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12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L861822

For: CH2MHILL - Montgomery, AL
MGM DEAP Soil Vapro

L861822

Lab SampleID.	Client ID
L861822-01	AMS-01-0916
L861822-02	AMS-02-0916
L861822-03	AMS-03-0916
L861822-04	AMS-04-0916
L861822-05	AMS-FD-0916
L861822-06	SV-TMPZ1-27
L861822-07	SV-TMPZ1-08
L861822-08	VIMS-10-0916
L861822-09	SV-MW12-22
L861822-10	SV-MW12-08
L861822-11	SV-FD-0916
L861822-12	VIMS-50-0916
L861822-13	SV-MW08-08
L861822-14	SV-MW08-30
L861822-15	SV-MW02-35
L861822-16	AMS-MW02-08

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Quality Control Summary
SDG: L861822

For: CH2MHILL - Montgomery, AL
Project: MGM DEAP Soil Vapro
October 11, 2016

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Volatile Organic Compounds by TO-15 by Method TO-15

Laboratory Control Sample

Samples L861822-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, and -16 were analyzed in analytical batch WG911990. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L861822-06, -08, -09, -12, -13, -15, and -16 were analyzed in analytical batch WG912392. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG911990 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Precision for batch WG912392 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument AIRMS2 was calibrated on 9/26/2016. The initial calibration and continuing calibration verification standards were within method limits.

Internal Standards

The internal standard responses and retention times were within method limits for all samples and quality control samples.

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2016.10.11 16:22:44 -05'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

ANALYTICAL REPORT

September 30, 2016

CH2MHILL - Montgomery, AL

Sample Delivery Group:	L861822
Samples Received:	09/24/2016
Project Number:	666378.01 SG
Description:	MGM DEAP Soil Vapro

Report To:

Ms. Kaye Walker
4121 Carmichael Rd, Suite 400
Montgomery, AL 36106

Entire Report Reviewed By:

Craig Cothron
Technical Service Representative

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.esclabsciences.com

AMS-01-0916 L861822-01 Air

Collected by: Jestina Hansen
Collected date/time: 09/19/16 16:07
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 09:59	09/28/16 09:59	MBF

AMS-02-0916 L861822-02 Air

Collected by: Jestina Hansen
Collected date/time: 09/19/16 17:07
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 10:44	09/28/16 10:44	MBF

AMS-03-0916 L861822-03 Air

Collected by: Jestina Hansen
Collected date/time: 09/20/16 12:35
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 11:29	09/28/16 11:29	MBF

AMS-04-0916 L861822-04 Air

Collected by: Jestina Hansen
Collected date/time: 09/20/16 13:54
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 12:14	09/28/16 12:14	MBF

AMS-FD-0916 L861822-05 Air

Collected by: Jestina Hansen
Collected date/time: 09/20/16 13:54
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 12:59	09/28/16 12:59	MBF

SV-TMPZ1-27 L861822-06 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 11:47
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 13:44	09/28/16 13:44	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	20	09/29/16 15:13	09/29/16 15:13	MBF

SV-TMPZ1-08 L861822-07 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 12:19
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 14:30	09/28/16 14:30	MBF

VIMS-10-0916 L861822-08 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 16:13
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 15:16	09/28/16 15:16	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	100	09/29/16 17:24	09/29/16 17:24	MBF

SV-MW12-22 L861822-09 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 17:28
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 16:01	09/28/16 16:01	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	2	09/29/16 13:44	09/29/16 13:44	MBF

SV-MW12-08 L861822-10 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 18:07
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 16:46	09/28/16 16:46	MBF

SV-FD-0916 L861822-11 Air

Collected by: Jestina Hansen
Collected date/time: 09/21/16 17:28
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 17:32	09/28/16 17:32	MBF

VIMS-50-0916 L861822-12 Air

Collected by: Jestina Hansen
Collected date/time: 09/22/16 09:20
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	8	09/28/16 18:15	09/28/16 18:15	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	800	09/29/16 18:06	09/29/16 18:06	MBF

SV-MW08-08 L861822-13 Air

Collected by: Jestina Hansen
Collected date/time: 09/22/16 12:25
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 19:01	09/28/16 19:01	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	25	09/29/16 14:29	09/29/16 14:29	MBF

SV-MW08-30 L861822-14 Air

Collected by: Jestina Hansen
Collected date/time: 09/22/16 13:59
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 19:47	09/28/16 19:47	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	25	09/29/16 15:57	09/29/16 15:57	MBF

SV-MW02-35 L861822-15 Air

Collected by: Jestina Hansen
Collected date/time: 09/22/16 16:35
Received date/time: 09/24/16 09:00

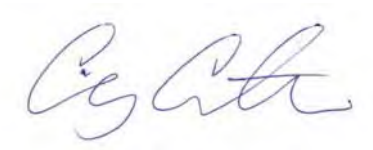
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 20:32	09/28/16 20:32	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	80	09/29/16 18:49	09/29/16 18:49	MBF

AMS-MW02-08 L861822-16 Air

Collected by: Jestina Hansen
Collected date/time: 09/23/16 07:03
Received date/time: 09/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG911990	2	09/28/16 21:16	09/28/16 21:16	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG912392	25	09/29/16 16:41	09/29/16 16:41	MBF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Craig Cothron
Technical Service Representative

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	2.09	14.2		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	0.925	6.28		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	1.24	6.67		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	1.43	9.68		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	1.38	9.37		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	1.35	9.18		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	4.00	27.2	183	1240		20	WG912392
Trichloroethylene	79-01-6	131	0.400	2.14	1.87	10.0		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*85.5*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	0.514	3.49		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.0*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	22.4	88.6		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	0.643	2.55		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	14.7	99.6		2	WG911990
Trichloroethylene	79-01-6	131	20.0	107	2450	13100		100	WG912392
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.9*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	0.642	4.36		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	7.90	42.3		2	WG912392
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.6*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.9*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	3.43	23.3		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	0.665	3.56		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	1.43	5.67		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	0.943	6.41		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	12.1	64.6		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.0*				WG911990

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	1.60	6.34	220	873		8	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	1.60	6.34	4.82	19.1		8	WG911990
Tetrachloroethylene	127-18-4	166	1.60	10.9	42.2	286		8	WG911990
Trichloroethylene	79-01-6	131	160	857	18400	98800		800	WG912392
Vinyl chloride	75-01-4	62.50	1.60	4.09	ND	ND		8	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*92.0*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	72.6	493		2	WG911990
Trichloroethylene	79-01-6	131	5.00	26.8	62.7	336		25	WG912392
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.8*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	0.400	2.72	53.1	361		2	WG911990
Trichloroethylene	79-01-6	131	0.400	2.14	5.19	27.8		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*87.9*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	16.0	109	778	5280		80	WG912392
Trichloroethylene	79-01-6	131	0.400	2.14	6.44	34.5		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.2*				WG912392

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG911990
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG911990
Tetrachloroethylene	127-18-4	166	5.00	33.9	727	4940		25	WG912392
Trichloroethylene	79-01-6	131	0.400	2.14	0.599	3.21		2	WG911990
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG911990
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.8*				WG912392

Method Blank (MB)

(MB) R3166908-3 09/28/16 09:10

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
Vinyl chloride	U		0.0457	0.200
(S) 1,4-Bromofluorobenzene	*93.1*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3166908-1 09/28/16 07:38 • (LCSD) R3166908-2 09/28/16 08:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	4.31	4.24	115	113	70.0-130			1.46	25
trans-1,2-Dichloroethene	3.75	4.13	4.10	110	109	70.0-130			0.700	25
cis-1,2-Dichloroethene	3.75	4.51	4.45	120	119	70.0-130			1.34	25
Trichloroethylene	3.75	4.19	4.19	112	112	70.0-130			0.140	25
Tetrachloroethylene	3.75	4.20	4.11	112	110	70.0-130			2.22	25
(S) 1,4-Bromofluorobenzene				*104*	*103*	*60.0-140*				

Method Blank (MB)

(MB) R3167170-3 09/29/16 09:39

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
(S) 1,4-Bromofluorobenzene	*88.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3167170-1 09/29/16 08:07 • (LCSD) R3167170-2 09/29/16 08:52

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethylene	3.75	4.11	4.10	109	109	70.0-130			0.0900	25
Tetrachloroethylene	3.75	4.45	4.48	119	119	70.0-130			0.740	25
(S) 1,4-Bromofluorobenzene				*98.4*	*98.7*	*60.0-140*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

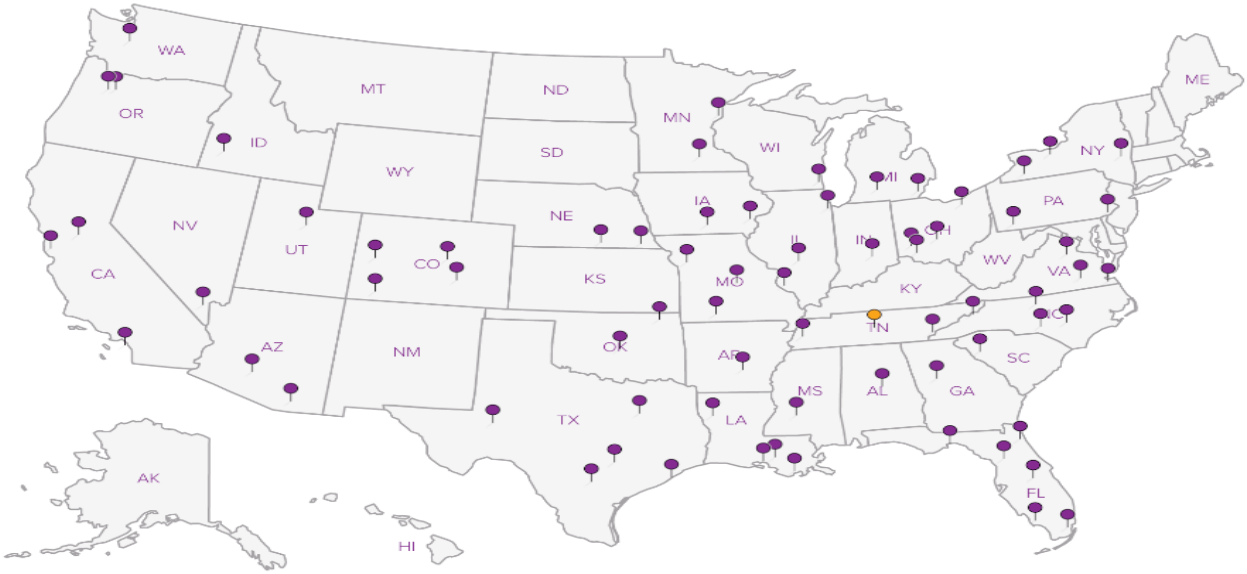
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ESC Lab Sciences
12065 Lebanon Rd.
Mt. Juliet, TN 37122
800-767-5859

CHAIN OF CUSTODY RECORD

CH2M
4121 Carmichael Dr., Suite 400
Montgomery, AL 36106
(334) 215-9058
FAX (334) 273-7532

Project/Contact Information

Project #	666378.01.SG
Project Name	Montgomery DEAP
Report Copy to	Kaye Walker/MGM
Company Name/Contact	CH2M HILL/Glen Davis/MGM

Requested Analysis: VOC* - TO-15

THIS AREA FOR LAB USE ONLY

Lab #	Pg / of
Lab PM	Custody Review
Log In	LIMS Verification
pH	Cust Seals Y N Ice
QC Level 1 2 <u>3</u>	
Cooler Temperature	AMB°

Date	Time	Comp	Grab	Water	Soil	Air	Client Sample ID (9 Characters Max)	LAB QC	Number of Containers	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Alternate Description	Lab ID
9/19/16	1607		X			X	AMS-01-0916		1	2239	1451	-29.91	-3.57	1L	861822-01	
9/19/16	1707		X			X	AMS-02-0916		1	1221	874	-28.38	-3.95	1L	02	
9/20/16	1235		X			X	AMS-03-0916		1	1315	1060	-29.74	-2.24	1L	03	
9/20/16	1354		X			X	AMS-04-0916		1	1284	676	-30.04	-2.73	1L	04	
9/20/16	1354		X			X	AMS-FD-0916		1	1507	676	-29.82	-2.76	1L	05	
9/21/16	1147		X			X	SV-TMPZ1-27		1	1492	1424	-30.00	-3.77	1L	06	
9/21/16	1219		X			X	SV-TMPZ1-08		1	1993	1344	-29.89	-4.43	1L	07	
9/21/16	1613		X			X	VIMS-10-0916		1	732	1477	-29.96	-3.47	1L	08	
9/21/16	1728		X			X	SV-MW12-22		1	1523	865 A	-30.23	-2.86	1L	09	
9/21/16	1807		X			X	SV-MW12-08		1	2031	770	-29.56	-2.13	1L	10	
9/21/16	1728		X			X	SV-FD-0916		1	954	865 A	-30.11	-2.81	1L	11	
9/22/16	0920		X			X	VIMS-50-0916		1	923	785	-29.63	-3.70	1L	12	
9/22/16	1225		X			X	SV-MW?-08		1	1293	880	-29.96	-3.55	1L	13	

Sampled By: Jestina Hansen	Relinquished By: 1400 9/23/16
Received By:	Relinquished By:
Received By:	Date/Time: 9/24/16 0900 ~~2900~~ 0839

Special Instructions: EPA DQO Level III data package and <u>14 day TAT</u> are required.
*Short List - PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride

File: DEAP_COC_Sept2016_P1_VI.xlsx

FedEx –

7066 8113 5347	6903 4763 7120	6903 4763 7119
7061 6676 0925	6903 4763 7093	
6903 4763 7108	6903 463 7130	

16 + 9 EMPTY + 21[illegible]

Page 2 of 2

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CHAIN OF CUSTODY RECORD

CH2M
4121 Carmichael Dr., Suite 400
Montgomery, AL 36106
(334) 215-9058
FAX (334) 273-7532

Project/Contact Information	
Project #	666378.01.SG
Project Name	Montgomery DEAP
Report Copy to	Kaye Walker/MGM
Company Name/Contact	CH2M HILL/Glen Davis/MGM

Requested Analysis: VOC* - TO-15

THIS AREA FOR LAB USE ONLY		
Lab #	Pg	of
Lab PM	Custody Review	
Log In	LIMS Verification	
pH	Cust Seals Y N Ice	
QC Level 1 2 3		
Cooler Temperature		

Sampling Date	Sampling Time	Type: Comp	Type: Grab	Matrix: Water	Matrix: Soil	Matrix: Air	Client Sample ID (9 Characters Max)	LAB QC	Number of Containers	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Alternate Description	Lab ID
9/22/16	1359		X			X	SV-MW08-30		1	1561	1365	-29.98	-3.88	1L	861871-14	
9/22/16	1635		X			X	SV-MW02-35		1	1815	1085	-29.98	-3.38	1L	15	
9/23/16	0703		X			X	AMS-MW02-08		1	2292	890	-30.08	-1.92	1L	16	
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		

Sampled By: Jestina Hansen	Relinquished By: [signature] 9/23/16 1400
Received By:	Relinquished By:
Received By: [signature]	Date/Time: 9/24/16 0900

Special Instructions: EPA DQO Level III data package and 14 day TAT are required.
*Short List - PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride

0900

File: DEAP_COC_Sept2016_P1_VI.xlsx

16 + 9 EMPTY + 21 ST

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client: CH2M Chromium		SDG#	961322
Cooler Received/Opened On: 9/24/16		Temperature Upon Receipt:	AMBIENT °c
Received By: JASON ROMER			
Signature:			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)			

Volatile Organic Compounds by TO-15 by Method TO-15

ESC LAB SCIENCES
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12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L861822

Volatile Organic Compounds by TO-15 by Method TO-15
CH2MHILL - Montgomery, AL

Project: MGM DEAP Soil Vapro
Project No: 666378.01 SG

Login No: L861822

Lab SampleID.	Client ID
L861822-01	AMS-01-0916
L861822-02	AMS-02-0916
L861822-03	AMS-03-0916
L861822-04	AMS-04-0916
L861822-05	AMS-FD-0916
L861822-06	SV-TMPZ1-27
L861822-07	SV-TMPZ1-08
L861822-08	VIMS-10-0916
L861822-09	SV-MW12-22
L861822-10	SV-MW12-08
L861822-11	SV-FD-0916
L861822-12	VIMS-50-0916
L861822-13	SV-MW08-08
L861822-14	SV-MW08-30
L861822-15	SV-MW02-35
L861822-16	AMS-MW02-08

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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(800) 767-5859
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Est. 1970

Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG911990**
Analysis Date:	9/28/2016	Analyst:	564
Instrument ID:	AIRMS2		

Sample Numbers: L861822-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
AIRMS2	LCS WG911990	LCS WG911990	0928_02.D	9/28/2016	7:38 AM
AIRMS2	LCSD WG911990	LCSD WG911990	0928_03.D	9/28/2016	8:23 AM
AIRMS2	Blank WG911990	Blank WG911990	0928_04.D	9/28/2016	9:10 AM
AIRMS2	AMS-01-0916	L861822-01	0928_05.D	9/28/2016	9:59 AM
AIRMS2	AMS-02-0916	L861822-02	0928_06.D	9/28/2016	10:44 AM
AIRMS2	AMS-03-0916	L861822-03	0928_07.D	9/28/2016	11:29 AM
AIRMS2	AMS-04-0916	L861822-04	0928_08.D	9/28/2016	12:14 PM
AIRMS2	AMS-FD-0916	L861822-05	0928_09.D	9/28/2016	12:59 PM
AIRMS2	SV-TMPZ1-27	L861822-06	0928_10.D	9/28/2016	1:44 PM
AIRMS2	SV-TMPZ1-08	L861822-07	0928_11.D	9/28/2016	2:30 PM
AIRMS2	VIMS-10-0916	L861822-08	0928_12.D	9/28/2016	3:16 PM
AIRMS2	SV-MW12-22	L861822-09	0928_13.D	9/28/2016	4:01 PM
AIRMS2	SV-MW12-08	L861822-10	0928_14.D	9/28/2016	4:46 PM
AIRMS2	SV-FD-0916	L861822-11	0928_15.D	9/28/2016	5:32 PM
AIRMS2	VIMS-50-0916	L861822-12	0928_16.D	9/28/2016	6:15 PM
AIRMS2	SV-MW08-08	L861822-13	0928_17.D	9/28/2016	7:01 PM
AIRMS2	SV-MW08-30	L861822-14	0928_18.D	9/28/2016	7:47 PM
AIRMS2	SV-MW02-35	L861822-15	0928_19.D	9/28/2016	8:32 PM
AIRMS2	AMS-MW02-08	L861822-16	0928_20.D	9/28/2016	9:16 PM

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG912392**
Analysis Date:	9/29/2016	Analyst:	564
Instrument ID:	AIRMS2		
Sample Numbers:	L861822-06, -08, -09, -12, -13, -15, -16		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
AIRMS2	LCS WG912392	LCS WG912392	0929_02.D	9/29/2016	8:07 AM
AIRMS2	LCSD WG912392	LCSD WG912392	0929_03.D	9/29/2016	8:52 AM
AIRMS2	Blank WG912392	Blank WG912392	0929_04.D	9/29/2016	9:39 AM
AIRMS2	SV-MW12-22	L861822-09	0929_09.D	9/29/2016	1:44 PM
AIRMS2	SV-MW08-08	L861822-13	0929_10.D	9/29/2016	2:29 PM
AIRMS2	SV-TMPZ1-27	L861822-06	0929_11.D	9/29/2016	3:13 PM
AIRMS2	AMS-MW02-08	L861822-16	0929_13.D	9/29/2016	4:41 PM
AIRMS2	VIMS-10-0916	L861822-08	0929_14.D	9/29/2016	5:24 PM
AIRMS2	VIMS-50-0916	L861822-12	0929_15.D	9/29/2016	6:06 PM
AIRMS2	SV-MW02-35	L861822-15	0929_16.D	9/29/2016	6:49 PM

Parameters in bold text are reported in this SDG

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(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG911990**
Analysis Date:	9/28/2016	Analyst:	564
Instrument ID:	AIRMS2		

Sample Numbers: L861822-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16

Internal Standard Response and Retention Time Summary

File ID: ICAL AVG
Analyzed: 092616A

	BCM		DFB		CB	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	1224734	8.87	4963087	9.95	3653263	13.16
Upper Limit	1710000	9.37	6950000	10.45	5110000	13.66
Lower Limit	735000	8.37	2980000	9.45	2190000	12.66
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L861822-01	991646	8.87	4040432	9.95	3071919	13.16
L861822-02	1097618	8.87	4491549	9.95	3057069	13.16
L861822-03	1183028	8.87	4865280	9.95	3571250	13.16
L861822-04	1152623	8.87	4834800	9.95	3503384	13.16
L861822-05	1157604	8.87	4823444	9.95	3637581	13.16
L861822-06 2X	1056225	8.87	4394961	9.95	3168431	13.16
L861822-07 2X	1123887	8.87	4642063	9.95	3335503	13.16
L861822-08 2X	1129637	8.86	4642534	9.96	3178406	13.17
L861822-09	1027700	8.87	4269440	9.95	3057567	13.16
L861822-10	1066151	8.87	4405684	9.95	3285592	13.16
L861822-11	1083797	8.87	4438235	9.95	3274851	13.16
L861822-12	1113810	8.87	4517871	9.97	3182620	13.17
L861822-13 2X	1072366	8.87	4377965	9.95	2992362	13.16
L861822-14 2X	1118960	8.87	4637354	9.95	3301437	13.16
L861822-15	1135824	8.87	4717420	9.95	3195761	13.17
L861822-16	1133083	8.87	4663604	9.95	3173406	13.17
LCSD WG911990	1203089	8.87	4898171	9.95	3666960	13.17
LCS WG911990	1184056	8.87	4826793	9.95	3596934	13.16
BLANK WG911990	1199734	8.87	4871919	9.95	3534830	13.16

Legend:
BCM -- Bromochloromethane
DFB -- 1,4-Difluorobenzene
CB -- Chlorobenzene-d5

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG912392**
Analysis Date:	9/29/2016	Analyst:	564
Instrument ID:	AIRMS2		
Sample Numbers:	L861822-06, -08, -09, -12, -13, -15, -16		

Internal Standard Response and Retention Time Summary

File ID: ICAL AVG
Analyzed: 092616A

	BCM		DFB		CB	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	1224734	8.87	4963087	9.95	3653263	13.16
Upper Limit	1710000	9.37	6950000	10.45	5110000	13.66
Lower Limit	735000	8.37	2980000	9.45	2190000	12.66
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L861822-09 2X	966320	8.87	3829138	9.95	2746028	13.16
L861822-13 25X	971166	8.87	3850842	9.95	2788925	13.16
L861822-06	895729	8.87	3529676	9.95	2389235	13.17
L861822-14 25X	955603	8.86	3788966	9.95	2794509	13.16
L861822-16 25X	960956	8.86	3825128	9.95	2675080	13.16
L861822-08 100X	989288	8.86	3970086	9.95	2866881	13.16
L861822-12 800X	1003436	8.87	4053689	9.95	2855616	13.16
L861822-15	1025746	8.87	4122429	9.95	3033362	13.16
LCSD WG912392	1005350	8.87	4045709	9.95	2980779	13.16
LCS WG912392	1039309	8.87	4182360	9.95	3063428	13.16
BLANK WG912392	954141	8.87	3781680	9.95	2688705	13.16

Legend:
BCM -- Bromochloromethane
DFB -- 1,4-Difluorobenzene
CB -- Chlorobenzene-d5

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG911990**
Analysis Date:	9/28/2016	Analyst:	564
Instrument ID:	AIRMS2		
Sample Numbers:	L861822-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16		

Surrogate Summary

			BFB	
Laboratory Sample ID	Instrument	File ID	% Rec.	% Rec
L861822-01	AIRMS2	0928_05	4.14	103
L861822-02	AIRMS2	0928_06	4.17	104
L861822-03	AIRMS2	0928_07	4.05	101
L861822-04	AIRMS2	0928_08	4.06	102
L861822-05	AIRMS2	0928_09	4.19	105
L861822-06	AIRMS2	0928_10	4.22	105
L861822-07	AIRMS2	0928_11	3.92	98.0
L861822-08	AIRMS2	0928_12	4.23	106
L861822-09	AIRMS2	0928_13	3.79	94.6
L861822-10	AIRMS2	0928_14	4.09	102
L861822-11	AIRMS2	0928_15	3.96	99.0
L861822-12	AIRMS2	0928_16	4.23	106
L861822-13	AIRMS2	0928_17	4.2	105
L861822-14	AIRMS2	0928_18	4.02	100
L861822-15	AIRMS2	0928_19	4.13	103
L861822-16	AIRMS2	0928_20	4.23	106
LCS WG911990	AIRMS2	0928_02	4.17	104
LCSD WG911990	AIRMS2	0928_03	4.12	103
BLANK WG911990	AIRMS2	0928_04	3.72	93.1

BFB --1,4-BROMOFLUOROBENZENE True Value: 4 % Rec. Limits: 60 - 140

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by TO-15 by Method TO-15		
Project No:	666378.01 SG	Matrix:	Air - ppb
Project:	MGM DEAP Soil Vapro	EPA ID:	TN00003
Collection Date:	9/19/2016	**Analytic Batch:**	**WG912392**
Analysis Date:	9/29/2016	Analyst:	564
Instrument ID:	AIRMS2		
Sample Numbers:	L861822-06, -08, -09, -12, -13, -15, -16		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	BFB % Rec.	BFB % Rec
L861822-06	AIRMS2	0929_11	3.42	85.5
L861822-08	AIRMS2	0929_14	3.68	91.9
L861822-09	AIRMS2	0929_09	3.84	95.9
L861822-12	AIRMS2	0929_15	3.68	92.0
L861822-13	AIRMS2	0929_10	3.63	90.8
L861822-14	AIRMS2	0929_12	3.51	87.9
L861822-15	AIRMS2	0929_16	3.77	94.2
L861822-16	AIRMS2	0929_13	3.67	91.8
LCS WG912392	AIRMS2	0929_02	3.94	98.4
LCSD WG912392	AIRMS2	0929_03	3.95	98.7
BLANK WG912392	AIRMS2	0929_04	3.54	88.6

BFB --1,4-BROMOFLUOROBENZENE True Value: 4 % Rec. Limits: 60 - 140

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project No: 666378.01 SG
Project: MGM DEAP Soil Vapro EPA ID: TN00003
Collection Date: 9/19/2016
Instrument ID: AIRMS2

Instrument Performance Summary

FileID: 0928_01.D Date: 9/28/2016 Time: 6:53 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	8 - 40% of mass 95	21.6
75	30 - 66% of mass 95	48
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0
174	50 - 120% of mass 95	86
175	4 - 9% of mass 174	8.2
176	93 - 101% of mass 174	97.9
177	5 - 9% of mass 176	6.4

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG911990	LCS WG911990	0928_02.D	9/28/2016	7:38 AM
LCSD WG911990	LCSD WG911990	0928_03.D	9/28/2016	8:23 AM
Blank WG911990	Blank WG911990	0928_04.D	9/28/2016	9:10 AM
AMS-01-0916	L861822-01	0928_05.D	9/28/2016	9:59 AM
AMS-02-0916	L861822-02	0928_06.D	9/28/2016	10:44 AM
AMS-03-0916	L861822-03	0928_07.D	9/28/2016	11:29 AM
AMS-04-0916	L861822-04	0928_08.D	9/28/2016	12:14 PM
AMS-FD-0916	L861822-05	0928_09.D	9/28/2016	12:59 PM
SV-TMPZ1-27	L861822-06	0928_10.D	9/28/2016	1:44 PM
SV-TMPZ1-08	L861822-07	0928_11.D	9/28/2016	2:30 PM
VIMS-10-0916	L861822-08	0928_12.D	9/28/2016	3:16 PM
SV-MW12-22	L861822-09	0928_13.D	9/28/2016	4:01 PM
SV-MW12-08	L861822-10	0928_14.D	9/28/2016	4:46 PM
SV-FD-0916	L861822-11	0928_15.D	9/28/2016	5:32 PM
VIMS-50-0916	L861822-12	0928_16.D	9/28/2016	6:15 PM
SV-MW08-08	L861822-13	0928_17.D	9/28/2016	7:01 PM
SV-MW08-30	L861822-14	0928_18.D	9/28/2016	7:47 PM
SV-MW02-35	L861822-15	0928_19.D	9/28/2016	8:32 PM
AMS-MW02-08	L861822-16	0928_20.D	9/28/2016	9:16 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project No: 666378.01 SG
Project: MGM DEAP Soil Vapro EPA ID: TN00003
Collection Date: 9/19/2016
Instrument ID: AIRMS2

Instrument Performance Summary

FileID: 0929_01.D Date: 9/29/2016 Time: 7:23 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	8 - 40% of mass 95	17.9
75	30 - 66% of mass 95	45.1
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0
174	50 - 120% of mass 95	90.5
175	4 - 9% of mass 174	8.2
176	93 - 101% of mass 174	98.1
177	5 - 9% of mass 176	6.5

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG912392	LCS WG912392	0929_02.D	9/29/2016	8:07 AM
LCSD WG912392	LCSD WG912392	0929_03.D	9/29/2016	8:52 AM
Blank WG912392	Blank WG912392	0929_04.D	9/29/2016	9:39 AM
SV-MW12-22	L861822-09	0929_09.D	9/29/2016	1:44 PM
SV-MW08-08	L861822-13	0929_10.D	9/29/2016	2:29 PM
SV-TMPZ1-27	L861822-06	0929_11.D	9/29/2016	3:13 PM
AMS-MW02-08	L861822-16	0929_13.D	9/29/2016	4:41 PM
VIMS-10-0916	L861822-08	0929_14.D	9/29/2016	5:24 PM
VIMS-50-0916	L861822-12	0929_15.D	9/29/2016	6:06 PM
SV-MW02-35	L861822-15	0929_16.D	9/29/2016	6:49 PM

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project: MGM DEAP Soil Vapro
Instrument ID: AIRMS2
Method Name : TOAIRMS2I26P.M

Relative Response Factor Summary

Compound Name	Level 0.19	Level 0.31	Level 0.63	Level 1.25	Level 2.5	Level 3.8	Level 5	Level 10	Level 20	Average RRF	%RSD
Propene	0.497	0.541	0.642	0.697	0.647	0.745	0.753	0.778	0.775	0.688171	15.24
1,1-DIFLUOROETHANE	0.302	0.373	0.422	0.439	0.448	0.458	0.467	0.482	0.484	0.437926	13.82
Dichlorodifluoromethane	1.006	1.211	1.395	1.511	1.533	1.539	1.465	1.215	1.361	1.322780	15.68
CHLORODIFLUOROMETHANE	0.117	0.132	0.147	0.164	0.164	0.168	0.172	0.174	0.173	0.158918	12.94
1,2-Dichlorotetrafluoroethane	1.151	1.339	1.551	1.670	1.700	1.780	1.787	1.806	1.817	1.636991	13.78
Chloromethane	0.504	0.565	0.653	0.685	0.712	0.749	0.756	0.771	0.771	0.697237	14.02
Vinyl Chloride	0.521	0.589	0.691	0.760	0.765	0.808	0.811	0.830	0.831	0.747116	15.14
1,3-Butadiene	0.453	0.463	0.598	0.623	0.655	0.681	0.695	0.709	0.709	0.632885	16.06
Bromomethane	0.424	0.484	0.539	0.559	0.579	0.603	0.613	0.624	0.619	0.568066	12.15
Chloroethane	0.270	0.297	0.362	0.371	0.397	0.423	0.426	0.438	0.437	0.387379	16.06
Vinyl Bromide	0.399	0.473	0.533	0.558	0.577	0.605	0.607	0.617	0.617	0.561964	13.36
Trichlorofluoromethane	0.880	1.053	1.228	1.283	1.317	1.374	1.378	1.409	1.400	1.276787	14.10
Ethanol		0.072	0.080	0.099	0.096	0.111	0.116	0.128	0.158	0.115318	30.25
1,1,2-Trichlorotrifluoroethane	0.872	0.994	1.138	1.179	1.219	1.240	1.253	1.293	1.309	1.186383	12.74
1,1-Dichloroethene	0.739	0.869	1.029	1.054	1.091	1.116	1.144	1.190	1.216	1.071947	15.11
Acetone	1.522	1.658	1.966	2.116	2.246	2.338	2.396	2.502	1.870	2.058342	15.59
2-Propanol	0.952	1.075	1.200	1.287	1.343	1.416	1.439	1.513	1.784	1.390306	21.00
Carbon Disulfide	1.362	1.530	1.758	1.757	1.831	1.859	1.875	1.924	1.941	1.783549	11.08
Allyl Chloride	0.661	0.772	0.955	0.957	1.009	1.032	1.057	1.100	1.133	0.986258	16.41
Methylene Chloride	0.865	0.794	0.879	0.824	0.832	0.827	0.828	0.846	0.860	0.845557	3.67
TERT-BUTYL ALCOHOL	1.308	1.377	1.526	1.541	1.501	1.593	1.604	1.657	1.621	1.542696	7.91
Methyl Tert-Butyl Ether	1.548	1.710	1.747	1.834	1.913	1.937	1.936	2.000	1.989	1.869658	8.60
Trans-1,2-Dichloroethene	0.497	0.566	0.585	0.598	0.622	0.633	0.629	0.646	0.646	0.609996	8.37
n-Hexane	0.807	0.970	1.071	1.078	1.116	1.128	1.137	1.164	1.180	1.088014	11.16
1,1-Dichloroethane	0.874	1.075	1.170	1.195	1.230	1.244	1.242	1.270	1.282	1.190333	10.96
Vinyl Acetate	0.894	0.995	1.038	1.154	1.194	1.255	1.272	1.344	1.417	1.210069	16.34
ETHYL ACETATE	0.140	0.150	0.172	0.189	0.201	0.200	0.208	0.215	0.211	0.191161	14.73
2-Butanone (MEK)	0.239	0.272	0.284	0.303	0.327	0.336	0.340	0.354	0.355	0.318785	13.60

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project: MGM DEAP Soil Vapro
Instrument ID: AIRMS2
Method Name : TOAIRMS2I26P.M

Relative Response Factor Summary

Compound Name	Level 0.19	Level 0.31	Level 0.63	Level 1.25	Level 2.5	Level 3.8	Level 5	Level 10	Level 20	Average RRF	%RSD
cis-1,2-Dichloroethene	0.714	0.891	0.890	1.156	1.202	1.230	1.228	1.271	1.266	1.116754	18.53
Tetrahydrofuran	0.645	0.818	0.831	0.873	0.915	0.944	0.944	0.989	1.014	0.903177	13.18
Chloroform	0.875	1.106	1.179	1.218	1.271	1.273	1.277	1.307	1.297	1.213886	11.29
Cyclohexane	0.668	0.808	0.876	0.918	0.965	0.961	0.956	0.984	0.978	0.913409	11.53
1,1,1-Trichloroethane	0.795	1.023	1.099	1.161	1.196	1.207	1.204	1.229	1.232	1.142188	12.42
Carbon Tetrachloride	0.771	0.916	1.044	1.075	1.121	1.149	1.139	1.168	1.157	1.073391	12.42
2,2,4-Trimethylpentane	2.546	3.270	3.560	3.665	3.788	3.859	3.844	3.940	3.930	3.635856	12.04
Benzene	0.395	0.465	0.508	0.525	0.538	0.545	0.545	0.557	0.562	0.521420	10.42
1,2-Dichloroethane	0.148	0.189	0.206	0.216	0.218	0.221	0.222	0.229	0.231	0.212062	12.54
Heptane	0.243	0.321	0.351	0.364	0.372	0.375	0.378	0.393	0.397	0.360066	13.34
Trichloroethene	0.152	0.185	0.199	0.206	0.207	0.210	0.211	0.215	0.218	0.203112	10.56
TERT-AMYL ETHYL ETHER	0.150	0.163	0.161	0.163	0.167	0.166	0.161	0.167	0.169	0.164074	3.90
METHYL CYCLOHEXANE	0.207	0.261	0.284	0.291	0.302	0.300	0.303	0.309	0.308	0.287830	11.24
1,2-Dichloropropane	0.134	0.179	0.192	0.194	0.197	0.203	0.204	0.207	0.207	0.192706	11.73
Methyl Methacrylate	0.181	0.183	0.172	0.175	0.184	0.190	0.191	0.200	0.198	0.187928	5.70
1,4-Dioxane	0.068	0.079	0.087	0.090	0.089	0.094	0.096	0.097	0.102	0.090901	12.16
Bromodichloromethane	0.215	0.274	0.305	0.324	0.336	0.340	0.344	0.355	0.355	0.321465	14.41
cis-1,3-Dichloropropene	0.219	0.244	0.274	0.295	0.300	0.310	0.312	0.325	0.323	0.293052	12.55
4-Methyl-2-Pentanone (MIBK)	0.376	0.447	0.442	0.465	0.465	0.481	0.487	0.506	0.489	0.466181	8.24
Toluene	0.454	0.550	0.604	0.632	0.648	0.664	0.664	0.678	0.665	0.621930	11.34
trans-1,3-Dichloropropene	0.174	0.200	0.213	0.229	0.241	0.252	0.255	0.267	0.264	0.237341	13.84
1,1,2-Trichloroethane	0.145	0.162	0.176	0.192	0.196	0.201	0.203	0.207	0.204	0.189260	11.20
Tetrachloroethene	0.197	0.231	0.257	0.274	0.276	0.280	0.279	0.282	0.275	0.262446	10.55
Methyl Butyl Ketone	0.253	0.304	0.312	0.337	0.355	0.380	0.384	0.418	0.396	0.355943	15.20
Chlorodibromomethane	0.199	0.238	0.264	0.293	0.304	0.316	0.317	0.330	0.324	0.291447	15.17
1,2-Dibromoethane	0.189	0.211	0.229	0.252	0.261	0.273	0.275	0.284	0.279	0.253476	13.17
Chlorobenzene	0.310	0.340	0.385	0.410	0.415	0.428	0.426	0.431	0.414	0.397650	10.32
Ethylbenzene	0.794	0.867	0.915	0.971	1.000	1.010	1.009	1.028	1.010	0.963567	8.23
M&P-Xylene	0.721	0.641	0.684	0.724	0.739	0.754	0.750	0.767	0.752	0.728205	5.28

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Est. 1970

Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project: MGM DEAP Soil Vapro
Instrument ID: AIRMS2
Method Name : TOAIRMS2I26P.M

Relative Response Factor Summary

Compound Name	Level 0.19	Level 0.31	Level 0.63	Level 1.25	Level 2.5	Level 3.8	Level 5	Level 10	Level 20	Average RRF	%RSD
O-Xylene	0.639	0.671	0.700	0.743	0.770	0.775	0.776	0.786	0.766	0.741479	7.10
Styrene	0.383	0.438	0.475	0.522	0.559	0.579	0.579	0.596	0.589	0.533341	14.47
Bromoform	0.247	0.275	0.305	0.349	0.363	0.385	0.383	0.397	0.391	0.349888	15.82
Isopropylbenzene	0.849	0.948	1.000	1.035	1.075	1.078	1.069	1.066	1.029	1.019097	7.04
1,1,2,2-Tetrachloroethane	0.429	0.478	0.506	0.537	0.557	0.568	0.564	0.561	0.537	0.529115	8.55
n-Propylbenzene	0.940	1.055	1.172	1.237	1.284	1.306	1.298	1.297	1.239	1.209329	10.05
4-Ethyltoluene	0.806	0.836	0.941	0.996	1.047	1.062	1.059	1.063	1.011	0.986024	9.63
2-Chlorotoluene	0.715	0.831	0.873	0.937	0.960	0.977	0.967	0.975	0.941	0.917275	9.51
1,4-Bromofluorobenzene	0.555	0.574	0.592	0.622	0.633	0.648	0.643	0.647	0.644	0.621445	5.66
1,3,5-Trimethylbenzene	0.750	0.780	0.811	0.839	0.867	0.877	0.867	0.863	0.815	0.832043	5.08
tert-Butylbenzene	0.706	0.764	0.815	0.829	0.846	0.847	0.834	0.821	0.779	0.804682	5.47
1,2,4-Trimethylbenzene	0.731	0.765	0.788	0.822	0.861	0.877	0.869	0.859	0.799	0.821156	5.96
sec-Butylbenzene	1.159	1.237	1.248	1.291	1.322	1.343	1.323	1.301	1.224	1.270835	4.42
1,3-Dichlorobenzene	0.334	0.330	0.369	0.448	0.484	0.515	0.516	0.520	0.491	0.452546	17.34
1,4-Dichlorobenzene	0.293	0.295	0.343	0.418	0.466	0.504	0.510	0.519	0.490	0.430805	20.60
1,2,3-TRIMETHYLBENZENE	0.751	0.800	0.811	0.857	0.877	0.876	0.880	0.867	0.802	0.833193	5.29
DICYCLOPENTADIENE	0.973	1.100	1.145	1.201	1.239	1.238	1.245	1.230	1.179	1.173974	7.20
Benzyl Chloride	0.294	0.317	0.322	0.408	0.502	0.583	0.608	0.650	0.630	0.479255	30.40
n-Butylbenzene	0.793	0.834	0.853	0.913	0.964	1.016	1.013	1.024	0.942	0.934576	8.92
1,2-Dichlorobenzene	0.379	0.390	0.400	0.458	0.493	0.515	0.510	0.504	0.468	0.460704	11.35
1,2,4-Trichlorobenzene			0.081	0.114	0.132	0.175	0.198	0.256	0.213	0.176421	35.36
Hexachloro-1,3-Butadiene	0.300	0.318	0.299	0.319	0.305	0.328	0.322	0.326	0.268	0.301350	10.37
Naphthalene			0.211	0.300	0.342	0.457	0.500	0.611	0.501	0.438013	32.14
TPH (GC/MS) Low Fraction			1.638	1.660	1.690	1.708	1.703	1.745	1.732	1.712843	3.38

ESC LAB SCIENCES
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12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project No: 666378.01 SG
Project: MGM DEAP Soil Vapro EPA ID: TN00003
Collection Date: 9/19/2016
Instrument ID: AIRMS2

Method Name : TOAIRMS2I26P.M Date : 9/28/2016
FileName : 0928_01.D Time : 6:53 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Vinyl chloride	0.7471	0.8256	10.5
trans-1,2-Dichloroethene	0.6100	0.6802	11.5
cis-1,2-Dichloroethene	1.1168	1.3174	18
Trichloroethylene	0.2031	0.2244	10.5
Tetrachloroethylene	0.2624	0.2899	10.4

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L861822
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by TO-15
Project No: 666378.01 SG
Project: MGM DEAP Soil Vapro EPA ID: TN00003
Collection Date: 9/19/2016
Instrument ID: AIRMS2

Method Name : TOAIRMS2I26P.M Date : 9/29/2016
FileName : 0929_01.D Time : 7:23 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Trichloroethylene	0.2031	0.2223	9.46
Tetrachloroethylene	0.2624	0.3067	16.8

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 10/11/2016 3:18:42 PM
Run ID : 092816
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0928_01	ICV AMS 3.8 PPBV BV091816K1374	TOAIRMS2I26P					1	1	09/28/16 0653	"BV032517K1389"
2	0928_01T	ICV AMS 3.8 ppbv BV091816K1374	TOAIRMS2I26P						1	09/28/16 0653	
3	0928_02	LCS	TOAIRMS2I26P	WG911990	TO-15	AIR		1	1	09/28/16 0738	"BV032517K1389"
4	0928_03	LCSD	TOAIRMS2I26P	WG911990	TO-15	AIR		1	1	09/28/16 0823	"BV032517K1389"
5	0928_04	BLANK	TOAIRMS2I26P	WG911990	TO-15	AIR		1	1	09/28/16 0910	"BV032517K1389"
6	0928_05	L861822-01	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 0959	"BV032517K1389"
7	0928_06	L861822-02	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1044	"BV032517K1389"
8	0928_07	L861822-03	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1129	"BV032517K1389"
9	0928_08	L861822-04	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1214	"BV032517K1389"
10	0928_09	L861822-05	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1259	"BV032517K1389"
11	0928_10	L861822-06	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1344	"BV032517K1389"
12	0928_11	L861822-07	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1430	"BV032517K1389"
13	0928_12	L861822-08	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1516	"BV032517K1389"
14	0928_13	L861822-09	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1601	"BV032517K1389"
15	0928_14	L861822-10	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1646	"BV032517K1389"
16	0928_15	L861822-11	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1732	"BV032517K1389"
17	0928_16	L861822-12	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	8	8	09/28/16 1815	"BV032517K1389"
18	0928_17	L861822-13	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1901	"BV032517K1389"
19	0928_18	L861822-14	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 1947	"BV032517K1389"
20	0928_19	L861822-15	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 2032	"BV032517K1389"
21	0928_20	L861822-16	TOAIRMS2I26P	WG911990	TO-15	AIR	AL	2	2	09/28/16 2116	"BV032517K1389"
22	0928_21	L861824-01	TOAIRMS2I26P	WG911990	TO-15	AIR	IL	1	1	09/28/16 2203	"BV032517K1389"
23	0928_22	L861824-02	TOAIRMS2I26P	WG911990	TO-15	AIR	IL	1	1	09/28/16 2251	"BV032517K1389"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 10/11/2016 3:18:43 PM
Run ID : 092816
Signature :

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
24	0928_23	L861824-03	TOAIRMS2I26P	WG911990	TO-15	AIR	IL	1	1	09/28/16 2338	"BV032517K1389"
25	0928_24	L861824-04	TOAIRMS2I26P	WG911990	TO-15	AIR	IL	1	1	09/29/16 0025	"BV032517K1389"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_01.D
Acq On : 28 Sep 2016 6:53 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:03 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.867	130	1247427	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.949	114	5092369	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3731584	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	2390483	4.1233483	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.08%				
Target Compounds							Qvalue
2) Propene	4.097	41	878832	4.0950048	ppbv		99
3) 1,1-DIFLUOROETHANE	4.106	65	566396	4.1472935	ppbv		97
4) Dichlorodifluoromethane	4.160	85	1712796	4.1520515	ppbv		100
5) CHLORODIFLUOROMETHANE	4.193	67	201438	4.0645719	ppbv		100
6) 1,2-Dichlorotetrafluor...	4.391	85	2148809	4.2091669	ppbv		100
7) Chloromethane	4.494	50	902177	4.1491235	ppbv		100
8) Vinyl Chloride	4.692	62	965514	4.1439591	ppbv		100
9) 1,3-Butadiene	4.755	39	791637	4.0109399	ppbv		99
10) Bromomethane	5.245	94	712358	4.0210956	ppbv		99
11) Chloroethane	5.405	64	493898	4.0883310	ppbv		98
12) Vinyl Bromide	5.679	106	714088	4.0746315	ppbv		99
13) Trichlorofluoromethane	5.762	101	1605479	4.0320978	ppbv		100
14) Ethanol	6.087	45	134855	3.7498569	ppbv		98
15) 1,1,2-Trichlorotrifluo...	6.458	101	1513179	4.0898778	ppbv		99
16) 1,1-Dichloroethene	6.483	61	1366751	4.0884682	ppbv		100
17) Acetone	6.578	43	2825577	4.4018405	ppbv		99
18) 2-Propanol	6.760	45	1746970	4.0292086	ppbv	#	74
19) Carbon Disulfide	6.776	76	2277556	4.0947624	ppbv		99
20) Allyl Chloride	6.950	41	1274574	4.1439952	ppbv		98
21) Methylene Chloride	7.116	49	1035299	3.9261562	ppbv		99
22) TERT-BUTYL ALCOHOL	7.256	59	1968080	4.0907904	ppbv		99
23) Methyl Tert-Butyl Ether	7.426	73	2418127	4.1472639	ppbv		100
24) Trans-1,2-Dichloroethene	7.424	96	795414	4.1812960	ppbv		99
25) n-Hexane	7.693	57	1447835	4.2670636	ppbv		98
26) 1,1-Dichloroethane	7.939	63	1571892	4.2344705	ppbv		99
27) Vinyl Acetate	7.962	43	1573970	4.1709152	ppbv		100
28) ETHYL ACETATE	8.629	70	262619	4.4052640	ppbv		94
29) 2-Butanone (MEK)	8.601	72	424002	4.2649616	ppbv		99
30) cis-1,2-Dichloroethene	8.600	61	1540703	4.4239114	ppbv		100
31) Tetrahydrofuran	8.919	42	1182320	4.1976578	ppbv		99
32) Chloroform	8.926	83	1570653	4.1490372	ppbv		99
33) Cyclohexane	9.172	84	1208855	4.2437876	ppbv		99
34) 1,1,1-Trichloroethane	9.140	97	1464927	4.1126626	ppbv		99
35) Carbon Tetrachloride	9.307	117	1383078	4.1317451	ppbv		99
36) 2,2,4-Trimethylpentane	9.547	57	4877477	4.3016332	ppbv		99
38) Benzene	9.537	78	2785961	4.1968845	ppbv		100
39) 1,2-Dichloroethane	9.591	62	1088855	4.0331787	ppbv		99
40) Heptane	9.737	43	1927443	4.2047455	ppbv		100
41) Trichloroethene	10.241	95	1071127	4.1423384	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.446	73	846472	4.0524167	ppbv		99
43) METHYL CYCLOHEXANE	10.426	83	1546545	4.2205302	ppbv		99
44) 1,2-Dichloropropane	10.510	63	1039018	4.2351343	ppbv		97
45) Methyl Methacrylate	10.563	69	969305	4.0514433	ppbv		98
46) 1,4-Dioxane	10.643	88	465510	4.0225495	ppbv	#	98
47) Bromodichloromethane	10.787	83	1667933	4.0755401	ppbv		100

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_01.D
Acq On : 28 Sep 2016 6:53 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:03 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

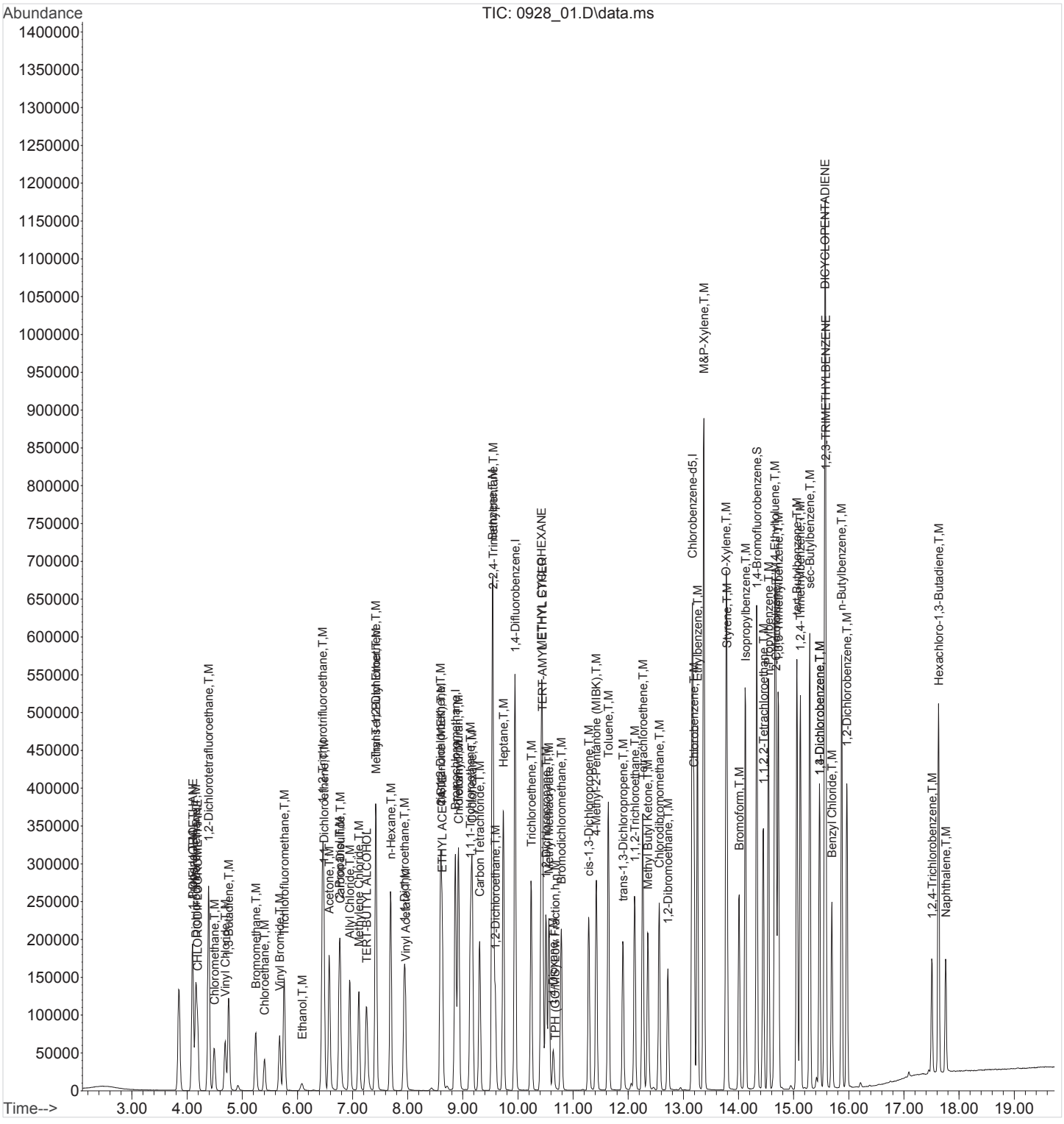
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.285	75	1557532	4.1747738 ppbv	98
49) 4-Methyl-2-Pentanone (...	11.422	43	2388313	4.0241709 ppbv	99
50) Toluene	11.642	91	3317820	4.1903594 ppbv	99
51) trans-1,3-Dichloropropene	11.907	75	1238338	4.0983283 ppbv	98
52) 1,1,2-Trichloroethane	12.119	97	997963	4.1418677 ppbv	99
53) Tetrachloroethene	12.267	166	1383789	4.1416255 ppbv	99
54) Methyl Butyl Ketone	12.358	43	1840302	4.0611426 ppbv	99
55) Chlorodibromomethane	12.565	129	1541628	4.1548990 ppbv	99
56) 1,2-Dibromoethane	12.721	107	1336625	4.1420347 ppbv	99
57) Chlorobenzene	13.194	112	2136704	4.2206873 ppbv	99
59) Ethylbenzene	13.257	91	3779811	4.2048941 ppbv	100
60) M&P-Xylene	13.372	91	5616807	8.2680364 ppbv	99
61) O-Xylene	13.776	91	2909632	4.2063533 ppbv	99
62) Styrene	13.792	104	2156331	4.3338794 ppbv	100
63) Bromoform	14.012	173	1371143	4.2006900 ppbv	99
64) Isopropylbenzene	14.126	105	4026664	4.2354214 ppbv	99
65) 1,1,2,2-Tetrachloroethane	14.450	83	2106474	4.2674921 ppbv	99
66) n-Propylbenzene	14.545	91	4820378	4.2727109 ppbv	99
67) 4-Ethyltoluene	14.660	105	3942008	4.2854509 ppbv	100
68) 2-Chlorotoluene	14.680	91	3584091	4.1883829 ppbv	99
70) 1,3,5-Trimethylbenzene	14.723	105	3239544	4.1735419 ppbv	100
71) tert-Butylbenzene	15.061	119	3115801	4.1506143 ppbv	96
72) 1,2,4-Trimethylbenzene	15.124	105	3230715	4.2173527 ppbv	100
73) sec-Butylbenzene	15.294	105	4924560	4.1537935 ppbv	100
74) 1,3-Dichlorobenzene	15.472	146	1848045	4.3773990 ppbv	100
75) 1,4-Dichlorobenzene	15.471	146	1858447	4.6241948 ppbv	99
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	3248660	4.1795114 ppbv	100
77) DICYCLOPENTADIENE	15.569	66	4645564	4.2417654 ppbv	100
78) Benzyl Chloride	15.694	91	2044391	4.5726039 ppbv	100
79) n-Butylbenzene	15.872	91	3666251	4.2050829 ppbv	100
80) 1,2-Dichlorobenzene	15.968	146	1844214	4.2909717 ppbv	99
81) 1,2,4-Trichlorobenzene	17.510	180	522130	3.1724479 ppbv	99
82) Hexachloro-1,3-Butadiene	17.631	225	1085204	3.8601746 ppbv	99
83) Naphthalene	17.760	128	1308215	3.2015417 ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	299923939m	187.6982864 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_01.D
Acq On : 28 Sep 2016 6:53 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:03 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

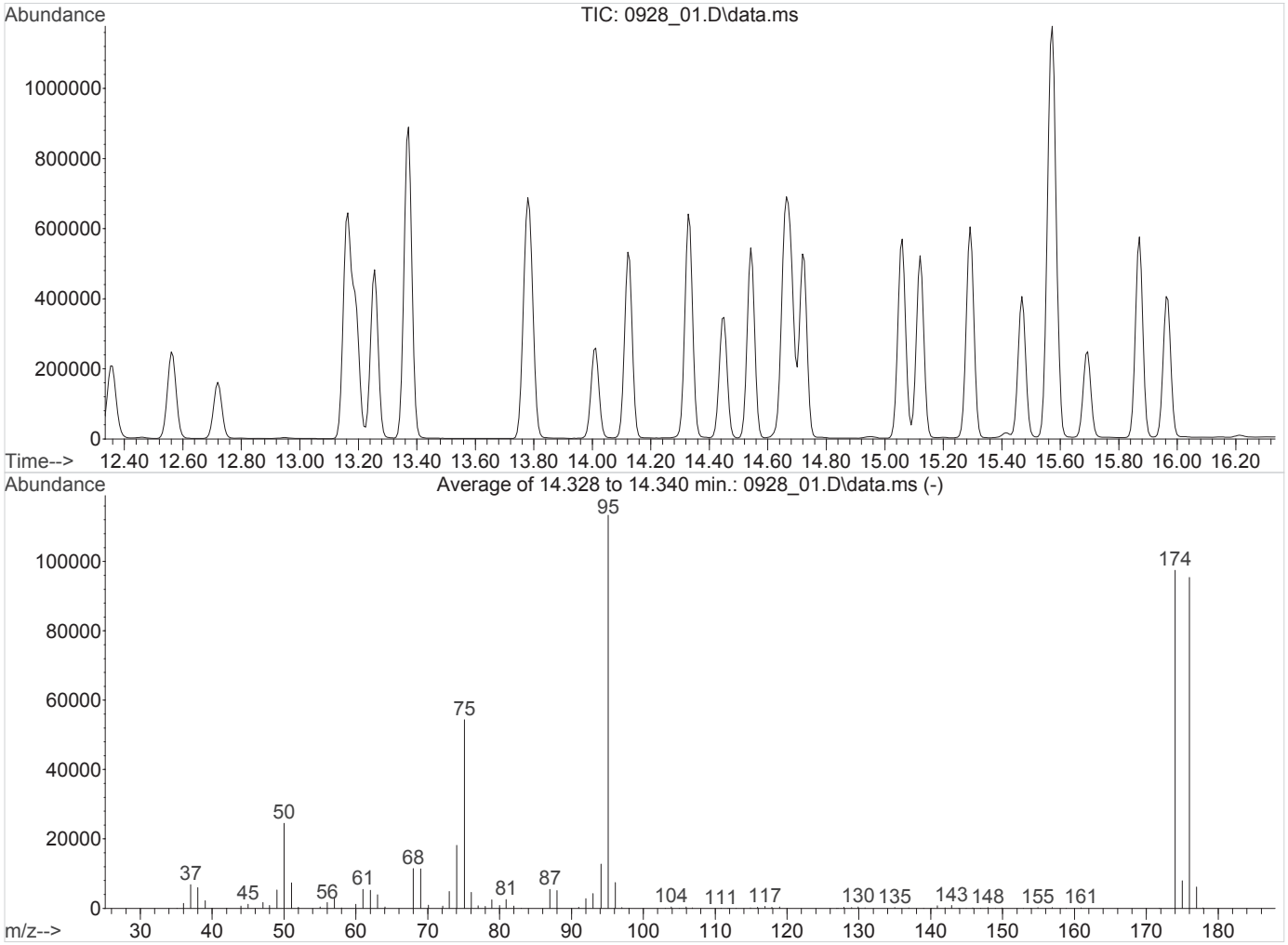


BFB

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_01.D
Acq On : 28 Sep 2016 6:53 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Title :
Last Update : Tue Sep 27 08:41:58 2016



AutoFind: Scans 2007, 2008, 2009; Background Corrected with Scan 1998

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.6	24493	PASS
75	95	30	66	48.0	54401	PASS
95	95	100	100	100.0	113365	PASS
96	95	5	9	6.6	7427	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.0	97453	PASS
175	174	4	9	8.2	7949	PASS
176	174	93	101	97.9	95413	PASS
177	176	5	9	6.4	6118	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_02.D
Acq On : 28 Sep 2016 7:38 am
Operator : 564
Sample : LCS 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:16 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.869	130	1184056	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.950	114	4826793	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3596934	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	2328276	4.1663879	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 104.16%				
Target Compounds							Qvalue
2) Propene	4.094	41	890313	4.3705315	ppbv		98
3) 1,1-DIFLUOROETHANE	4.104	65	549802	4.2412493	ppbv		99
4) Dichlorodifluoromethane	4.158	85	1766778	4.5121348	ppbv		100
5) CHLORODIFLUOROMETHANE	4.191	67	200750	4.2674891	ppbv		100
6) 1,2-Dichlorotetrafluor...	4.391	85	2114822	4.3643054	ppbv		99
7) Chloromethane	4.492	50	883668	4.2815053	ppbv		100
8) Vinyl Chloride	4.690	62	952112	4.3051440	ppbv		100
9) 1,3-Butadiene	4.755	39	803108	4.2868347	ppbv		98
10) Bromomethane	5.246	94	709967	4.2220877	ppbv		99
11) Chloroethane	5.407	64	499625	4.3570841	ppbv		99
12) Vinyl Bromide	5.681	106	694872	4.1771902	ppbv		98
13) Trichlorofluoromethane	5.764	101	1599369	4.2317327	ppbv		99
14) Ethanol	6.092	45	138344	4.0527830	ppbv		98
15) 1,1,2-Trichlorotrifluo...	6.460	101	1483853	4.2252649	ppbv		98
16) 1,1-Dichloroethene	6.484	61	1357121	4.2769363	ppbv		99
17) Acetone	6.582	43	2804030	4.6020666	ppbv		99
18) 2-Propanol	6.765	45	1734009	4.2133604	ppbv	#	74
19) Carbon Disulfide	6.778	76	2208120	4.1823990	ppbv		100
20) Allyl Chloride	6.952	41	1252674	4.2907701	ppbv		99
21) Methylene Chloride	7.119	49	991239	3.9602569	ppbv		99
22) TERT-BUTYL ALCOHOL	7.260	59	1910780	4.1842564	ppbv		100
23) Methyl Tert-Butyl Ether	7.428	73	2337485	4.2235192	ppbv		100
24) Trans-1,2-Dichloroethene	7.426	96	745456	4.1284073	ppbv		97
25) n-Hexane	7.694	57	1388295	4.3105724	ppbv		99
26) 1,1-Dichloroethane	7.941	63	1505043	4.2713809	ppbv		99
27) Vinyl Acetate	7.964	43	1518350	4.2388670	ppbv		100
28) ETHYL ACETATE	8.631	70	251010	4.4358705	ppbv		96
29) 2-Butanone (MEK)	8.602	72	409605	4.3406569	ppbv		100
30) cis-1,2-Dichloroethene	8.602	61	1492011	4.5133856	ppbv		99
31) Tetrahydrofuran	8.920	42	1157840	4.3307530	ppbv		99
32) Chloroform	8.928	83	1524162	4.2417122	ppbv		99
33) Cyclohexane	9.173	84	1156299	4.2765420	ppbv		99
34) 1,1,1-Trichloroethane	9.141	97	1424753	4.2139513	ppbv		100
35) Carbon Tetrachloride	9.308	117	1352855	4.2577575	ppbv		99
36) 2,2,4-Trimethylpentane	9.548	57	4707741	4.3741501	ppbv		100
38) Benzene	9.539	78	2666324	4.2376605	ppbv		100
39) 1,2-Dichloroethane	9.593	62	1076184	4.2055711	ppbv		100
40) Heptane	9.738	43	1884498	4.3372553	ppbv		99
41) Trichloroethene	10.242	95	1028090	4.1946631	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.447	73	795150	4.0161651	ppbv		95
43) METHYL CYCLOHEXANE	10.426	83	1493101	4.2988720	ppbv		99
44) 1,2-Dichloropropane	10.511	63	1004307	4.3188851	ppbv		98
45) Methyl Methacrylate	10.564	69	943528	4.1606895	ppbv		100
46) 1,4-Dioxane	10.644	88	473630	4.3178969	ppbv	#	100
47) Bromodichloromethane	10.787	83	1634706	4.2141257	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_02.D
Acq On : 28 Sep 2016 7:38 am
Operator : 564
Sample : LCS 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

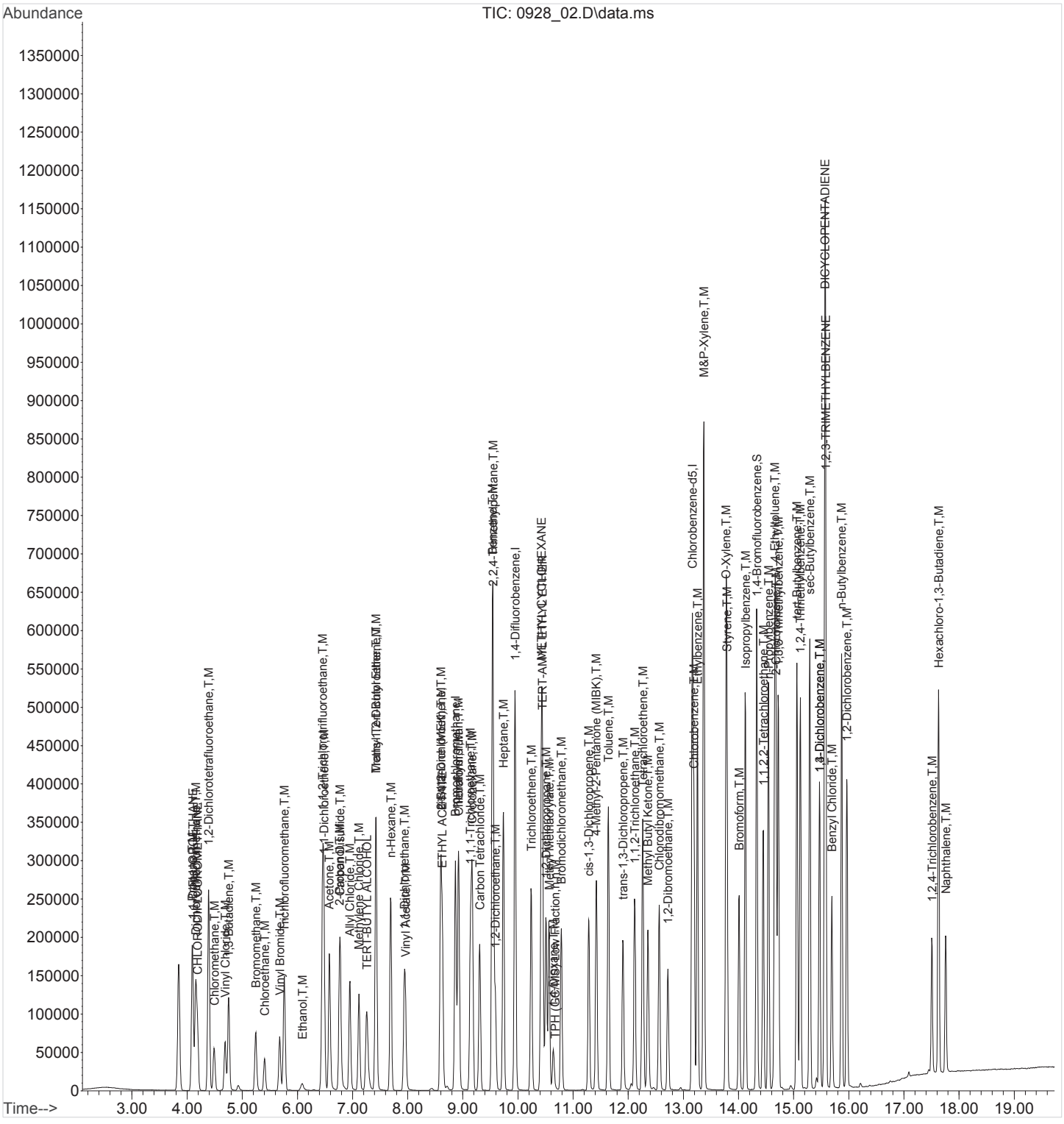
Quant Time: Sep 28 09:10:16 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	1522604	4.3057024 ppbv	98
49) 4-Methyl-2-Pentanone (...	11.423	43	2360027	4.1953023 ppbv	100
50) Toluene	11.642	91	3208260	4.2749314 ppbv	100
51) trans-1,3-Dichloropropene	11.907	75	1229237	4.2920462 ppbv	99
52) 1,1,2-Trichloroethane	12.120	97	978438	4.2842651 ppbv	99
53) Tetrachloroethene	12.267	166	1330997	4.2028027 ppbv	99
54) Methyl Butyl Ketone	12.359	43	1857220	4.3239798 ppbv	99
55) Chlorodibromomethane	12.565	129	1511522	4.2979025 ppbv	100
56) 1,2-Dibromoethane	12.722	107	1317578	4.3076596 ppbv	99
57) Chlorobenzene	13.194	112	2084447	4.3440084 ppbv	100
59) Ethylbenzene	13.258	91	3693804	4.2630421 ppbv	100
60) M&P-Xylene	13.372	91	5508209	8.4117065 ppbv	100
61) O-Xylene	13.776	91	2830191	4.2446728 ppbv	99
62) Styrene	13.792	104	2078032	4.3328573 ppbv	99
63) Bromoform	14.012	173	1358410	4.3174708 ppbv	99
64) Isopropylbenzene	14.126	105	3903923	4.2600370 ppbv	99
65) 1,1,2,2-Tetrachloroethane	14.450	83	2061740	4.3332249 ppbv	99
66) n-Propylbenzene	14.545	91	4712260	4.3332375 ppbv	100
67) 4-Ethyltoluene	14.660	105	3865500	4.3595889 ppbv	99
68) 2-Chlorotoluene	14.680	91	3513985	4.2601803 ppbv	99
70) 1,3,5-Trimethylbenzene	14.723	105	3172997	4.2408349 ppbv	99
71) tert-Butylbenzene	15.062	119	3047867	4.2121069 ppbv	99
72) 1,2,4-Trimethylbenzene	15.124	105	3164064	4.2849656 ppbv	99
73) sec-Butylbenzene	15.294	105	4811035	4.2099486 ppbv	100
74) 1,3-Dichlorobenzene	15.472	146	1817410	4.4659841 ppbv	100
75) 1,4-Dichlorobenzene	15.472	146	1828125	4.7190286 ppbv	99
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	3173217	4.2352782 ppbv	100
77) DICYCLOPENTADIENE	15.569	66	4532695	4.2936387 ppbv	99
78) Benzyl Chloride	15.695	91	2067390	4.7971461 ppbv	99
79) n-Butylbenzene	15.872	91	3620950	4.3085944 ppbv	100
80) 1,2-Dichlorobenzene	15.968	146	1836279	4.4324498 ppbv	99
81) 1,2,4-Trichlorobenzene	17.510	180	607091	3.8267519 ppbv	100
82) Hexachloro-1,3-Butadiene	17.631	225	1105226	4.0785658 ppbv	99
83) Naphthalene	17.760	128	1583201	4.0195454 ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	292229201m	189.7289486 ppbv	

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

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_02.D
Acq On : 28 Sep 2016 7:38 am
Operator : 564
Sample : LCS 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:16 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_03.D
Acq On : 28 Sep 2016 8:23 am
Operator : 564
Sample : LCSD 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:34 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.871	130	1203089	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.952	114	4898171	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.165	117	3666960	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.333	95	2349407	4.1239137	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.10%				
Target Compounds							Qvalue
2) Propene	4.097	41	887463	4.2876209	ppbv		99
3) 1,1-DIFLUOROETHANE	4.106	65	547314	4.1552657	ppbv		99
4) Dichlorodifluoromethane	4.160	85	1740213	4.3739827	ppbv		100
5) CHLORODIFLUOROMETHANE	4.194	67	198428	4.1513939	ppbv		99
6) 1,2-Dichlorotetrafluor...	4.395	85	2095718	4.2564618	ppbv		99
7) Chloromethane	4.495	50	881950	4.2055830	ppbv		100
8) Vinyl Chloride	4.694	62	953351	4.2425525	ppbv		100
9) 1,3-Butadiene	4.758	39	799853	4.2019177	ppbv		99
10) Bromomethane	5.249	94	705077	4.1266744	ppbv		99
11) Chloroethane	5.410	64	500484	4.2955323	ppbv		99
12) Vinyl Bromide	5.684	106	703295	4.1609395	ppbv		99
13) Trichlorofluoromethane	5.767	101	1611015	4.1951135	ppbv		100
14) Ethanol	6.102	45	140492	4.0505767	ppbv		100
15) 1,1,2-Trichlorotrifluo...	6.463	101	1493208	4.1846388	ppbv		98
16) 1,1-Dichloroethene	6.488	61	1358562	4.2137465	ppbv		99
17) Acetone	6.587	43	2846865	4.5984519	ppbv		99
18) 2-Propanol	6.773	45	1736918	4.1536626	ppbv		99
19) Carbon Disulfide	6.781	76	2234923	4.1661971	ppbv		100
20) Allyl Chloride	6.955	41	1265378	4.2657185	ppbv		99
21) Methylene Chloride	7.122	49	1006634	3.9581380	ppbv		99
22) TERT-BUTYL ALCOHOL	7.270	59	1939457	4.1798658	ppbv		99
23) Methyl Tert-Butyl Ether	7.434	73	2343017	4.1665396	ppbv		100
24) Trans-1,2-Dichloroethene	7.429	96	752171	4.0996990	ppbv		97
25) n-Hexane	7.697	57	1396817	4.2684197	ppbv		99
26) 1,1-Dichloroethane	7.944	63	1525016	4.2595963	ppbv		98
27) Vinyl Acetate	7.968	43	1536679	4.2221678	ppbv		100
28) ETHYL ACETATE	8.635	70	257405	4.4769162	ppbv		92
29) 2-Butanone (MEK)	8.606	72	413858	4.3163397	ppbv		99
30) cis-1,2-Dichloroethene	8.604	61	1495868	4.4534680	ppbv		99
31) Tetrahydrofuran	8.925	42	1165586	4.2907564	ppbv		99
32) Chloroform	8.930	83	1517769	4.1570986	ppbv		100
33) Cyclohexane	9.175	84	1164342	4.2381638	ppbv		99
34) 1,1,1-Trichloroethane	9.143	97	1427733	4.1559629	ppbv		100
35) Carbon Tetrachloride	9.310	117	1354850	4.1965796	ppbv		100
36) 2,2,4-Trimethylpentane	9.550	57	4736680	4.3314153	ppbv		100
38) Benzene	9.541	78	2679725	4.1968967	ppbv		100
39) 1,2-Dichloroethane	9.595	62	1076915	4.1470998	ppbv		99
40) Heptane	9.740	43	1898539	4.3058959	ppbv		100
41) Trichloroethene	10.244	95	1041791	4.1886208	ppbv		98
42) TERT-AMYL ETHYL ETHER	10.449	73	822924	4.0958796	ppbv		99
43) METHYL CYCLOHEXANE	10.428	83	1496289	4.2452735	ppbv		99
44) 1,2-Dichloropropane	10.512	63	1016780	4.3088063	ppbv		97
45) Methyl Methacrylate	10.566	69	946573	4.1132873	ppbv		100
46) 1,4-Dioxane	10.648	88	478348	4.2973632	ppbv	#	99
47) Bromodichloromethane	10.789	83	1643964	4.1762352	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_03.D
Acq On : 28 Sep 2016 8:23 am
Operator : 564
Sample : LCSD 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:34 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

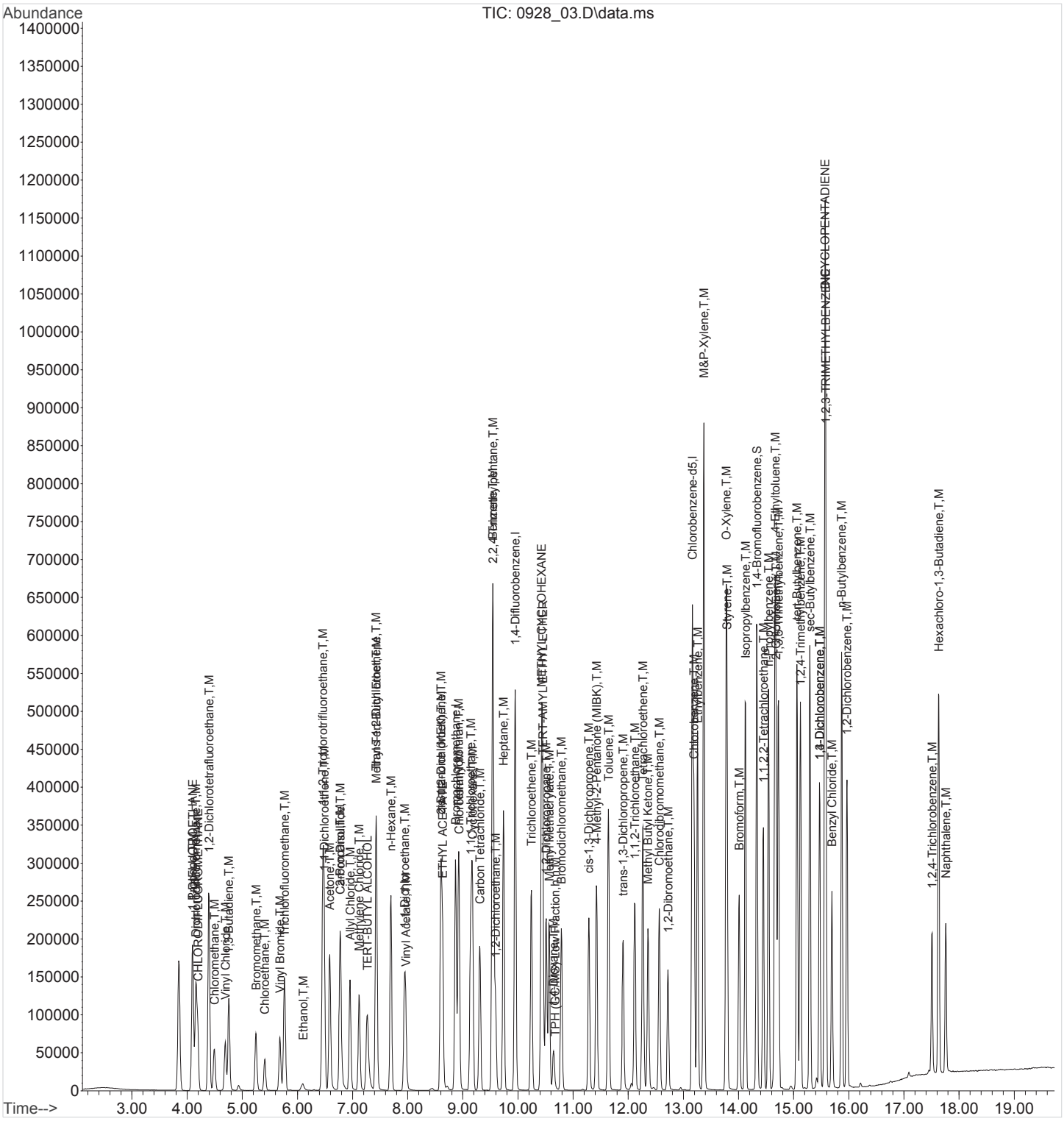
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.288	75	1527010	4.2552375 ppbv	98
49) 4-Methyl-2-Pentanone (...	11.425	43	2379849	4.1688915 ppbv	99
50) Toluene	11.644	91	3229773	4.2408841 ppbv	100
51) trans-1,3-Dichloropropene	11.908	75	1231625	4.2377172 ppbv	100
52) 1,1,2-Trichloroethane	12.121	97	978221	4.2208955 ppbv	100
53) Tetrachloroethene	12.268	166	1320978	4.1103848 ppbv	99
54) Methyl Butyl Ketone	12.362	43	1890052	4.3362943 ppbv	100
55) Chlorodibromomethane	12.566	129	1507893	4.2251035 ppbv	100
56) 1,2-Dibromoethane	12.723	107	1327379	4.2764638 ppbv	100
57) Chlorobenzene	13.195	112	2068337	4.2476225 ppbv	100
59) Ethylbenzene	13.259	91	3688119	4.1751964 ppbv	100
60) M&P-Xylene	13.373	91	5517988	8.2657194 ppbv	100
61) O-Xylene	13.777	91	2846846	4.1881165 ppbv	99
62) Styrene	13.793	104	2099546	4.2941154 ppbv	99
63) Bromoform	14.013	173	1357586	4.2324518 ppbv	100
64) Isopropylbenzene	14.127	105	3916893	4.1925674 ppbv	99
65) 1,1,2,2-Tetrachloroethane	14.451	83	2071964	4.2715525 ppbv	99
66) n-Propylbenzene	14.546	91	4724972	4.2619530 ppbv	100
67) 4-Ethyltoluene	14.661	105	3852634	4.2621020 ppbv	100
68) 2-Chlorotoluene	14.681	91	3536739	4.2058847 ppbv	100
70) 1,3,5-Trimethylbenzene	14.725	105	3177155	4.1652996 ppbv	99
71) tert-Butylbenzene	15.063	119	3038799	4.1193776 ppbv	99
72) 1,2,4-Trimethylbenzene	15.125	105	3167473	4.2076658 ppbv	99
73) sec-Butylbenzene	15.295	105	4798939	4.1191696 ppbv	100
74) 1,3-Dichlorobenzene	15.473	146	1841057	4.4376985 ppbv	99
75) 1,4-Dichlorobenzene	15.473	146	1852261	4.6900247 ppbv	100
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	3187524	4.1731287 ppbv	100
77) DICYCLOPENTADIENE	15.570	66	4552742	4.2302715 ppbv	99
78) Benzyl Chloride	15.696	91	2125367	4.8374971 ppbv	99
79) n-Butylbenzene	15.874	91	3638756	4.2470975 ppbv	100
80) 1,2-Dichlorobenzene	15.969	146	1833218	4.3405577 ppbv	100
81) 1,2,4-Trichlorobenzene	17.511	180	651273	4.0268565 ppbv	99
82) Hexachloro-1,3-Butadiene	17.633	225	1119854	4.0536291 ppbv	99
83) Naphthalene	17.761	128	1717808	4.2780093 ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	293833520m	187.1274673 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_03.D
Acq On : 28 Sep 2016 8:23 am
Operator : 564
Sample : LCSD 1x WG911990 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:10:34 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_04.D
Acq On : 28 Sep 2016 9:10 am
Operator : 564
Sample : BLANK 1x WG911990
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:30:57 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

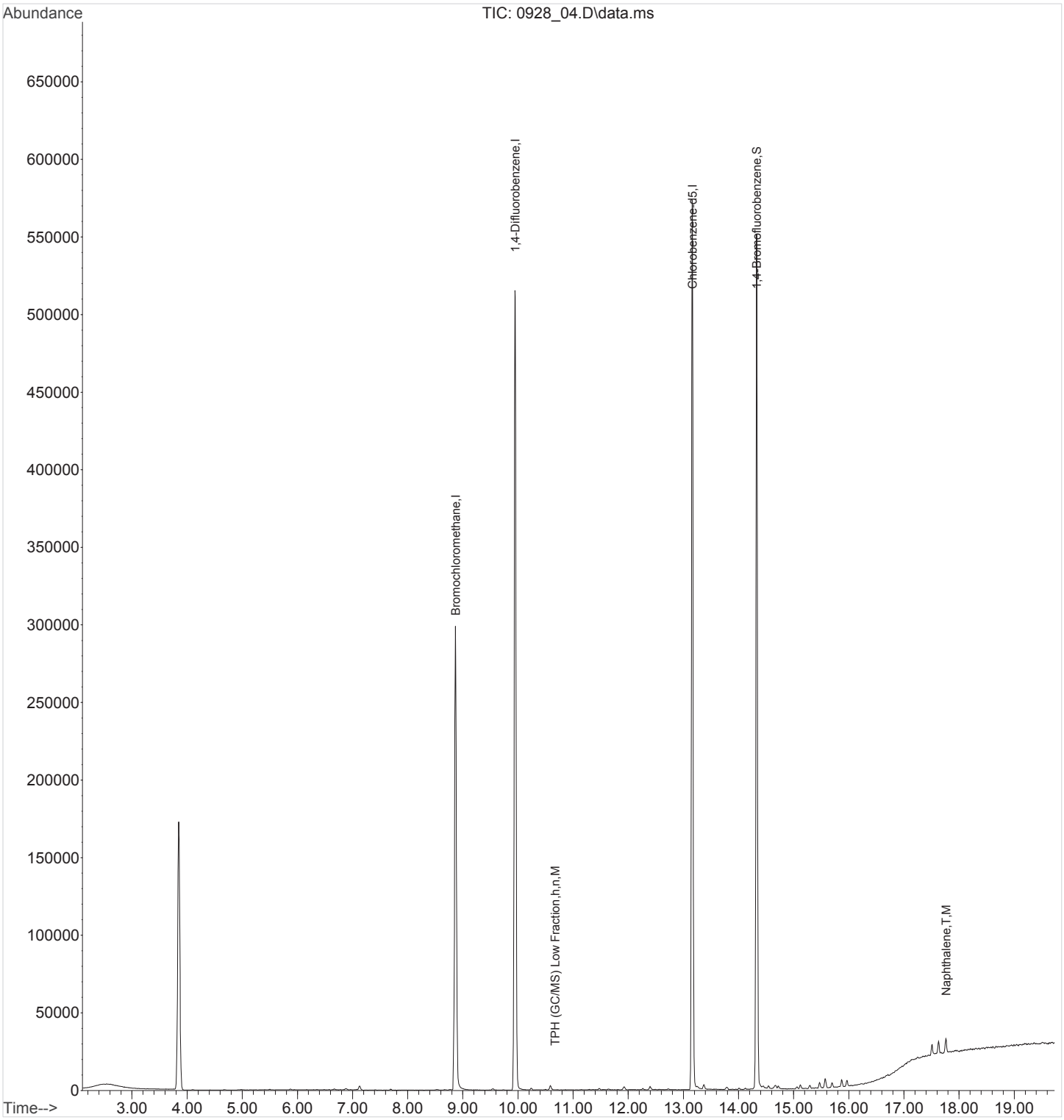
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.870	130	1199734	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.951	114	4871919	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3534830	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.331	95	2044890	3.7235661	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 93.09%			
Target Compounds						Qvalue
83) Naphthalene	17.764	128	80162	0.2070975	ppbv	# 77
84) TPH (GC/MS) Low Fraction	10.675	TIC	3477061m	2.2971335	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_04.D
Acq On : 28 Sep 2016 9:10 am
Operator : 564
Sample : BLANK 1x WG911990
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 09:30:57 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_05.D
Acq On : 28 Sep 2016 9:59 am
Operator : 564
Sample : L861822-01 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:12:01 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

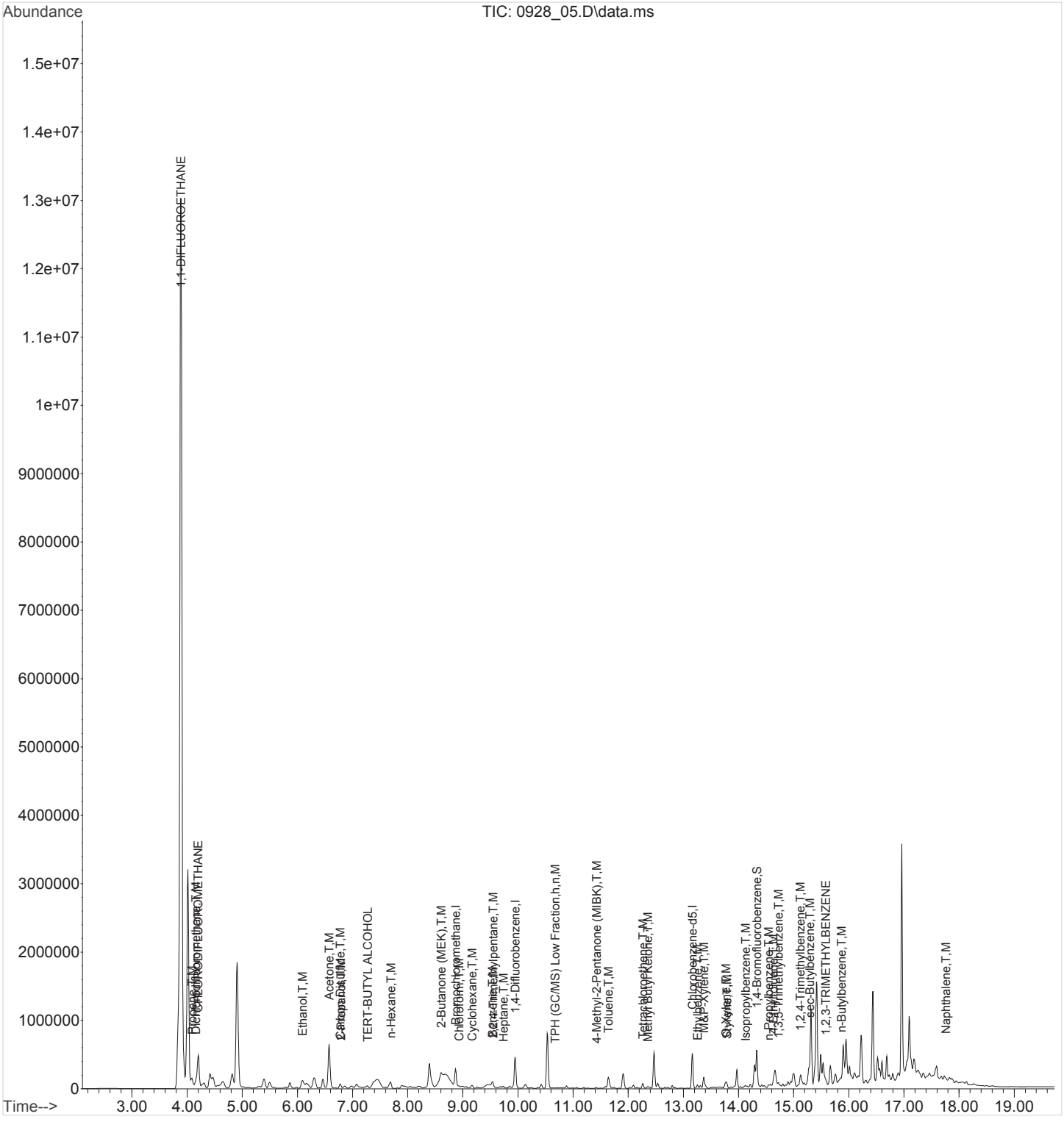
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.871	130	991646	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.951	114	4040432	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3071919	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1974538	4.1372642	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.43%			
Target Compounds						Qvalue
2) Propene	4.091	41	612033	7.1748333	ppbv	89
3) 1,1-DIFLUOROETHANE	3.888	65	1881204	34.6552498	ppbv #	1
4) Dichlorodifluoromethane	4.162	85	85626	0.5222175	ppbv	98
5) CHLORODIFLUOROMETHANE	4.195	67	90925	4.6157565	ppbv #	1
14) Ethanol	6.089	45	1382019	96.6834088	ppbv	98
17) Acetone	6.576	43	10015116	39.2529127	ppbv	99
18) 2-Propanol	6.786	45	382393	2.2188771	ppbv #	74
19) Carbon Disulfide	6.776	76	844851	3.8214532	ppbv	99
22) TERT-BUTYL ALCOHOL	7.273	59	518674	2.7123631	ppbv	98
25) n-Hexane	7.693	57	452072	3.3520198	ppbv #	27
29) 2-Butanone (MEK)	8.605	72	237600	6.0128773	ppbv	97
32) Chloroform	8.931	83	165144	1.0975355	ppbv	99
33) Cyclohexane	9.172	84	83165	0.7345245	ppbv #	19
36) 2,2,4-Trimethylpentane	9.546	57	153974	0.3416444	ppbv #	69
38) Benzene	9.539	78	422221	1.6032958	ppbv	97
40) Heptane	9.735	43	148302	0.8155038	ppbv #	82
49) 4-Methyl-2-Pentanone (...	11.426	43	91812	0.3899476	ppbv #	89
50) Toluene	11.643	91	1337518	4.2581408	ppbv	100
53) Tetrachloroethene	12.267	166	277196	2.0912653	ppbv	99
54) Methyl Butyl Ketone	12.359	43	238386	1.3260576	ppbv	95
59) Ethylbenzene	13.258	91	311182	0.8410325	ppbv #	44
60) M&P-Xylene	13.371	91	964623	3.4497199	ppbv	99
61) O-Xylene	13.777	91	387098	1.3595726	ppbv	99
62) Styrene	13.793	104	201621	0.9844885	ppbv #	90
64) Isopropylbenzene	14.126	105	134801	0.3444760	ppbv #	83
66) n-Propylbenzene	14.545	91	208836	0.4497189	ppbv #	55
67) 4-Ethyltoluene	14.631	105	574557	1.5174888	ppbv	98
70) 1,3,5-Trimethylbenzene	14.724	105	155645	0.4871564	ppbv	94
72) 1,2,4-Trimethylbenzene	15.124	105	620419	1.9676134	ppbv	100
73) sec-Butylbenzene	15.294	105	104045	0.2132114	ppbv #	24
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	179513	0.5610889	ppbv	99
79) n-Butylbenzene	15.872	91	105782	0.2947660	ppbv #	60
83) Naphthalene	17.763	128	153051	0.9099758	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	206260859m	313.6024717	ppbv	

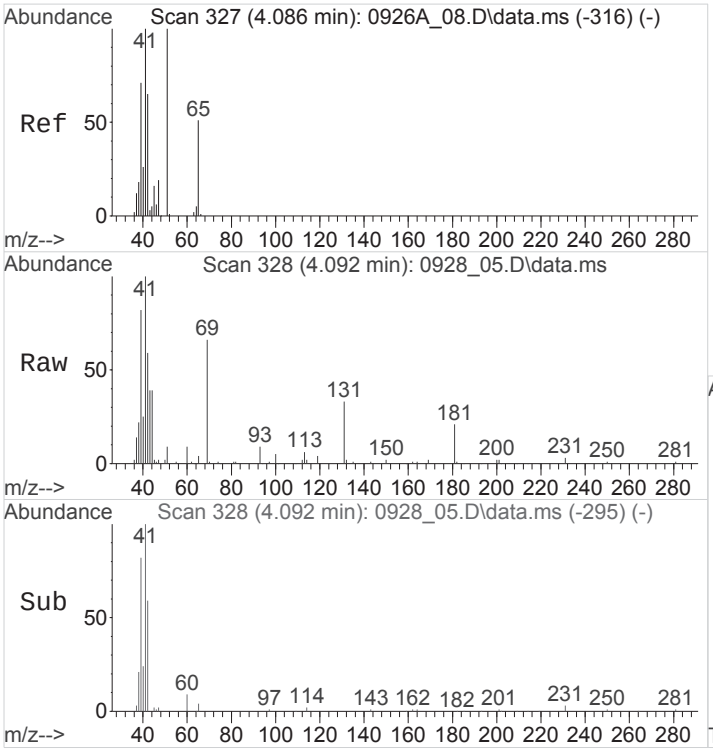
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_05.D
Acq On : 28 Sep 2016 9:59 am
Operator : 564
Sample : L861822-01 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:12:01 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

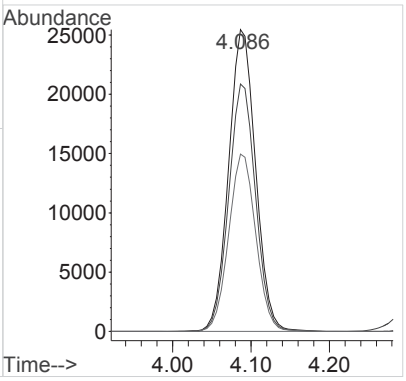


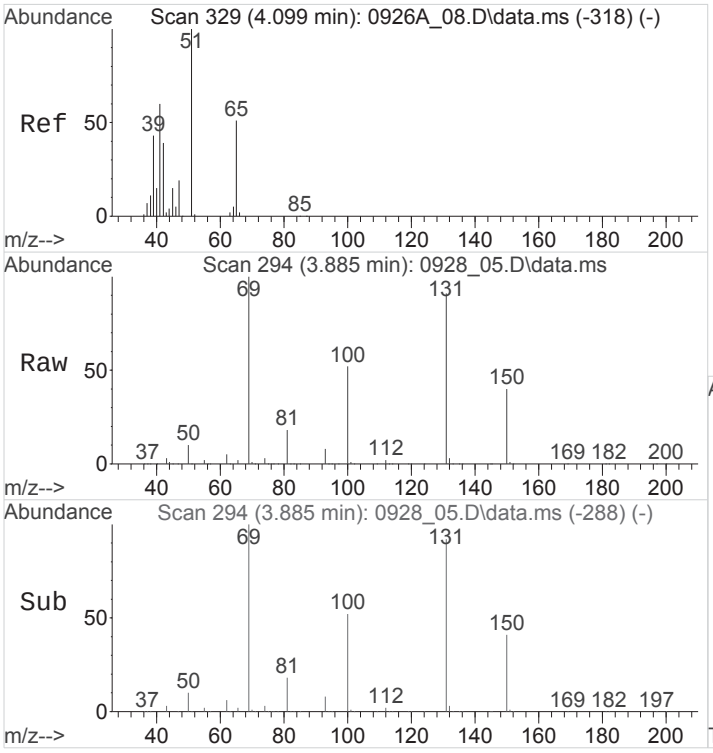


#2
Propene
Concen: 7.1748333 ppbv
RT: 4.091 min Scan# 328
Delta R.T. 0.002 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 41 Resp: 612033

Ion	Ratio	Lower	Upper
41	100		
39	81.7	56.5	84.7
42	59.1	52.2	78.4

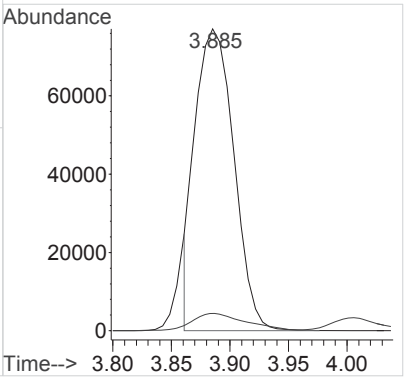


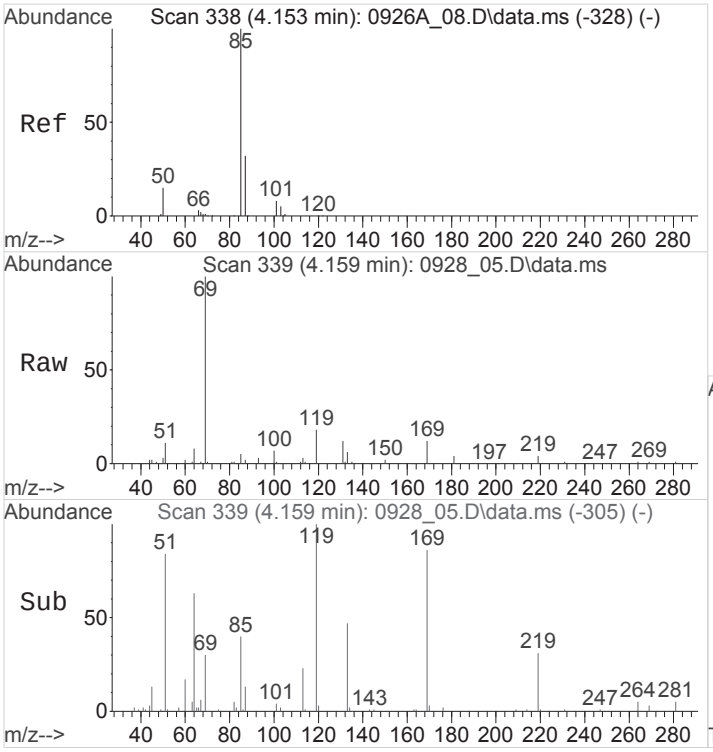


#3
1,1-DIFLUOROETHANE
Concen: 34.6552498 ppbv
RT: 3.888 min Scan# 294
Delta R.T. -0.211 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 65 Resp: 1881204

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

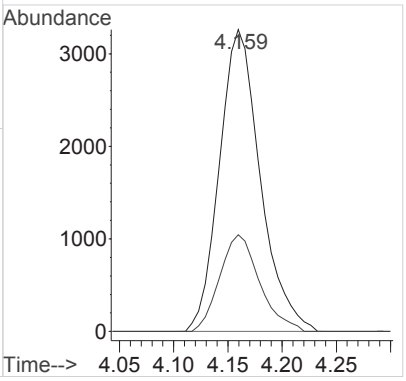


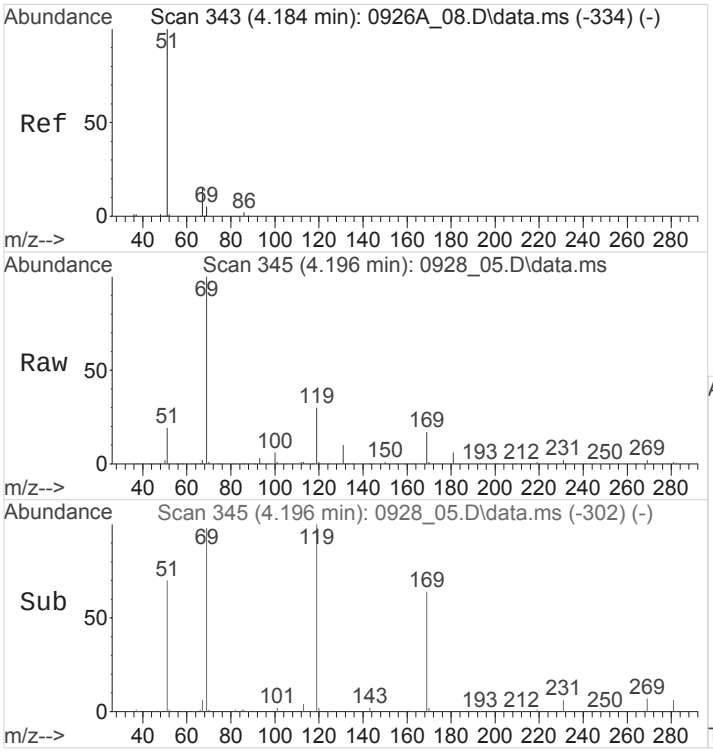


#4
Dichlorodifluoromethane
Concen: 0.5222175 ppbv
RT: 4.162 min Scan# 339
Delta R.T. 0.010 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 85 Resp: 85626

Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.8	38.6

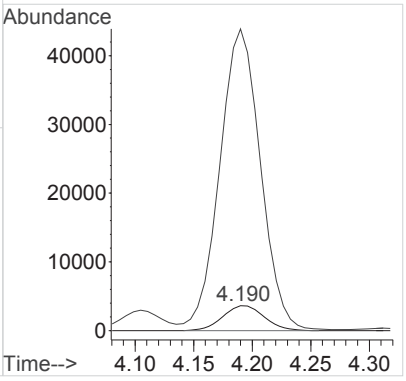


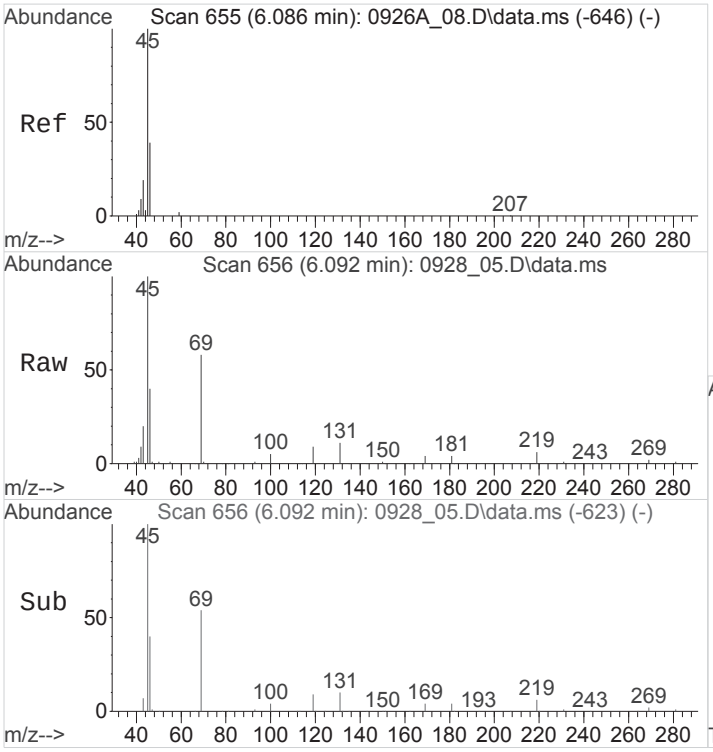


#5
CHLORODIFLUOROMETHANE
Concen: 4.6157565 ppbv
RT: 4.195 min Scan# 345
Delta R.T. 0.009 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 67 Resp: 90925

Ion	Ratio	Lower	Upper
67	100		
51	1157.8	585.8	878.8#

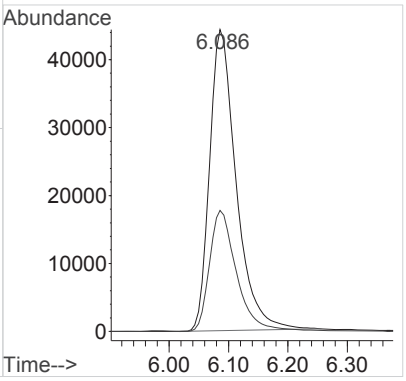


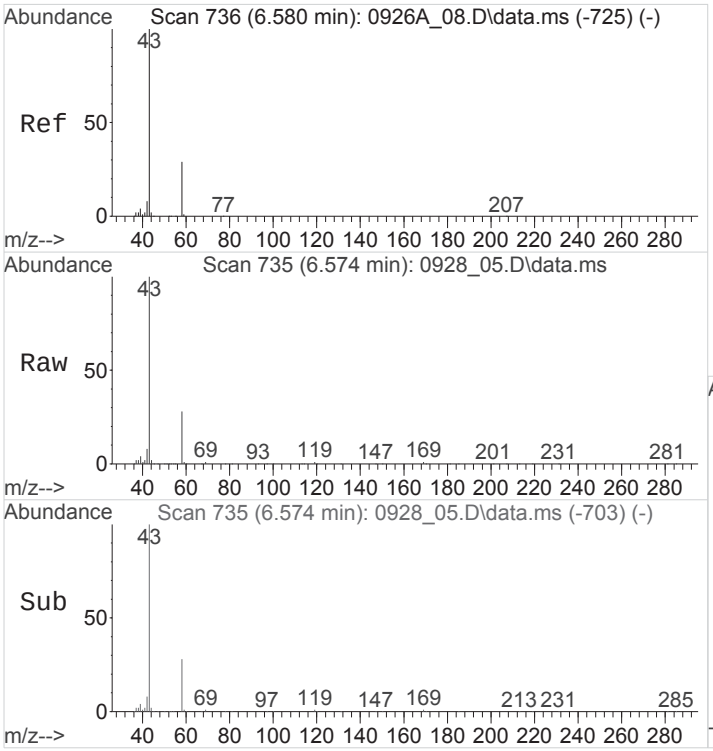


#14
Ethanol
Concen: 96.6834088 ppbv
RT: 6.089 min Scan# 656
Delta R.T. 0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 45 Resp: 1382019

Ion	Ratio	Lower	Upper
45	100		
46	40.2	33.0	49.4

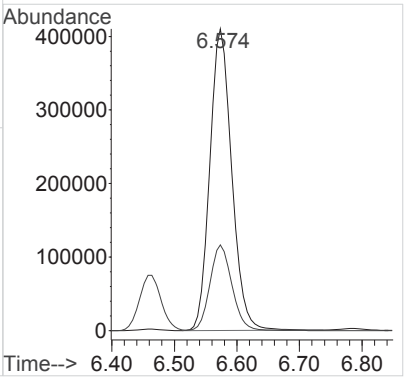


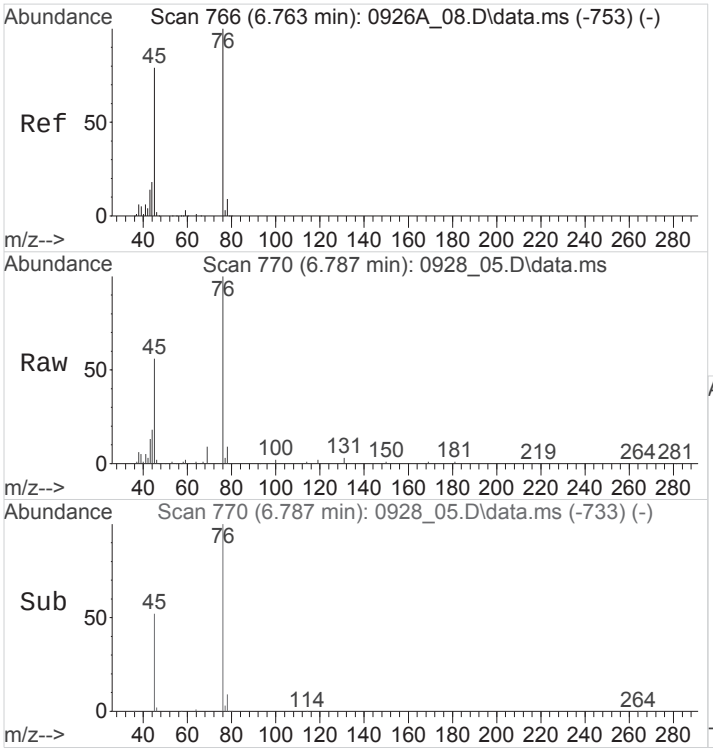


#17
Acetone
Concen: 39.2529127 ppbv
RT: 6.576 min Scan# 735
Delta R.T. -0.003 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 43 Resp:10015116

Ion	Ratio	Lower	Upper
43	100		
58	28.5	23.1	34.7

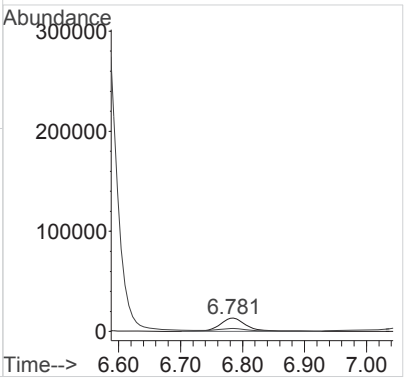


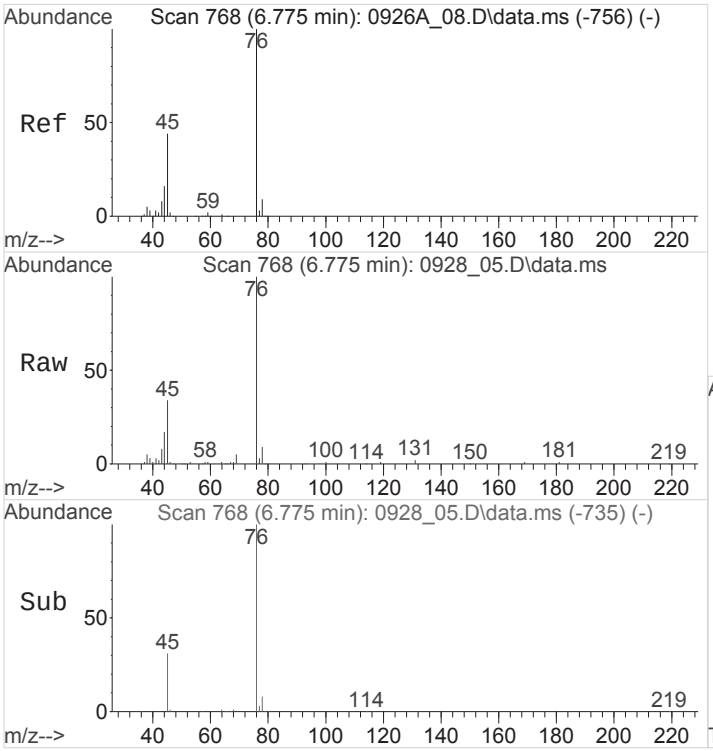


#18
2-Propanol
Concen: 2.2188771 ppbv
RT: 6.786 min Scan# 770
Delta R.T. 0.025 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 45 Resp: 382393

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

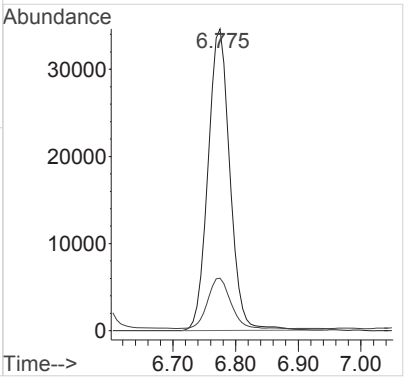


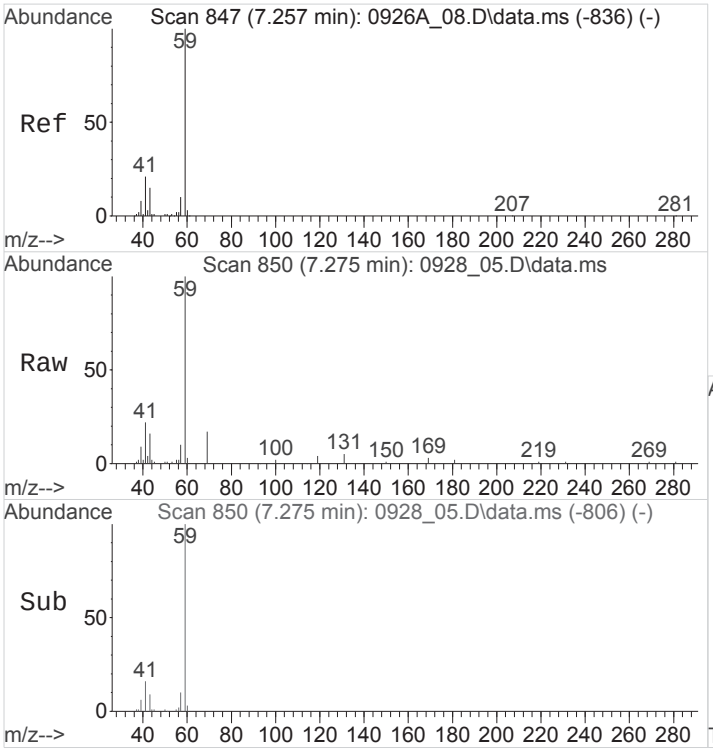


#19
Carbon Disulfide
Concen: 3.8214532 ppbv
RT: 6.776 min Scan# 768
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 76 Resp: 844851

Ion	Ratio	Lower	Upper
76	100		
44	17.3	14.2	21.2

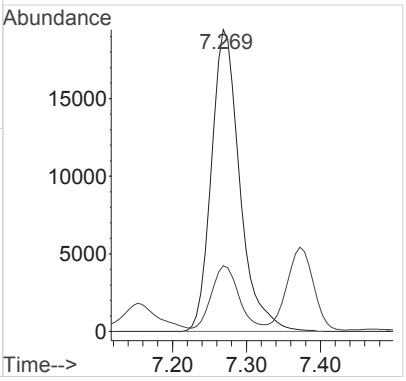


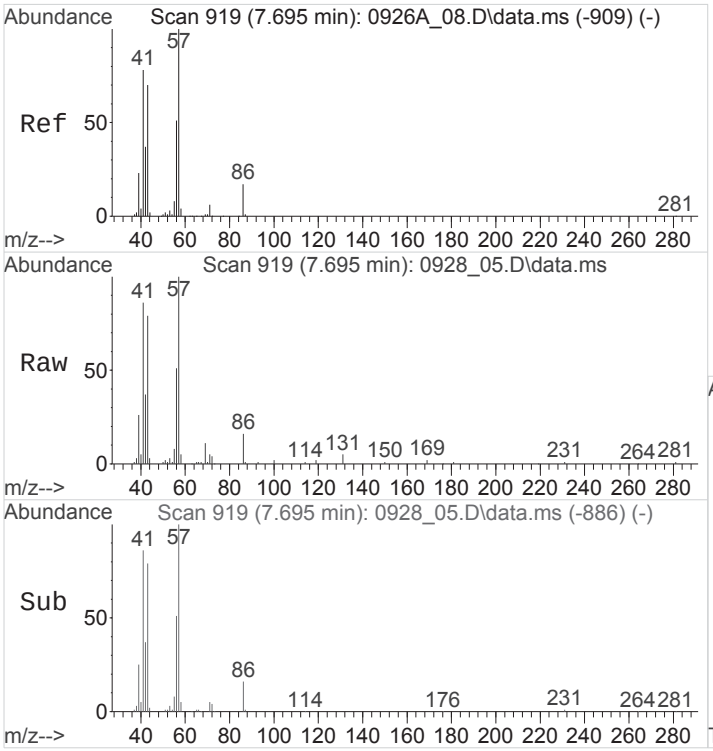


#22
TERT-BUTYL ALCOHOL
Concen: 2.7123631 ppbv
RT: 7.273 min Scan# 850
Delta R.T. 0.018 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 59 Resp: 518674

Ion	Ratio	Lower	Upper
59	100		
41	19.6	16.5	24.7

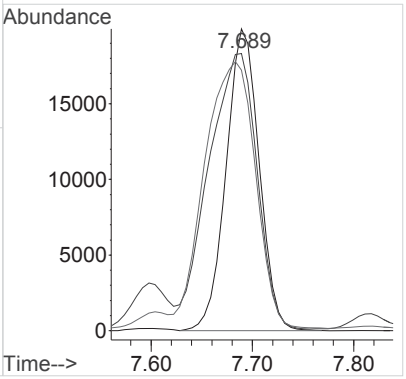


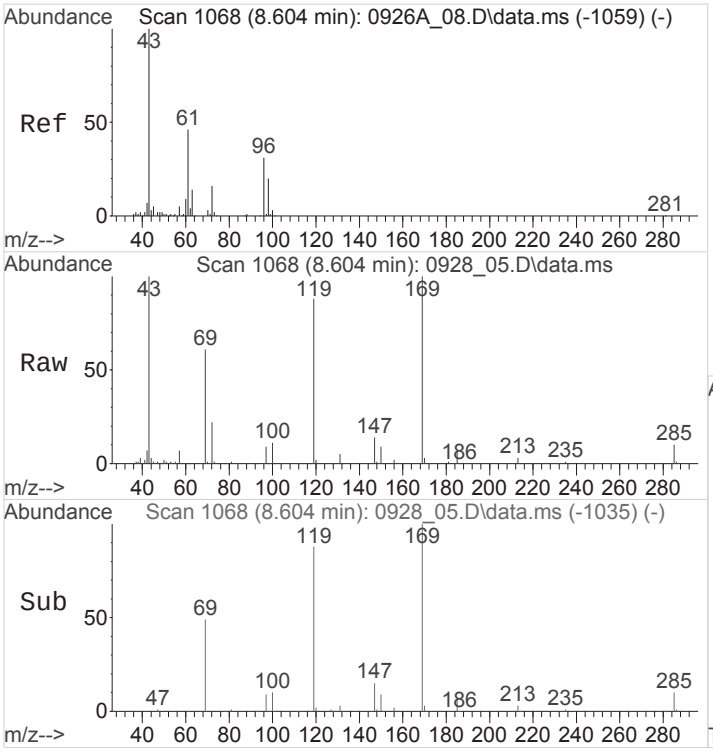


#25
n-Hexane
Concen: 3.3520198 ppbv
RT: 7.693 min Scan# 919
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 57 Resp: 452072

Ion	Ratio	Lower	Upper
57	100		
41	133.4	63.2	94.8#
43	140.8	56.0	84.0#

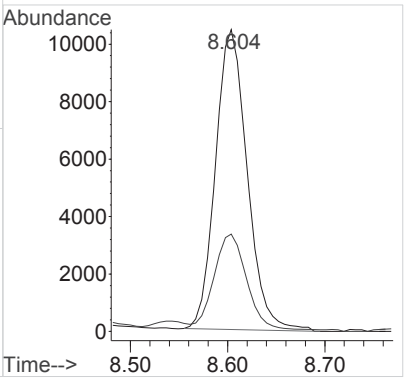


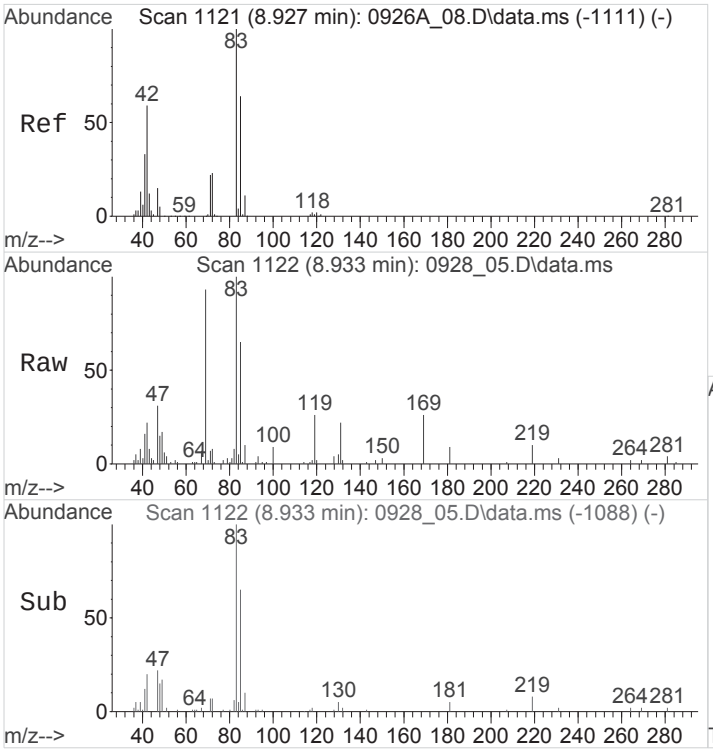


#29
2-Butanone (MEK)
Concen: 6.0128773 ppbv
RT: 8.605 min Scan# 1068
Delta R.T. 0.004 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 72 Resp: 237600

Ion	Ratio	Lower	Upper
72	100		
57	30.1	25.6	38.4

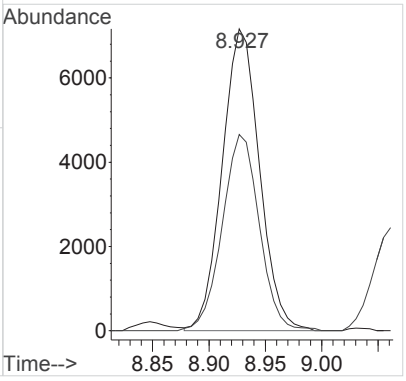


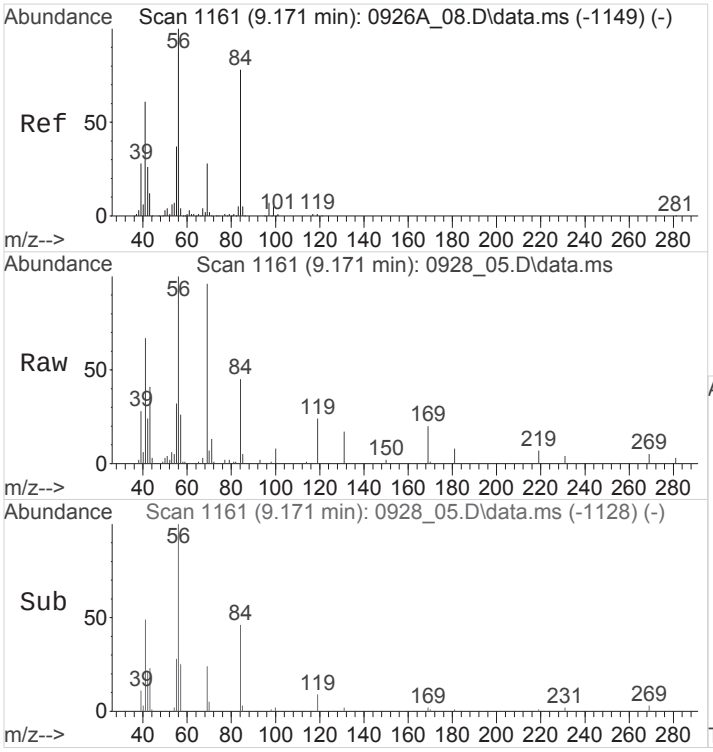


#32
Chloroform
Concen: 1.0975355 ppbv
RT: 8.931 min Scan# 1122
Delta R.T. 0.004 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 83 Resp: 165144

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.6

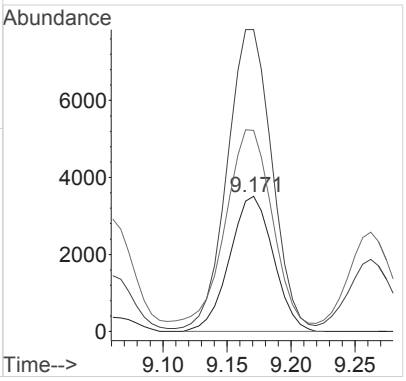


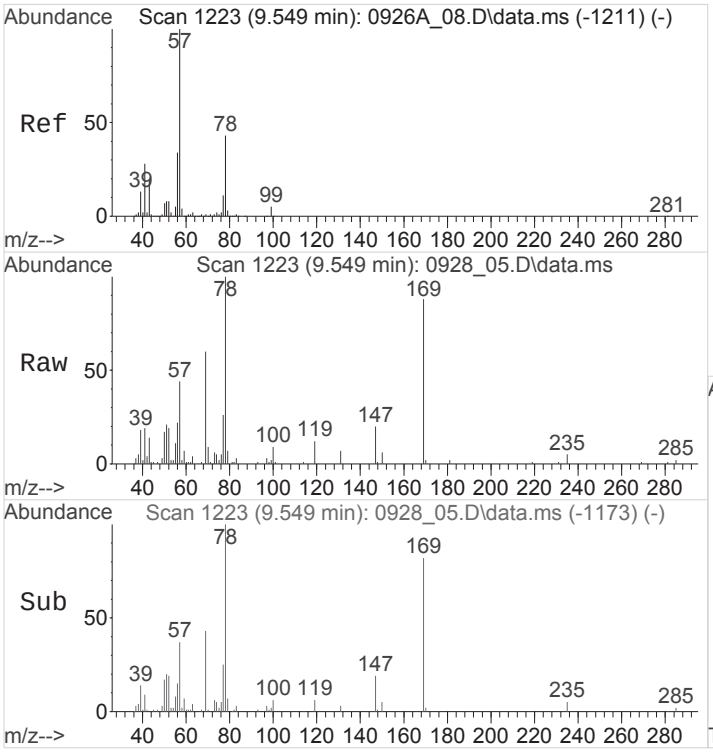


#33
Cyclohexane
Concen: 0.7345245 ppbv
RT: 9.172 min Scan# 1161
Delta R.T. -0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 84 Resp: 83165

Ion	Ratio	Lower	Upper
84	100		
56	220.4	101.4	152.0#
41	146.6	62.1	93.1#

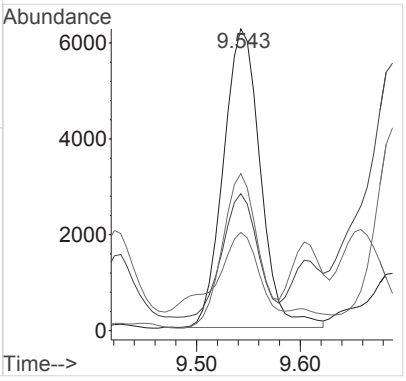


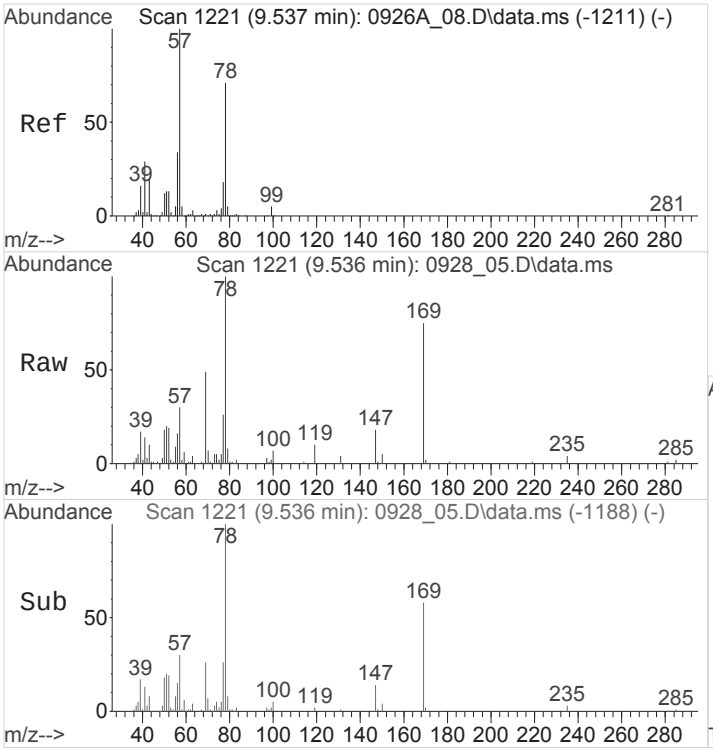


#36
2,2,4-Trimethylpentane
Concen: 0.3416444 ppbv
RT: 9.546 min Scan# 1223
Delta R.T. -0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 57 Resp: 153974

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	31.7	27.2	40.8

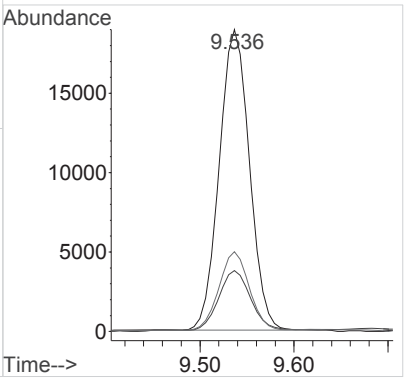


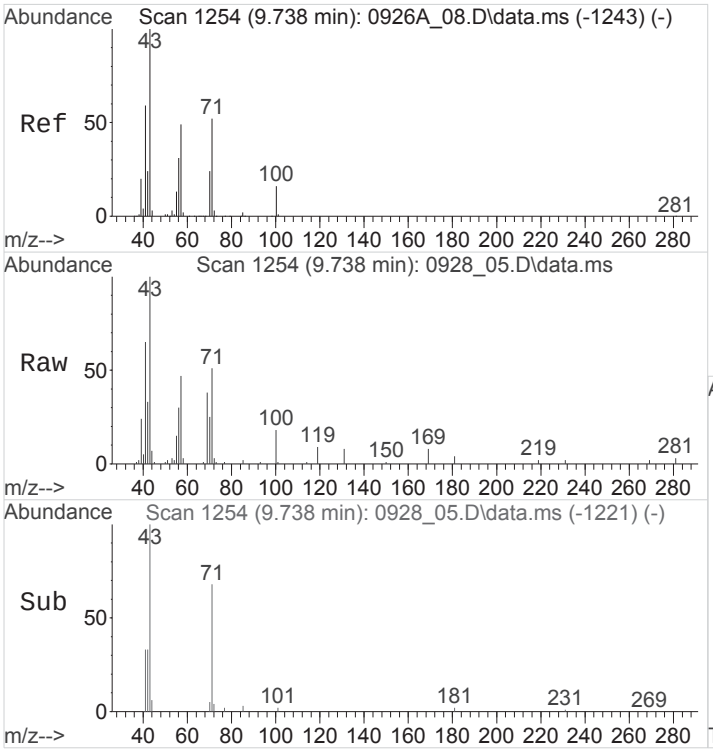


#38
Benzene
Concen: 1.6032958 ppbv
RT: 9.539 min Scan# 1221
Delta R.T. 0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 78 Resp: 422221

Ion	Ratio	Lower	Upper
78	100		
51	21.3	15.4	23.0
77	25.9	19.9	29.9

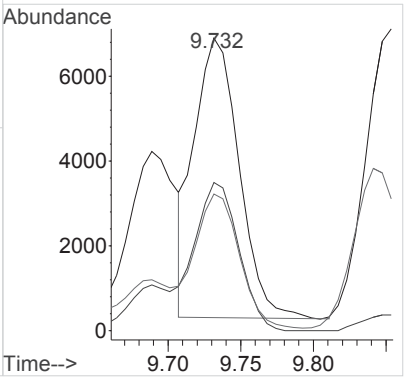


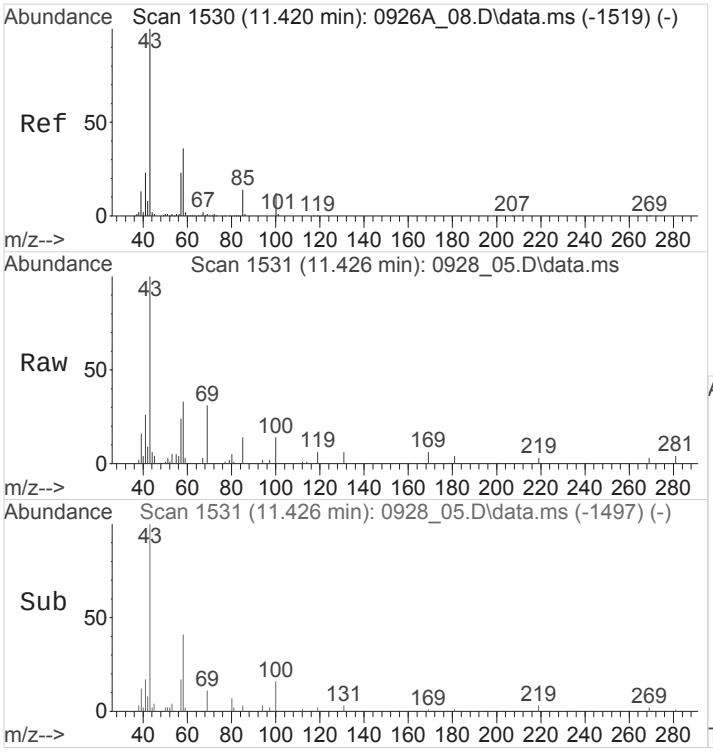


#40
Heptane
Concen: 0.8155038 ppbv
RT: 9.735 min Scan# 1254
Delta R.T. -0.002 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 43 Resp: 148302

Ion	Ratio	Lower	Upper
43	100		
71	66.9	41.4	62.0#
57	58.4	39.3	58.9

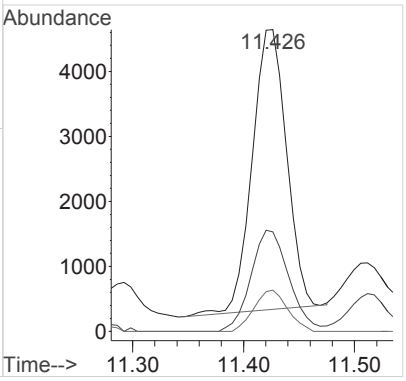


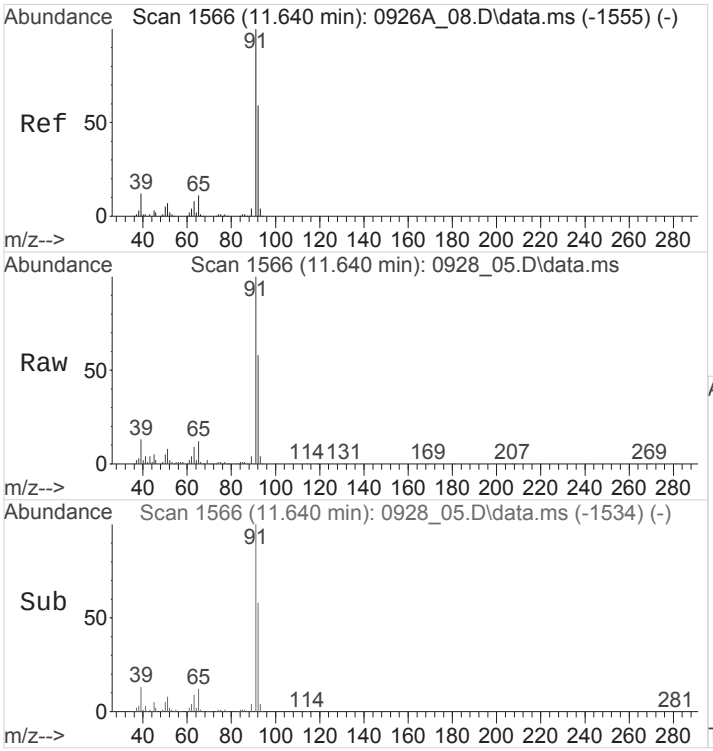


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.3899476 ppbv
RT: 11.426 min Scan# 1531
Delta R.T. 0.004 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 43 Resp: 91812

Ion	Ratio	Lower	Upper
43	100		
58	37.6	29.0	43.6
85	0.0	11.0	16.6#

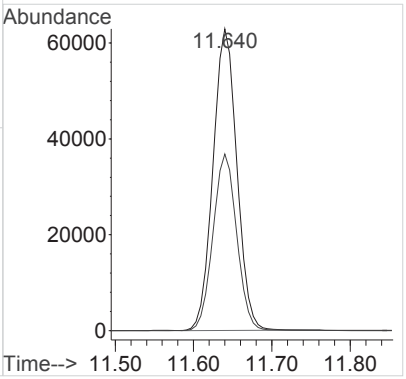


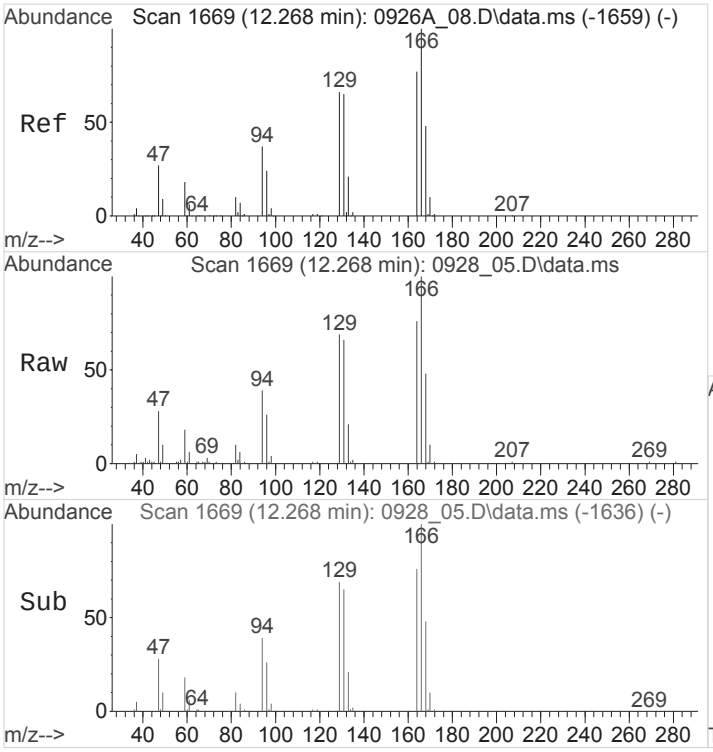


#50
Toluene
Concen: 4.2581408 ppbv
RT: 11.643 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 1337518

Ion	Ratio	Lower	Upper
91	100		
92	58.0	46.6	70.0

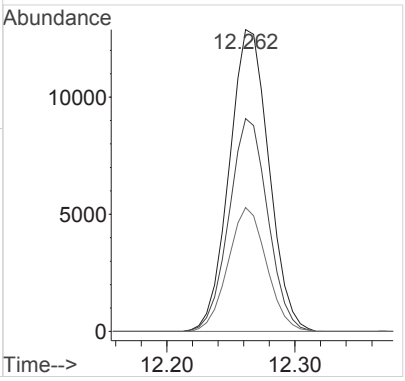


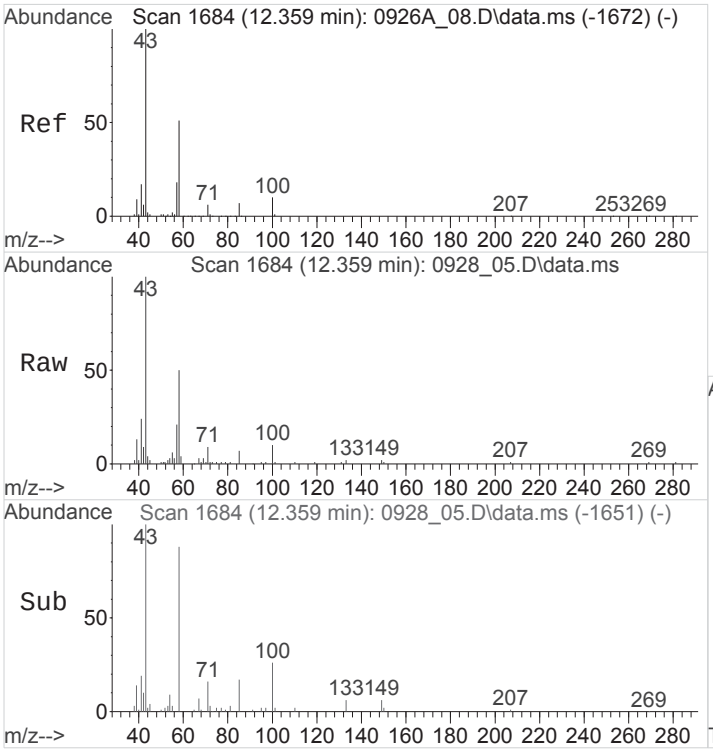


#53
Tetrachloroethene
Concen: 2.0912653 ppbv
RT: 12.267 min Scan# 1669
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:166 Resp: 277196

Ion	Ratio	Lower	Upper
166	100		
129	69.0	55.0	82.6
94	39.9	31.3	46.9

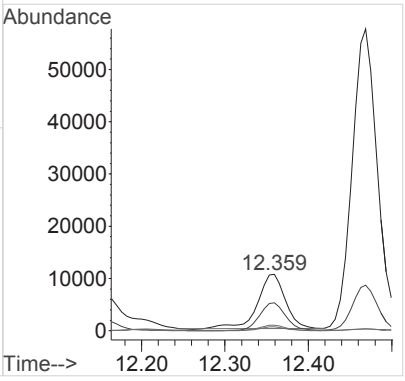


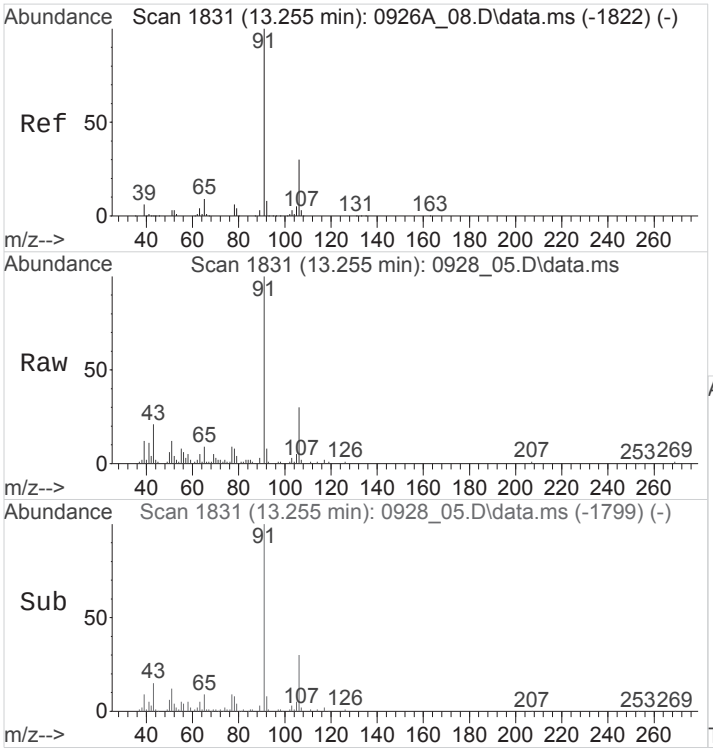


#54
Methyl Butyl Ketone
Concen: 1.3260576 ppbv
RT: 12.359 min Scan# 1684
Delta R.T. 0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 43 Resp: 238386

Ion	Ratio	Lower	Upper
43	100		
58	47.1	41.0	61.4
85	7.0	5.6	8.4
100	10.3	7.8	11.8

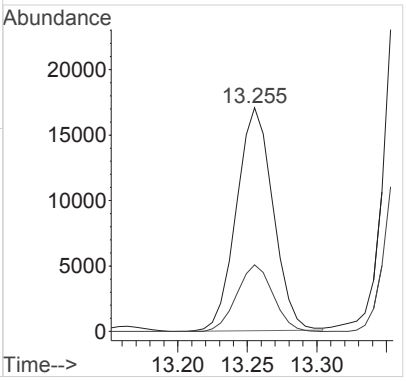


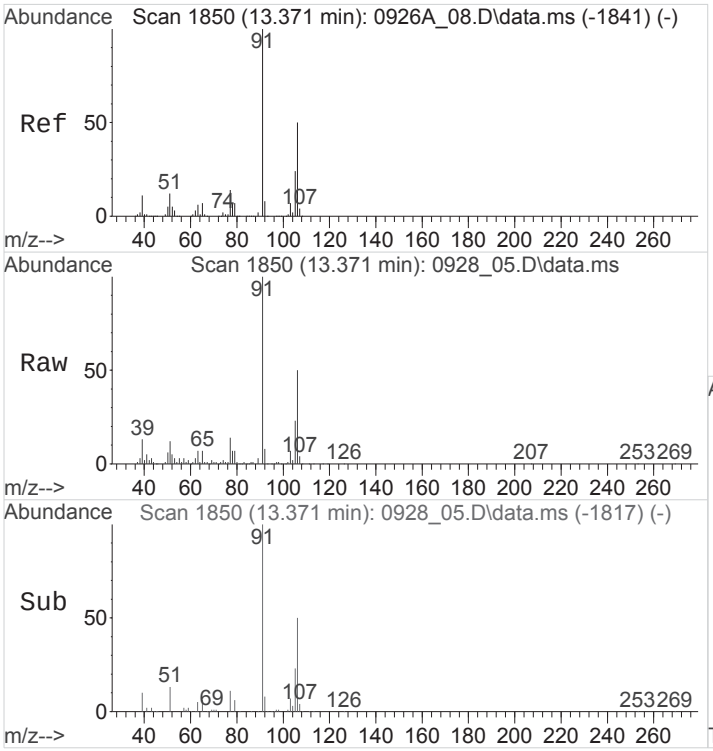


#59
Ethylbenzene
Concen: 0.8410325 ppbv
RT: 13.258 min Scan# 1831
Delta R.T. 0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 311182

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

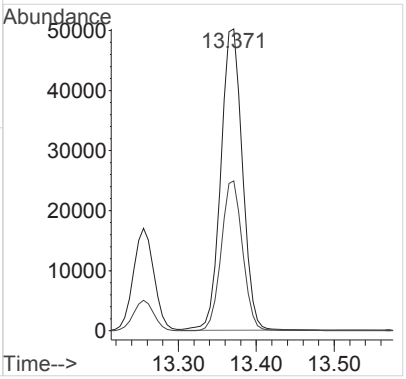


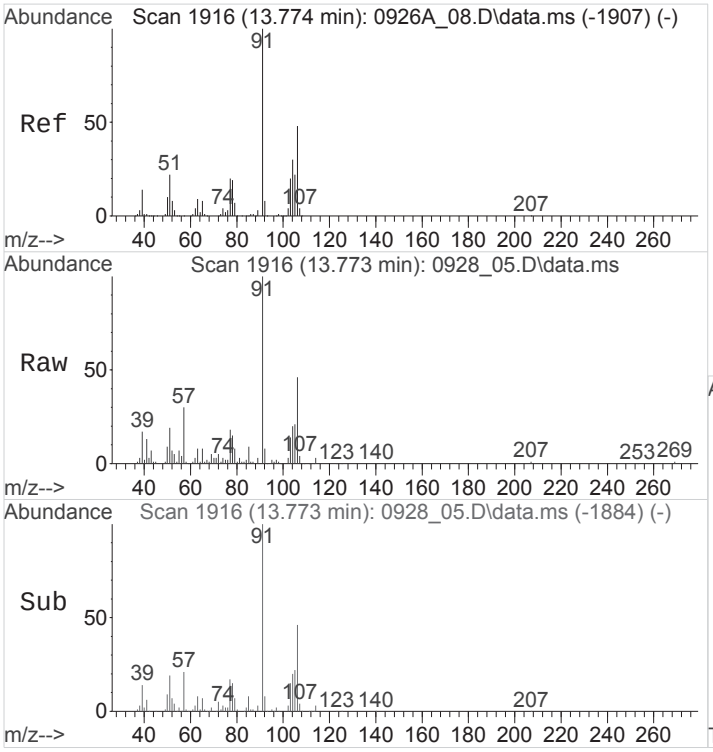


#60
M&P-Xylene
Concen: 3.4497199 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 964623

Ion	Ratio	Lower	Upper
91	100		
106	48.8	39.8	59.6

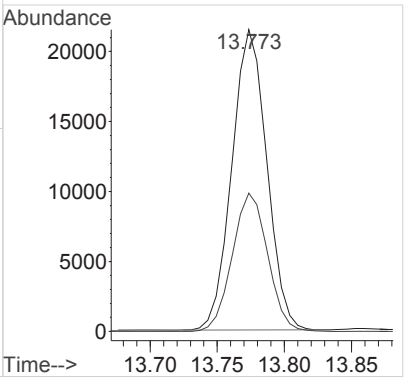


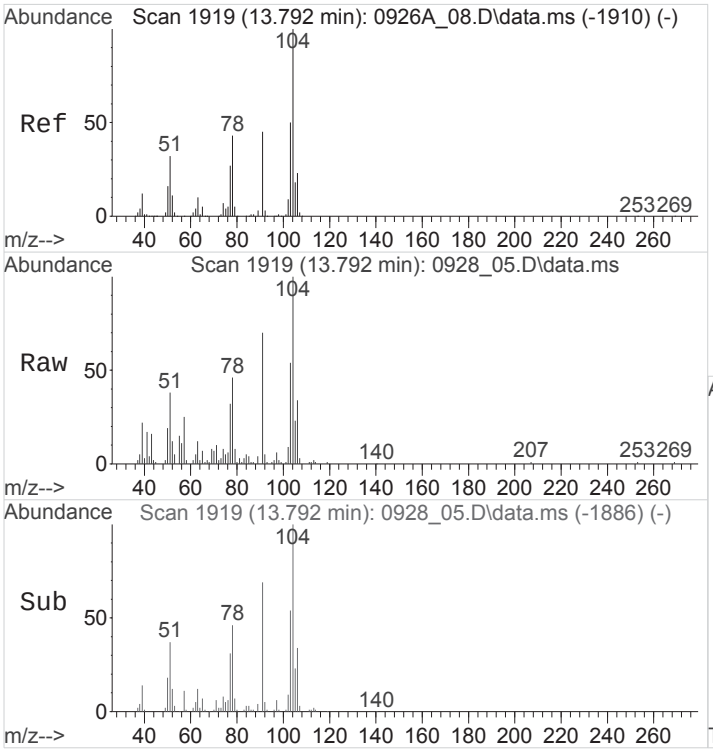


#61
O-Xylene
Concen: 1.3595726 ppbv
RT: 13.777 min Scan# 1916
Delta R.T. -0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 387098

Ion	Ratio	Lower	Upper
91	100		
106	46.8	38.2	57.2

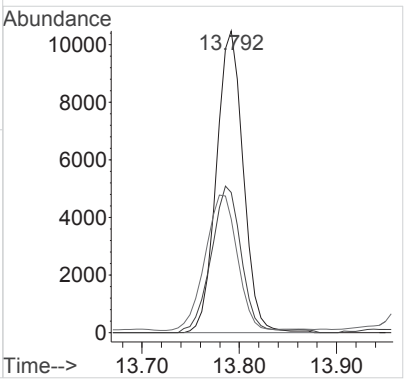


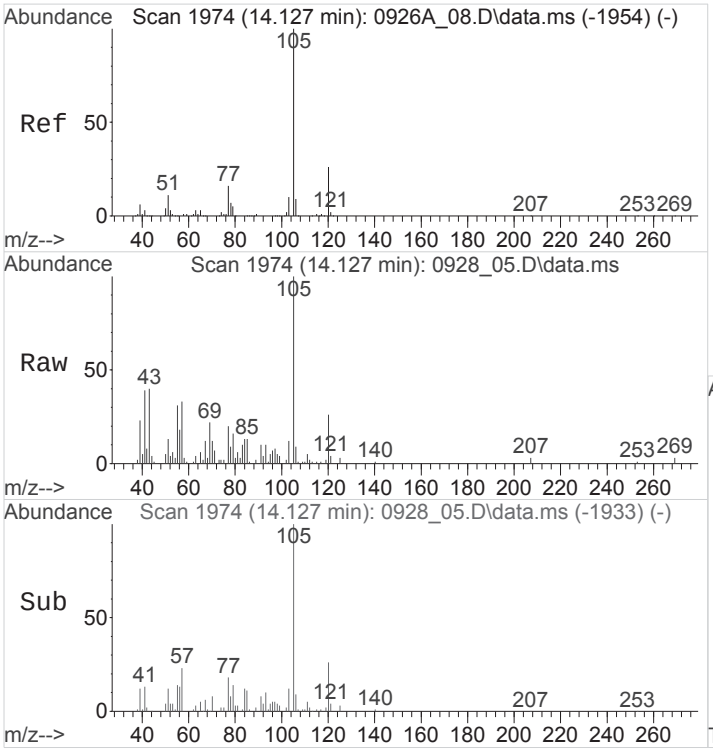


#62
Styrene
Concen: 0.9844885 ppbv
RT: 13.793 min Scan# 1919
Delta R.T. 0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:104 Resp: 201621

Ion	Ratio	Lower	Upper
104	100		
78	52.7	39.0	58.6
51	53.0	35.2	52.8#

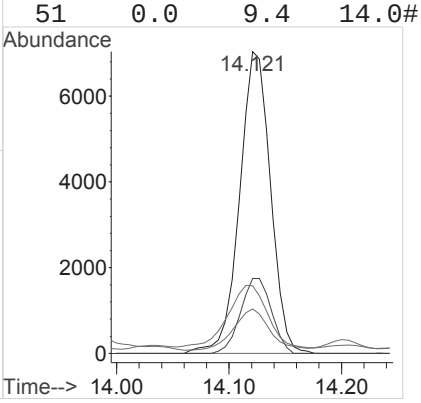


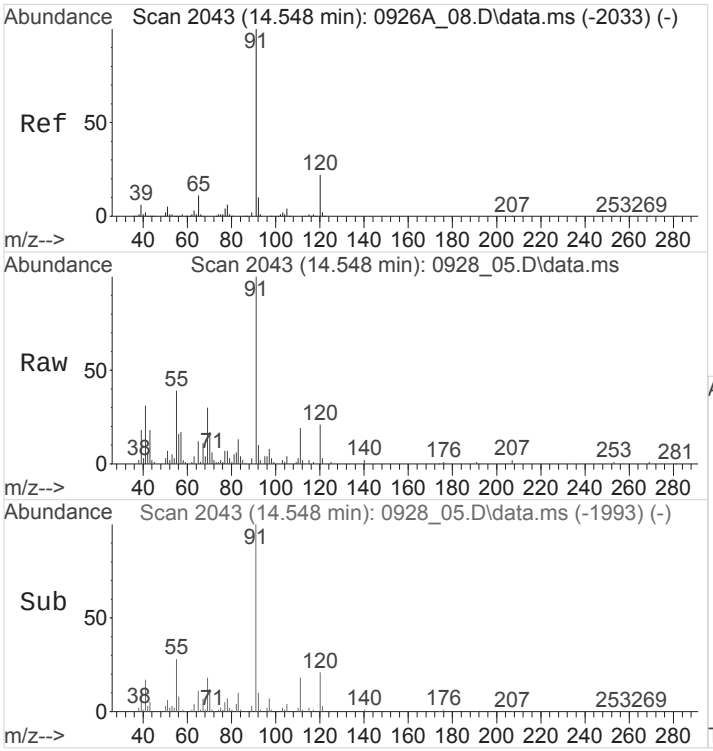


#64
Isopropylbenzene
Concen: 0.3444760 ppbv
RT: 14.126 min Scan# 1974
Delta R.T. -0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 134801

Ion	Ratio	Lower	Upper
105	100		
120	24.7	20.7	31.1
77	29.1	13.0	19.4#
51	0.0	9.4	14.0#

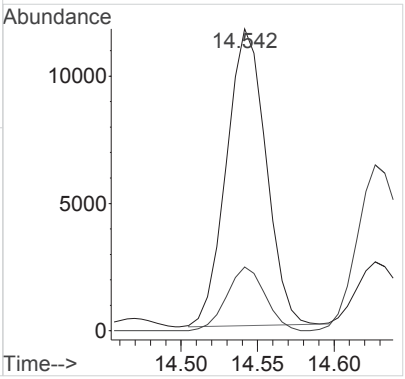


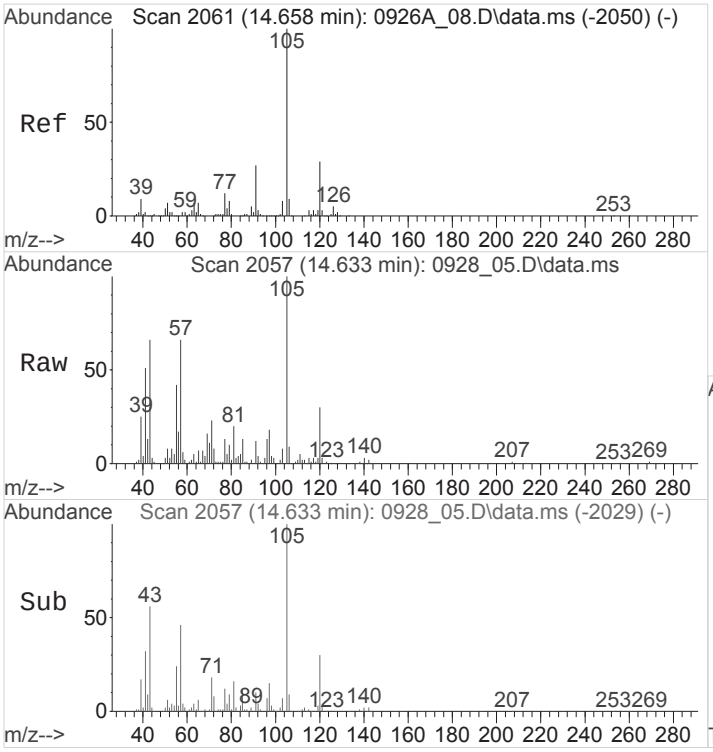


#66
n-Propylbenzene
Concen: 0.4497189 ppbv
RT: 14.545 min Scan# 2043
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 208836

Ion	Ratio	Lower	Upper
91	100		
120	0.0	17.1	25.7#

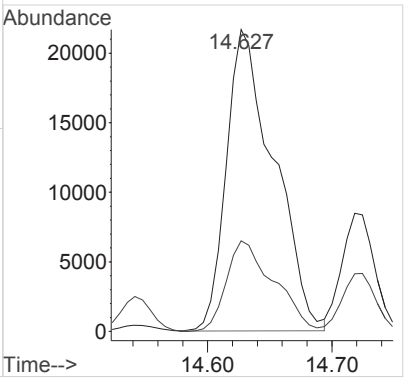


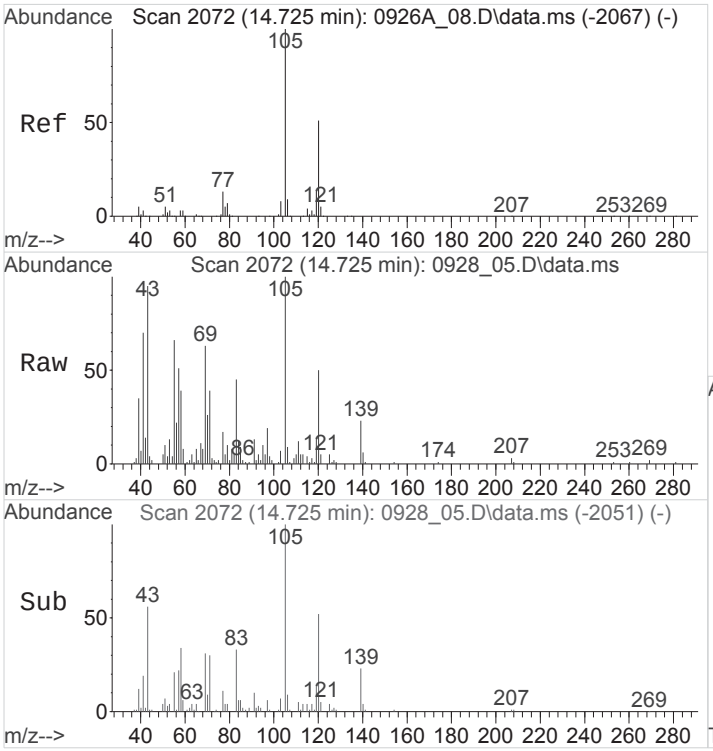


#67
4-Ethyltoluene
Concen: 1.5174888 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.029 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 574557

Ion	Ratio	Lower	Upper
105	100		
120	30.0	23.2	34.8

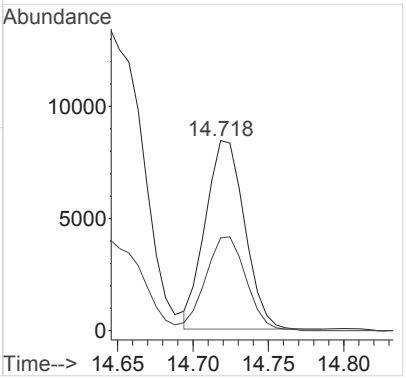


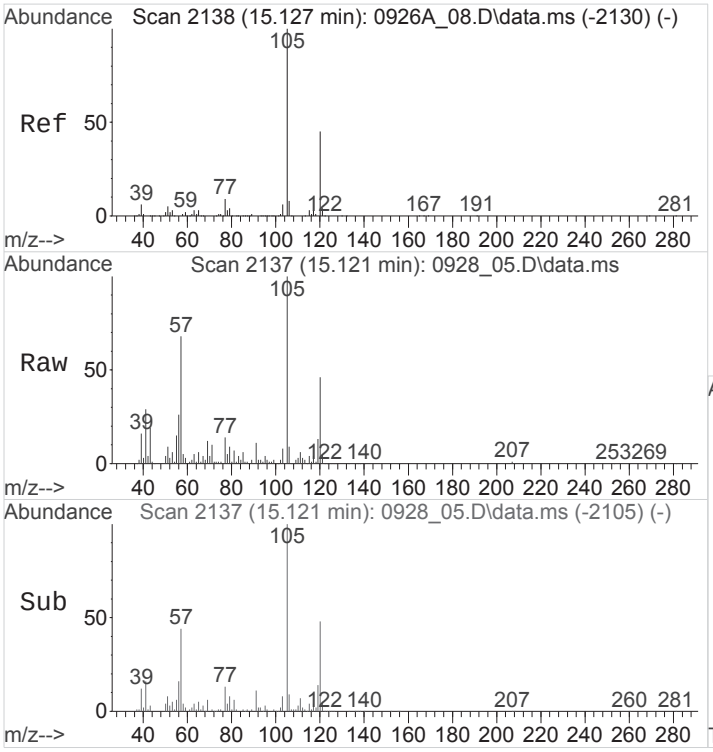


#70
1,3,5-Trimethylbenzene
Concen: 0.4871564 ppbv
RT: 14.724 min Scan# 2072
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 155645

Ion	Ratio	Lower	Upper
105	100		
120	46.0	40.2	60.4

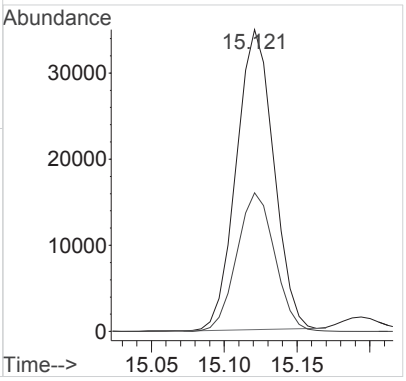


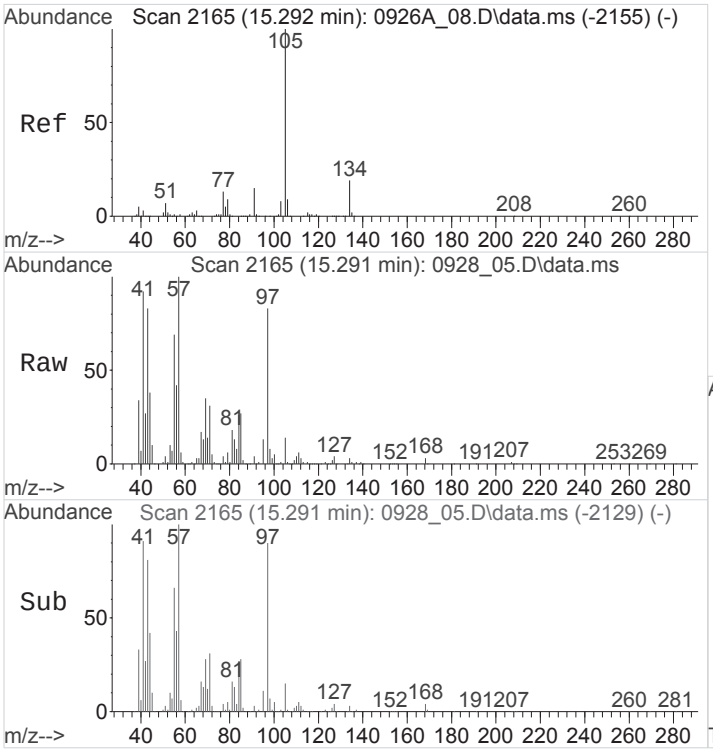


#72
1,2,4-Trimethylbenzene
Concen: 1.9676134 ppbv
RT: 15.124 min Scan# 2137
Delta R.T. -0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 620419

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

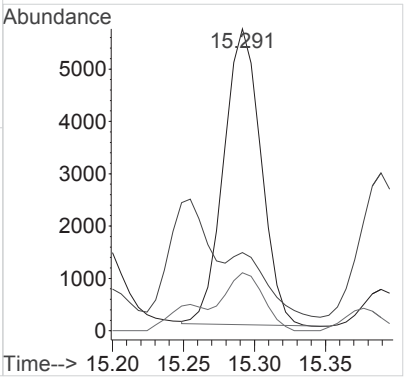


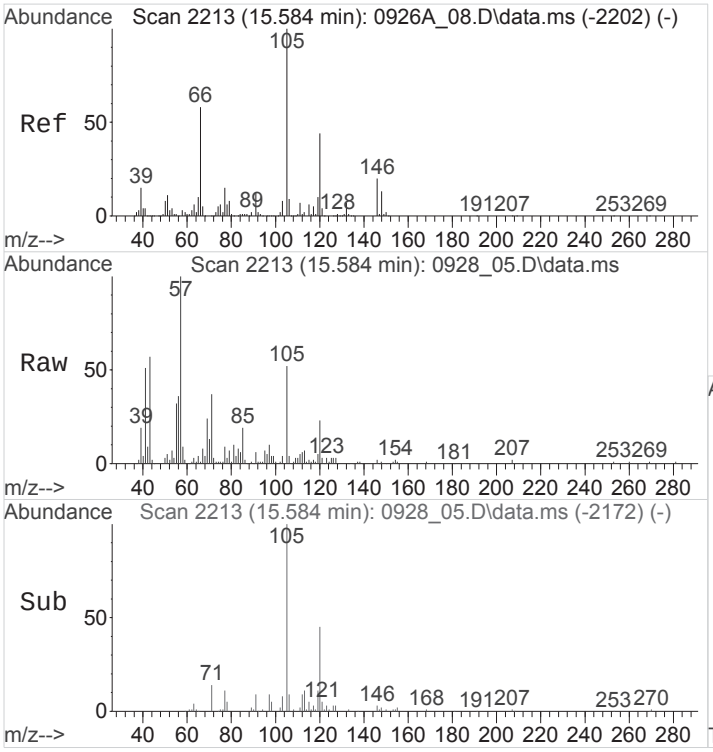


#73
sec-Butylbenzene
Concen: 0.2132114 ppbv
RT: 15.294 min Scan# 2165
Delta R.T. -0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 104045

Ion	Ratio	Lower	Upper
105	100		
91	64.8	12.2	18.2#
134	0.0	15.1	22.7#

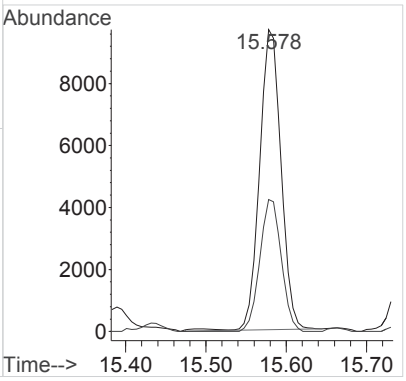


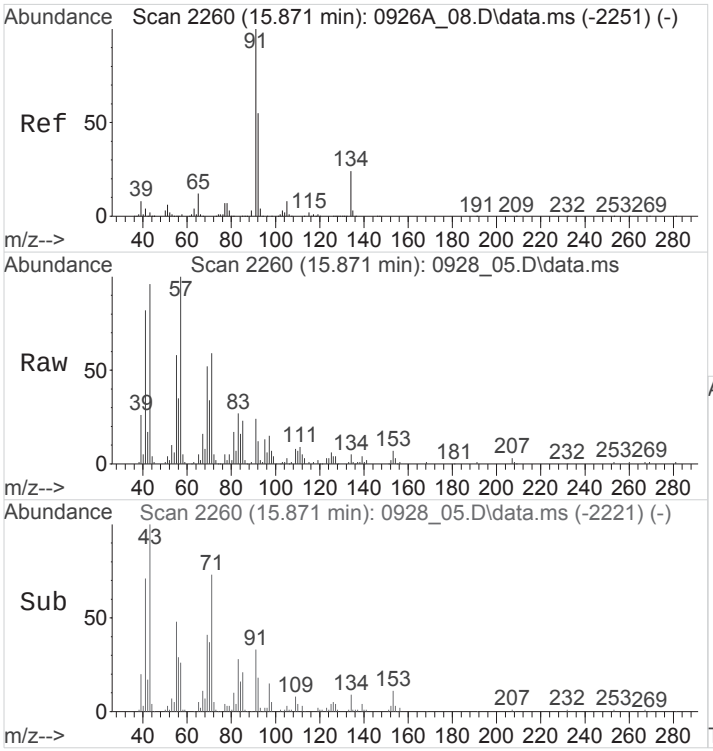


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.5610889 ppbv
RT: 15.583 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:105 Resp: 179513

Ion	Ratio	Lower	Upper
105	100		
120	44.0	34.6	52.0

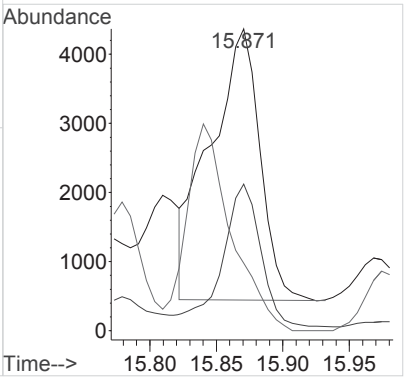


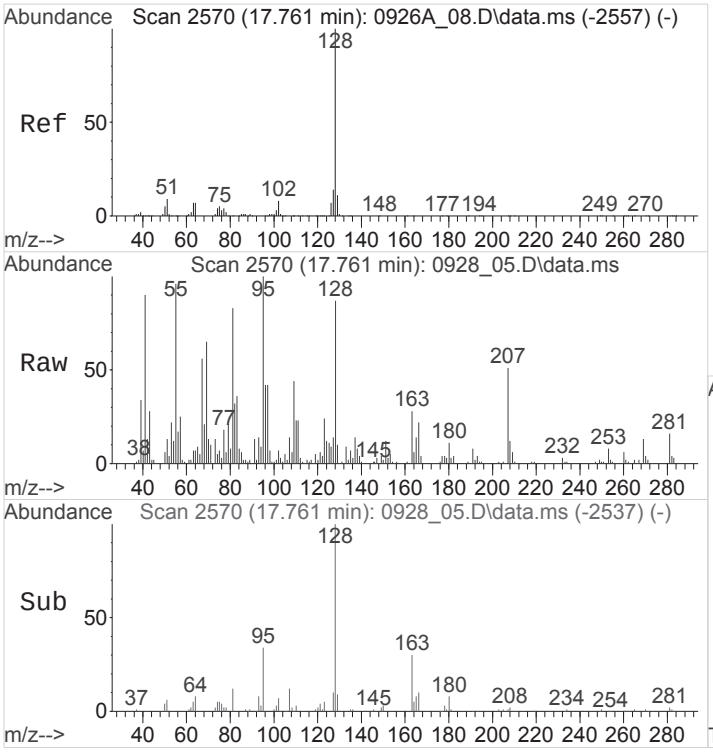


#79
n-Butylbenzene
Concen: 0.2947660 ppbv
RT: 15.872 min Scan# 2260
Delta R.T. -0.001 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion: 91 Resp: 105782

Ion	Ratio	Lower	Upper
91	100		
92	39.4	43.8	65.8#
134	65.5	19.4	29.0#

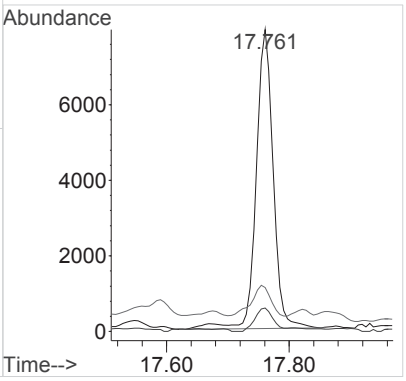


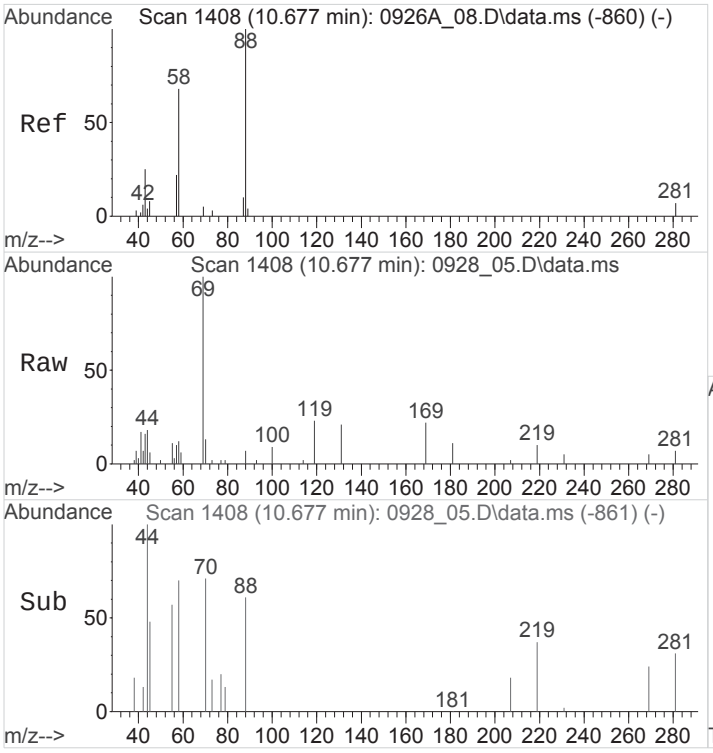


#83
Naphthalene
Concen: 0.9099758 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:128 Resp: 153051

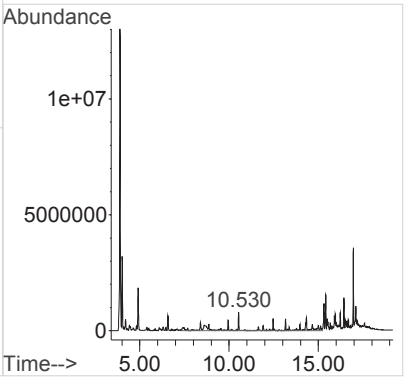
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 313.6024717 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_05.D
Acq: 28 Sep 2016 9:59 am

Tgt Ion:TIC Resp:206260859



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_06.D
Acq On : 28 Sep 2016 10:44 am
Operator : 564
Sample : L861822-02 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:14:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

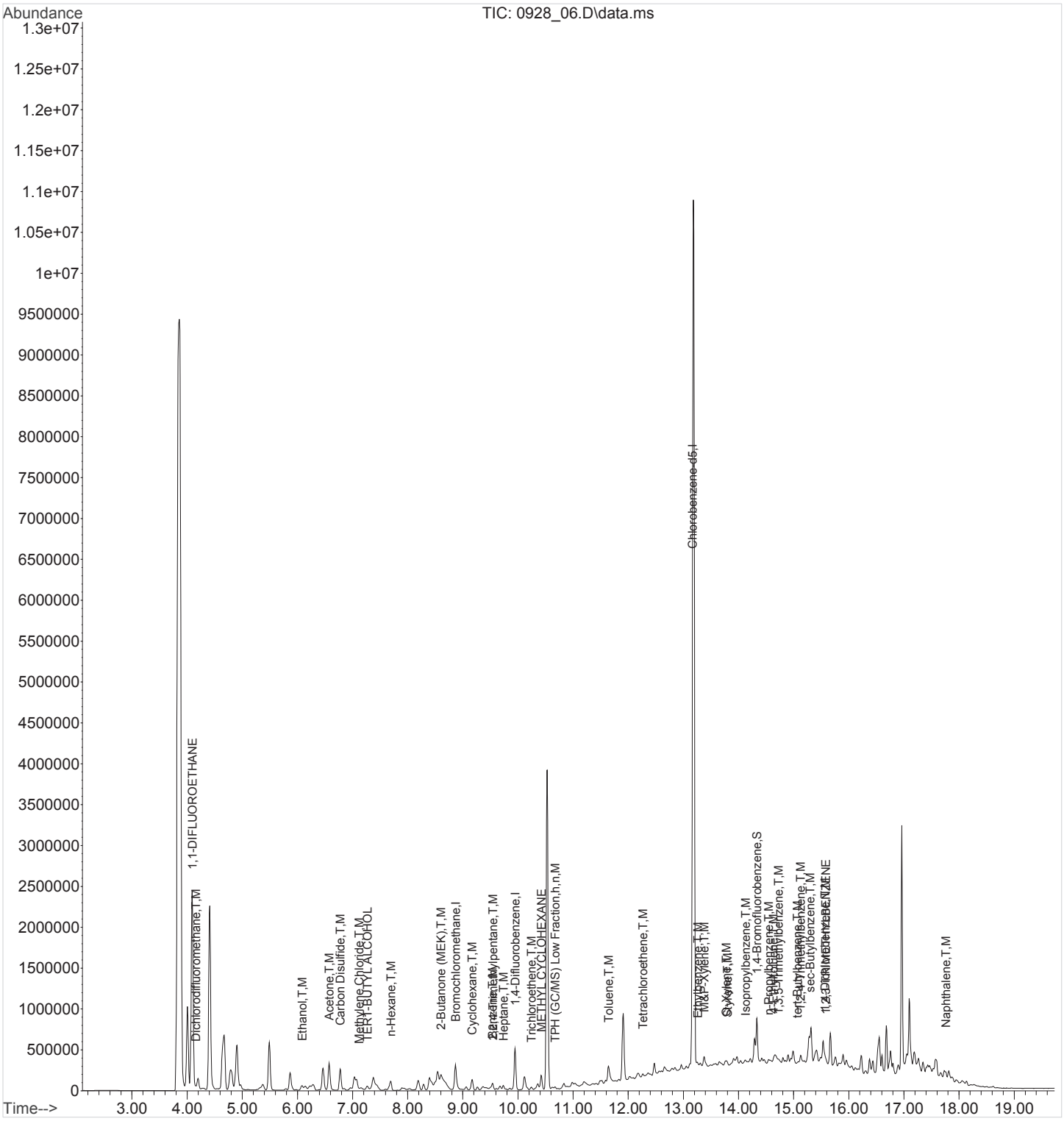
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.869	130	1097618	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.950	114	4491549	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	3057069	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.334	95	1981889	4.1728385	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 104.32%			
Target Compounds						Qvalue
3) 1,1-DIFLUOROETHANE	4.101	65	232730	3.8733903	ppbv	99
4) Dichlorodifluoromethane	4.158	85	68451	0.3771647	ppbv	99
14) Ethanol	6.085	45	460347	29.0956972	ppbv	99
17) Acetone	6.577	43	5216553	18.4716172	ppbv	99
19) Carbon Disulfide	6.779	76	4293651	17.5460995	ppbv	94
21) Methylene Chloride	7.125	49	129455	1.1158691	ppbv #	90
22) TERT-BUTYL ALCOHOL	7.269	59	920946	4.3510354	ppbv	98
25) n-Hexane	7.695	57	597420	4.0020643	ppbv #	46
29) 2-Butanone (MEK)	8.607	72	177164	4.0505819	ppbv #	43
33) Cyclohexane	9.173	84	217822	1.7380988	ppbv #	1
36) 2,2,4-Trimethylpentane	9.546	57	293645	0.5886461	ppbv #	44
38) Benzene	9.538	78	380156	1.2985750	ppbv	98
40) Heptane	9.736	43	360288	1.7822203	ppbv #	87
41) Trichloroethene	10.243	95	141893	1.2442792	ppbv	82
43) METHYL CYCLOHEXANE	10.425	83	407173	2.5196334	ppbv #	58
50) Toluene	11.643	91	1631642	4.6727968	ppbv	100
53) Tetrachloroethene	12.268	166	136322	0.9251646	ppbv	96
59) Ethylbenzene	13.260	91	200310	0.5440085	ppbv #	44
60) M&P-Xylene	13.377	91	509036	1.8292749	ppbv	99
61) O-Xylene	13.780	91	158414	0.5590851	ppbv	99
62) Styrene	13.797	104	62603	0.3071645	ppbv #	74
64) Isopropylbenzene	14.128	105	213659	0.5486433	ppbv #	87
66) n-Propylbenzene	14.547	91	240999	0.5215025	ppbv	100
67) 4-Ethyltoluene	14.634	105	228535	0.6065267	ppbv	100
70) 1,3,5-Trimethylbenzene	14.726	105	72035	0.2265606	ppbv #	27
71) tert-Butylbenzene	15.063	119	79677	0.2591172	ppbv #	85
72) 1,2,4-Trimethylbenzene	15.126	105	235262	0.7497413	ppbv	100
73) sec-Butylbenzene	15.296	105	146906	0.3025063	ppbv #	48
75) 1,4-Dichlorobenzene	15.572	146	66711	0.4052297	ppbv #	37
76) 1,2,3-TRIMETHYLBENZENE	15.584	105	88456	0.2778215	ppbv	98
83) Naphthalene	17.763	128	157276	0.9396390	ppbv #	84
84) TPH (GC/MS) Low Fraction	10.675	TIC	997568980m	1524.0882306	ppbv	

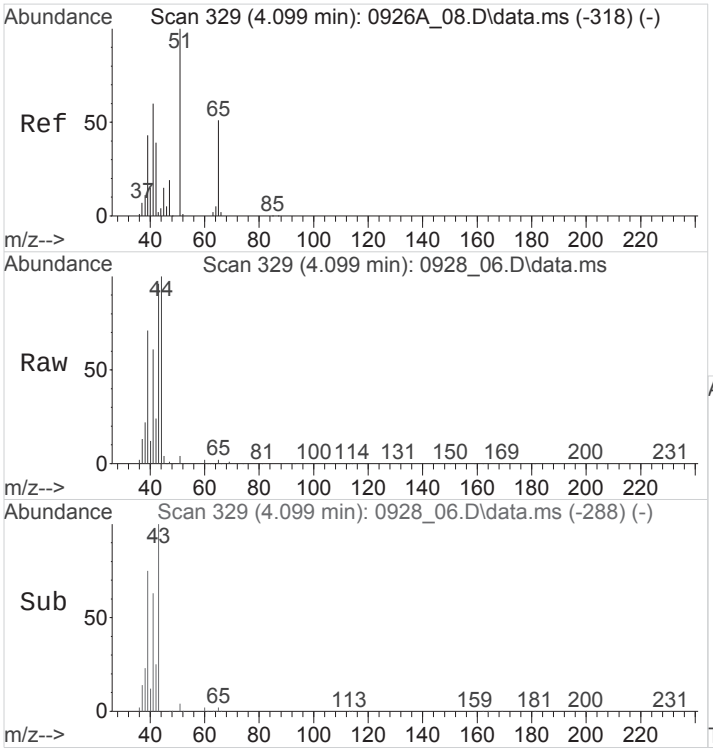
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_06.D
Acq On : 28 Sep 2016 10:44 am
Operator : 564
Sample : L861822-02 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:14:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

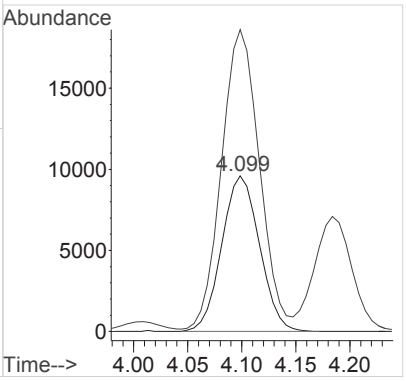


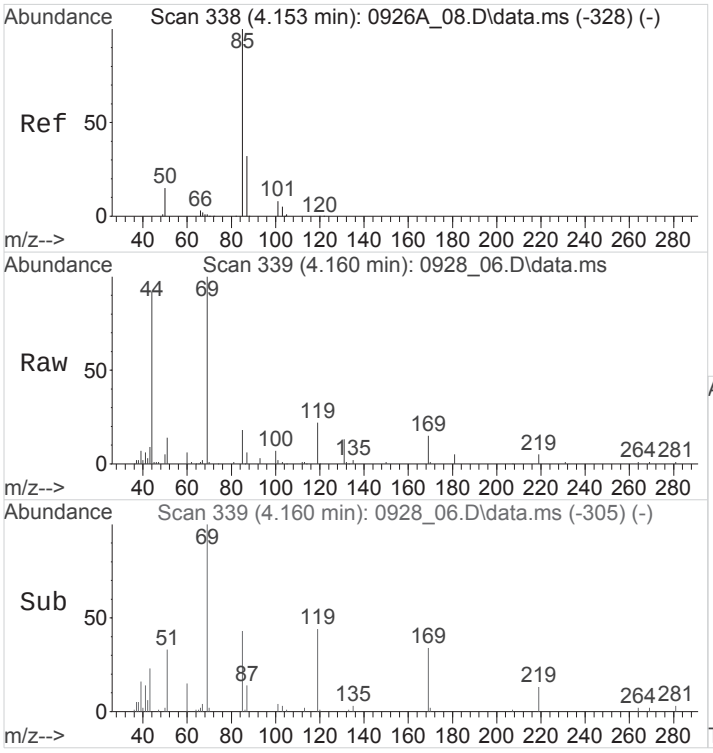


#3
1,1-DIFLUOROETHANE
Concen: 3.8733903 ppbv
RT: 4.101 min Scan# 329
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 65 Resp: 232730

Ion	Ratio	Lower	Upper
65	100		
51	191.9	154.7	232.1

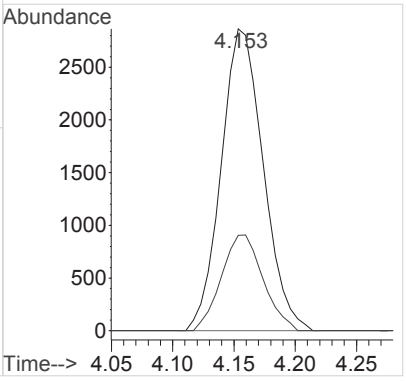


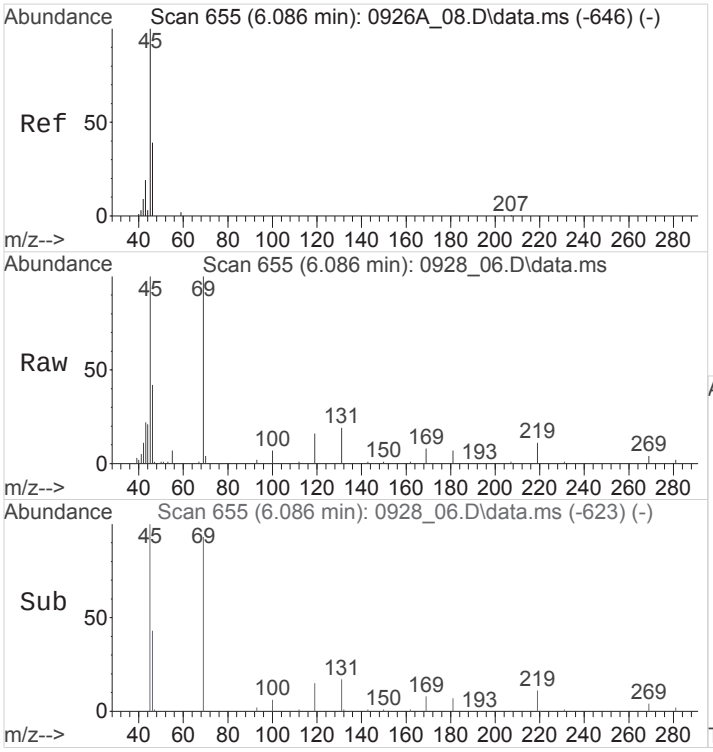


#4
Dichlorodifluoromethane
Concen: 0.3771647 ppbv
RT: 4.158 min Scan# 339
Delta R.T. 0.006 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 85 Resp: 68451

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.8	38.6

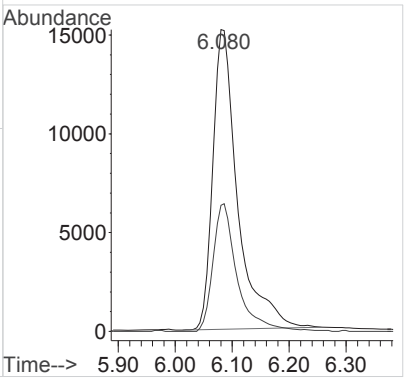


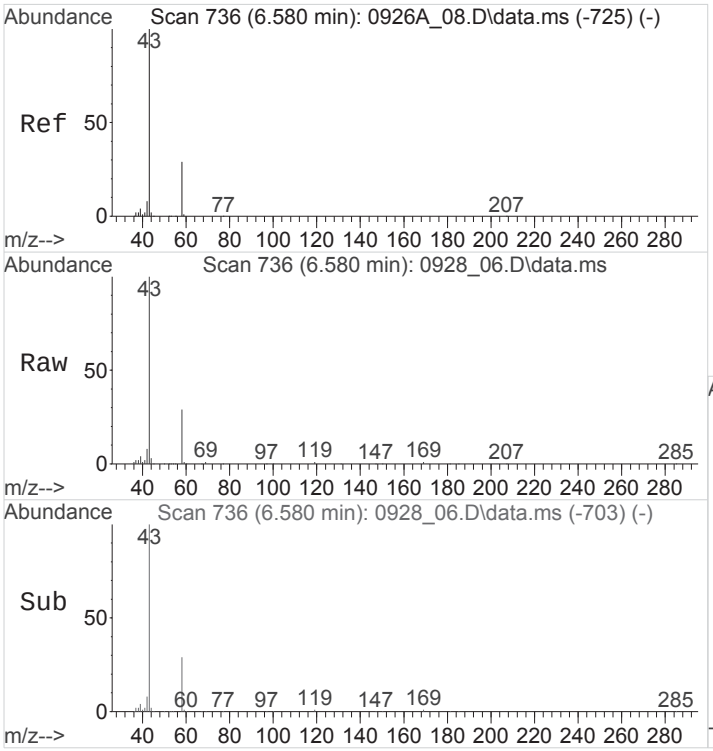


#14
Ethanol
Concen: 29.0956972 ppbv
RT: 6.085 min Scan# 655
Delta R.T. -0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 45 Resp: 460347

