80) tetrachloroethene	14.511	164	11535	4.57	ug/L		91
81) 1,3-dichloropropane	14.538	76	16113	4.37	ug/L		95
82) butyl acetate	14.700	56	6706	3.99	ug/L		98
83) dibromochloromethane	14.868	129	13414	4.49	ug/L		99
84) 1,2-dibromoethane	15.062	107	10700	4.61	ug/L		92
85) n-butyl ether	15.681	57	53162	4.49	ug/L		89
86) chlorobenzene	15.696	112	32735	4.47	ug/L		93
87) 1,1,1,2-tetrachloroethane	15.786	131	13788	4.67	ug/L		98
88) ethylbenzene	15.801	91	54965	4.48	ug/L		99
89) m,p-xylene	15.943	106	42259	9.09	ug/L		99
90) o-xylene	16.483	106	22491	4.56	ug/L		91
91) styrene	16.493	104	36381	4.66	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147247.D
Acq On : 14 Aug 2015 6:38 pm
Operator : BridgetK
Sample : ic6180-5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 09:18:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

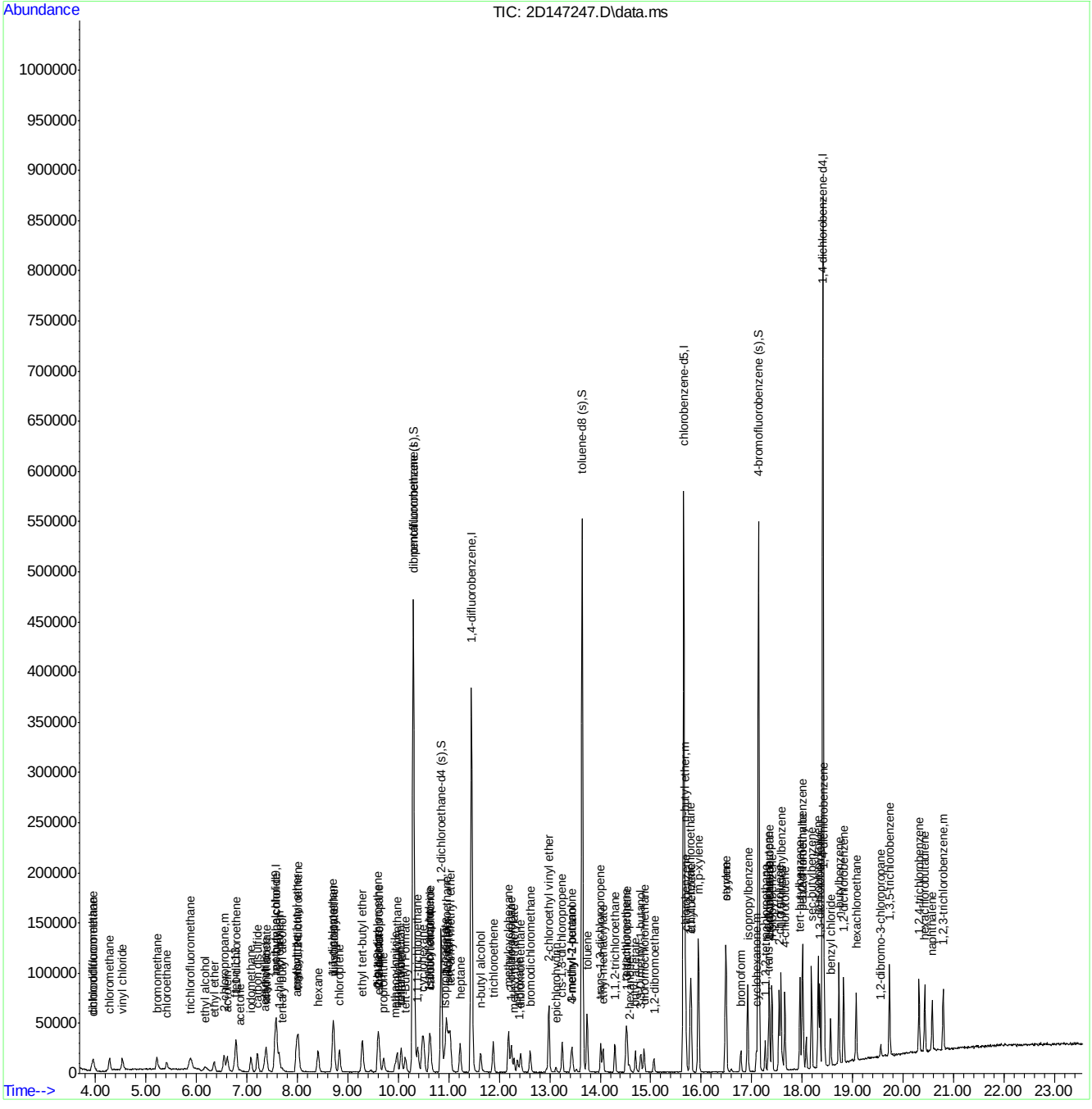
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.787	173	10643	4.82 ug/L	98
94) isopropylbenzene	16.923	105	58535	4.47 ug/L	98
96) cyclohexanone	17.096	55	9015	34.61 ug/L	98
97) bromobenzene	17.353	156	17195	4.33 ug/L	93
98) 1,1,2,2-tetrachloroethane	17.269	83	13961	4.42 ug/L	98
99) trans-1,4-dichloro-2-b...	17.332	53	3497	4.56 ug/L #	65
100) 1,2,3-trichloropropane	17.353	110	3685	4.46 ug/L #	79
101) n-propylbenzene	17.400	91	66511	4.52 ug/L	97
102) 2-chlorotoluene	17.542	126	15458	4.53 ug/L	95
103) 4-chlorotoluene	17.657	91	43107	4.49 ug/L	97
104) 1,3,5-trimethylbenzene	17.579	105	50907	4.49 ug/L	97
105) tert-butylbenzene	17.956	119	43555	4.35 ug/L	99
106) pentachloroethane	18.019	167	11492	4.31 ug/L	92
107) 1,2,4-trimethylbenzene	18.003	105	51724	4.65 ug/L	97
108) sec-butylbenzene	18.187	105	66842	4.56 ug/L	97
109) 1,3-dichlorobenzene	18.349	146	32577	4.52 ug/L	97
110) p-isopropyltoluene	18.318	119	57656	4.36 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	32759	4.50 ug/L	95
112) 1,2-dichlorobenzene	18.821	146	32946	4.60 ug/L	98
113) benzyl chloride	18.564	91	30021	3.64 ug/L	99
114) n-butylbenzene	18.732	92	27776	4.69 ug/L	98
115) 1,2-dibromo-3-chloropr...	19.555	157	3337	4.20 ug/L	95
116) 1,3,5-trichlorobenzene	19.734	180	29477	4.61 ug/L	98
117) hexachlorobutadiene	20.431	225	14864	4.41 ug/L	97
118) naphthalene	20.578	128	38264	4.58 ug/L	97
119) 1,2,4-trichlorobenzene	20.315	180	24360	4.59 ug/L	98
120) 1,2,3-trichlorobenzene	20.798	180	20235	4.53 ug/L	99
121) hexachloroethane	19.073	201	12094	4.66 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147247.D
Acq On : 14 Aug 2015 6:38 pm
Operator : BridgetK
Sample : ic6180-5
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 09:18:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147248.D
Acq On : 14 Aug 2015 7:09 pm
Operator : BridgetK
Sample : ic6180-10
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 10:02:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.570	65	83264	500.00	ug/L	-0.01
5) pentafluorobenzene	10.296	168	333679	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	375213	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	343559	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	204014	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.312	113	118376	50.59	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 101.18%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	121152	50.34	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.68%			
70) toluene-d8 (s)	13.641	98	409265	50.22	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.44%			
95) 4-bromofluorobenzene (s)	17.138	95	162195	50.10	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.20%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.706	59	10487	44.19	ug/L	94
3) ethyl alcohol	6.180	45	24896	778.73	ug/L	97
4) 1,4-dioxane	12.393	88	5245	200.86	ug/L #	96
6) chlorodifluoromethane	3.968	51	26729	10.05	ug/L	95
7) dichlorodifluoromethane	3.941	85	36793	11.86	ug/L	93
8) chloromethane	4.287	50	39081	9.71	ug/L	98
9) vinyl chloride	4.544	62	35417	10.51	ug/L	99
10) bromomethane	5.221	94	25551	10.16	ug/L	99
11) chloroethane	5.415	64	15571	9.13	ug/L	95
12) trichlorofluoromethane	5.897	101	43748	10.53	ug/L	98
13) ethyl ether	6.353	74	12010	9.89	ug/L	95
14) acrolein	6.615	56	40966	100.09	ug/L	99
15) 1,1-dichloroethene	6.794	96	22859	9.59	ug/L	94
16) 2-chloropropane	6.558	43	46771	9.06	ug/L	98
17) acetone	6.862	58	1779	12.31	ug/L #	58
18) allyl chloride	7.391	76	11950	9.70	ug/L	98
19) acetonitrile	7.355	40	19229	89.10	ug/L	95
20) iodomethane	7.087	142	49084	10.16	ug/L	96
21) carbon disulfide	7.213	76	78562	9.77	ug/L	99
22) methylene chloride	7.590	84	26085	9.50	ug/L	96
23) methyl acetate	7.386	74	2993	10.54	ug/L #	87
24) 1-chloropropane	7.648	63	2468	11.50	ug/L	82
25) methyl tert butyl ether	7.999	73	68094	9.44	ug/L	99
26) trans-1,2-dichloroethene	8.026	96	24913	9.41	ug/L	98
27) di-isopropyl ether	8.723	45	88299	9.79	ug/L	93
28) 2-butanone	9.588	72	2132	14.18	ug/L #	83
29) 1,1-dichloroethane	8.702	63	46588	9.98	ug/L	97
30) chloroprene	8.833	53	36499	10.34	ug/L	96
31) acrylonitrile	7.984	53	37925	50.28	ug/L	97
32) vinyl acetate	8.713	86	3426	10.27	ug/L	95
33) ethyl tert-butyl ether	9.289	59	80561	10.23	ug/L	99
34) ethyl acetate	9.630	45	2838	7.82	ug/L	88
35) 2,2-dichloropropane	9.620	77	40205	9.31	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147248.D
Acq On : 14 Aug 2015 7:09 pm
Operator : BridgetK
Sample : ic6180-10
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 10:02:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	28536	9.71	ug/L		97
37) propionitrile	9.714	54	27748	105.71	ug/L		97
38) tert-Butyl Formate	10.139	59	22291	9.97	ug/L		99
39) bromochloromethane	9.981	128	14502	10.36	ug/L		95
40) tetrahydrofuran	10.044	42	6270	8.44	ug/L		97
41) chloroform	10.060	83	46506	10.12	ug/L		97
44) freon 113	6.773	151	19025	10.36	ug/L		98
45) methacrylonitrile	9.939	67	7912	9.99	ug/L	#	85
46) 1,1,1-trichloroethane	10.390	97	41098	10.06	ug/L		99
47) cyclohexane	10.474	84	34707	10.06	ug/L		94
48) isobutyl alcohol	10.610	74	3034	134.67	ug/L	#	44
49) iso-octane	10.998	57	84706	10.32	ug/L		99
51) epichlorohydrin	13.122	57	9452	38.85	ug/L		95
52) n-butyl alcohol	11.628	56	25150	345.51	ug/L		99
53) carbon tetrachloride	10.637	117	38665	10.38	ug/L		99
54) 1,1-dichloropropene	10.616	75	33277	10.33	ug/L		97
55) hexane	8.414	86	3485	10.71	ug/L	#	89
56) benzene	10.951	78	95294	9.58	ug/L		97
57) tert-amyl methyl ether	11.035	87	16265	9.48	ug/L		97
58) heptane	11.224	57	15371	9.93	ug/L		98
59) isopropyl acetate	10.909	43	38480	8.79	ug/L		98
60) 1,2-dichloroethane	10.967	62	31762	9.81	ug/L		95
61) trichloroethene	11.879	130	26814	9.94	ug/L		98
63) 2-chloroethyl vinyl ether	12.980	63	65935	47.94	ug/L		99
64) methyl methacrylate	12.294	69	12877	10.50	ug/L		91
65) 1,2-dichloropropane	12.236	63	26278	9.96	ug/L		100
66) dibromomethane	12.425	93	15773	10.21	ug/L		97
67) methylcyclohexane	12.183	83	39019	9.94	ug/L		99
68) bromodichloromethane	12.608	83	35452	10.08	ug/L		96
69) cis-1,3-dichloropropene	13.242	75	41346	9.96	ug/L		98
71) 4-methyl-2-pentanone	13.421	58	7801	9.67	ug/L		99
72) toluene	13.741	92	59197	9.97	ug/L		97
73) 3-methyl-1-butanol	13.442	55	17280	138.11	ug/L		99
74) trans-1,3-dichloropropene	14.008	75	36518	9.85	ug/L		98
75) ethyl methacrylate	14.055	69	26851	10.48	ug/L		97
76) 1,1,2-trichloroethane	14.291	83	17970	10.02	ug/L		98
77) 2-hexanone	14.579	58	6681	14.87	ug/L		87
79) 3,3-Dimethyl-1-butanol	14.800	57	19759	67.01	ug/L	#	97
80) tetrachloroethene	14.511	164	24706	9.96	ug/L		98
81) 1,3-dichloropropane	14.538	76	34188	9.43	ug/L		98
82) butyl acetate	14.700	56	12980	7.86	ug/L		99
83) dibromochloromethane	14.868	129	29154	9.94	ug/L		99
84) 1,2-dibromoethane	15.062	107	21761	9.55	ug/L		93
85) n-butyl ether	15.681	57	114733	9.87	ug/L		96
86) chlorobenzene	15.696	112	70128	9.75	ug/L		99
87) 1,1,1,2-tetrachloroethane	15.780	131	30540	10.54	ug/L		99
88) ethylbenzene	15.801	91	119532	9.91	ug/L		98
89) m,p-xylene	15.943	106	91231	19.97	ug/L		98
90) o-xylene	16.483	106	47567	9.82	ug/L		99
91) styrene	16.493	104	76766	10.00	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147248.D
Acq On : 14 Aug 2015 7:09 pm
Operator : BridgetK
Sample : ic6180-10
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 10:02:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