Ion	Ratio	Lower	Upper
45	100		
46	40.6	33.0	49.4

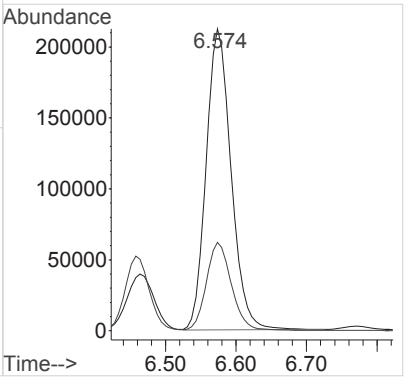


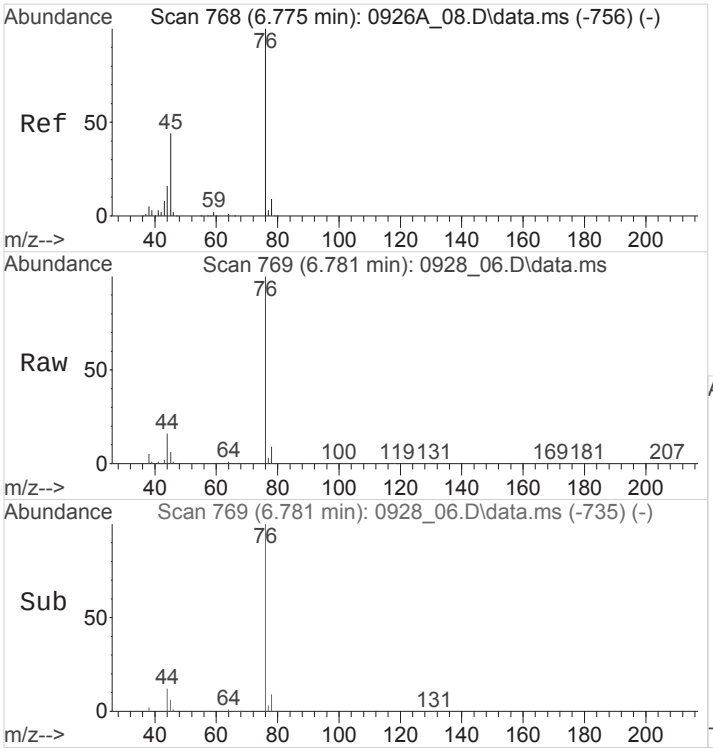


#17
Acetone
Concen: 18.4716172 ppbv
RT: 6.577 min Scan# 736
Delta R.T. -0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 43 Resp: 5216553

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.1	34.7

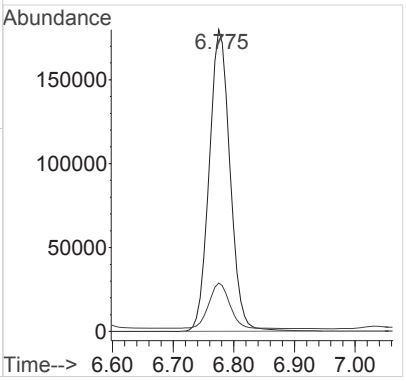


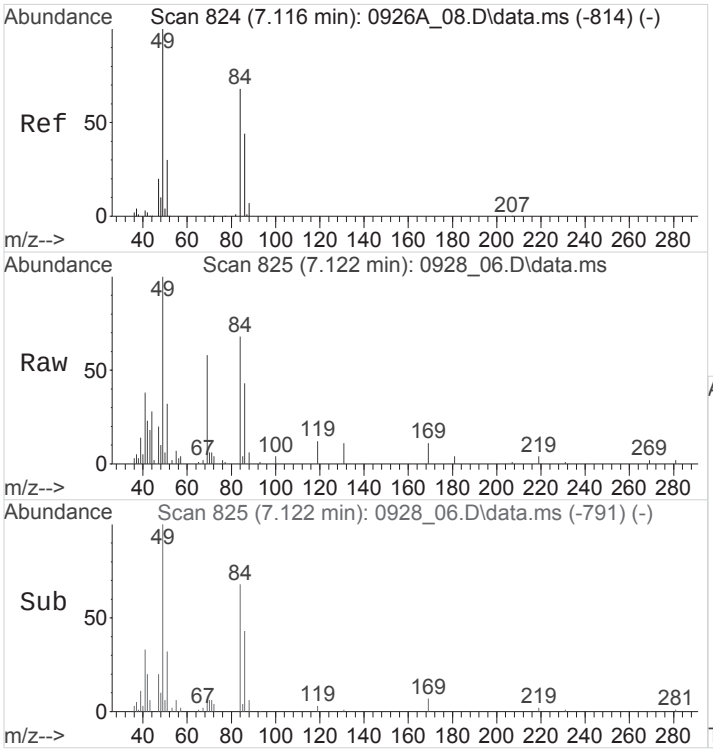


#19
Carbon Disulfide
Concen: 17.5460995 ppbv
RT: 6.779 min Scan# 769
Delta R.T. 0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 76 Resp: 4293651

Ion	Ratio	Lower	Upper
76	100		
44	15.0	14.2	21.2

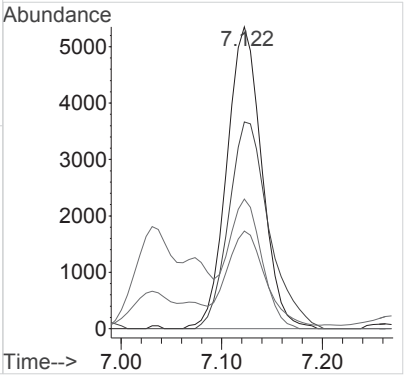


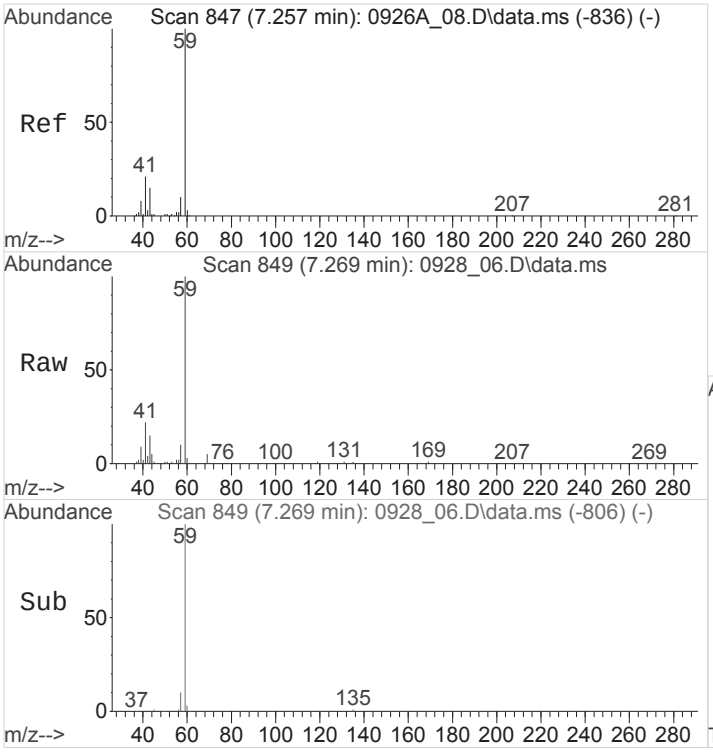


#21
Methylene Chloride
Concen: 1.1158691 ppbv
RT: 7.125 min Scan# 825
Delta R.T. 0.008 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 49 Resp: 129455

Ion	Ratio	Lower	Upper
49	100		
84	78.8	54.2	81.2
86	43.2	35.1	52.7
51	23.7	24.5	36.7#

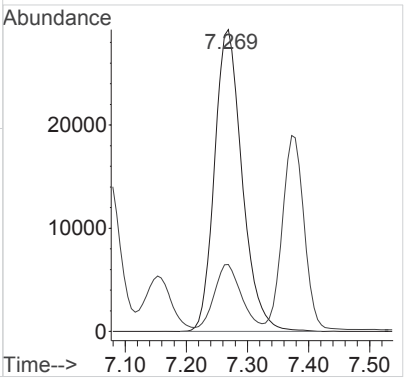


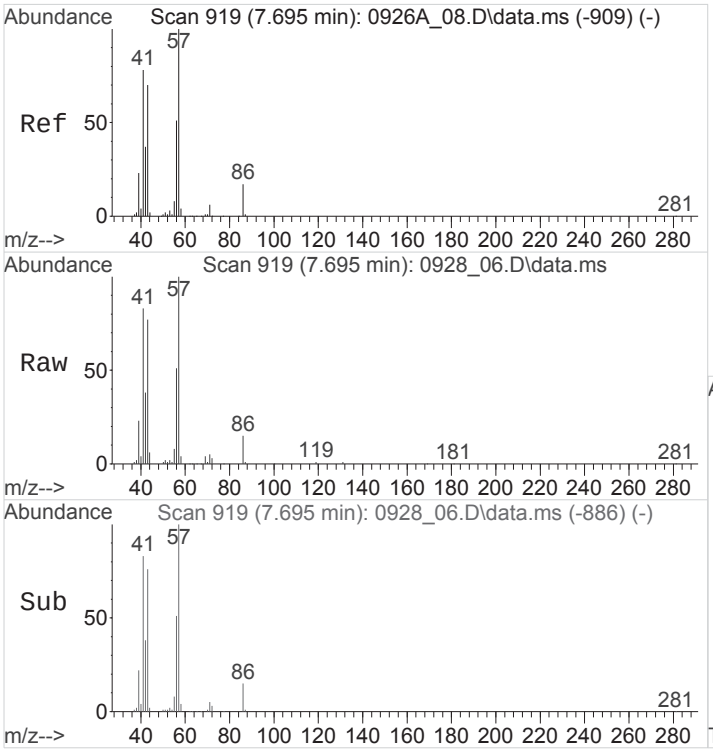


#22
TERT-BUTYL ALCOHOL
Concen: 4.3510354 ppbv
RT: 7.269 min Scan# 849
Delta R.T. 0.014 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 59 Resp: 920946

Ion	Ratio	Lower	Upper
59	100		
41	19.7	16.5	24.7

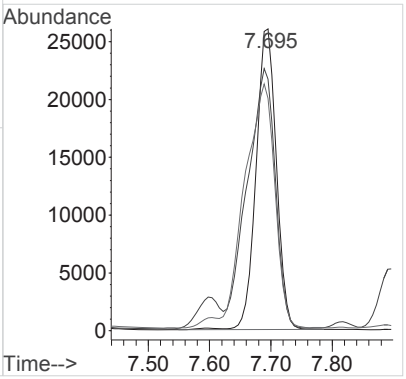


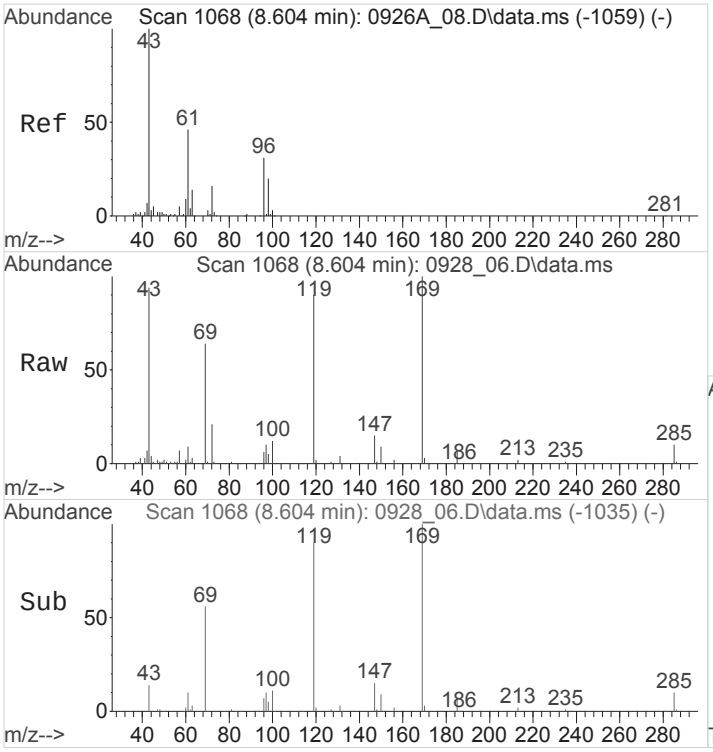


#25
n-Hexane
Concen: 4.0020643 ppbv
RT: 7.695 min Scan# 919
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 57 Resp: 597420

Ion	Ratio	Lower	Upper
57	100		
41	119.3	63.2	94.8#
43	122.5	56.0	84.0#

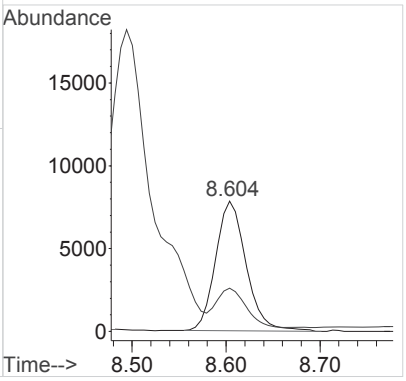


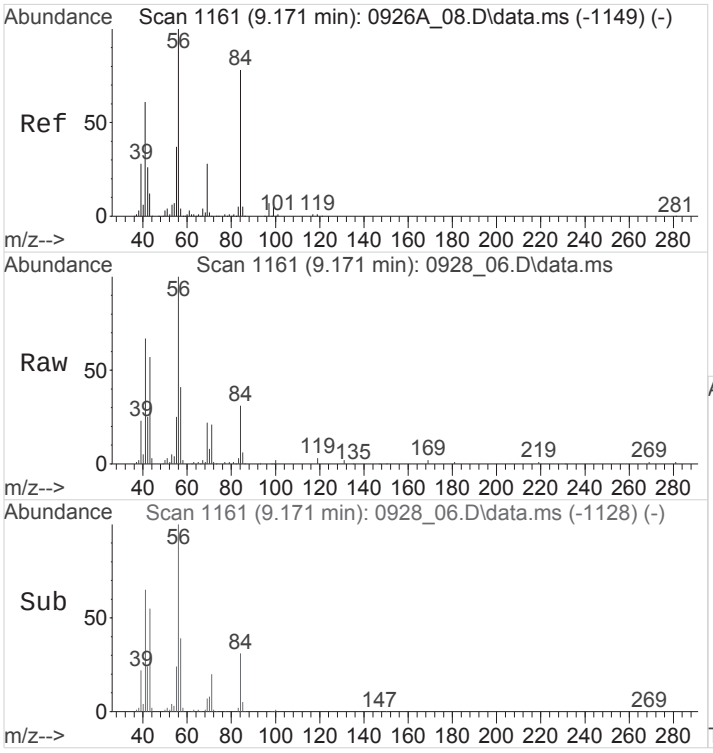


#29
2-Butanone (MEK)
Concen: 4.0505819 ppbv
RT: 8.607 min Scan# 1068
Delta R.T. 0.006 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 72 Resp: 177164

Ion	Ratio	Lower	Upper
72	100		
57	0.0	25.6	38.4#

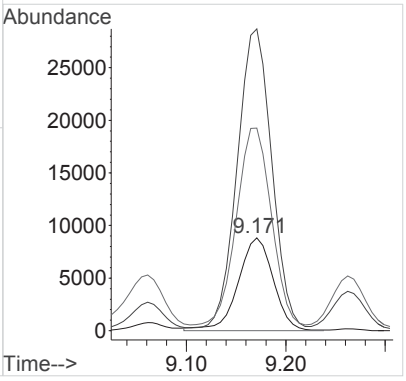


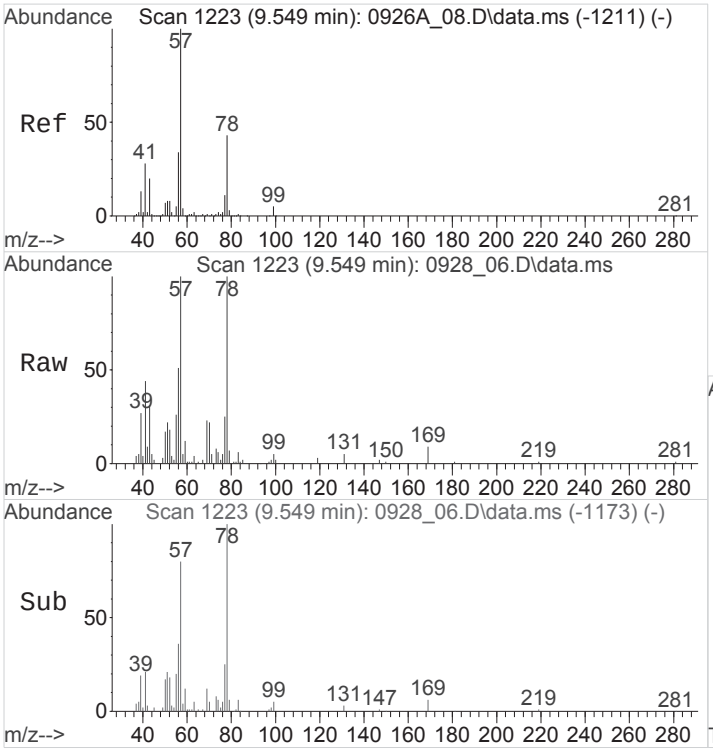


#33
Cyclohexane
Concen: 1.7380988 ppbv
RT: 9.173 min Scan# 1161
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 84 Resp: 217822

Ion	Ratio	Lower	Upper
84	100		
56	310.0	101.4	152.0#
41	206.7	62.1	93.1#

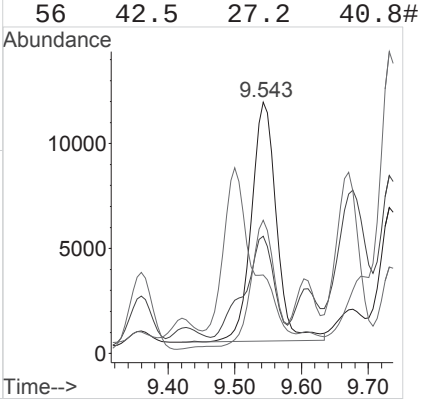


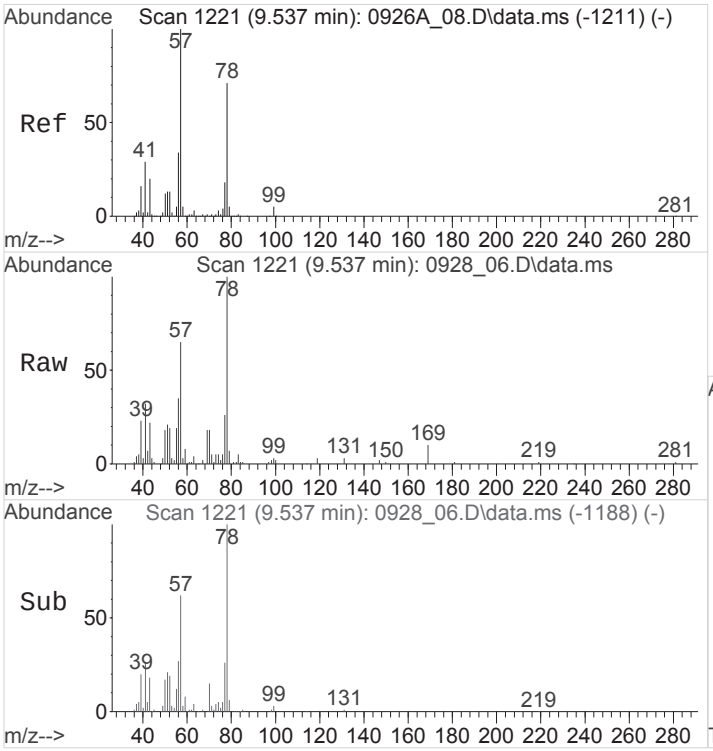


#36
2,2,4-Trimethylpentane
Concen: 0.5886461 ppbv
RT: 9.546 min Scan# 1223
Delta R.T. -0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 57 Resp: 293645

Ion	Ratio	Lower	Upper
57	100		
41	56.4	22.7	34.1#
43	79.6	16.6	25.0#
56	42.5	27.2	40.8#

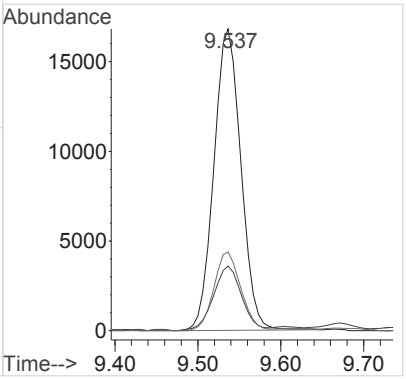


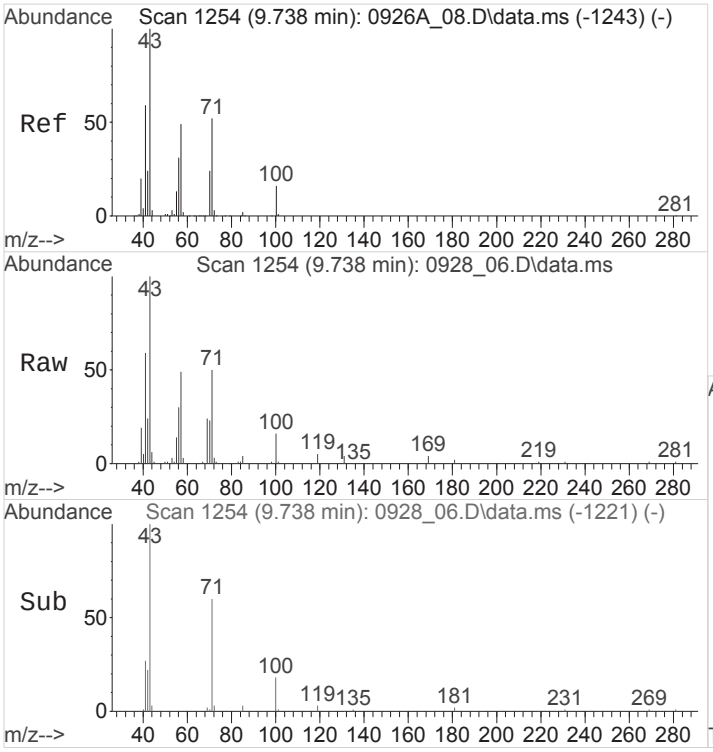


#38
Benzene
Concen: 1.2985750 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 78 Resp: 380156

Ion	Ratio	Lower	Upper
78	100		
51	20.9	15.4	23.0
77	25.3	19.9	29.9

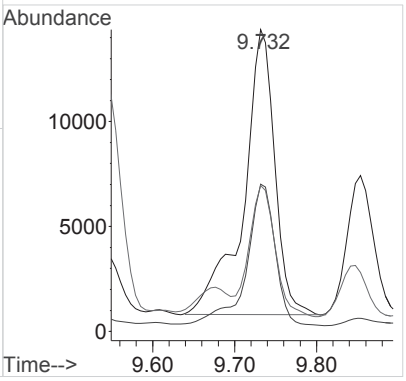


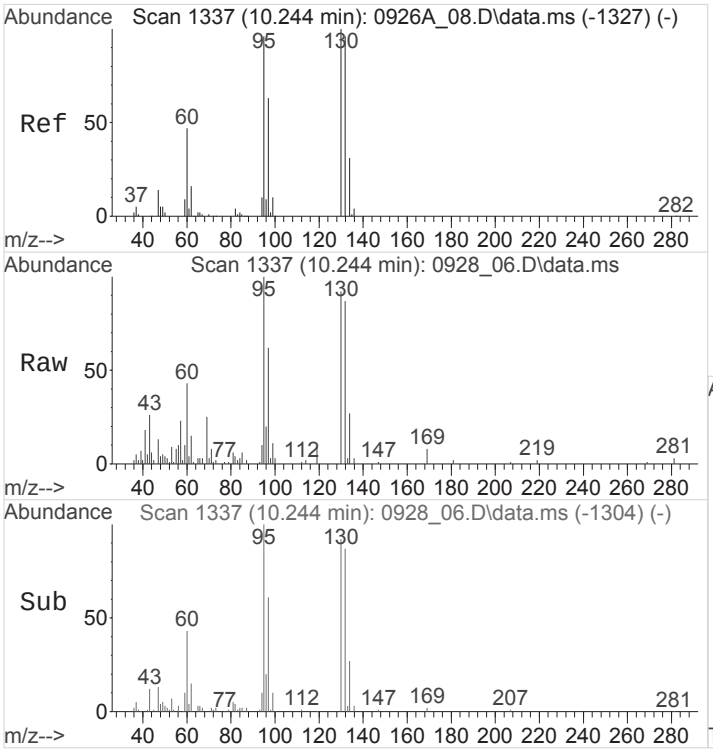


#40
Heptane
Concen: 1.7822203 ppbv
RT: 9.736 min Scan# 1254
Delta R.T. -0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 43 Resp: 360288

Ion	Ratio	Lower	Upper
43	100		
71	44.8	41.4	62.0
57	37.5	39.3	58.9#

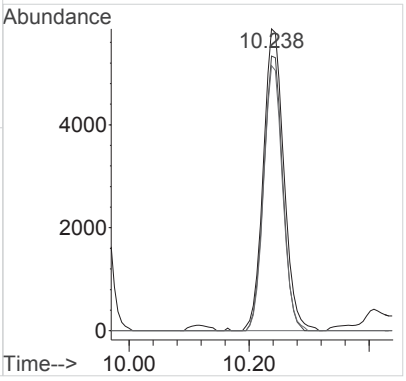


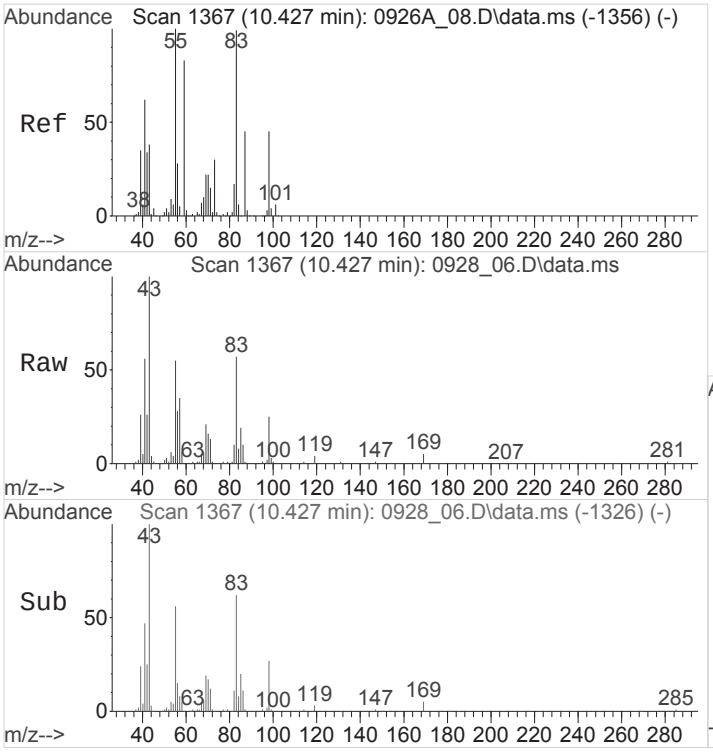


#41
Trichloroethene
Concen: 1.2442792 ppbv
RT: 10.243 min Scan# 1337
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 95 Resp: 141893

Ion	Ratio	Lower	Upper
95	100		
130	83.0	81.6	122.4
132	79.7	77.8	116.6

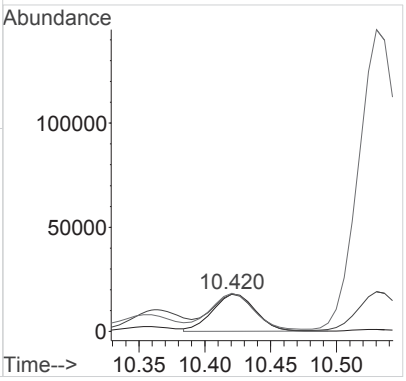


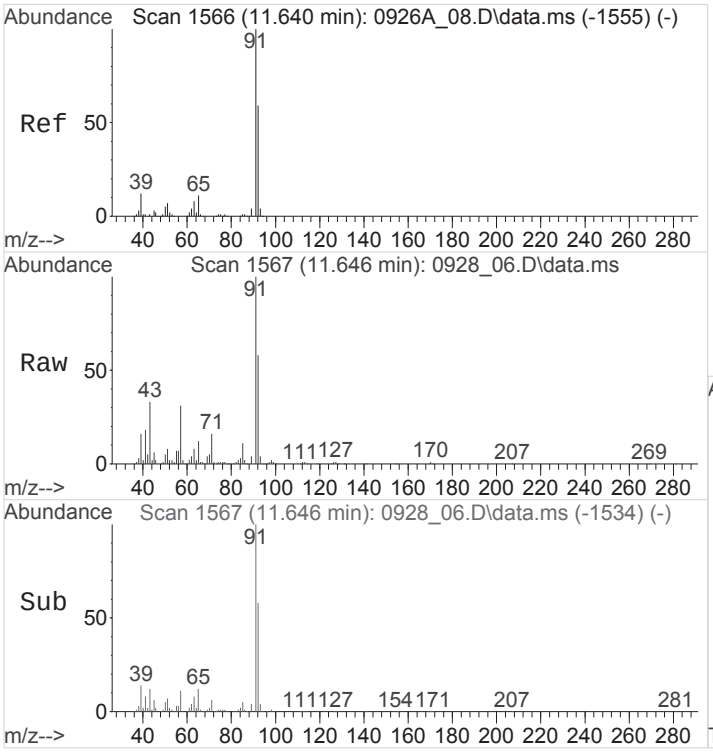


#43
METHYL CYCLOHEXANE
Concen: 2.5196334 ppbv
RT: 10.425 min Scan# 1367
Delta R.T. -0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 83 Resp: 407173

Ion	Ratio	Lower	Upper
83	100		
55	99.1	91.4	137.0
41	0.0	56.8	85.2#

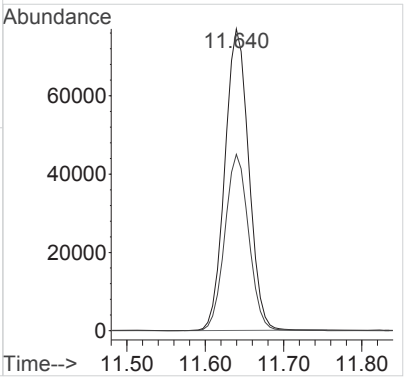


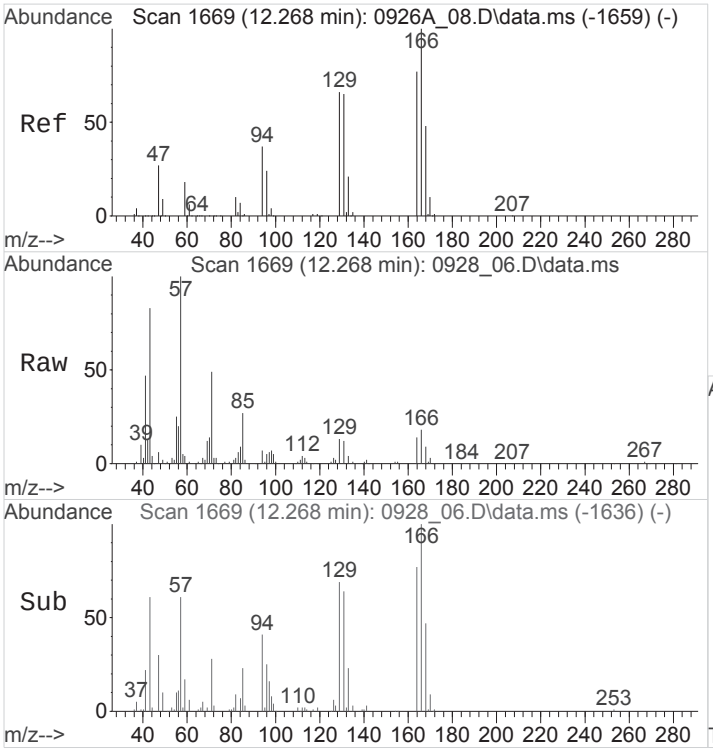


#50
Toluene
Concen: 4.6727968 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 91 Resp: 1631642

Ion	Ratio	Lower	Upper
91	100		
92	58.4	46.6	70.0

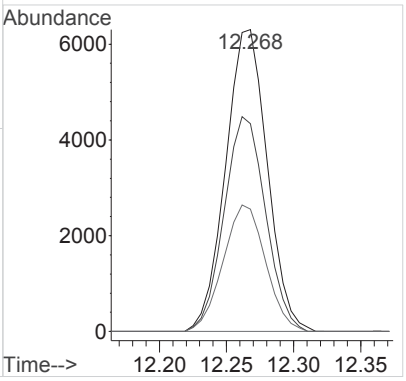


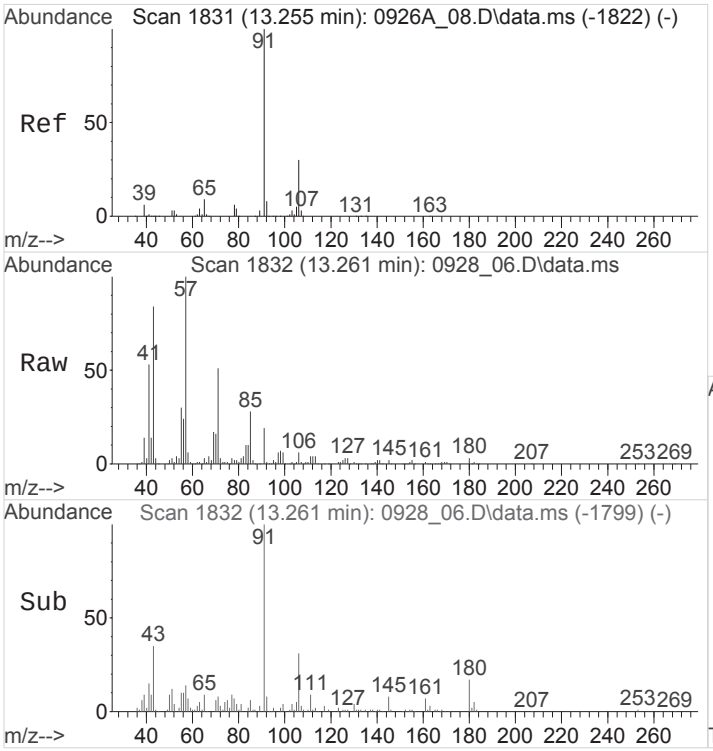


#53
Tetrachloroethene
Concen: 0.9251646 ppbv
RT: 12.268 min Scan# 1669
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:166 Resp: 136322

Ion	Ratio	Lower	Upper
166	100		
129	70.7	55.0	82.6
94	42.6	31.3	46.9

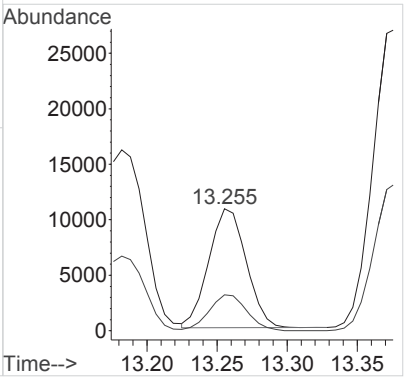


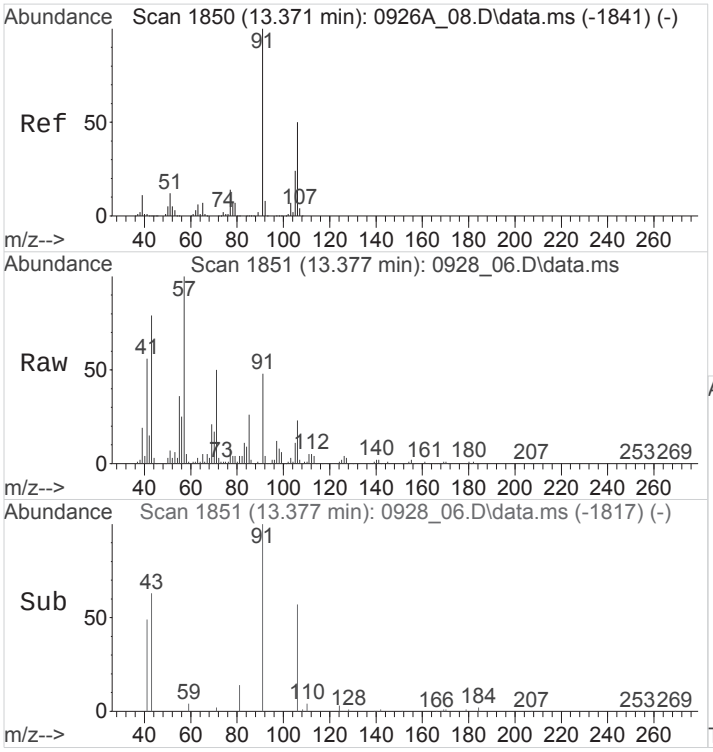


#59
Ethylbenzene
Concen: 0.5440085 ppbv
RT: 13.260 min Scan# 1832
Delta R.T. 0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 91 Resp: 200310

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

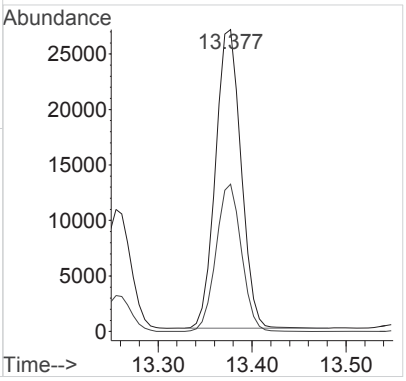


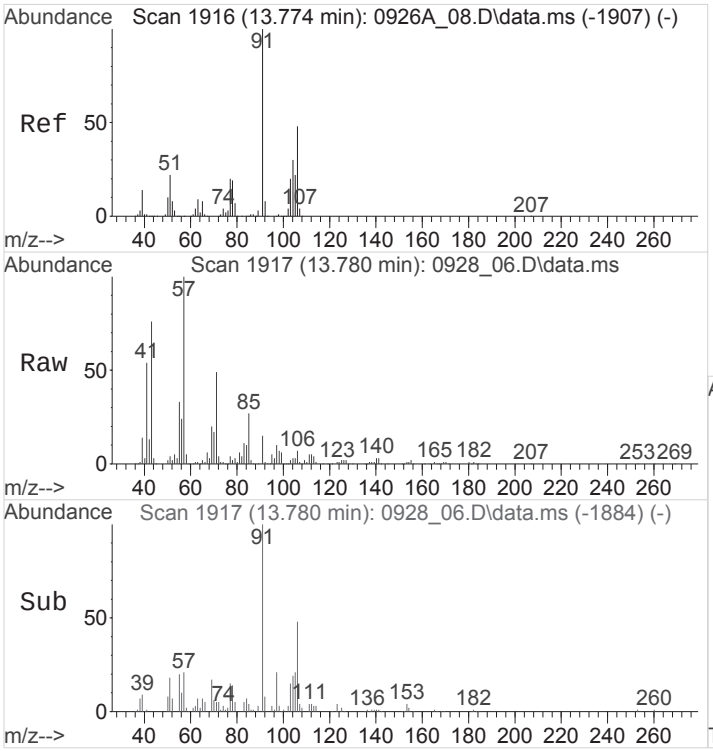


#60
M&P-Xylene
Concen: 1.8292749 ppbv
RT: 13.377 min Scan# 1851
Delta R.T. 0.005 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 91 Resp: 509036

Ion	Ratio	Lower	Upper
91	100		
106	49.0	39.8	59.6

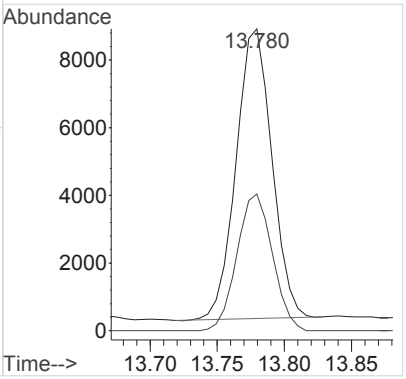


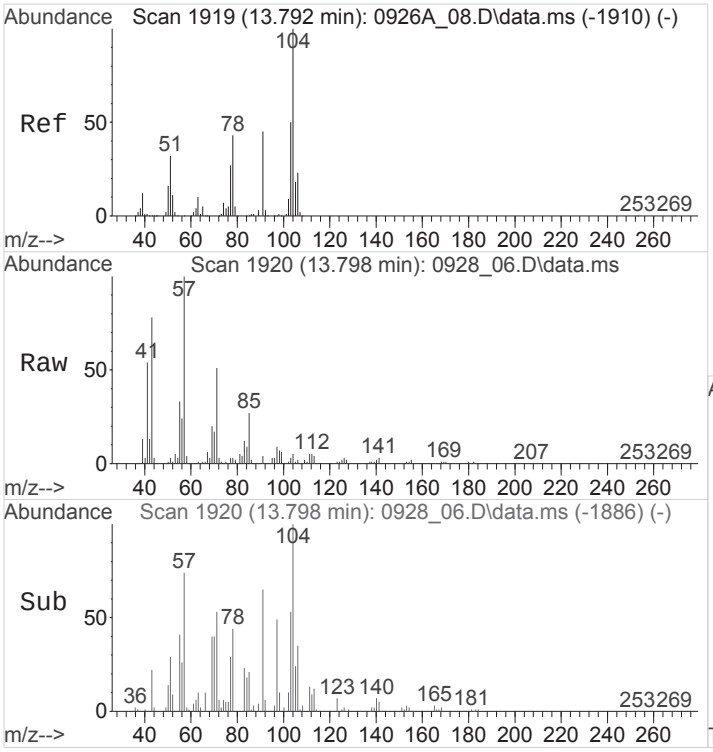


#61
O-Xylene
Concen: 0.5590851 ppbv
RT: 13.780 min Scan# 1917
Delta R.T. 0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 91 Resp: 158414

Ion	Ratio	Lower	Upper
91	100		
106	46.8	38.2	57.2

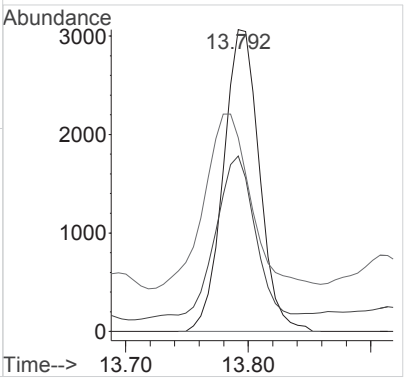


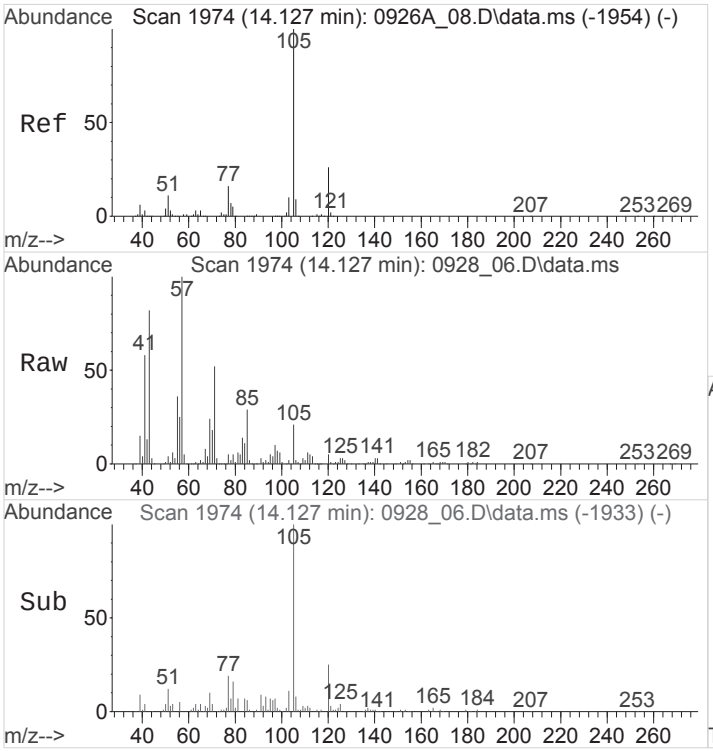


#62
Styrene
Concen: 0.3071645 ppbv
RT: 13.797 min Scan# 1920
Delta R.T. 0.005 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:104 Resp: 62603

Ion	Ratio	Lower	Upper
104	100		
78	56.7	39.0	58.6
51	71.7	35.2	52.8#

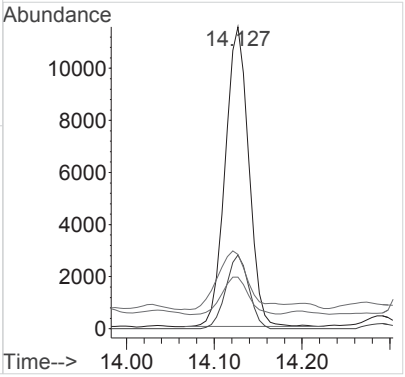


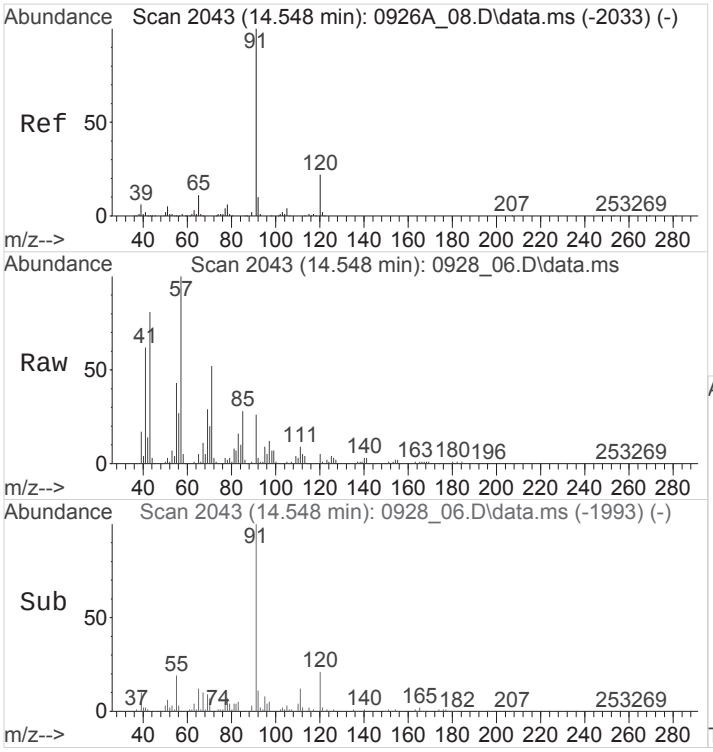


#64
Isopropylbenzene
Concen: 0.5486433 ppbv
RT: 14.128 min Scan# 1974
Delta R.T. 0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 213659

Ion	Ratio	Lower	Upper
105	100		
120	24.1	20.7	31.1
77	22.6	13.0	19.4#
51	0.0	9.4	14.0#

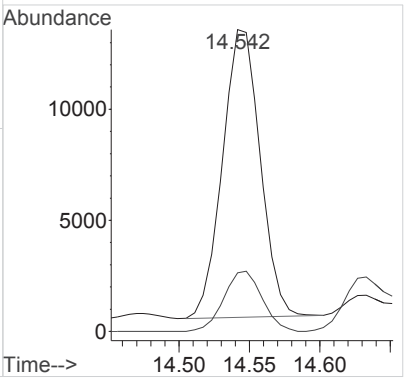


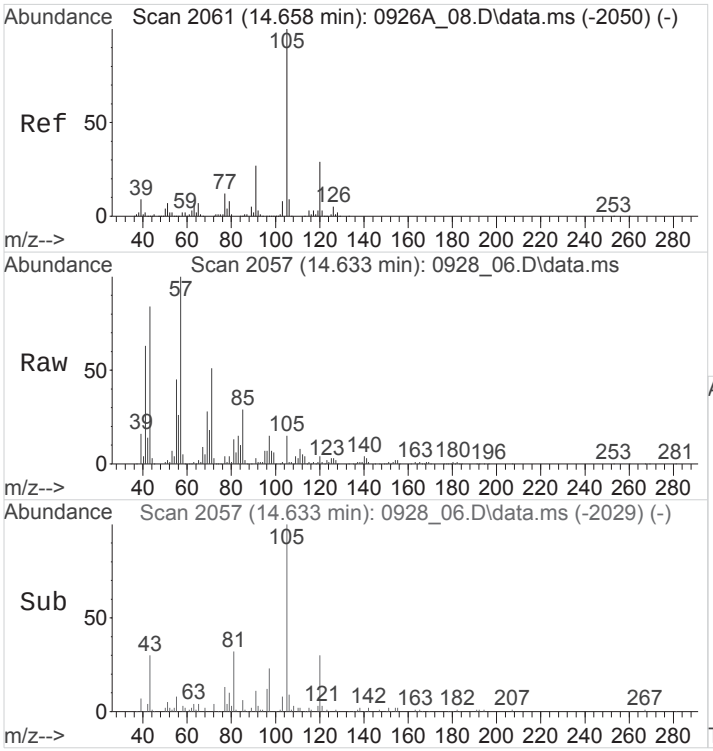


#66
n-Propylbenzene
Concen: 0.5215025 ppbv
RT: 14.547 min Scan# 2043
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion: 91 Resp: 240999

Ion	Ratio	Lower	Upper
91	100		
120	21.2	17.1	25.7

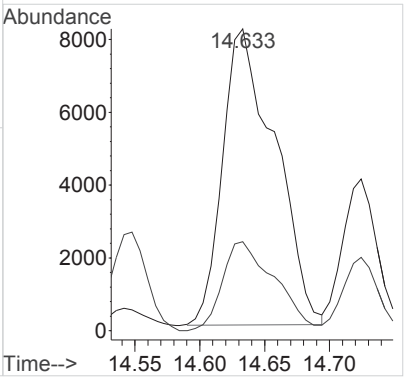


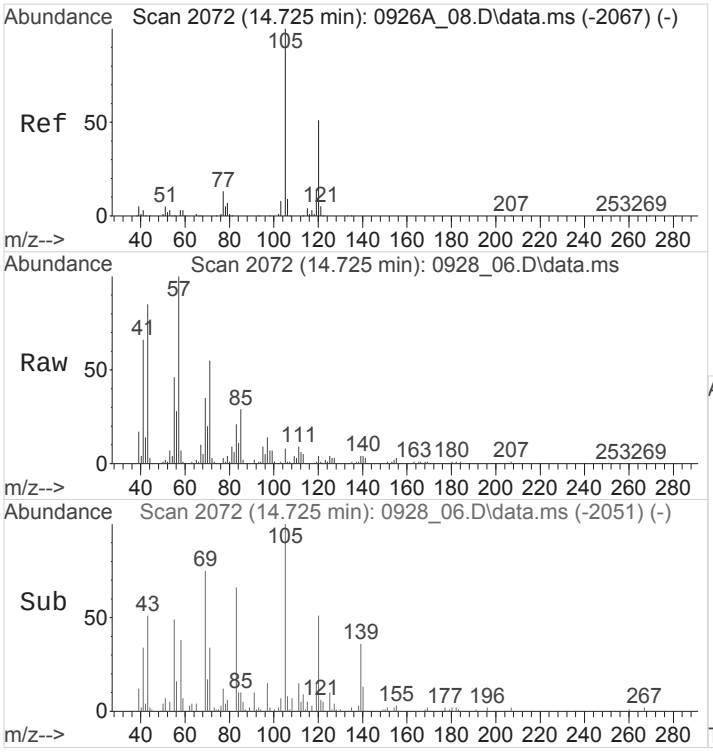


#67
4-Ethyltoluene
Concen: 0.6065267 ppbv
RT: 14.634 min Scan# 2057
Delta R.T. -0.026 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 228535

Ion	Ratio	Lower	Upper
105	100		
120	29.2	23.2	34.8

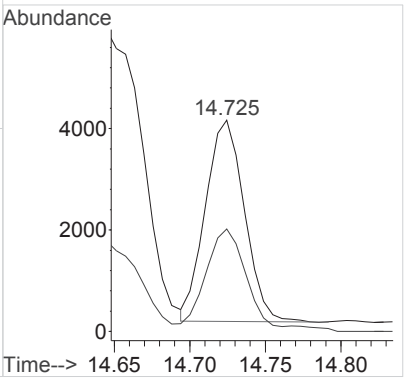


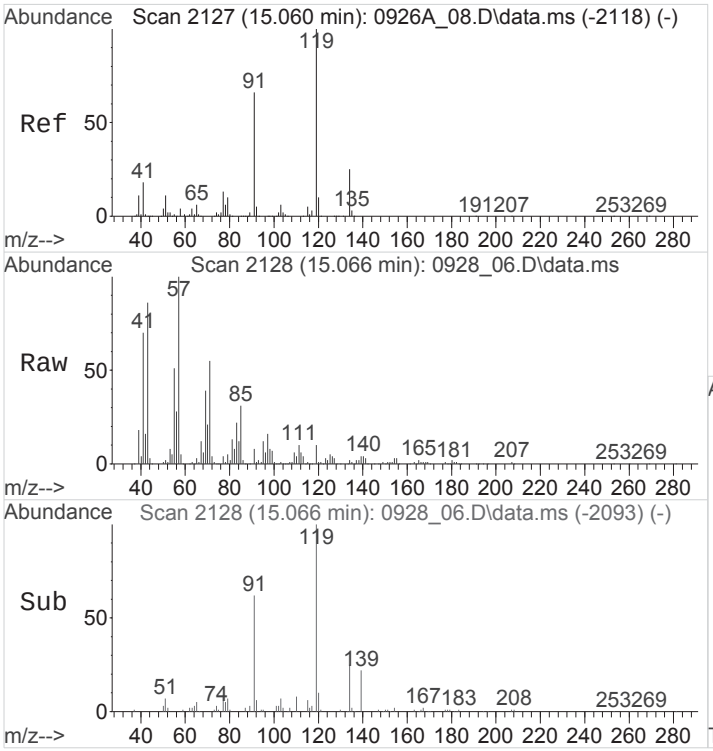


#70
1,3,5-Trimethylbenzene
Concen: 0.2265606 ppbv
RT: 14.726 min Scan# 2072
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 72035

Ion	Ratio	Lower	Upper
105	100		
120	0.0	40.2	60.4#

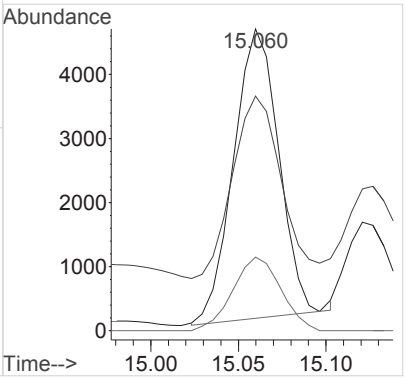


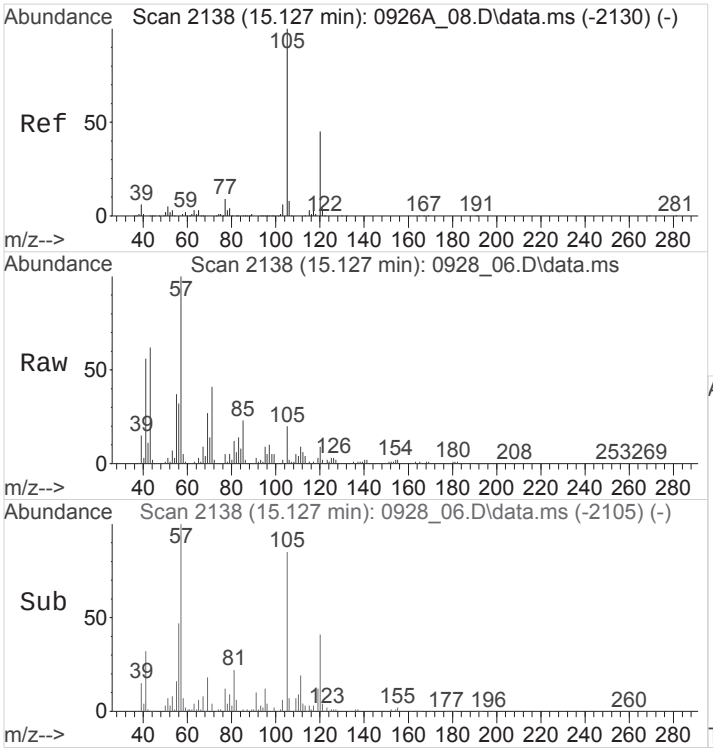


#71
tert-Butylbenzene
Concen: 0.2591172 ppbv
RT: 15.063 min Scan# 2128
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:119 Resp: 79677

Ion	Ratio	Lower	Upper
119	100		
91	61.2	50.2	75.4
134	0.0	19.7	29.5#

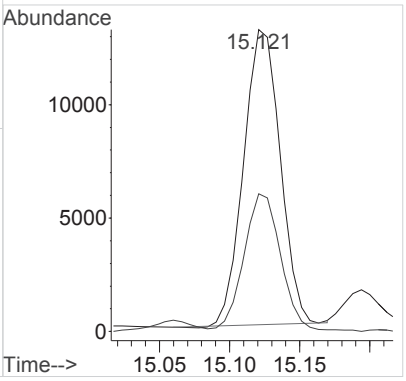


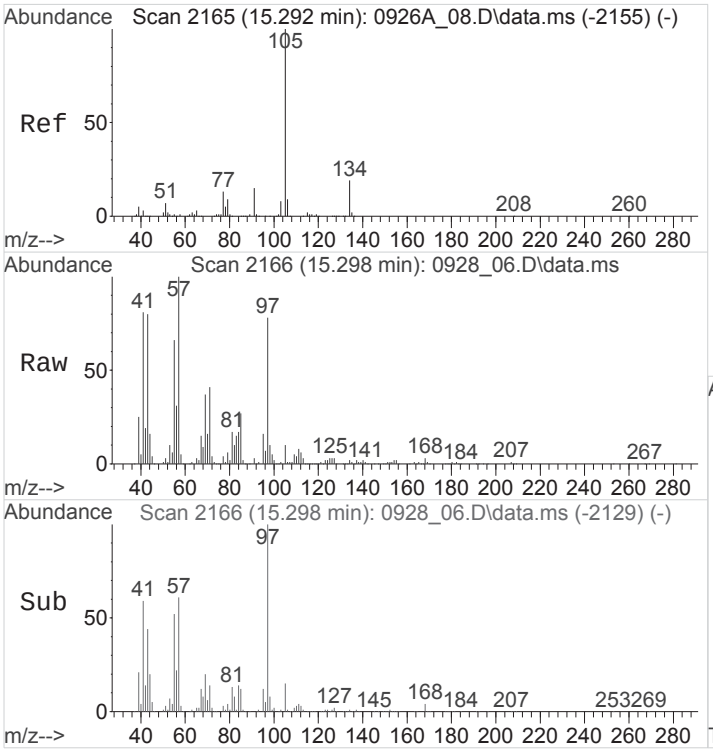


#72
1,2,4-Trimethylbenzene
Concen: 0.7497413 ppbv
RT: 15.126 min Scan# 2138
Delta R.T. 0.002 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 235262

Ion	Ratio	Lower	Upper
105	100		
120	47.2	37.5	56.3

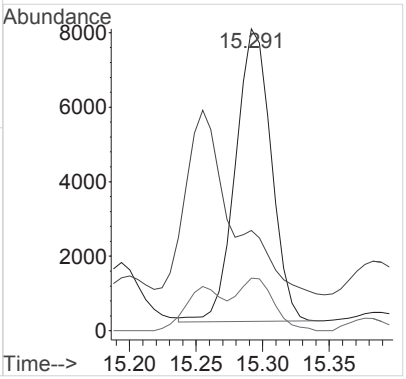


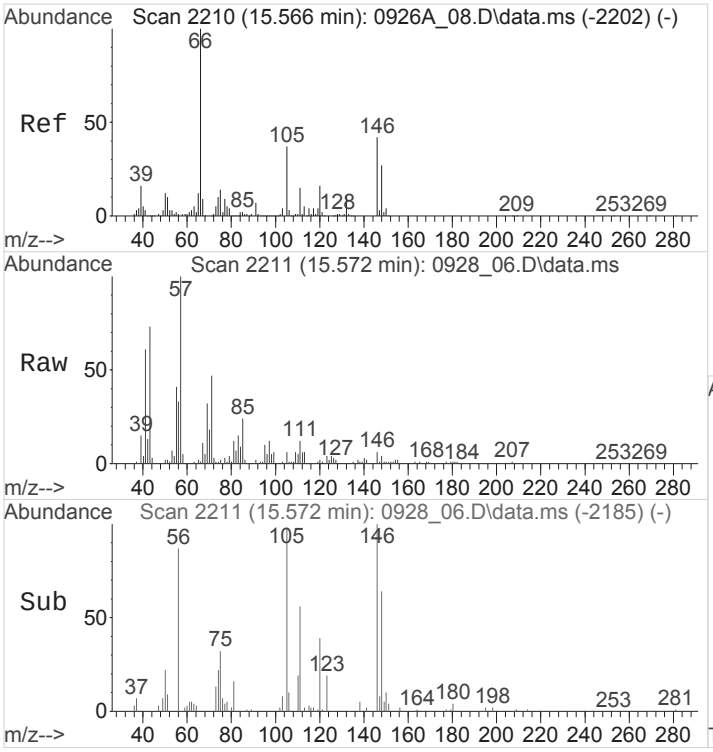


#73
sec-Butylbenzene
Concen: 0.3025063 ppbv
RT: 15.296 min Scan# 2166
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 146906

Ion	Ratio	Lower	Upper
105	100		
91	42.4	12.2	18.2#
134	0.0	15.1	22.7#

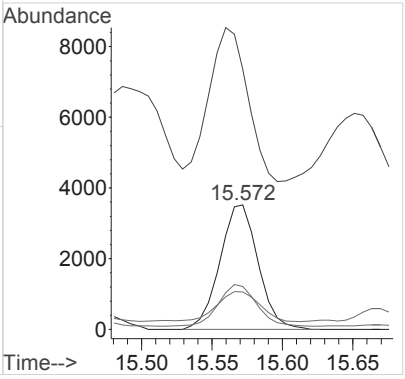


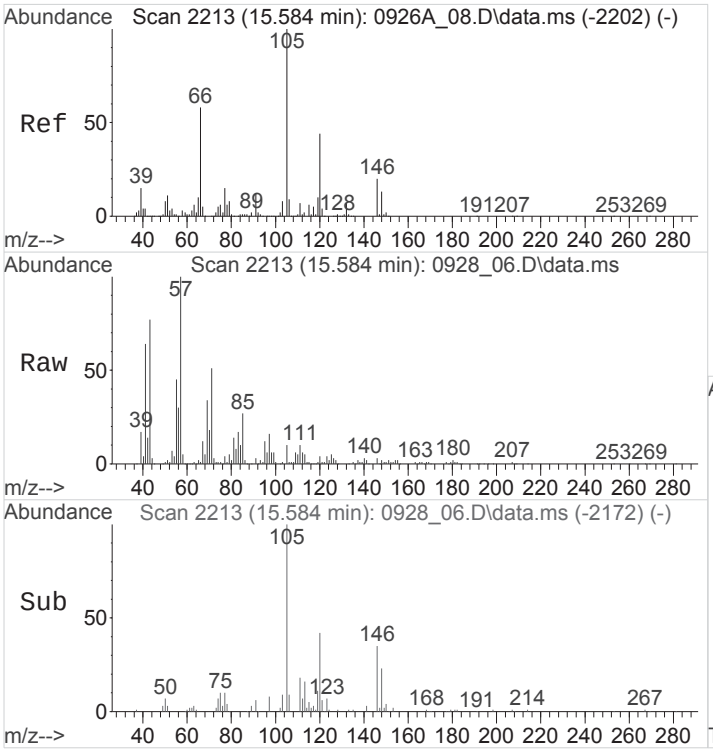


#75
1,4-Dichlorobenzene
Concen: 0.4052297 ppbv
RT: 15.572 min Scan# 2211
Delta R.T. 0.006 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:146 Resp: 66711

Ion	Ratio	Lower	Upper
146	100		
111	121.1	31.2	46.8#
75	33.0	24.4	36.6
50	26.5	16.2	24.4#

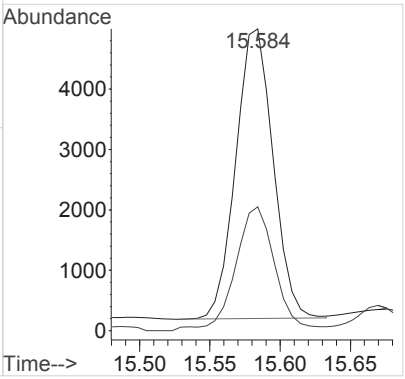


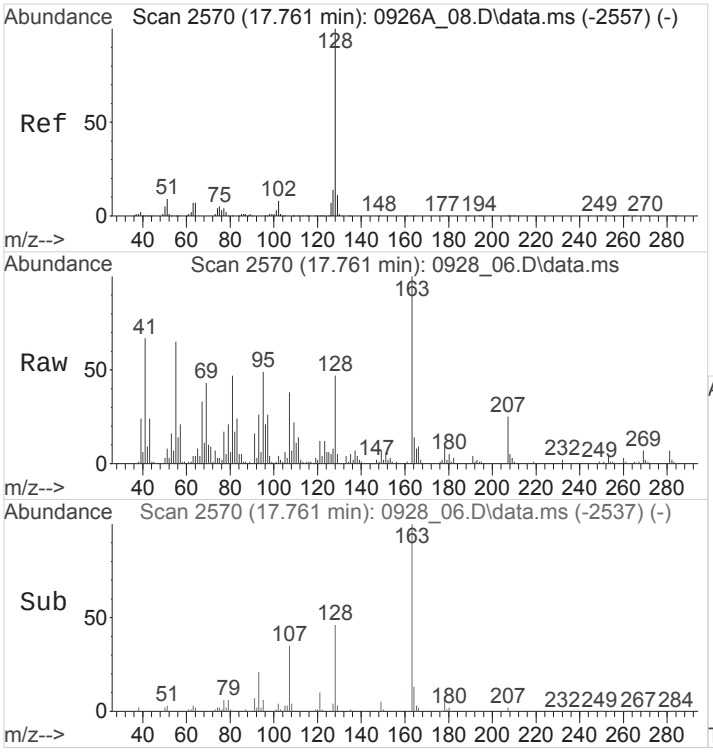


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.2778215 ppbv
RT: 15.584 min Scan# 2213
Delta R.T. 0.001 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:105 Resp: 88456

Ion	Ratio	Lower	Upper
105	100		
120	41.8	34.6	52.0

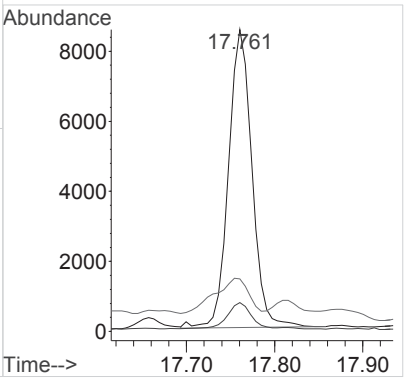


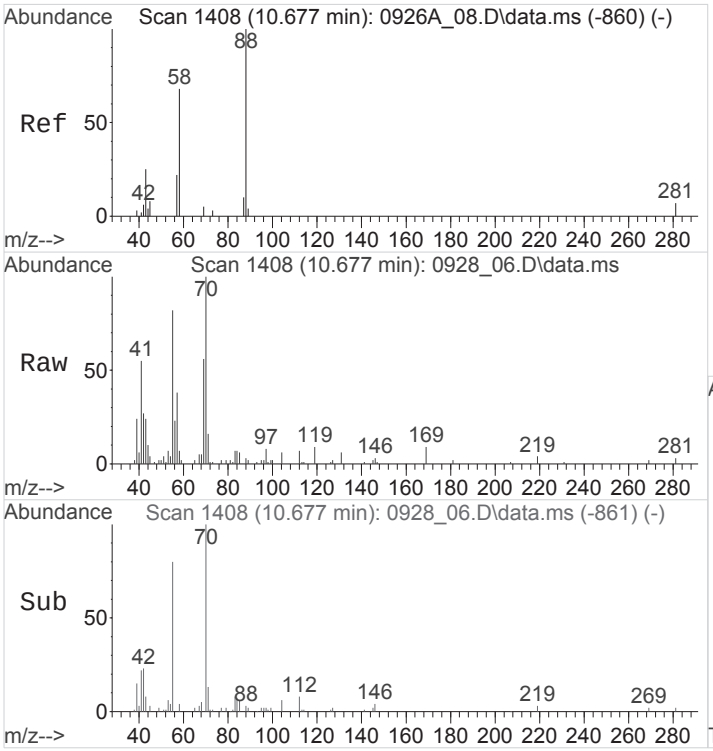


#83
Naphthalene
Concen: 0.9396390 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:128 Resp: 157276

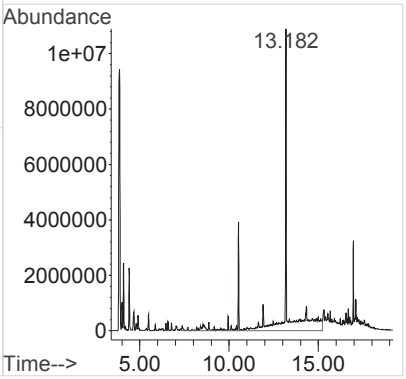
Ion	Ratio	Lower	Upper
128	100		
102	9.2	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 1524.0882306 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_06.D
Acq: 28 Sep 2016 10:44 am

Tgt Ion:TIC Resp:997568980



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_07.D
Acq On : 28 Sep 2016 11:29 am
Operator : 564
Sample : L861822-03 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:34:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

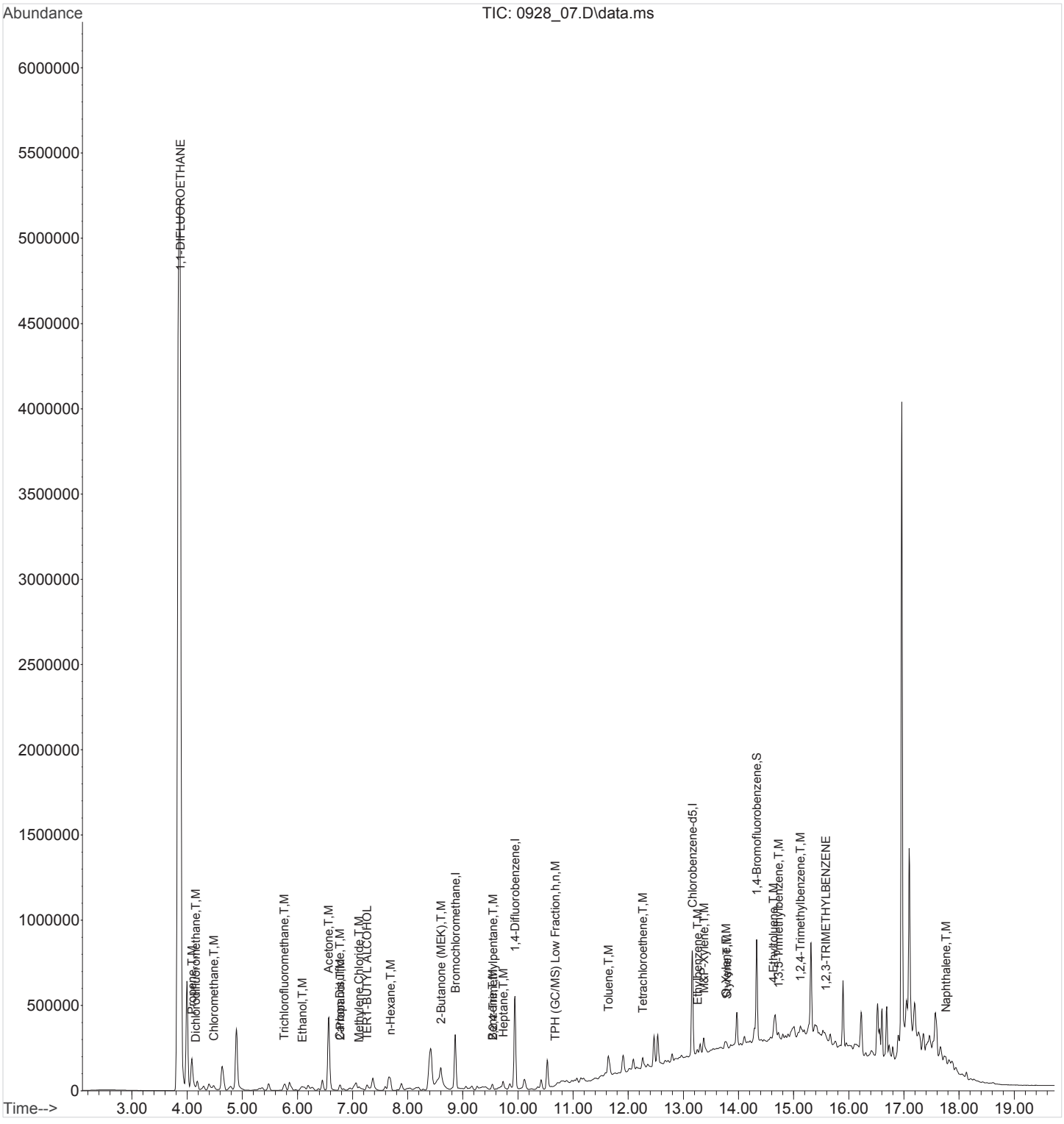
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.865	130	1183028	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.947	114	4865280	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	3571250	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.331	95	2248255	4.0521270	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.30%			
Target Compounds						Qvalue
2) Propene	4.087	41	1154217	11.3419131	ppbv	93
3) 1,1-DIFLUOROETHANE	3.877	65	473830	7.3167409	ppbv #	1
4) Dichlorodifluoromethane	4.151	85	84989	0.4344778	ppbv	98
7) Chloromethane	4.485	50	403730	3.9156706	ppbv	100
13) Trichlorofluoromethane	5.757	101	270812	1.4343131	ppbv	99
14) Ethanol	6.087	45	270351	15.8536085	ppbv	97
17) Acetone	6.568	43	6935217	22.7843988	ppbv	99
18) 2-Propanol	6.776	45	416060	2.0236765	ppbv #	74
19) Carbon Disulfide	6.770	76	138701	0.5258817	ppbv #	80
21) Methylene Chloride	7.118	49	137625	1.1006510	ppbv	96
22) TERT-BUTYL ALCOHOL	7.265	59	516173	2.2626115	ppbv #	56
25) n-Hexane	7.688	57	340703	2.1175651	ppbv #	1
29) 2-Butanone (MEK)	8.604	72	221054	4.6891585	ppbv	98
36) 2,2,4-Trimethylpentane	9.542	57	152416	0.2834787	ppbv #	68
38) Benzene	9.535	78	151383	0.4773876	ppbv	95
40) Heptane	9.732	43	273626	1.2495589	ppbv	93
50) Toluene	11.640	91	898523	2.3755806	ppbv	100
53) Tetrachloroethene	12.265	166	227480	1.4252309	ppbv	95
59) Ethylbenzene	13.257	91	149101	0.3466320	ppbv #	44
60) M&P-Xylene	13.370	91	485290	1.4928528	ppbv	99
61) O-Xylene	13.776	91	148430	0.4484285	ppbv	98
62) Styrene	13.793	104	45584	0.1914574	ppbv #	66
64) Isopropylbenzene	14.123	105	44317	0.0974147	ppbv #	2
66) n-Propylbenzene	14.544	91	58294	0.1079823	ppbv #	1
67) 4-Ethyltoluene	14.631	105	192715	0.4378228	ppbv	96
68) 2-Chlorotoluene	14.545	91	48974	0.1196004	ppbv #	49
70) 1,3,5-Trimethylbenzene	14.722	105	56050	0.1509038	ppbv #	27
72) 1,2,4-Trimethylbenzene	15.123	105	231123	0.6305042	ppbv	97
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	70440	0.1893842	ppbv	96
83) Naphthalene	17.762	128	298710	1.5276822	ppbv #	95
84) TPH (GC/MS) Low Fraction	10.675	TIC	598033283m	782.1275375	ppbv	

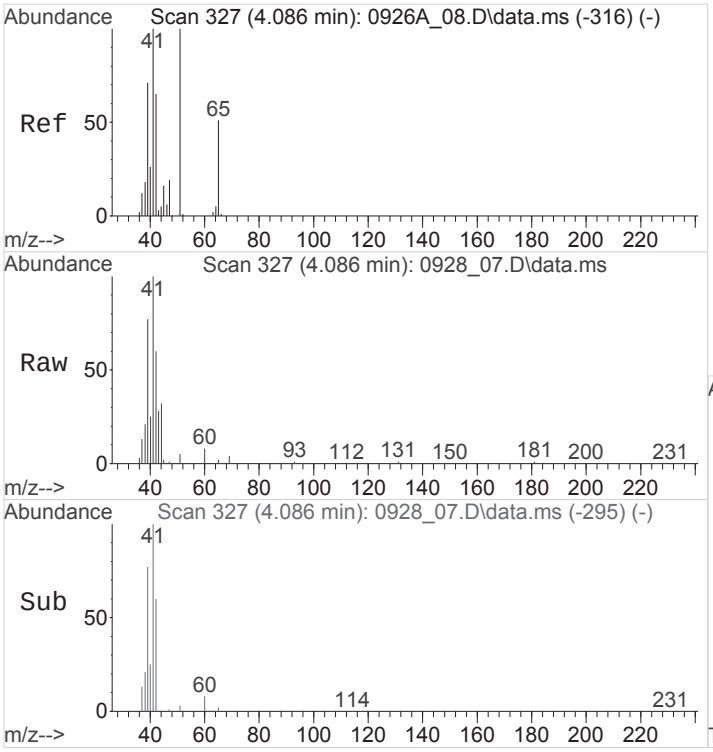
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_07.D
Acq On : 28 Sep 2016 11:29 am
Operator : 564
Sample : L861822-03 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:34:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

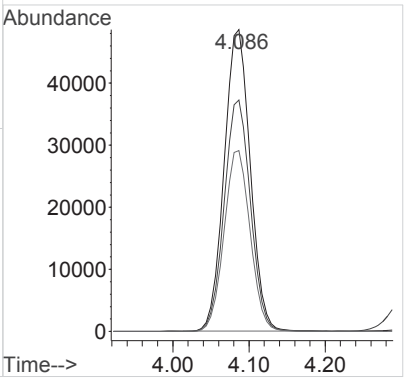


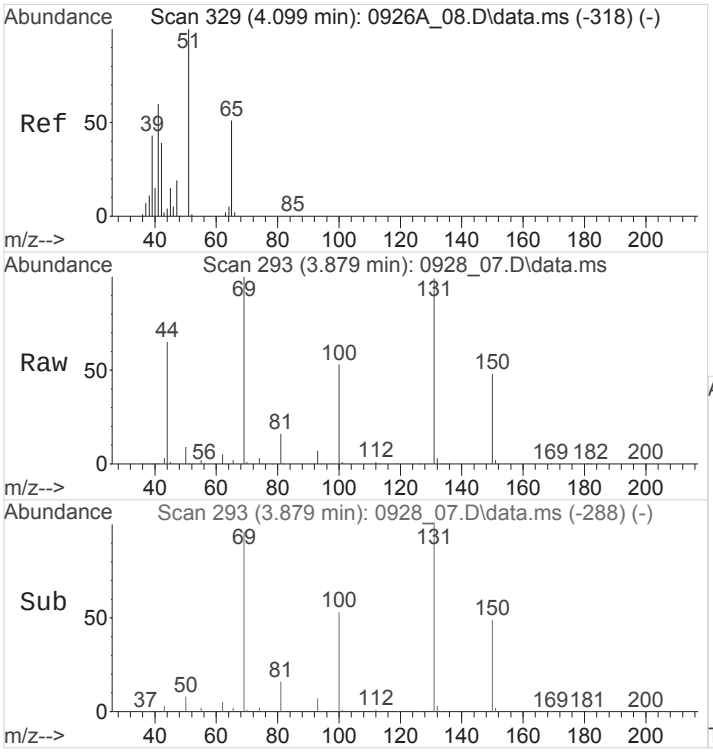


#2
Propene
Concen: 11.3419131 ppbv
RT: 4.087 min Scan# 327
Delta R.T. -0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 41 Resp: 1154217

Ion	Ratio	Lower	Upper
41	100		
39	77.3	56.5	84.7
42	60.2	52.2	78.4

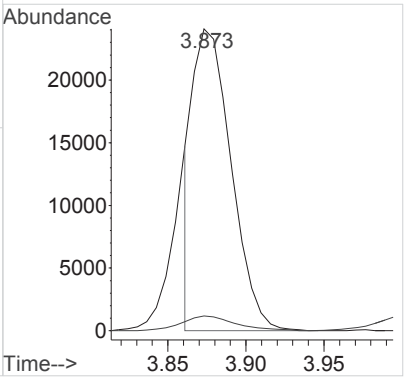


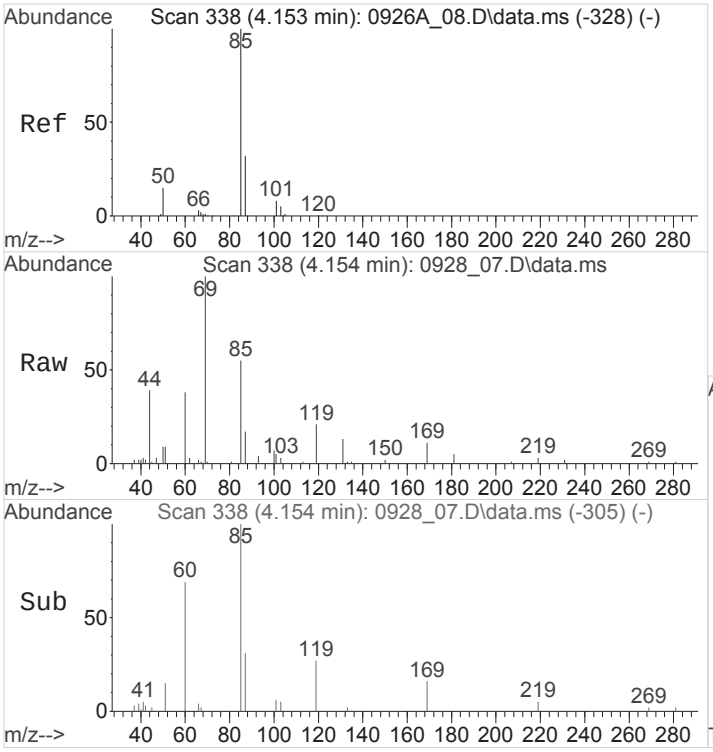


#3
1,1-DIFLUOROETHANE
Concen: 7.3167409 ppbv
RT: 3.877 min Scan# 293
Delta R.T. -0.221 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 65 Resp: 473830

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

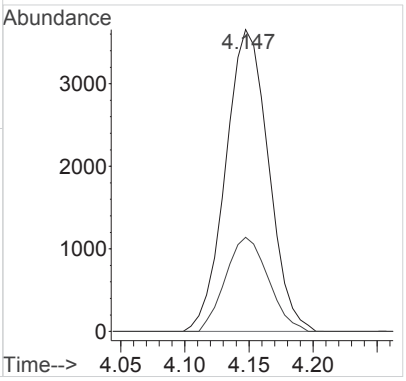


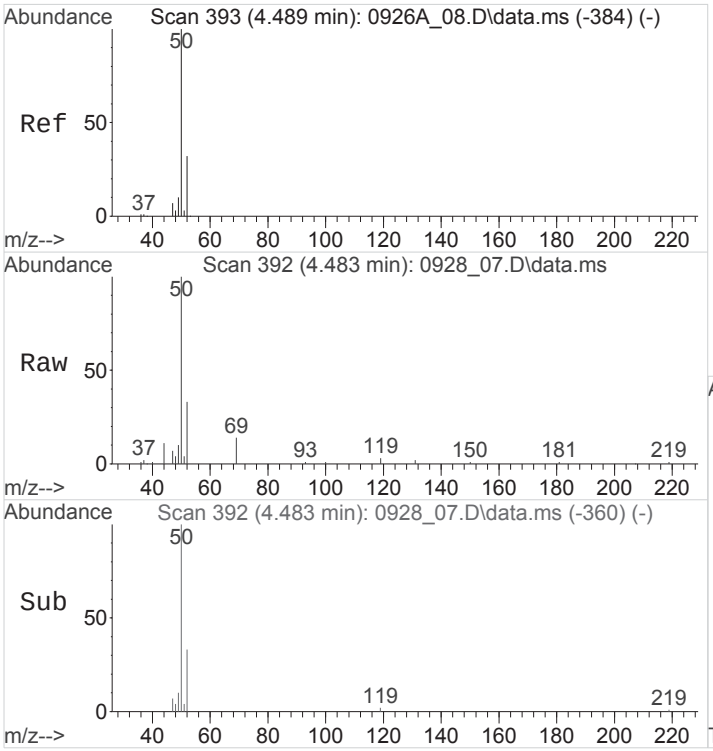


#4
Dichlorodifluoromethane
Concen: 0.4344778 ppbv
RT: 4.151 min Scan# 338
Delta R.T. -0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 85 Resp: 84989

Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.8	38.6

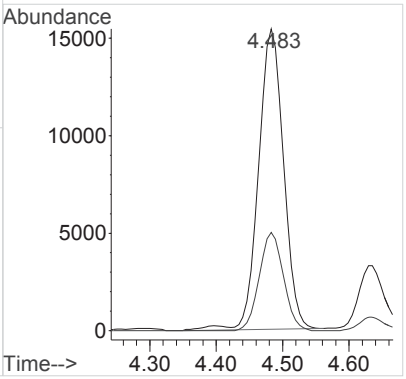


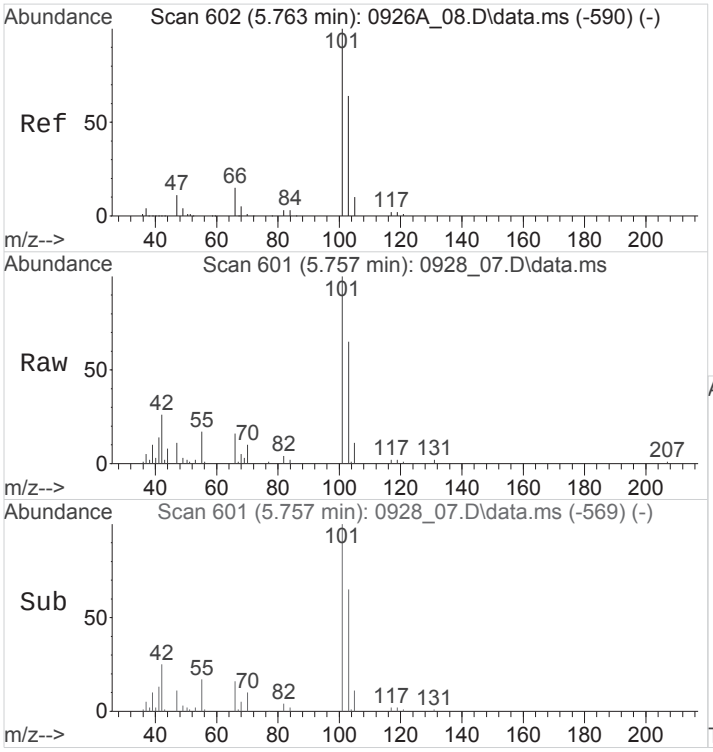


#7
Chloromethane
Concen: 3.9156706 ppbv
RT: 4.485 min Scan# 392
Delta R.T. -0.003 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 50 Resp: 403730

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.4	38.0

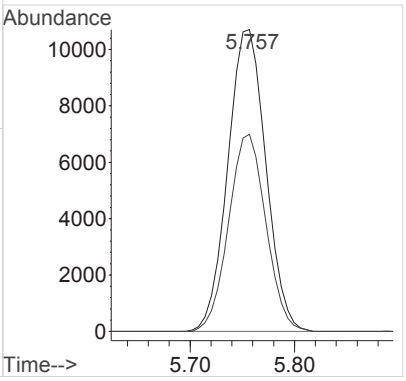


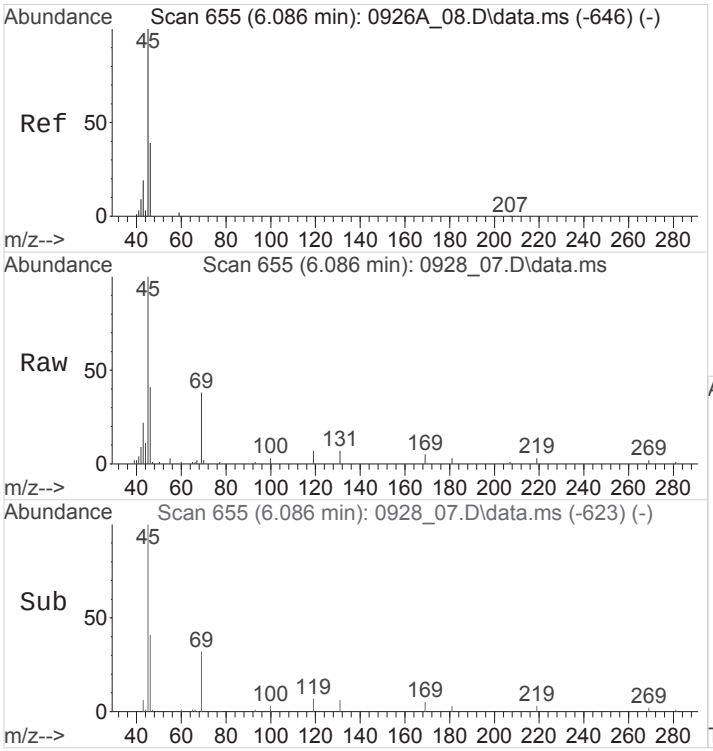


#13
Trichlorofluoromethane
Concen: 1.4343131 ppbv
RT: 5.757 min Scan# 601
Delta R.T. -0.004 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:101 Resp: 270812

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.7	77.5

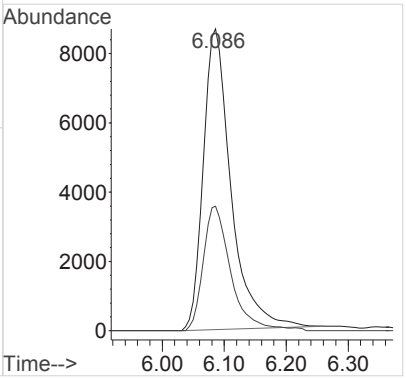


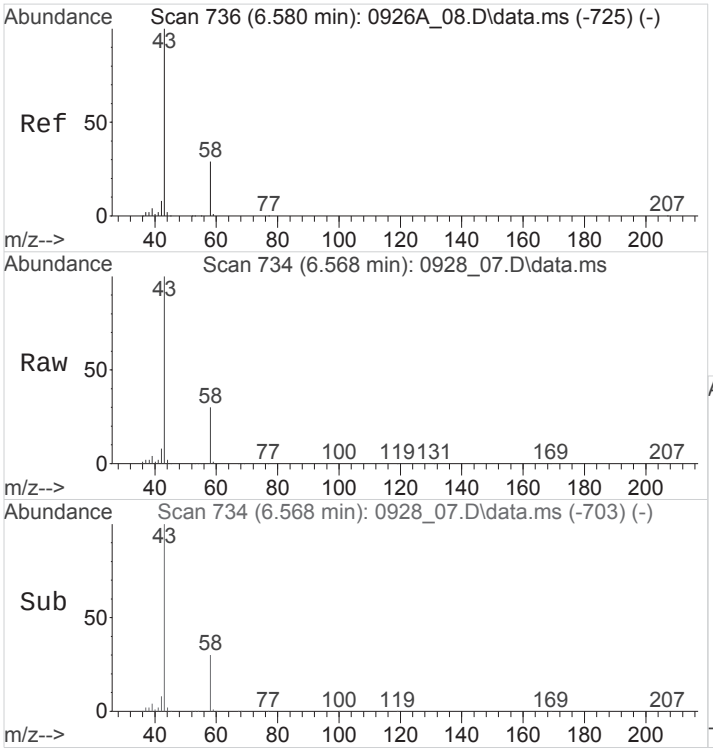


#14
Ethanol
Concen: 15.8536085 ppbv
RT: 6.087 min Scan# 655
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 45 Resp: 270351

Ion	Ratio	Lower	Upper
45	100		
46	39.3	33.0	49.4

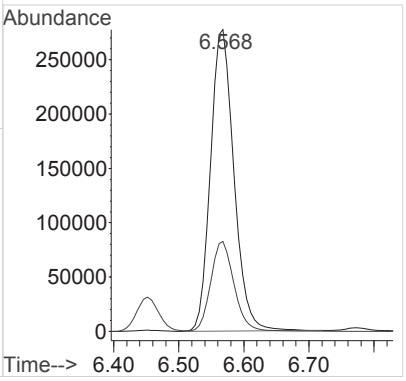


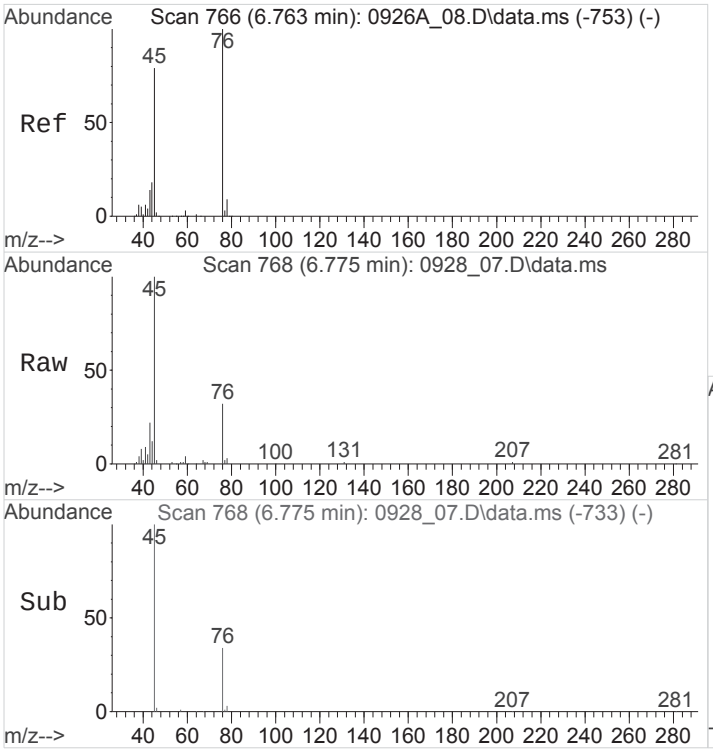


#17
Acetone
Concen: 22.7843988 ppbv
RT: 6.568 min Scan# 734
Delta R.T. -0.011 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 43 Resp: 6935217

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7

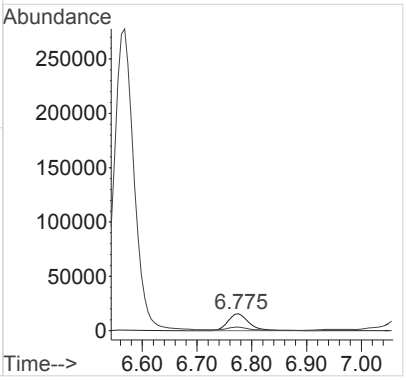


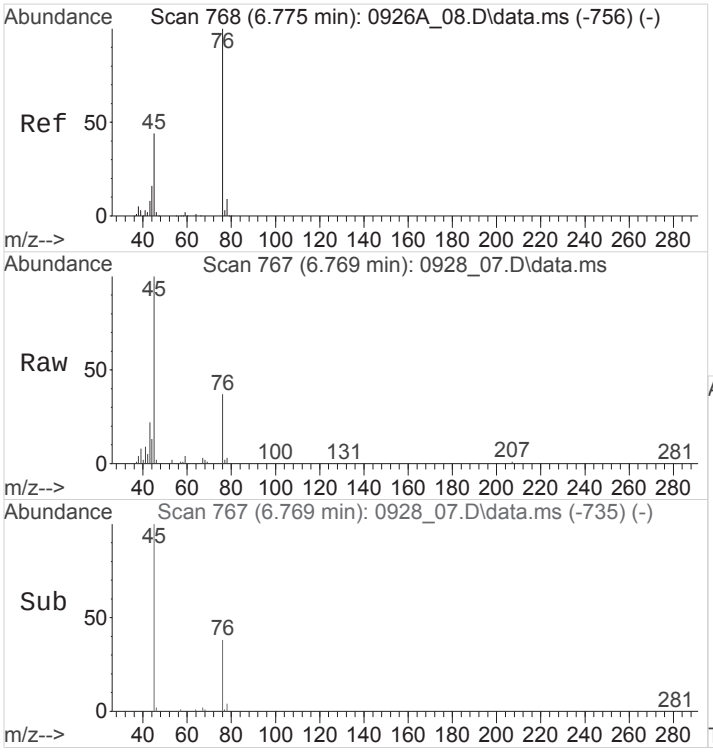


#18
2-Propanol
Concen: 2.0236765 ppbv
RT: 6.776 min Scan# 768
Delta R.T. 0.016 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 45 Resp: 416060

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

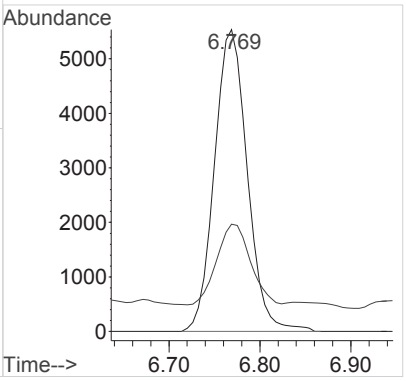


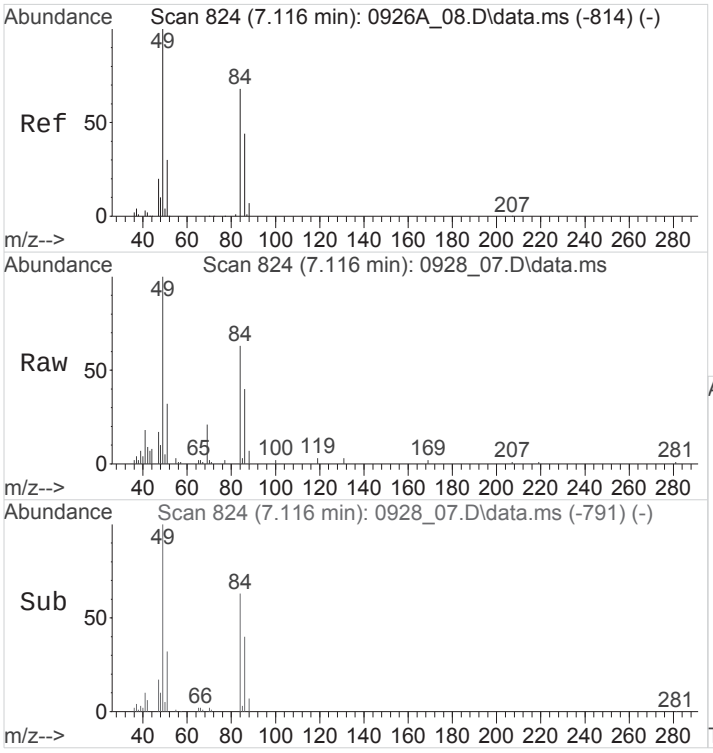


#19
Carbon Disulfide
Concen: 0.5258817 ppbv
RT: 6.770 min Scan# 767
Delta R.T. -0.006 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 76 Resp: 138701

Ion	Ratio	Lower	Upper
76	100		
44	26.6	14.2	21.2#

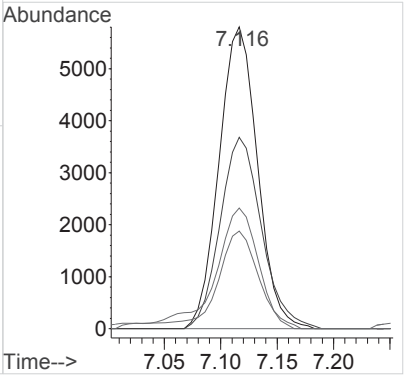


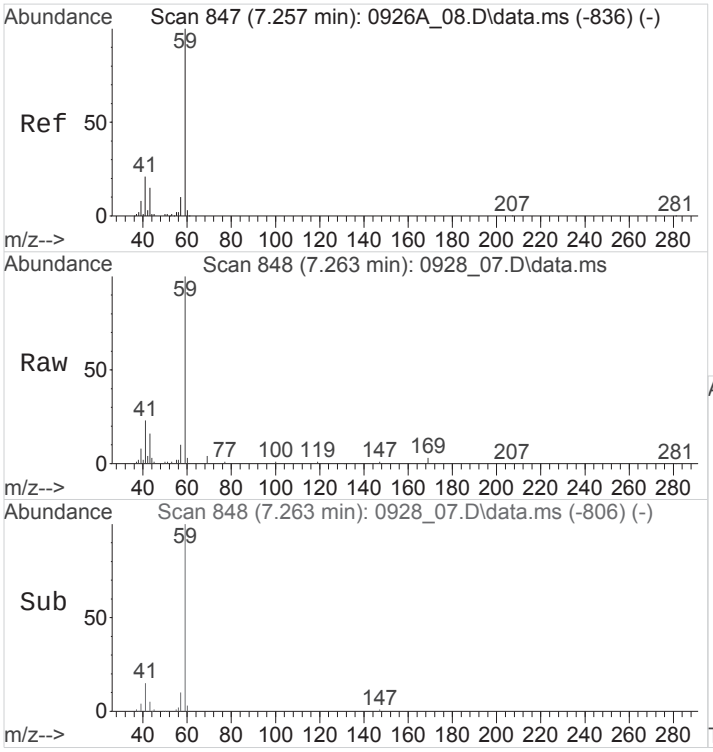


#21
Methylene Chloride
Concen: 1.1006510 ppbv
RT: 7.118 min Scan# 824
Delta R.T. 0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 49 Resp: 137625

Ion	Ratio	Lower	Upper
49	100		
84	68.4	54.2	81.2
86	46.1	35.1	52.7
51	36.6	24.5	36.7

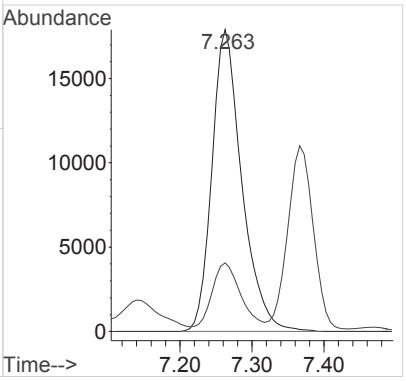


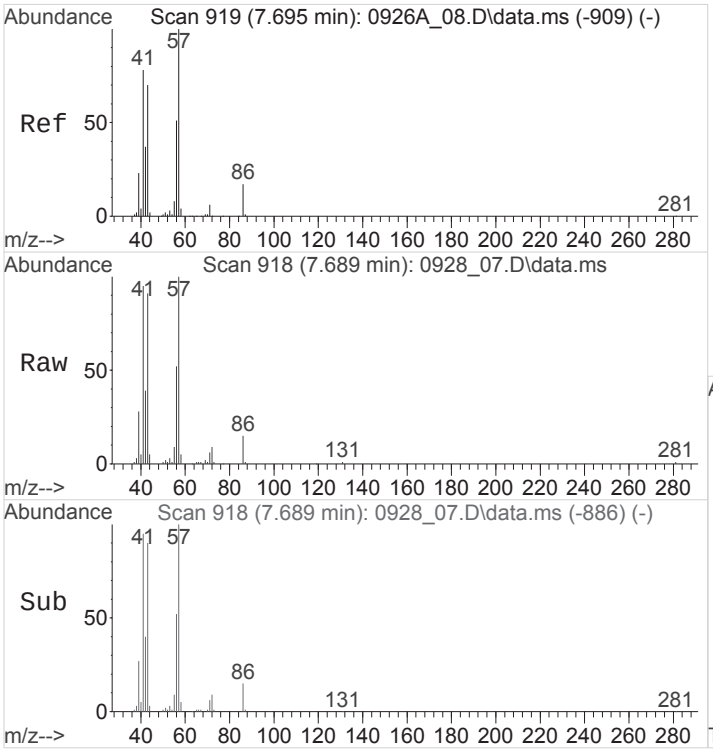


#22
TERT-BUTYL ALCOHOL
Concen: 2.2626115 ppbv
RT: 7.265 min Scan# 848
Delta R.T. 0.010 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 59 Resp: 516173

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

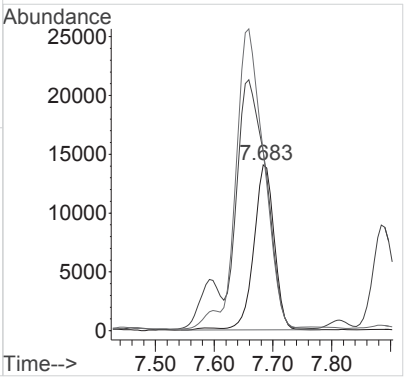


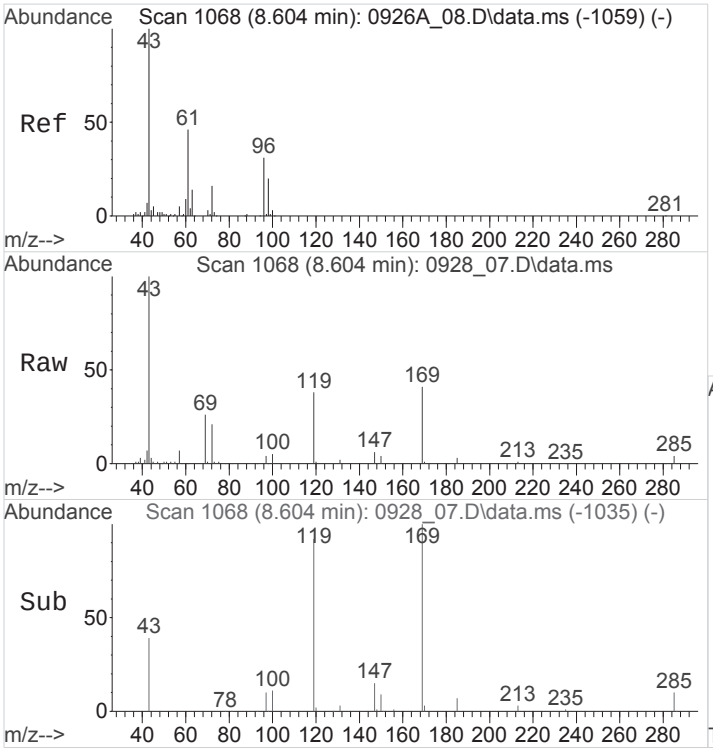


#25
n-Hexane
Concen: 2.1175651 ppbv
RT: 7.688 min Scan# 918
Delta R.T. -0.005 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 57 Resp: 340703

Ion	Ratio	Lower	Upper
57	100		
41	214.8	63.2	94.8#
43	247.6	56.0	84.0#

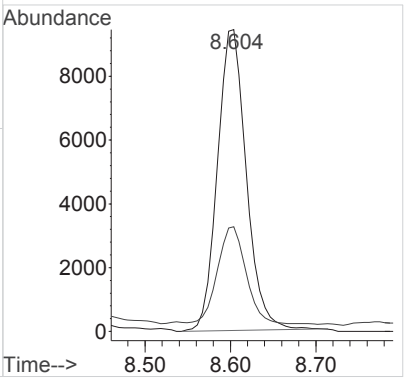


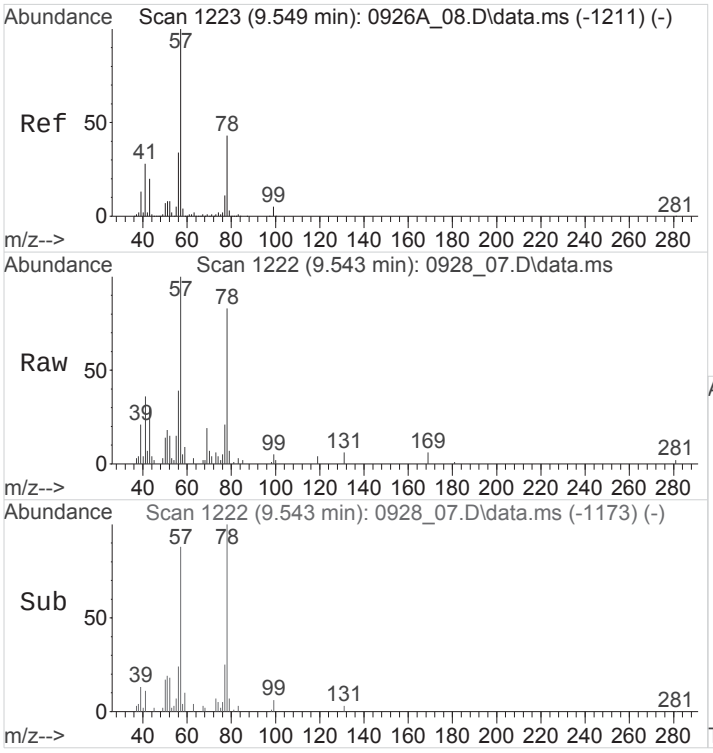


#29
2-Butanone (MEK)
Concen: 4.6891585 ppbv
RT: 8.604 min Scan# 1068
Delta R.T. 0.003 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 72 Resp: 221054

Ion	Ratio	Lower	Upper
72	100		
57	30.8	25.6	38.4

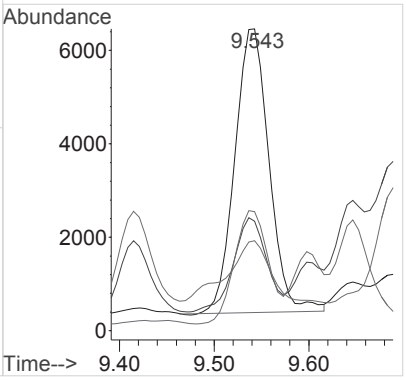


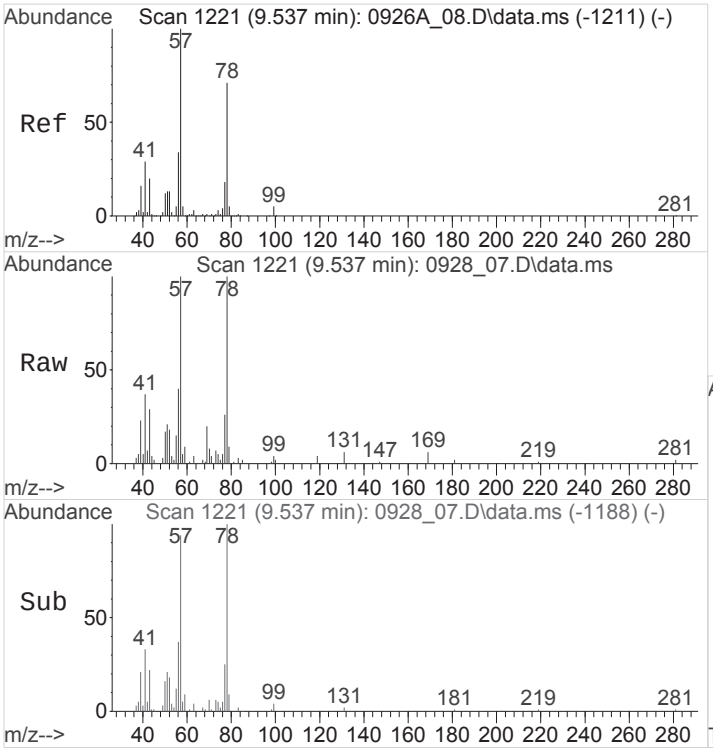


#36
2,2,4-Trimethylpentane
Concen: 0.2834787 ppbv
RT: 9.542 min Scan# 1222
Delta R.T. -0.004 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 57 Resp: 152416

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	37.2	27.2	40.8

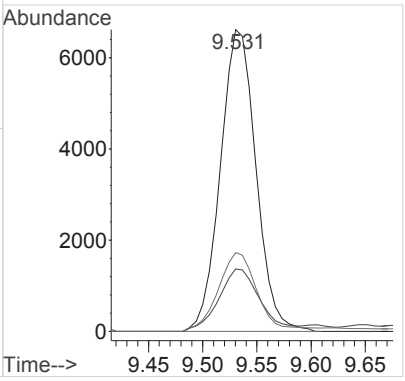


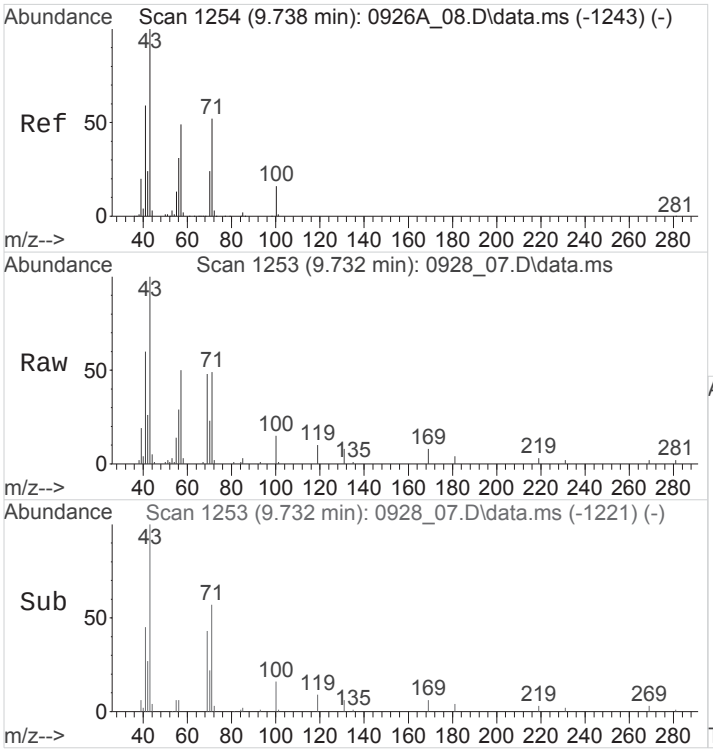


#38
Benzene
Concen: 0.4773876 ppbv
RT: 9.535 min Scan# 1221
Delta R.T. -0.003 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 78 Resp: 151383

Ion	Ratio	Lower	Upper
78	100		
51	22.7	15.4	23.0
77	26.6	19.9	29.9

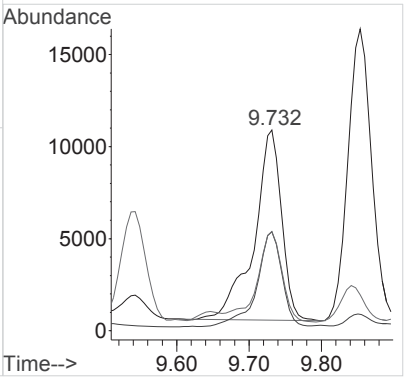


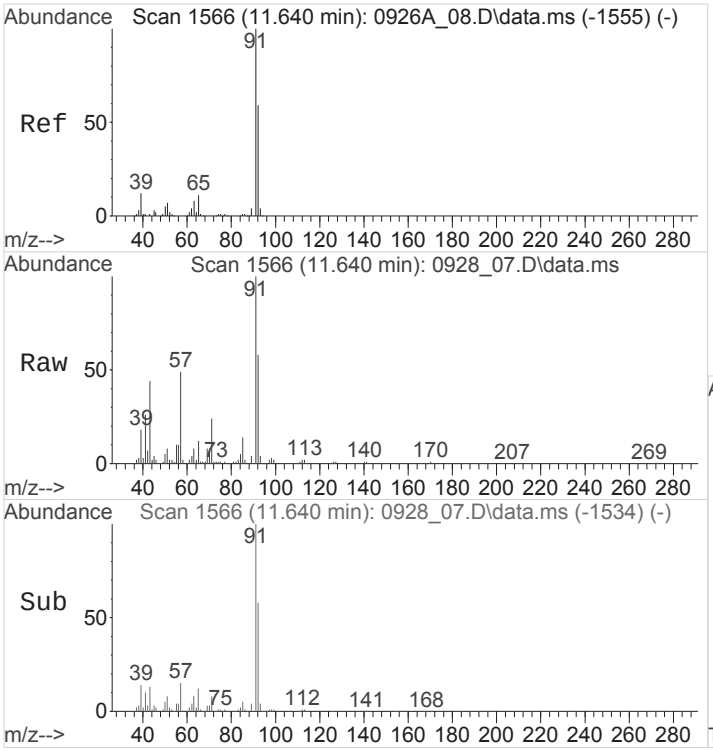


#40
Heptane
Concen: 1.2495589 ppbv
RT: 9.732 min Scan# 1253
Delta R.T. -0.005 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 43 Resp: 273626

Ion	Ratio	Lower	Upper
43	100		
71	44.4	41.4	62.0
57	46.4	39.3	58.9

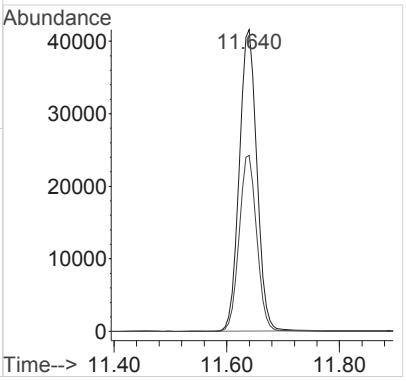


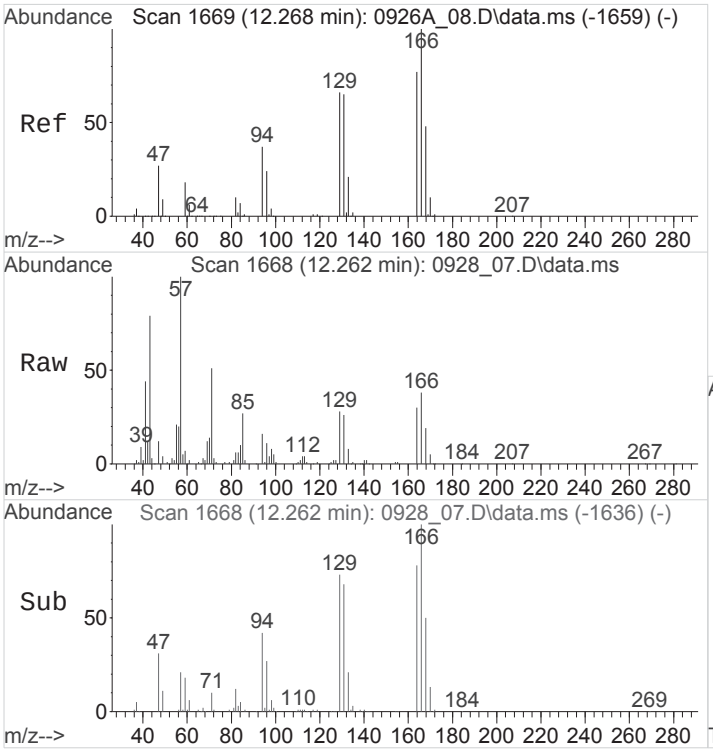


#50
Toluene
Concen: 2.3755806 ppbv
RT: 11.640 min Scan# 1566
Delta R.T. -0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 898523

Ion	Ratio	Lower	Upper
91	100		
92	58.0	46.6	70.0

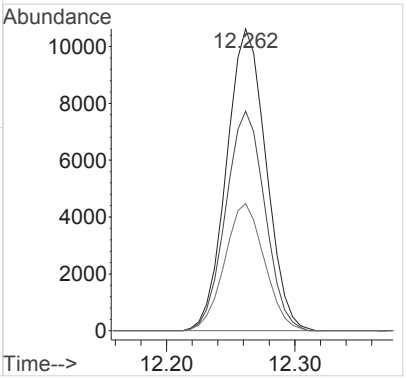


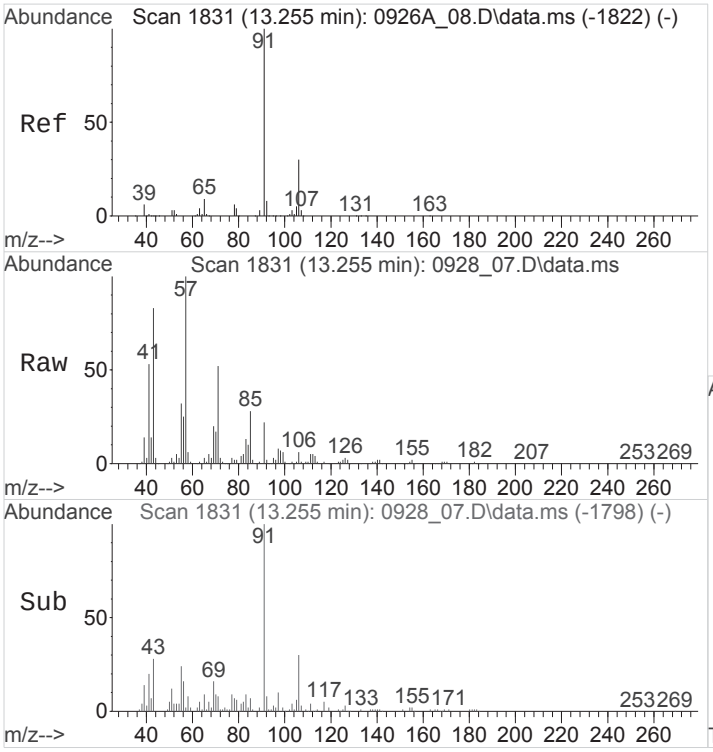


#53
Tetrachloroethene
Concen: 1.4252309 ppbv
RT: 12.265 min Scan# 1668
Delta R.T. -0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:166 Resp: 227480

Ion	Ratio	Lower	Upper
166	100		
129	72.1	55.0	82.6
94	42.4	31.3	46.9

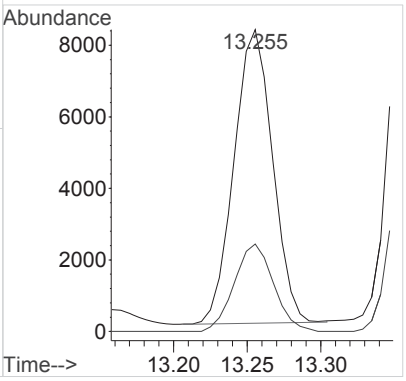


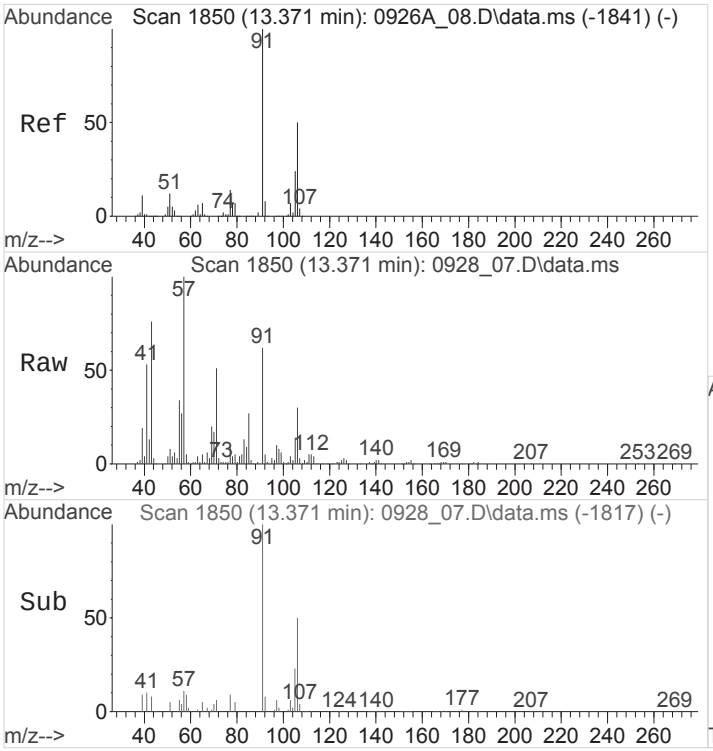


#59
Ethylbenzene
Concen: 0.3466320 ppbv
RT: 13.257 min Scan# 1831
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 149101

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

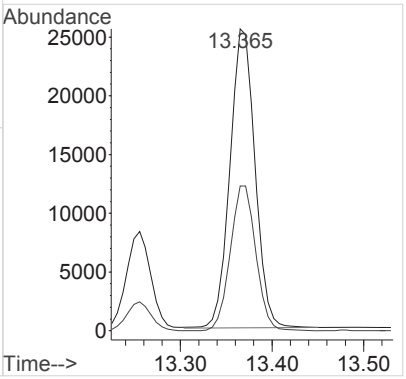


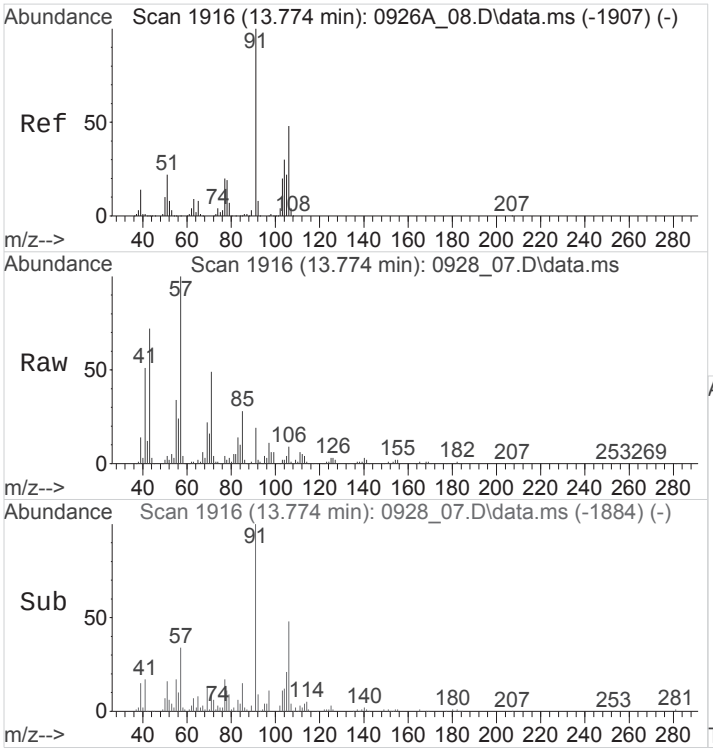


#60
M&P-Xylene
Concen: 1.4928528 ppbv
RT: 13.370 min Scan# 1850
Delta R.T. -0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 485290

Ion	Ratio	Lower	Upper
91	100		
106	49.2	39.8	59.6

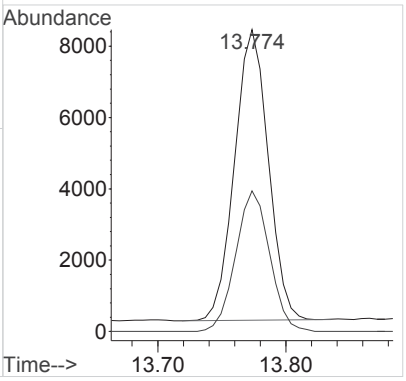


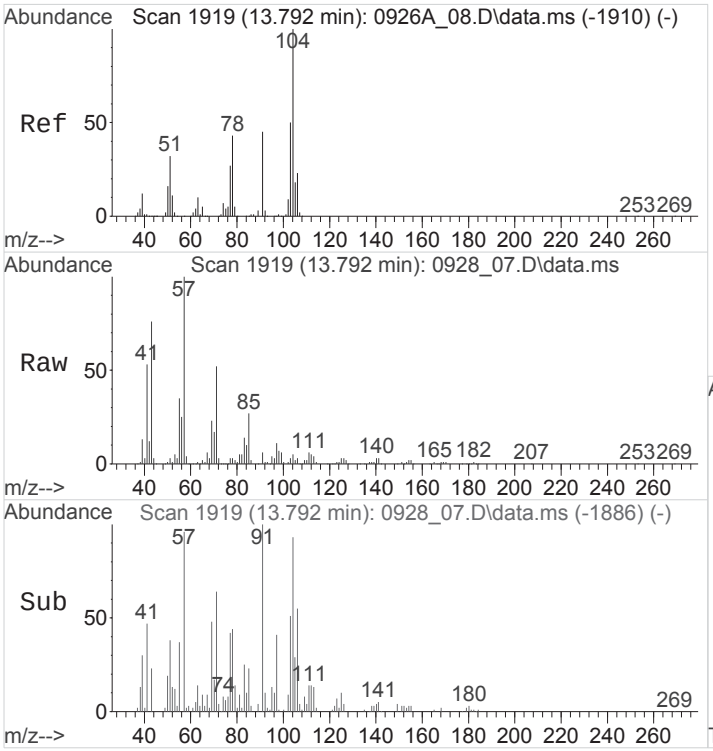


#61
O-Xylene
Concen: 0.4484285 ppbv
RT: 13.776 min Scan# 1916
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 148430

Ion	Ratio	Lower	Upper
91	100		
106	48.9	38.2	57.2

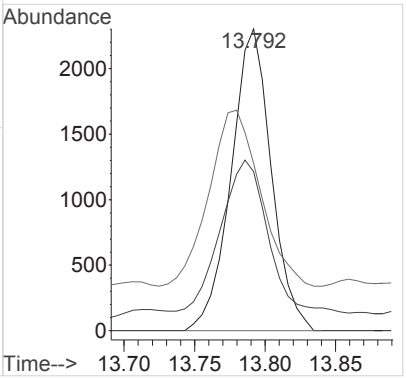


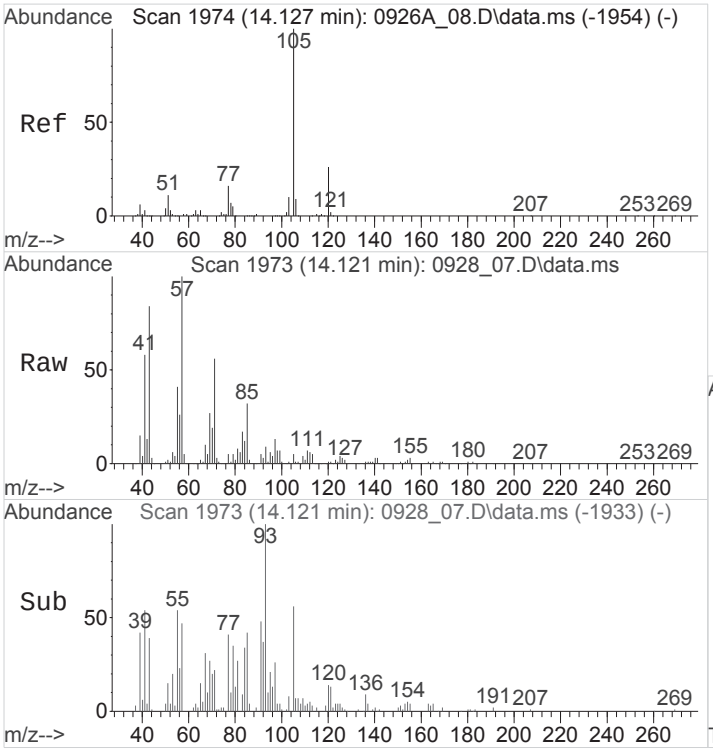


#62
Styrene
Concen: 0.1914574 ppbv
RT: 13.793 min Scan# 1919
Delta R.T. 0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:104 Resp: 45584

Ion	Ratio	Lower	Upper
104	100		
78	64.0	39.0	58.6#
51	74.2	35.2	52.8#

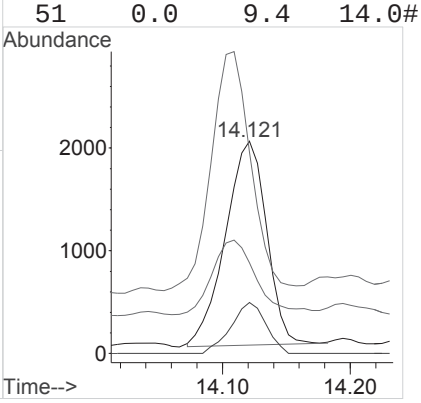


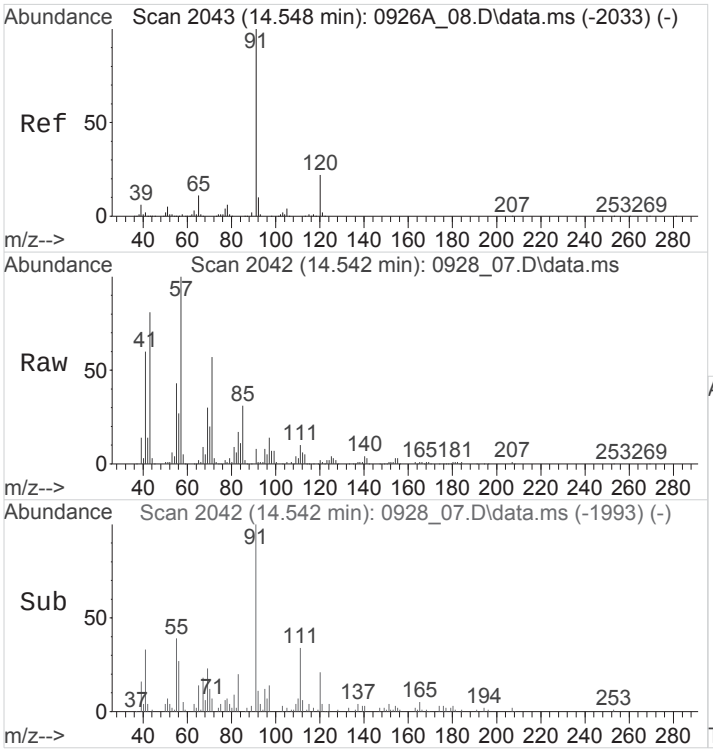


#64
Isopropylbenzene
Concen: 0.0974147 ppbv
RT: 14.123 min Scan# 1973
Delta R.T. -0.003 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:105 Resp: 44317

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.7	31.1#
77	111.5	13.0	19.4#
51	0.0	9.4	14.0#

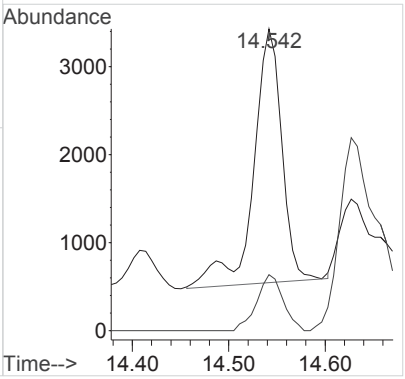


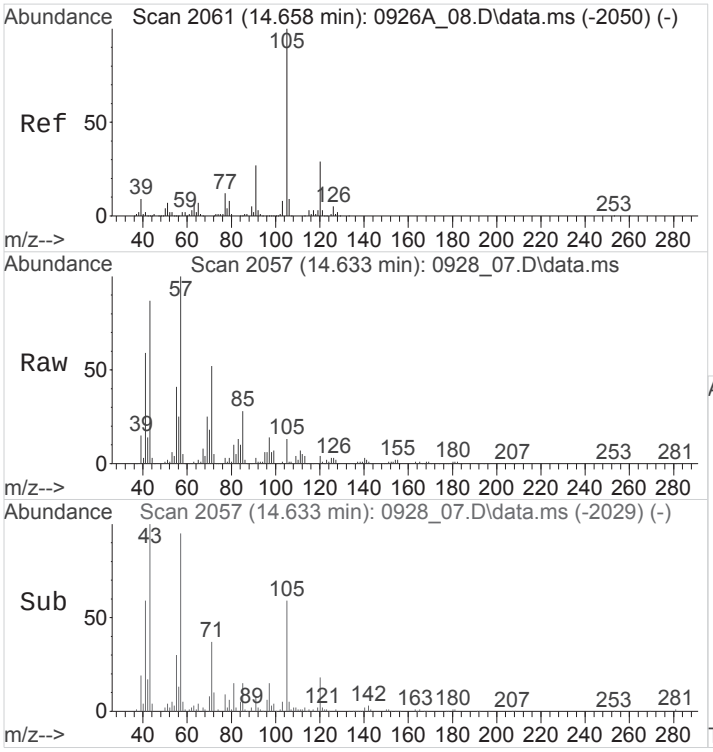


#66
n-Propylbenzene
Concen: 0.1079823 ppbv
RT: 14.544 min Scan# 2042
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 58294

Ion	Ratio	Lower	Upper
91	100		
120	94.7	17.1	25.7#

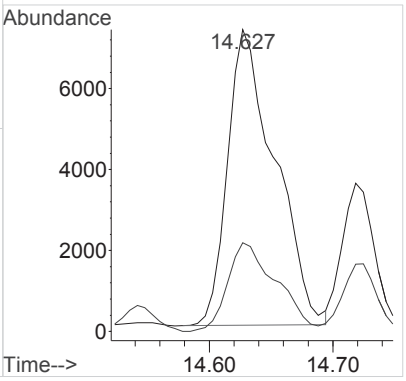


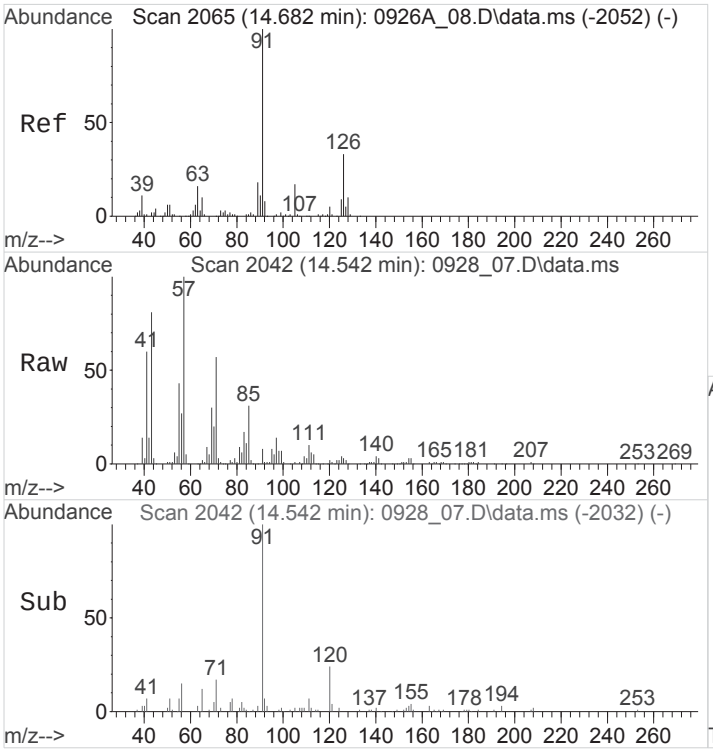


#67
4-Ethyltoluene
Concen: 0.4378228 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.029 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:105 Resp: 192715

Ion	Ratio	Lower	Upper
105	100		
120	31.0	23.2	34.8

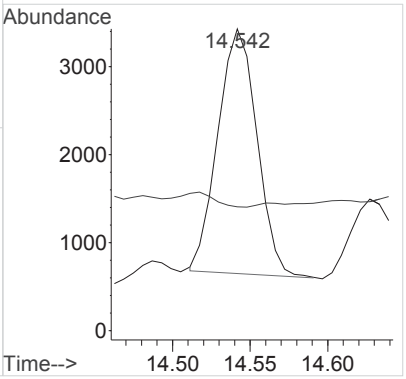


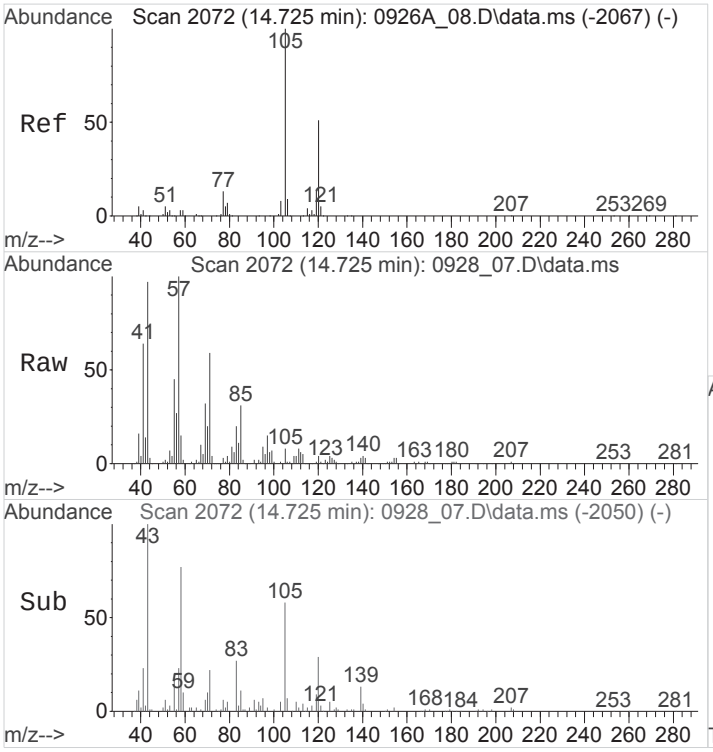


#68
2-Chlorotoluene
Concen: 0.1196004 ppbv
RT: 14.545 min Scan# 2042
Delta R.T. -0.135 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion: 91 Resp: 48974

Ion	Ratio	Lower	Upper
91	100		
126	0.0	20.7	31.1#

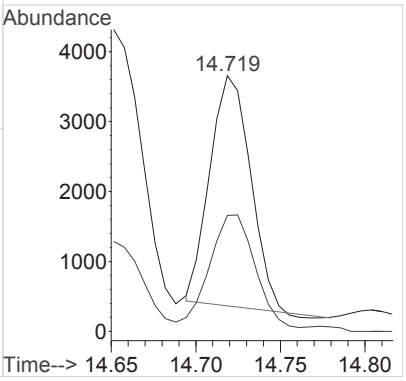


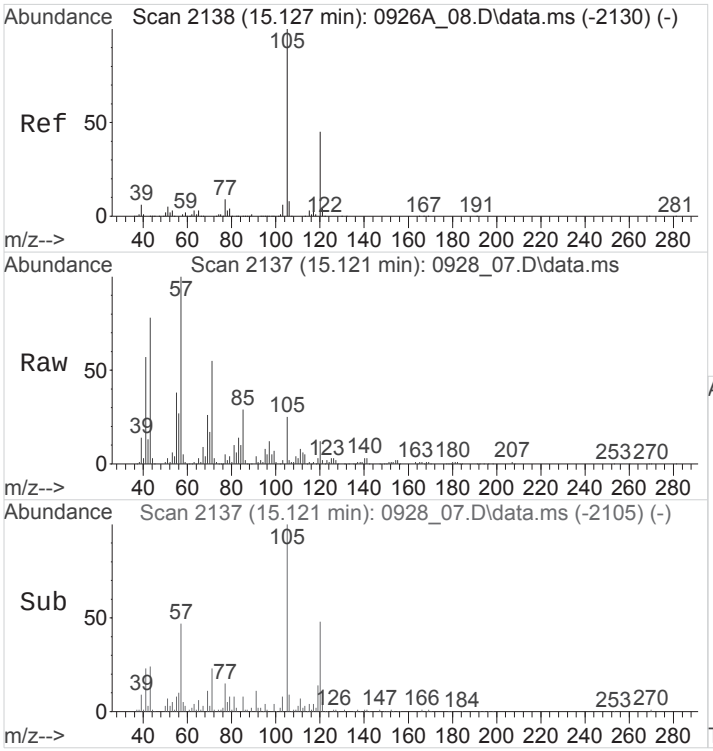


#70
1,3,5-Trimethylbenzene
Concen: 0.1509038 ppbv
RT: 14.722 min Scan# 2072
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:105 Resp: 56050

Ion	Ratio	Lower	Upper
105	100		
120	0.0	40.2	60.4#

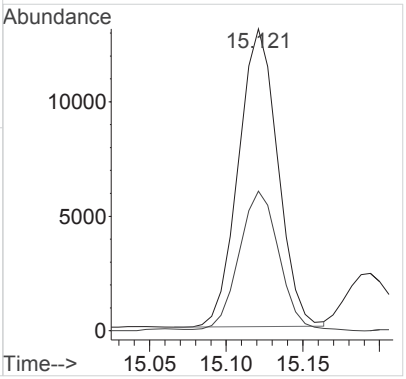


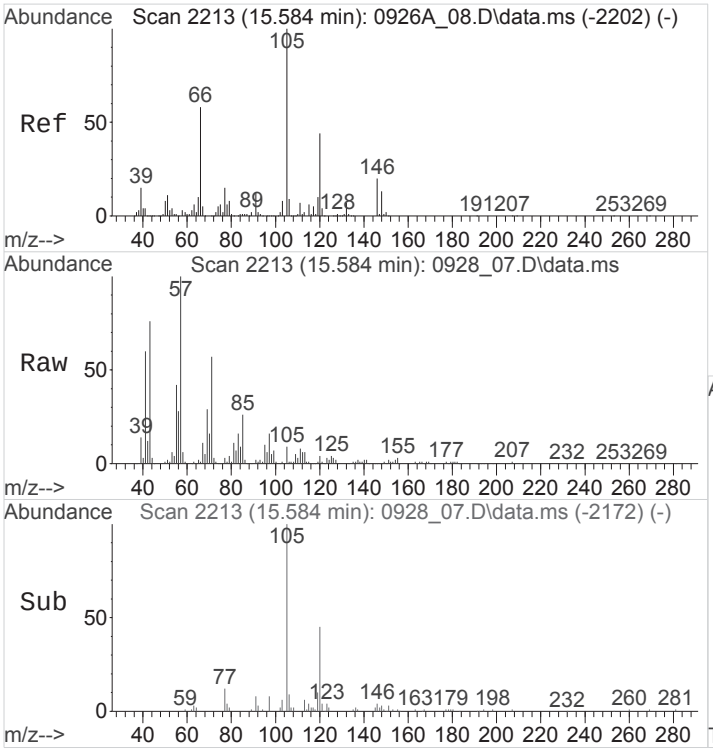


#72
1,2,4-Trimethylbenzene
Concen: 0.6305042 ppbv
RT: 15.123 min Scan# 2137
Delta R.T. -0.001 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:105 Resp: 231123

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.5	56.3

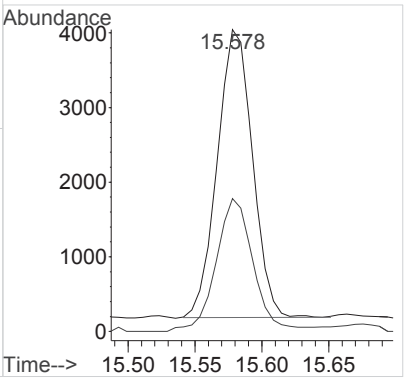


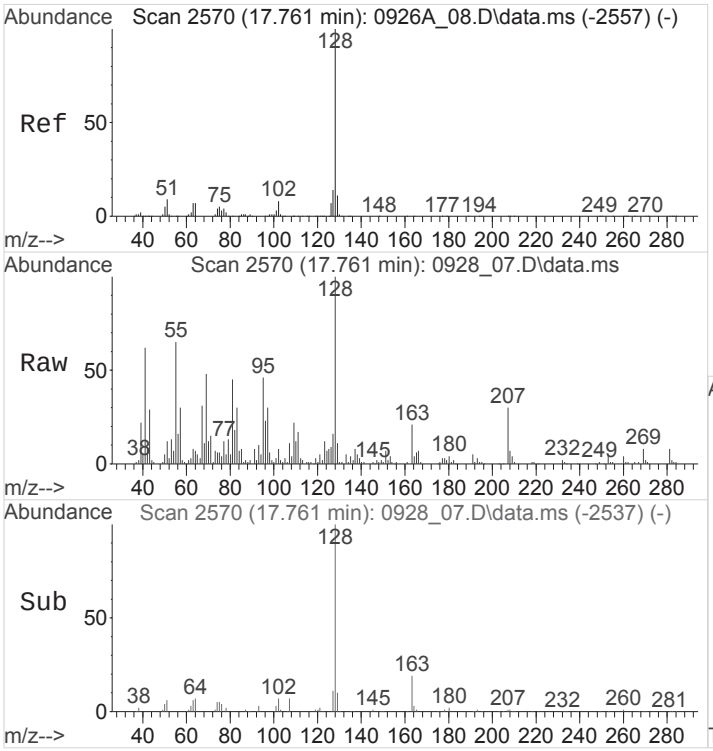


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.1893842 ppbv
RT: 15.582 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:105 Resp: 70440

Ion	Ratio	Lower	Upper
105	100		
120	45.9	34.6	52.0

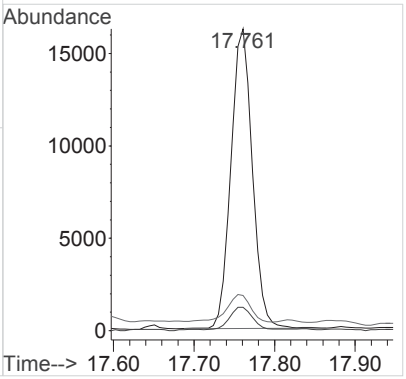


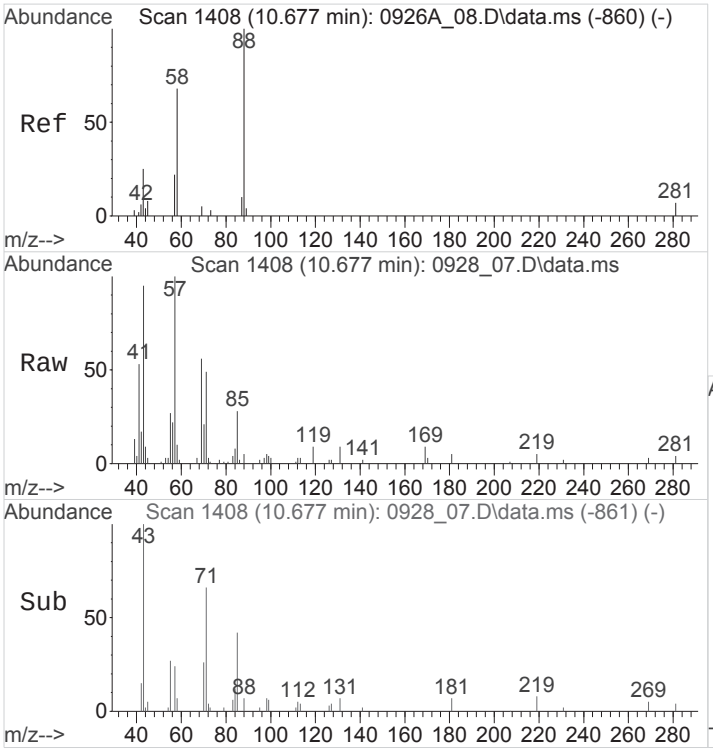


#83
Naphthalene
Concen: 1.5276822 ppbv
RT: 17.762 min Scan# 2570
Delta R.T. 0.002 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:128 Resp: 298710

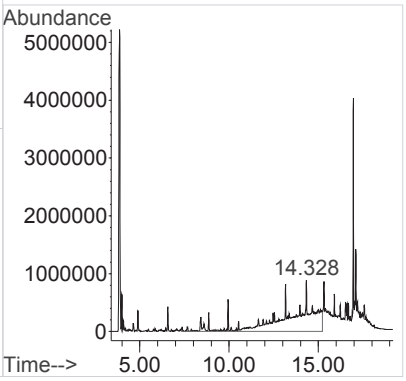
Ion	Ratio	Lower	Upper
128	100		
102	8.2	6.1	9.1
51	6.5	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 782.1275375 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_07.D
Acq: 28 Sep 2016 11:29 am

Tgt Ion:TIC Resp:598033283



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_08.D
Acq On : 28 Sep 2016 12:14 pm
Operator : 564
Sample : L861822-04 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:36:09 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

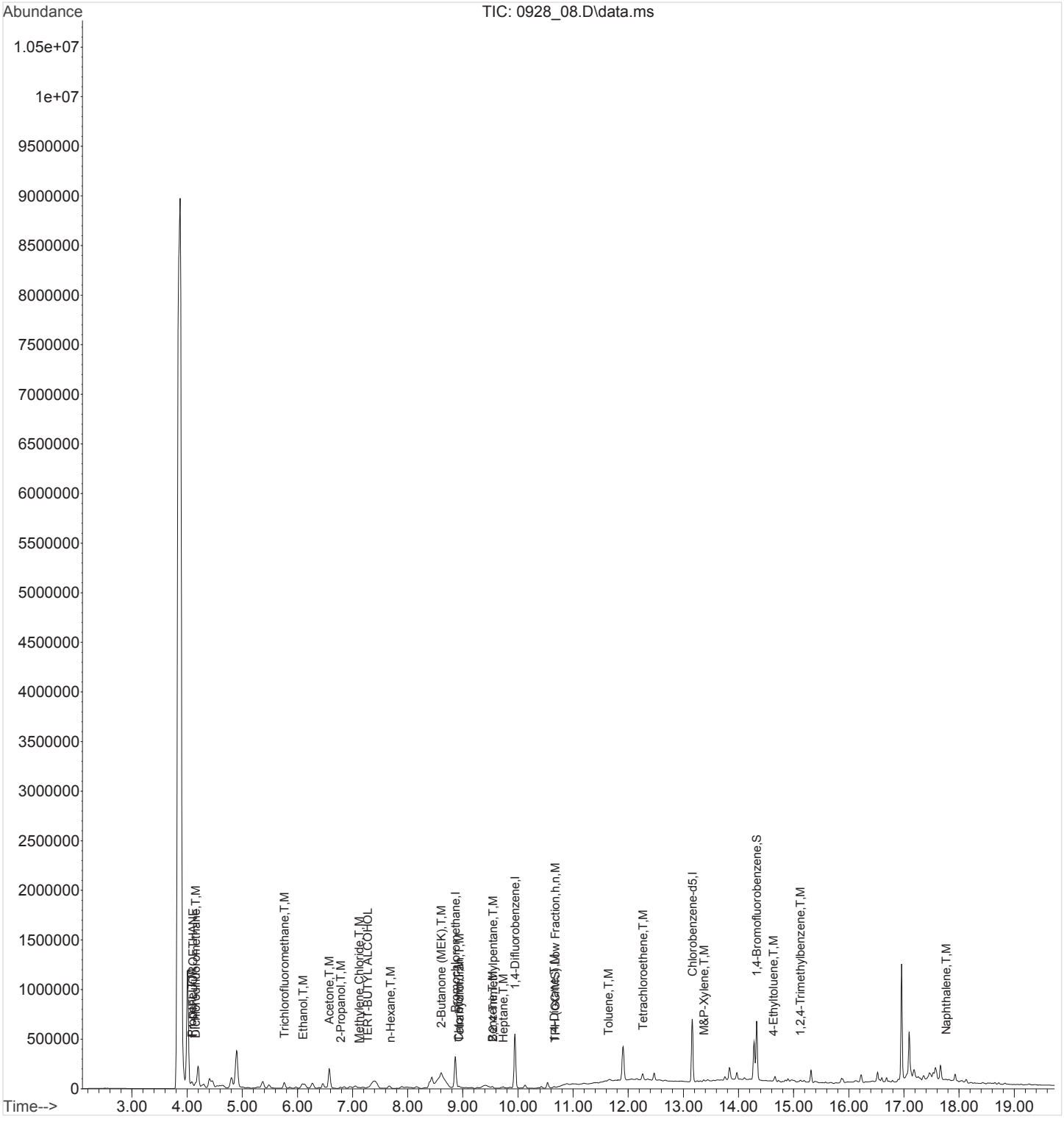
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.867	130	1152623	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.948	114	4834800	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	3503384	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.331	95	2212069	4.0641399	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.60%			
Target Compounds						Qvalue
2) Propene	4.089	41	212600	2.1442175	ppbv	92
3) 1,1-DIFLUOROETHANE	4.103	65	93625	1.4838575	ppbv	88
4) Dichlorodifluoromethane	4.154	85	133370	0.6997963	ppbv	100
13) Trichlorofluoromethane	5.763	101	608372	3.3071468	ppbv	99
14) Ethanol	6.097	45	215530	12.9722263	ppbv	98
17) Acetone	6.580	43	3236822	10.9145041	ppbv	99
18) 2-Propanol	6.785	45	165483	0.8261232	ppbv #	74
21) Methylene Chloride	7.121	49	59640	0.4895507	ppbv #	87
22) TERT-BUTYL ALCOHOL	7.274	59	175024	0.7874448	ppbv	93
25) n-Hexane	7.690	57	68019	0.4339088	ppbv #	1
29) 2-Butanone (MEK)	8.611	72	137771	2.9995872	ppbv	96
31) Tetrahydrofuran	8.942	42	47008	0.3612473	ppbv #	74
32) Chloroform	8.926	83	84096	0.4808399	ppbv	97
36) 2,2,4-Trimethylpentane	9.544	57	81355	0.1553033	ppbv #	70
38) Benzene	9.538	78	46301	0.1469295	ppbv #	53
40) Heptane	9.733	43	92201	0.4237059	ppbv #	56
46) 1,4-Dioxane	10.657	88	108866	1.9816821	ppbv #	100
50) Toluene	11.642	91	57641	0.1533550	ppbv	95
53) Tetrachloroethene	12.265	166	218789	1.3794208	ppbv	96
59) Ethylbenzene	13.257	91	32836	0.0778157	ppbv #	44
60) M&P-Xylene	13.370	91	97127	0.3045694	ppbv	100
67) 4-Ethyltoluene	14.631	105	57108	0.1322543	ppbv #	46
70) 1,3,5-Trimethylbenzene	14.631	105	43444	0.1192304	ppbv #	27
72) 1,2,4-Trimethylbenzene	15.124	105	104673	0.2910789	ppbv	97
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	35146	0.0963223	ppbv #	33
83) Naphthalene	17.764	128	36593	0.1907690	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	268861279m	358.4371332	ppbv	

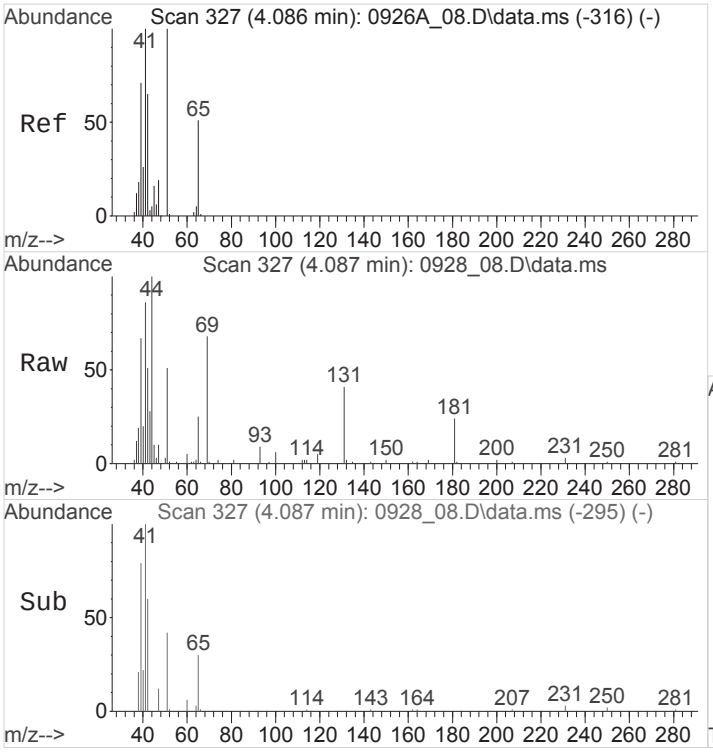
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_08.D
Acq On : 28 Sep 2016 12:14 pm
Operator : 564
Sample : L861822-04 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:36:09 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

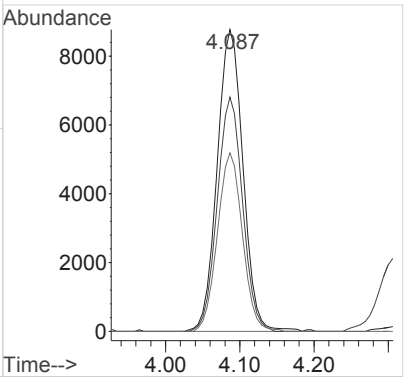


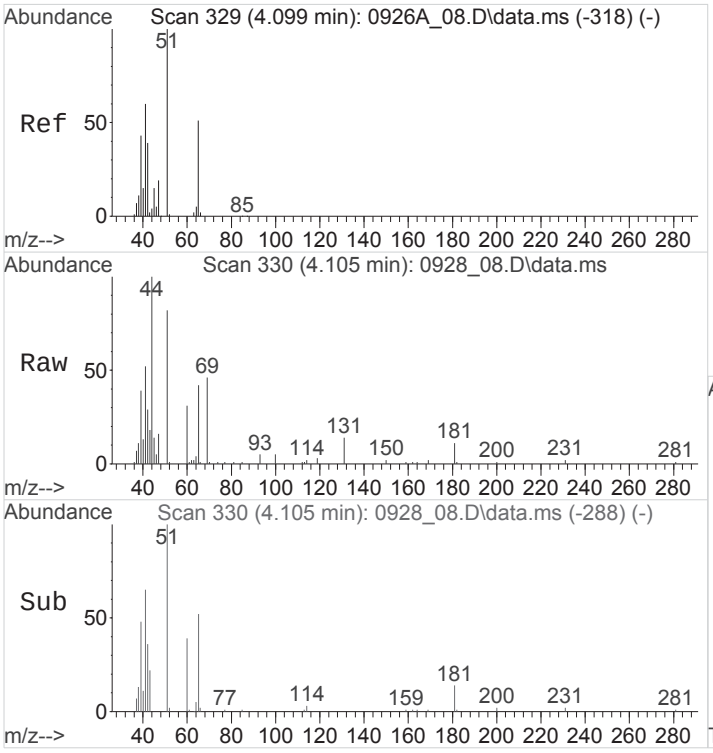


#2
Propene
Concen: 2.1442175 ppbv
RT: 4.089 min Scan# 327
Delta R.T. 0.001 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 41 Resp: 212600

Ion	Ratio	Lower	Upper
41	100		
39	75.8	56.5	84.7
42	57.2	52.2	78.4

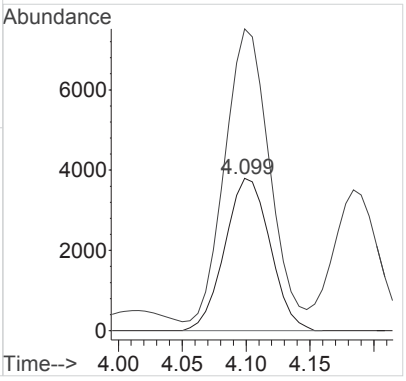


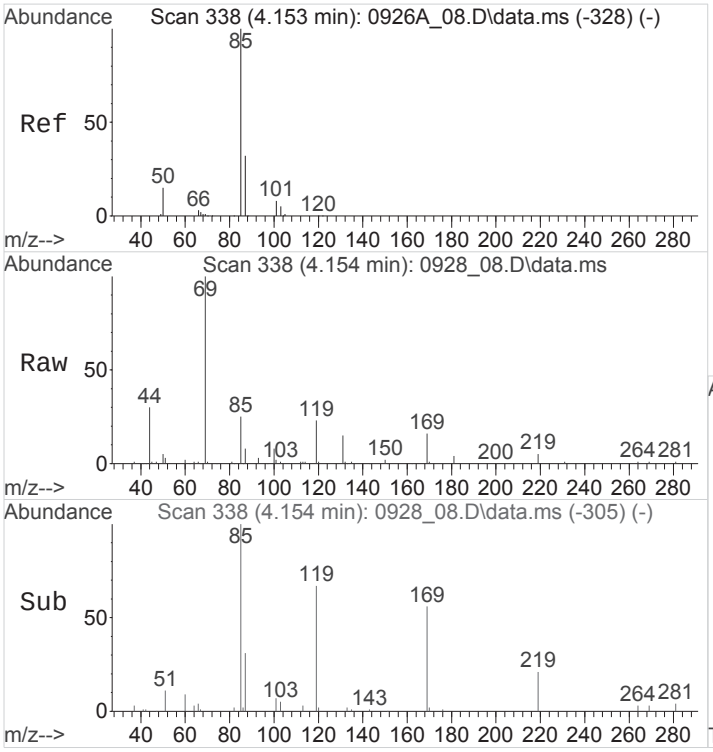


#3
1,1-DIFLUOROETHANE
Concen: 1.4838575 ppbv
RT: 4.103 min Scan# 330
Delta R.T. 0.005 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 65 Resp: 93625

Ion	Ratio	Lower	Upper
65	100		
51	175.0	154.7	232.1

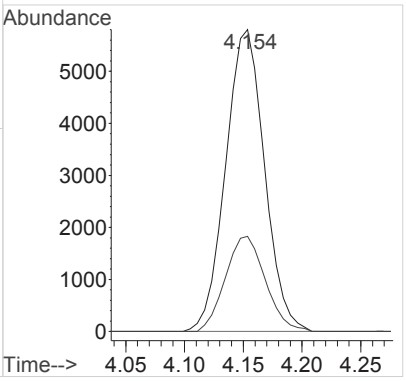


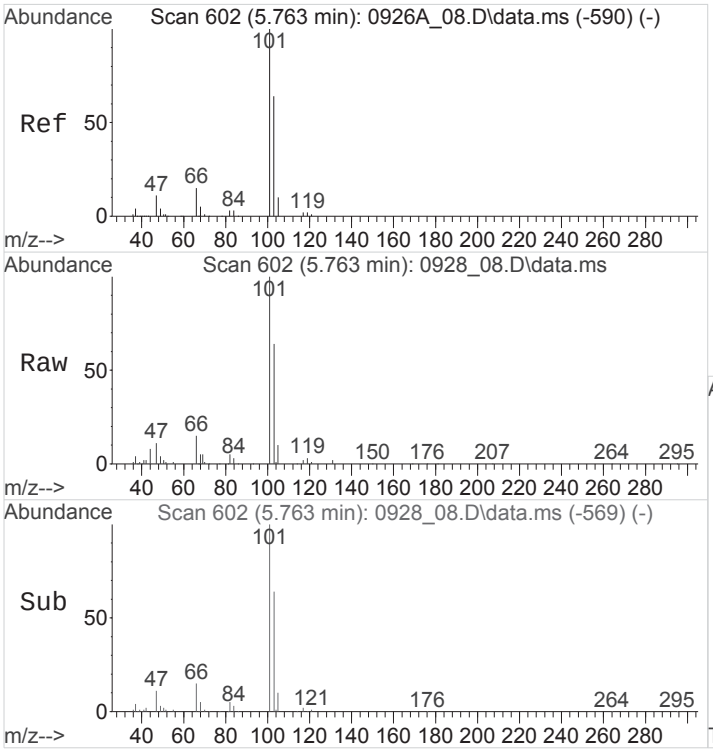


#4
Dichlorodifluoromethane
Concen: 0.6997963 ppbv
RT: 4.154 min Scan# 338
Delta R.T. 0.002 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 85 Resp: 133370

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.8	38.6

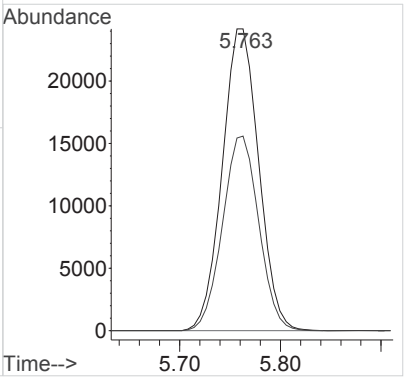


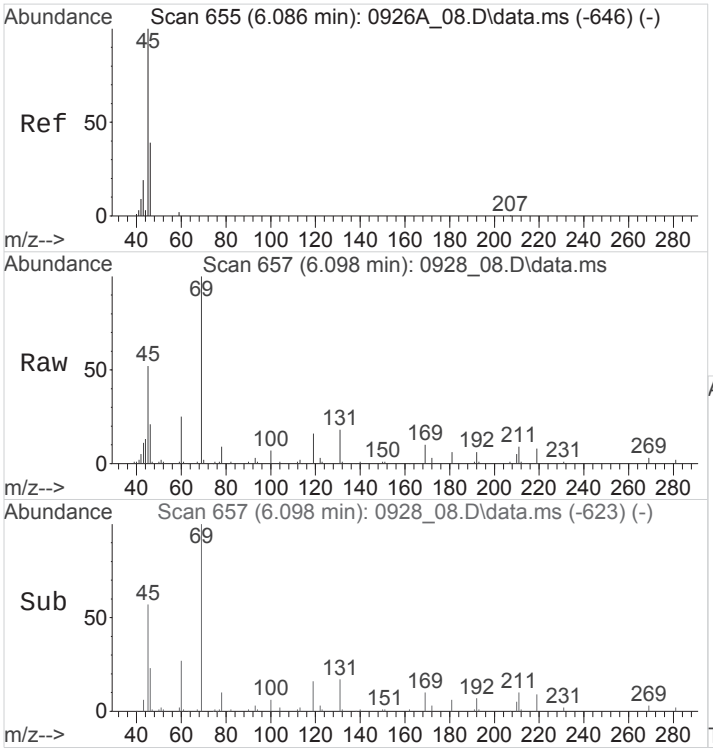


#13
Trichlorofluoromethane
Concen: 3.3071468 ppbv
RT: 5.763 min Scan# 602
Delta R.T. 0.002 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:101 Resp: 608372

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.7	77.5

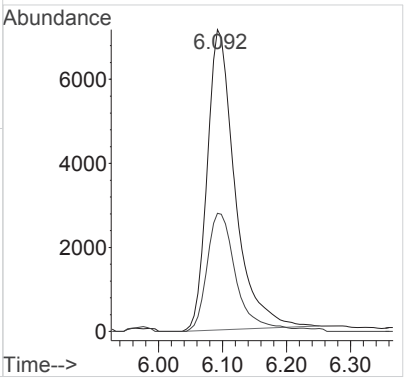


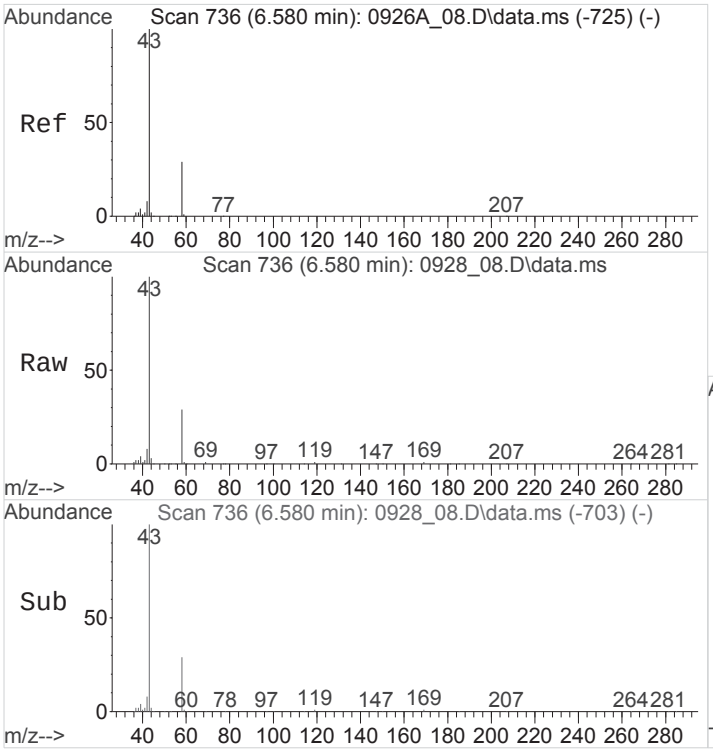


#14
Ethanol
Concen: 12.9722263 ppbv
RT: 6.097 min Scan# 657
Delta R.T. 0.009 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 45 Resp: 215530

Ion	Ratio	Lower	Upper
45	100		
46	39.7	33.0	49.4

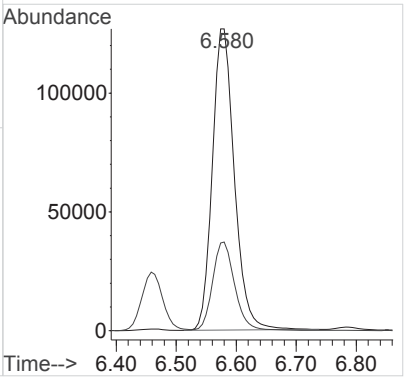


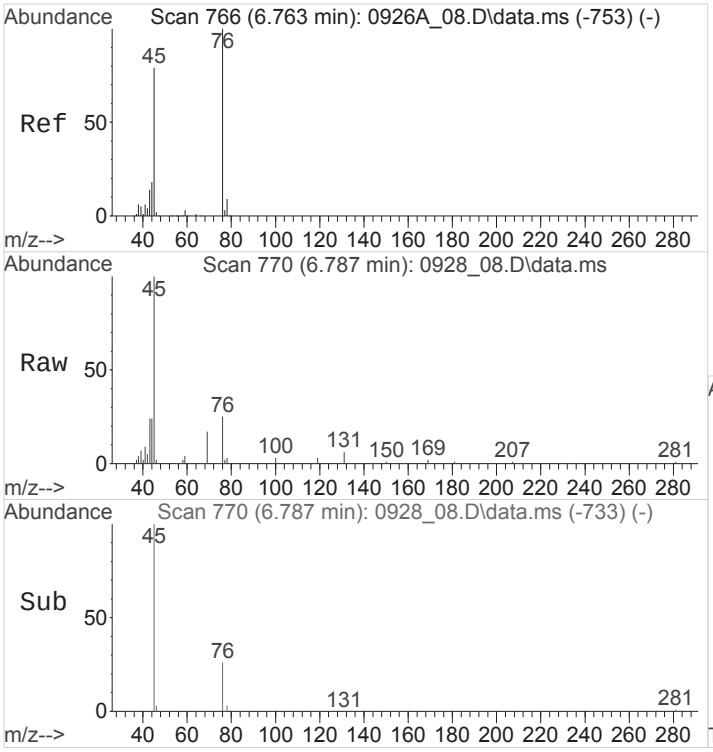


#17
Acetone
Concen: 10.9145041 ppbv
RT: 6.580 min Scan# 736
Delta R.T. 0.001 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 43 Resp: 3236822

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.1	34.7

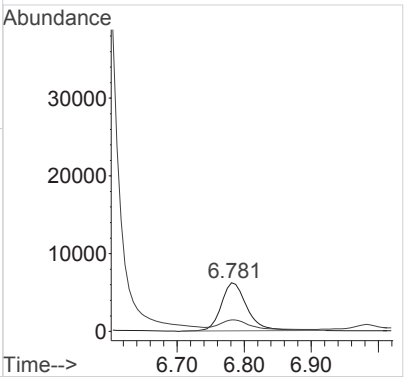


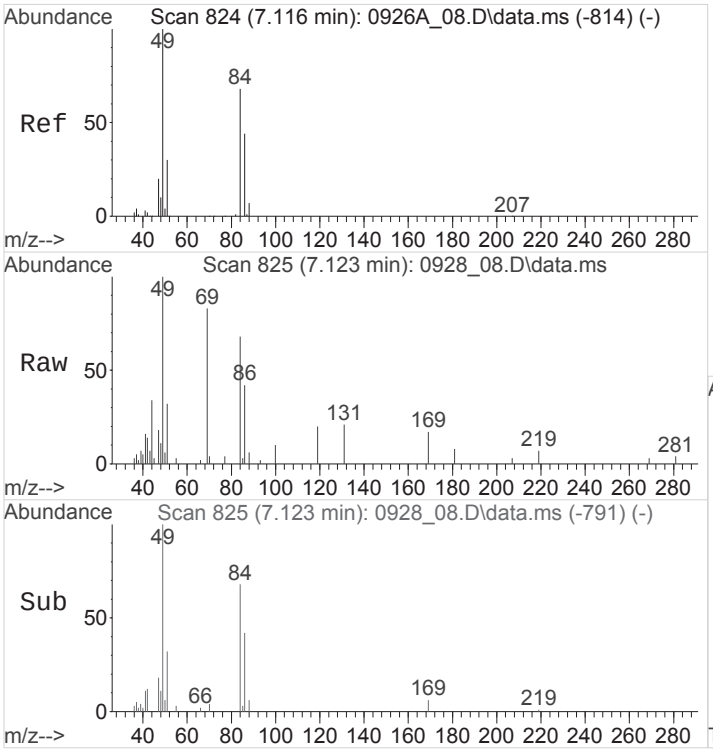


#18
2-Propanol
Concen: 0.8261232 ppbv
RT: 6.785 min Scan# 770
Delta R.T. 0.025 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 45 Resp: 165483

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

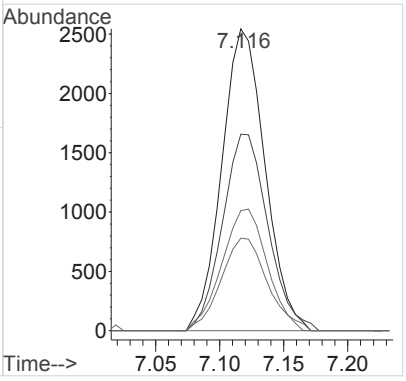


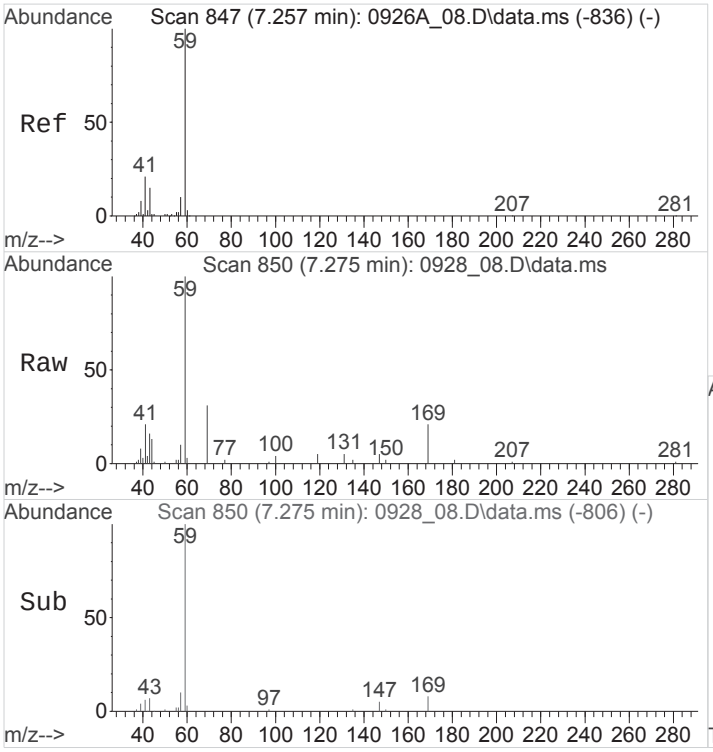


#21
Methylene Chloride
Concen: 0.4895507 ppbv
RT: 7.121 min Scan# 825
Delta R.T. 0.004 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 49 Resp: 59640

Ion	Ratio	Lower	Upper
49	100		
84	68.4	54.2	81.2
86	42.2	35.1	52.7
51	0.0	24.5	36.7#

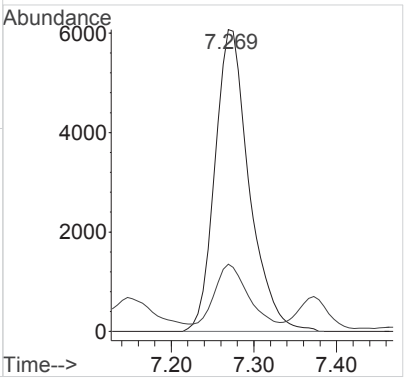


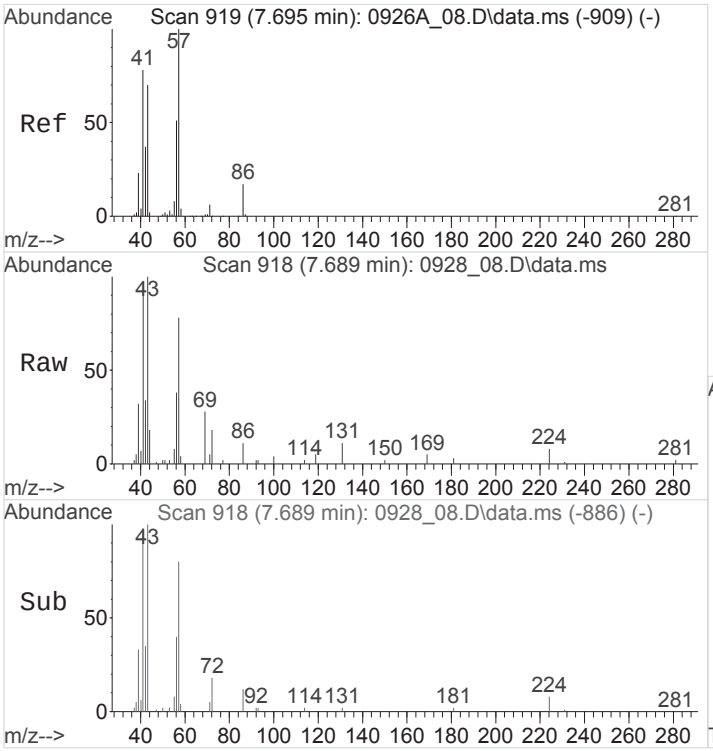


#22
TERT-BUTYL ALCOHOL
Concen: 0.7874448 ppbv
RT: 7.274 min Scan# 850
Delta R.T. 0.019 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 59 Resp: 175024

Ion	Ratio	Lower	Upper
59	100		
41	17.4	16.5	24.7

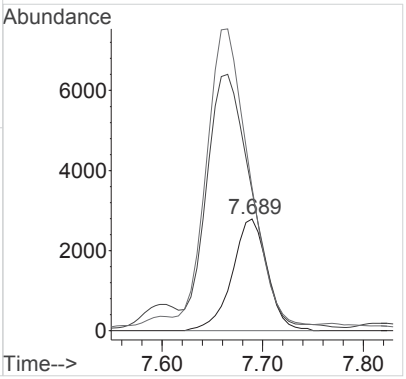


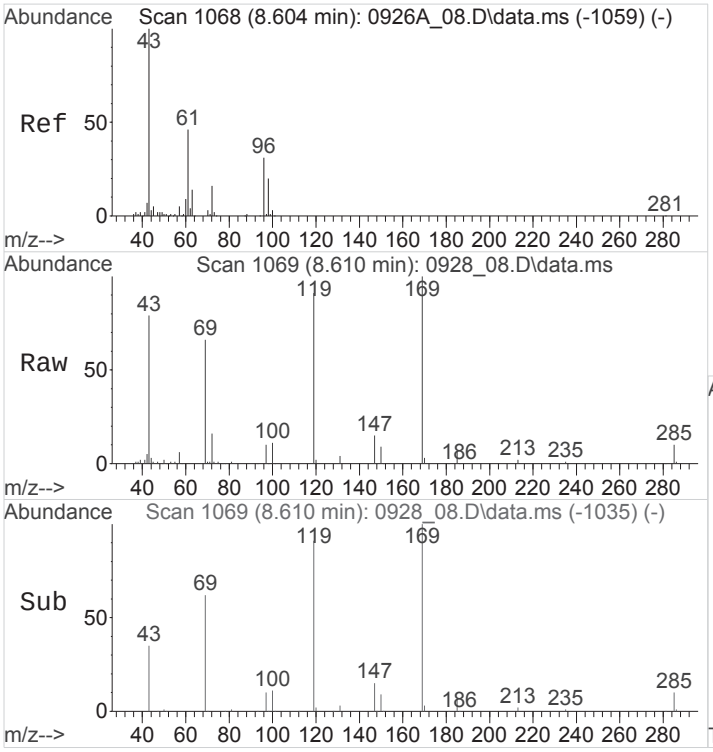


#25
n-Hexane
Concen: 0.4339088 ppbv
RT: 7.690 min Scan# 918
Delta R.T. -0.003 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 57 Resp: 68019

Ion	Ratio	Lower	Upper
57	100		
41	289.1	63.2	94.8#
43	323.8	56.0	84.0#

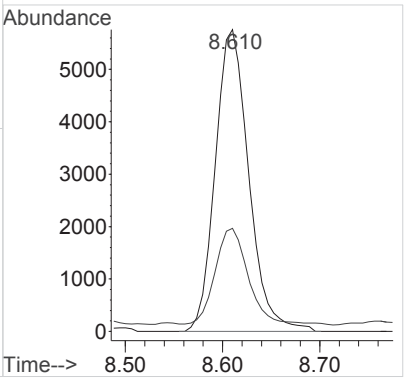


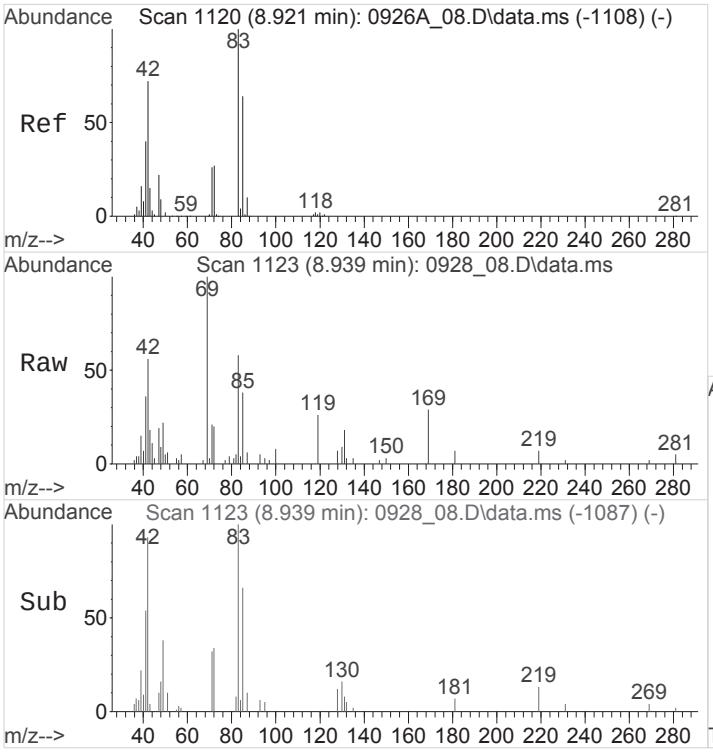


#29
2-Butanone (MEK)
Concen: 2.9995872 ppbv
RT: 8.611 min Scan# 1069
Delta R.T. 0.010 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 72 Resp: 137771

Ion	Ratio	Lower	Upper
72	100		
57	29.7	25.6	38.4

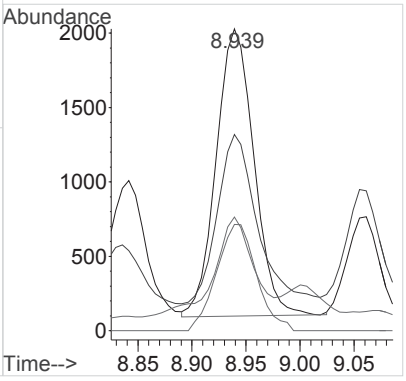


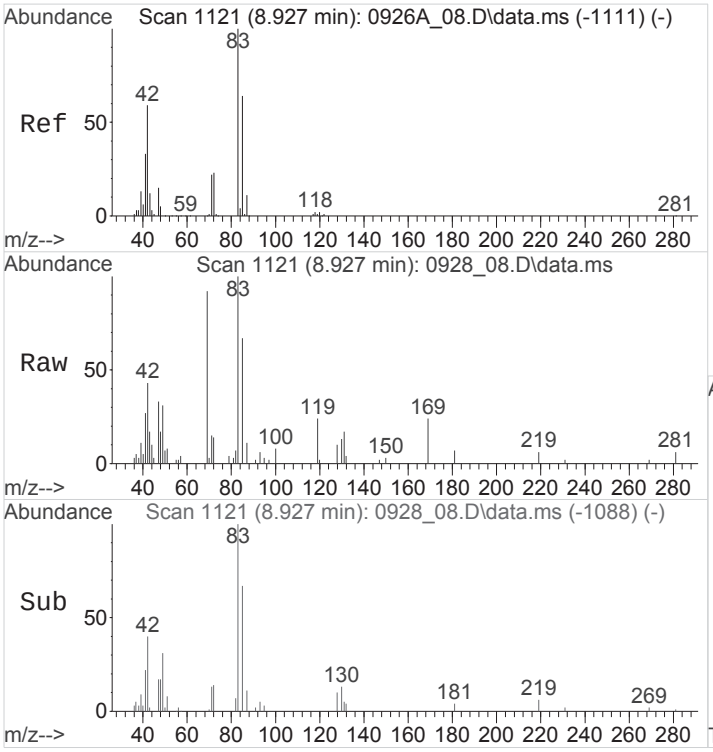


#31
Tetrahydrofuran
Concen: 0.3612473 ppbv
RT: 8.942 min Scan# 1123
Delta R.T. 0.023 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 42 Resp: 47008

Ion	Ratio	Lower	Upper
42	100		
41	58.3	44.2	66.4
72	0.0	29.6	44.4#
71	21.9	28.2	42.2#

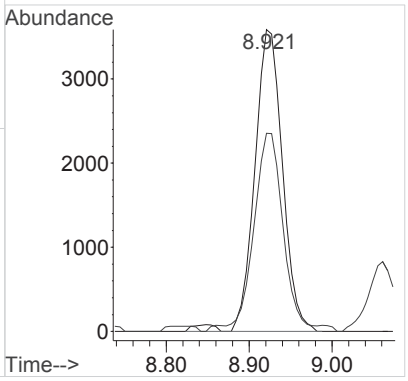


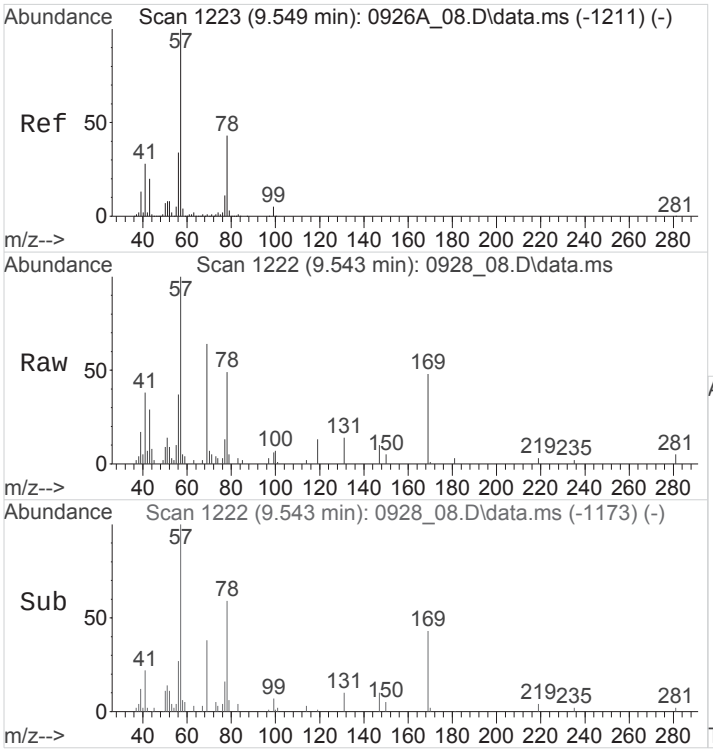


#32
Chloroform
Concen: 0.4808399 ppbv
RT: 8.926 min Scan# 1121
Delta R.T. -0.001 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 83 Resp: 84096

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.6

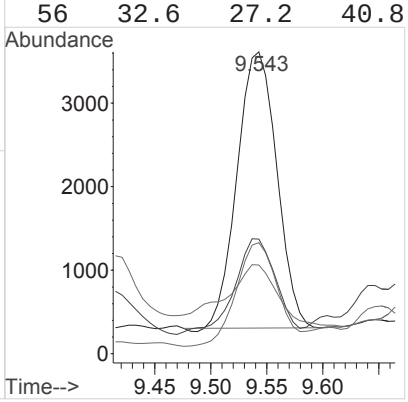


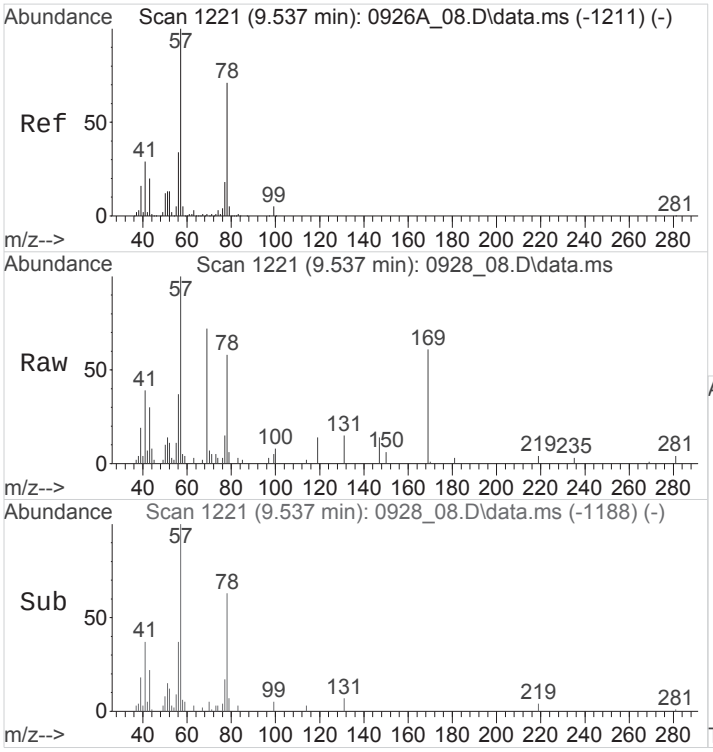


#36
2,2,4-Trimethylpentane
Concen: 0.1553033 ppbv
RT: 9.544 min Scan# 1222
Delta R.T. -0.003 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 57 Resp: 81355

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	32.6	27.2	40.8

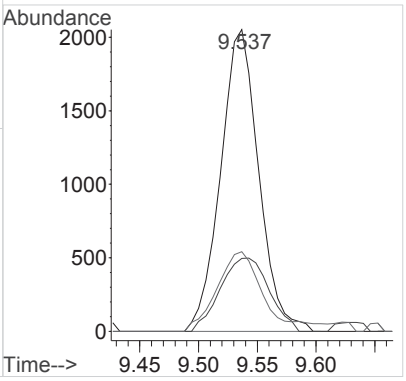


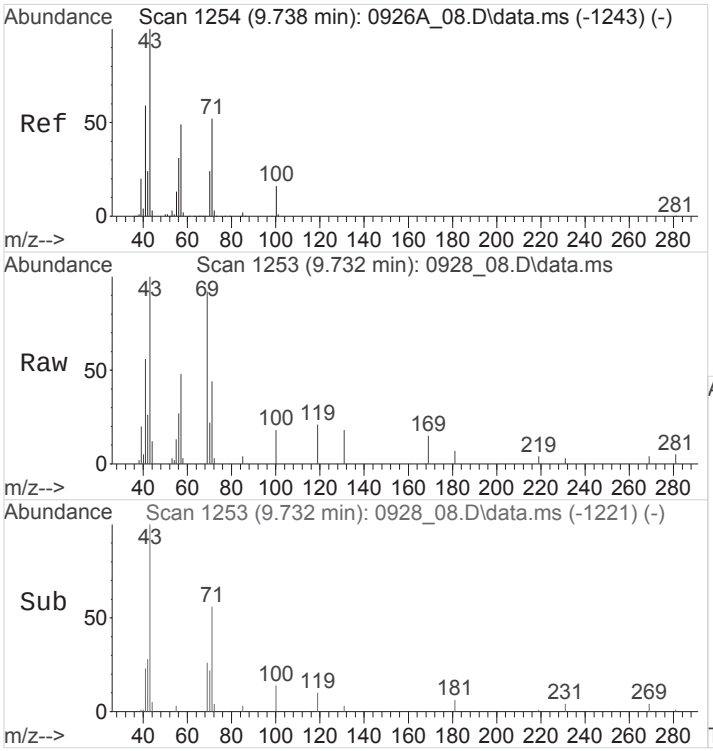


#38
Benzene
Concen: 0.1469295 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 78 Resp: 46301

Ion	Ratio	Lower	Upper
78	100		
51	0.0	15.4	23.0#
77	0.0	19.9	29.9#

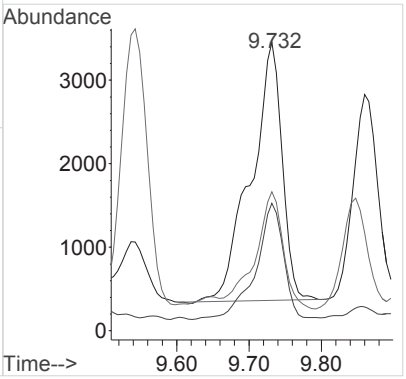


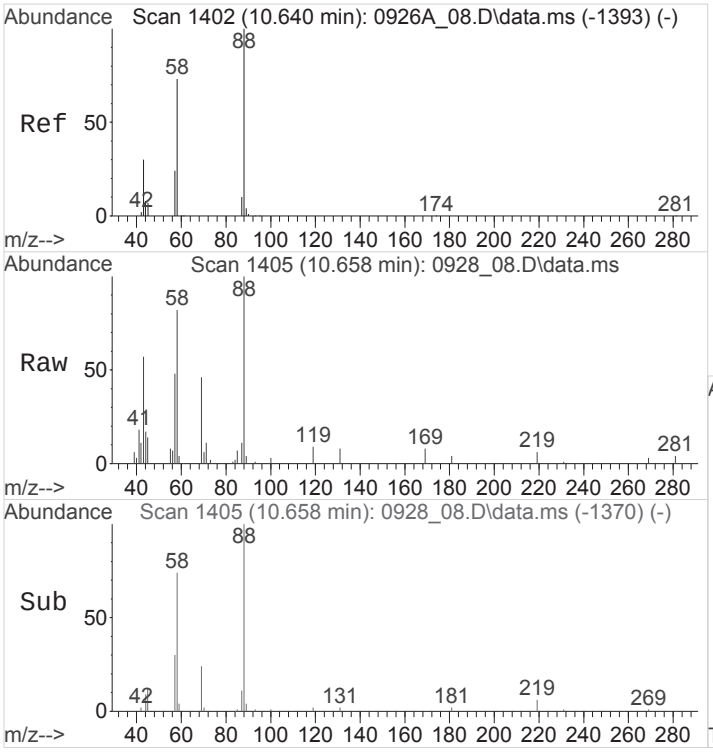


#40
Heptane
Concen: 0.4237059 ppbv
RT: 9.733 min Scan# 1253
Delta R.T. -0.004 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 43 Resp: 92201

Ion	Ratio	Lower	Upper
43	100		
71	39.3	41.4	62.0#
57	0.0	39.3	58.9#

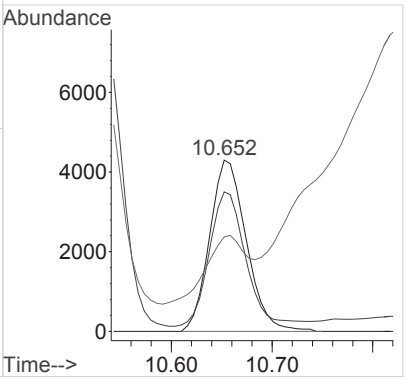


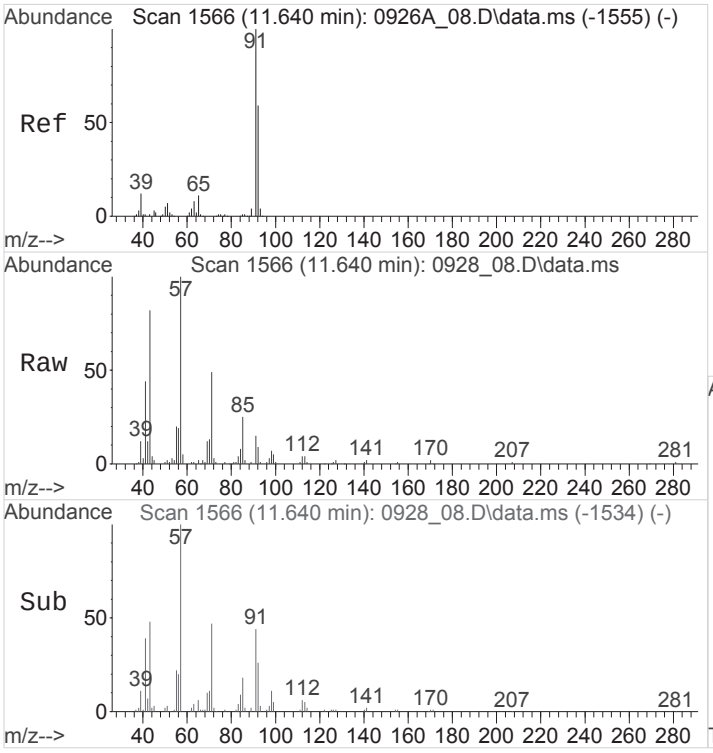


#46
1,4-Dioxane
Concen: 1.9816821 ppbv
RT: 10.657 min Scan# 1405
Delta R.T. 0.015 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 88 Resp: 108866

Ion	Ratio	Lower	Upper
88	100		
58	73.1	58.7	88.1
43	0.0	0.0	0.0

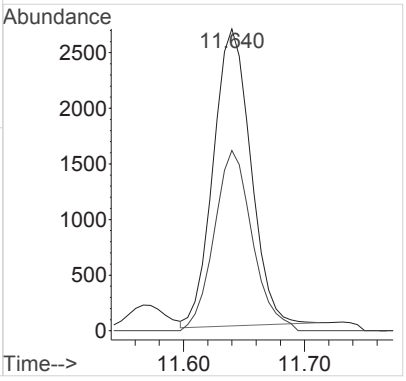


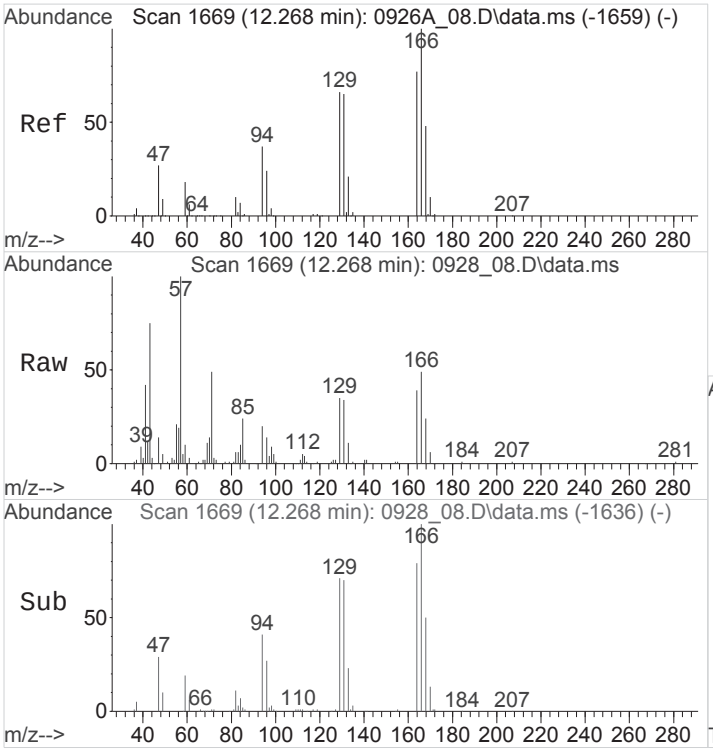


#50
Toluene
Concen: 0.1533550 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 91 Resp: 57641

Ion	Ratio	Lower	Upper
91	100		
92	61.7	46.6	70.0

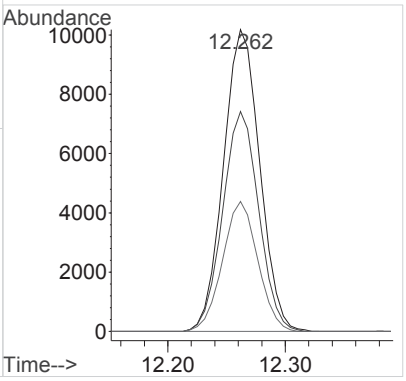


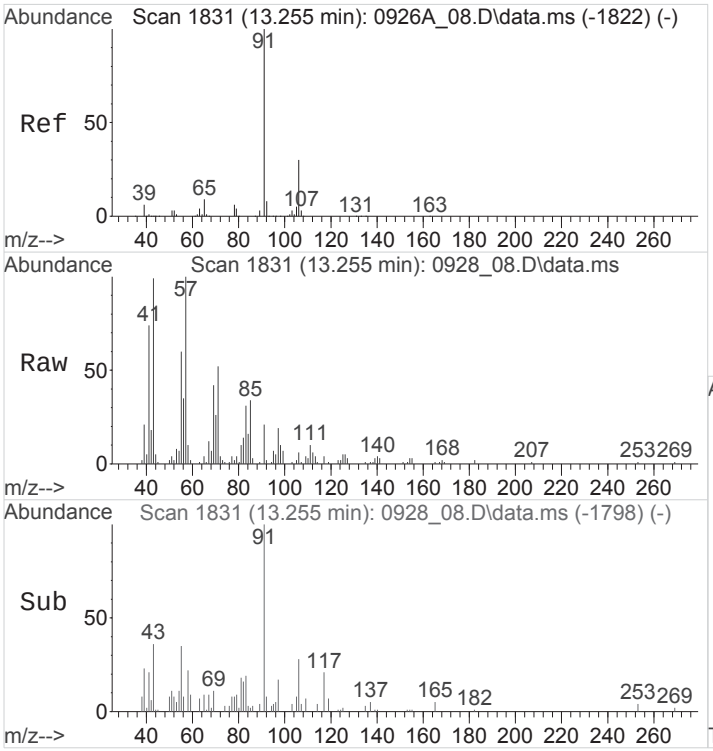


#53
Tetrachloroethene
Concen: 1.3794208 ppbv
RT: 12.265 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:166 Resp: 218789

Ion	Ratio	Lower	Upper
166	100		
129	72.3	55.0	82.6
94	42.0	31.3	46.9

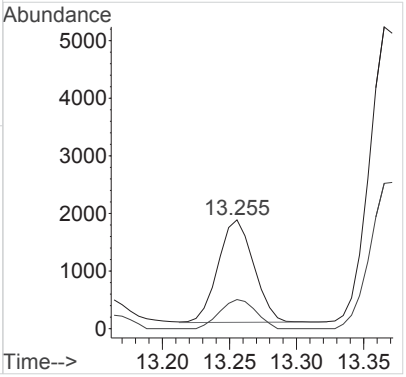


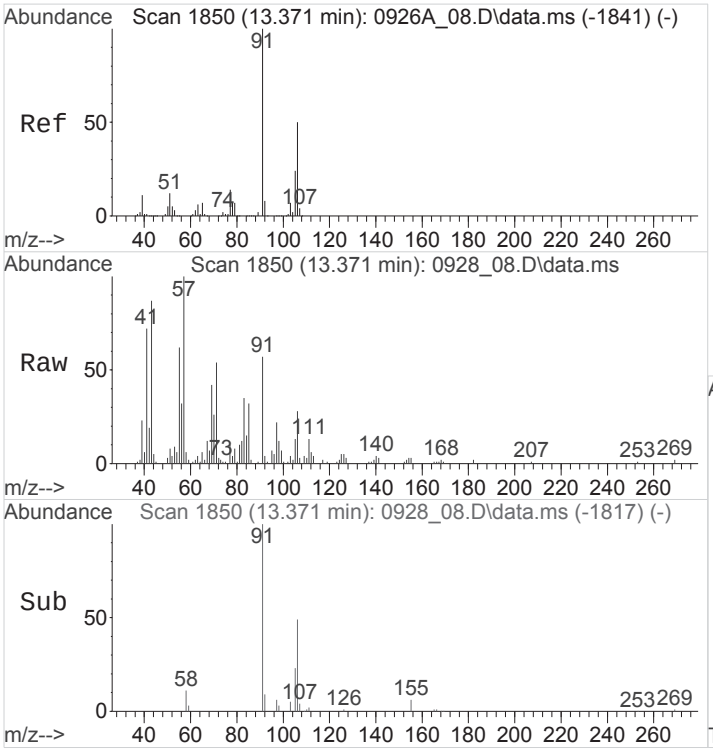


#59
Ethylbenzene
Concen: 0.0778157 ppbv
RT: 13.257 min Scan# 1831
Delta R.T. -0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 91 Resp: 32836

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

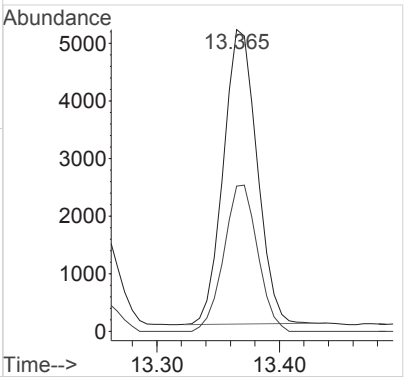


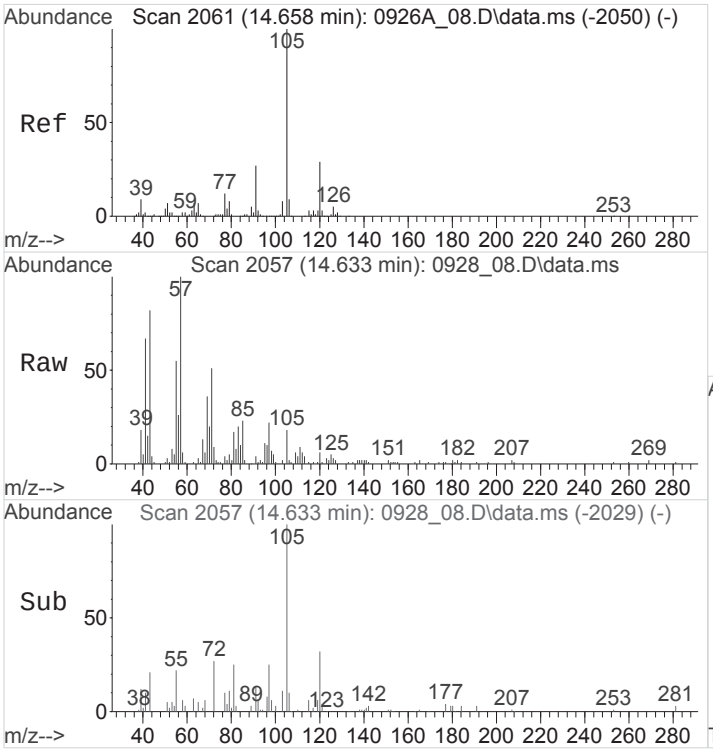


#60
M&P-Xylene
Concen: 0.3045694 ppbv
RT: 13.370 min Scan# 1850
Delta R.T. -0.002 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion: 91 Resp: 97127

Ion	Ratio	Lower	Upper
91	100		
106	49.9	39.8	59.6

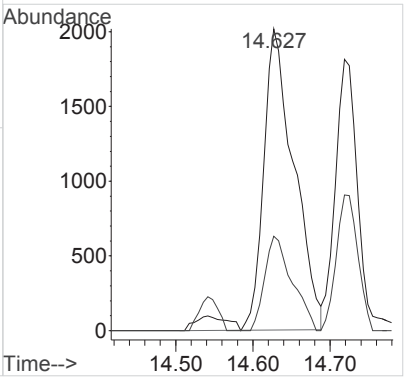


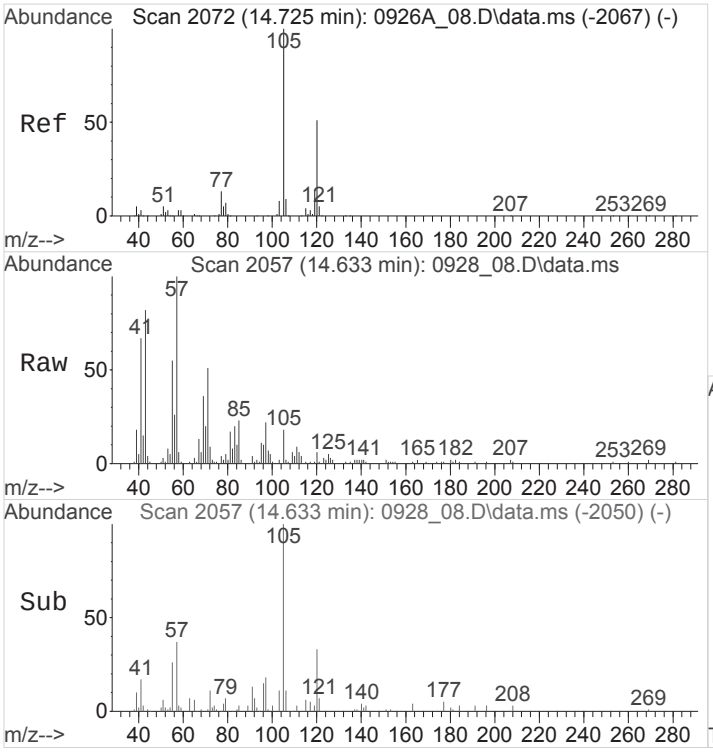


#67
4-Ethyltoluene
Concen: 0.1322543 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.030 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:105 Resp: 57108

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

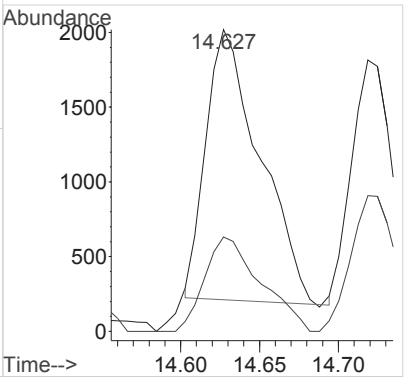


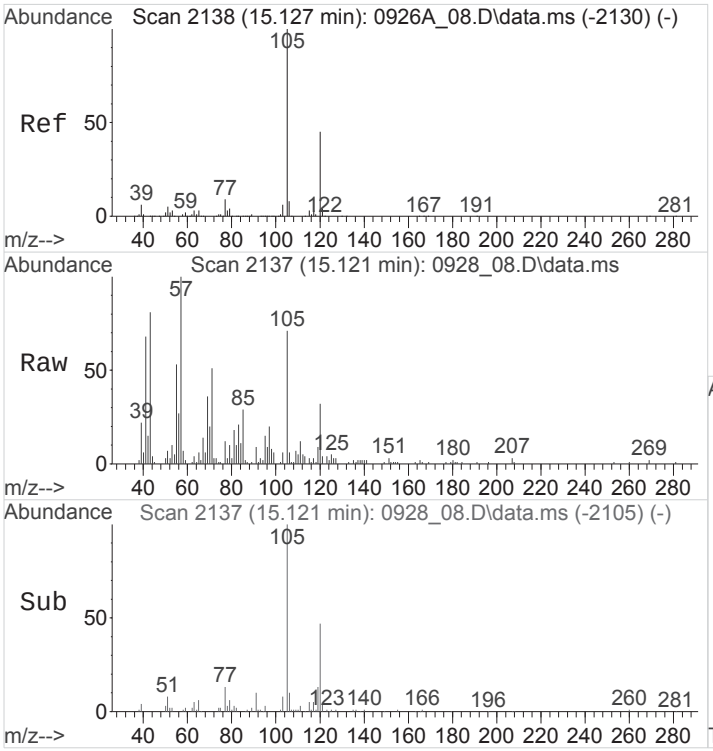


#70
1,3,5-Trimethylbenzene
Concen: 0.1192304 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.093 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:105 Resp: 43444

Ion	Ratio	Lower	Upper
105	100		
120	0.0	40.2	60.4#

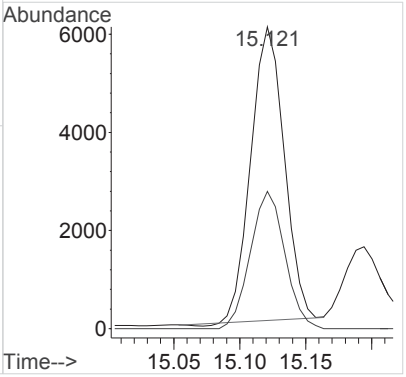


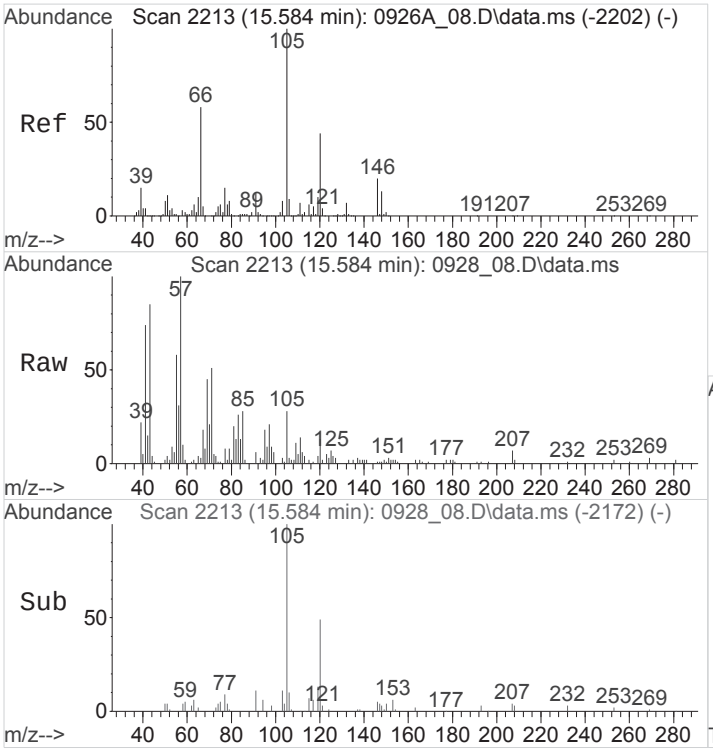


#72
1,2,4-Trimethylbenzene
Concen: 0.2910789 ppbv
RT: 15.124 min Scan# 2137
Delta R.T. -0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:105 Resp: 104673

Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.5	56.3

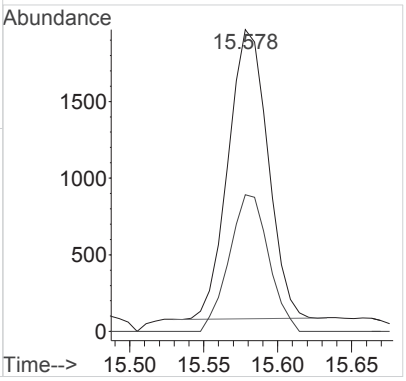


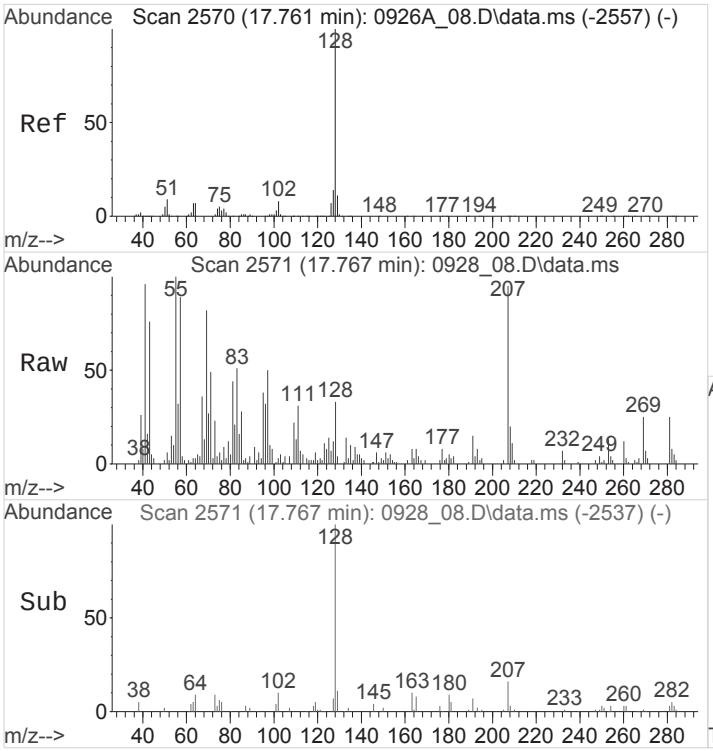


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.0963223 ppbv
RT: 15.582 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:105 Resp: 35146

Ion	Ratio	Lower	Upper
105	100		
120	0.0	34.6	52.0#

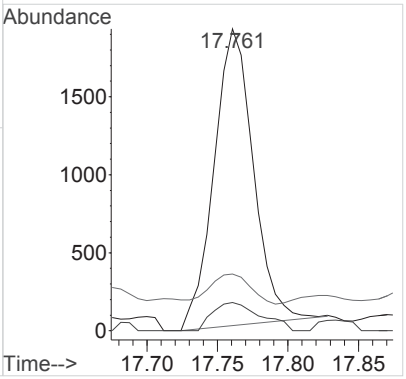


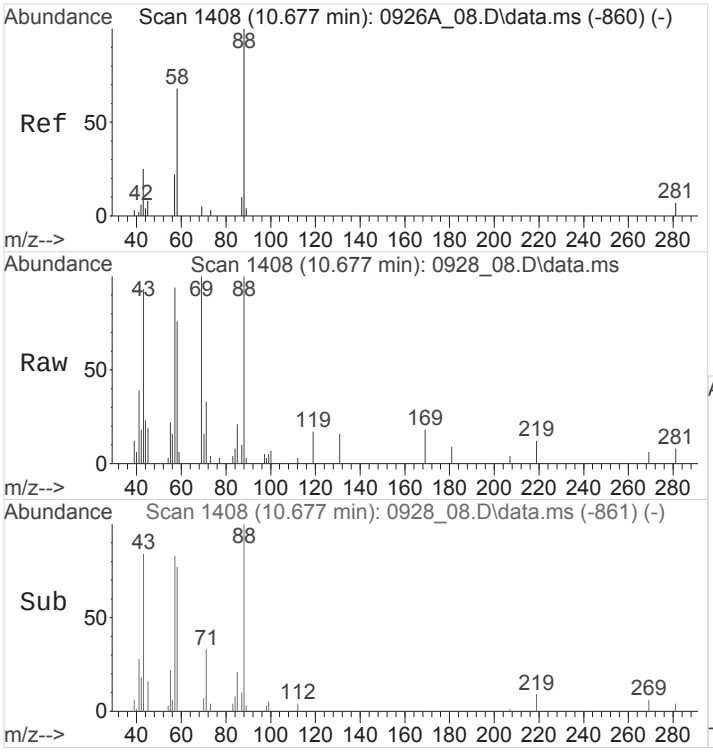


#83
Naphthalene
Concen: 0.1907690 ppbv
RT: 17.764 min Scan# 2571
Delta R.T. 0.004 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:128 Resp: 36593

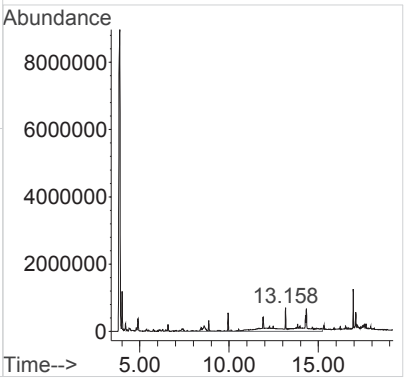
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 358.4371332 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_08.D
Acq: 28 Sep 2016 12:14 pm

Tgt Ion:TIC Resp:268861279



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_09.D
Acq On : 28 Sep 2016 12:59 pm
Operator : 564
Sample : L861822-05 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 2
InstName : AIRMS2

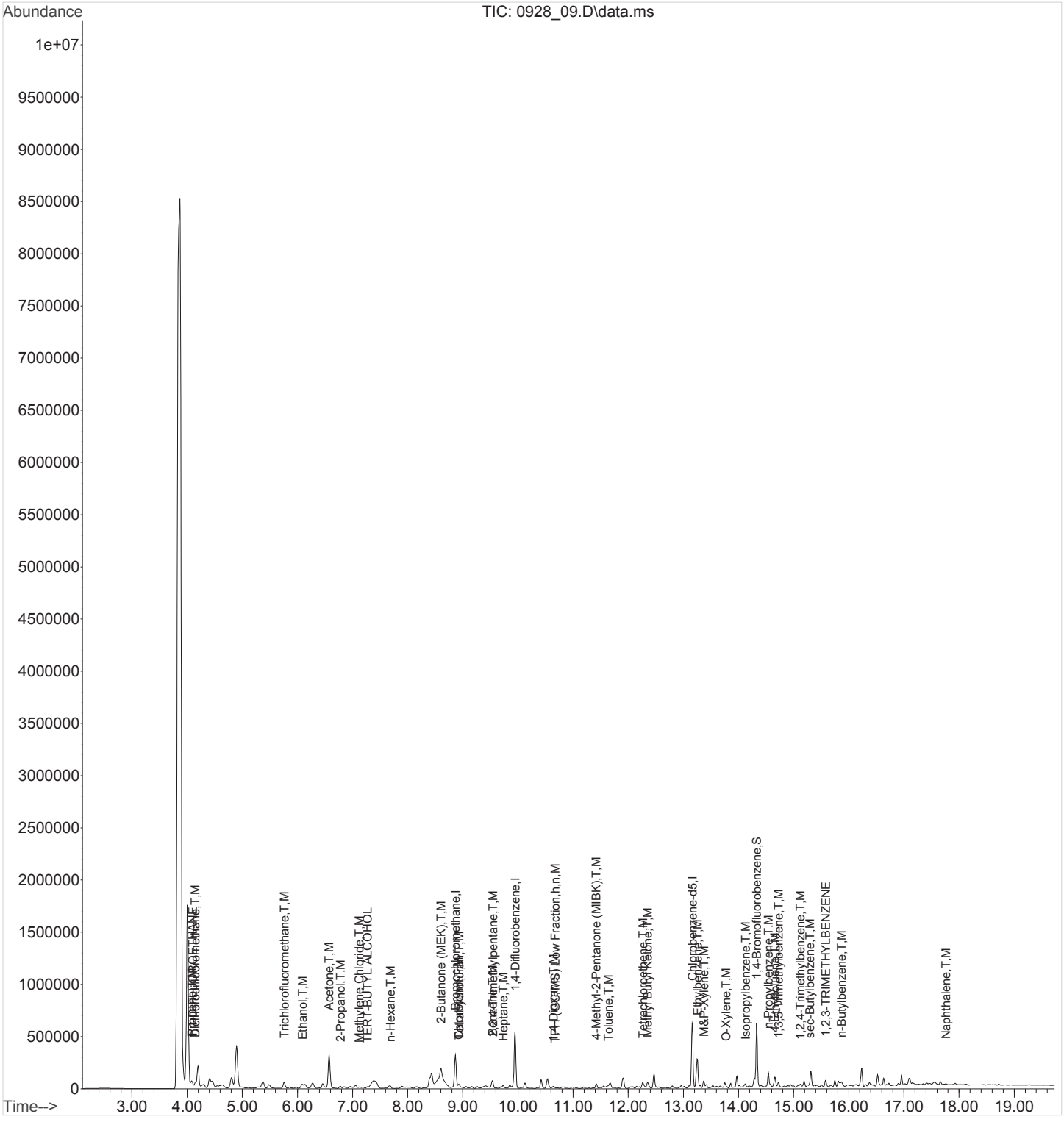
Quant Time: Sep 28 16:37:37 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

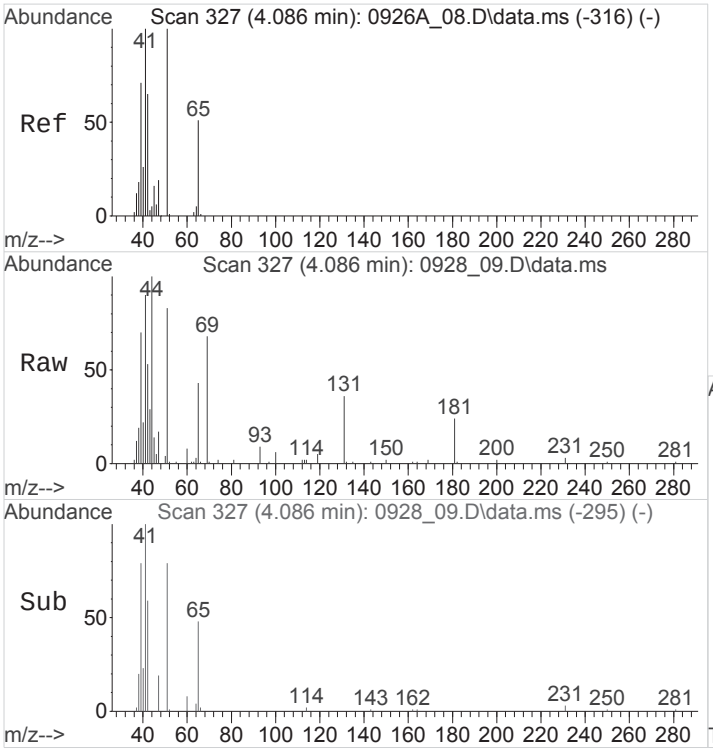
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.868	130	1157604	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.949	114	4823444	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	3637581	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.331	95	2369178	4.1922060	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 104.81%			
Target Compounds						Qvalue
2) Propene	4.085	41	215358	2.1626920	ppbv	91
3) 1,1-DIFLUOROETHANE	4.099	65	122752	1.9371321	ppbv	91
4) Dichlorodifluoromethane	4.150	85	133031	0.6950138	ppbv	99
13) Trichlorofluoromethane	5.760	101	604610	3.2725527	ppbv	100
14) Ethanol	6.092	45	280344	16.8006100	ppbv	99
17) Acetone	6.576	43	5170332	17.3592434	ppbv	99
18) 2-Propanol	6.780	45	283374	1.4085753	ppbv #	74
21) Methylene Chloride	7.121	49	76751	0.6272899	ppbv	98
22) TERT-BUTYL ALCOHOL	7.268	59	227211	1.0178404	ppbv	95
25) n-Hexane	7.690	57	101487	0.6446229	ppbv #	1
29) 2-Butanone (MEK)	8.606	72	287225	6.2266409	ppbv	98
31) Tetrahydrofuran	8.931	42	193057	1.4772099	ppbv	99
32) Chloroform	8.927	83	83208	0.4737152	ppbv	99
36) 2,2,4-Trimethylpentane	9.544	57	241314	0.4586761	ppbv #	88
38) Benzene	9.537	78	395084	1.2567057	ppbv	97
40) Heptane	9.734	43	179317	0.8259874	ppbv #	61
46) 1,4-Dioxane	10.648	88	156564	2.8566494	ppbv #	95
49) 4-Methyl-2-Pentanone (...	11.423	43	348261	1.2390322	ppbv	96
50) Toluene	11.642	91	108117	0.2883269	ppbv	99
53) Tetrachloroethene	12.265	166	214023	1.3525522	ppbv	96
54) Methyl Butyl Ketone	12.353	43	514512m	2.3974360	ppbv	
59) Ethylbenzene	13.256	91	1826469	4.1687686	ppbv	99
60) M&P-Xylene	13.371	91	354181	1.0696663	ppbv	100
61) O-Xylene	13.776	91	50515	0.1498290	ppbv	95
64) Isopropylbenzene	14.125	105	189884	0.4097802	ppbv #	90
66) n-Propylbenzene	14.544	91	1162456	2.1140222	ppbv	99
67) 4-Ethyltoluene	14.657	105	63168	0.1408918	ppbv #	46
70) 1,3,5-Trimethylbenzene	14.723	105	46393	0.1226258	ppbv #	27
72) 1,2,4-Trimethylbenzene	15.123	105	133798	0.3583456	ppbv	99
73) sec-Butylbenzene	15.293	105	118408	0.2049129	ppbv #	1
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	349339	0.9221022	ppbv	99
79) n-Butylbenzene	15.872	91	292204	0.6876218	ppbv #	90
83) Naphthalene	17.762	128	56372	0.2830454	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	115287677m	148.0275774	ppbv	

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

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_09.D
Acq On : 28 Sep 2016 12:59 pm
Operator : 564
Sample : L861822-05 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:37:37 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

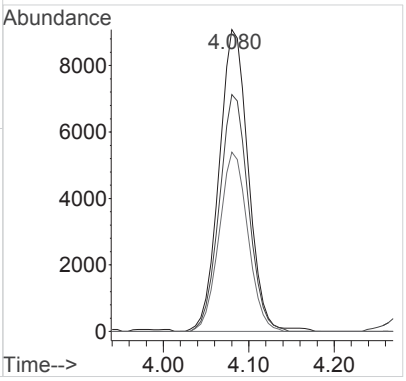


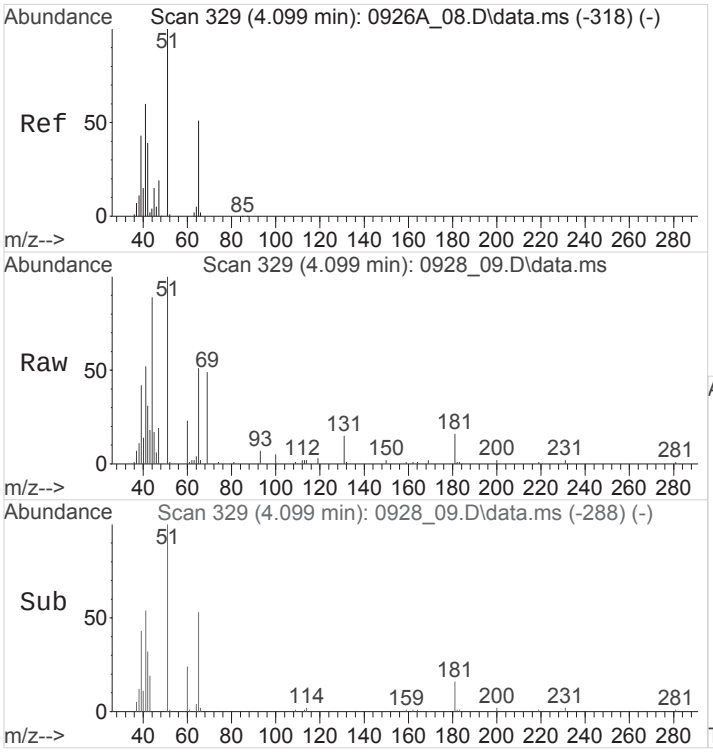


#2
Propene
Concen: 2.1626920 ppbv
RT: 4.085 min Scan# 327
Delta R.T. -0.004 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 41 Resp: 215358

Ion	Ratio	Lower	Upper
41	100		
39	78.0	56.5	84.7
42	58.4	52.2	78.4

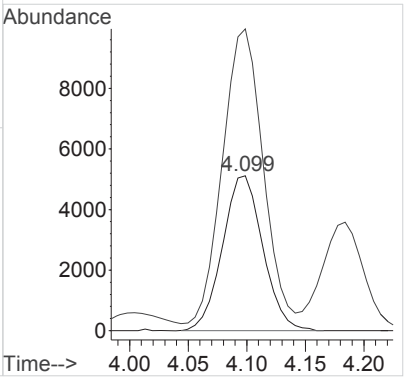


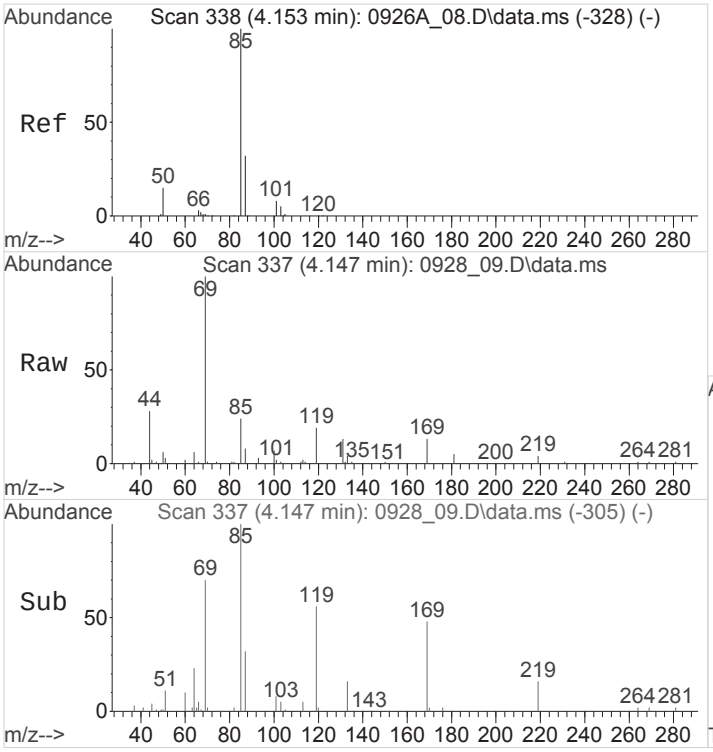


#3
1,1-DIFLUOROETHANE
Concen: 1.9371321 ppbv
RT: 4.099 min Scan# 329
Delta R.T. -0.000 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 65 Resp: 122752

Ion	Ratio	Lower	Upper
65	100		
51	180.2	154.7	232.1

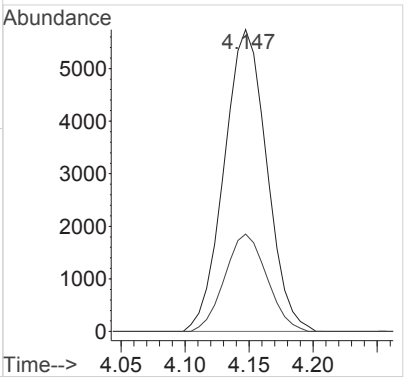


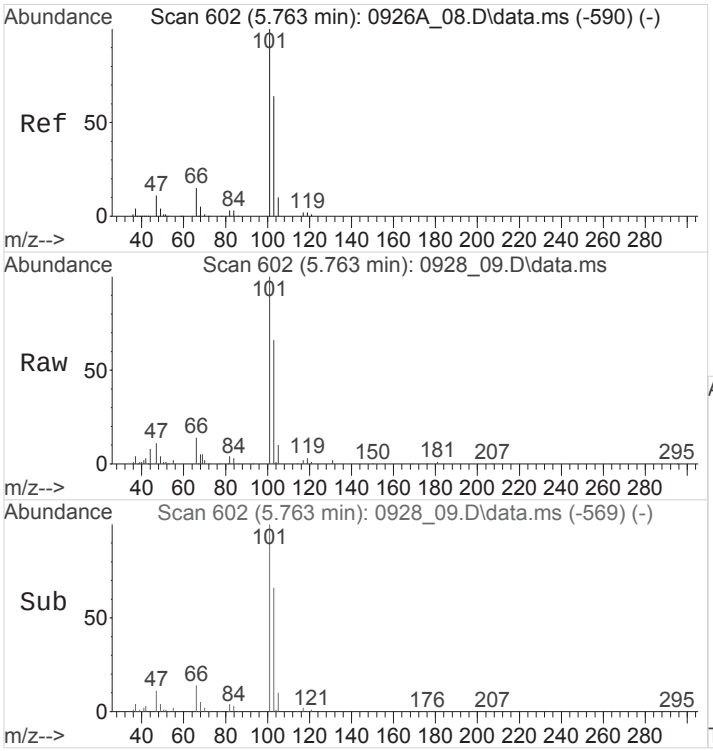


#4
Dichlorodifluoromethane
Concen: 0.6950138 ppbv
RT: 4.150 min Scan# 337
Delta R.T. -0.003 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 85 Resp: 133031

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.8	38.6

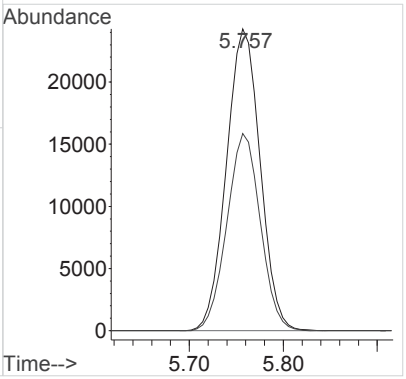


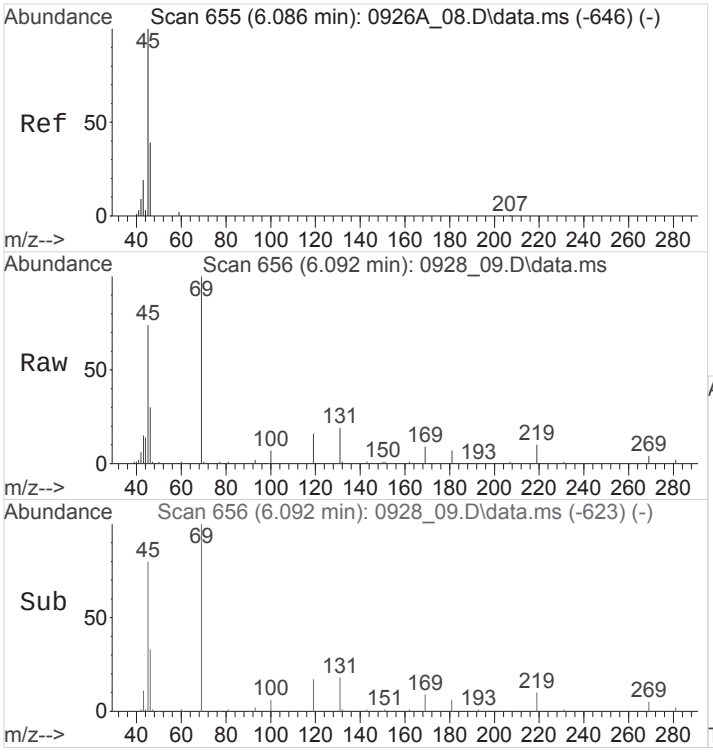


#13
Trichlorofluoromethane
Concen: 3.2725527 ppbv
RT: 5.760 min Scan# 602
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:101 Resp: 604610

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.7	77.5

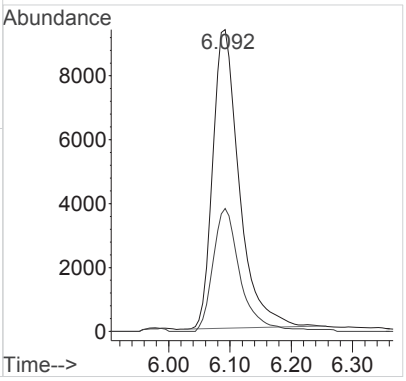


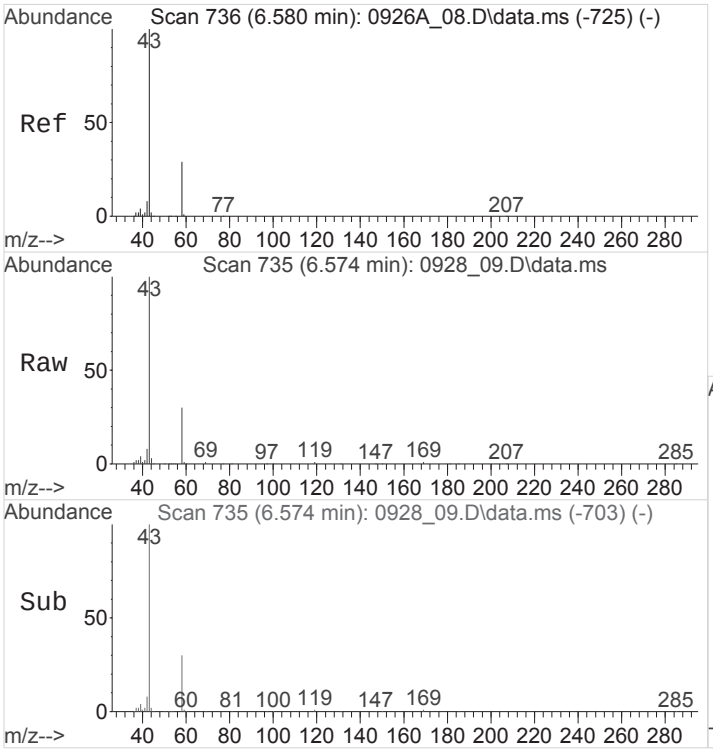


#14
Ethanol
Concen: 16.8006100 ppbv
RT: 6.092 min Scan# 656
Delta R.T. 0.004 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 45 Resp: 280344

Ion	Ratio	Lower	Upper
45	100		
46	40.8	33.0	49.4

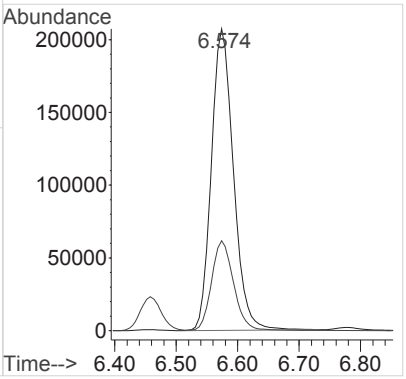


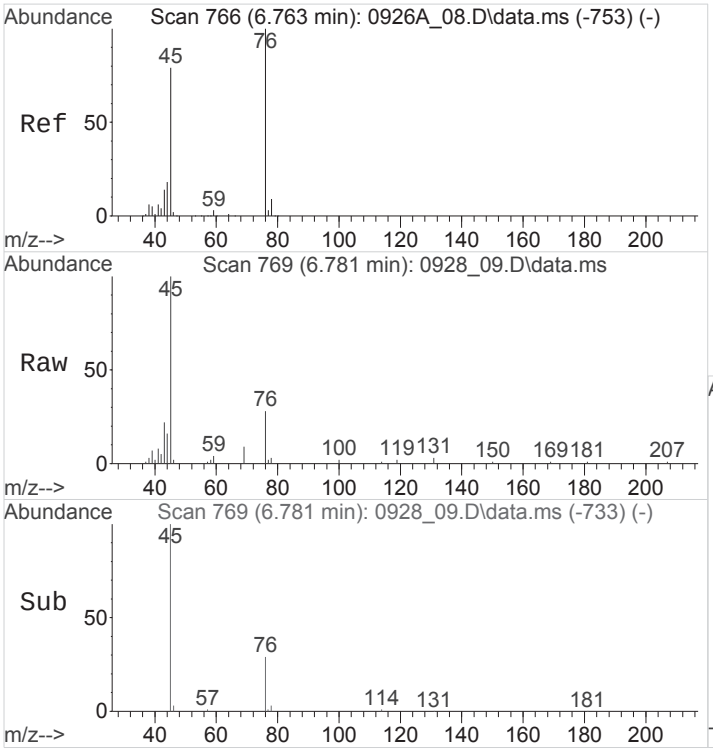


#17
Acetone
Concen: 17.3592434 ppbv
RT: 6.576 min Scan# 735
Delta R.T. -0.002 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 43 Resp: 5170332

Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.1	34.7

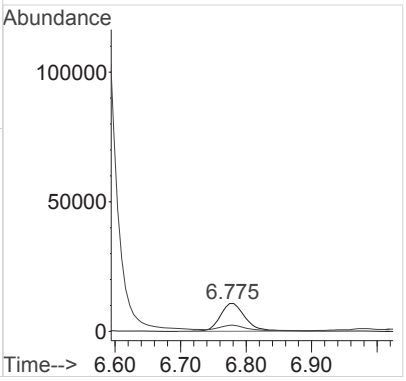


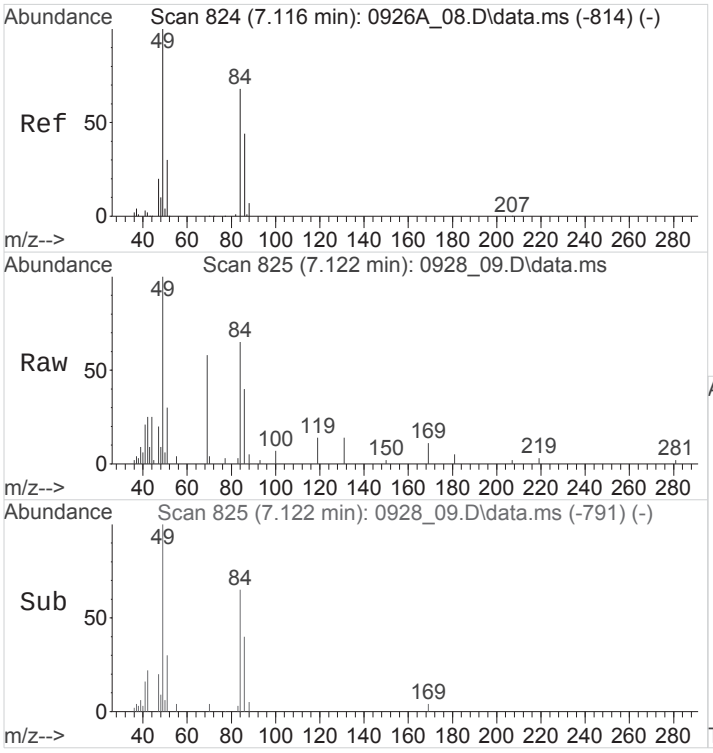


#18
2-Propanol
Concen: 1.4085753 ppbv
RT: 6.780 min Scan# 769
Delta R.T. 0.020 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 45 Resp: 283374

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

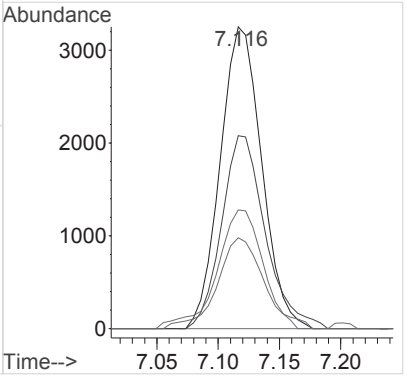


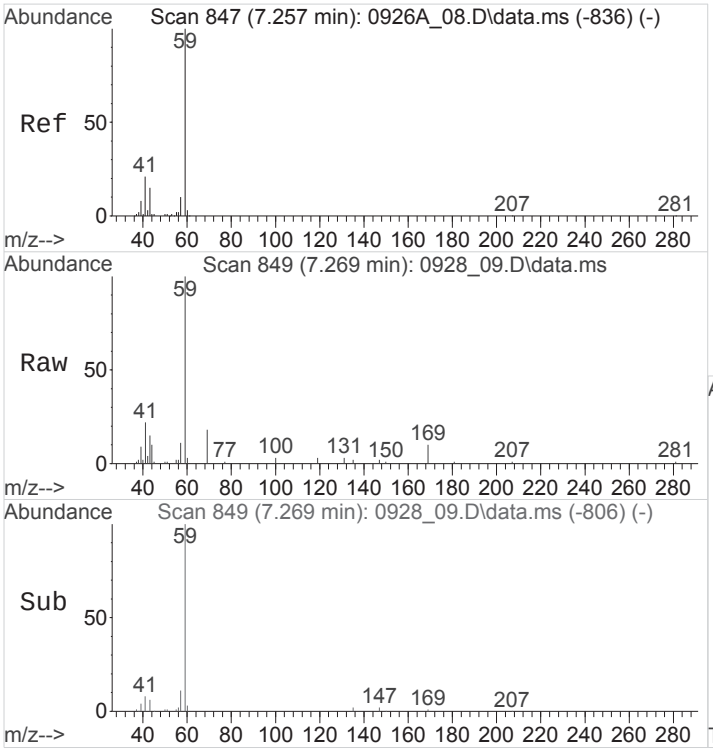


#21
Methylene Chloride
Concen: 0.6272899 ppbv
RT: 7.121 min Scan# 825
Delta R.T. 0.004 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 49 Resp: 76751

Ion	Ratio	Lower	Upper
49	100		
84	67.2	54.2	81.2
86	43.4	35.1	52.7
51	33.9	24.5	36.7

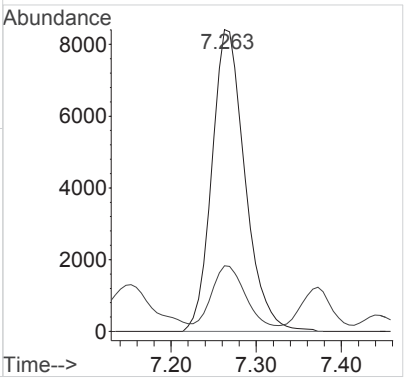


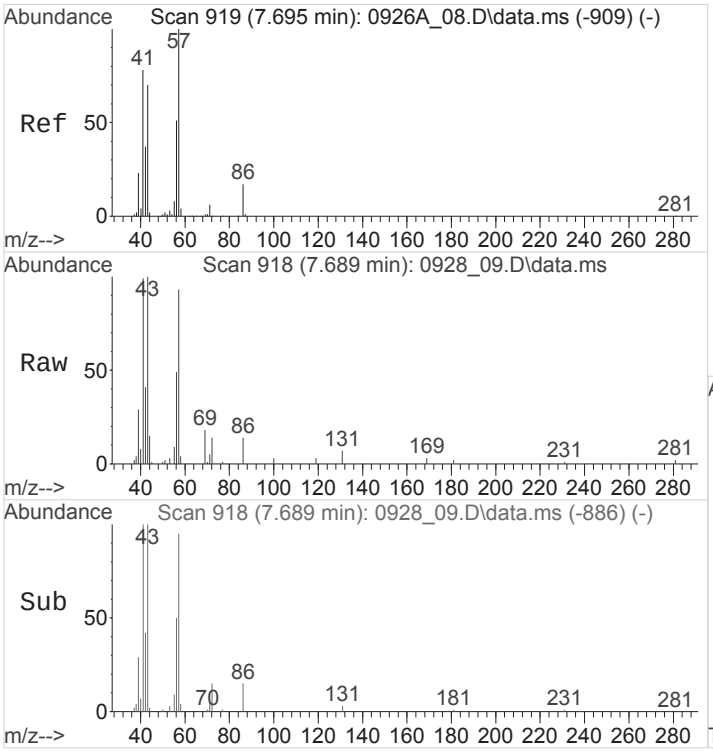


#22
TERT-BUTYL ALCOHOL
Concen: 1.0178404 ppbv
RT: 7.268 min Scan# 849
Delta R.T. 0.013 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 59 Resp: 227211

Ion	Ratio	Lower	Upper
59	100		
41	18.1	16.5	24.7

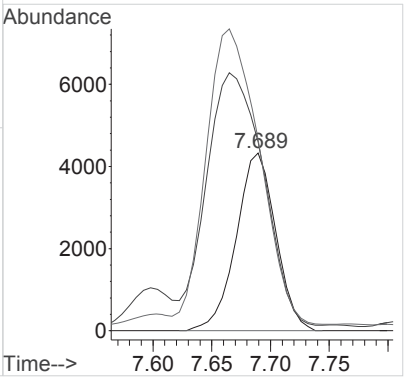


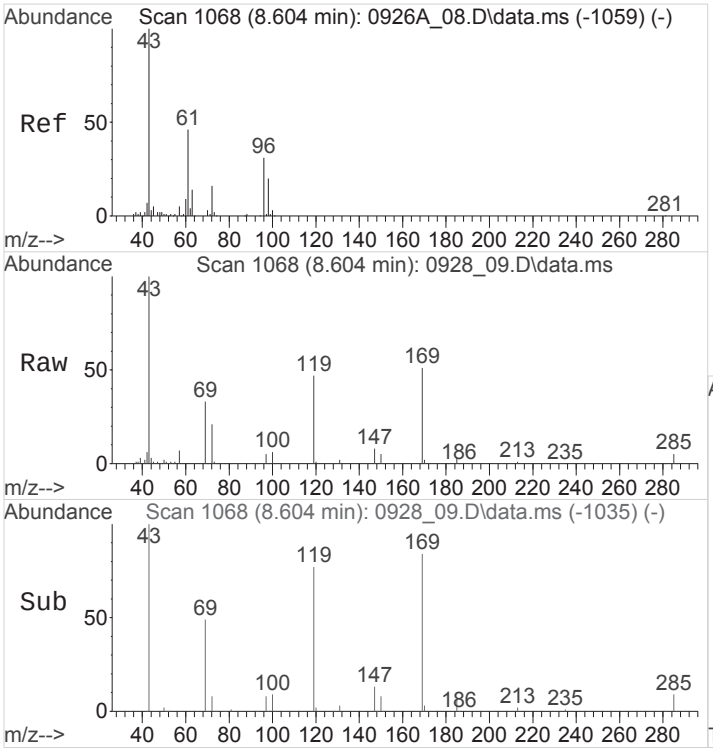


#25
n-Hexane
Concen: 0.6446229 ppbv
RT: 7.690 min Scan# 918
Delta R.T. -0.002 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 57 Resp: 101487

Ion	Ratio	Lower	Upper
57	100		
41	207.8	63.2	94.8#
43	229.7	56.0	84.0#

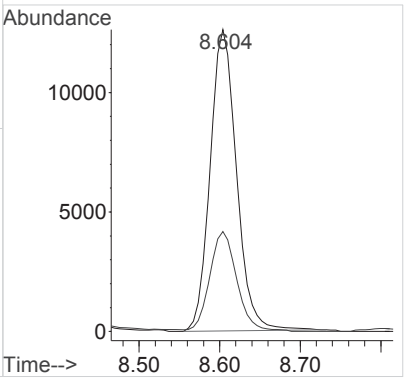


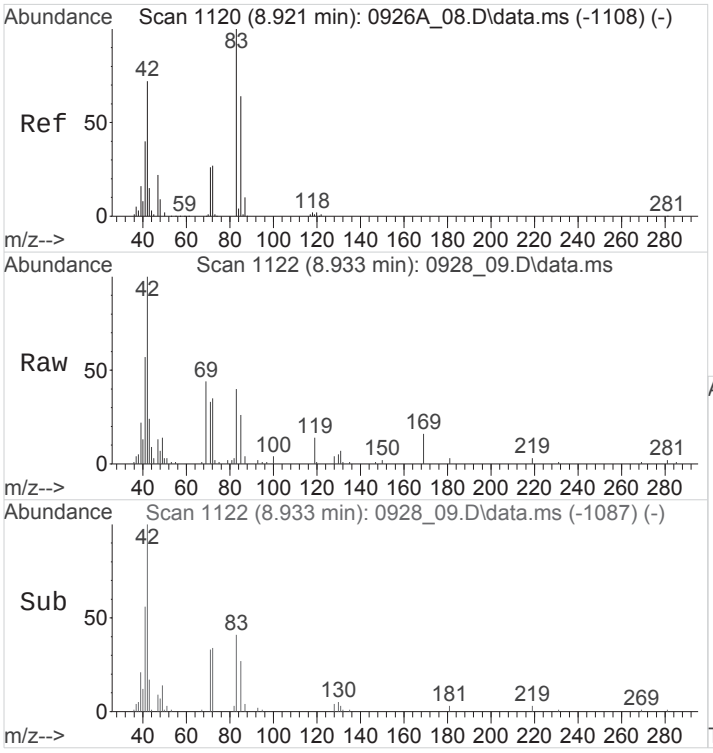


#29
2-Butanone (MEK)
Concen: 6.2266409 ppbv
RT: 8.606 min Scan# 1068
Delta R.T. 0.005 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 72 Resp: 287225

Ion	Ratio	Lower	Upper
72	100		
57	33.2	25.6	38.4

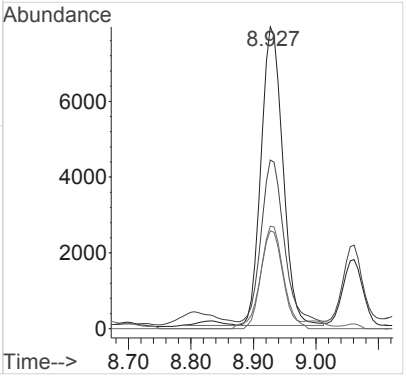


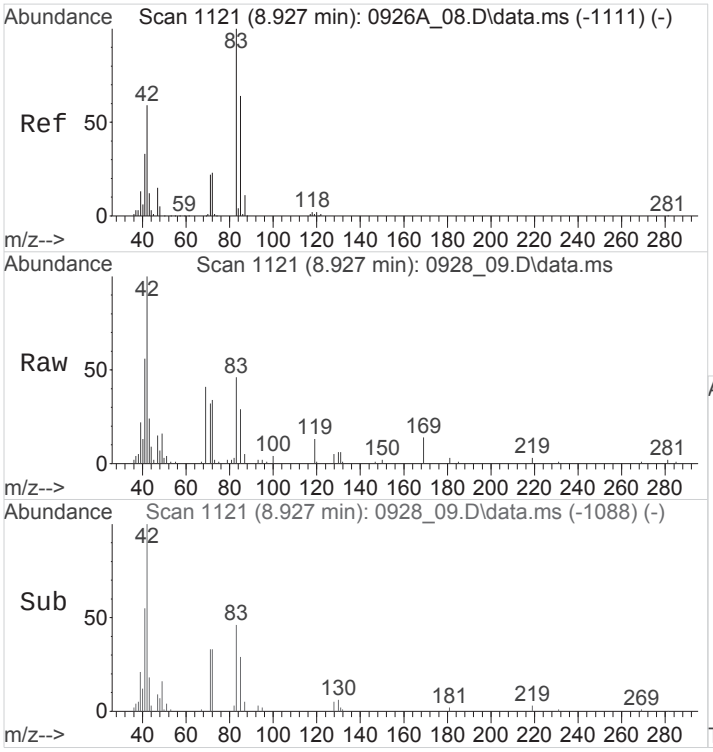


#31
Tetrahydrofuran
Concen: 1.4772099 ppbv
RT: 8.931 min Scan# 1122
Delta R.T. 0.012 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 42 Resp: 193057

Ion	Ratio	Lower	Upper
42	100		
41	55.2	44.2	66.4
72	34.5	29.6	44.4
71	34.8	28.2	42.2

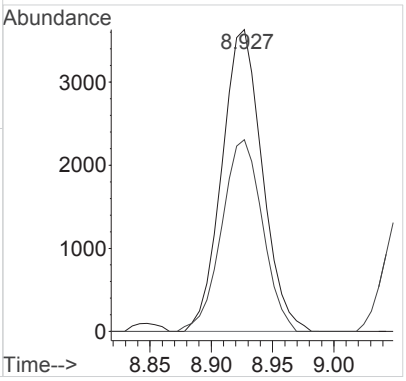


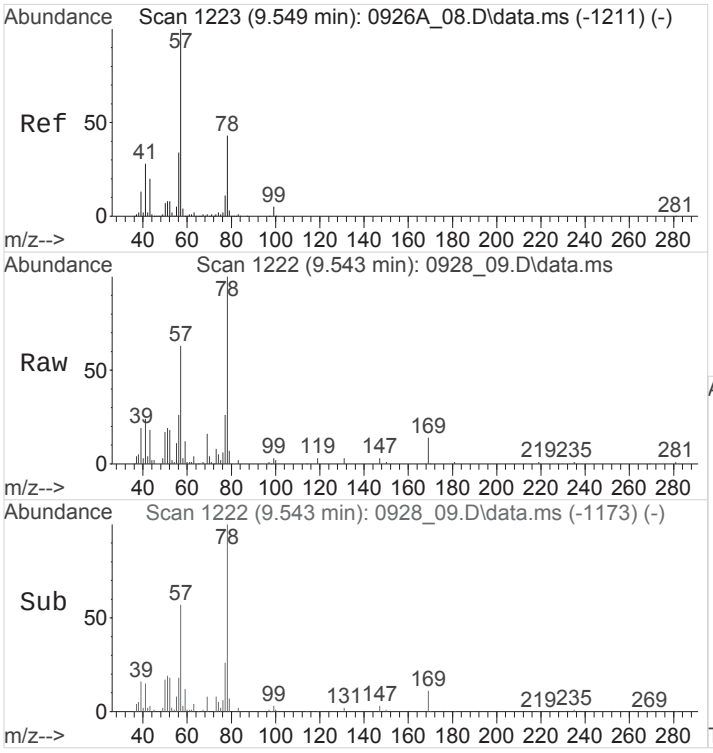


#32
Chloroform
Concen: 0.4737152 ppbv
RT: 8.927 min Scan# 1121
Delta R.T. 0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 83 Resp: 83208

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.6

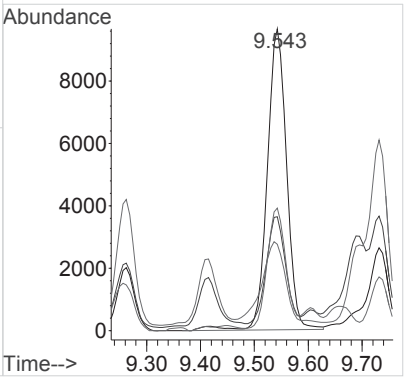


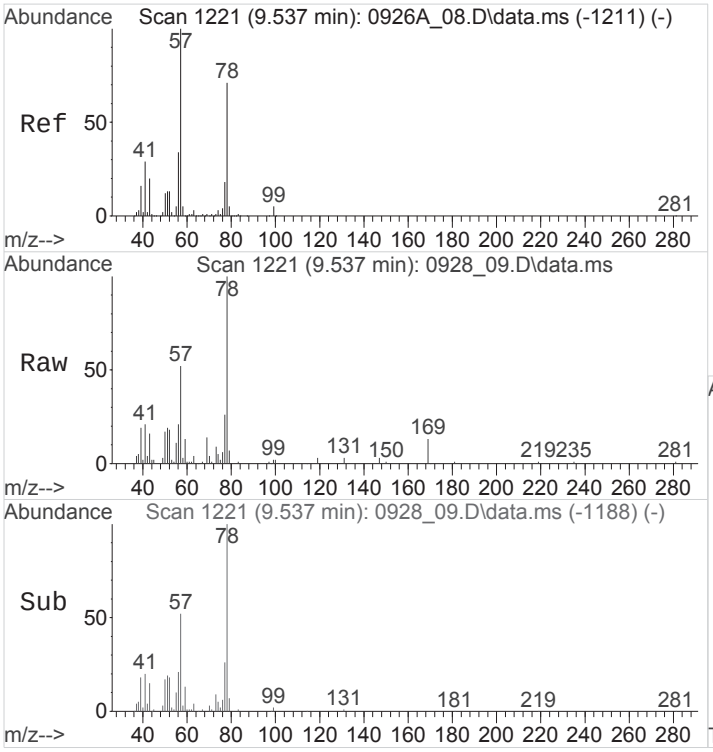


#36
2,2,4-Trimethylpentane
Concen: 0.4586761 ppbv
RT: 9.544 min Scan# 1222
Delta R.T. -0.002 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 57 Resp: 241314

Ion	Ratio	Lower	Upper
57	100		
41	37.2	22.7	34.1#
43	31.7	16.6	25.0#
56	32.7	27.2	40.8

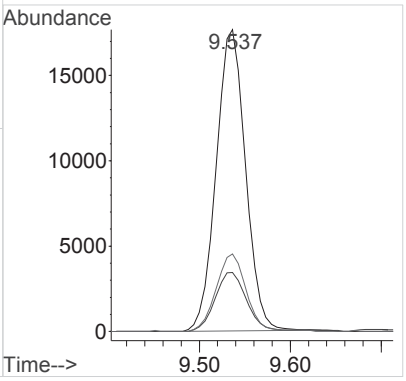


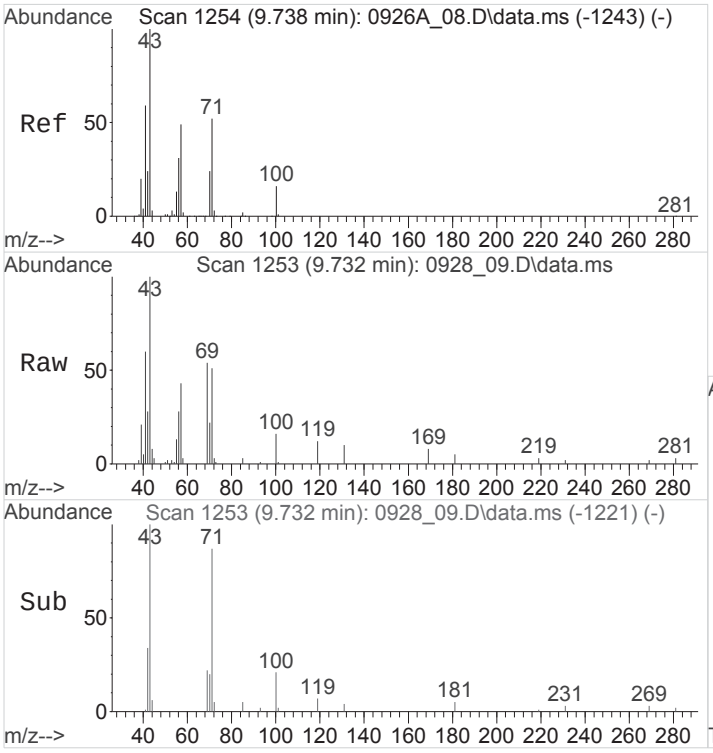


#38
Benzene
Concen: 1.2567057 ppbv
RT: 9.537 min Scan# 1221
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 78 Resp: 395084

Ion	Ratio	Lower	Upper
78	100		
51	20.4	15.4	23.0
77	26.5	19.9	29.9

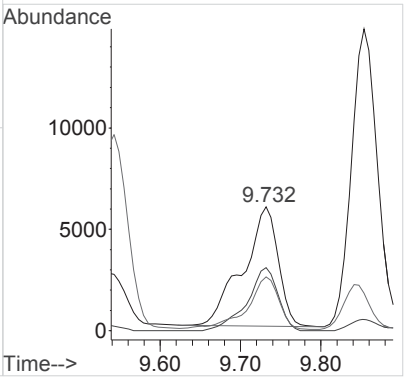


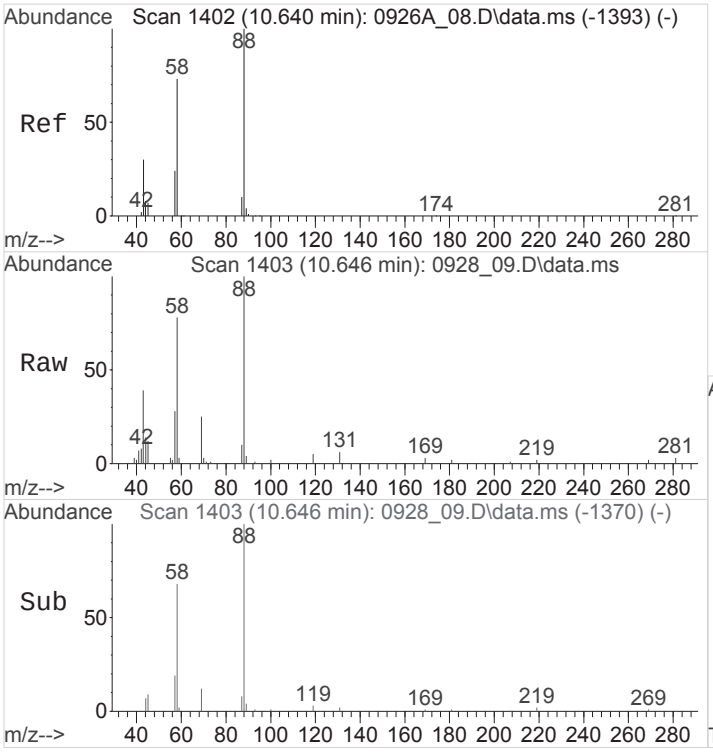


#40
Heptane
Concen: 0.8259874 ppbv
RT: 9.734 min Scan# 1253
Delta R.T. -0.003 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 43 Resp: 179317

Ion	Ratio	Lower	Upper
43	100		
71	46.3	41.4	62.0
57	0.0	39.3	58.9#

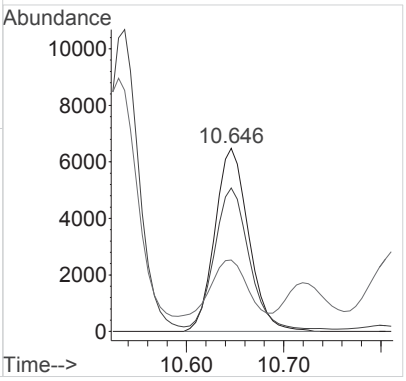


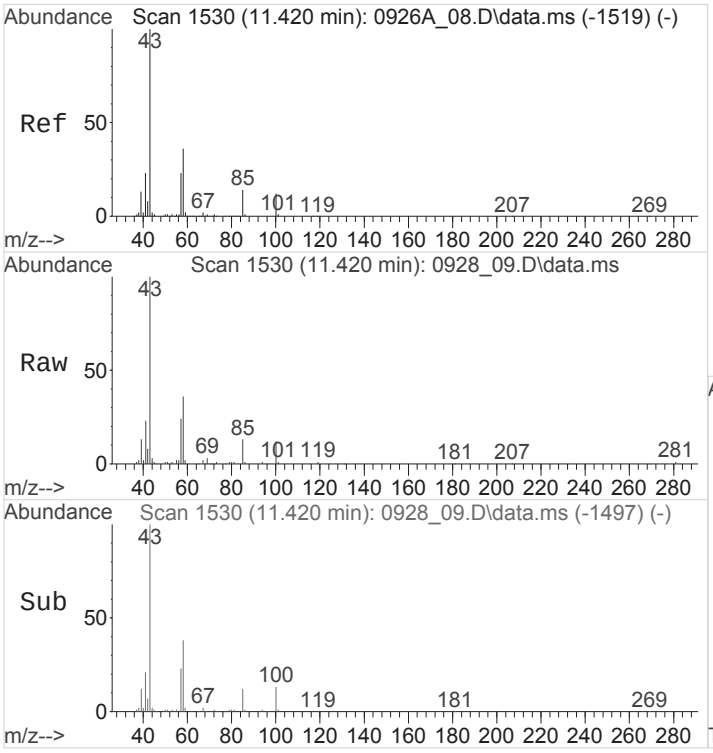


#46
1,4-Dioxane
Concen: 2.8566494 ppbv
RT: 10.648 min Scan# 1403
Delta R.T. 0.006 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 88 Resp: 156564

Ion	Ratio	Lower	Upper
88	100		
58	77.4	58.7	88.1
43	0.0	0.0	0.0

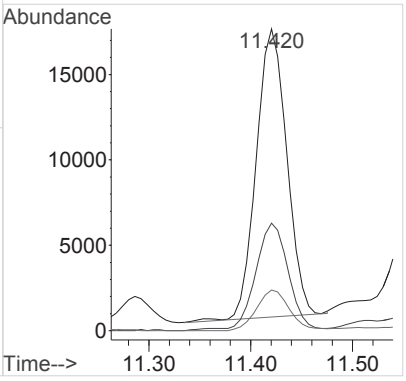


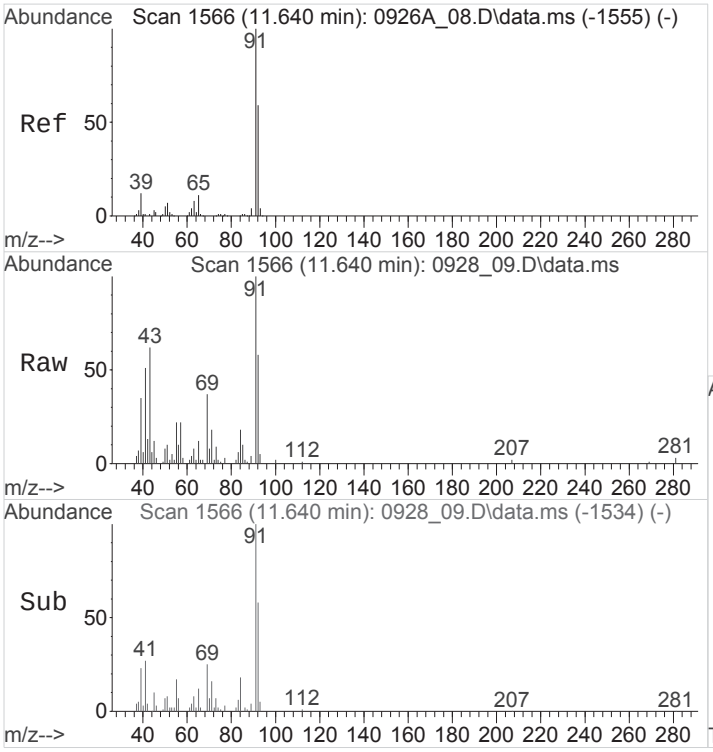


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 1.2390322 ppbv
RT: 11.423 min Scan# 1530
Delta R.T. 0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 43 Resp: 348261

Ion	Ratio	Lower	Upper
43	100		
58	39.2	29.0	43.6
85	14.1	11.0	16.6

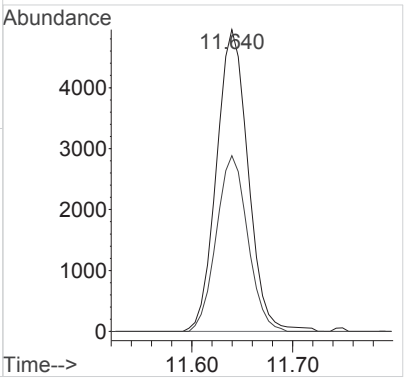


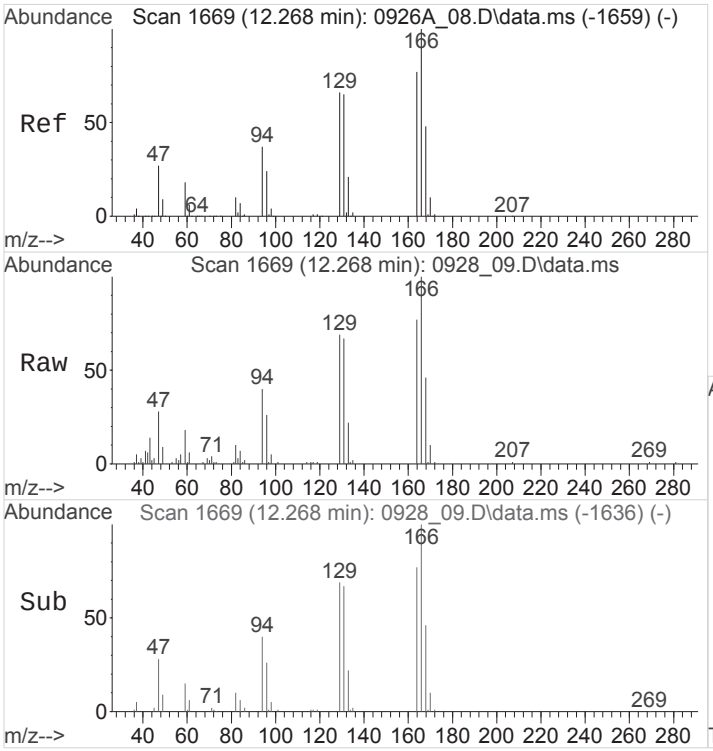


#50
Toluene
Concen: 0.2883269 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 108117

Ion	Ratio	Lower	Upper
91	100		
92	57.7	46.6	70.0

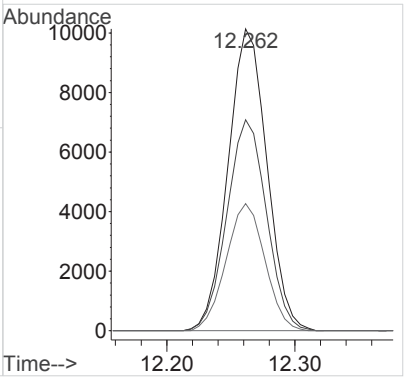


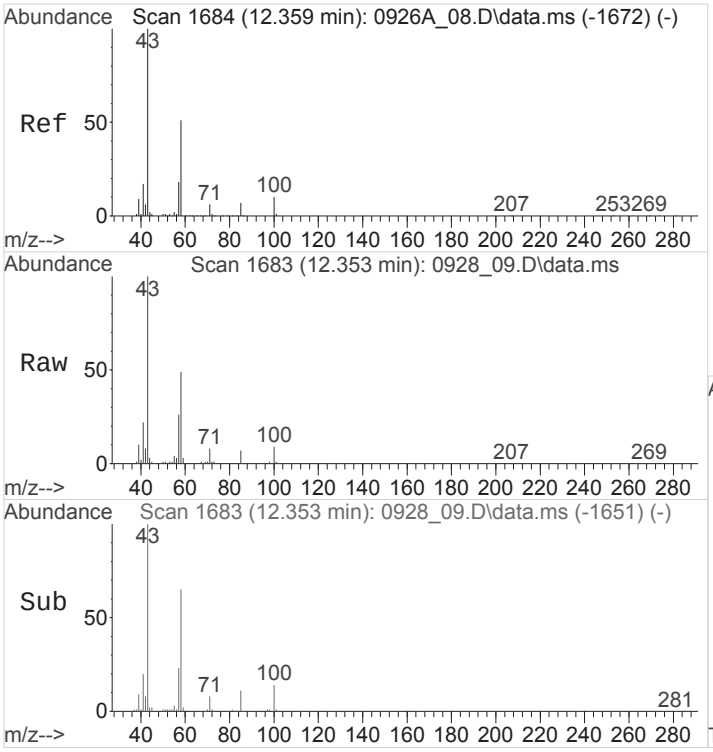


#53
Tetrachloroethene
Concen: 1.3525522 ppbv
RT: 12.265 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:166 Resp: 214023

Ion	Ratio	Lower	Upper
166	100		
129	71.2	55.0	82.6
94	42.1	31.3	46.9

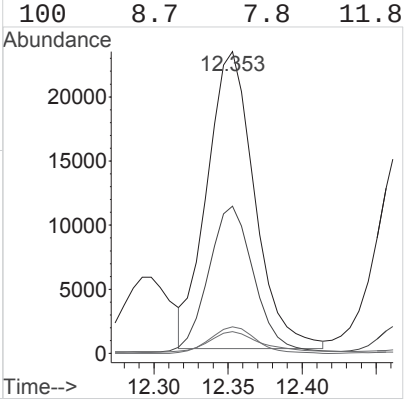


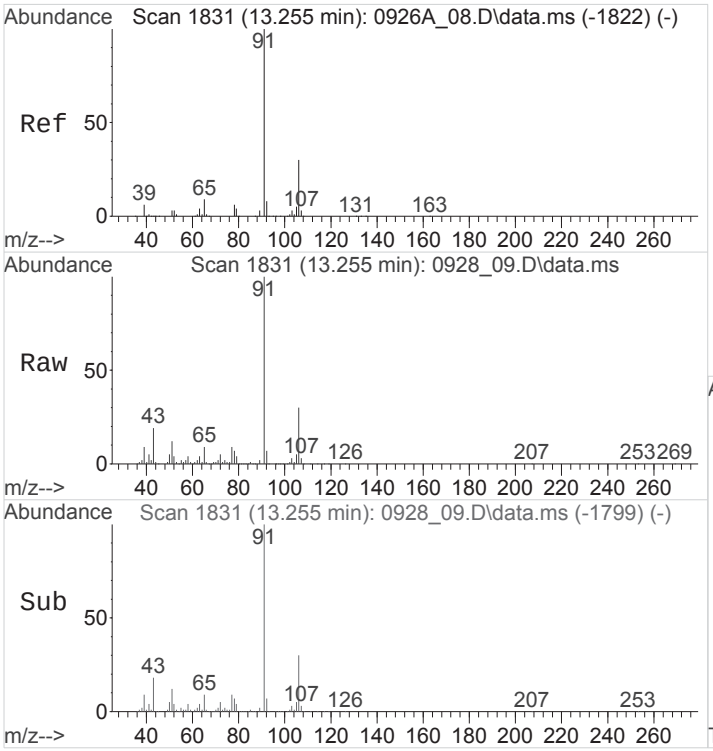


#54
Methyl Butyl Ketone
Concen: 2.3974360 ppbv m
RT: 12.353 min Scan# 1683
Delta R.T. -0.005 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 43 Resp: 514512

Ion	Ratio	Lower	Upper
43	100		
58	46.7	41.0	61.4
85	7.2	5.6	8.4
100	8.7	7.8	11.8

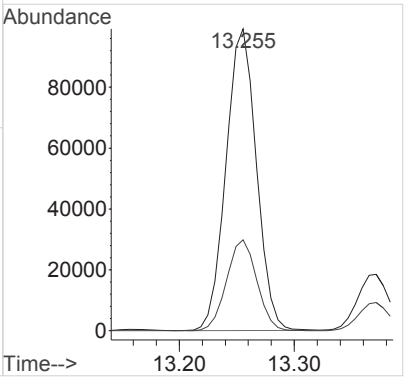


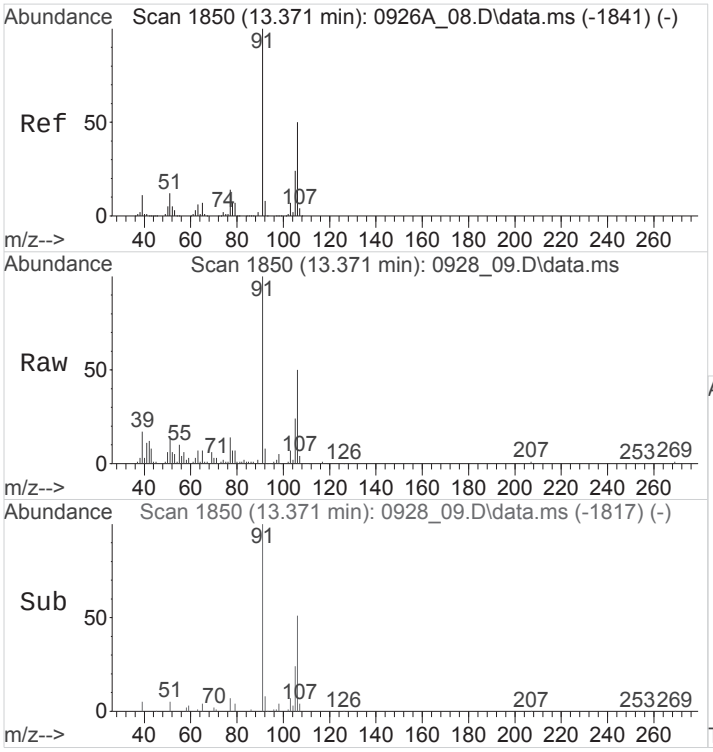


#59
Ethylbenzene
Concen: 4.1687686 ppbv
RT: 13.256 min Scan# 1831
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 1826469

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

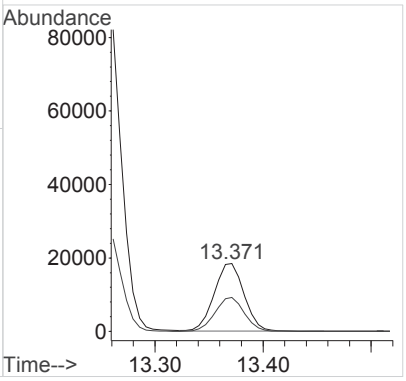


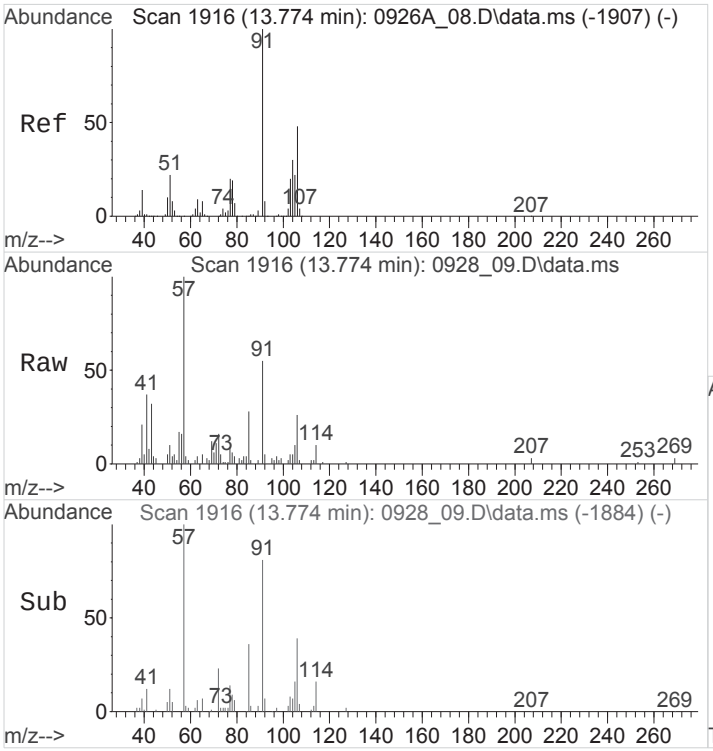


#60
M&P-Xylene
Concen: 1.0696663 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 354181

Ion	Ratio	Lower	Upper
91	100		
106	49.4	39.8	59.6

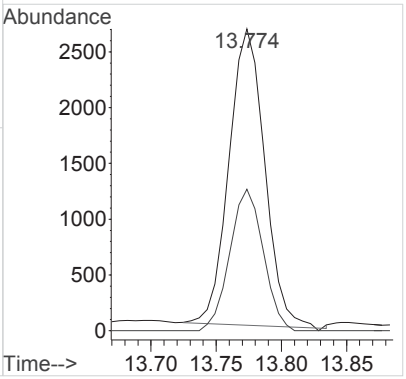


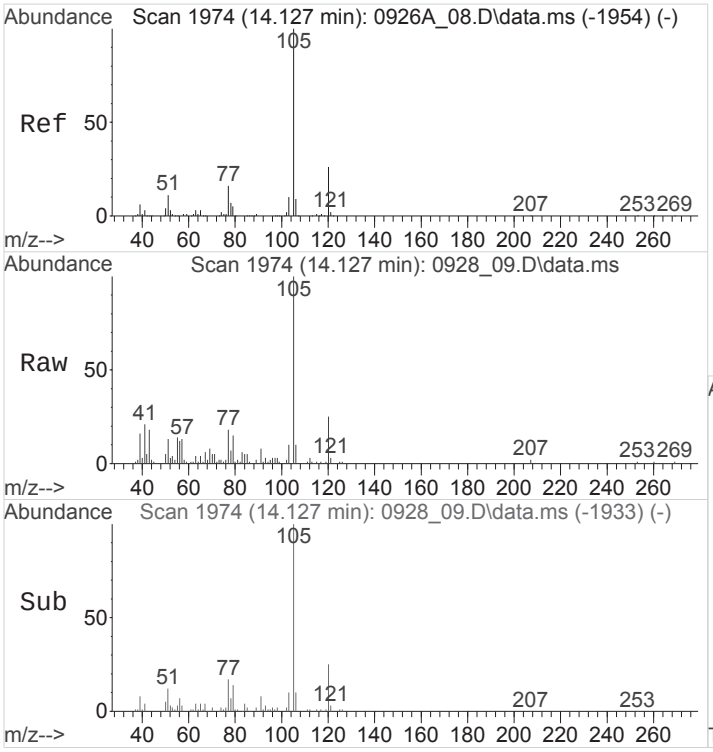


#61
O-Xylene
Concen: 0.1498290 ppbv
RT: 13.776 min Scan# 1916
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 50515

Ion	Ratio	Lower	Upper
91	100		
106	44.6	38.2	57.2

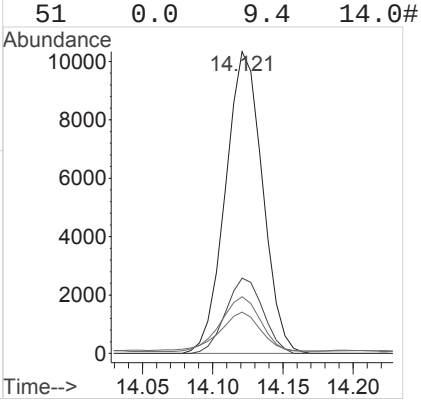


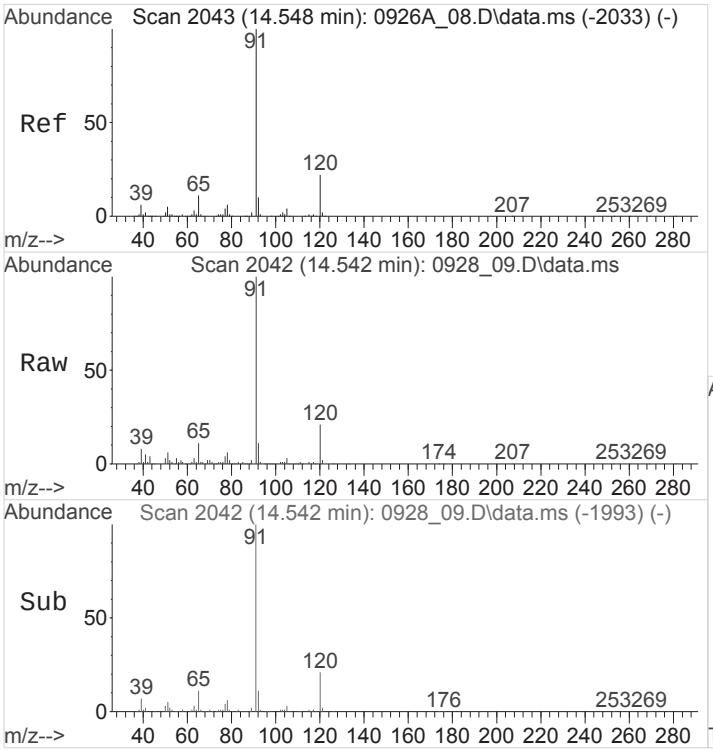


#64
Isopropylbenzene
Concen: 0.4097802 ppbv
RT: 14.125 min Scan# 1974
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 189884

Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.7	31.1
77	19.3	13.0	19.4
51	0.0	9.4	14.0#

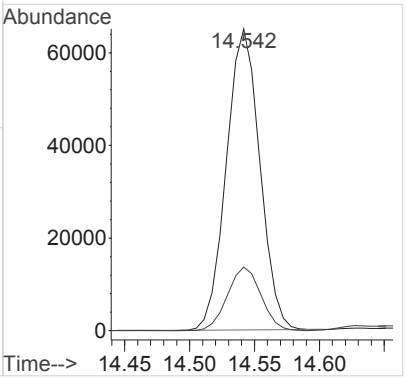


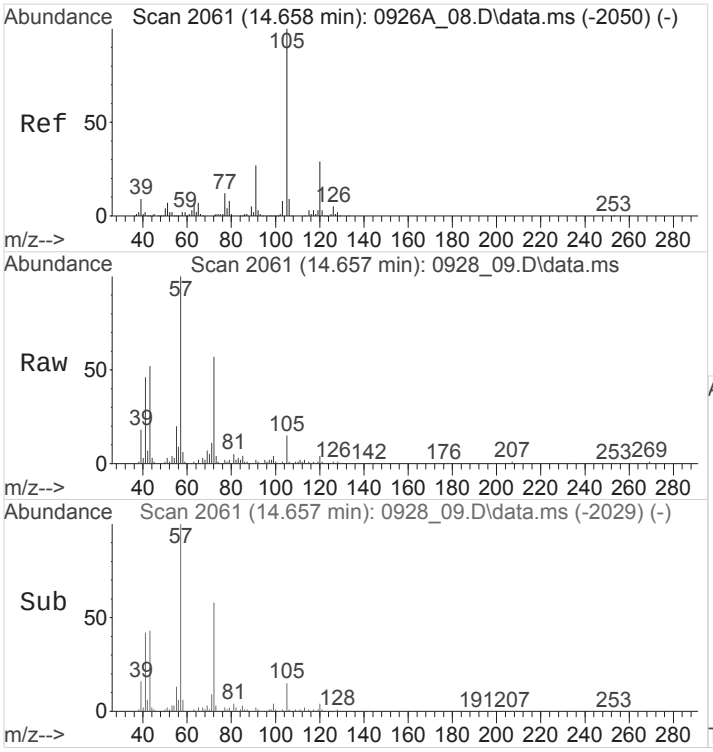


#66
n-Propylbenzene
Concen: 2.1140222 ppbv
RT: 14.544 min Scan# 2042
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 1162456

Ion	Ratio	Lower	Upper
91	100		
120	21.2	17.1	25.7

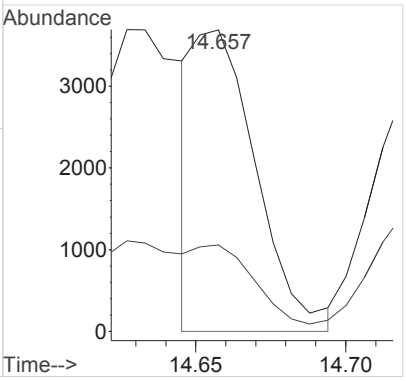


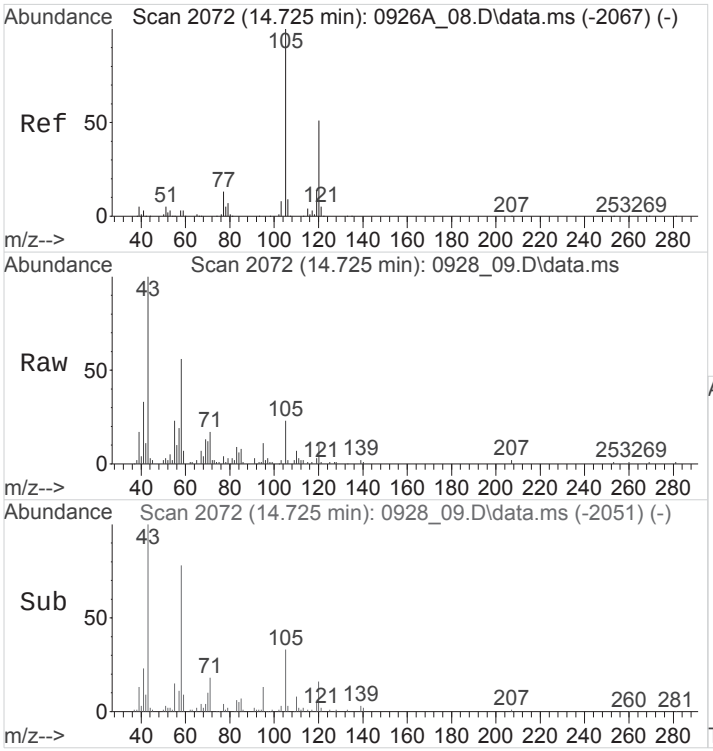


#67
4-Ethyltoluene
Concen: 0.1408918 ppbv
RT: 14.657 min Scan# 2061
Delta R.T. -0.003 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 63168

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

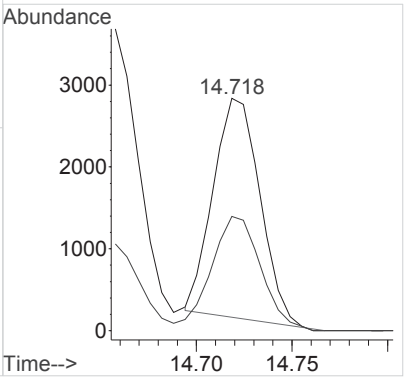


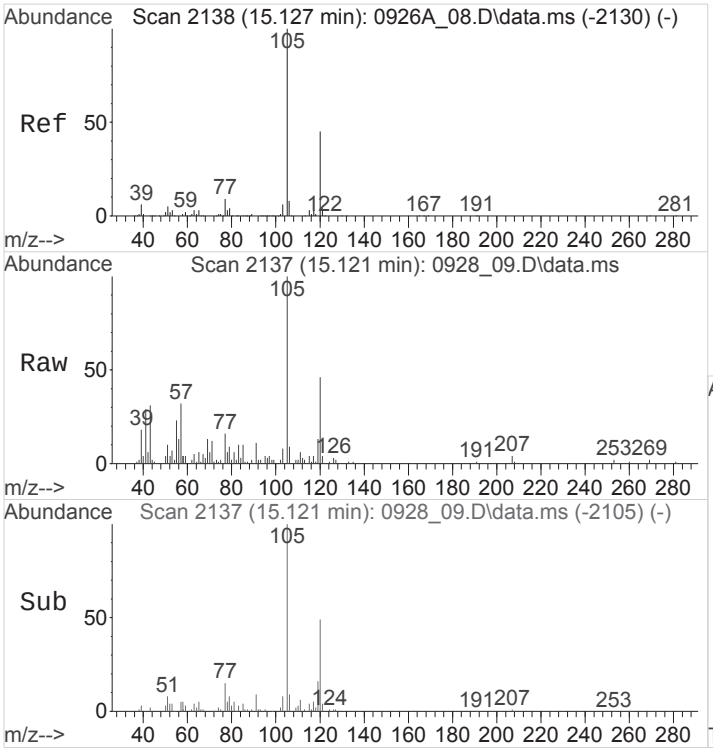


#70
1,3,5-Trimethylbenzene
Concen: 0.1226258 ppbv
RT: 14.723 min Scan# 2072
Delta R.T. -0.000 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 46393

Ion	Ratio	Lower	Upper
105	100		
120	0.0	40.2	60.4#

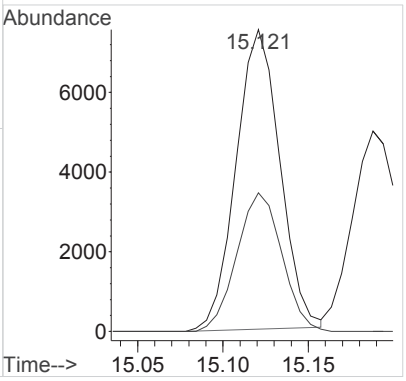


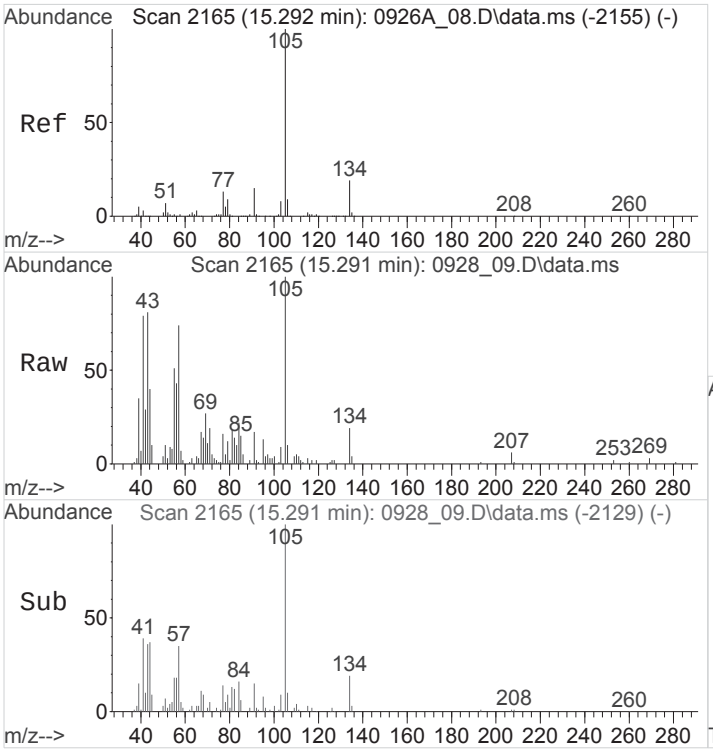


#72
1,2,4-Trimethylbenzene
Concen: 0.3583456 ppbv
RT: 15.123 min Scan# 2137
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 133798

Ion	Ratio	Lower	Upper
105	100		
120	47.6	37.5	56.3

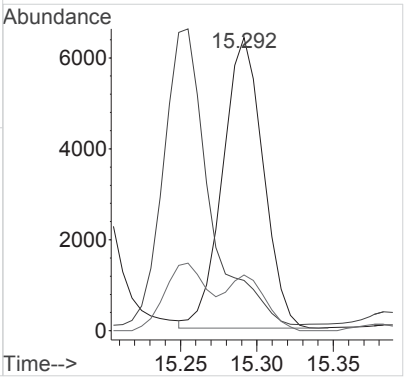


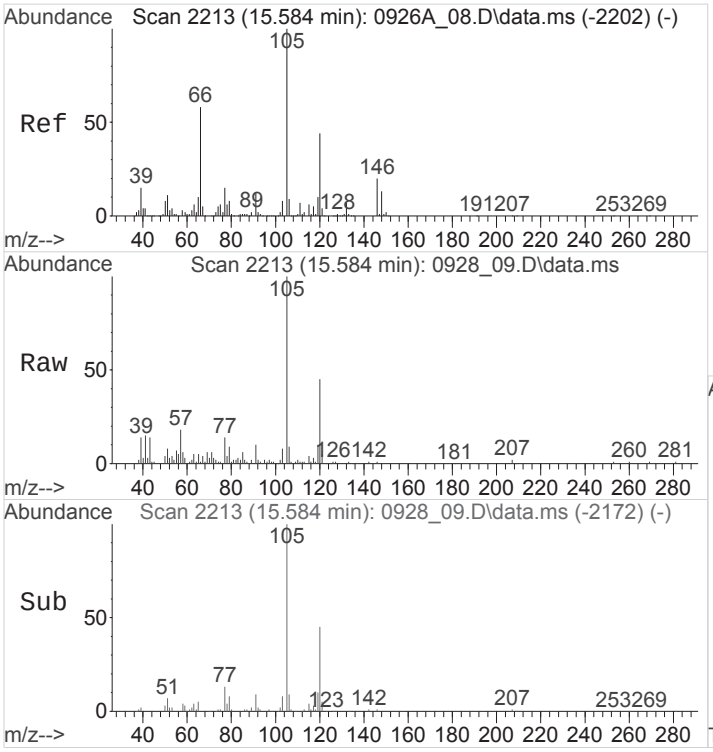


#73
sec-Butylbenzene
Concen: 0.2049129 ppbv
RT: 15.293 min Scan# 2165
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 118408

Ion	Ratio	Lower	Upper
105	100		
91	114.7	12.2	18.2#
134	0.0	15.1	22.7#

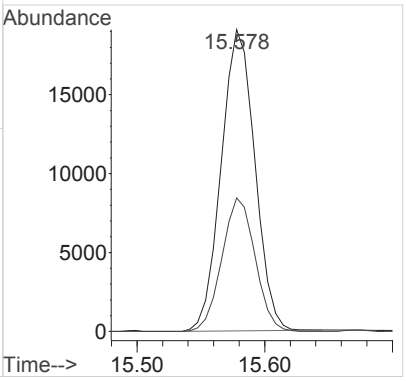


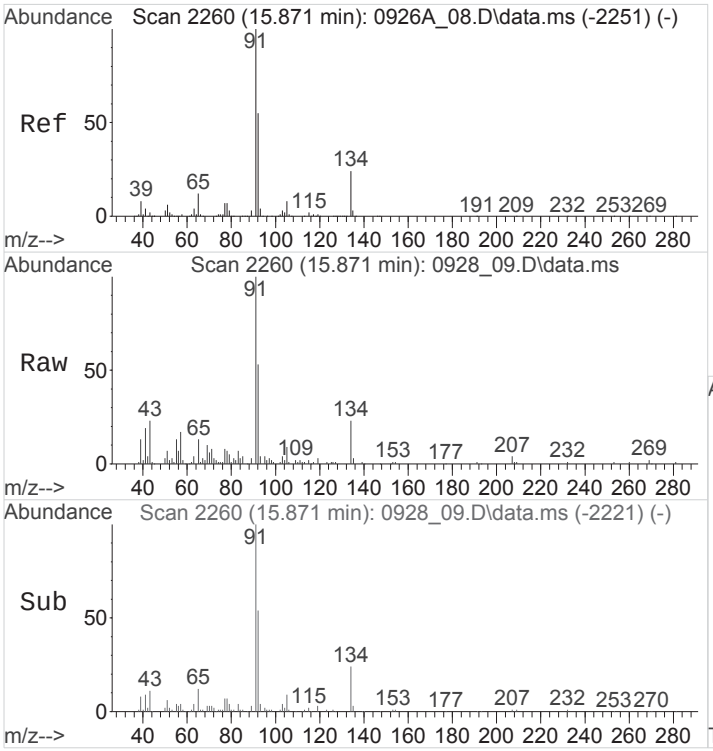


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.9221022 ppbv
RT: 15.582 min Scan# 2213
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:105 Resp: 349339

Ion	Ratio	Lower	Upper
105	100		
120	43.8	34.6	52.0

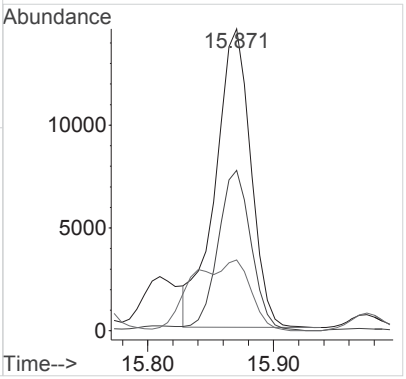


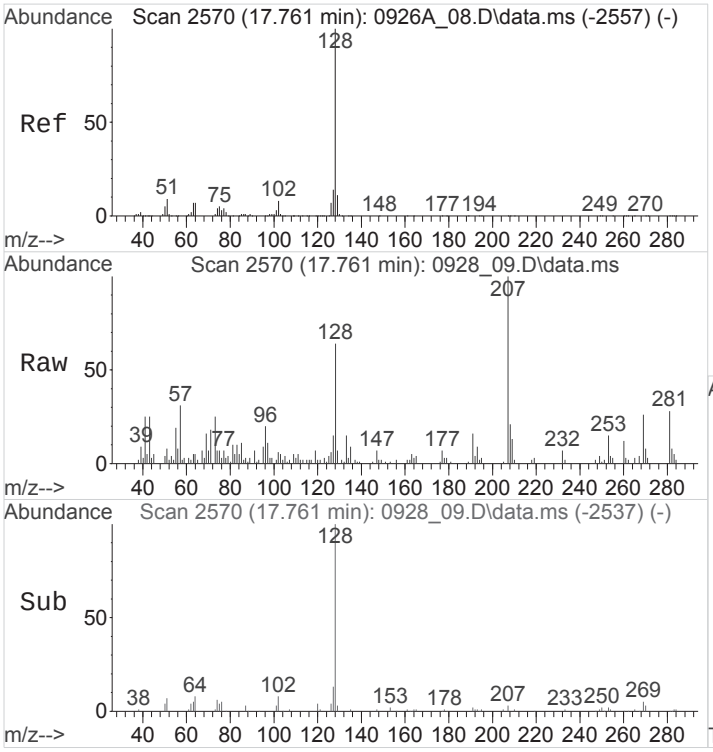


#79
n-Butylbenzene
Concen: 0.6876218 ppbv
RT: 15.872 min Scan# 2260
Delta R.T. -0.001 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion: 91 Resp: 292204

Ion	Ratio	Lower	Upper
91	100		
92	49.7	43.8	65.8
134	16.3	19.4	29.0#

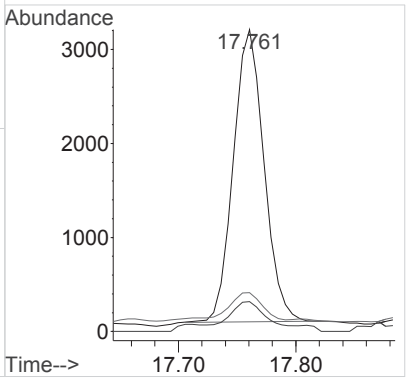


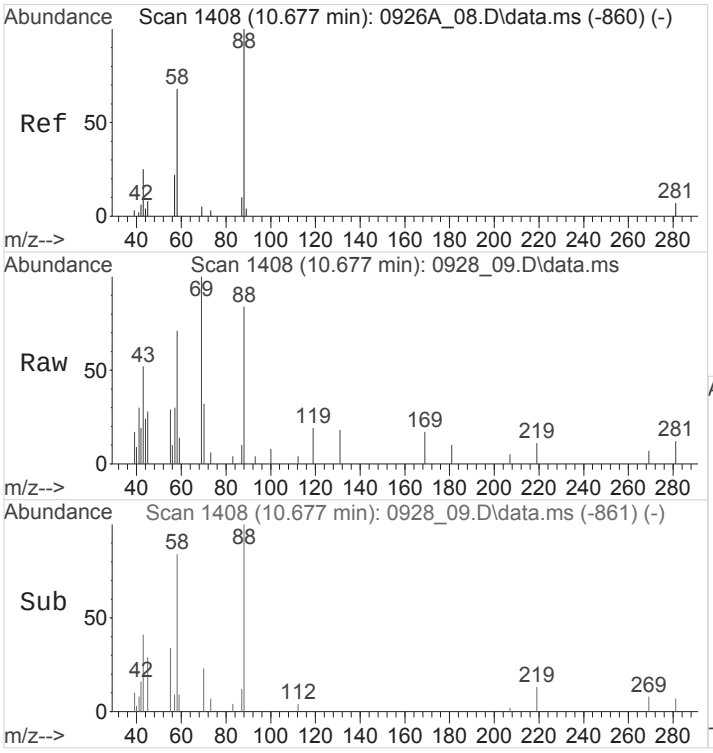


#83
Naphthalene
Concen: 0.2830454 ppbv
RT: 17.762 min Scan# 2570
Delta R.T. 0.002 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

Tgt Ion:128 Resp: 56372

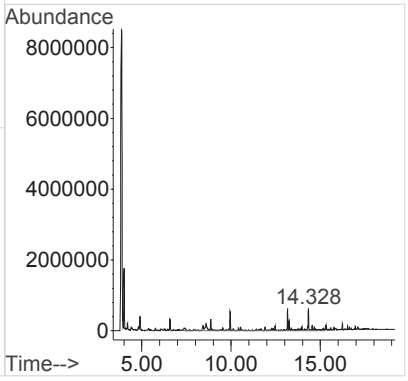
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





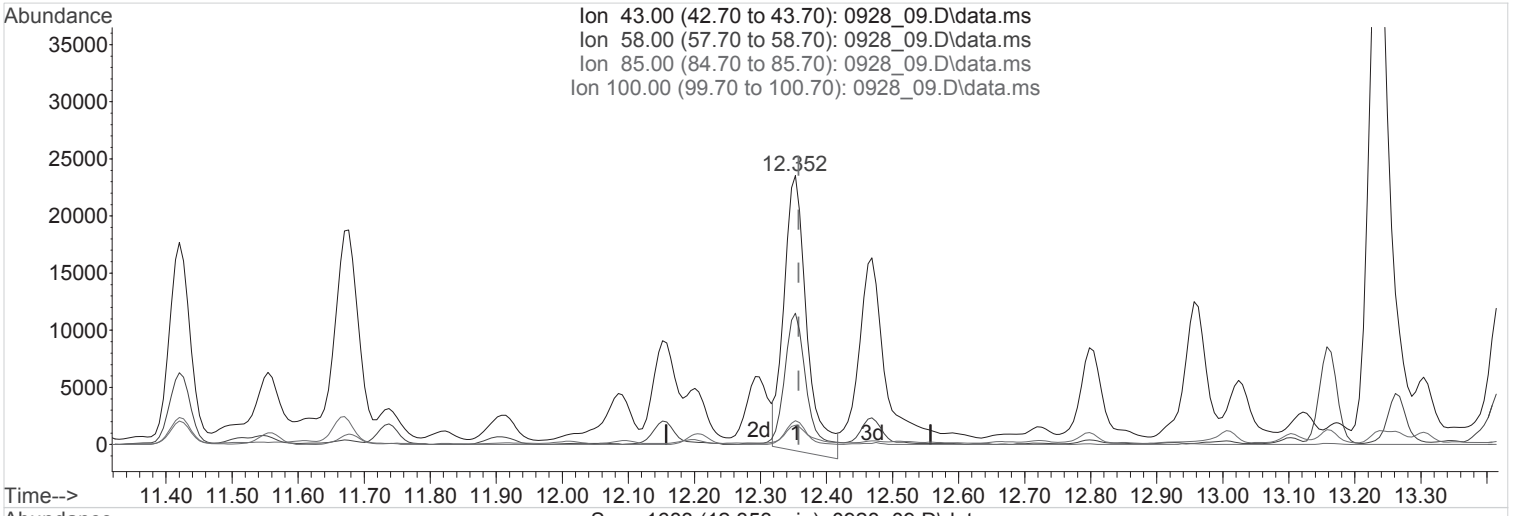
#84
TPH (GC/MS) Low Fraction
Concen: 148.0275774 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_09.D
Acq: 28 Sep 2016 12:59 pm

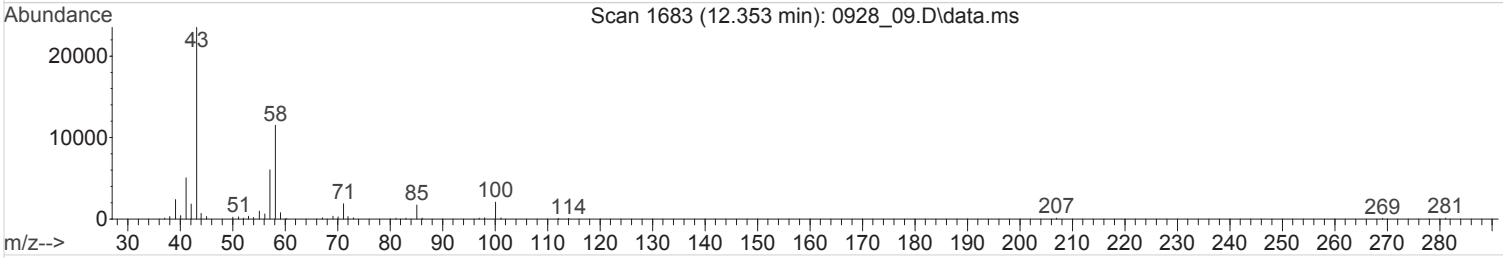
Tgt Ion:TIC Resp:115287677

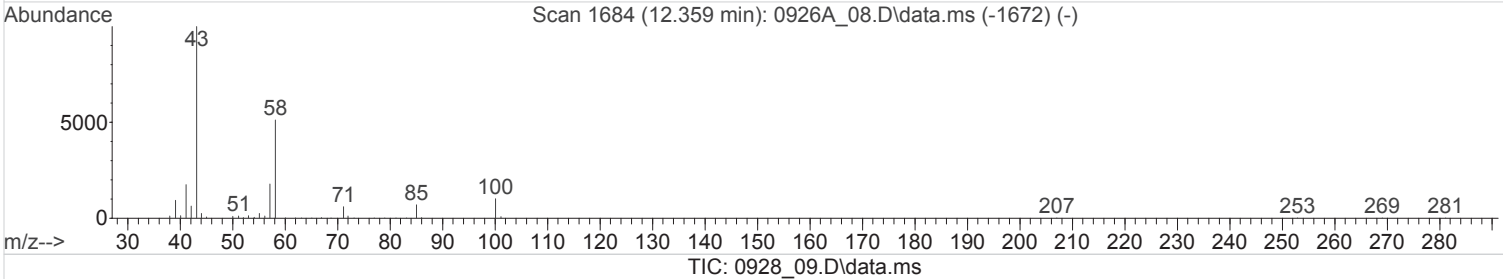


Data Path : C:\msdchem\1\data\092816\
Data File : 0928_09.D
Acq On : 28 Sep 2016 12:59 pm
Operator : 564
Sample : L861822-05 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 15:06:35 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_09.D\data.ms

(54) Methyl Butyl Ketone (T,M)

12.354min (-0.004) 1.3671862 ppbv

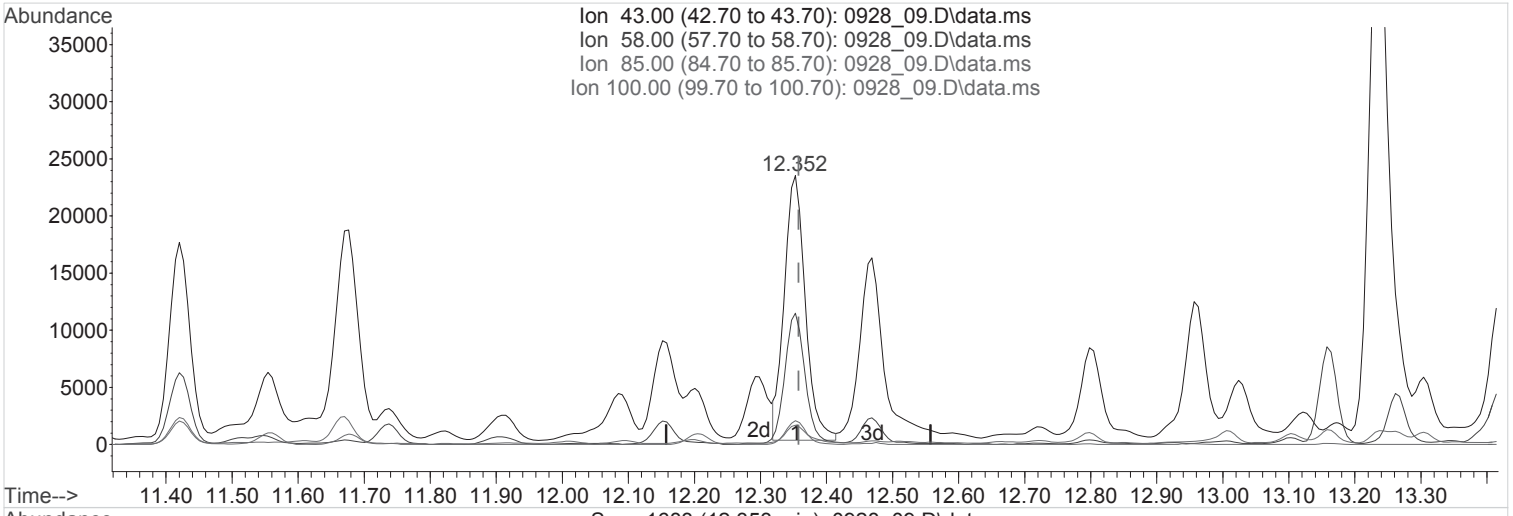
Qvalue = 88

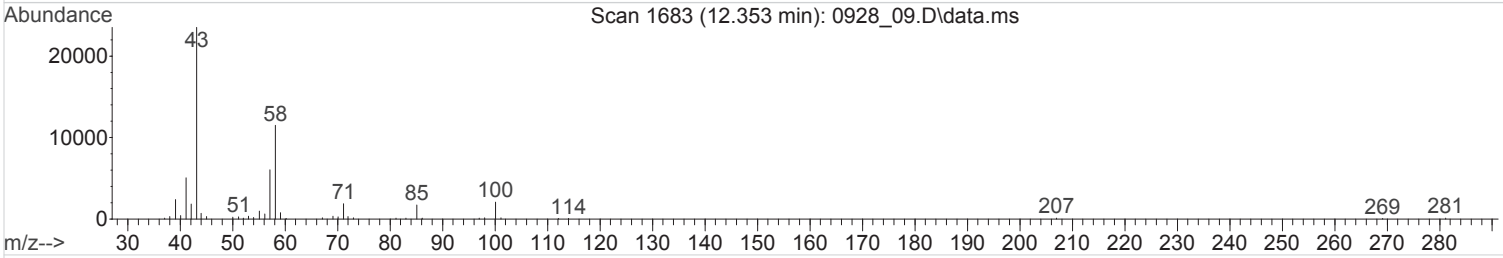
response 586821 Limit = 0.1364000

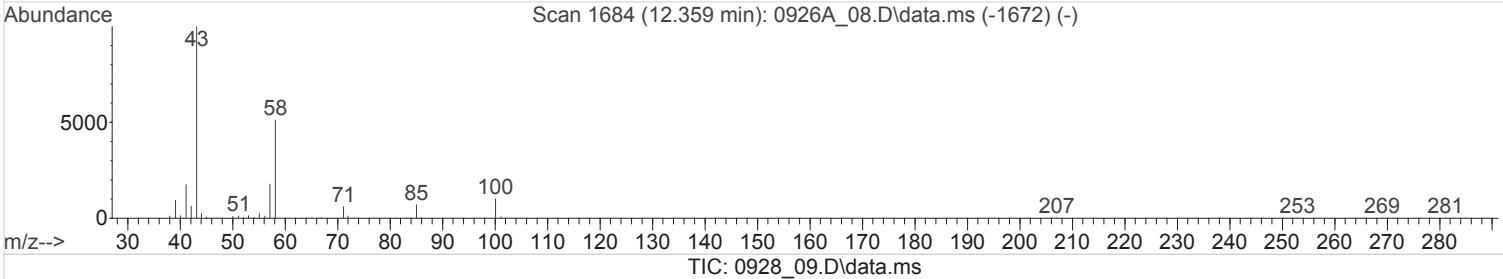
Ion	Exp%	Act%
43.00	100	100
58.00	51.20	40.98
85.00	7.00	6.31
100.00	9.80	7.67#

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_09.D
Acq On : 28 Sep 2016 12:59 pm
Operator : 564
Sample : L861822-05 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 15:06:35 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_09.D\data.ms

(54) Methyl Butyl Ketone (T,M)

12.353min (-0.005) 1.1987180 ppbv m

response 514512 Limit = 0.1364000

Ion	Exp%	Act%
43.00	100	100
58.00	51.20	46.73
85.00	7.00	7.20
100.00	9.80	8.75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_10.D
Acq On : 28 Sep 2016 1:44 pm
Operator : 564
Sample : L861822-06 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:41:49 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

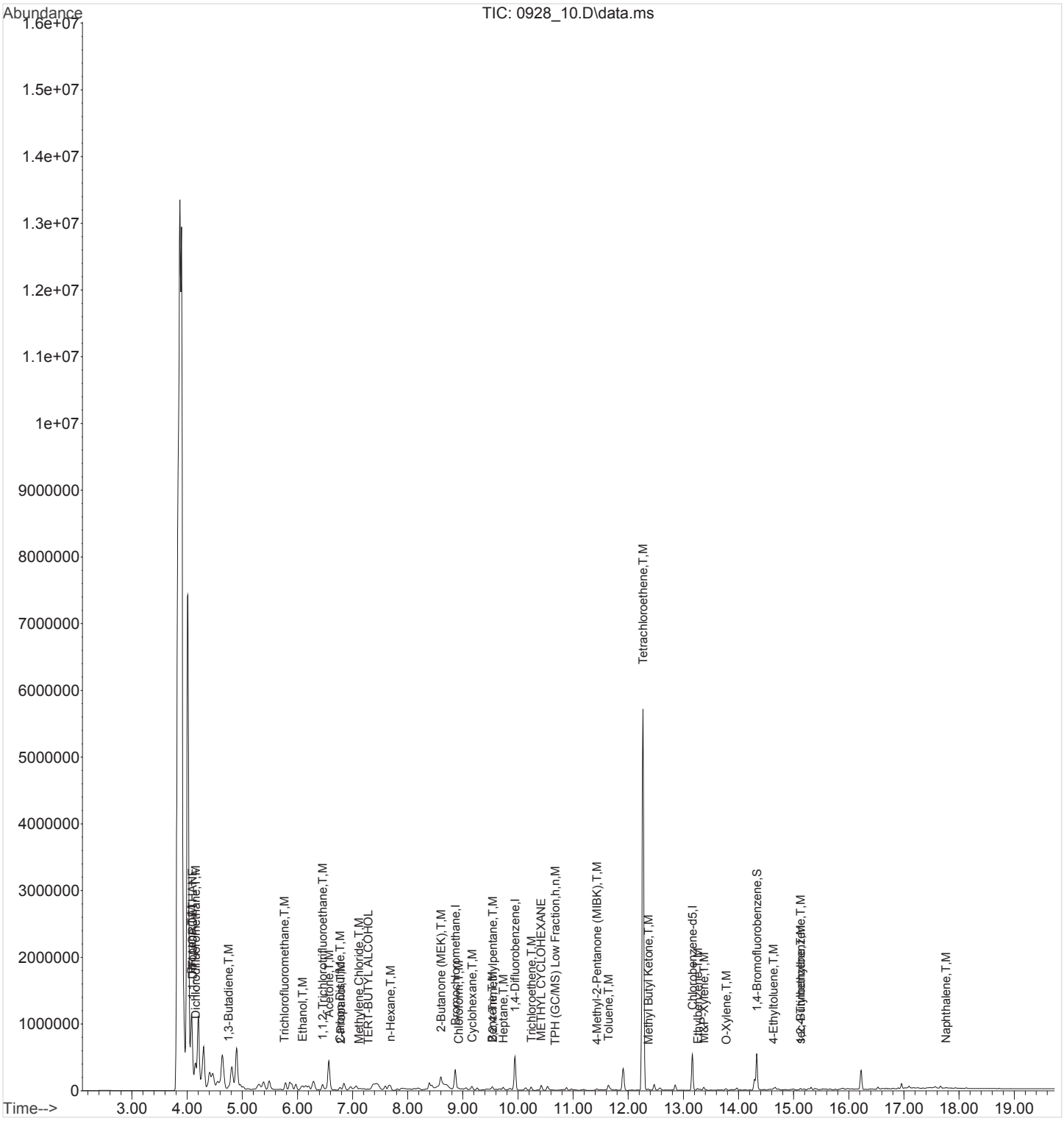
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.866	130	1056225	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.948	114	4394961	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.165	117	3168431	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2075649	4.2166467	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.42%			
Target Compounds						Qvalue
2) Propene	4.085	41	5924148	65.2023382	ppbv	93
3) 1,1-DIFLUOROETHANE	4.100	65	26557	0.4593213	ppbv #	7
4) Dichlorodifluoromethane	4.151	85	46578	0.2667022	ppbv #	42
9) 1,3-Butadiene	4.753	39	232604	2.7837276	ppbv	94
13) Trichlorofluoromethane	5.763	101	68475	0.4062069	ppbv	96
14) Ethanol	6.091	45	263072	17.2787876	ppbv	98
15) 1,1,2-Trichlorotrifluo...	6.460	101	48306	0.3083953	ppbv	93
17) Acetone	6.571	43	6943804	25.5513198	ppbv	98
18) 2-Propanol	6.784	45	281478	1.5334446	ppbv #	74
19) Carbon Disulfide	6.773	76	265201	1.1262216	ppbv	97
21) Methylene Chloride	7.117	49	58158	0.5209549	ppbv #	56
22) TERT-BUTYL ALCOHOL	7.279	59	294781	1.4472821	ppbv #	33
25) n-Hexane	7.689	57	302850	2.1082709	ppbv #	1
29) 2-Butanone (MEK)	8.604	72	376685	8.9498068	ppbv	99
32) Chloroform	8.926	83	108033	0.6740835	ppbv	97
33) Cyclohexane	9.169	84	121438	1.0069860	ppbv #	25
36) 2,2,4-Trimethylpentane	9.544	57	91393	0.1903887	ppbv #	54
38) Benzene	9.536	78	284496	0.9931687	ppbv	96
40) Heptane	9.733	43	265612	1.3427675	ppbv	89
41) Trichloroethene	10.241	95	208845	1.8716456	ppbv	88
43) METHYL CYCLOHEXANE	10.422	83	135927	0.8596173	ppbv #	73
49) 4-Methyl-2-Pentanone (...	11.430	43	170829	0.6670236	ppbv	95
50) Toluene	11.642	91	633953	1.8554531	ppbv	100
53) Tetrachloroethene	12.270	166	20625025	143.0507843	ppbv	92
54) Methyl Butyl Ketone	12.364	43	131824	0.6741359	ppbv #	93
59) Ethylbenzene	13.259	91	101396	0.2656965	ppbv #	44
60) M&P-Xylene	13.372	91	247849	0.8593670	ppbv	99
61) O-Xylene	13.778	91	90071	0.3067135	ppbv	98
66) n-Propylbenzene	14.545	91	34617	0.0722744	ppbv #	1
67) 4-Ethyltoluene	14.631	105	88851	0.2275194	ppbv	97
68) 2-Chlorotoluene	14.545	91	34682	0.0954672	ppbv #	49
72) 1,2,4-Trimethylbenzene	15.124	105	87434	0.2688448	ppbv	99
73) sec-Butylbenzene	15.124	105	86081	0.1710268	ppbv #	60
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	36210	0.1097318	ppbv #	33
83) Naphthalene	17.763	128	35000	0.2017578	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	231267580m	340.9125461	ppbv	

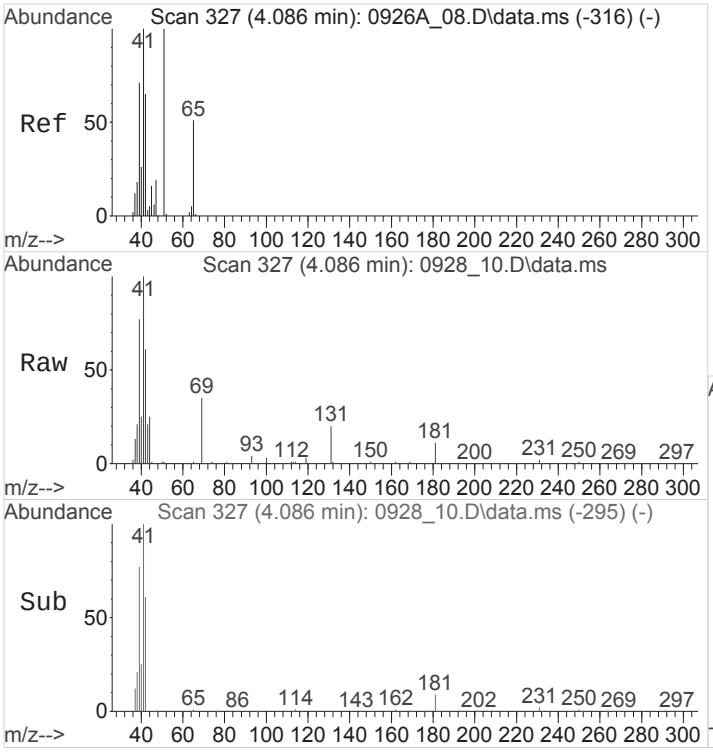
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_10.D
Acq On : 28 Sep 2016 1:44 pm
Operator : 564
Sample : L861822-06 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:41:49 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

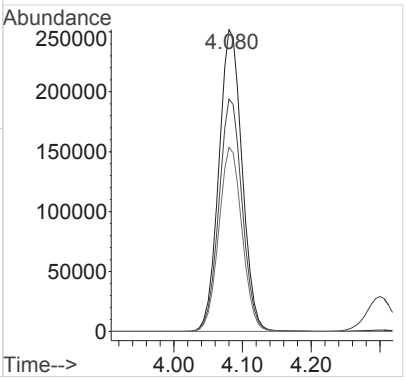


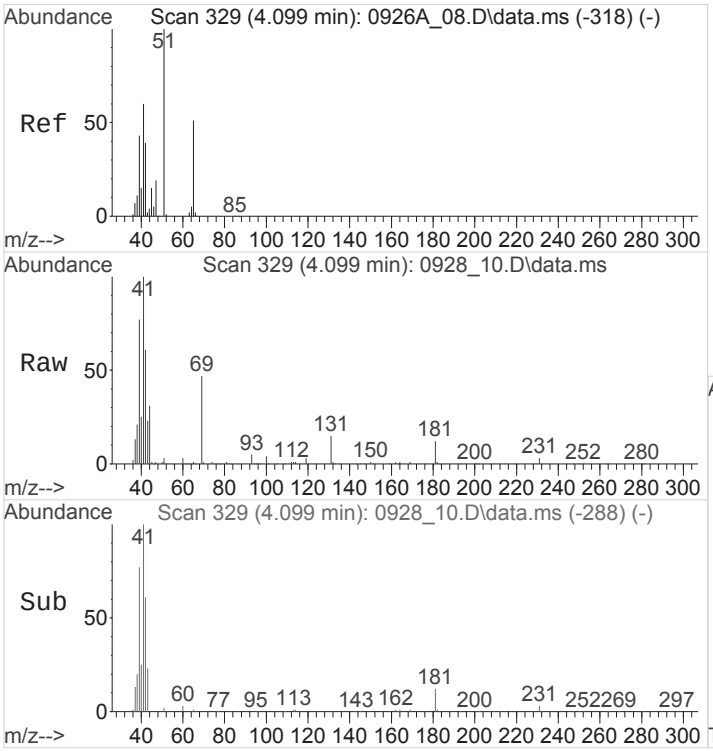


#2
Propene
Concen: 65.2023382 ppbv
RT: 4.085 min Scan# 327
Delta R.T. -0.004 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 41 Resp: 5924148

Ion	Ratio	Lower	Upper
41	100		
39	76.8	56.5	84.7
42	61.0	52.2	78.4

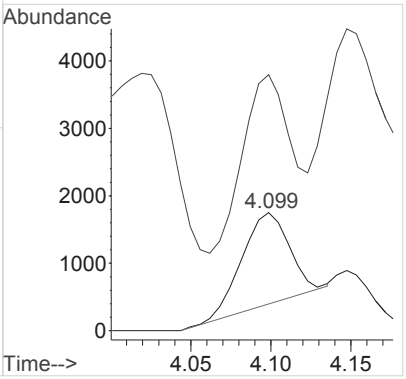


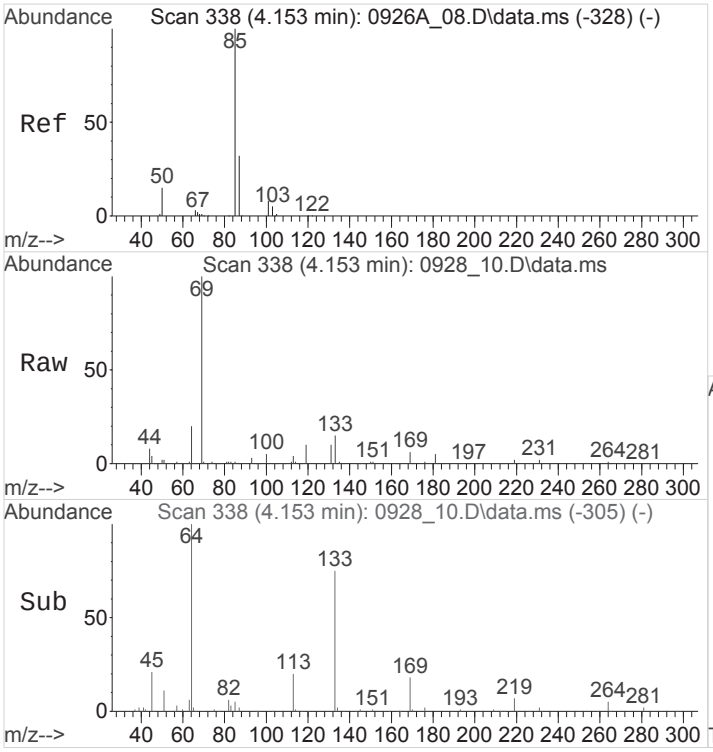


#3
1,1-DIFLUOROETHANE
Concen: 0.4593213 ppbv
RT: 4.100 min Scan# 329
Delta R.T. 0.002 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 65 Resp: 26557

Ion	Ratio	Lower	Upper
65	100		
51	331.3	154.7	232.1#

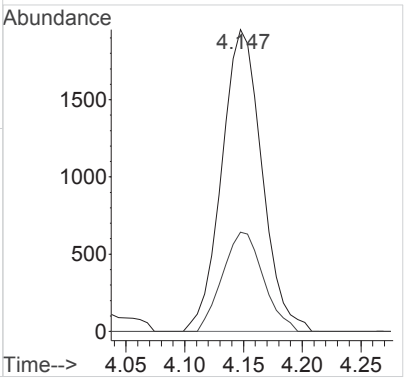


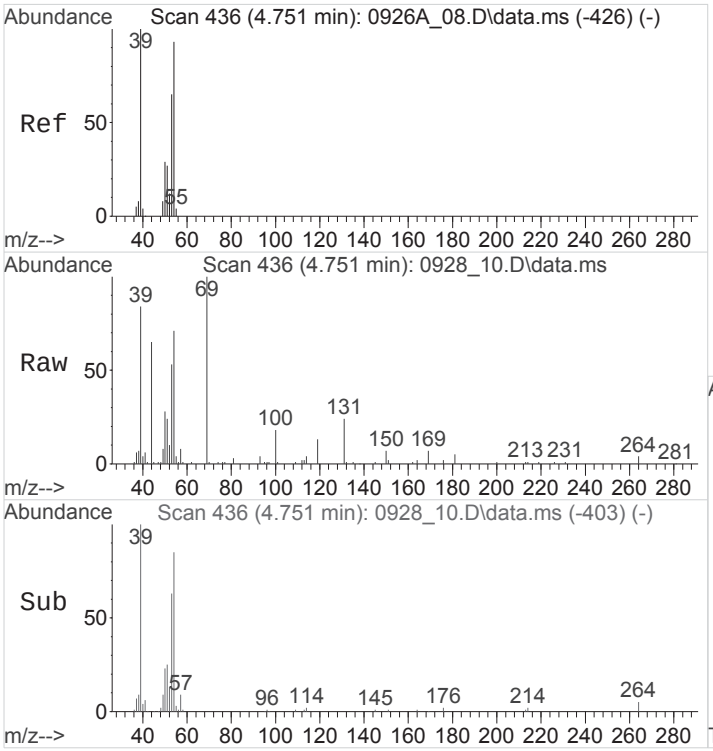


#4
Dichlorodifluoromethane
Concen: 0.2667022 ppbv
RT: 4.151 min Scan# 338
Delta R.T. -0.002 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 85 Resp: 46578

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

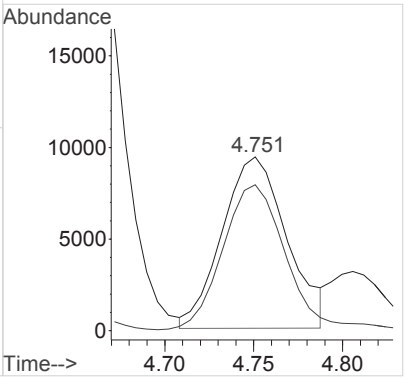


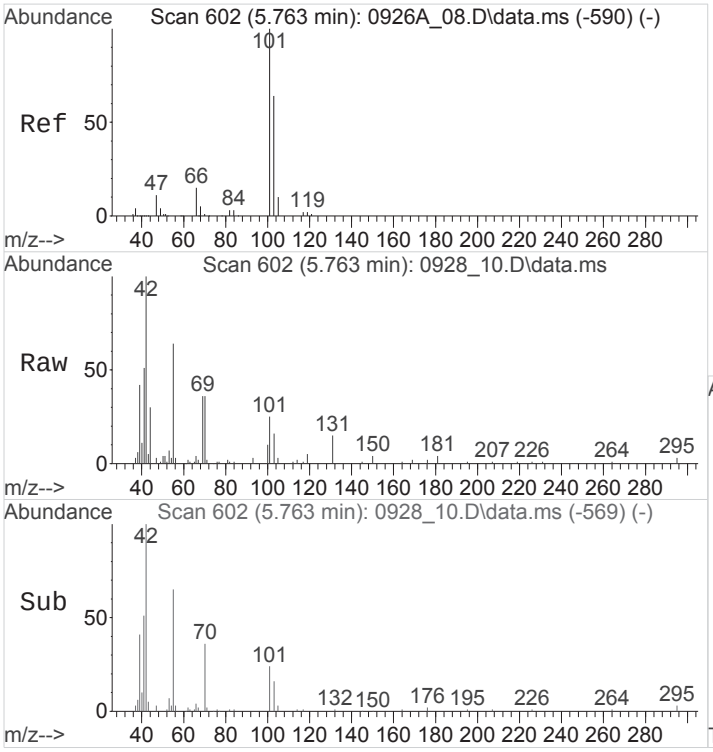


#9
1,3-Butadiene
Concen: 2.7837276 ppbv
RT: 4.753 min Scan# 436
Delta R.T. 0.001 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 39 Resp: 232604

Ion	Ratio	Lower	Upper
39	100		
54	85.6	73.4	110.0

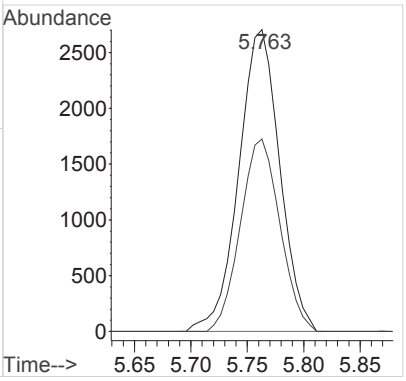


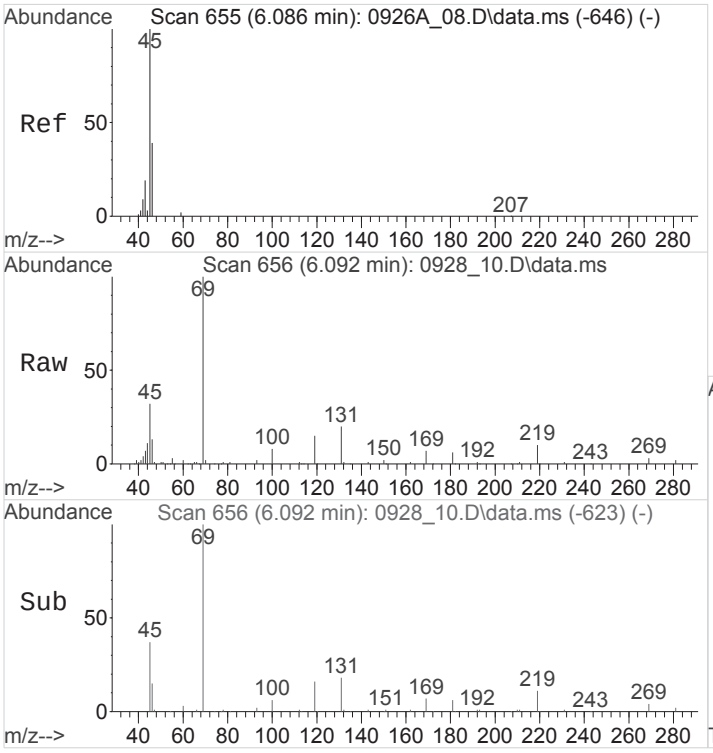


#13
Trichlorofluoromethane
Concen: 0.4062069 ppbv
RT: 5.763 min Scan# 602
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:101 Resp: 68475

Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.7	77.5

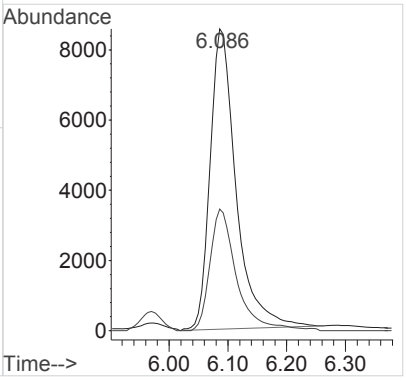


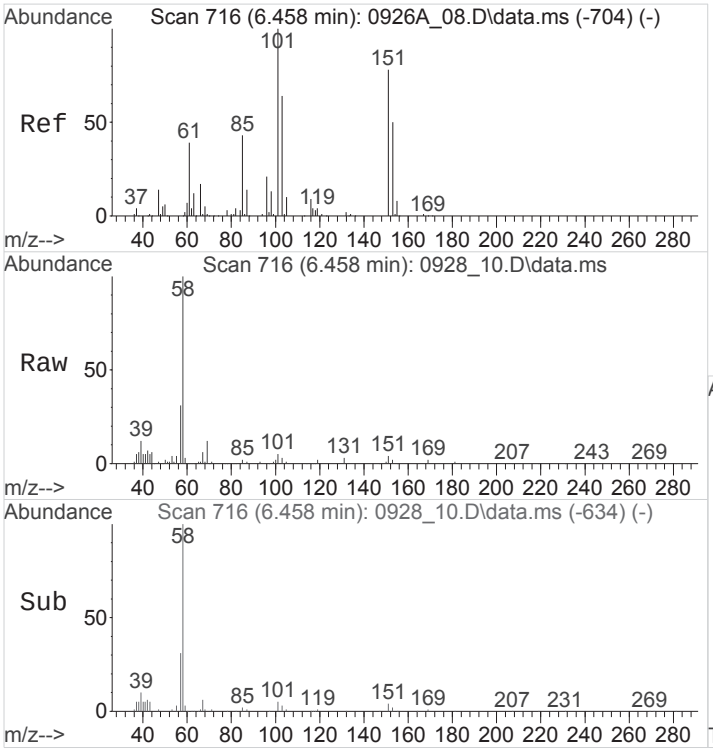


#14
Ethanol
Concen: 17.2787876 ppbv
RT: 6.091 min Scan# 656
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 45 Resp: 263072

Ion	Ratio	Lower	Upper
45	100		
46	39.9	33.0	49.4

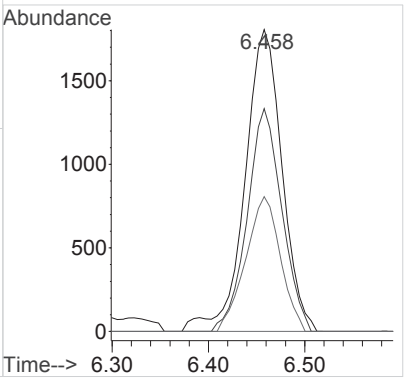


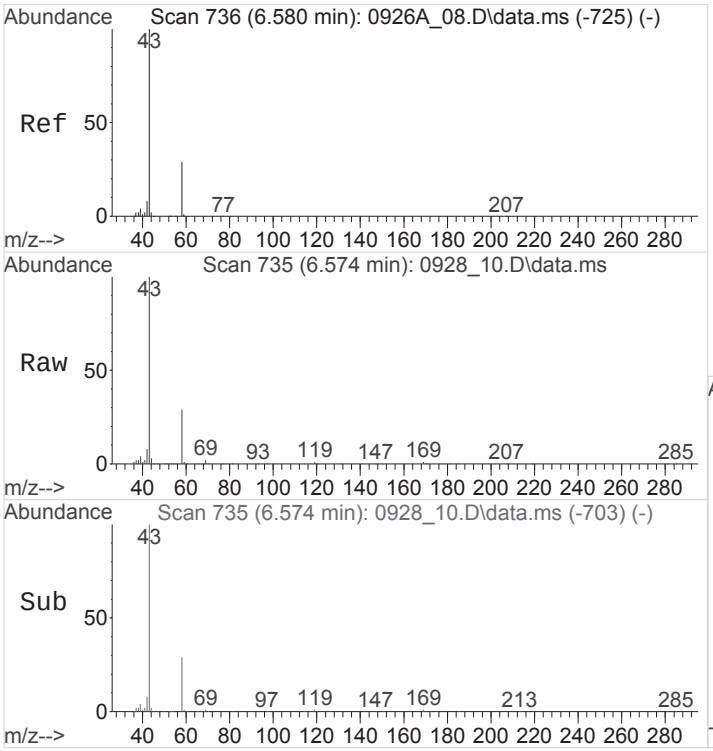


#15
1,1,2-Trichlorotrifluoroethane
Concen: 0.3083953 ppbv
RT: 6.460 min Scan# 716
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:101 Resp: 48306

Ion	Ratio	Lower	Upper
101	100		
151	68.9	61.6	92.4
85	41.7	34.5	51.7

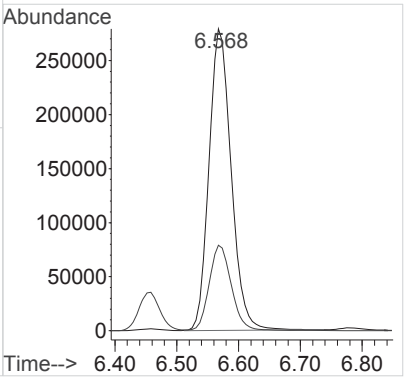


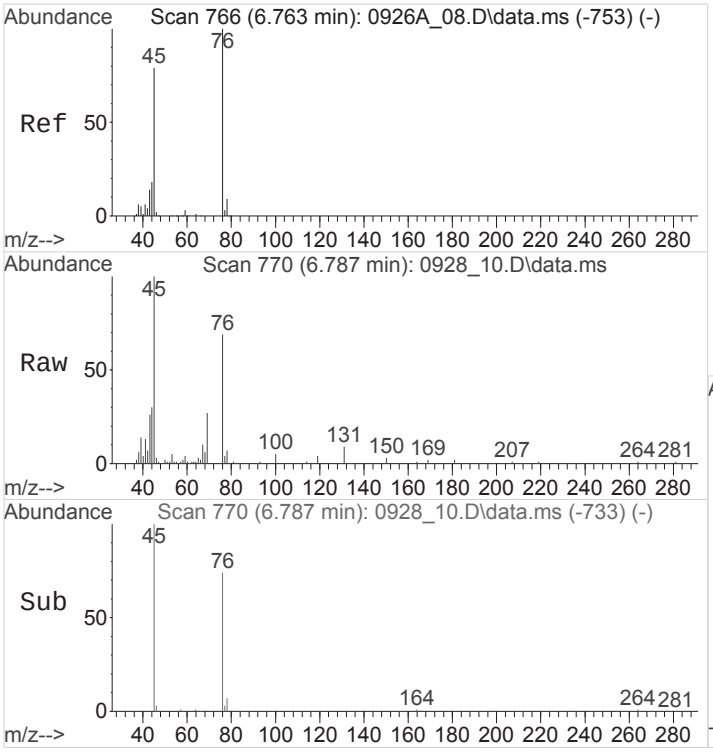


#17
Acetone
Concen: 25.5513198 ppbv
RT: 6.571 min Scan# 735
Delta R.T. -0.008 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 6943804

Ion	Ratio	Lower	Upper
43	100		
58	28.1	23.1	34.7

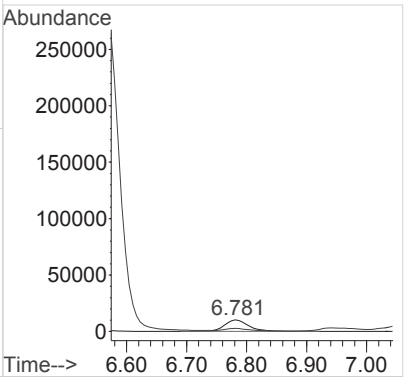


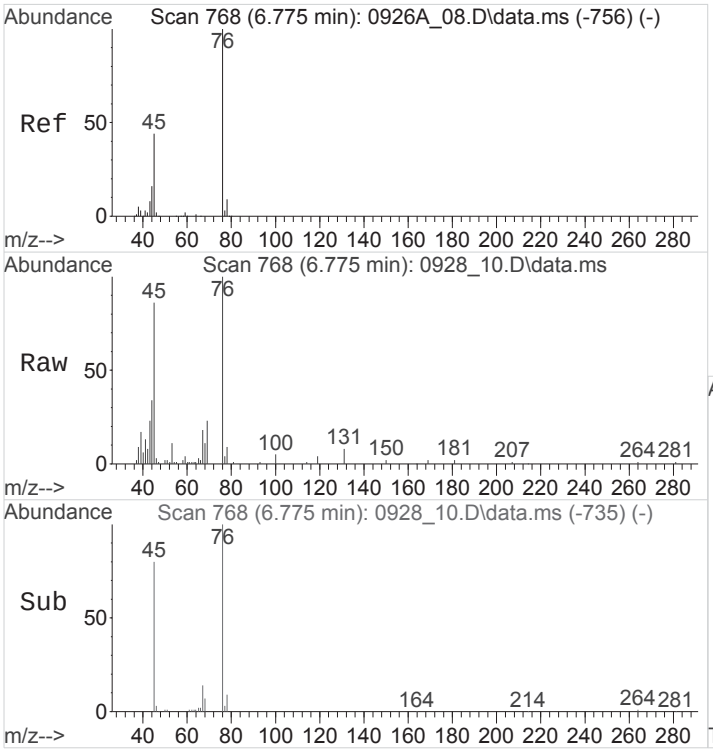


#18
2-Propanol
Concen: 1.5334446 ppbv
RT: 6.784 min Scan# 770
Delta R.T. 0.023 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 45 Resp: 281478

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

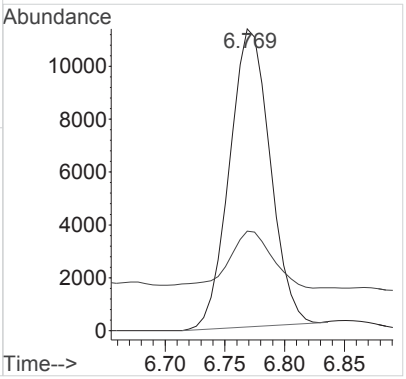


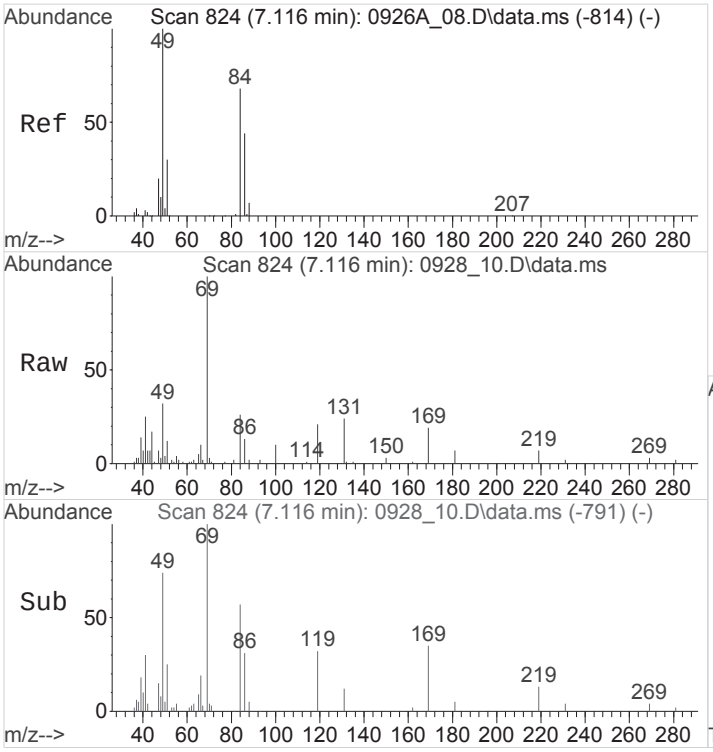


#19
Carbon Disulfide
Concen: 1.1262216 ppbv
RT: 6.773 min Scan# 768
Delta R.T. -0.002 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 76 Resp: 265201

Ion	Ratio	Lower	Upper
76	100		
44	19.0	14.2	21.2

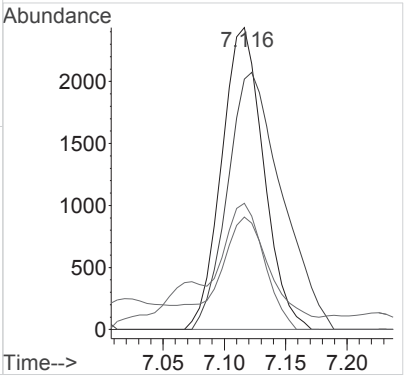


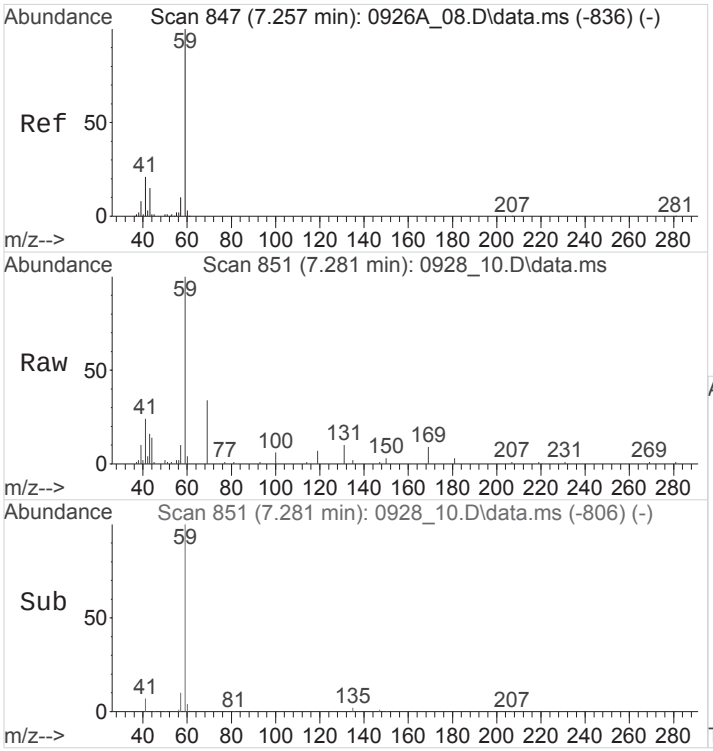


#21
Methylene Chloride
Concen: 0.5209549 ppbv
RT: 7.117 min Scan# 824
Delta R.T. 0.001 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 49 Resp: 58158

Ion	Ratio	Lower	Upper
49	100		
84	109.9	54.2	81.2#
86	58.6	35.1	52.7#
51	0.0	24.5	36.7#

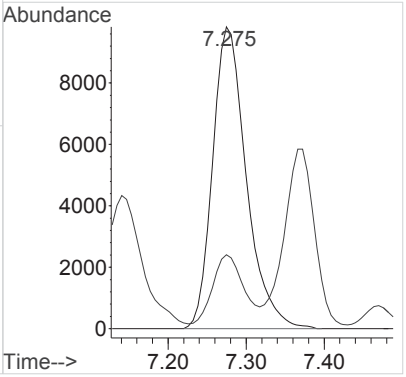


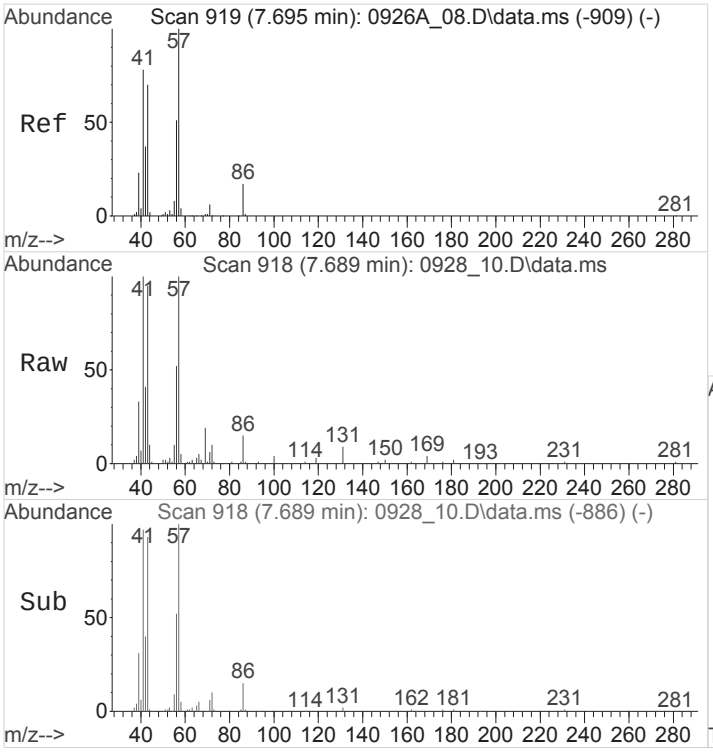


#22
TERT-BUTYL ALCOHOL
Concen: 1.4472821 ppbv
RT: 7.279 min Scan# 851
Delta R.T. 0.023 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 59 Resp: 294781

Ion	Ratio	Lower	Upper
59	100		
41	52.0	16.5	24.7#

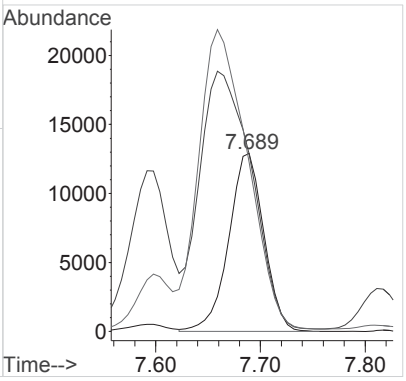


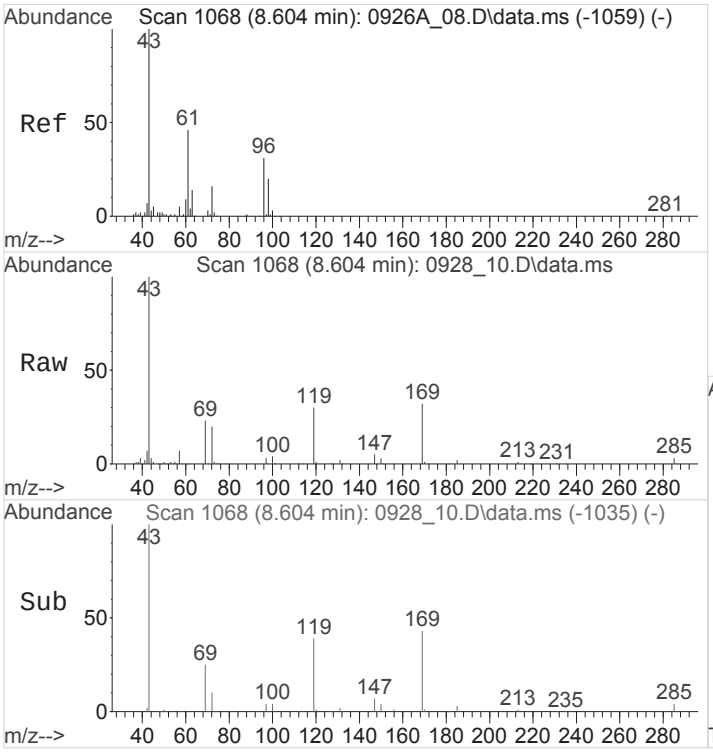


#25
n-Hexane
Concen: 2.1082709 ppbv
RT: 7.689 min Scan# 918
Delta R.T. -0.004 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 57 Resp: 302850

Ion	Ratio	Lower	Upper
57	100		
41	214.8	63.2	94.8#
43	233.8	56.0	84.0#

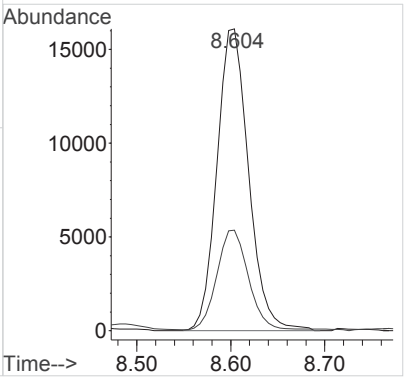


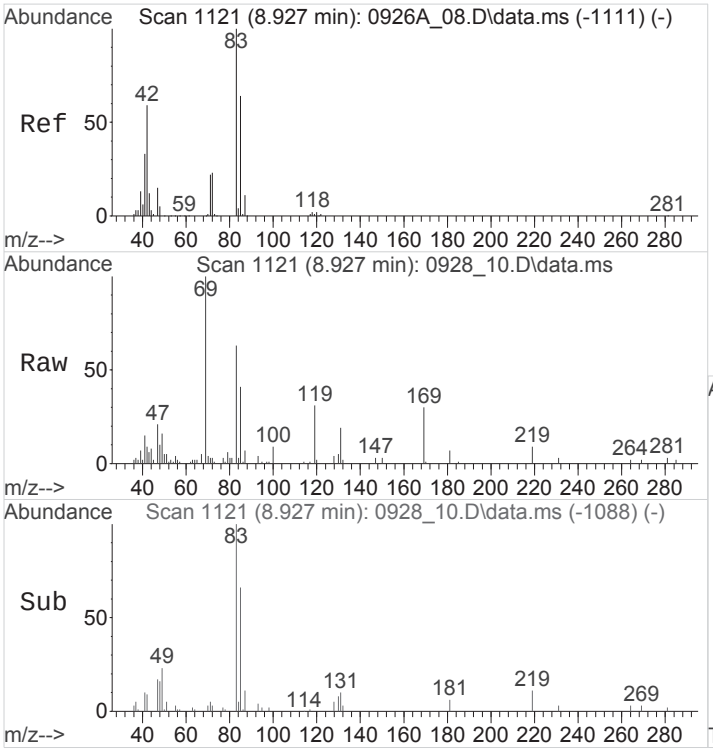


#29
2-Butanone (MEK)
Concen: 8.9498068 ppbv
RT: 8.604 min Scan# 1068
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 72 Resp: 376685

Ion	Ratio	Lower	Upper
72	100		
57	32.3	25.6	38.4

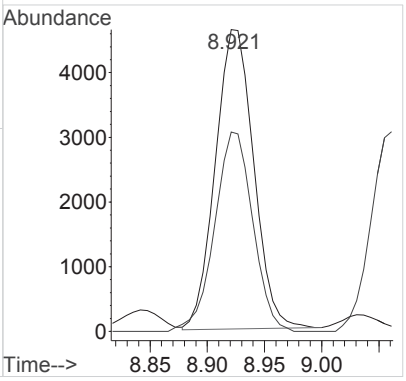


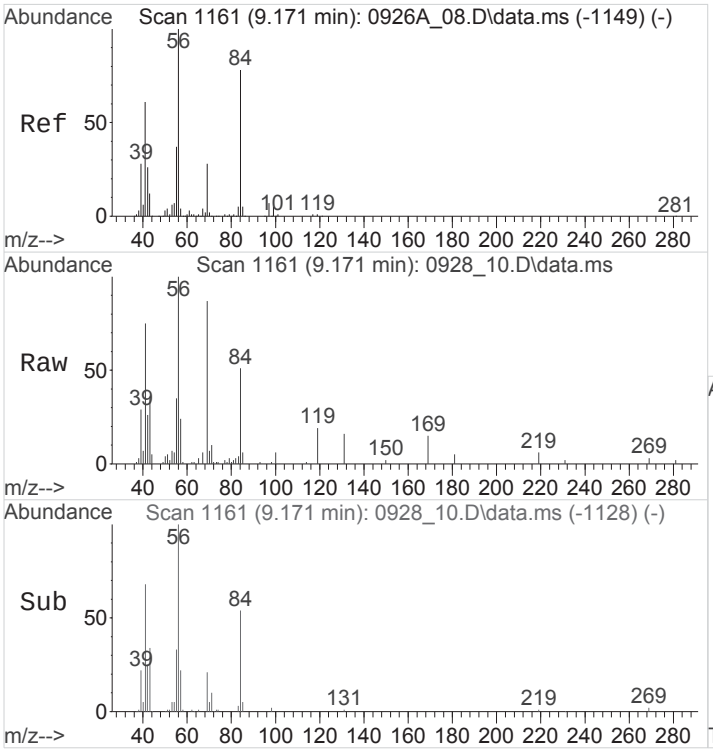


#32
Chloroform
Concen: 0.6740835 ppbv
RT: 8.926 min Scan# 1121
Delta R.T. -0.001 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 83 Resp: 108033

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.6

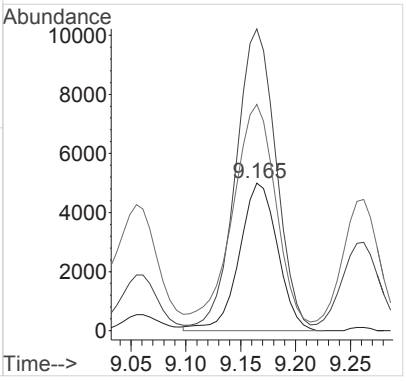


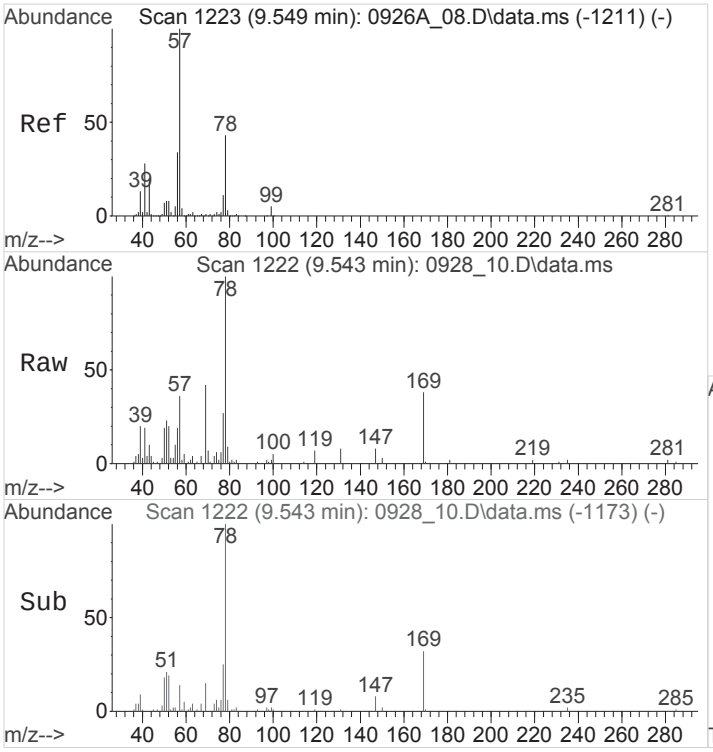


#33
Cyclohexane
Concen: 1.0069860 ppbv
RT: 9.169 min Scan# 1161
Delta R.T. -0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 84 Resp: 121438

Ion	Ratio	Lower	Upper
84	100		
56	204.9	101.4	152.0#
41	152.8	62.1	93.1#

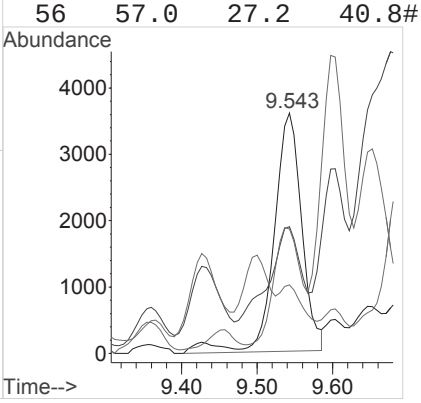


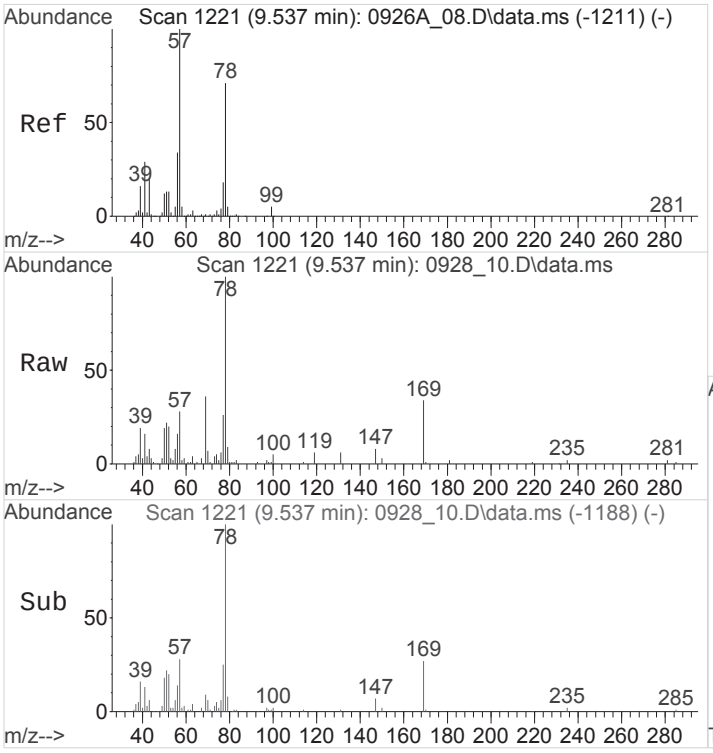


#36
2,2,4-Trimethylpentane
Concen: 0.1903887 ppbv
RT: 9.544 min Scan# 1222
Delta R.T. -0.002 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 57 Resp: 91393

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	57.0	27.2	40.8#

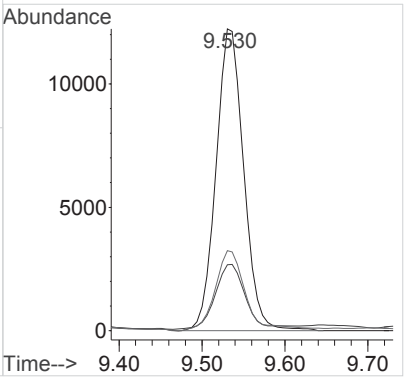


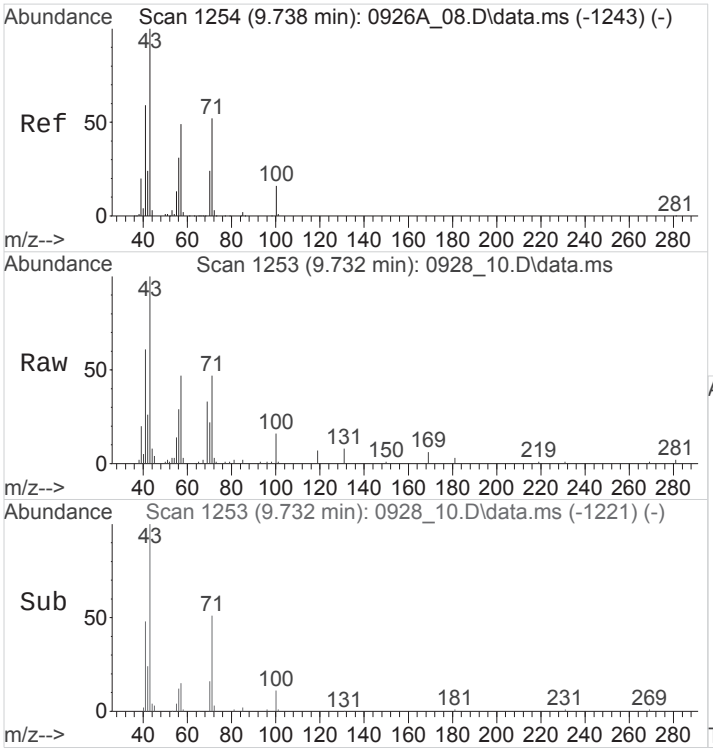


#38
Benzene
Concen: 0.9931687 ppbv
RT: 9.536 min Scan# 1221
Delta R.T. -0.002 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 78 Resp: 284496

Ion	Ratio	Lower	Upper
78	100		
51	21.0	15.4	23.0
77	27.3	19.9	29.9

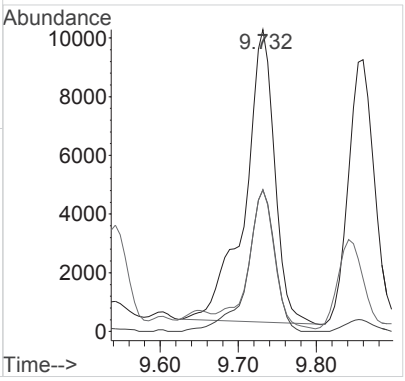


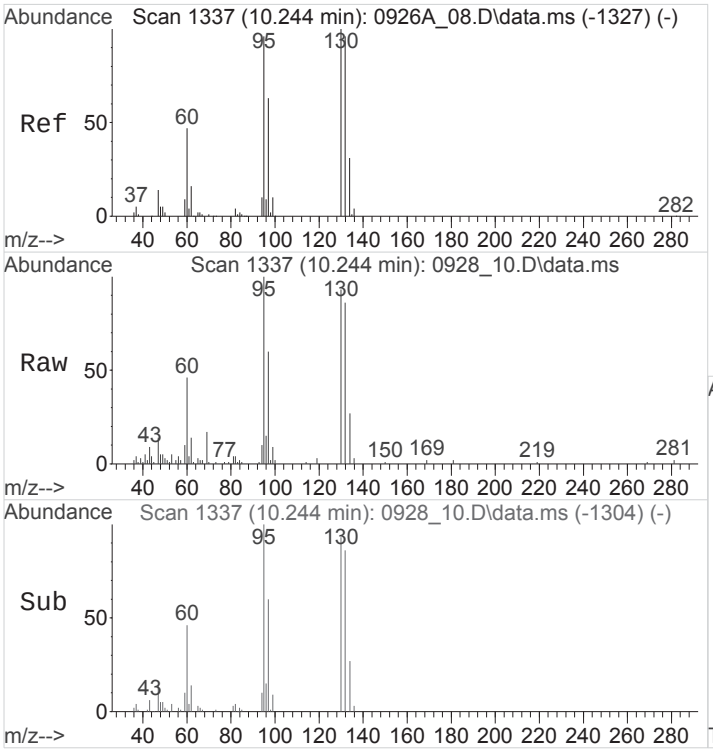


#40
Heptane
Concen: 1.3427675 ppbv
RT: 9.733 min Scan# 1253
Delta R.T. -0.004 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 265612

Ion	Ratio	Lower	Upper
43	100		
71	44.5	41.4	62.0
57	40.4	39.3	58.9

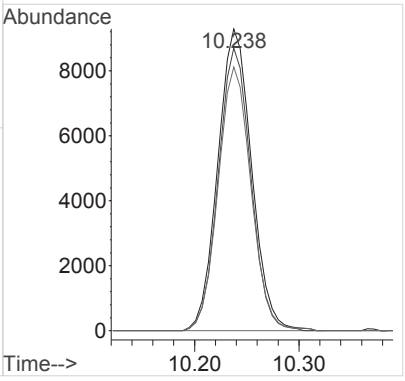


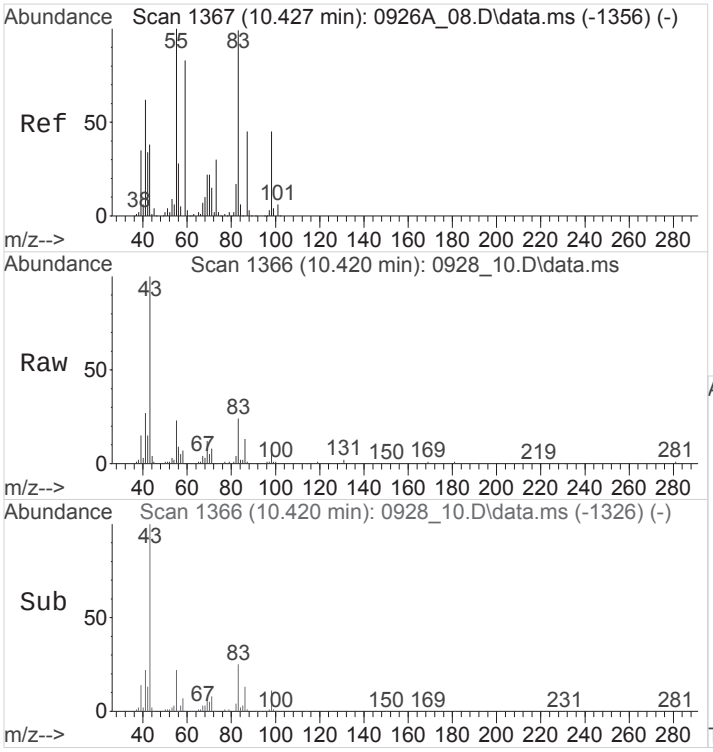


#41
Trichloroethene
Concen: 1.8716456 ppbv
RT: 10.241 min Scan# 1337
Delta R.T. -0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 95 Resp: 208845

Ion	Ratio	Lower	Upper
95	100		
130	89.6	81.6	122.4
132	85.1	77.8	116.6

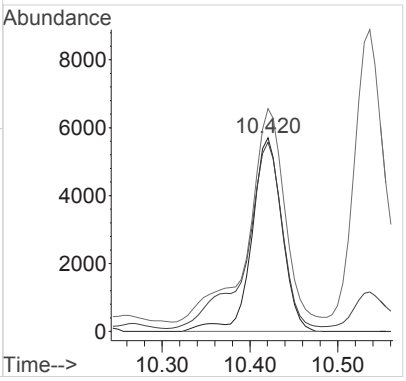


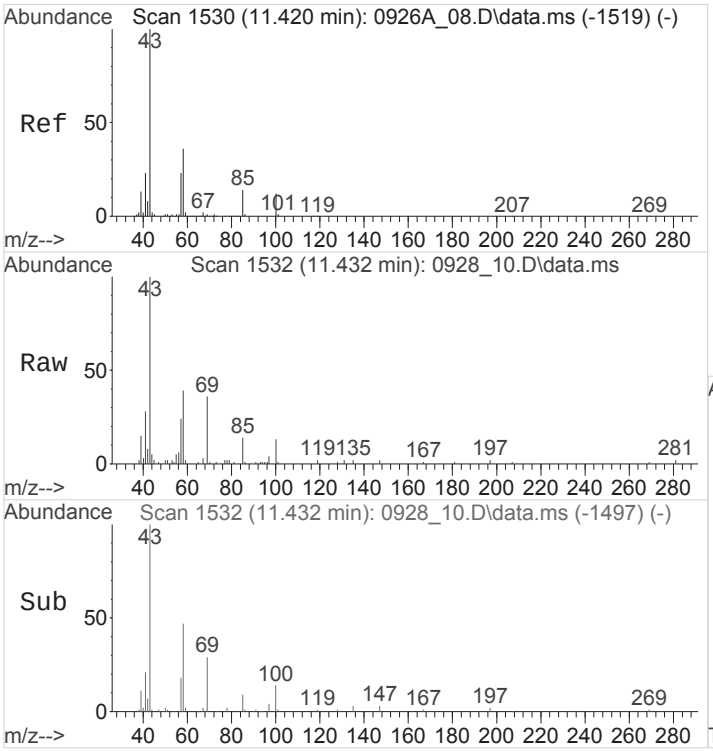


#43
METHYL CYCLOHEXANE
Concen: 0.8596173 ppbv
RT: 10.422 min Scan# 1366
Delta R.T. -0.004 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 83 Resp: 135927