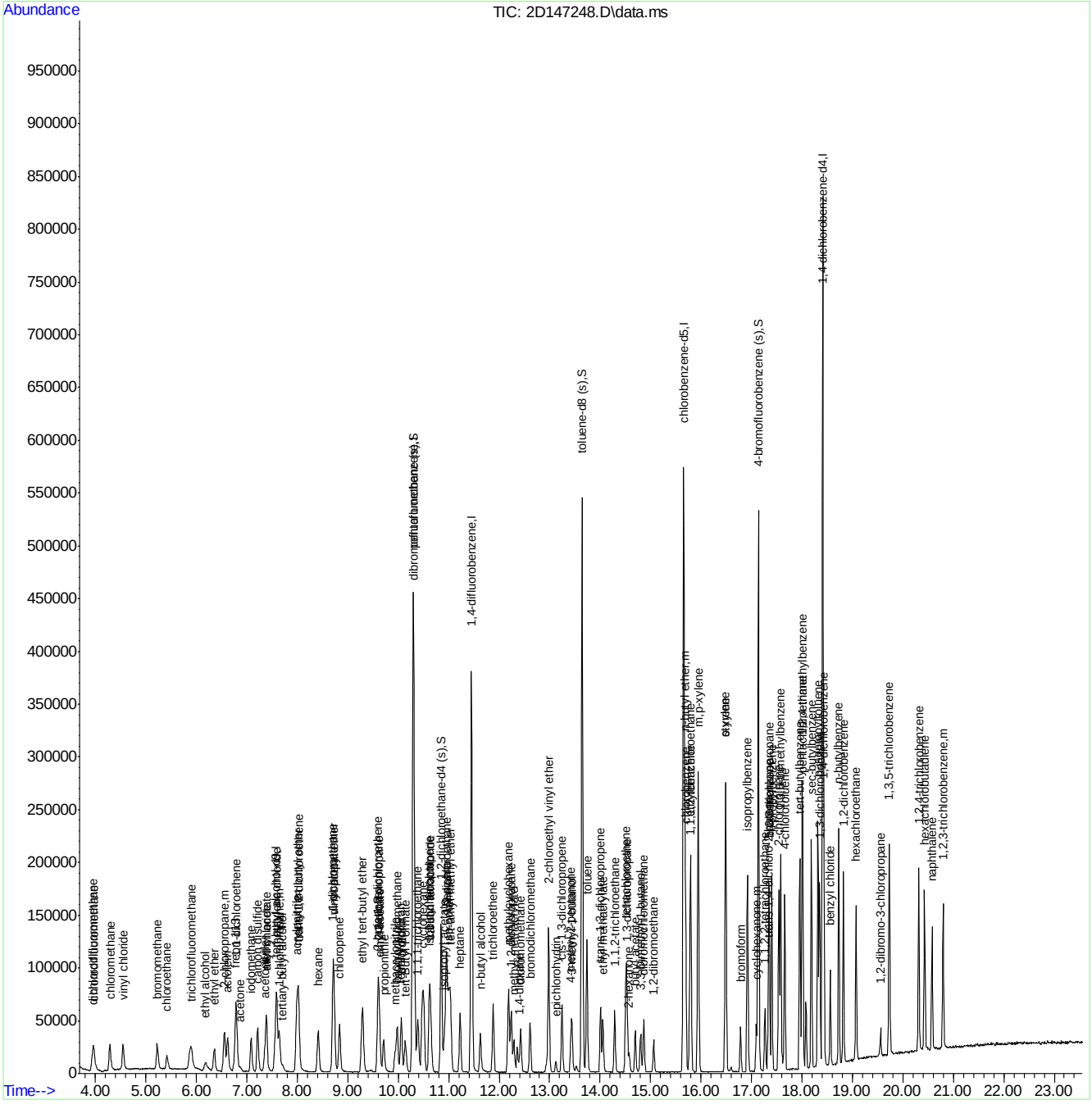
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.782	173	21711	10.02 ug/L	96
94) isopropylbenzene	16.923	105	125930	10.15 ug/L	100
96) cyclohexanone	17.096	55	18596	75.32 ug/L	98
97) bromobenzene	17.348	156	35980	9.57 ug/L	95
98) 1,1,2,2-tetrachloroethane	17.269	83	29034	9.69 ug/L	100
99) trans-1,4-dichloro-2-b...	17.327	53	7058	9.71 ug/L	99
100) 1,2,3-trichloropropane	17.348	110	7501	9.58 ug/L #	84
101) n-propylbenzene	17.400	91	140719	10.09 ug/L	99
102) 2-chlorotoluene	17.542	126	32435	10.03 ug/L	95
103) 4-chlorotoluene	17.657	91	89060	9.79 ug/L	100
104) 1,3,5-trimethylbenzene	17.578	105	108523	10.10 ug/L	98
105) tert-butylbenzene	17.961	119	96692	10.18 ug/L	95
106) pentachloroethane	18.019	167	24701	9.76 ug/L	95
107) 1,2,4-trimethylbenzene	18.003	105	110671	10.51 ug/L	98
108) sec-butylbenzene	18.187	105	145415	10.46 ug/L	97
109) 1,3-dichlorobenzene	18.349	146	70549	10.32 ug/L	96
110) p-isopropyltoluene	18.318	119	125315	10.00 ug/L	98
111) 1,4-dichlorobenzene	18.438	146	68594	9.93 ug/L	97
112) 1,2-dichlorobenzene	18.821	146	69264	10.20 ug/L	95
113) benzyl chloride	18.564	91	58870	7.53 ug/L	99
114) n-butylbenzene	18.727	92	60300	10.74 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.560	157	7357	9.77 ug/L	95
116) 1,3,5-trichlorobenzene	19.733	180	65604	10.81 ug/L	96
117) hexachlorobutadiene	20.431	225	33552	10.50 ug/L	97
118) naphthalene	20.578	128	88664	11.20 ug/L	100
119) 1,2,4-trichlorobenzene	20.315	180	54984	10.94 ug/L	98
120) 1,2,3-trichlorobenzene	20.798	180	46332	10.93 ug/L	98
121) hexachloroethane	19.073	201	27096	11.03 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147248.D
Acq On : 14 Aug 2015 7:09 pm
Operator : BridgetK
Sample : ic6180-10
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 10:02:12 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147249.D
Acq On : 14 Aug 2015 7:39 pm
Operator : BridgetK
Sample : ic6180-20
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 10:02:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.570	65	81579	500.00	ug/L	-0.01
5) pentafluorobenzene	10.296	168	330396	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.455	114	385870	50.00	ug/L	-0.01
78) chlorobenzene-d5	15.654	117	353631	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	208889	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.312	113	114166	49.27	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.54%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	121778	51.10	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 102.20%			
70) toluene-d8 (s)	13.646	98	421794	50.33	ug/L	-0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.66%			
95) 4-bromofluorobenzene (s)	17.138	95	165253	49.85	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.70%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.701	59	20140	86.62	ug/L	96
3) ethyl alcohol	6.175	45	47517	1517.00	ug/L	94
4) 1,4-dioxane	12.399	88	10356	404.78	ug/L #	99
6) chlorodifluoromethane	3.968	51	51529	19.56	ug/L	98
7) dichlorodifluoromethane	3.952	85	68791	22.39	ug/L	99
8) chloromethane	4.293	50	74078	18.58	ug/L	96
9) vinyl chloride	4.550	62	66772	20.01	ug/L	98
10) bromomethane	5.226	94	41992	16.87	ug/L	96
11) chloroethane	5.420	64	28762	17.04	ug/L	96
12) trichlorofluoromethane	5.881	101	80881	19.66	ug/L	96
13) ethyl ether	6.353	74	22391	18.62	ug/L	89
14) acrolein	6.615	56	79463	196.07	ug/L	100
15) 1,1-dichloroethene	6.794	96	40907	17.33	ug/L	97
16) 2-chloropropane	6.553	43	89265	17.46	ug/L	98
17) acetone	6.872	58	3145	21.98	ug/L	96
18) allyl chloride	7.386	76	23726	19.44	ug/L	95
19) acetonitrile	7.360	40	36608	171.32	ug/L #	69
20) iodomethane	7.087	142	93207	19.48	ug/L	98
21) carbon disulfide	7.213	76	150405	18.89	ug/L	100
22) methylene chloride	7.591	84	49374	18.15	ug/L	98
23) methyl acetate	7.391	74	5854	20.81	ug/L	90
24) 1-chloropropane	7.643	63	4213	19.83	ug/L	93
25) methyl tert butyl ether	8.005	73	130311	18.24	ug/L	99
26) trans-1,2-dichloroethene	8.026	96	47683	18.20	ug/L	97
27) di-isopropyl ether	8.723	45	170220	19.06	ug/L	99
28) 2-butanone	9.588	72	4230	28.41	ug/L #	96
29) 1,1-dichloroethane	8.702	63	88864	19.23	ug/L	98
30) chloroprene	8.838	53	69549	19.91	ug/L	97
31) acrylonitrile	7.984	53	71583	95.84	ug/L	97
32) vinyl acetate	8.718	86	6611	20.02	ug/L	91
33) ethyl tert-butyl ether	9.295	59	154345	19.79	ug/L	99
34) ethyl acetate	9.635	45	5366	14.93	ug/L	54
35) 2,2-dichloropropane	9.614	77	76215	17.82	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147249.D
Acq On : 14 Aug 2015 7:39 pm
Operator : BridgetK
Sample : ic6180-20
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 10:02:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	52798	18.15 ug/L	99
37) propionitrile	9.709	54	54333	209.05 ug/L	99
38) tert-Butyl Formate	10.139	59	43081	19.46 ug/L	99
39) bromochloromethane	9.981	128	27574	19.90 ug/L	95
40) tetrahydrofuran	10.044	42	12009	16.33 ug/L	97
41) chloroform	10.060	83	89453	19.66 ug/L	96
44) freon 113	6.778	151	34913	19.20 ug/L	96
45) methacrylonitrile	9.940	67	15553	19.84 ug/L	92
46) 1,1,1-trichloroethane	10.390	97	79349	19.61 ug/L	99
47) cyclohexane	10.480	84	64791	18.97 ug/L	98
48) isobutyl alcohol	10.626	74	5771	258.71 ug/L #	38
49) iso-octane	10.999	57	153499	18.89 ug/L	99
51) epichlorohydrin	13.122	57	18922	75.62 ug/L	99
52) n-butyl alcohol	11.628	56	51694	690.57 ug/L	93
53) carbon tetrachloride	10.637	117	71508	18.67 ug/L	98
54) 1,1-dichloropropene	10.616	75	63138	19.05 ug/L	96
55) hexane	8.419	86	6571	19.64 ug/L #	88
56) benzene	10.951	78	189681	18.54 ug/L	98
57) tert-amyl methyl ether	11.035	87	31595	17.91 ug/L	99
58) heptane	11.224	57	29044	18.25 ug/L	96
59) isopropyl acetate	10.915	43	79283	17.61 ug/L	99
60) 1,2-dichloroethane	10.967	62	63637	19.11 ug/L	96
61) trichloroethene	11.879	130	52834	19.05 ug/L	95
63) 2-chloroethyl vinyl ether	12.986	63	137784	97.41 ug/L	99
64) methyl methacrylate	12.288	69	26555	21.05 ug/L	91
65) 1,2-dichloropropane	12.241	63	52711	19.43 ug/L	97
66) dibromomethane	12.425	93	31323	19.72 ug/L	98
67) methylcyclohexane	12.189	83	72758	18.02 ug/L	96
68) bromodichloromethane	12.613	83	71288	19.70 ug/L	99
69) cis-1,3-dichloropropene	13.248	75	84699	19.85 ug/L	99
71) 4-methyl-2-pentanone	13.426	58	15544	18.74 ug/L	97
72) toluene	13.741	92	121995	19.97 ug/L	99
73) 3-methyl-1-butanol	13.442	55	34185	265.68 ug/L	99
74) trans-1,3-dichloropropene	14.013	75	75546	19.81 ug/L	99
75) ethyl methacrylate	14.055	69	54416	20.65 ug/L	99
76) 1,1,2-trichloroethane	14.291	83	36235	19.64 ug/L	99
77) 2-hexanone	14.574	58	13098	28.35 ug/L #	80
79) 3,3-Dimethyl-1-butanol	14.800	57	38836	127.96 ug/L	98
80) tetrachloroethene	14.517	164	49826	19.52 ug/L	95
81) 1,3-dichloropropane	14.538	76	70620	18.92 ug/L	98
82) butyl acetate	14.700	56	26968	15.86 ug/L	98
83) dibromochloromethane	14.868	129	58690	19.43 ug/L	99
84) 1,2-dibromoethane	15.067	107	46123	19.66 ug/L	96
85) n-butyl ether	15.681	57	233868	19.54 ug/L	99
86) chlorobenzene	15.696	112	143209	19.34 ug/L	99
87) 1,1,1,2-tetrachloroethane	15.786	131	59965	20.11 ug/L	99
88) ethylbenzene	15.801	91	240529	19.38 ug/L	99
89) m,p-xylene	15.943	106	185361	39.42 ug/L	98
90) o-xylene	16.483	106	96981	19.44 ug/L	94
91) styrene	16.493	104	156744	19.84 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147249.D
Acq On : 14 Aug 2015 7:39 pm
Operator : BridgetK
Sample : ic6180-20
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 10:02:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.787	173	43924	19.69 ug/L	95
94) isopropylbenzene	16.923	105	255461	20.12 ug/L	99
96) cyclohexanone	17.096	55	30166	119.33 ug/L	98
97) bromobenzene	17.348	156	73039	18.97 ug/L	96
98) 1,1,2,2-tetrachloroethane	17.269	83	58527	19.07 ug/L	97
99) trans-1,4-dichloro-2-b...	17.327	53	14270	19.17 ug/L	96
100) 1,2,3-trichloropropane	17.353	110	14898	18.58 ug/L #	84
101) n-propylbenzene	17.400	91	281718	19.73 ug/L	98
102) 2-chlorotoluene	17.542	126	65434	19.77 ug/L	98
103) 4-chlorotoluene	17.657	91	182182	19.57 ug/L	99
104) 1,3,5-trimethylbenzene	17.579	105	220357	20.03 ug/L	98
105) tert-butylbenzene	17.961	119	192327	19.78 ug/L	99
106) pentachloroethane	18.019	167	51072	19.72 ug/L	94
107) 1,2,4-trimethylbenzene	18.003	105	217899	20.20 ug/L	99
108) sec-butylbenzene	18.187	105	291594	20.49 ug/L	99
109) 1,3-dichlorobenzene	18.349	146	139873	19.98 ug/L	99
110) p-isopropyltoluene	18.318	119	251375	19.60 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	137499	19.45 ug/L	97
112) 1,2-dichlorobenzene	18.821	146	139768	20.10 ug/L	99
113) benzyl chloride	18.564	91	121746	15.20 ug/L	100
114) n-butylbenzene	18.727	92	123209	21.43 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.560	157	14033	18.21 ug/L	95
116) 1,3,5-trichlorobenzene	19.733	180	130091	20.94 ug/L	100
117) hexachlorobutadiene	20.431	225	66432	20.31 ug/L	98
118) naphthalene	20.578	128	180207	22.24 ug/L	99
119) 1,2,4-trichlorobenzene	20.315	180	112300	21.81 ug/L	98
120) 1,2,3-trichlorobenzene	20.798	180	93783	21.61 ug/L	99
121) hexachloroethane	19.073	201	53758	21.36 ug/L	99

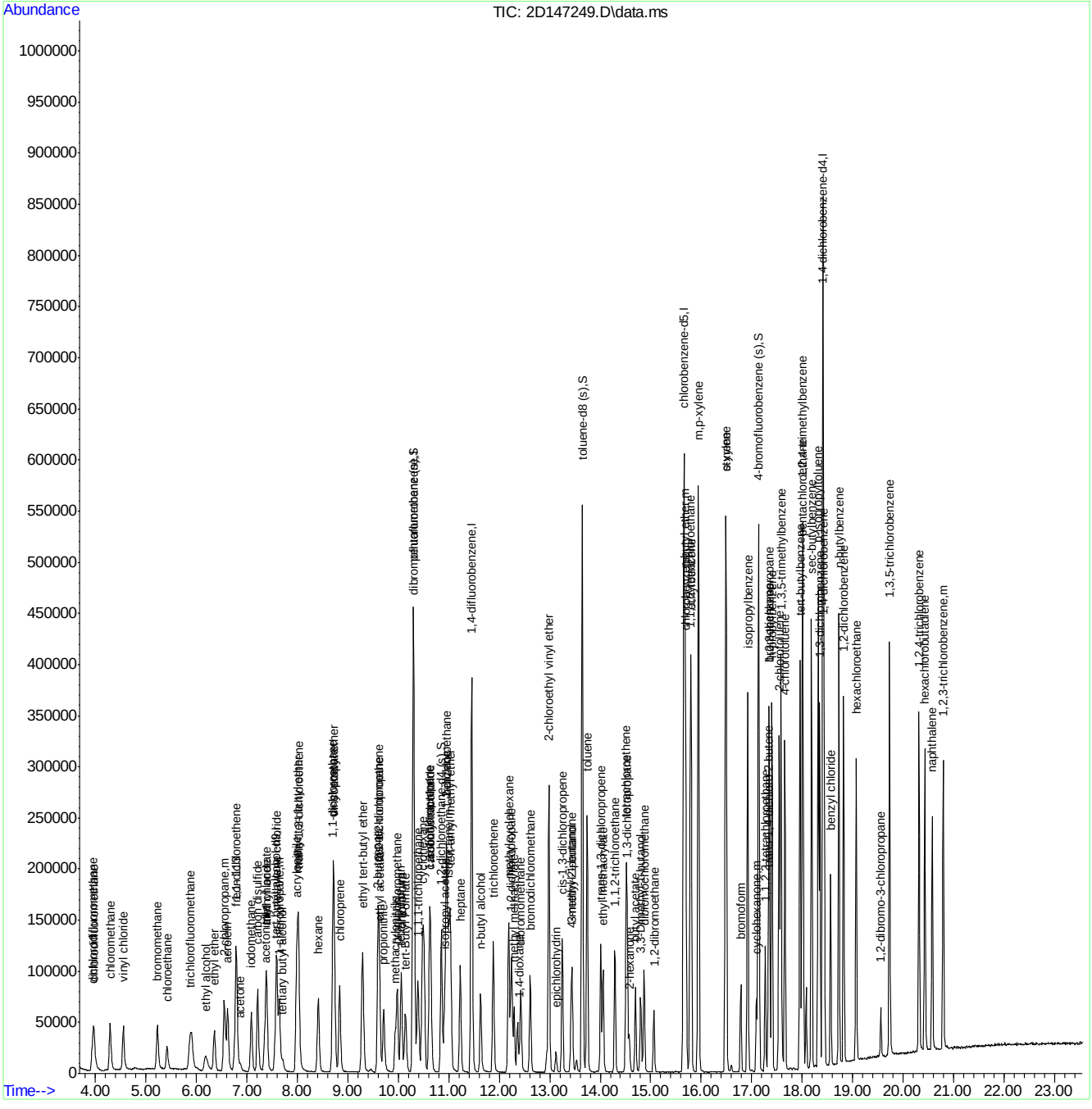
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.25
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147249.D
Acq On : 14 Aug 2015 7:39 pm
Operator : BridgetK
Sample : ic6180-20
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 10:02:29 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147250.D
Acq On : 14 Aug 2015 8:09 pm
Operator : BridgetK
Sample : icc6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 10:02:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.580	65	81950	500.00	ug/L	0.00
5) pentafluorobenzene	10.296	168	322053	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.450	114	376007	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	348534	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	211363	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.317	113	113883	50.43	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.86%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	119563	51.47	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 102.94%			
70) toluene-d8 (s)	13.646	98	407622	49.91	ug/L	-0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.82%			
95) 4-bromofluorobenzene (s)	17.138	95	164595	49.07	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.14%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.706	59	48710	208.54	ug/L	92
3) ethyl alcohol	6.175	45	116392	3699.05	ug/L	93
4) 1,4-dioxane	12.399	88	24533	954.57	ug/L #	98
6) chlorodifluoromethane	3.968	51	129858	50.58	ug/L	98
7) dichlorodifluoromethane	3.947	85	167642	55.99	ug/L	97
8) chloromethane	4.298	50	182895	47.06	ug/L	99
9) vinyl chloride	4.555	62	166857	51.30	ug/L	99
10) bromomethane	5.226	94	101912	41.99	ug/L	100
11) chloroethane	5.420	64	70988	43.15	ug/L	98
12) trichlorofluoromethane	5.902	101	198671	49.55	ug/L	98
13) ethyl ether	6.359	74	54544	46.53	ug/L	93
14) acrolein	6.621	56	197025	498.75	ug/L	100
15) 1,1-dichloroethene	6.794	96	99502	43.25	ug/L	98
16) 2-chloropropane	6.553	43	212041	42.56	ug/L	99
17) acetone	6.867	58	7478	53.63	ug/L	91
18) allyl chloride	7.391	76	57254	48.13	ug/L	89
19) acetonitrile	7.355	40	89014	427.35	ug/L	89
20) iodomethane	7.087	142	230361	49.40	ug/L	100
21) carbon disulfide	7.213	76	365860	47.15	ug/L	100
22) methylene chloride	7.591	84	121790	45.94	ug/L	97
23) methyl acetate	7.386	74	14850	54.16	ug/L	96
24) 1-chloropropane	7.643	63	9771	47.17	ug/L	96
25) methyl tert butyl ether	8.005	73	321065	46.11	ug/L	99
26) trans-1,2-dichloroethene	8.026	96	114450	44.81	ug/L	97
27) di-isopropyl ether	8.723	45	413101	47.46	ug/L	100
28) 2-butanone	9.594	72	10022	69.05	ug/L	98
29) 1,1-dichloroethane	8.702	63	217179	48.22	ug/L	99
30) chloroprene	8.838	53	168612	49.51	ug/L	98
31) acrylonitrile	7.984	53	175877	241.58	ug/L	99
32) vinyl acetate	8.718	86	17008	52.83	ug/L	98
33) ethyl tert-butyl ether	9.295	59	383009	50.38	ug/L	99
34) ethyl acetate	9.625	45	12647	36.10	ug/L #	29
35) 2,2-dichloropropane	9.620	77	185548	44.50	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147250.D
Acq On : 14 Aug 2015 8:09 pm
Operator : BridgetK
Sample : icc6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 10:02:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	130681	46.09	ug/L		99
37) propionitrile	9.709	54	131405	518.69	ug/L		98
38) tert-Butyl Formate	10.144	59	104898	48.62	ug/L		99
39) bromochloromethane	9.981	128	66939	49.56	ug/L		99
40) tetrahydrofuran	10.039	42	27798	38.78	ug/L		98
41) chloroform	10.065	83	215552	48.60	ug/L		99
44) freon 113	6.778	151	87534	49.39	ug/L		98
45) methacrylonitrile	9.940	67	37126	48.58	ug/L		95
46) 1,1,1-trichloroethane	10.390	97	194118	49.22	ug/L		98
47) cyclohexane	10.480	84	159695	47.96	ug/L		99
48) isobutyl alcohol	10.616	74	13597	625.34	ug/L	#	76
49) iso-octane	10.999	57	383577	48.42	ug/L		100
51) epichlorohydrin	13.122	57	44419	182.18	ug/L		96
52) n-butyl alcohol	11.628	56	122395	1677.93	ug/L		97
53) carbon tetrachloride	10.637	117	177739	47.62	ug/L		98
54) 1,1-dichloropropene	10.616	75	156264	48.38	ug/L		98
55) hexane	8.414	86	16221	49.75	ug/L	#	76
56) benzene	10.951	78	455700	45.71	ug/L		99
57) tert-amyl methyl ether	11.035	87	76458	44.47	ug/L		100
58) heptane	11.229	57	71725	46.26	ug/L		95
59) isopropyl acetate	10.915	43	191286	43.60	ug/L		100
60) 1,2-dichloroethane	10.967	62	154966	47.77	ug/L		99
61) trichloroethene	11.879	130	130604	48.33	ug/L		94
63) 2-chloroethyl vinyl ether	12.986	63	324598	235.50	ug/L		99
64) methyl methacrylate	12.294	69	62149	50.55	ug/L		96
65) 1,2-dichloropropane	12.241	63	124315	47.02	ug/L		99
66) dibromomethane	12.425	93	73156	47.28	ug/L		94
67) methylcyclohexane	12.189	83	183790	46.72	ug/L		97
68) bromodichloromethane	12.613	83	173605	49.24	ug/L		99
69) cis-1,3-dichloropropene	13.248	75	201195	48.38	ug/L		96
71) 4-methyl-2-pentanone	13.421	58	36100	44.66	ug/L		95
72) toluene	13.741	92	288062	48.39	ug/L		99
73) 3-methyl-1-butanol	13.442	55	79412	633.36	ug/L		97
74) trans-1,3-dichloropropene	14.008	75	180691	48.63	ug/L		99
75) ethyl methacrylate	14.055	69	131976	51.39	ug/L		99
76) 1,1,2-trichloroethane	14.291	83	86275	47.98	ug/L		99
77) 2-hexanone	14.574	58	32104	71.32	ug/L		95
79) 3,3-Dimethyl-1-butanol	14.800	57	96386	322.22	ug/L		96
80) tetrachloroethene	14.511	164	119471	47.48	ug/L		100
81) 1,3-dichloropropane	14.538	76	166340	45.23	ug/L		96
82) butyl acetate	14.695	56	63955	38.17	ug/L		96
83) dibromochloromethane	14.868	129	143639	48.25	ug/L		99
84) 1,2-dibromoethane	15.062	107	109927	47.54	ug/L		98
85) n-butyl ether	15.681	57	566822	48.05	ug/L		100
86) chlorobenzene	15.696	112	342747	46.97	ug/L		98
87) 1,1,1,2-tetrachloroethane	15.786	131	147215	50.08	ug/L		97
88) ethylbenzene	15.801	91	570862	46.67	ug/L		98
89) m,p-xylene	15.943	106	446364	96.32	ug/L		97
90) o-xylene	16.483	106	234605	47.72	ug/L		100
91) styrene	16.493	104	386310	49.62	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147250.D
Acq On : 14 Aug 2015 8:09 pm
Operator : BridgetK
Sample : icc6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 10:02:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.787	173	110313	50.18 ug/L	98
94) isopropylbenzene	16.923	105	615580	47.91 ug/L	100
96) cyclohexanone	17.096	55	81547	318.80 ug/L	98
97) bromobenzene	17.348	156	180035	46.21 ug/L	97
98) 1,1,2,2-tetrachloroethane	17.269	83	143917	46.35 ug/L	98
99) trans-1,4-dichloro-2-b...	17.327	53	35739	47.44 ug/L	94
100) 1,2,3-trichloropropane	17.348	110	35768	44.10 ug/L #	94
101) n-propylbenzene	17.406	91	686590	47.52 ug/L	99
102) 2-chlorotoluene	17.547	126	159575	47.65 ug/L	94
103) 4-chlorotoluene	17.657	91	444294	47.16 ug/L	98
104) 1,3,5-trimethylbenzene	17.579	105	528294	47.46 ug/L	99
105) tert-butylbenzene	17.961	119	472441	48.03 ug/L	98
106) pentachloroethane	18.019	167	122806	46.86 ug/L	98
107) 1,2,4-trimethylbenzene	18.003	105	534800	49.01 ug/L	98
108) sec-butylbenzene	18.187	105	710635	49.36 ug/L	99
109) 1,3-dichlorobenzene	18.355	146	342610	48.36 ug/L	99
110) p-isopropyltoluene	18.318	119	616639	47.52 ug/L	99
111) 1,4-dichlorobenzene	18.439	146	345563	48.31 ug/L	99
112) 1,2-dichlorobenzene	18.821	146	345994	49.18 ug/L	98
113) benzyl chloride	18.564	91	295752	36.50 ug/L	100
114) n-butylbenzene	18.727	92	308870	53.09 ug/L	98
115) 1,2-dibromo-3-chloropr...	19.561	157	35072	44.98 ug/L	95
116) 1,3,5-trichlorobenzene	19.734	180	331831	52.80 ug/L	99
117) hexachlorobutadiene	20.431	225	165653	50.06 ug/L	100
118) naphthalene	20.578	128	460556	56.17 ug/L	100
119) 1,2,4-trichlorobenzene	20.316	180	286804	55.06 ug/L	98
120) 1,2,3-trichlorobenzene	20.798	180	243022	55.35 ug/L	99
121) hexachloroethane	19.073	201	136156	53.48 ug/L	99