Ion	Ratio	Lower	Upper
83	100		
55	113.8	91.4	137.0
41	129.7	56.8	85.2#

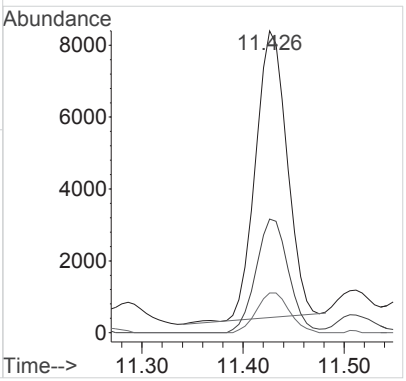


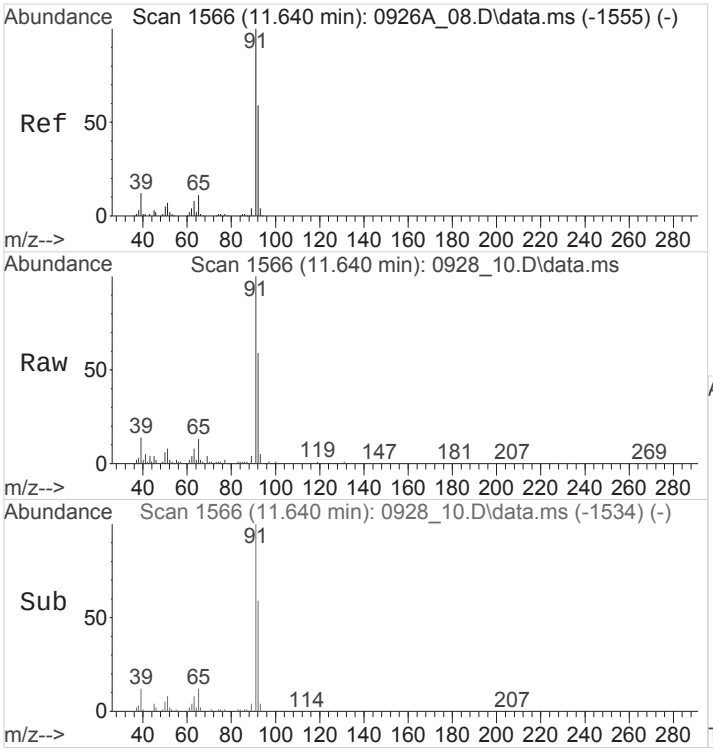


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.6670236 ppbv
RT: 11.430 min Scan# 1532
Delta R.T. 0.008 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 170829

Ion	Ratio	Lower	Upper
43	100		
58	39.7	29.0	43.6
85	14.7	11.0	16.6

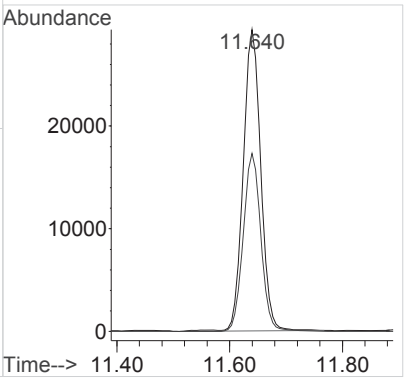


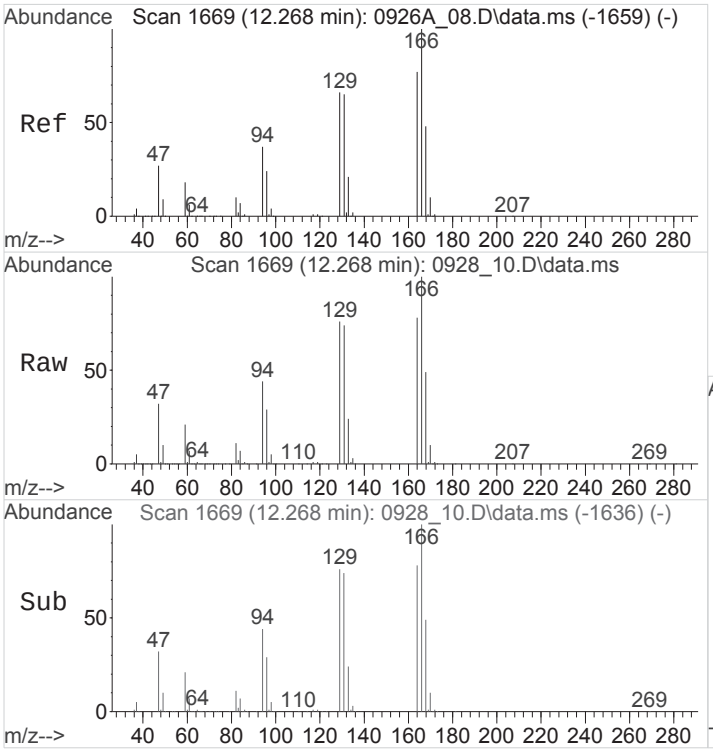


#50
Toluene
Concen: 1.8554531 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 633953

Ion	Ratio	Lower	Upper
91	100		
92	58.7	46.6	70.0

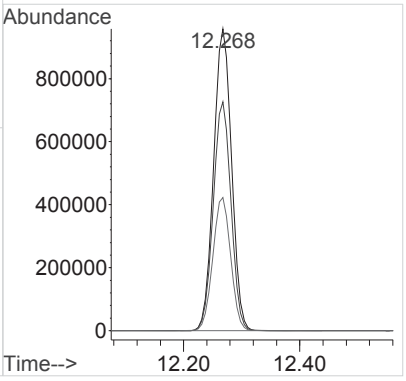


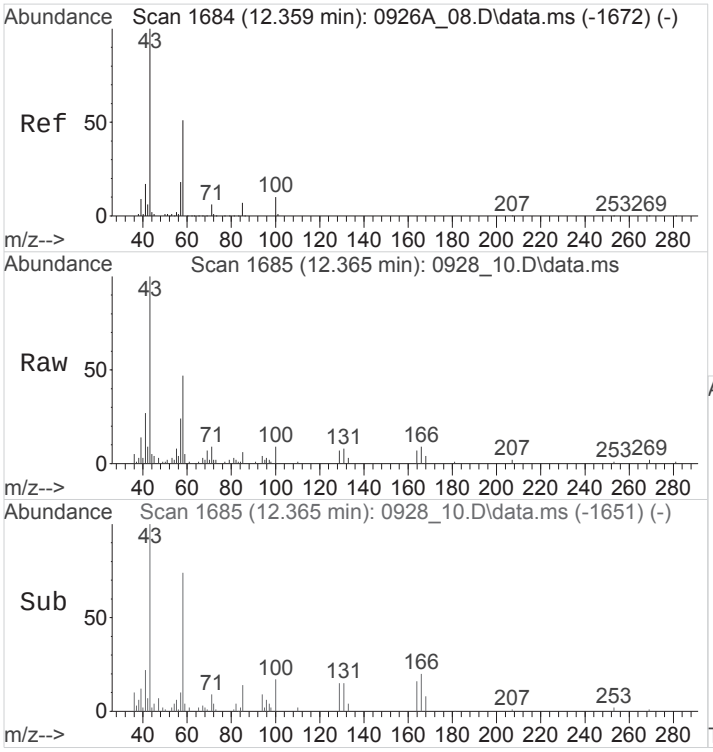


#53
Tetrachloroethene
Concen: 143.0507843 ppbv
RT: 12.270 min Scan# 1669
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:166 Resp:20625025

Ion	Ratio	Lower	Upper
166	100		
129	75.0	55.0	82.6
94	44.0	31.3	46.9

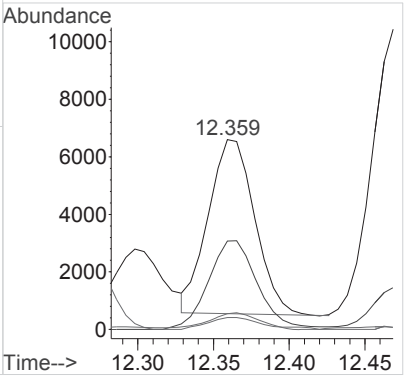


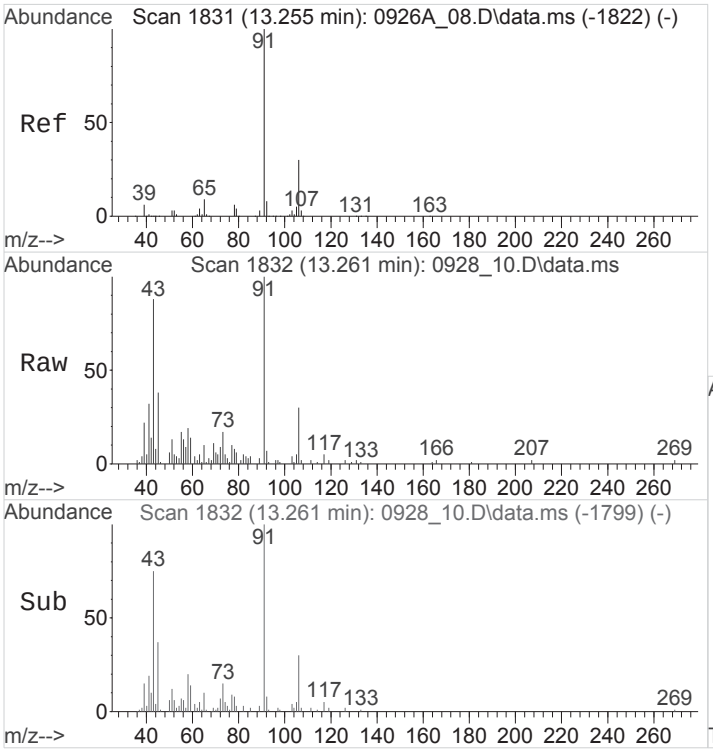


#54
Methyl Butyl Ketone
Concen: 0.6741359 ppbv
RT: 12.364 min Scan# 1685
Delta R.T. 0.007 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 131824

Ion	Ratio	Lower	Upper
43	100		
58	49.9	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

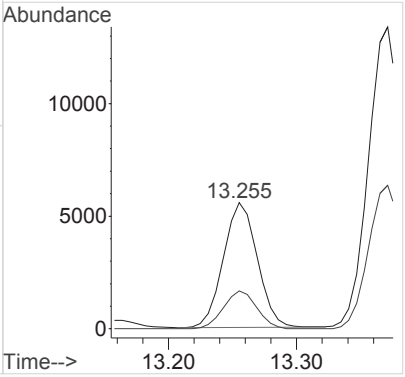


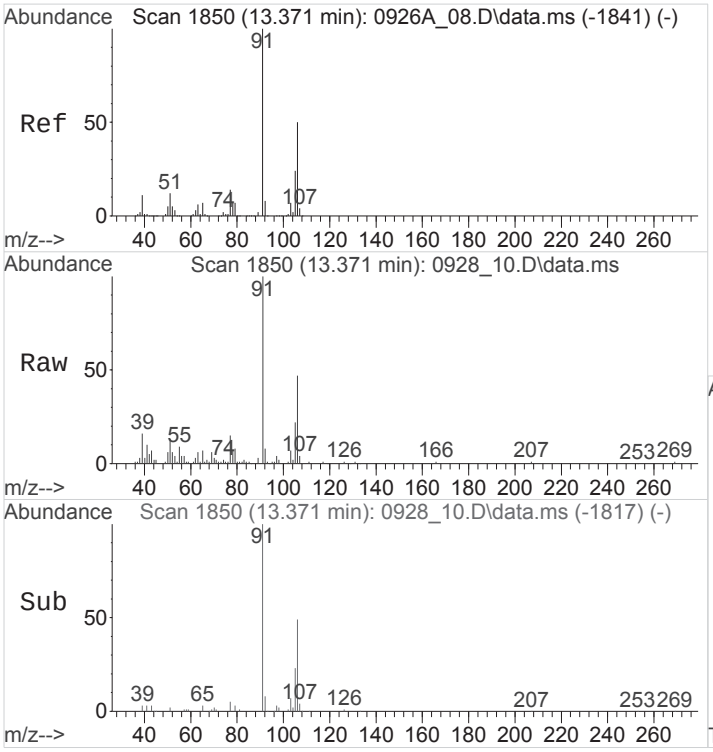


#59
Ethylbenzene
Concen: 0.2656965 ppbv
RT: 13.259 min Scan# 1832
Delta R.T. 0.001 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 101396

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

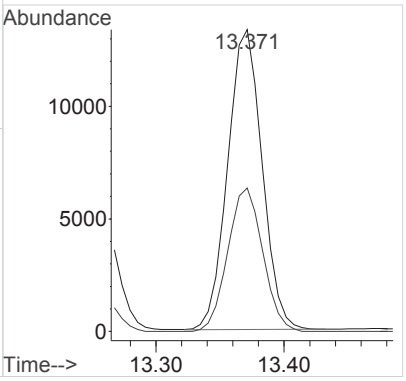


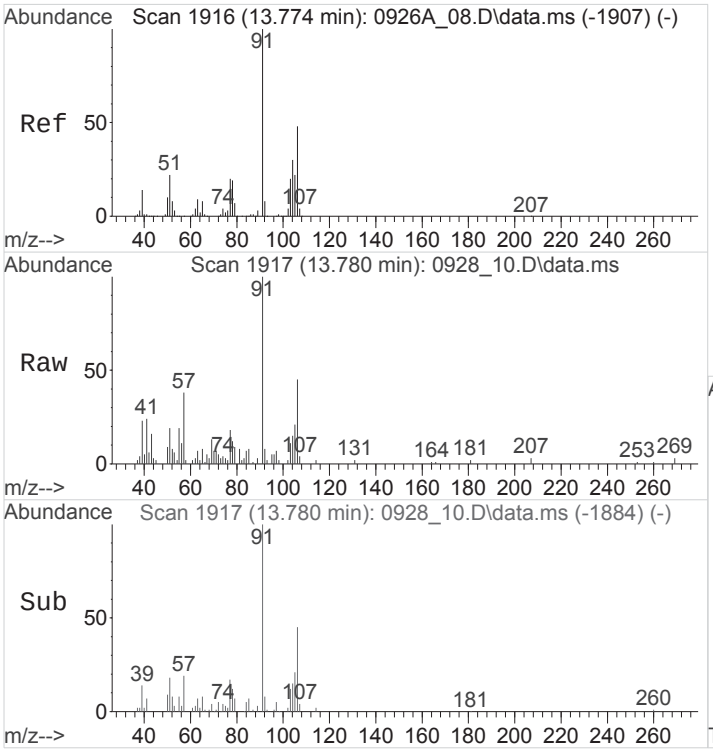


#60
M&P-Xylene
Concen: 0.8593670 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 247849

Ion	Ratio	Lower	Upper
91	100		
106	48.7	39.8	59.6

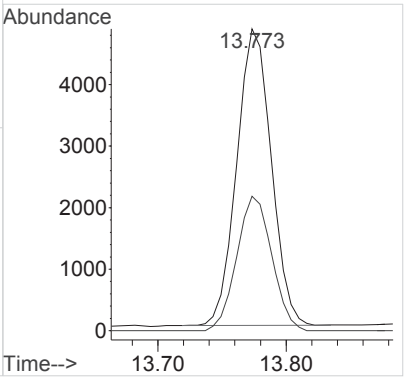


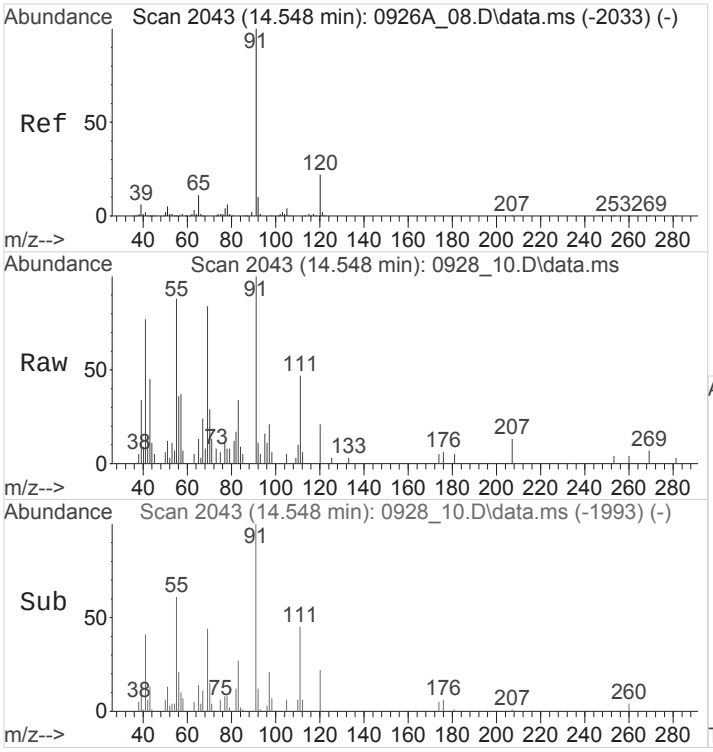


#61
O-Xylene
Concen: 0.3067135 ppbv
RT: 13.778 min Scan# 1917
Delta R.T. 0.001 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 90071

Ion	Ratio	Lower	Upper
91	100		
106	46.1	38.2	57.2

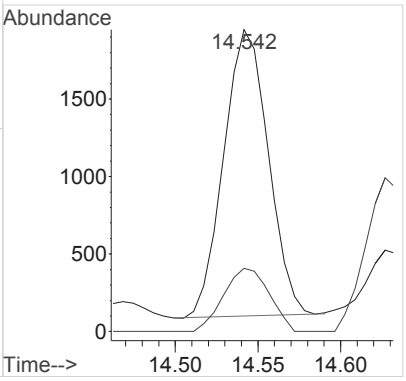


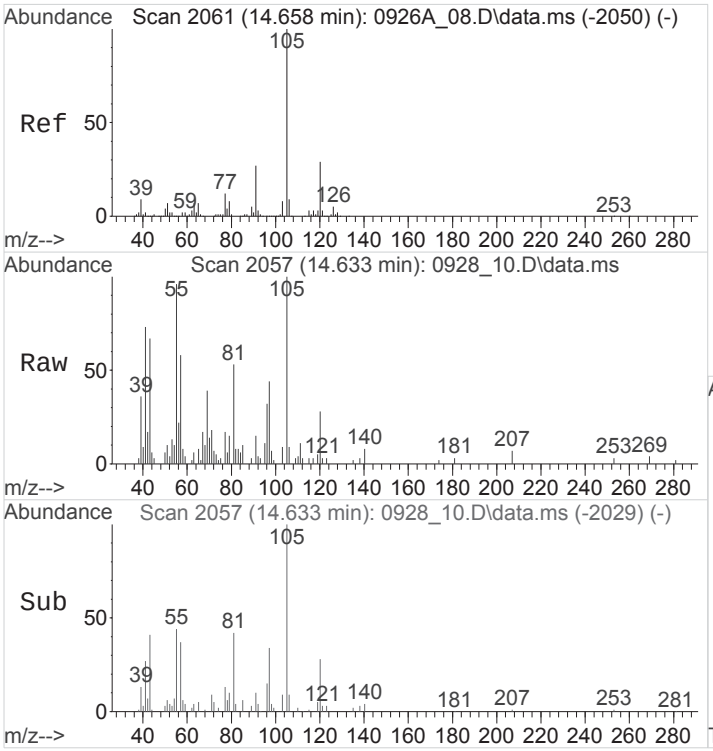


#66
n-Propylbenzene
Concen: 0.0722744 ppbv
RT: 14.545 min Scan# 2043
Delta R.T. 0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 34617

Ion	Ratio	Lower	Upper
91	100		
120	70.2	17.1	25.7#

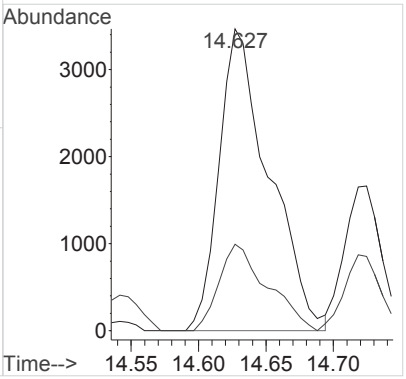


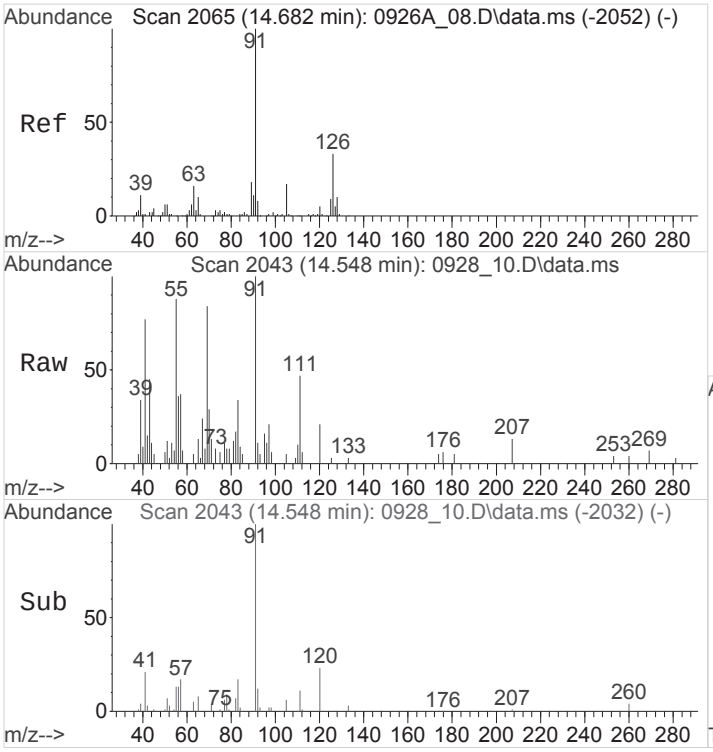


#67
4-Ethyltoluene
Concen: 0.2275194 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.029 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:105 Resp: 88851

Ion	Ratio	Lower	Upper
105	100		
120	27.3	23.2	34.8

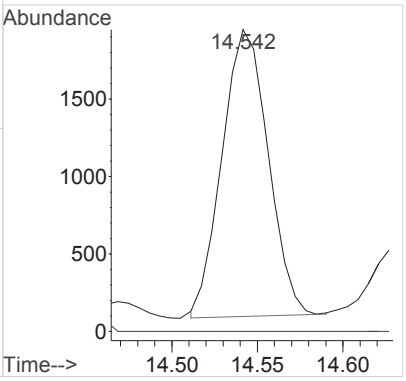


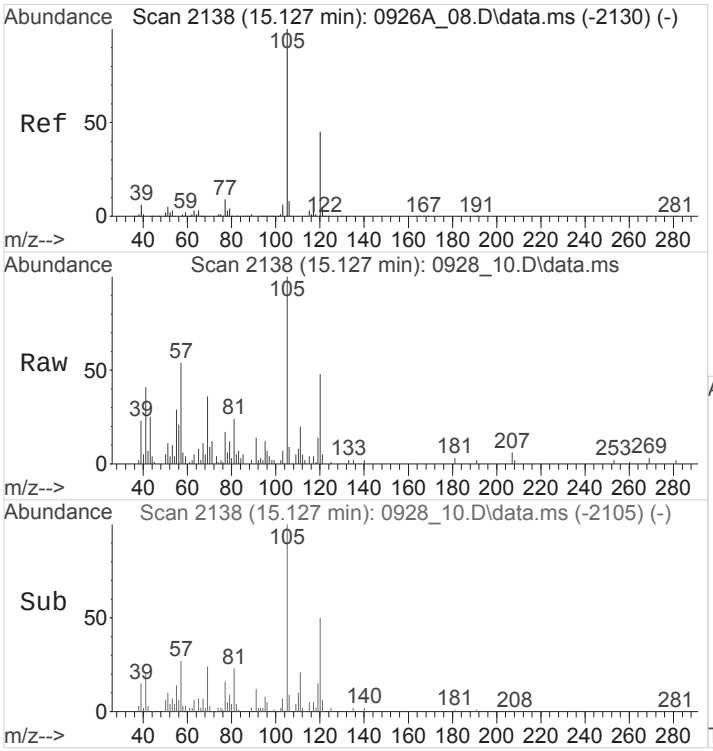


#68
2-Chlorotoluene
Concen: 0.0954672 ppbv
RT: 14.545 min Scan# 2043
Delta R.T. -0.135 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 34682

Ion	Ratio	Lower	Upper
91	100		
126	0.0	20.7	31.1#

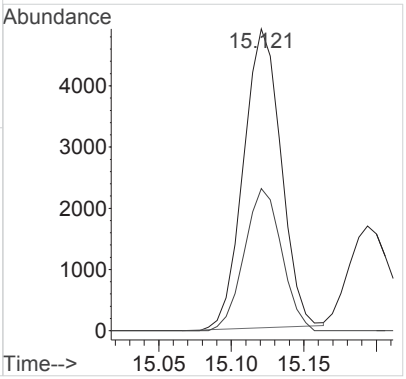


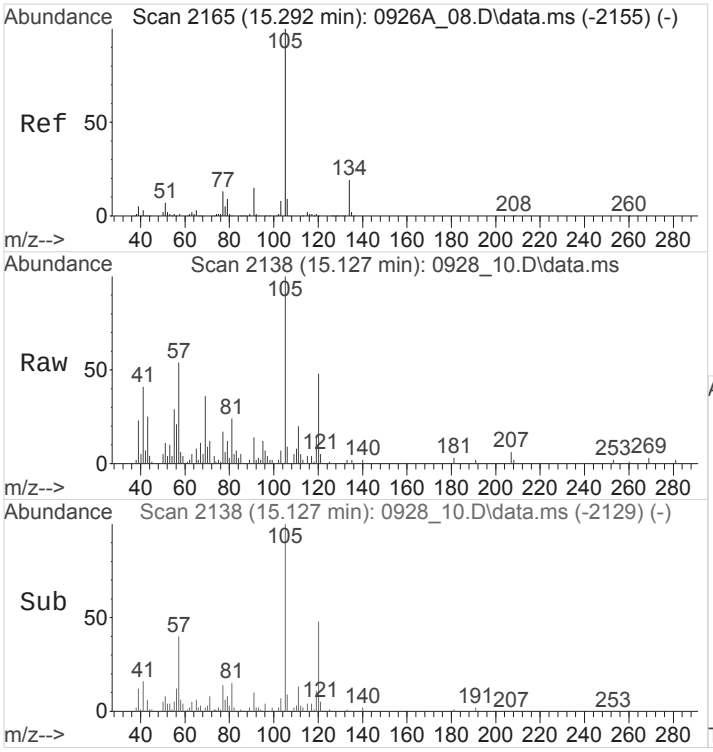


#72
1,2,4-Trimethylbenzene
Concen: 0.2688448 ppbv
RT: 15.124 min Scan# 2138
Delta R.T. 0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:105 Resp: 87434

Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.5	56.3

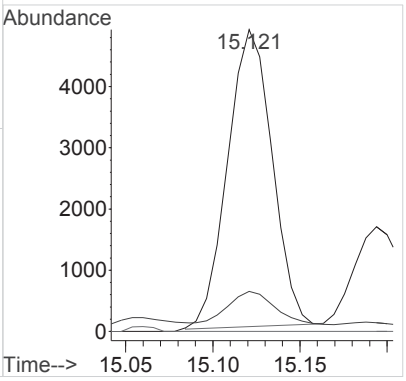


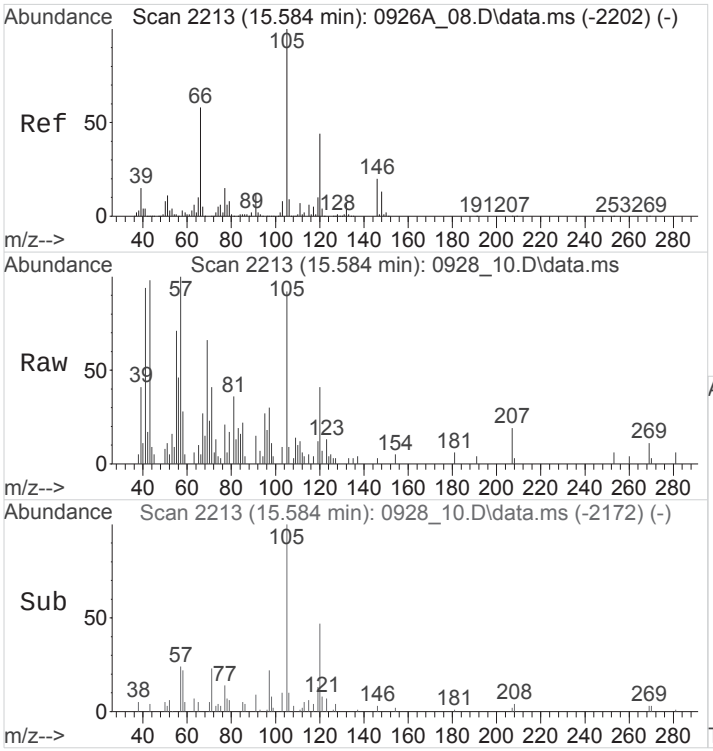


#73
sec-Butylbenzene
Concen: 0.1710268 ppbv
RT: 15.124 min Scan# 2138
Delta R.T. -0.171 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:105 Resp: 86081

Ion	Ratio	Lower	Upper
105	100		
91	0.0	12.2	18.2#
134	0.0	15.1	22.7#

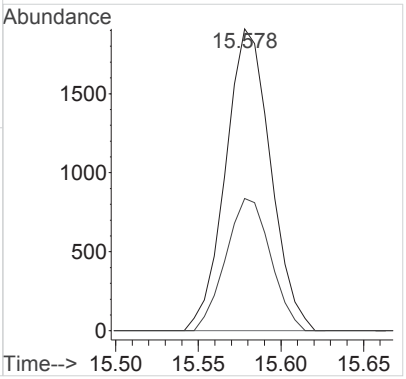


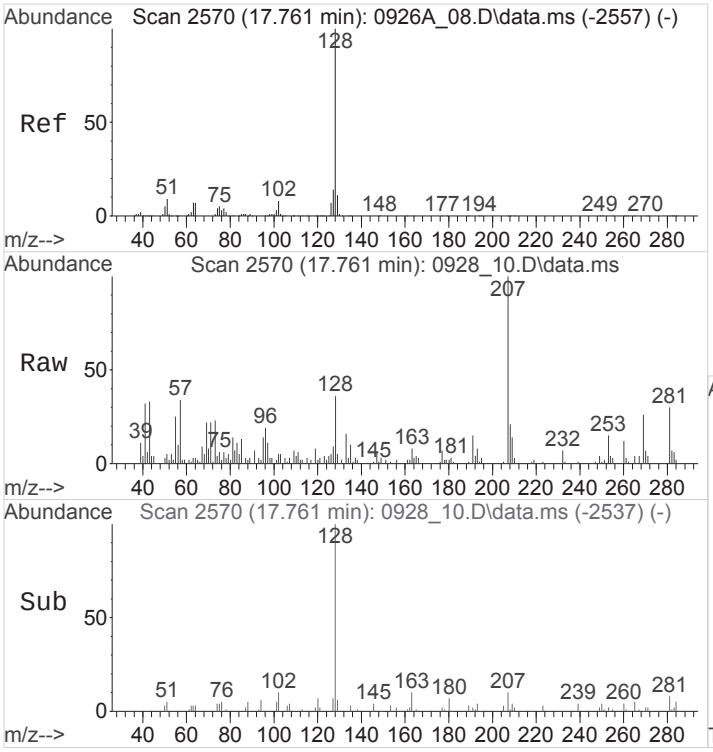


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.1097318 ppbv
RT: 15.582 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:105 Resp: 36210

Ion	Ratio	Lower	Upper
105	100		
120	0.0	34.6	52.0#

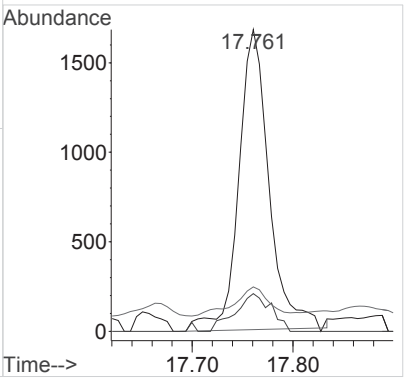


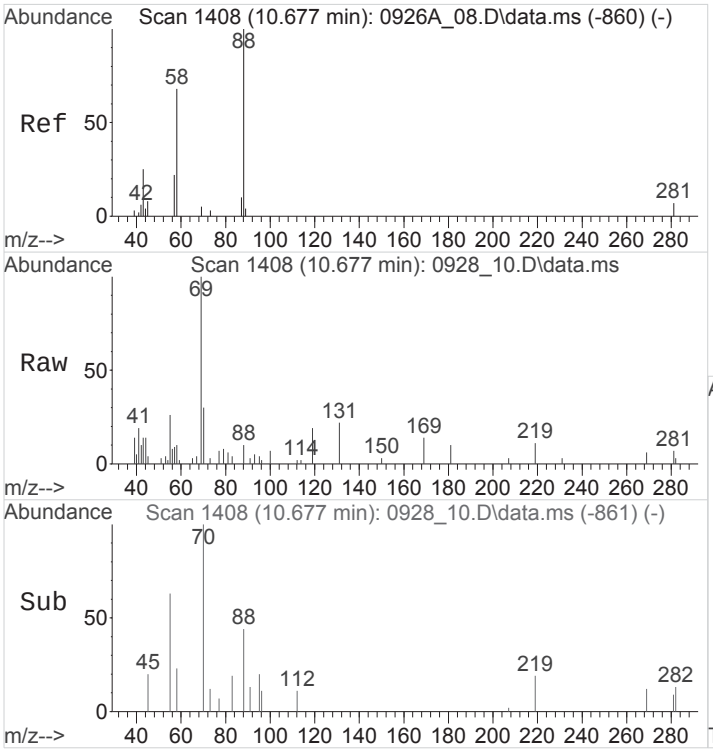


#83
Naphthalene
Concen: 0.2017578 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:128 Resp: 35000

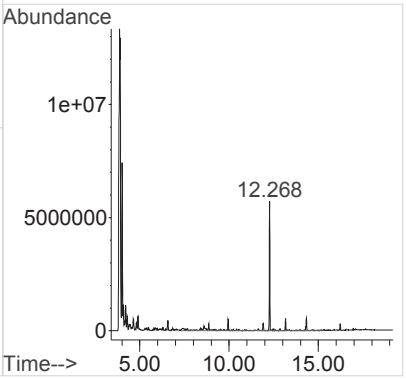
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 340.9125461 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_10.D
Acq: 28 Sep 2016 1:44 pm

Tgt Ion:TIC Resp:231267580



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_11.D
Acq On : 28 Sep 2016 2:30 pm
Operator : 564
Sample : L861822-07 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:43:04 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

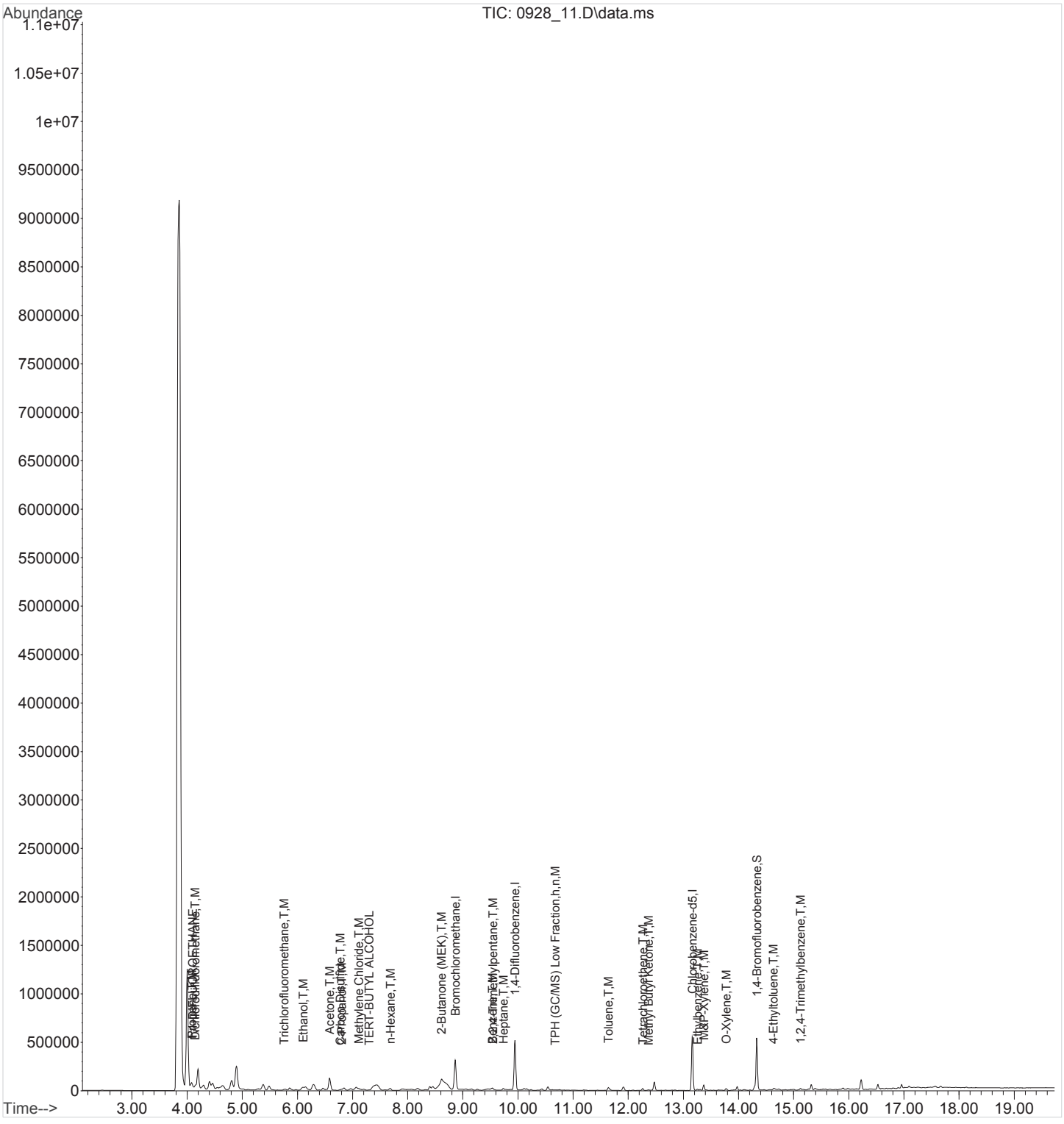
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.866	130	1123887	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.948	114	4642063	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	3335503	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2031718	3.9206649	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.02%			
Target Compounds						Qvalue
2) Propene	4.084	41	338421	3.5004860	ppbv	94
3) 1,1-DIFLUOROETHANE	4.097	65	46151	0.7501470	ppbv	95
4) Dichlorodifluoromethane	4.149	85	64637	0.3478223	ppbv #	42
13) Trichlorofluoromethane	5.760	101	75690	0.4219758	ppbv	99
14) Ethanol	6.107	45	224825	13.8776909	ppbv	100
17) Acetone	6.585	43	2010696	6.9533837	ppbv	100
18) 2-Propanol	6.805	45	161193	0.8252818	ppbv #	74
19) Carbon Disulfide	6.773	76	78737	0.3142377	ppbv #	60
21) Methylene Chloride	7.117	49	108639	0.9145559	ppbv	97
22) TERT-BUTYL ALCOHOL	7.298	59	97065	0.4478675	ppbv #	60
25) n-Hexane	7.690	57	93909	0.6143840	ppbv #	24
29) 2-Butanone (MEK)	8.616	72	110202	2.4607029	ppbv	96
36) 2,2,4-Trimethylpentane	9.544	57	76267	0.1493131	ppbv #	66
38) Benzene	9.537	78	65525	0.2165682	ppbv #	83
40) Heptane	9.735	43	89307	0.4274472	ppbv #	60
50) Toluene	11.642	91	245264	0.6796284	ppbv	99
53) Tetrachloroethene	12.266	166	78324	0.5143215	ppbv	99
54) Methyl Butyl Ketone	12.371	43	68192	0.3301676	ppbv #	92
59) Ethylbenzene	13.258	91	82569	0.2055247	ppbv #	44
60) M&P-Xylene	13.371	91	331373	1.0914190	ppbv	100
61) O-Xylene	13.778	91	100263	0.3243190	ppbv	97
67) 4-Ethyltoluene	14.632	105	56733	0.1379989	ppbv #	46
72) 1,2,4-Trimethylbenzene	15.125	105	72821	0.2126964	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	53632217m	75.0994681	ppbv	

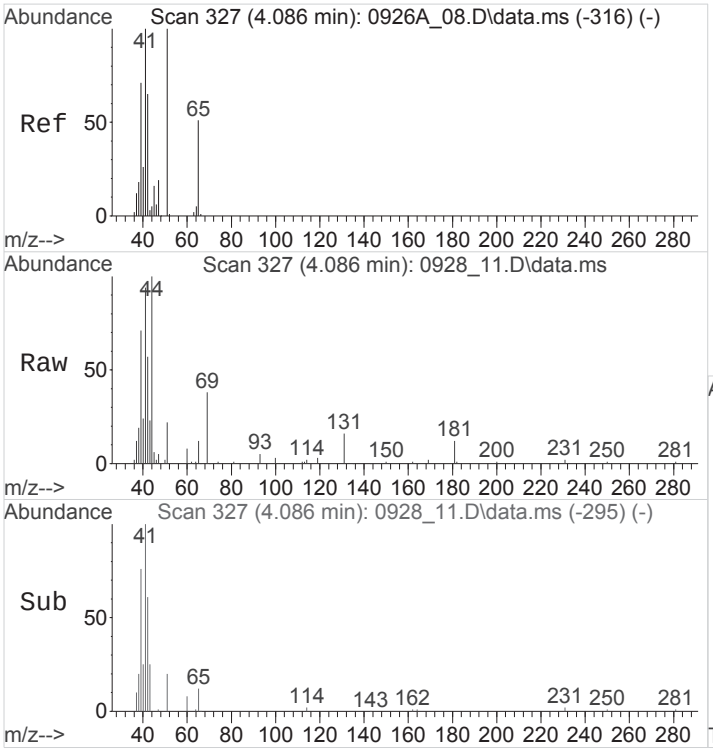
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_11.D
Acq On : 28 Sep 2016 2:30 pm
Operator : 564
Sample : L861822-07 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:43:04 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

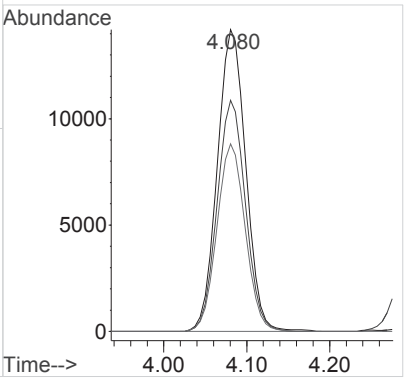


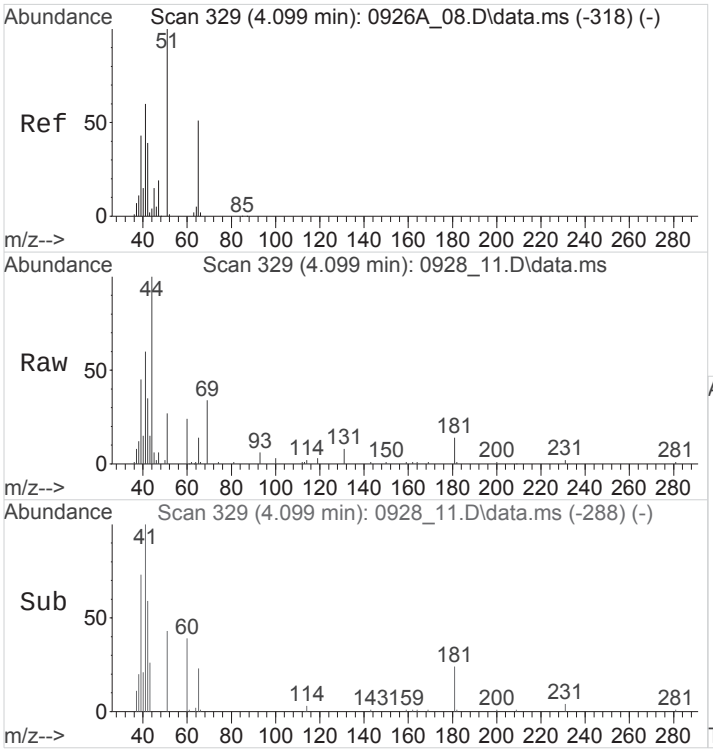


#2
Propene
Concen: 3.5004860 ppbv
RT: 4.084 min Scan# 327
Delta R.T. -0.005 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 41 Resp: 338421

Ion	Ratio	Lower	Upper
41	100		
39	76.2	56.5	84.7
42	61.9	52.2	78.4

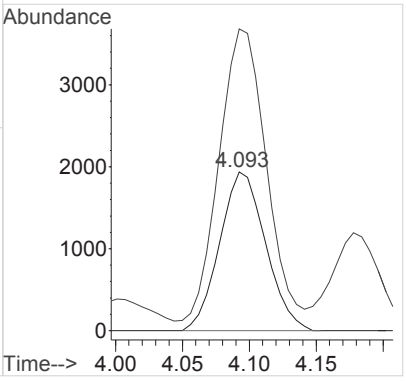


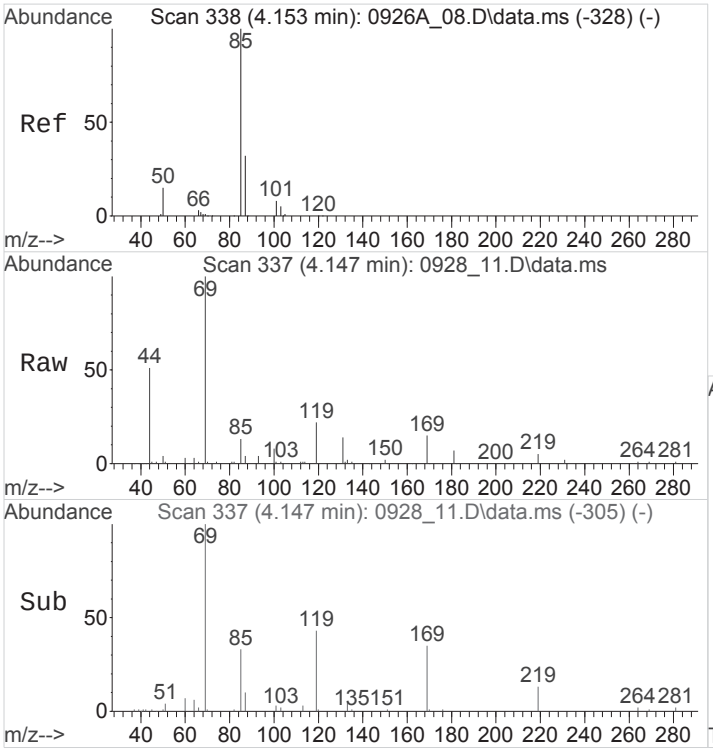


#3
1,1-DIFLUOROETHANE
Concen: 0.7501470 ppbv
RT: 4.097 min Scan# 329
Delta R.T. -0.002 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 65 Resp: 46151

Ion	Ratio	Lower	Upper
65	100		
51	200.5	154.7	232.1

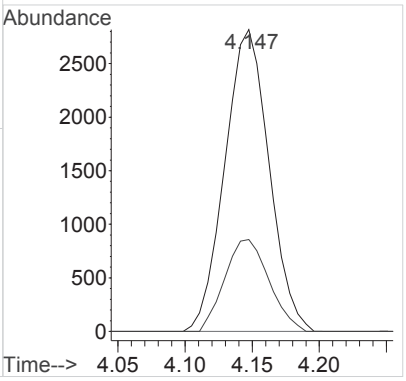


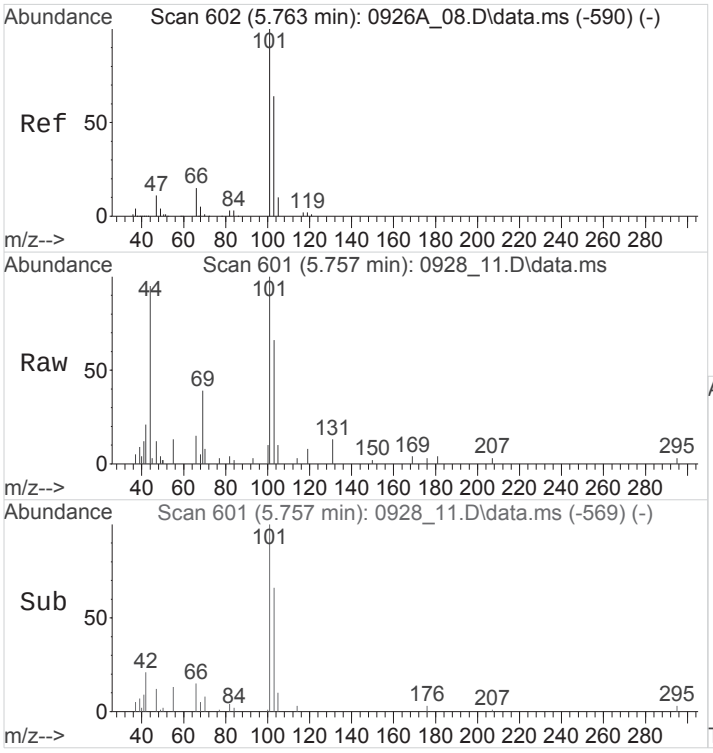


#4
Dichlorodifluoromethane
Concen: 0.3478223 ppbv
RT: 4.149 min Scan# 337
Delta R.T. -0.004 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 85 Resp: 64637

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

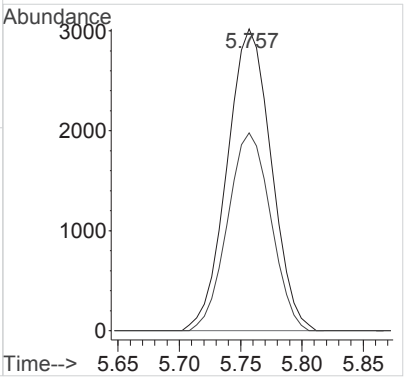


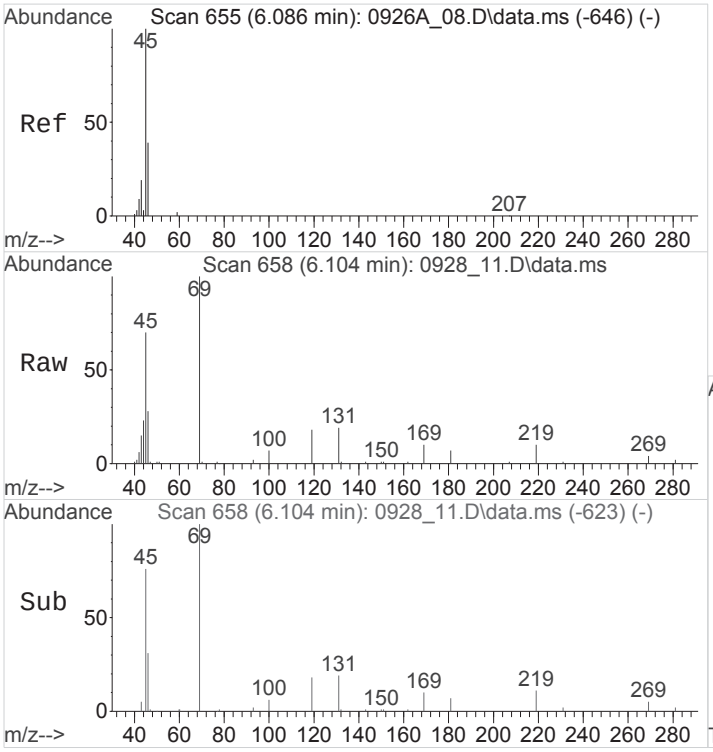


#13
Trichlorofluoromethane
Concen: 0.4219758 ppbv
RT: 5.760 min Scan# 601
Delta R.T. -0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion:101 Resp: 75690

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.7	77.5

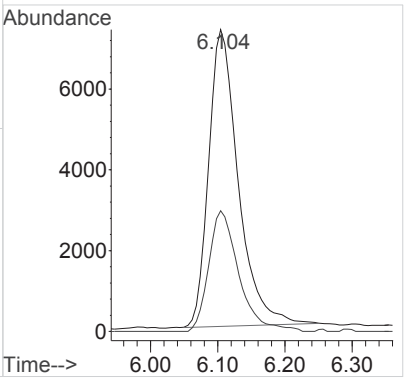


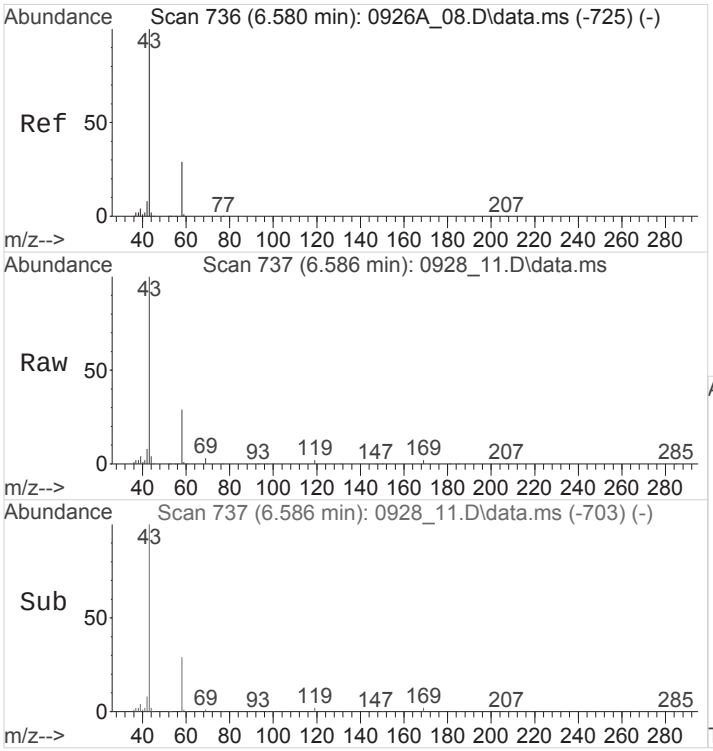


#14
Ethanol
Concen: 13.8776909 ppbv
RT: 6.107 min Scan# 658
Delta R.T. 0.019 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 45 Resp: 224825

Ion	Ratio	Lower	Upper
45	100		
46	41.4	33.0	49.4

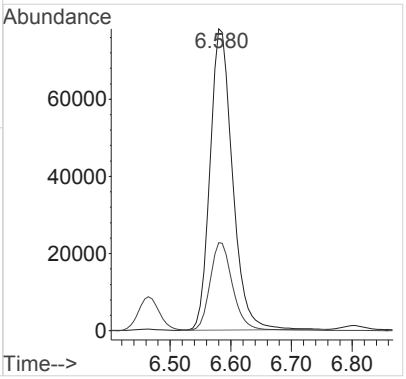


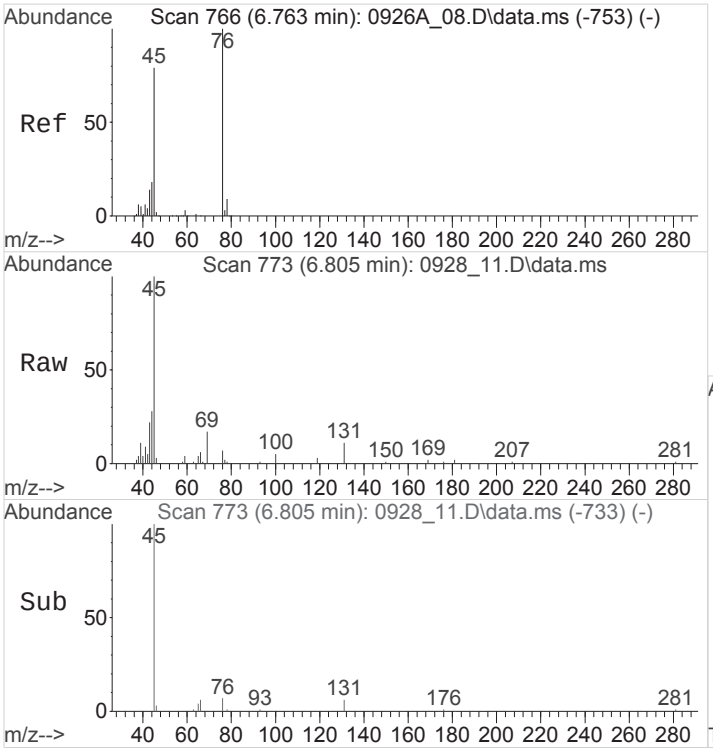


#17
Acetone
Concen: 6.9533837 ppbv
RT: 6.585 min Scan# 737
Delta R.T. 0.006 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 43 Resp: 2010696

Ion	Ratio	Lower	Upper
43	100		
58	28.8	23.1	34.7

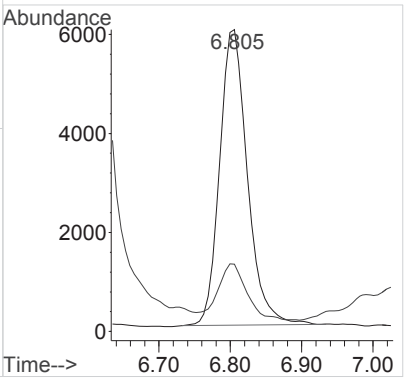


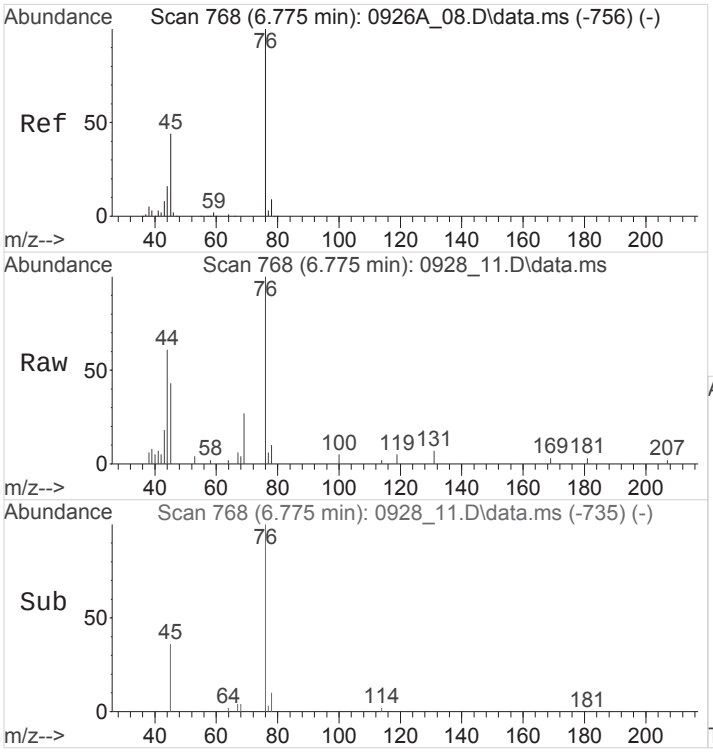


#18
2-Propanol
Concen: 0.8252818 ppbv
RT: 6.805 min Scan# 773
Delta R.T. 0.045 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 45 Resp: 161193

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

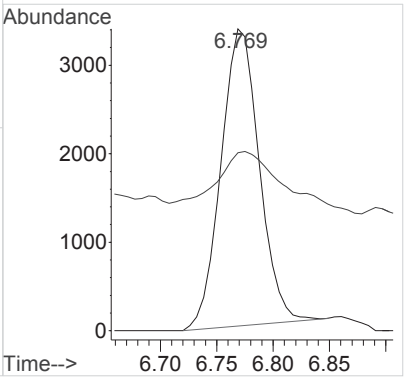


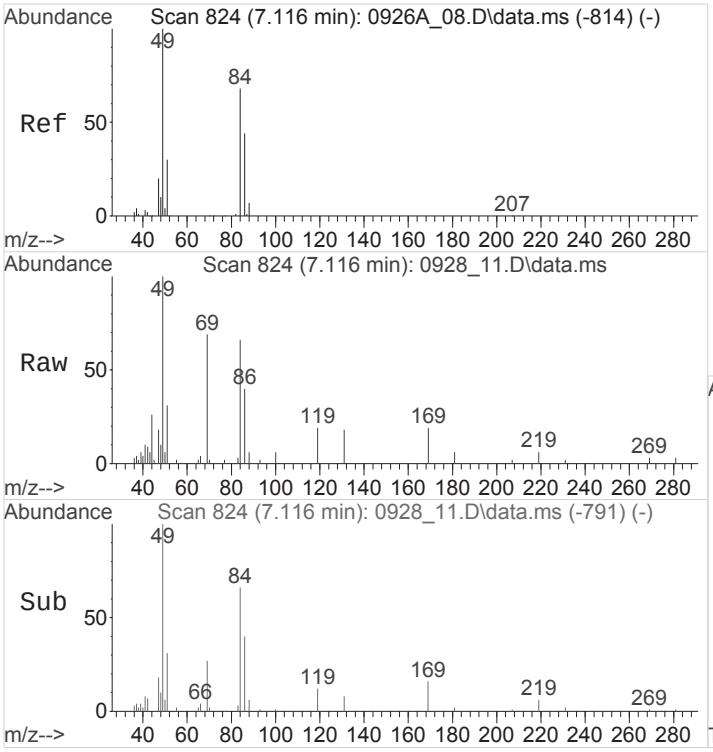


#19
Carbon Disulfide
Concen: 0.3142377 ppbv
RT: 6.773 min Scan# 768
Delta R.T. -0.002 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 76 Resp: 78737

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.2	21.2#

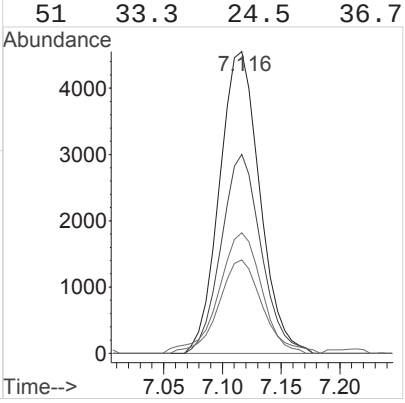


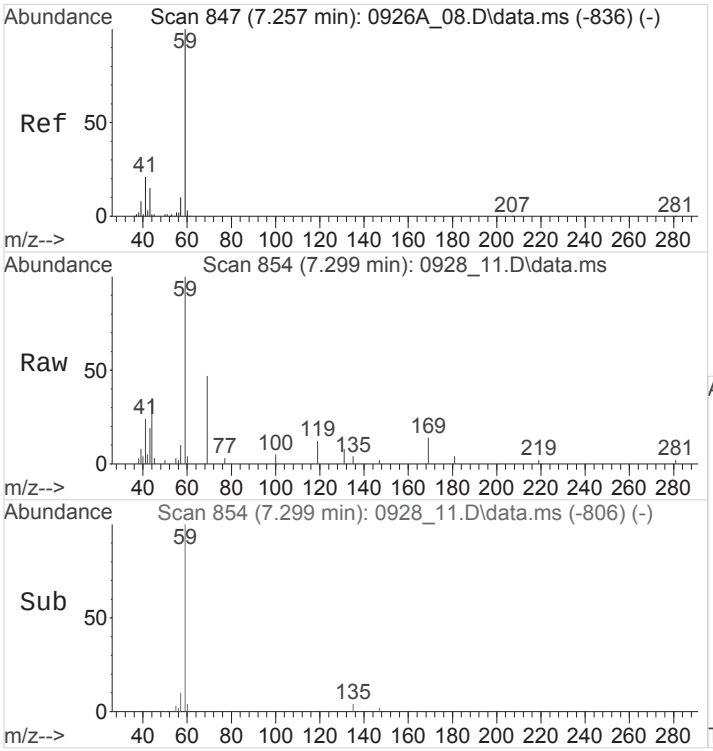


#21
Methylene Chloride
Concen: 0.9145559 ppbv
RT: 7.117 min Scan# 824
Delta R.T. 0.000 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 49 Resp: 108639

Ion	Ratio	Lower	Upper
49	100		
84	65.5	54.2	81.2
86	42.3	35.1	52.7
51	33.3	24.5	36.7

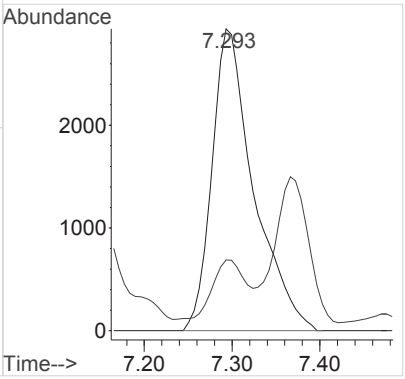


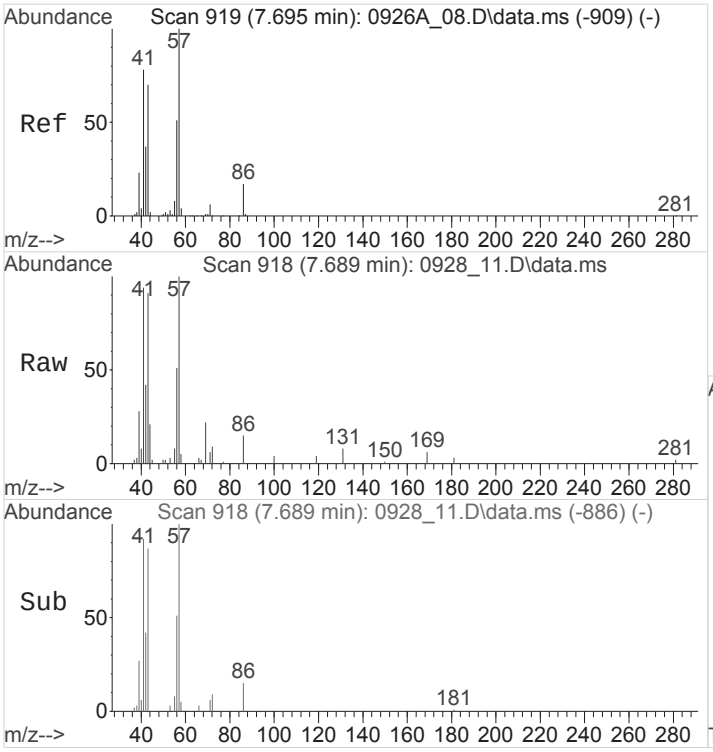


#22
TERT-BUTYL ALCOHOL
Concen: 0.4478675 ppbv
RT: 7.298 min Scan# 854
Delta R.T. 0.043 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 59 Resp: 97065

Ion	Ratio	Lower	Upper
59	100		
41	39.1	16.5	24.7#

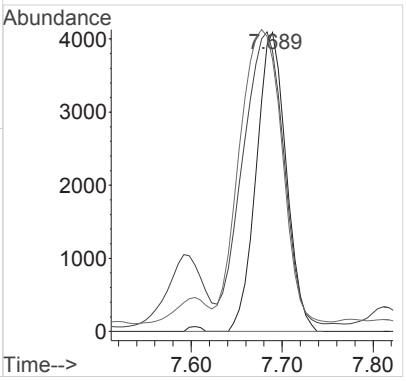


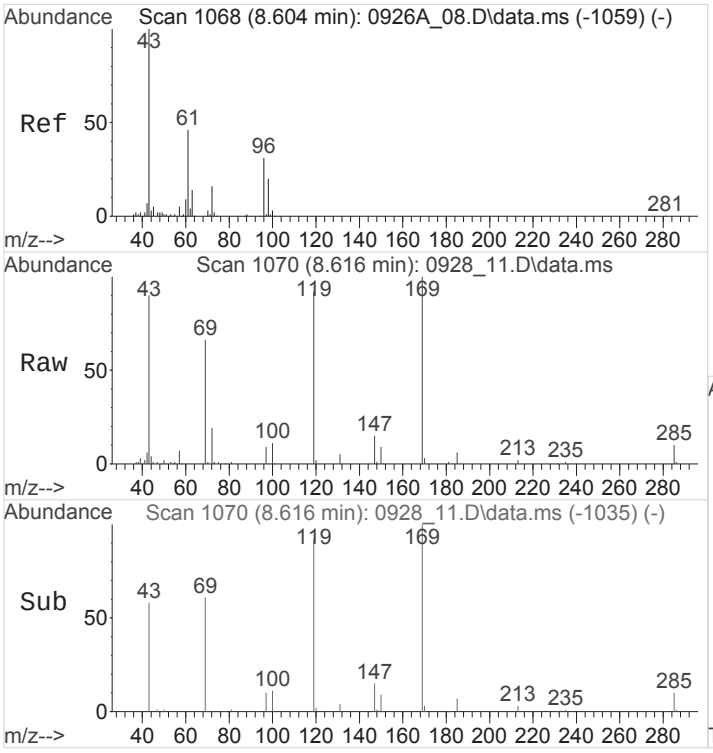


#25
n-Hexane
Concen: 0.6143840 ppbv
RT: 7.690 min Scan# 918
Delta R.T. -0.002 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 57 Resp: 93909

Ion	Ratio	Lower	Upper
57	100		
41	132.6	63.2	94.8#
43	146.5	56.0	84.0#

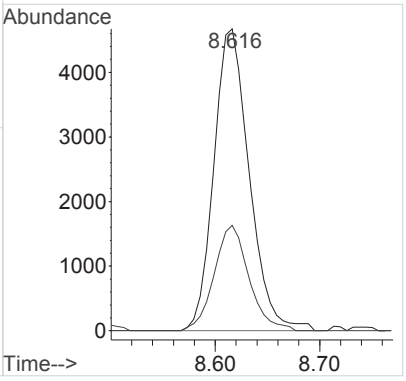


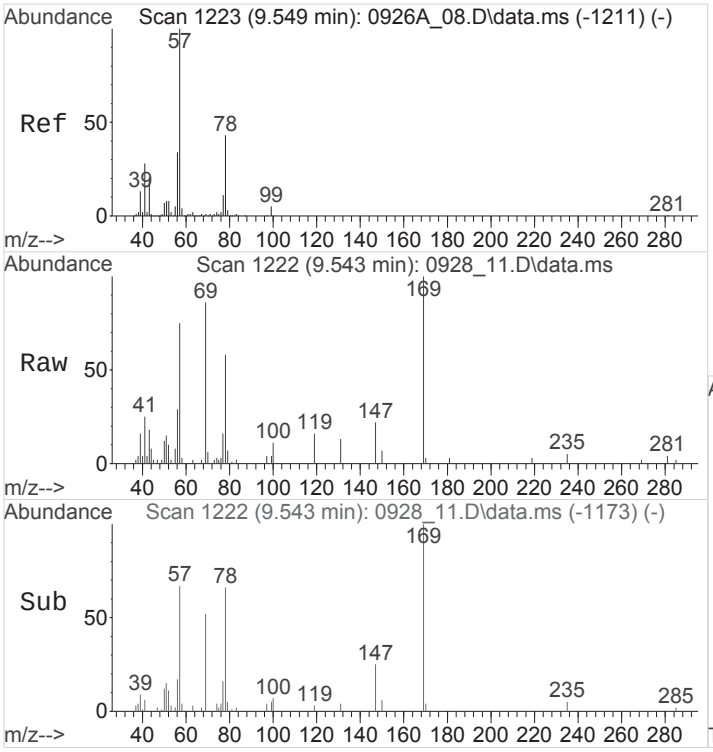


#29
2-Butanone (MEK)
Concen: 2.4607029 ppbv
RT: 8.616 min Scan# 1070
Delta R.T. 0.015 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 72 Resp: 110202

Ion	Ratio	Lower	Upper
72	100		
57	34.3	25.6	38.4

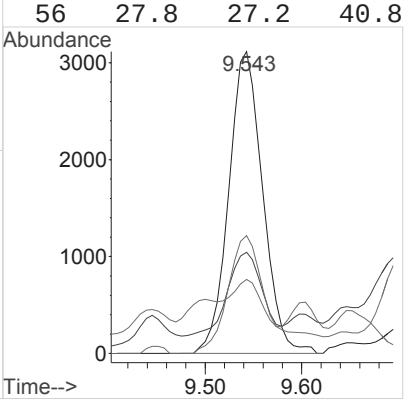


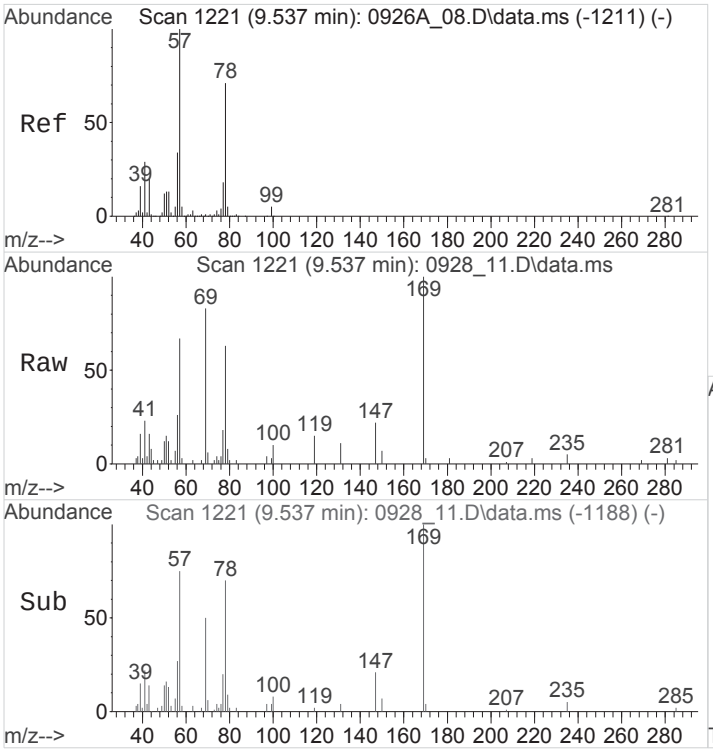


#36
2,2,4-Trimethylpentane
Concen: 0.1493131 ppbv
RT: 9.544 min Scan# 1222
Delta R.T. -0.003 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 57 Resp: 76267

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	27.8	27.2	40.8

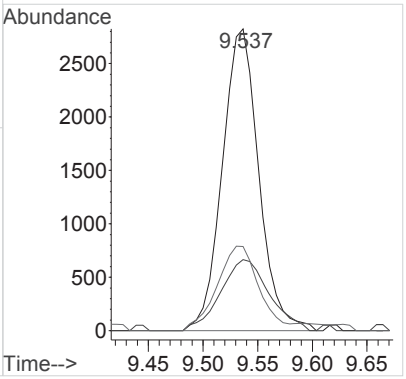


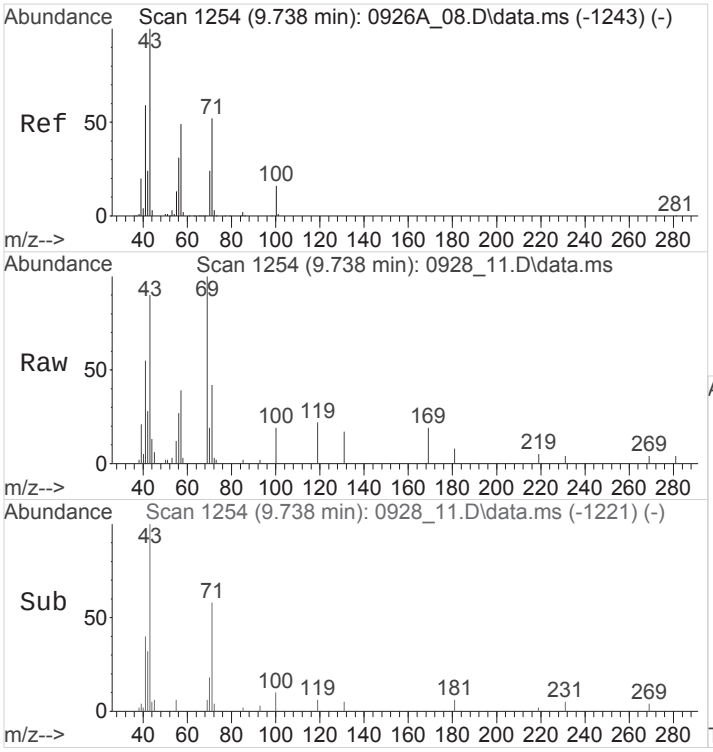


#38
Benzene
Concen: 0.2165682 ppbv
RT: 9.537 min Scan# 1221
Delta R.T. -0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 78 Resp: 65525

Ion	Ratio	Lower	Upper
78	100		
51	31.8	15.4	23.0#
77	29.6	19.9	29.9

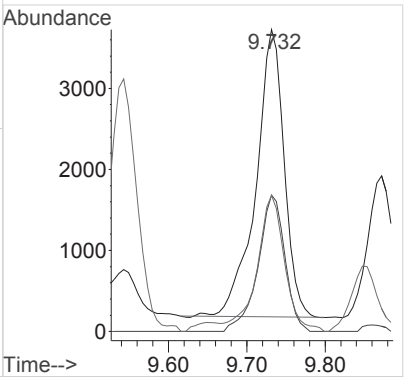


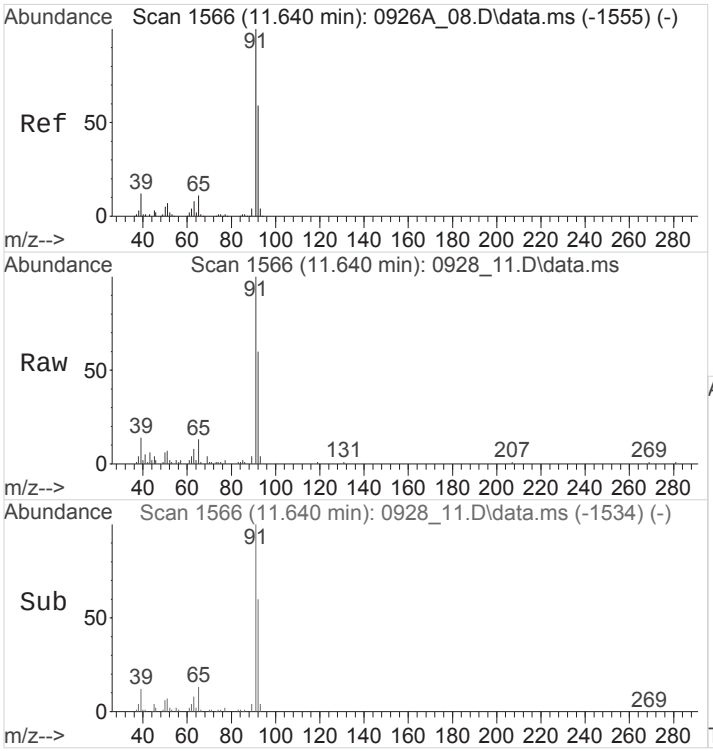


#40
Heptane
Concen: 0.4274472 ppbv
RT: 9.735 min Scan# 1254
Delta R.T. -0.002 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 43 Resp: 89307

Ion	Ratio	Lower	Upper
43	100		
71	44.8	41.4	62.0
57	0.0	39.3	58.9#

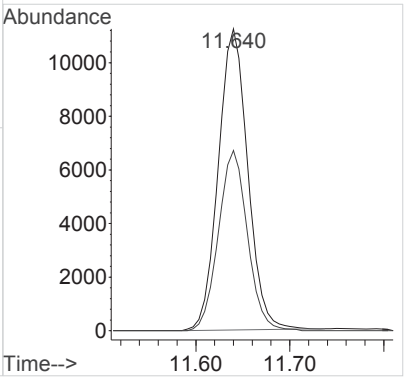


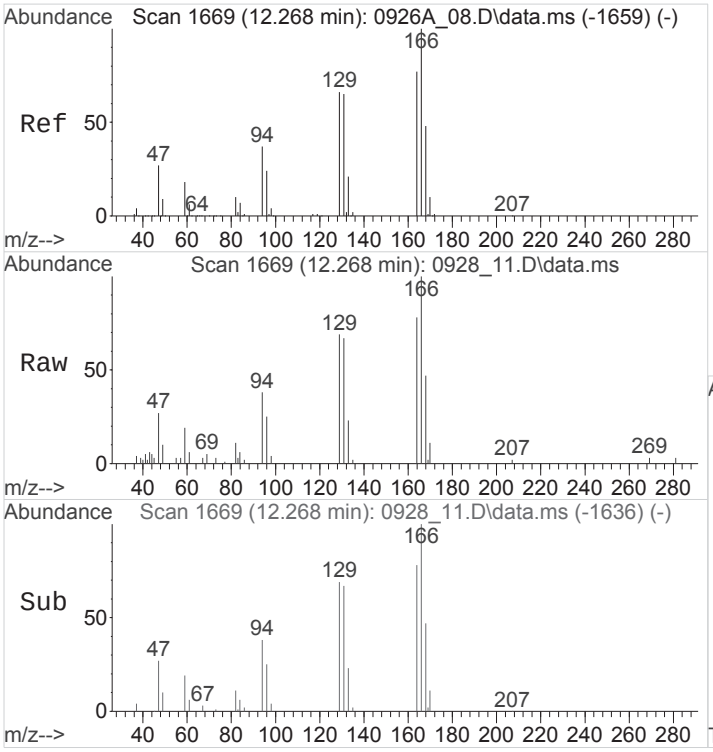


#50
Toluene
Concen: 0.6796284 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 91 Resp: 245264

Ion	Ratio	Lower	Upper
91	100		
92	59.2	46.6	70.0

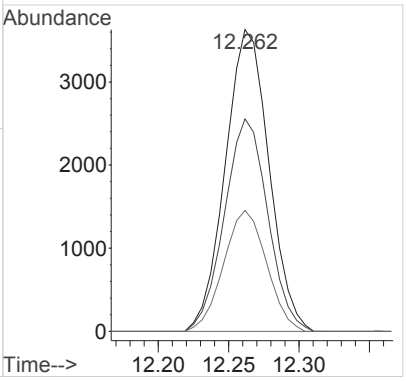


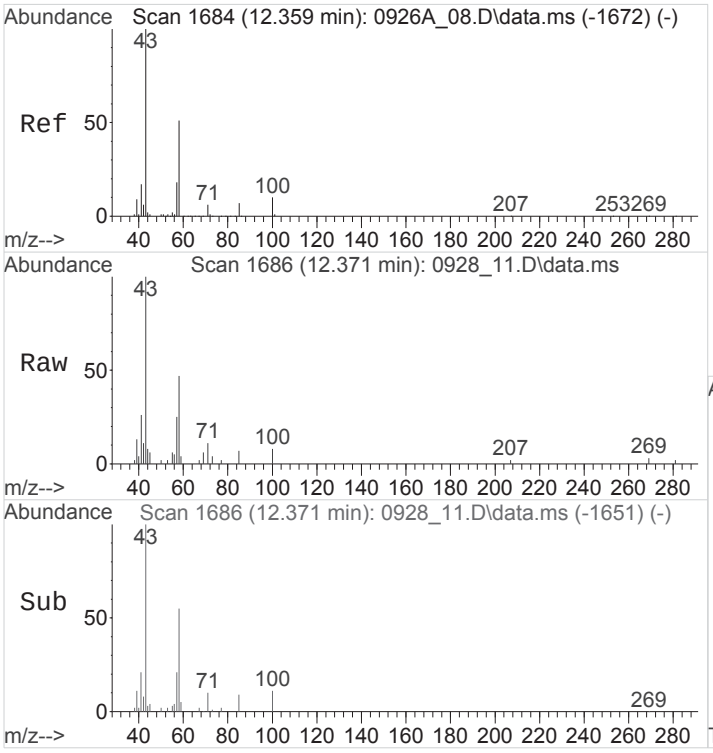


#53
Tetrachloroethene
Concen: 0.5143215 ppbv
RT: 12.266 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion:166 Resp: 78324

Ion	Ratio	Lower	Upper
166	100		
129	69.8	55.0	82.6
94	39.5	31.3	46.9

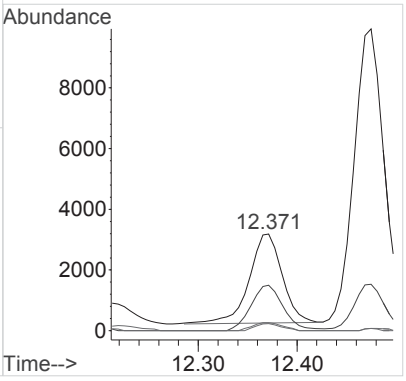


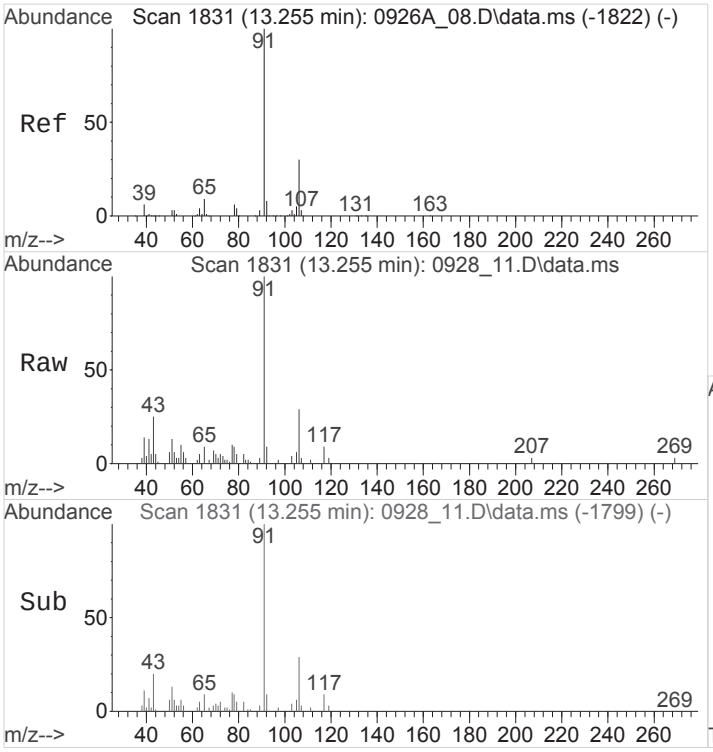


#54
Methyl Butyl Ketone
Concen: 0.3301676 ppbv
RT: 12.371 min Scan# 1686
Delta R.T. 0.014 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 43 Resp: 68192

Ion	Ratio	Lower	Upper
43	100		
58	49.0	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

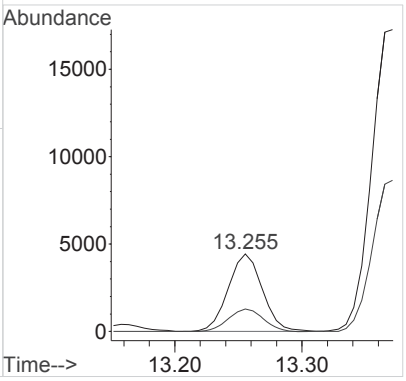


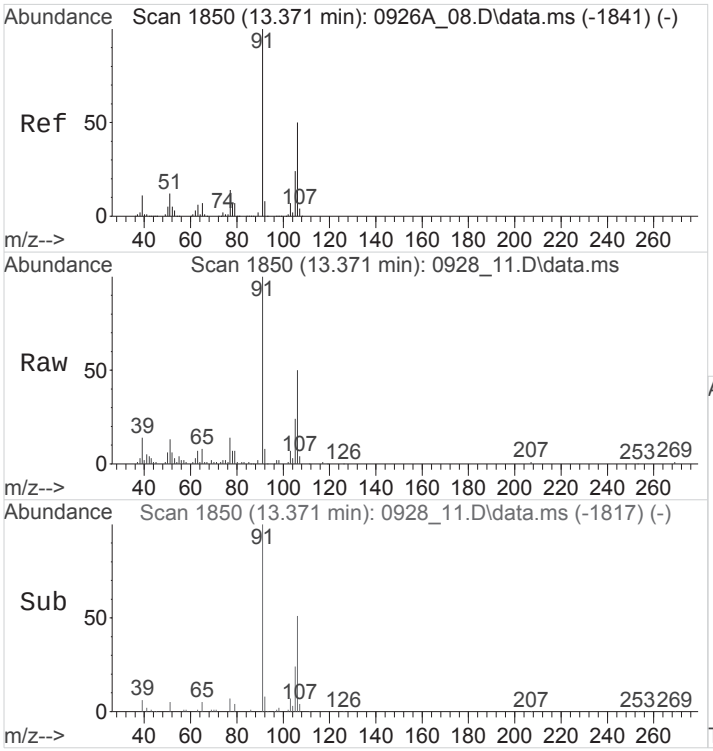


#59
Ethylbenzene
Concen: 0.2055247 ppbv
RT: 13.258 min Scan# 1831
Delta R.T. 0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 91 Resp: 82569

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

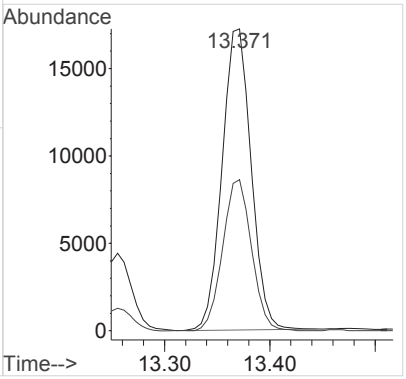


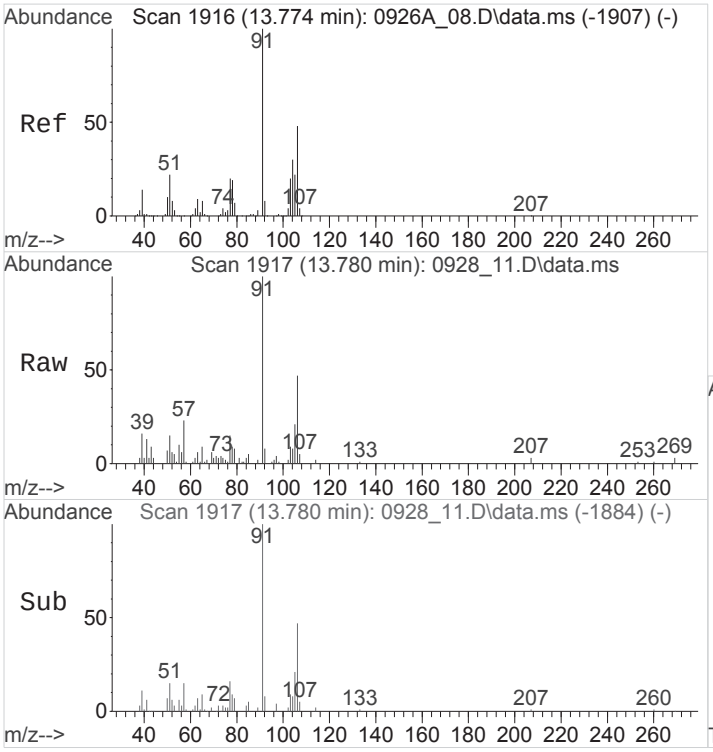


#60
M&P-Xylene
Concen: 1.0914190 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 91 Resp: 331373

Ion	Ratio	Lower	Upper
91	100		
106	49.8	39.8	59.6

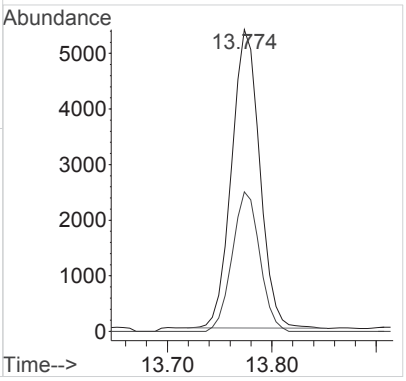


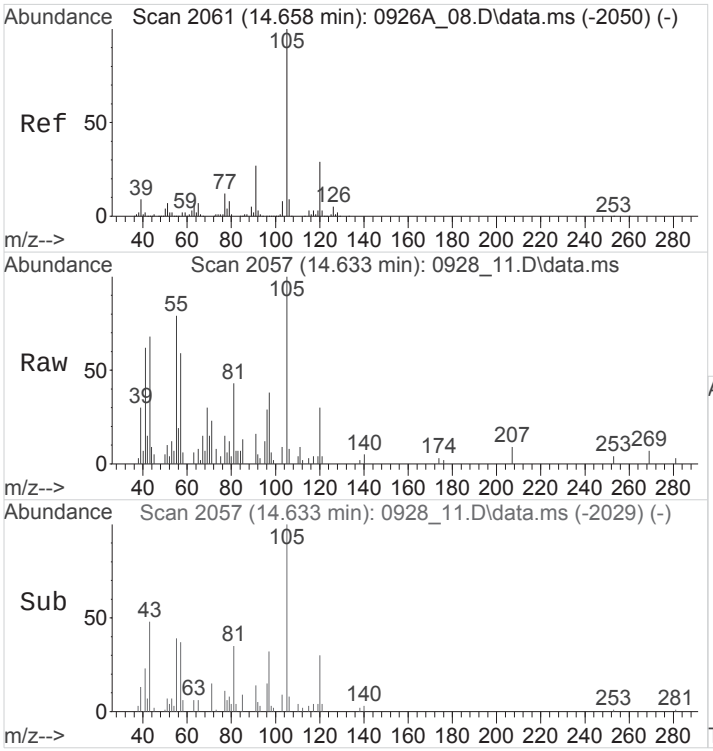


#61
O-Xylene
Concen: 0.3243190 ppbv
RT: 13.778 min Scan# 1917
Delta R.T. 0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion: 91 Resp: 100263

Ion	Ratio	Lower	Upper
91	100		
106	45.8	38.2	57.2

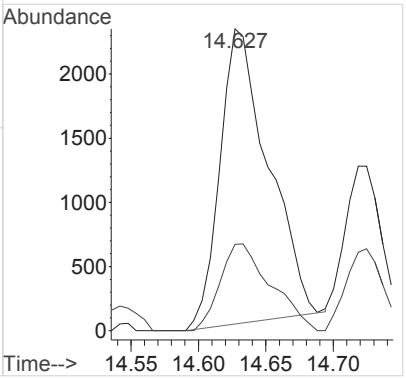


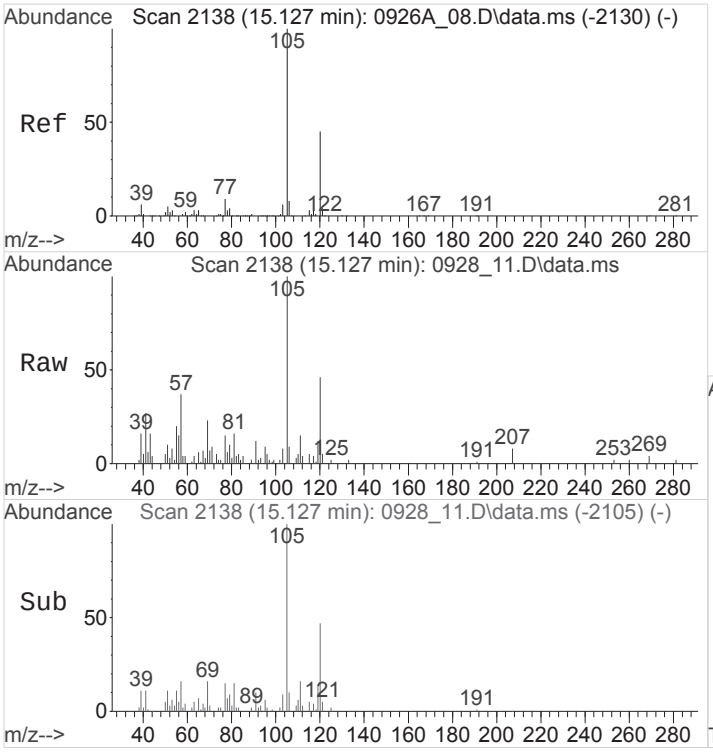


#67
4-Ethyltoluene
Concen: 0.1379989 ppbv
RT: 14.632 min Scan# 2057
Delta R.T. -0.028 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion:105 Resp: 56733

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

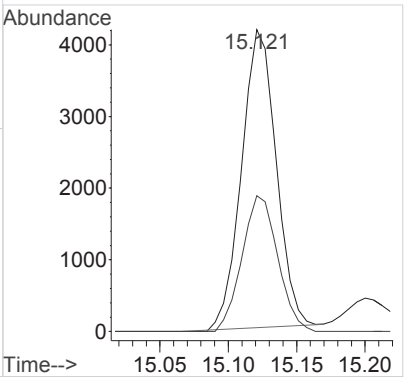


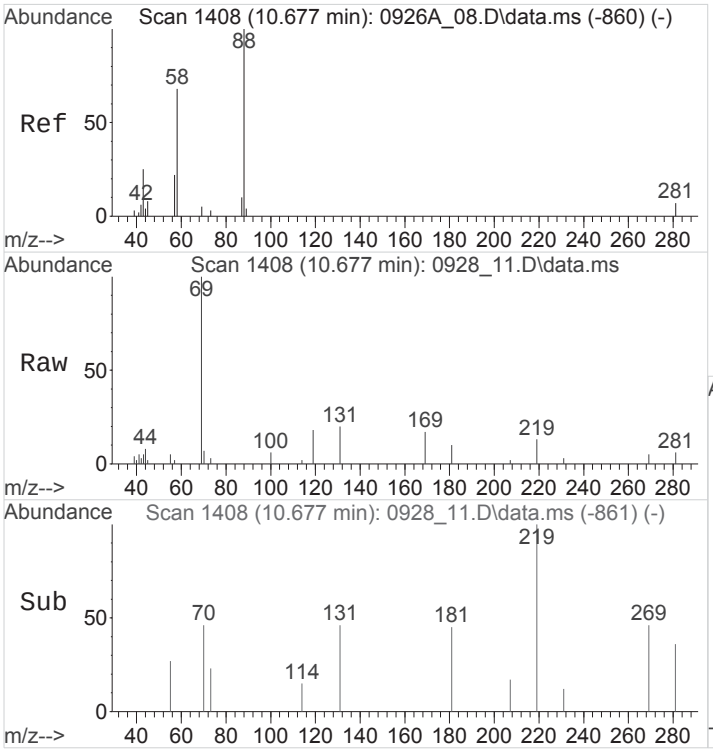


#72
1,2,4-Trimethylbenzene
Concen: 0.2126964 ppbv
RT: 15.125 min Scan# 2138
Delta R.T. 0.001 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion:105 Resp: 72821

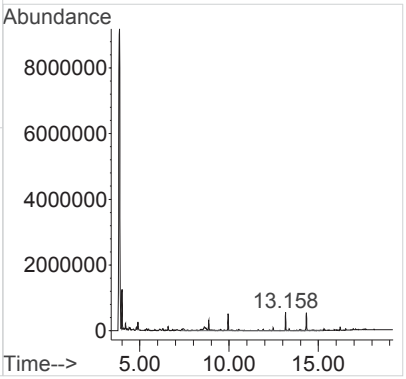
Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.5	56.3





#84
TPH (GC/MS) Low Fraction
Concen: 75.0994681 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_11.D
Acq: 28 Sep 2016 2:30 pm

Tgt Ion:TIC Resp:53632217



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_12.D
Acq On : 28 Sep 2016 3:16 pm
Operator : 564
Sample : L861822-08 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:45:12 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

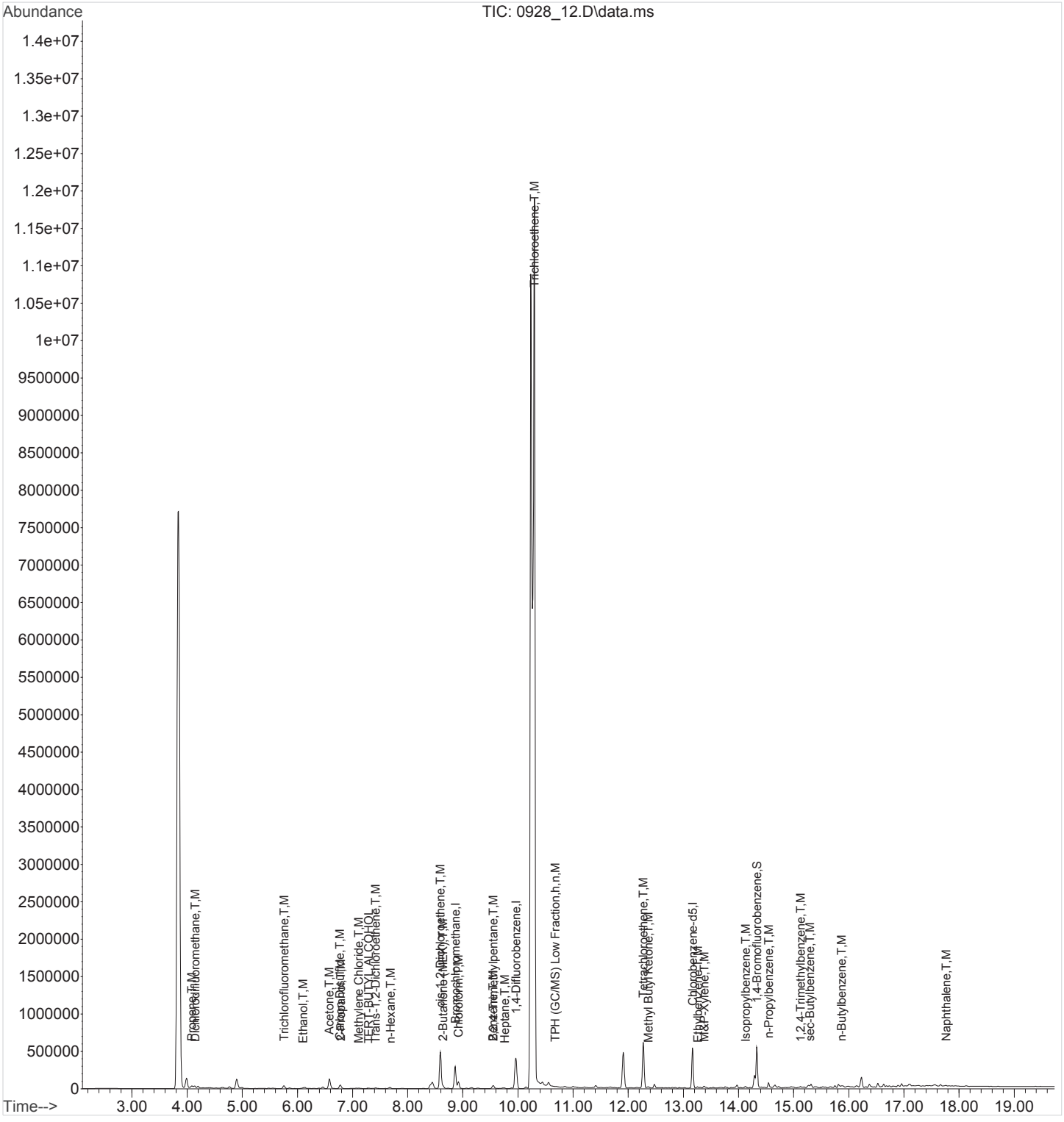
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.864	130	1129637	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.964	114	4642534	4.0000000	ppbv	0.01
58) Chlorobenzene-d5	13.168	117	3178406	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.333	95	2090677	4.2338474	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.85%			
Target Compounds						Qvalue
2) Propene	4.082	41	65022	0.6691374	ppbv	86
4) Dichlorodifluoromethane	4.147	85	67265	0.3601218	ppbv #	42
13) Trichlorofluoromethane	5.756	101	412229	2.2864989	ppbv	100
14) Ethanol	6.100	45	143820	8.8323232	ppbv	99
17) Acetone	6.581	43	2166644	7.4545441	ppbv	98
18) 2-Propanol	6.786	45	511649	2.6062304	ppbv #	74
19) Carbon Disulfide	6.770	76	466409	1.8519643	ppbv	97
21) Methylene Chloride	7.113	49	52811	0.4423120	ppbv #	96
22) TERT-BUTYL ALCOHOL	7.290	59	133087	0.6109520	ppbv #	56
24) Trans-1,2-Dichloroethene	7.422	96	55350	0.6426015	ppbv #	1
25) n-Hexane	7.688	57	61974	0.4033909	ppbv #	1
29) 2-Butanone (MEK)	8.641	72	157326	3.4950560	ppbv #	87
30) cis-1,2-Dichloroethene	8.594	61	3525292	22.3557351	ppbv #	82
32) Chloroform	8.923	83	790819	4.6137118	ppbv	100
36) 2,2,4-Trimethylpentane	9.554	57	180841	0.3522415	ppbv #	93
38) Benzene	9.551	78	303705	1.0036881	ppbv #	91
40) Heptane	9.756	43	95859	0.4587594	ppbv #	60
41) Trichloroethene	10.299	95	91379593m	775.2623624	ppbv	
49) 4-Methyl-2-Pentanone (...	11.441	43	32065	0.1185261	ppbv #	46
53) Tetrachloroethene	12.276	166	2233655	14.6660013	ppbv	96
54) Methyl Butyl Ketone	12.365	43	136172	0.6592375	ppbv #	92
59) Ethylbenzene	13.261	91	80936	0.2114161	ppbv #	44
60) M&P-Xylene	13.374	91	104031	0.3595751	ppbv	98
64) Isopropylbenzene	14.127	105	120069	0.2965485	ppbv #	89
66) n-Propylbenzene	14.546	91	592034	1.2322048	ppbv	99
72) 1,2,4-Trimethylbenzene	15.124	105	48041	0.1472533	ppbv	95
73) sec-Butylbenzene	15.294	105	89052	0.1763749	ppbv #	12
79) n-Butylbenzene	15.873	91	95506	0.2572166	ppbv #	81
83) Naphthalene	17.764	128	70801	0.4068478	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	631094304m	927.3792440	ppbv	

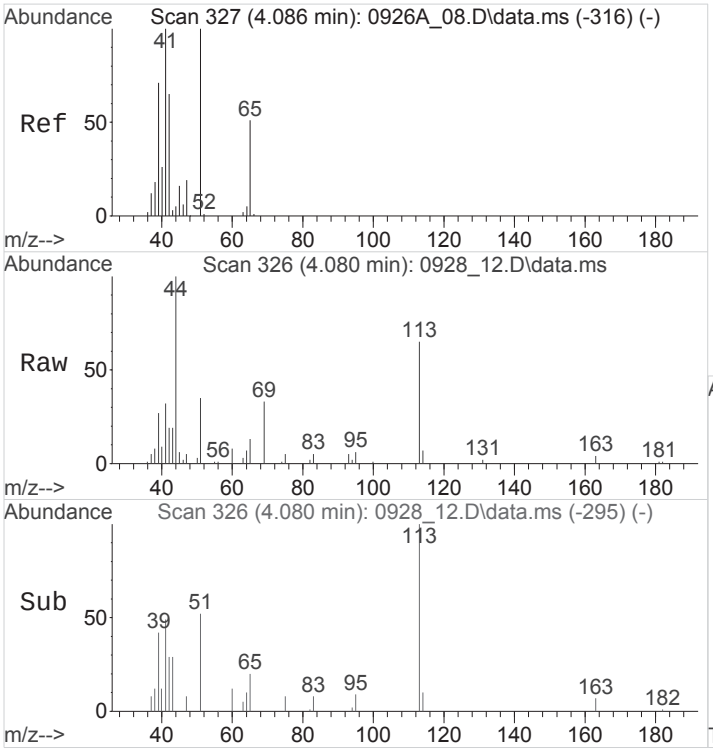
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_12.D
Acq On : 28 Sep 2016 3:16 pm
Operator : 564
Sample : L861822-08 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:45:12 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

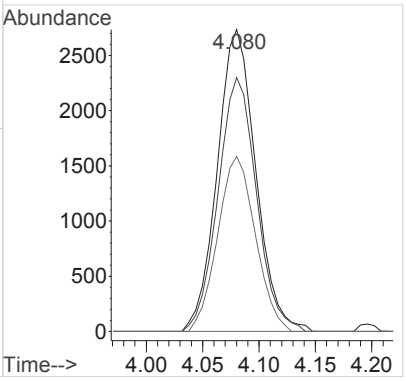


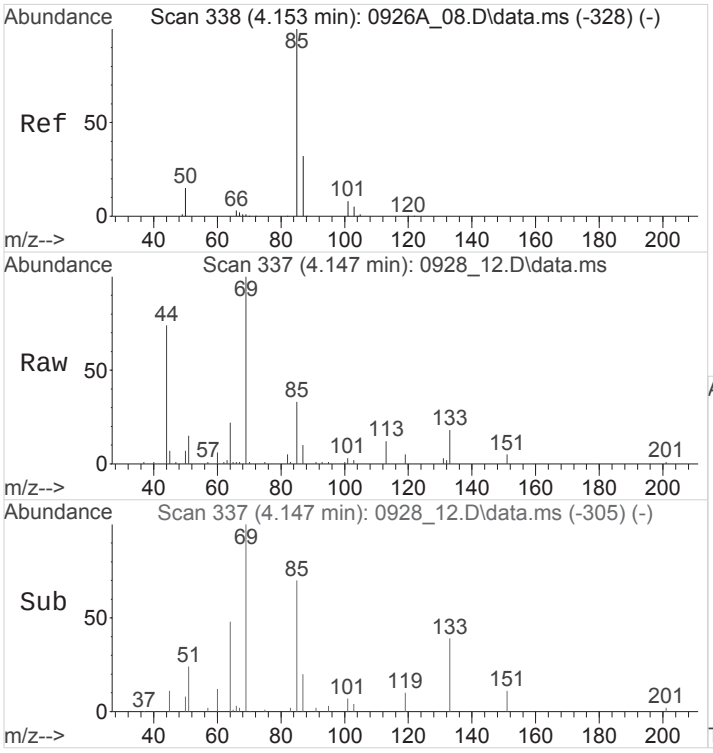


#2
Propene
Concen: 0.6691374 ppbv
RT: 4.082 min Scan# 326
Delta R.T. -0.007 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 41 Resp: 65022

Ion	Ratio	Lower	Upper
41	100		
39	84.0	56.5	84.7
42	56.7	52.2	78.4

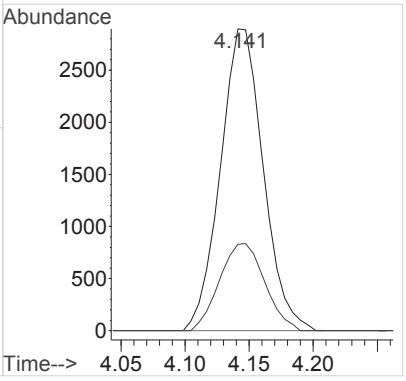


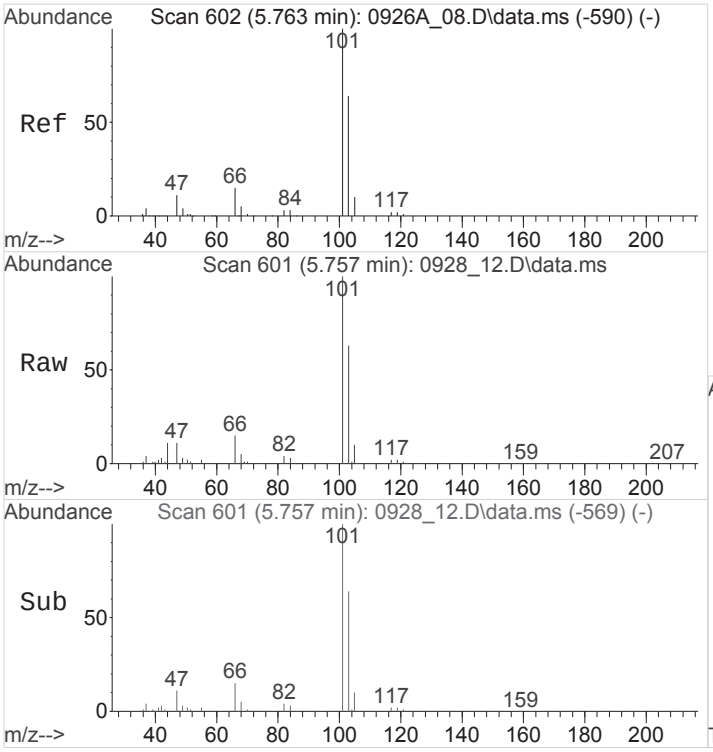


#4
Dichlorodifluoromethane
Concen: 0.3601218 ppbv
RT: 4.147 min Scan# 337
Delta R.T. -0.006 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 85 Resp: 67265

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

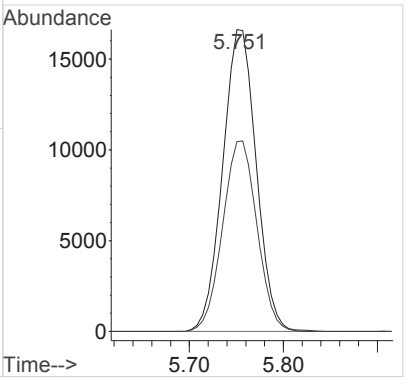


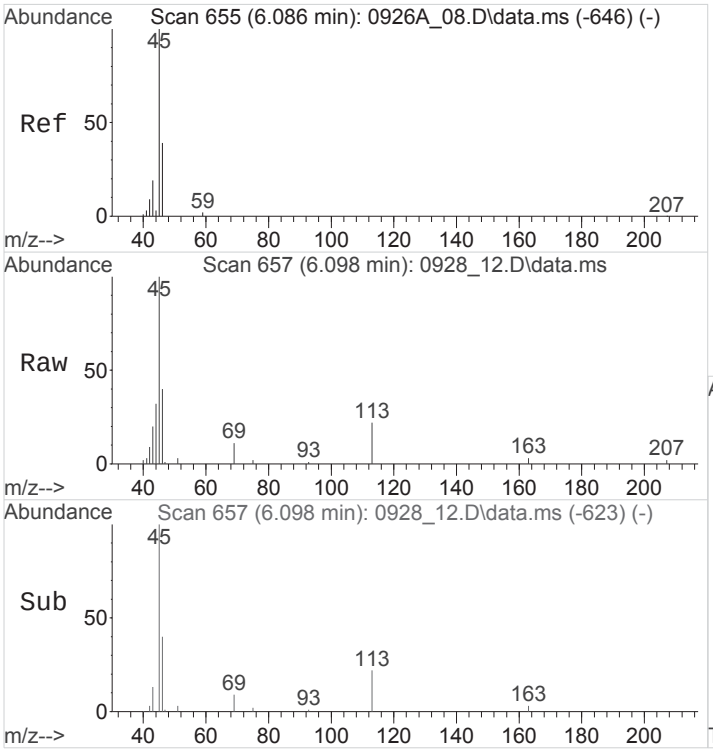


#13
Trichlorofluoromethane
Concen: 2.2864989 ppbv
RT: 5.756 min Scan# 601
Delta R.T. -0.005 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:101 Resp: 412229

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.7	77.5

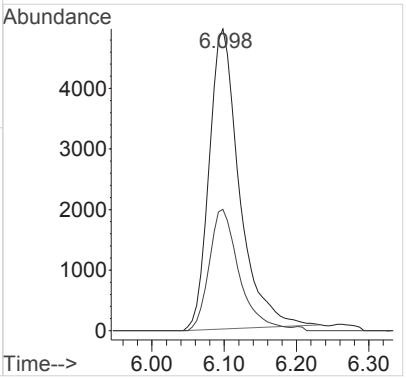


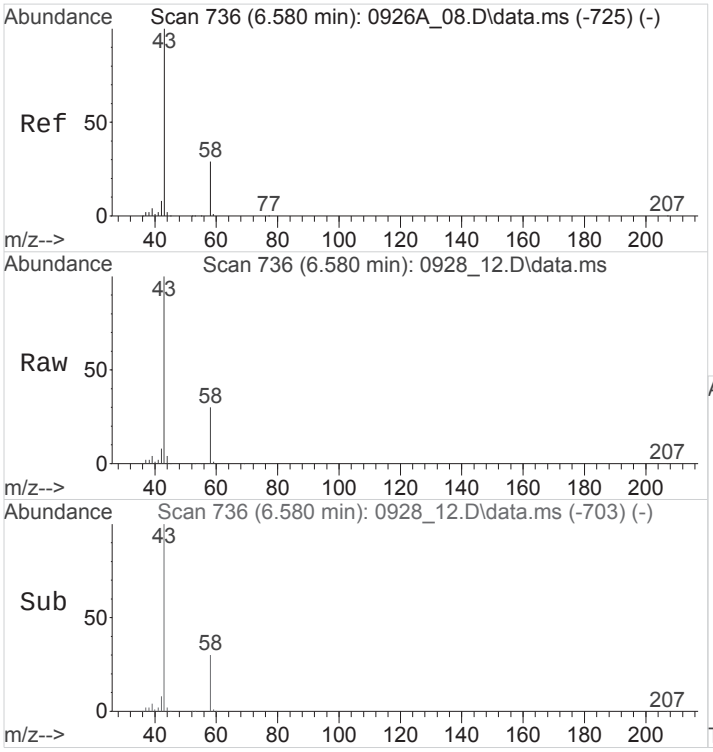


#14
Ethanol
Concen: 8.8323232 ppbv
RT: 6.100 min Scan# 657
Delta R.T. 0.012 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 45 Resp: 143820

Ion	Ratio	Lower	Upper
45	100		
46	40.8	33.0	49.4

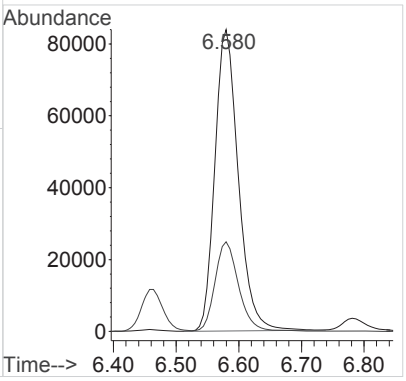


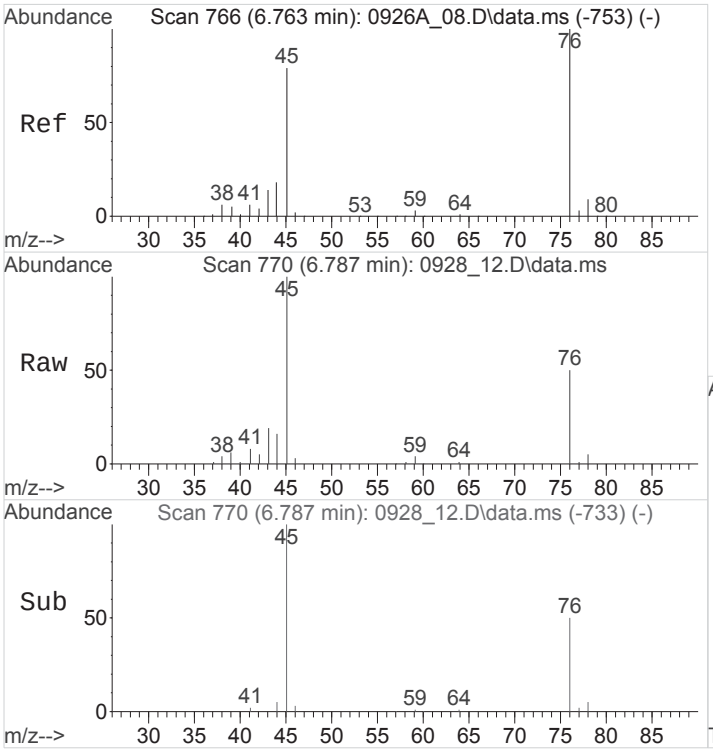


#17
Acetone
Concen: 7.4545441 ppbv
RT: 6.581 min Scan# 736
Delta R.T. 0.003 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 2166644

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.1	34.7

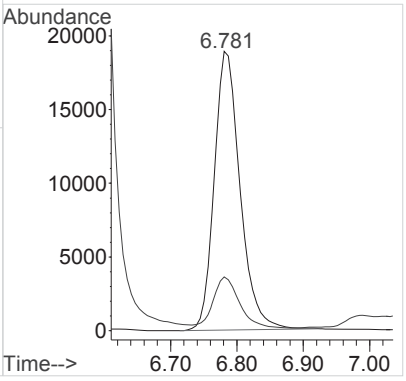


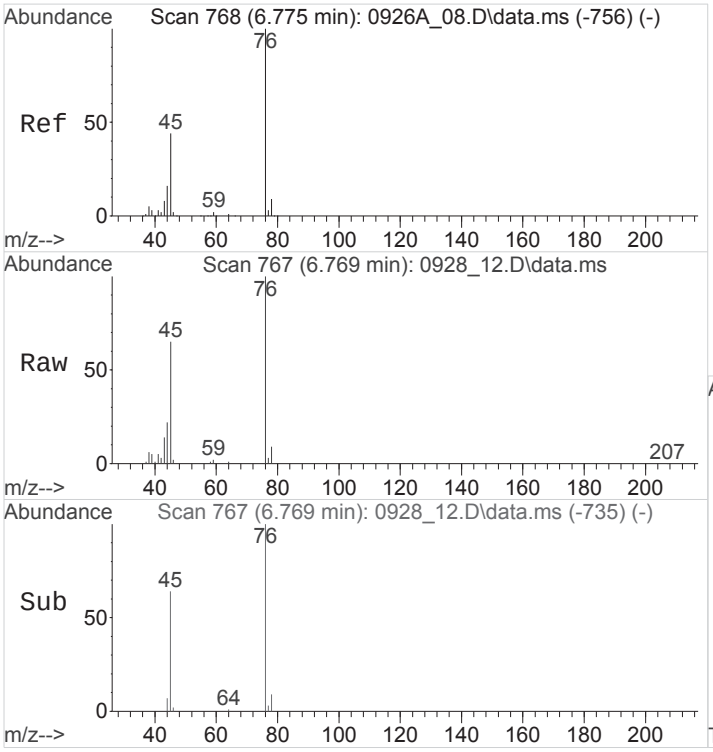


#18
2-Propanol
Concen: 2.6062304 ppbv
RT: 6.786 min Scan# 770
Delta R.T. 0.025 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 45 Resp: 511649

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

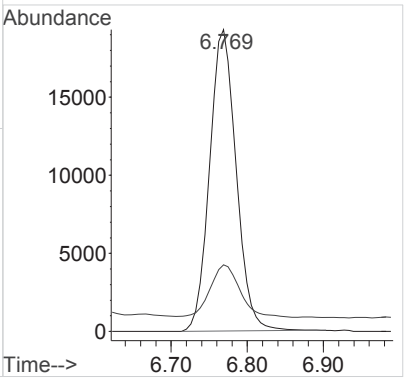


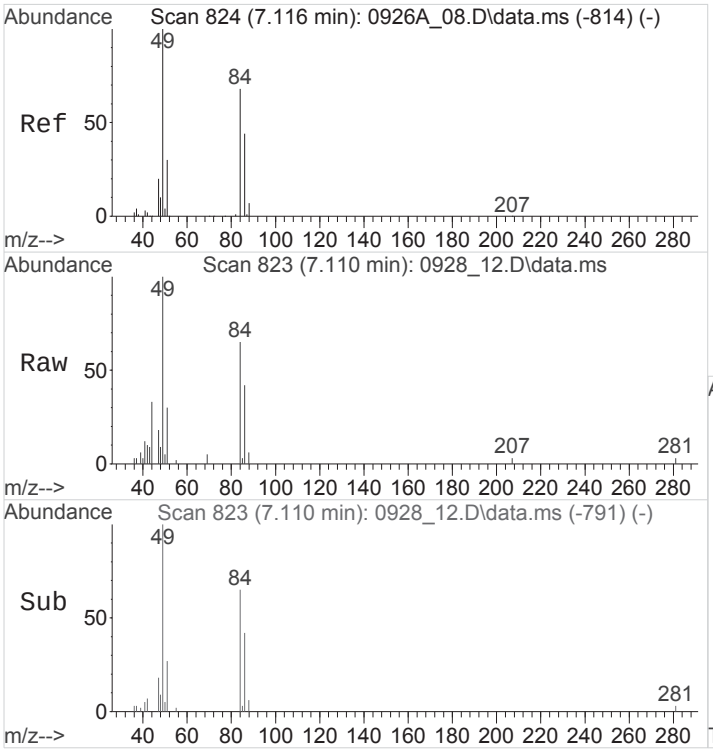


#19
Carbon Disulfide
Concen: 1.8519643 ppbv
RT: 6.770 min Scan# 767
Delta R.T. -0.006 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 76 Resp: 466409

Ion	Ratio	Lower	Upper
76	100		
44	19.0	14.2	21.2

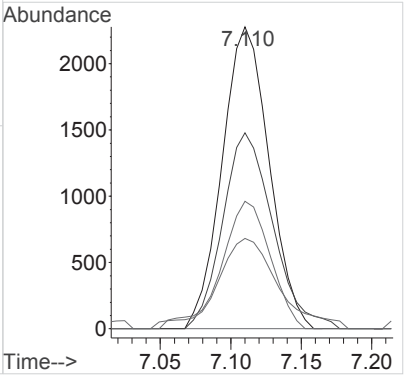


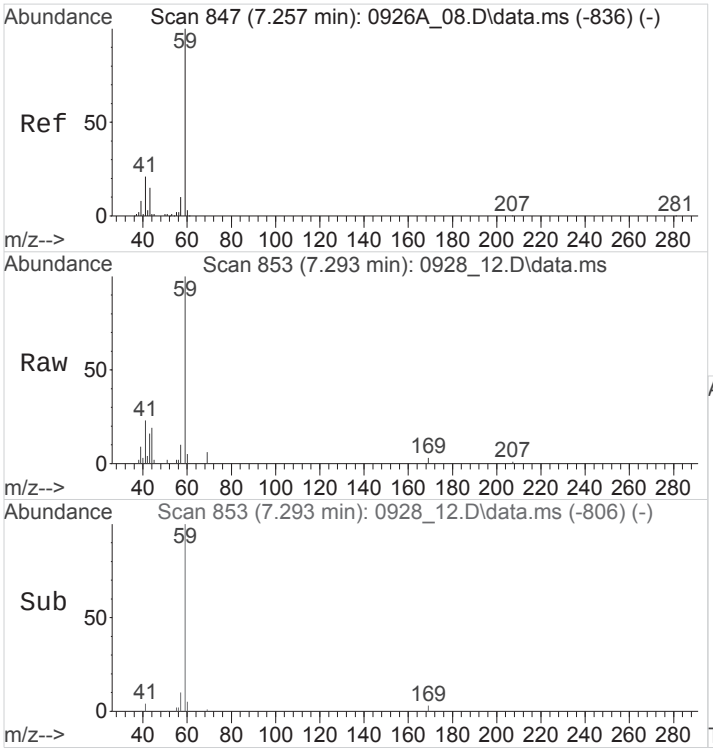


#21
Methylene Chloride
Concen: 0.4423120 ppbv
RT: 7.113 min Scan# 823
Delta R.T. -0.004 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 49 Resp: 52811

Ion	Ratio	Lower	Upper
49	100		
84	69.2	54.2	81.2
86	44.1	35.1	52.7
51	39.0	24.5	36.7#

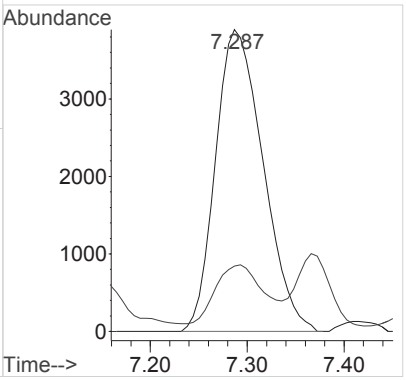


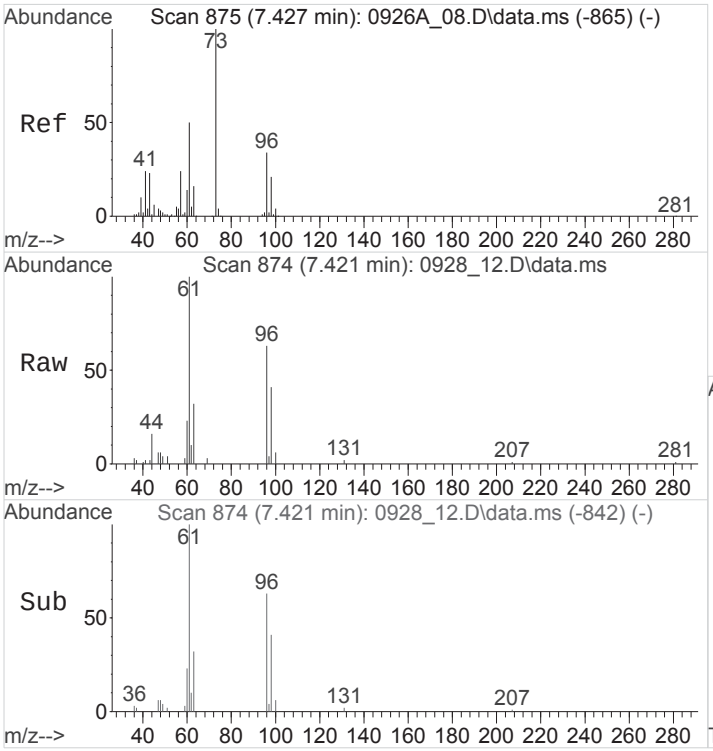


#22
TERT-BUTYL ALCOHOL
Concen: 0.6109520 ppbv
RT: 7.290 min Scan# 853
Delta R.T. 0.035 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 59 Resp: 133087

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

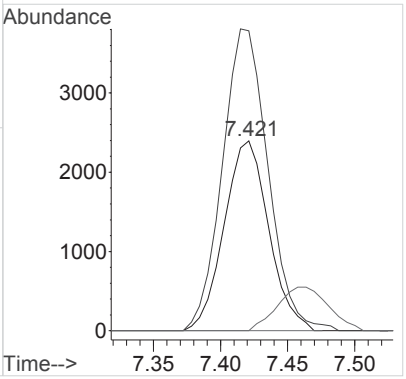


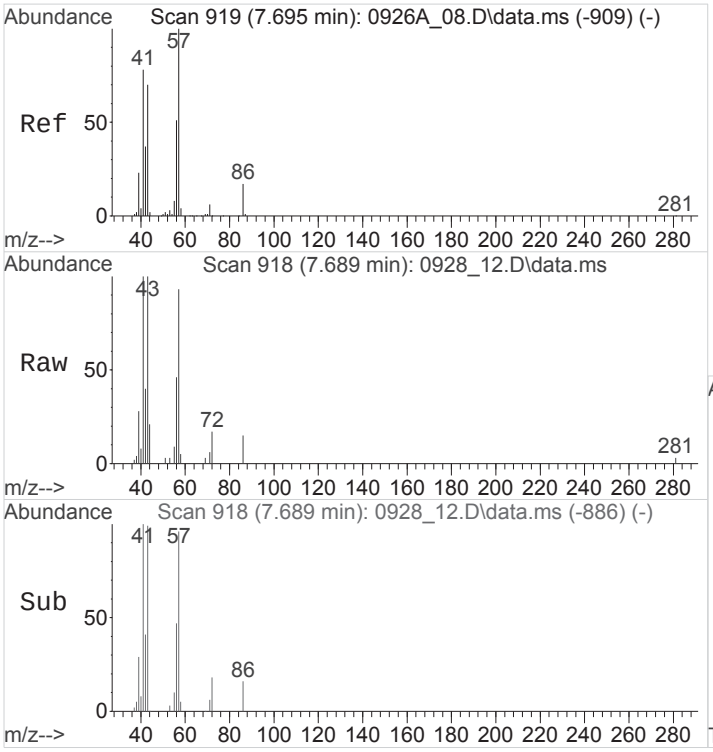


#24
Trans-1,2-Dichloroethene
Concen: 0.6426015 ppbv
RT: 7.422 min Scan# 874
Delta R.T. -0.003 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 96 Resp: 55350

Ion	Ratio	Lower	Upper
96	100		
61	162.8	121.0	181.4
73	0.0	244.6	366.8#

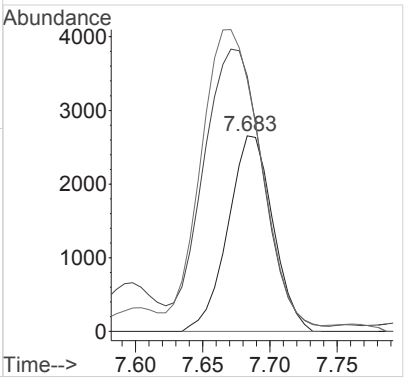


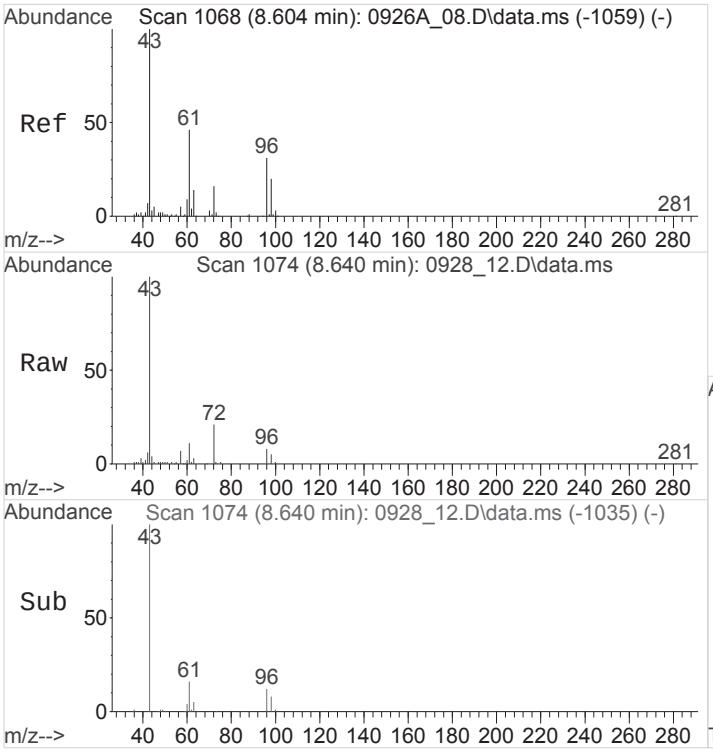


#25
n-Hexane
Concen: 0.4033909 ppbv
RT: 7.688 min Scan# 918
Delta R.T. -0.004 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 57 Resp: 61974

Ion	Ratio	Lower	Upper
57	100		
41	186.3	63.2	94.8#
43	217.7	56.0	84.0#

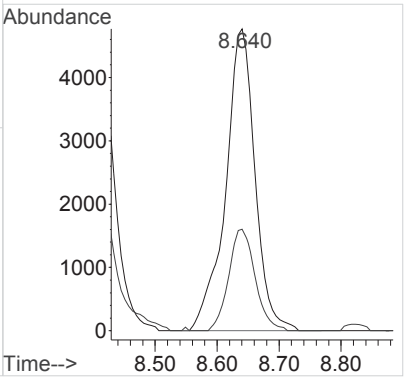


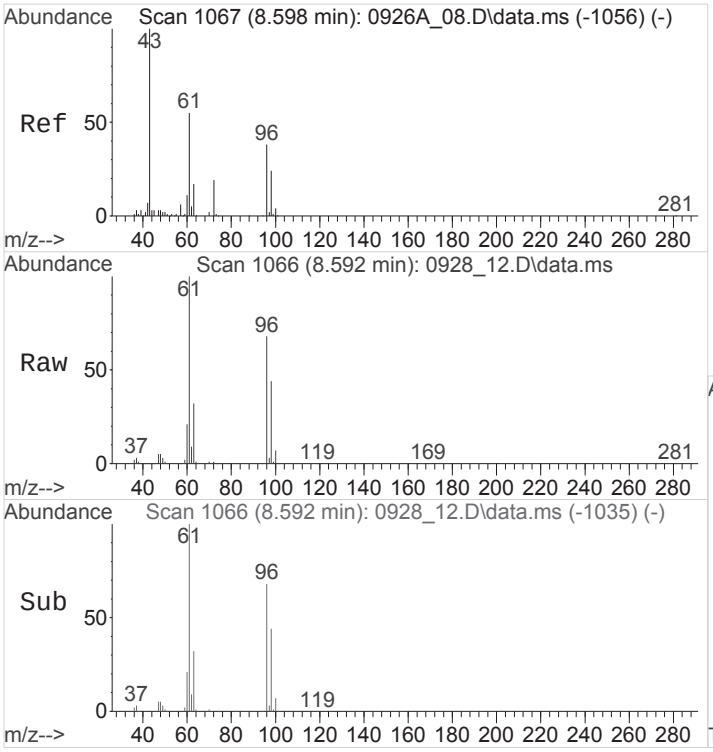


#29
2-Butanone (MEK)
Concen: 3.4950560 ppbv
RT: 8.641 min Scan# 1074
Delta R.T. 0.040 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 72 Resp: 157326

Ion	Ratio	Lower	Upper
72	100		
57	25.0	25.6	38.4#

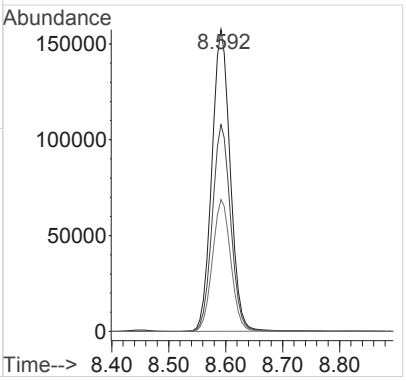


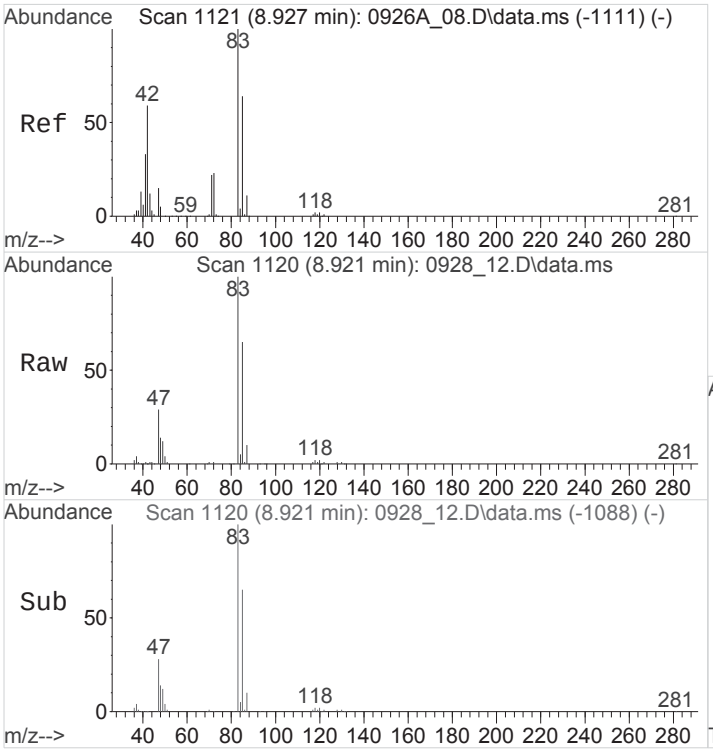


#30
cis-1,2-Dichloroethene
Concen: 22.3557351 ppbv
RT: 8.594 min Scan# 1066
Delta R.T. -0.007 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 61 Resp: 3525292

Ion	Ratio	Lower	Upper
61	100		
96	68.2	43.5	65.3#
98	43.5	27.8	41.8#

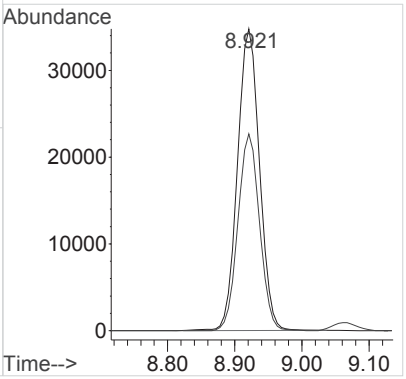


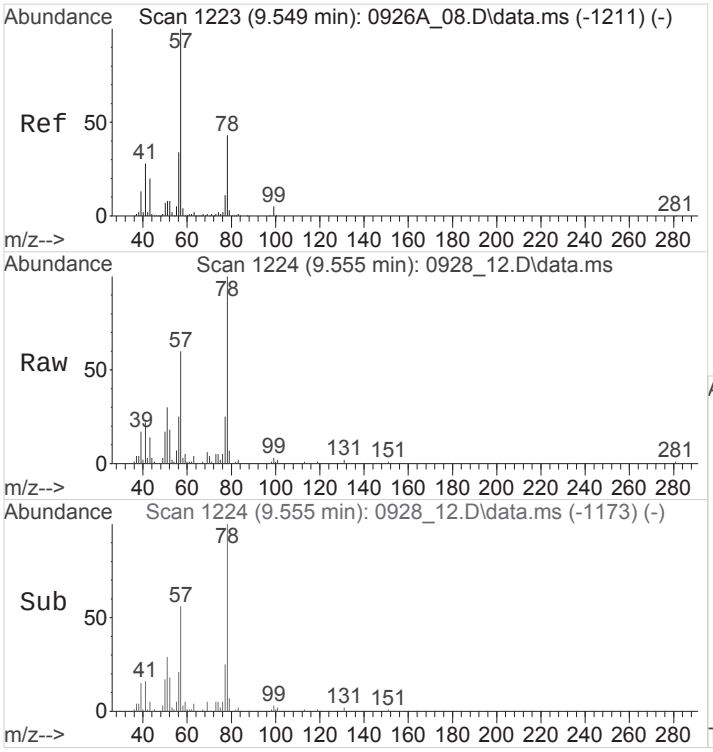


#32
Chloroform
Concen: 4.6137118 ppbv
RT: 8.923 min Scan# 1120
Delta R.T. -0.004 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 83 Resp: 790819

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.0	76.6

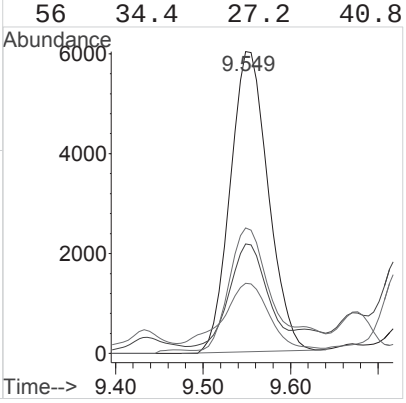


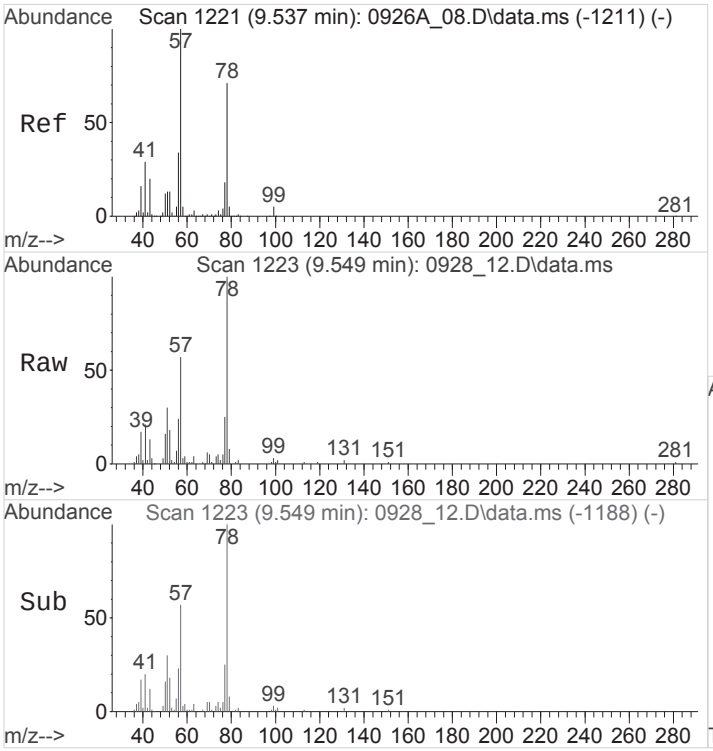


#36
2,2,4-Trimethylpentane
Concen: 0.3522415 ppbv
RT: 9.554 min Scan# 1224
Delta R.T. 0.007 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 57 Resp: 180841

Ion	Ratio	Lower	Upper
57	100		
41	37.1	22.7	34.1#
43	23.5	16.6	25.0
56	34.4	27.2	40.8

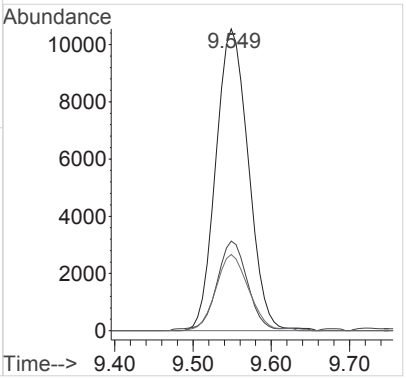


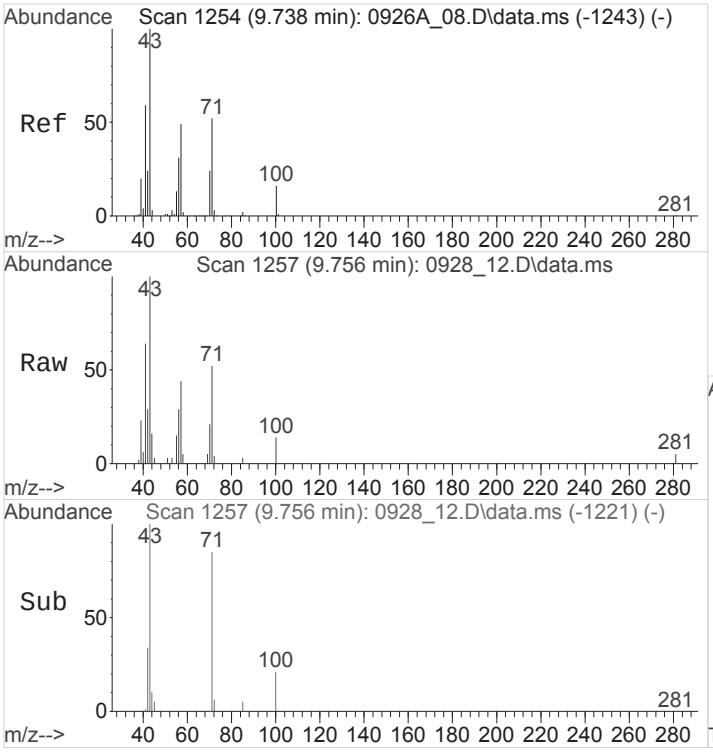


#38
Benzene
Concen: 1.0036881 ppbv
RT: 9.551 min Scan# 1223
Delta R.T. 0.013 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 78 Resp: 303705

Ion	Ratio	Lower	Upper
78	100		
51	27.2	15.4	23.0#
77	25.7	19.9	29.9

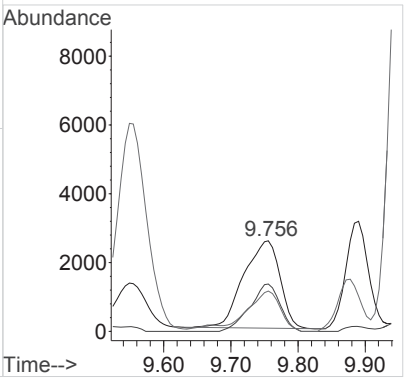


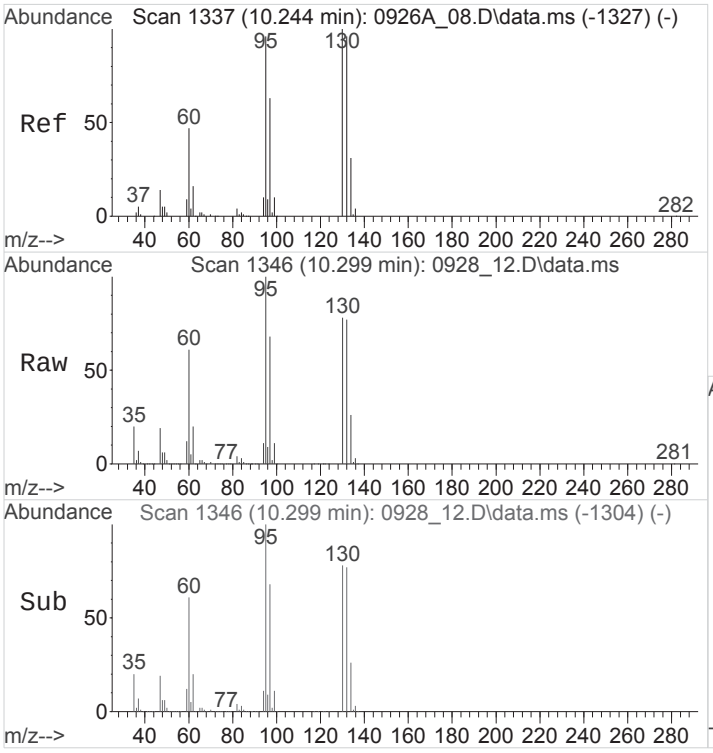


#40
Heptane
Concen: 0.4587594 ppbv
RT: 9.756 min Scan# 1257
Delta R.T. 0.019 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 95859

Ion	Ratio	Lower	Upper
43	100		
71	44.9	41.4	62.0
57	0.0	39.3	58.9#

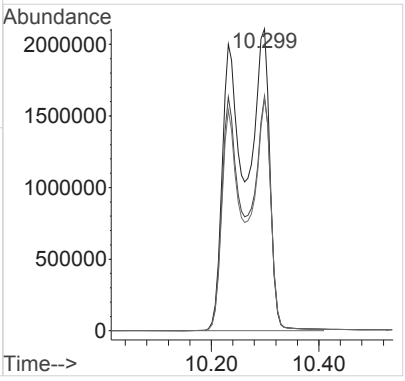


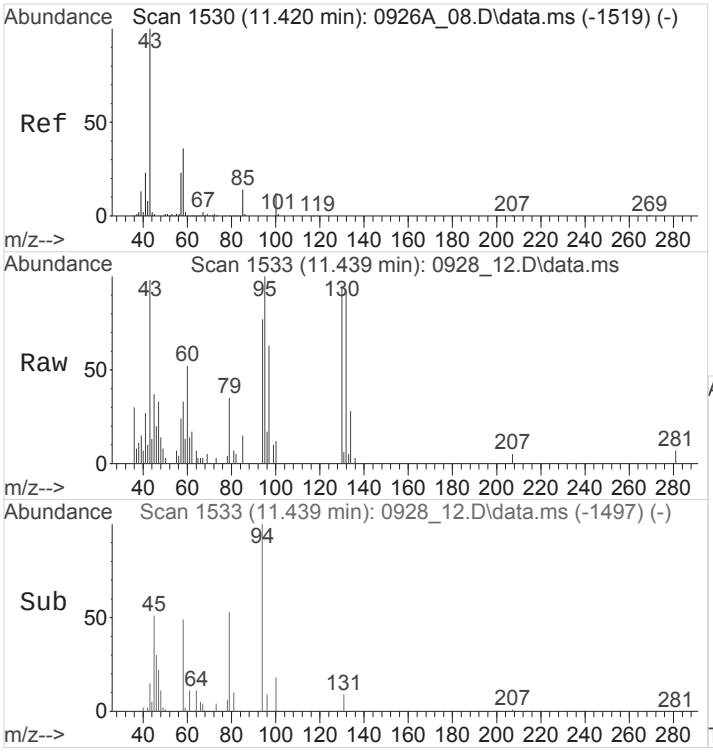


#41
Trichloroethene
Concen: 775.2623624 ppbv m
RT: 10.299 min Scan# 1346
Delta R.T. 0.057 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 95 Resp:91379593

Ion	Ratio	Lower	Upper
95	100		
130	38.5	81.6	122.4#
132	36.1	77.8	116.6#

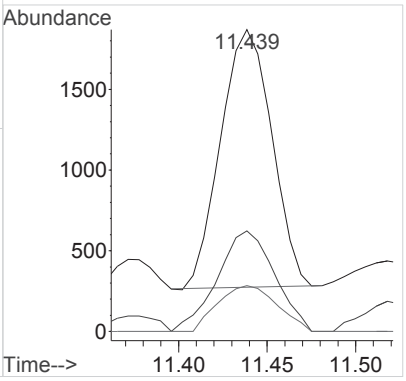


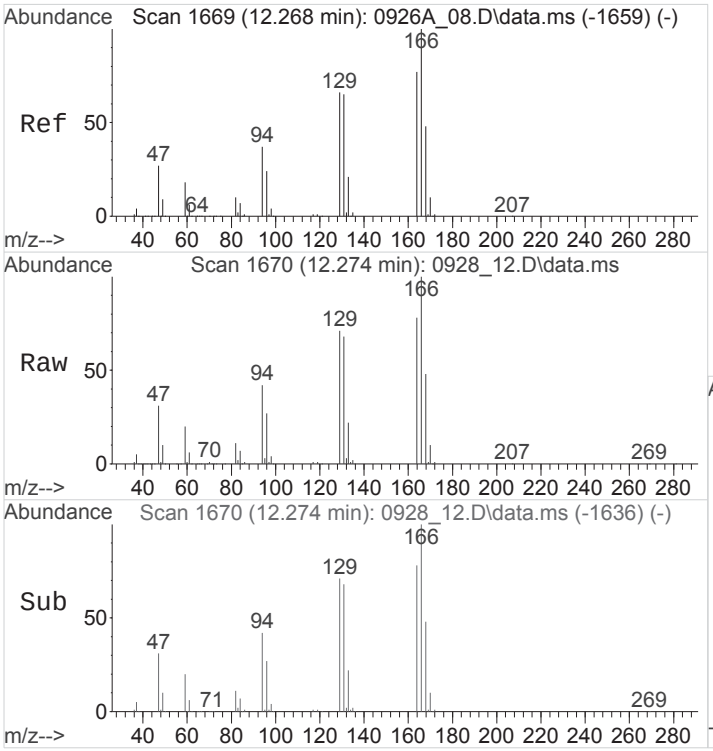


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1185261 ppbv
RT: 11.441 min Scan# 1533
Delta R.T. 0.019 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 32065

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.6#
85	0.0	11.0	16.6#

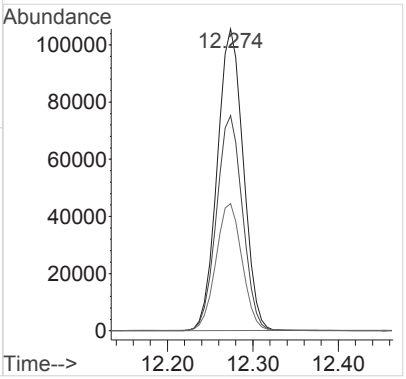


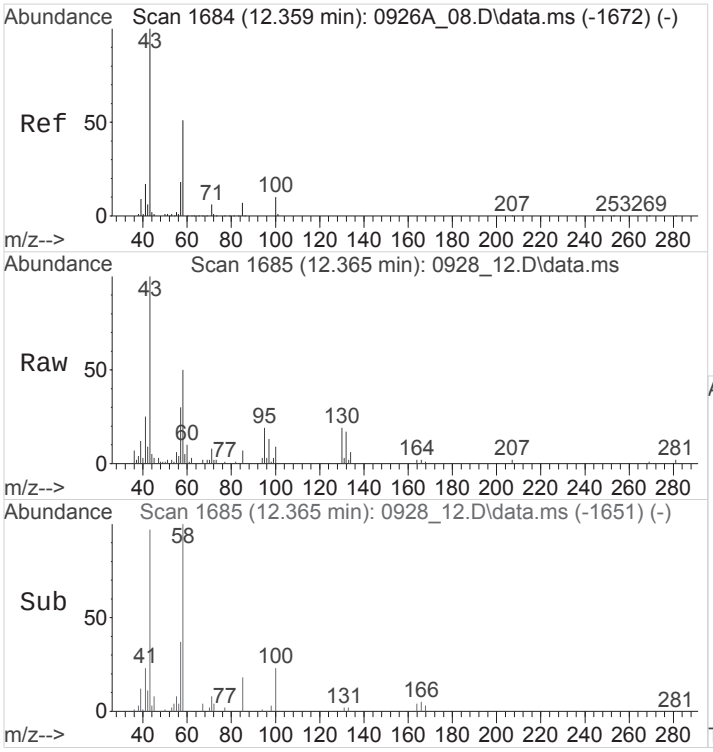


#53
Tetrachloroethene
Concen: 14.6660013 ppbv
RT: 12.276 min Scan# 1670
Delta R.T. 0.010 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:166 Resp: 2233655

Ion	Ratio	Lower	Upper
166	100		
129	71.1	55.0	82.6
94	42.4	31.3	46.9

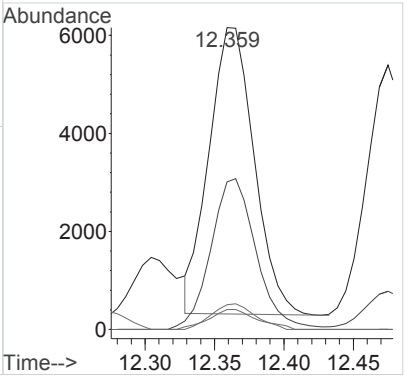


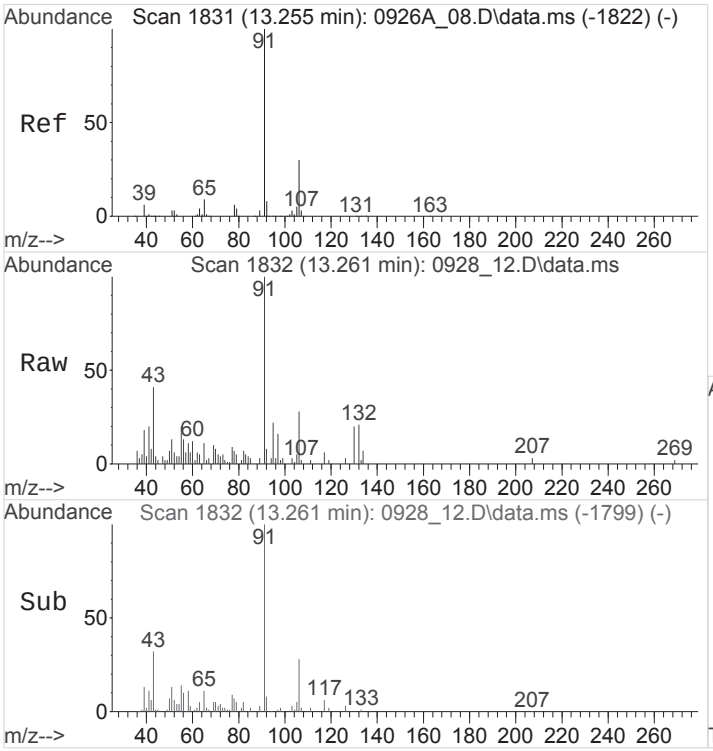


#54
Methyl Butyl Ketone
Concen: 0.6592375 ppbv
RT: 12.365 min Scan# 1685
Delta R.T. 0.007 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 43 Resp: 136172

Ion	Ratio	Lower	Upper
43	100		
58	49.4	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

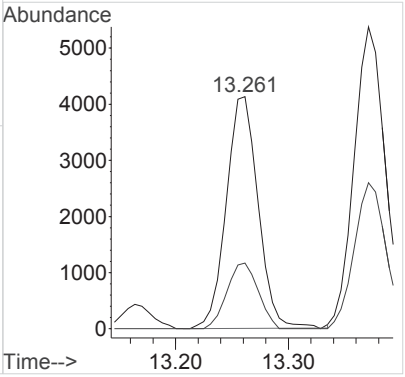


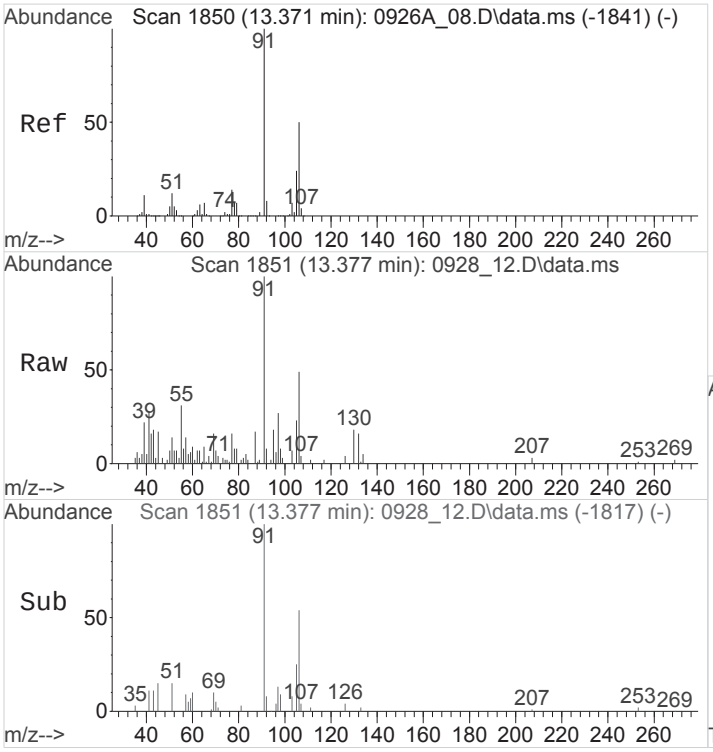


#59
Ethylbenzene
Concen: 0.2114161 ppbv
RT: 13.261 min Scan# 1832
Delta R.T. 0.004 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 91 Resp: 80936

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

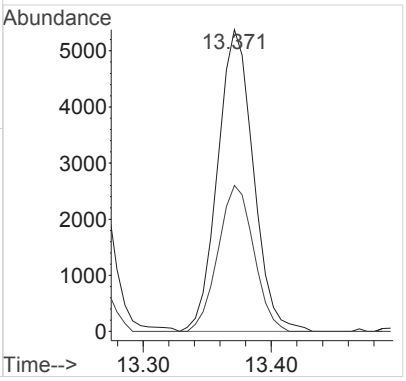


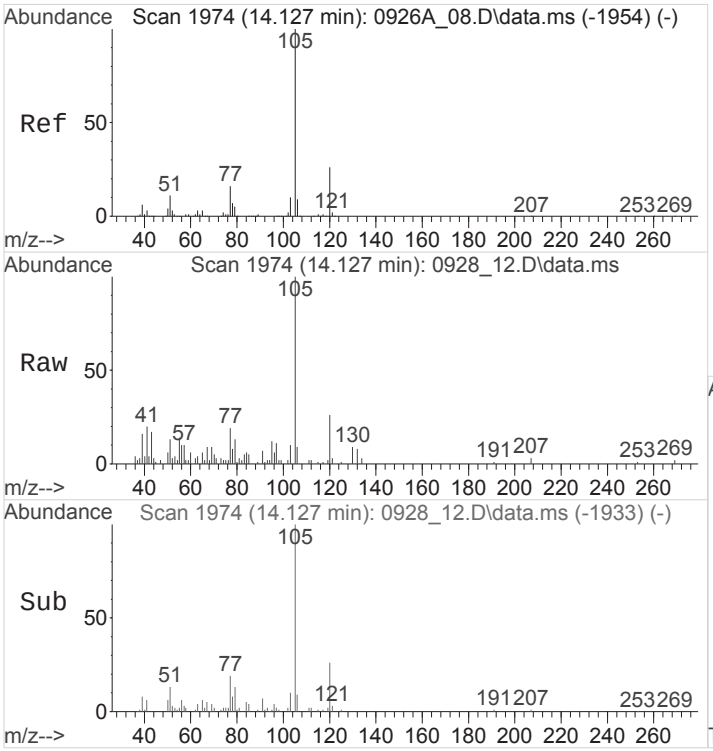


#60
M&P-Xylene
Concen: 0.3595751 ppbv
RT: 13.374 min Scan# 1851
Delta R.T. 0.003 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 91 Resp: 104031

Ion	Ratio	Lower	Upper
91	100		
106	48.4	39.8	59.6

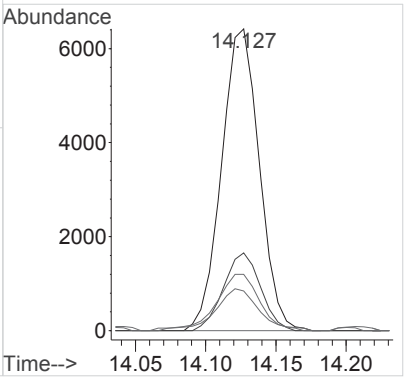


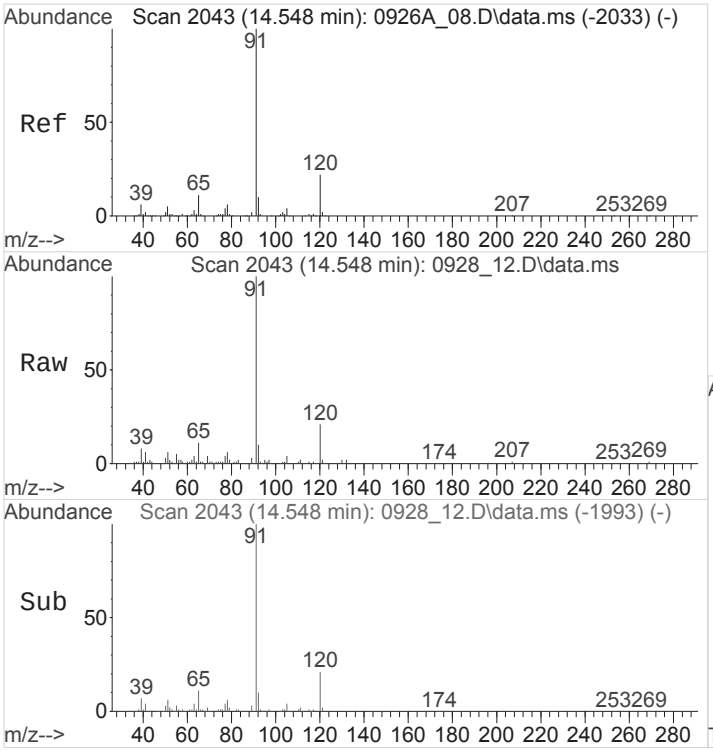


#64
Isopropylbenzene
Concen: 0.2965485 ppbv
RT: 14.127 min Scan# 1974
Delta R.T. 0.001 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:105 Resp: 120069

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.7	31.1
77	21.3	13.0	19.4#
51	0.0	9.4	14.0#

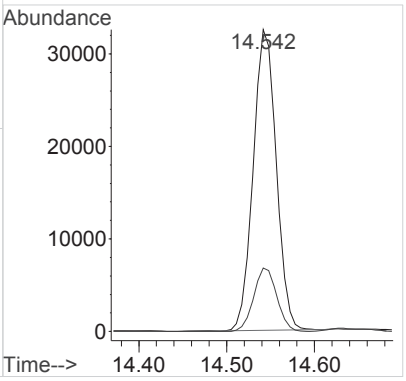


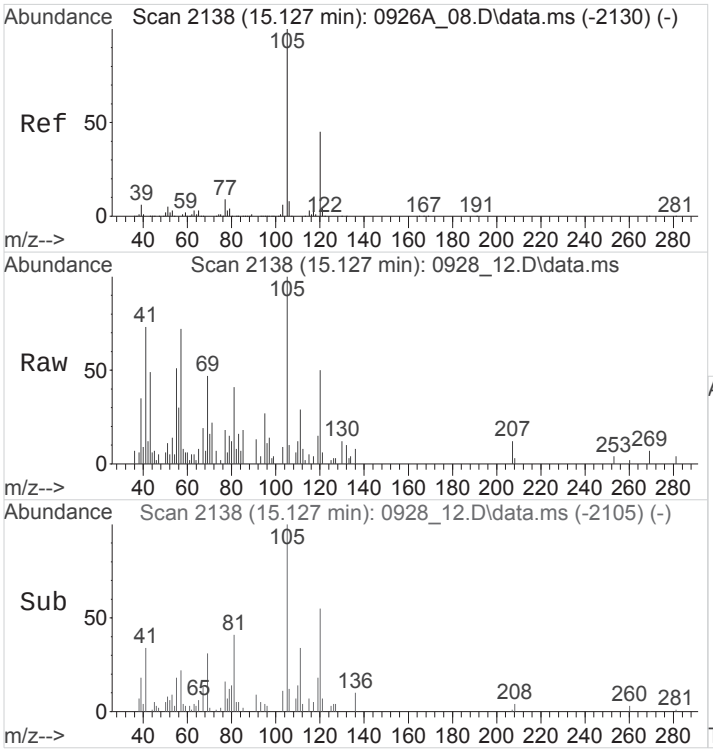


#66
n-Propylbenzene
Concen: 1.2322048 ppbv
RT: 14.546 min Scan# 2043
Delta R.T. 0.001 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 91 Resp: 592034

Ion	Ratio	Lower	Upper
91	100		
120	21.1	17.1	25.7

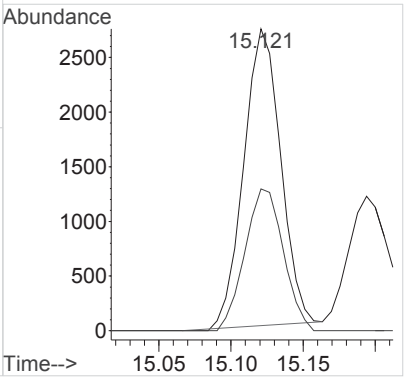


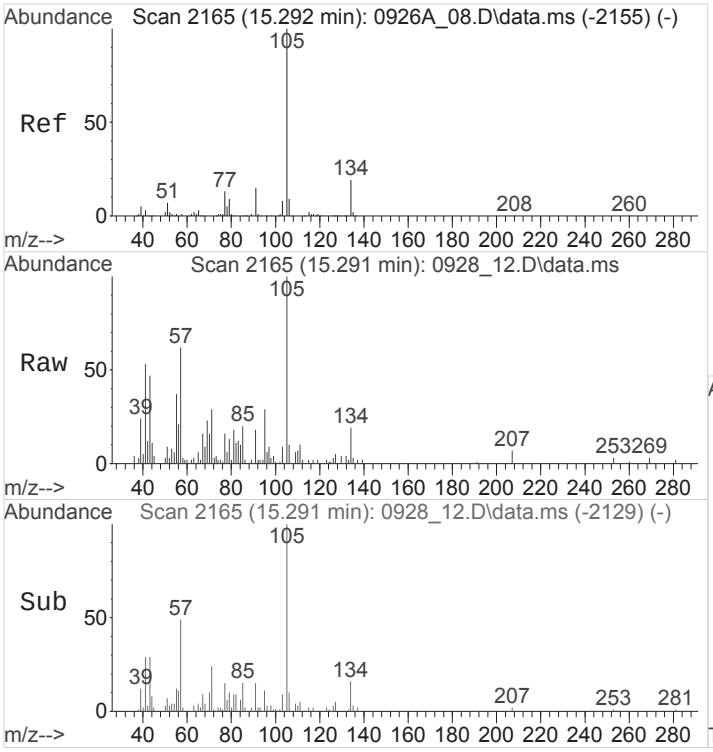


#72
1,2,4-Trimethylbenzene
Concen: 0.1472533 ppbv
RT: 15.124 min Scan# 2138
Delta R.T. 0.000 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:105 Resp: 48041

Ion	Ratio	Lower	Upper
105	100		
120	50.0	37.5	56.3

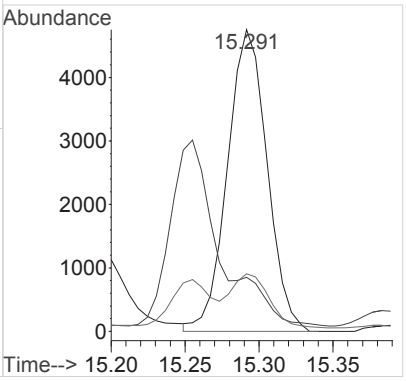


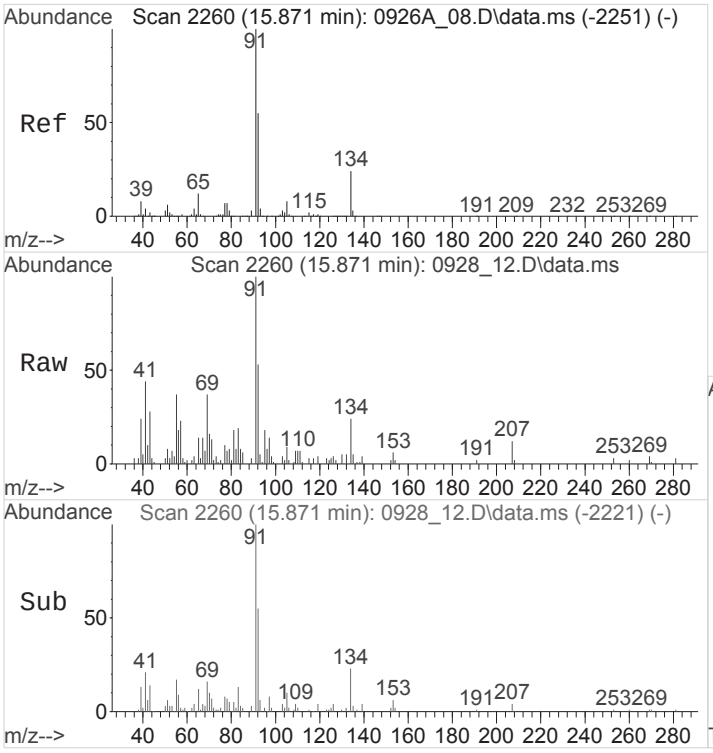


#73
sec-Butylbenzene
Concen: 0.1763749 ppbv
RT: 15.294 min Scan# 2165
Delta R.T. -0.000 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:105 Resp: 89052

Ion	Ratio	Lower	Upper
105	100		
91	75.5	12.2	18.2#
134	0.0	15.1	22.7#

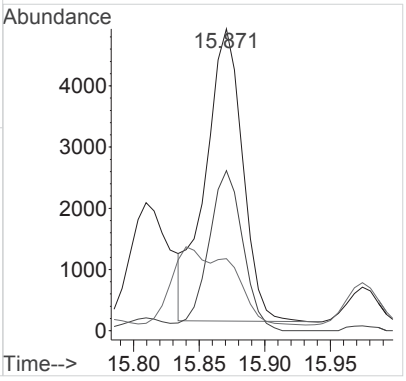


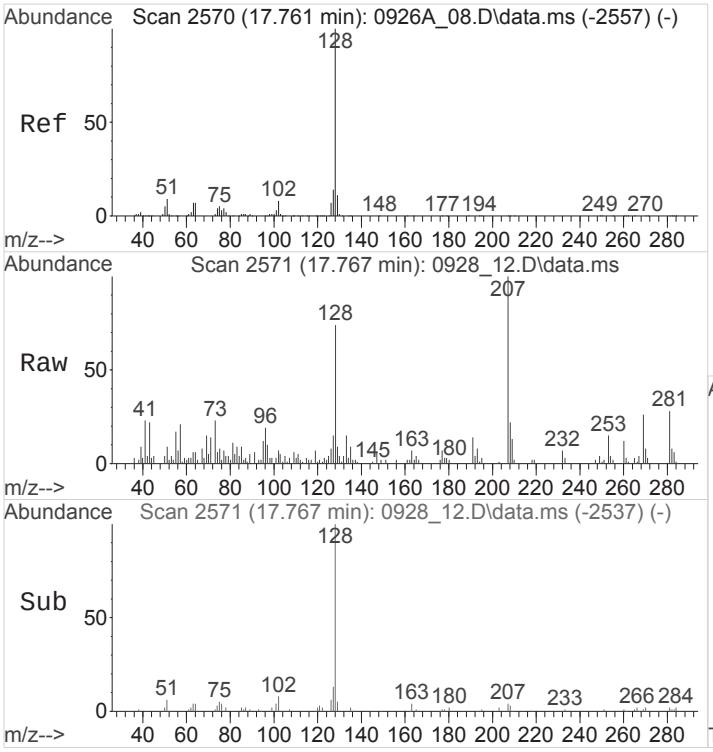


#79
n-Butylbenzene
Concen: 0.2572166 ppbv
RT: 15.873 min Scan# 2260
Delta R.T. -0.000 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion: 91 Resp: 95506

Ion	Ratio	Lower	Upper
91	100		
92	50.1	43.8	65.8
134	0.0	19.4	29.0#

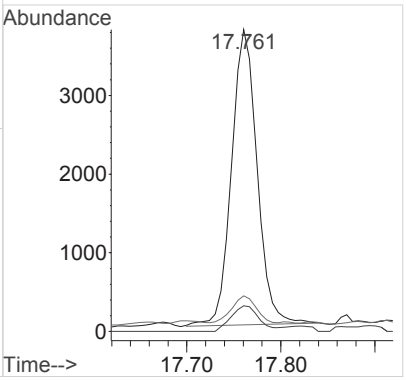


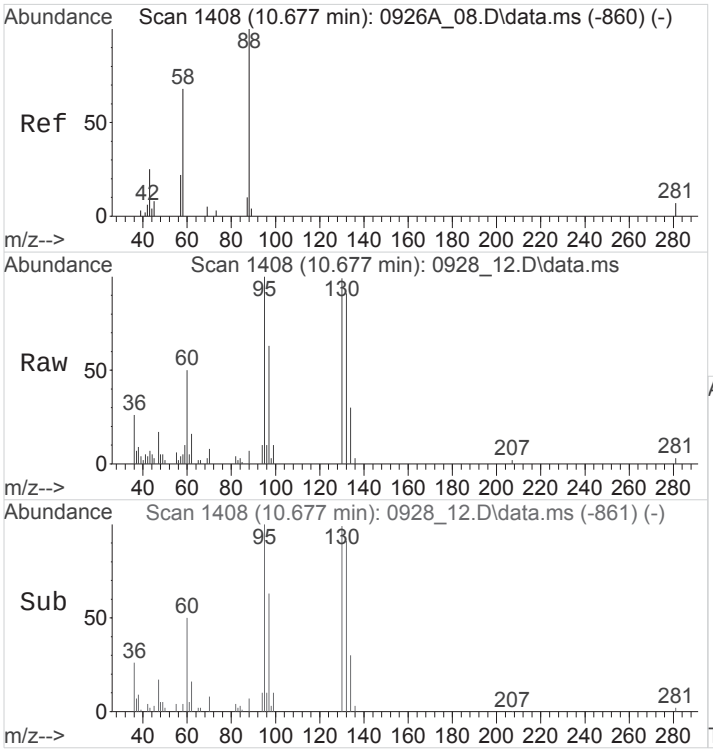


#83
Naphthalene
Concen: 0.4068478 ppbv
RT: 17.764 min Scan# 2571
Delta R.T. 0.004 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

Tgt Ion:128 Resp: 70801

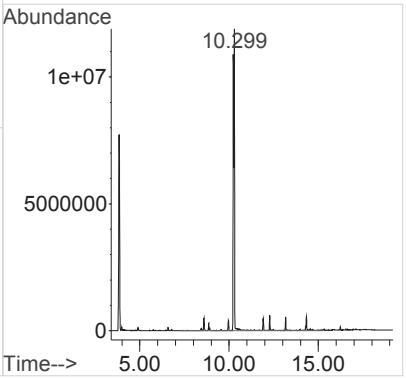
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 927.3792440 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_12.D
Acq: 28 Sep 2016 3:16 pm

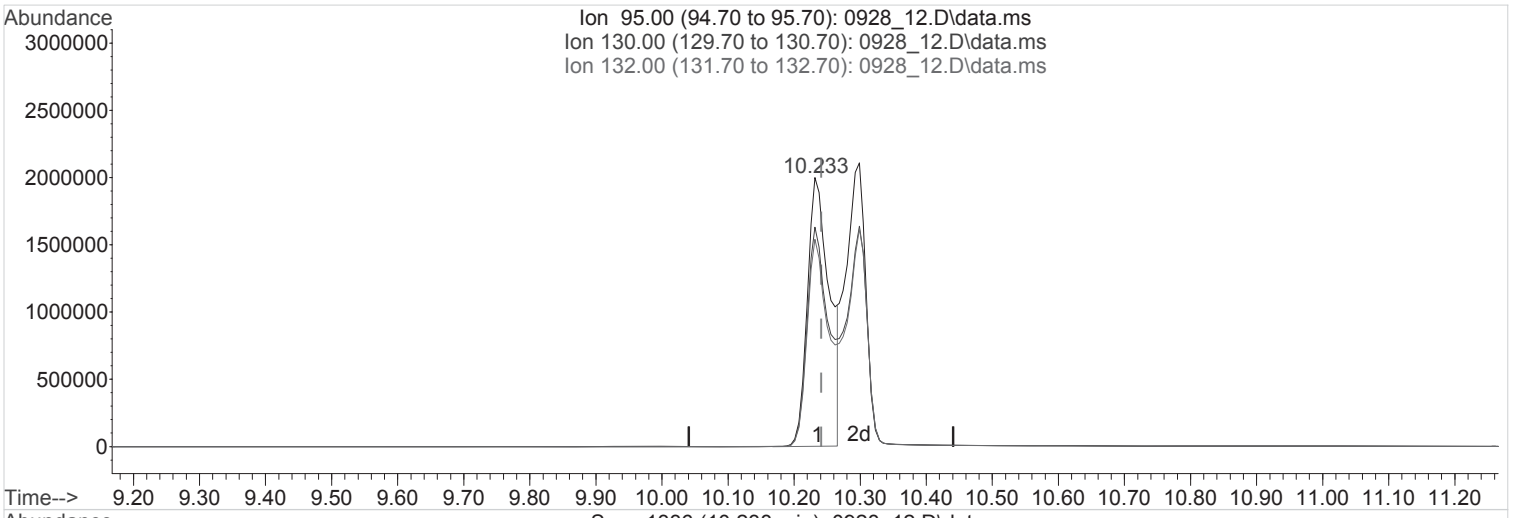
Tgt Ion:TIC Resp:631094304

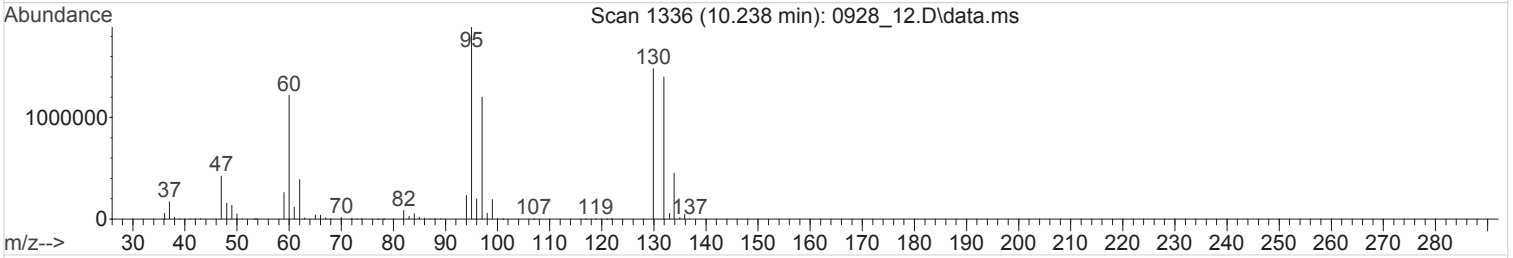


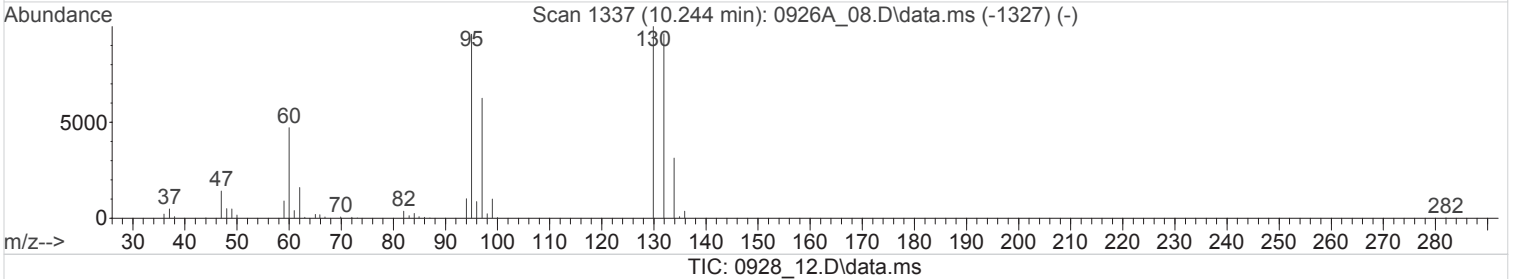
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_12.D
Acq On : 28 Sep 2016 3:16 pm
Operator : 564
Sample : L861822-08 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 16:43:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_12.D\data.ms

(41) Trichloroethene (T,M)

10.236min (-0.006) 183.3603858 ppbv E

Qvalue = 79

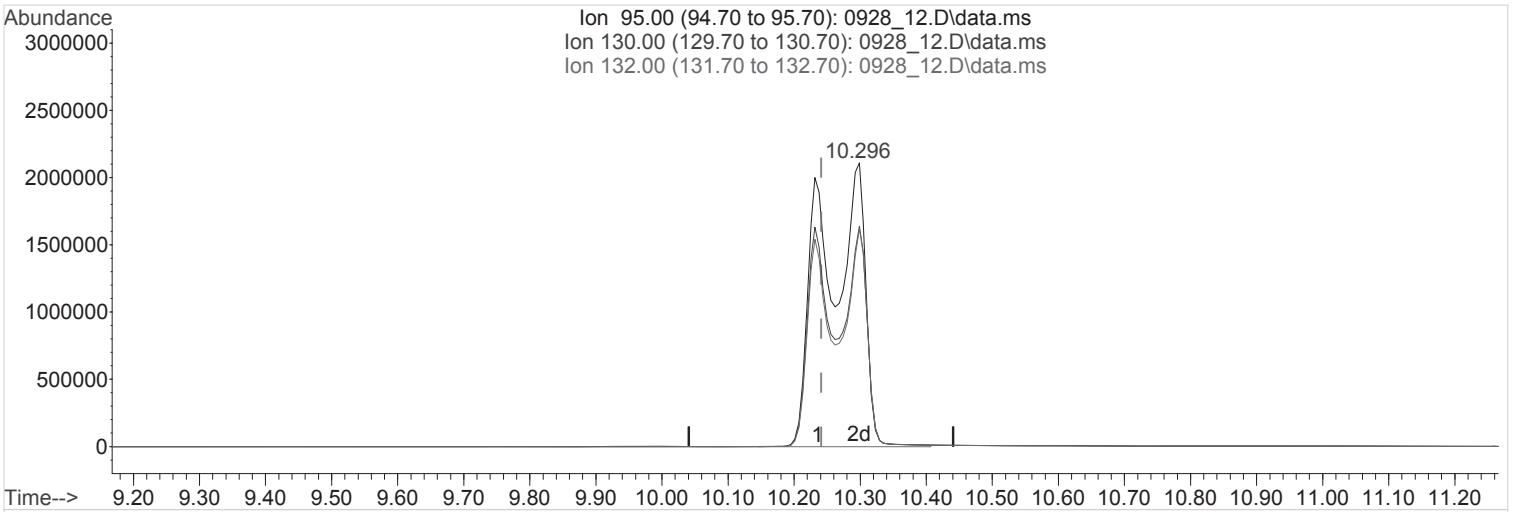
response 43225102 Limit = 0.1090000

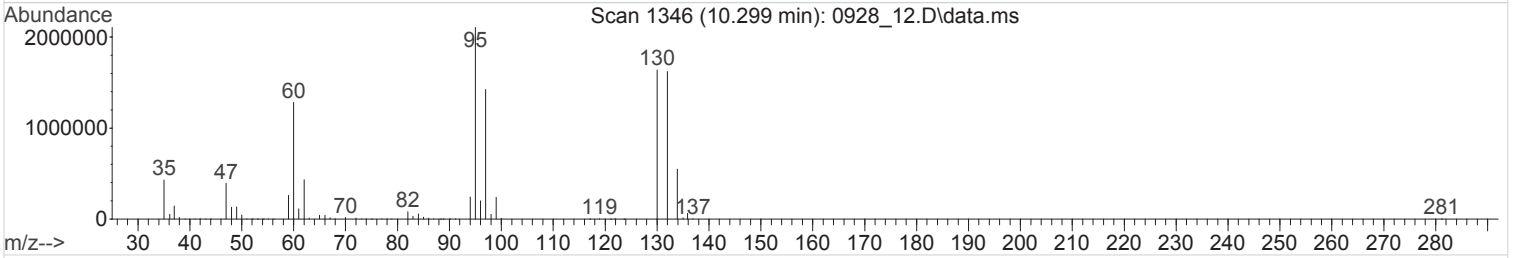
Ion	Exp%	Act%
95.00	100	100
130.00	102.00	81.34#
132.00	97.20	76.38#
0.00	0.00	0.00

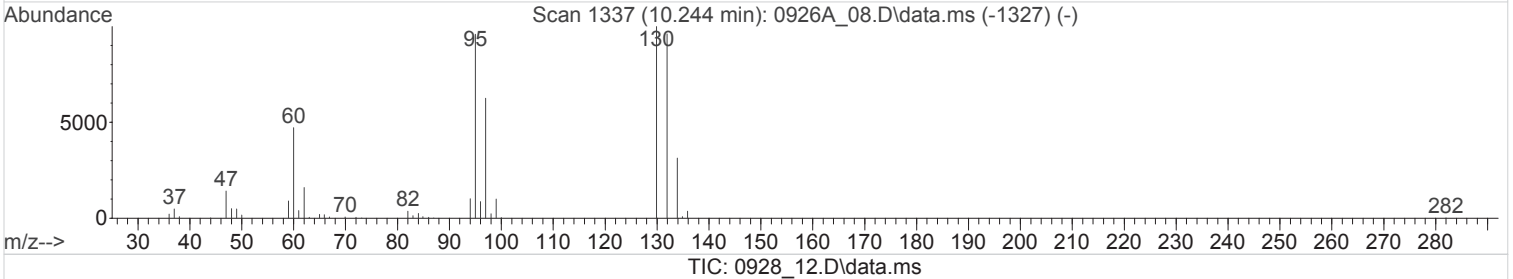
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_12.D
Acq On : 28 Sep 2016 3:16 pm
Operator : 564
Sample : L861822-08 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 16:43:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_12.D\data.ms

(41) Trichloroethene (T,M)

10.299min (+0.057) 387.6311812 ppbv m E

response 91379593 Limit = 0.1090000

Ion	Exp%	Act%
95.00	100	100
130.00	102.00	38.47#
132.00	97.20	36.13#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_13.D
Acq On : 28 Sep 2016 4:01 pm
Operator : 564
Sample : L861822-09 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 2
InstName : AIRMS2

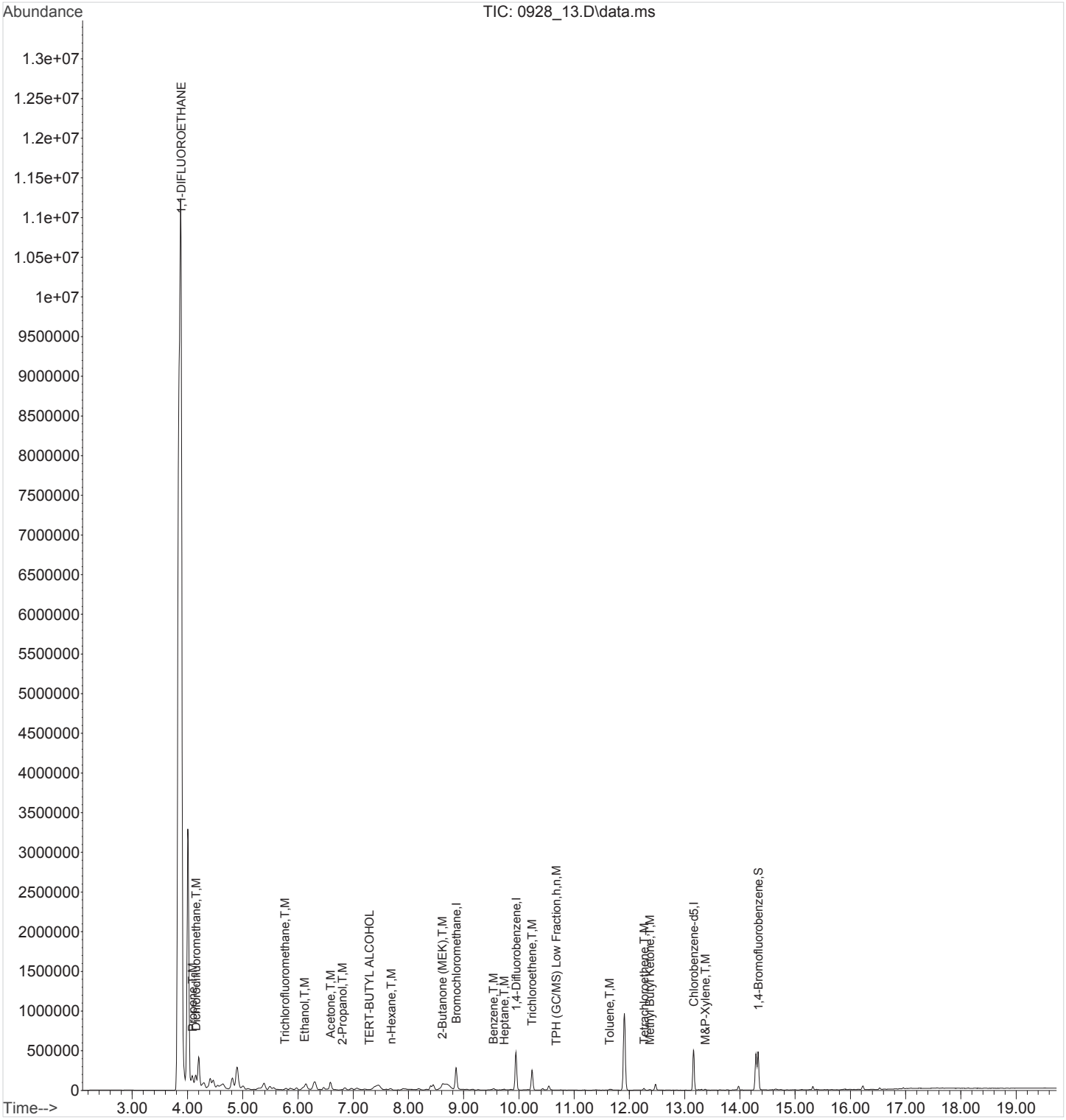
Quant Time: Sep 28 16:46:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

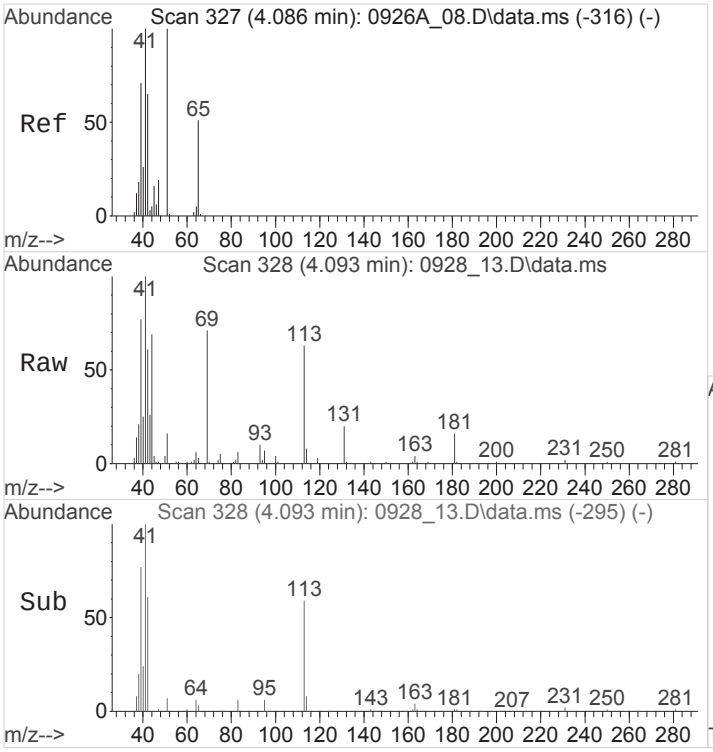
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.866	130	1027700	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.948	114	4269440	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3057567	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1798128	3.7853171	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 94.63%			
Target Compounds						Qvalue
2) Propene	4.090	41	642827	7.2714549	ppbv	93
3) 1,1-DIFLUOROETHANE	3.887	65	1040522	18.4958601	ppbv #	1
4) Dichlorodifluoromethane	4.154	85	62178	0.3659088	ppbv #	42
13) Trichlorofluoromethane	5.764	101	59009	0.3597708	ppbv	98
14) Ethanol	6.116	45	131751	8.8936682	ppbv	97
17) Acetone	6.589	43	1534588	5.8036074	ppbv	99
18) 2-Propanol	6.807	45	88209	0.4938855	ppbv #	74
22) TERT-BUTYL ALCOHOL	7.292	59	72580	0.3662362	ppbv #	56
25) n-Hexane	7.692	57	66200	0.4736351	ppbv #	1
29) 2-Butanone (MEK)	8.619	72	87609	2.1393160	ppbv	95
38) Benzene	9.537	78	57368	0.2061565	ppbv #	1
40) Heptane	9.734	43	80870	0.4208447	ppbv #	59
41) Trichloroethene	10.239	95	985764	9.0940354	ppbv	95
50) Toluene	11.643	91	91208	0.2747945	ppbv	97
53) Tetrachloroethene	12.266	166	89876	0.6416841	ppbv	97
54) Methyl Butyl Ketone	12.372	43	72020	0.3791326	ppbv #	90
60) M&P-Xylene	13.372	91	67898	0.2439574	ppbv	96
84) TPH (GC/MS) Low Fraction	10.675	TIC	82422774m	125.9051976	ppbv	

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

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_13.D
Acq On : 28 Sep 2016 4:01 pm
Operator : 564
Sample : L861822-09 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 28 16:46:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

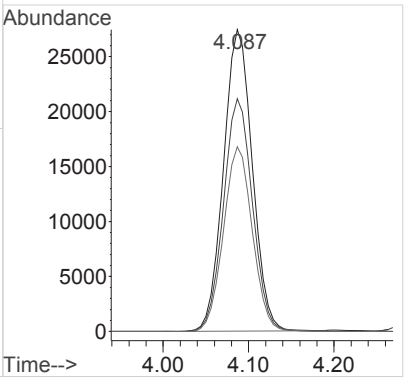


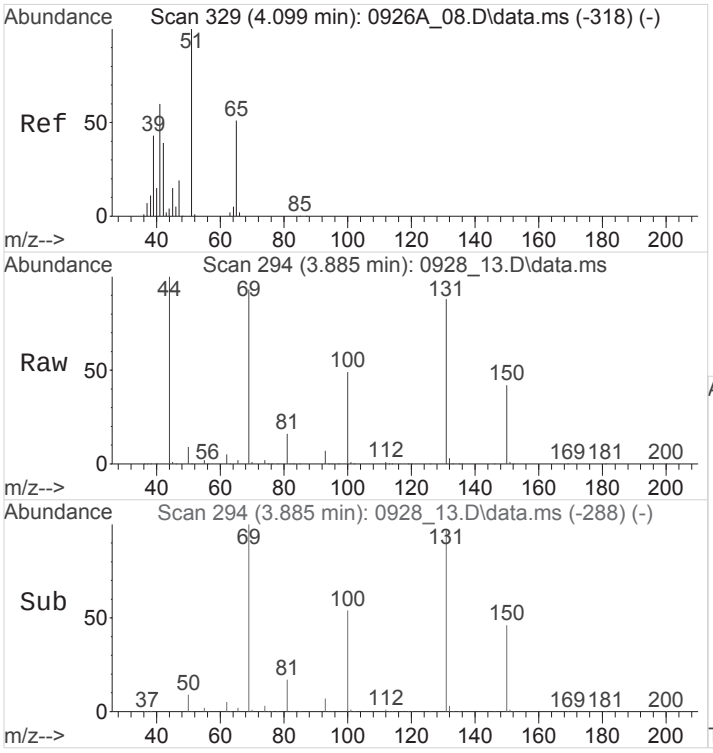


#2
Propene
Concen: 7.2714549 ppbv
RT: 4.090 min Scan# 328
Delta R.T. 0.001 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 41 Resp: 642827

Ion	Ratio	Lower	Upper
41	100		
39	77.6	56.5	84.7
42	61.3	52.2	78.4

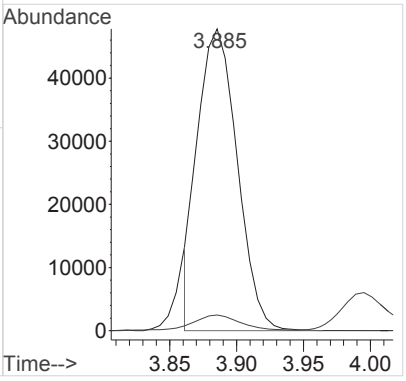


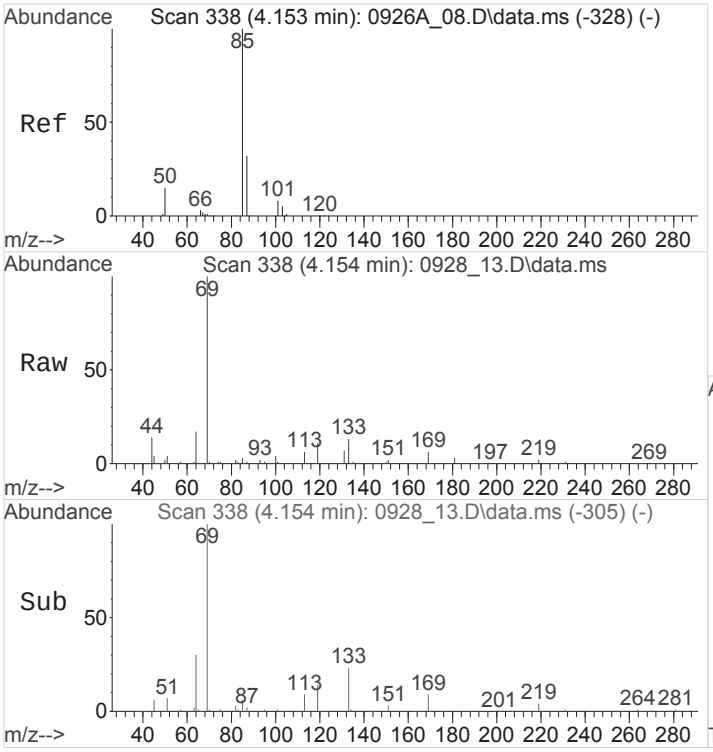


#3
1,1-DIFLUOROETHANE
Concen: 18.4958601 ppbv
RT: 3.887 min Scan# 294
Delta R.T. -0.211 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 65 Resp: 1040522

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

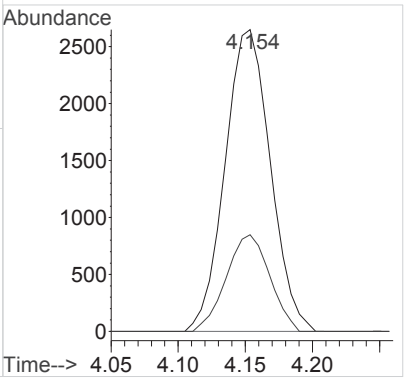


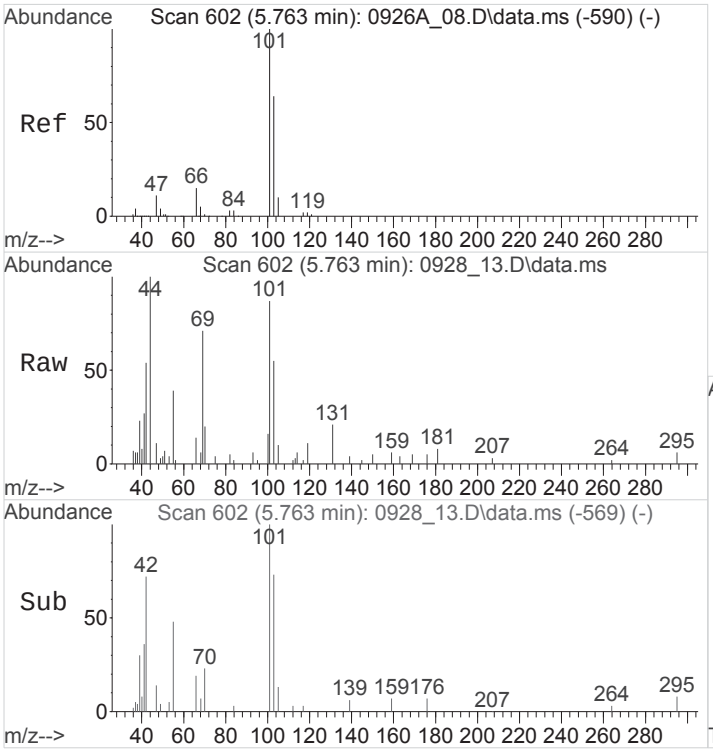


#4
Dichlorodifluoromethane
Concen: 0.3659088 ppbv
RT: 4.154 min Scan# 338
Delta R.T. 0.001 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 85 Resp: 62178

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

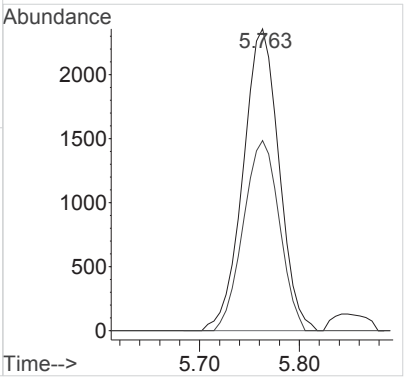


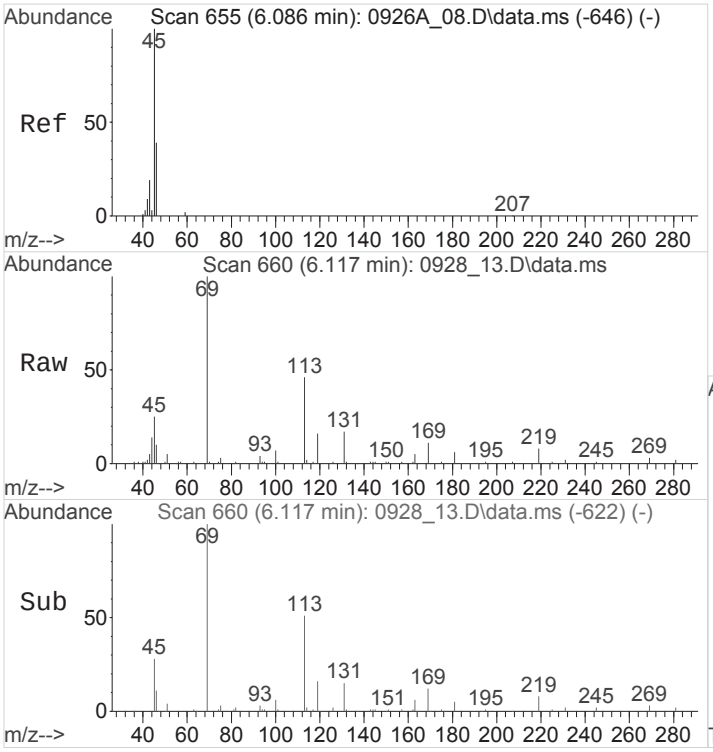


#13
Trichlorofluoromethane
Concen: 0.3597708 ppbv
RT: 5.764 min Scan# 602
Delta R.T. 0.003 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion:101 Resp: 59009

Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.7	77.5

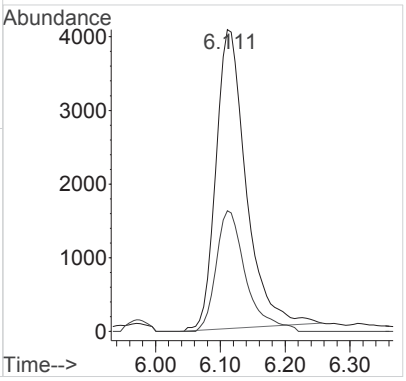


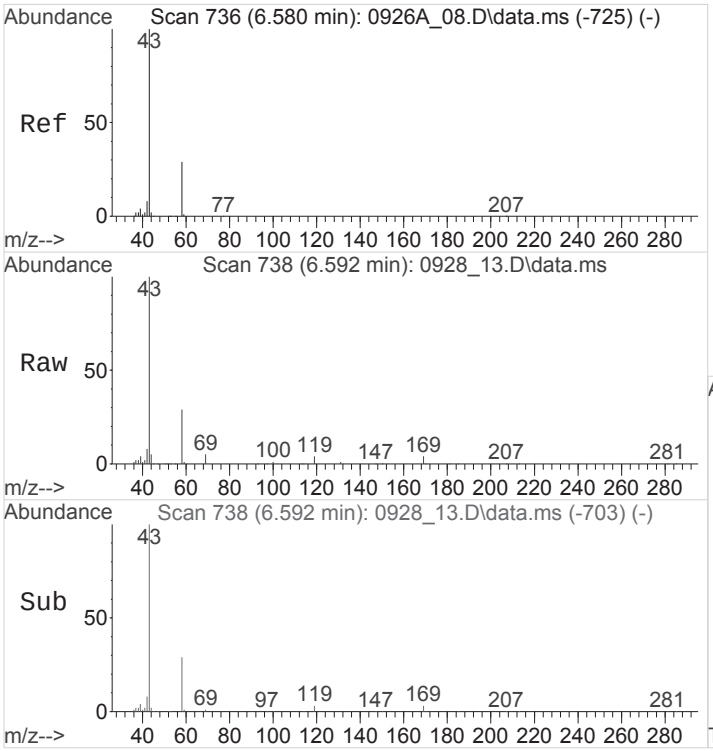


#14
Ethanol
Concen: 8.8936682 ppbv
RT: 6.116 min Scan# 660
Delta R.T. 0.028 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 45 Resp: 131751

Ion	Ratio	Lower	Upper
45	100		
46	39.6	33.0	49.4

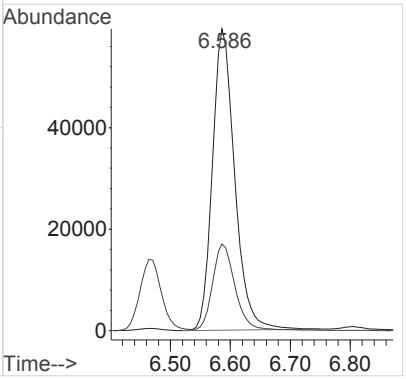


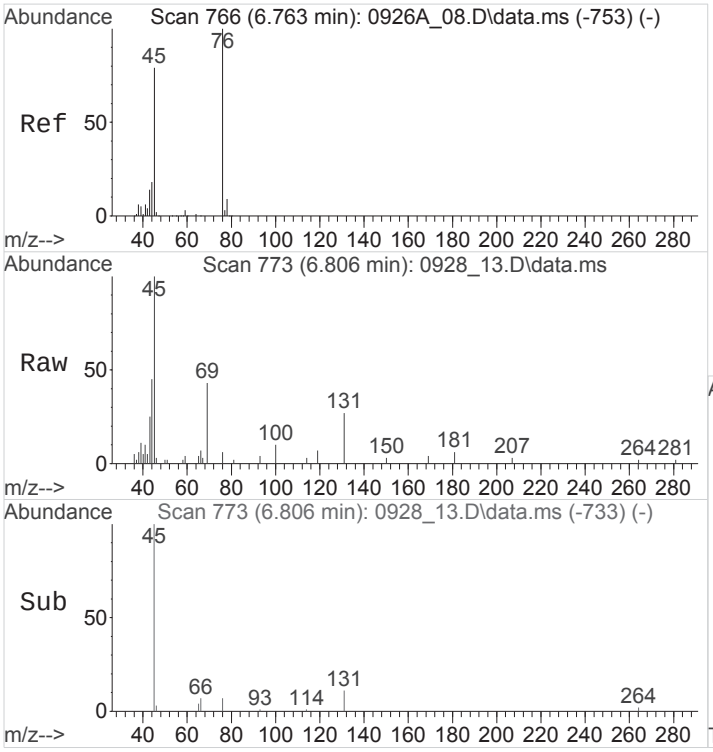


#17
Acetone
Concen: 5.8036074 ppbv
RT: 6.589 min Scan# 738
Delta R.T. 0.010 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 43 Resp: 1534588

Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.1	34.7

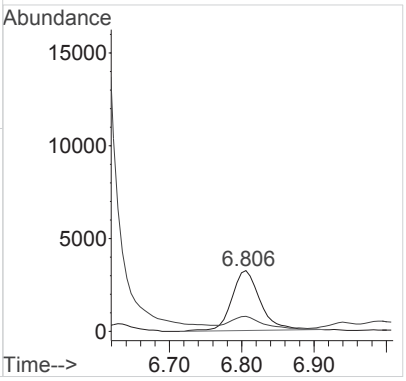


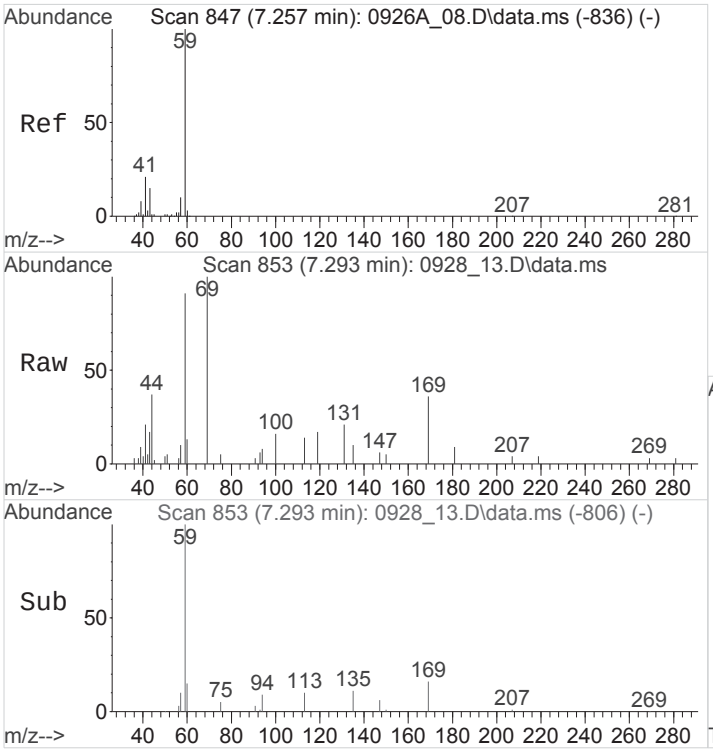


#18
2-Propanol
Concen: 0.4938855 ppbv
RT: 6.807 min Scan# 773
Delta R.T. 0.046 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 45 Resp: 88209

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

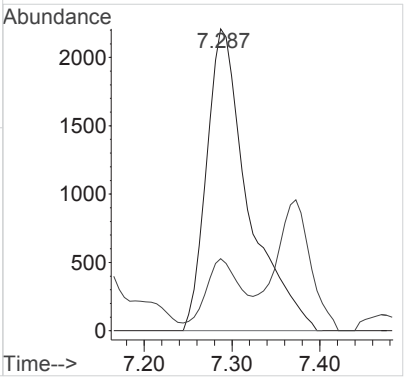


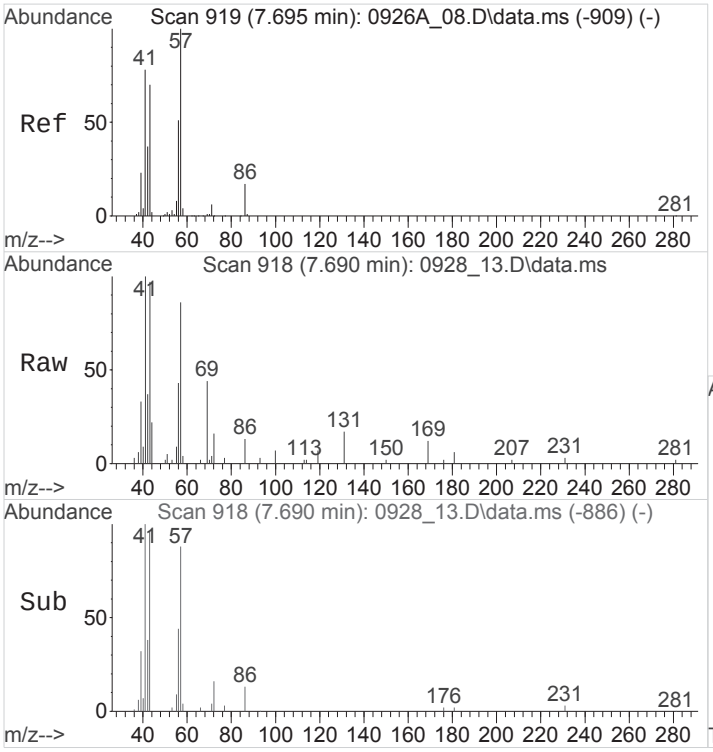


#22
TERT-BUTYL ALCOHOL
Concen: 0.3662362 ppbv
RT: 7.292 min Scan# 853
Delta R.T. 0.036 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 59 Resp: 72580

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

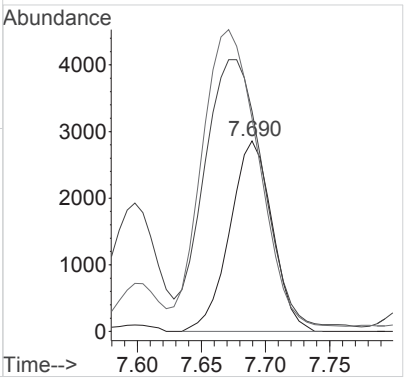


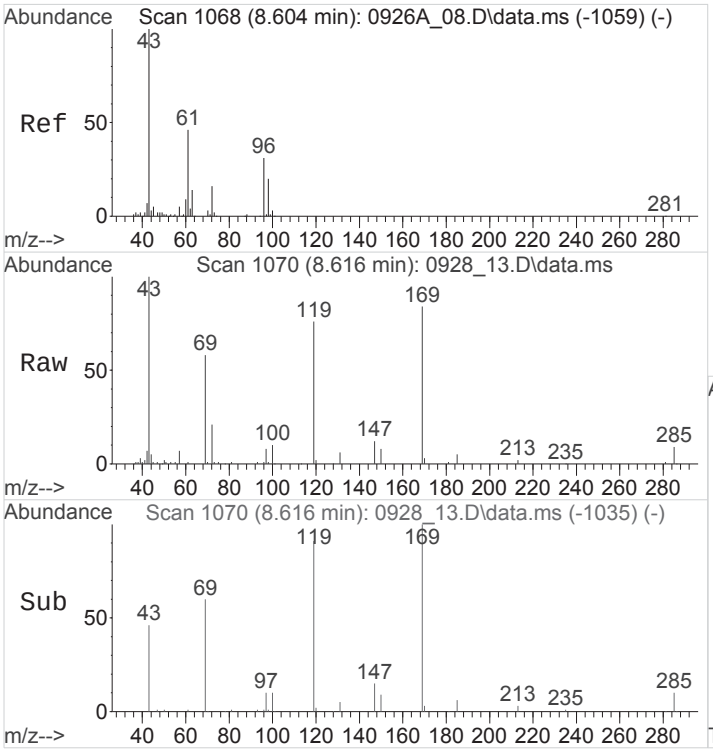


#25
n-Hexane
Concen: 0.4736351 ppbv
RT: 7.692 min Scan# 918
Delta R.T. -0.001 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 57 Resp: 66200

Ion	Ratio	Lower	Upper
57	100		
41	192.2	63.2	94.8#
43	208.3	56.0	84.0#

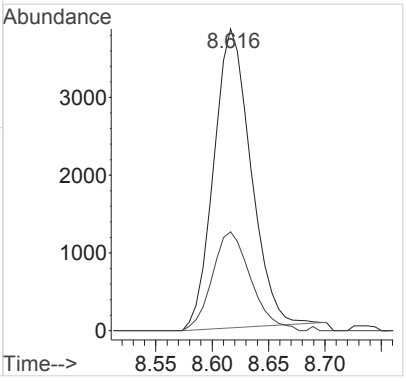


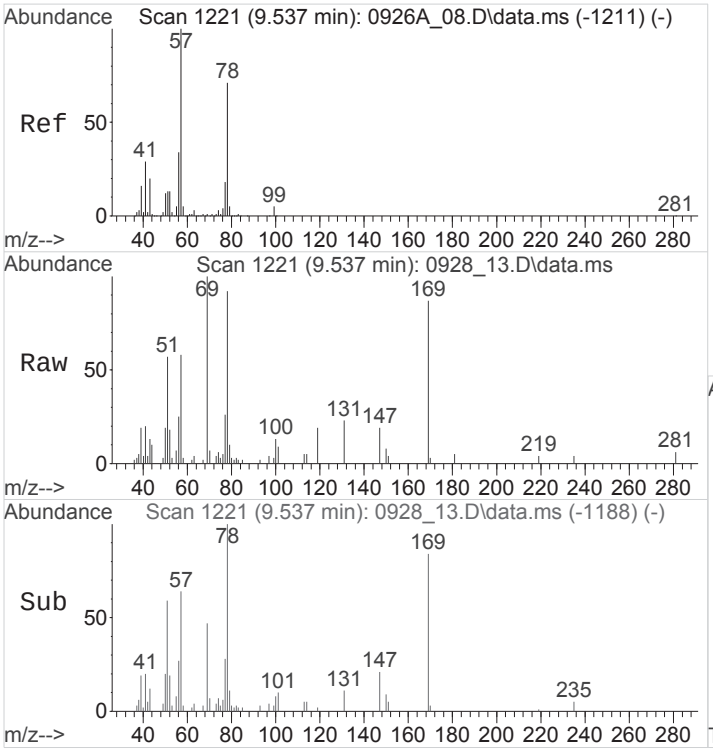


#29
2-Butanone (MEK)
Concen: 2.1393160 ppbv
RT: 8.619 min Scan# 1070
Delta R.T. 0.018 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 72 Resp: 87609

Ion	Ratio	Lower	Upper
72	100		
57	34.5	25.6	38.4

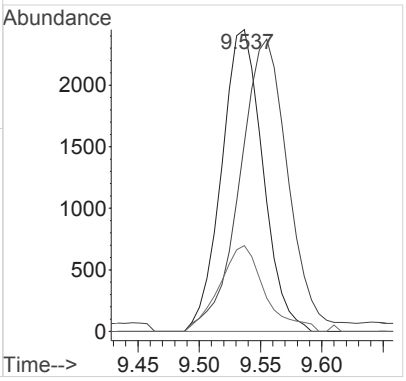


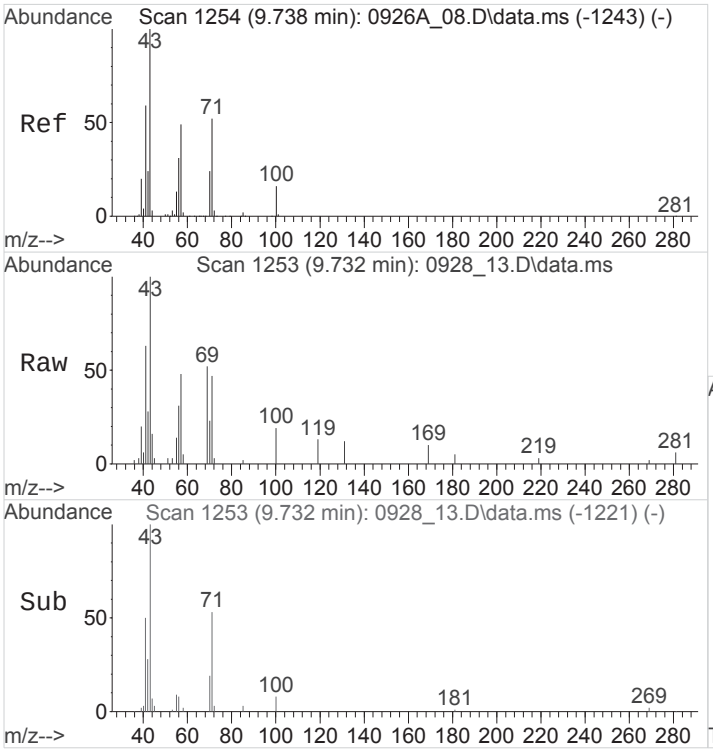


#38
Benzene
Concen: 0.2061565 ppbv
RT: 9.537 min Scan# 1221
Delta R.T. -0.001 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 78 Resp: 57368

Ion	Ratio	Lower	Upper
78	100		
51	108.4	15.4	23.0#
77	0.0	19.9	29.9#

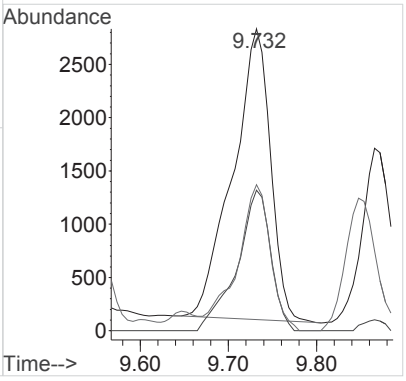


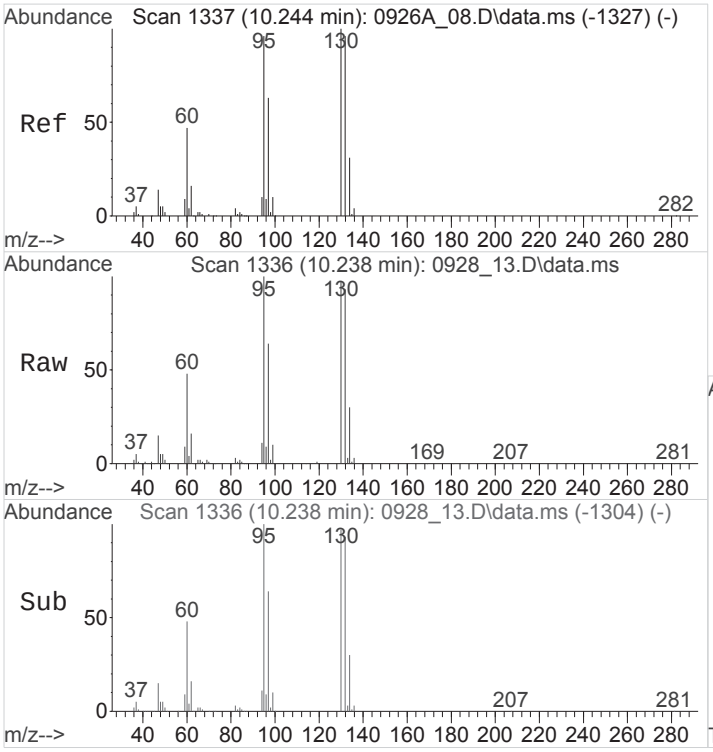


#40
Heptane
Concen: 0.4208447 ppbv
RT: 9.734 min Scan# 1253
Delta R.T. -0.003 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 43 Resp: 80870

Ion	Ratio	Lower	Upper
43	100		
71	43.1	41.4	62.0
57	0.0	39.3	58.9#

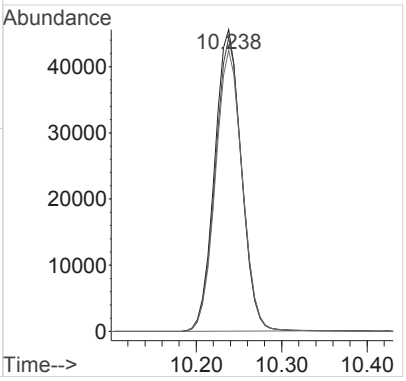


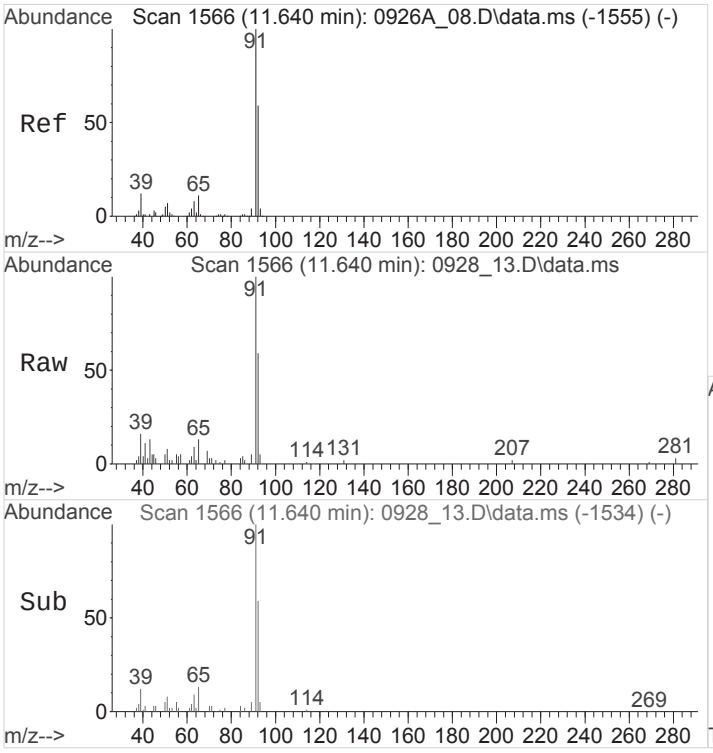


#41
Trichloroethene
Concen: 9.0940354 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.002 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 95 Resp: 985764

Ion	Ratio	Lower	Upper
95	100		
130	96.7	81.6	122.4
132	93.5	77.8	116.6

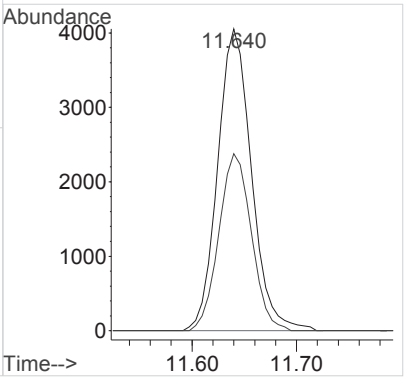


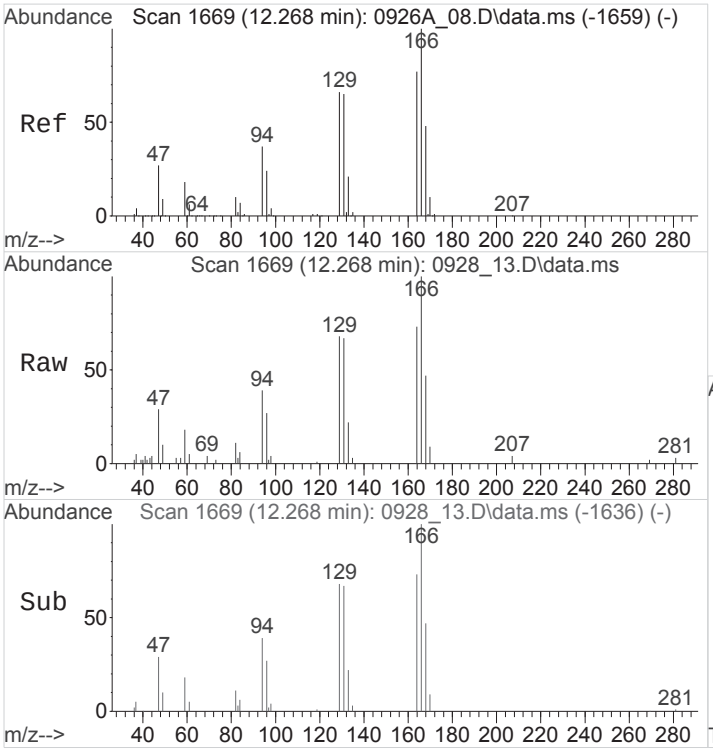


#50
Toluene
Concen: 0.2747945 ppbv
RT: 11.643 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 91 Resp: 91208

Ion	Ratio	Lower	Upper
91	100		
92	56.4	46.6	70.0

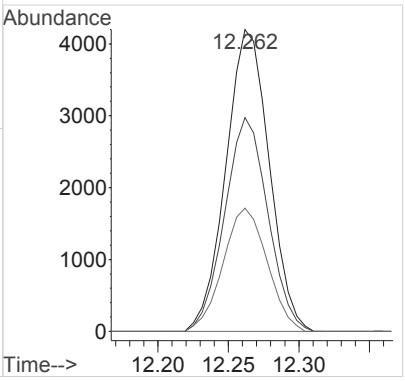


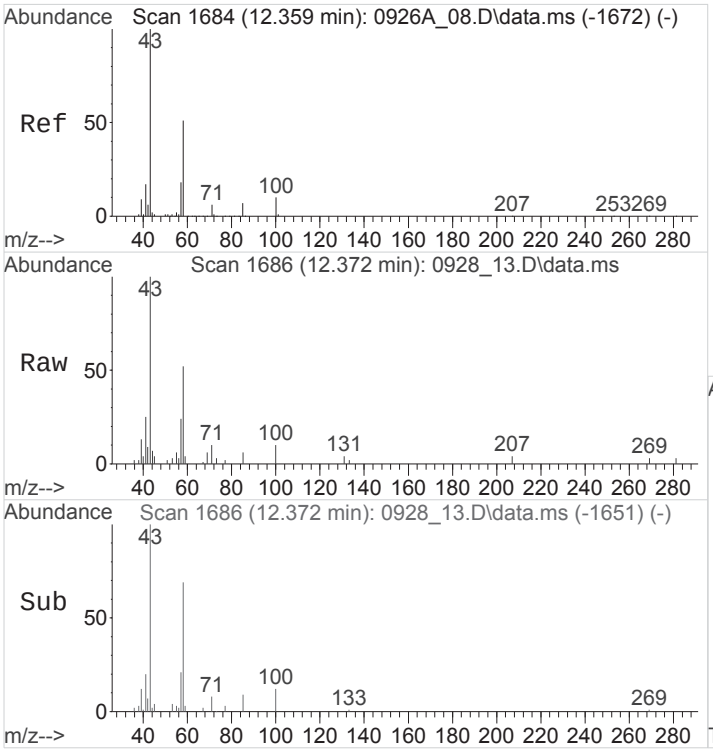


#53
Tetrachloroethene
Concen: 0.6416841 ppbv
RT: 12.266 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion:166 Resp: 89876

Ion	Ratio	Lower	Upper
166	100		
129	70.6	55.0	82.6
94	41.7	31.3	46.9

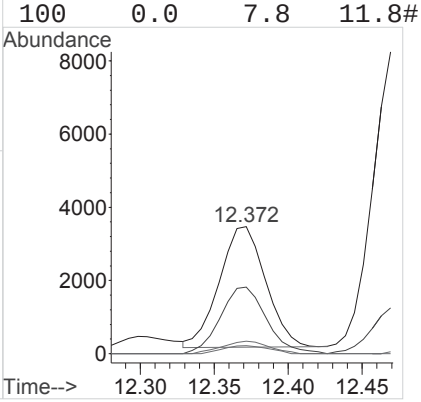


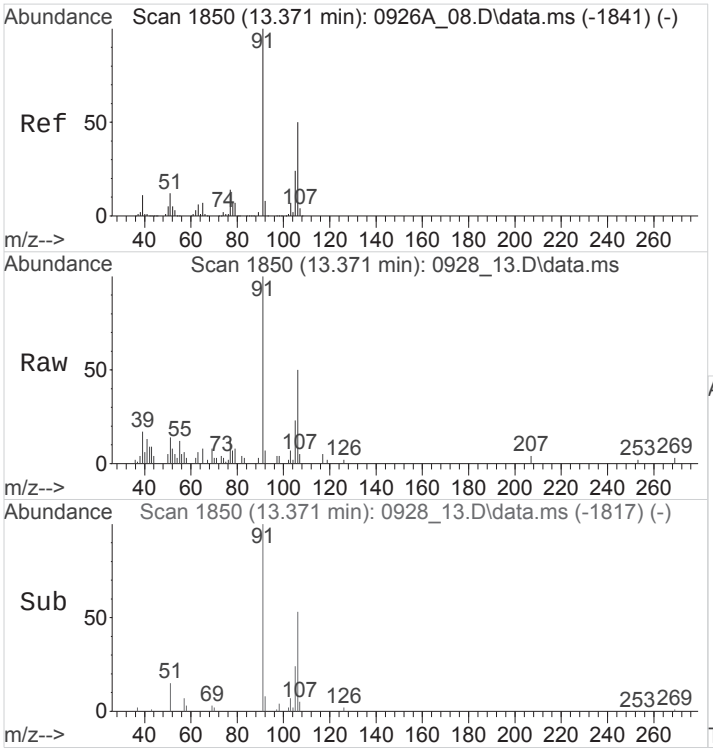


#54
Methyl Butyl Ketone
Concen: 0.3791326 ppbv
RT: 12.372 min Scan# 1686
Delta R.T. 0.014 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 43 Resp: 72020

Ion	Ratio	Lower	Upper
43	100		
58	54.6	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

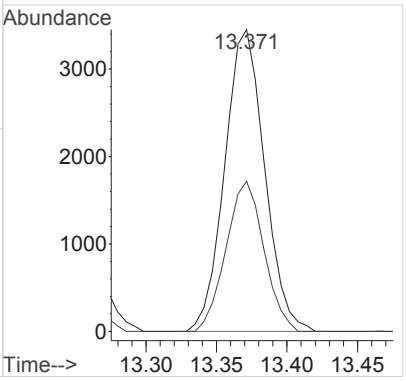


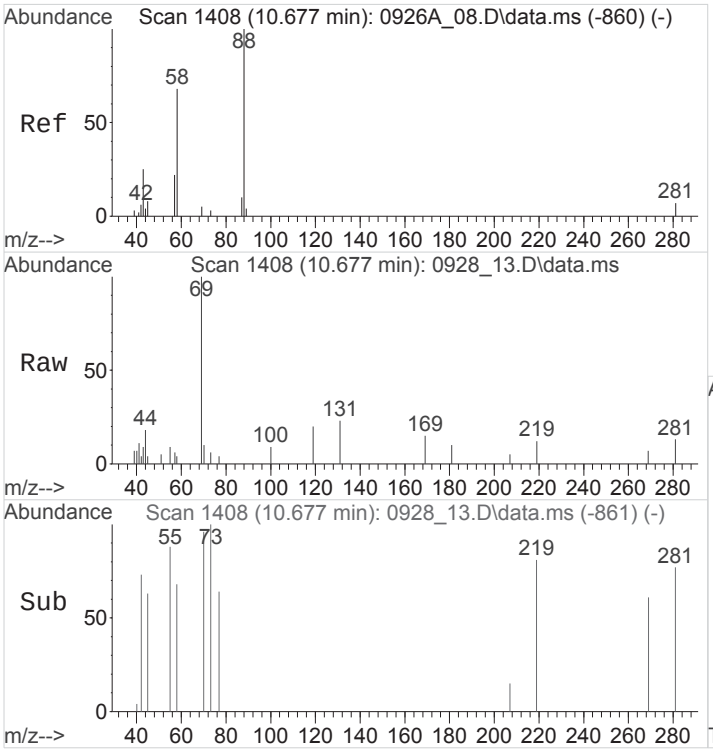


#60
M&P-Xylene
Concen: 0.2439574 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

Tgt Ion: 91 Resp: 67898

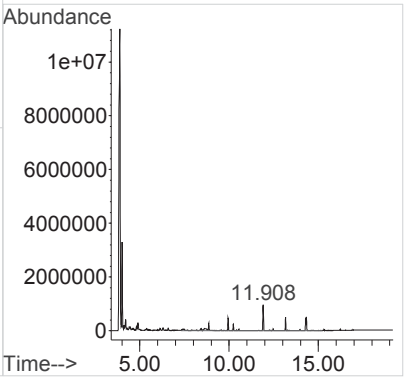
Ion	Ratio	Lower	Upper
91	100		
106	47.3	39.8	59.6





#84
TPH (GC/MS) Low Fraction
Concen: 125.9051976 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_13.D
Acq: 28 Sep 2016 4:01 pm

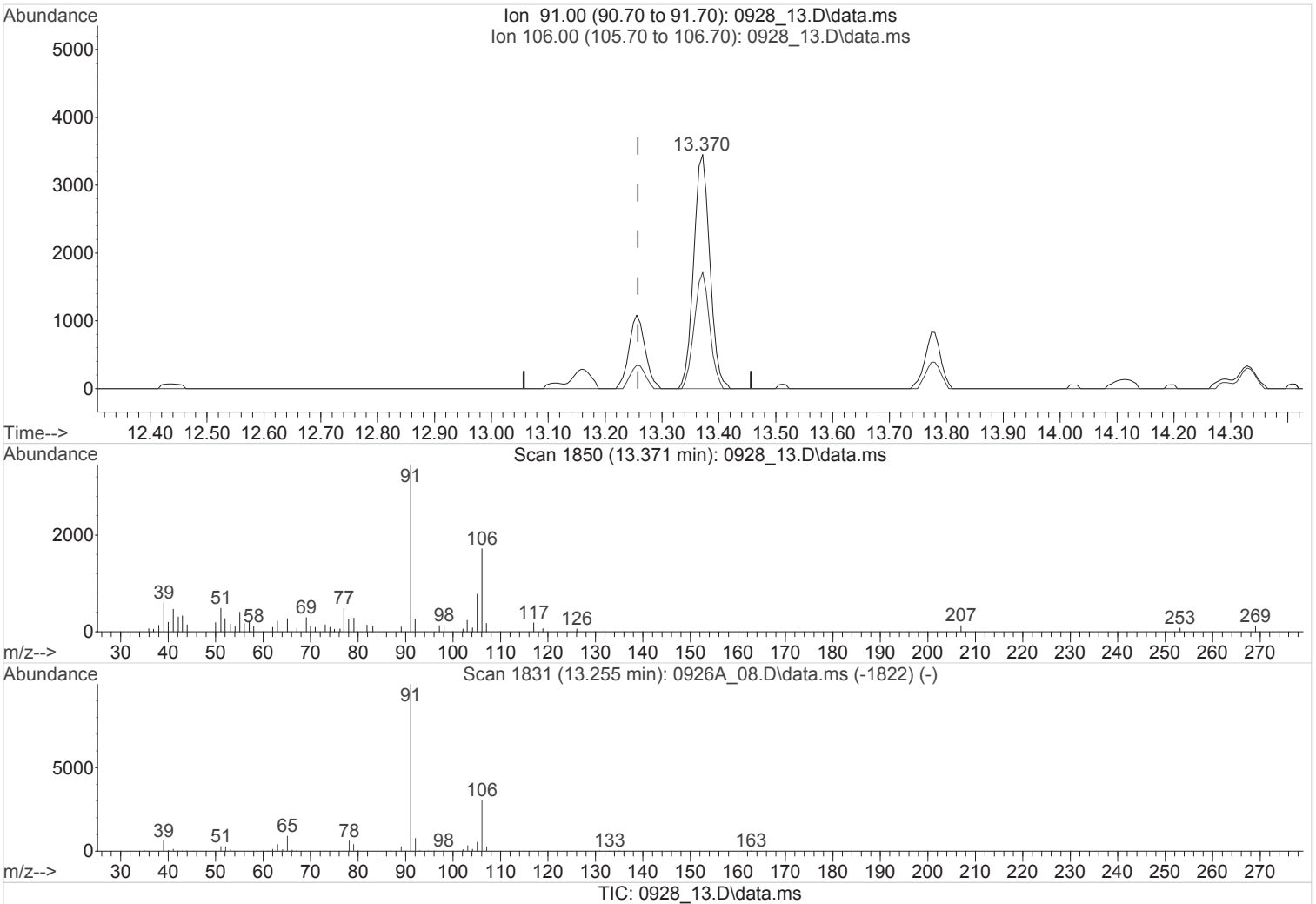
Tgt Ion:TIC Resp:82422774



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_13.D
Acq On : 28 Sep 2016 4:01 pm
Operator : 564
Sample : L861822-09 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 16:43:25 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



TIC: 0928_13.D\data.ms

(59) Ethylbenzene (T,M)

13.372min (+0.115) 0.0921861 ppbv

Qvalue = 69

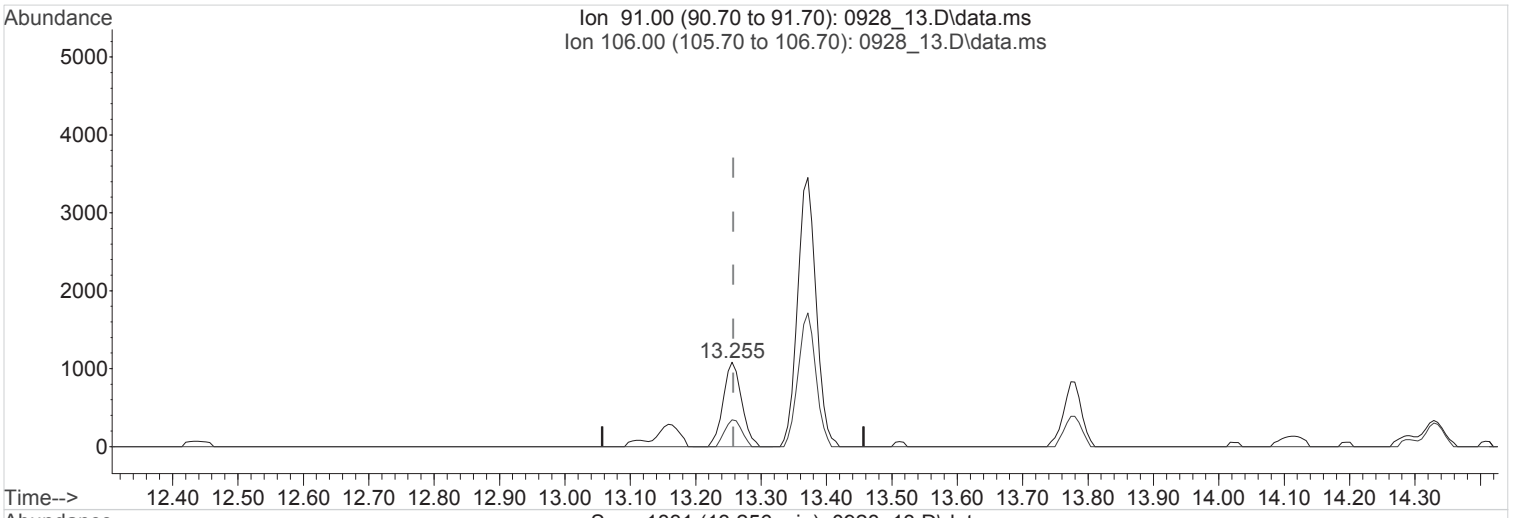
response 67899 Limit = 0.1012000

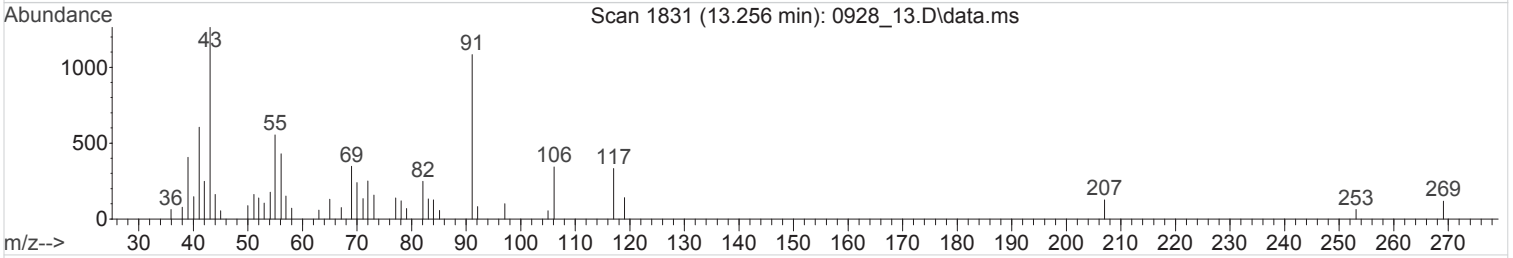
Ion	Exp%	Act%
91.00	100	100
106.00	30.40	47.26#
0.00	0.00	0.00
0.00	0.00	0.00

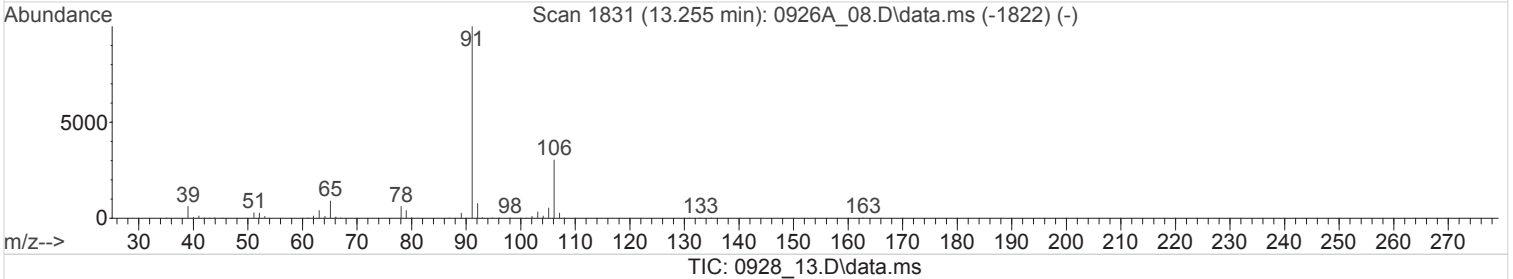
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_13.D
Acq On : 28 Sep 2016 4:01 pm
Operator : 564
Sample : L861822-09 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 28 16:43:25 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_13.D\data.ms

(59) Ethylbenzene (T,M)

13.256min (-0.002) 0.0287686 ppbv m

response 21189 Limit = 0.1012000

Ion	Exp%	Act%
91.00	100	100
106.00	30.40	151.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_14.D
Acq On : 28 Sep 2016 4:46 pm
Operator : 564
Sample : L861822-10 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 14 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 07:58:36 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

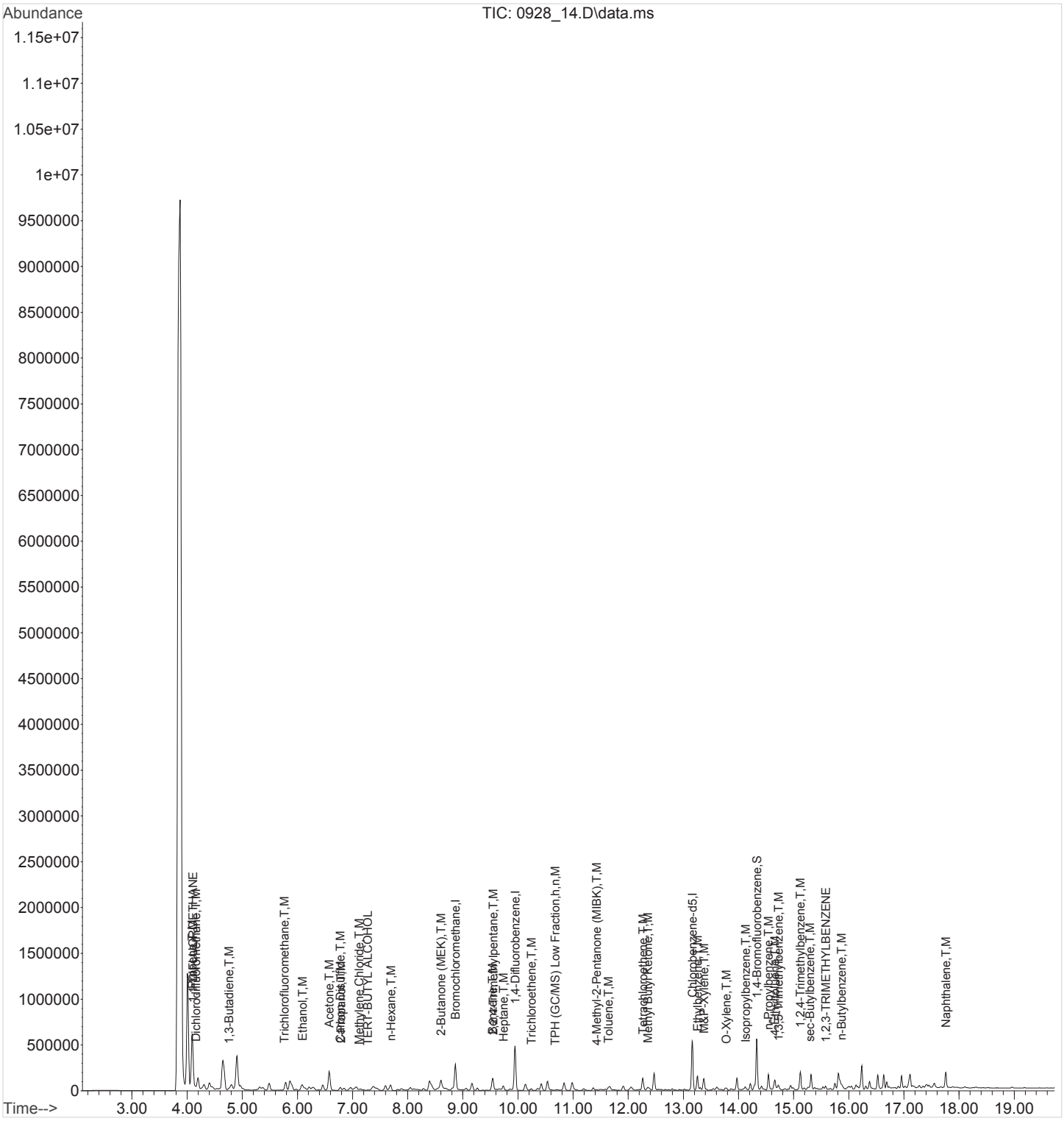
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.868	130	1066151	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.949	114	4405684	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3285592	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2086728	4.0879892	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 102.20%			
Target Compounds						Qvalue
2) Propene	4.095	41	4012799	43.7544493	ppbv	93
3) 1,1-DIFLUOROETHANE	4.105	65	77732	1.3318925	ppbv	84
4) Dichlorodifluoromethane	4.160	85	53712	0.3046876	ppbv	100
9) 1,3-Butadiene	4.758	39	52097	0.6176732	ppbv #	37
13) Trichlorofluoromethane	5.765	101	87837	0.5162147	ppbv	98
14) Ethanol	6.091	45	787177	51.2209942	ppbv	99
17) Acetone	6.578	43	3274940	11.9386949	ppbv	99
18) 2-Propanol	6.786	45	287135	1.5496959	ppbv #	74
19) Carbon Disulfide	6.777	76	313557	1.3191754	ppbv	93
21) Methylene Chloride	7.122	49	41552	0.3687356	ppbv #	37
22) TERT-BUTYL ALCOHOL	7.278	59	103086	0.5014095	ppbv #	1
25) n-Hexane	7.693	57	311531	2.1485107	ppbv #	55
29) 2-Butanone (MEK)	8.606	72	260595	6.1339413	ppbv	99
36) 2,2,4-Trimethylpentane	9.546	57	1167543	2.4095578	ppbv #	91
38) Benzene	9.538	78	271310	0.9448298	ppbv #	96
40) Heptane	9.735	43	262708	1.3248529	ppbv #	64
41) Trichloroethene	10.242	95	74408	0.6652087	ppbv	93
49) 4-Methyl-2-Pentanone (...	11.429	43	72145	0.2810151	ppbv #	80
50) Toluene	11.643	91	225870	0.6594677	ppbv	99
53) Tetrachloroethene	12.267	166	495029	3.4250560	ppbv	96
54) Methyl Butyl Ketone	12.359	43	250464	1.2777356	ppbv #	94
59) Ethylbenzene	13.257	91	1132489	2.8617284	ppbv	99
60) M&P-Xylene	13.373	91	690206	2.3078161	ppbv	99
61) O-Xylene	13.777	91	80610	0.2647075	ppbv	97
64) Isopropylbenzene	14.126	105	219843	0.5252588	ppbv #	91
66) n-Propylbenzene	14.545	91	1450955	2.9213670	ppbv	100
67) 4-Ethyltoluene	14.660	105	593122	1.4646475	ppbv	99
70) 1,3,5-Trimethylbenzene	14.723	105	220741	0.6459721	ppbv	98
72) 1,2,4-Trimethylbenzene	15.124	105	1138743	3.3765779	ppbv	99
73) sec-Butylbenzene	15.294	105	86236	0.1652250	ppbv #	1
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	182394	0.5330176	ppbv	98
79) n-Butylbenzene	15.872	91	313783	0.8175081	ppbv #	71
83) Naphthalene	17.761	128	1498374	8.3293321	ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	102348000m	145.4916860	ppbv	

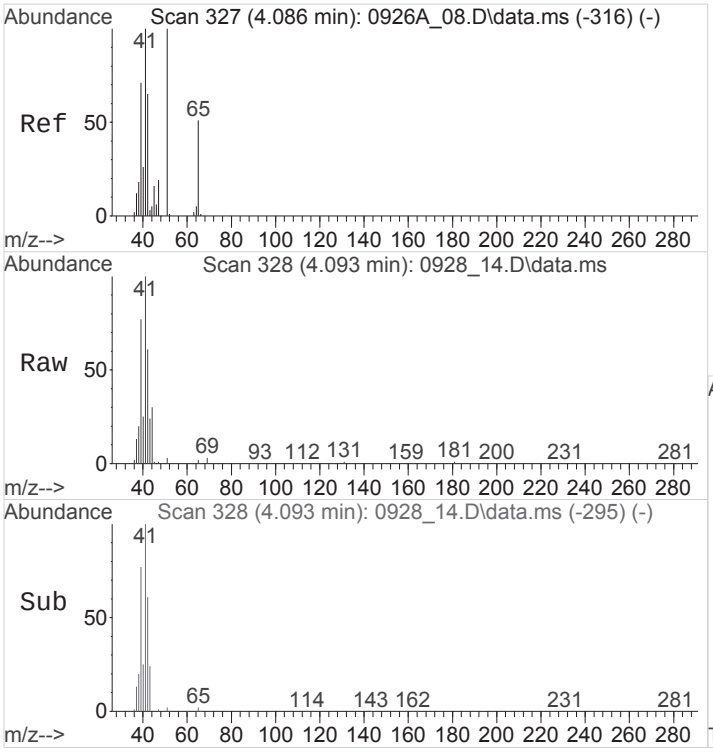
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_14.D
Acq On : 28 Sep 2016 4:46 pm
Operator : 564
Sample : L861822-10 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 14 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 07:58:36 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

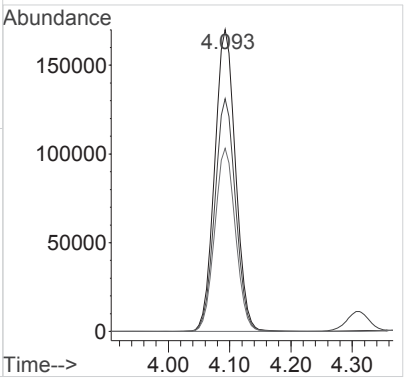


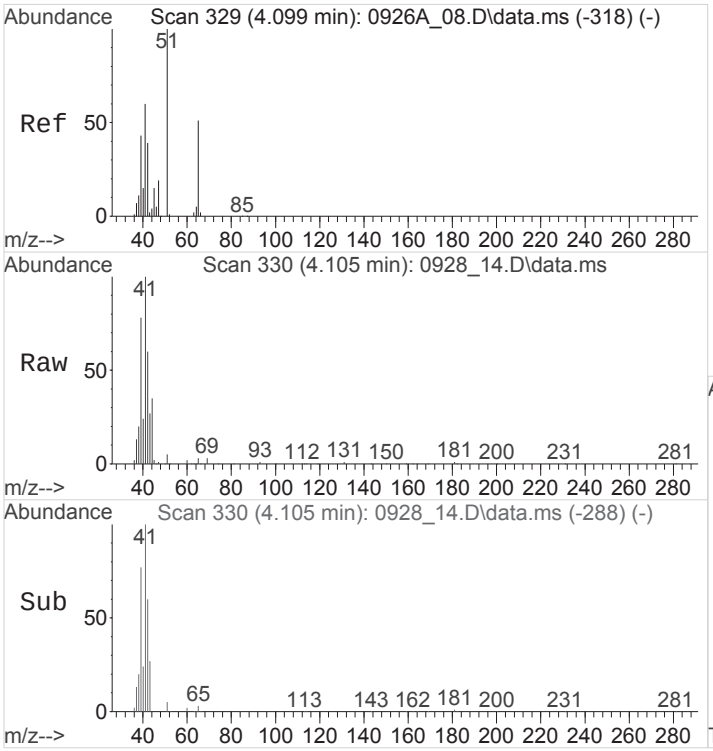


#2
Propene
Concen: 43.7544493 ppbv
RT: 4.095 min Scan# 328
Delta R.T. 0.006 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 41 Resp: 4012799

Ion	Ratio	Lower	Upper
41	100		
39	76.8	56.5	84.7
42	60.6	52.2	78.4

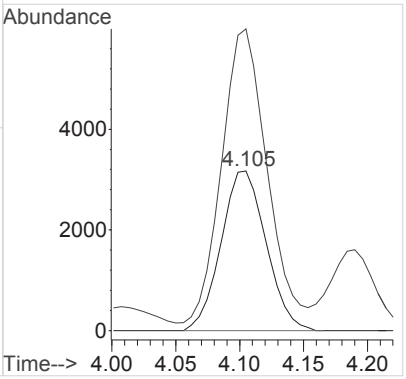


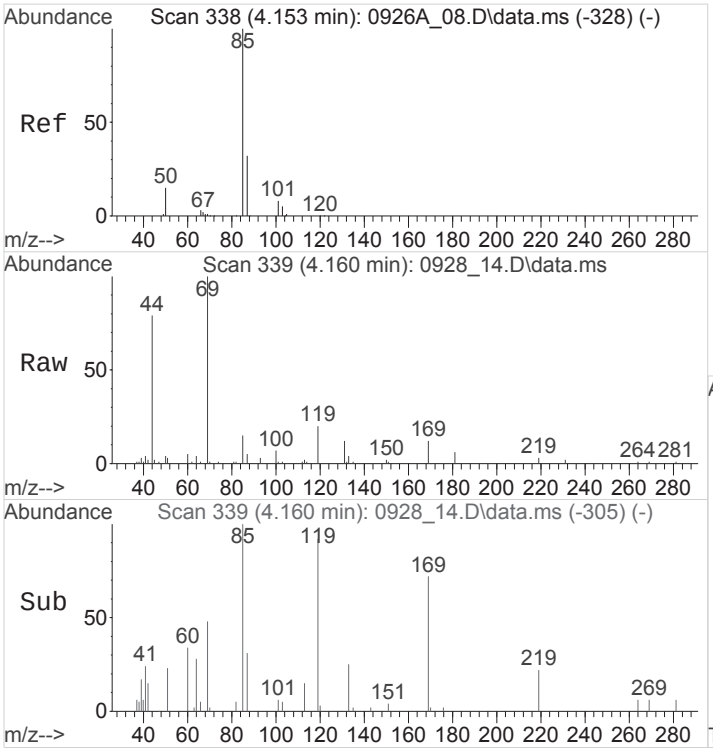


#3
1,1-DIFLUOROETHANE
Concen: 1.3318925 ppbv
RT: 4.105 min Scan# 330
Delta R.T. 0.006 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 65 Resp: 77732

Ion	Ratio	Lower	Upper
65	100		
51	169.7	154.7	232.1

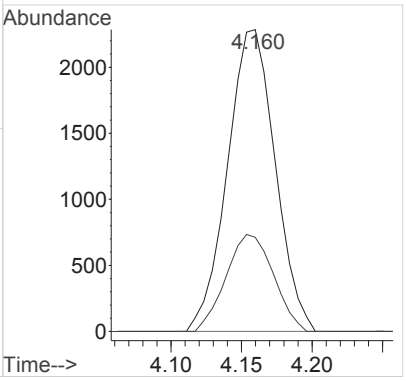


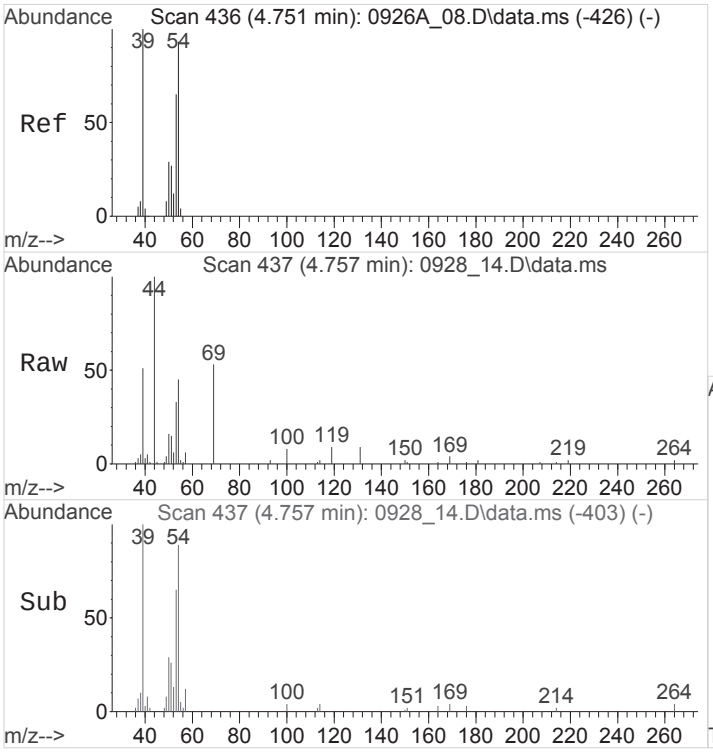


#4
Dichlorodifluoromethane
Concen: 0.3046876 ppbv
RT: 4.160 min Scan# 339
Delta R.T. 0.007 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 85 Resp: 53712

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.8	38.6

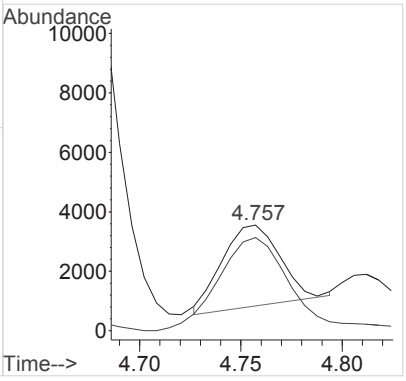


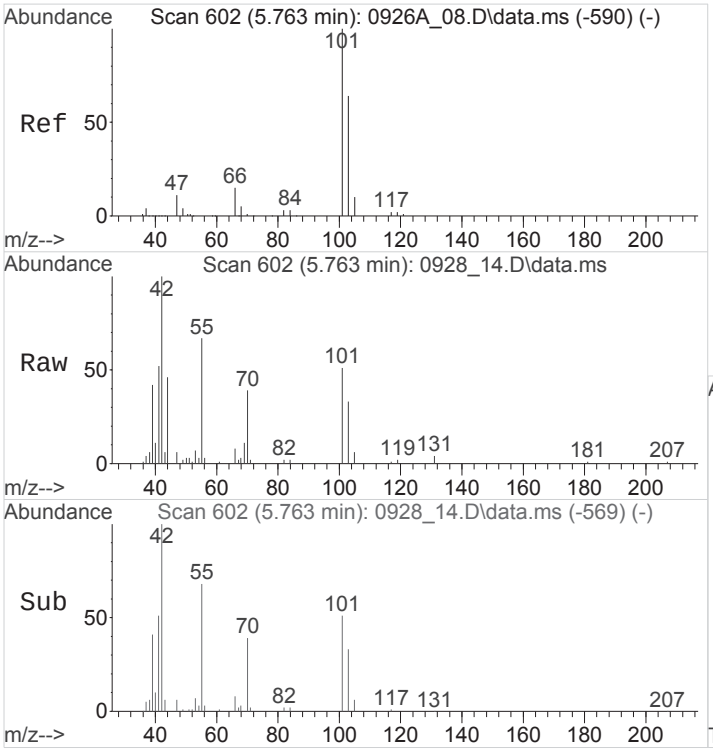


#9
1,3-Butadiene
Concen: 0.6176732 ppbv
RT: 4.758 min Scan# 437
Delta R.T. 0.007 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 39 Resp: 52097

Ion	Ratio	Lower	Upper
39	100		
54	151.4	73.4	110.0#

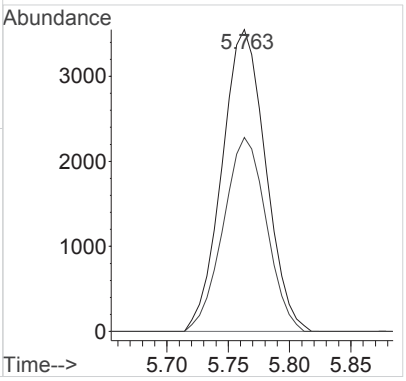


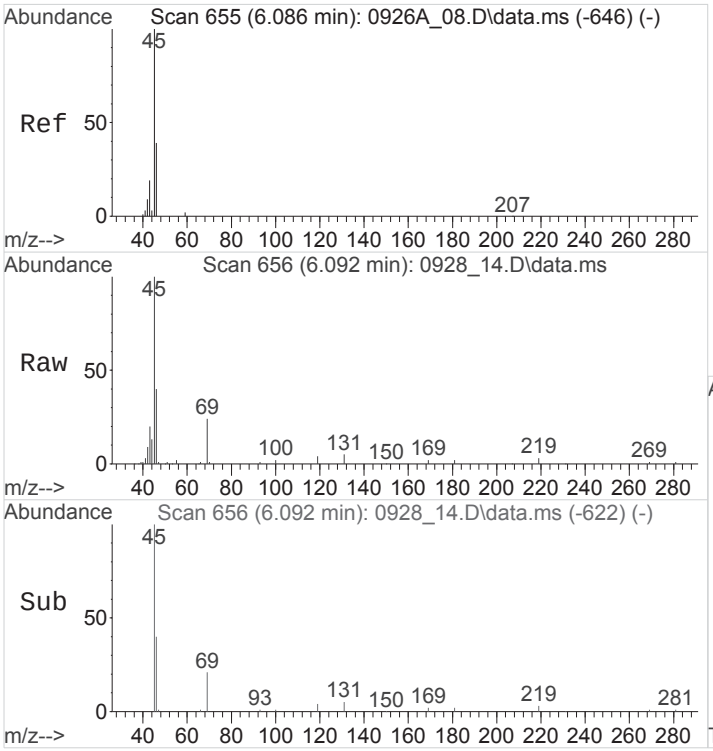


#13
Trichlorofluoromethane
Concen: 0.5162147 ppbv
RT: 5.765 min Scan# 602
Delta R.T. 0.004 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:101 Resp: 87837

Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.7	77.5

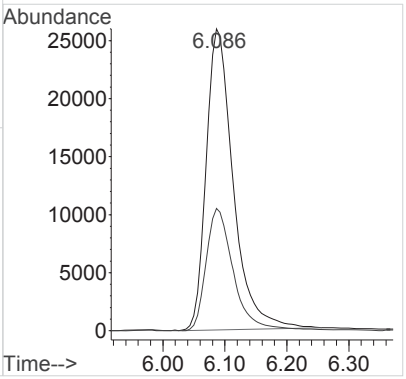


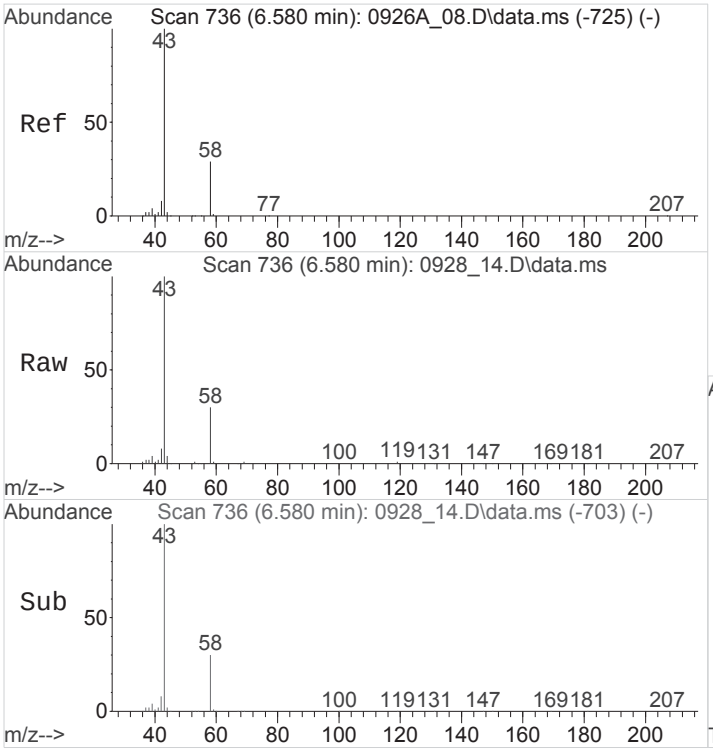


#14
Ethanol
Concen: 51.2209942 ppbv
RT: 6.091 min Scan# 656
Delta R.T. 0.003 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 45 Resp: 787177

Ion	Ratio	Lower	Upper
45	100		
46	40.3	33.0	49.4

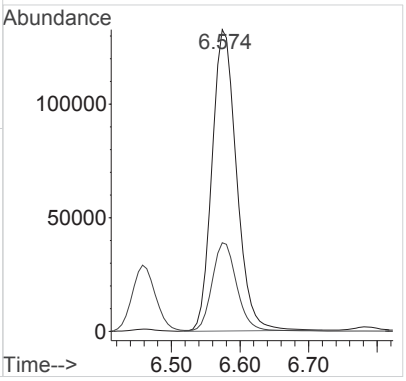


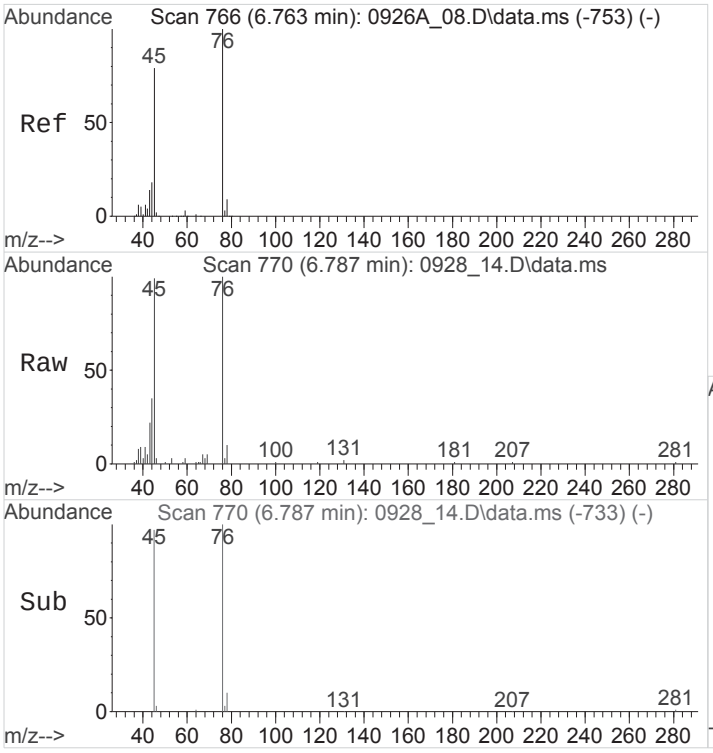


#17
Acetone
Concen: 11.9386949 ppbv
RT: 6.578 min Scan# 736
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 43 Resp: 3274940

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.1	34.7

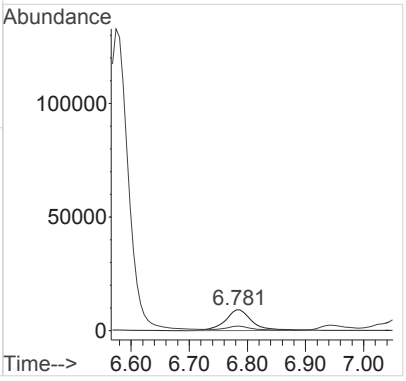


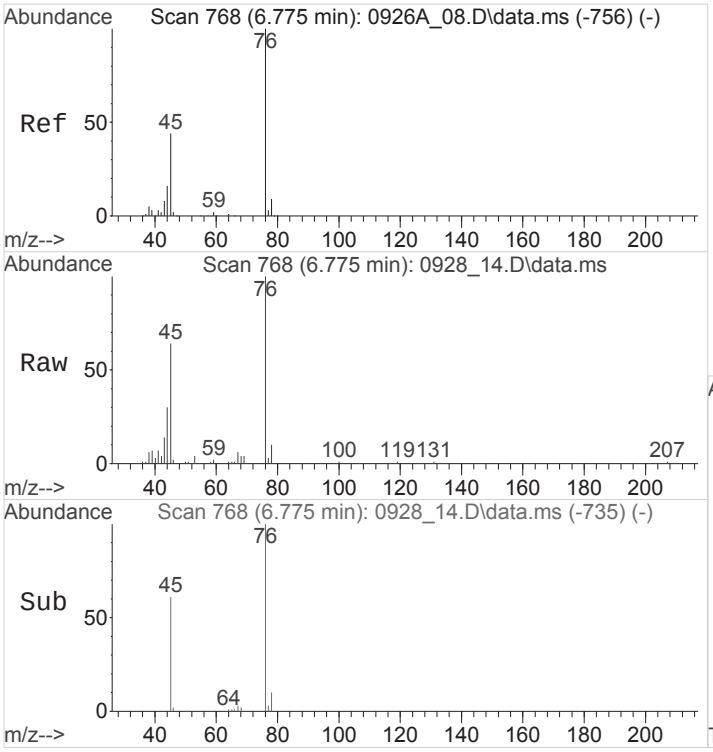


#18
2-Propanol
Concen: 1.5496959 ppbv
RT: 6.786 min Scan# 770
Delta R.T. 0.026 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 45 Resp: 287135

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

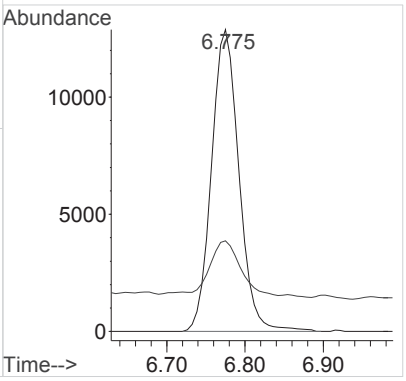


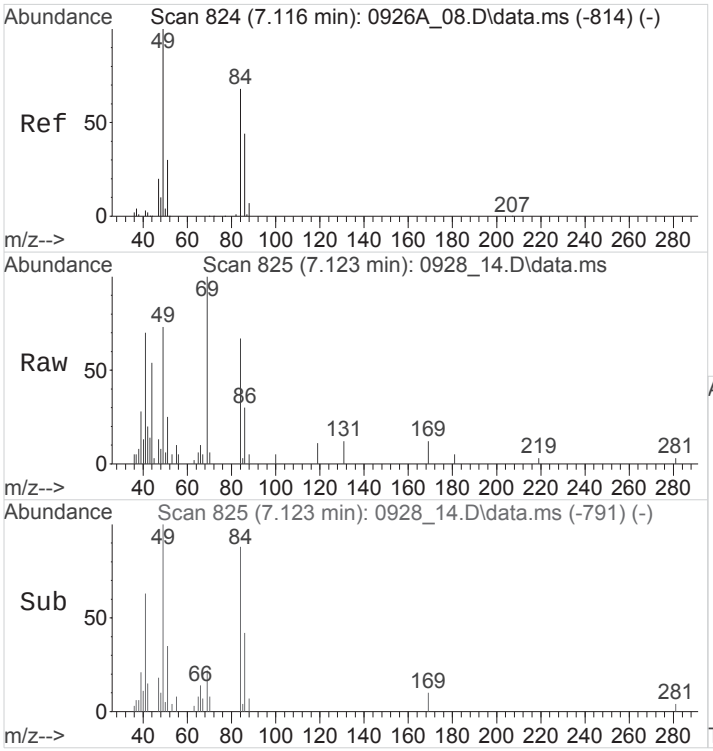


#19
Carbon Disulfide
Concen: 1.3191754 ppbv
RT: 6.777 min Scan# 768
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 76 Resp: 313557

Ion	Ratio	Lower	Upper
76	100		
44	20.7	14.2	21.2

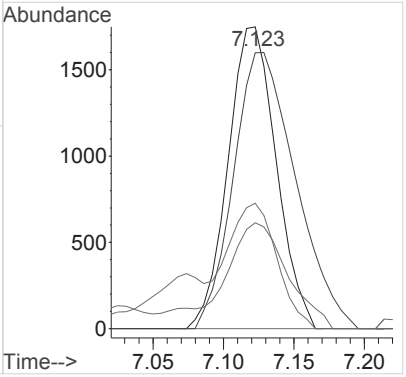


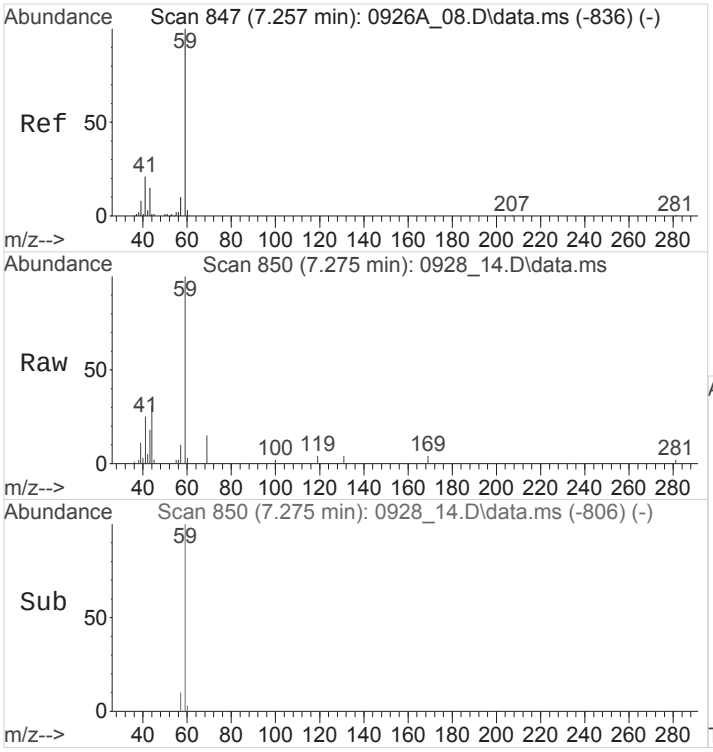


#21
Methylene Chloride
Concen: 0.3687356 ppbv
RT: 7.122 min Scan# 825
Delta R.T. 0.006 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 49 Resp: 41552

Ion	Ratio	Lower	Upper
49	100		
84	117.9	54.2	81.2#
86	0.0	35.1	52.7#
51	0.0	24.5	36.7#

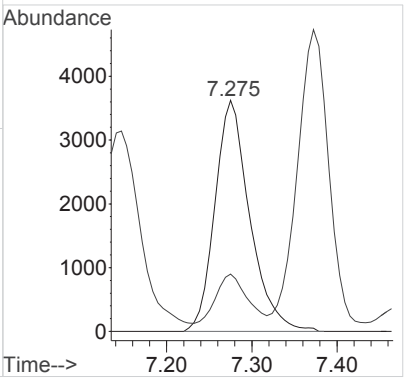


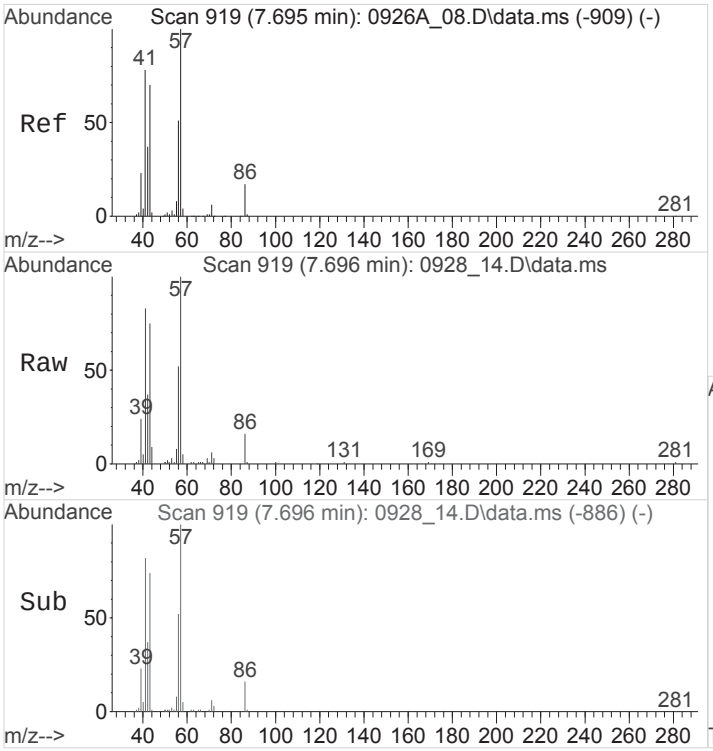


#22
TERT-BUTYL ALCOHOL
Concen: 0.5014095 ppbv
RT: 7.278 min Scan# 850
Delta R.T. 0.022 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 59 Resp: 103086

Ion	Ratio	Lower	Upper
59	100		
41	107.1	16.5	24.7#

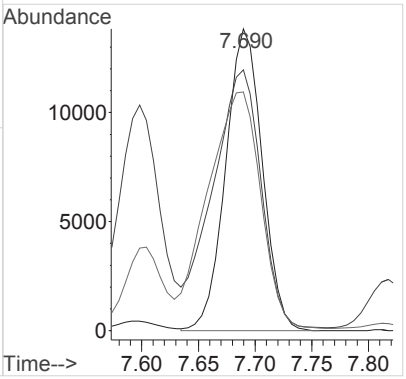


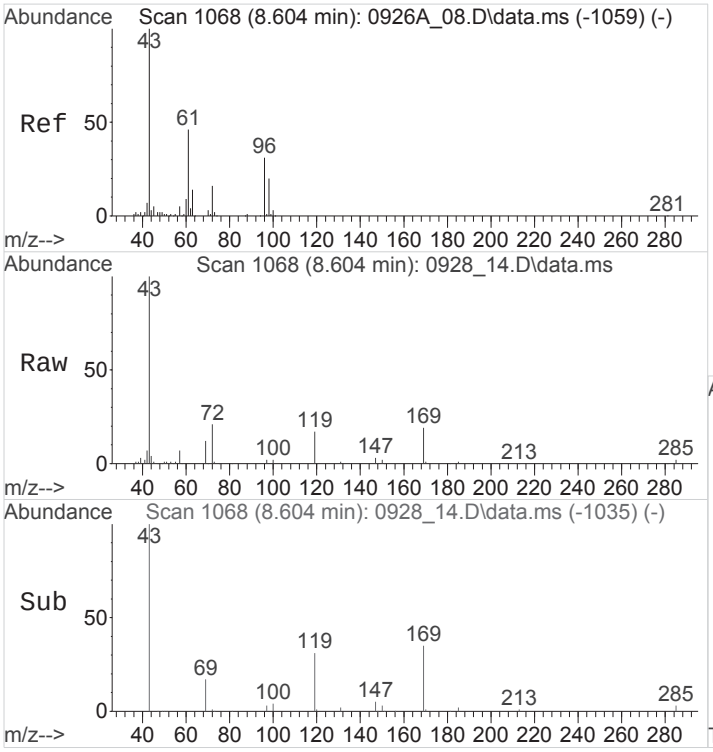


#25
n-Hexane
Concen: 2.1485107 ppbv
RT: 7.693 min Scan# 919
Delta R.T. 0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 57 Resp: 311531

Ion	Ratio	Lower	Upper
57	100		
41	112.5	63.2	94.8#
43	113.2	56.0	84.0#

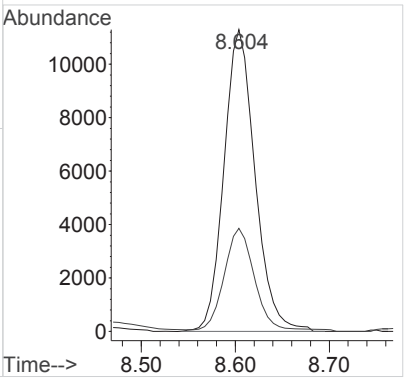


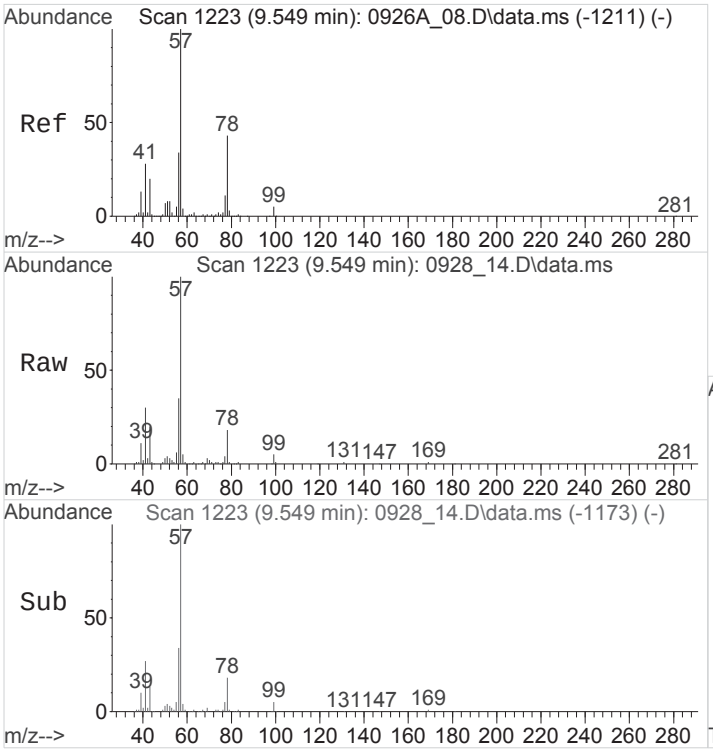


#29
2-Butanone (MEK)
Concen: 6.1339413 ppbv
RT: 8.606 min Scan# 1068
Delta R.T. 0.005 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 72 Resp: 260595

Ion	Ratio	Lower	Upper
72	100		
57	31.5	25.6	38.4

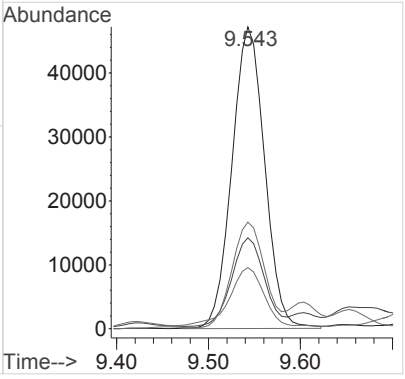


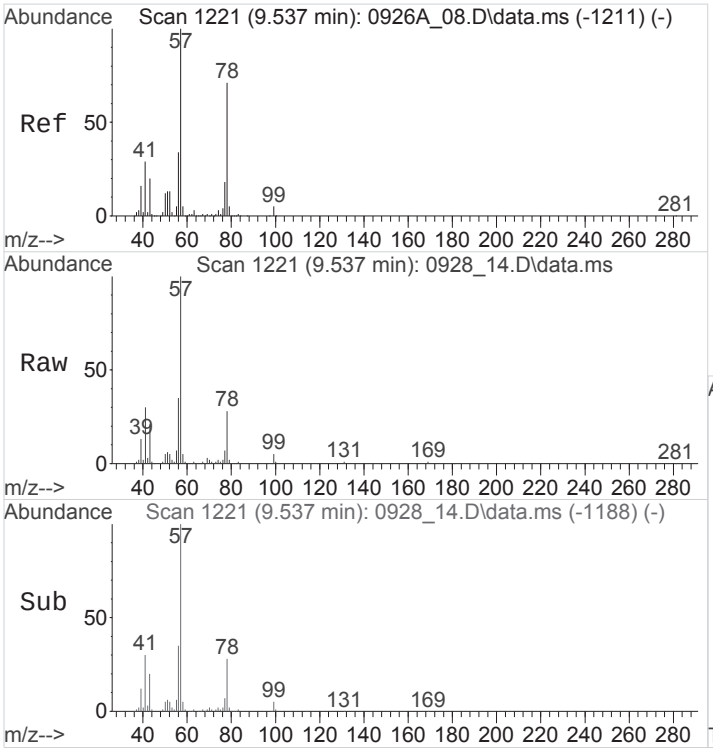


#36
2,2,4-Trimethylpentane
Concen: 2.4095578 ppbv
RT: 9.546 min Scan# 1223
Delta R.T. -0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 57 Resp: 1167543

Ion	Ratio	Lower	Upper
57	100		
41	29.2	22.7	34.1
43	19.9	16.6	25.0
56	23.0	27.2	40.8#

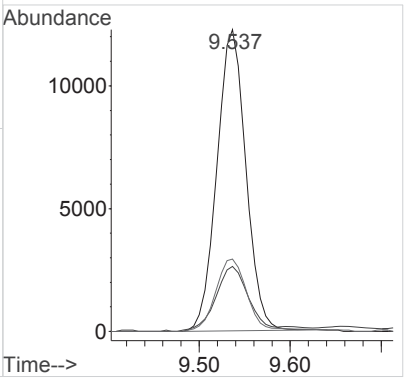


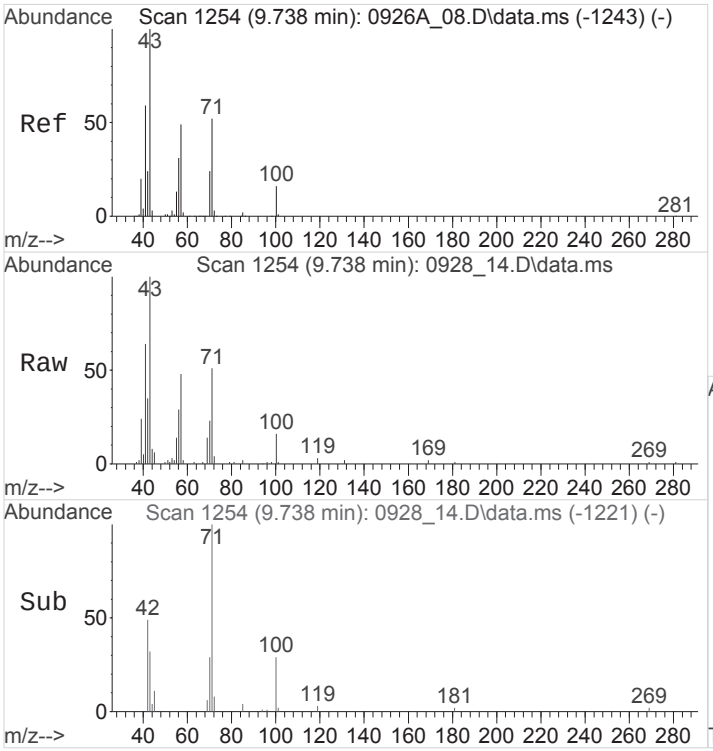


#38
Benzene
Concen: 0.9448298 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 78 Resp: 271310

Ion	Ratio	Lower	Upper
78	100		
51	23.4	15.4	23.0#
77	24.7	19.9	29.9

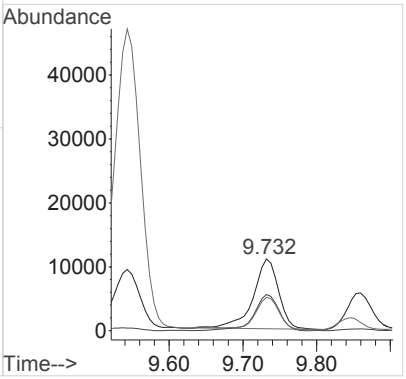


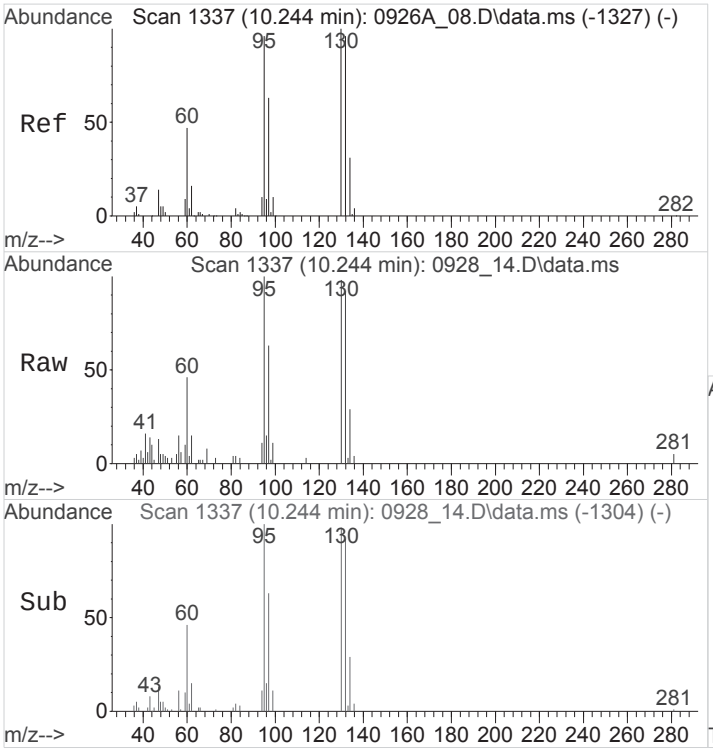


#40
Heptane
Concen: 1.3248529 ppbv
RT: 9.735 min Scan# 1254
Delta R.T. -0.002 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 43 Resp: 262708

Ion	Ratio	Lower	Upper
43	100		
71	51.0	41.4	62.0
57	0.0	39.3	58.9#

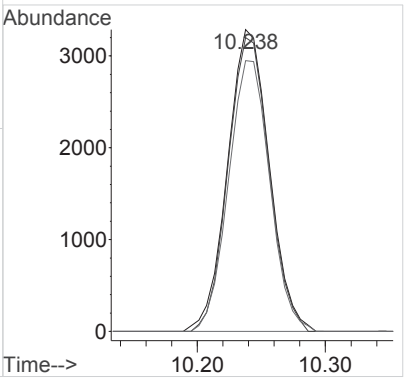


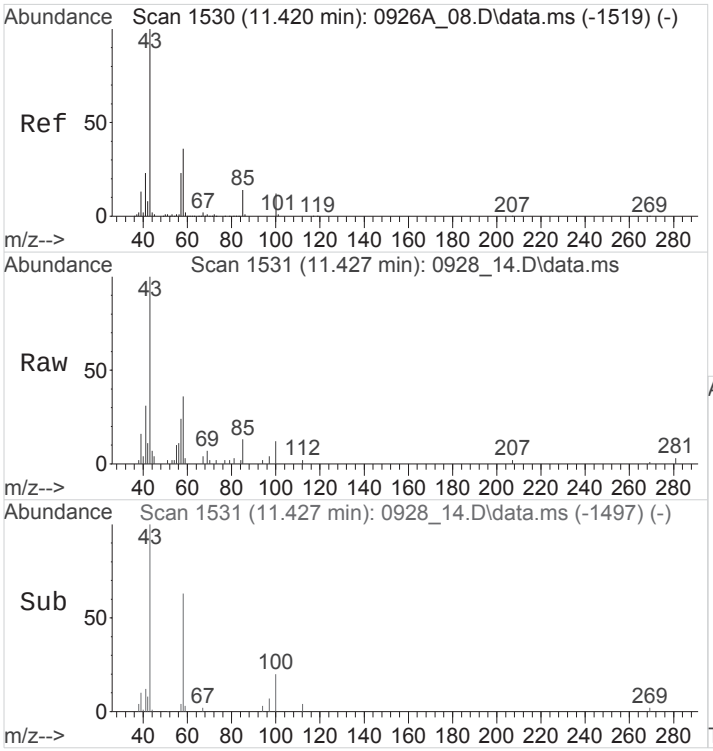


#41
Trichloroethene
Concen: 0.6652087 ppbv
RT: 10.242 min Scan# 1337
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 95 Resp: 74408

Ion	Ratio	Lower	Upper
95	100		
130	95.5	81.6	122.4
132	88.7	77.8	116.6

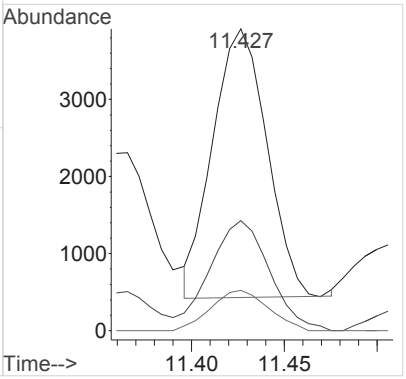


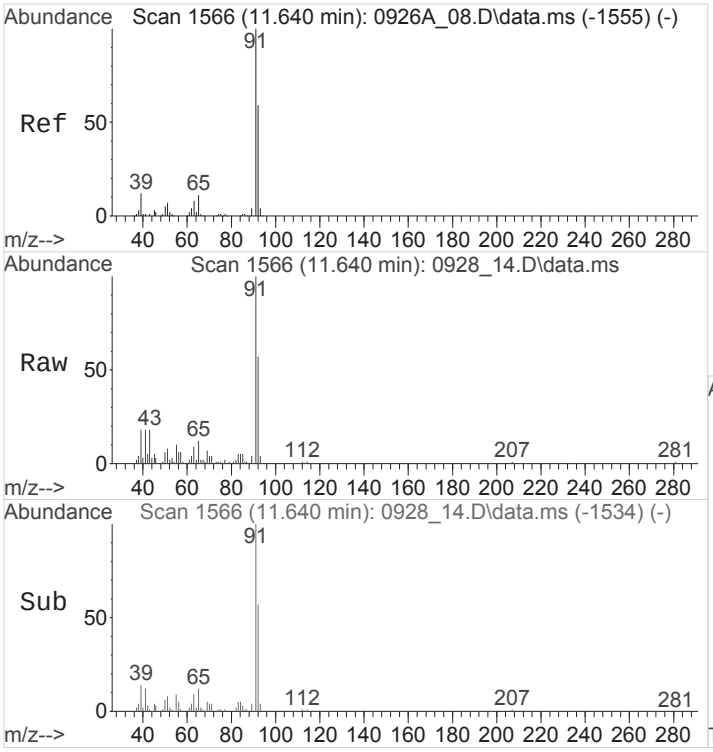


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.2810151 ppbv
RT: 11.429 min Scan# 1531
Delta R.T. 0.007 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 43 Resp: 72145

Ion	Ratio	Lower	Upper
43	100		
58	44.5	29.0	43.6#
85	0.0	11.0	16.6#

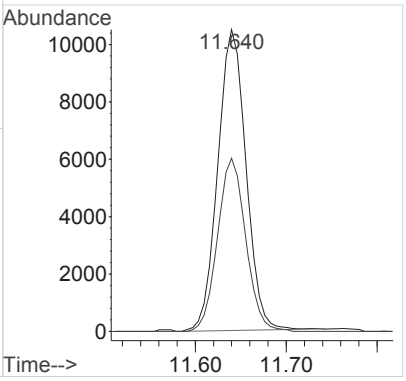


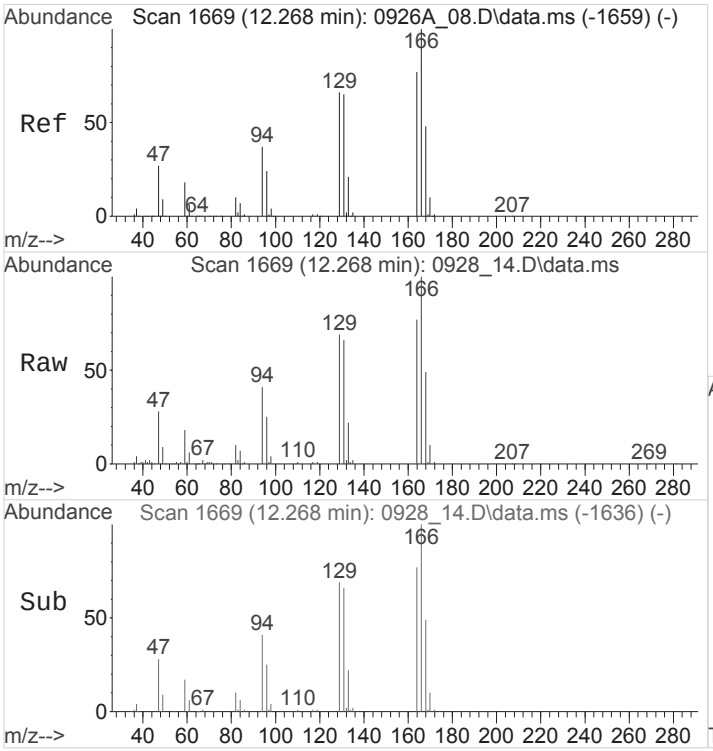


#50
Toluene
Concen: 0.6594677 ppbv
RT: 11.643 min Scan# 1566
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 225870

Ion	Ratio	Lower	Upper
91	100		
92	57.6	46.6	70.0

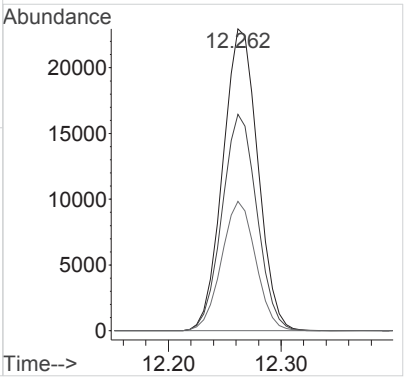


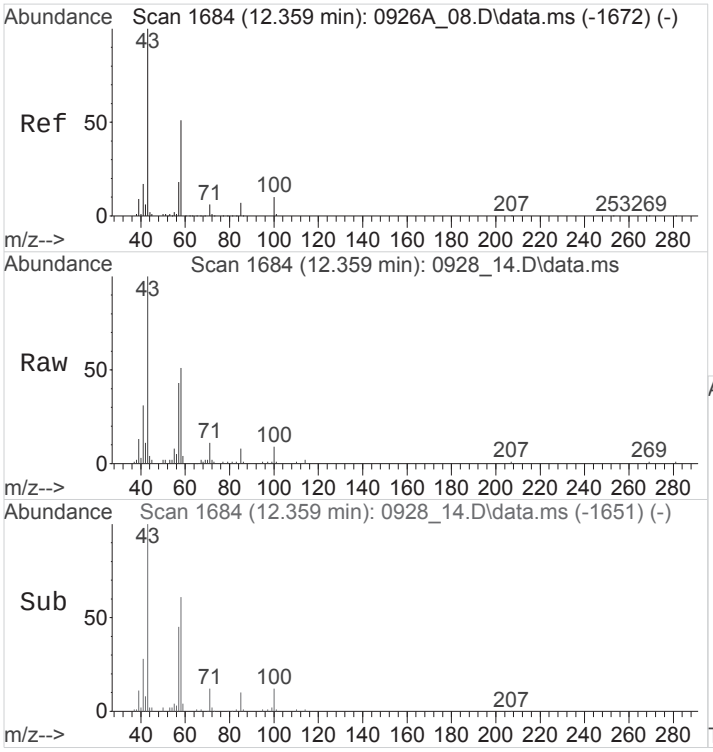


#53
Tetrachloroethene
Concen: 3.4250560 ppbv
RT: 12.267 min Scan# 1669
Delta R.T. 0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:166 Resp: 495029

Ion	Ratio	Lower	Upper
166	100		
129	71.2	55.0	82.6
94	41.8	31.3	46.9

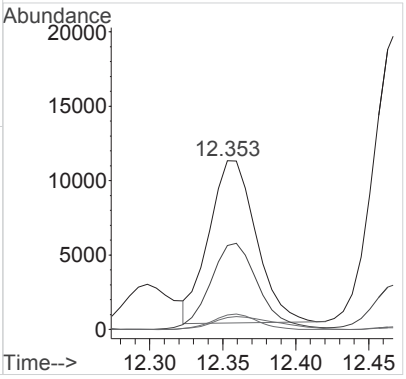


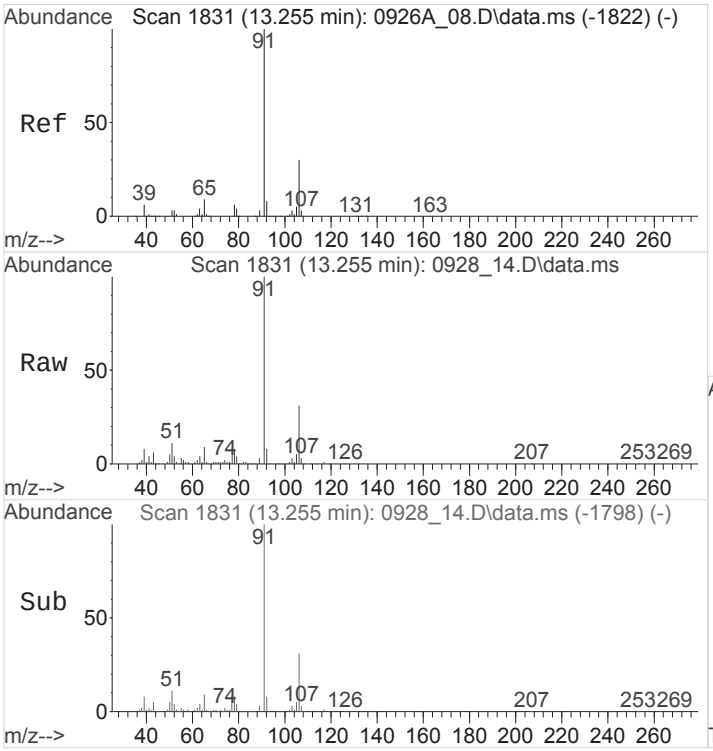


#54
Methyl Butyl Ketone
Concen: 1.2777356 ppbv
RT: 12.359 min Scan# 1684
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 43 Resp: 250464

Ion	Ratio	Lower	Upper
43	100		
58	52.2	41.0	61.4
85	10.4	5.6	8.4#
100	0.0	7.8	11.8#

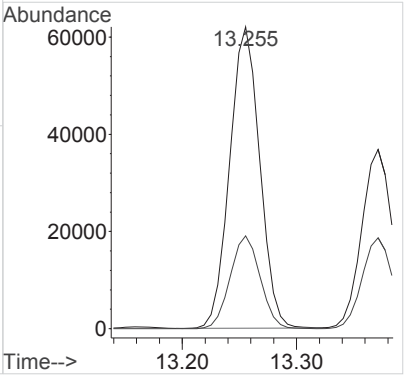


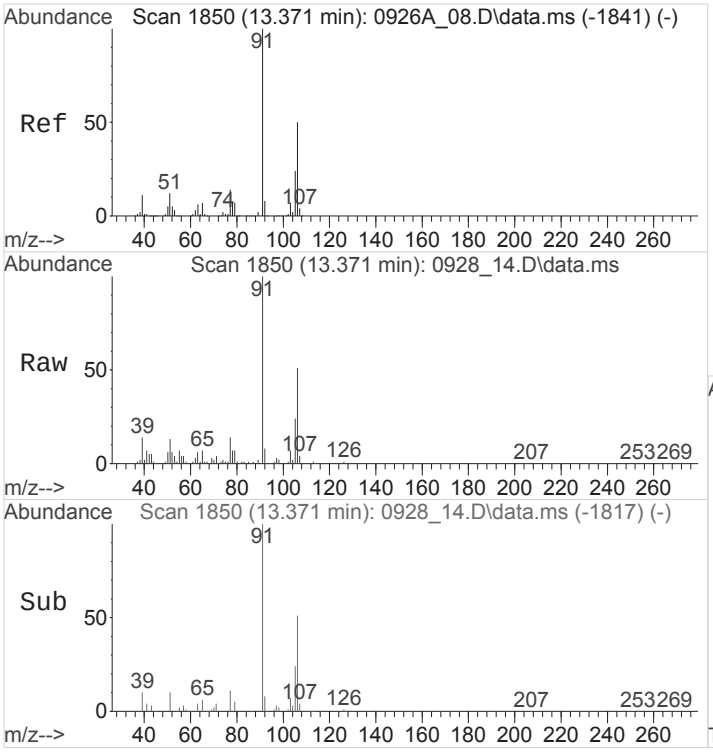


#59
Ethylbenzene
Concen: 2.8617284 ppbv
RT: 13.257 min Scan# 1831
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 1132489

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.3	36.5

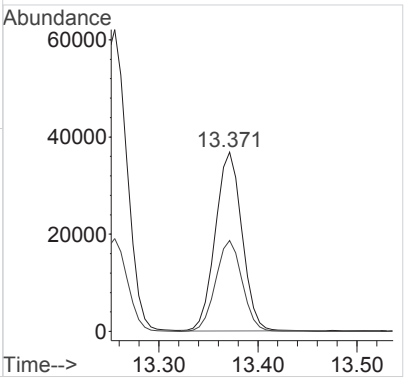


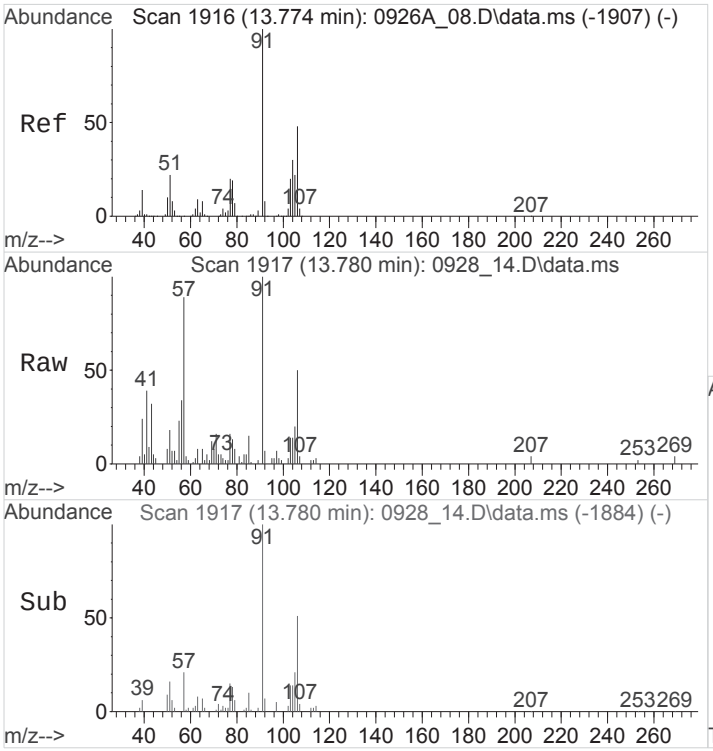


#60
M&P-Xylene
Concen: 2.3078161 ppbv
RT: 13.373 min Scan# 1850
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 690206

Ion	Ratio	Lower	Upper
91	100		
106	50.3	39.8	59.6

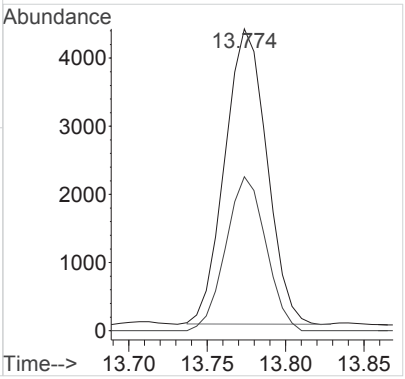


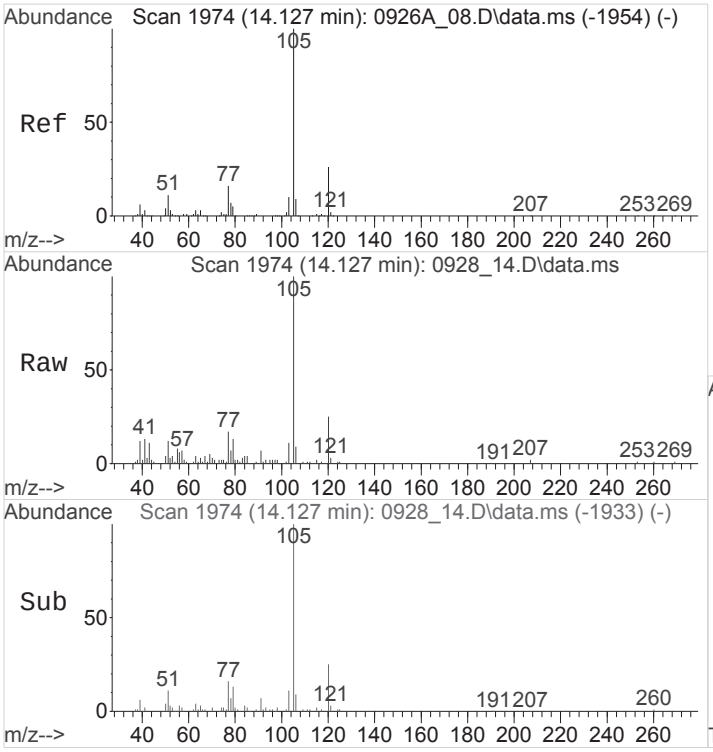


#61
O-Xylene
Concen: 0.2647075 ppbv
RT: 13.777 min Scan# 1917
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 80610

Ion	Ratio	Lower	Upper
91	100		
106	49.7	38.2	57.2

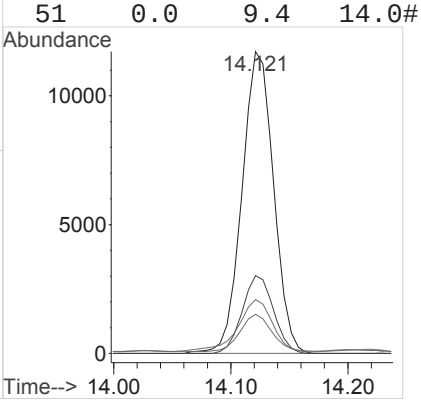


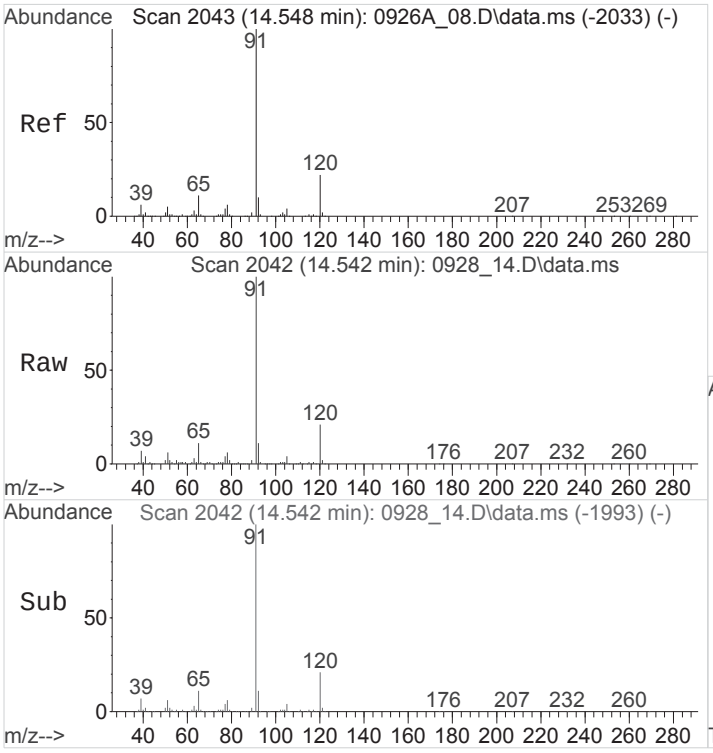


#64
Isopropylbenzene
Concen: 0.5252588 ppbv
RT: 14.126 min Scan# 1974
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 219843

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.7	31.1
77	18.3	13.0	19.4
51	0.0	9.4	14.0#

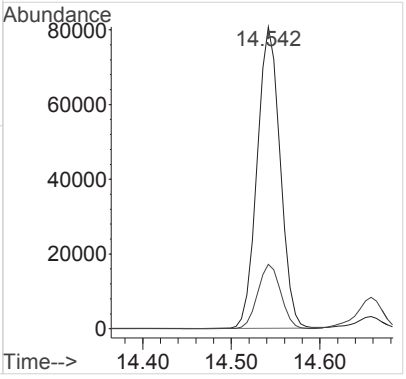


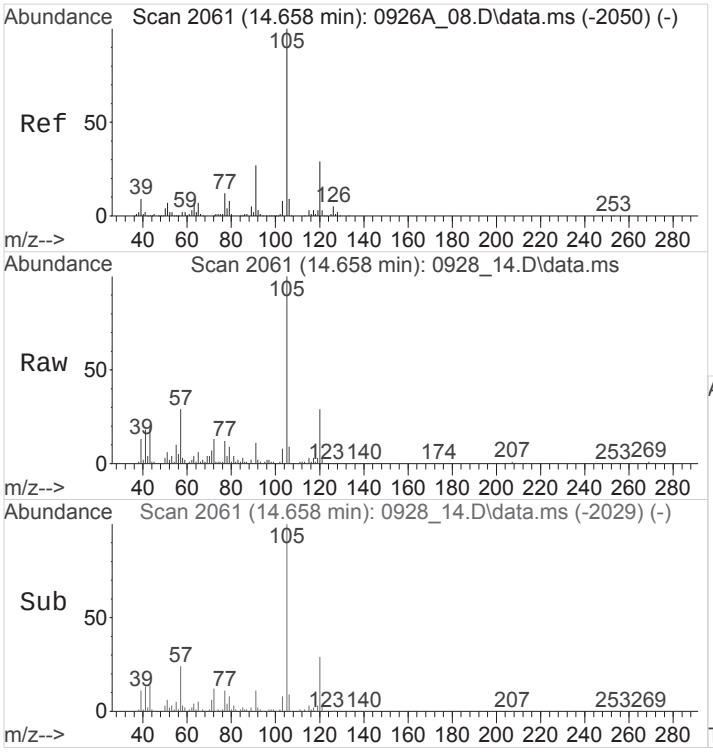


#66
n-Propylbenzene
Concen: 2.9213670 ppbv
RT: 14.545 min Scan# 2042
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 1450955

Ion	Ratio	Lower	Upper
91	100		
120	21.3	17.1	25.7

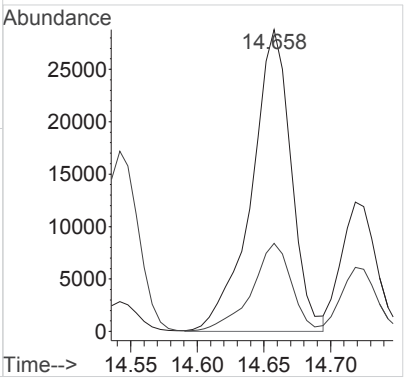


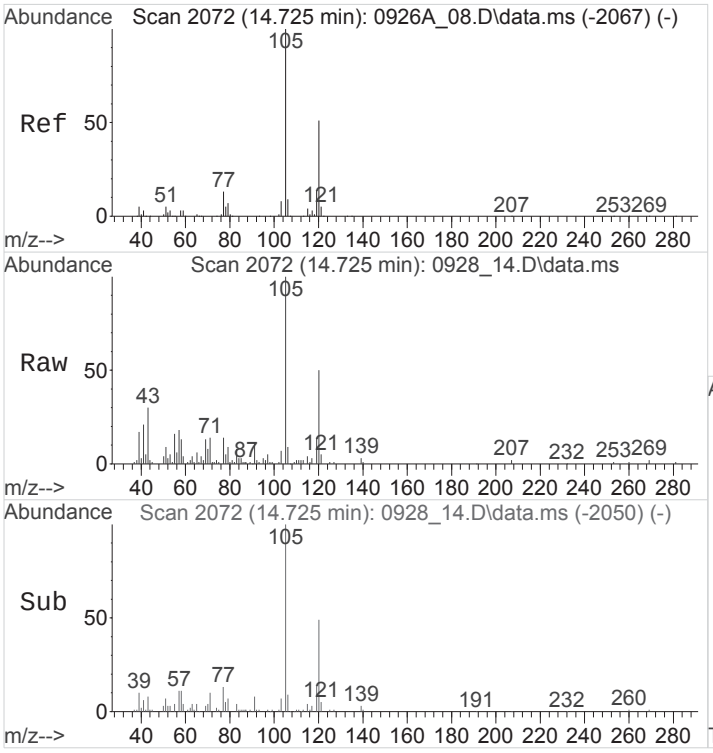


#67
4-Ethyltoluene
Concen: 1.4646475 ppbv
RT: 14.660 min Scan# 2061
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 593122

Ion	Ratio	Lower	Upper
105	100		
120	29.4	23.2	34.8

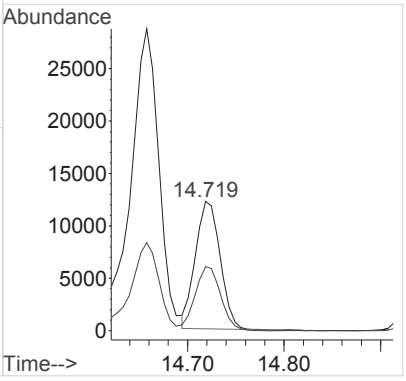


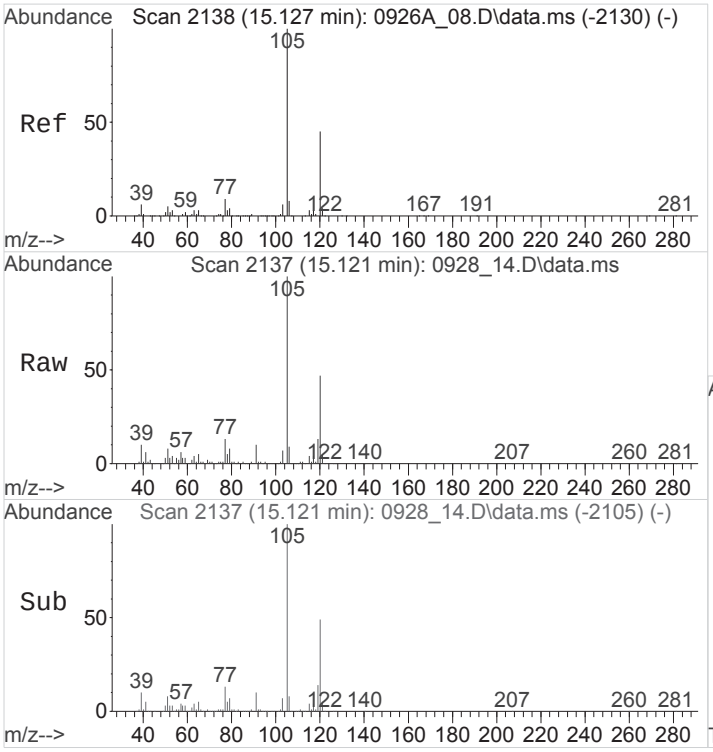


#70
1,3,5-Trimethylbenzene
Concen: 0.6459721 ppbv
RT: 14.723 min Scan# 2072
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 220741

Ion	Ratio	Lower	Upper
105	100		
120	48.6	40.2	60.4

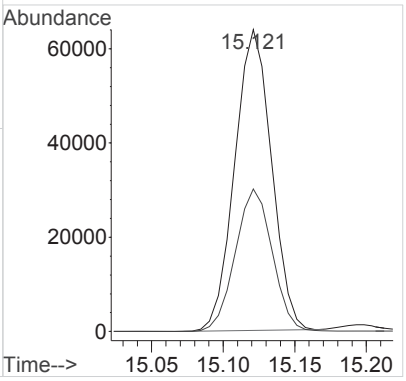


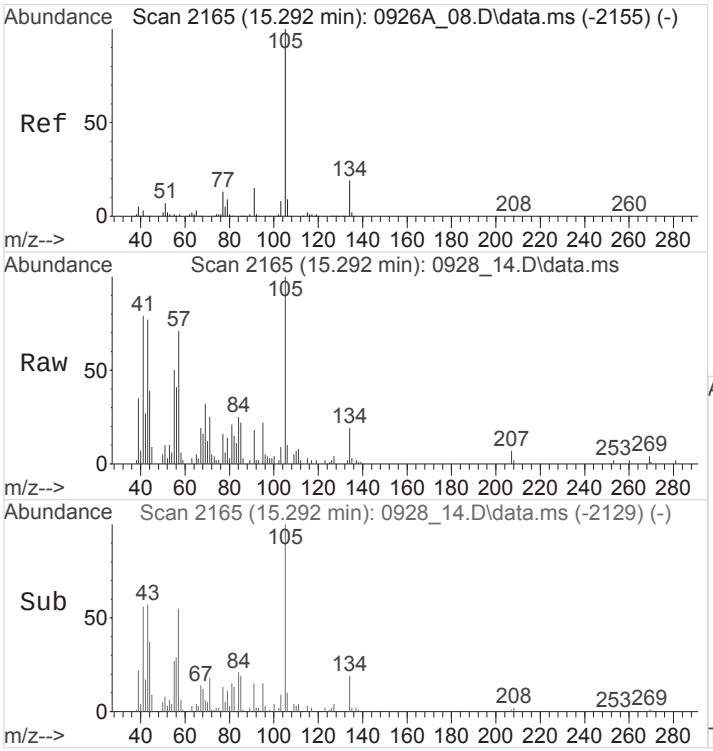


#72
1,2,4-Trimethylbenzene
Concen: 3.3765779 ppbv
RT: 15.124 min Scan# 2137
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 1138743

Ion	Ratio	Lower	Upper
105	100		
120	47.4	37.5	56.3

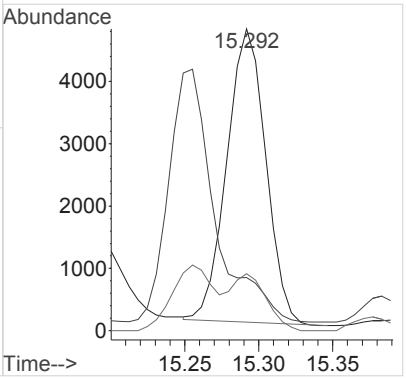


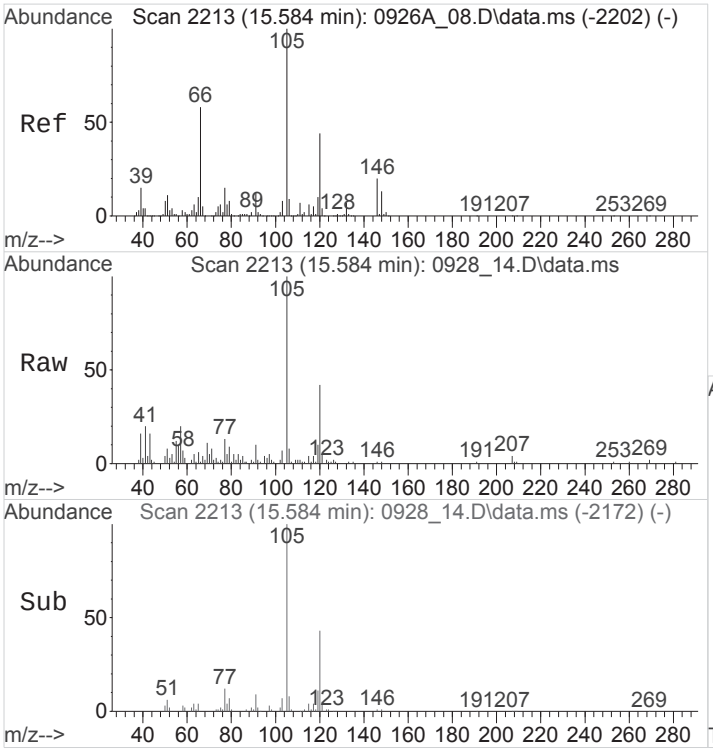


#73
sec-Butylbenzene
Concen: 0.1652250 ppbv
RT: 15.294 min Scan# 2165
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 86236

Ion	Ratio	Lower	Upper
105	100		
91	102.0	12.2	18.2#
134	0.0	15.1	22.7#

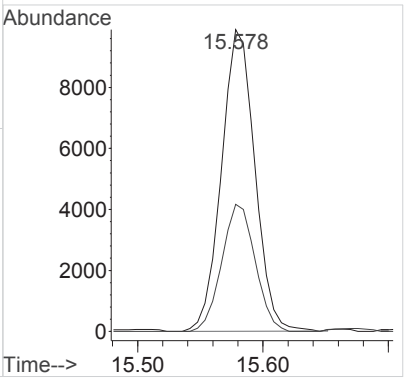


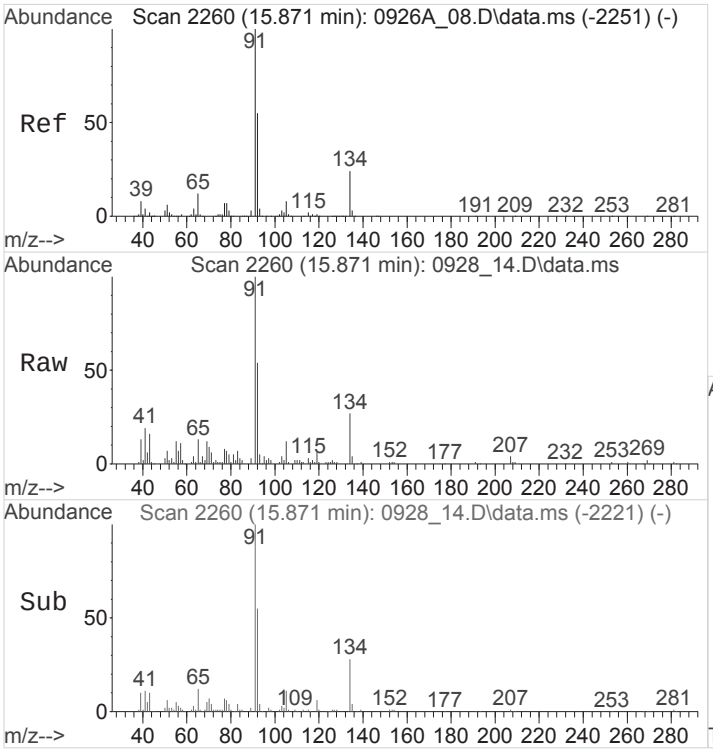


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.5330176 ppbv
RT: 15.583 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:105 Resp: 182394

Ion	Ratio	Lower	Upper
105	100		
120	42.2	34.6	52.0

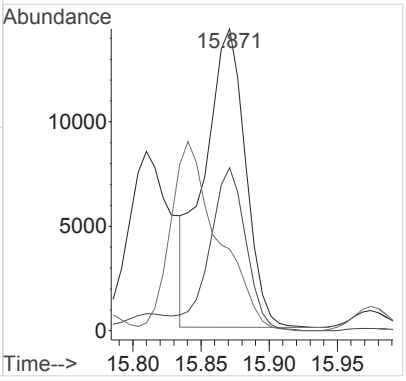


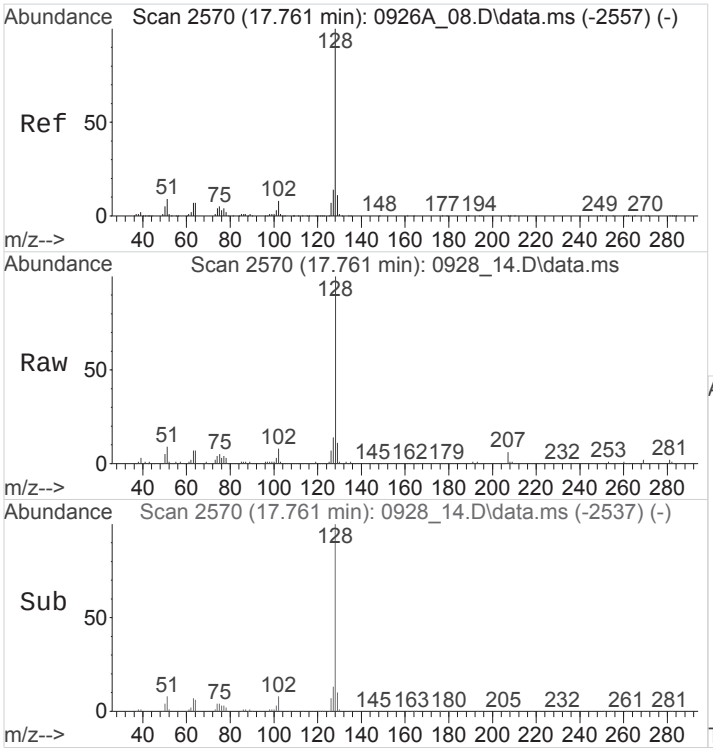


#79
n-Butylbenzene
Concen: 0.8175081 ppbv
RT: 15.872 min Scan# 2260
Delta R.T. -0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion: 91 Resp: 313783

Ion	Ratio	Lower	Upper
91	100		
92	55.4	43.8	65.8
134	70.8	19.4	29.0#

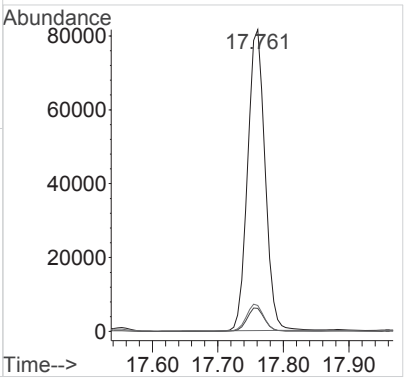


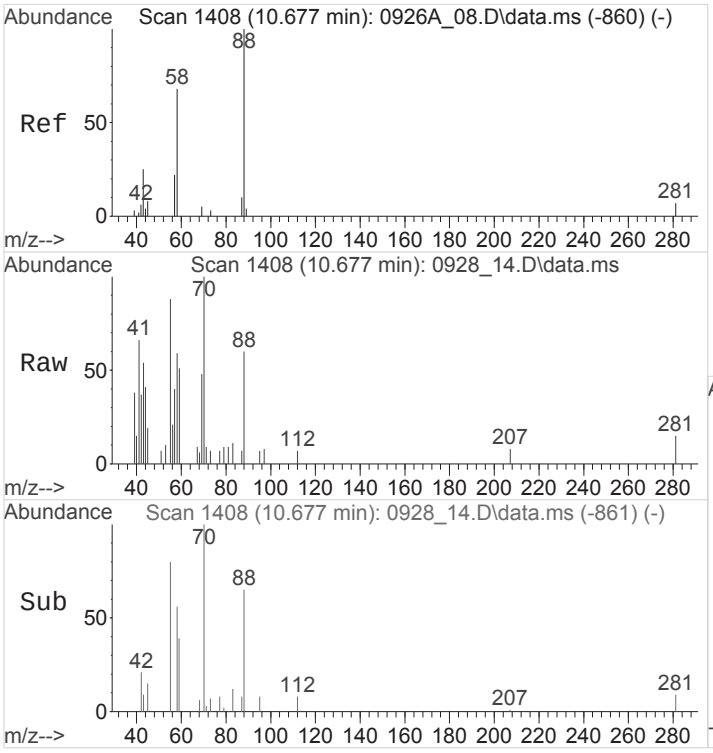


#83
Naphthalene
Concen: 8.3293321 ppbv
RT: 17.761 min Scan# 2570
Delta R.T. 0.001 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:128 Resp: 1498374

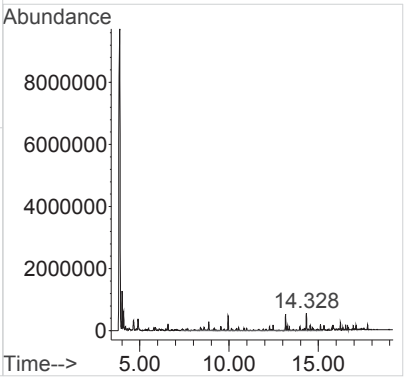
Ion	Ratio	Lower	Upper
128	100		
102	7.8	6.1	9.1
51	8.9	7.2	10.8





#84
TPH (GC/MS) Low Fraction
Concen: 145.4916860 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_14.D
Acq: 28 Sep 2016 4:46 pm

Tgt Ion:TIC Resp:102348000



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_15.D
Acq On : 28 Sep 2016 5:32 pm
Operator : 564
Sample : L861822-11 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 2
InstName : AIRMS2

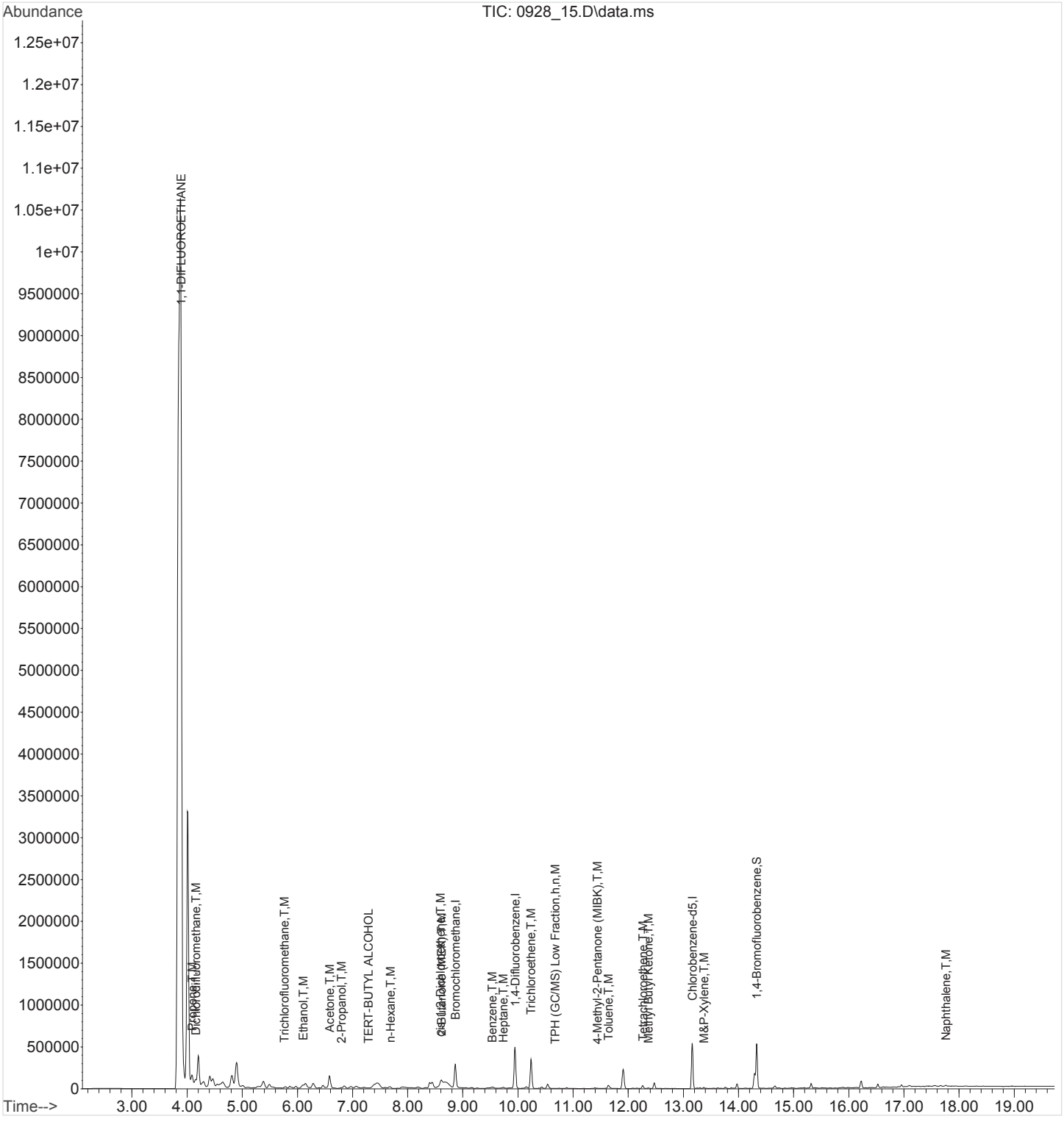
Quant Time: Sep 29 07:59:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

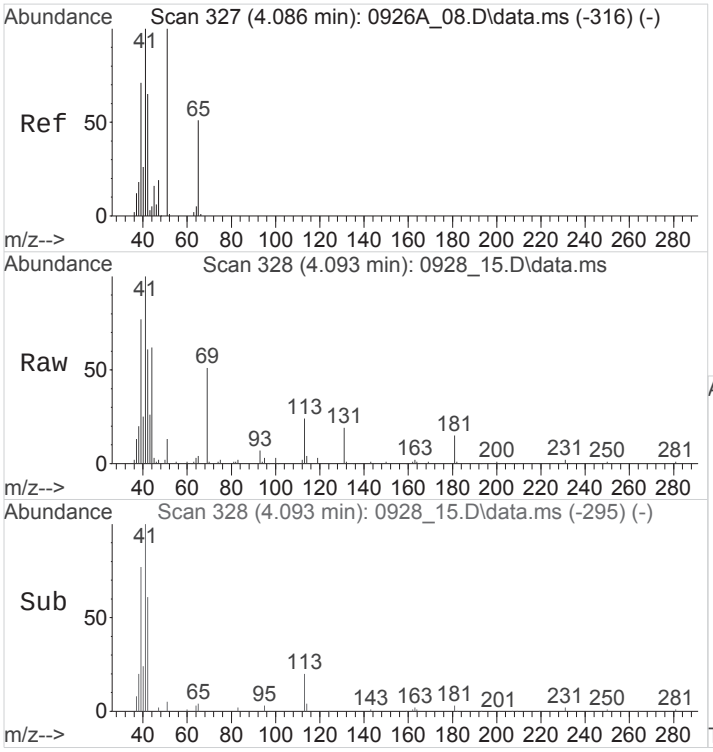
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.866	130	1083797	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.948	114	4438235	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3274851	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2015157	3.9607265	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.02%				
Target Compounds							Qvalue
2) Propene	4.092	41	672822	7.2168243	ppbv		94
3) 1,1-DIFLUOROETHANE	3.888	65	1012173	17.0606967	ppbv	#	1
4) Dichlorodifluoromethane	4.157	85	58869	0.3285044	ppbv		99
13) Trichlorofluoromethane	5.764	101	62096	0.3589914	ppbv		99
14) Ethanol	6.107	45	177733	11.3766423	ppbv		96
17) Acetone	6.584	43	2310682	8.2863793	ppbv		100
18) 2-Propanol	6.800	45	124136	0.6590682	ppbv	#	74
22) TERT-BUTYL ALCOHOL	7.287	59	94952	0.4543242	ppbv	#	56
25) n-Hexane	7.691	57	82485	0.5596063	ppbv	#	1
29) 2-Butanone (MEK)	8.615	72	92958	2.1524416	ppbv		91
30) cis-1,2-Dichloroethene	8.599	61	216600	1.4316711	ppbv	#	84
38) Benzene	9.539	78	58130	0.2009501	ppbv	#	37
40) Heptane	9.734	43	91550	0.4583079	ppbv	#	59
41) Trichloroethene	10.239	95	1358108	12.0525364	ppbv		96
49) 4-Methyl-2-Pentanone (...	11.440	43	36322	0.1404411	ppbv	#	46
50) Toluene	11.642	91	326308	0.9457262	ppbv		99
53) Tetrachloroethene	12.266	166	137366	0.9434485	ppbv		97
54) Methyl Butyl Ketone	12.367	43	62872	0.3183894	ppbv	#	86
59) Ethylbenzene	13.255	91	26053m	0.0660501	ppbv		
60) M&P-Xylene	13.371	91	66748	0.2239140	ppbv		98
83) Naphthalene	17.763	128	102595	0.5721857	ppbv	#	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	65942225m	94.0468961	ppbv		

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

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_15.D
Acq On : 28 Sep 2016 5:32 pm
Operator : 564
Sample : L861822-11 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 07:59:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

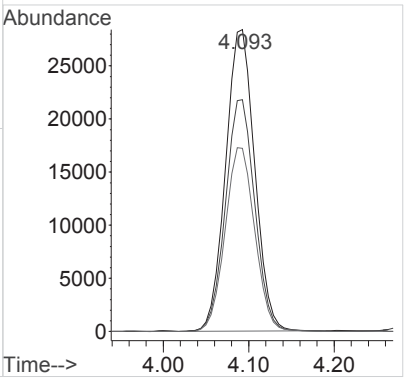


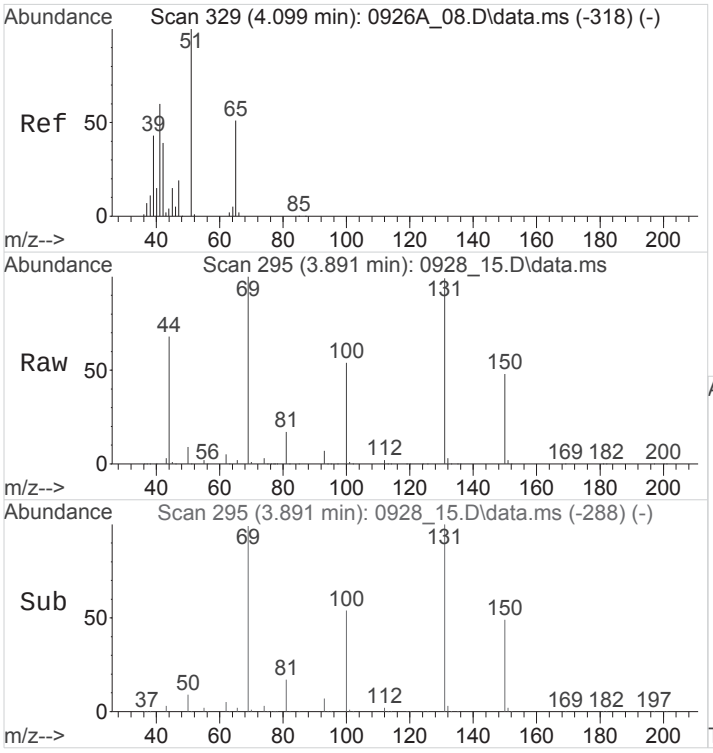


#2
Propene
Concen: 7.2168243 ppbv
RT: 4.092 min Scan# 328
Delta R.T. 0.004 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 41 Resp: 672822

Ion	Ratio	Lower	Upper
41	100		
39	77.4	56.5	84.7
42	61.9	52.2	78.4

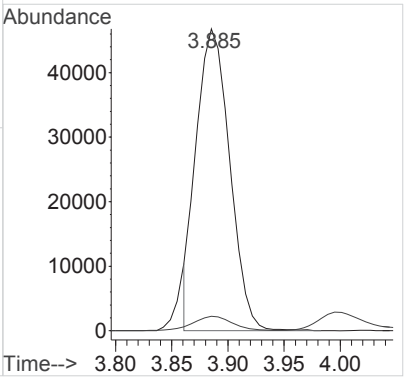


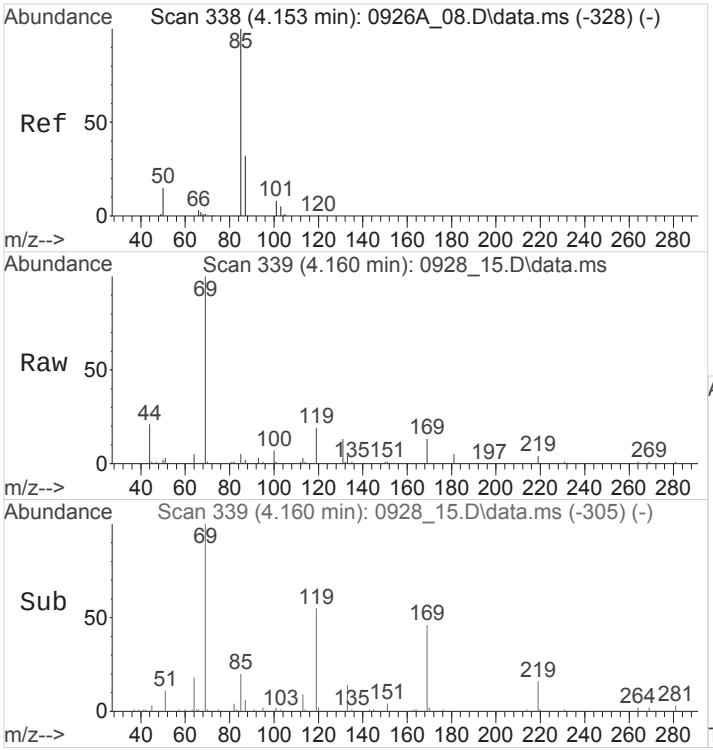


#3
1,1-DIFLUOROETHANE
Concen: 17.0606967 ppbv
RT: 3.888 min Scan# 295
Delta R.T. -0.210 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 65 Resp: 1012173

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

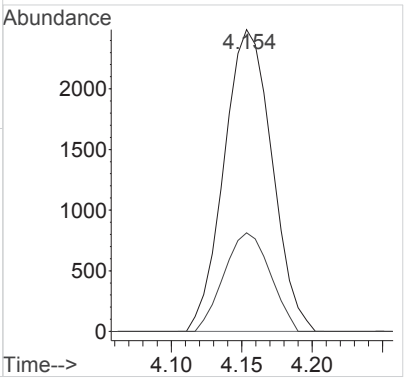


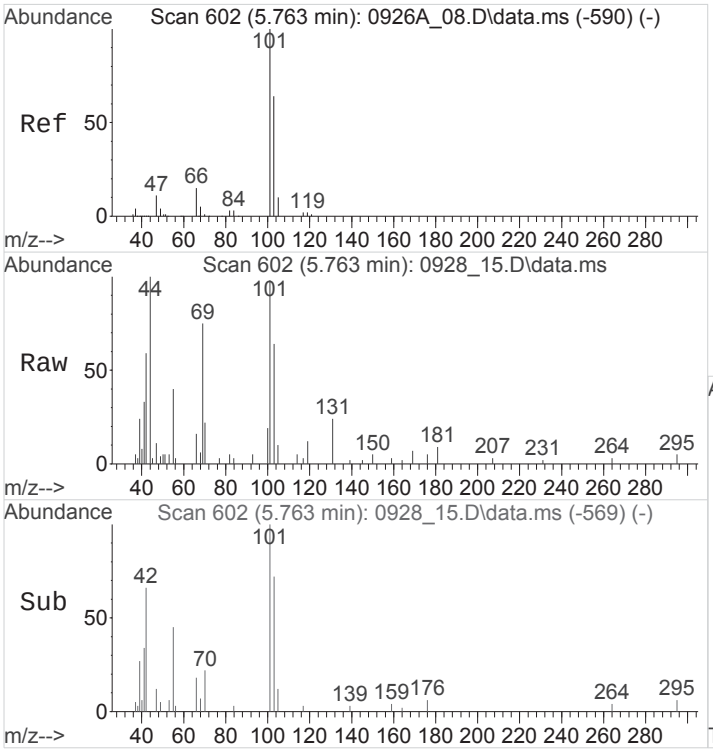


#4
Dichlorodifluoromethane
Concen: 0.3285044 ppbv
RT: 4.157 min Scan# 339
Delta R.T. 0.004 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 85 Resp: 58869

Ion	Ratio	Lower	Upper
85	100		
87	31.5	25.8	38.6

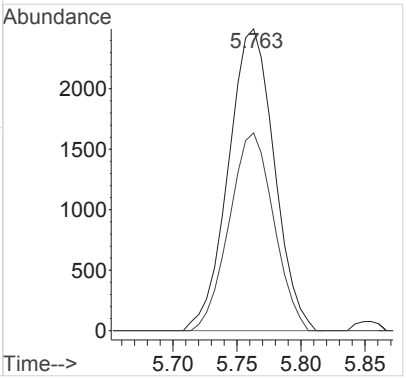


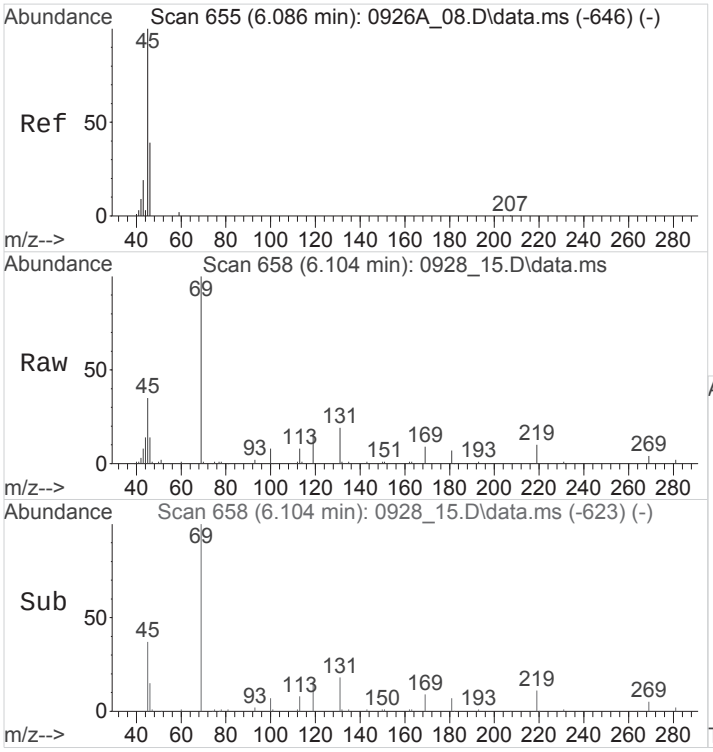


#13
Trichlorofluoromethane
Concen: 0.3589914 ppbv
RT: 5.764 min Scan# 602
Delta R.T. 0.003 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion:101 Resp: 62096

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.7	77.5

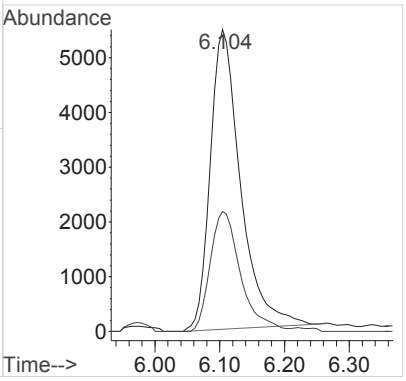


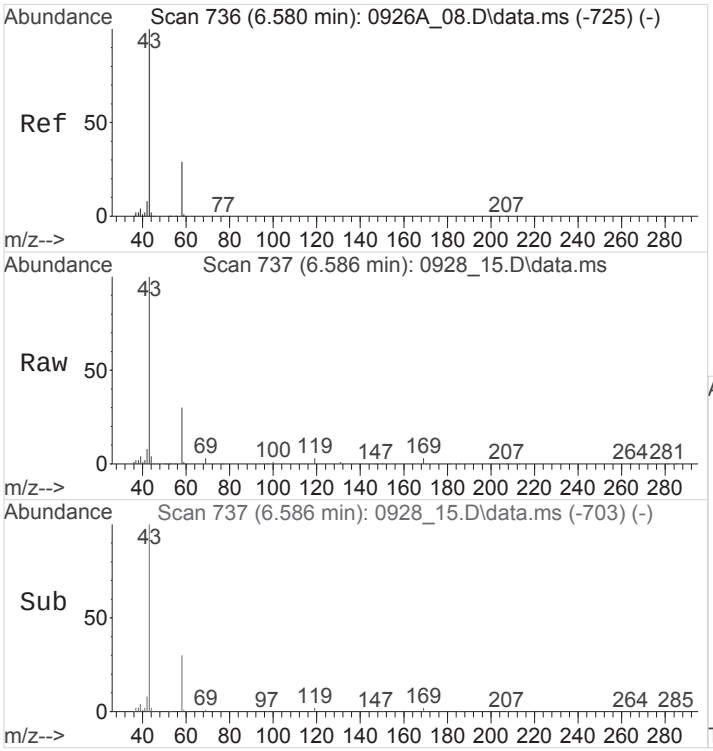


#14
Ethanol
Concen: 11.3766423 ppbv
RT: 6.107 min Scan# 658
Delta R.T. 0.019 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 45 Resp: 177733

Ion	Ratio	Lower	Upper
45	100		
46	38.7	33.0	49.4

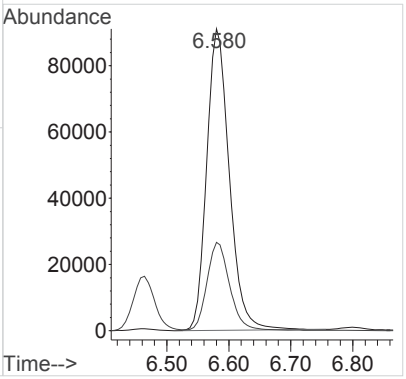


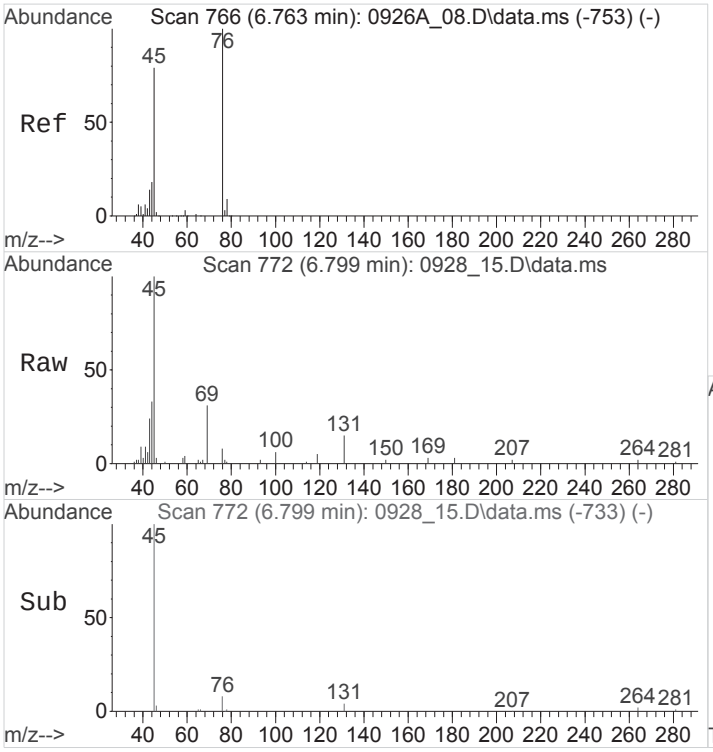


#17
Acetone
Concen: 8.2863793 ppbv
RT: 6.584 min Scan# 737
Delta R.T. 0.005 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 43 Resp: 2310682

Ion	Ratio	Lower	Upper
43	100		
58	29.0	23.1	34.7

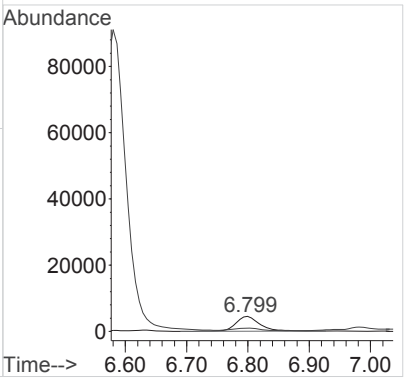


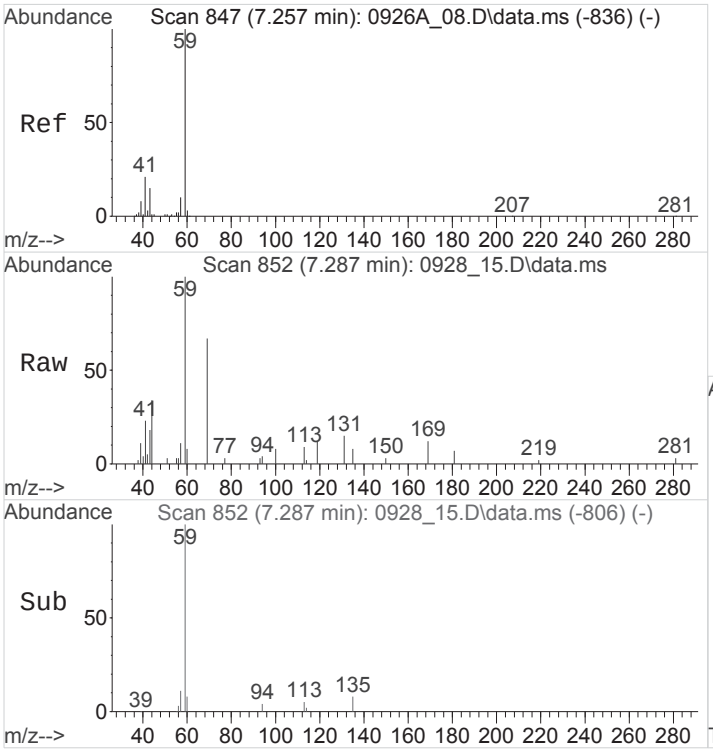


#18
2-Propanol
Concen: 0.6590682 ppbv
RT: 6.800 min Scan# 772
Delta R.T. 0.039 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 45 Resp: 124136

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

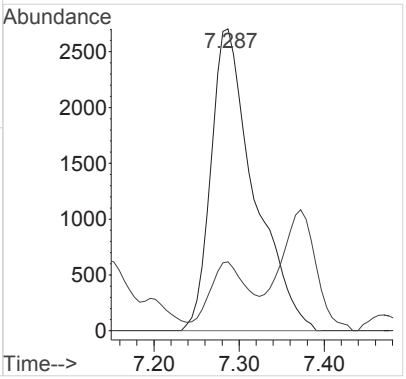


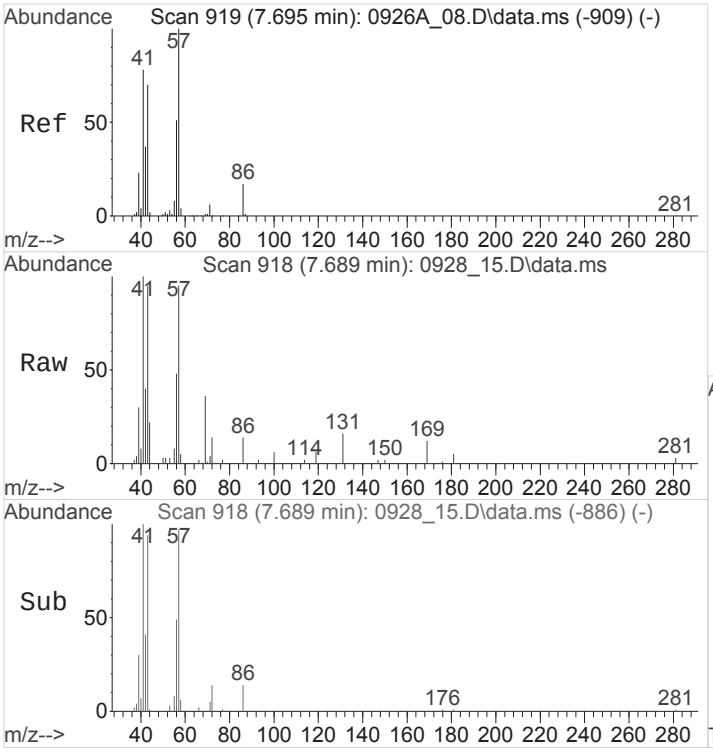


#22
TERT-BUTYL ALCOHOL
Concen: 0.4543242 ppbv
RT: 7.287 min Scan# 852
Delta R.T. 0.032 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 59 Resp: 94952

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

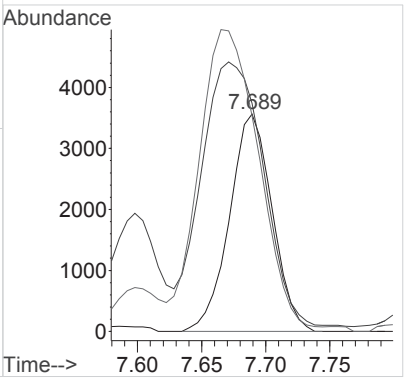


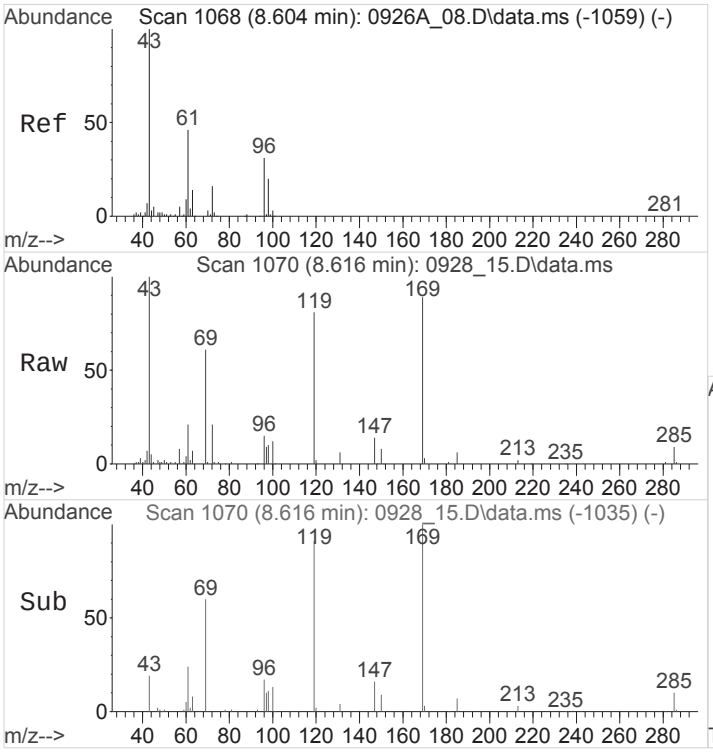


#25
n-Hexane
Concen: 0.5596063 ppbv
RT: 7.691 min Scan# 918
Delta R.T. -0.002 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 57 Resp: 82485

Ion	Ratio	Lower	Upper
57	100		
41	180.2	63.2	94.8#
43	196.7	56.0	84.0#

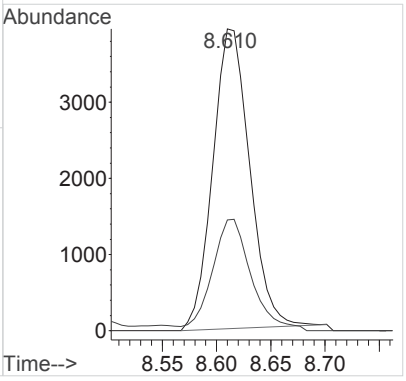


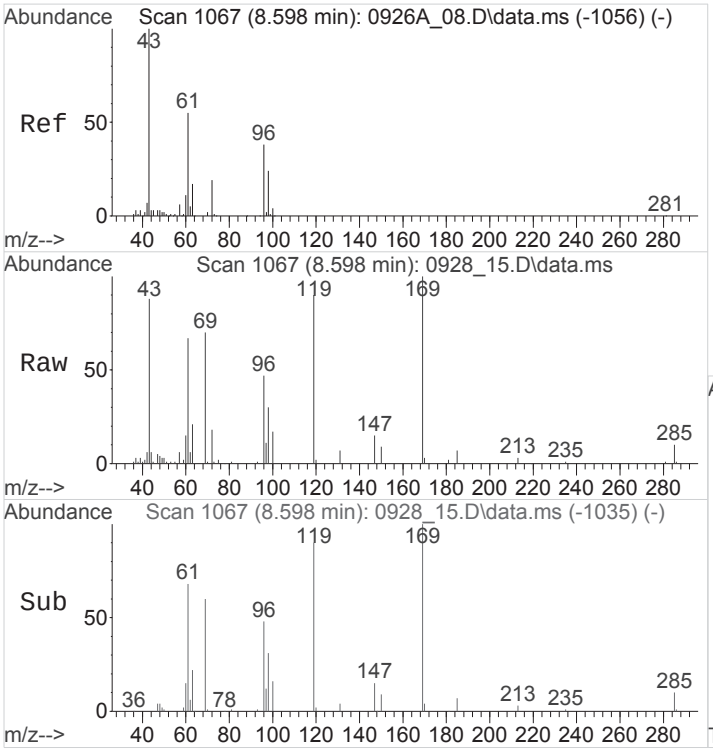


#29
2-Butanone (MEK)
Concen: 2.1524416 ppbv
RT: 8.615 min Scan# 1070
Delta R.T. 0.014 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 72 Resp: 92958

Ion	Ratio	Lower	Upper
72	100		
57	37.2	25.6	38.4

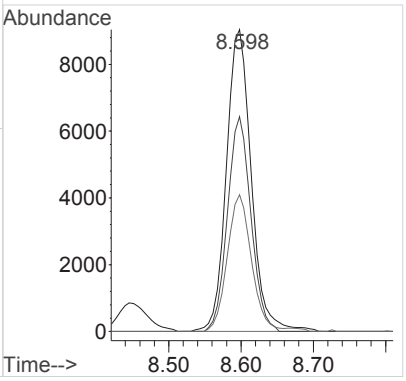


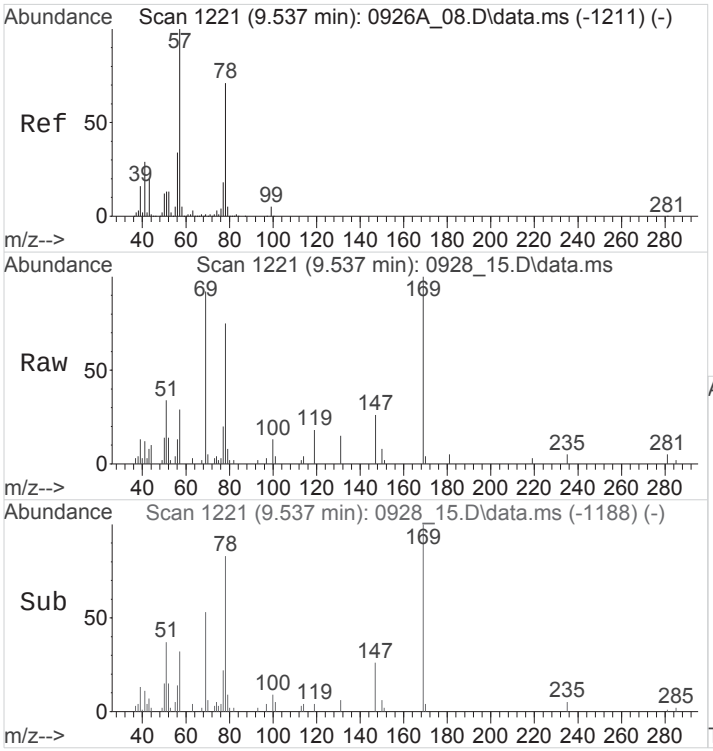


#30
cis-1,2-Dichloroethene
Concen: 1.4316711 ppbv
RT: 8.599 min Scan# 1067
Delta R.T. -0.002 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 61 Resp: 216600

Ion	Ratio	Lower	Upper
61	100		
96	67.0	43.5	65.3#
98	42.9	27.8	41.8#

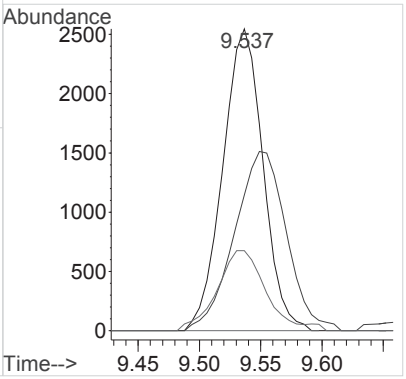


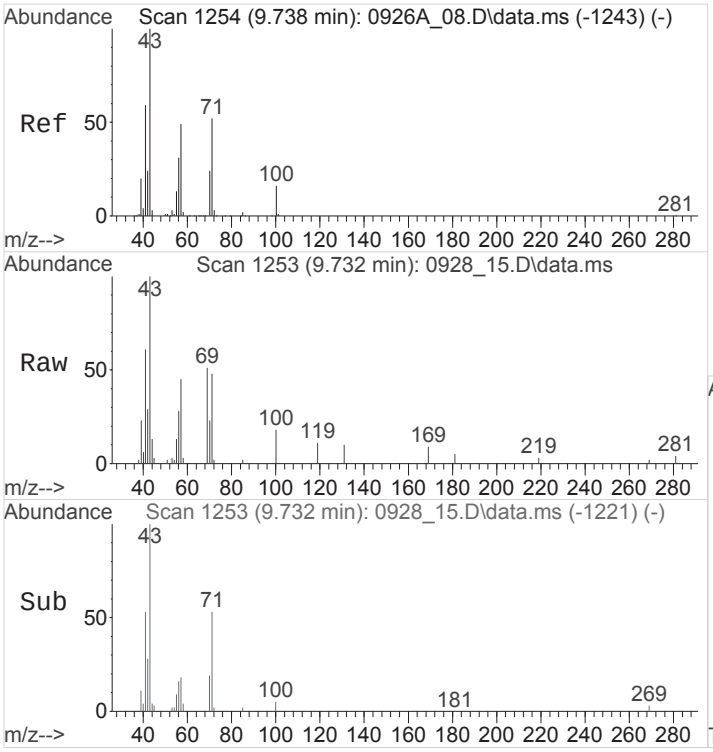


#38
Benzene
Concen: 0.2009501 ppbv
RT: 9.539 min Scan# 1221
Delta R.T. 0.001 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 78 Resp: 58130

Ion	Ratio	Lower	Upper
78	100		
51	76.5	15.4	23.0#
77	32.2	19.9	29.9#

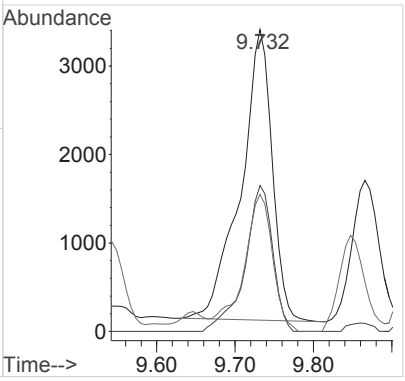


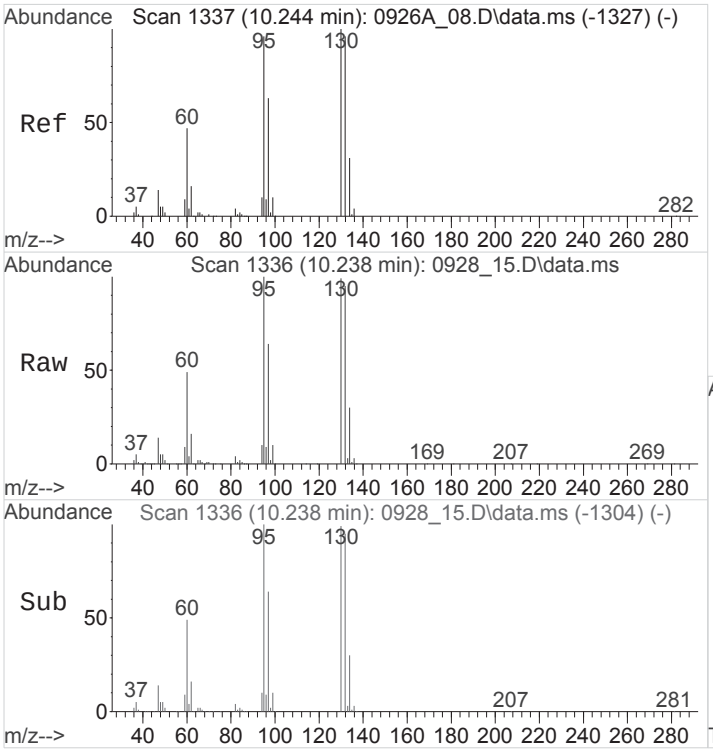


#40
Heptane
Concen: 0.4583079 ppbv
RT: 9.734 min Scan# 1253
Delta R.T. -0.003 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 43 Resp: 91550

Ion	Ratio	Lower	Upper
43	100		
71	44.2	41.4	62.0
57	0.0	39.3	58.9#

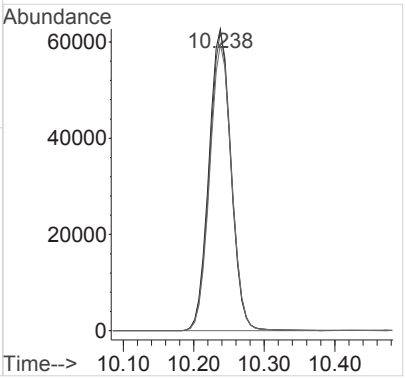


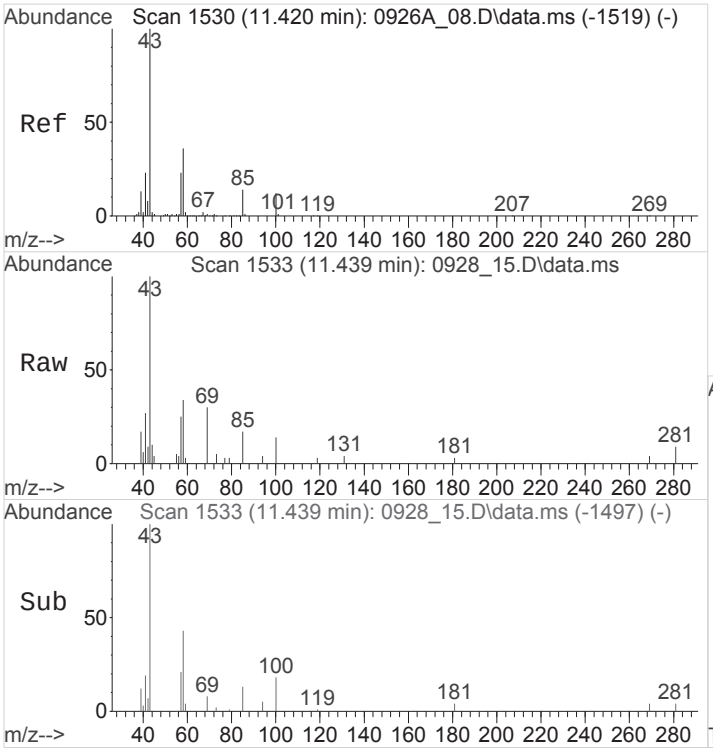


#41
Trichloroethene
Concen: 12.0525364 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.002 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 95 Resp: 1358108

Ion	Ratio	Lower	Upper
95	100		
130	97.9	81.6	122.4
132	93.9	77.8	116.6

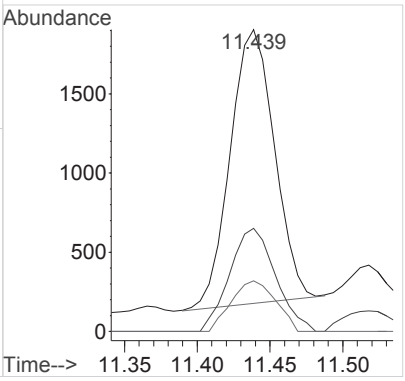


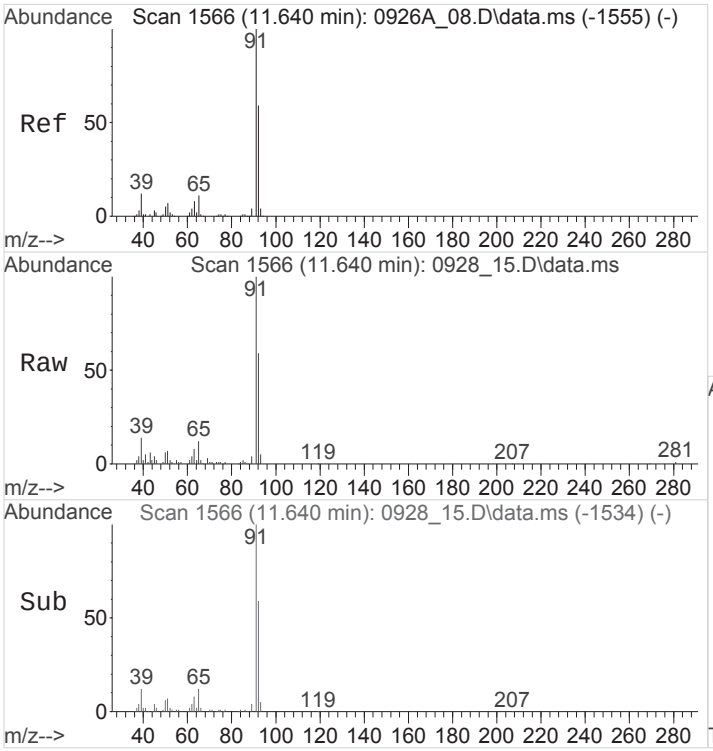


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1404411 ppbv
RT: 11.440 min Scan# 1533
Delta R.T. 0.018 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 43 Resp: 36322