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

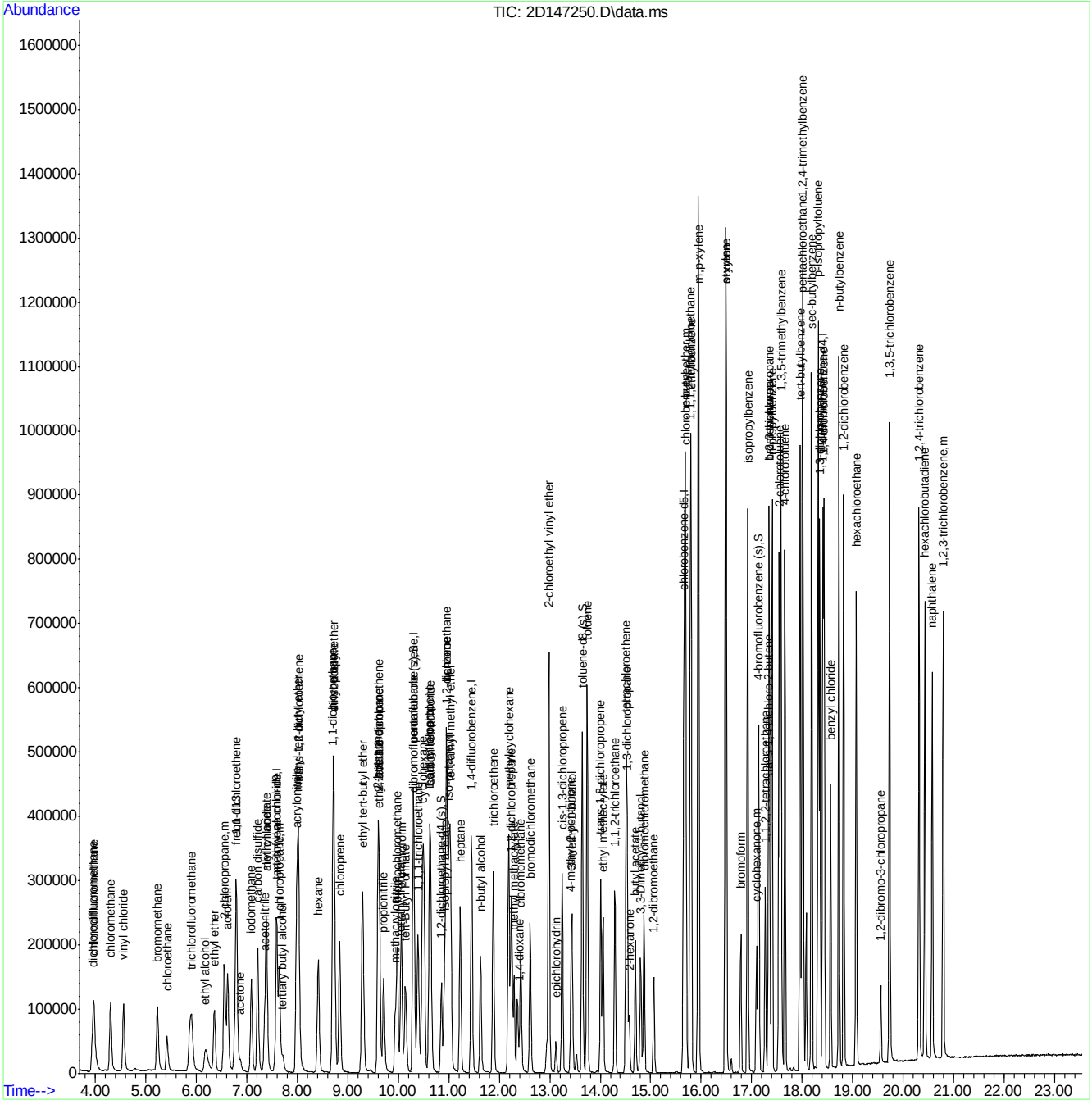
7.7.26

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147250.D
Acq On : 14 Aug 2015 8:09 pm
Operator : BridgetK
Sample : icc6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 10:02:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147251.D
Acq On : 14 Aug 2015 8:39 pm
Operator : BridgetK
Sample : ic6180-100
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 10:02:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.580	65	84238	500.00	ug/L	0.00
5) pentafluorobenzene	10.296	168	327475	50.00	ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	383605	50.00	ug/L	-0.02
78) chlorobenzene-d5	15.654	117	361912	50.00	ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	210948	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.312	113	114967	50.06	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.12%			
43) 1,2-dichloroethane-d4 (s)	10.852	65	119195	50.47	ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.94%			
70) toluene-d8 (s)	13.646	98	423455	50.82	ug/L	-0.01
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.64%			
95) 4-bromofluorobenzene (s)	17.138	95	167939	50.17	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.34%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.711	59	98318	409.49	ug/L	93
3) ethyl alcohol	6.180	45	223679	6915.64	ug/L	99
4) 1,4-dioxane	12.398	88	50362	1906.34	ug/L #	96
6) chlorodifluoromethane	3.968	51	275463	105.52	ug/L	97
7) dichlorodifluoromethane	3.941	85	355369	116.72	ug/L	96
8) chloromethane	4.303	50	379134	95.94	ug/L	99
9) vinyl chloride	4.560	62	344498	104.17	ug/L	99
10) bromomethane	5.221	94	201354	81.60	ug/L	99
11) chloroethane	5.410	64	145652	87.06	ug/L	99
12) trichlorofluoromethane	5.897	101	414965	101.79	ug/L	98
13) ethyl ether	6.353	74	109004	91.45	ug/L	97
14) acrolein	6.621	56	389316	969.20	ug/L	100
15) 1,1-dichloroethene	6.794	96	203277	86.89	ug/L	97
16) 2-chloropropane	6.553	43	428433	84.57	ug/L	99
17) acetone	6.872	58	15668	110.50	ug/L #	82
18) allyl chloride	7.386	76	113697	94.00	ug/L #	77
19) acetonitrile	7.355	40	180611	852.75	ug/L	86
20) iodomethane	7.082	142	463828	97.81	ug/L	99
21) carbon disulfide	7.213	76	742357	94.09	ug/L	100
22) methylene chloride	7.591	84	241582	89.62	ug/L	98
23) methyl acetate	7.386	74	29447	105.62	ug/L	99
24) 1-chloropropane	7.638	63	19392	92.07	ug/L	92
25) methyl tert butyl ether	8.005	73	632450	89.32	ug/L	99
26) trans-1,2-dichloroethene	8.026	96	230405	88.72	ug/L	97
27) di-isopropyl ether	8.728	45	847983	95.81	ug/L	87
28) 2-butanone	9.593	72	20419	138.35	ug/L	87
29) 1,1-dichloroethane	8.702	63	432558	94.46	ug/L	98
30) chloroprene	8.838	53	354269	102.30	ug/L	98
31) acrylonitrile	7.984	53	352645	476.37	ug/L	98
32) vinyl acetate	8.718	86	33003	100.82	ug/L	94
33) ethyl tert-butyl ether	9.295	59	795318	102.89	ug/L	99
34) ethyl acetate	9.630	45	26231	73.64	ug/L	95
35) 2,2-dichloropropane	9.620	77	362630	85.53	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147251.D
Acq On : 14 Aug 2015 8:39 pm
Operator : BridgetK
Sample : ic6180-100
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 10:02:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	261119	90.57	ug/L		99
37) propionitrile	9.709	54	259919	1008.99	ug/L		97
38) tert-Butyl Formate	10.144	59	212681	96.94	ug/L		99
39) bromochloromethane	9.981	128	132990	96.82	ug/L		99
40) tetrahydrofuran	10.044	42	55447	76.07	ug/L		99
41) chloroform	10.060	83	428278	94.96	ug/L		98
44) freon 113	6.778	151	185544	102.95	ug/L		98
45) methacrylonitrile	9.934	67	75247	96.82	ug/L		97
46) 1,1,1-trichloroethane	10.390	97	388052	96.77	ug/L		98
47) cyclohexane	10.480	84	328972	97.16	ug/L		98
48) isobutyl alcohol	10.621	74	27706	1253.12	ug/L	#	86
49) iso-octane	11.004	57	848691	105.36	ug/L		99
51) epichlorohydrin	13.122	57	95565	384.19	ug/L		98
52) n-butyl alcohol	11.633	56	261777	3517.66	ug/L		98
53) carbon tetrachloride	10.637	117	355294	93.31	ug/L		98
54) 1,1-dichloropropene	10.616	75	312545	94.86	ug/L		99
55) hexane	8.414	86	35016	105.27	ug/L	#	74
56) benzene	10.951	78	911132	89.57	ug/L		99
57) tert-amyl methyl ether	11.035	87	158482	90.35	ug/L		99
58) heptane	11.224	57	161049	101.81	ug/L		99
59) isopropyl acetate	10.915	43	400174	89.40	ug/L		99
60) 1,2-dichloroethane	10.962	62	306125	92.49	ug/L		98
61) trichloroethene	11.879	130	266720	96.74	ug/L		96
63) 2-chloroethyl vinyl ether	12.986	63	693577	493.24	ug/L		99
64) methyl methacrylate	12.294	69	128975	102.83	ug/L		98
65) 1,2-dichloropropane	12.241	63	250507	92.87	ug/L		100
66) dibromomethane	12.425	93	147559	93.47	ug/L		98
67) methylcyclohexane	12.189	83	397697	99.10	ug/L		96
68) bromodichloromethane	12.613	83	346790	96.42	ug/L		98
69) cis-1,3-dichloropropene	13.248	75	412873	97.32	ug/L		99
71) 4-methyl-2-pentanone	13.426	58	74178	89.94	ug/L		95
72) toluene	13.741	92	588978	96.98	ug/L		98
73) 3-methyl-1-butanol	13.442	55	167558	1309.91	ug/L		100
74) trans-1,3-dichloropropene	14.008	75	374235	98.71	ug/L		98
75) ethyl methacrylate	14.055	69	272813	104.13	ug/L		98
76) 1,1,2-trichloroethane	14.291	83	177799	96.93	ug/L		99
77) 2-hexanone	14.574	58	66107	143.94	ug/L		90
79) 3,3-Dimethyl-1-butanol	14.800	57	200589	645.78	ug/L		97
80) tetrachloroethene	14.511	164	276861	105.97	ug/L		99
81) 1,3-dichloropropane	14.538	76	339484	88.89	ug/L		96
82) butyl acetate	14.695	56	136842	78.65	ug/L		97
83) dibromochloromethane	14.868	129	295924	95.74	ug/L		98
84) 1,2-dibromoethane	15.062	107	227327	94.67	ug/L		99
85) n-butyl ether	15.681	57	1153111	94.14	ug/L		99
86) chlorobenzene	15.696	112	699632	92.33	ug/L		99
87) 1,1,1,2-tetrachloroethane	15.785	131	291476	95.49	ug/L		100
88) ethylbenzene	15.801	91	1160814	91.38	ug/L		99
89) m,p-xylene	15.948	106	904511	187.96	ug/L		98
90) o-xylene	16.483	106	477606	93.56	ug/L		98
91) styrene	16.493	104	782746	96.83	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147251.D
Acq On : 14 Aug 2015 8:39 pm
Operator : BridgetK
Sample : ic6180-100
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 10:02:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.787	173	225672	98.87 ug/L	98
94) isopropylbenzene	16.923	105	1247998	97.32 ug/L	100
96) cyclohexanone	17.096	55	178363	698.66 ug/L	99
97) bromobenzene	17.348	156	358593	92.23 ug/L	96
98) 1,1,2,2-tetrachloroethane	17.269	83	287771	92.86 ug/L	99
99) trans-1,4-dichloro-2-b...	17.327	53	70659	93.99 ug/L	98
100) 1,2,3-trichloropropane	17.348	110	71763	88.64 ug/L	95
101) n-propylbenzene	17.406	91	1382013	95.84 ug/L	100
102) 2-chlorotoluene	17.547	126	323240	96.71 ug/L	96
103) 4-chlorotoluene	17.657	91	891890	94.87 ug/L	99
104) 1,3,5-trimethylbenzene	17.579	105	1060214	95.44 ug/L	100
105) tert-butylbenzene	17.961	119	954136	97.18 ug/L	99
106) pentachloroethane	18.019	167	205491	78.56 ug/L	98
107) 1,2,4-trimethylbenzene	18.003	105	1059855	97.31 ug/L	100
108) sec-butylbenzene	18.187	105	1432457	99.69 ug/L	100
109) 1,3-dichlorobenzene	18.349	146	678752	95.99 ug/L	99
110) p-isopropyltoluene	18.318	119	1238625	95.64 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	682763	95.64 ug/L	98
112) 1,2-dichlorobenzene	18.821	146	683059	97.28 ug/L	99
113) benzyl chloride	18.564	91	598205	73.98 ug/L	99
114) n-butylbenzene	18.727	92	624538	107.55 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.560	157	70205	90.21 ug/L	99
116) 1,3,5-trichlorobenzene	19.733	180	662224	105.58 ug/L	100
117) hexachlorobutadiene	20.431	225	332346	100.63 ug/L	99
118) naphthalene	20.578	128	932316	113.93 ug/L	100
119) 1,2,4-trichlorobenzene	20.315	180	578633	111.30 ug/L	99
120) 1,2,3-trichlorobenzene	20.798	180	484064	110.46 ug/L	100
121) hexachloroethane	19.073	201	273243	107.53 ug/L	99

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

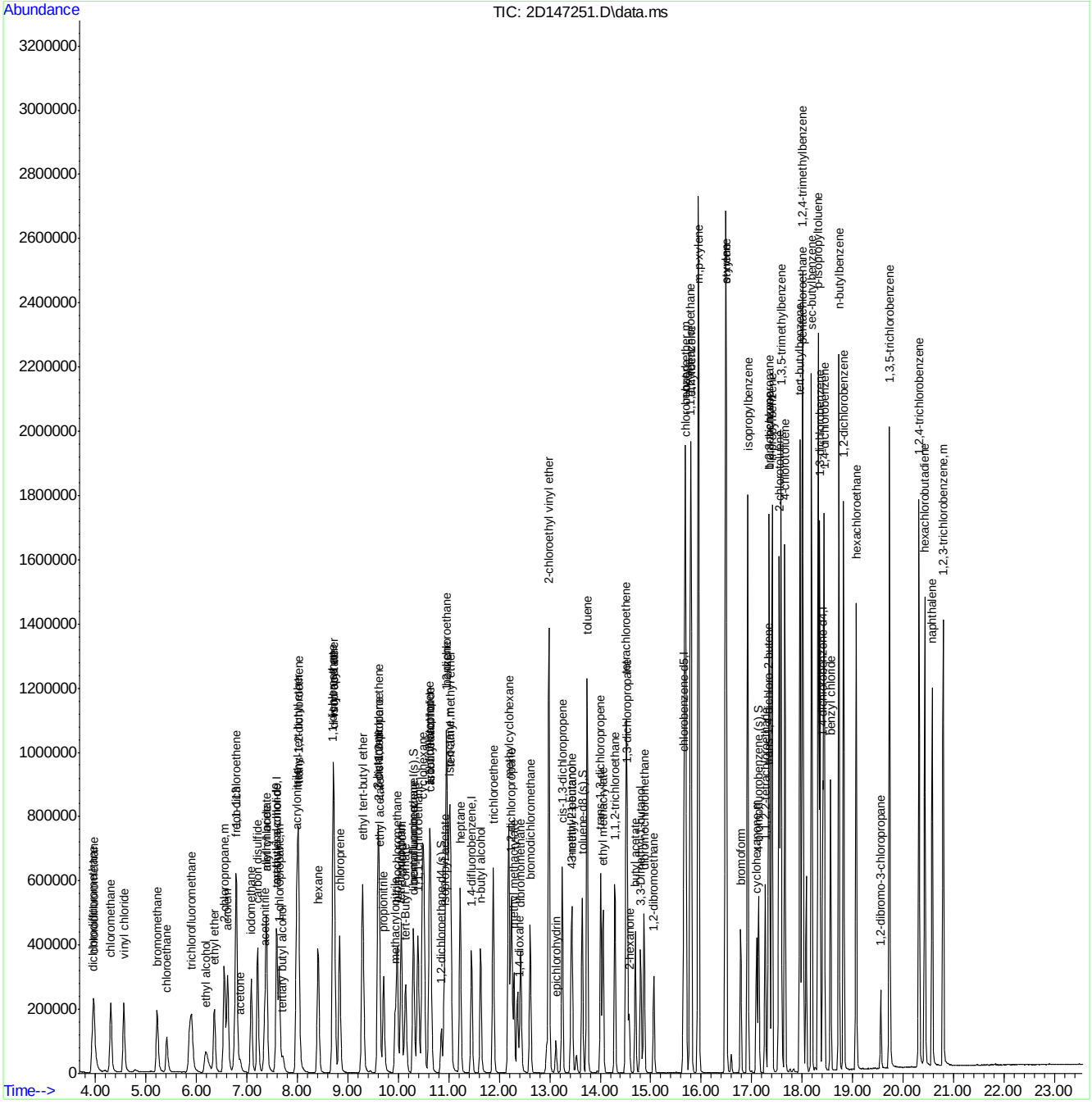
7.7.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147251.D
Acq On : 14 Aug 2015 8:39 pm
Operator : BridgetK
Sample : ic6180-100
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 10:02:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147252.D
Acq On : 14 Aug 2015 9:10 pm
Operator : BridgetK
Sample : ic6180-200
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 10:03:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) tert butyl alcohol-d9	7.580	65	90253	500.00 ug/L	0.00
5) pentafluorobenzene	10.296	168	328739	50.00 ug/L	-0.01
50) 1,4-difluorobenzene	11.449	114	386604	50.00 ug/L	-0.02
78) chlorobenzene-d5	15.654	117	362750	50.00 ug/L	-0.01
93) 1,4-dichlorobenzene-d4	18.412	152	208554	50.00 ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.312	113	114724	49.77 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.54%		
43) 1,2-dichloroethane-d4 (s)	10.852	65	117211	49.44 ug/L	-0.01
Spiked Amount 50.000	Range 73 - 122		Recovery = 98.88%		
70) toluene-d8 (s)	13.641	98	423414	50.42 ug/L	-0.02
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.84%		
95) 4-bromofluorobenzene (s)	17.138	95	167717	50.68 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.36%		

Target Compounds

					Qvalue
2) tertiary butyl alcohol	7.711	59	191309	743.68 ug/L	61
3) ethyl alcohol	6.196	45	430121	12412.08 ug/L	97
4) 1,4-dioxane	12.398	88	97570	3447.14 ug/L #	98
6) chlorodifluoromethane	3.962	51	533463	203.56 ug/L	98
7) dichlorodifluoromethane	3.936	85	729603	238.72 ug/L	96
8) chloromethane	4.303	50	745910	188.03 ug/L	98
9) vinyl chloride	4.560	62	686117	206.66 ug/L	99
10) bromomethane	5.210	94	361570	145.96 ug/L	100
11) chloroethane	5.399	64	271396	161.60 ug/L	99
12) trichlorofluoromethane	5.886	101	823023	201.11 ug/L	99
13) ethyl ether	6.353	74	219764	183.65 ug/L	97
14) acrolein	6.615	56	776428	1925.49 ug/L	99
15) 1,1-dichloroethene	6.788	96	402457	171.36 ug/L	98
16) 2-chloropropane	6.547	43	861686	169.44 ug/L	97
17) acetone	6.867	58	30339	213.14 ug/L	97
18) allyl chloride	7.381	76	227915	187.70 ug/L	94
19) acetonitrile	7.355	40	355457	1671.83 ug/L #	76
20) iodomethane	7.082	142	917604	192.76 ug/L	99
21) carbon disulfide	7.208	76	1478643	186.68 ug/L	99
22) methylene chloride	7.585	84	475697	175.79 ug/L	99
23) methyl acetate	7.386	74	57276	204.65 ug/L	99
24) 1-chloropropane	7.638	63	37009	175.04 ug/L	97
25) methyl tert butyl ether	8.005	73	1231510	173.26 ug/L	100
26) trans-1,2-dichloroethene	8.020	96	453290	173.87 ug/L	98
27) di-isopropyl ether	8.728	45	1596947	179.74 ug/L	88
28) 2-butanone	9.588	72	40534	273.58 ug/L #	87
29) 1,1-dichloroethane	8.697	63	860581	187.20 ug/L	99
30) chloroprene	8.833	53	691031	198.79 ug/L	98
31) acrylonitrile	7.984	53	706092	950.16 ug/L	98
32) vinyl acetate	8.713	86	65529	199.41 ug/L	96
33) ethyl tert-butyl ether	9.289	59	1519054	195.76 ug/L	99
34) ethyl acetate	9.625	45	48917	136.79 ug/L	60
35) 2,2-dichloropropane	9.614	77	699113	164.26 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147252.D
Acq On : 14 Aug 2015 9:10 pm
Operator : BridgetK
Sample : ic6180-200
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 10:03:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	517847	178.92	ug/L		98
37) propionitrile	9.709	54	531310	2054.58	ug/L		95
38) tert-Butyl Formate	10.144	59	419398	190.43	ug/L		99
39) bromochloromethane	9.981	128	266241	193.09	ug/L		98
40) tetrahydrofuran	10.039	42	108076	147.71	ug/L		99
41) chloroform	10.060	83	838921	185.30	ug/L		98
44) freon 113	6.773	151	365079	201.78	ug/L		99
45) methacrylonitrile	9.939	67	152092	194.95	ug/L		97
46) 1,1,1-trichloroethane	10.385	97	775726	192.70	ug/L		98
47) cyclohexane	10.479	84	663150	195.11	ug/L		94
48) isobutyl alcohol	10.616	74	54138	2439.21	ug/L	#	67
49) iso-octane	10.998	57	1601467	198.05	ug/L		99
51) epichlorohydrin	13.122	57	186559	744.18	ug/L		99
52) n-butyl alcohol	11.633	56	519838	6931.19	ug/L		98
53) carbon tetrachloride	10.637	117	703702	183.37	ug/L		98
54) 1,1-dichloropropene	10.616	75	626113	188.55	ug/L		98
55) hexane	8.408	86	69024	205.91	ug/L	#	75
56) benzene	10.951	78	1790254	174.64	ug/L		99
57) tert-amyl methyl ether	11.035	87	304753	172.39	ug/L		98
58) heptane	11.224	57	309869	194.37	ug/L		99
59) isopropyl acetate	10.915	43	777459	172.34	ug/L		99
60) 1,2-dichloroethane	10.967	62	592231	177.54	ug/L		99
61) trichloroethene	11.879	130	533653	192.07	ug/L		97
63) 2-chloroethyl vinyl ether	12.986	63	1306004	921.56	ug/L		98
64) methyl methacrylate	12.294	69	257706	203.88	ug/L		98
65) 1,2-dichloropropane	12.241	63	490645	180.49	ug/L		98
66) dibromomethane	12.425	93	291161	183.00	ug/L		97
67) methylcyclohexane	12.183	83	783570	193.73	ug/L		98
68) bromodichloromethane	12.613	83	686478	189.38	ug/L		99
69) cis-1,3-dichloropropene	13.248	75	811130	189.71	ug/L		98
71) 4-methyl-2-pentanone	13.426	58	150487	181.06	ug/L		98
72) toluene	13.741	92	1168974	190.99	ug/L		97
73) 3-methyl-1-butanol	13.442	55	329298	2554.37	ug/L		100
74) trans-1,3-dichloropropene	14.008	75	739313	193.50	ug/L		99
75) ethyl methacrylate	14.055	69	542714	205.55	ug/L		100
76) 1,1,2-trichloroethane	14.291	83	348782	188.67	ug/L		100
77) 2-hexanone	14.574	58	134132	289.79	ug/L		95
79) 3,3-Dimethyl-1-butanol	14.800	57	405524	1302.53	ug/L		97
80) tetrachloroethene	14.511	164	486071	185.62	ug/L		99
81) 1,3-dichloropropane	14.538	76	660483	172.55	ug/L		98
82) butyl acetate	14.695	56	267841	153.59	ug/L		99
83) dibromochloromethane	14.868	129	582357	187.97	ug/L		98
84) 1,2-dibromoethane	15.062	107	448157	186.21	ug/L		99
85) n-butyl ether	15.681	57	2281715	185.84	ug/L		99
86) chlorobenzene	15.696	112	1371950	180.64	ug/L		99
87) 1,1,1,2-tetrachloroethane	15.785	131	573534	187.47	ug/L		100
88) ethylbenzene	15.801	91	2262989	177.74	ug/L		98
89) m,p-xylene	15.948	106	1789662	371.03	ug/L		94
90) o-xylene	16.483	106	943558	184.40	ug/L		94
91) styrene	16.498	104	1521323	187.76	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147252.D
Acq On : 14 Aug 2015 9:10 pm
Operator : BridgetK
Sample : ic6180-200
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 10:03:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration