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.6#
85	0.0	11.0	16.6#

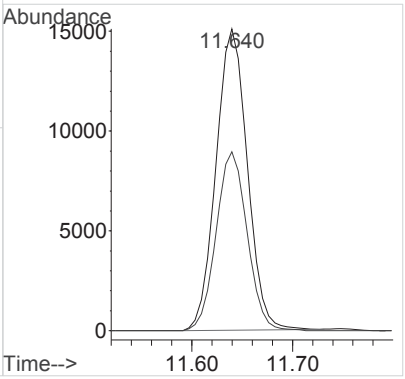


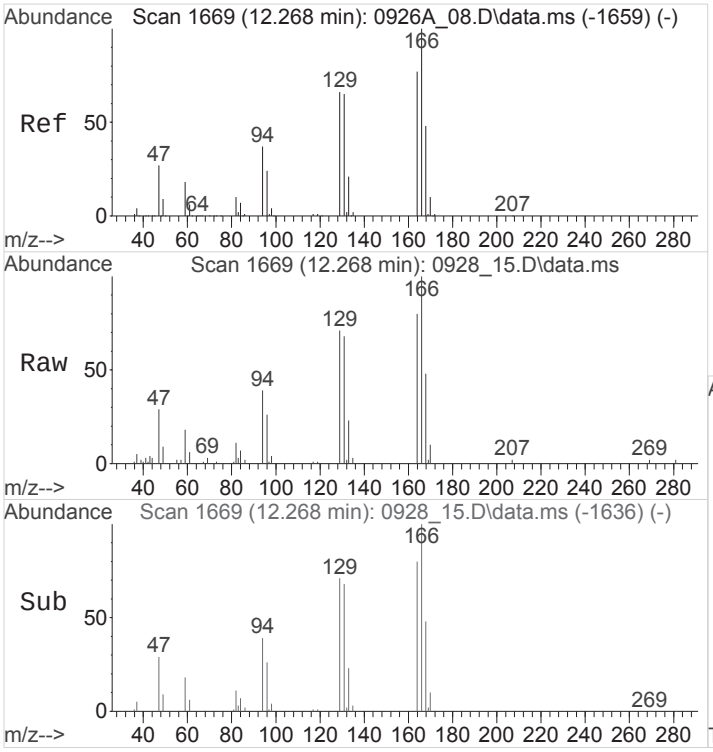


#50
Toluene
Concen: 0.9457262 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 91 Resp: 326308

Ion	Ratio	Lower	Upper
91	100		
92	58.8	46.6	70.0

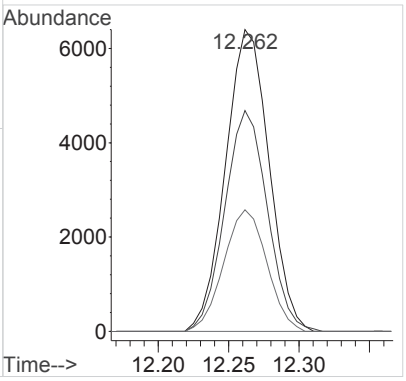


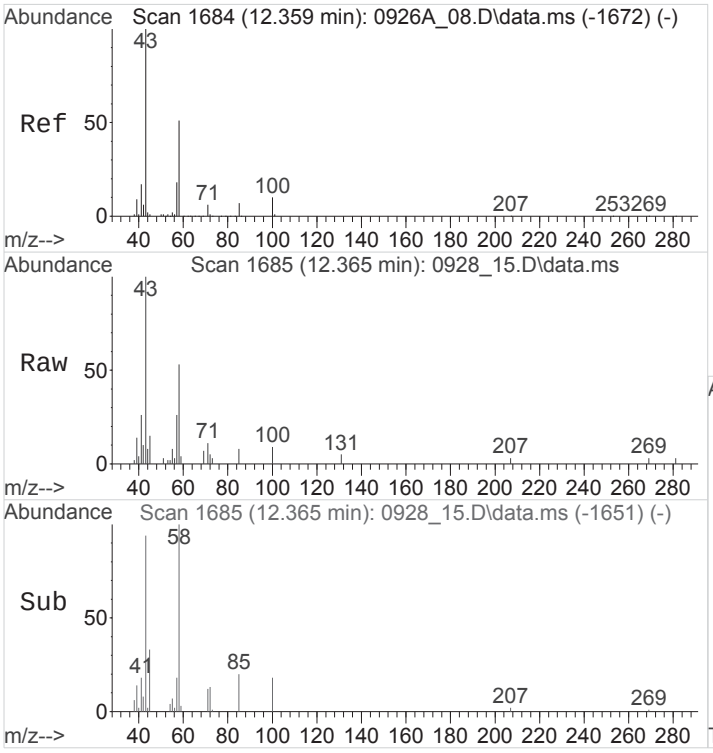


#53
Tetrachloroethene
Concen: 0.9434485 ppbv
RT: 12.266 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion:166 Resp: 137366

Ion	Ratio	Lower	Upper
166	100		
129	71.7	55.0	82.6
94	40.1	31.3	46.9

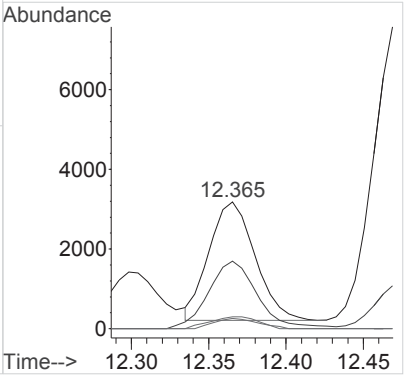


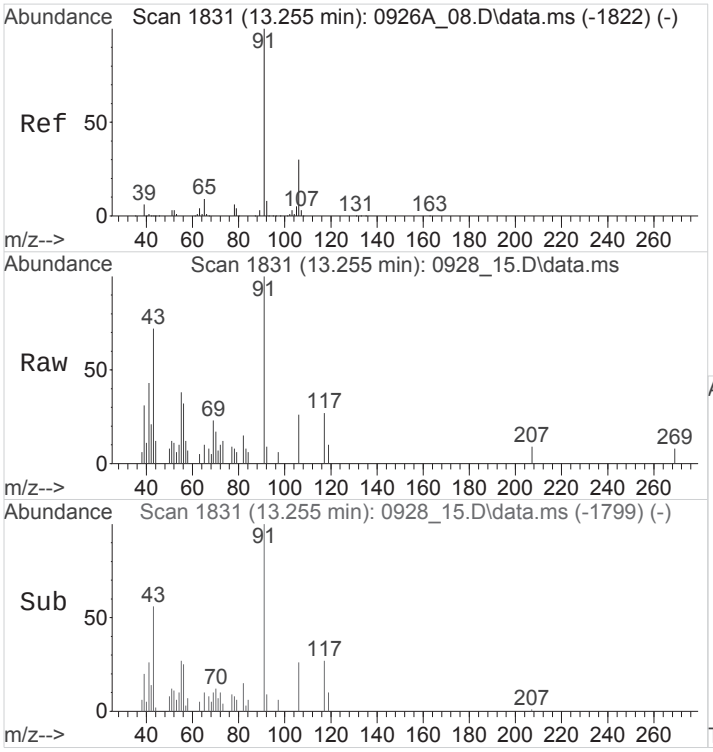


#54
Methyl Butyl Ketone
Concen: 0.3183894 ppbv
RT: 12.367 min Scan# 1685
Delta R.T. 0.009 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 43 Resp: 62872

Ion	Ratio	Lower	Upper
43	100		
58	58.9	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

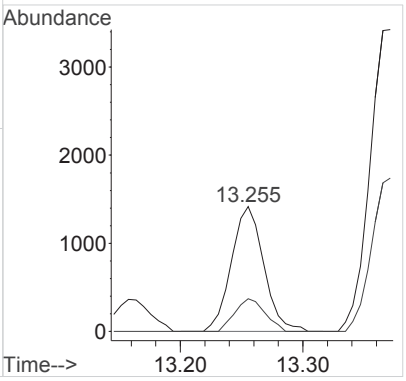


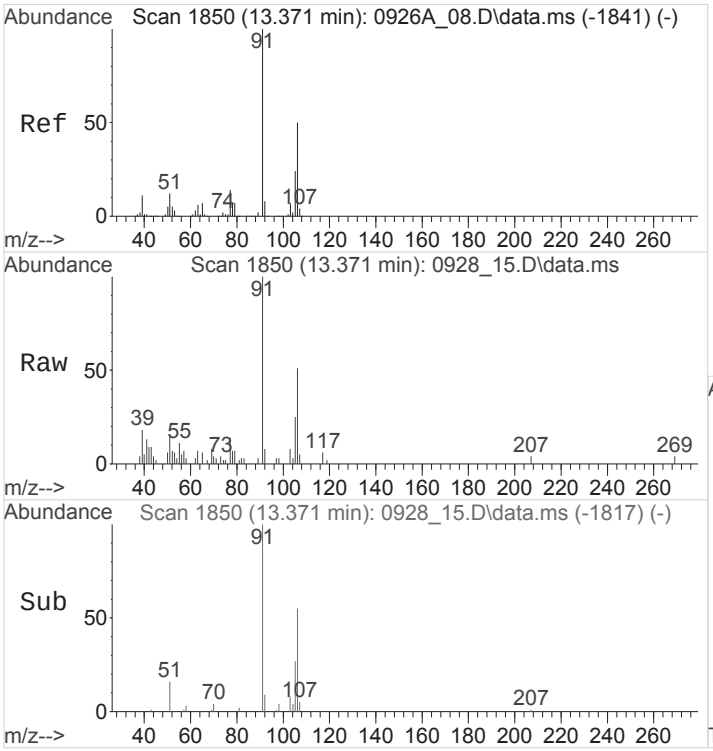


#59
Ethylbenzene
Concen: 0.0660501 ppbv m
RT: 13.255 min Scan# 1831
Delta R.T. -0.002 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 91 Resp: 26053

Ion	Ratio	Lower	Upper
91	100		
106	123.6	24.3	36.5#

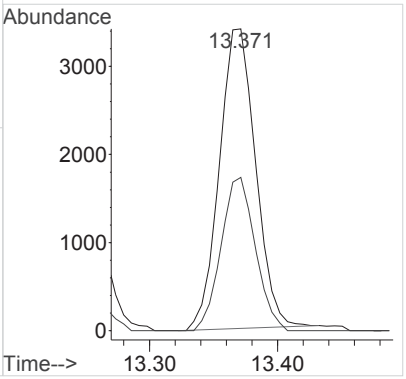


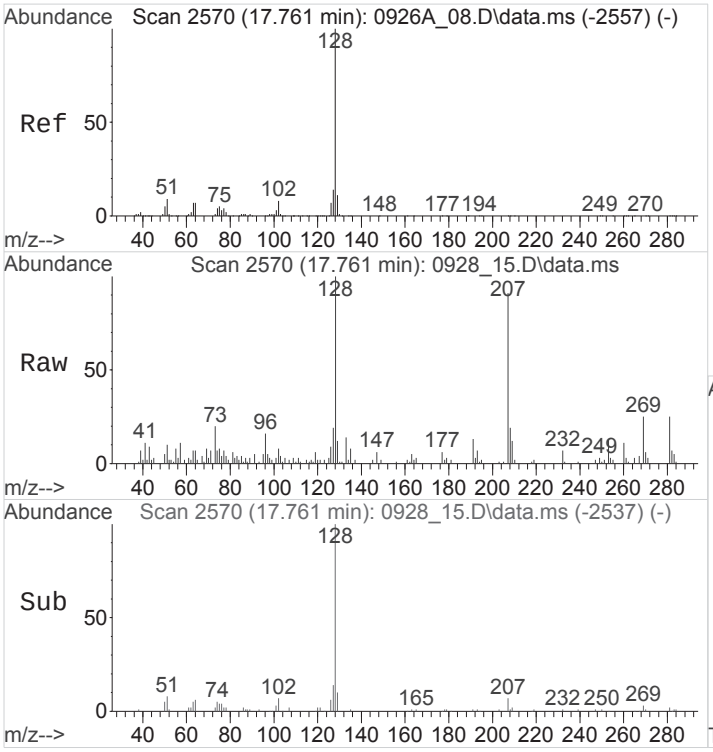


#60
M&P-Xylene
Concen: 0.2239140 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion: 91 Resp: 66748

Ion	Ratio	Lower	Upper
91	100		
106	48.3	39.8	59.6

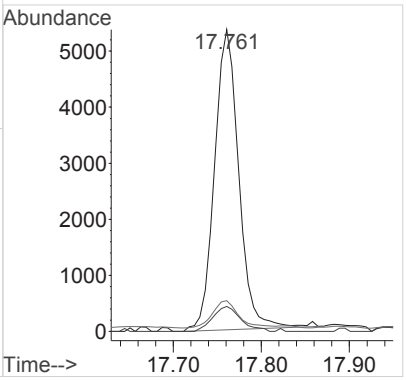


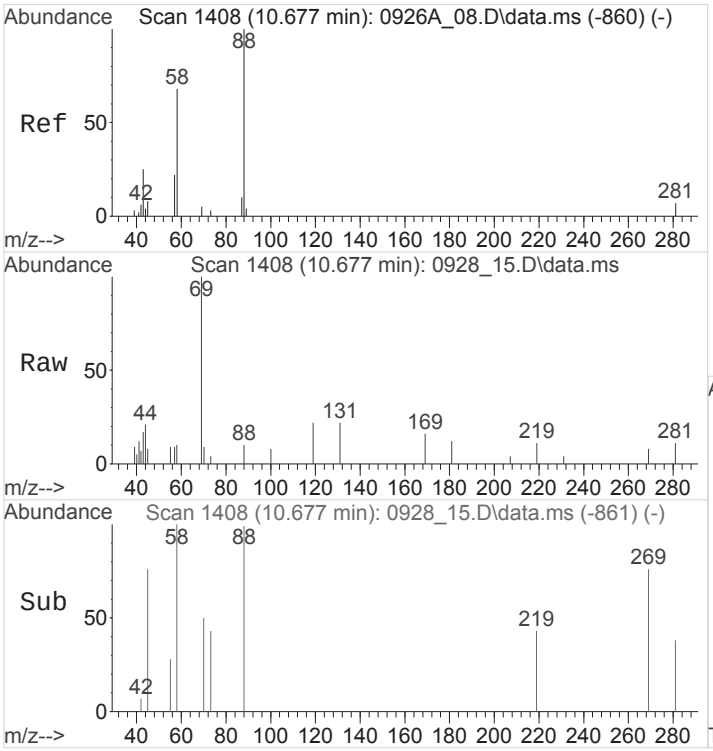


#83
Naphthalene
Concen: 0.5721857 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

Tgt Ion:128 Resp: 102595

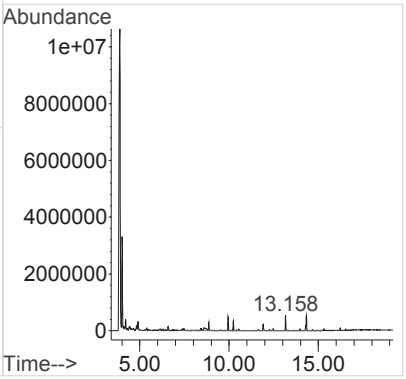
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 94.0468961 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_15.D
Acq: 28 Sep 2016 5:32 pm

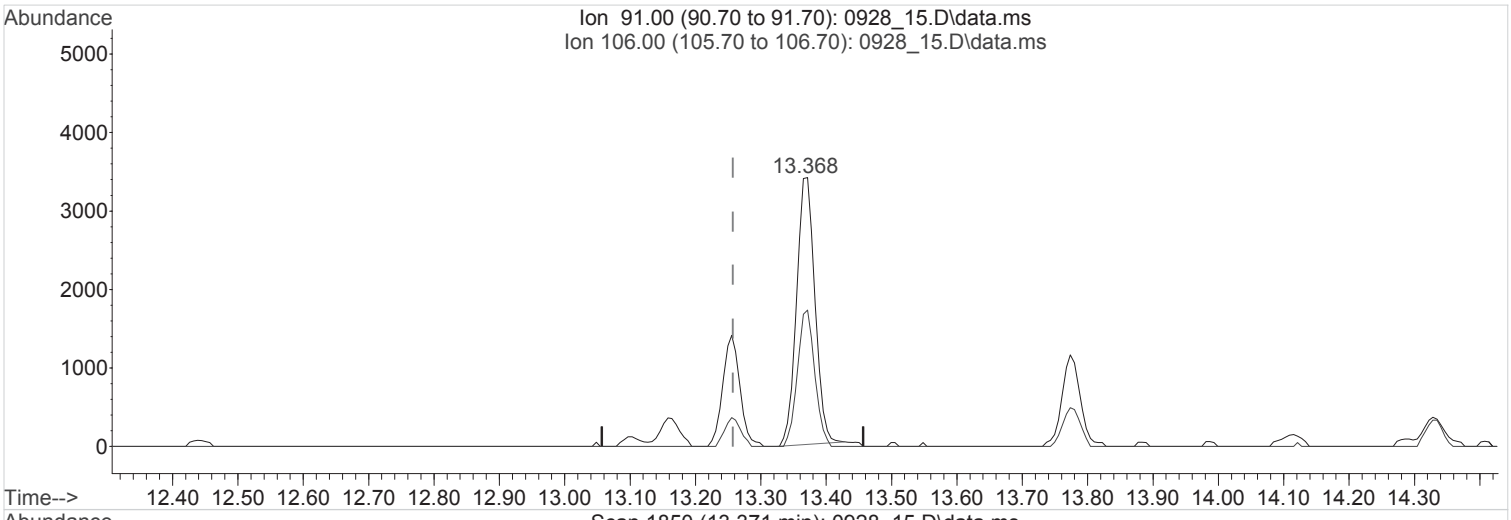
Tgt Ion:TIC Resp:65942225

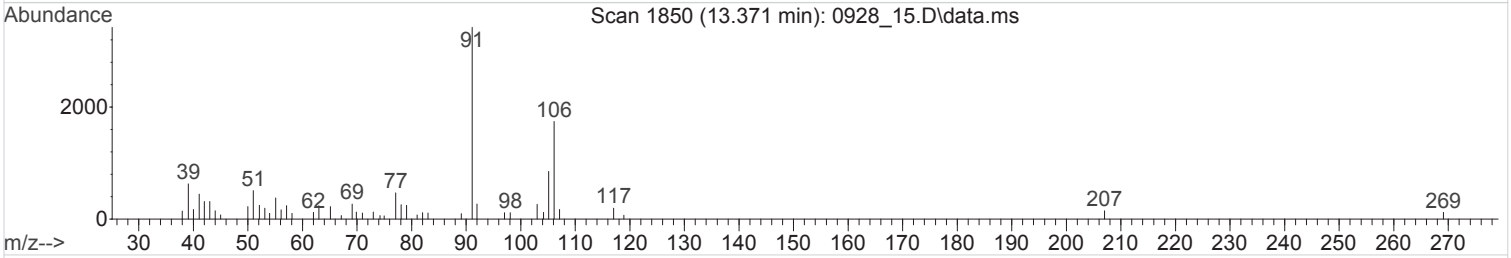


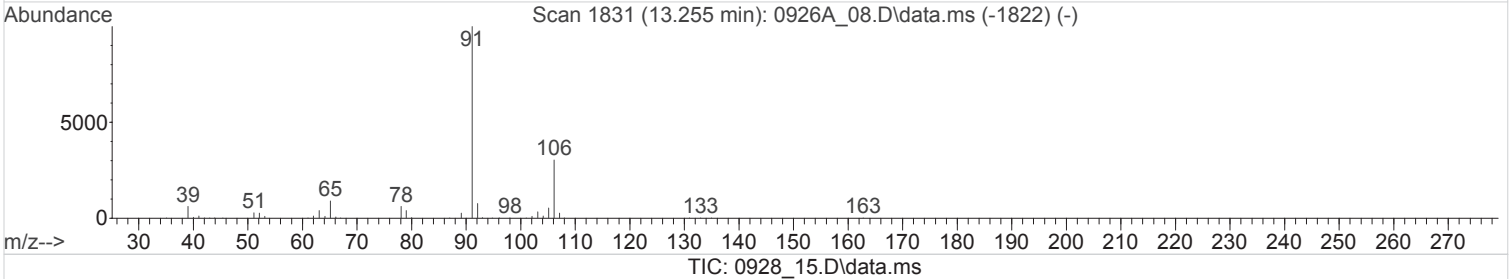
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_15.D
Acq On : 28 Sep 2016 5:32 pm
Operator : 564
Sample : L861822-11 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:16 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_15.D\data.ms

(59) Ethylbenzene (T,M)

13.371min (+0.114) 0.0845799 ppbv

Qvalue = 67

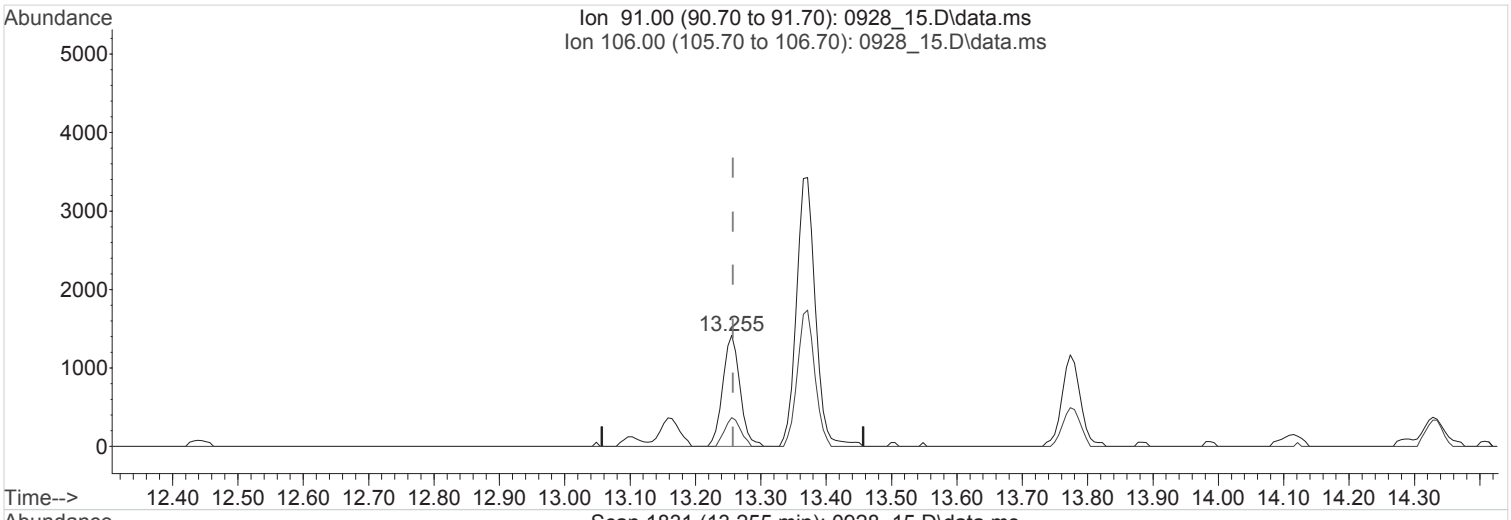
response 66724 Limit = 0.1012000

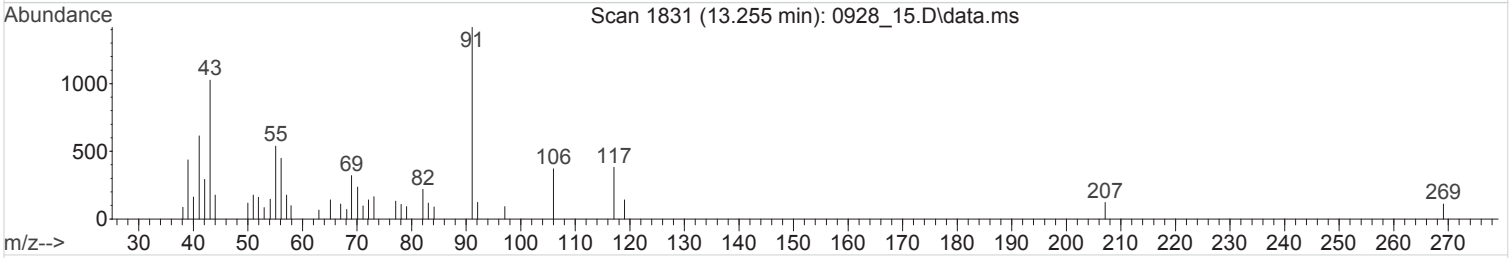
Ion	Exp%	Act%
91.00	100	100
106.00	30.40	48.26#
0.00	0.00	0.00
0.00	0.00	0.00

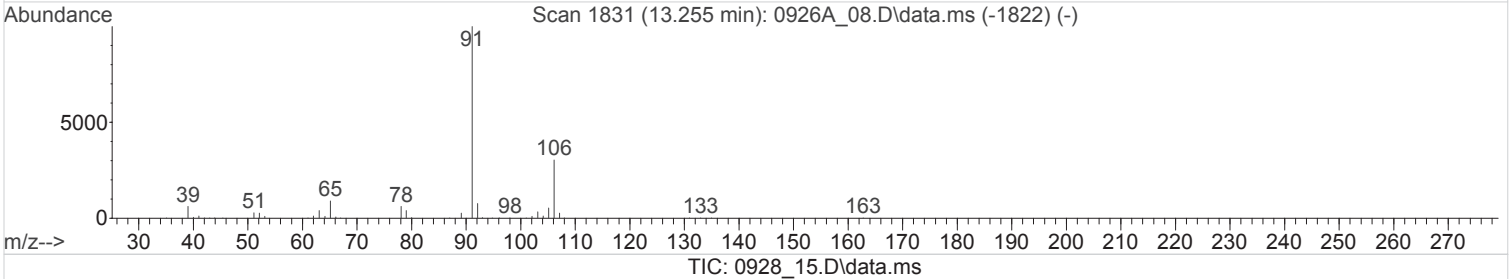
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_15.D
Acq On : 28 Sep 2016 5:32 pm
Operator : 564
Sample : L861822-11 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:16 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_15.D\data.ms

(59) Ethylbenzene (T,M)

13.255min (-0.002) 0.0330251 ppbv m

response 26053 Limit = 0.1012000

Ion	Exp%	Act%
91.00	100	100
106.00	30.40	123.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 8
InstName : AIRMS2

Quant Time: Sep 29 08:01:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

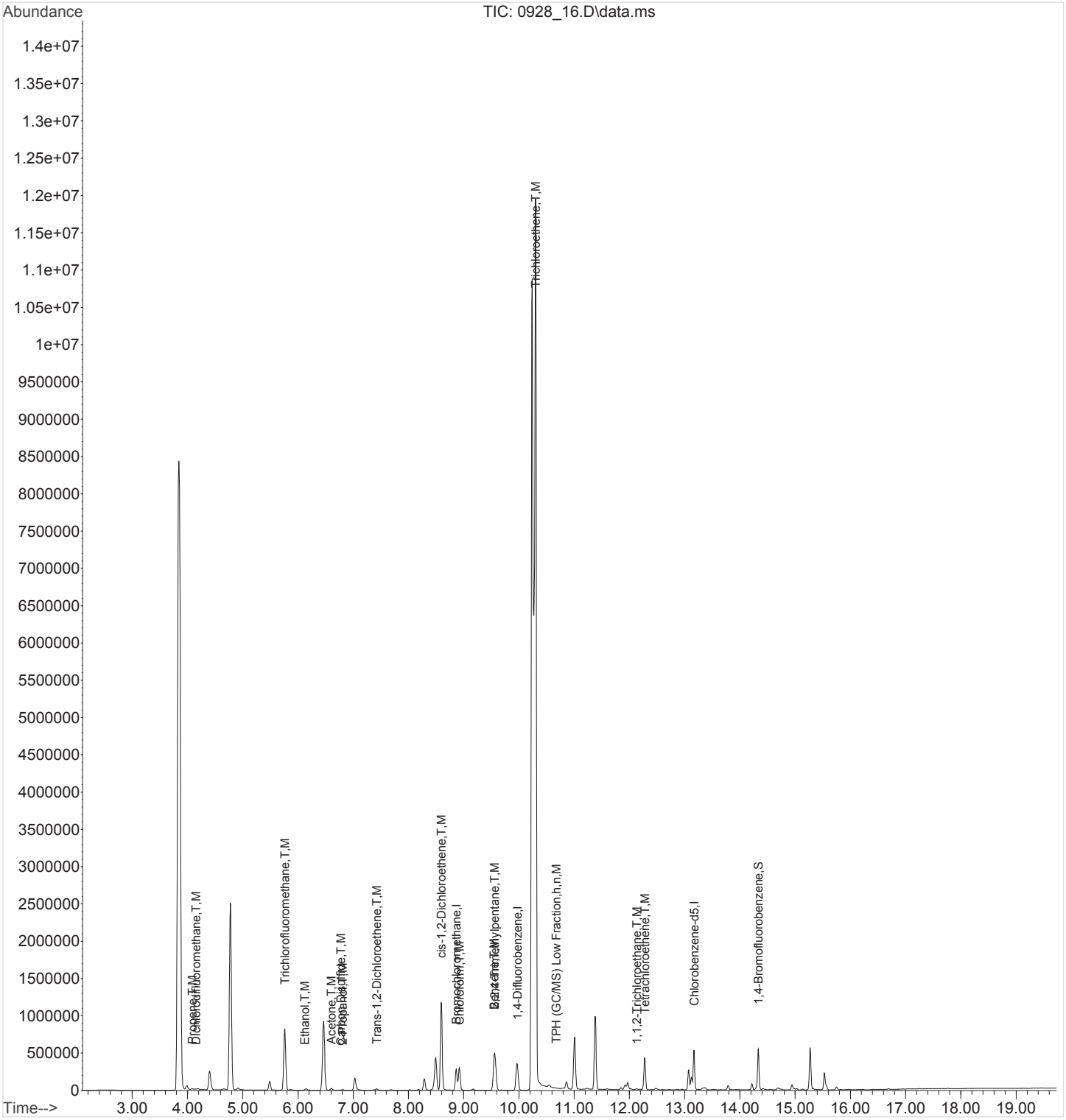
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.867	130	1113810	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.968	114	4517871	4.0000000	ppbv	0.02
58) Chlorobenzene-d5	13.170	117	3182620	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.334	95	2092769	4.2324725	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.81%			
Target Compounds						Qvalue
2) Propene	4.088	41	43727	1.8255229	ppbv #	44
4) Dichlorodifluoromethane	4.151	85	52106	1.1317087	ppbv #	42
13) Trichlorofluoromethane	5.763	101	8899966	200.2667810	ppbv	100
14) Ethanol	6.123	45	34825m	8.6762864	ppbv	
17) Acetone	6.607	43	424094	5.9194834	ppbv	99
18) 2-Propanol	6.810	45	127559	2.6359538	ppbv #	74
19) Carbon Disulfide	6.778	76	51528	0.8300362	ppbv #	60
24) Trans-1,2-Dichloroethene	7.426	96	102405	4.8231732	ppbv #	1
30) cis-1,2-Dichloroethene	8.597	61	8559977	220.2186267	ppbv #	81
32) Chloroform	8.924	83	2585702	61.1983178	ppbv	97
36) 2,2,4-Trimethylpentane	9.562	57	7502631	59.2851317	ppbv	98
38) Benzene	9.557	78	55476	0.7535867	ppbv #	1
41) Trichloroethene	10.305	95	94362897m	3290.6524771	ppbv	
52) 1,1,2-Trichloroethane	12.131	97	43181	1.6160408	ppbv #	24
53) Tetrachloroethene	12.280	166	1563548	42.1976513	ppbv	97
84) TPH (GC/MS) Low Fraction	10.675	TIC	721219962m	4233.6542805	ppbv	

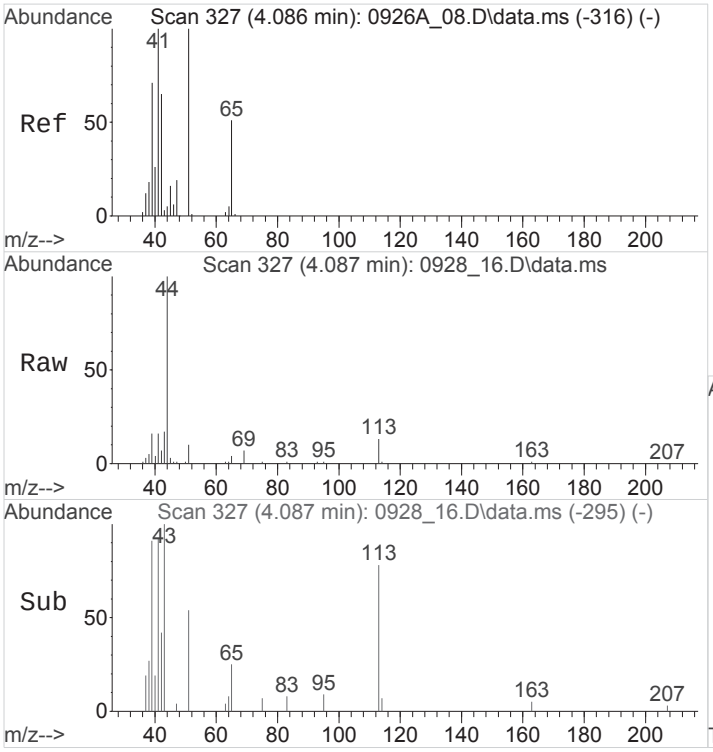
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 8
InstName : AIRMS2

Quant Time: Sep 29 08:01:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

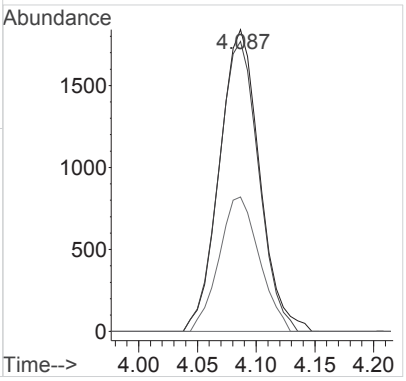


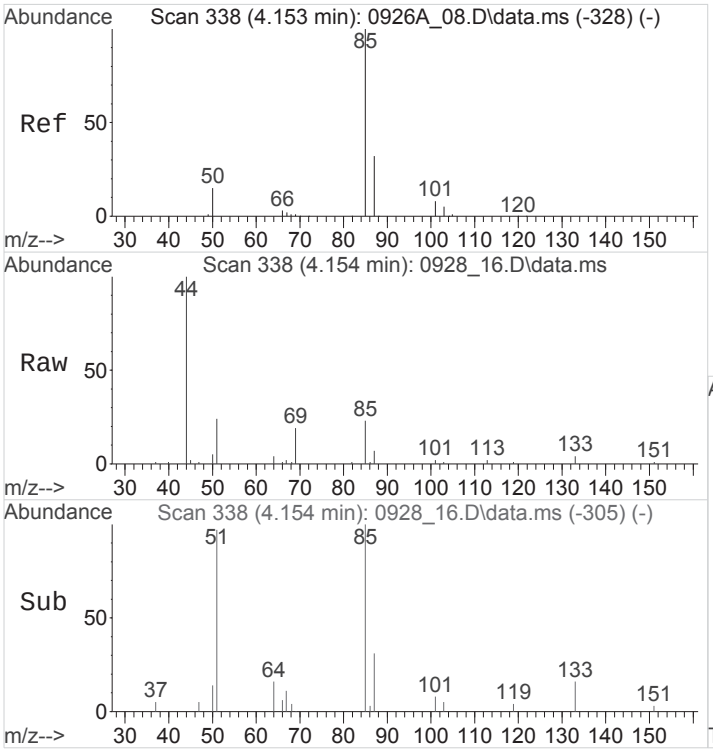


#2
Propene
Concen: 1.8255229 ppbv
RT: 4.088 min Scan# 327
Delta R.T. -0.000 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 41 Resp: 43727

Ion	Ratio	Lower	Upper
41	100		
39	96.0	56.5	84.7#
42	0.0	52.2	78.4#

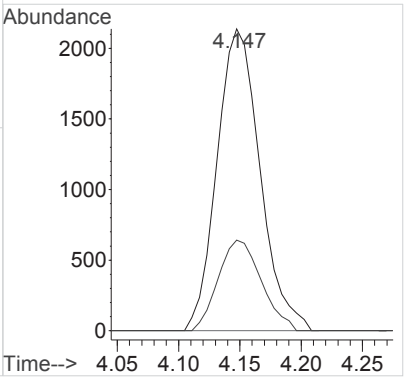


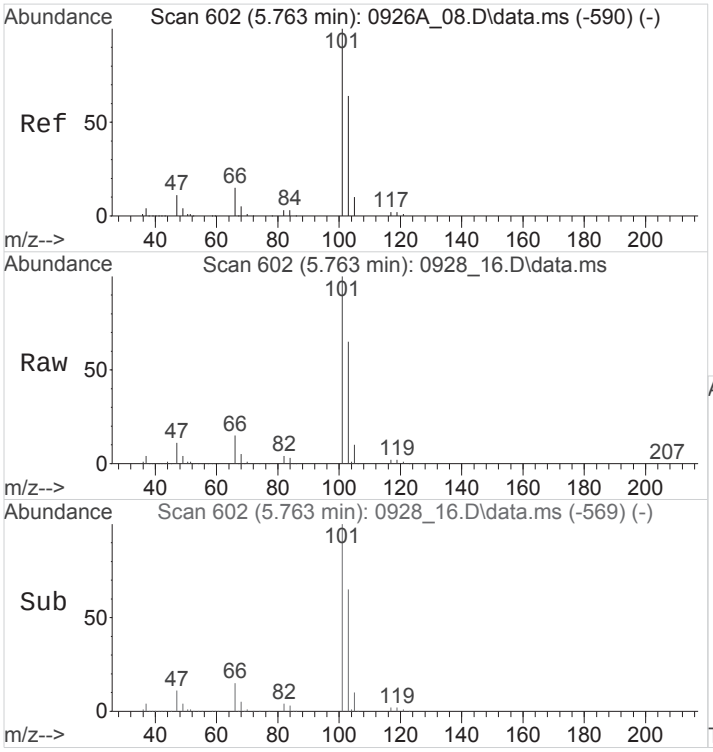


#4
Dichlorodifluoromethane
Concen: 1.1317087 ppbv
RT: 4.151 min Scan# 338
Delta R.T. -0.002 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 85 Resp: 52106

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

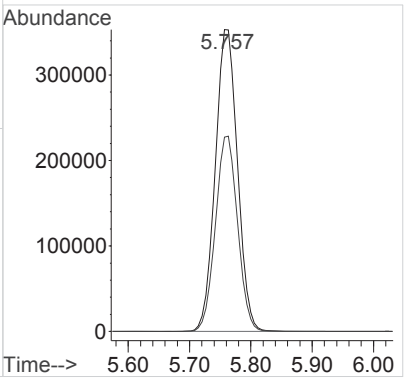


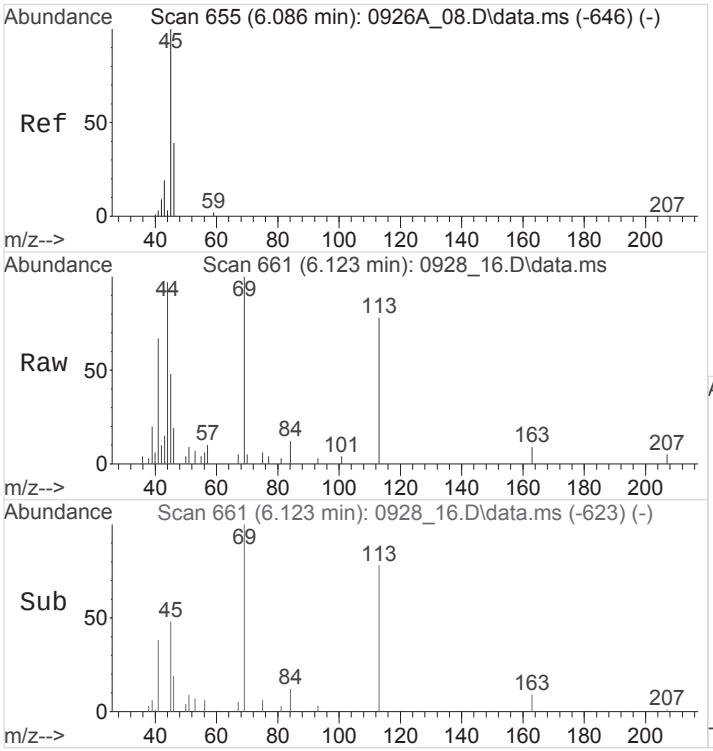


#13
Trichlorofluoromethane
Concen: 200.2667810 ppbv
RT: 5.763 min Scan# 602
Delta R.T. 0.002 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion:101 Resp: 8899966

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.7	77.5

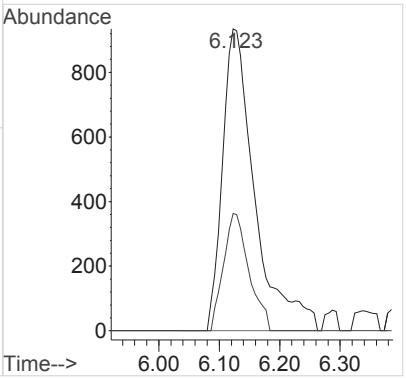


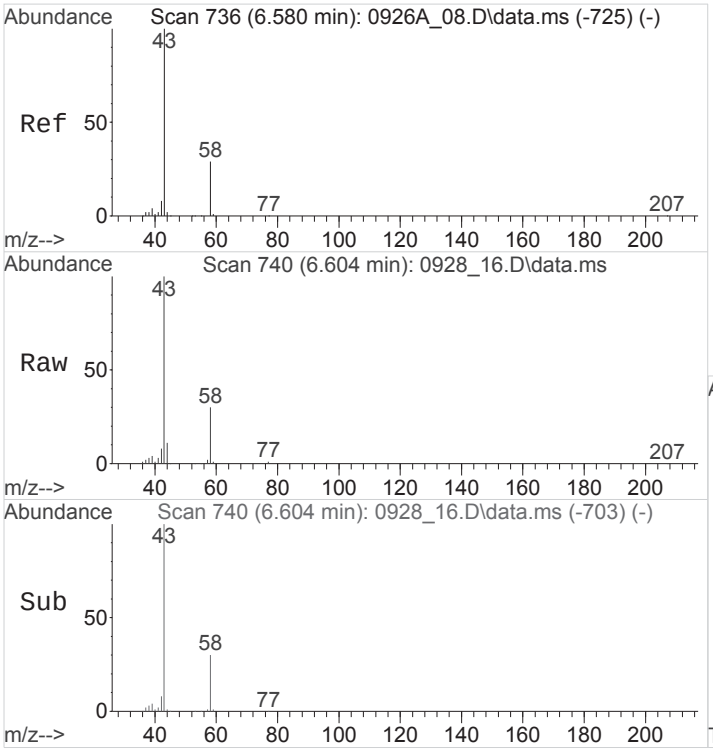


#14
Ethanol
Concen: 8.6762864 ppbv m
RT: 6.123 min Scan# 661
Delta R.T. 0.035 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 45 Resp: 34825

Ion	Ratio	Lower	Upper
45	100		
46	0.0	33.0	49.4#

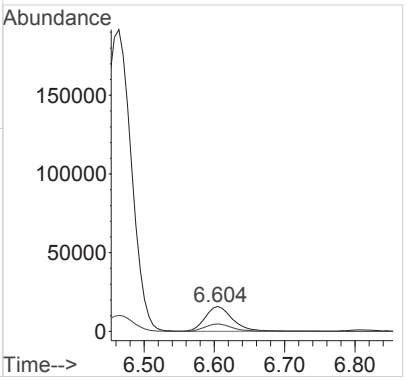


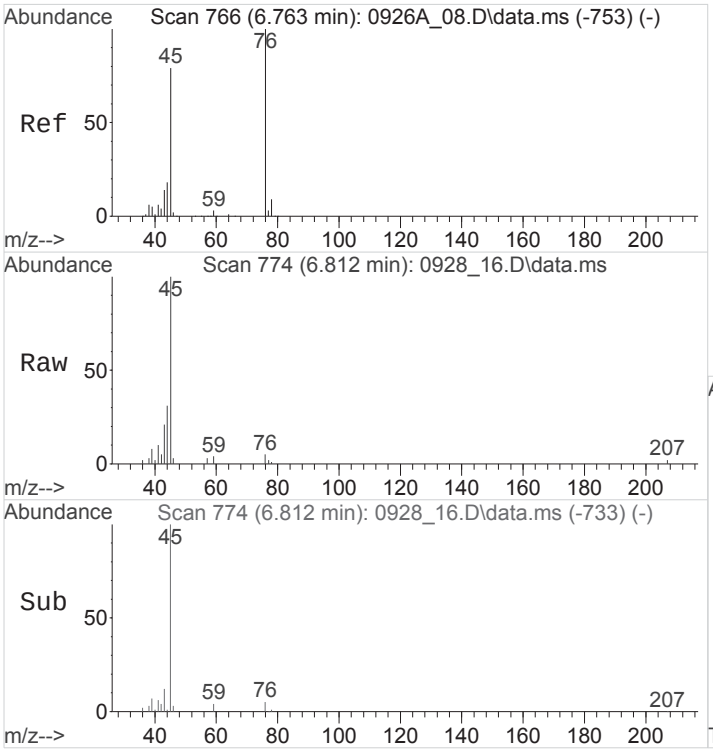


#17
Acetone
Concen: 5.9194834 ppbv
RT: 6.607 min Scan# 740
Delta R.T. 0.028 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 43 Resp: 424094

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7

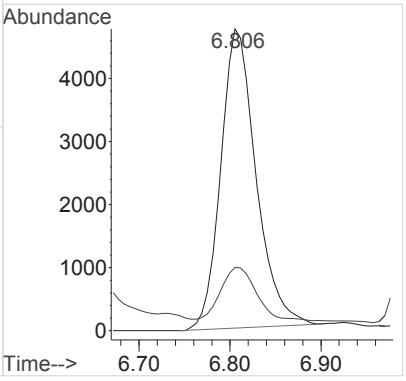


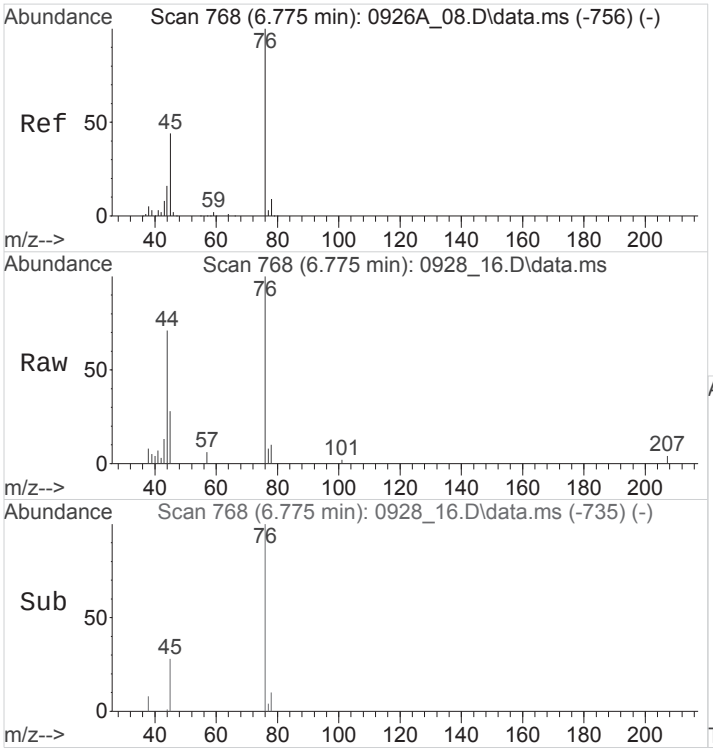


#18
2-Propanol
Concen: 2.6359538 ppbv
RT: 6.810 min Scan# 774
Delta R.T. 0.049 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 45 Resp: 127559

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

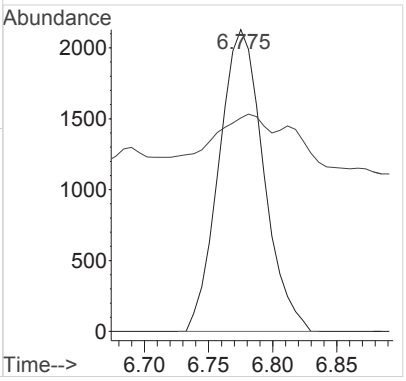


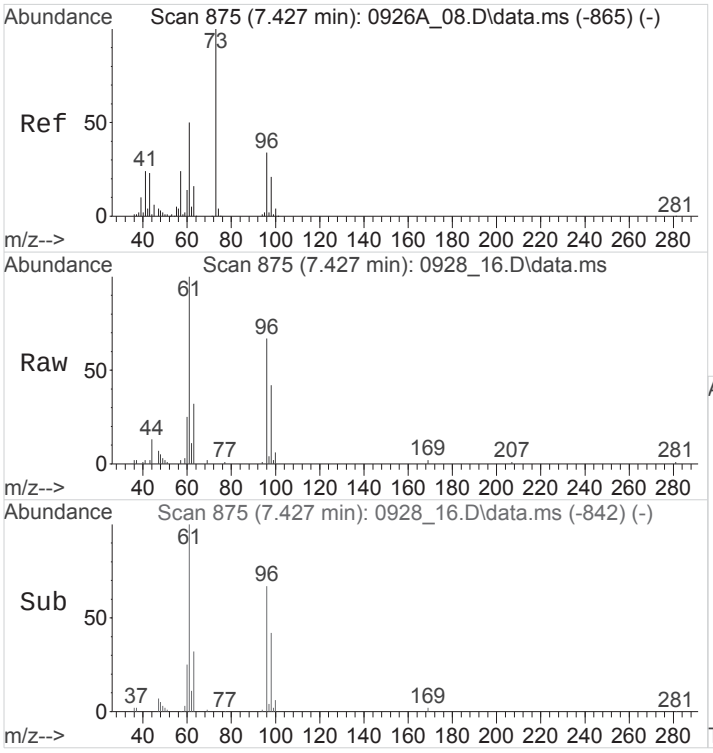


#19
Carbon Disulfide
Concen: 0.8300362 ppbv
RT: 6.778 min Scan# 768
Delta R.T. 0.002 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 76 Resp: 51528

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.2	21.2#

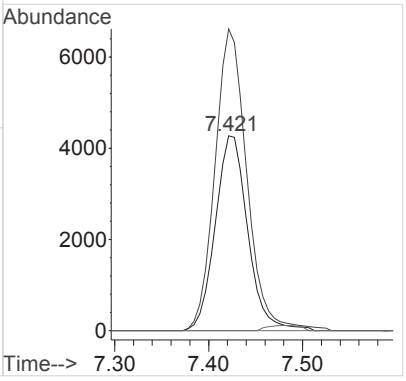


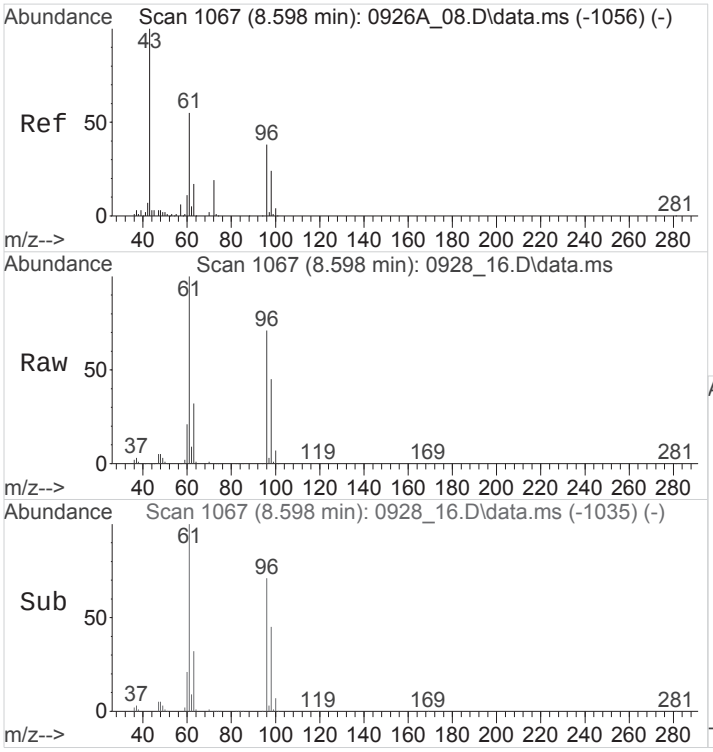


#24
Trans-1,2-Dichloroethene
Concen: 4.8231732 ppbv
RT: 7.426 min Scan# 875
Delta R.T. 0.002 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 96 Resp: 102405

Ion	Ratio	Lower	Upper
96	100		
61	148.9	121.0	181.4
73	0.0	244.6	366.8#

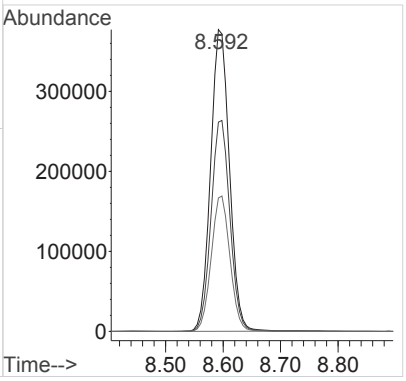


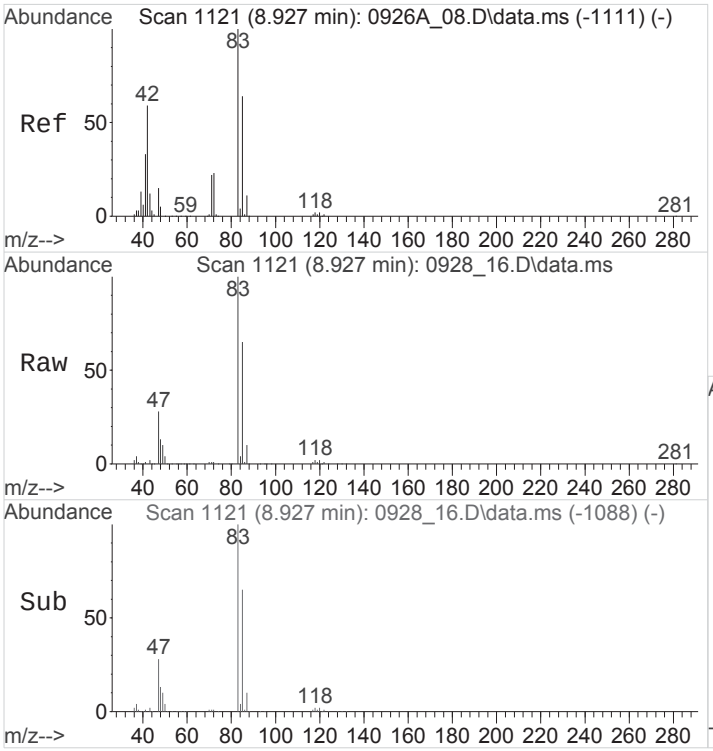


#30
cis-1,2-Dichloroethene
Concen: 220.2186267 ppbv
RT: 8.597 min Scan# 1067
Delta R.T. -0.004 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 61 Resp: 8559977

Ion	Ratio	Lower	Upper
61	100		
96	69.6	43.5	65.3#
98	44.5	27.8	41.8#

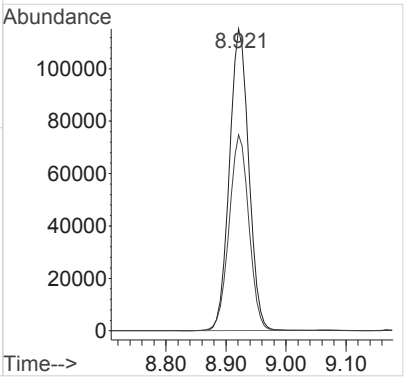


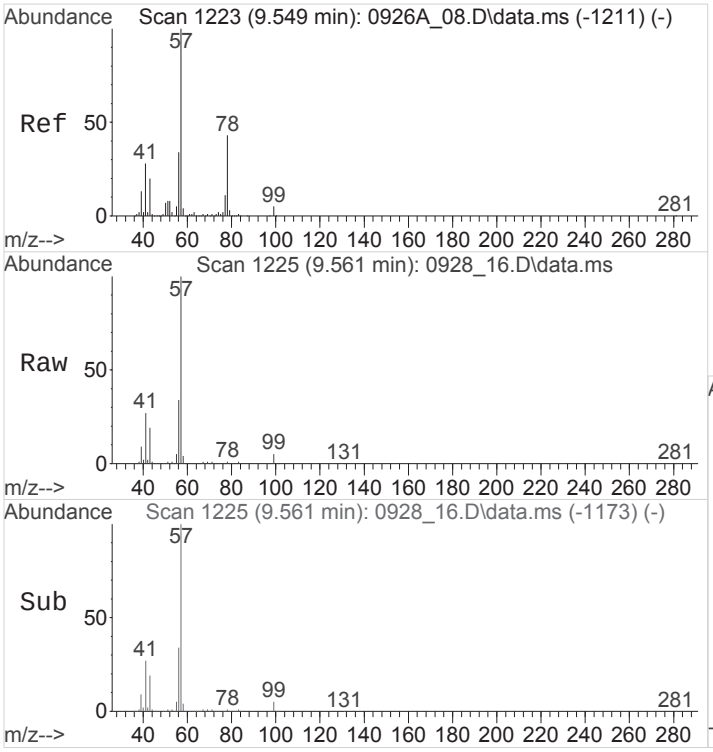


#32
Chloroform
Concen: 61.1983178 ppbv
RT: 8.924 min Scan# 1121
Delta R.T. -0.002 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 83 Resp: 2585702

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.0	76.6

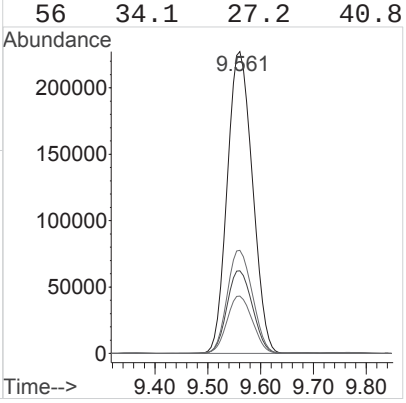


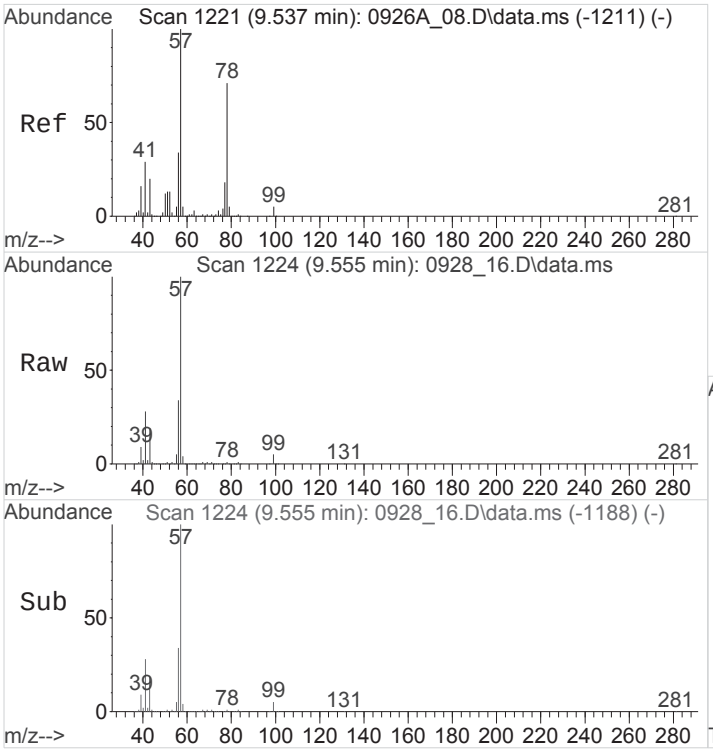


#36
2,2,4-Trimethylpentane
Concen: 59.2851317 ppbv
RT: 9.562 min Scan# 1225
Delta R.T. 0.015 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 57 Resp: 7502631

Ion	Ratio	Lower	Upper
57	100		
41	27.5	22.7	34.1
43	19.2	16.6	25.0
56	34.1	27.2	40.8

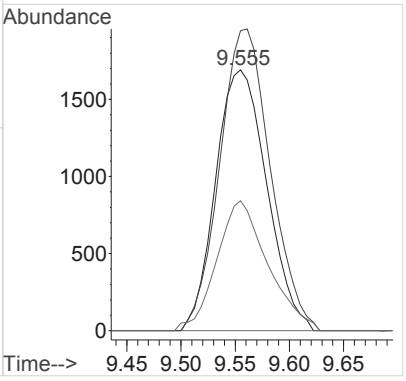


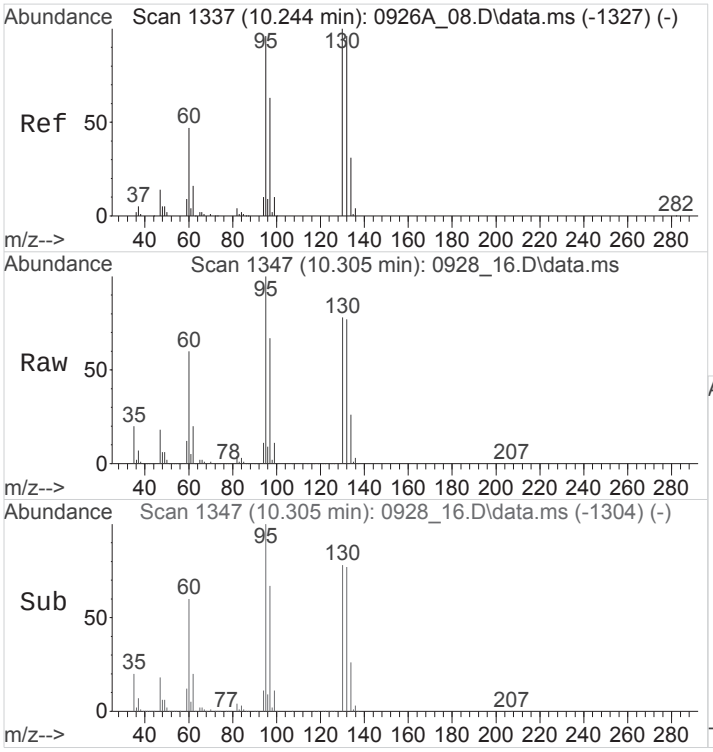


#38
Benzene
Concen: 0.7535867 ppbv
RT: 9.557 min Scan# 1224
Delta R.T. 0.019 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 78 Resp: 55476

Ion	Ratio	Lower	Upper
78	100		
51	114.5	15.4	23.0#
77	49.7	19.9	29.9#

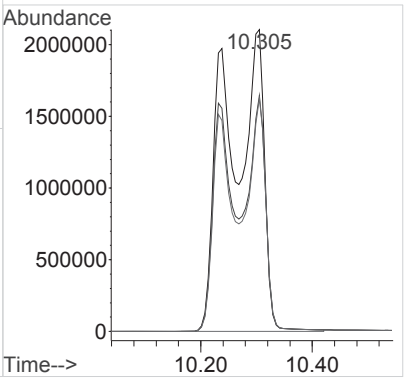


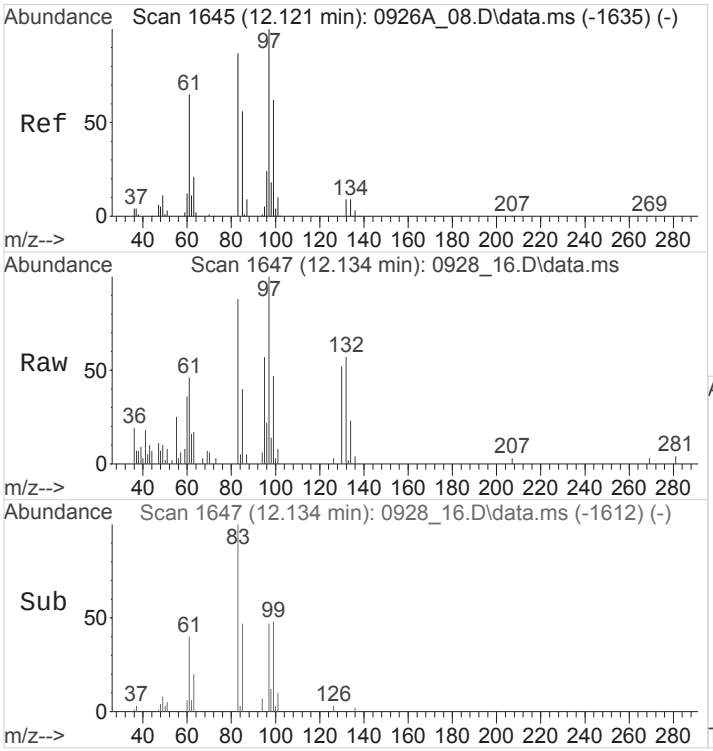


#41
Trichloroethene
Concen: 3290.6524771 ppbv m
RT: 10.305 min Scan# 1347
Delta R.T. 0.064 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 95 Resp:94362897

Ion	Ratio	Lower	Upper
95	100		
130	38.7	81.6	122.4#
132	36.4	77.8	116.6#

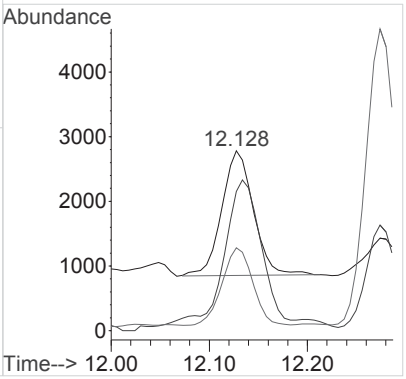


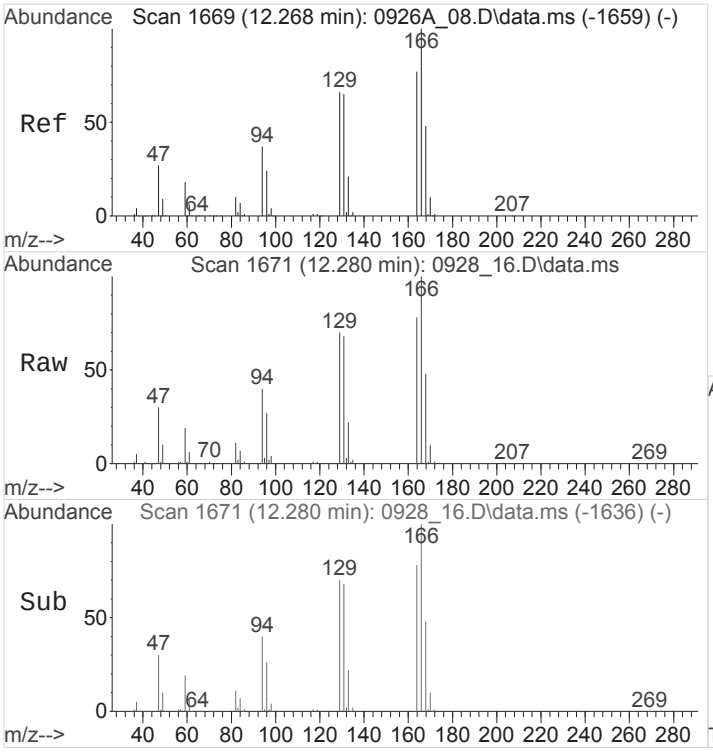


#52
1,1,2-Trichloroethane
Concen: 1.6160408 ppbv
RT: 12.131 min Scan# 1647
Delta R.T. 0.012 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion: 97 Resp: 43181

Ion	Ratio	Lower	Upper
97	100		
83	152.4	69.5	104.3#
61	0.0	52.2	78.4#

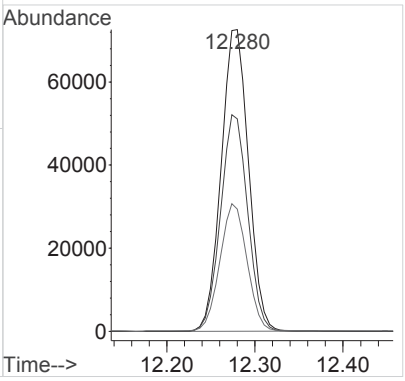


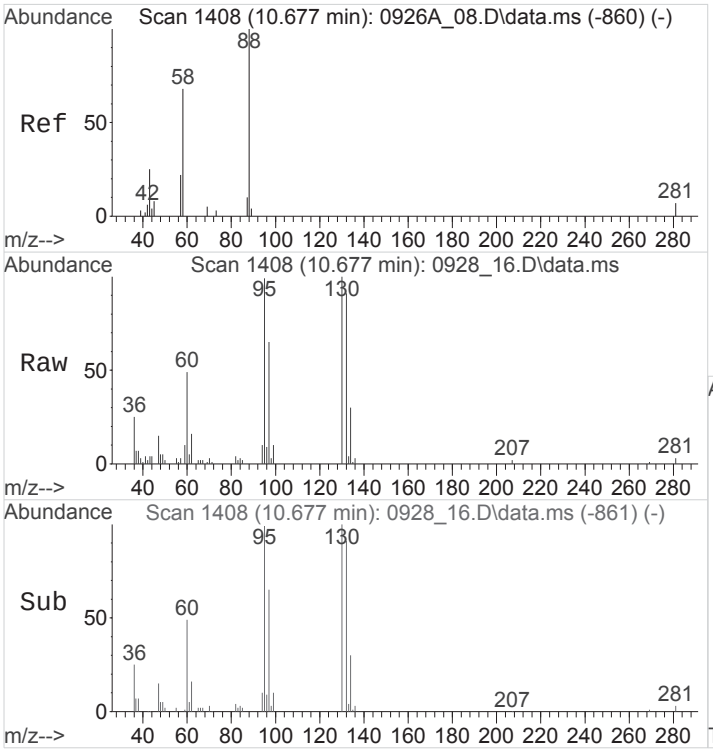


#53
Tetrachloroethene
Concen: 42.1976513 ppbv
RT: 12.280 min Scan# 1671
Delta R.T. 0.013 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

Tgt Ion:166 Resp: 1563548

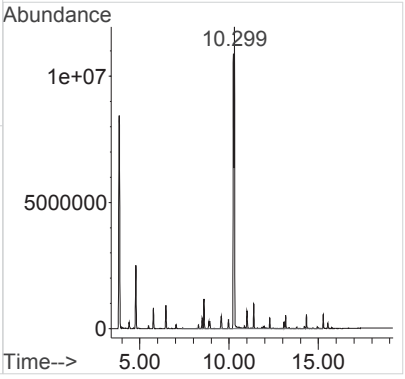
Ion	Ratio	Lower	Upper
166	100		
129	71.1	55.0	82.6
94	41.9	31.3	46.9





#84
TPH (GC/MS) Low Fraction
Concen: 4233.6542805 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_16.D
Acq: 28 Sep 2016 6:15 pm

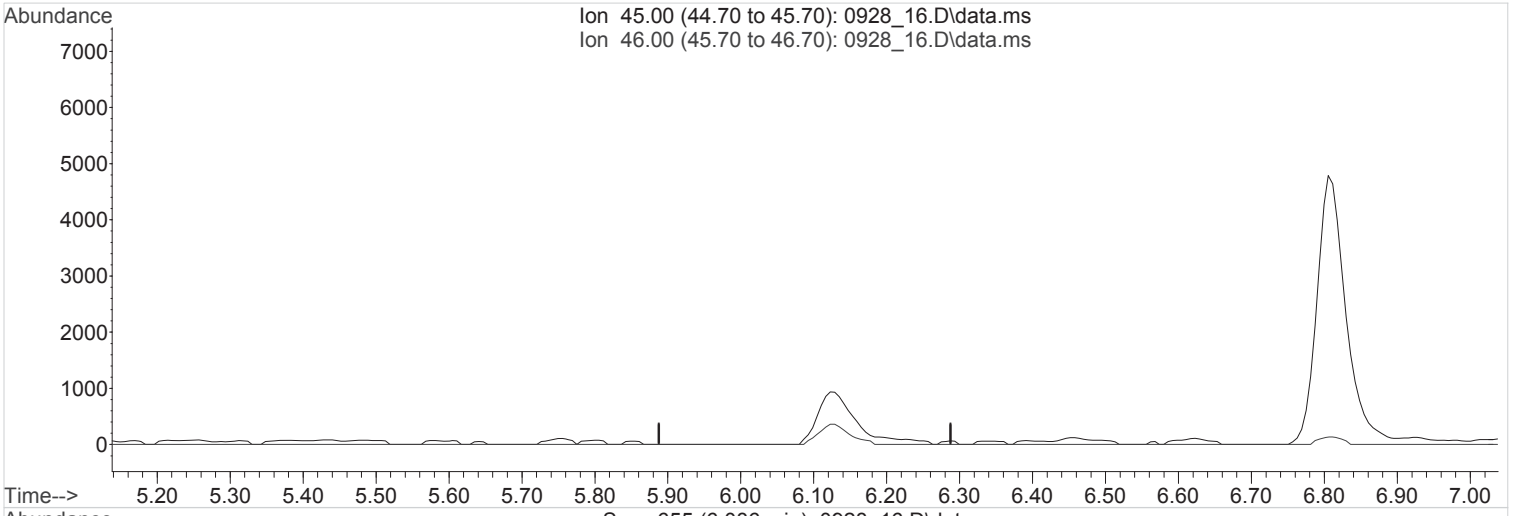
Tgt Ion:TIC Resp:721219962

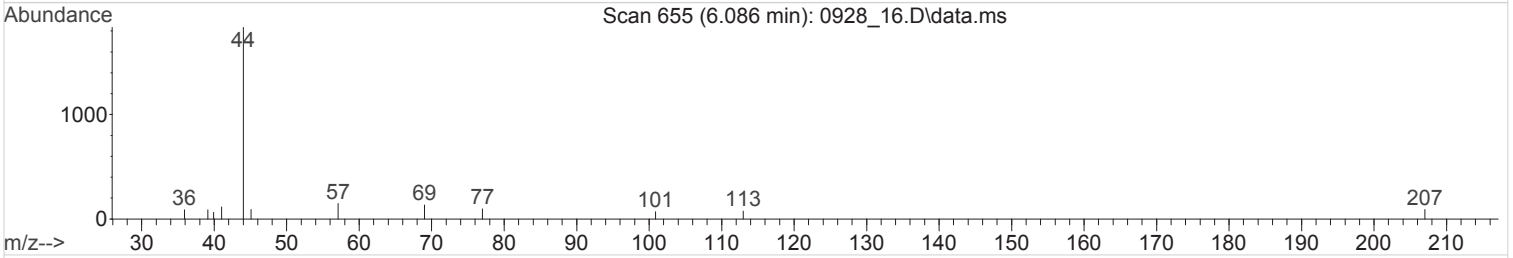


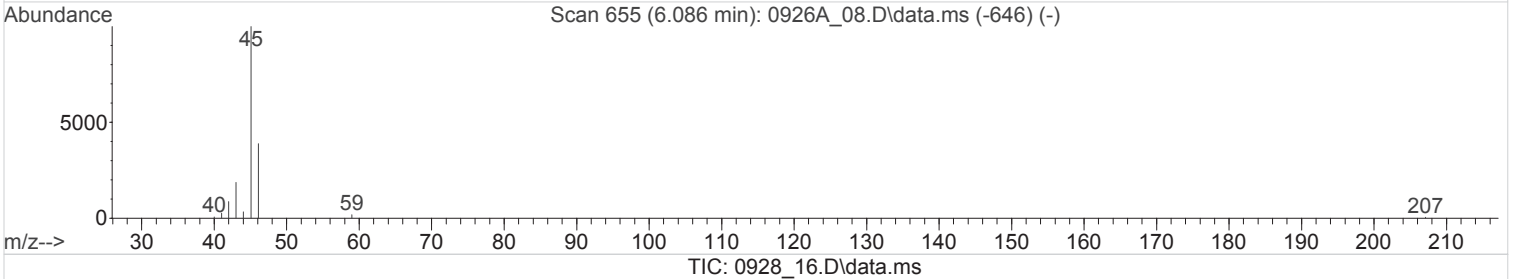
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_16.D\data.ms

(14) Ethanol (T,M)

6.088min (-6.088) 0.0000000 ppbv

Qvalue = 0

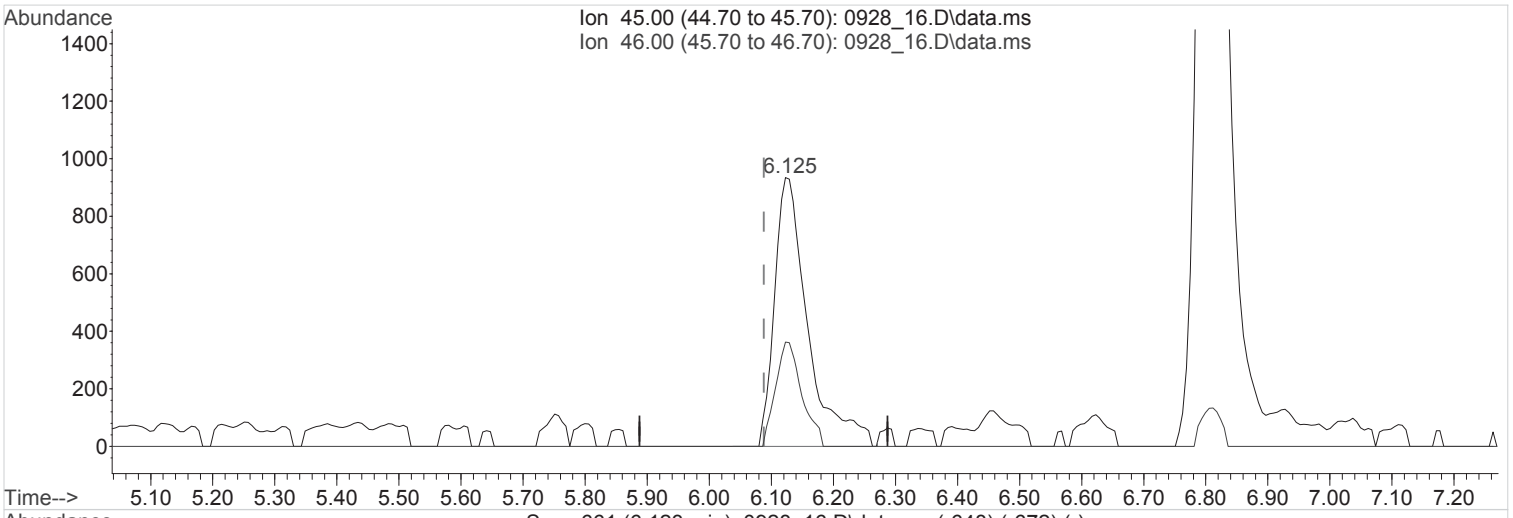
response 0 Limit = 0.6656000

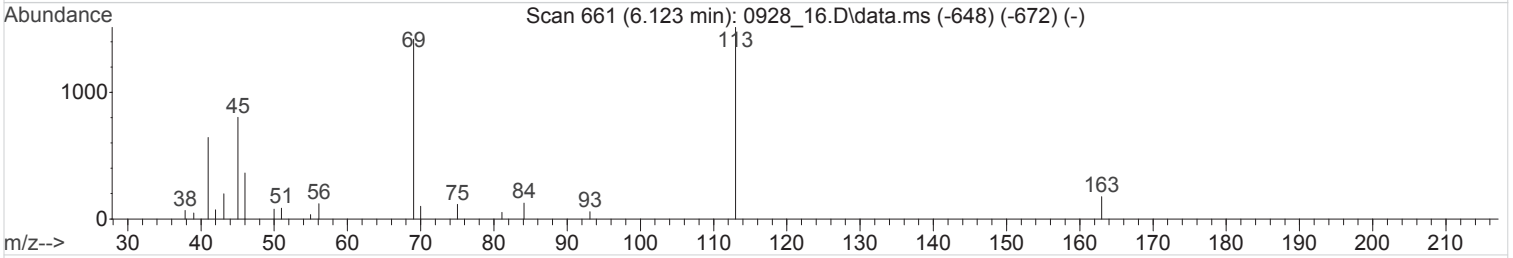
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

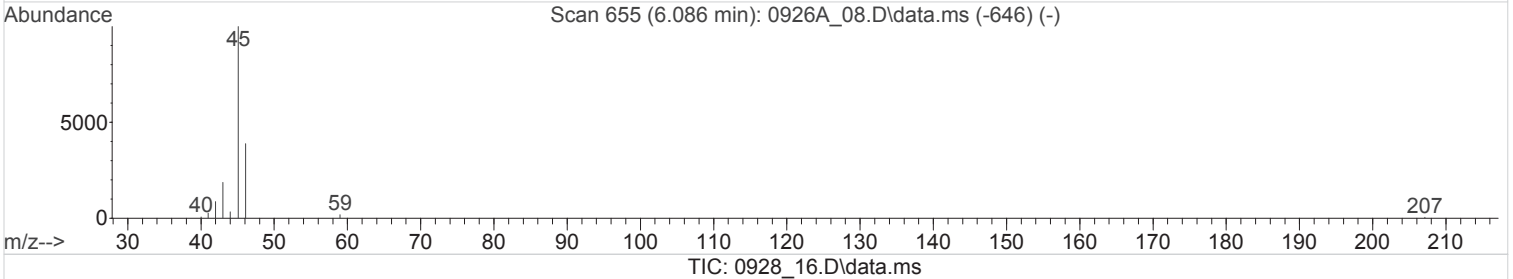
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_16.D\data.ms

(14) Ethanol (T,M)

6.123min (+0.035) 1.0845358 ppbv m

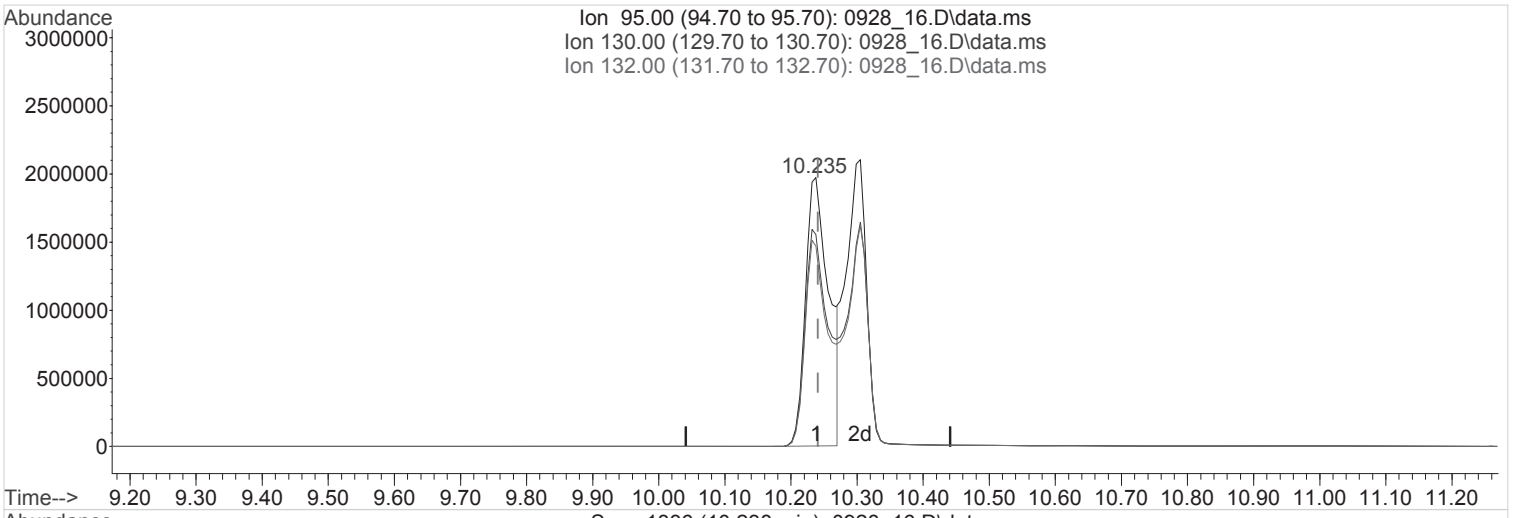
response 34825 Limit = 0.6656000

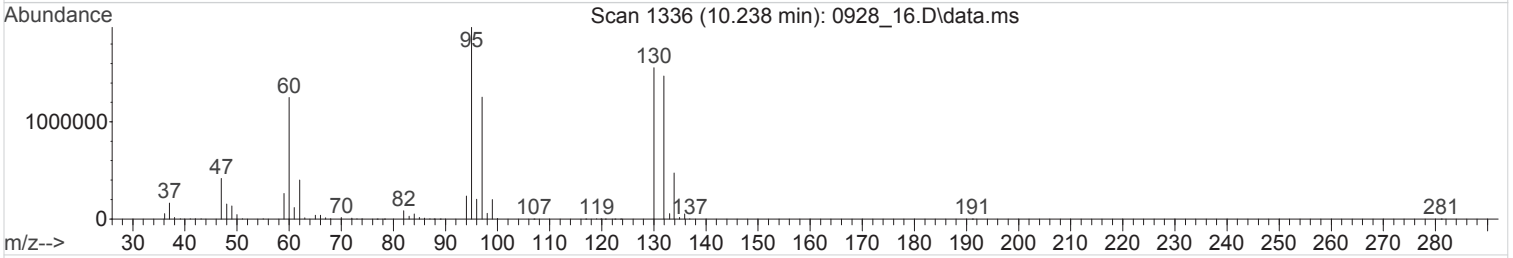
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

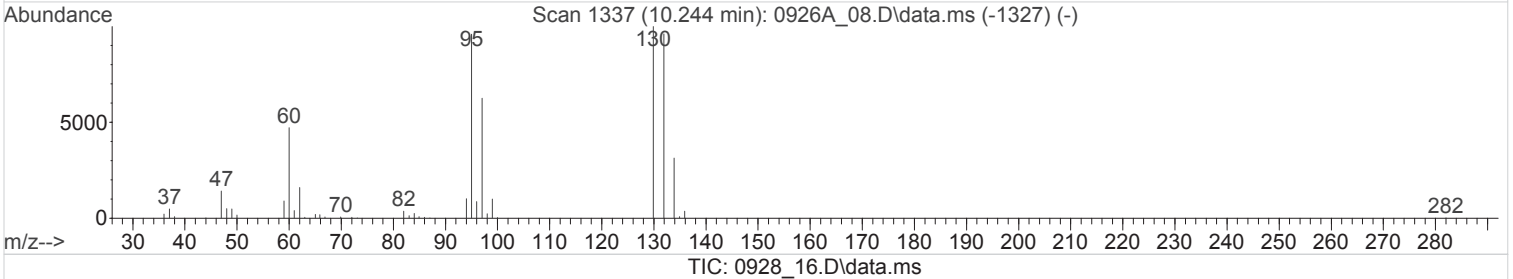
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_16.D\data.ms

(41) Trichloroethene (T,M)

10.238min (-0.003) 195.8396993 ppbv E

Qvalue = 79

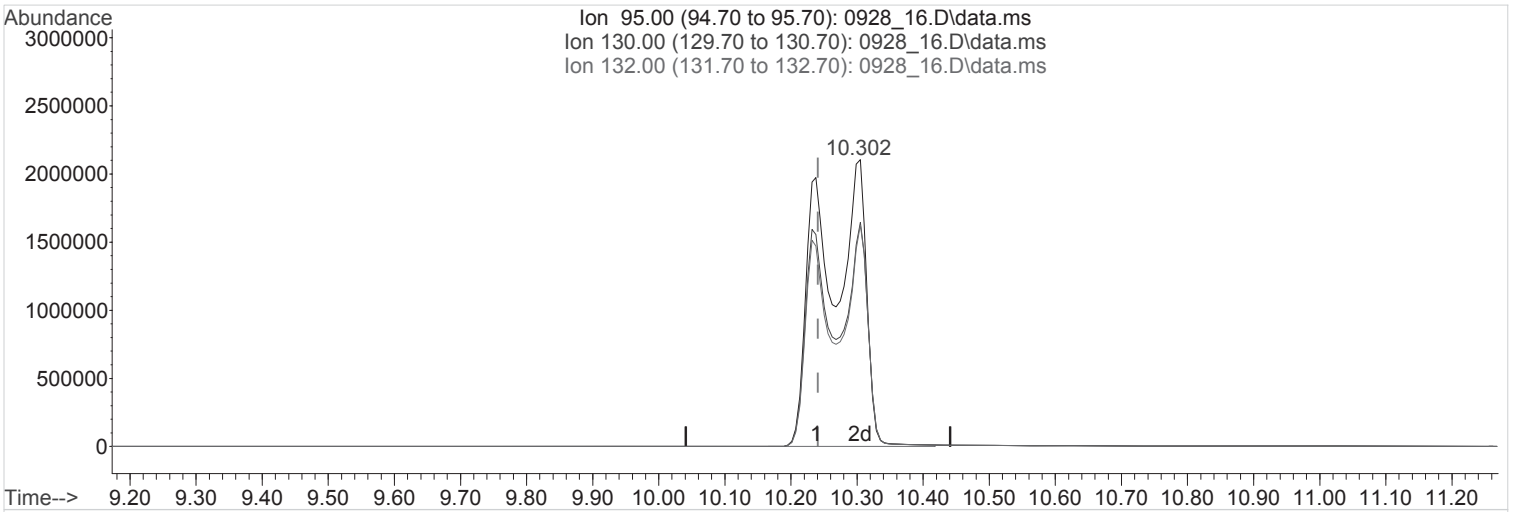
response 44927264 Limit = 0.4360000

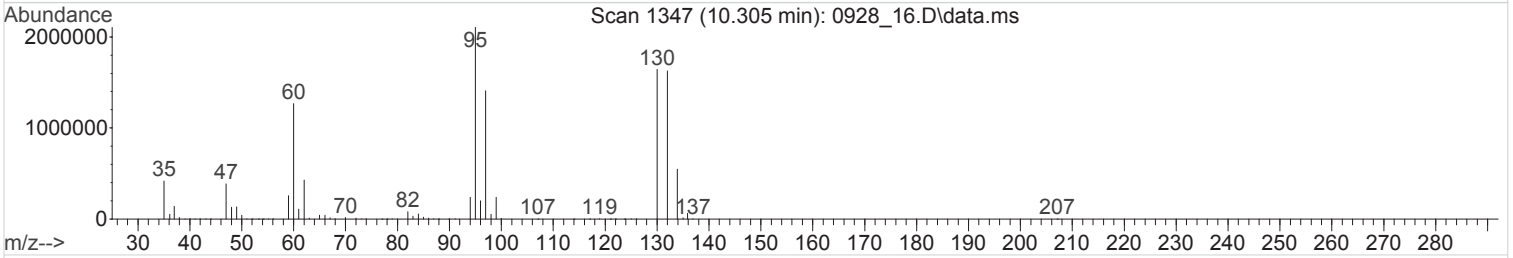
Ion	Exp%	Act%
95.00	100	100
130.00	102.00	81.31#
132.00	97.20	76.38#
0.00	0.00	0.00

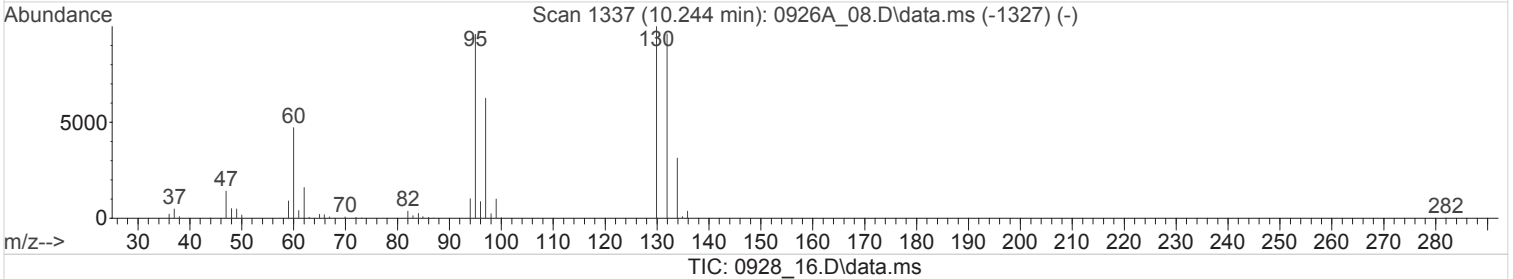
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_16.D
Acq On : 28 Sep 2016 6:15 pm
Operator : 564
Sample : L861822-12 8x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_16.D\data.ms

(41) Trichloroethene (T,M)

10.305min (+0.064) 411.3315596 ppbv m E

response 94362897 Limit = 0.4360000

Ion	Exp%	Act%
95.00	100	100
130.00	102.00	38.71#
132.00	97.20	36.37#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_17.D
Acq On : 28 Sep 2016 7:01 pm
Operator : 564
Sample : L861822-13 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 17 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:24:52 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

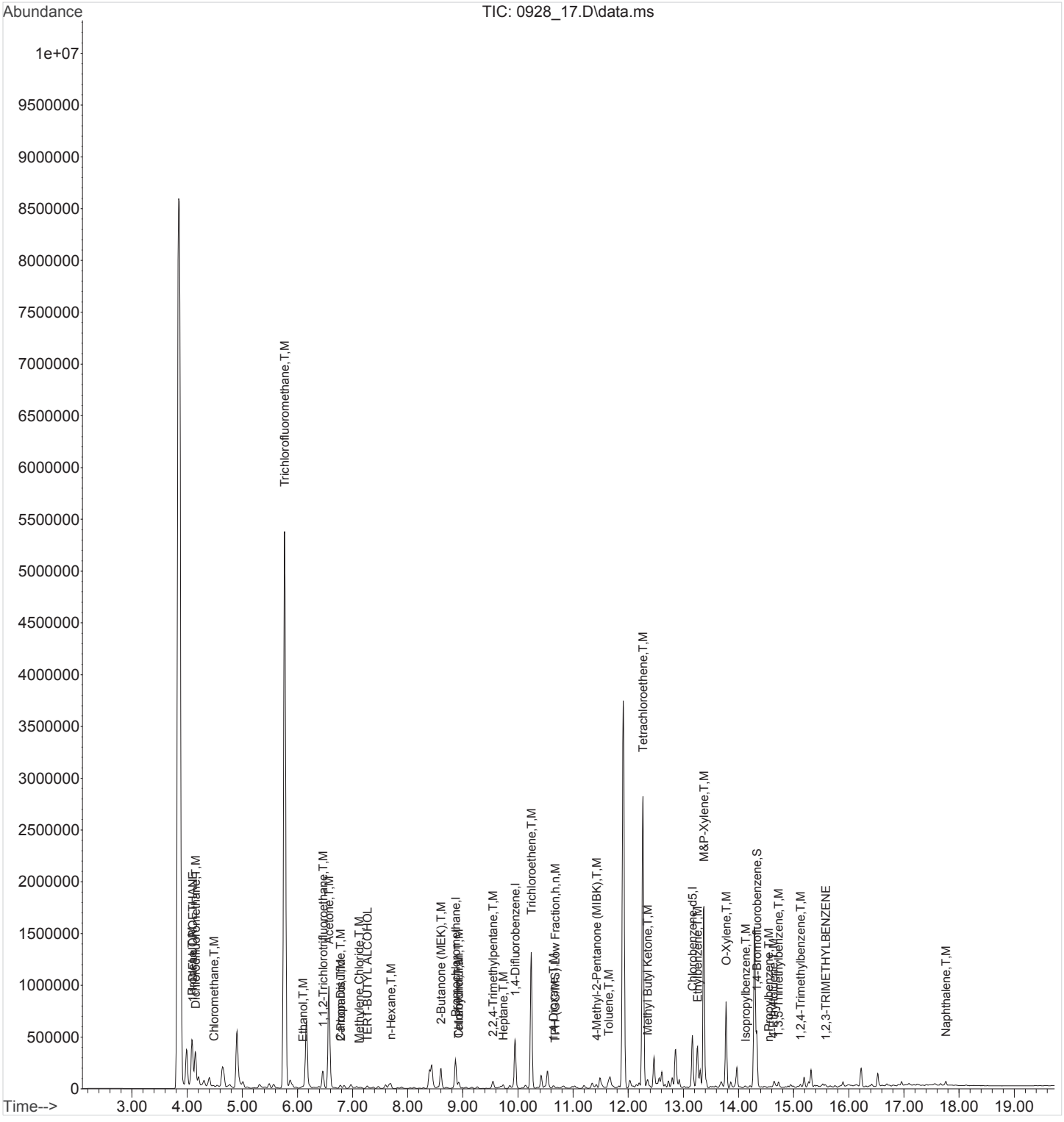
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.870	130	1072366	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.951	114	4377965	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.165	117	2992362	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1954545	4.2042558	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.11%			
Target Compounds						Qvalue
2) Propene	4.091	41	2660714	28.8435604	ppbv	93
3) 1,1-DIFLUOROETHANE	4.100	65	83901	1.4292639	ppbv #	1
4) Dichlorodifluoromethane	4.155	85	3333335	18.7991489	ppbv	99
7) Chloromethane	4.489	50	146740	1.5700540	ppbv	98
13) Trichlorofluoromethane	5.769	101	59468608	347.4693792	ppbv	98
14) Ethanol	6.096	45	168370	10.8922068	ppbv #	34
15) 1,1,2-Trichlorotrifluo...	6.464	101	289387	1.8197089	ppbv	97
17) Acetone	6.572	43	15878410	57.5488187	ppbv	99
18) 2-Propanol	6.784	45	240189	1.2888113	ppbv #	74
19) Carbon Disulfide	6.779	76	241482	1.0100589	ppbv #	60
21) Methylene Chloride	7.125	49	42954	0.3789726	ppbv #	71
22) TERT-BUTYL ALCOHOL	7.271	59	267422	1.2931943	ppbv	97
25) n-Hexane	7.694	57	234168	1.6056062	ppbv #	1
29) 2-Butanone (MEK)	8.604	72	606169	14.1854450	ppbv	100
31) Tetrahydrofuran	8.928	42	364297	3.0090530	ppbv	99
32) Chloroform	8.930	83	94800	0.5826078	ppbv	98
36) 2,2,4-Trimethylpentane	9.545	57	176615	0.3623829	ppbv #	68
40) Heptane	9.734	43	252210	1.2799640	ppbv #	91
41) Trichloroethene	10.241	95	5106320	45.9399230	ppbv	97
46) 1,4-Dioxane	10.647	88	202673	4.0742228	ppbv #	100
49) 4-Methyl-2-Pentanone (...	11.423	43	258308	1.0125117	ppbv	91
50) Toluene	11.643	91	468465	1.3764270	ppbv	100
53) Tetrachloroethene	12.269	166	10432875	72.6411183	ppbv	96
54) Methyl Butyl Ketone	12.353	43	633901m	3.2543027	ppbv	
59) Ethylbenzene	13.258	91	2591529	7.1903532	ppbv	99
60) M&P-Xylene	13.371	91	10558823	38.7647981	ppbv	99
61) O-Xylene	13.777	91	5056885	18.2330753	ppbv	99
64) Isopropylbenzene	14.127	105	80998	0.2124871	ppbv #	57
66) n-Propylbenzene	14.545	91	64914	0.1435068	ppbv #	55
67) 4-Ethyltoluene	14.632	105	100530	0.2725724	ppbv #	46
70) 1,3,5-Trimethylbenzene	14.724	105	45789	0.1471279	ppbv #	27
72) 1,2,4-Trimethylbenzene	15.124	105	130807	0.4258726	ppbv	99
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	60984	0.1956803	ppbv #	33
83) Naphthalene	17.762	128	322986	1.9713923	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	403150685m	629.2535654	ppbv	

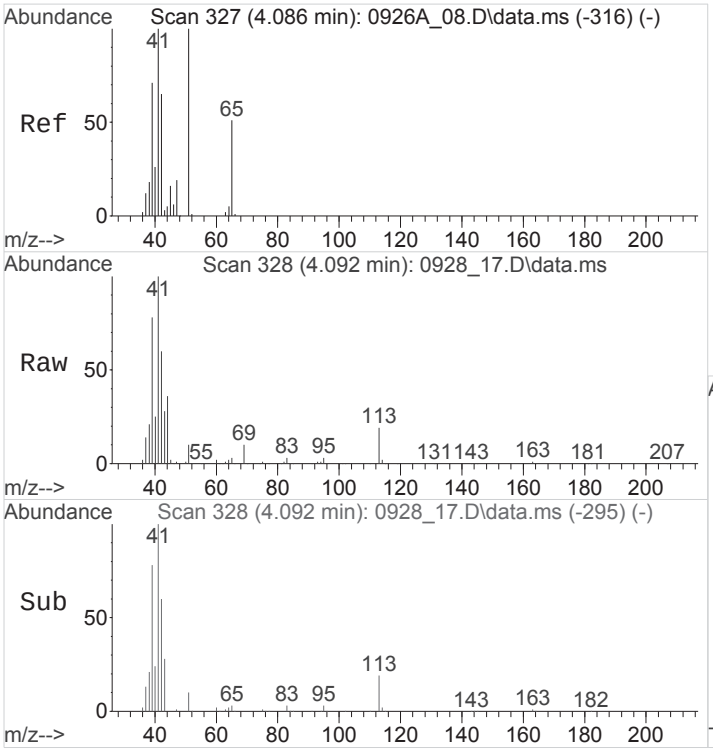
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_17.D
Acq On : 28 Sep 2016 7:01 pm
Operator : 564
Sample : L861822-13 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 17 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:24:52 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

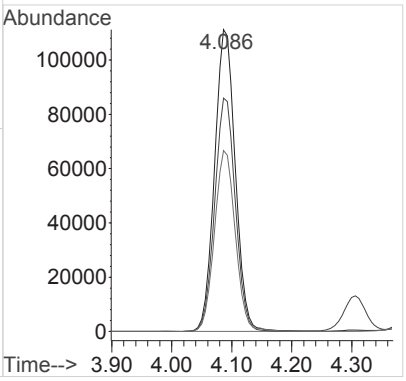


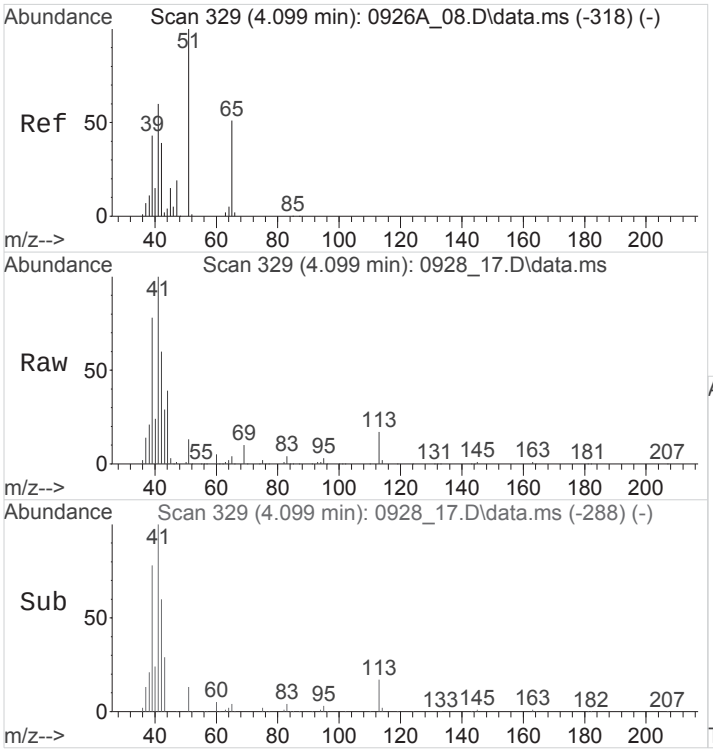


#2
Propene
Concen: 28.8435604 ppbv
RT: 4.091 min Scan# 328
Delta R.T. 0.002 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 41 Resp: 2660714

Ion	Ratio	Lower	Upper
41	100		
39	77.1	56.5	84.7
42	60.3	52.2	78.4

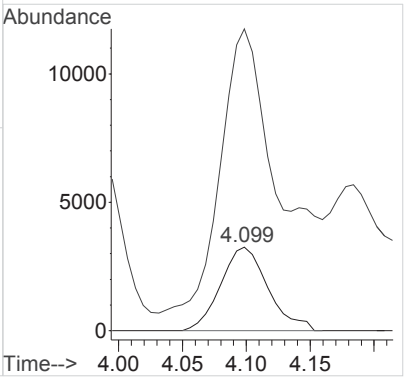


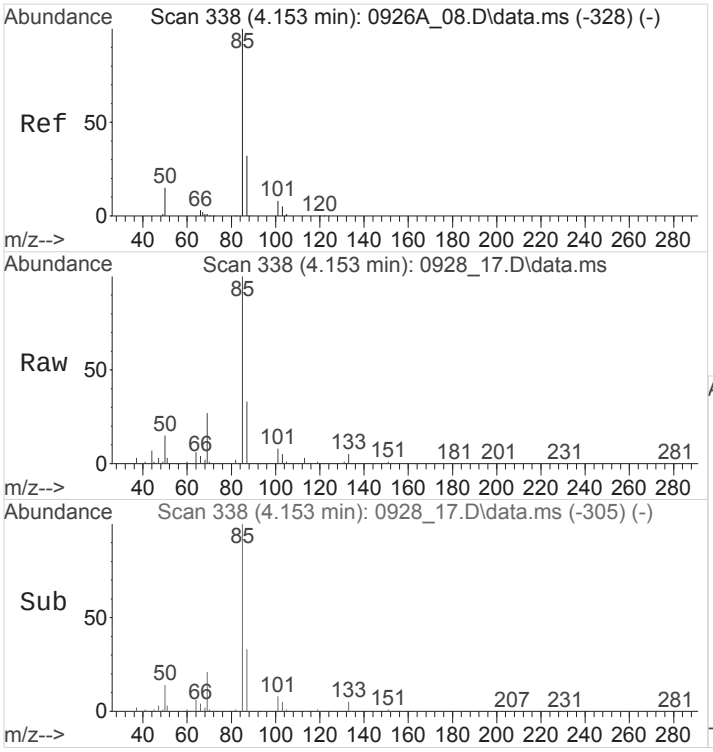


#3
1,1-DIFLUOROETHANE
Concen: 1.4292639 ppbv
RT: 4.100 min Scan# 329
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 65 Resp: 83901

Ion	Ratio	Lower	Upper
65	100		
51	357.2	154.7	232.1#

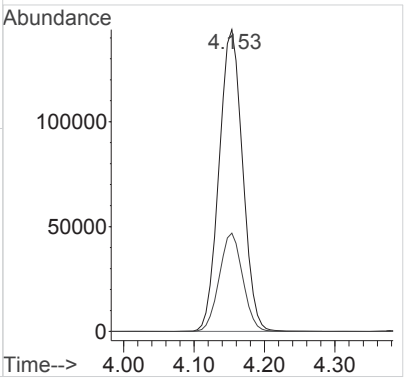


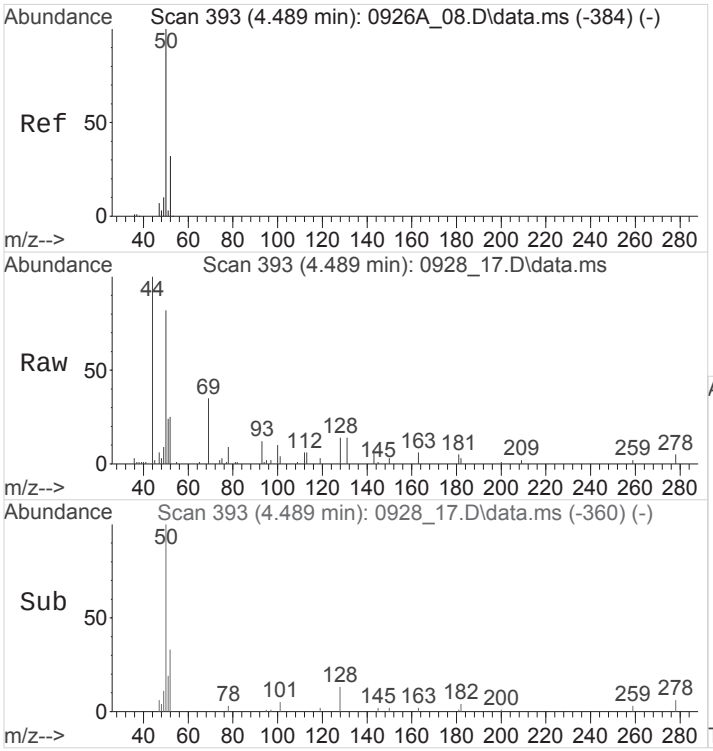


#4
Dichlorodifluoromethane
Concen: 18.7991489 ppbv
RT: 4.155 min Scan# 338
Delta R.T. 0.002 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 85 Resp: 3333335

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.8	38.6

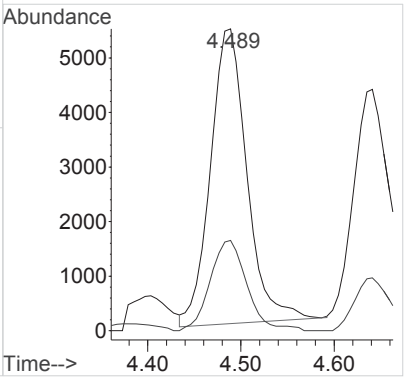


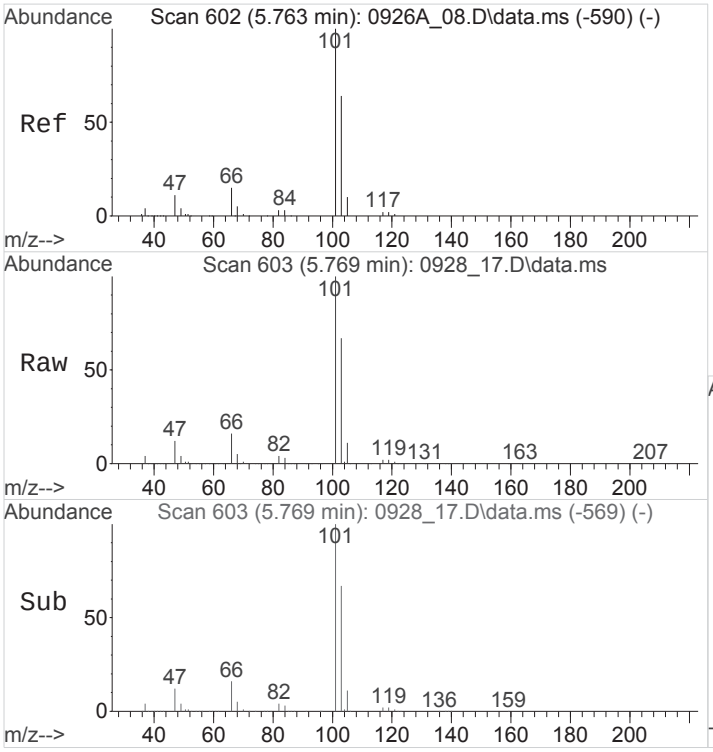


#7
Chloromethane
Concen: 1.5700540 ppbv
RT: 4.489 min Scan# 393
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 50 Resp: 146740

Ion	Ratio	Lower	Upper
50	100		
52	30.9	25.4	38.0

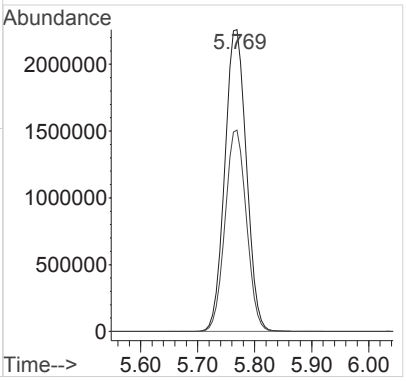


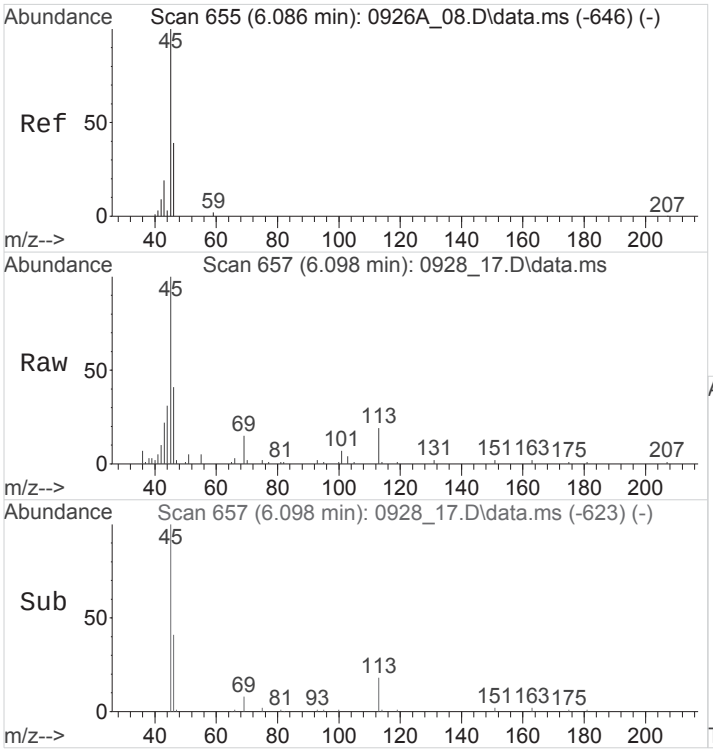


#13
Trichlorofluoromethane
Concen: 347.4693792 ppbv
RT: 5.769 min Scan# 603
Delta R.T. 0.008 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:101 Resp:59468608

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.7	77.5

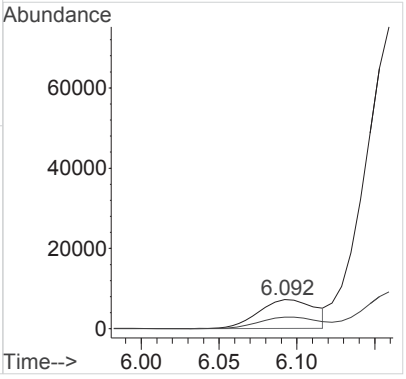


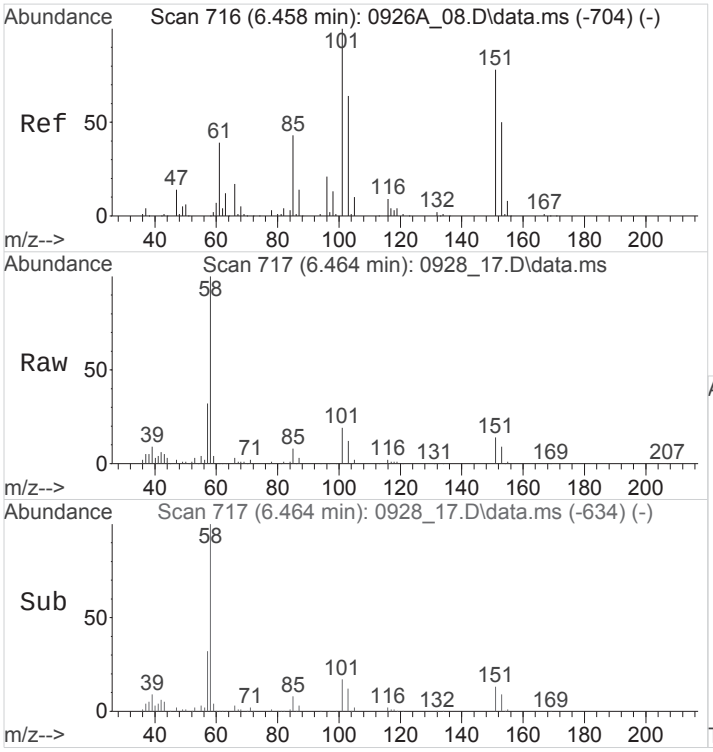


#14
Ethanol
Concen: 10.8922068 ppbv
RT: 6.096 min Scan# 657
Delta R.T. 0.008 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 45 Resp: 168370

Ion	Ratio	Lower	Upper
45	100		
46	0.0	33.0	49.4#

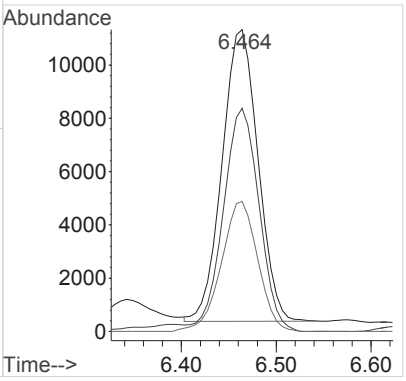


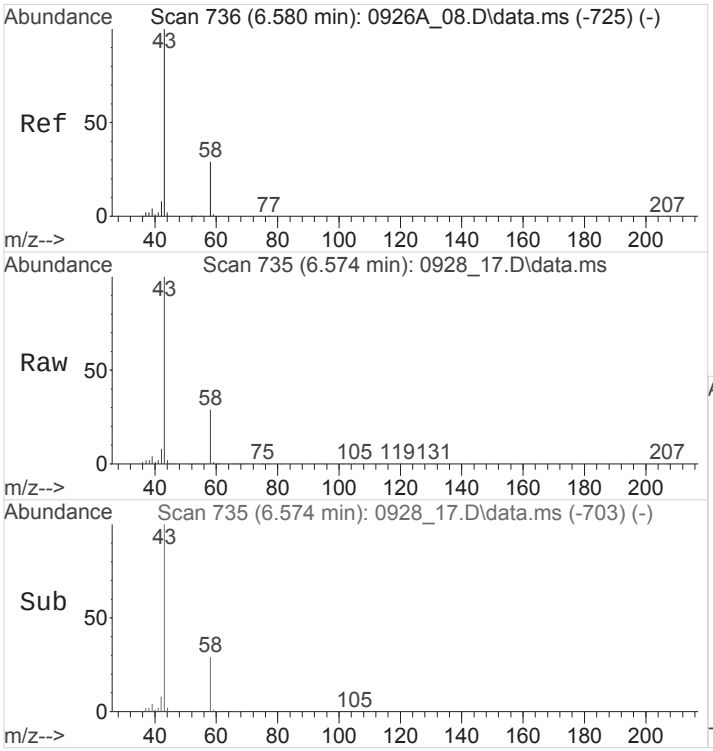


#15
1,1,2-Trichlorotrifluoroethane
Concen: 1.8197089 ppbv
RT: 6.464 min Scan# 717
Delta R.T. 0.007 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:101 Resp: 289387

Ion	Ratio	Lower	Upper
101	100		
151	79.6	61.6	92.4
85	45.0	34.5	51.7

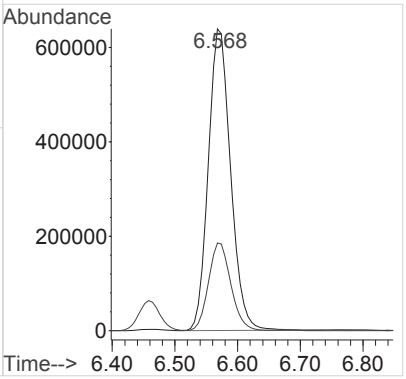


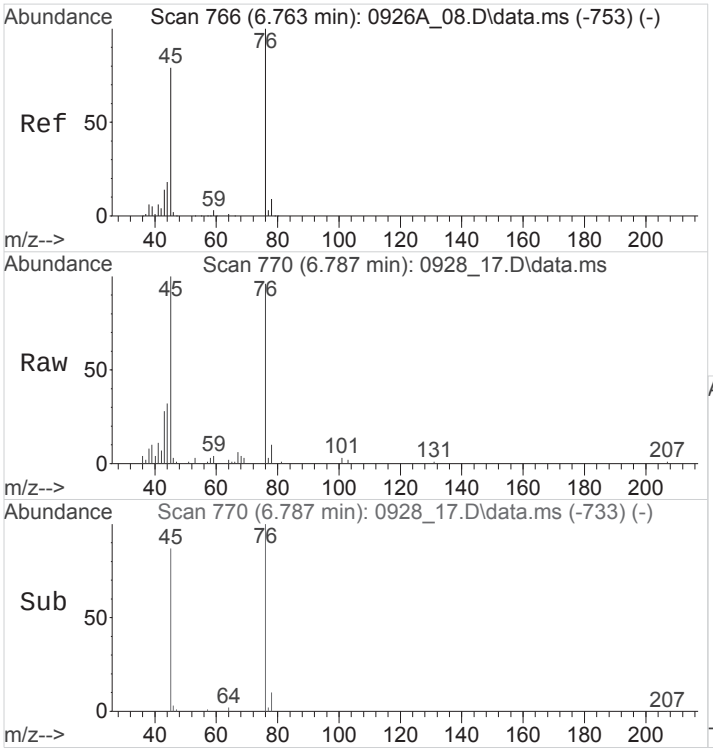


#17
Acetone
Concen: 57.5488187 ppbv
RT: 6.572 min Scan# 735
Delta R.T. -0.007 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 43 Resp:15878410

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.1	34.7

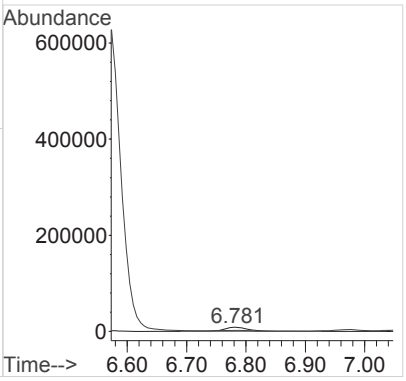


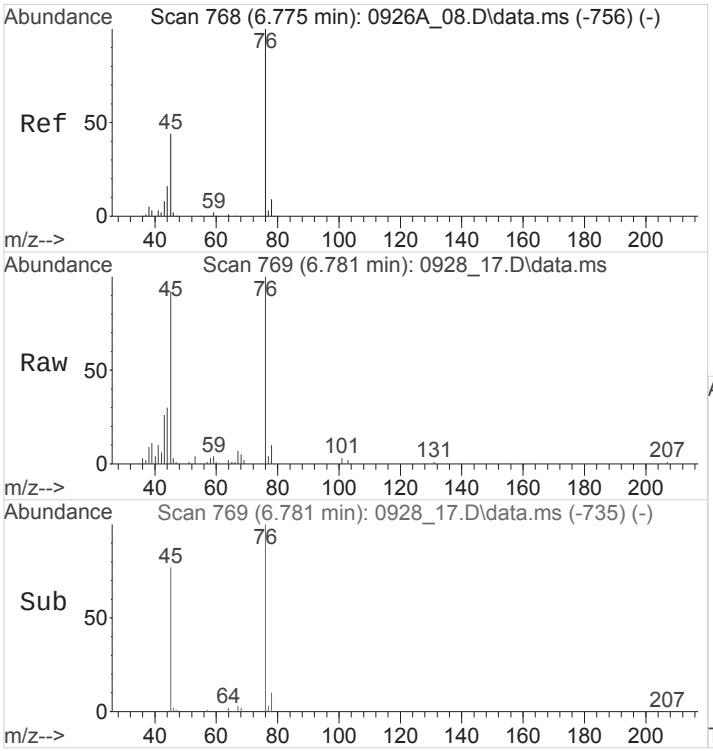


#18
2-Propanol
Concen: 1.2888113 ppbv
RT: 6.784 min Scan# 770
Delta R.T. 0.024 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 45 Resp: 240189

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

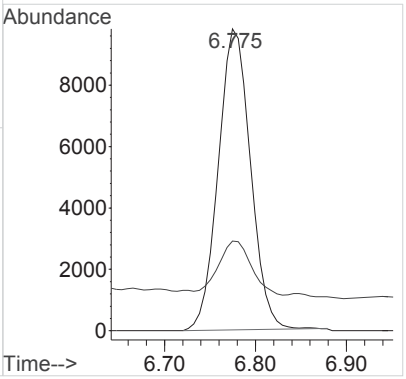


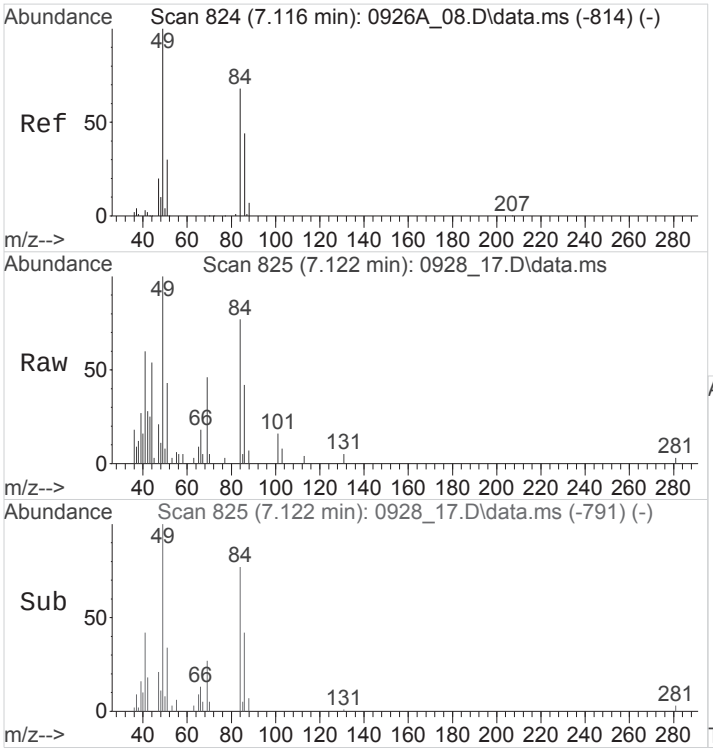


#19
Carbon Disulfide
Concen: 1.0100589 ppbv
RT: 6.779 min Scan# 769
Delta R.T. 0.004 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 76 Resp: 241482

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.2	21.2#

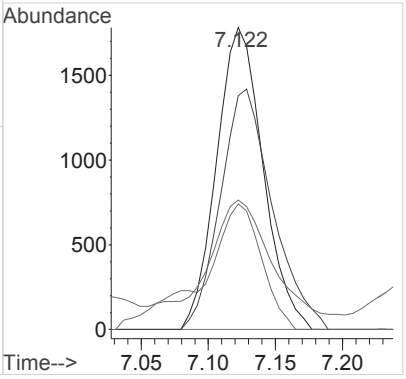


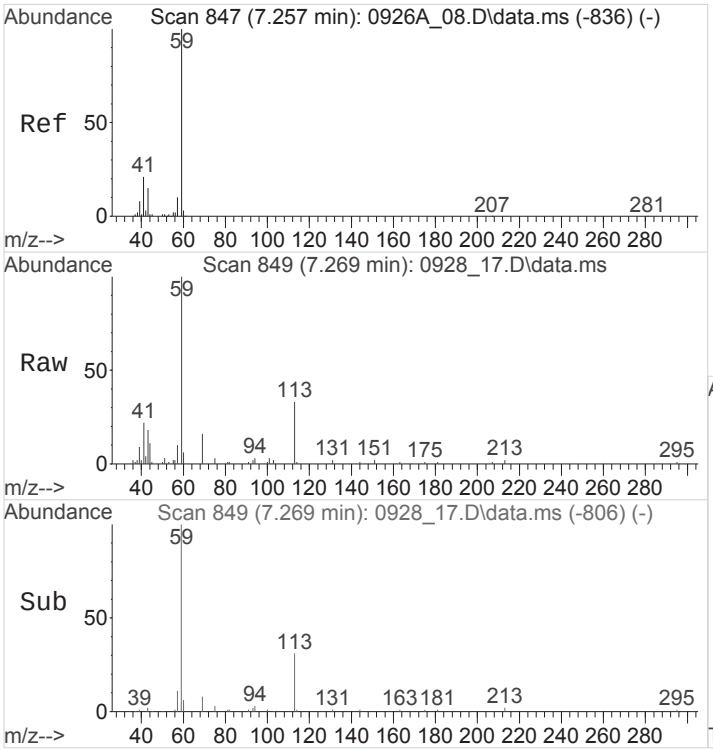


#21
Methylene Chloride
Concen: 0.3789726 ppbv
RT: 7.125 min Scan# 825
Delta R.T. 0.009 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 49 Resp: 42954

Ion	Ratio	Lower	Upper
49	100		
84	89.1	54.2	81.2#
86	53.1	35.1	52.7#
51	0.0	24.5	36.7#

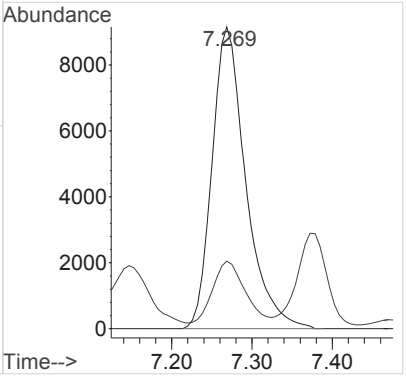


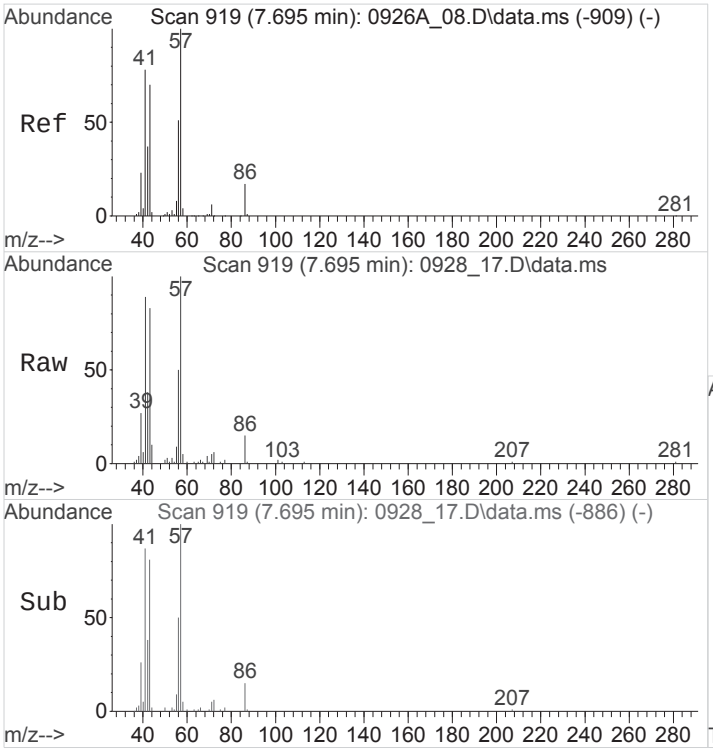


#22
TERT-BUTYL ALCOHOL
Concen: 1.2931943 ppbv
RT: 7.271 min Scan# 849
Delta R.T. 0.016 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 59 Resp: 267422

Ion	Ratio	Lower	Upper
59	100		
41	19.3	16.5	24.7

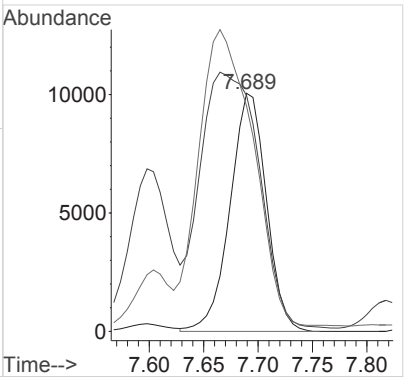


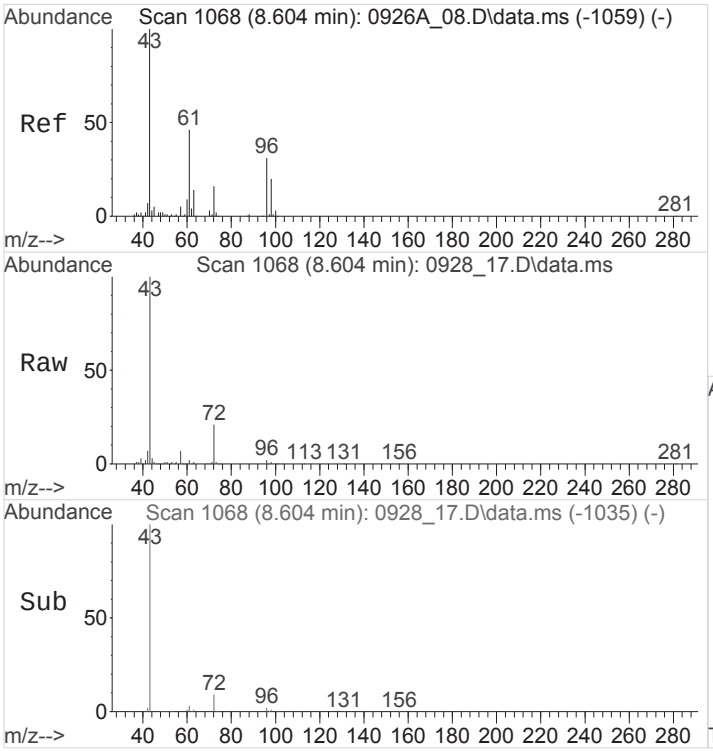


#25
n-Hexane
Concen: 1.6056062 ppbv
RT: 7.694 min Scan# 919
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 57 Resp: 234168

Ion	Ratio	Lower	Upper
57	100		
41	175.8	63.2	94.8#
43	186.7	56.0	84.0#

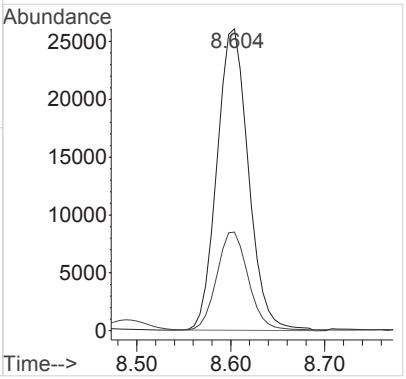


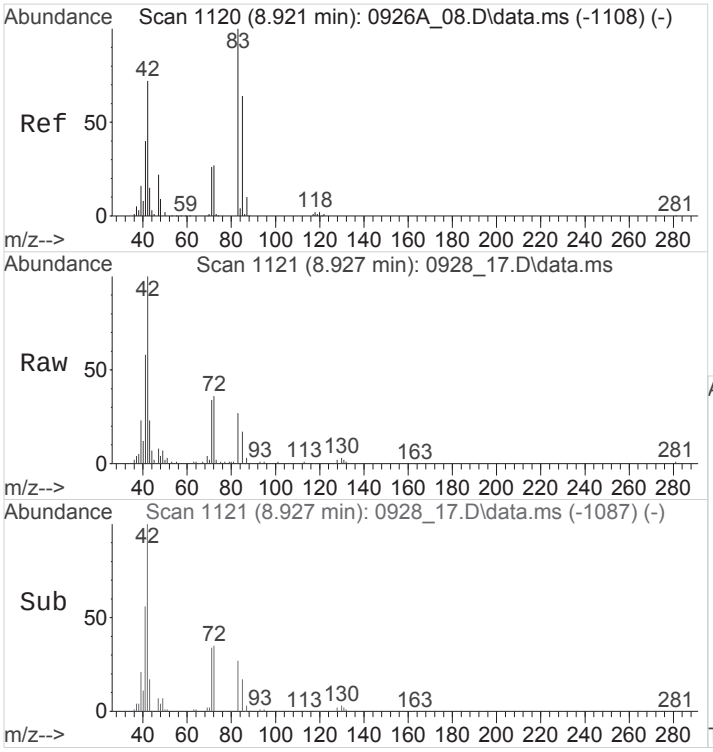


#29
2-Butanone (MEK)
Concen: 14.1854450 ppbv
RT: 8.604 min Scan# 1068
Delta R.T. 0.003 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 72 Resp: 606169

Ion	Ratio	Lower	Upper
72	100		
57	31.9	25.6	38.4

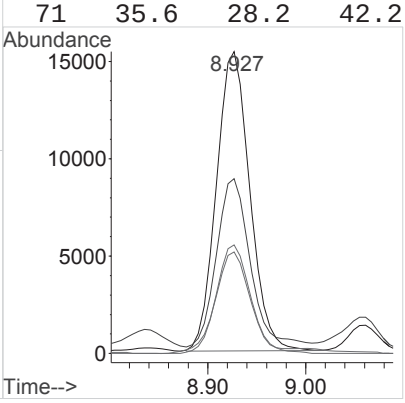


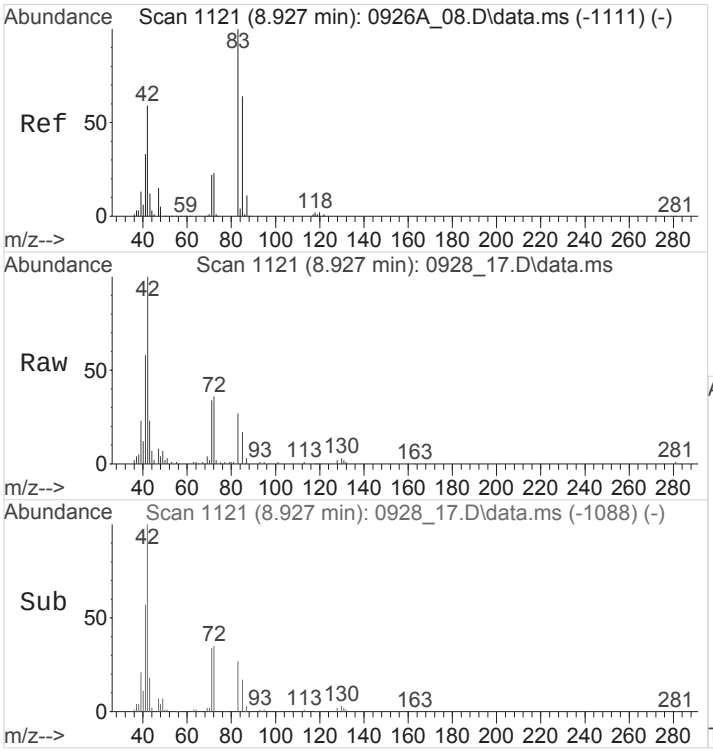


#31
Tetrahydrofuran
Concen: 3.0090530 ppbv
RT: 8.928 min Scan# 1121
Delta R.T. 0.009 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 42 Resp: 364297

Ion	Ratio	Lower	Upper
42	100		
41	54.7	44.2	66.4
72	37.1	29.6	44.4
71	35.6	28.2	42.2

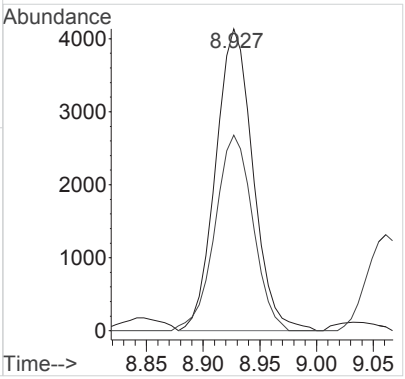


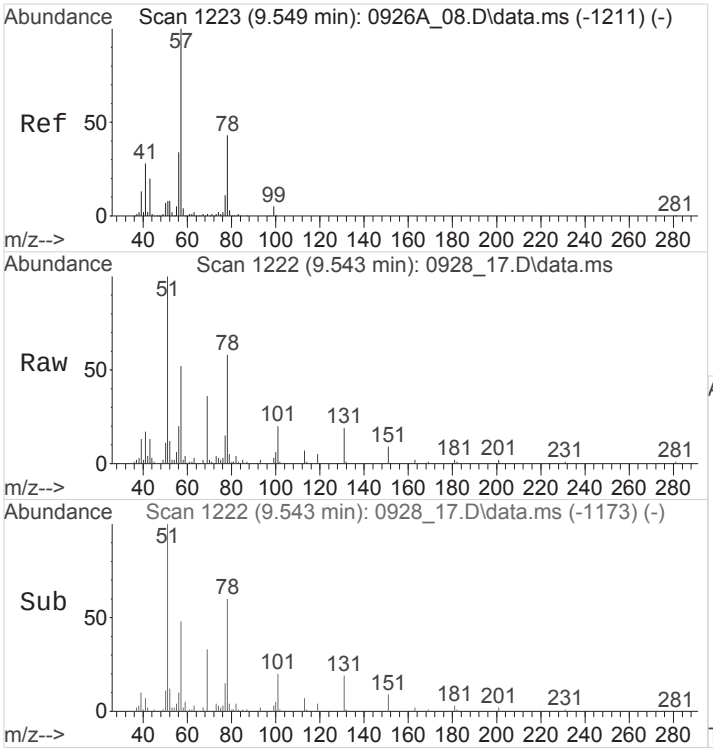


#32
Chloroform
Concen: 0.5826078 ppbv
RT: 8.930 min Scan# 1121
Delta R.T. 0.003 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 83 Resp: 94800

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.0	76.6

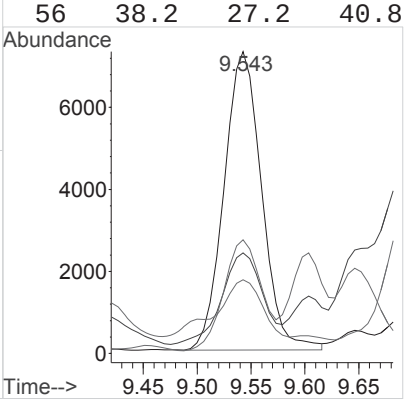


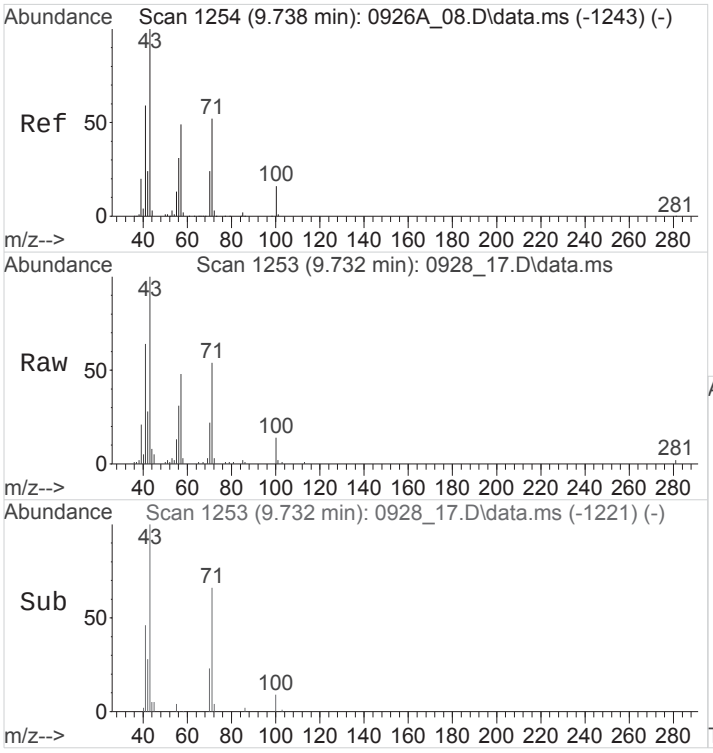


#36
2,2,4-Trimethylpentane
Concen: 0.3623829 ppbv
RT: 9.545 min Scan# 1222
Delta R.T. -0.002 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 57 Resp: 176615

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	38.2	27.2	40.8

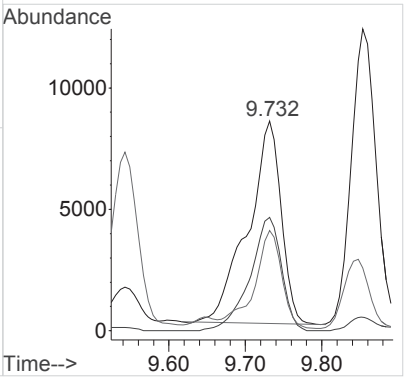


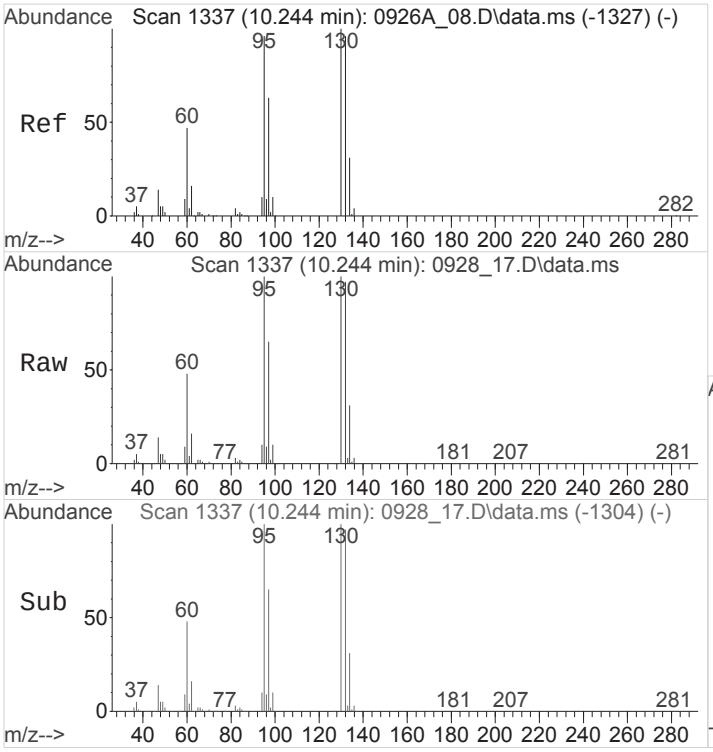


#40
Heptane
Concen: 1.2799640 ppbv
RT: 9.734 min Scan# 1253
Delta R.T. -0.003 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 43 Resp: 252210

Ion	Ratio	Lower	Upper
43	100		
71	53.0	41.4	62.0
57	37.6	39.3	58.9#

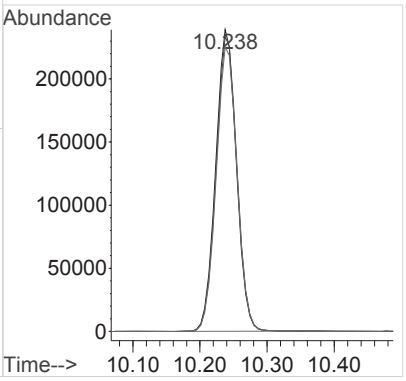


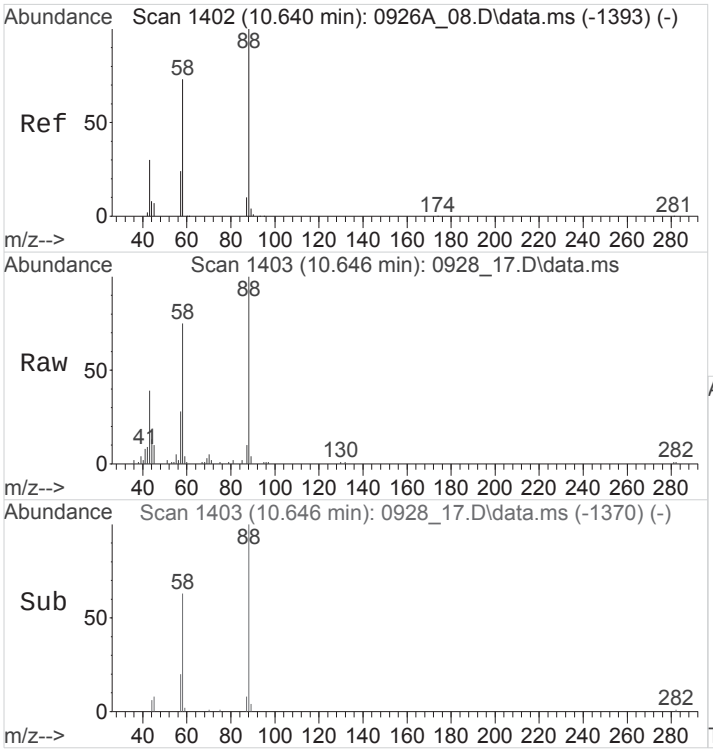


#41
Trichloroethene
Concen: 45.9399230 ppbv
RT: 10.241 min Scan# 1337
Delta R.T. 0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 95 Resp: 5106320

Ion	Ratio	Lower	Upper
95	100		
130	98.5	81.6	122.4
132	95.2	77.8	116.6

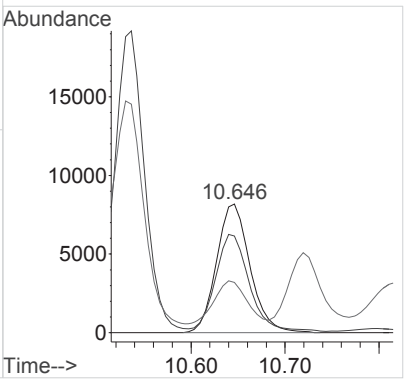


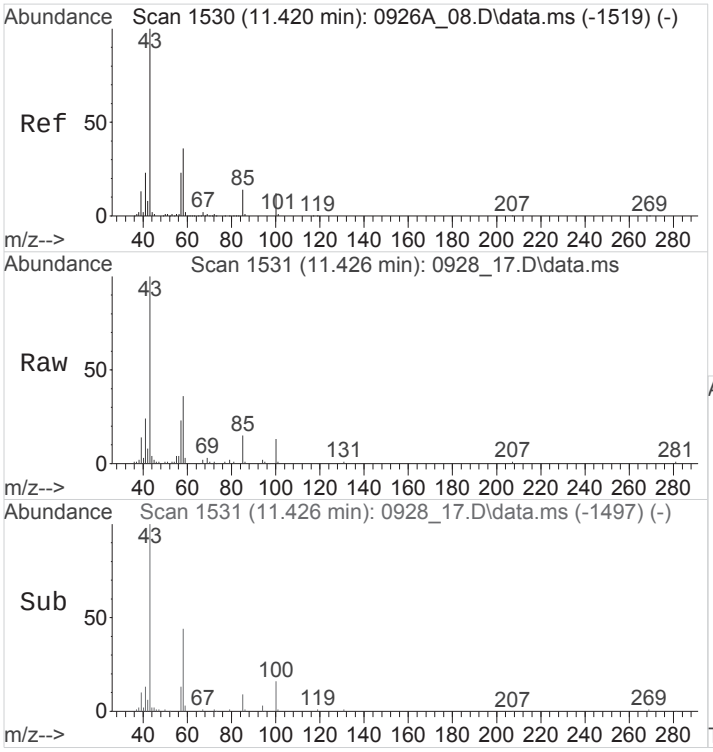


#46
1,4-Dioxane
Concen: 4.0742228 ppbv
RT: 10.647 min Scan# 1403
Delta R.T. 0.004 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 88 Resp: 202673

Ion	Ratio	Lower	Upper
88	100		
58	73.2	58.7	88.1
43	43.8	0.0	0.0#

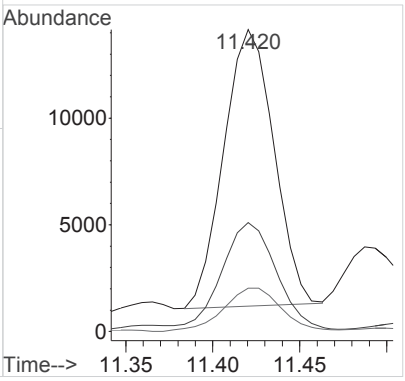


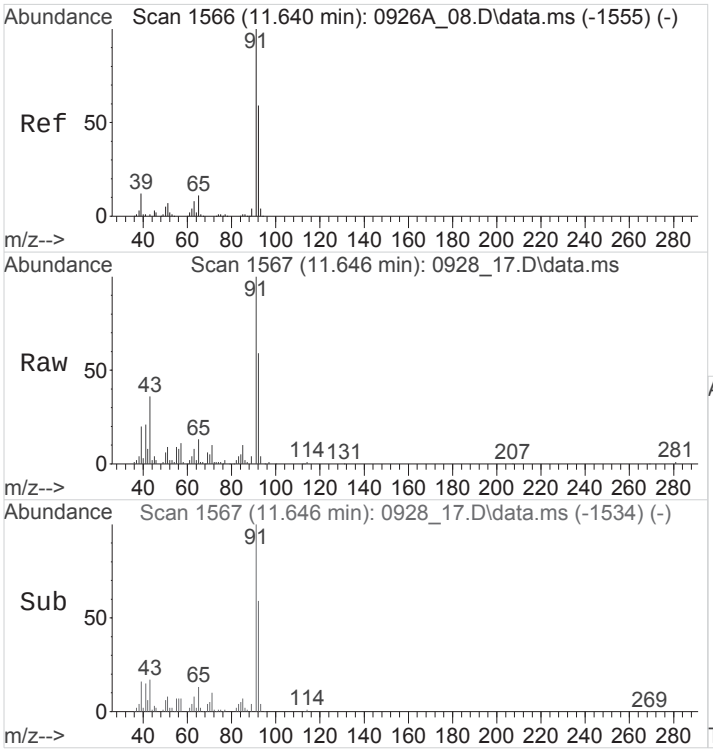


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 1.0125117 ppbv
RT: 11.423 min Scan# 1531
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 43 Resp: 258308

Ion	Ratio	Lower	Upper
43	100		
58	43.2	29.0	43.6
85	15.0	11.0	16.6

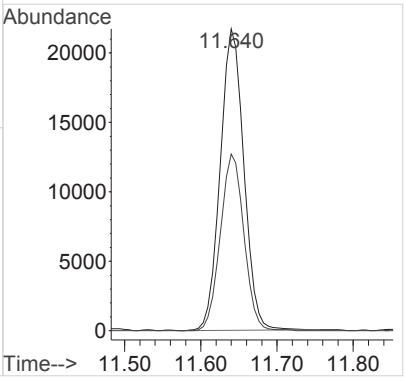


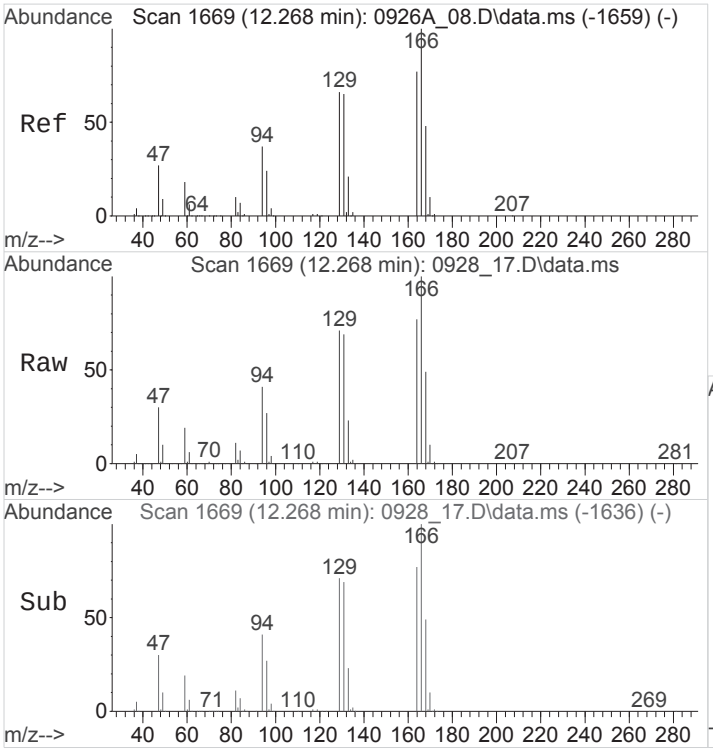


#50
Toluene
Concen: 1.3764270 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 91 Resp: 468465

Ion	Ratio	Lower	Upper
91	100		
92	58.4	46.6	70.0

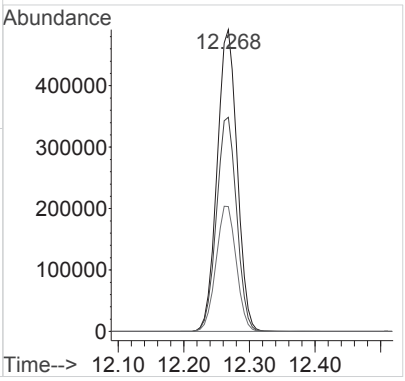


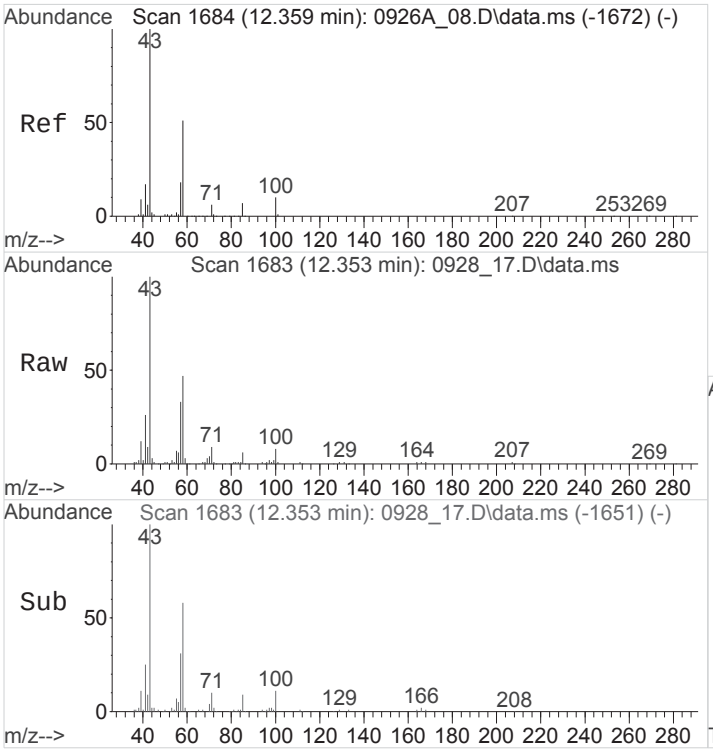


#53
Tetrachloroethene
Concen: 72.6411183 ppbv
RT: 12.269 min Scan# 1669
Delta R.T. 0.002 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:166 Resp:10432875

Ion	Ratio	Lower	Upper
166	100		
129	71.3	55.0	82.6
94	41.9	31.3	46.9

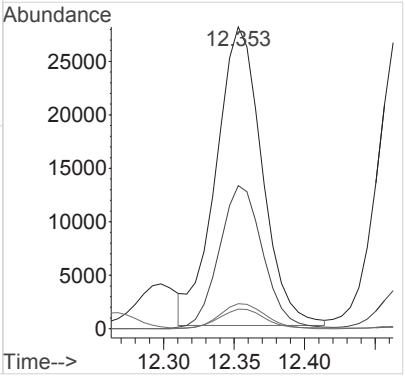


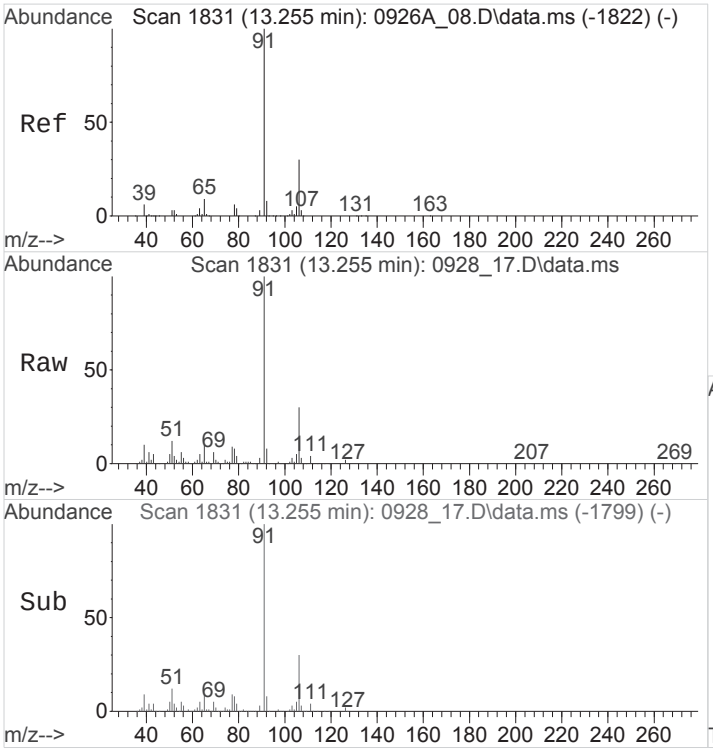


#54
Methyl Butyl Ketone
Concen: 3.2543027 ppbv m
RT: 12.353 min Scan# 1683
Delta R.T. -0.005 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 43 Resp: 633901

Ion	Ratio	Lower	Upper
43	100		
58	45.2	41.0	61.4
85	0.0	5.6	8.4#
100	8.3	7.8	11.8

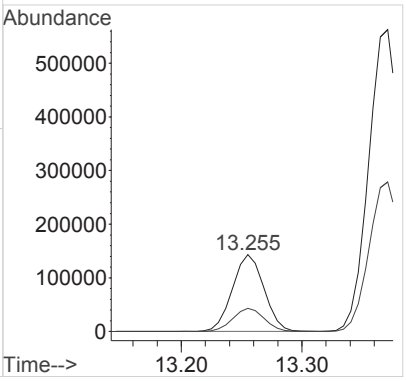


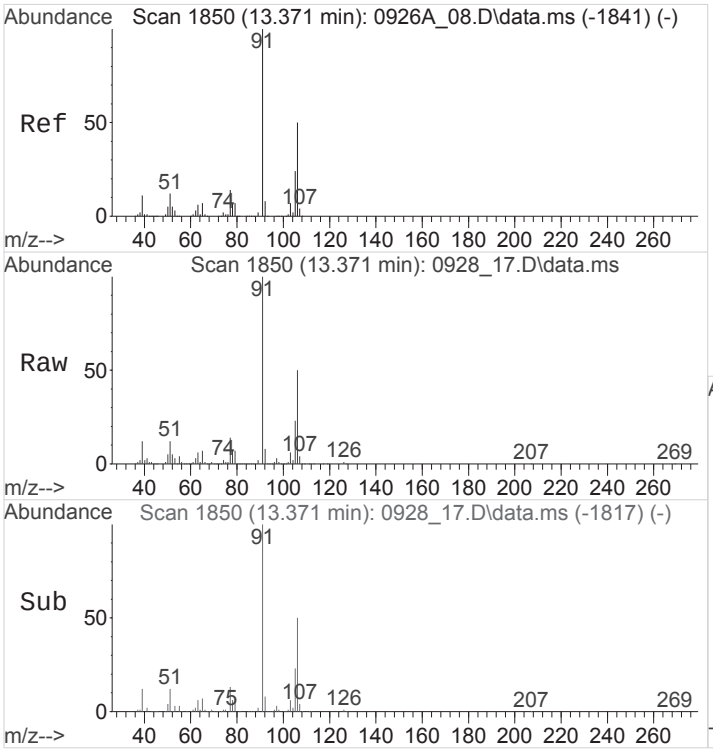


#59
Ethylbenzene
Concen: 7.1903532 ppbv
RT: 13.258 min Scan# 1831
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 91 Resp: 2591529

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

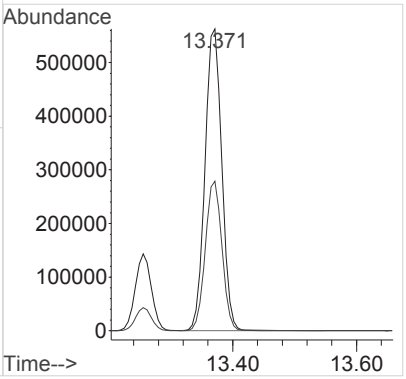


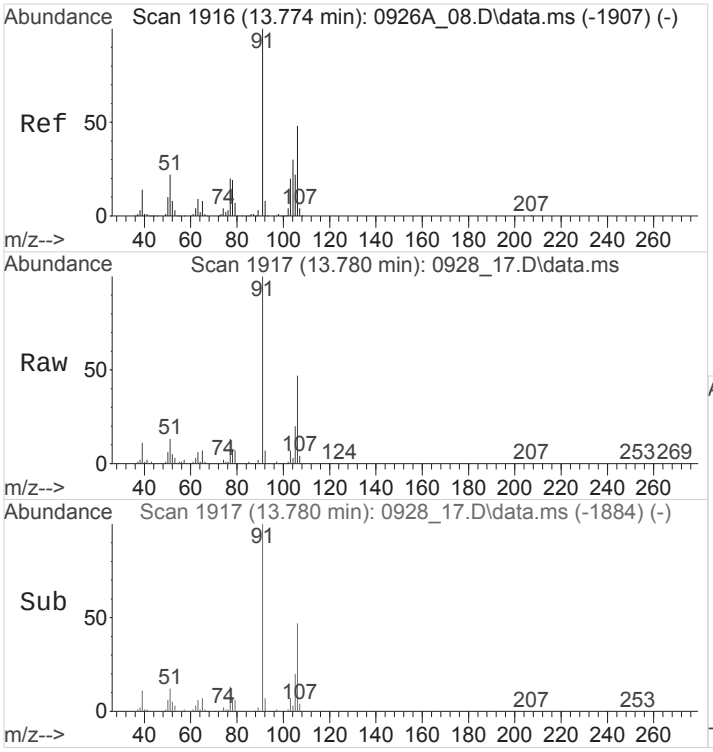


#60
M&P-Xylene
Concen: 38.7647981 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 91 Resp:10558823

Ion	Ratio	Lower	Upper
91	100		
106	49.2	39.8	59.6

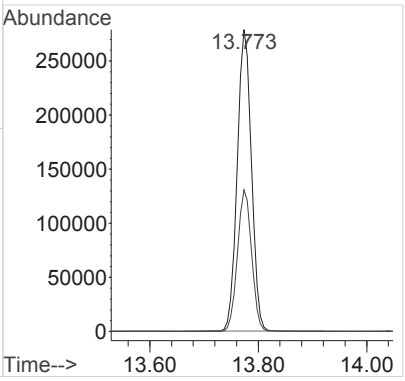


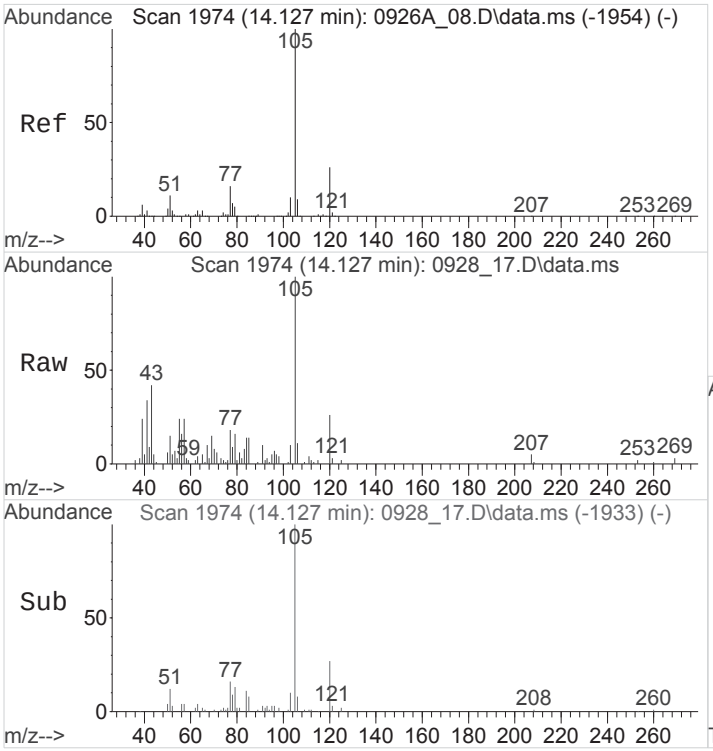


#61
O-Xylene
Concen: 18.2330753 ppbv
RT: 13.777 min Scan# 1917
Delta R.T. 0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 91 Resp: 5056885

Ion	Ratio	Lower	Upper
91	100		
106	46.7	38.2	57.2

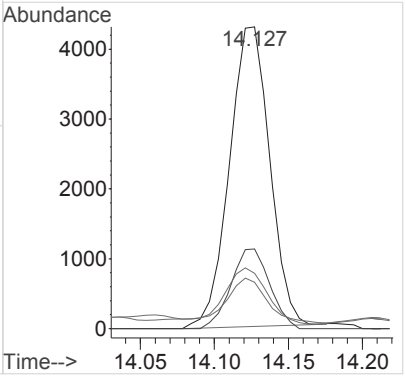


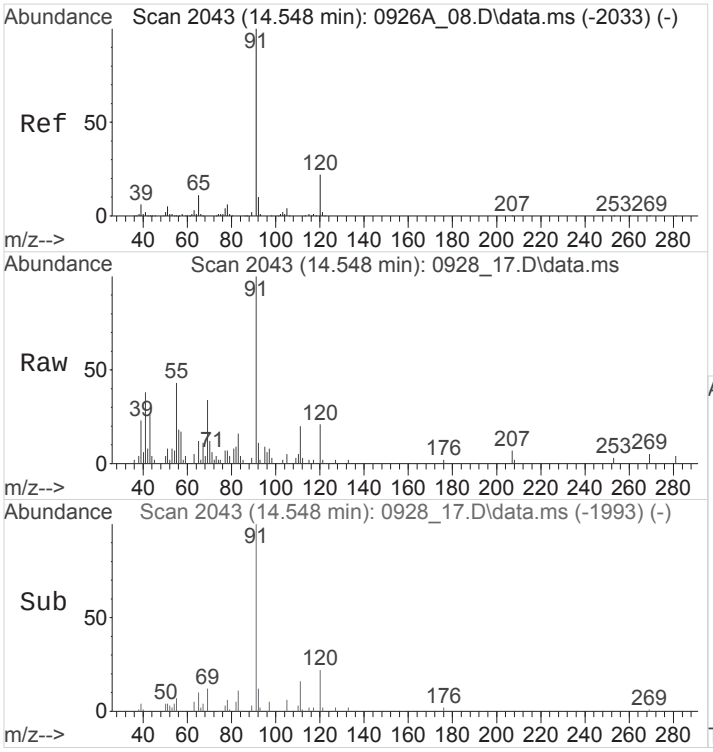


#64
Isopropylbenzene
Concen: 0.2124871 ppbv
RT: 14.127 min Scan# 1974
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:105 Resp: 80998

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.7	31.1#
77	0.0	13.0	19.4#
51	0.0	9.4	14.0#

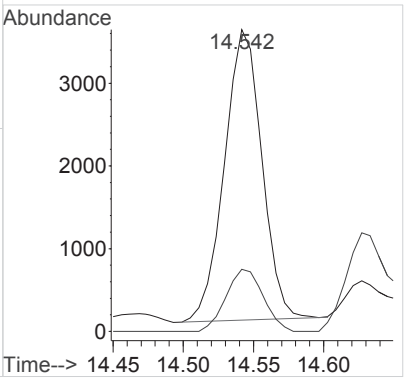


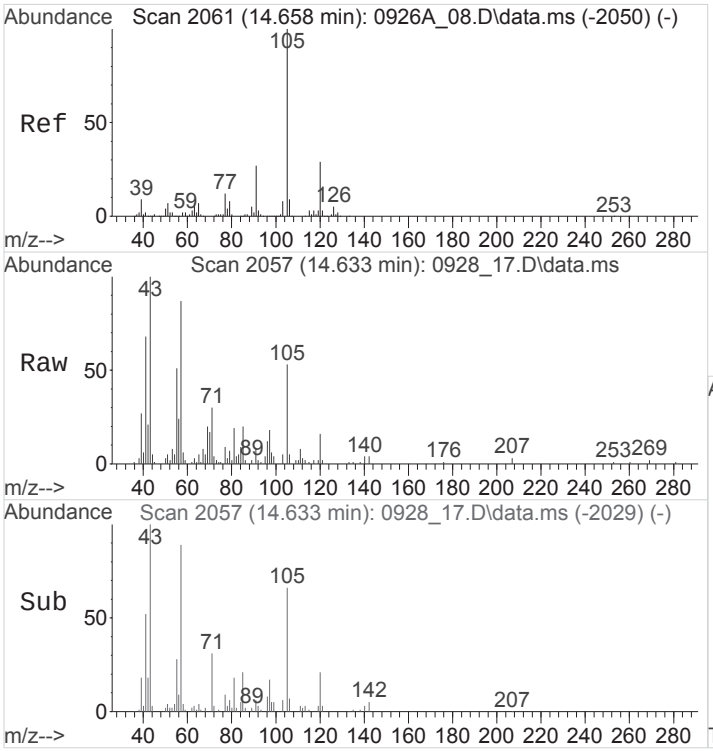


#66
n-Propylbenzene
Concen: 0.1435068 ppbv
RT: 14.545 min Scan# 2043
Delta R.T. 0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion: 91 Resp: 64914

Ion	Ratio	Lower	Upper
91	100		
120	42.5	17.1	25.7#

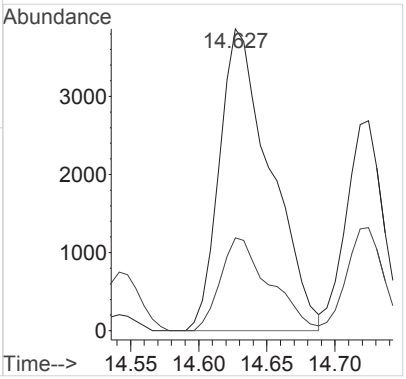


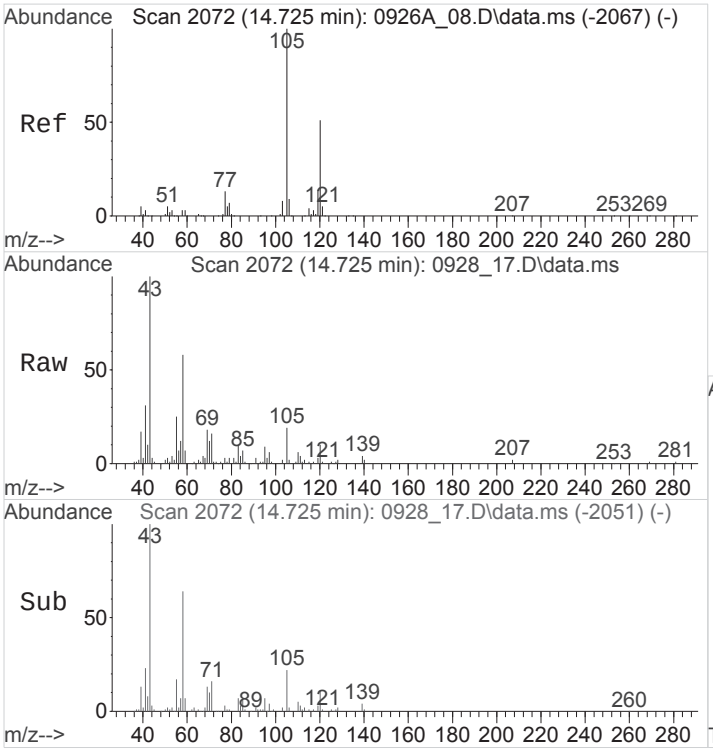


#67
4-Ethyltoluene
Concen: 0.2725724 ppbv
RT: 14.632 min Scan# 2057
Delta R.T. -0.029 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:105 Resp: 100530

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

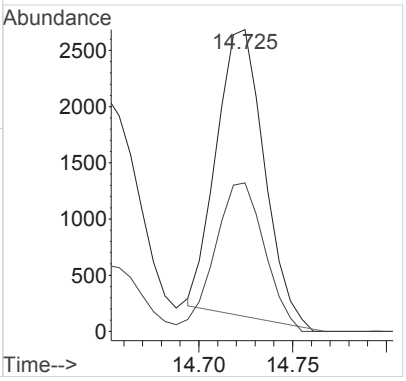


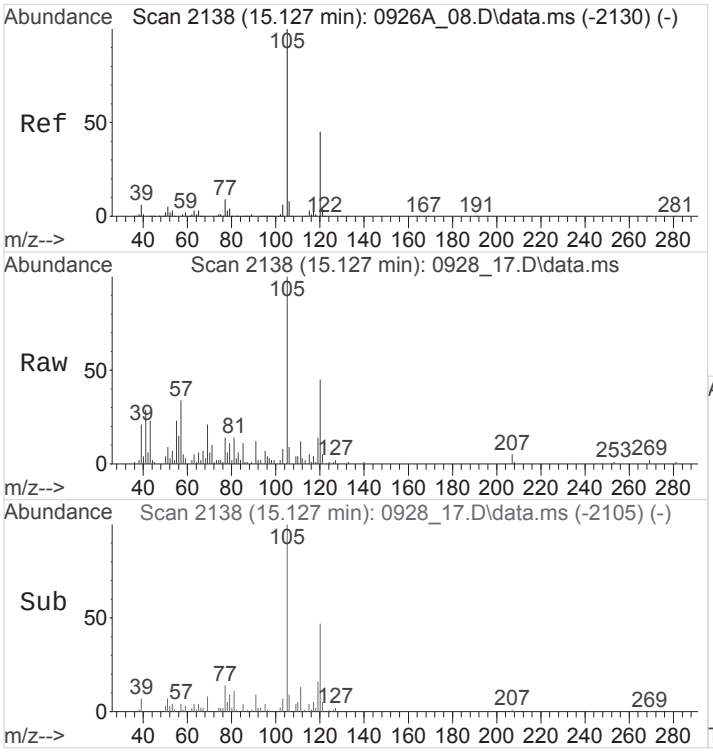


#70
1,3,5-Trimethylbenzene
Concen: 0.1471279 ppbv
RT: 14.724 min Scan# 2072
Delta R.T. 0.001 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:105 Resp: 45789

Ion	Ratio	Lower	Upper
105	100		
120	0.0	40.2	60.4#

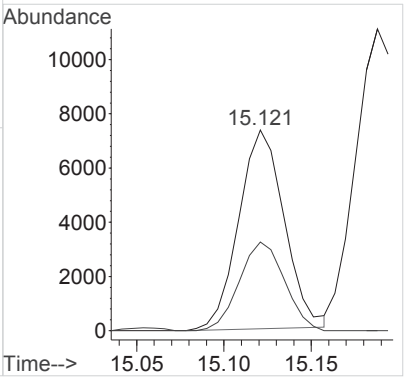


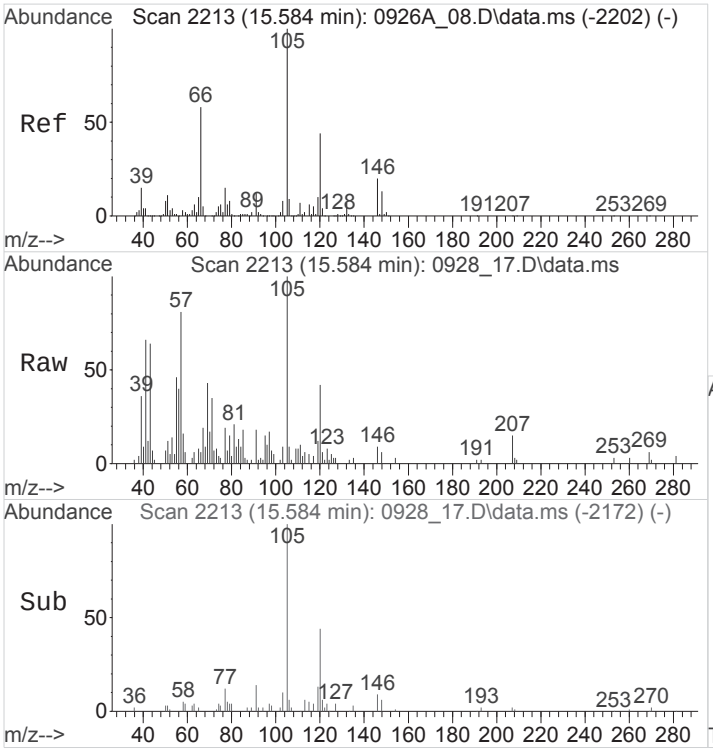


#72
1,2,4-Trimethylbenzene
Concen: 0.4258726 ppbv
RT: 15.124 min Scan# 2138
Delta R.T. -0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:105 Resp: 130807

Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.5	56.3

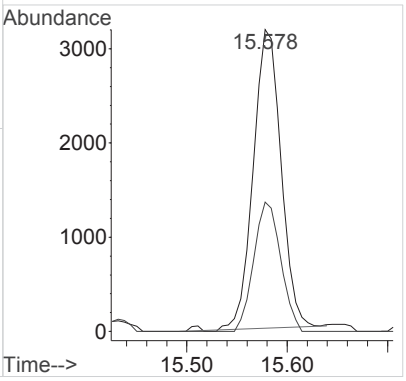


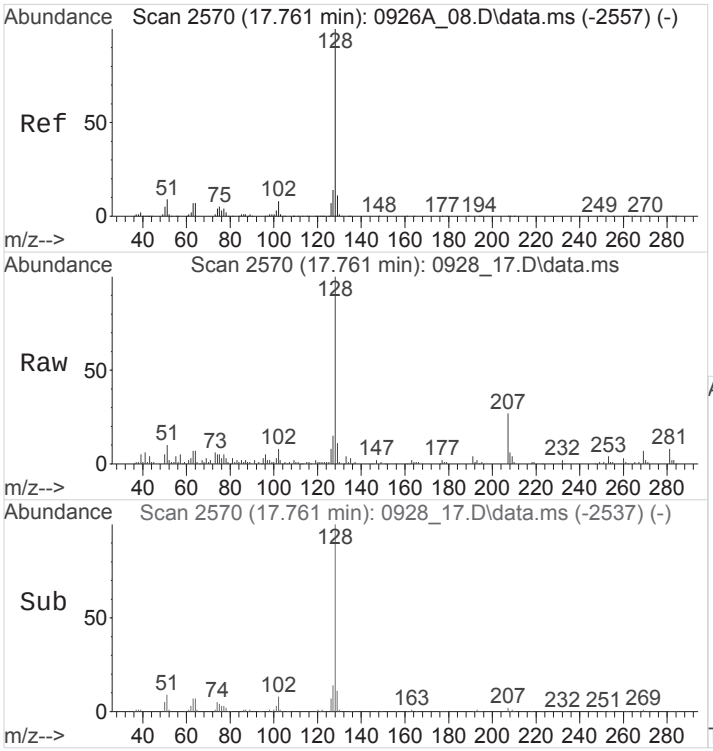


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.1956803 ppbv
RT: 15.583 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:105 Resp: 60984

Ion	Ratio	Lower	Upper
105	100		
120	0.0	34.6	52.0#

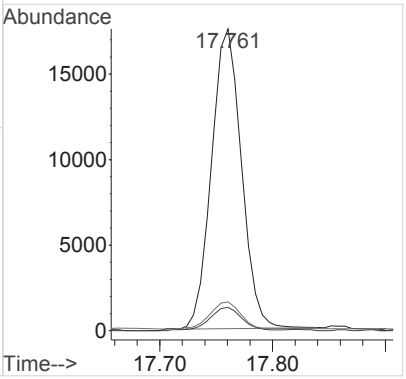


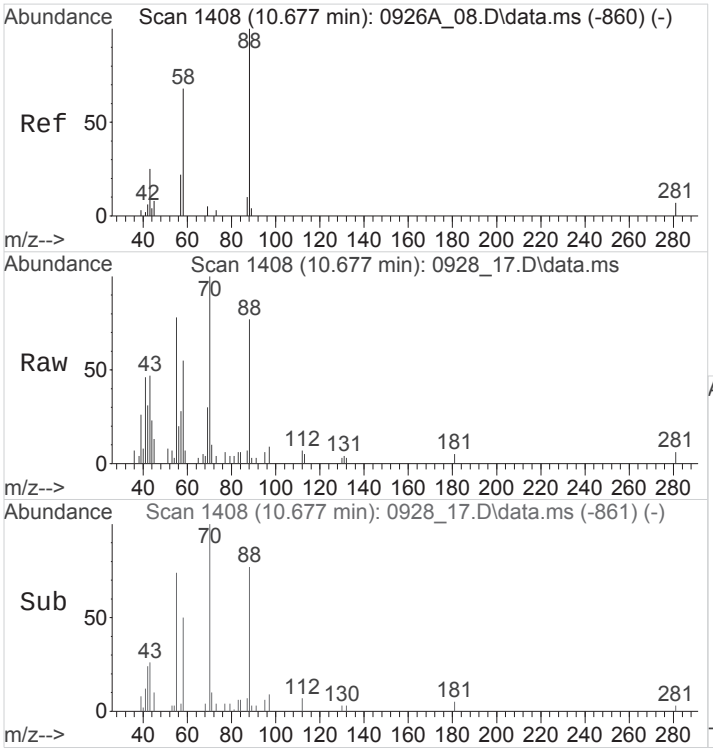


#83
Naphthalene
Concen: 1.9713923 ppbv
RT: 17.762 min Scan# 2570
Delta R.T. 0.002 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

Tgt Ion:128 Resp: 322986

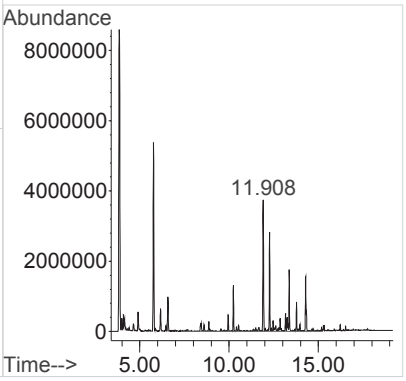
Ion	Ratio	Lower	Upper
128	100		
102	8.0	6.1	9.1
51	9.2	7.2	10.8





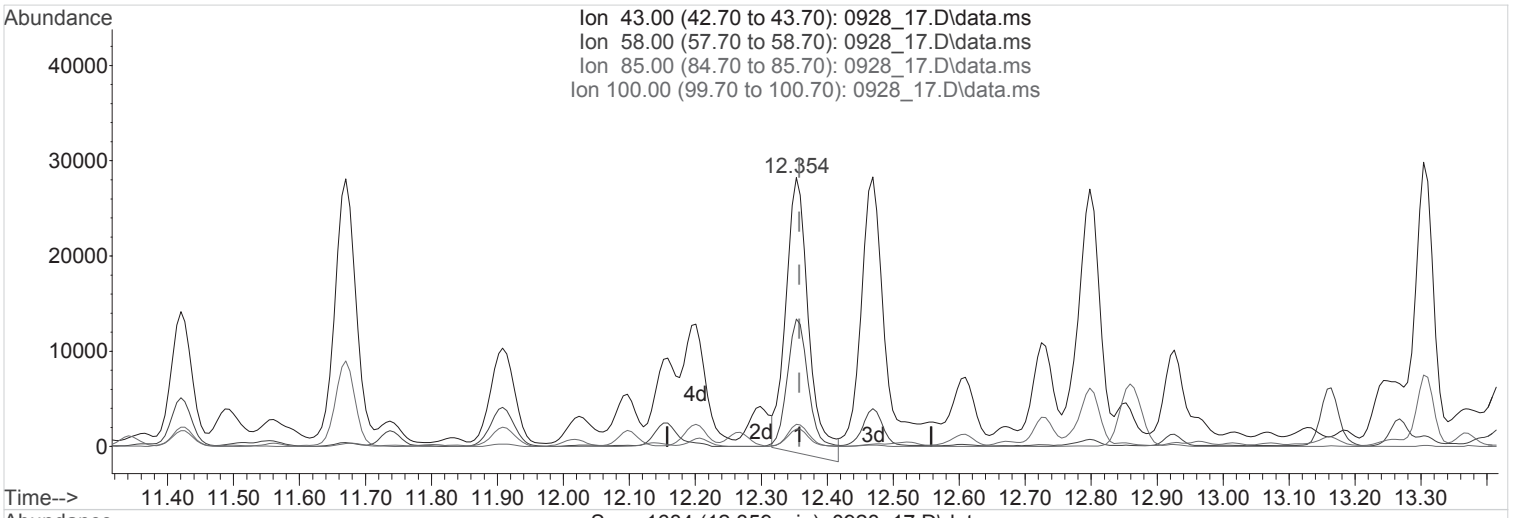
#84
TPH (GC/MS) Low Fraction
Concen: 629.2535654 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_17.D
Acq: 28 Sep 2016 7:01 pm

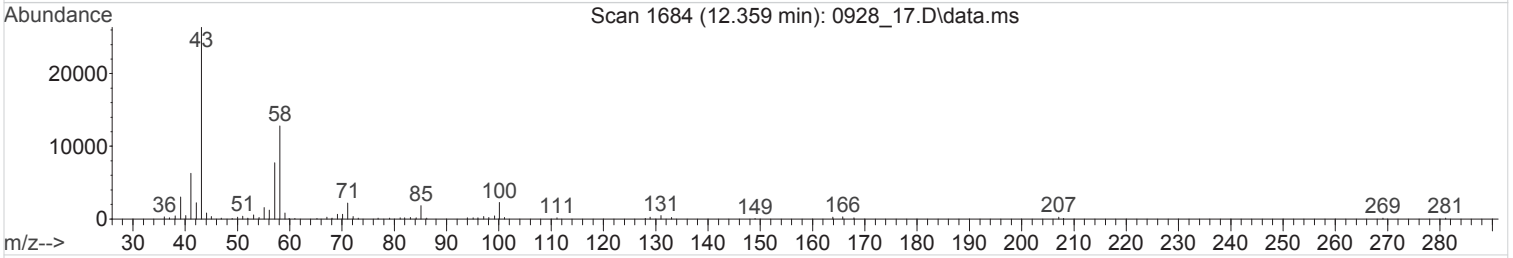
Tgt Ion:TIC Resp:403150685

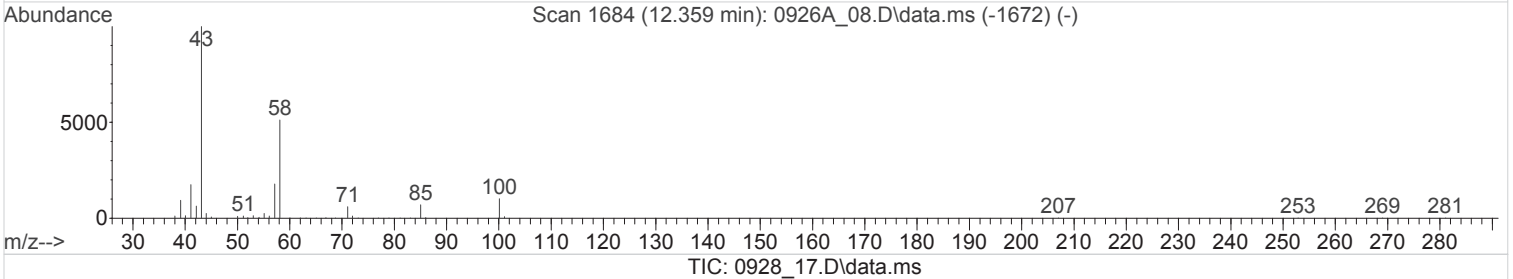


Data Path : C:\msdchem\1\data\092816\
Data File : 0928_17.D
Acq On : 28 Sep 2016 7:01 pm
Operator : 564
Sample : L861822-13 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_17.D\data.ms

(54) Methyl Butyl Ketone (T,M)

12.356min (-0.001) 1.8082729 ppbv

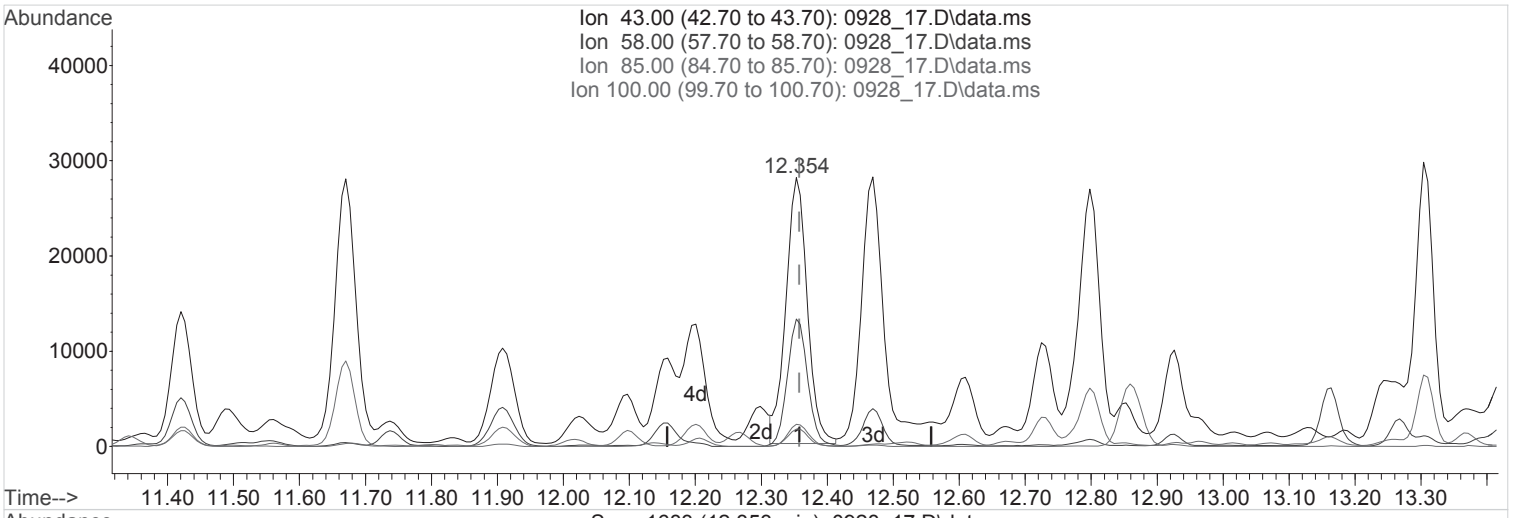
Qvalue = 86

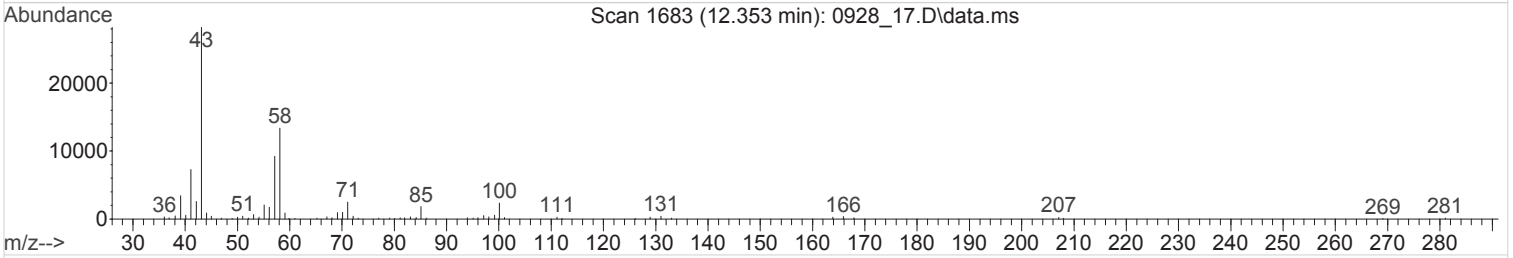
response 704462 Limit = 0.1364000

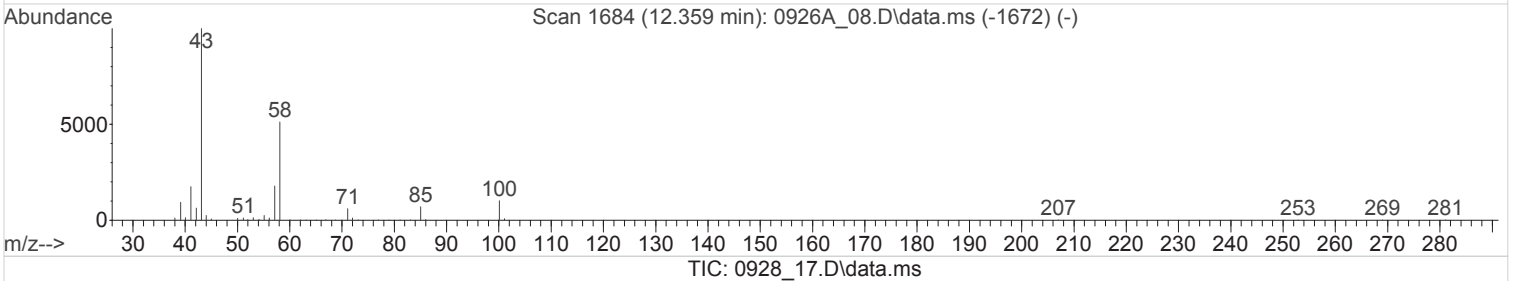
Ion	Exp%	Act%
43.00	100	100
58.00	51.20	40.65#
85.00	7.00	0.00#
100.00	9.80	7.51#

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_17.D
Acq On : 28 Sep 2016 7:01 pm
Operator : 564
Sample : L861822-13 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_17.D\data.ms

(54) Methyl Butyl Ketone (T,M)

12.353min (-0.005) 1.6271514 ppbv m

response 633901 Limit = 0.1364000

Ion	Exp%	Act%
43.00	100	100
58.00	51.20	45.18
85.00	7.00	0.00#
100.00	9.80	8.35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_18.D
Acq On : 28 Sep 2016 7:47 pm
Operator : 564
Sample : L861822-14 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 18 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:26:30 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

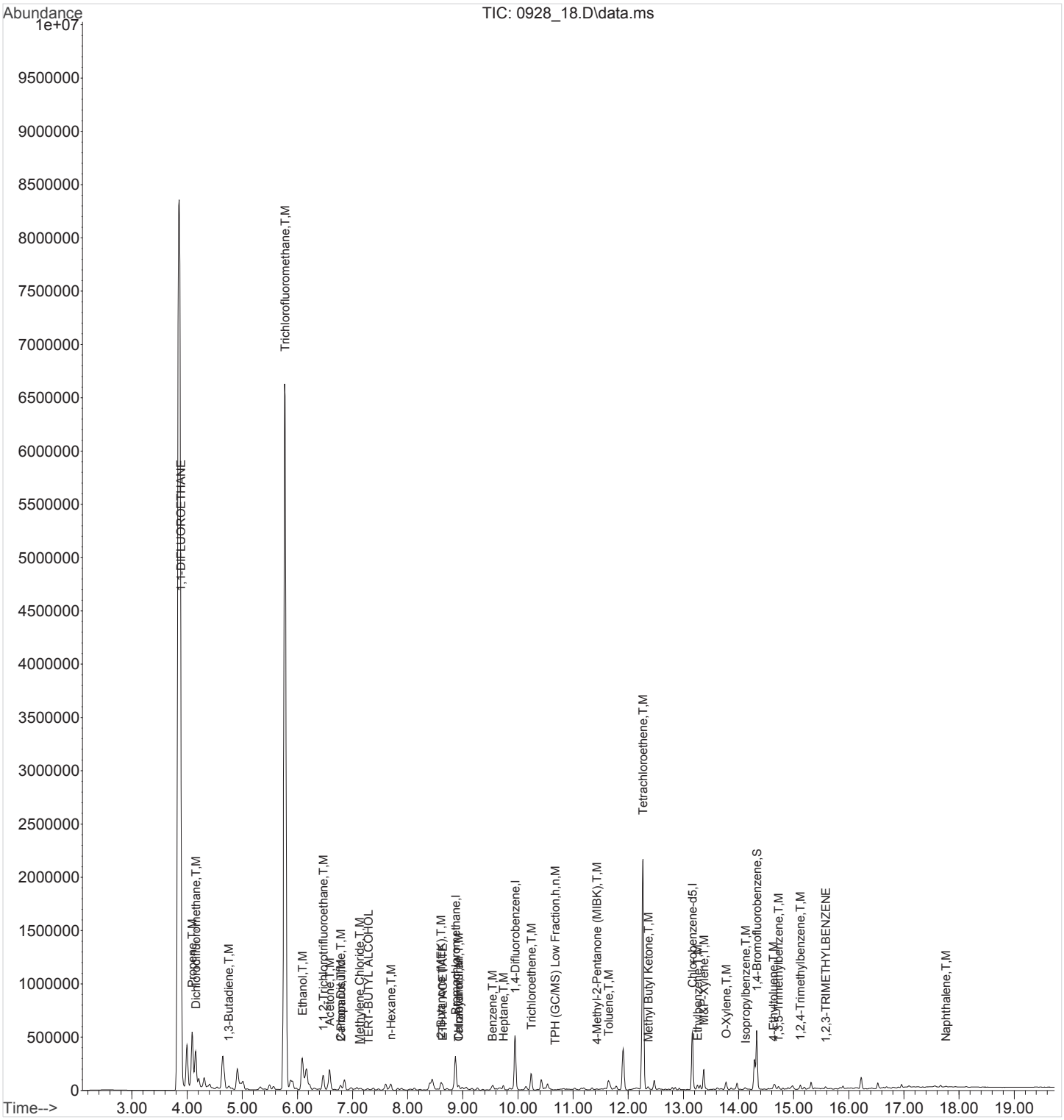
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.869	130	1118960	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.950	114	4637354	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3301437	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2061729	4.0196312	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.49%			
Target Compounds						Qvalue
2) Propene	4.094	41	3295977	34.2423486	ppbv	95
3) 1,1-DIFLUOROETHANE	3.885	65	193441	3.1580911	ppbv #	1
4) Dichlorodifluoromethane	4.159	85	3603863	19.4785252	ppbv	100
9) 1,3-Butadiene	4.758	39	143751	1.6239088	ppbv #	74
13) Trichlorofluoromethane	5.774	101	73618194	412.2327509	ppbv	98
14) Ethanol	6.089	45	4922686	305.1983515	ppbv	97
15) 1,1,2-Trichlorotrifluo...	6.469	101	541112	3.2609022	ppbv	97
17) Acetone	6.585	43	2978709	10.3463228	ppbv	99
18) 2-Propanol	6.793	45	372937	1.9177901	ppbv #	74
19) Carbon Disulfide	6.785	76	283928	1.1381460	ppbv #	92
21) Methylene Chloride	7.126	49	51000	0.4312240	ppbv #	71
22) TERT-BUTYL ALCOHOL	7.287	59	153664	0.7121411	ppbv #	3
25) n-Hexane	7.698	57	274225	1.8019717	ppbv #	42
28) ETHYL ACETATE	8.635	70	58399	2.1841253	ppbv #	1
29) 2-Butanone (MEK)	8.607	72	213135	4.7800535	ppbv	99
31) Tetrahydrofuran	8.929	42	196126	1.5525260	ppbv	98
32) Chloroform	8.929	83	79253	0.4667843	ppbv	98
38) Benzene	9.538	78	209483	0.6930737	ppbv #	12
40) Heptane	9.736	43	257218	1.2323654	ppbv #	89
41) Trichloroethene	10.242	95	611387	5.1927828	ppbv	96
49) 4-Methyl-2-Pentanone (...	11.433	43	63862	0.2363255	ppbv #	81
50) Toluene	11.643	91	705925	1.9581082	ppbv	99
53) Tetrachloroethene	12.268	166	8084147	53.1391652	ppbv	96
54) Methyl Butyl Ketone	12.363	43	217555	1.0544042	ppbv #	95
59) Ethylbenzene	13.258	91	254474	0.6399545	ppbv #	44
60) M&P-Xylene	13.371	91	1147145	3.8172583	ppbv	100
61) O-Xylene	13.777	91	399277	1.3048535	ppbv	98
64) Isopropylbenzene	14.126	105	93363	0.2219958	ppbv #	57
66) n-Propylbenzene	14.545	91	48768	0.0977187	ppbv #	1
67) 4-Ethyltoluene	14.631	105	166204	0.4084511	ppbv #	46
70) 1,3,5-Trimethylbenzene	14.724	105	81162	0.2363706	ppbv	98
72) 1,2,4-Trimethylbenzene	15.124	105	221236	0.6528553	ppbv	99
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	59556	0.1732072	ppbv #	33
83) Naphthalene	17.763	128	56107	0.3103990	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	141136620m	199.6682960	ppbv	

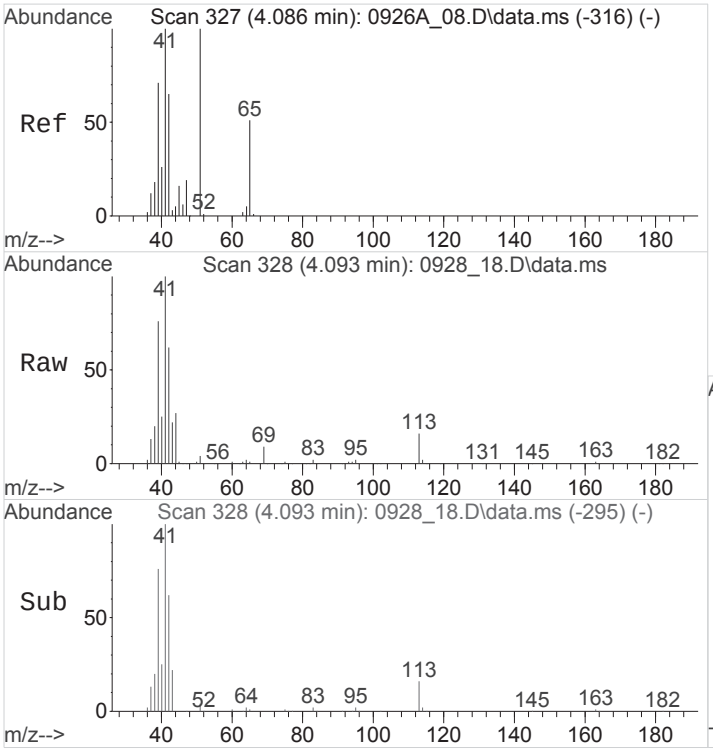
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_18.D
Acq On : 28 Sep 2016 7:47 pm
Operator : 564
Sample : L861822-14 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 18 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:26:30 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

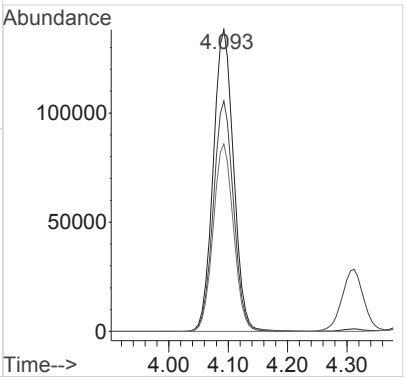


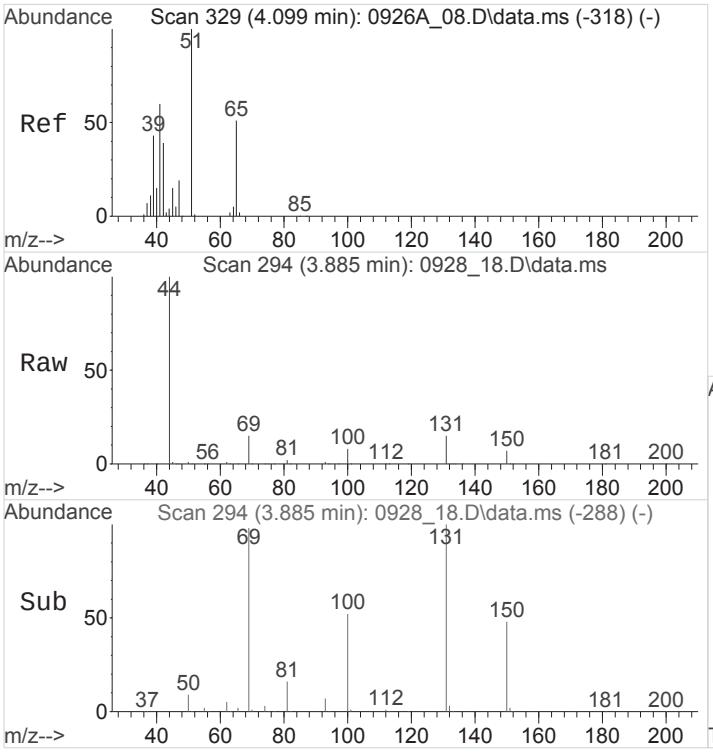


#2
Propene
Concen: 34.2423486 ppbv
RT: 4.094 min Scan# 328
Delta R.T. 0.005 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 41 Resp: 3295977

Ion	Ratio	Lower	Upper
41	100		
39	75.5	56.5	84.7
42	62.3	52.2	78.4

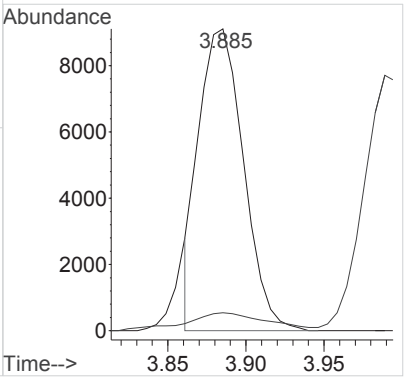


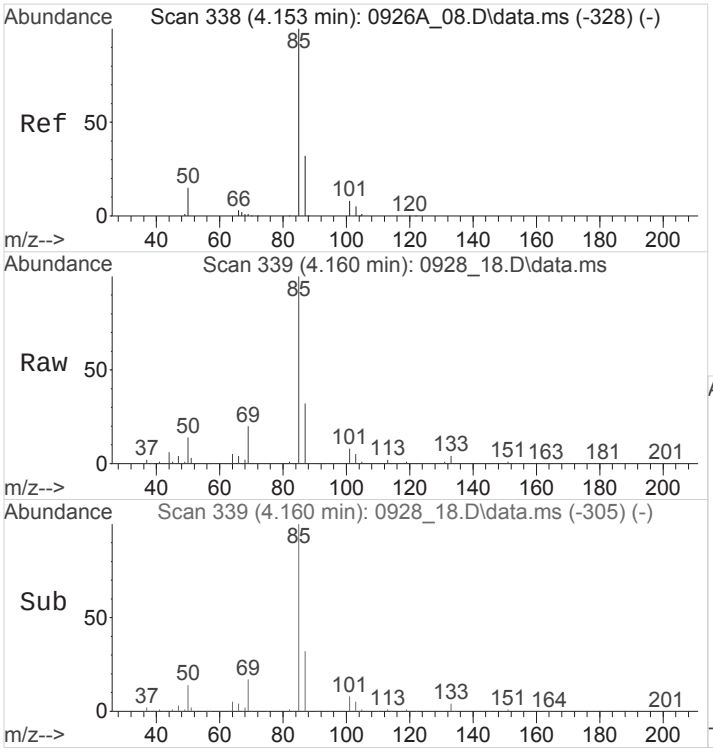


#3
1,1-DIFLUOROETHANE
Concen: 3.1580911 ppbv
RT: 3.885 min Scan# 294
Delta R.T. -0.213 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 65 Resp: 193441

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

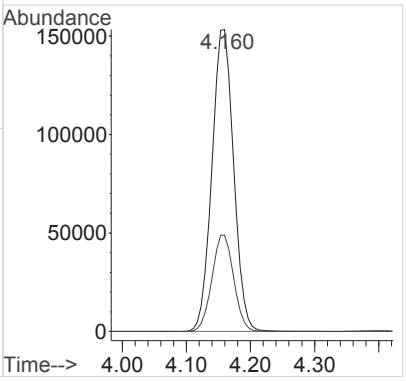


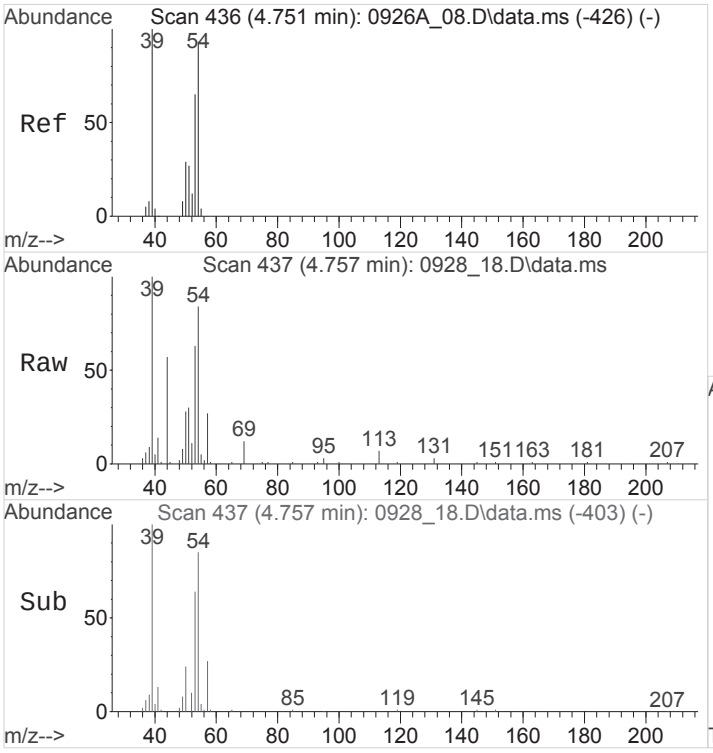


#4
Dichlorodifluoromethane
Concen: 19.4785252 ppbv
RT: 4.159 min Scan# 339
Delta R.T. 0.007 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 85 Resp: 3603863

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.8	38.6

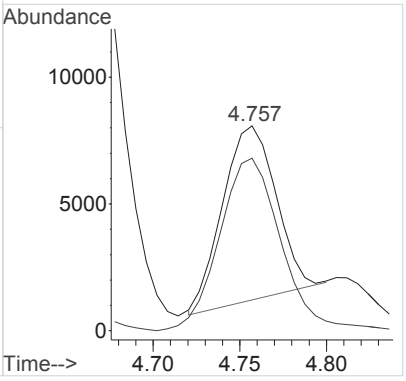


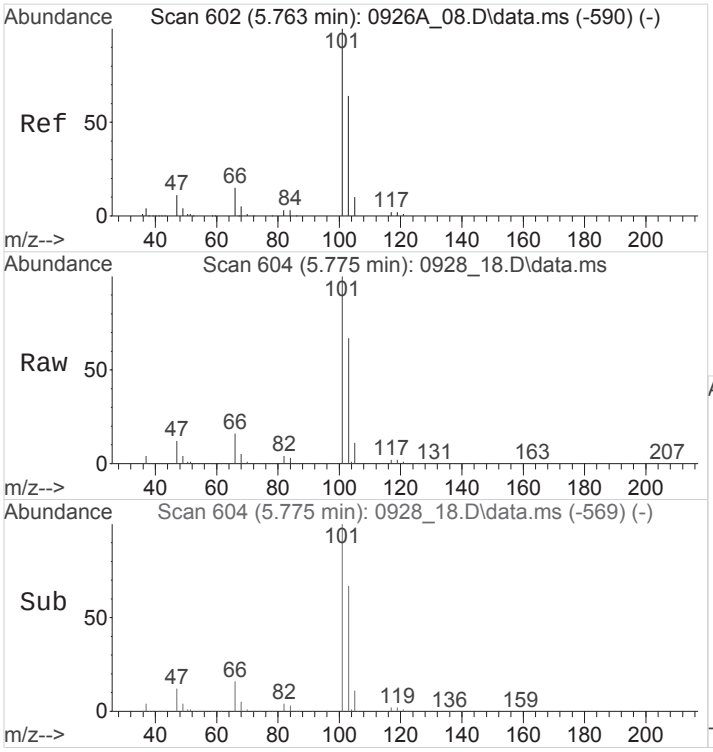


#9
1,3-Butadiene
Concen: 1.6239088 ppbv
RT: 4.758 min Scan# 437
Delta R.T. 0.007 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 39 Resp: 143751

Ion	Ratio	Lower	Upper
39	100		
54	116.9	73.4	110.0#

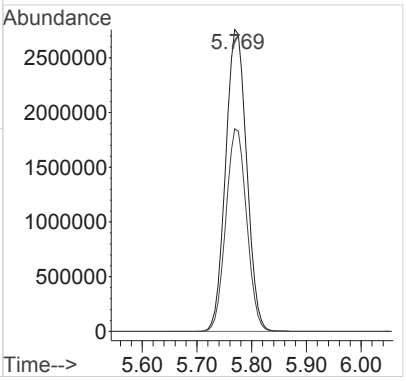


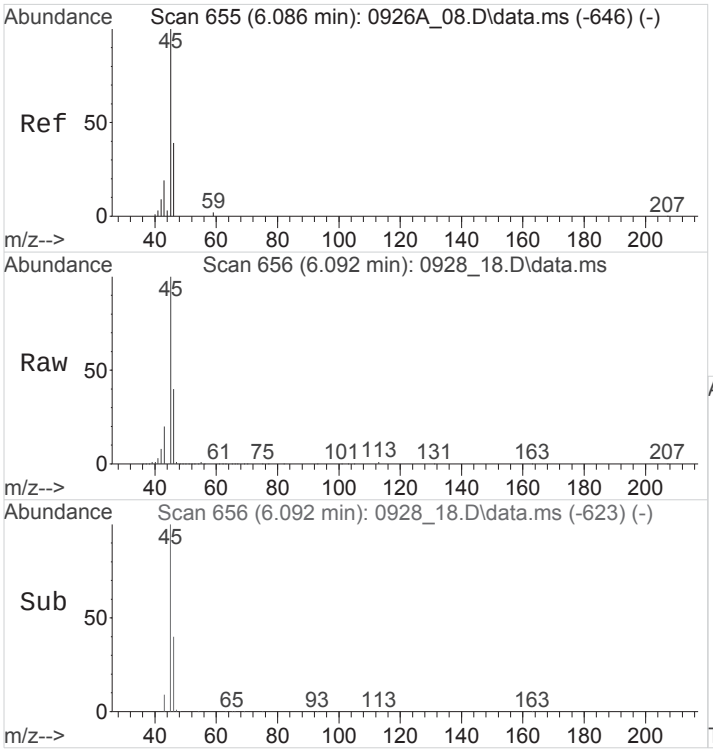


#13
Trichlorofluoromethane
Concen: 412.2327509 ppbv
RT: 5.774 min Scan# 604
Delta R.T. 0.013 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:101 Resp:73618194

Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.7	77.5

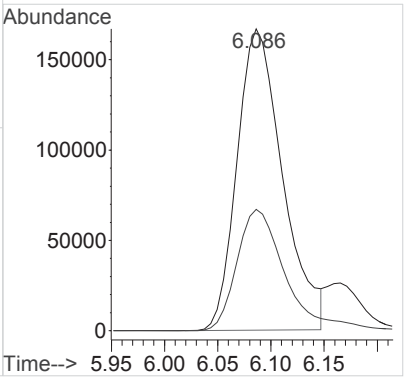


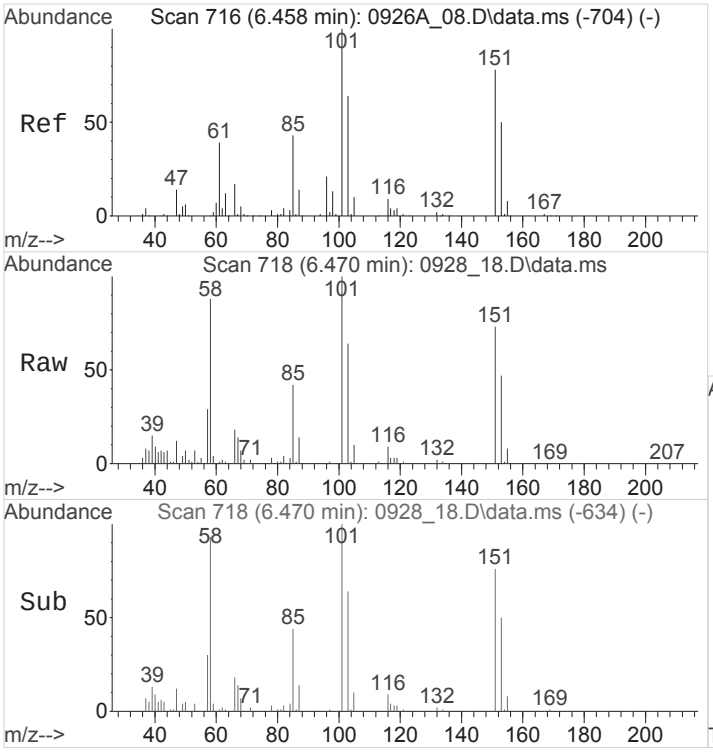


#14
Ethanol
Concen: 305.1983515 ppbv
RT: 6.089 min Scan# 656
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 45 Resp: 4922686

Ion	Ratio	Lower	Upper
45	100		
46	43.1	33.0	49.4

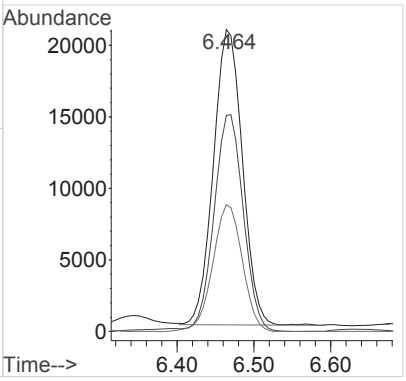


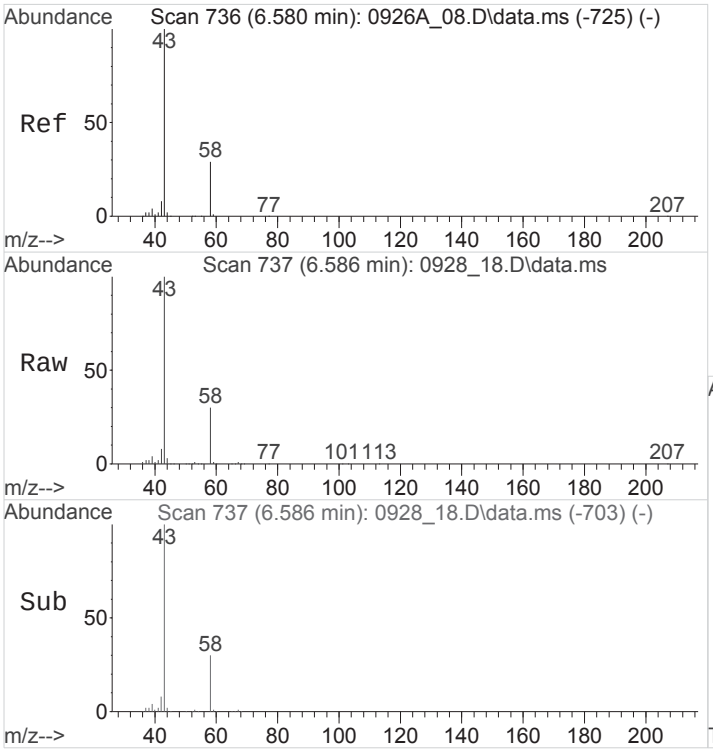


#15
1,1,2-Trichlorotrifluoroethane
Concen: 3.2609022 ppbv
RT: 6.469 min Scan# 718
Delta R.T. 0.011 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:101 Resp: 541112

Ion	Ratio	Lower	Upper
101	100		
151	72.9	61.6	92.4
85	43.8	34.5	51.7

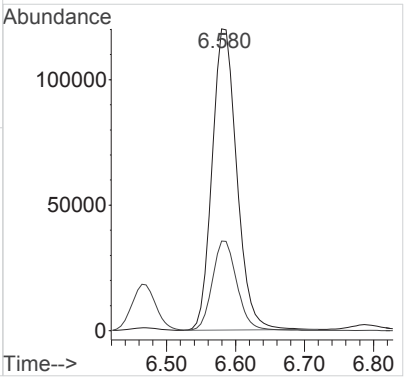


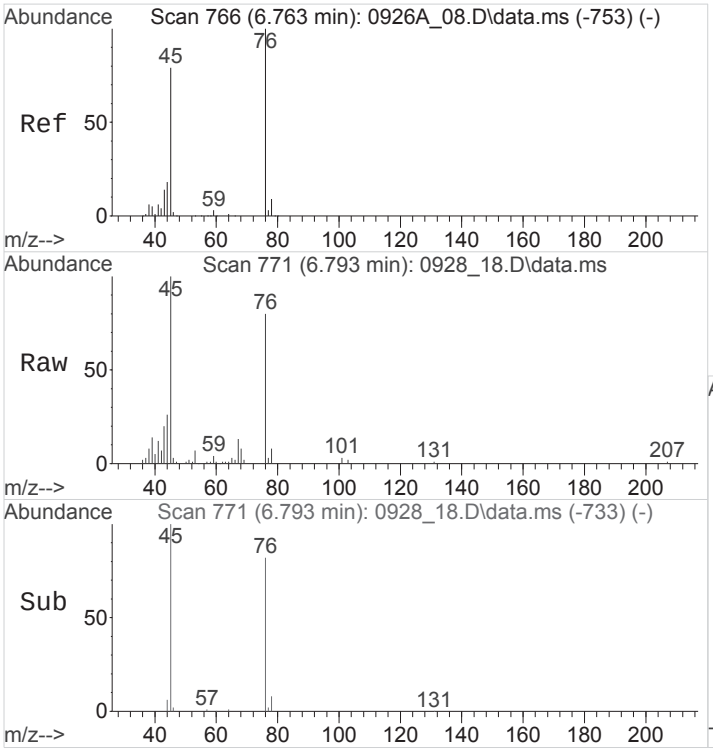


#17
Acetone
Concen: 10.3463228 ppbv
RT: 6.585 min Scan# 737
Delta R.T. 0.006 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 43 Resp: 2978709

Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.1	34.7

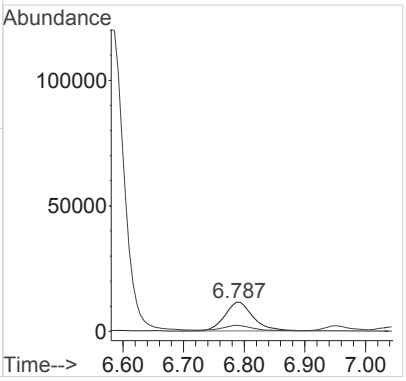


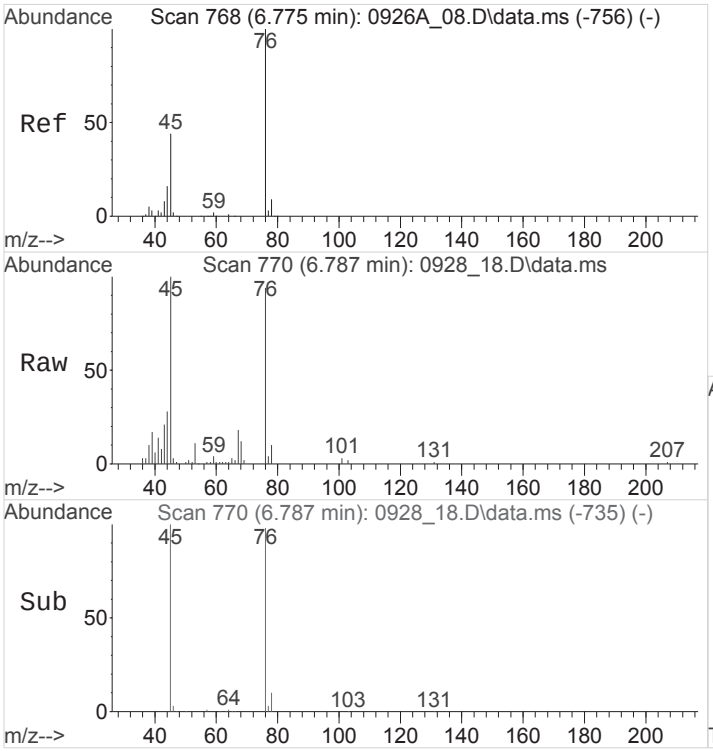


#18
2-Propanol
Concen: 1.9177901 ppbv
RT: 6.793 min Scan# 771
Delta R.T. 0.032 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 45 Resp: 372937

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

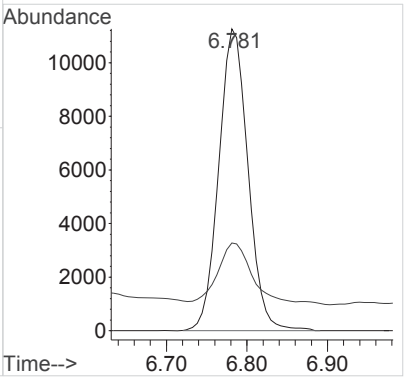


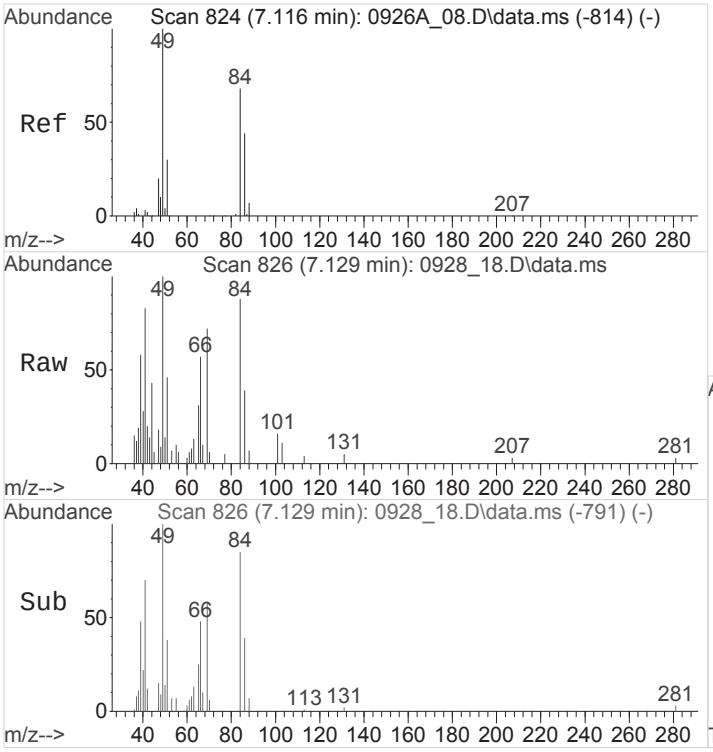


#19
Carbon Disulfide
Concen: 1.1381460 ppbv
RT: 6.785 min Scan# 770
Delta R.T. 0.010 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 76 Resp: 283928

Ion	Ratio	Lower	Upper
76	100		
44	21.3	14.2	21.2#

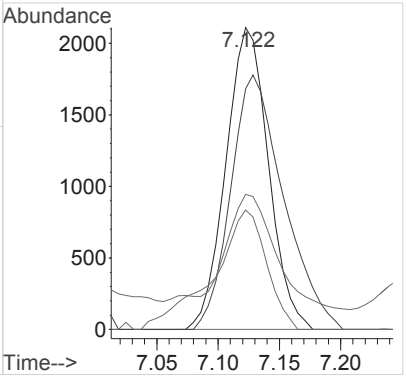


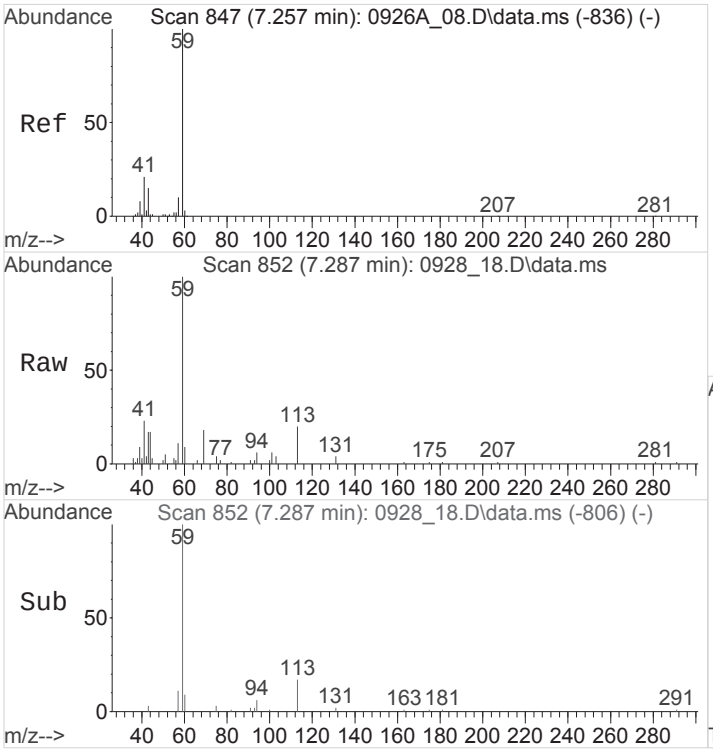


#21
Methylene Chloride
Concen: 0.4312240 ppbv
RT: 7.126 min Scan# 826
Delta R.T. 0.010 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 49 Resp: 51000

Ion	Ratio	Lower	Upper
49	100		
84	104.7	54.2	81.2#
86	50.0	35.1	52.7
51	41.3	24.5	36.7#

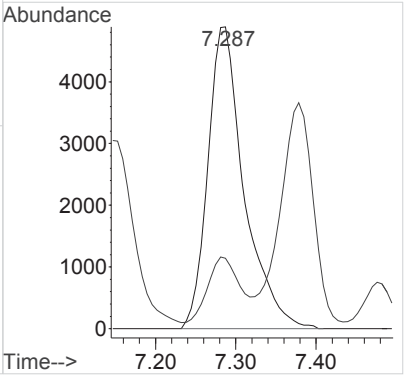


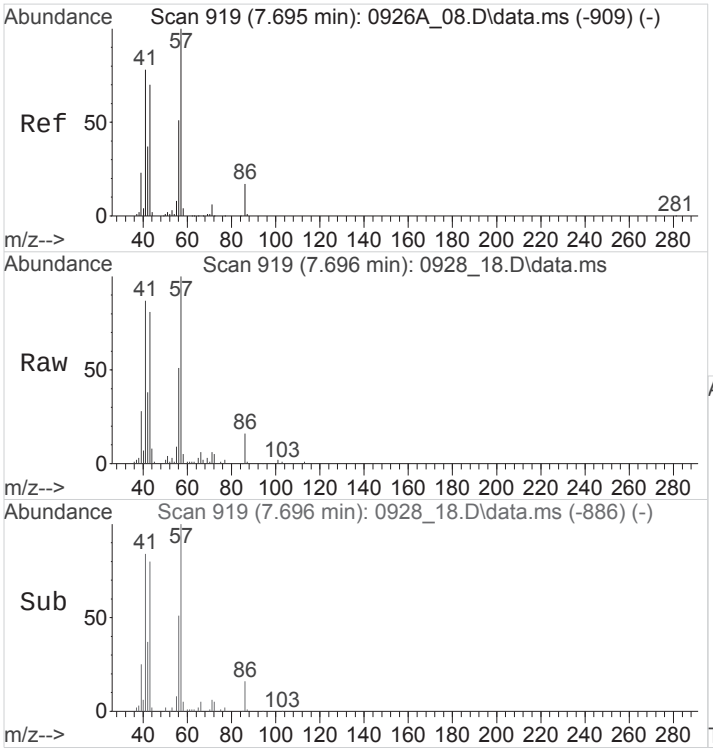


#22
TERT-BUTYL ALCOHOL
Concen: 0.7121411 ppbv
RT: 7.287 min Scan# 852
Delta R.T. 0.031 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 59 Resp: 153664

Ion	Ratio	Lower	Upper
59	100		
41	65.7	16.5	24.7#

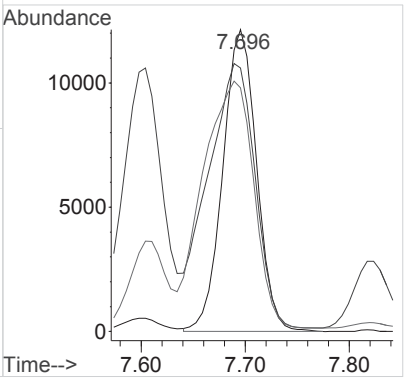


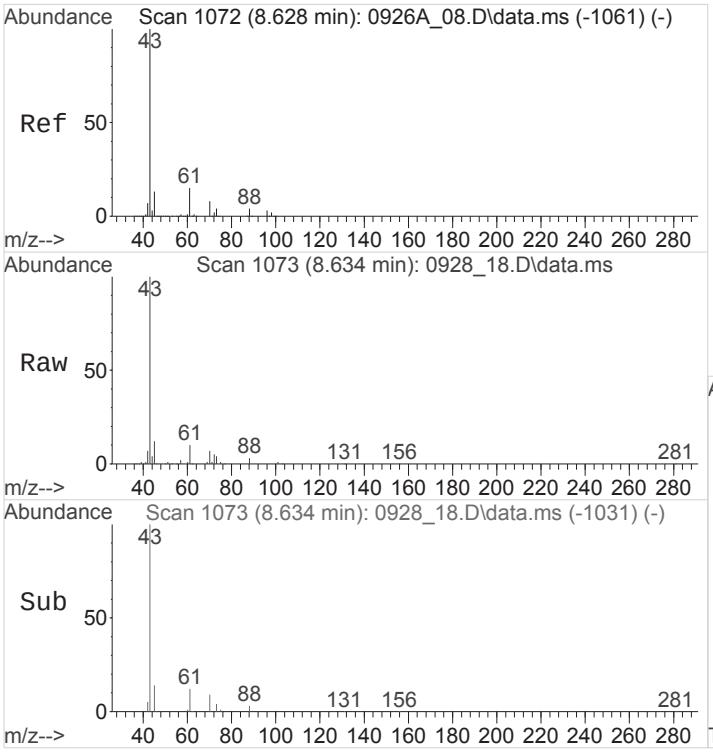


#25
n-Hexane
Concen: 1.8019717 ppbv
RT: 7.698 min Scan# 919
Delta R.T. 0.005 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 57 Resp: 274225

Ion	Ratio	Lower	Upper
57	100		
41	123.6	63.2	94.8#
43	124.4	56.0	84.0#

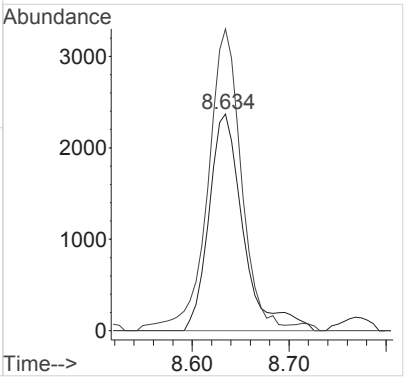


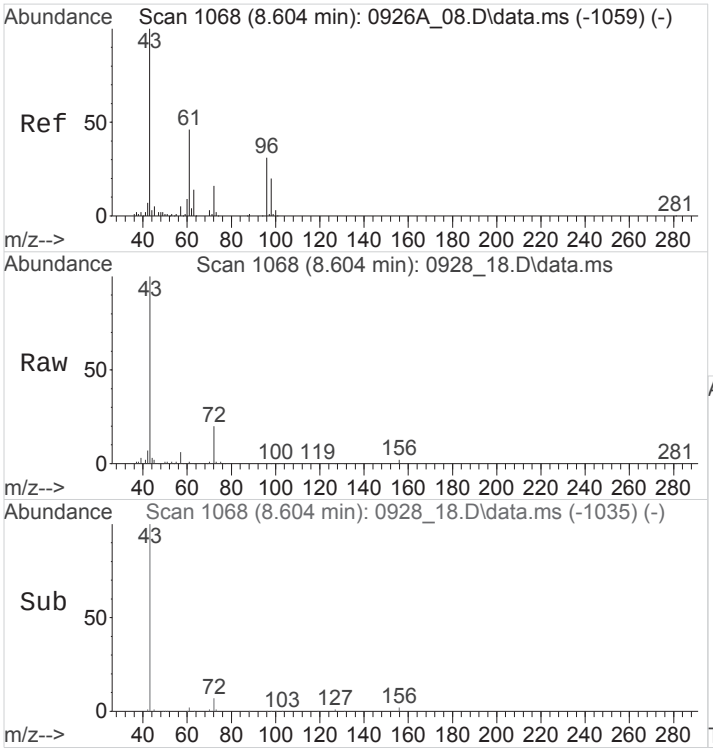


#28
ETHYL ACETATE
Concen: 2.1841253 ppbv
RT: 8.635 min Scan# 1073
Delta R.T. 0.005 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 70 Resp: 58399

Ion	Ratio	Lower	Upper
70	100		
61	130.7	481.5	722.3#

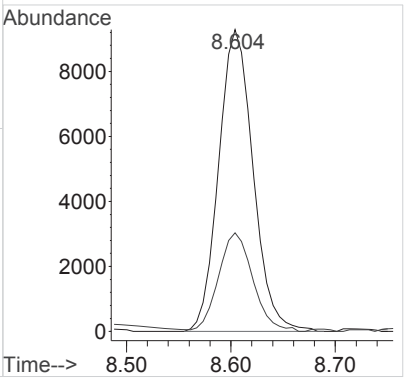


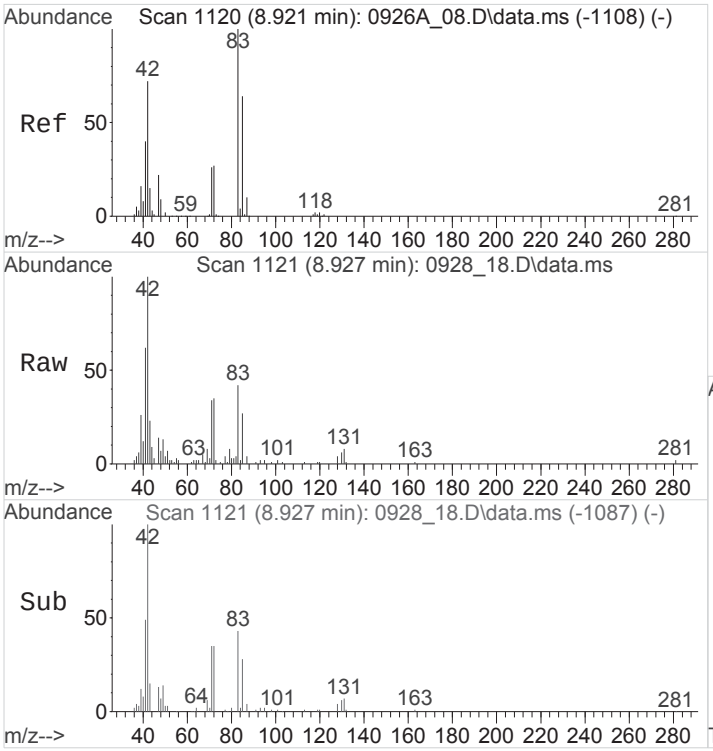


#29
2-Butanone (MEK)
Concen: 4.7800535 ppbv
RT: 8.607 min Scan# 1068
Delta R.T. 0.006 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 72 Resp: 213135

Ion	Ratio	Lower	Upper
72	100		
57	31.3	25.6	38.4

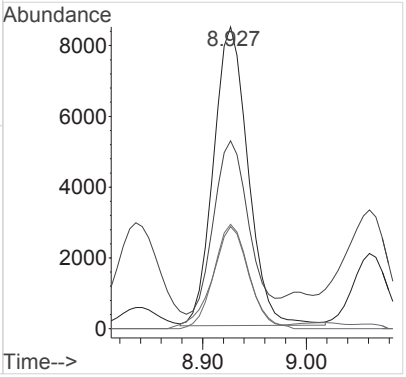


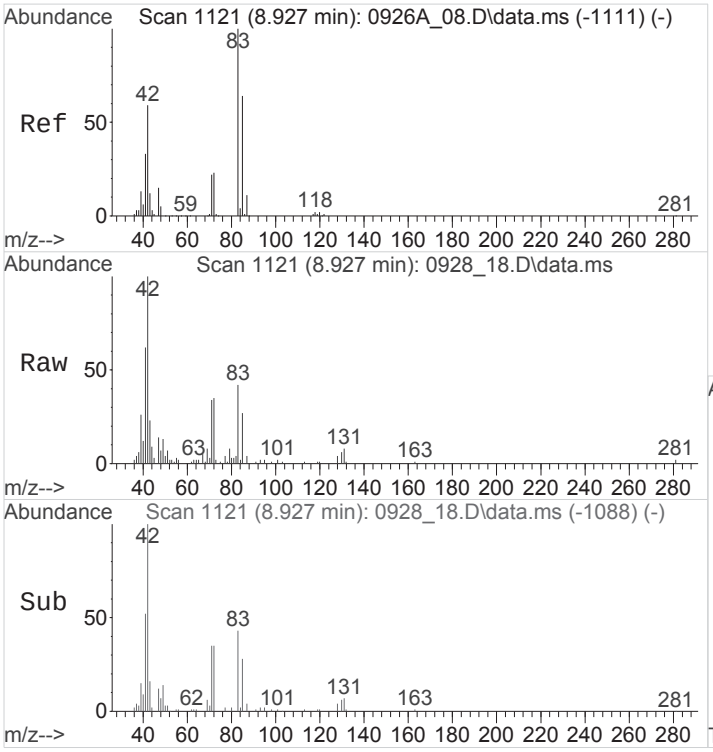


#31
Tetrahydrofuran
Concen: 1.5525260 ppbv
RT: 8.929 min Scan# 1121
Delta R.T. 0.010 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 42 Resp: 196126

Ion	Ratio	Lower	Upper
42	100		
41	56.7	44.2	66.4
72	35.1	29.6	44.4
71	36.0	28.2	42.2

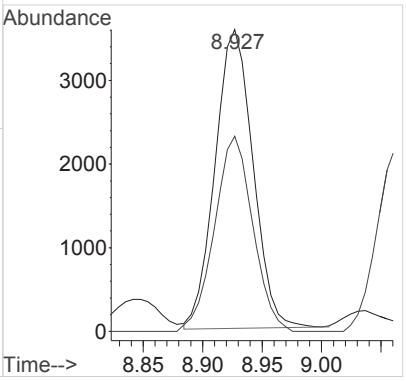


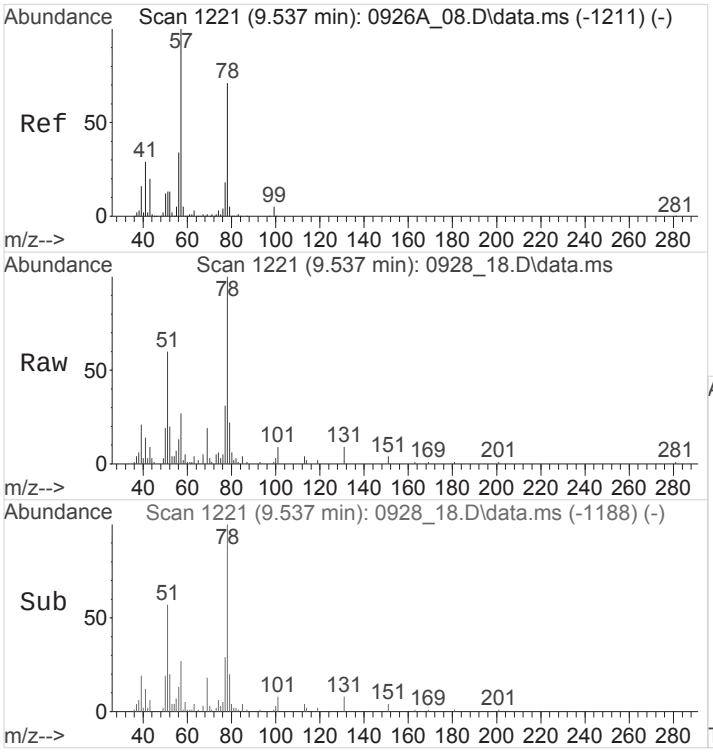


#32
Chloroform
Concen: 0.4667843 ppbv
RT: 8.929 min Scan# 1121
Delta R.T. 0.002 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 83 Resp: 79253

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.0	76.6

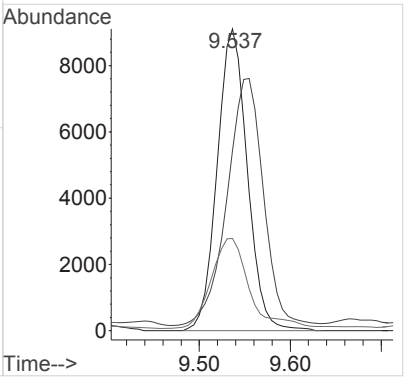


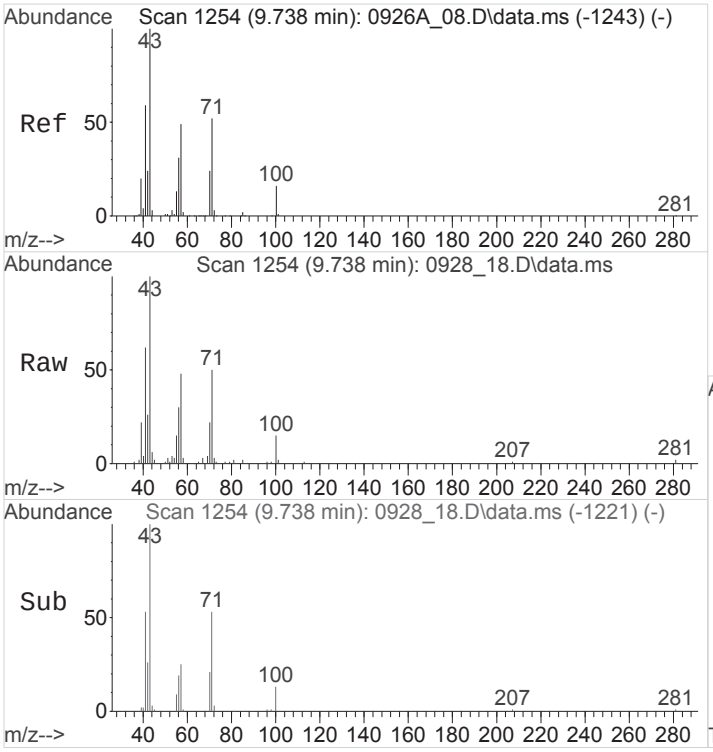


#38
Benzene
Concen: 0.6930737 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 78 Resp: 209483

Ion	Ratio	Lower	Upper
78	100		
51	97.1	15.4	23.0#
77	36.8	19.9	29.9#

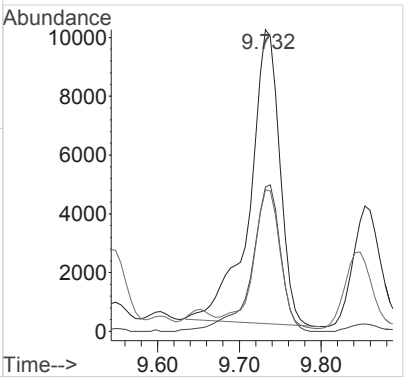


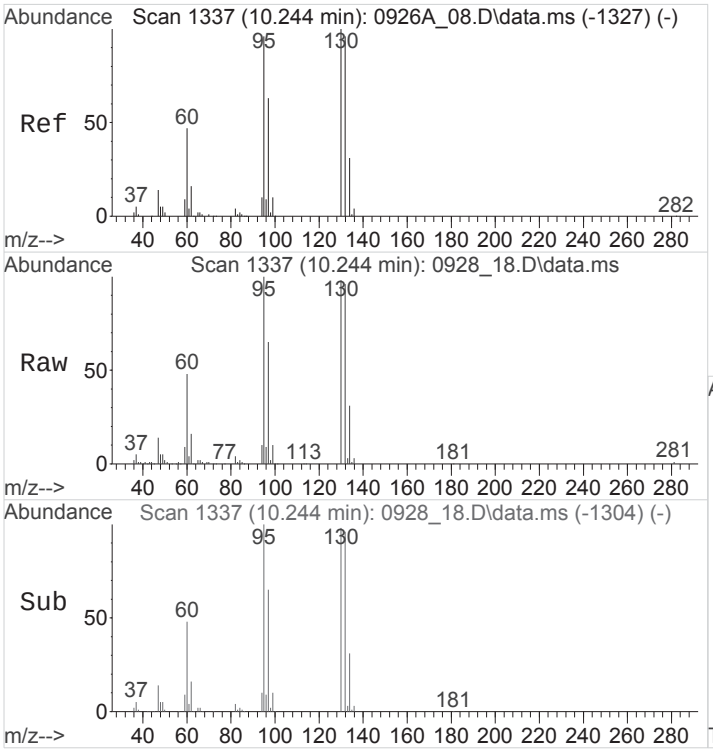


#40
Heptane
Concen: 1.2323654 ppbv
RT: 9.736 min Scan# 1254
Delta R.T. -0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 43 Resp: 257218

Ion	Ratio	Lower	Upper
43	100		
71	47.6	41.4	62.0
57	37.3	39.3	58.9#

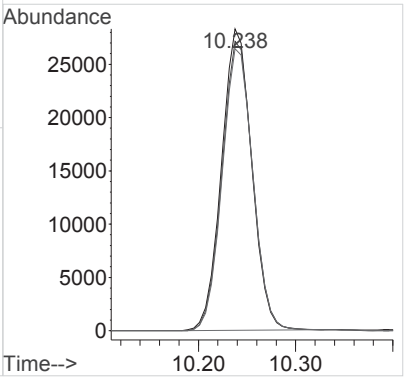


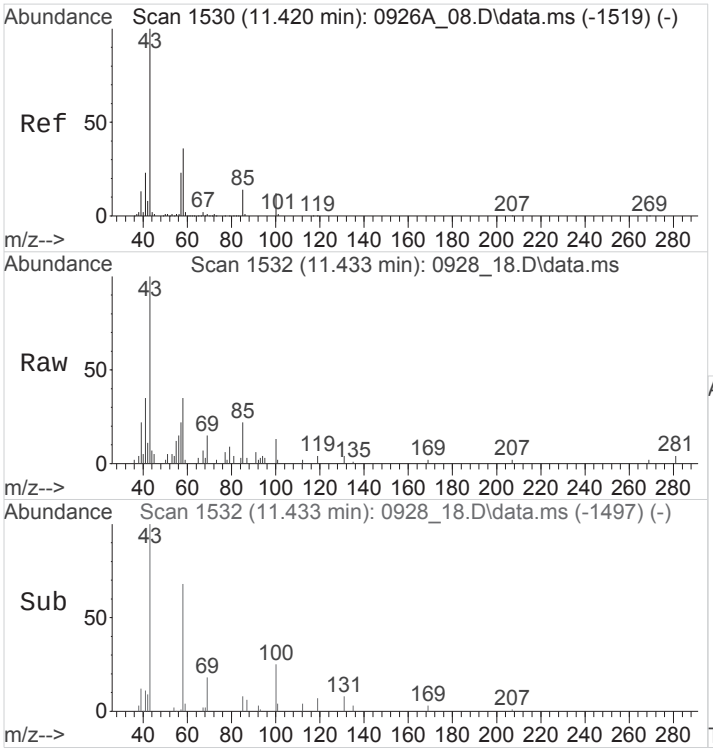


#41
Trichloroethene
Concen: 5.1927828 ppbv
RT: 10.242 min Scan# 1337
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 95 Resp: 611387

Ion	Ratio	Lower	Upper
95	100		
130	96.9	81.6	122.4
132	94.5	77.8	116.6

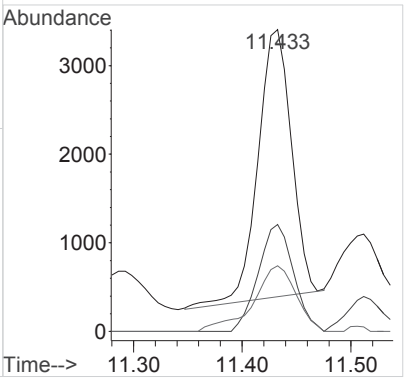


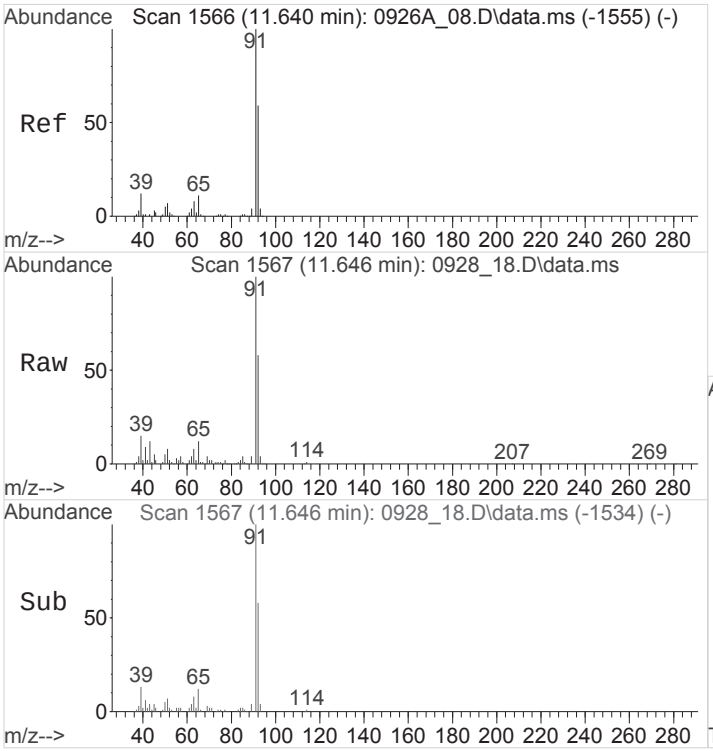


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.2363255 ppbv
RT: 11.433 min Scan# 1532
Delta R.T. 0.011 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 43 Resp: 63862

Ion	Ratio	Lower	Upper
43	100		
58	42.0	29.0	43.6
85	31.7	11.0	16.6#

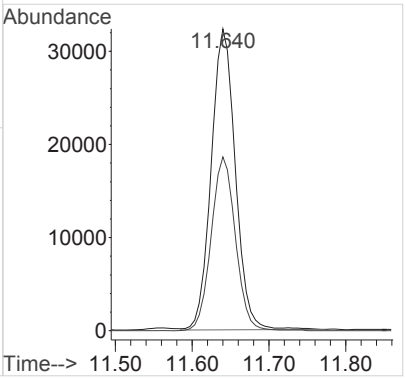


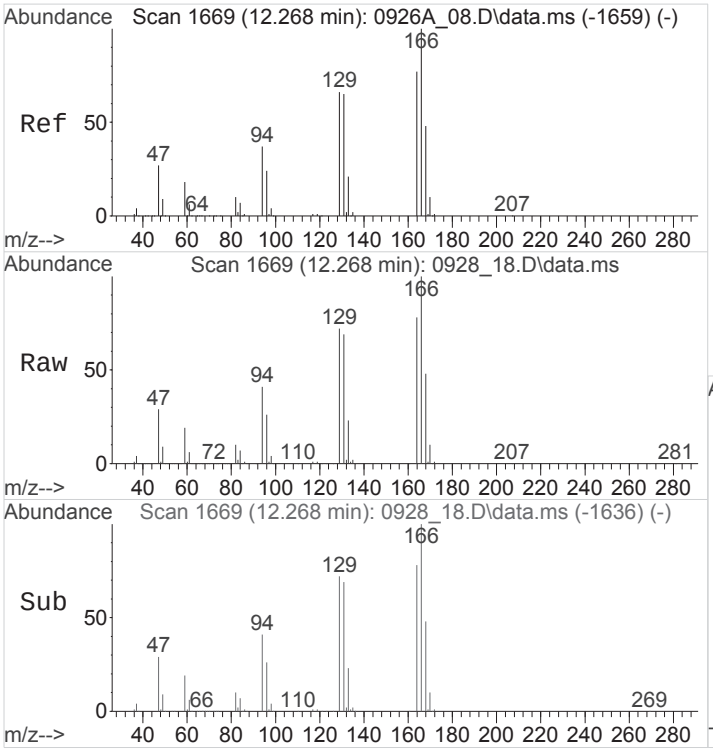


#50
Toluene
Concen: 1.9581082 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 91 Resp: 705925

Ion	Ratio	Lower	Upper
91	100		
92	57.4	46.6	70.0

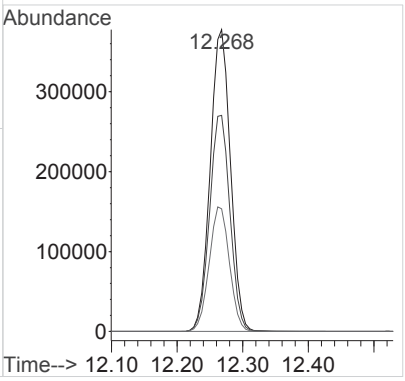


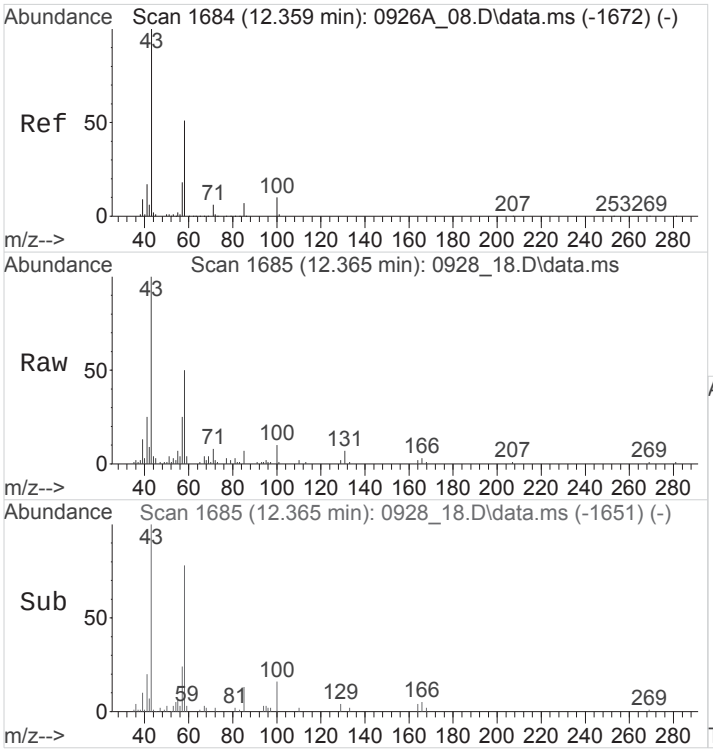


#53
Tetrachloroethene
Concen: 53.1391652 ppbv
RT: 12.268 min Scan# 1669
Delta R.T. 0.002 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:166 Resp: 8084147

Ion	Ratio	Lower	Upper
166	100		
129	72.1	55.0	82.6
94	41.3	31.3	46.9

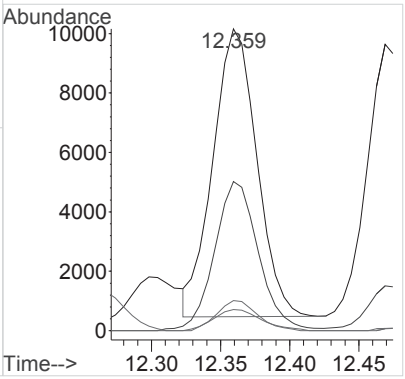


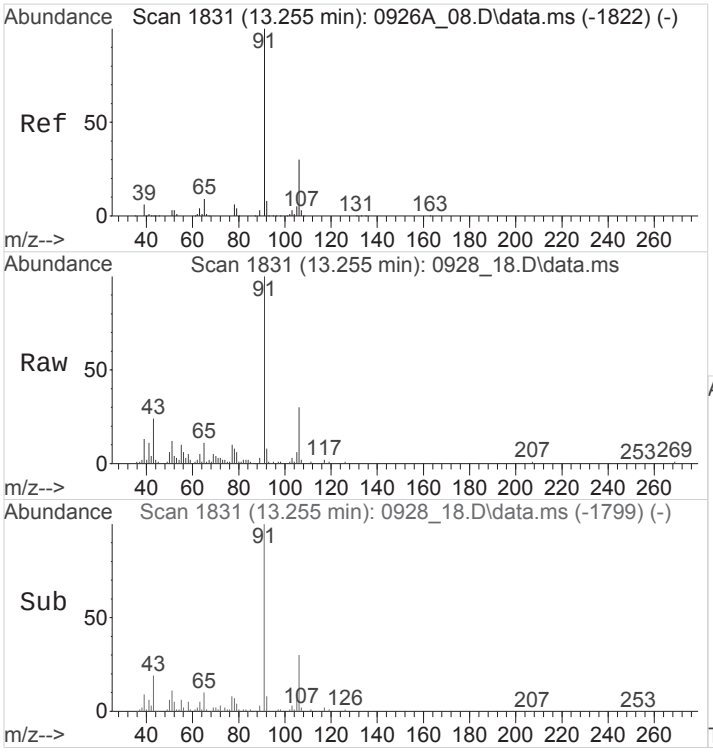


#54
Methyl Butyl Ketone
Concen: 1.0544042 ppbv
RT: 12.363 min Scan# 1685
Delta R.T. 0.005 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 43 Resp: 217555

Ion	Ratio	Lower	Upper
43	100		
58	49.0	41.0	61.4
85	0.0	5.6	8.4#
100	9.6	7.8	11.8

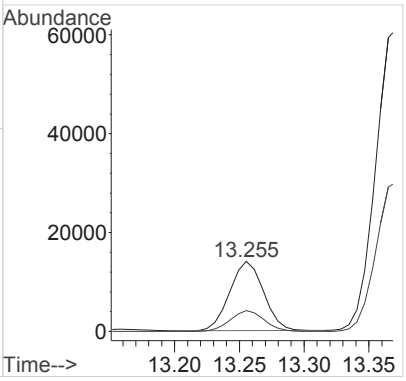


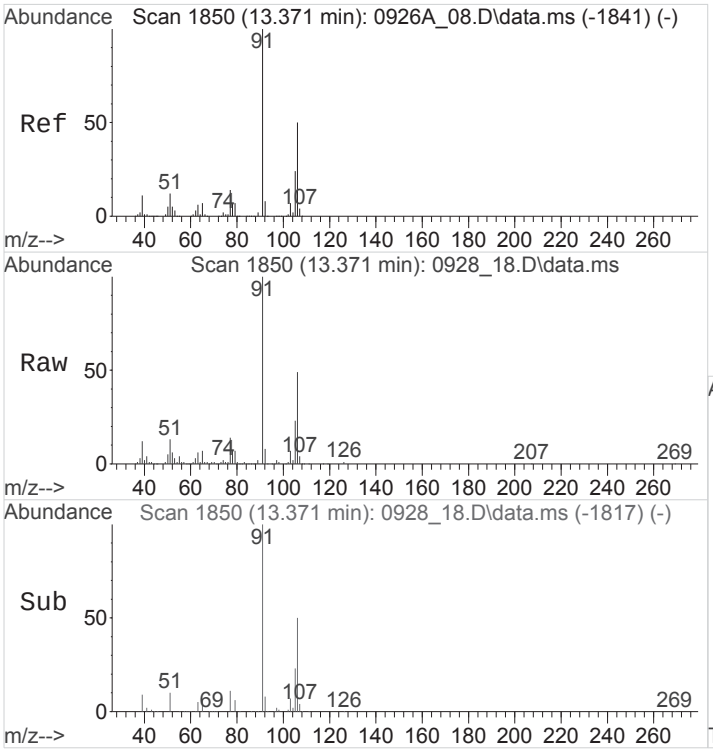


#59
Ethylbenzene
Concen: 0.6399545 ppbv
RT: 13.258 min Scan# 1831
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 91 Resp: 254474

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

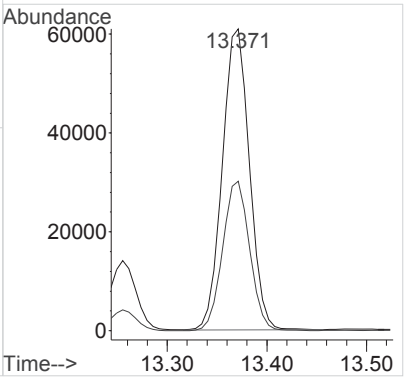


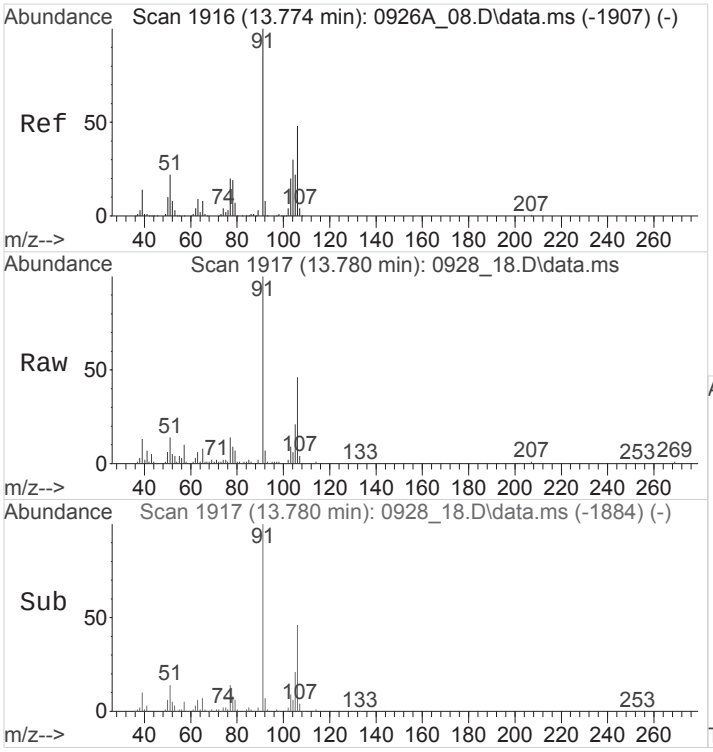


#60
M&P-Xylene
Concen: 3.8172583 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 91 Resp: 1147145

Ion	Ratio	Lower	Upper
91	100		
106	49.6	39.8	59.6

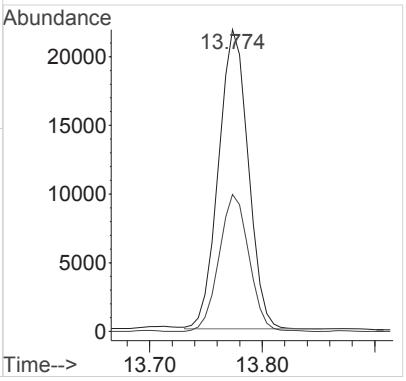


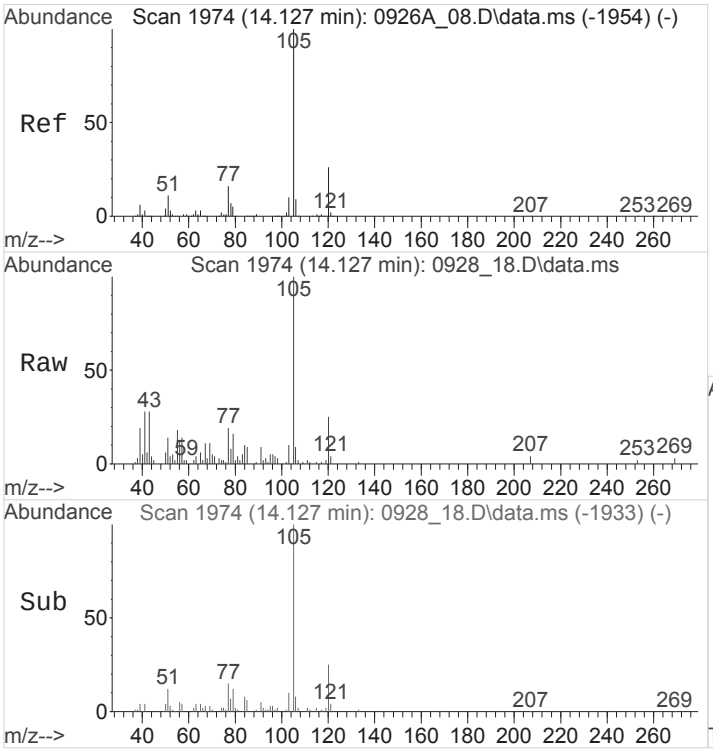


#61
O-Xylene
Concen: 1.3048535 ppbv
RT: 13.777 min Scan# 1917
Delta R.T. 0.001 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 91 Resp: 399277

Ion	Ratio	Lower	Upper
91	100		
106	46.0	38.2	57.2

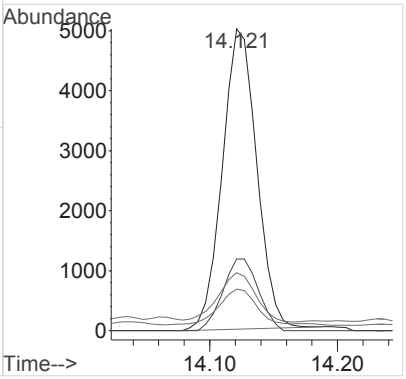


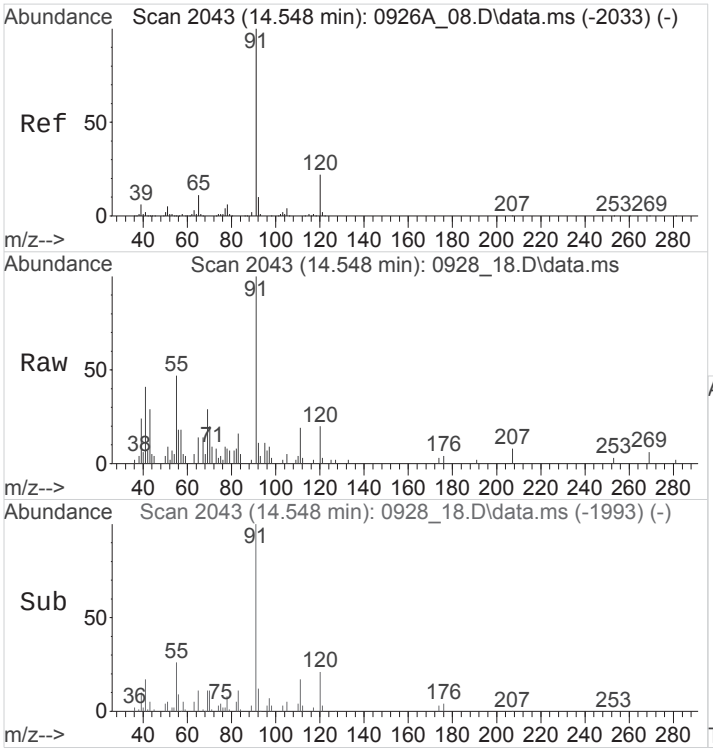


#64
Isopropylbenzene
Concen: 0.2219958 ppbv
RT: 14.126 min Scan# 1974
Delta R.T. -0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:105 Resp: 93363

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.7	31.1#
77	0.0	13.0	19.4#
51	0.0	9.4	14.0#

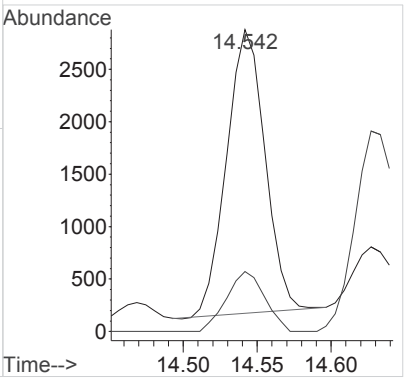


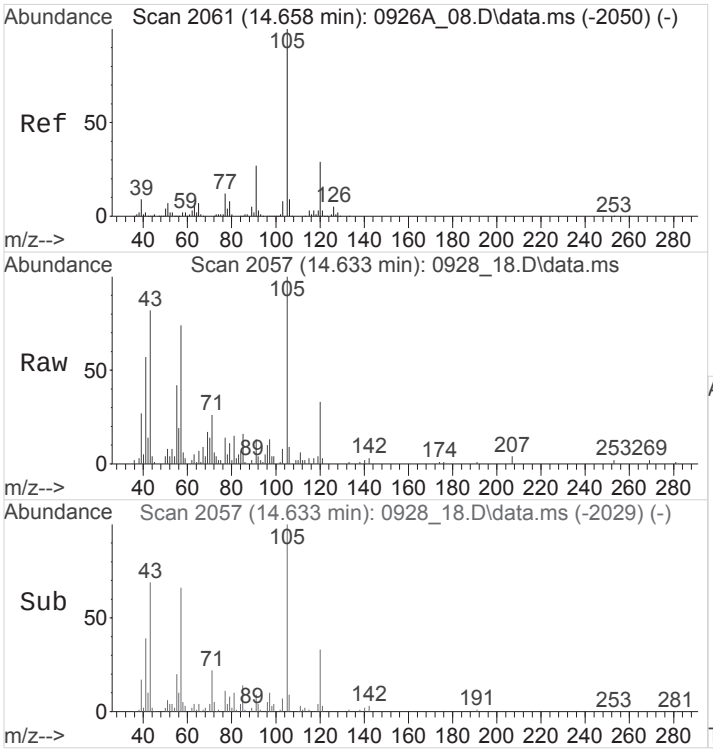


#66
n-Propylbenzene
Concen: 0.0977187 ppbv
RT: 14.545 min Scan# 2043
Delta R.T. 0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion: 91 Resp: 48768

Ion	Ratio	Lower	Upper
91	100		
120	97.0	17.1	25.7#

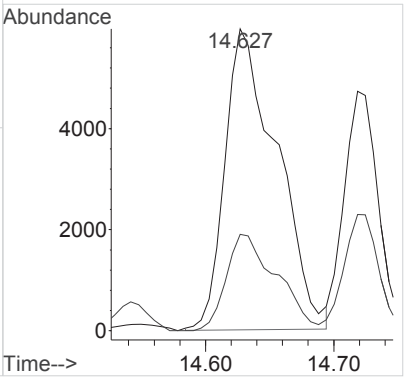


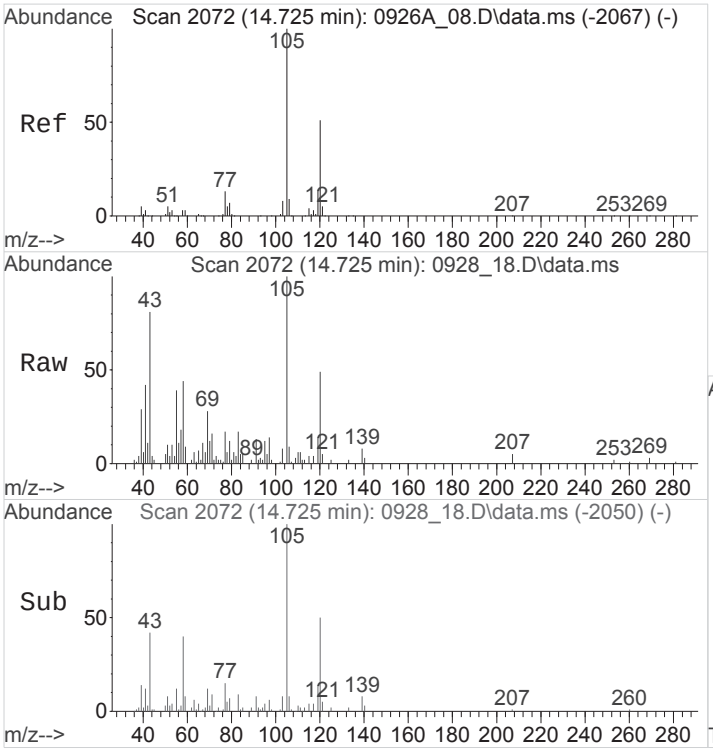


#67
4-Ethyltoluene
Concen: 0.4084511 ppbv
RT: 14.631 min Scan# 2057
Delta R.T. -0.029 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:105 Resp: 166204

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

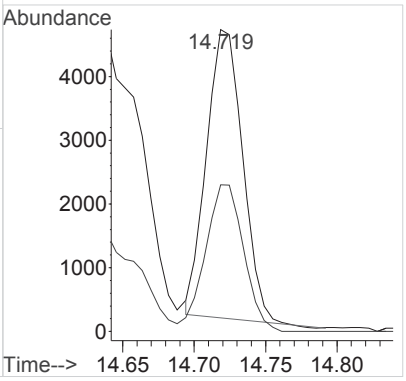


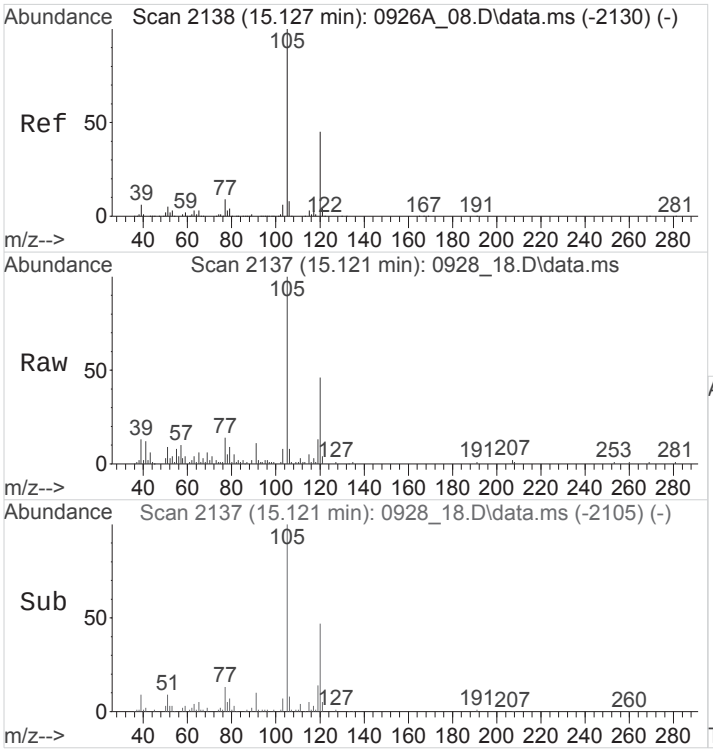


#70
1,3,5-Trimethylbenzene
Concen: 0.2363706 ppbv
RT: 14.724 min Scan# 2072
Delta R.T. 0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:105 Resp: 81162

Ion	Ratio	Lower	Upper
105	100		
120	51.4	40.2	60.4

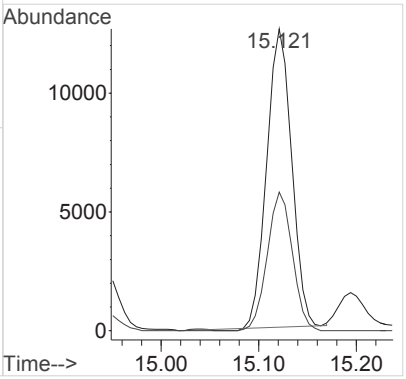


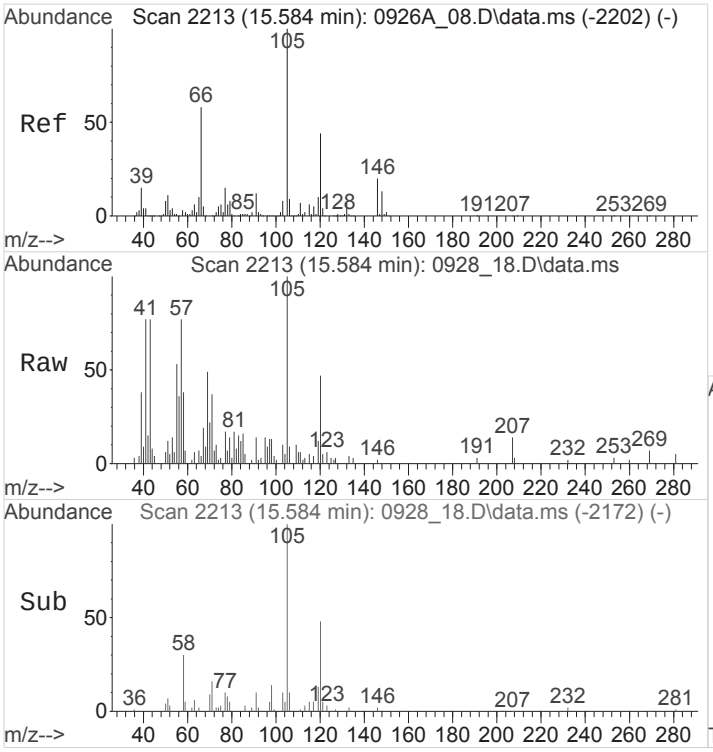


#72
1,2,4-Trimethylbenzene
Concen: 0.6528553 ppbv
RT: 15.124 min Scan# 2137
Delta R.T. -0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:105 Resp: 221236

Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.5	56.3

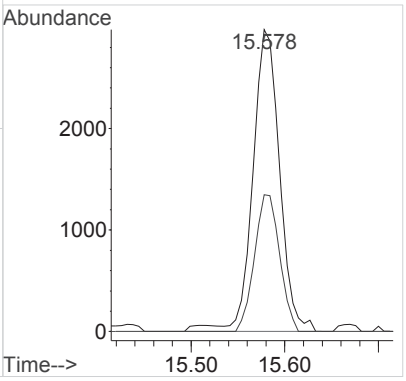


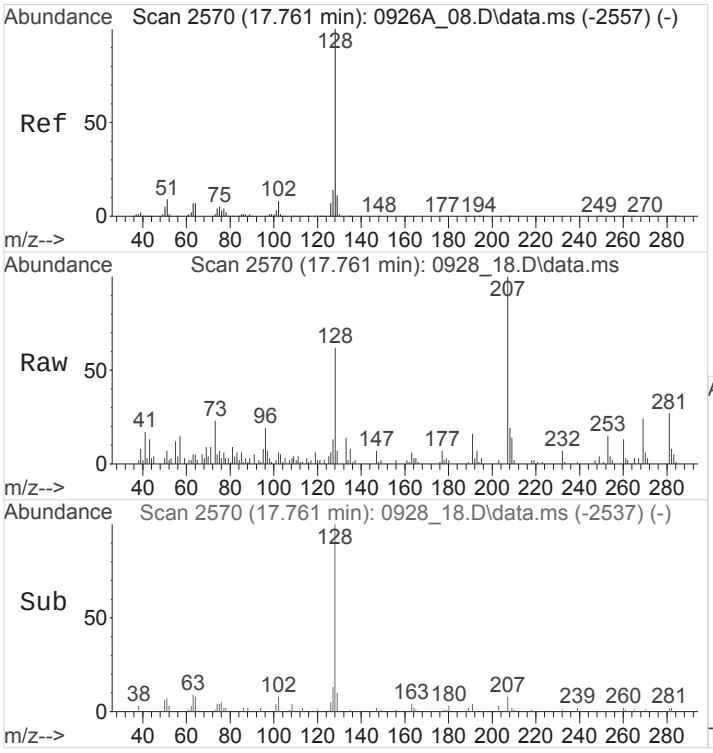


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.1732072 ppbv
RT: 15.583 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:105 Resp: 59556

Ion	Ratio	Lower	Upper
105	100		
120	0.0	34.6	52.0#

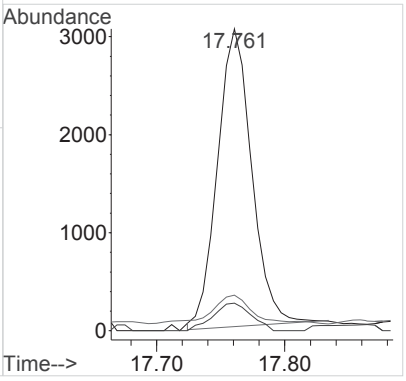


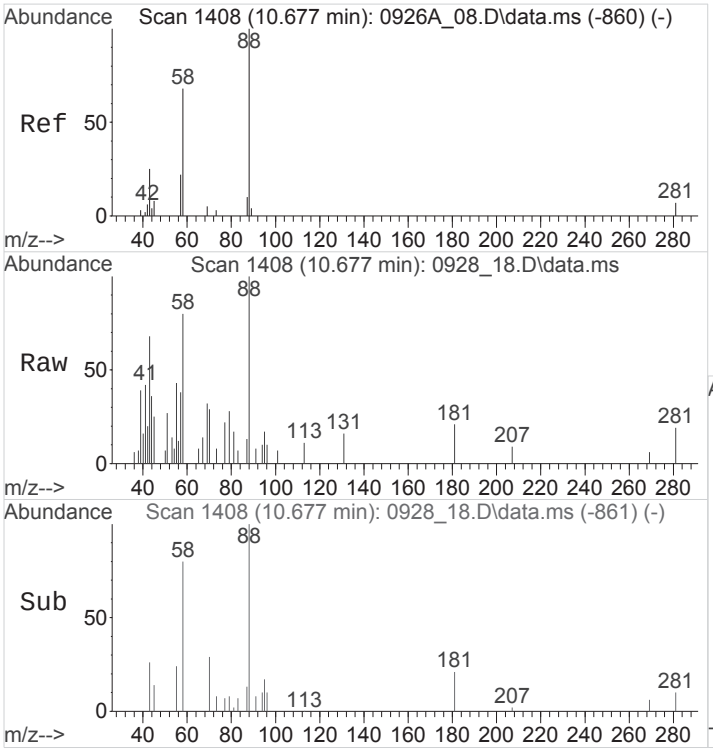


#83
Naphthalene
Concen: 0.3103990 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:128 Resp: 56107

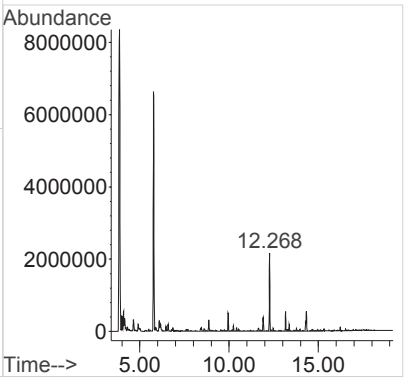
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 199.6682960 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_18.D
Acq: 28 Sep 2016 7:47 pm

Tgt Ion:TIC Resp:141136620



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_19.D
Acq On : 28 Sep 2016 8:32 pm
Operator : 564
Sample : L861822-15 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 19 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:28:25 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

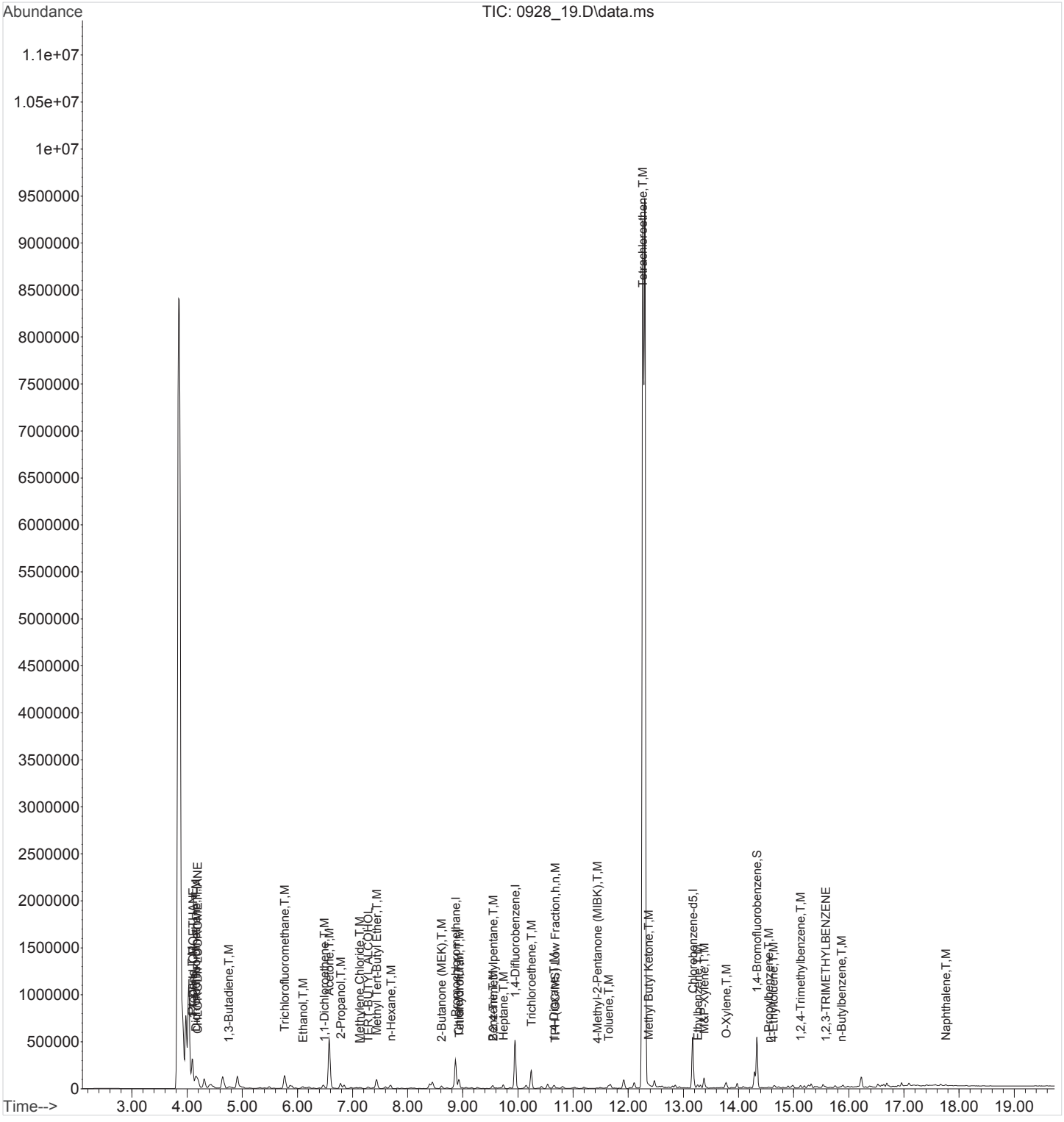
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.871	130	1135824	4.0000000	ppbv	# 0.00
37) 1,4-Difluorobenzene	9.950	114	4717420	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.169	117	3195761	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.335	95	2052056	4.1330689	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.33%			
Target Compounds						Qvalue
2) Propene	4.093	41	1143867	11.7073386	ppbv	95
3) 1,1-DIFLUOROETHANE	4.104	65	54940	0.8836237	ppbv #	1
4) Dichlorodifluoromethane	4.158	85	970479	5.1674624	ppbv	100
5) CHLORODIFLUOROMETHANE	4.190	67	79124	3.5068286	ppbv #	39
9) 1,3-Butadiene	4.758	39	95722	1.0652899	ppbv #	70
13) Trichlorofluoromethane	5.767	101	1406801	7.7605621	ppbv	98
14) Ethanol	6.099	45	331309	20.2356077	ppbv	97
16) 1,1-Dichloroethene	6.489	61	103623	0.6808660	ppbv	96
17) Acetone	6.578	43	8556026	29.2774592	ppbv	98
18) 2-Propanol	6.785	45	809740	4.1021740	ppbv #	74
21) Methylene Chloride	7.126	49	53697	0.4472868	ppbv #	91
22) TERT-BUTYL ALCOHOL	7.283	59	320686	1.4641272	ppbv #	56
23) Methyl Tert-Butyl Ether	7.437	73	1200197	4.5213606	ppbv #	89
25) n-Hexane	7.695	57	180521	1.1686133	ppbv #	38
29) 2-Butanone (MEK)	8.614	72	93849	2.0735331	ppbv	98
31) Tetrahydrofuran	8.939	42	105164	0.8201090	ppbv	97
32) Chloroform	8.929	83	706527	4.0994910	ppbv	99
36) 2,2,4-Trimethylpentane	9.547	57	172271	0.3337209	ppbv #	87
38) Benzene	9.540	78	125751	0.4089864	ppbv #	79
40) Heptane	9.736	43	223521	1.0527403	ppbv	94
41) Trichloroethene	10.242	95	771158	6.4386310	ppbv	97
46) 1,4-Dioxane	10.655	88	346691	6.4678456	ppbv #	98
49) 4-Methyl-2-Pentanone (...	11.436	43	48752	0.1773456	ppbv #	46
50) Toluene	11.643	91	230780	0.6292758	ppbv	96
53) Tetrachloroethene	12.262	166	49766159m	321.5736029	ppbv	
54) Methyl Butyl Ketone	12.369	43	115201	0.5488576	ppbv #	67
59) Ethylbenzene	13.264	91	175339	0.4555262	ppbv #	44
60) M&P-Xylene	13.376	91	600155	2.0631249	ppbv	99
61) O-Xylene	13.781	91	290036	0.9791921	ppbv	98
66) n-Propylbenzene	14.547	91	89253	0.1847532	ppbv #	55
67) 4-Ethyltoluene	14.634	105	69906	0.1774783	ppbv #	46
72) 1,2,4-Trimethylbenzene	15.126	105	93458	0.2849104	ppbv	99
73) sec-Butylbenzene	15.296	105	38130	0.0751096	ppbv #	1
76) 1,2,3-TRIMETHYLBENZENE	15.584	105	41342	0.1242126	ppbv #	33
79) n-Butylbenzene	15.873	91	54577	0.1461878	ppbv #	32
83) Naphthalene	17.763	128	97070	0.5547688	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	436724623m	638.2721105	ppbv	

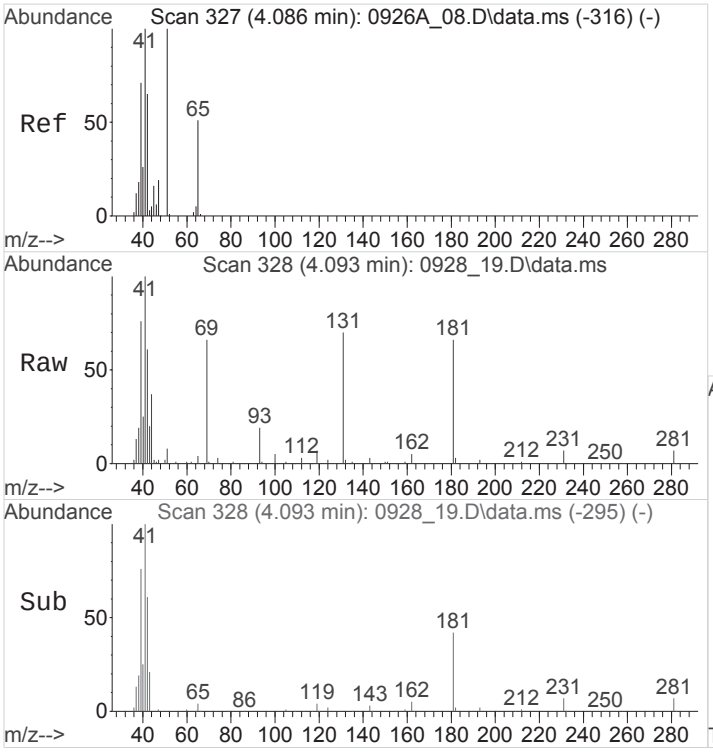
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_19.D
Acq On : 28 Sep 2016 8:32 pm
Operator : 564
Sample : L861822-15 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 19 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:28:25 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

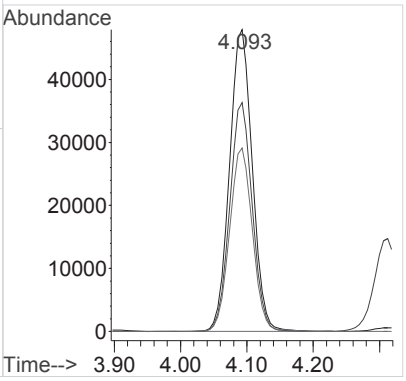


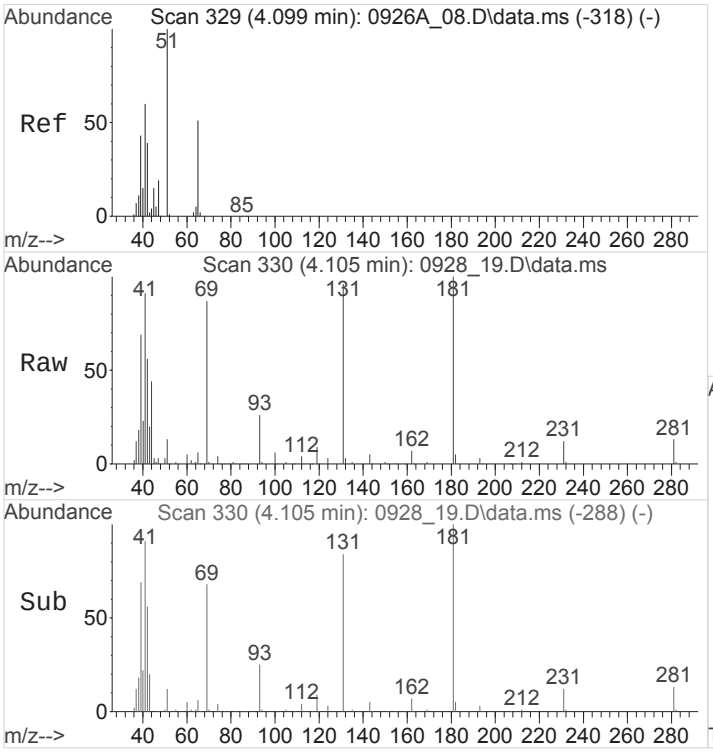


#2
Propene
Concen: 11.7073386 ppbv
RT: 4.093 min Scan# 328
Delta R.T. 0.005 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 41 Resp: 1143867

Ion	Ratio	Lower	Upper
41	100		
39	74.5	56.5	84.7
42	60.6	52.2	78.4

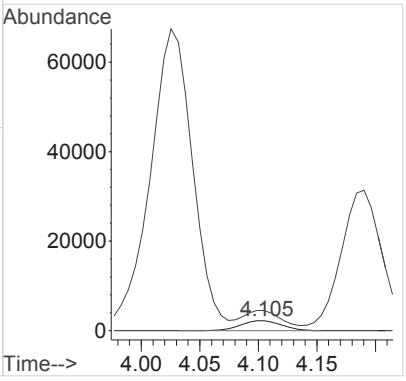


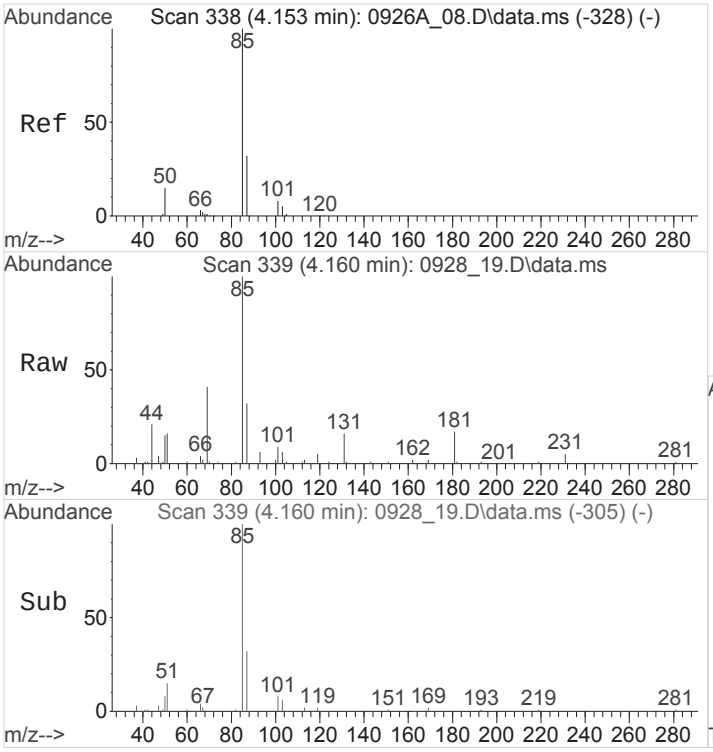


#3
1,1-DIFLUOROETHANE
Concen: 0.8836237 ppbv
RT: 4.104 min Scan# 330
Delta R.T. 0.006 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 65 Resp: 54940

Ion	Ratio	Lower	Upper
65	100		
51	3075.9	154.7	232.1#

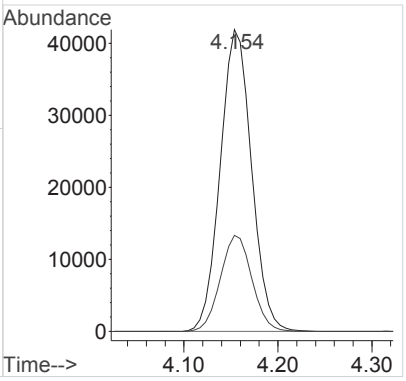


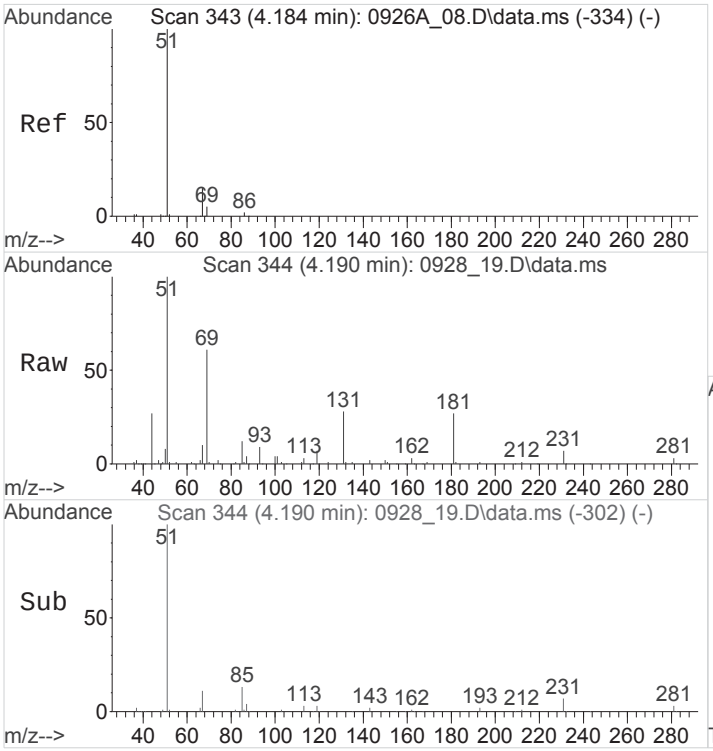


#4
Dichlorodifluoromethane
Concen: 5.1674624 ppbv
RT: 4.158 min Scan# 339
Delta R.T. 0.005 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 85 Resp: 970479

Ion	Ratio	Lower	Upper
85	100		
87	32.1	25.8	38.6

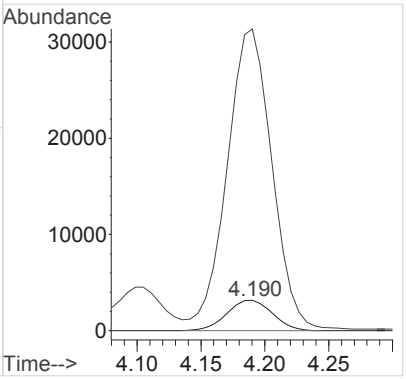


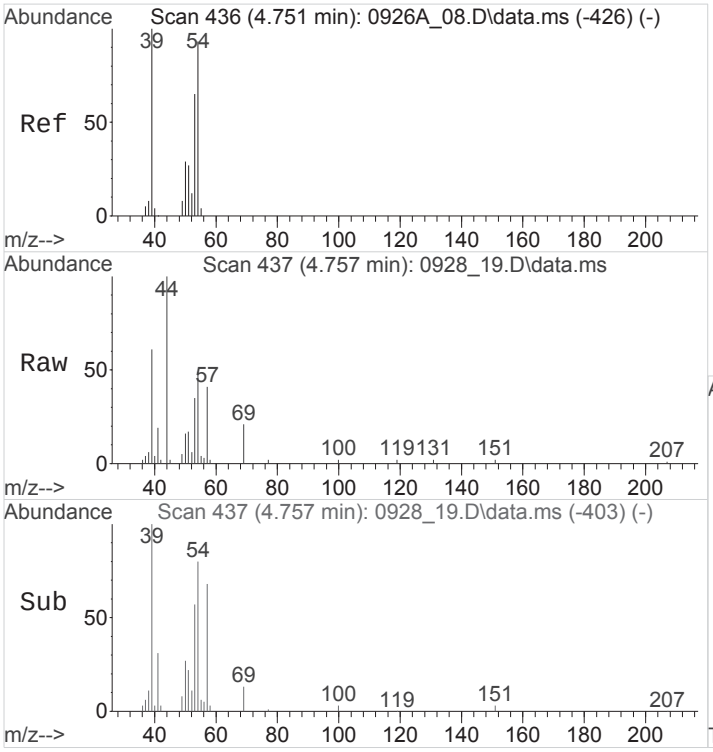


#5
CHLORODIFLUOROMETHANE
Concen: 3.5068286 ppbv
RT: 4.190 min Scan# 344
Delta R.T. 0.004 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 67 Resp: 79124

Ion	Ratio	Lower	Upper
67	100		
51	950.7	585.8	878.8#

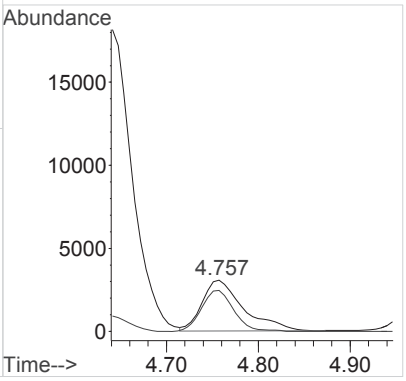


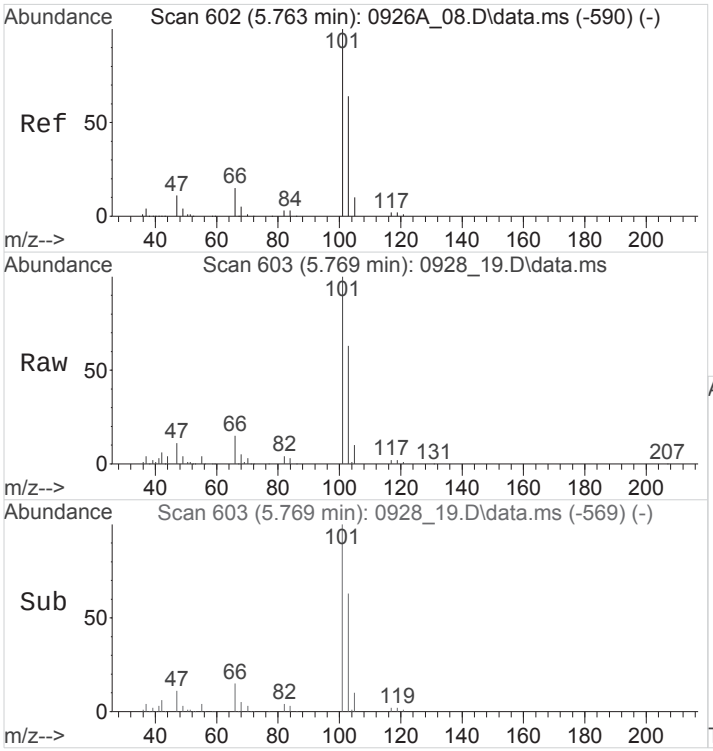


#9
1,3-Butadiene
Concen: 1.0652899 ppbv
RT: 4.758 min Scan# 437
Delta R.T. 0.007 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 39 Resp: 95722

Ion	Ratio	Lower	Upper
39	100		
54	63.5	73.4	110.0#

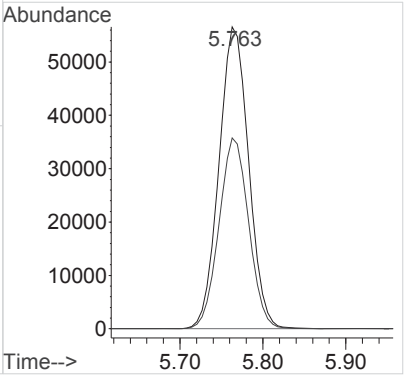


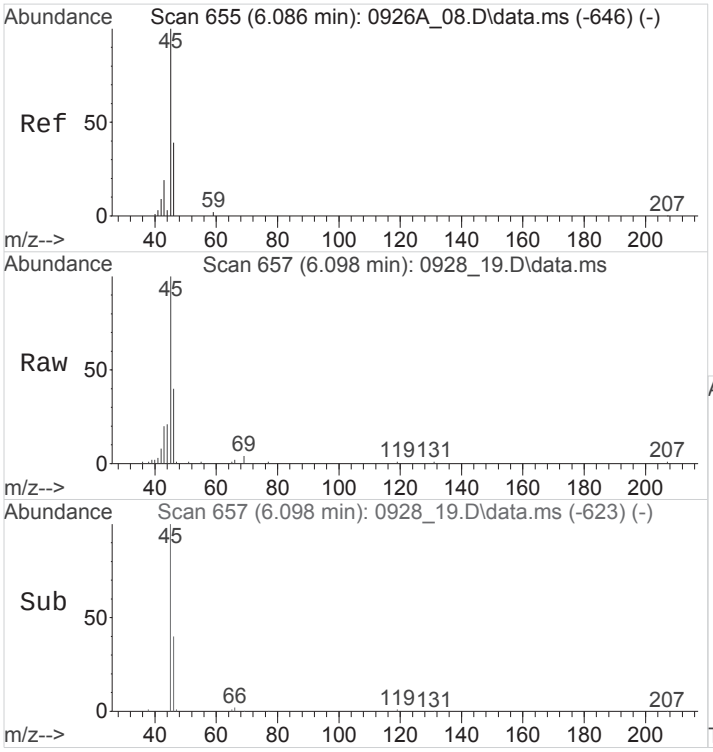


#13
Trichlorofluoromethane
Concen: 7.7605621 ppbv
RT: 5.767 min Scan# 603
Delta R.T. 0.006 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:101 Resp: 1406801

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.7	77.5

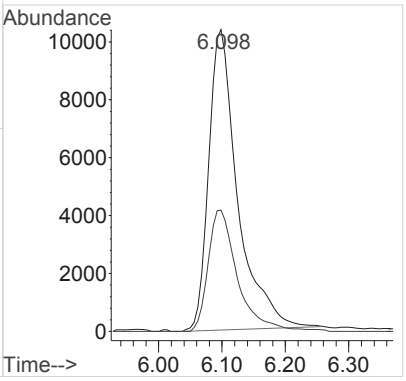


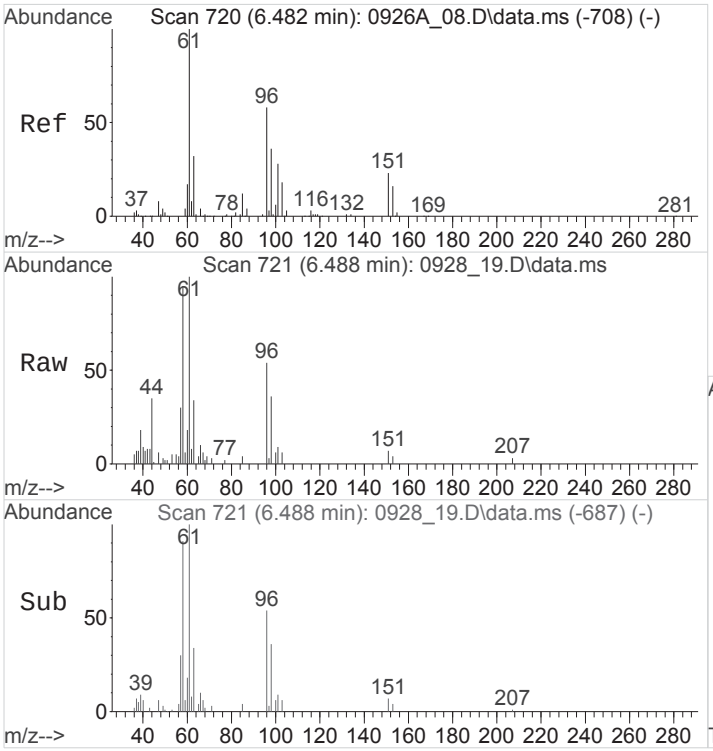


#14
Ethanol
Concen: 20.2356077 ppbv
RT: 6.099 min Scan# 657
Delta R.T. 0.011 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 45 Resp: 331309

Ion	Ratio	Lower	Upper
45	100		
46	39.6	33.0	49.4

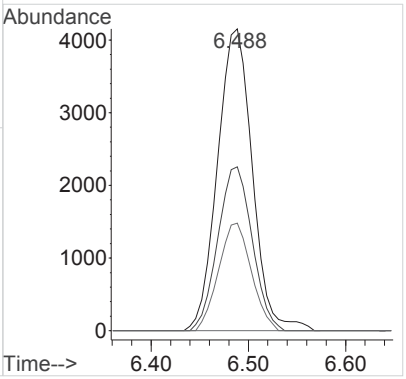


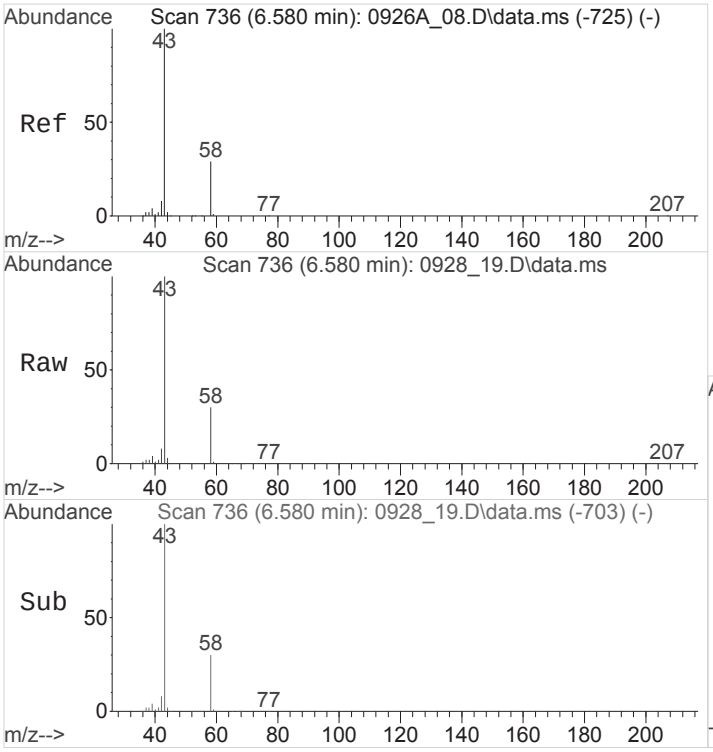


#16
1,1-Dichloroethene
Concen: 0.6808660 ppbv
RT: 6.489 min Scan# 721
Delta R.T. 0.007 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 61 Resp: 103623

Ion	Ratio	Lower	Upper
61	100		
96	53.4	45.2	67.8
98	33.5	28.8	43.2

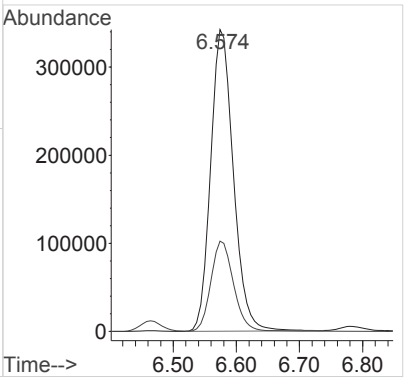


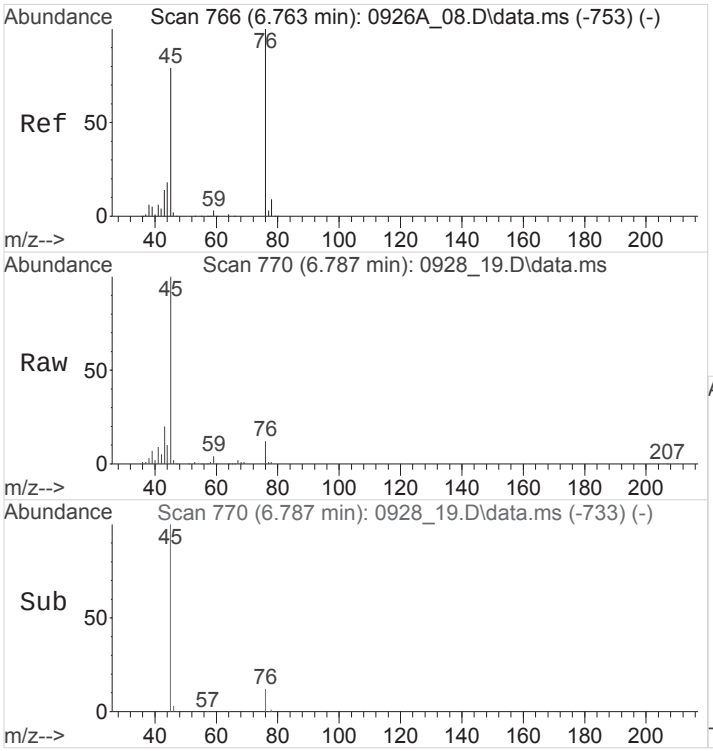


#17
Acetone
Concen: 29.2774592 ppbv
RT: 6.578 min Scan# 736
Delta R.T. -0.001 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 43 Resp: 8556026

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.1	34.7

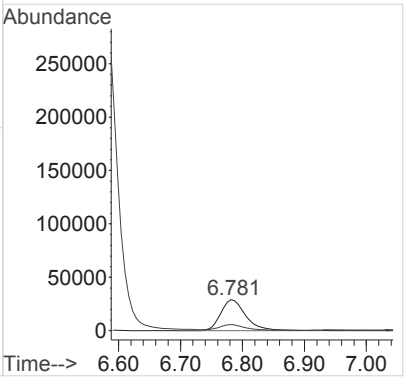


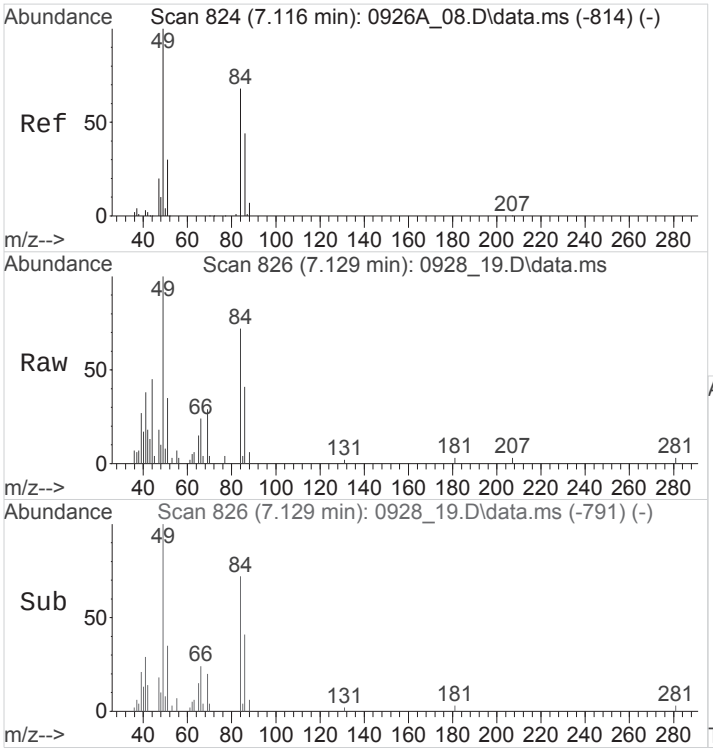


#18
2-Propanol
Concen: 4.1021740 ppbv
RT: 6.785 min Scan# 770
Delta R.T. 0.025 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 45 Resp: 809740

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

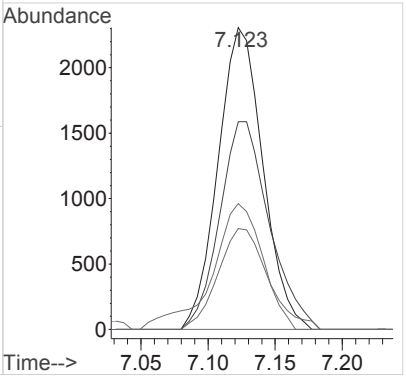


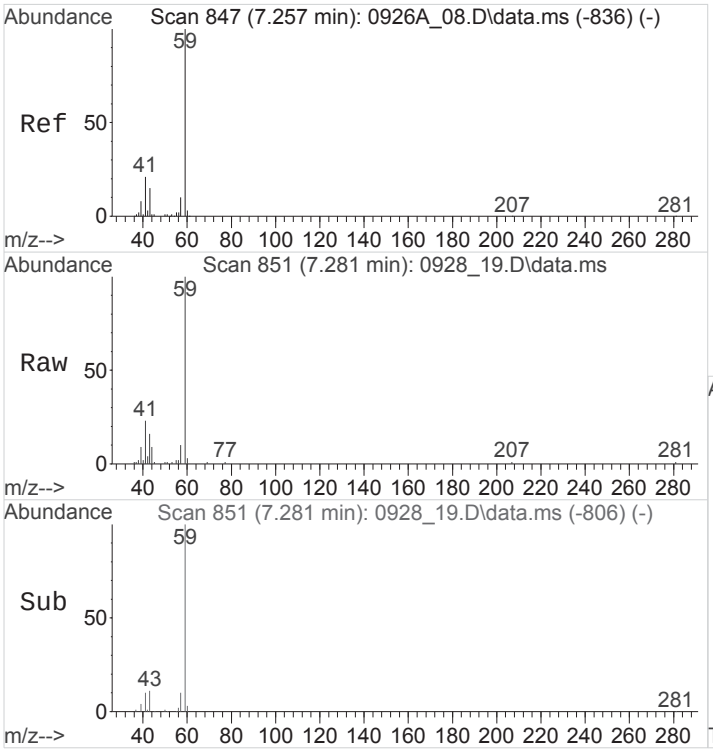


#21
Methylene Chloride
Concen: 0.4472868 ppbv
RT: 7.126 min Scan# 826
Delta R.T. 0.010 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 49 Resp: 53697

Ion	Ratio	Lower	Upper
49	100		
84	75.7	54.2	81.2
86	47.0	35.1	52.7
51	37.2	24.5	36.7#

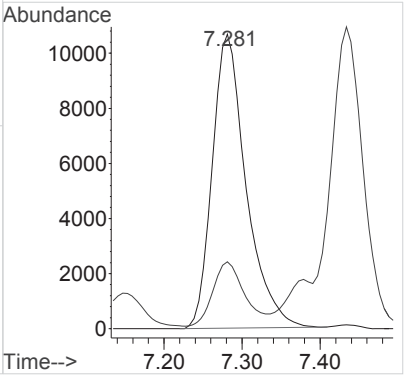


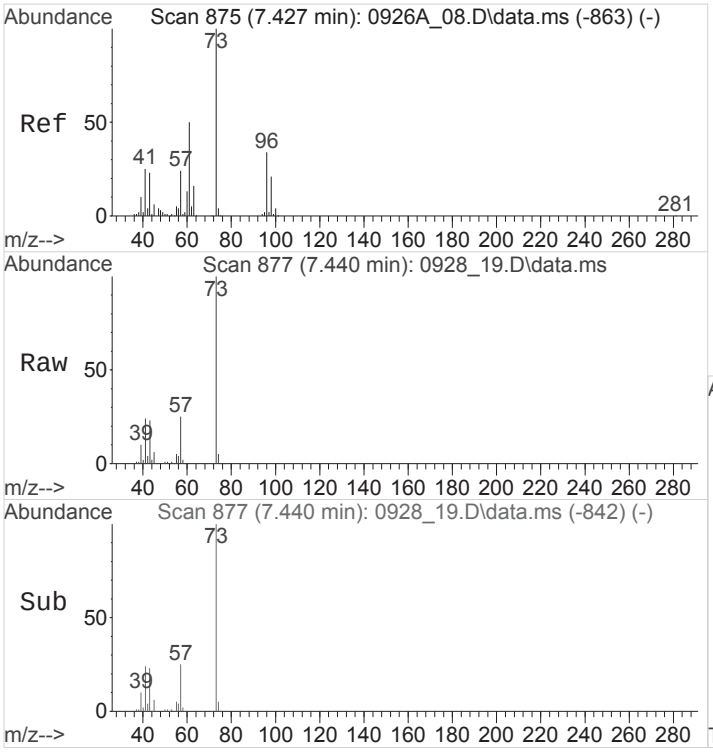


#22
TERT-BUTYL ALCOHOL
Concen: 1.4641272 ppbv
RT: 7.283 min Scan# 851
Delta R.T. 0.028 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 59 Resp: 320686

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

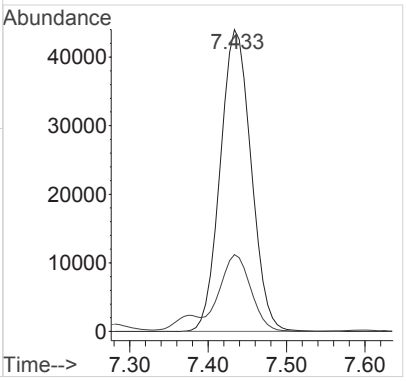


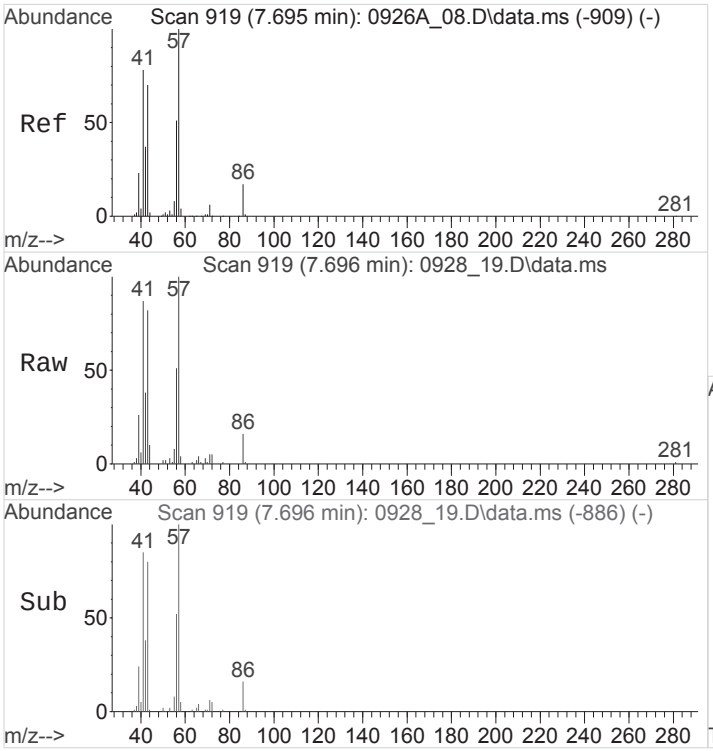


#23
Methyl Tert-Butyl Ether
Concen: 4.5213606 ppbv
RT: 7.437 min Scan# 877
Delta R.T. 0.011 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 73 Resp: 1200197

Ion	Ratio	Lower	Upper
73	100		
57	29.9	19.5	29.3#

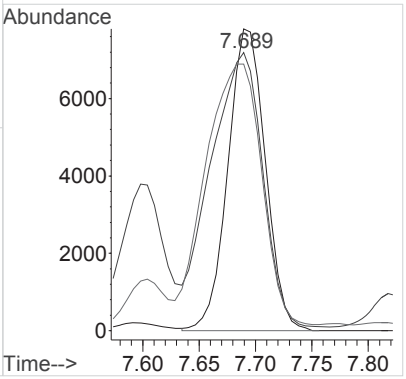


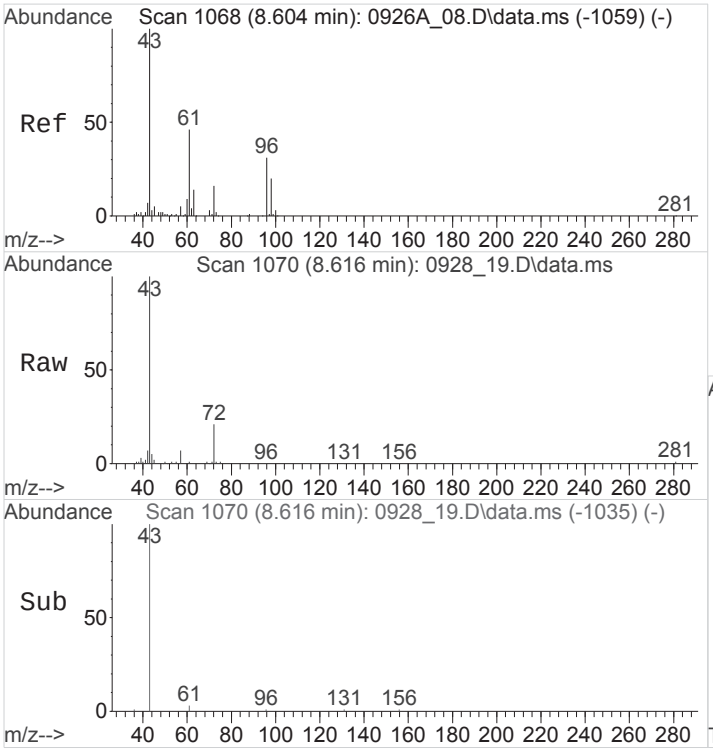


#25
n-Hexane
Concen: 1.1686133 ppbv
RT: 7.695 min Scan# 919
Delta R.T. 0.002 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 57 Resp: 180521

Ion	Ratio	Lower	Upper
57	100		
41	126.3	63.2	94.8#
43	129.1	56.0	84.0#

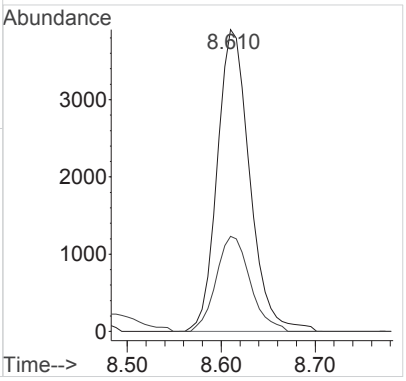


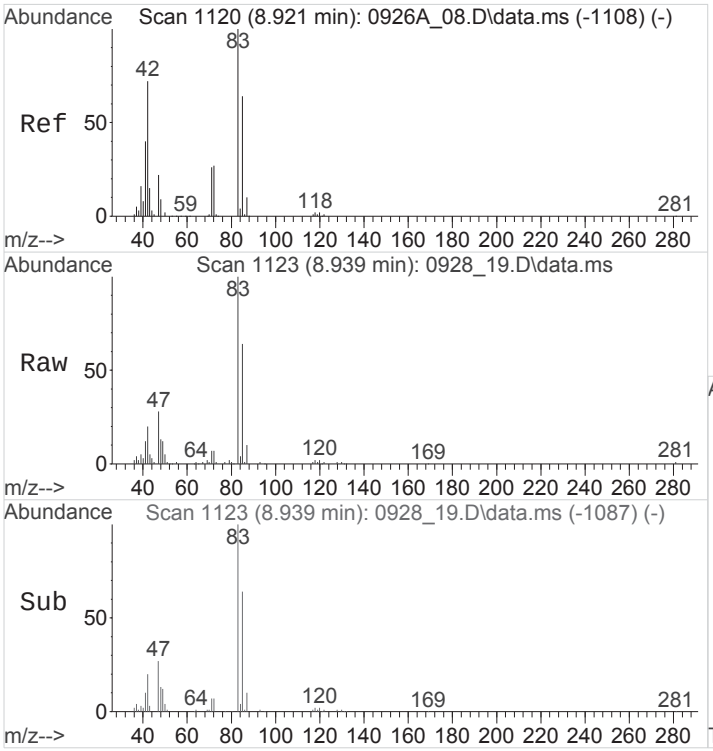


#29
2-Butanone (MEK)
Concen: 2.0735331 ppbv
RT: 8.614 min Scan# 1070
Delta R.T. 0.013 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 72 Resp: 93849

Ion	Ratio	Lower	Upper
72	100		
57	31.2	25.6	38.4

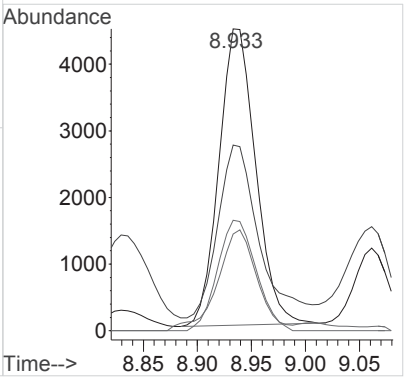


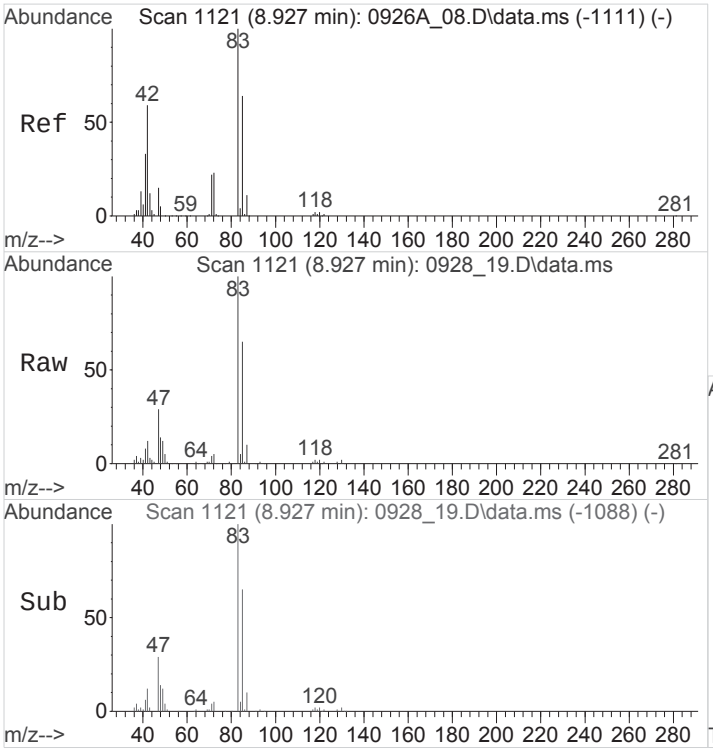


#31
Tetrahydrofuran
Concen: 0.8201090 ppbv
RT: 8.939 min Scan# 1123
Delta R.T. 0.019 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 42 Resp: 105164

Ion	Ratio	Lower	Upper
42	100		
41	57.6	44.2	66.4
72	39.2	29.6	44.4
71	36.2	28.2	42.2

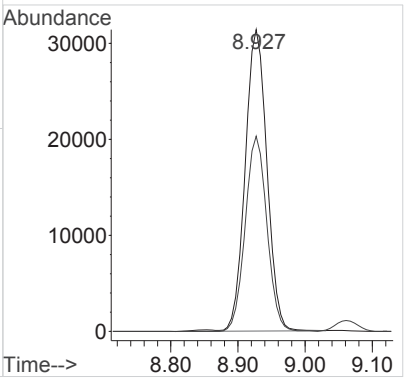


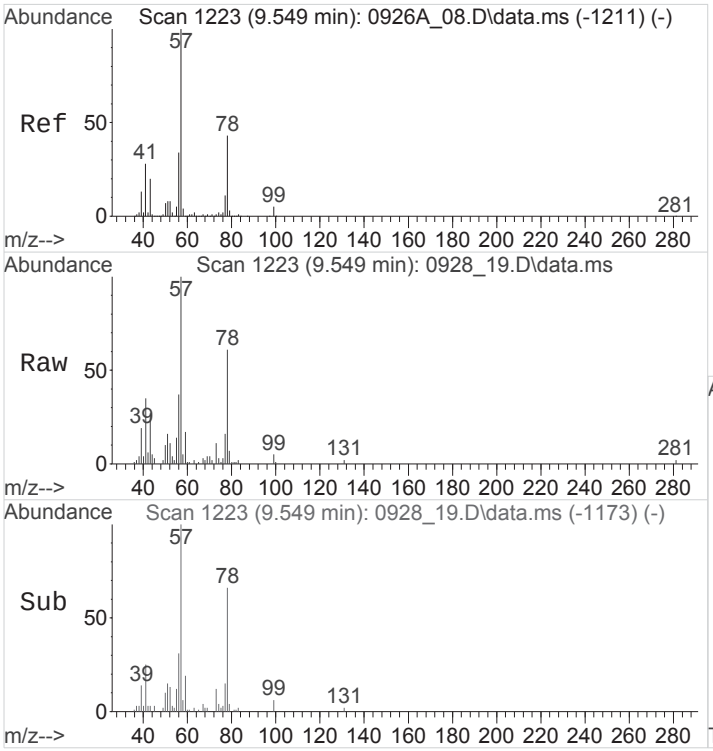


#32
Chloroform
Concen: 4.0994910 ppbv
RT: 8.929 min Scan# 1121
Delta R.T. 0.003 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 83 Resp: 706527

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.6

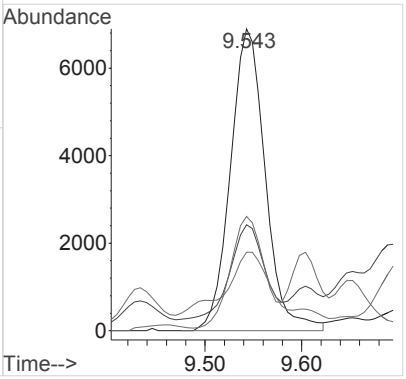


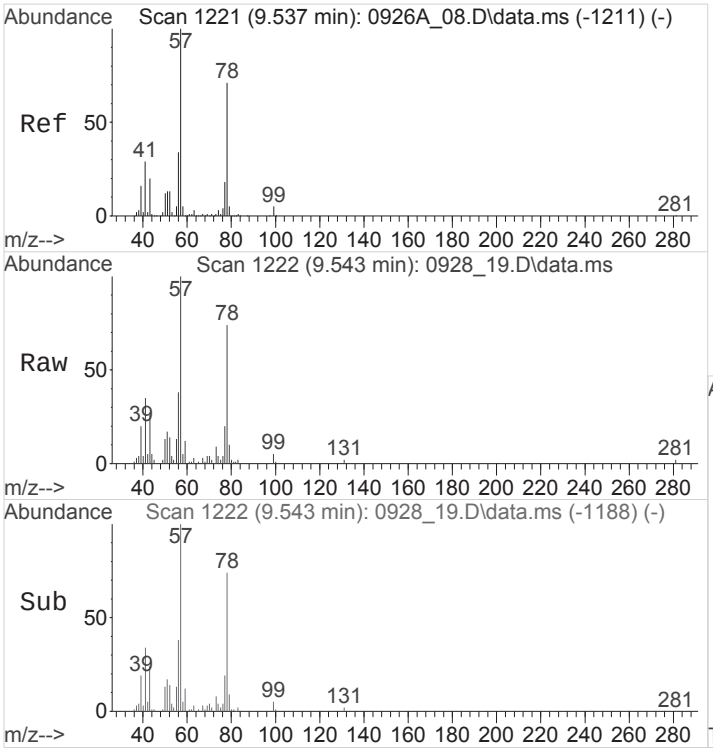


#36
2,2,4-Trimethylpentane
Concen: 0.3337209 ppbv
RT: 9.547 min Scan# 1223
Delta R.T. -0.000 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 57 Resp: 172271

Ion	Ratio	Lower	Upper
57	100		
41	31.2	22.7	34.1
43	0.0	16.6	25.0#
56	34.1	27.2	40.8

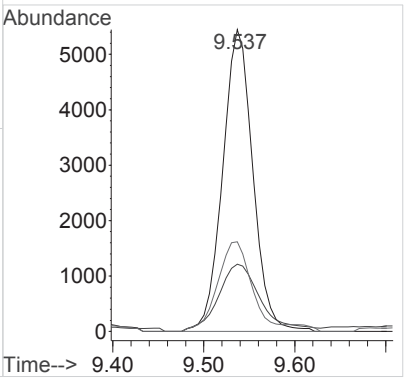


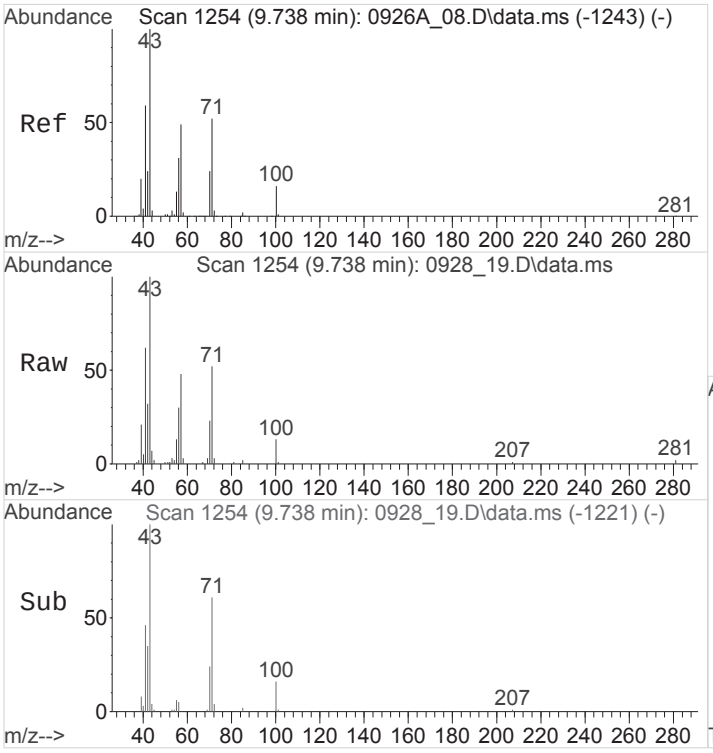


#38
Benzene
Concen: 0.4089864 ppbv
RT: 9.540 min Scan# 1222
Delta R.T. 0.002 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 78 Resp: 125751

Ion	Ratio	Lower	Upper
78	100		
51	28.8	15.4	23.0#
77	35.3	19.9	29.9#

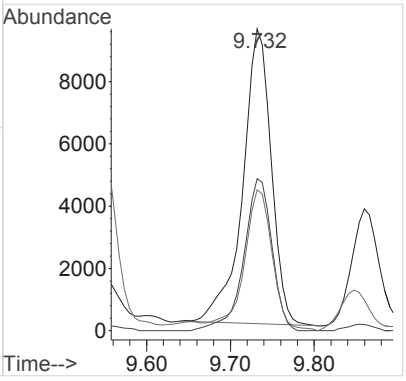


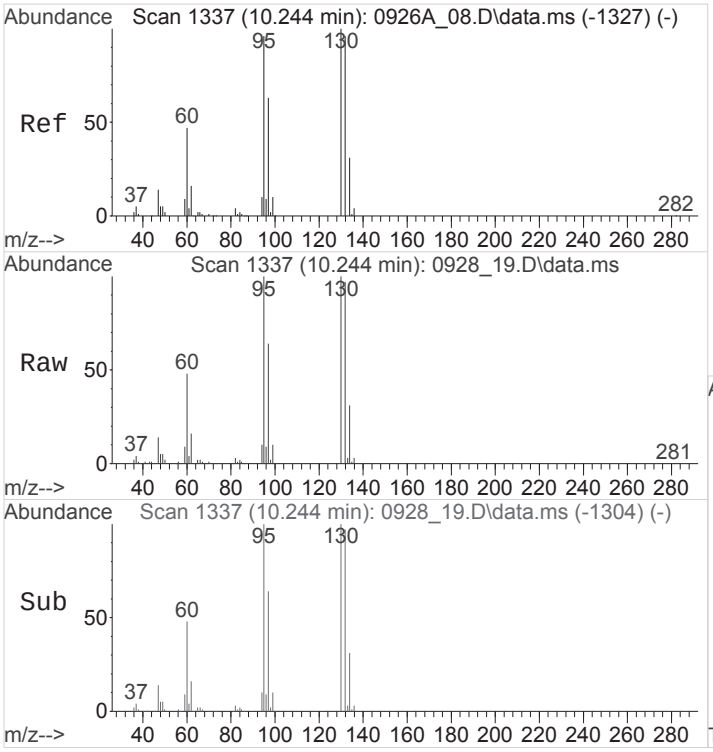


#40
Heptane
Concen: 1.0527403 ppbv
RT: 9.736 min Scan# 1254
Delta R.T. -0.001 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 43 Resp: 223521

Ion	Ratio	Lower	Upper
43	100		
71	50.9	41.4	62.0
57	41.4	39.3	58.9

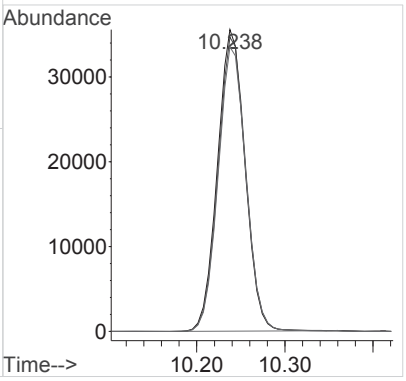


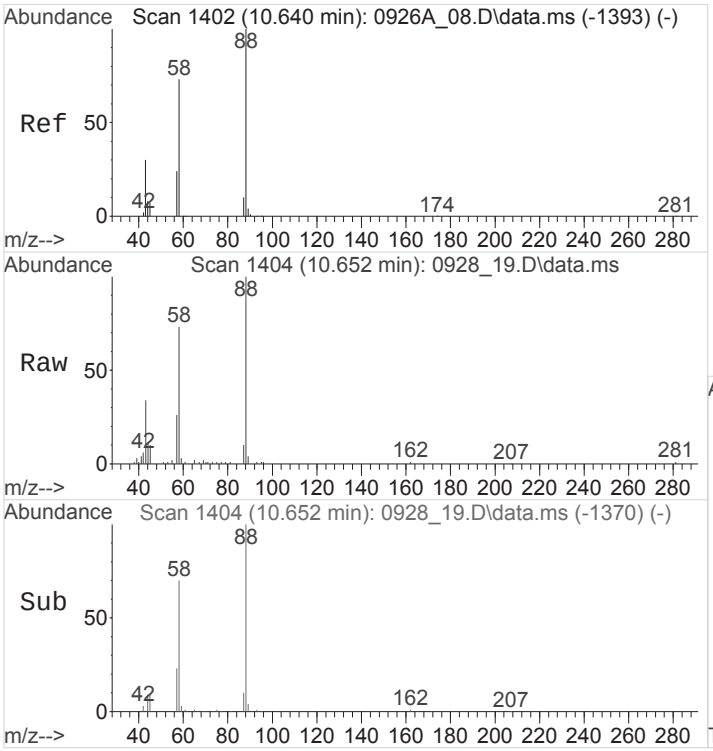


#41
Trichloroethene
Concen: 6.4386310 ppbv
RT: 10.242 min Scan# 1337
Delta R.T. 0.000 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 95 Resp: 771158

Ion	Ratio	Lower	Upper
95	100		
130	97.8	81.6	122.4
132	94.9	77.8	116.6

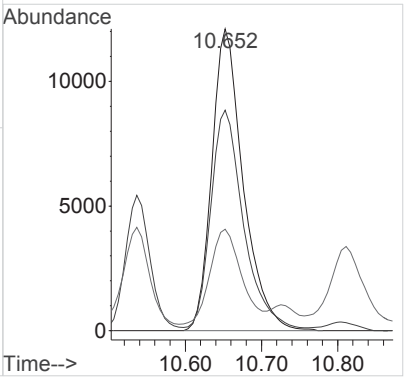


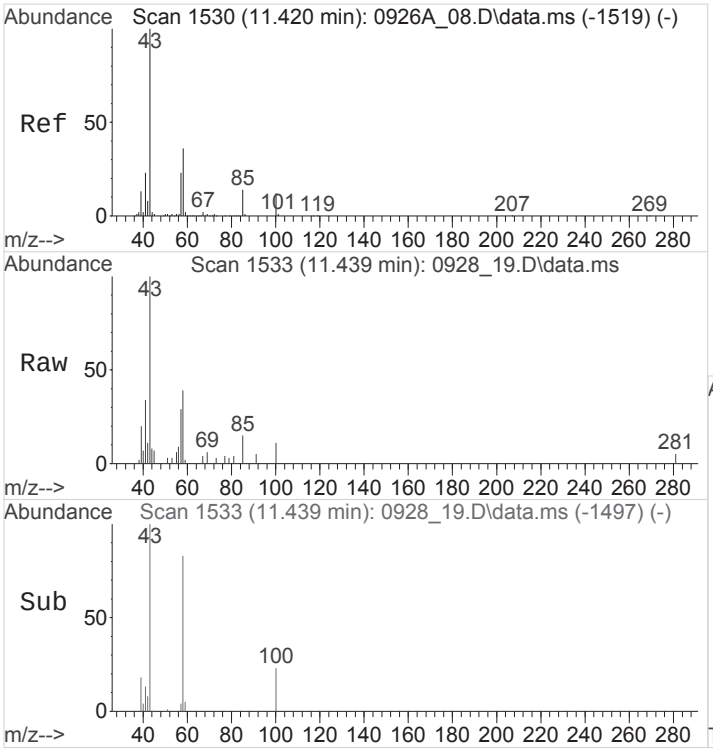


#46
1,4-Dioxane
Concen: 6.4678456 ppbv
RT: 10.655 min Scan# 1404
Delta R.T. 0.013 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 88 Resp: 346691

Ion	Ratio	Lower	Upper
88	100		
58	74.8	58.7	88.1
43	26.0	0.0	0.0#

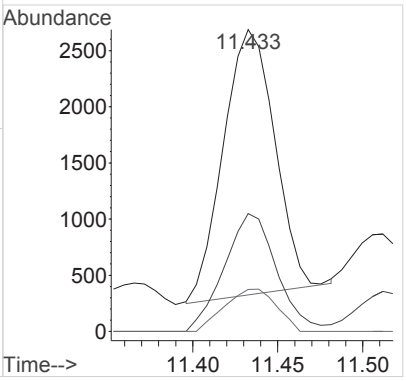


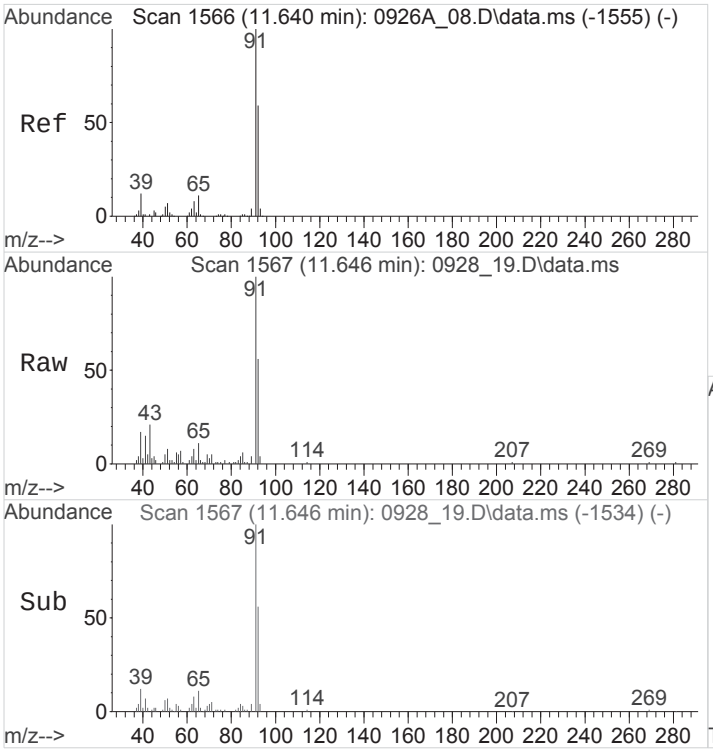


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1773456 ppbv
RT: 11.436 min Scan# 1533
Delta R.T. 0.014 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 43 Resp: 48752

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.6#
85	0.0	11.0	16.6#

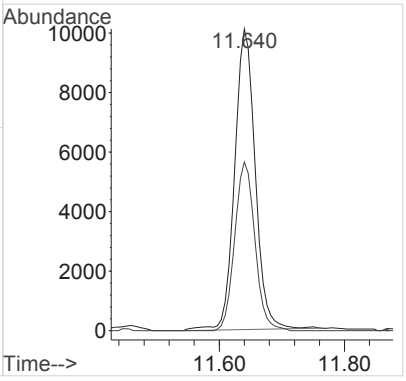


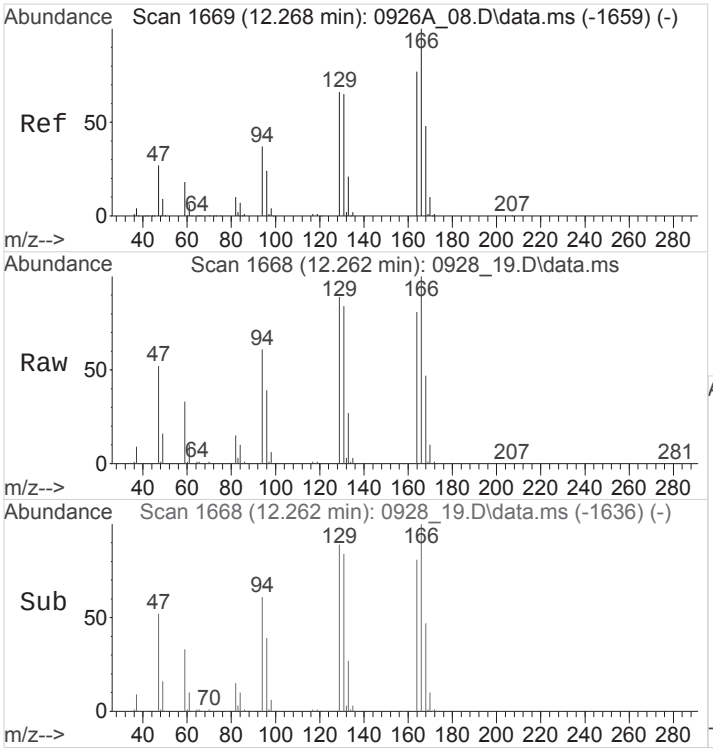


#50
Toluene
Concen: 0.6292758 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 230780

Ion	Ratio	Lower	Upper
91	100		
92	55.1	46.6	70.0

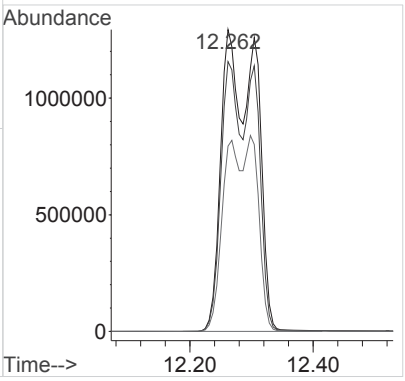


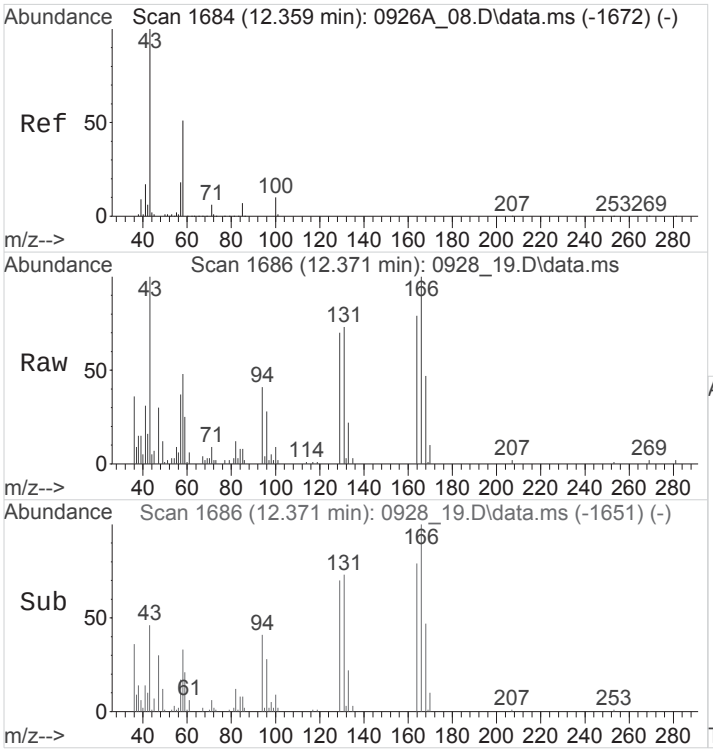


#53
Tetrachloroethene
Concen: 321.5736029 ppbv m
RT: 12.262 min Scan# 1668
Delta R.T. -0.005 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:166 Resp:49766159

Ion	Ratio	Lower	Upper
166	100		
129	46.3	55.0	82.6#
94	32.0	31.3	46.9

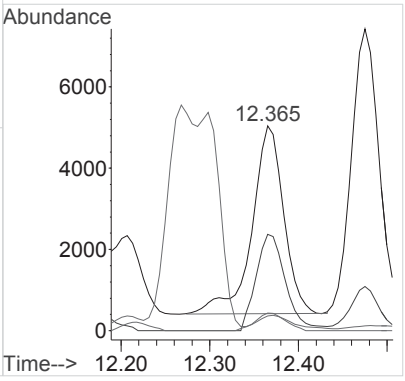


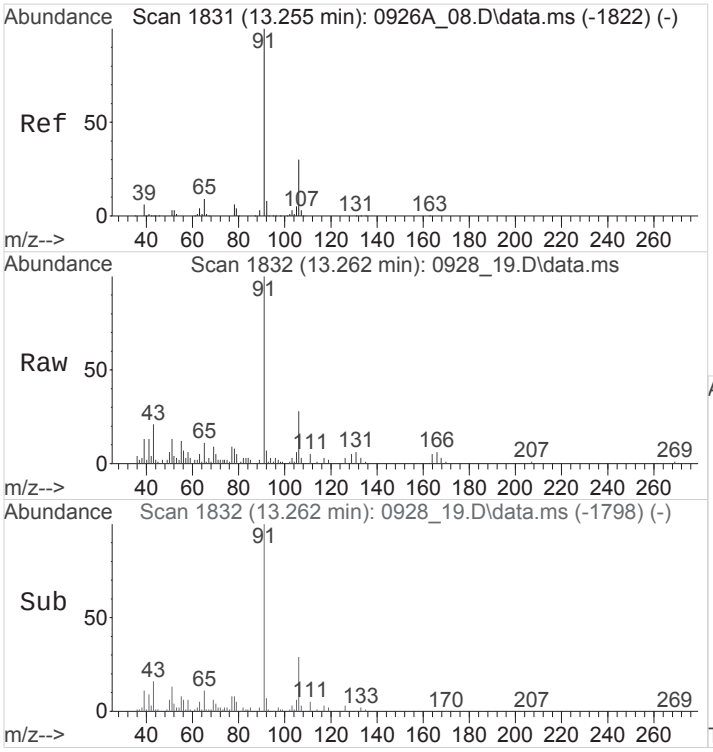


#54
Methyl Butyl Ketone
Concen: 0.5488576 ppbv
RT: 12.369 min Scan# 1686
Delta R.T. 0.012 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 43 Resp: 115201

Ion	Ratio	Lower	Upper
43	100		
58	43.9	41.0	61.4
85	79.7	5.6	8.4#
100	0.0	7.8	11.8#

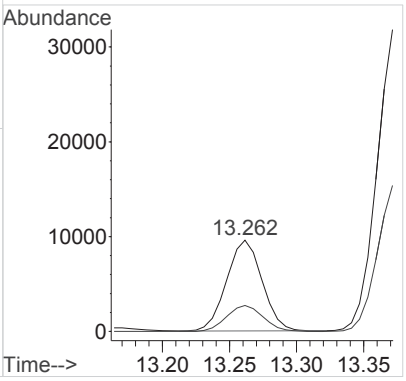


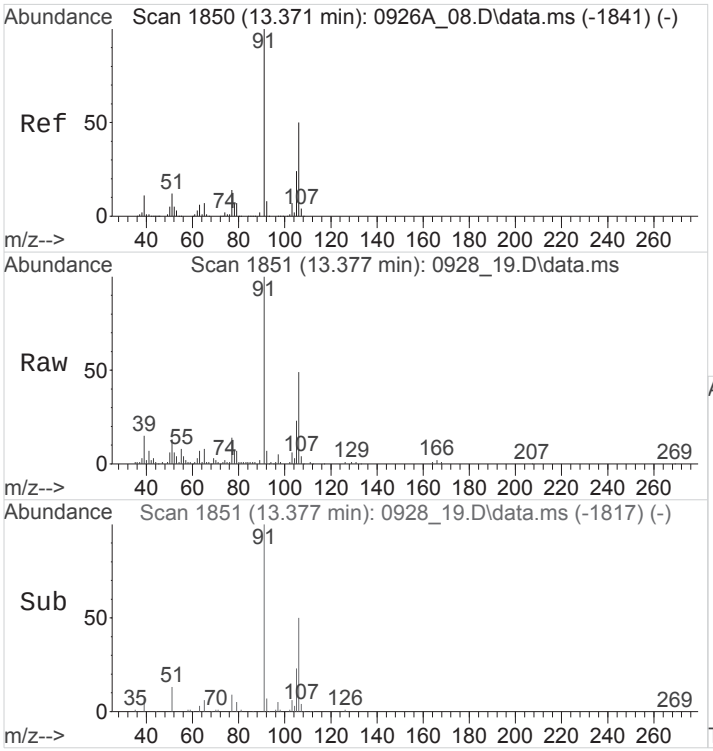


#59
Ethylbenzene
Concen: 0.4555262 ppbv
RT: 13.264 min Scan# 1832
Delta R.T. 0.006 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 175339

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

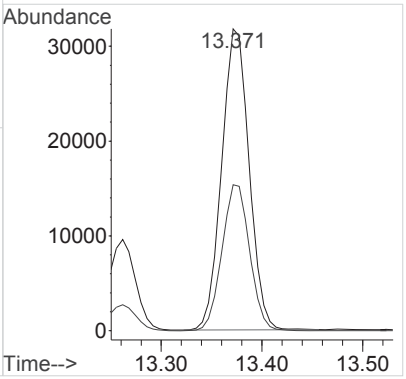


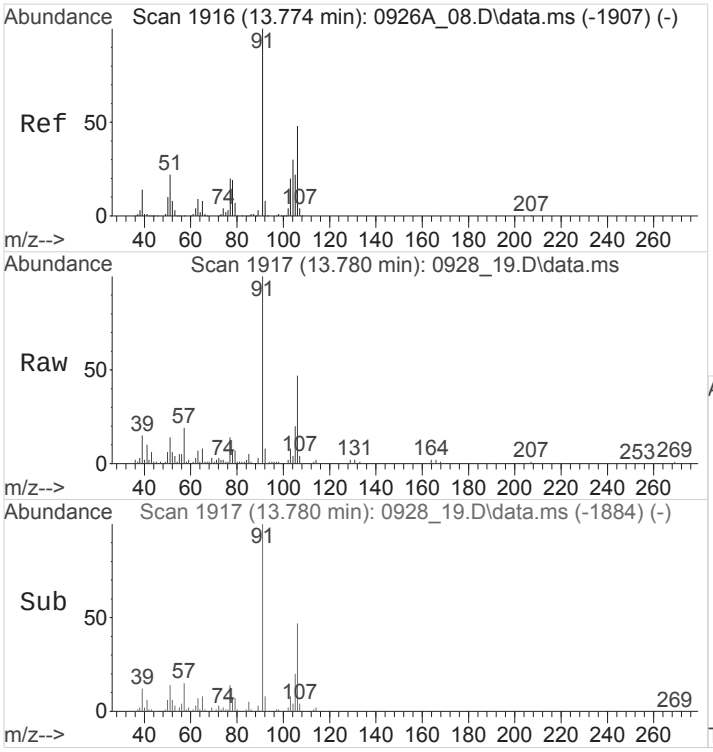


#60
M&P-Xylene
Concen: 2.0631249 ppbv
RT: 13.376 min Scan# 1851
Delta R.T. 0.004 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 600155

Ion	Ratio	Lower	Upper
91	100		
106	48.9	39.8	59.6

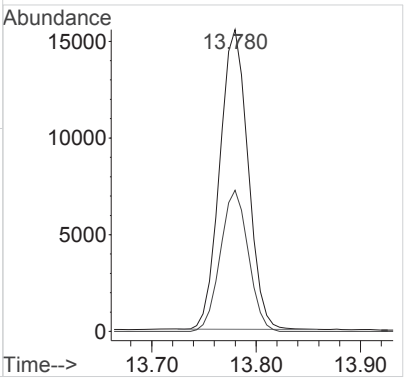


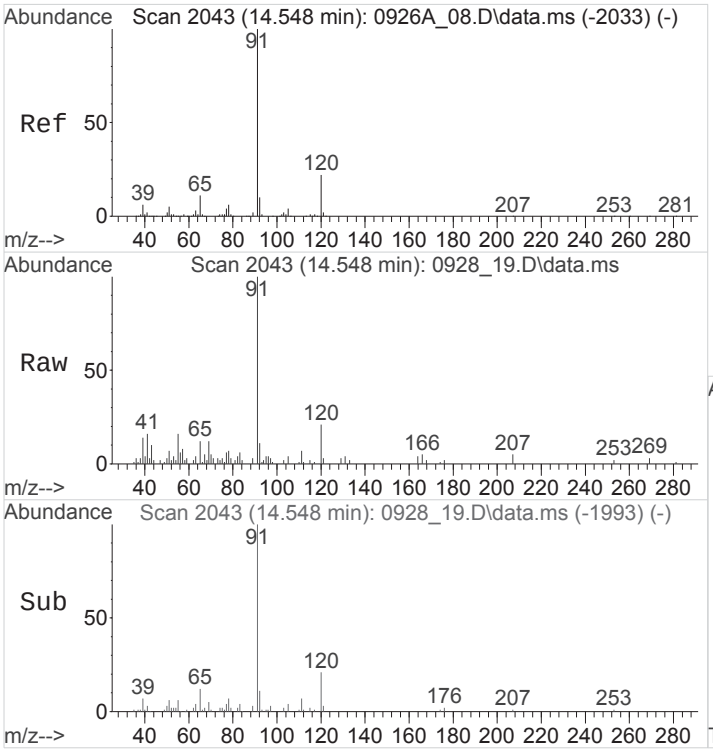


#61
O-Xylene
Concen: 0.9791921 ppbv
RT: 13.781 min Scan# 1917
Delta R.T. 0.005 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 290036

Ion	Ratio	Lower	Upper
91	100		
106	46.6	38.2	57.2

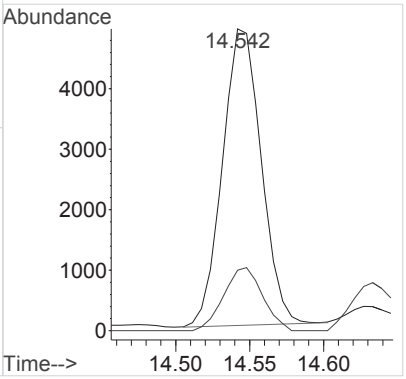


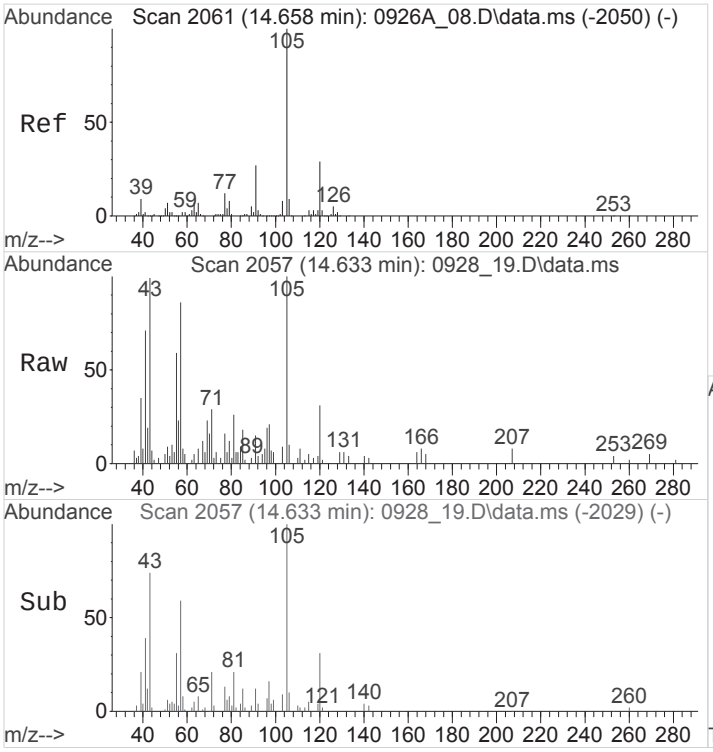


#66
n-Propylbenzene
Concen: 0.1847532 ppbv
RT: 14.547 min Scan# 2043
Delta R.T. 0.002 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 89253

Ion	Ratio	Lower	Upper
91	100		
120	0.0	17.1	25.7#

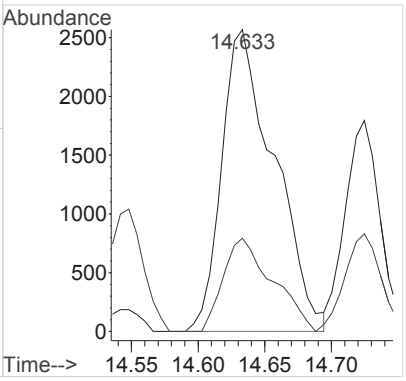


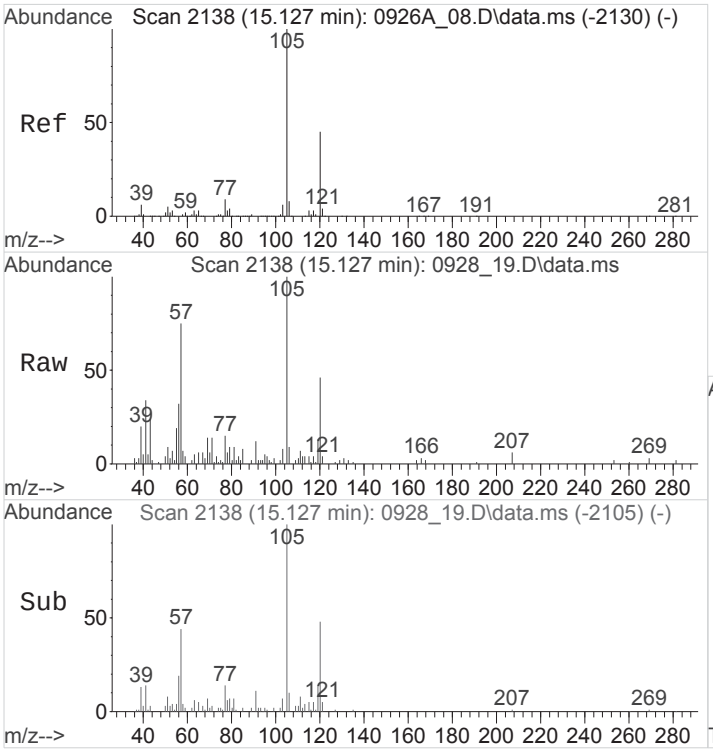


#67
4-Ethyltoluene
Concen: 0.1774783 ppbv
RT: 14.634 min Scan# 2057
Delta R.T. -0.026 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:105 Resp: 69906

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#

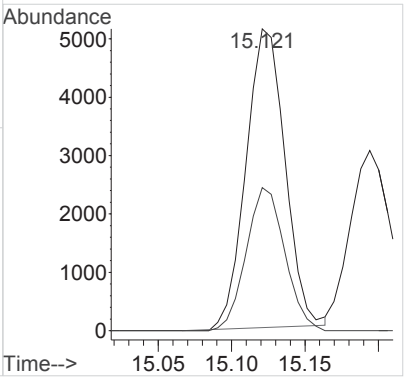


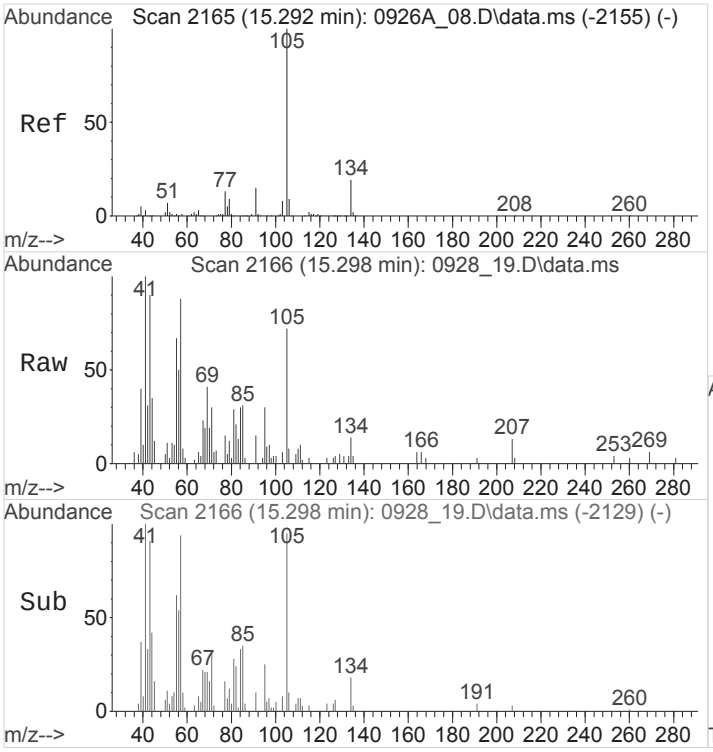


#72
1,2,4-Trimethylbenzene
Concen: 0.2849104 ppbv
RT: 15.126 min Scan# 2138
Delta R.T. 0.002 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:105 Resp: 93458

Ion	Ratio	Lower	Upper
105	100		
120	47.9	37.5	56.3

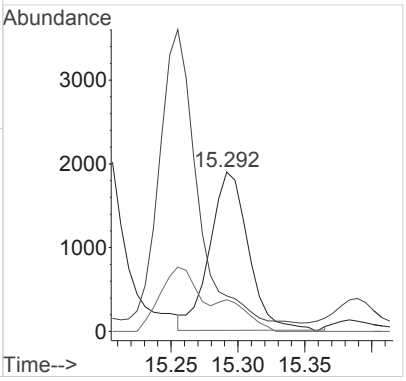


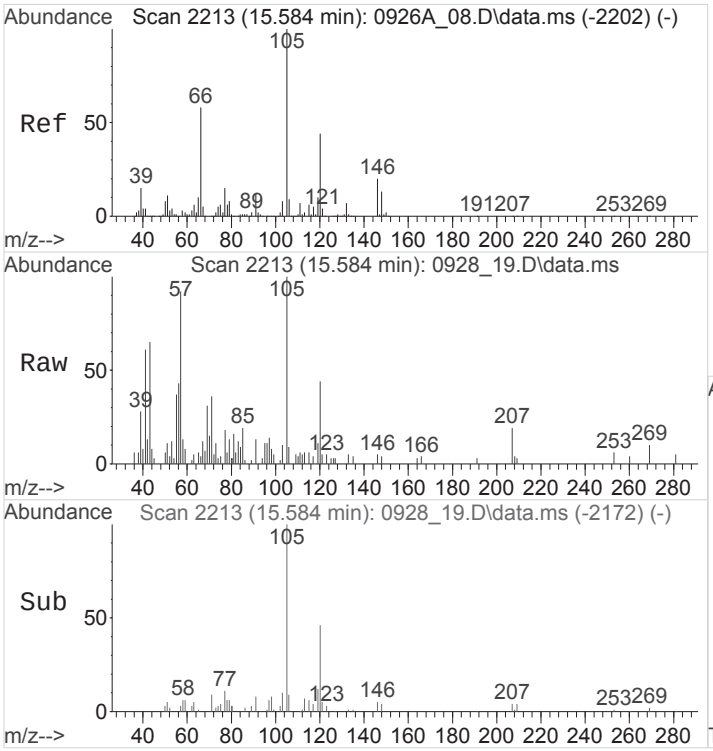


#73
sec-Butylbenzene
Concen: 0.0751096 ppbv
RT: 15.296 min Scan# 2166
Delta R.T. 0.001 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:105 Resp: 38130

Ion	Ratio	Lower	Upper
105	100		
91	184.6	12.2	18.2#
134	0.0	15.1	22.7#

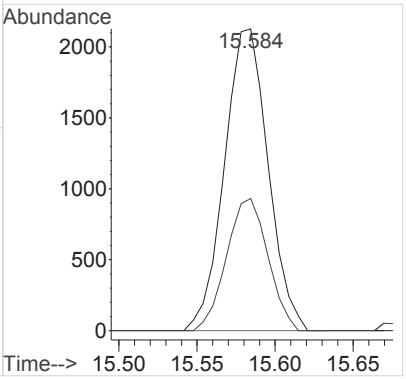


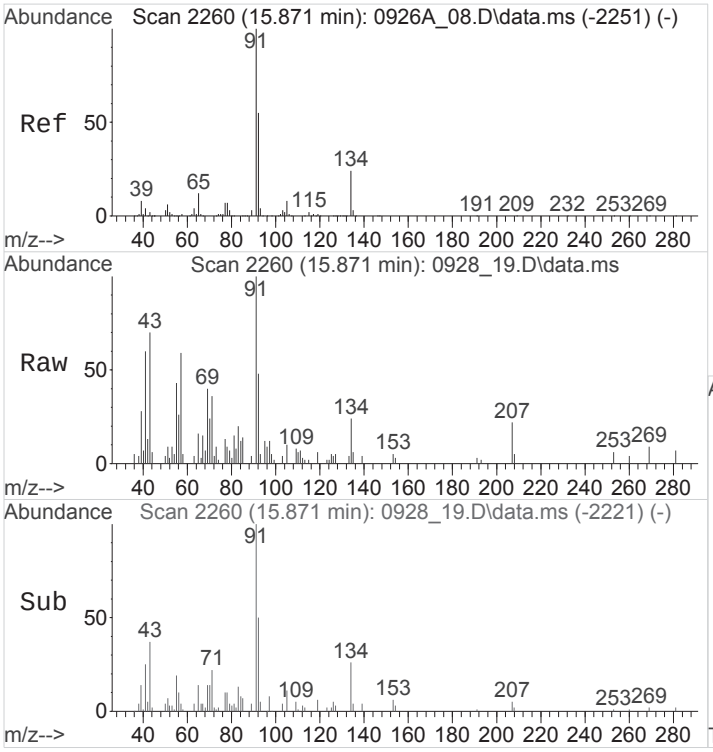


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.1242126 ppbv
RT: 15.584 min Scan# 2213
Delta R.T. 0.001 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:105 Resp: 41342

Ion	Ratio	Lower	Upper
105	100		
120	0.0	34.6	52.0#

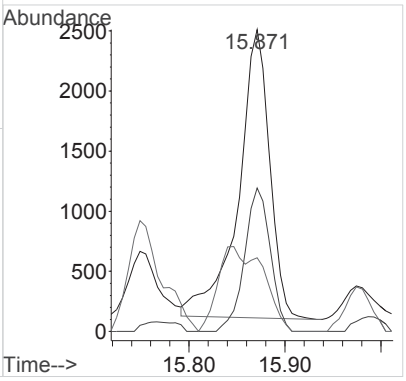


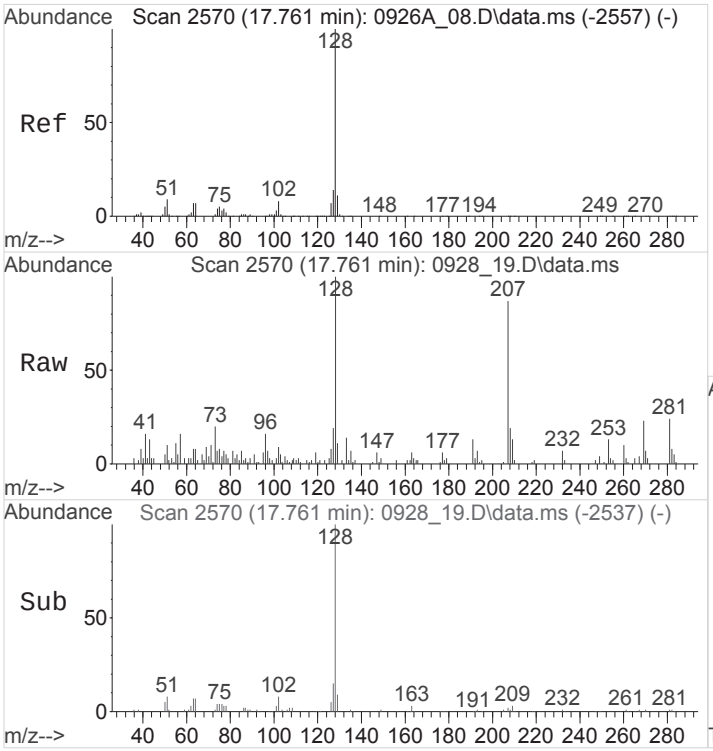


#79
n-Butylbenzene
Concen: 0.1461878 ppbv
RT: 15.873 min Scan# 2260
Delta R.T. -0.000 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion: 91 Resp: 54577

Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.8	65.8#
134	0.0	19.4	29.0#

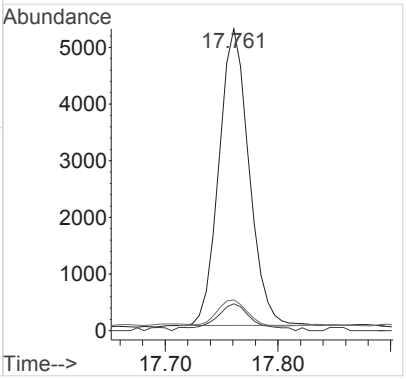


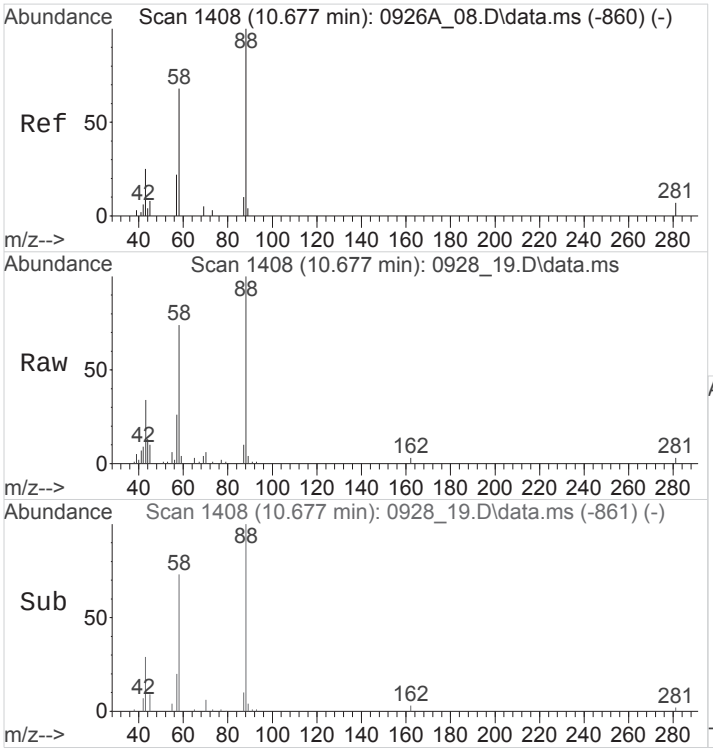


#83
Naphthalene
Concen: 0.5547688 ppbv
RT: 17.763 min Scan# 2570
Delta R.T. 0.003 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