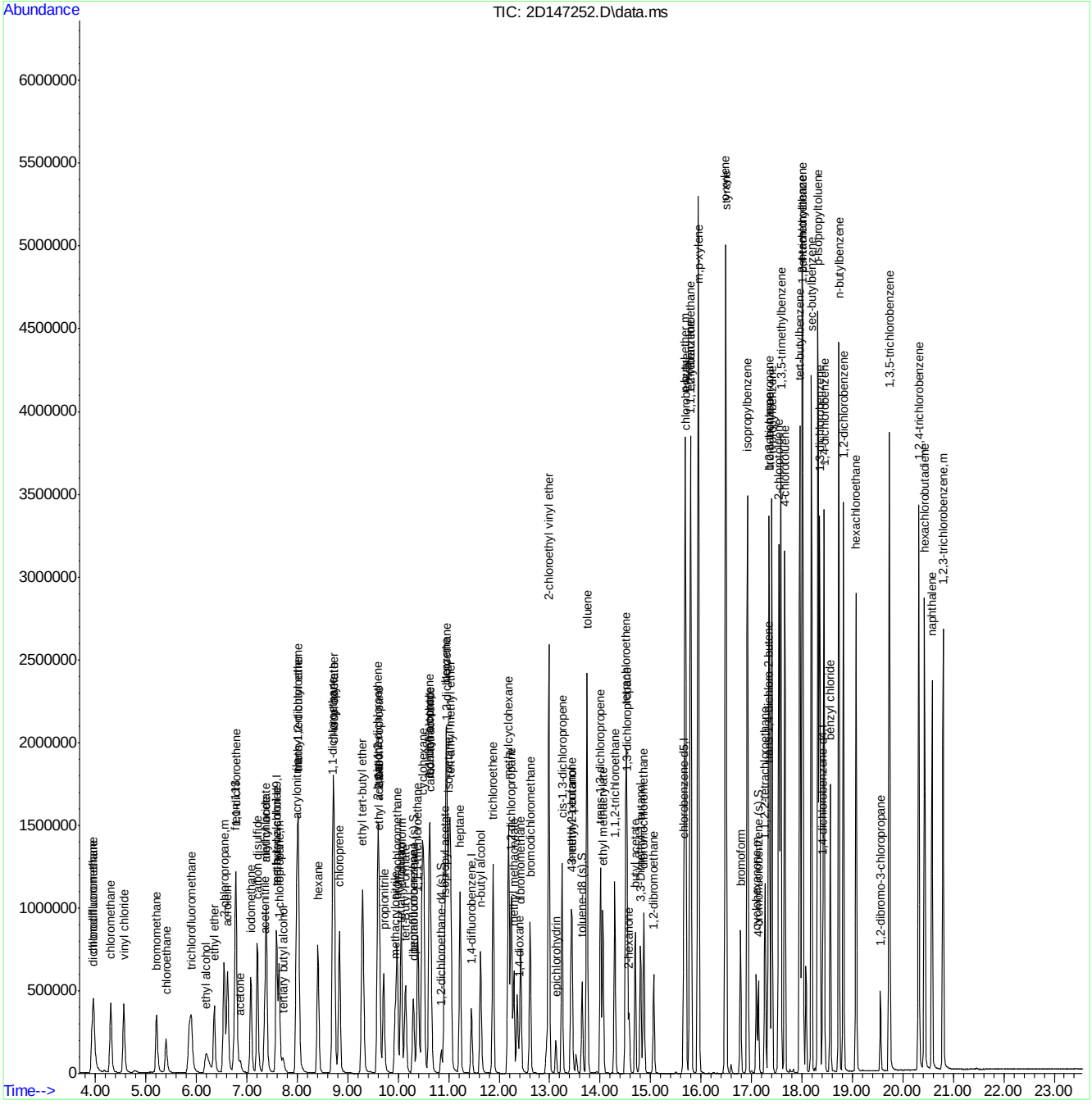
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.782	173	441436	192.95 ug/L	98
94) isopropylbenzene	16.923	105	2469798	194.82 ug/L	99
96) cyclohexanone	17.096	55	247546	980.79 ug/L	98
97) bromobenzene	17.348	156	699494	181.98 ug/L	96
98) 1,1,2,2-tetrachloroethane	17.269	83	569253	185.79 ug/L	98
99) trans-1,4-dichloro-2-b...	17.327	53	140389	188.88 ug/L	99
100) 1,2,3-trichloropropane	17.348	110	137612	171.94 ug/L	96
101) n-propylbenzene	17.405	91	2717664	190.62 ug/L	99
102) 2-chlorotoluene	17.547	126	639322	193.47 ug/L	95
103) 4-chlorotoluene	17.657	91	1751531	188.44 ug/L	99
104) 1,3,5-trimethylbenzene	17.584	105	2099870	191.19 ug/L	99
105) tert-butylbenzene	17.961	119	1903756	196.13 ug/L	98
106) pentachloroethane	18.019	167	480304	185.73 ug/L	99
107) 1,2,4-trimethylbenzene	18.003	105	2082161	193.37 ug/L	99
108) sec-butylbenzene	18.187	105	2841911	200.05 ug/L	100
109) 1,3-dichlorobenzene	18.354	146	1330676	190.35 ug/L	100
110) p-isopropyltoluene	18.318	119	2469059	192.83 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	1351210	191.44 ug/L	98
112) 1,2-dichlorobenzene	18.821	146	1323574	190.66 ug/L	97
113) benzyl chloride	18.564	91	1133515	141.79 ug/L	99
114) n-butylbenzene	18.732	92	1236852	215.44 ug/L	97
115) 1,2-dibromo-3-chloropr...	19.560	157	140962	183.21 ug/L	98
116) 1,3,5-trichlorobenzene	19.733	180	1289348	207.92 ug/L	100
117) hexachlorobutadiene	20.431	225	649107	198.79 ug/L	99
118) naphthalene	20.578	128	1821757	225.18 ug/L	100
119) 1,2,4-trichlorobenzene	20.315	180	1131642	220.18 ug/L	99
120) 1,2,3-trichlorobenzene	20.798	180	940712	217.12 ug/L	100
121) hexachloroethane	19.073	201	550933	219.30 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147252.D
Acq On : 14 Aug 2015 9:10 pm
Operator : BridgetK
Sample : ic6180-200
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 10:03:14 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 09:17:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147255.D
Acq On : 14 Aug 2015 10:40 pm
Operator : BridgetK
Sample : icv6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 10:04:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:01:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.564	65	76510	500.00	ug/L	-0.02
5) pentafluorobenzene	10.291	168	320827	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.449	114	372011	50.00	ug/L	0.00
78) chlorobenzene-d5	15.654	117	346553	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	18.412	152	202766	50.00	ug/L	0.00

System Monitoring Compounds

42) dibromofluoromethane (s)	10.306	113	112334	49.87	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.74%			
43) 1,2-dichloroethane-d4 (s)	10.847	65	117709	50.46	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.92%			
70) toluene-d8 (s)	13.641	98	409454	50.59	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.18%			
95) 4-bromofluorobenzene (s)	17.133	95	162454	50.57	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.14%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.701	59	46289	240.45	ug/L	96
3) ethyl alcohol	6.170	45	97215	4219.64	ug/L	94
4) 1,4-dioxane	12.393	88	20819	1117.60	ug/L #	96
6) chlorodifluoromethane	3.957	51	125091	49.07	ug/L	97
7) dichlorodifluoromethane	3.931	85	194143	60.08	ug/L	97
8) chloromethane	4.282	50	193864	51.84	ug/L	96
9) vinyl chloride	4.544	62	174990	53.53	ug/L	100
10) bromomethane	5.215	94	111766	52.49	ug/L	98
11) chloroethane	5.404	64	86939	59.79	ug/L	98
12) trichlorofluoromethane	5.876	101	204974	52.44	ug/L	100
13) ethyl ether	6.348	74	57564	52.95	ug/L	92
14) acrolein	6.610	56	199468	519.80	ug/L	99
15) 1,1-dichloroethene	6.783	96	104924	50.56	ug/L	95
16) 2-chloropropane	6.547	43	225953	52.52	ug/L	99
17) acetone	6.867	58	7928	51.79	ug/L #	85
18) allyl chloride	7.381	76	64040	55.85	ug/L	90
19) acetonitrile	7.349	40	93924	521.21	ug/L	95
20) iodomethane	7.077	142	237761	51.85	ug/L	99
21) carbon disulfide	7.208	76	402175	53.70	ug/L	98
22) methylene chloride	7.585	84	123672	51.05	ug/L	99
23) methyl acetate	7.381	74	14348	49.65	ug/L	96
24) 1-chloropropane	7.638	63	9995	50.21	ug/L	88
25) methyl tert butyl ether	7.994	73	640634	97.42	ug/L	89
26) trans-1,2-dichloroethene	8.021	96	115190	49.56	ug/L	97
27) di-isopropyl ether	8.718	45	421669	49.94	ug/L	99
28) 2-butanone	9.588	72	10346	52.40	ug/L	74
29) 1,1-dichloroethane	8.697	63	227047	52.29	ug/L	99
30) chloroprene	8.833	53	183461	53.80	ug/L	98
31) acrylonitrile	7.979	53	183412	260.94	ug/L	99
32) vinyl acetate	8.707	86	18559	56.82	ug/L	91
33) ethyl tert-butyl ether	9.289	59	390556	51.35	ug/L	99
34) ethyl acetate	9.625	45	13613	52.48	ug/L #	42
35) 2,2-dichloropropane	9.614	77	178485	46.69	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147255.D
Acq On : 14 Aug 2015 10:40 pm
Operator : BridgetK
Sample : icv6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 10:04:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:01:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	9.599	96	131744	50.81	ug/L		98
37) propionitrile	9.709	54	125095	488.91	ug/L		88
38) tert-Butyl Formate	10.144	59	104074	49.50	ug/L		100
39) bromochloromethane	9.976	128	67299	50.68	ug/L		94
40) tetrahydrofuran	10.039	42	28719	50.74	ug/L		98
41) chloroform	10.060	83	221744	51.53	ug/L		99
44) freon 113	6.773	151	105716	59.31	ug/L		100
45) methacrylonitrile	9.934	67	38488	52.64	ug/L		95
46) 1,1,1-trichloroethane	10.380	97	201965	52.41	ug/L		98
47) cyclohexane	10.474	84	164951	50.87	ug/L		99
48) isobutyl alcohol	10.616	74	14160	515.63	ug/L	#	78
49) iso-octane	10.999	57	448692	56.13	ug/L		99
51) epichlorohydrin	13.122	57	47099	252.98	ug/L		98
52) n-butyl alcohol	11.628	56	115807	2249.16	ug/L		96
53) carbon tetrachloride	10.632	117	186566	51.34	ug/L		98
54) 1,1-dichloropropene	10.611	75	162681	51.35	ug/L		99
55) hexane	8.408	86	15819	47.08	ug/L	#	93
56) benzene	10.946	78	466852	49.61	ug/L		99
57) tert-amyl methyl ether	11.030	87	78849	49.96	ug/L		100
58) heptane	11.224	57	84849	56.10	ug/L		96
59) isopropyl acetate	10.909	43	198825	52.17	ug/L		99
60) 1,2-dichloroethane	10.962	62	159265	51.93	ug/L		99
61) trichloroethene	11.879	130	134080	51.62	ug/L		97
63) 2-chloroethyl vinyl ether	12.980	63	371944	286.06	ug/L		99
64) methyl methacrylate	12.294	69	66822	54.26	ug/L		100
65) 1,2-dichloropropane	12.236	63	126965	50.12	ug/L		99
66) dibromomethane	12.419	93	74569	50.41	ug/L		94
67) methylcyclohexane	12.183	83	205672	54.27	ug/L		91
68) bromodichloromethane	12.608	83	177557	51.38	ug/L		98
69) cis-1,3-dichloropropene	13.248	75	204524	50.70	ug/L		99
71) 4-methyl-2-pentanone	13.421	58	39054	52.55	ug/L		95
72) toluene	13.741	92	294783	51.04	ug/L		99
73) 3-methyl-1-butanol	13.437	55	78048	916.78	ug/L		100
74) trans-1,3-dichloropropene	14.008	75	178604	49.95	ug/L		99
75) ethyl methacrylate	14.055	69	135873	52.56	ug/L		99
76) 1,1,2-trichloroethane	14.291	83	88644	51.15	ug/L		96
77) 2-hexanone	14.574	58	34089	53.81	ug/L		98
79) 3,3-Dimethyl-1-butanol	14.800	57	93949	464.66	ug/L		99
80) tetrachloroethene	14.511	164	122955	49.63	ug/L		98
81) 1,3-dichloropropane	14.532	76	170602	49.67	ug/L		99
82) butyl acetate	14.695	56	66179	49.68	ug/L		100
83) dibromochloromethane	14.868	129	148468	51.58	ug/L		99
84) 1,2-dibromoethane	15.062	107	112600	50.87	ug/L		98
85) n-butyl ether	15.675	57	569804	51.04	ug/L		100
86) chlorobenzene	15.691	112	354178	50.58	ug/L		99
87) 1,1,1,2-tetrachloroethane	15.780	131	146279	50.58	ug/L		98
88) ethylbenzene	15.796	91	580864	49.39	ug/L		99
89) m,p-xylene	15.943	106	454478	101.82	ug/L		98
90) o-xylene	16.483	106	241407	51.72	ug/L		100
91) styrene	16.493	104	389477	51.15	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147255.D
Acq On : 14 Aug 2015 10:40 pm
Operator : BridgetK
Sample : icv6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 10:04:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:01:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.782	173	110463	51.06 ug/L	99
94) isopropylbenzene	16.918	105	626267	51.62 ug/L	100
96) cyclohexanone	17.096	55	36141	221.93 ug/L	98
97) bromobenzene	17.348	156	181313	50.88 ug/L	99
98) 1,1,2,2-tetrachloroethane	17.269	83	143153	50.04 ug/L	99
99) trans-1,4-dichloro-2-b...	17.327	53	34615	49.51 ug/L	86
100) 1,2,3-trichloropropane	17.348	110	36333	50.98 ug/L	97
101) n-propylbenzene	17.400	91	729186	53.87 ug/L	99
102) 2-chlorotoluene	17.542	126	160456	50.67 ug/L	95
103) 4-chlorotoluene	17.657	91	443874	50.86 ug/L	98
104) 1,3,5-trimethylbenzene	17.579	105	534824	50.84 ug/L	98
105) tert-butylbenzene	17.956	119	485026	51.94 ug/L	98
106) pentachloroethane	18.019	167	126138	54.28 ug/L	100
107) 1,2,4-trimethylbenzene	18.003	105	555230	53.39 ug/L	98
108) sec-butylbenzene	18.187	105	720184	52.26 ug/L	100
109) 1,3-dichlorobenzene	18.349	146	340368	51.11 ug/L	99
110) p-isopropyltoluene	18.318	119	630929	52.02 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	342561	50.97 ug/L	99
112) 1,2-dichlorobenzene	18.821	146	346499	52.03 ug/L	99
113) benzyl chloride	18.559	91	285272	48.59 ug/L	100
114) n-butylbenzene	18.727	92	316569	55.01 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.560	157	35193	51.85 ug/L	97
116) 1,3,5-trichlorobenzene	19.733	180	334317	53.67 ug/L	99
117) hexachlorobutadiene	20.431	225	166020	52.41 ug/L	99
118) naphthalene	20.578	128	463454	55.71 ug/L	99
119) 1,2,4-trichlorobenzene	20.315	180	289295	56.27 ug/L	99
120) 1,2,3-trichlorobenzene	20.793	180	241110	54.85 ug/L	100
121) hexachloroethane	19.073	201	137683	54.89 ug/L	99

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

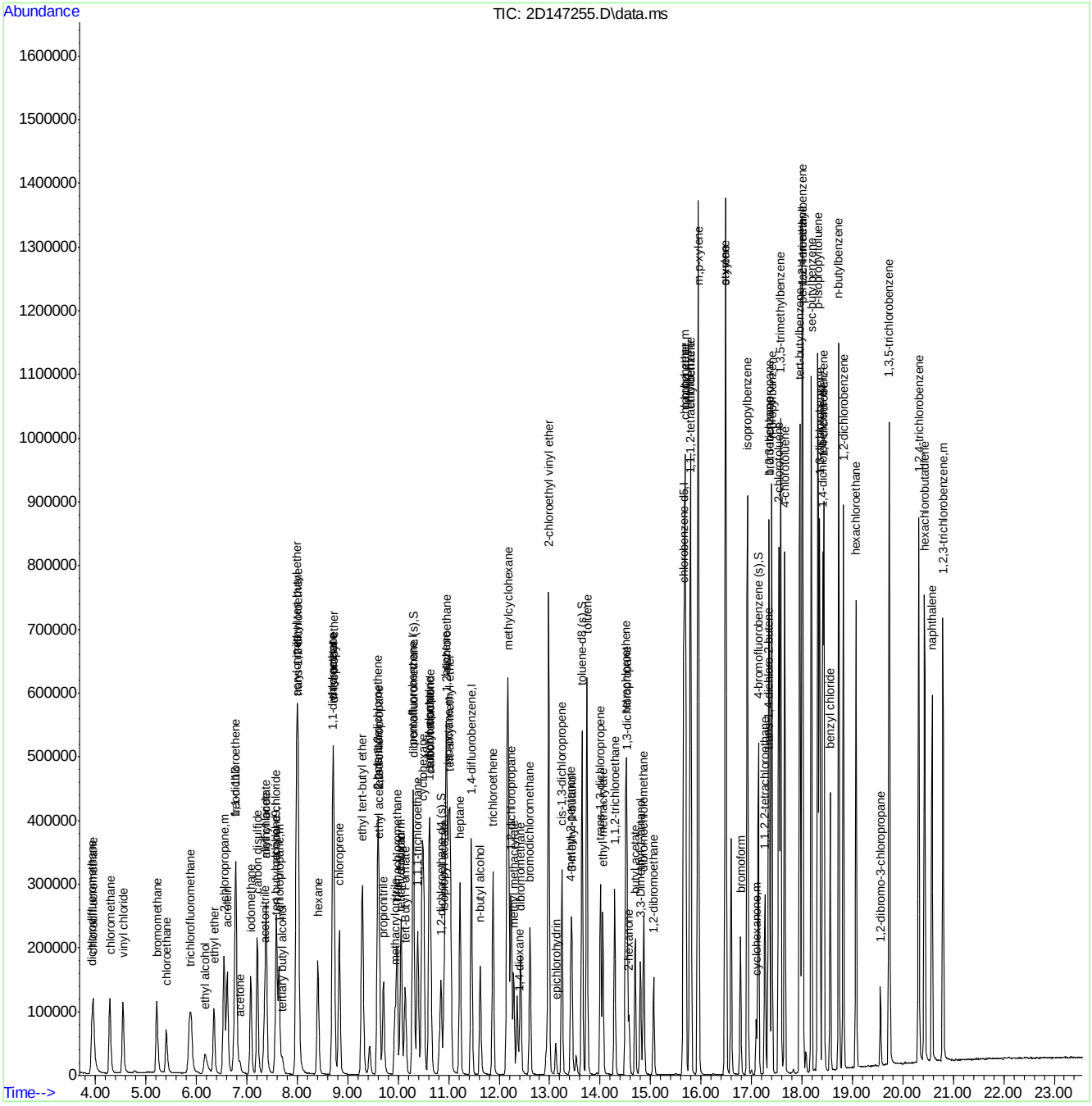
7.7.29

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6171-6180\
Data File : 2D147255.D
Acq On : 14 Aug 2015 10:40 pm
Operator : BridgetK
Sample : icv6180-50
Misc : ms89231,v2d6180,w,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 10:04:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:01:12 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147883.D
Acq On : 9 Sep 2015 9:53 am
Operator : BridgetK
Sample : cc6180-20
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 09:41:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.570	65	92582	500.00	ug/L	-0.01
5) pentafluorobenzene	10.296	168	381557	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.449	114	432479	50.00	ug/L	0.00
78) chlorobenzene-d5	15.654	117	430885	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	18.412	152	249193	50.00	ug/L	0.00

System Monitoring Compounds						
42) dibromofluoromethane (s)	10.312	113	145842	54.44	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.88%			
43) 1,2-dichloroethane-d4 (s)	10.846	65	148199	53.42	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.84%			
70) toluene-d8 (s)	13.646	98	531850	56.52	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 113.04%			
95) 4-bromofluorobenzene (s)	17.138	95	216136	54.74	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.48%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.701	59	19684	84.50	ug/L	98
3) ethyl alcohol	6.159	45	45505	1632.27	ug/L	99
4) 1,4-dioxane	12.393	88	9428	418.25	ug/L #	97
6) chlorodifluoromethane	3.968	51	60085	19.82	ug/L	94
7) dichlorodifluoromethane	3.952	85	99704	25.94	ug/L	98
8) chloromethane	4.298	50	95753	21.53	ug/L	97
9) vinyl chloride	4.555	62	91381	23.50	ug/L	98
10) bromomethane	5.231	94	58784	23.21	ug/L	98
11) chloroethane	5.420	64	38156	22.06	ug/L	95
12) trichlorofluoromethane	5.907	101	110706	23.82	ug/L	98
13) ethyl ether	6.353	74	24689	19.10	ug/L	91
14) acrolein	6.621	56	79761	174.77	ug/L	100
15) 1,1-dichloroethene	6.794	96	48456	19.63	ug/L	98
16) 2-chloropropane	6.552	43	91459	17.87	ug/L	98
17) acetone	6.872	58	3716	20.41	ug/L #	51
18) allyl chloride	7.381	76	26795	19.65	ug/L #	79
19) acetonitrile	7.355	40	32099	149.78	ug/L	96
20) iodomethane	7.082	142	106123	19.46	ug/L	99
21) carbon disulfide	7.213	76	179674	20.17	ug/L	99
22) methylene chloride	7.591	84	55555	19.28	ug/L	88
23) methyl acetate	7.381	74	7027	20.45	ug/L	89
24) 1-chloropropane	7.648	63	4475	18.90	ug/L	85
25) methyl tert butyl ether	7.999	73	144408	18.46	ug/L	98
26) trans-1,2-dichloroethene	8.020	96	53373	19.31	ug/L	99
27) di-isopropyl ether	8.723	45	158173	15.75	ug/L	79
28) 2-butanone	9.593	72	4533	19.31	ug/L	83
29) 1,1-dichloroethane	8.697	63	95948	18.58	ug/L	98
30) chloroprene	8.833	53	66996	16.52	ug/L	97
31) acrylonitrile	7.979	53	69300	82.90	ug/L	98
32) vinyl acetate	8.718	86	4620	11.89	ug/L	98
33) ethyl tert-butyl ether	9.289	59	158885	17.56	ug/L	98
34) ethyl acetate	9.620	45	4994	16.19	ug/L	51
35) 2,2-dichloropropane	9.620	77	95614	21.03	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147883.D
Acq On : 9 Sep 2015 9:53 am
Operator : BridgetK
Sample : cc6180-20
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 09:41:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	9.593	96	59273	19.22 ug/L	95
37) propionitrile	9.703	54	50400	165.63 ug/L	93
38) tert-Butyl Formate	10.139	59	42447	16.97 ug/L	98
39) bromochloromethane	9.976	128	30173	19.11 ug/L	91
40) tetrahydrofuran	10.044	42	10183	15.13 ug/L	91
41) chloroform	10.055	83	97889	19.13 ug/L	98
44) freon 113	6.783	151	42405	20.00 ug/L	97
45) methacrylonitrile	9.934	67	15396	17.71 ug/L	92
46) 1,1,1-trichloroethane	10.390	97	92924	20.27 ug/L	97
47) cyclohexane	10.485	84	81675	21.18 ug/L	89
48) isobutyl alcohol	10.611	74	6164	188.74 ug/L #	64
49) iso-octane	10.998	57	179222	18.85 ug/L	97
51) epichlorohydrin	13.122	57	17493	80.82 ug/L	96
52) n-butyl alcohol	11.628	56	47549	794.36 ug/L	96
53) carbon tetrachloride	10.637	117	86764	20.54 ug/L	98
54) 1,1-dichloropropene	10.616	75	70301	19.09 ug/L	96
55) hexane	8.408	86	6269	16.05 ug/L #	67
56) benzene	10.946	78	204643	18.70 ug/L	100
57) tert-amyl methyl ether	11.035	87	34415	18.76 ug/L	96
58) heptane	11.224	57	31572	17.95 ug/L	94
59) isopropyl acetate	10.909	43	67994	15.35 ug/L	93
60) 1,2-dichloroethane	10.962	62	67093	18.82 ug/L	99
61) trichloroethene	11.879	130	58898	19.51 ug/L	93
63) 2-chloroethyl vinyl ether	12.980	63	124285	82.22 ug/L	97
64) methyl methacrylate	12.294	69	26289	18.36 ug/L	83
65) 1,2-dichloropropane	12.241	63	53797	18.27 ug/L	96
66) dibromomethane	12.419	93	31976	18.59 ug/L	92
67) methylcyclohexane	12.183	83	83875	19.04 ug/L	96
68) bromodichloromethane	12.613	83	75673	18.84 ug/L	98
69) cis-1,3-dichloropropene	13.248	75	89815	19.15 ug/L	95
71) 4-methyl-2-pentanone	13.421	58	15020	17.39 ug/L #	85
72) toluene	13.741	92	132051	19.67 ug/L	97
73) 3-methyl-1-butanol	13.442	55	31900	322.32 ug/L	94
74) trans-1,3-dichloropropene	14.013	75	81412	19.58 ug/L	99
75) ethyl methacrylate	14.055	69	56275	18.73 ug/L	96
76) 1,1,2-trichloroethane	14.291	83	39142	19.43 ug/L	97
77) 2-hexanone	14.574	58	13840	18.79 ug/L	93
79) 3,3-Dimethyl-1-butanol	14.800	57	36770	146.27 ug/L	99
80) tetrachloroethene	14.517	164	54915	17.83 ug/L	98
81) 1,3-dichloropropane	14.538	76	74572	17.46 ug/L	92
82) butyl acetate	14.700	56	26891	16.24 ug/L #	84
83) dibromochloromethane	14.868	129	64293	17.96 ug/L	97
84) 1,2-dibromoethane	15.067	107	48295	17.55 ug/L	97
85) n-butyl ether	15.681	57	242193	17.45 ug/L	97
86) chlorobenzene	15.696	112	158930	18.25 ug/L	97
87) 1,1,1,2-tetrachloroethane	15.785	131	67073	18.65 ug/L	95
88) ethylbenzene	15.801	91	268379	18.35 ug/L	98
89) m,p-xylene	15.948	106	208091	37.50 ug/L	97
90) o-xylene	16.488	106	107089	18.45 ug/L	98
91) styrene	16.498	104	180574	19.07 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147883.D
Acq On : 9 Sep 2015 9:53 am
Operator : BridgetK
Sample : cc6180-20
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 09:41:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) bromoform	16.787	173	48094	17.88 ug/L	96
94) isopropylbenzene	16.923	105	291275	19.53 ug/L	99
96) cyclohexanone	17.096	55	69071	345.12 ug/L	95
97) bromobenzene	17.353	156	82810	18.91 ug/L	93
98) 1,1,2,2-tetrachloroethane	17.269	83	64446	18.33 ug/L	97
99) trans-1,4-dichloro-2-b...	17.332	53	13564	15.79 ug/L #	61
100) 1,2,3-trichloropropane	17.353	110	16514	18.85 ug/L #	77
101) n-propylbenzene	17.405	91	327772	19.70 ug/L	99
102) 2-chlorotoluene	17.547	126	74619	19.17 ug/L	92
103) 4-chlorotoluene	17.662	91	210252	19.60 ug/L	99
104) 1,3,5-trimethylbenzene	17.584	105	256728	19.86 ug/L	99
105) tert-butylbenzene	17.961	119	225417	19.64 ug/L	99
106) pentachloroethane	18.024	167	59139	20.71 ug/L	99
107) 1,2,4-trimethylbenzene	18.008	105	256760	20.09 ug/L	97
108) sec-butylbenzene	18.192	105	344476	20.34 ug/L	100
109) 1,3-dichlorobenzene	18.354	146	166123	20.30 ug/L	98
110) p-isopropyltoluene	18.318	119	299099	20.07 ug/L	99
111) 1,4-dichlorobenzene	18.438	146	163524	19.80 ug/L	98
112) 1,2-dichlorobenzene	18.826	146	165496	20.22 ug/L	99
113) benzyl chloride	18.564	91	142863	19.80 ug/L	99
114) n-butylbenzene	18.732	92	147519	20.86 ug/L	99
115) 1,2-dibromo-3-chloropr...	19.560	157	15249	18.28 ug/L	98
116) 1,3,5-trichlorobenzene	19.733	180	156690	20.47 ug/L	98
117) hexachlorobutadiene	20.436	225	81640	20.97 ug/L	98
118) naphthalene	20.583	128	205465	20.10 ug/L	99
119) 1,2,4-trichlorobenzene	20.321	180	128682	20.37 ug/L	98
120) 1,2,3-trichlorobenzene	20.798	180	109836	20.33 ug/L	100
121) hexachloroethane	19.078	201	61373	19.91 ug/L	97

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

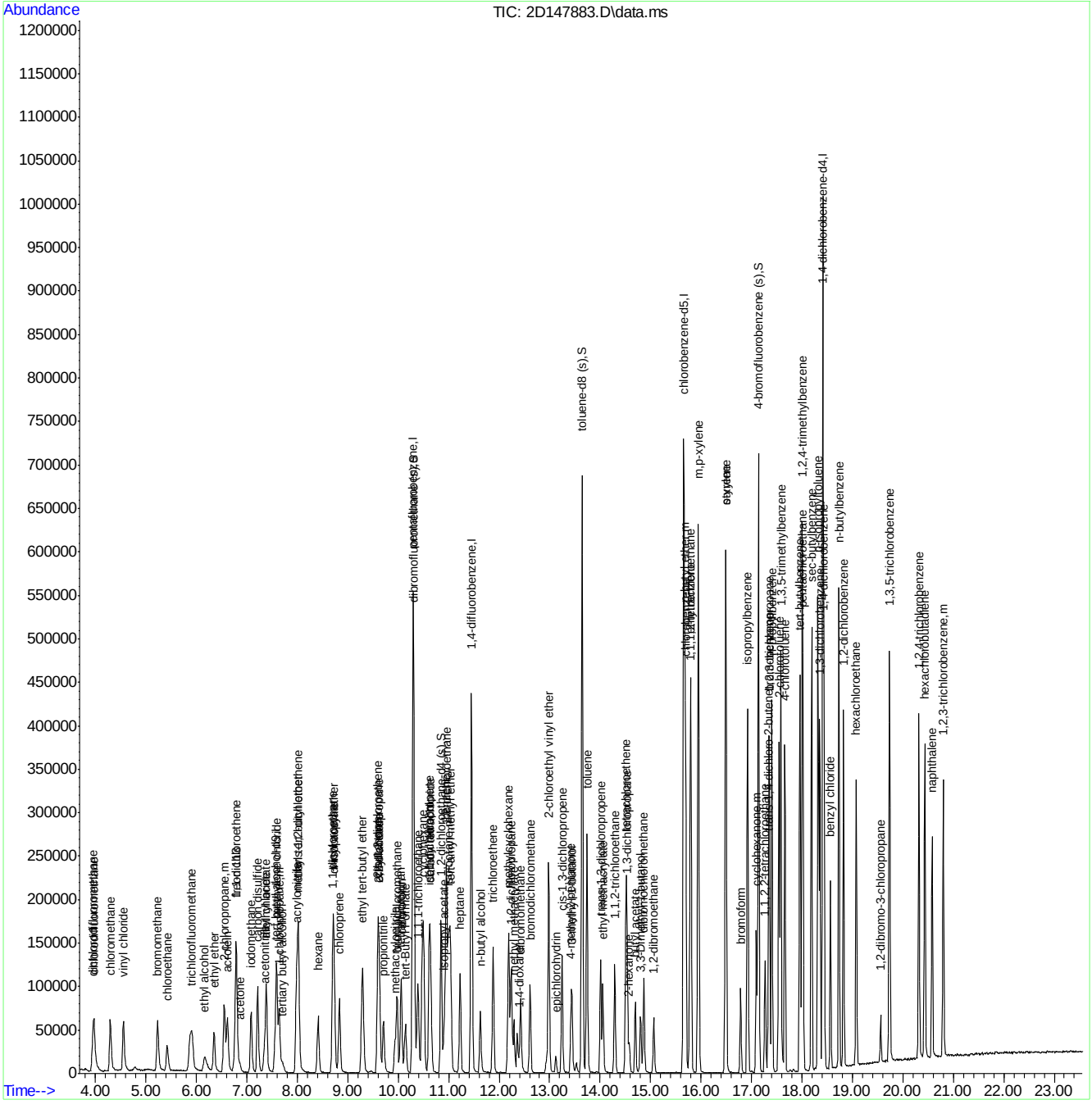
7.7.30

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2D\v2d6201-6210\v2d6208\
Data File : 2D147883.D
Acq On : 9 Sep 2015 9:53 am
Operator : BridgetK
Sample : cc6180-20
Misc : ms90617,v2d6208,w,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 09:41:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6180.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Aug 17 10:14:33 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JC3254R

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5926

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: TBC624 (60m x 0.25mm x 1.4

Method VBL600C

Initial Cal. Method V2B5926

Date: 7/24/15

V0152114-68 vinyl bromide 100ppm
V0152114-69 13 Butd 100ppm
V0152114-22(1) ext ethyl acrylate 1000ppm
V0152114-21(1) ethyl acrylate 1000ppm

Standard Data

Lot #	Description	Conc.
V0152114-41	(41) A	100 ppm
V0152114-72	(7) B	100 ppm
V0152114-74	(3) C	100 ppm
V0152114-54	(23) acro	1000 ppm
V0152114-30	(11) etoh	10000 ppm
V0152114-43	(5) 2000	2000 ppm

Standard Data

Lot #	Description	Conc.
V0152114-49	(17) Ext A	100 ppm
V0152114-73	(3) Ext B	100 ppm
V0152114-65	(5) Ext C	100 ppm
V0152114-48	(2) Ext acro	1000 ppm
V0152114-35	(2) Ext etoh	10000 ppm
V0152114-37	(2) Ext acro	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/29/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2B132807	BFB											ok	10:1 60am	
	132808	JCS926-0.2	8260 calibration	W			S		1x				ok	1uL ABC acro etoh / 500mL	
	132809	JCS926-0.5	✓	W			S		1x				ok	2.5uL ABC acro etoh / 500mL	
	132810	JCS926-1	✓	W			S		1x				ok	1uL ABC acro etoh / 100mL	
	132811	JCS926-2	✓	W			S		1x				ok	2uL ABC acro etoh / 100mL	
	132812	JCS926-5	✓	W			S		1x				ok	5uL ABC acro etoh / 100mL	
	132813	JCS926-10	✓	W			S		1x				ok	10uL ABC acro etoh / 100mL	
	132814	JCS926-20	✓	W			S		1x				ok	20uL ABC acro etoh / 100mL	
	132815	JCS926-50	✓	W			S		1x				ok	50uL ABC acro etoh / 100mL	
	132816	JCS926-100	✓	W			S		1x				ok	100uL ABC acro etoh / 100mL	
	132817	JCS926-200	✓	W			S		1x				ok	200uL ABC acro etoh / 100mL	
	132818	JB											—		
	132819	JB											—		
	132820	JCUS926-50		W			S		1x				ok	50uL EXT ABC acro etoh / 100mL	
	132821	JB											—		

BIC 7/24/15

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5985

Print Analyst Name: Bridgetkelly

Analyst Signature: Bridgetkelly

Columns: 7B(624(60mx0.25mmx1.4um))

Method V8260C

Initial Cal. Method M2B5926

Date: 9/10/15

pH paper 216814

Standard Data

Lot #	Description	Conc.
V05209-6	(44) A	100 ppm
V05209-132	(50) B	100 ppm
V05209-25	(4) C	100 ppm
V05209-20	(13) OCD	1000 ppm
V05209-2	(3) EtOH	10000 ppm
V05209-32		

Standard Data

Lot #	Description	Conc.
V05209-1	(16) BX+ A	100 ppm
V05209-79	(3) BX+ B	100 ppm
V05209-21	(6) BX+ C	100 ppm
V05209-16	(5) SX+ OCD	1000 ppm
V05209-146	(5) BX+ EtOH	10000 ppm
V05209-138	(2) BX+ DX	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 9/14/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134296	TB				1							✓	changed IS internal 7A	
	134297	BFB				2							OK	#32↑ 9:03am	
	134298	CCS926-20				3							OK	20ul BBCCCDEtOH/100ml	
	134299	TB				4							✓		
	134300	MB				5				+	W		OK		
	134301	BS				6					W		OK	TBA+L SOULEX+ABCCCDEtOH 1x/100ml	
	134302	TB				7					W		✓		
	134303	JC3198-6	90577 TCL20+	W	2	8	5		1x	+	W		OK		✓
	134304	JC3137-1	90787 TCL20	W	1	9	5		1x		W		OK		✓
	134305	JC3137-2	✓	W	2	10	5		1x		W		OK		✓
	134306	JC3137-3	✓	W	1	11	2.5/50		20x		W		OK		✓
	134307	JC3137-3	✓	W	1	12	25ul/50ml		200x		W		not used		✓
F/D	134308	JC3092-7	90772 TCL20+	W	1S	13	10/50		5x		W		OK	+2B134256	✓
	134309	JC3092-8	✓	W	1	14	5		1x	+	W		OK		✓
	134310	JC3092-9	✓	W	5	15	5		1x	+	W		OK		✓
	134311	JC3092-10	✓	W	4	16	5		1x	+	W		OK		✓
	134312	JC3137-3MS	90787 TCL20	W	1	17	2.5/50		20x		W		OK	SOULEX+ABCCCDEtOH 1x/100ml	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5985

Date: 9/10/15

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624(60m x 0.25mm x 1.40um)

Method V8260C

Initial Cal. Method M2B5926

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SCP 2	105	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/11/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134313	JC337-3msd	90787 TCL20	W	4		25 50		20x		W		OK		✓
	134314	IB									W		✓		
	134315	JC3198-4	90877 TCL20+	W	2		5		1x	+	W		OK		✓
	134316	JC3198-5	✓	W	2		5		1x	+	W		OK		✓
	134317	JC3254-2	90889 SL2	W	1		5		1x		W		OK	+benz, tol	✓
	134318	JC3254-3	✓	W	2		5		1x		W		RR	BRIX matrix clot?	✓
	134319	JC3254-4	✓	W	1		5		1x		W		OK		✓
	134320	JC3254-5	✓	TB	1		5		1x		W		OK	9:12pm	✓
														BK 9/10/15	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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7.8.2

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5988

Date: 9/11/15

pH prepped 2/10/14

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 (60m x 0.25mm x 1.4um)

Method UE260C

Initial Cal. Method MJB5926

Standard Data

Lot #	Description	Conc.
1005179-6	(52) A	100 ppm
1005179-11	(21) B	100 ppm
1005179-33	(6) C	100 ppm
1005179-26	(4) acm	1000 ppm
1005179-2	(5) eOH	1000 ppm
1005179-33	(5)	2000 ppm

Standard Data

Lot #	Description	Conc.
1005179-40	(1) ~~BC~~ A	100 ppm
1005179-19	(17) ~~BC~~ B	100 ppm
1005179-21	(4) ~~BC~~ C	100 ppm
1005179-16	(5) ~~BC~~ acm	1000 ppm
1005114-116	(5) ~~BC~~ eOH	1000 ppm
1005179-27	(9) ~~BC~~ Hex	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: no **Date:** 9/14/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134372	BFB				26							OK 9:59 pm		
	134373	CC 5926-50											OK	SOLUCABCacmeOH 100mL	
	134374	TB											✓		
	134375	MB									W		OK		
	134376	BS									W		OK	SOLUCABCacmeOH HCl 100mL	
	134377	JC3254-25ms	90589 SL3	W	17		5/50		10x		W		OK	SOLUCABCacmeOH HCl 100mL	
	134378	JC3254-25msd	✓	W	17		5/50		10x		W		OK		✓
	134379	TB									W		✓		
	134380	JC3254-25	✓	W	17		5/50		10x		W		OK		✓
	134381	JC3254-25	✓	W	17		0.5/50		100x		W		OK		✓
	134382	JC3254-26	✓	W	1		5		1x		W		OK		✓
	134383	JC3254-27	✓	W	1		5		1x		W		OK		✓
	134384	JC3254-28	✓	W	4		soluc 50mL		1000x		W		OK	9DRR2000	✓
	134385	JC3254-28	✓	W	4		soluc 50mL		10000x		W		Not used		✓
	134386	JC3254-29	✓	W	1		5		1x		W		OK		✓
	134387	JC3254-30	✓	W	4		5		1x		W		OK	SL2 ebnz, tol	✓
	134388	JC3254-31	✓	W	2		5		1x		W		OK		✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5988

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 (60mx0.25mmx1.4um)

Method: V8260C

Initial Cal. Method: V2B5926

Date: 9/11/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SCL 1/20	117	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: HO Date: 9/14/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	ZB134389	JC3254-20	90889 SL3	W	2		20ml/5ml		250x		N		OK/R	25x OIDRR BK 9/14	✓
	134390	JC3254-21	✓	W	4		5		1x		N		OK		✓
	134391	JC3254-22	✓	W	2		5		1x		N		OK		✓
	134392	JC3254-23	✓	W	2		5		1x		N		OK		✓
	134393	JC3254-24	✓	W	5		5		1x		N		OK	7:57am	✓
														BK 9/11/15	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5989

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 60mx0.25mmx1.4u

Method V8260C

Initial Cal. Method N2B5926

Date: 9/12/15

pH paper 216814

Standard Data

Lot #	Description	Conc.
1005279-6	(50) A	100 ppm
1005279-11	(21) B	100 ppm
1005279-33	(6) C	100 ppm
1005279-20	(4) OCM	1000 ppm
1005279-2	(5) OGH	1000 ppm
1005279-33	FS	200/50 ppm

Standard Data

Lot #	Description	Conc.
1005279-40	(1) BGA A	100 ppm
1005279-19	(17) BGA B	100 ppm
1005279-21	(4) BGA C	100 ppm
1005279-16	(5) BGA OCM	1000 ppm
1005279-40	(5) BGA OGH	1000 ppm
1005279-27	(9) BGA MIX	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: HS **Date:** 9/14/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134394	BFB											OK	8:49am	
	134395	CCS926-20											OK	20uL ABC Conc OGH/1000uL	
	134396	IB											✓		
	134397	MB								+	W		OK		
	134398	BS									W		OK	50uL ABC Conc OGH 1000/100m	
	134399	IB									W		✓		
	134400	JC3254-16	90889 SL2	W	3		S		1x		W		OK		✓
	134401	JC3254-17	✓	W	3		S		1x		W		OK	SL2 Ebnz,tol	✓
	134402	JC3254-18	✓	W	3		S		1x		W		OK	SL2 Ebnz,tol	✓
	134403	JC3254-19	✓	W B	2		S		1x		W		OK		✓
	134404	JC3254-16 MS	✓				S		1x		W		NOT USED	25uL BGA ABC Conc OGH 1000	✓
	134405	JC3254-16 MSD	✓				S		1x		W		NOT USED	>50mL smpl	✓
	134406	IB									W		✓		
	134407	JC125-21	~~90889~~ 90710 ~~SL3~~ SL2	W B	~~BLK~~ 3		S		1x	+	W		OK	90710 TCLOT	✓
R	134408	JC3254-3	SL2	W	1		S		1x		W		OK		✓
	134409	JC3254-9	SL3	W	4		S		1x		W		RR	RR 100x/1000x	✓
	134410	JC3254-10	✓	W	2		S		1x		W		RR	RR 1x/10	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5989

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 (60mx0.25mmx1.4um)

Method V8260C

Initial Cal. Method M2B5926

Date: 9/12/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 9/14/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134411	JC3254-11	90889 SL2	W	1		5		1x		✓		RR	RRIxclu tebanz +101	✓
	134412	JC3254-12	✓	W	1		5		1x		✓		RR	RRIxclu	✓
	134413	JC3254-13	✓	W	2		5		1x		✓		RR	RRIx	✓
	134414	JC3254-14	✓	W	1		5		1x		✓		RR	RRIx	✓
	134415	JC3254-15	✓	W	2		5		1x		✓		RR	RRIx	✓
		JC3277-14	90954 MDUO	W	5		10/50		5x				Not run		
		JC3277-1	✓	W	5		10/50		1x				Not run		
		JC3277-1	✓	W	5		10/50		5x				Not run		
	134416	JC3431-2	90983 SL	W	4		5		1x		✓		RR	RRIx	✓
	134417	JC3431-1	✓	W	18		5		1x		✓		RR	RRIx 8:31pm	✓
														BKH 9/12/15	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5989/V2B5990

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: TB624 (60mx0.25mmx1.4um)

Method V8260C

Initial Cal. Method V2B5926

Date: 9/14/15

pHpaper216814

Standard Data

Lot #	Description	Conc.
V015279-6	(52) A	100 ppm
V015279-11	(21) B	100 ppm
V015279-33	(6) C	100 ppm
V015279-20	(9) OCTO	1000 ppm
V015279-2	(5) EtOH	10000 ppm
V015279-23	B	2000 ppm

Standard Data

Lot #	Description	Conc.
V015279-40	(11) ~~DCE~~ A	100 ppm
V015279-19	(9) ~~EX~~ B	100 ppm
V015279-44	(1) ~~DCE~~ C	100 ppm
V015279-16	(1) ~~DCE~~ OCTO	1000 ppm
V015279-41	(4) ~~DCE~~ EtOH	10000 ppm
V015279-27	(7) ~~DCE~~ ~~HOAc~~	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/9/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134419	TB				1							/	8/19/15	
	134418	BPB				2							OK	~~#03371~~ 8:55am 20ml ABC OCTO EtOH/100mL #03371	
	134421	CCS8260B				3							OK		
	134422	TB				4							/		
	134423	MB2				5				+	✓	✓	OK		
	134424	JC3254-16MS	90859 SL2	W	5	6	5		1x		✓	✓	OK	5mL EX+ABC OCTO EtOH HOAc 05OMCSMP1	✓
	134425	JC3254-16MSD	✓	W	7	7	5		1x		✓	✓	OK		✓
	134426	TB				8					✓	✓	/		
	134427	MB				9				+	✓	✓	OK		
	134428	BS				10					✓	✓	OK	5mL EX+ABC OCTO EtOH HOAc 100mL	
FD	134429	JC3277-8	90854 MTDUO	W	6	11	0.5/50		100x		✓	✓	OK	+2B134367	✓
FD	134430	JC3277-9	✓	W	5	12	10/50		5x		✓	✓	OK	+2B	✓
FD	134431	JC3277-12	✓	W	5	13	10/50		5x		✓	✓	OK	+2B134354	✓
R	134432	JC2748-3	90852 APPACF	W	21	14	5		1x		✓	✓	OK	5-core for cyclohexanone only	✓
FD	134433	JC3538-8	90810 TCL20+	W	1	15	5/50		10x	+	✓	✓	OK		✓
FD	134434	JC3538-6	✓	W	1	16	5		1x	+	✓	✓	OK	+3A144673	✓
	134435	JC3538-8MS	✓	W	1	17	5/50		10x		✓	✓	OK	5mL EX+ABC OCTO EtOH HOAc 100mL	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5990

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: TG624 (60mx0.25mmx1.4um)

Method: VB260C

Initial Cal. Method: V2B5920

Date: 9/14/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134436	JC3538 mod	91040 recset	W	1		5/50		10x		✓	✓	OK		✓
	134437	JB									✓	✓	/		
R	134438	JC3254-10	90889 SC3	W	1		5		1x		✓	✓	OK		✓
R	134439	JC3254-13	SC2	W	1		5		1x		✓	✓	OK		✓
4D	134440	JC3538-9	9040 recset	W	1		5/50		10x	+	✓	✓	OK		✓
4D	134441	JC3538-11	✓	W	1		10/50		5x	+	✓	✓	RR OK	CCMit	✓
4D	134442	JC3538-4	✓	W	2		5		1x		✓	✓	OK	MBalTRE T3A114671 8:13pm	✓
														BK 9/14/15	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5992

Print Analyst Name: Budget Kelly

Analyst Signature: Budget Kelly

Columns: ZB624 60M X 0.25mm x 1.4um

Method V8260C

Initial Cal. Method M2B5926

Date: 9/15/15 (B 9/15)

pH paper 216814

Standard Data

Lot #	Description	Conc.
VOIS-2179-6	(52) A	100ppm
VOIS-2179-11	(21) B	100ppm
VOIS-2179-18	(1) C	100ppm
VOIS-2179-20	(9) Acid	1000ppm
VOIS2179-2	(5) EtOH	10000ppm
VOIS-2179-22	JS	250/2500ppm

Standard Data

Lot #	Description	Conc.
VOIS-2179-40	(10) Ext A	100ppm
VOIS-2179-19	(21) Ext B	100ppm
VOIS-2179-44	(10) Ext C	100ppm
VOIS-2179-53	(2) Ext ~~EtOH~~ EH 9/15 Acid	1000ppm
VOIS-2179-41	(4) Ext EtOH	10000ppm
VOIS-2179-27(8)	Ext Hex	1000ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2B134467	BPB				1							OK	8:23 am	
	134468	CCS 2620				2							OK	#18, 63, 71 200ug PBC acid methanol 1ml 100ml	
	134469	JB				3									
	134470	MB				4				+	✓	✓	OK		
	134471	BS				5					✓		OK	50ul EXT ABC acid EtOH methanol 100ml	
F/D	134472	JC3679-4	91118 TCL20+	GW	10	6	10/50		5x		✓	✓	OK	+2B134461	✓
4/D	134473	JC3535-5	91040 TCL20+	W	1	7	5		1x	+	✓	✓	OK/D	+3A144672	✓
F/D	134474	JC3679-12	91118 TCL20+	GW	11	8	10/50		5x		✓	✓	OK	+2B134466	✓
R	134475	JC2526-5	90650 NJPTCL11+	W	5	9	5		1x		✓	✓	OK		✓
F/D	134476	JC3679-5	91118 TCL20+	GW	14	10	10/50		5x		✓	✓	OK	+2B134462	✓
R	134477	JC3254-28	90889 TCL SL3, EBN2	GW	2	11	0.25/50		200x		✓	✓	OK		✓
R	134478	JC3254-11	90889 SL2	GW	2	12	5		1x		✓	✓	OK		✓
R	134479	JC3363-1	90976 + PPTCL42+	IN	1	13	5		1x		✓	✓	OK	MPXYL, NAP, OXYL	✓
4/D	134480	JC3254-20	90889 SL3	GW	3	14	2/50		25x		✓		OK ~~OK~~	+2B134459	✓
F/D	134481	JC2526-5	90650 NJPTCL11+	W	2	15	2/50		25x		✓		Not used	NB 9/9 @ Headspace bottle	✓
R	134482	JC3272-19	90944 TCL11	GW	2	16	5		1x		✓	✓	OK		✓
R	134483	JC3272-22	✓	GW	2	17	5		1x		✓	✓	OK		✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5992

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 60MX0.25mm x 1.4um

Method VB260C

Initial Cal. Method M2B5926

Date: 9/15/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B34484	JC3256-5ms	90650 NSPTCLH	W	4	18	5		1x		W		NOT USED	25ul BCABCCCDEFOPHexo	✓
	134485	JC3256-5msd	✓	W	6	19	5		1x		W		NOT USED	↳ 50mL Smpl	✓
	134486	JC3254-20ms 8/19/15	90889 SL3	W	3	20	2/50		25x		W		OK	50ul BCABCCCDEFOPHHex	✓
	134487	JC3254-20msd	✓	W	3	21	2/50		25x		W		OK	↳ 100mL	✓
	134488	JB				22					W		✓		EH 9/15
R	134489	JC3272-23	90944 TCL11	GW	2	23	5		1x		W		OK		✓
R	134490	JC3596-1	91079 SL	WW	6	24	5		1x		W		OK	7:43pm	✓

BKalistis

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

pH paper 216814

Batch ID: V2B5994

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: RtX624(60mx0.25mmx1.4um)

Method: US2600

Initial Cal. Method: M2B5926

Date: 9/16/15

Standard Data

Lot #	Description	Conc.
VOIS-2179-6	(52) A	100ppm
VOIS-2179-11	(21) B	100ppm
VOIS-2179-48	(1) C	100ppm
VOIS-2179-20	(9) Acid	1000 ppm
VOIS-2179-2	(6) EtOH	10000 ppm
VOIS-2179-54	IS	100ppm

Standard Data

Lot #	Description	Conc.
VOIS-2179-40	Ext A	100 ppm
VOIS-2179-95	Ext B	100 ppm
VOIS-2179-44	(9) Ext C	100 ppm
VOIS-2179-53	(1) Ext Acid	1000 ppm
VOIS-2179-41	(4) Ext EtOH	10000 ppm
VOIS-2179-50	(3) Ext Hex	100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134516	BFB				1							OK	8:25am	
	134517	CCS92020				2							OK	#18,63,71↑ 2000 ABC Acid Spike/1000 mL	
	134518	IB				3							/		
	134519	MB				4				+	✓		OK		
	134520	BS				5					✓		OK	50ul ABC Acid Spike/1 Heck 100mL	
F/D	134521	JC36069-9	91115 TCL20+	O	1	6	19/50		5x		✓		100% used		✓
F/D	134522	JC36069-4	✓	W	2	7	1/50		50x	+	✓		OK		✓
R	134523	JC3272-11	90944 TCL11	GW	2	8	20/50		2.5x		✓		OK		✓
R	134524	JC3272-13	✓	GW	1	9	5		1x		✓	✓	OK		✓
R	134525	JC3272-14	✓	GW	1	10	5		1x		✓	✓	OK		✓
R	134526	JC3272-12	✓	GW	1	11	5		1x		✓	✓	OK		✓
R	134527	JC3272-12	✓	GW	1	12	5/50		10x		✓	✓	OK		✓
R	134528	JC3780-1A	91205 MTBE MEK ACE	IN	15	13	5/50		10x		✓	✓	OK	dilution due to IT	✓
F/D	134529	JC3679-9	91118 TCL20+	GW	1	14	10/50		5x		✓		OK	+2B134503	✓
R	134530	~~JC3012-4~~ ~~JC3254-9~~ BK 9/16	~~90889~~ ~~SL3~~	GW	1 BK 9/16	15	~~0.05~~ 5/50		~~100x~~ 1x BK 9/16	+	✓		OK	96779	(5)
R	134531	~~JC3012-1~~ ~~JC3254-9~~	✓	GW	2 9/16	16	~~0.005~~ 5/50		~~1000x~~ 1x BK 9/16	+	✓		OK	TCL11+ ✓	✓
	134532	~~JC3012-2~~ IB			2	17	2/50		25x	+	✓		OK	✓	✓

EH 9/16

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
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Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5994

Print Analyst Name: Brad Spotwell

Analyst Signature: Brad Spotwell

Date: 9/16/15

Columns: ZB624CEDM x 0.25mm x 1.4um

Method VB260C

Initial Cal. Method M2B5926

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134533	JC3669-14MS	91115 TCL20T	W	2	18	1/50		50x		✓	✓	OK	25ml extract	✓
	134534	JC30069-14MSD	✓	W	2		1/50		50x		✓	✓	OK		
	134535	IB				19					✓	✓			✓
R	134536	JC3254-14	90889 SL2	GW	2	20	5		1x		✓	✓	OK		✓
R	134537	JC3254-15	✓	GW	1	21	5		1x		✓	✓	OK		✓
R	134538	JC3254-12	✓	GW	2	22	5		1x		✓	✓	OK		✓
	134539	JC3419-1	91006 TCE VC	GW	2	23	5		1x		✓	✓	OK		✓
	134540	JC3419-2	✓	GW	2	24	5		1x		✓	✓	OK	5:23pm	✓
	134541	JC3419-3	✓	GW	2	25	5		1x				not run		

Brad Wells

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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7.8.7

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5996

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 / 60m x 0.25mm x 1.4u

Method: VSTeeOC

Initial Cal. Method: M2B5926

Date: 9/17/15

pH per ~ 216814

Standard Data

Lot #	Description	Conc.
1015279-6	(57) A	100 ppm
1015279-132	(64) B	100 ppm
1015279-48	(3) C	100 ppm
1015279-20	(9) OCD	1000 ppm
1015279-2	(11) GOH	10000 ppm
1015279-54		

Standard Data

Lot #	Description	Conc.
1015279-40	(3) EGA A	100 ppm
1015279-55	EGA B	100 ppm
1015279-44	(6) EGA C	100 ppm
1015279-53	(1) EGA OCD	1000 ppm
1015279-41	(4) EGA GOH	10000 ppm
1015279-37	(4) EGA HVO	10000 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134546	IB											/		
	134547	BFB											NOT USED	8:47am	
	134548	CCS926-20											NG	cmpt SOK	
	134549	BFB				1							OK		
	134550	CCS926-20				2							OK	10:08am	
	134551	IB				3							/	#15, 63, 71 ↑ 20ul C decarbonation / 100mL	
	134552	MB				4				HW		W	OK		
	134553	BS				5					W		OK	#71 ↑ 50ul C decarbonation / 100mL	
	134554	BFB				6					W		/		
	134555	JC3795-1	91224 TCL20+	W	2	7	5		1x	H	W	W	OK		✓
	134556	JC3795-3	✓	W	2	8	5		1x	H	W	W	OK		✓
	134557	JC3795-6	✓	W	2	9	2/50		25x		W	W	OK/R	01DRB	✓
	134558	JC3795-7	✓	W	2	10	5/50		10x	H	W	W	OK/R		✓
	134559	JC3795-7	✓	W	1	11	0.5/50		100x		W	W	OK		✓
R	134560	JC3254-9	91059 SC3	W	5	12	0.5/50		100x		W	W	OK/R		✓
R	134561	JC3254-9	✓	W	5	13	50ul/50mL		1000x		W	W	OK		✓
	134562	JC3795-7ms	91224 TCL20+	W	2	14	5/50		10x		W	W	OK	50ul C decarbonation / 100mL	✓

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2B5996

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 60m x 0.25mm x 1.4um

Method V8260C

Initial Cal. Method M2B5996

Date: 9/17/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 9/19/2015

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2B134563	5C3295-7MSd	91204 TCL601	W	2	15	5/50		100		✓	✓	OK		✓
RD	134564	5C3415-5	91006 TCL601,T	W	1	16	5/50		10x		✓	✓	OK		✓
	134565	~~5C3419-3~~ 113	117 ✓	W	2	17	5		1x		W		✓		
	134566	5C3272-47 ~~5C3698-1~~	91177-2011 ~~MDV6~~	W	7	18	25/50		20x ~~1x~~		✓	✓	OK	+2C132704	✓
	134567	BK9170 5C3~~3~~3698-2	✓	W	7	19	5		1x		✓	✓	12K	RRIXC10	✓
	134568	~~5C3~~6098-3	✓	W	6	20	5		1x		✓	✓	OK		✓
	134569	BK9170 5C3~~9~~3698-4	✓	W	6	21	5		1x		✓	✓	OK		✓
	134570	5C3415-6	91006 TCL601,T	W	1	22	5		1x	+	✓	✓	OK ~~X~~	RID5X	✓
	134571	5C3415-8	✓	W	2	23	5		1x	+	✓	✓	OK		✓
	134572	5C3415-7	✓	W	2	24	5		1x	+	✓	✓	OK		✓
	134573	5C3415-5	✓	W	1	25	5		1x	+	✓	✓	OK ~~X~~	+2B134564 9:43pm	✓
														BK 9/17/15	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2D6180

Print Analyst Name: Bridget Kelley

Analyst Signature: Bridget Kelley

Columns: ZB624 (60mx0.25mmx1.4

Method V8260C

Initial Cal. Method M2D6180

Date: 8/14/15

Standard Data

Lot #	Description	Conc.
V0152114-93	(42) A	100 ppm
V0152114-72	(67) B	100 ppm
V0152114-120	(8) C	100 ppm
V0152114-101	(15) D	100 ppm
V0152114-75	(4) E	10000 ppm
V0152114-114	(3)	2000 ppm

Standard Data

Lot #	Description	Conc.
V0152114-93	(12) A	100 ppm
V0152114-120	(4) B	100 ppm
V0152114-111	(5) C	100 ppm
V0152114-107	(2) D	100 ppm
V0152114-116	(4) E	10000 ppm
V0152114-114	(3)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 8/17/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
BK 8/14	SB2D147242	BFB					5						ok	4.0ppm	
	147243	JCC6180-0.2	8260C initial calibration	W			5						ok	2ul ABC acid EtOH 1100ml	
	147244	JCC6180-0.5	✓	W			5						ok	BK 8/17 50 5ul ABC acid EtOH 1 1000ml	
	147245	JCC6180-1	✓	W			5						ok	1ul ABC acid EtOH 1100ml	
	147246	JCC6180-2	✓	W			5						ok	2ul ABC acid EtOH 1100ml	
	147247	JCC6180-5	✓	W			5						ok	5ul ABC acid EtOH 1100ml	
	147248	JCC6180-10	✓	W			5						ok	10ul ABC acid EtOH 1100ml	
	147249	JCC6180-20	✓	W			5						ok	20ul ABC acid EtOH 1100ml	
	147250	JCC6180-50	✓	W			5						ok	50ul ABC acid EtOH 1100ml	
	147251	JCC6180-100	✓	W			5						ok	100ul ABC acid EtOH 1100ml	
	147252	JCC6180-200	✓	W			5						ok	200ul ABC acid EtOH 1100ml	
	147253	JB											—		
	147254	JB											—		
	147255	JCU6180-50	✓	W			5						ok	50ul ABC acid EtOH Hex 1100ml	
	147256	JB											—		

BK 8/14/15

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
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Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2D6208

Print Analyst Name: Bridget Kelley

Analyst Signature: Bridget Kelley

Columns: ZB624 (60m x 0.25mm id. 4um)

Method: VB2600C

Initial Cal. Method: M2D6180

Date: 9/9/15

pH paper 214816

Standard Data

Lot #	Description	Conc.
100279-6	(14) A	100 ppm
100279-11	(8) B	100 ppm
100279-25	(9) C	100 ppm
100279-20	(15) CCl4	1000 ppm
100279-2	(3) EtOH	10 ppm
100279-24	(5) TS	50 (1000) ppm

Standard Data

Lot #	Description	Conc.
100279-1	(18) BX+ A	100 ppm
100279-19	(13) BX+ B	100 ppm
100279-21	(6) BX+ C	100 ppm
100279-16	(5) BX+ CCl4	1000 ppm
100214-116	(5) BX+ EtOH	1000 ppm
100279-15	(8) BX+ TS	(80) ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 9/10/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2D147881	BFB				1							ok	5.11am	
	147882	CCV0180-20				2							No	cmpds ↓	
	147883	CCV0180-20				3					✓		ok	>20% ABC acetone & EtOH 100ppm #7 ↑	
	147884	IB				4					✓		ok		
	147885	MB				5					✓		ok		
	147886	BS				6					✓		ok	20% ABC acetone & EtOH 100ppm	
	147887	IB				7					✓		ok		
R	147888	JC2840-13	90617 PAH/PMB	W	1	8	5		1x		✓		ok		✓
	~~147889~~	~~JC3199-1~~	~~90577 TCLP~~	~~W~~	~~5~~	~~9~~	~~5~~		~~1x~~					BK 9/9 ②	
	~~147890~~	~~JC3199-2~~	✓	~~W~~	~~6~~	~~10~~	~~5~~		~~1x~~						
	147889	JC3254-6 ~~JC3200-6~~	90889 SC2	W	2 ~~4~~	9	5		1x		✓		ok		✓
	147890	JC3254-7 ~~JC3200-7~~	✓	W	~~4~~	10	5		1x		✓		ok		✓
	147891	JC3254-8	✓	W		11	5		1x		✓		ok		✓
RD	147892	JC2840-2	90617 PAH/PMB	W	2	12	5/50		10x		✓		ok	+ 2D147858	✓
RD	147893	JC2840-5	✓	W	2	13	0.5/50		100x		✓		ok	+2D147869	✓
RD	147894	JC2840-7	✓	W	1	14	5/50		10x		✓		ok	+2D147875	✓
	147895	JC3254-6 ms BK 9/9 ②	90889 SC2	W	5	15	5		1x		✓		ok	20% ABC acetone & EtOH 100ppm	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V2D6208

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: ZB624 (60m x 0.25mm x 1.4um)

Method V8260C

Initial Cal. Method M2D6180

Date: 9/9/15

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 9/10/15

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	2D147896	IB									W		9/10		✓
	147897	JC3254-2dep	90889 SL2	W	2		5		1X		W		ok		✓
	147898	JC33393A	90938 TCW0	S	9		5		1X		W		ok	temp	(5)
	147899	JC3339-4	✓	S	1		5		1X		W		ok		✓
R	147900	JC2730-3	90541 NSPCCIH	W	1		5		1X		W		ok		✓
	147901	JB85072C-14D	97506	A			5		1X		W		ok		✓
	147902	JB85072C-14E	✓	A			5		1X		W		ok		✓
	147903	JC3254-1	90889 SL2	W	1		5		1X		W		ok	Sicolpm	✓

BK 9/9/15

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Form: OR001-9
Rev. Date: 2/14/2007