Tgt Ion:128 Resp: 97070

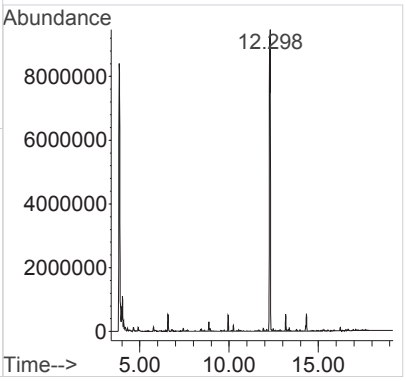
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 638.2721105 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_19.D
Acq: 28 Sep 2016 8:32 pm

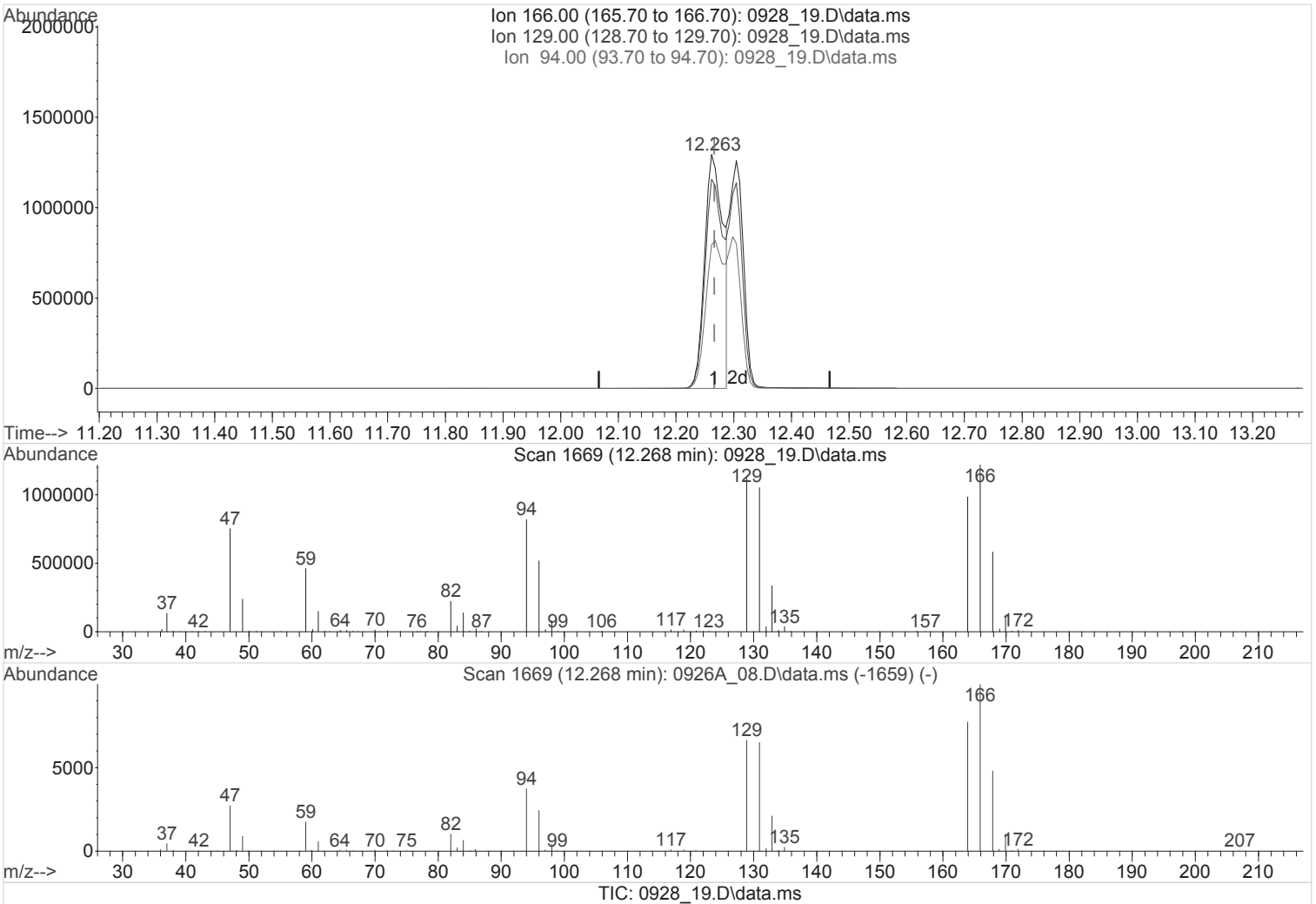
Tgt Ion:TIC Resp:436724623



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_19.D
Acq On : 28 Sep 2016 8:32 pm
Operator : 564
Sample : L861822-15 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:36 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



TIC: 0928_19.D\data.ms

(53) Tetrachloroethene (T,M)

12.266min (-0.001) 83.8308695 ppbv E

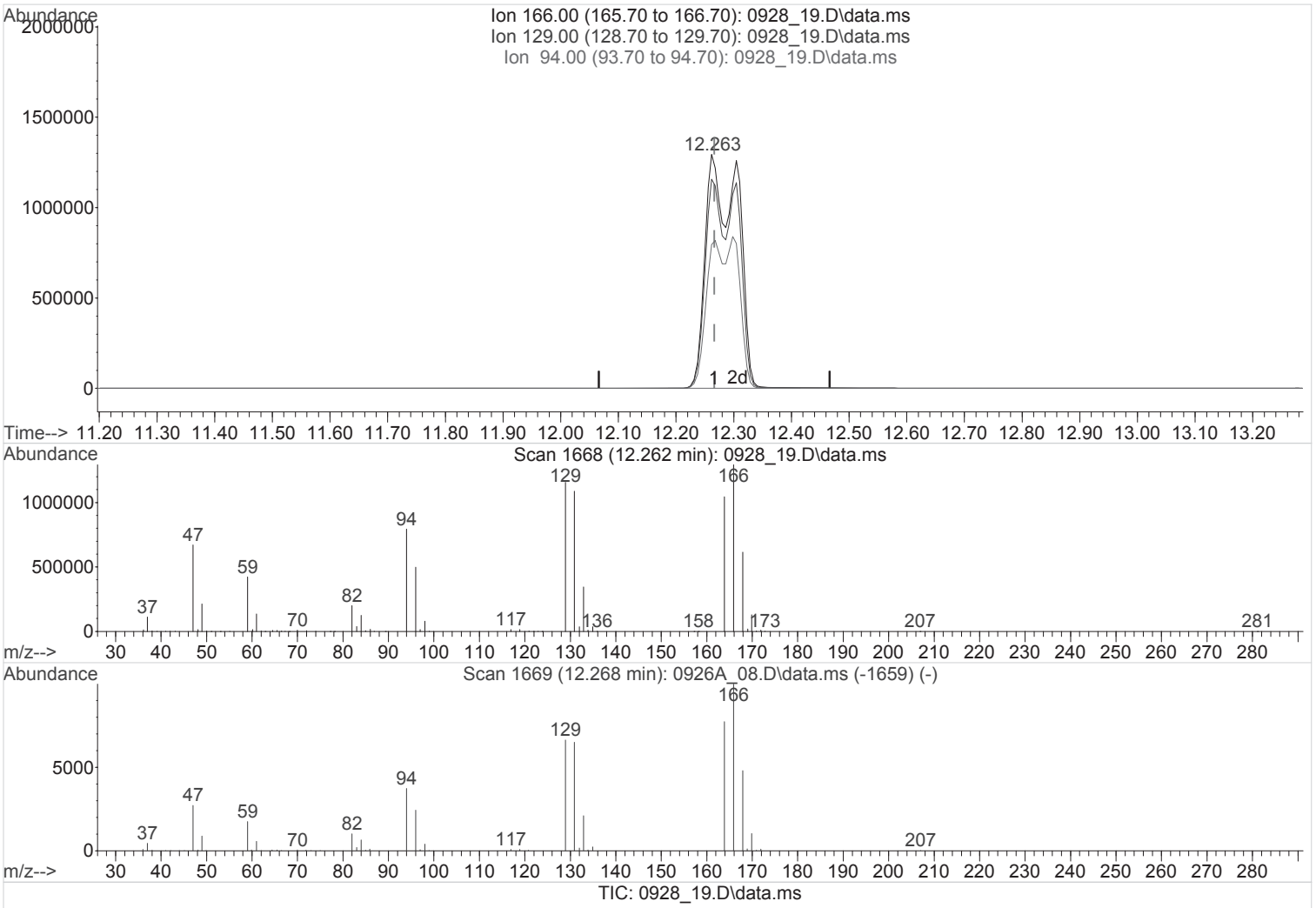
Qvalue = 71

response 25947033 Limit = 0.0994000

Ion	Exp%	Act%
166.00	100	100
129.00	68.80	88.89#
94.00	39.10	61.38#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_19.D
Acq On : 28 Sep 2016 8:32 pm
Operator : 564
Sample : L861822-15 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:36 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



(53) Tetrachloroethene (T,M)

12.262min (-0.005) 160.7868015 ppbv m E

response 49766159 Limit = 0.0994000

Ion	Exp%	Act%
166.00	100	100
129.00	68.80	46.34#
94.00	39.10	32.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_20.D
Acq On : 28 Sep 2016 9:16 pm
Operator : 564
Sample : L861822-16 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 20 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:30:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

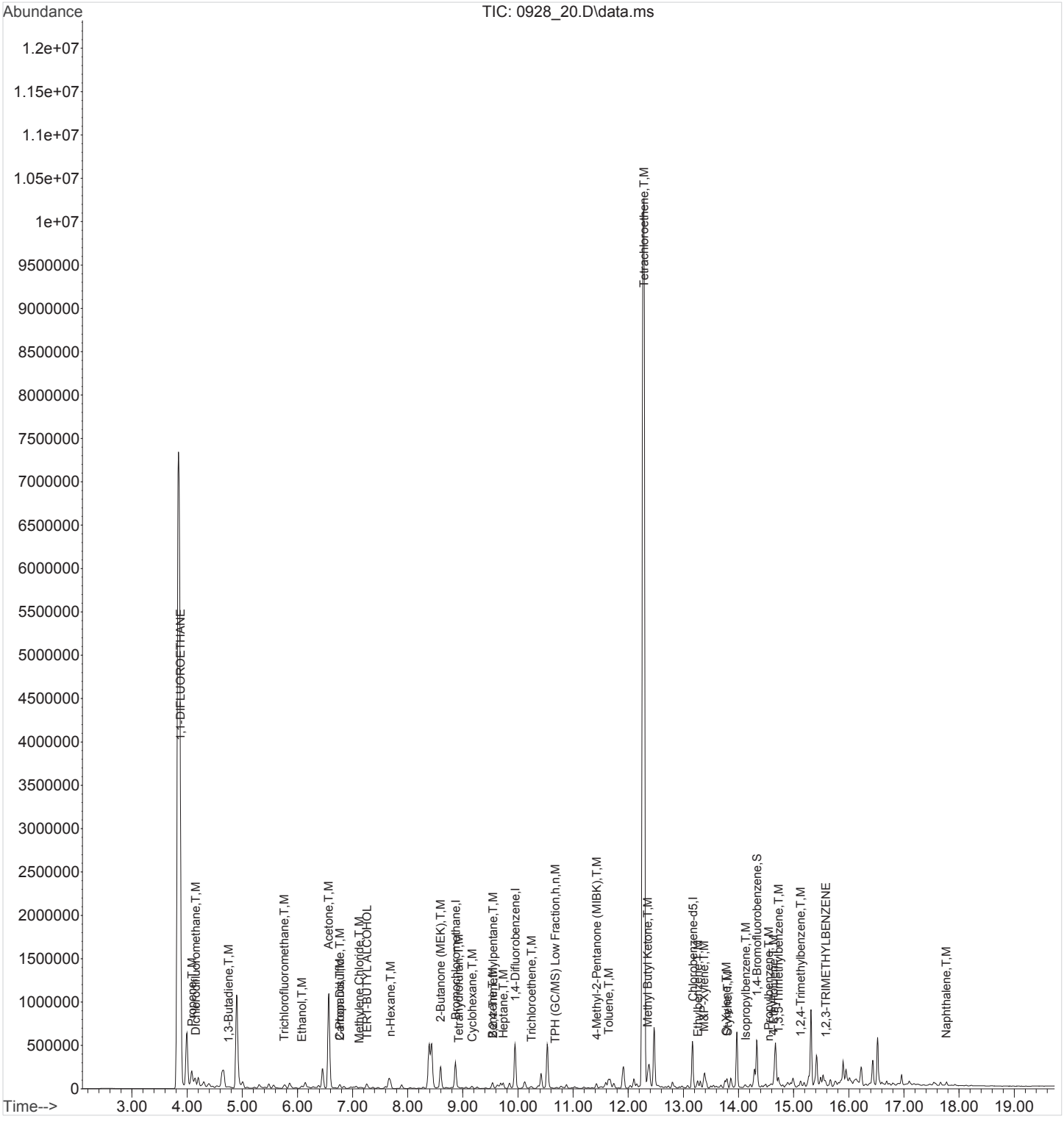
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.870	130	1133083	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.950	114	4663604	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.167	117	3173406	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.333	95	2084925	4.2288519	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.72%			
Target Compounds						Qvalue
2) Propene	4.085	41	875178	8.9790100	ppbv	94
3) 1,1-DIFLUOROETHANE	3.879	65	218614	3.5245688	ppbv #	1
4) Dichlorodifluoromethane	4.151	85	122213	0.6523133	ppbv	99
9) 1,3-Butadiene	4.753	39	37601	0.4194704	ppbv #	67
13) Trichlorofluoromethane	5.760	101	320607	1.7728952	ppbv	96
14) Ethanol	6.082	45	405080	24.8012762	ppbv	98
17) Acetone	6.569	43	17314057	59.3894868	ppbv	98
18) 2-Propanol	6.770	45	521828	2.6499961	ppbv #	74
19) Carbon Disulfide	6.771	76	317627	1.2573610	ppbv	94
21) Methylene Chloride	7.125	49	46905	0.3916559	ppbv #	58
22) TERT-BUTYL ALCOHOL	7.260	59	731580	3.3481904	ppbv	94
25) n-Hexane	7.689	57	403433	2.6179709	ppbv #	1
29) 2-Butanone (MEK)	8.599	72	813316	18.0131705	ppbv	100
31) Tetrahydrofuran	8.924	42	86587	0.6768737	ppbv #	61
33) Cyclohexane	9.169	84	67604	0.5225553	ppbv #	31
36) 2,2,4-Trimethylpentane	9.543	57	157627	0.3060923	ppbv #	63
38) Benzene	9.538	78	341760	1.1243500	ppbv #	75
40) Heptane	9.733	43	337814	1.6093999	ppbv #	78
41) Trichloroethene	10.243	95	70964	0.5993327	ppbv	92
49) 4-Methyl-2-Pentanone (...	11.425	43	421129	1.5496335	ppbv	96
50) Toluene	11.644	91	828098	2.2840634	ppbv	100
53) Tetrachloroethene	12.286	166	45587912m	297.9743457	ppbv	
54) Methyl Butyl Ketone	12.356	43	972380	4.6862263	ppbv	99
59) Ethylbenzene	13.261	91	228159	0.5969256	ppbv #	44
60) M&P-Xylene	13.374	91	487413	1.6873595	ppbv	100
61) O-Xylene	13.779	91	205853	0.6998791	ppbv	99
62) Styrene	13.795	104	417679	1.9742465	ppbv	91
64) Isopropylbenzene	14.127	105	150301	0.3718020	ppbv #	85
66) n-Propylbenzene	14.546	91	150932	0.3146318	ppbv #	24
67) 4-Ethyltoluene	14.632	105	304456	0.7783978	ppbv	99
70) 1,3,5-Trimethylbenzene	14.725	105	95192	0.2884170	ppbv	93
72) 1,2,4-Trimethylbenzene	15.125	105	264963	0.8134378	ppbv	100
73) sec-Butylbenzene	15.294	105	36361	0.0721283	ppbv #	60
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	109096	0.3300854	ppbv	99
83) Naphthalene	17.764	128	58001	0.3338227	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	527109181m	775.7956789	ppbv	

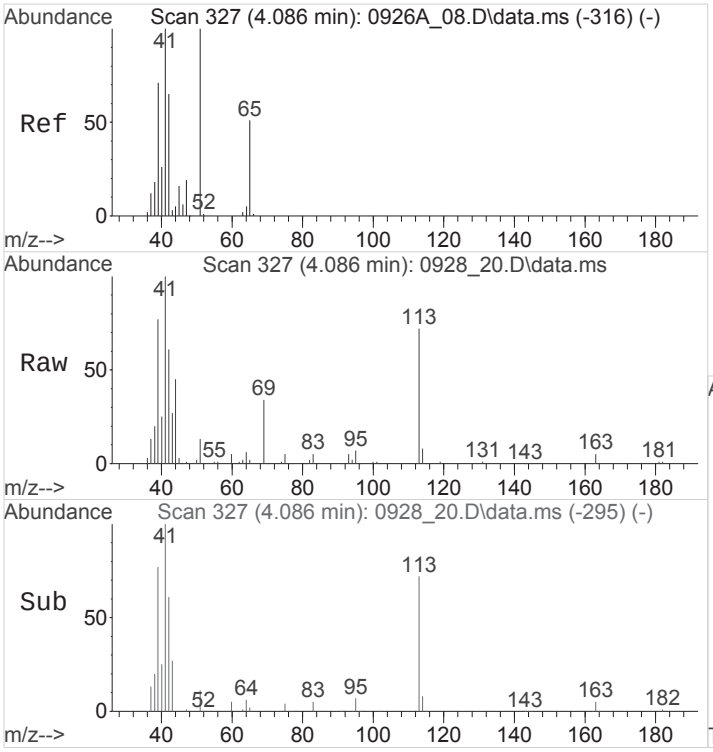
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_20.D
Acq On : 28 Sep 2016 9:16 pm
Operator : 564
Sample : L861822-16 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 20 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 08:30:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

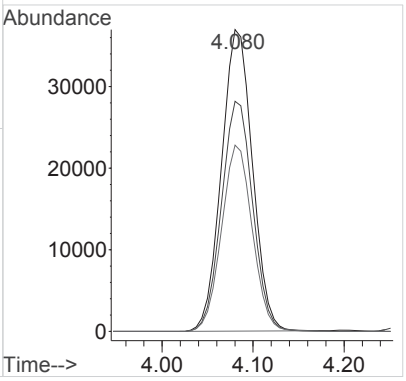


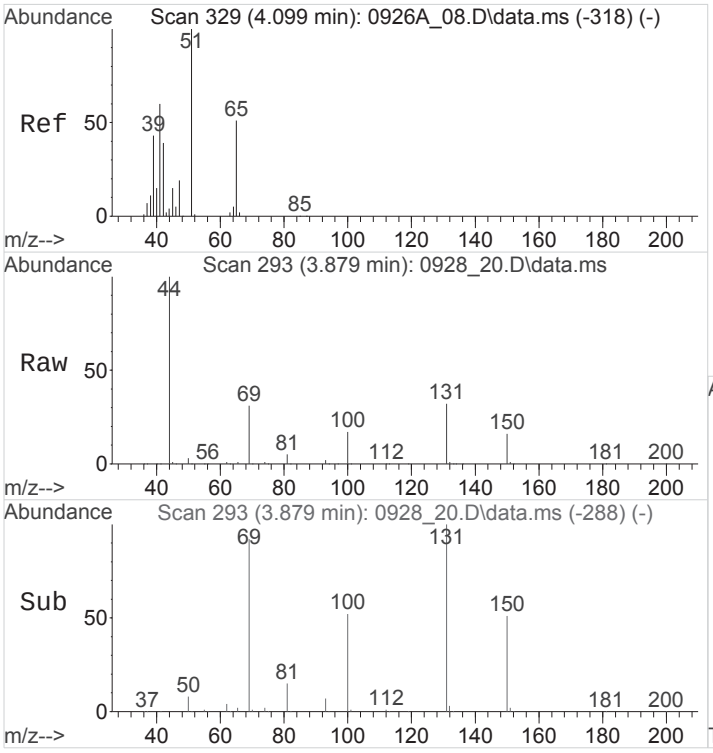


#2
Propene
Concen: 8.9790100 ppbv
RT: 4.085 min Scan# 327
Delta R.T. -0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 41 Resp: 875178

Ion	Ratio	Lower	Upper
41	100		
39	76.7	56.5	84.7
42	61.4	52.2	78.4

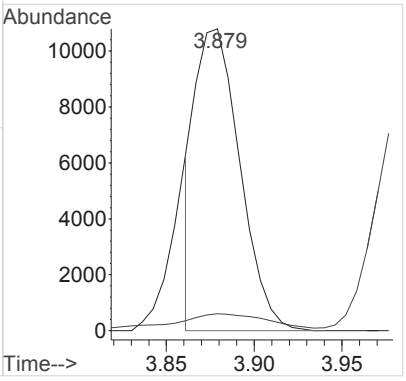


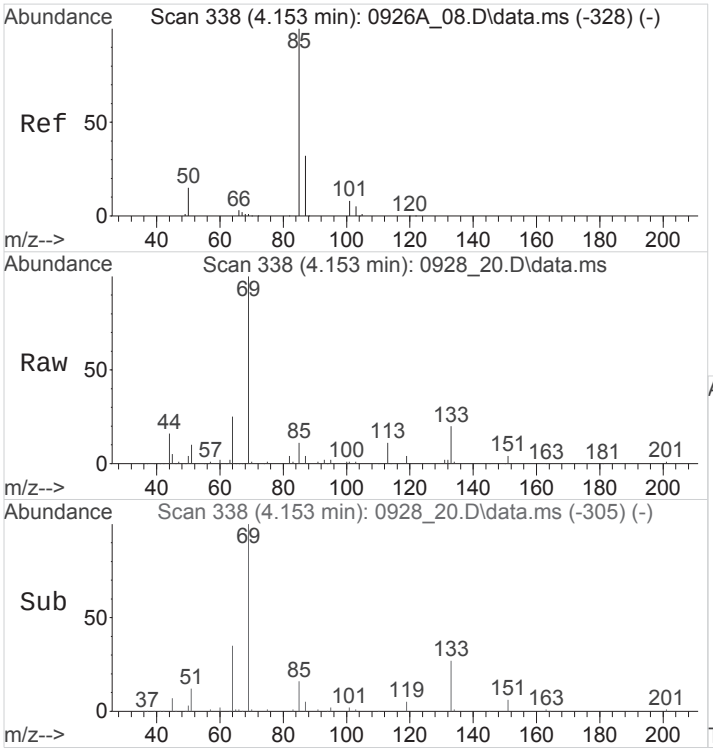


#3
1,1-DIFLUOROETHANE
Concen: 3.5245688 ppbv
RT: 3.879 min Scan# 293
Delta R.T. -0.220 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 65 Resp: 218614

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

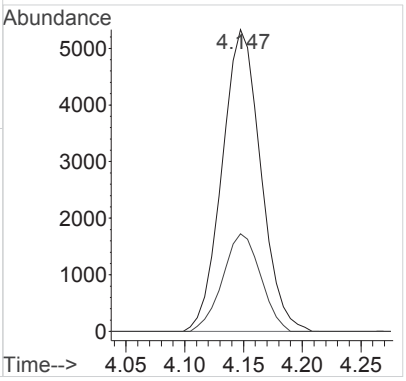


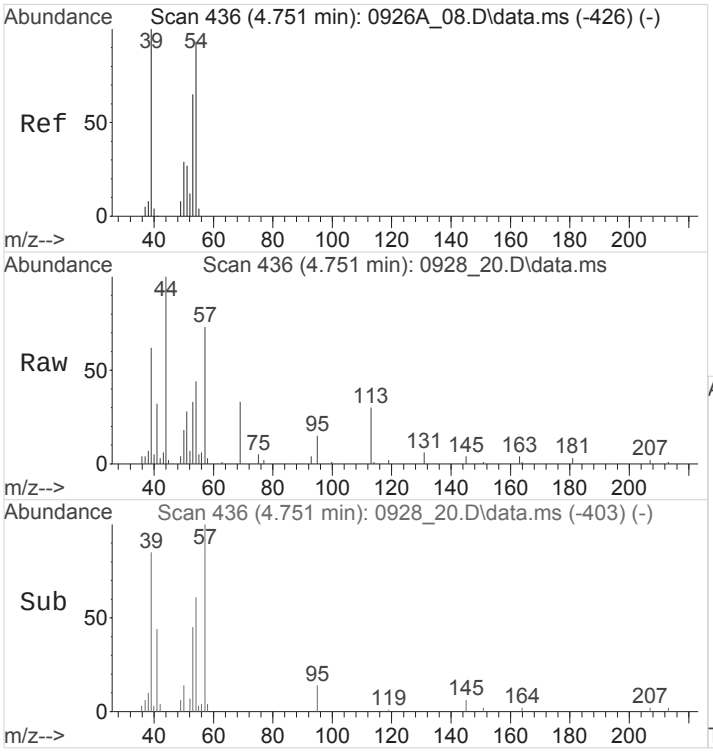


#4
Dichlorodifluoromethane
Concen: 0.6523133 ppbv
RT: 4.151 min Scan# 338
Delta R.T. -0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 85 Resp: 122213

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.8	38.6

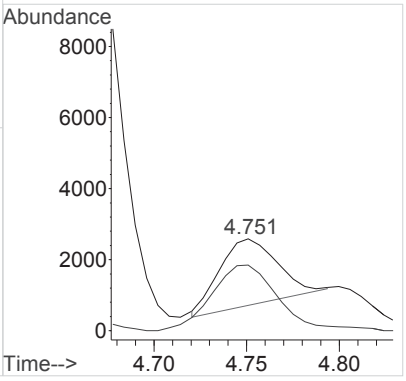


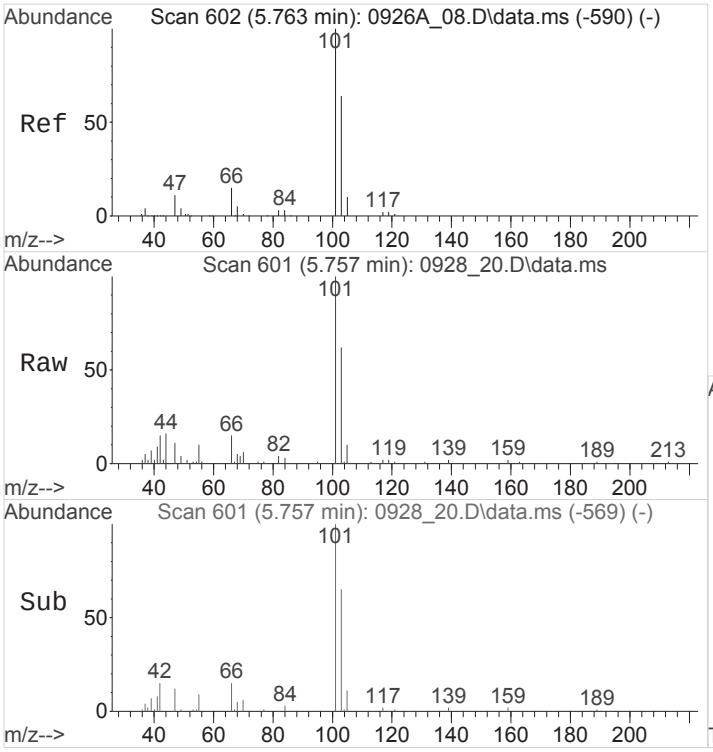


#9
1,3-Butadiene
Concen: 0.4194704 ppbv
RT: 4.753 min Scan# 436
Delta R.T. 0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 39 Resp: 37601

Ion	Ratio	Lower	Upper
39	100		
54	123.0	73.4	110.0#

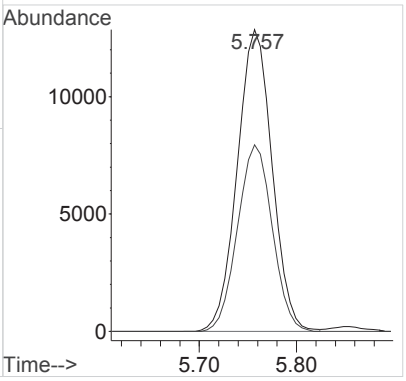


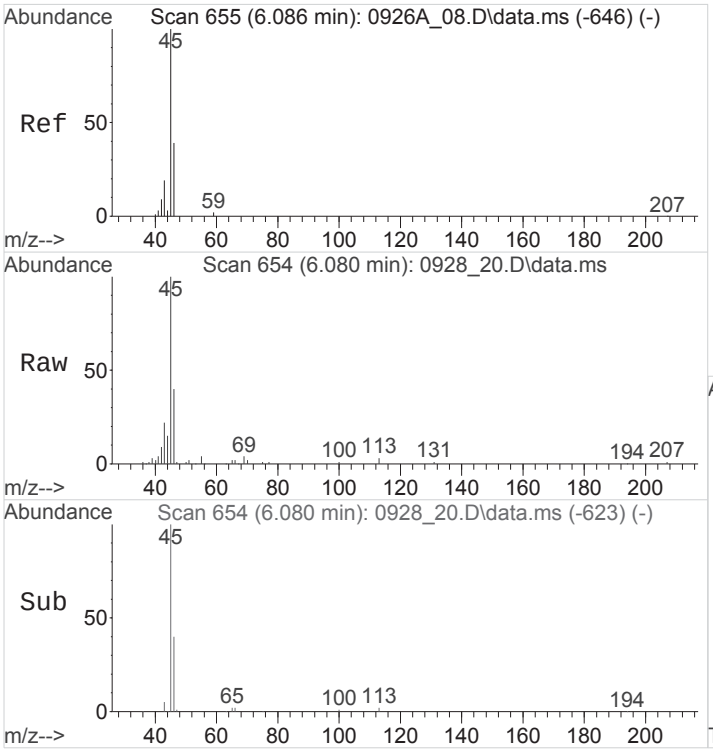


#13
Trichlorofluoromethane
Concen: 1.7728952 ppbv
RT: 5.760 min Scan# 601
Delta R.T. -0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:101 Resp: 320607

Ion	Ratio	Lower	Upper
101	100		
103	61.6	51.7	77.5

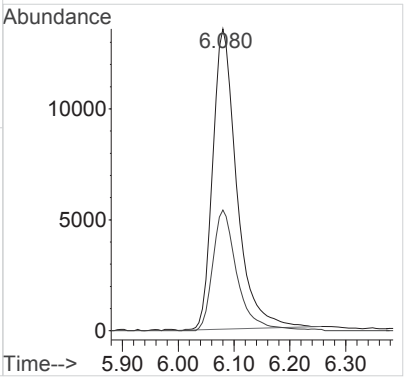


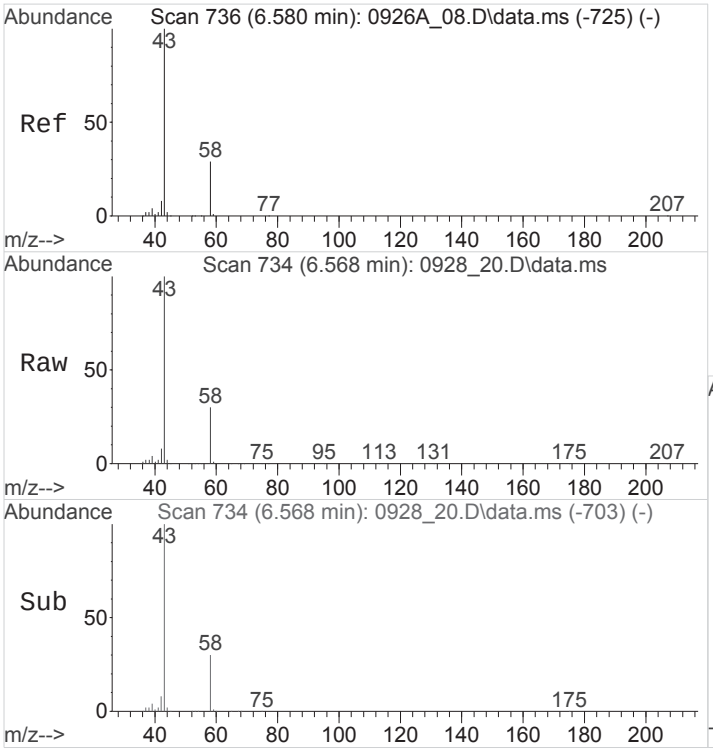


#14
Ethanol
Concen: 24.8012762 ppbv
RT: 6.082 min Scan# 654
Delta R.T. -0.006 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 45 Resp: 405080

Ion	Ratio	Lower	Upper
45	100		
46	39.7	33.0	49.4

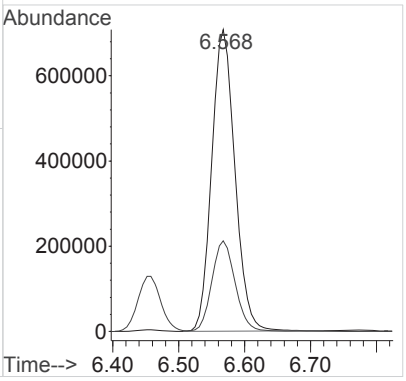


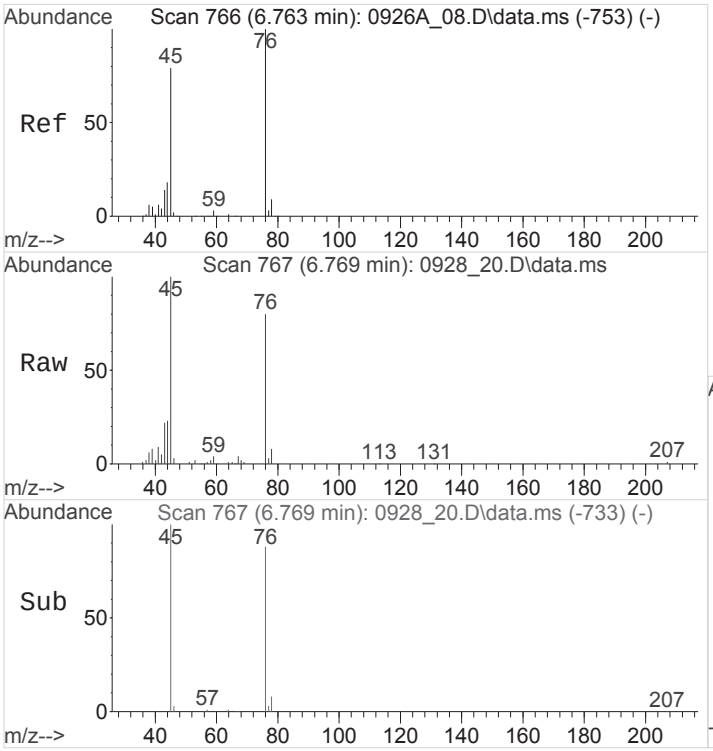


#17
Acetone
Concen: 59.3894868 ppbv
RT: 6.569 min Scan# 734
Delta R.T. -0.010 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 43 Resp:17314057

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.1	34.7

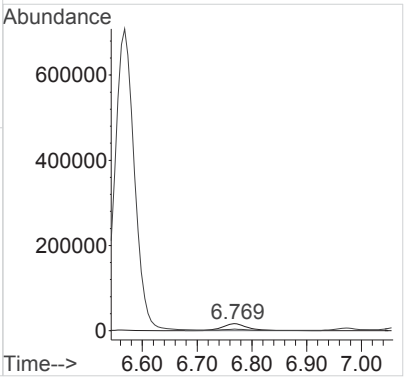


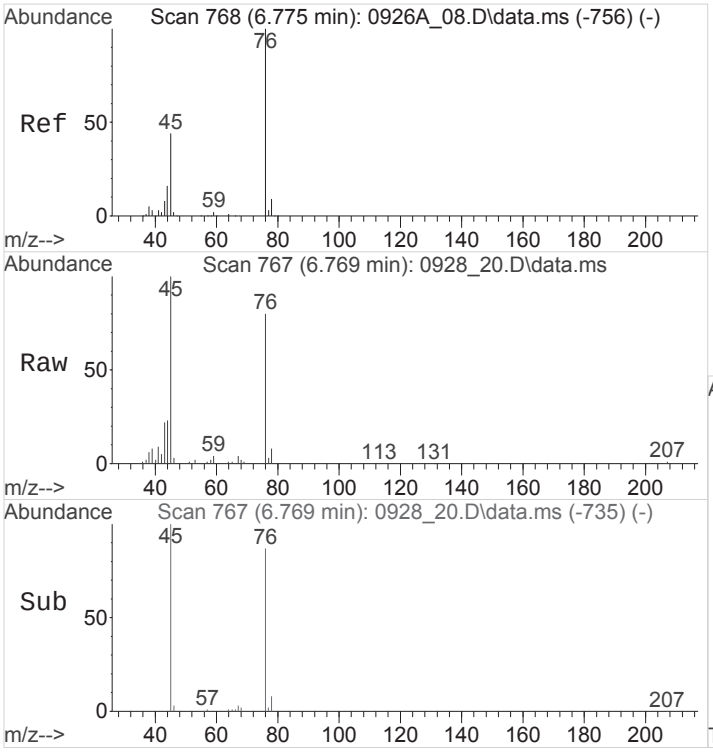


#18
2-Propanol
Concen: 2.6499961 ppbv
RT: 6.770 min Scan# 767
Delta R.T. 0.010 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 45 Resp: 521828

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

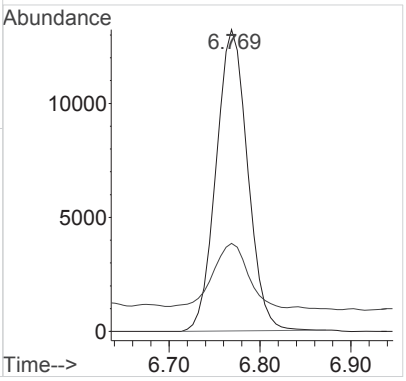


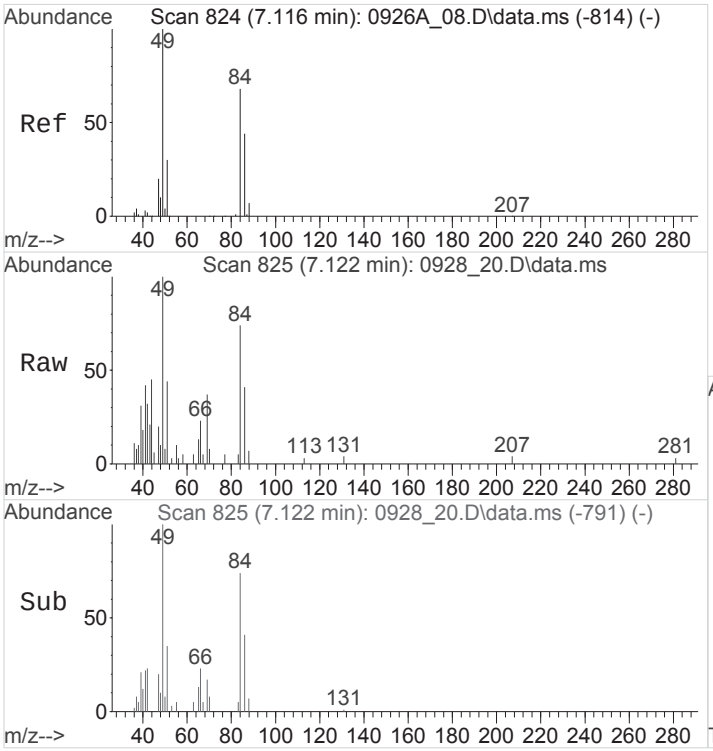


#19
Carbon Disulfide
Concen: 1.2573610 ppbv
RT: 6.771 min Scan# 767
Delta R.T. -0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 76 Resp: 317627

Ion	Ratio	Lower	Upper
76	100		
44	15.3	14.2	21.2

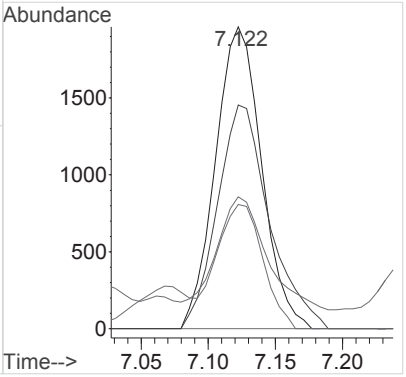


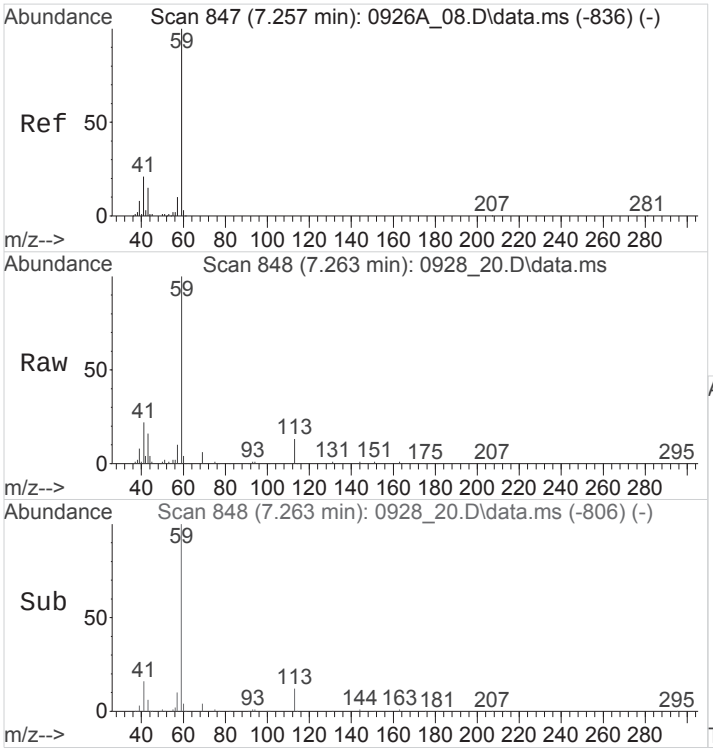


#21
Methylene Chloride
Concen: 0.3916559 ppbv
RT: 7.125 min Scan# 825
Delta R.T. 0.009 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 49 Resp: 46905

Ion	Ratio	Lower	Upper
49	100		
84	83.2	54.2	81.2#
86	0.0	35.1	52.7#
51	0.0	24.5	36.7#

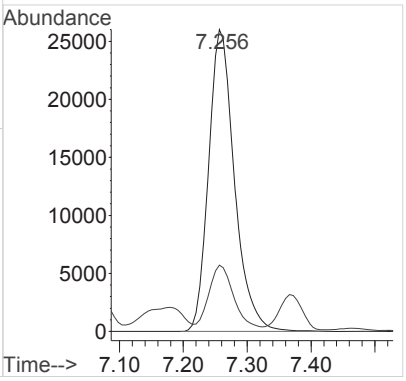


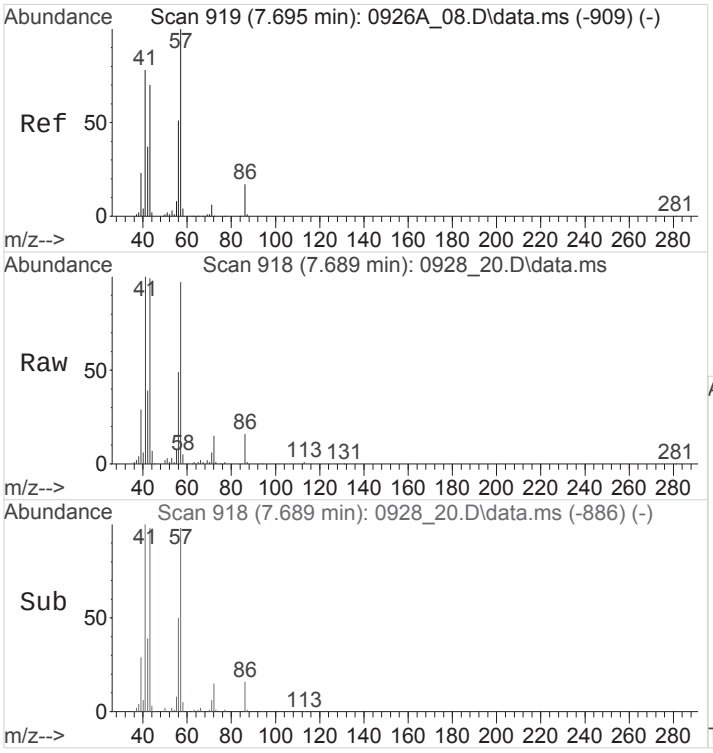


#22
TERT-BUTYL ALCOHOL
Concen: 3.3481904 ppbv
RT: 7.260 min Scan# 848
Delta R.T. 0.005 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 59 Resp: 731580

Ion	Ratio	Lower	Upper
59	100		
41	17.7	16.5	24.7

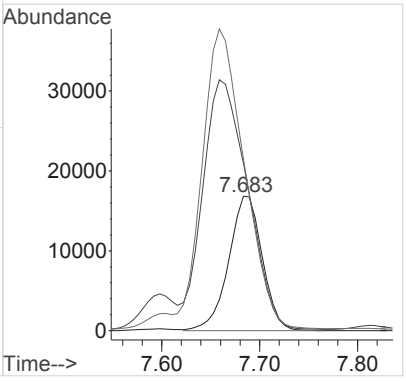


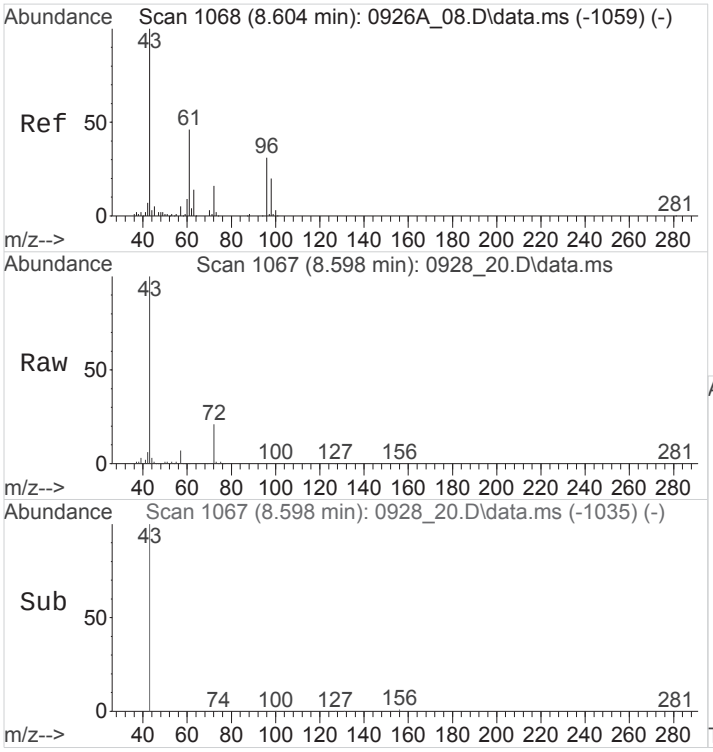


#25
n-Hexane
Concen: 2.6179709 ppbv
RT: 7.689 min Scan# 918
Delta R.T. -0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 57 Resp: 403433

Ion	Ratio	Lower	Upper
57	100		
41	247.8	63.2	94.8#
43	286.1	56.0	84.0#

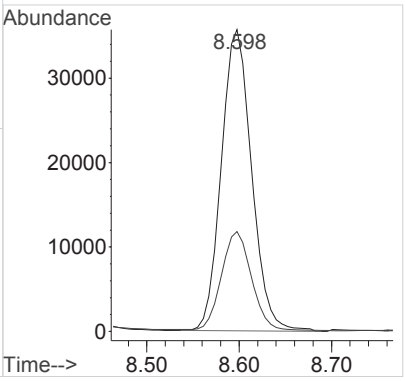


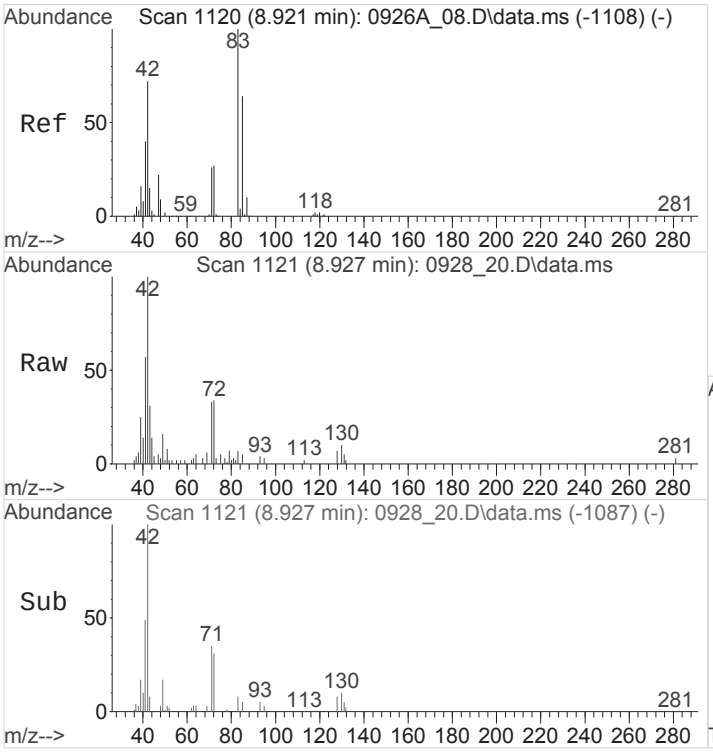


#29
2-Butanone (MEK)
Concen: 18.0131705 ppbv
RT: 8.599 min Scan# 1067
Delta R.T. -0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 72 Resp: 813316

Ion	Ratio	Lower	Upper
72	100		
57	31.9	25.6	38.4

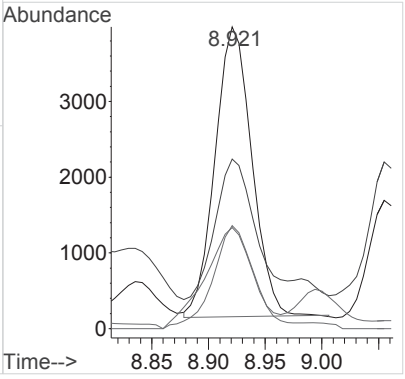


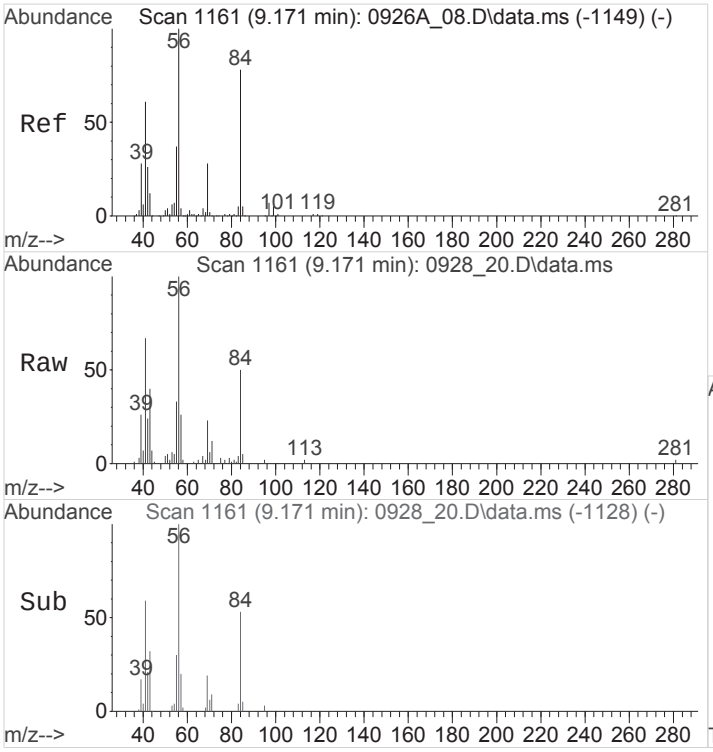


#31
Tetrahydrofuran
Concen: 0.6768737 ppbv
RT: 8.924 min Scan# 1121
Delta R.T. 0.005 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 42 Resp: 86587

Ion	Ratio	Lower	Upper
42	100		
41	0.0	44.2	66.4#
72	40.1	29.6	44.4
71	45.0	28.2	42.2#

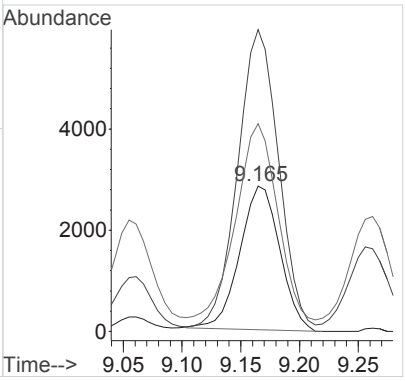


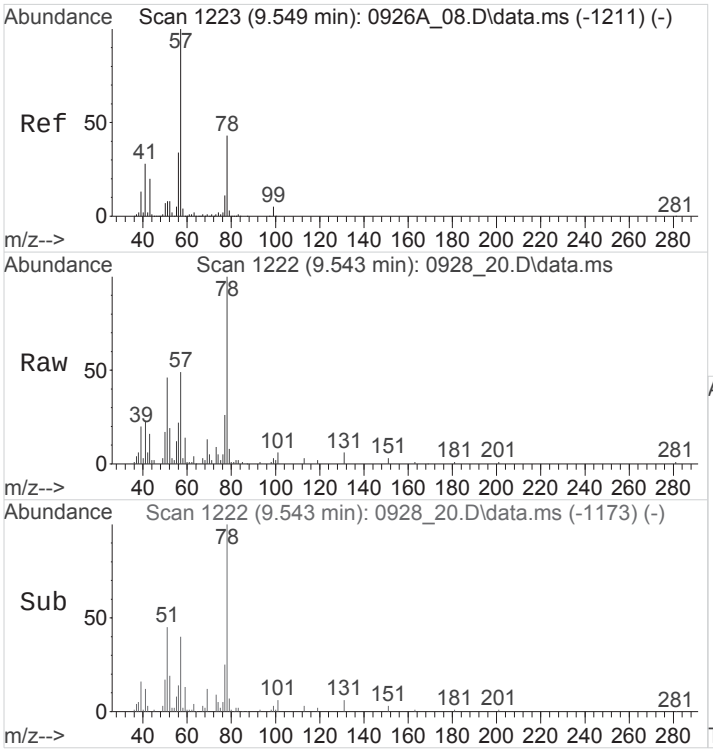


#33
Cyclohexane
Concen: 0.5225553 ppbv
RT: 9.169 min Scan# 1161
Delta R.T. -0.003 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 84 Resp: 67604

Ion	Ratio	Lower	Upper
84	100		
56	206.0	101.4	152.0#
41	136.2	62.1	93.1#

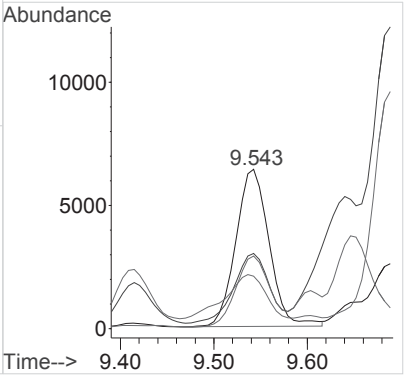


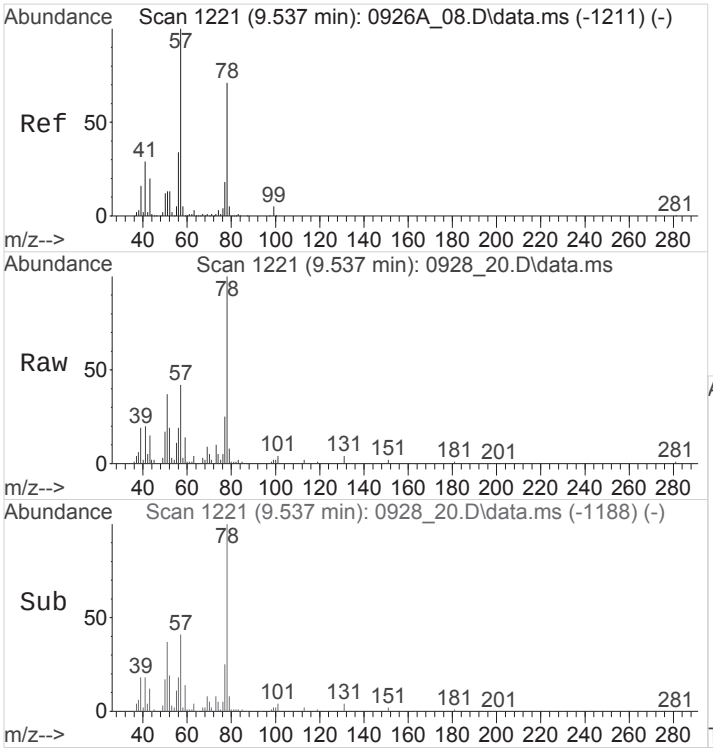


#36
2,2,4-Trimethylpentane
Concen: 0.3060923 ppbv
RT: 9.543 min Scan# 1222
Delta R.T. -0.003 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 57 Resp: 157627

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	44.8	27.2	40.8#

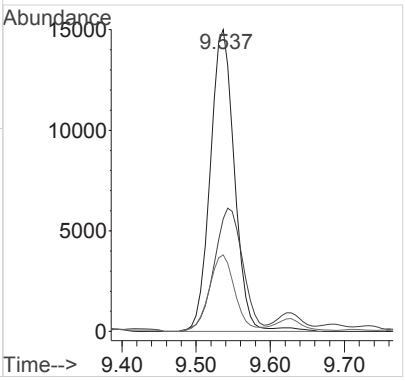


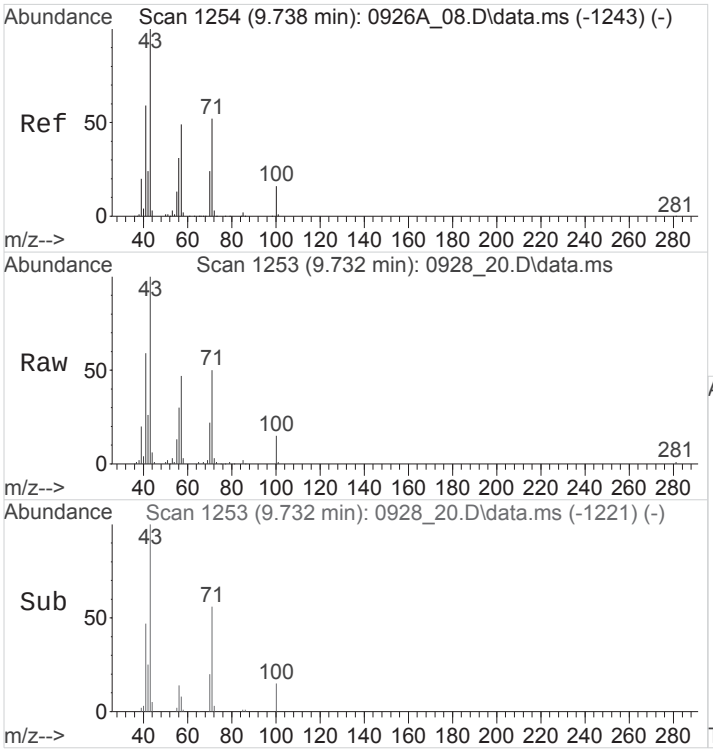


#38
Benzene
Concen: 1.1243500 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 78 Resp: 341760

Ion	Ratio	Lower	Upper
78	100		
51	45.0	15.4	23.0#
77	24.9	19.9	29.9

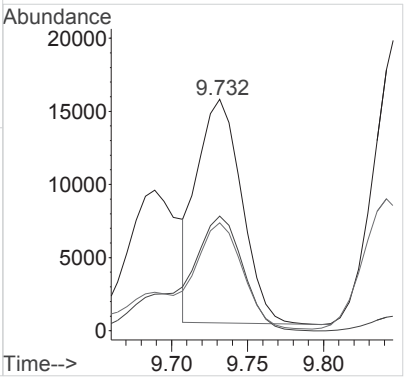


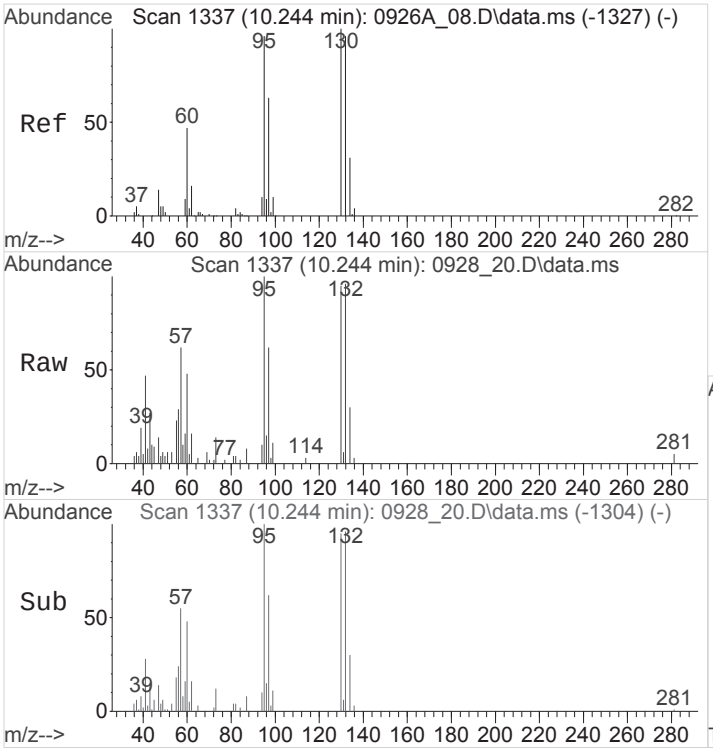


#40
Heptane
Concen: 1.6093999 ppbv
RT: 9.733 min Scan# 1253
Delta R.T. -0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 43 Resp: 337814

Ion	Ratio	Lower	Upper
43	100		
71	66.8	41.4	62.0#
57	64.6	39.3	58.9#

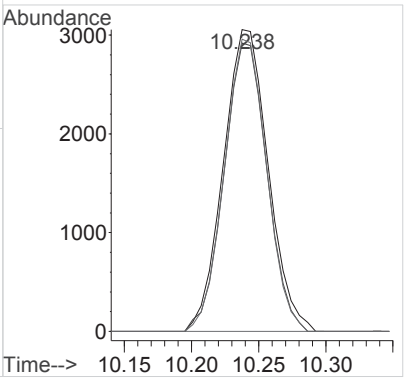


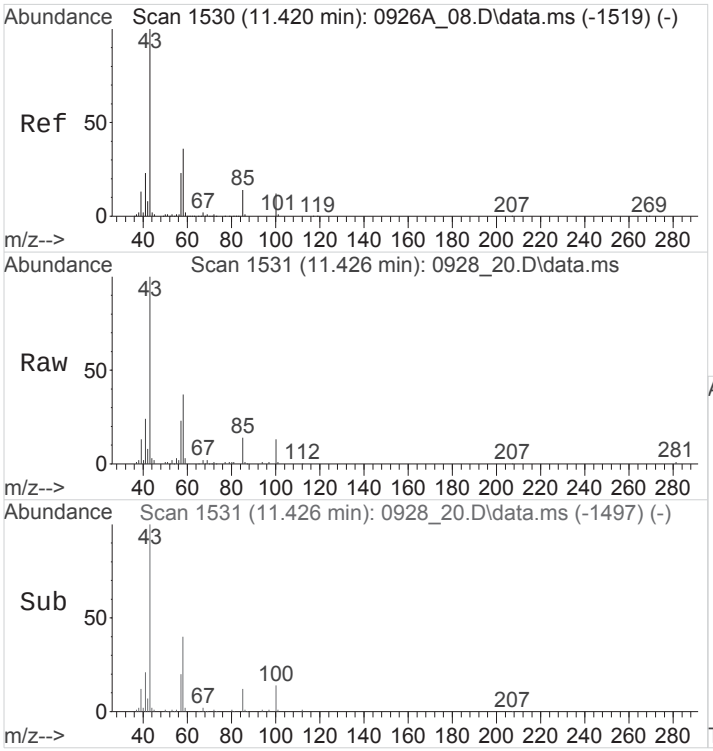


#41
Trichloroethene
Concen: 0.5993327 ppbv
RT: 10.243 min Scan# 1337
Delta R.T. 0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 95 Resp: 70964

Ion	Ratio	Lower	Upper
95	100		
130	91.3	81.6	122.4
132	91.2	77.8	116.6

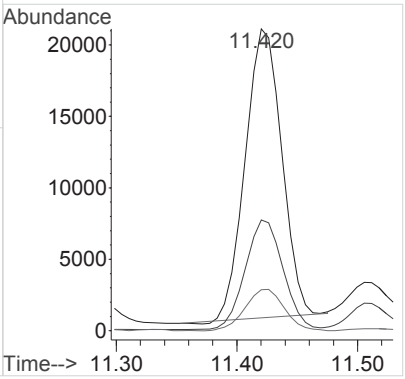


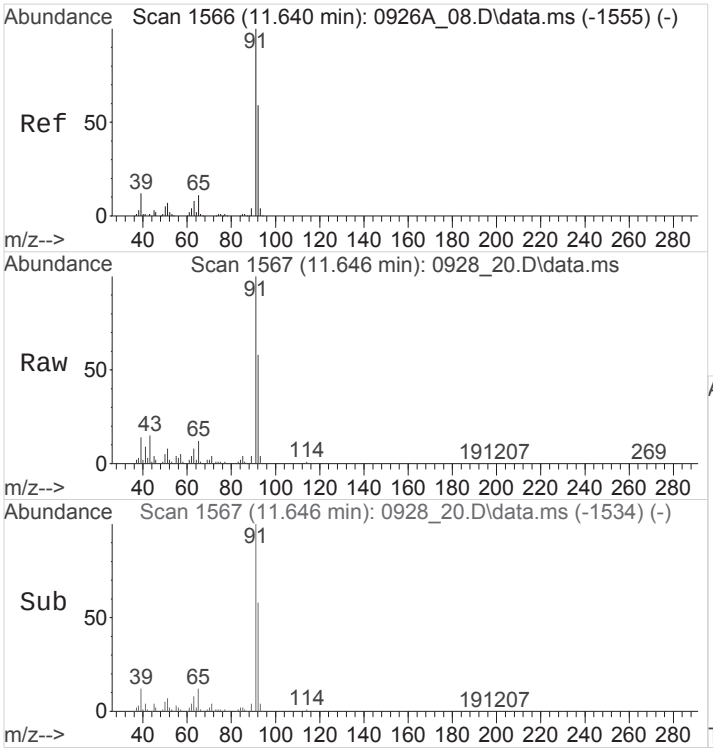


#49
4-Methyl-2-Pentanone (MIBK)
Concen: 1.5496335 ppbv
RT: 11.425 min Scan# 1531
Delta R.T. 0.003 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 43 Resp: 421129

Ion	Ratio	Lower	Upper
43	100		
58	38.6	29.0	43.6
85	15.5	11.0	16.6

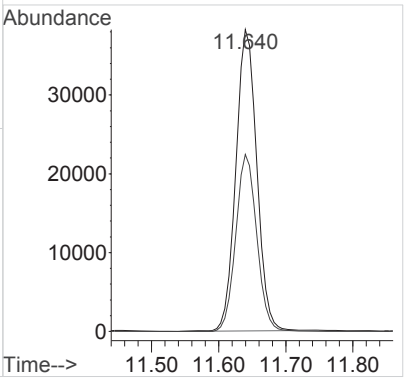


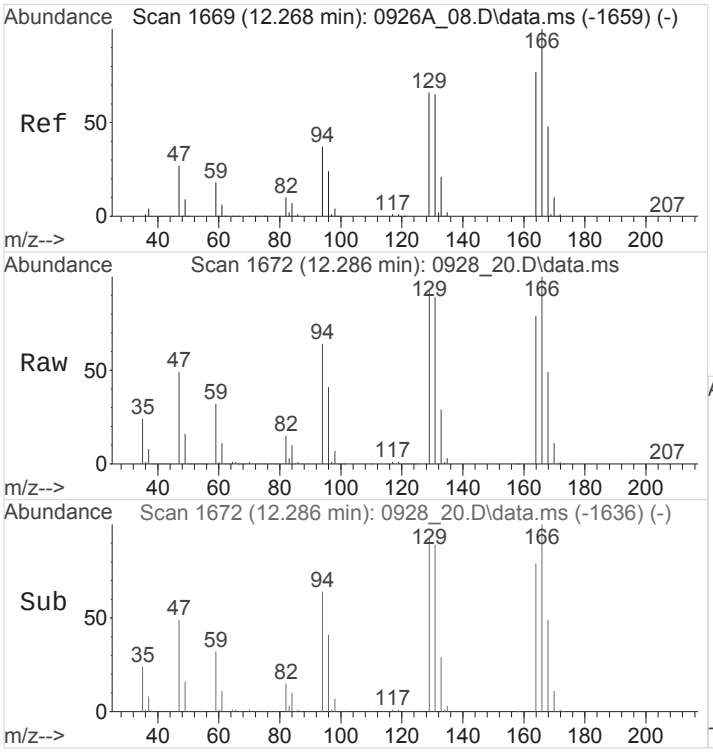


#50
Toluene
Concen: 2.2840634 ppbv
RT: 11.644 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 91 Resp: 828098

Ion	Ratio	Lower	Upper
91	100		
92	58.5	46.6	70.0

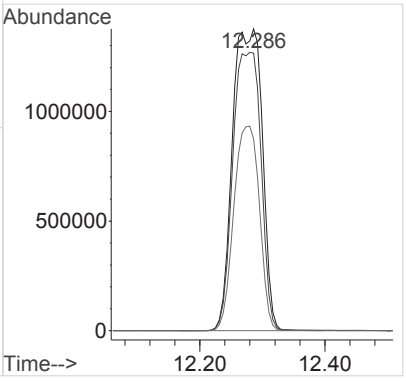


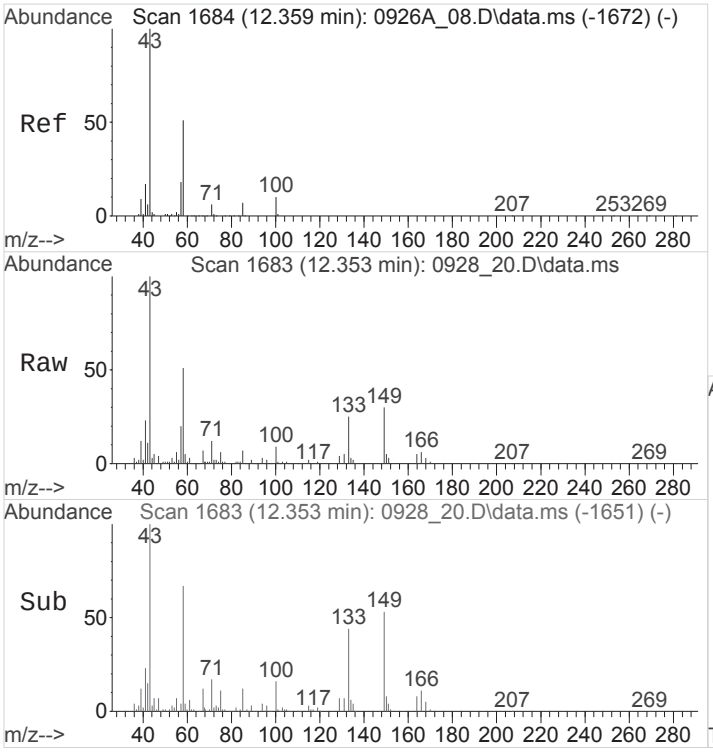


#53
Tetrachloroethene
Concen: 297.9743457 ppbv m
RT: 12.286 min Scan# 1672
Delta R.T. 0.019 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:166 Resp:45587912

Ion	Ratio	Lower	Upper
166	100		
129	0.0	55.0	82.6#
94	0.0	31.3	46.9#

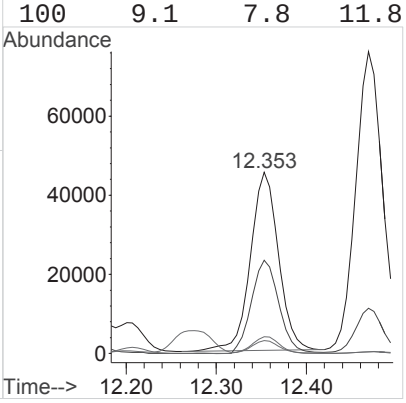


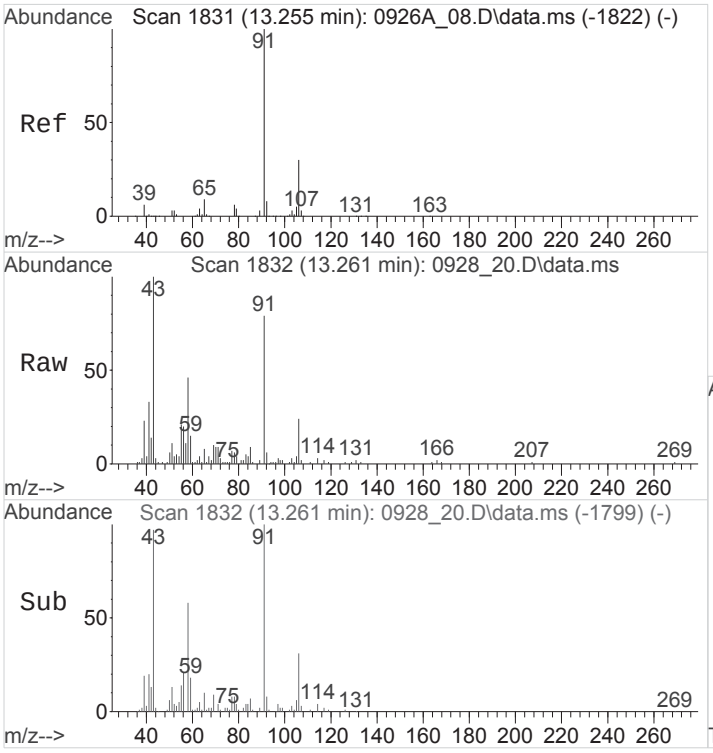


#54
Methyl Butyl Ketone
Concen: 4.6862263 ppbv
RT: 12.356 min Scan# 1683
Delta R.T. -0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 43 Resp: 972380

Ion	Ratio	Lower	Upper
43	100		
58	50.8	41.0	61.4
85	6.6	5.6	8.4
100	9.1	7.8	11.8

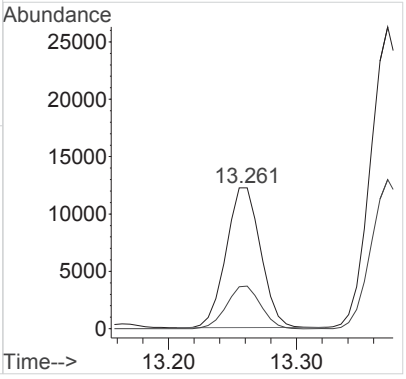


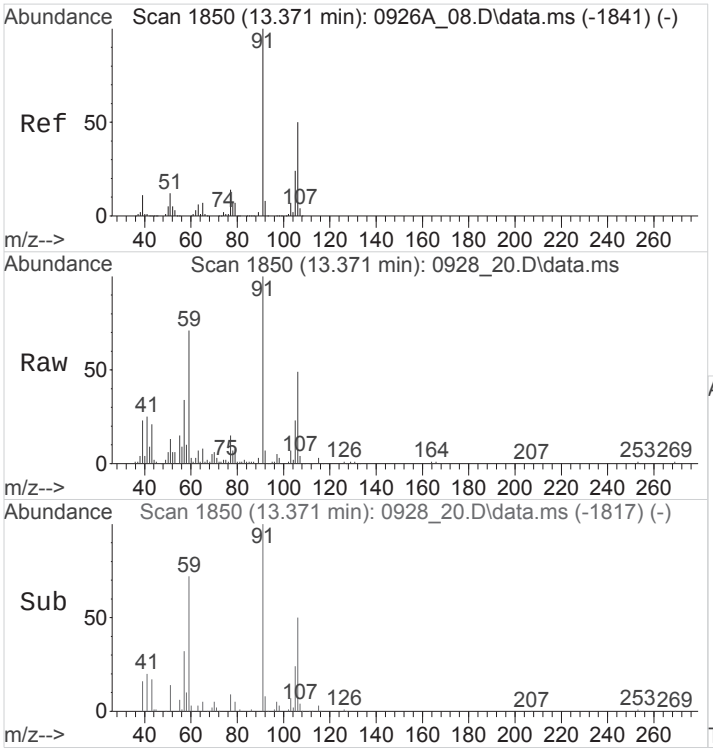


#59
Ethylbenzene
Concen: 0.5969256 ppbv
RT: 13.261 min Scan# 1832
Delta R.T. 0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 91 Resp: 228159

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

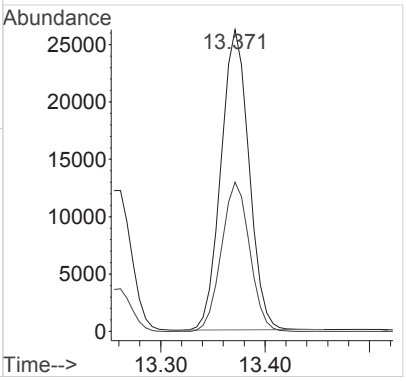


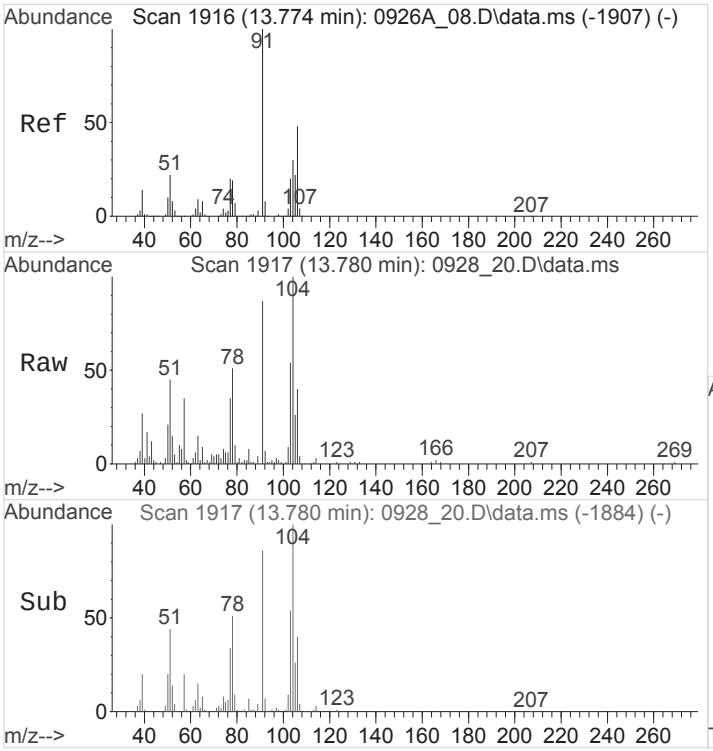


#60
M&P-Xylene
Concen: 1.6873595 ppbv
RT: 13.374 min Scan# 1850
Delta R.T. 0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 91 Resp: 487413

Ion	Ratio	Lower	Upper
91	100		
106	50.0	39.8	59.6

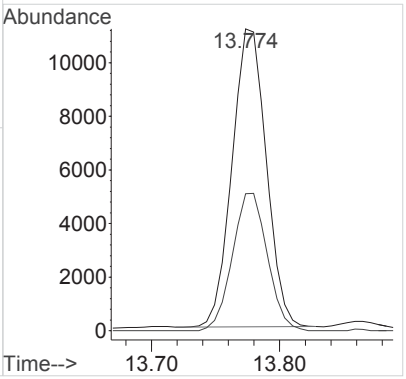


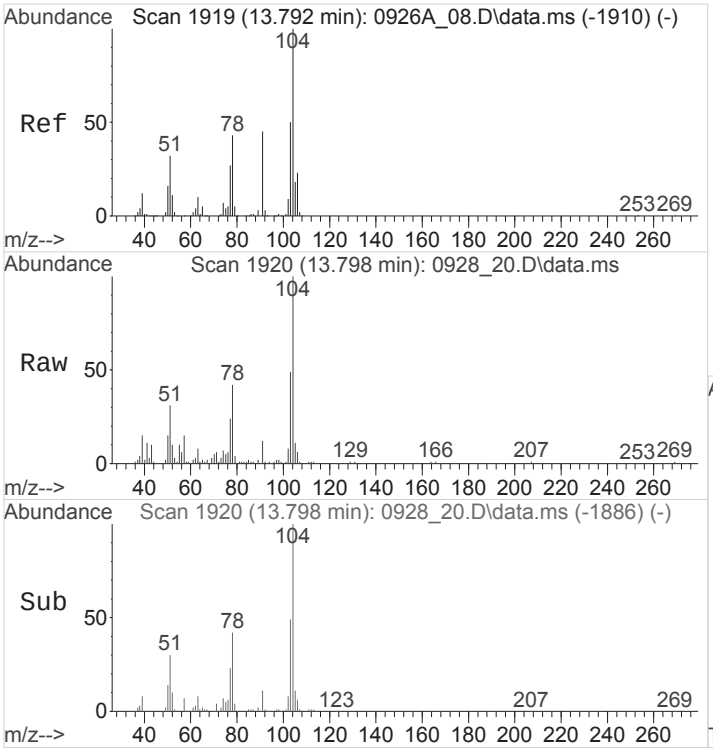


#61
O-Xylene
Concen: 0.6998791 ppbv
RT: 13.779 min Scan# 1917
Delta R.T. 0.002 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 91 Resp: 205853

Ion	Ratio	Lower	Upper
91	100		
106	47.1	38.2	57.2

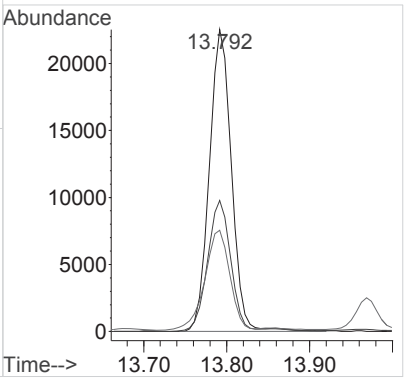


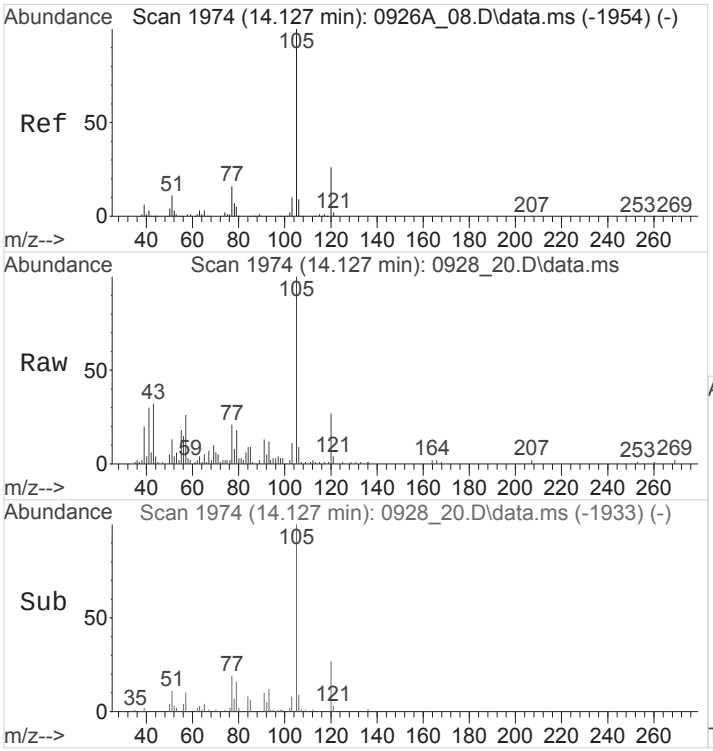


#62
Styrene
Concen: 1.9742465 ppbv
RT: 13.795 min Scan# 1920
Delta R.T. 0.003 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:104 Resp: 417679

Ion	Ratio	Lower	Upper
104	100		
78	44.0	39.0	58.6
51	36.6	35.2	52.8

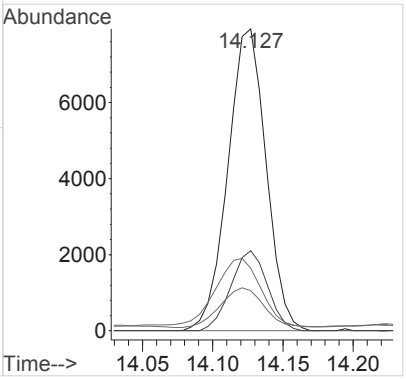


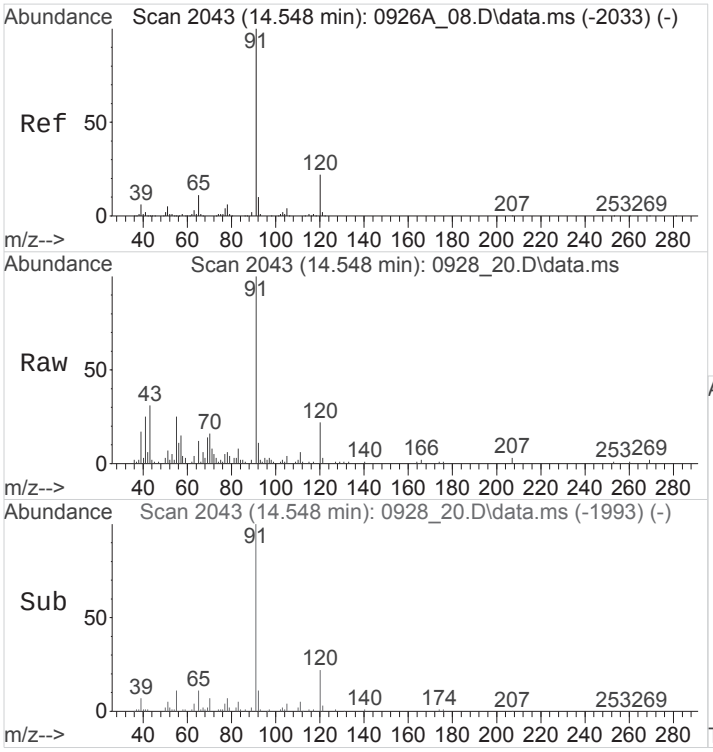


#64
Isopropylbenzene
Concen: 0.3718020 ppbv
RT: 14.127 min Scan# 1974
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 150301

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.7	31.1
77	27.2	13.0	19.4#
51	0.0	9.4	14.0#

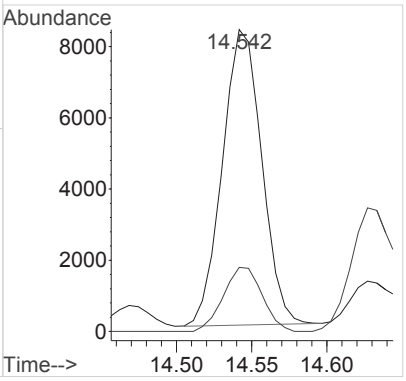


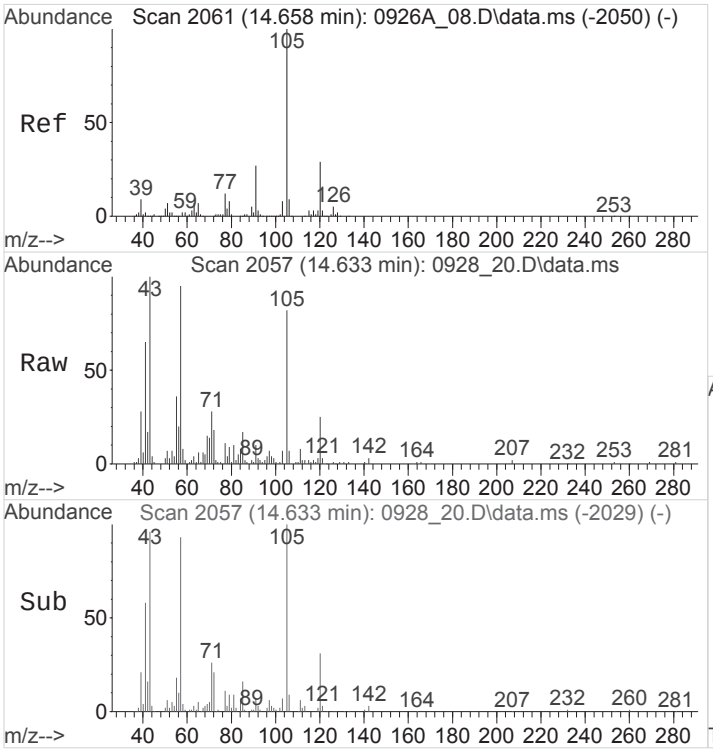


#66
n-Propylbenzene
Concen: 0.3146318 ppbv
RT: 14.546 min Scan# 2043
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion: 91 Resp: 150932

Ion	Ratio	Lower	Upper
91	100		
120	57.1	17.1	25.7#

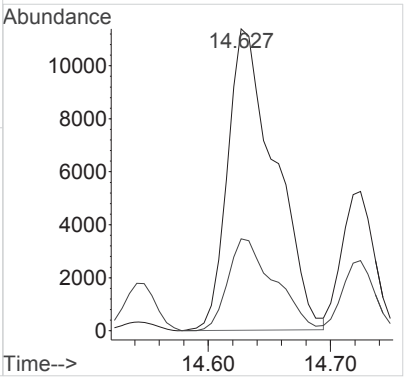


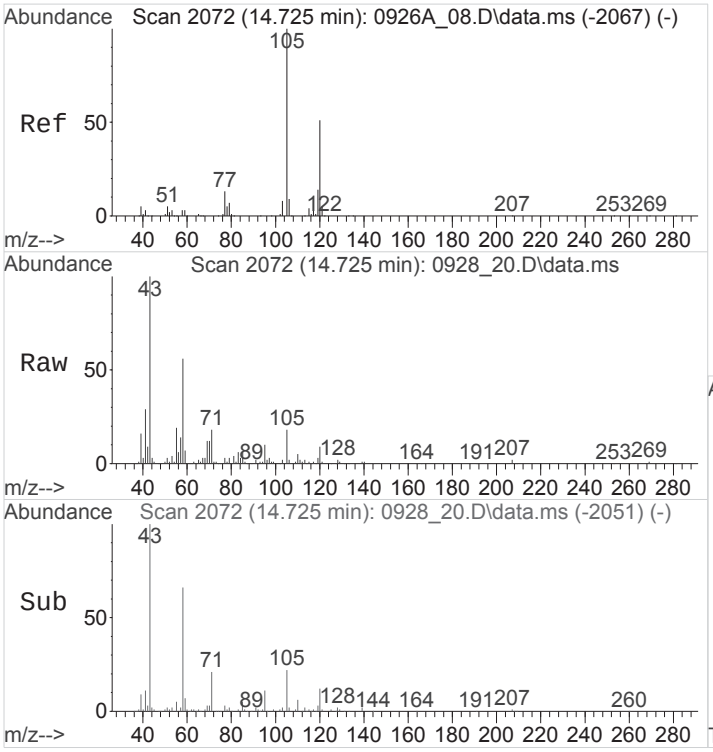


#67
4-Ethyltoluene
Concen: 0.7783978 ppbv
RT: 14.632 min Scan# 2057
Delta R.T. -0.028 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 304456

Ion	Ratio	Lower	Upper
105	100		
120	29.6	23.2	34.8

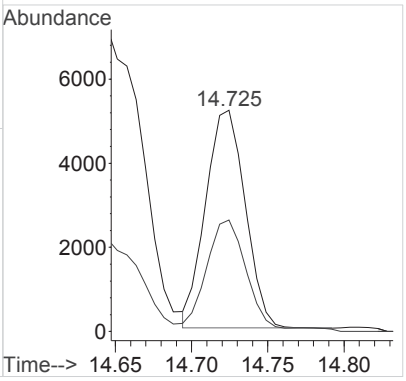


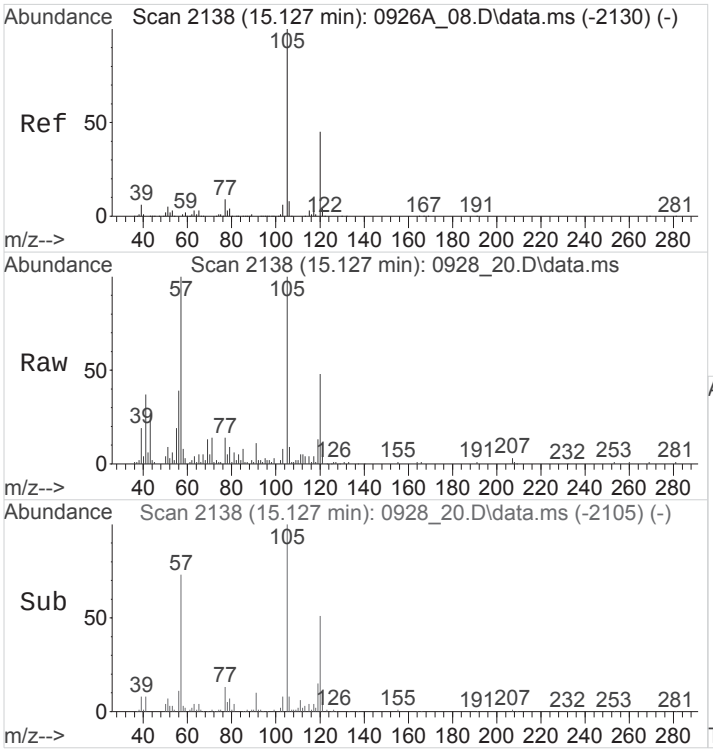


#70
1,3,5-Trimethylbenzene
Concen: 0.2884170 ppbv
RT: 14.725 min Scan# 2072
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 95192

Ion	Ratio	Lower	Upper
105	100		
120	45.3	40.2	60.4

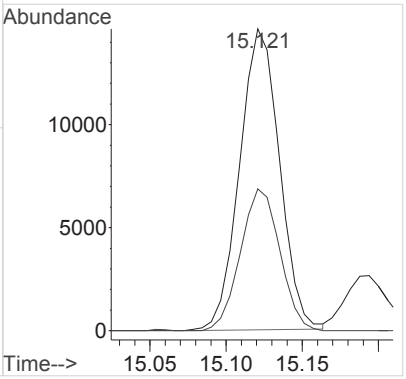


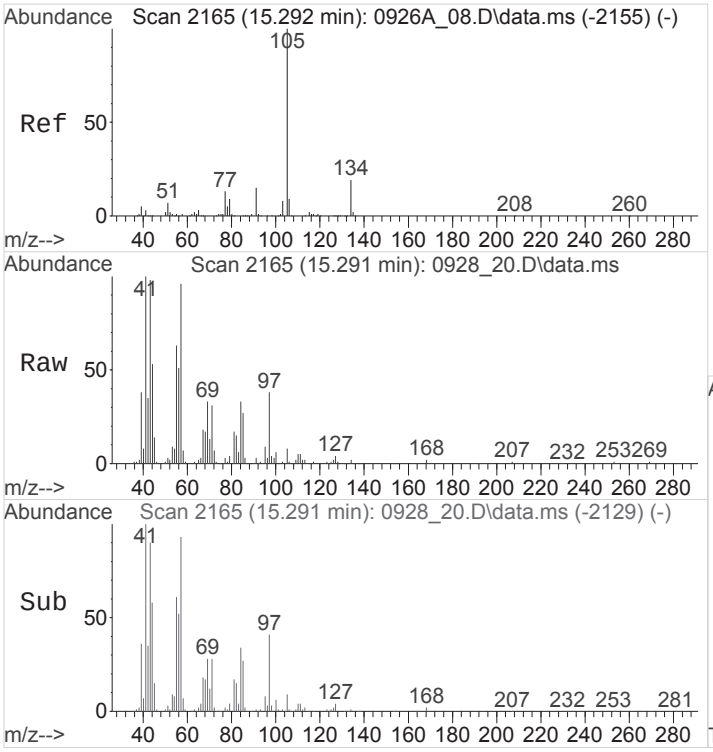


#72
1,2,4-Trimethylbenzene
Concen: 0.8134378 ppbv
RT: 15.125 min Scan# 2138
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 264963

Ion	Ratio	Lower	Upper
105	100		
120	46.6	37.5	56.3

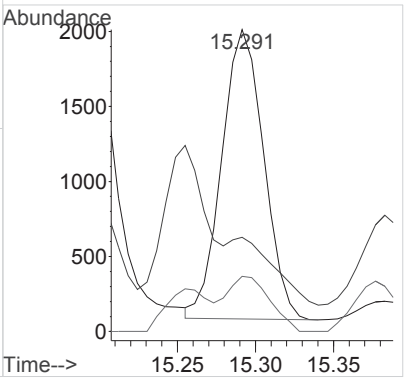


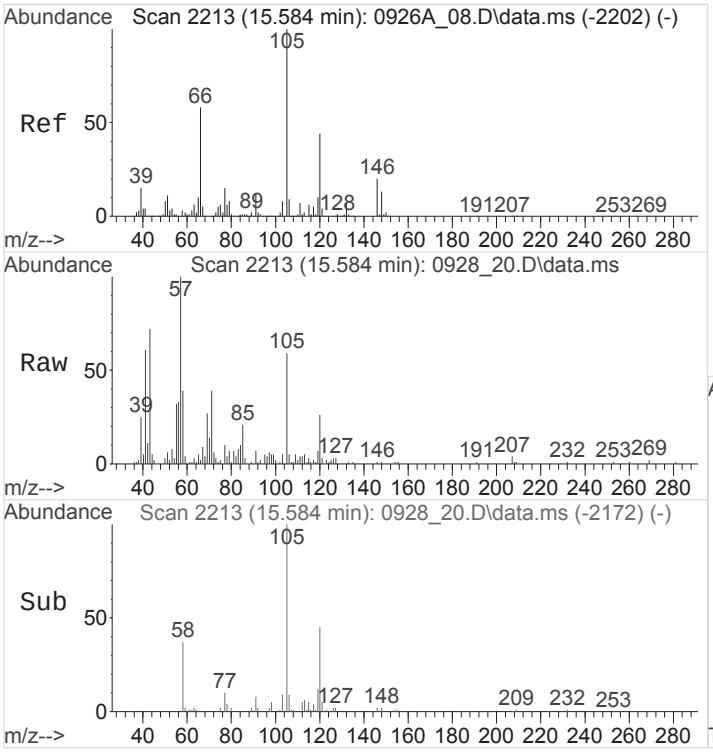


#73
sec-Butylbenzene
Concen: 0.0721283 ppbv
RT: 15.294 min Scan# 2165
Delta R.T. -0.000 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 36361

Ion	Ratio	Lower	Upper
105	100		
91	0.0	12.2	18.2#
134	0.0	15.1	22.7#

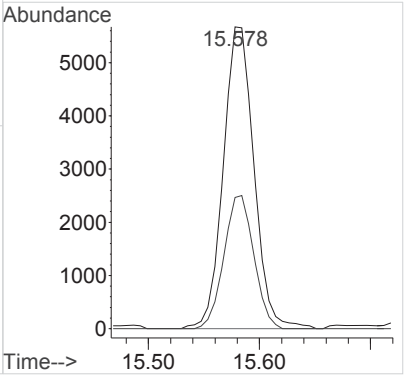


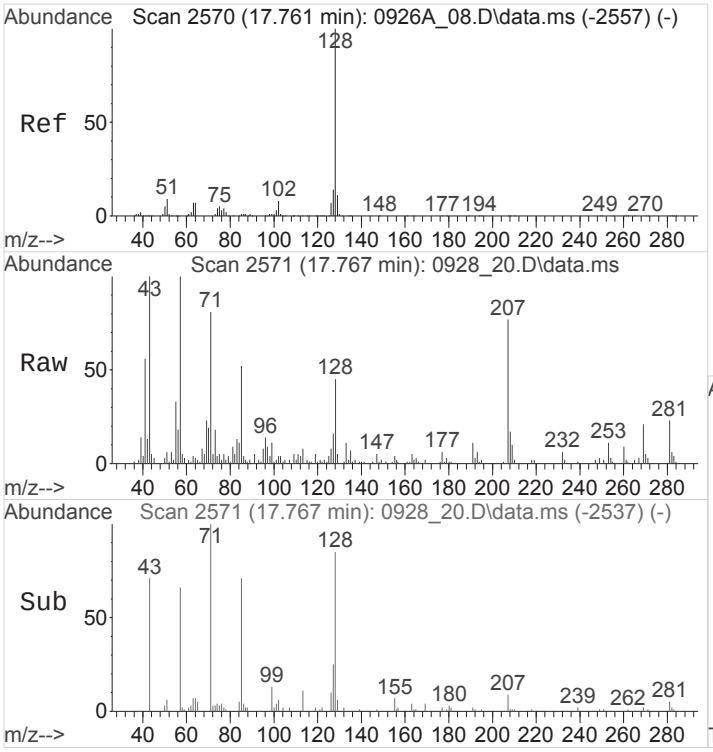


#76
1,2,3-TRIMETHYLBENZENE
Concen: 0.3300854 ppbv
RT: 15.583 min Scan# 2213
Delta R.T. 0.001 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:105 Resp: 109096

Ion	Ratio	Lower	Upper
105	100		
120	42.8	34.6	52.0

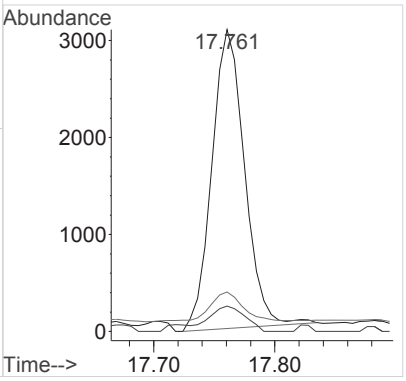


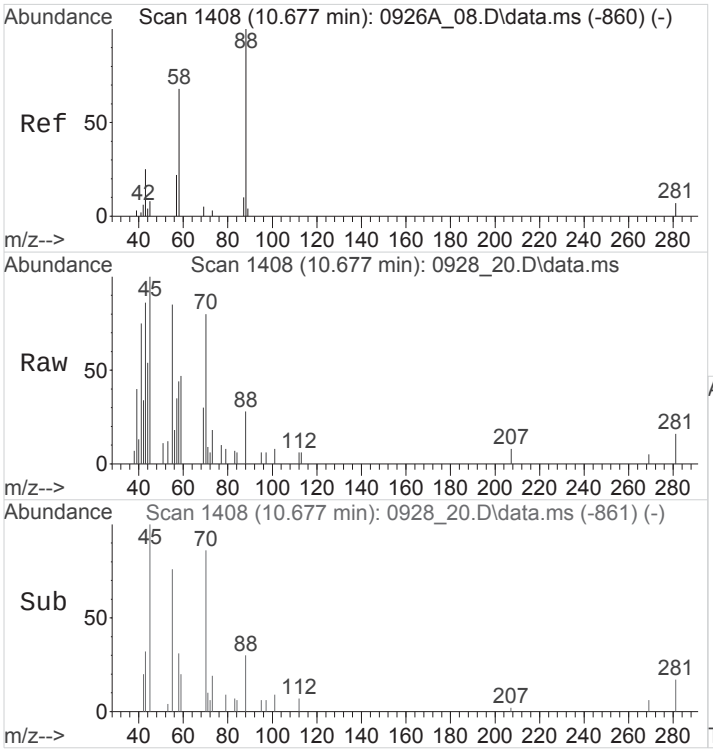


#83
Naphthalene
Concen: 0.3338227 ppbv
RT: 17.764 min Scan# 2571
Delta R.T. 0.004 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

Tgt Ion:128 Resp: 58001

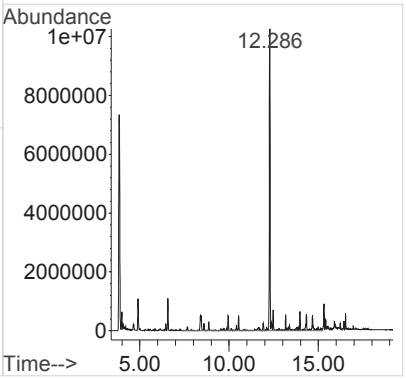
Ion	Ratio	Lower	Upper
128	100		
102	0.0	6.1	9.1#
51	0.0	7.2	10.8#





#84
TPH (GC/MS) Low Fraction
Concen: 775.7956789 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0928_20.D
Acq: 28 Sep 2016 9:16 pm

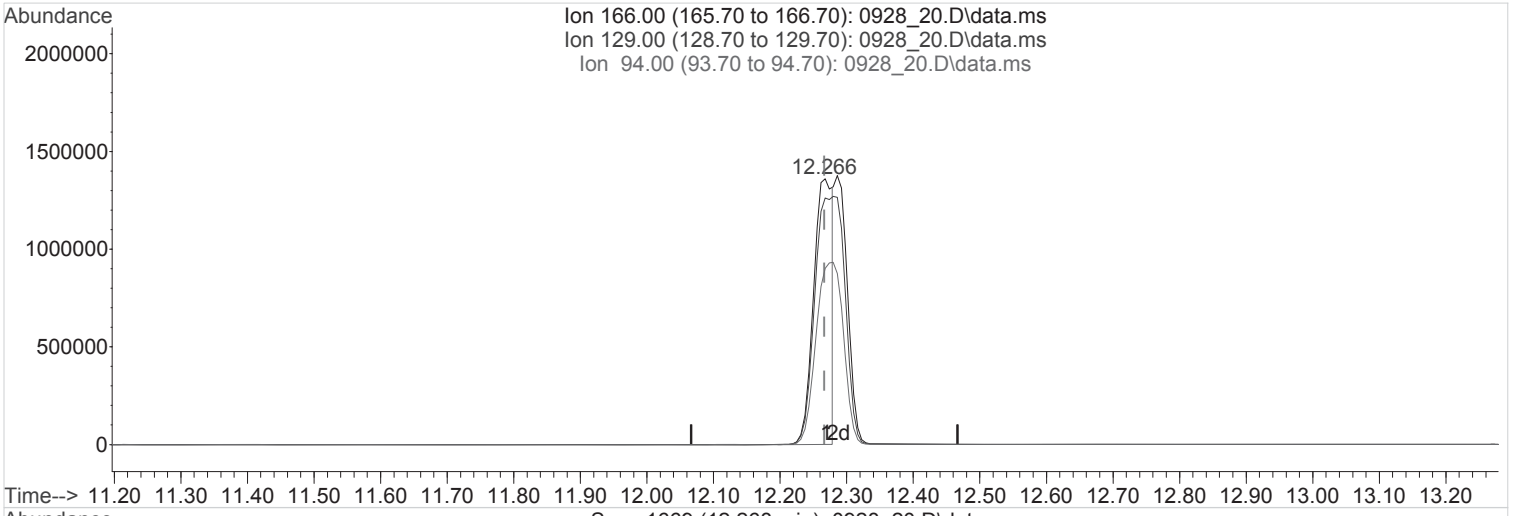
Tgt Ion:TIC Resp:527109181

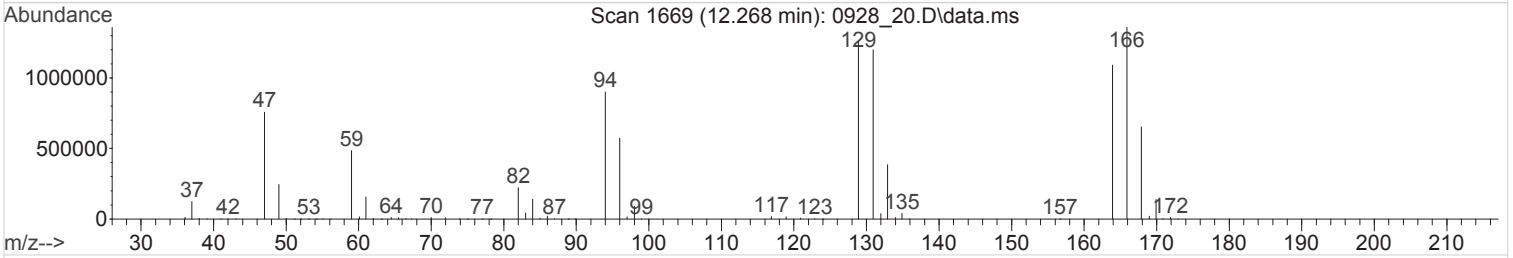


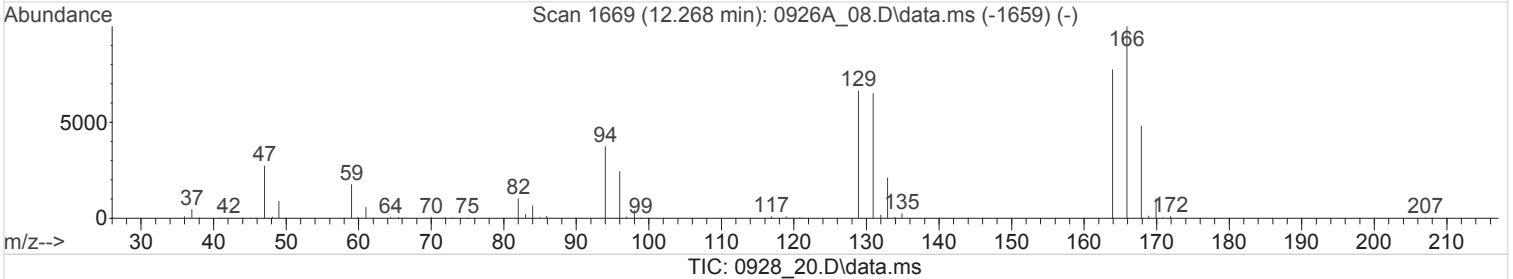
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_20.D
Acq On : 28 Sep 2016 9:16 pm
Operator : 564
Sample : L861822-16 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:41 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration







TIC: 0928_20.D\data.ms

(53) Tetrachloroethene (T,M)

12.269min (+0.002) 74.0728447 ppbv E

Qvalue = 23

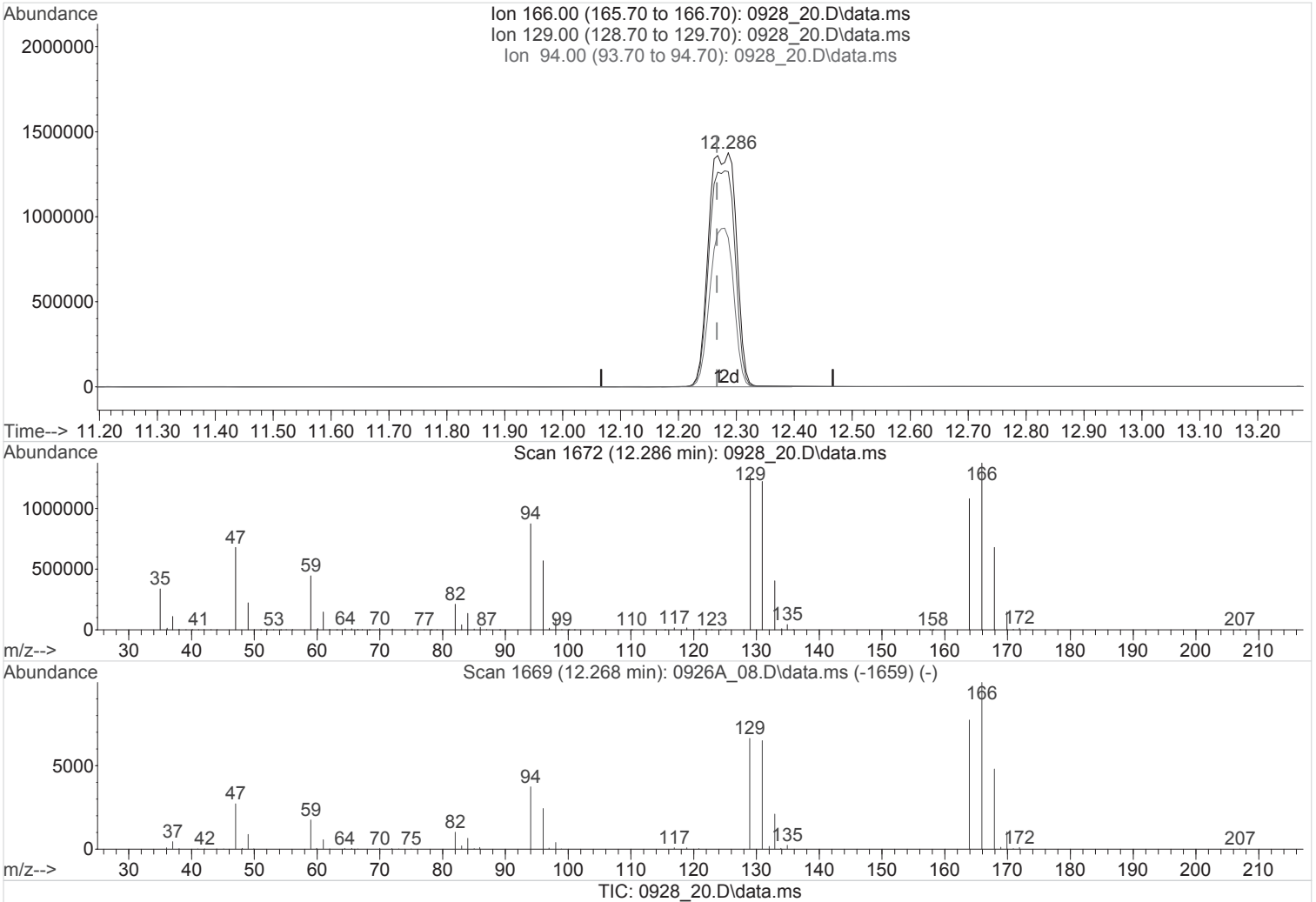
response 22665215 Limit = 0.0994000

Ion	Exp%	Act%
166.00	100	100
129.00	68.80	0.00#
94.00	39.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092816\
Data File : 0928_20.D
Acq On : 28 Sep 2016 9:16 pm
Operator : 564
Sample : L861822-16 2x WG911990 TO-15
Misc : BV032517K1389
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 07:39:41 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



TIC: 0928_20.D\data.ms

(53) Tetrachloroethene (T,M)

12.286min (+0.019) 148.9871729 ppbv m E

response 45587912 Limit = 0.0994000

Ion	Exp%	Act%
166.00	100	100
129.00	68.80	0.00#
94.00	39.10	0.00#
0.00	0.00	0.00

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 10/11/2016 3:22:21 PM
Run ID : 092916
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0929_01	ICV AMS 3.8 PPBV BV091816K1374	TOAIRMS2I26P					1	1	09/29/16 0723	"BV032517K1389"
2	0929_01T	ICV AMS 3.8 ppbv BV091816K1374	TOAIRMS2I26P						1	09/29/16 0723	
3	0929_02	LCS	TOAIRMS2I26P	WG912392	TO-15	AIR		1	1	09/29/16 0807	"BV032517K1389"
4	0929_03	LCSD	TOAIRMS2I26P	WG912392	TO-15	AIR		1	1	09/29/16 0852	"BV032517K1389"
5	0929_04	BLANK	TOAIRMS2I26P	WG912392	TO-15	AIR		1	1	09/29/16 0939	"BV032517K1389"
6	0929_05	IN HOUSE BLANK #680	TOAIRMS2I26P					1	1	09/29/16 1035	"BV032517K1389"
7	0929_06	IN HOUSE BLANK #557	TOAIRMS2I26P					1	1	09/29/16 1122	"BV032517K1389"
8	0929_07	IN HOUSE BLANK #498	TOAIRMS2I26P					1	1	09/29/16 1210	"BV032517K1389"
9	0929_08	L861824-01	TOAIRMS2I26P	WG912392	TO-15	AIR	IL	1	1	09/29/16 1258	"BV032517K1389"
10	0929_09	L861822-09	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	2	2	09/29/16 1344	"BV032517K1389"
11	0929_10	L861822-13	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	25	25	09/29/16 1429	"BV032517K1389"
12	0929_11	L861822-06	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	20	20	09/29/16 1513	"BV032517K1389"
13	0929_12	L861822-14	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	25	25	09/29/16 1557	"BV032517K1389"
14	0929_13	L861822-16	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	25	25	09/29/16 1641	"BV032517K1389"
15	0929_14	L861822-08	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	100	100	09/29/16 1724	"BV032517K1389"
16	0929_15	L861822-12	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	800	800	09/29/16 1806	"BV032517K1389"
17	0929_16	L861822-15	TOAIRMS2I26P	WG912392	TO-15	AIR	AL	80	80	09/29/16 1849	"BV032517K1389"
18	0929_17	L862562-01	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	2	2	09/29/16 1934	"BV032517K1389"
19	0929_18	L862562-02	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	2	2	09/29/16 2018	"BV032517K1389"
20	0929_19	L862562-03	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	2	2	09/29/16 2103	"BV032517K1389"
21	0929_20	L862562-04	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	2	2	09/29/16 2147	"BV032517K1389"
22	0929_21	L862377-01	TOAIRMS2I26P	WG912392	M18-MOD	AIR	CO	2	2	09/29/16 2231	"BV032517K1389"
23	0929_22	L862519-01	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	1	1	09/29/16 2319	"BV032517K1389"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 10/11/2016 3:22:21 PM
Run ID : 092916
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
24	0929_23	L862519-02	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	1	1	09/30/16 0008	"BV032517K1389"
25	0929_24	L862519-03	TOAIRMS2I26P	WG912392	TO-15	AIR	UT	1	1	09/30/16 0058	"BV032517K1389"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_01.D
Acq On : 29 Sep 2016 7:23 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 08:40:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.863	130	1121141	4.0000000	ppbv	#	0.00
37) 1,4-Difluorobenzene	9.946	114	4497402	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3276985	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	2034393	3.9959306	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.90%				
Target Compounds							Qvalue
2) Propene	4.086	41	587418	3.0454460	ppbv		99
3) 1,1-DIFLUOROETHANE	4.095	65	443469	3.6129596	ppbv		87
4) Dichlorodifluoromethane	4.150	85	1400708	3.7779799	ppbv		100
5) CHLORODIFLUOROMETHANE	4.182	67	153576	3.4478788	ppbv		92
6) 1,2-Dichlorotetrafluor...	4.382	85	1804341	3.9325309	ppbv		95
7) Chloromethane	4.484	50	635104	3.2498567	ppbv		99
8) Vinyl Chloride	4.681	62	746916	3.5668410	ppbv		99
9) 1,3-Butadiene	4.746	39	537680	3.0310891	ppbv		88
10) Bromomethane	5.237	94	632672	3.9735600	ppbv		99
11) Chloroethane	5.397	64	386844	3.5628717	ppbv		97
12) Vinyl Bromide	5.671	106	637927	4.0500691	ppbv		98
13) Trichlorofluoromethane	5.755	101	1351760	3.7772967	ppbv		99
14) Ethanol	6.076	45	92955	2.8759220	ppbv		96
15) 1,1,2-Trichlorotrifluo...	6.451	101	1300121	3.9098408	ppbv		95
16) 1,1-Dichloroethene	6.475	61	1008390	3.3562555	ppbv		87
17) Acetone	6.570	43	1901846	3.2965352	ppbv		93
18) 2-Propanol	6.752	45	1167335	2.9956067	ppbv	#	74
19) Carbon Disulfide	6.769	76	1837564	3.6758460	ppbv		92
20) Allyl Chloride	6.944	41	806201	2.9164387	ppbv	#	83
21) Methylene Chloride	7.110	49	697226	2.9419166	ppbv	#	85
22) TERT-BUTYL ALCOHOL	7.247	59	1497836	3.4640482	ppbv		96
23) Methyl Tert-Butyl Ether	7.419	73	1941981	3.7058060	ppbv		96
24) Trans-1,2-Dichloroethene	7.418	96	704191	4.1187278	ppbv		85
25) n-Hexane	7.687	57	1080794	3.5441167	ppbv		89
26) 1,1-Dichloroethane	7.934	63	1221761	3.6619936	ppbv		98
27) Vinyl Acetate	7.956	43	1086865	3.2045392	ppbv	#	93
28) ETHYL ACETATE	8.625	70	216273	4.0364764	ppbv		81
29) 2-Butanone (MEK)	8.596	72	344435	3.8548631	ppbv		95
30) cis-1,2-Dichloroethene	8.595	61	1178331	3.7645219	ppbv		89
31) Tetrahydrofuran	8.914	42	771466	3.0475000	ppbv	#	91
32) Chloroform	8.923	83	1302411	3.8279851	ppbv		99
33) Cyclohexane	9.168	84	1028136	4.0159220	ppbv	#	84
34) 1,1,1-Trichloroethane	9.136	97	1230026	3.8421677	ppbv		96
35) Carbon Tetrachloride	9.303	117	1211250	4.0260182	ppbv		100
36) 2,2,4-Trimethylpentane	9.544	57	3596272	3.5289527	ppbv		97
38) Benzene	9.534	78	2314647	3.9481620	ppbv		96
39) 1,2-Dichloroethane	9.588	62	844554	3.5421168	ppbv		98
40) Heptane	9.734	43	1291445	3.1900119	ppbv	#	87
41) Trichloroethene	10.238	95	937425	4.1048697	ppbv		94
42) TERT-AMYL ETHYL ETHER	10.443	73	661469	3.5856629	ppbv		90
43) METHYL CYCLOHEXANE	10.423	83	1304830	4.0319616	ppbv	#	85
44) 1,2-Dichloropropane	10.507	63	807125	3.7251431	ppbv		92
45) Methyl Methacrylate	10.560	69	783665	3.7088365	ppbv		91
46) 1,4-Dioxane	10.639	88	428592	4.1934800	ppbv	#	88
47) Bromodichloromethane	10.784	83	1400903	3.8759016	ppbv		100

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_01.D
Acq On : 29 Sep 2016 7:23 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 08:40:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

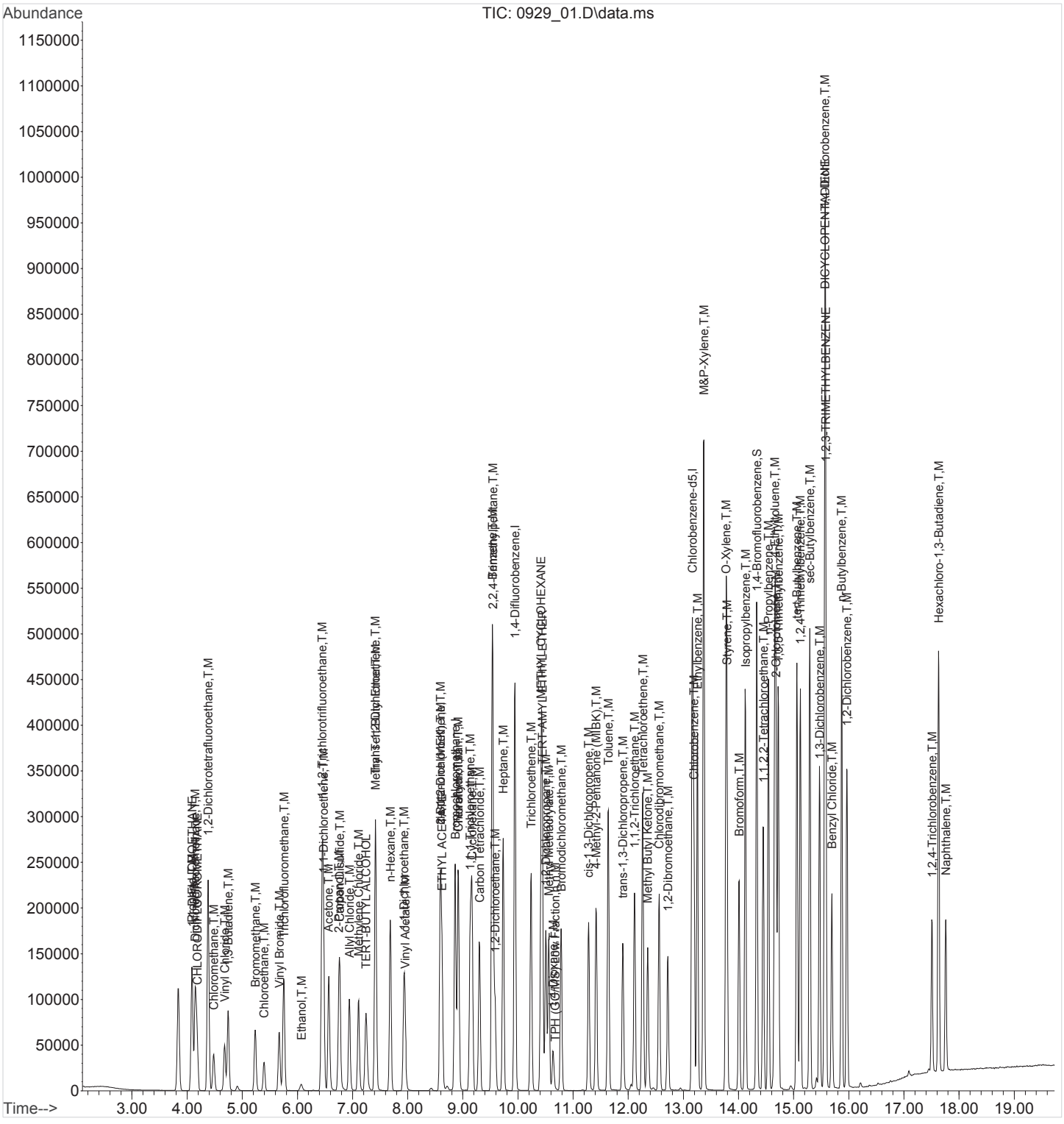
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.283	75	1296533	3.9349352 ppbv	88
49) 4-Methyl-2-Pentanone (...	11.419	43	1621949	3.0944284 ppbv #	91
50) Toluene	11.640	91	2839398	4.0605313 ppbv	98
51) trans-1,3-Dichloropropene	11.905	75	1027232	3.8494113 ppbv	89
52) 1,1,2-Trichloroethane	12.117	97	885159	4.1596933 ppbv	93
53) Tetrachloroethene	12.265	166	1292960	4.3817138 ppbv	97
54) Methyl Butyl Ketone	12.356	43	1257744	3.1427476 ppbv #	90
55) Chlorodibromomethane	12.563	129	1406604	4.2925055 ppbv	100
56) 1,2-Dibromoethane	12.720	107	1214632	4.2619352 ppbv	98
57) Chlorobenzene	13.193	112	1891294	4.2301512 ppbv	92
59) Ethylbenzene	13.256	91	3179354	4.0275659 ppbv	98
60) M&P-Xylene	13.371	91	4720470	7.9125586 ppbv	97
61) O-Xylene	13.776	91	2434278	4.0073445 ppbv	97
62) Styrene	13.791	104	1865186	4.2687668 ppbv	92
63) Bromoform	14.011	173	1279437	4.4635000 ppbv	100
64) Isopropylbenzene	14.125	105	3442582	4.1233899 ppbv	97
65) 1,1,2,2-Tetrachloroethane	14.450	83	1762730	4.0665032 ppbv	99
66) n-Propylbenzene	14.544	91	4080839	4.1189897 ppbv	97
67) 4-Ethyltoluene	14.660	105	3431760	4.2482964 ppbv	99
68) 2-Chlorotoluene	14.680	91	3012499	4.0087876 ppbv	95
70) 1,3,5-Trimethylbenzene	14.723	105	2804041	4.1136189 ppbv	98
71) tert-Butylbenzene	15.061	119	2774574	4.2087944 ppbv	96
72) 1,2,4-Trimethylbenzene	15.123	105	2813477	4.1821872 ppbv	98
73) sec-Butylbenzene	15.294	105	4262867	4.0944735 ppbv	98
74) 1,3-Dichlorobenzene	15.472	146	1721647	4.6437236 ppbv #	95
75) 1,4-Dichlorobenzene	15.569	146	1667330	4.7241770 ppbv #	94
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	2802257	4.1053300 ppbv	97
77) DICYCLOPENTADIENE	15.569	66	3550834	3.6919632 ppbv	95
78) Benzyl Chloride	15.695	91	1826367	4.6516447 ppbv	96
79) n-Butylbenzene	15.873	91	3117686	4.0719603 ppbv	98
80) 1,2-Dichlorobenzene	15.968	146	1727909	4.5780875 ppbv	100
81) 1,2,4-Trichlorobenzene	17.511	180	627453	4.3412628 ppbv	98
82) Hexachloro-1,3-Butadiene	17.632	225	1077816	4.3657535 ppbv	97
83) Naphthalene	17.761	128	1555163	4.3338592 ppbv	97
84) TPH (GC/MS) Low Fraction	10.675	TIC	239696589m	170.8165134 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_01.D
Acq On : 29 Sep 2016 7:23 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS2

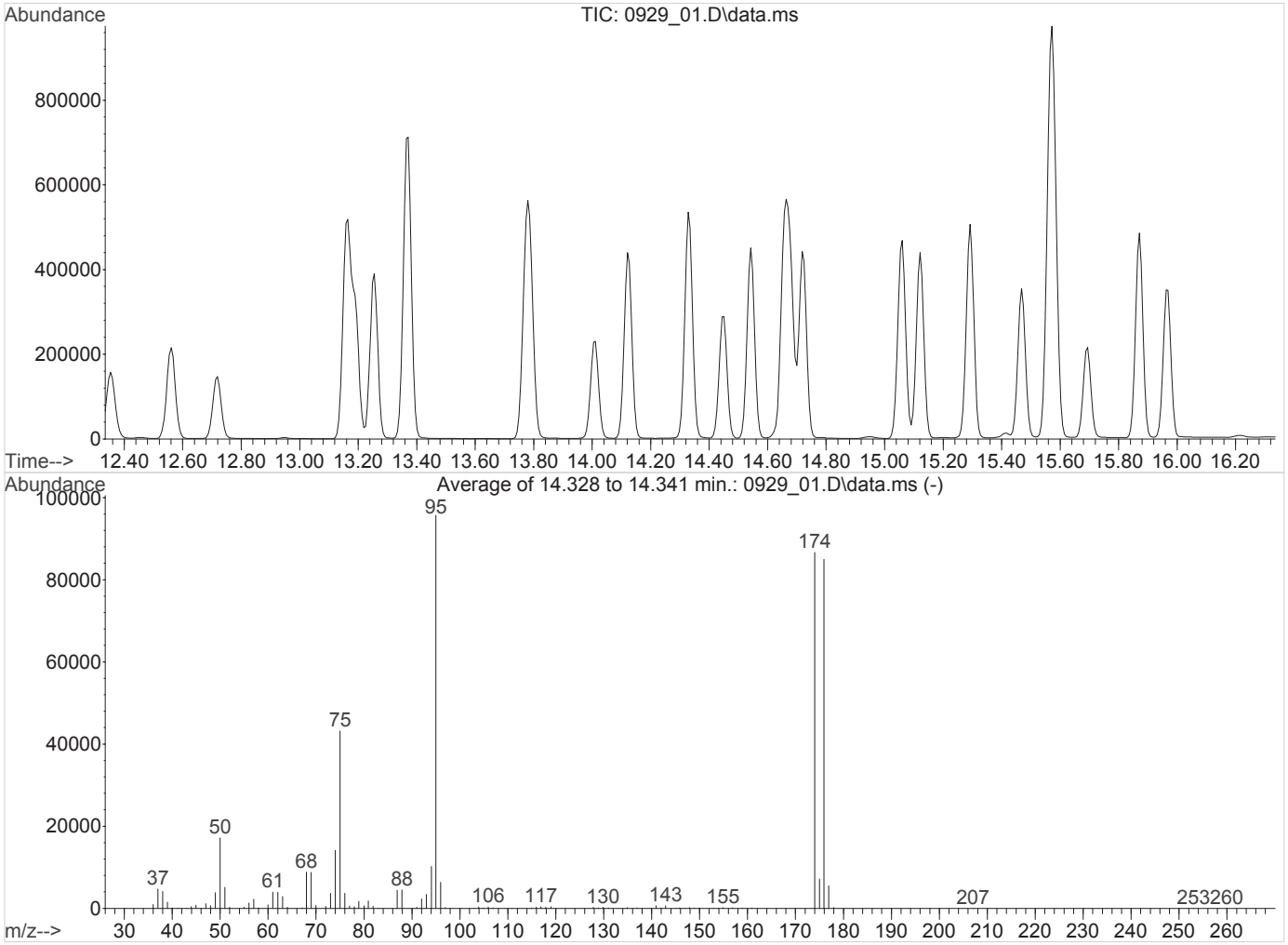
Quant Time: Sep 29 08:40:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092916\
Data File : 0929_01.D
Acq On : 29 Sep 2016 7:23 am
Operator : 564
Sample : ICV AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Title :
Last Update : Tue Sep 27 08:41:58 2016



AutoFind: Scans 2007, 2008, 2009; Background Corrected with Scan 1998

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.9	17158	PASS
75	95	30	66	45.1	43144	PASS
95	95	100	100	100.0	95731	PASS
96	95	5	9	6.6	6310	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.5	86624	PASS
175	174	4	9	8.2	7134	PASS
176	174	93	101	98.1	84944	PASS
177	176	5	9	6.5	5486	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_02.D
Acq On : 29 Sep 2016 8:07 am
Operator : 564
Sample : LCS 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 08:40:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.869	130	1039309	4.0000000	ppbv		# 0.00
37) 1,4-Difluorobenzene	9.950	114	4182360	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3063428	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	1873763	3.9369917	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.42%				
Target Compounds							Qvalue
2) Propene	4.093	41	572069	3.1993897	ppbv		99
3) 1,1-DIFLUOROETHANE	4.103	65	427929	3.7608533	ppbv		88
4) Dichlorodifluoromethane	4.157	85	1435707	4.1772788	ppbv		100
5) CHLORODIFLUOROMETHANE	4.189	67	149648	3.6242228	ppbv		90
6) 1,2-Dichlorotetrafluor...	4.391	85	1724472	4.0543864	ppbv		94
7) Chloromethane	4.491	50	619742	3.4209442	ppbv		99
8) Vinyl Chloride	4.690	62	723794	3.7285685	ppbv		99
9) 1,3-Butadiene	4.754	39	523661	3.1844940	ppbv		90
10) Bromomethane	5.245	94	605997	4.1057021	ppbv		100
11) Chloroethane	5.406	64	377265	3.7482305	ppbv		98
12) Vinyl Bromide	5.680	106	612160	4.1924907	ppbv		97
13) Trichlorofluoromethane	5.763	101	1304324	3.9317187	ppbv		98
14) Ethanol	6.092	45	92130	3.0748284	ppbv		99
15) 1,1,2-Trichlorotrifluo...	6.459	101	1254847	4.0708158	ppbv		95
16) 1,1-Dichloroethene	6.484	61	976397	3.5056467	ppbv		90
17) Acetone	6.580	43	1837161	3.4351448	ppbv		94
18) 2-Propanol	6.765	45	1103855	3.0557436	ppbv	#	74
19) Carbon Disulfide	6.777	76	1739148	3.7528993	ppbv		93
20) Allyl Chloride	6.952	41	757533	2.9561479	ppbv	#	84
21) Methylene Chloride	7.118	49	650760	2.9620569	ppbv	#	85
22) TERT-BUTYL ALCOHOL	7.260	59	1420575	3.5440460	ppbv		95
23) Methyl Tert-Butyl Ether	7.428	73	1834451	3.7762363	ppbv		96
24) Trans-1,2-Dichloroethene	7.426	96	643371	4.0592866	ppbv		89
25) n-Hexane	7.694	57	1006583	3.5606569	ppbv		90
26) 1,1-Dichloroethane	7.940	63	1137044	3.6764109	ppbv		98
27) Vinyl Acetate	7.964	43	1003846	3.1928049	ppbv	#	93
28) ETHYL ACETATE	8.631	70	199107	4.0086860	ppbv		83
29) 2-Butanone (MEK)	8.603	72	325701	3.9322115	ppbv		96
30) cis-1,2-Dichloroethene	8.601	61	1100518	3.7927571	ppbv		89
31) Tetrahydrofuran	8.921	42	725123	3.0899666	ppbv	#	91
32) Chloroform	8.928	83	1222193	3.8750495	ppbv		98
33) Cyclohexane	9.173	84	957329	4.0337702	ppbv	#	83
34) 1,1,1-Trichloroethane	9.141	97	1172940	3.9523323	ppbv		97
35) Carbon Tetrachloride	9.308	117	1152671	4.1329731	ppbv		99
36) 2,2,4-Trimethylpentane	9.548	57	3363827	3.5607569	ppbv		97
38) Benzene	9.538	78	2153406	3.9498119	ppbv		97
39) 1,2-Dichloroethane	9.593	62	815474	3.6777787	ppbv		97
40) Heptane	9.738	43	1190999	3.1634998	ppbv	#	87
41) Trichloroethene	10.242	95	871844	4.1052695	ppbv		94
42) TERT-AMYL ETHYL ETHER	10.447	73	656276	3.8254866	ppbv		89
43) METHYL CYCLOHEXANE	10.426	83	1217092	4.0441393	ppbv	#	85
44) 1,2-Dichloropropane	10.511	63	753853	3.7413568	ppbv		91
45) Methyl Methacrylate	10.564	69	725687	3.6931478	ppbv		91
46) 1,4-Dioxane	10.643	88	409892	4.3126054	ppbv	#	89
47) Bromodichloromethane	10.787	83	1326320	3.9459655	ppbv		100

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_02.D
Acq On : 29 Sep 2016 8:07 am
Operator : 564
Sample : LCS 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 08:40:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

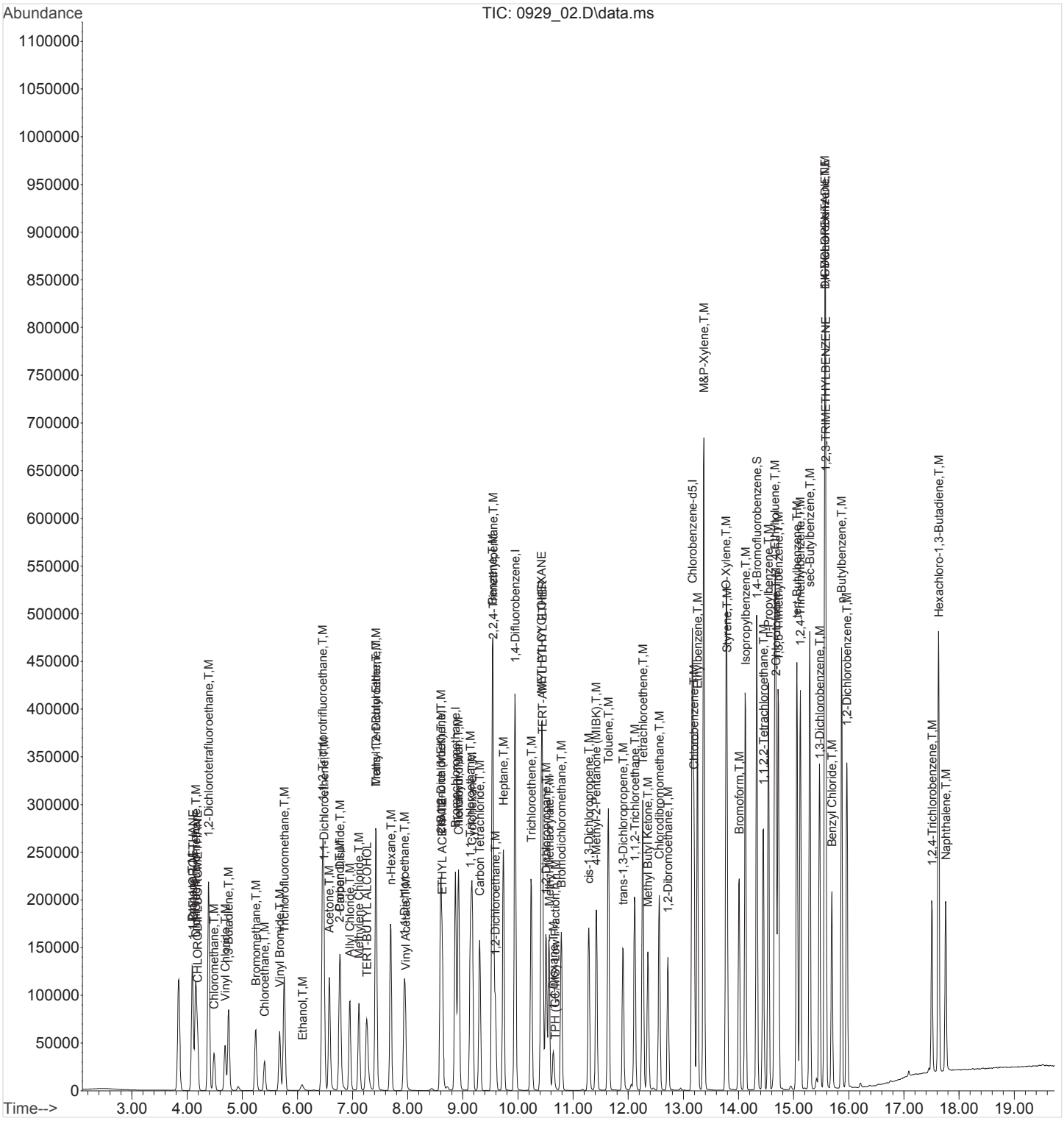
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	1226610	4.0031418	ppbv		89
49) 4-Methyl-2-Pentanone (...	11.423	43	1521072	3.1205665	ppbv	#	91
50) Toluene	11.642	91	2655824	4.0840975	ppbv		98
51) trans-1,3-Dichloropropene	11.907	75	976518	3.9350135	ppbv		89
52) 1,1,2-Trichloroethane	12.120	97	837075	4.2300421	ppbv		93
53) Tetrachloroethene	12.267	166	1219898	4.4455216	ppbv		97
54) Methyl Butyl Ketone	12.359	43	1214514	3.2633242	ppbv	#	91
55) Chlorodibromomethane	12.565	129	1348545	4.4253208	ppbv		100
56) 1,2-Dibromoethane	12.722	107	1158617	4.3716181	ppbv		100
57) Chlorobenzene	13.194	112	1788033	4.3004384	ppbv		92
59) Ethylbenzene	13.258	91	3008115	4.0762880	ppbv		98
60) M&P-Xylene	13.372	91	4464578	8.0053222	ppbv		97
61) O-Xylene	13.777	91	2300974	4.0519587	ppbv		97
62) Styrene	13.792	104	1767749	4.3278022	ppbv		92
63) Bromoform	14.012	173	1224134	4.5682765	ppbv		99
64) Isopropylbenzene	14.126	105	3282152	4.2052858	ppbv		97
65) 1,1,2,2-Tetrachloroethane	14.450	83	1669766	4.1205732	ppbv		100
66) n-Propylbenzene	14.545	91	3871401	4.1799985	ppbv		96
67) 4-Ethyltoluene	14.660	105	3245014	4.2971568	ppbv		99
68) 2-Chlorotoluene	14.680	91	2864490	4.0775579	ppbv		95
70) 1,3,5-Trimethylbenzene	14.723	105	2677992	4.2025768	ppbv		98
71) tert-Butylbenzene	15.062	119	2650849	4.3014324	ppbv		96
72) 1,2,4-Trimethylbenzene	15.124	105	2663564	4.2353561	ppbv		97
73) sec-Butylbenzene	15.294	105	4035778	4.1465819	ppbv		98
74) 1,3-Dichlorobenzene	15.472	146	1672918	4.8268478	ppbv	#	95
75) 1,4-Dichlorobenzene	15.569	146	1634442	4.9538278	ppbv	#	94
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	2678667	4.1978366	ppbv		98
77) DICYCLOPENTADIENE	15.569	66	3359387	3.7364038	ppbv		95
78) Benzyl Chloride	15.694	91	1769501	4.8209866	ppbv		96
79) n-Butylbenzene	15.872	91	2976178	4.1581170	ppbv		98
80) 1,2-Dichlorobenzene	15.968	146	1667889	4.7271253	ppbv		100
81) 1,2,4-Trichlorobenzene	17.510	180	668085	4.9446244	ppbv		98
82) Hexachloro-1,3-Butadiene	17.631	225	1087821	4.7134482	ppbv		98
83) Naphthalene	17.760	128	1673067	4.9874559	ppbv	#	96
84) TPH (GC/MS) Low Fraction	10.675	TIC	227033528m	173.0711598	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_02.D
Acq On : 29 Sep 2016 8:07 am
Operator : 564
Sample : LCS 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 08:40:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_03.D
Acq On : 29 Sep 2016 8:52 am
Operator : 564
Sample : LCSD 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 09:17:07 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.869	130	1005350	4.0000000	ppbv	#	0.00
37) 1,4-Difluorobenzene	9.951	114	4045709	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.165	117	2980779	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.333	95	1828056	3.9474555	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.69%				
Target Compounds							Qvalue
2) Propene	4.092	41	543437	3.1419222	ppbv		99
3) 1,1-DIFLUOROETHANE	4.102	65	415905	3.7786520	ppbv		86
4) Dichlorodifluoromethane	4.156	85	1380869	4.1534357	ppbv		100
5) CHLORODIFLUOROMETHANE	4.189	67	148038	3.7063265	ppbv		86
6) 1,2-Dichlorotetrafluor...	4.390	85	1663836	4.0439616	ppbv		94
7) Chloromethane	4.491	50	592623	3.3817444	ppbv		98
8) Vinyl Chloride	4.689	62	697341	3.7136431	ppbv		99
9) 1,3-Butadiene	4.753	39	501611	3.1534461	ppbv		91
10) Bromomethane	5.244	94	582735	4.0814603	ppbv		100
11) Chloroethane	5.406	64	367305	3.7725425	ppbv		98
12) Vinyl Bromide	5.680	106	593432	4.2015085	ppbv		97
13) Trichlorofluoromethane	5.763	101	1278180	3.9830583	ppbv		99
14) Ethanol	6.095	45	86849	2.9964680	ppbv		99
15) 1,1,2-Trichlorotrifluo...	6.459	101	1217899	4.0844119	ppbv		95
16) 1,1-Dichloroethene	6.483	61	954347	3.5422201	ppbv		90
17) Acetone	6.582	43	1793737	3.4672407	ppbv		95
18) 2-Propanol	6.768	45	1073408	3.0718303	ppbv	#	74
19) Carbon Disulfide	6.777	76	1685334	3.7596196	ppbv		94
20) Allyl Chloride	6.952	41	733648	2.9596461	ppbv	#	84
21) Methylene Chloride	7.118	49	629507	2.9621074	ppbv	#	85
22) TERT-BUTYL ALCOHOL	7.265	59	1364466	3.5190483	ppbv		95
23) Methyl Tert-Butyl Ether	7.430	73	1782299	3.7928103	ppbv		97
24) Trans-1,2-Dichloroethene	7.425	96	636635	4.1524644	ppbv		86
25) n-Hexane	7.694	57	972990	3.5580876	ppbv		89
26) 1,1-Dichloroethane	7.941	63	1110254	3.7110485	ppbv		99
27) Vinyl Acetate	7.964	43	967392	3.1807918	ppbv	#	93
28) ETHYL ACETATE	8.632	70	190488	3.9647001	ppbv		86
29) 2-Butanone (MEK)	8.603	72	310544	3.8758569	ppbv		97
30) cis-1,2-Dichloroethene	8.601	61	1065003	3.7943408	ppbv		90
31) Tetrahydrofuran	8.922	42	692810	3.0519975	ppbv	#	91
32) Chloroform	8.928	83	1184826	3.8834680	ppbv		99
33) Cyclohexane	9.173	84	925848	4.0328992	ppbv	#	83
34) 1,1,1-Trichloroethane	9.141	97	1140807	3.9739038	ppbv		96
35) Carbon Tetrachloride	9.308	117	1125447	4.1716702	ppbv		100
36) 2,2,4-Trimethylpentane	9.548	57	3235640	3.5407597	ppbv		97
38) Benzene	9.539	78	2084433	3.9524397	ppbv		97
39) 1,2-Dichloroethane	9.593	62	793527	3.6996810	ppbv		97
40) Heptane	9.738	43	1140624	3.1320301	ppbv	#	87
41) Trichloroethene	10.242	95	842562	4.1013972	ppbv		93
42) TERT-AMYL ETHYL ETHER	10.448	73	624495	3.7631879	ppbv		89
43) METHYL CYCLOHEXANE	10.426	83	1189946	4.0874899	ppbv	#	84
44) 1,2-Dichloropropane	10.511	63	710323	3.6443942	ppbv		93
45) Methyl Methacrylate	10.565	69	714180	3.7573548	ppbv		93
46) 1,4-Dioxane	10.646	88	376817	4.0985328	ppbv	#	92
47) Bromodichloromethane	10.788	83	1286081	3.9554883	ppbv		99

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_03.D
Acq On : 29 Sep 2016 8:52 am
Operator : 564
Sample : LCSD 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

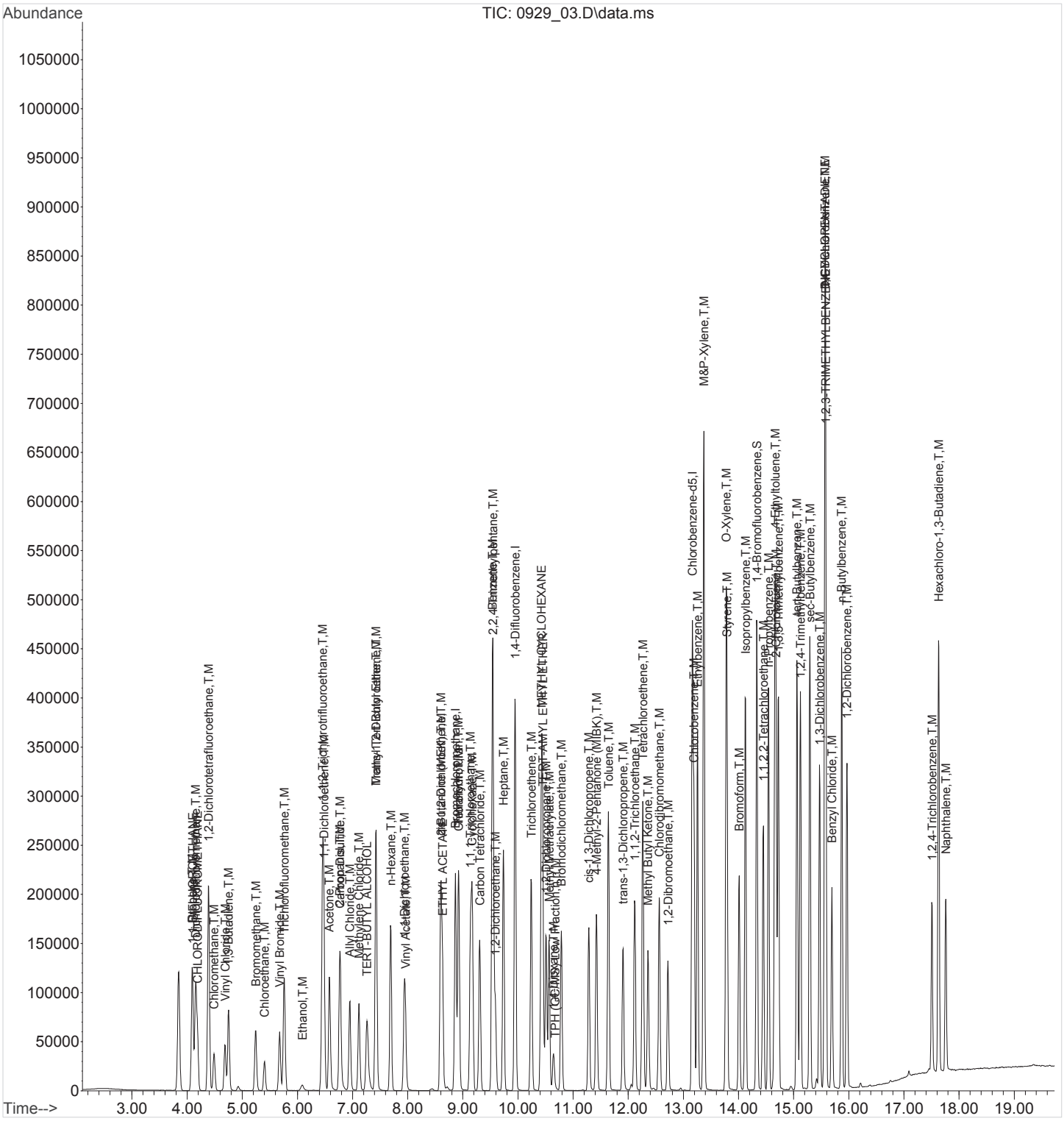
Quant Time: Sep 29 09:17:07 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	1177119	3.9713821 ppbv	90
49) 4-Methyl-2-Pentanone (...	11.425	43	1458005	3.0922127 ppbv #	91
50) Toluene	11.643	91	2564399	4.0767045 ppbv	98
51) trans-1,3-Dichloropropene	11.908	75	946137	3.9413665 ppbv	91
52) 1,1,2-Trichloroethane	12.121	97	800910	4.1839922 ppbv	93
53) Tetrachloroethene	12.268	166	1188821	4.4786022 ppbv	96
54) Methyl Butyl Ketone	12.361	43	1164430	3.2344292 ppbv #	91
55) Chlorodibromomethane	12.566	129	1292609	4.3850358 ppbv	100
56) 1,2-Dibromoethane	12.722	107	1122063	4.3766979 ppbv	100
57) Chlorobenzene	13.195	112	1743300	4.3344715 ppbv	92
59) Ethylbenzene	13.258	91	2928185	4.0779970 ppbv	98
60) M&P-Xylene	13.373	91	4321098	7.9628857 ppbv	97
61) O-Xylene	13.777	91	2232319	4.0400561 ppbv	98
62) Styrene	13.793	104	1720530	4.3289953 ppbv	92
63) Bromoform	14.013	173	1196482	4.5888869 ppbv	100
64) Isopropylbenzene	14.127	105	3188776	4.1989310 ppbv	97
65) 1,1,2,2-Tetrachloroethane	14.451	83	1603254	4.0661409 ppbv	99
66) n-Propylbenzene	14.546	91	3735044	4.1445902 ppbv	97
67) 4-Ethyltoluene	14.661	105	3140150	4.2735912 ppbv	98
68) 2-Chlorotoluene	14.681	91	2773052	4.0568486 ppbv	95
70) 1,3,5-Trimethylbenzene	14.724	105	2577225	4.1565851 ppbv	98
71) tert-Butylbenzene	15.063	119	2560131	4.2694141 ppbv	97
72) 1,2,4-Trimethylbenzene	15.125	105	2574413	4.2071010 ppbv	97
73) sec-Butylbenzene	15.295	105	3916147	4.1352322 ppbv	98
74) 1,3-Dichlorobenzene	15.473	146	1620600	4.8055467 ppbv	95
75) 1,4-Dichlorobenzene	15.570	146	1579473	4.9199581 ppbv #	95
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	2596248	4.1814897 ppbv	98
77) DICYCLOPENTADIENE	15.570	66	3246741	3.7112429 ppbv	94
78) Benzyl Chloride	15.696	91	1727710	4.8376454 ppbv	97
79) n-Butylbenzene	15.873	91	2882658	4.1391291 ppbv	98
80) 1,2-Dichlorobenzene	15.969	146	1620792	4.7210118 ppbv	99
81) 1,2,4-Trichlorobenzene	17.511	180	645206	4.9077009 ppbv	99
82) Hexachloro-1,3-Butadiene	17.632	225	1045028	4.6535775 ppbv	97
83) Naphthalene	17.761	128	1644168	5.0372077 ppbv #	96
84) TPH (GC/MS) Low Fraction	10.675	TIC	219782954m	172.1894930 ppbv	

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

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_03.D
Acq On : 29 Sep 2016 8:52 am
Operator : 564
Sample : LCSD 1x WG912392 BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 09:17:07 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_04.D
Acq On : 29 Sep 2016 9:39 am
Operator : 564
Sample : BLANK 1x WG912392
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 09:59:47 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

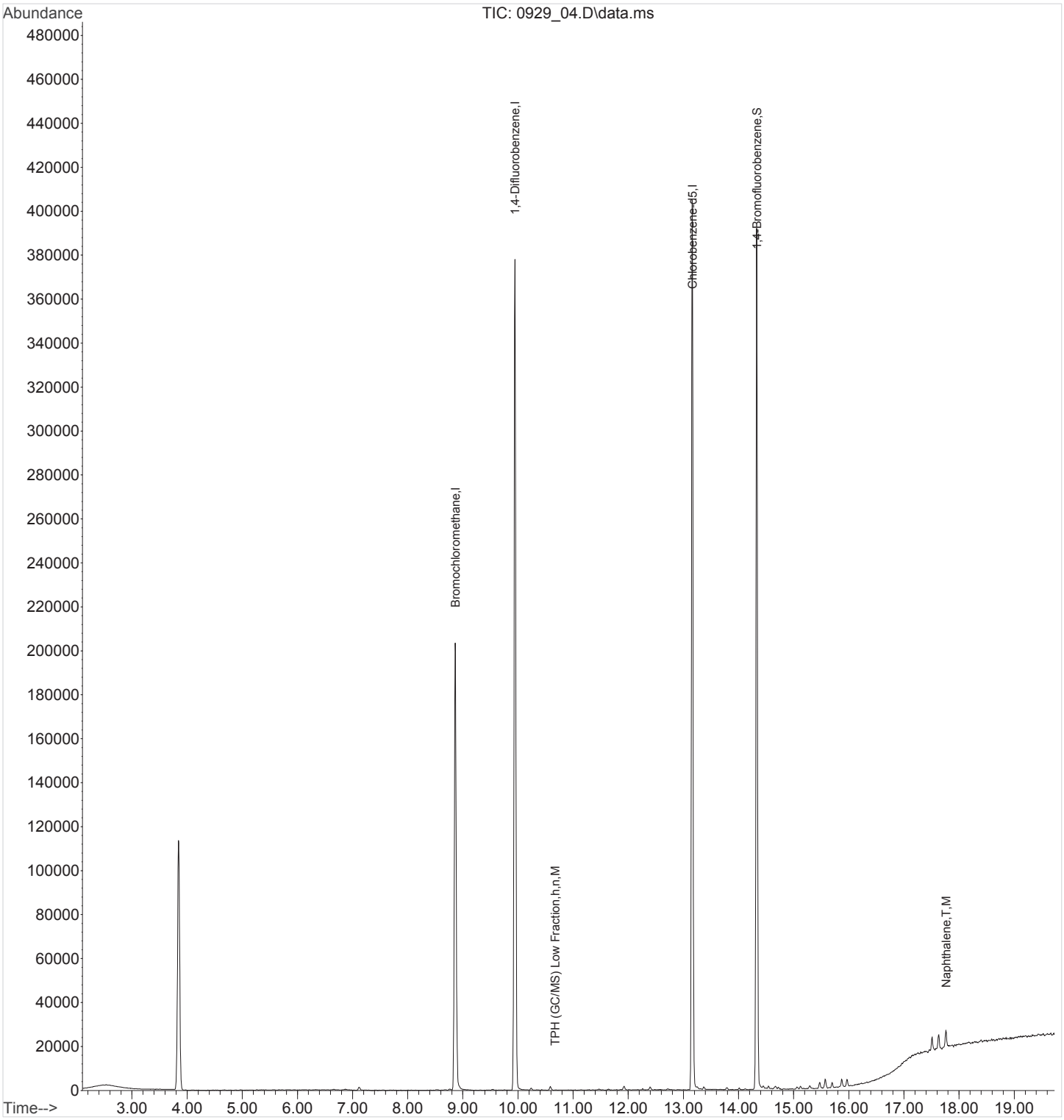
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.865	130	954141	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.947	114	3781680	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	2688705	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1480611	3.5445035	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 88.61%			
Target Compounds						Qvalue
83) Naphthalene	17.764	128	70802	0.2404766	ppbv	# 77
84) TPH (GC/MS) Low Fraction	10.675	TIC	1806676m	1.5692042	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_04.D
Acq On : 29 Sep 2016 9:39 am
Operator : 564
Sample : BLANK 1x WG912392
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 29 09:59:47 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_09.D
Acq On : 29 Sep 2016 1:44 pm
Operator : 564
Sample : L861822-09 2x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 14:37:28 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

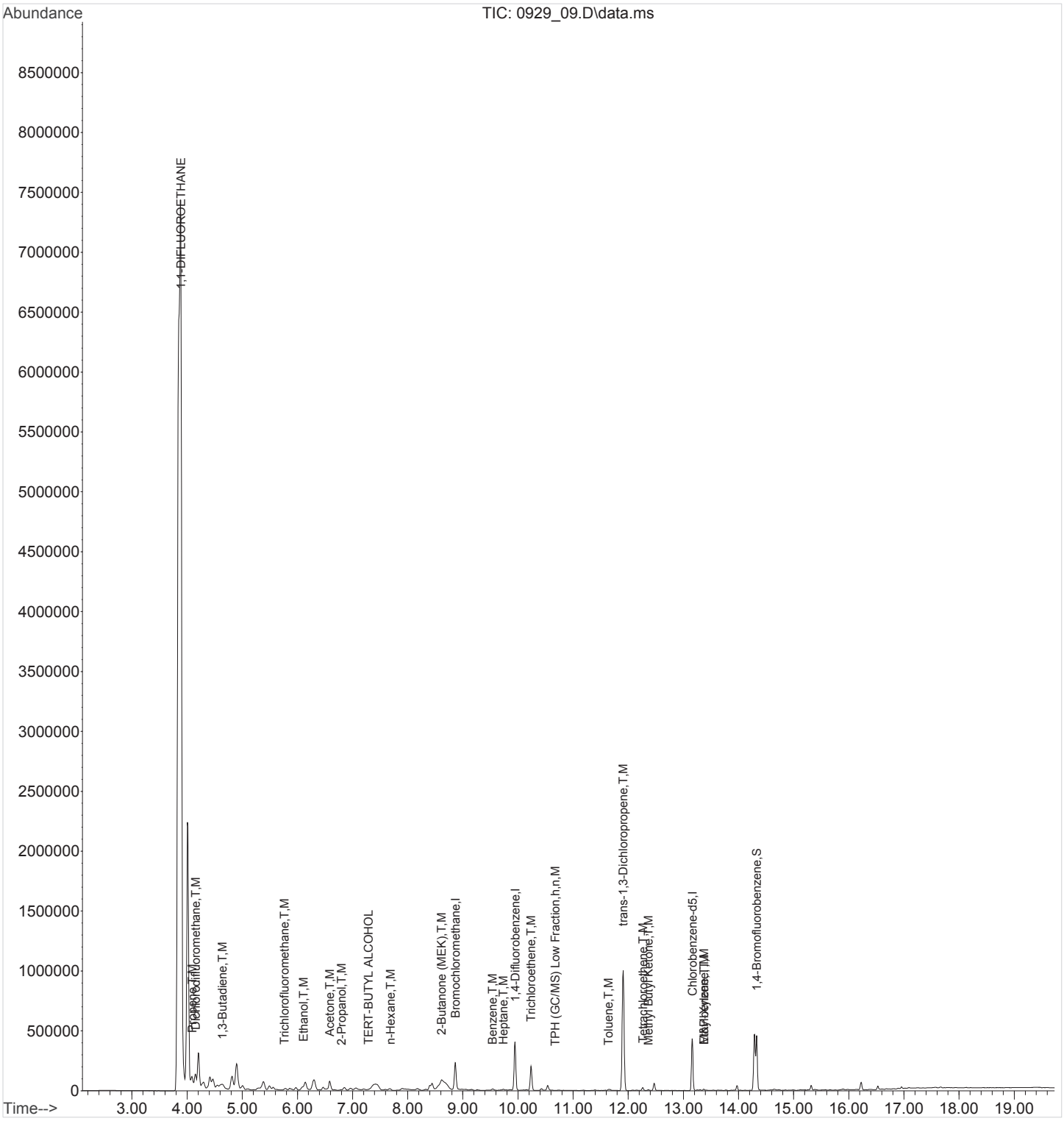
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.867	130	966320	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.948	114	3829138	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	2746028	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	1636841	3.8367126	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 95.92%				
Target Compounds							Qvalue
2) Propene	4.090	41	355877	4.2812664	ppbv		91
3) 1,1-DIFLUOROETHANE	3.888	65	680934	12.8728288	ppbv	#	1
4) Dichlorodifluoromethane	4.154	85	47601	0.2979186	ppbv	#	42
9) 1,3-Butadiene	4.644	39	158386	2.0718686	ppbv	#	4
13) Trichlorofluoromethane	5.764	101	53412	0.3463298	ppbv		97
14) Ethanol	6.109	45	99602	7.1506051	ppbv		95
17) Acetone	6.588	43	1192040	4.7944882	ppbv		99
18) 2-Propanol	6.801	45	71835	0.4277548	ppbv	#	74
22) TERT-BUTYL ALCOHOL	7.287	59	60688	0.3256784	ppbv	#	56
25) n-Hexane	7.692	57	53414	0.4064299	ppbv	#	1
29) 2-Butanone (MEK)	8.617	72	78386	2.0356698	ppbv		98
38) Benzene	9.538	78	49682	0.1990653	ppbv	#	1
40) Heptane	9.734	43	59825	0.3471252	ppbv	#	64
41) Trichloroethene	10.240	95	767744	7.8971454	ppbv		95
50) Toluene	11.642	91	83639	0.2809659	ppbv		97
51) trans-1,3-Dichloropropene	11.908	75	172128	1.5151928	ppbv	#	30
53) Tetrachloroethene	12.266	166	98933	0.7875693	ppbv		97
54) Methyl Butyl Ketone	12.367	43	53495	0.3139929	ppbv	#	87
59) Ethylbenzene	13.371	91	63850	0.1930468	ppbv	#	62
60) M&P-Xylene	13.371	91	63941	0.2558040	ppbv		98
84) TPH (GC/MS) Low Fraction	10.675	TIC	48230724m	82.0335142	ppbv		

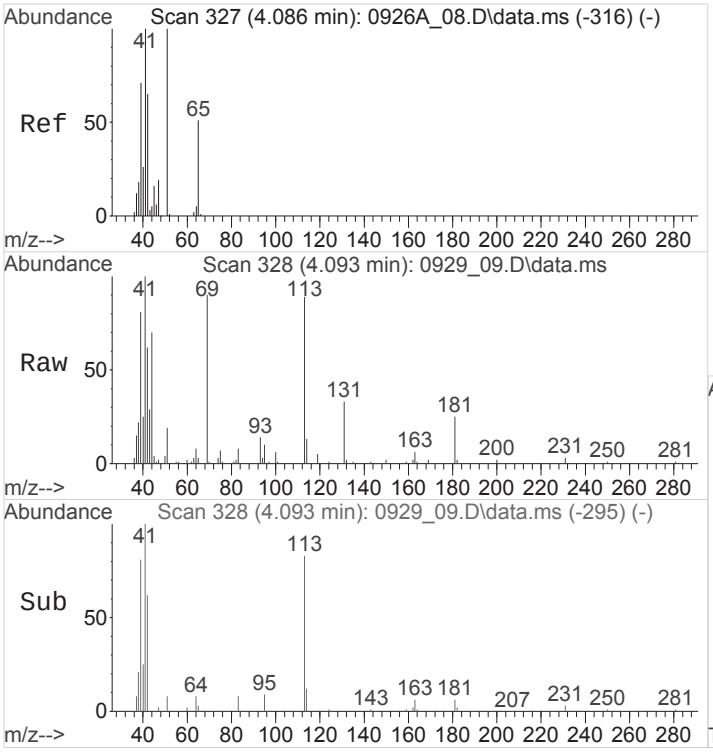
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_09.D
Acq On : 29 Sep 2016 1:44 pm
Operator : 564
Sample : L861822-09 2x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 2
InstName : AIRMS2

Quant Time: Sep 29 14:37:28 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

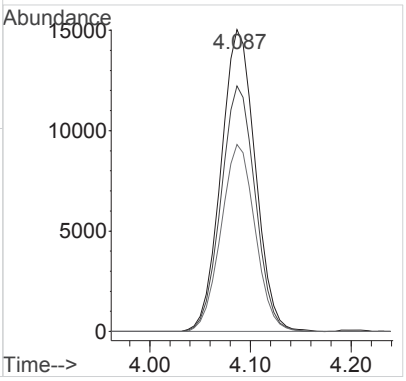


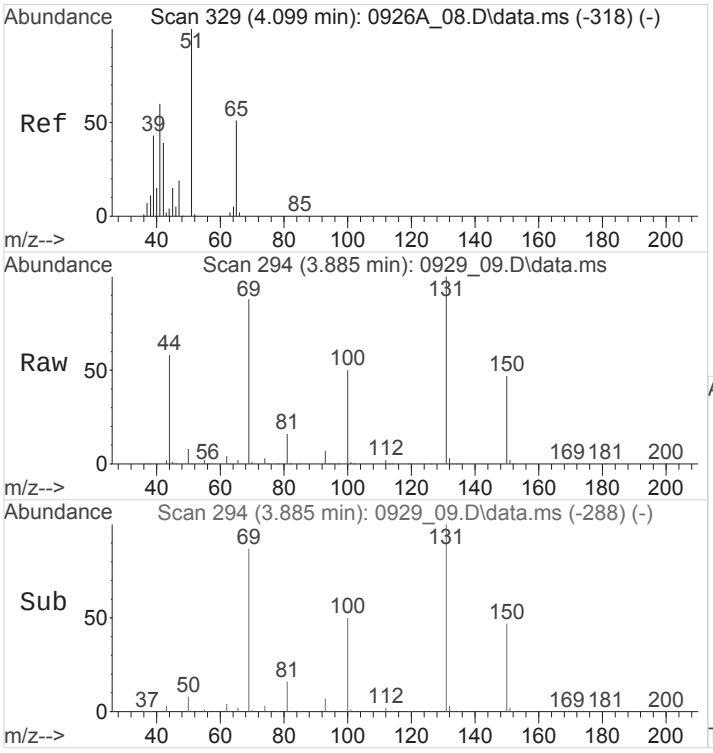


#2
Propene
Concen: 4.2812664 ppbv
RT: 4.090 min Scan# 328
Delta R.T. 0.001 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 41 Resp: 355877

Ion	Ratio	Lower	Upper
41	100		
39	81.0	56.5	84.7
42	61.6	52.2	78.4

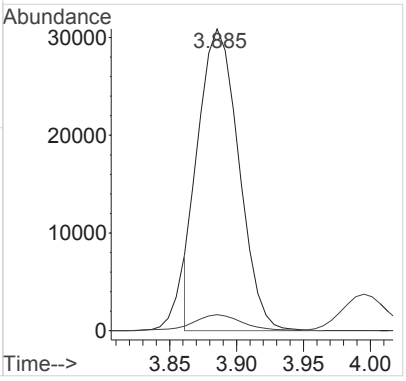


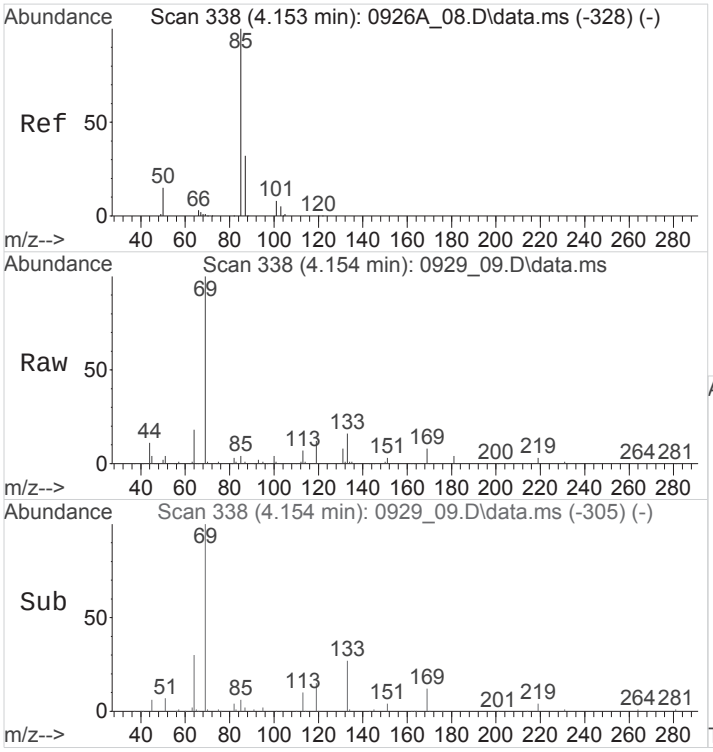


#3
1,1-DIFLUOROETHANE
Concen: 12.8728288 ppbv
RT: 3.888 min Scan# 294
Delta R.T. -0.210 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 65 Resp: 680934

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

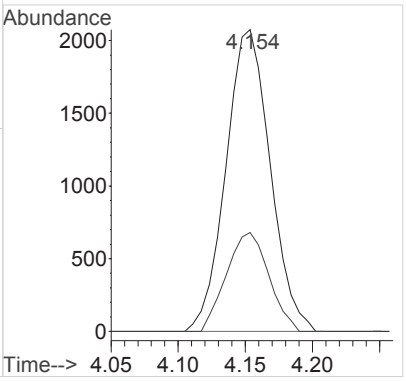


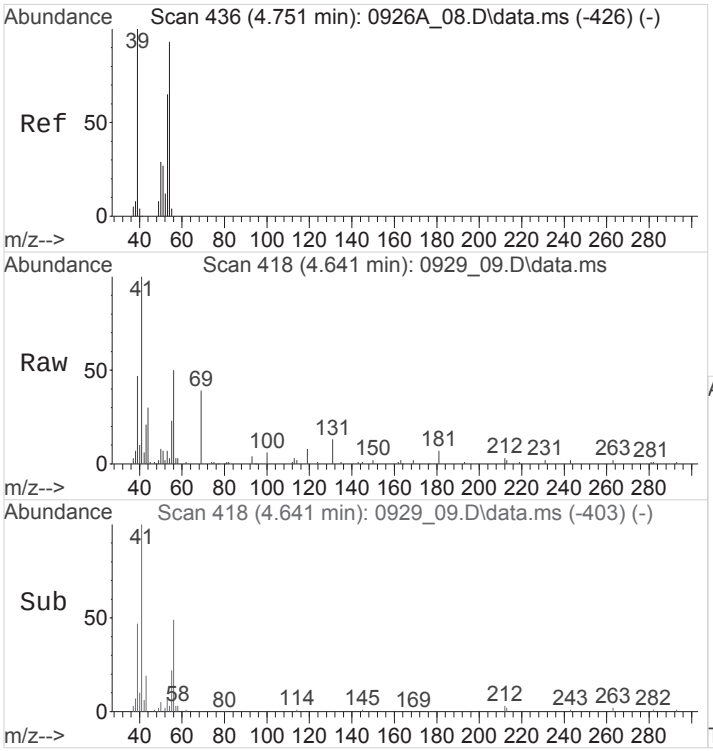


#4
Dichlorodifluoromethane
Concen: 0.2979186 ppbv
RT: 4.154 min Scan# 338
Delta R.T. 0.002 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 85 Resp: 47601

Ion	Ratio	Lower	Upper
85	100		
87	0.0	25.8	38.6#

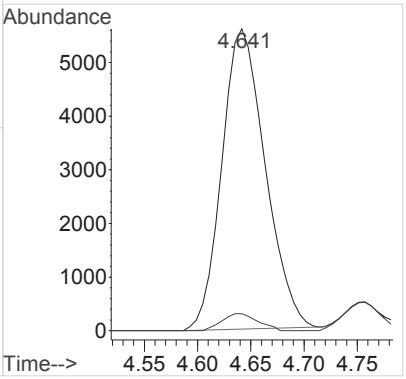


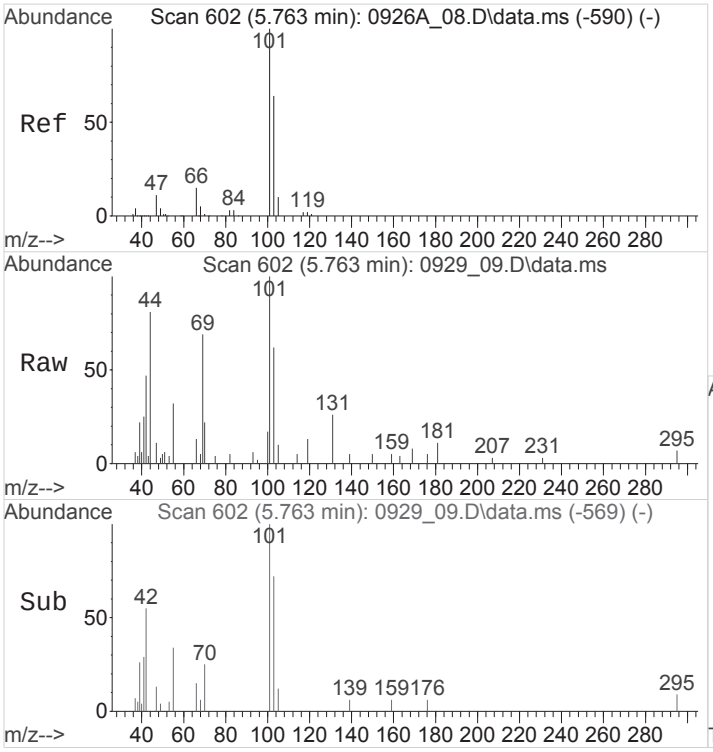


#9
1,3-Butadiene
Concen: 2.0718686 ppbv
RT: 4.644 min Scan# 418
Delta R.T. -0.108 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 39 Resp: 158386

Ion	Ratio	Lower	Upper
39	100		
54	0.0	73.4	110.0#

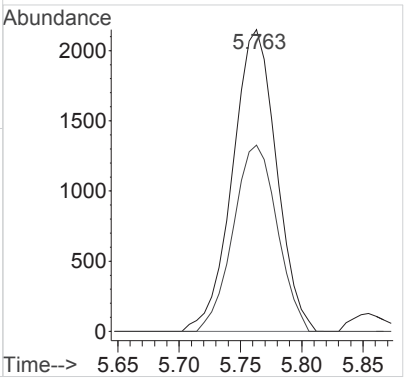


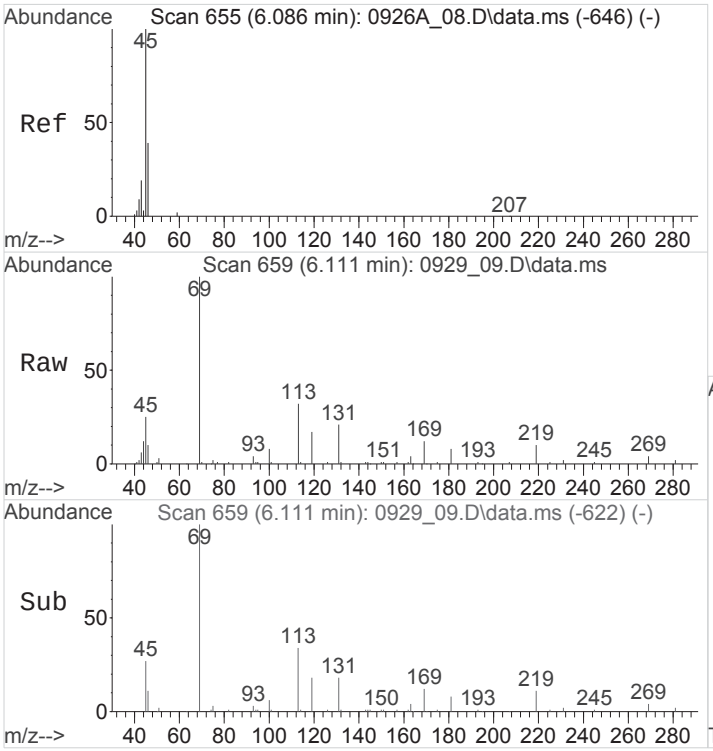


#13
Trichlorofluoromethane
Concen: 0.3463298 ppbv
RT: 5.764 min Scan# 602
Delta R.T. 0.003 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion:101 Resp: 53412

Ion	Ratio	Lower	Upper
101	100		
103	62.0	51.7	77.5

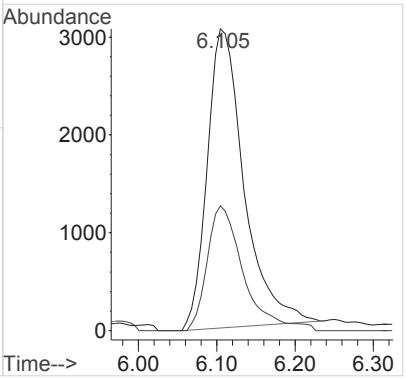


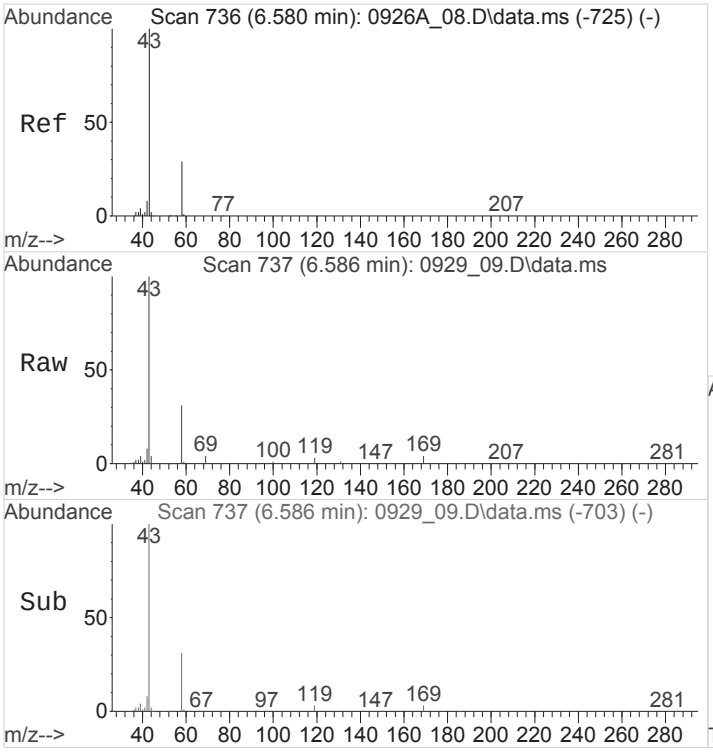


#14
Ethanol
Concen: 7.1506051 ppbv
RT: 6.109 min Scan# 659
Delta R.T. 0.021 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 45 Resp: 99602

Ion	Ratio	Lower	Upper
45	100		
46	37.9	33.0	49.4

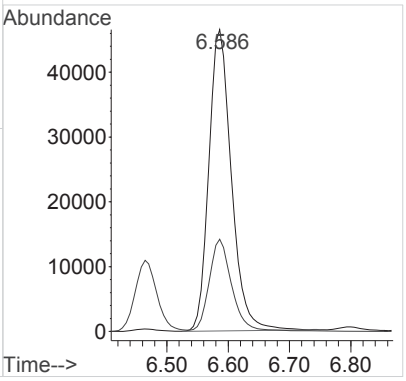


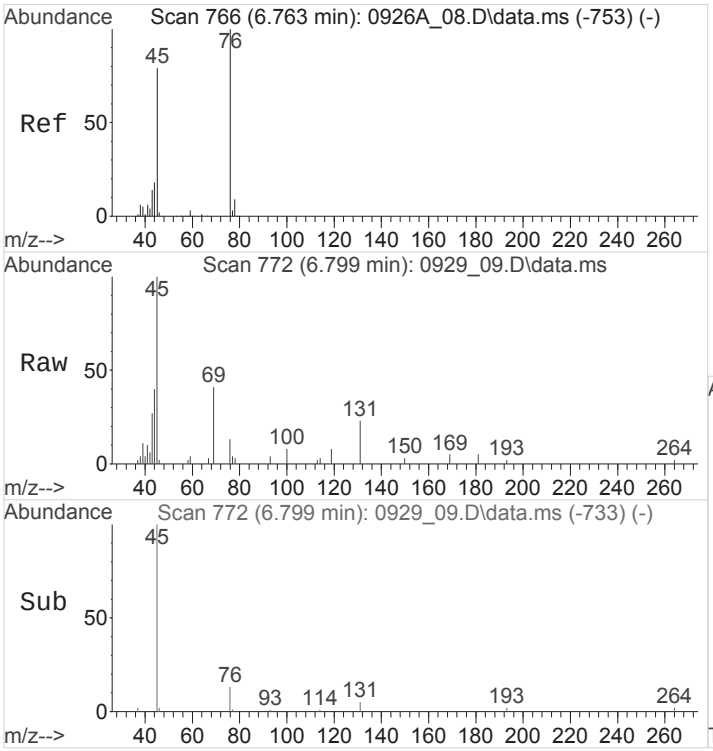


#17
Acetone
Concen: 4.7944882 ppbv
RT: 6.588 min Scan# 737
Delta R.T. 0.009 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 1192040

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.1	34.7

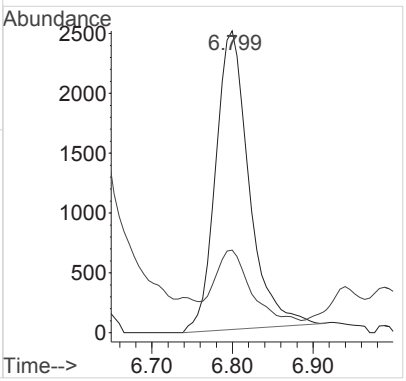


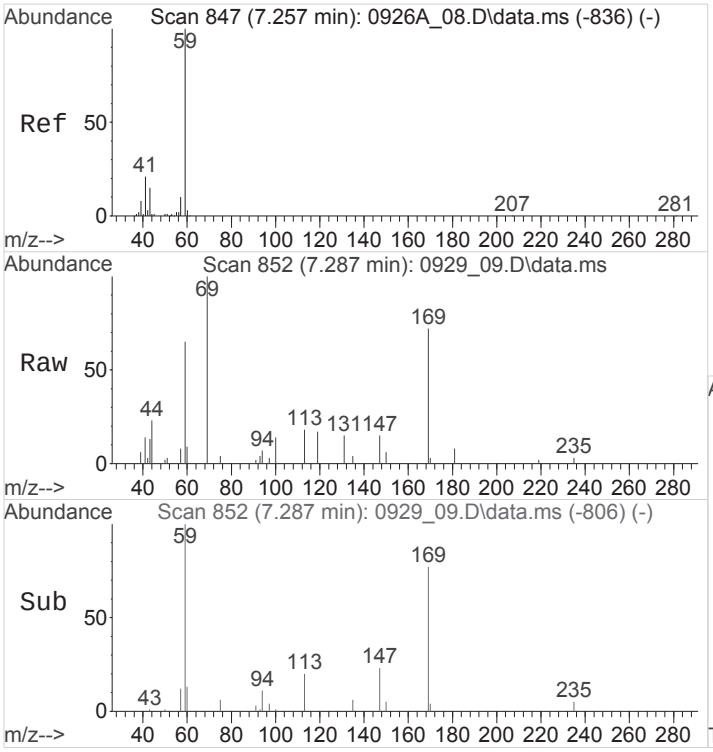


#18
2-Propanol
Concen: 0.4277548 ppbv
RT: 6.801 min Scan# 772
Delta R.T. 0.040 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 45 Resp: 71835

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

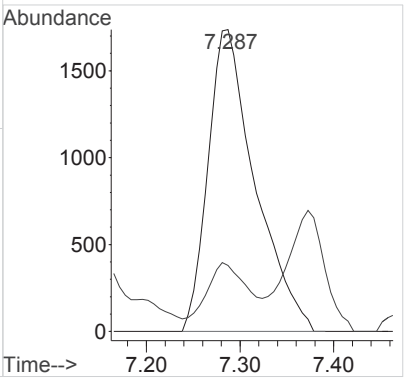


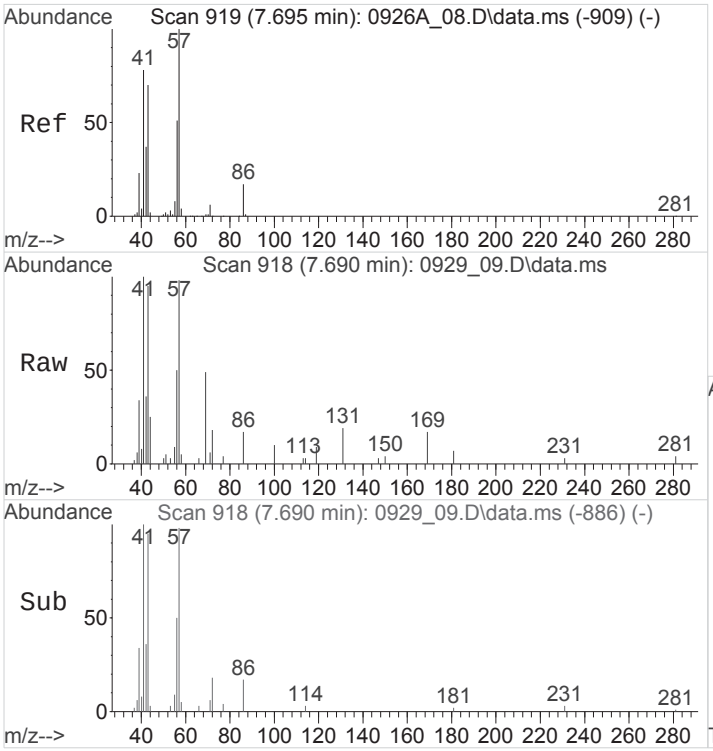


#22
TERT-BUTYL ALCOHOL
Concen: 0.3256784 ppbv
RT: 7.287 min Scan# 852
Delta R.T. 0.032 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 59 Resp: 60688

Ion	Ratio	Lower	Upper
59	100		
41	0.0	16.5	24.7#

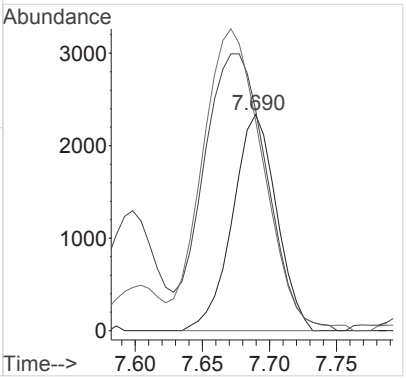


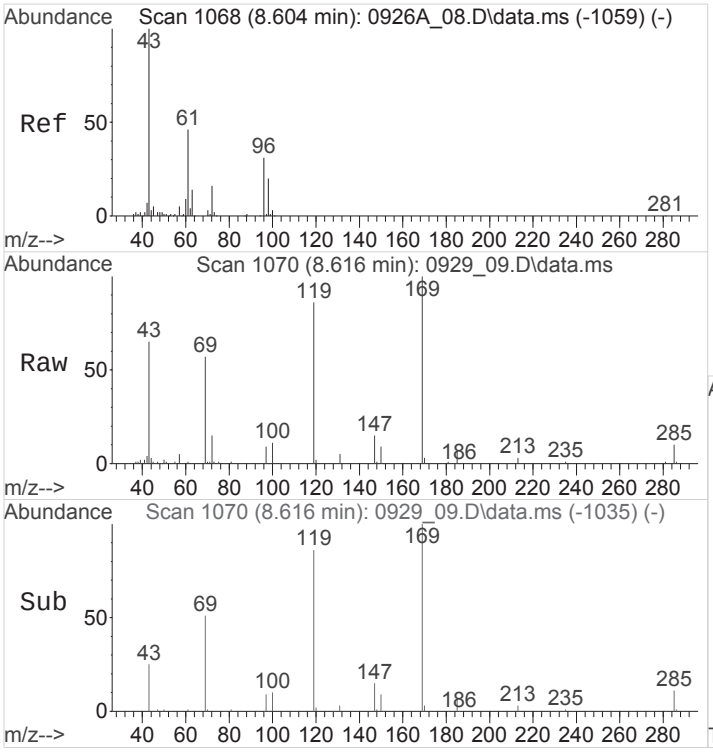


#25
n-Hexane
Concen: 0.4064299 ppbv
RT: 7.692 min Scan# 918
Delta R.T. -0.001 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 57 Resp: 53414

Ion	Ratio	Lower	Upper
57	100		
41	183.9	63.2	94.8#
43	193.1	56.0	84.0#

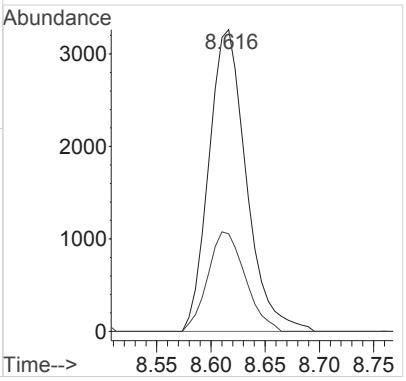


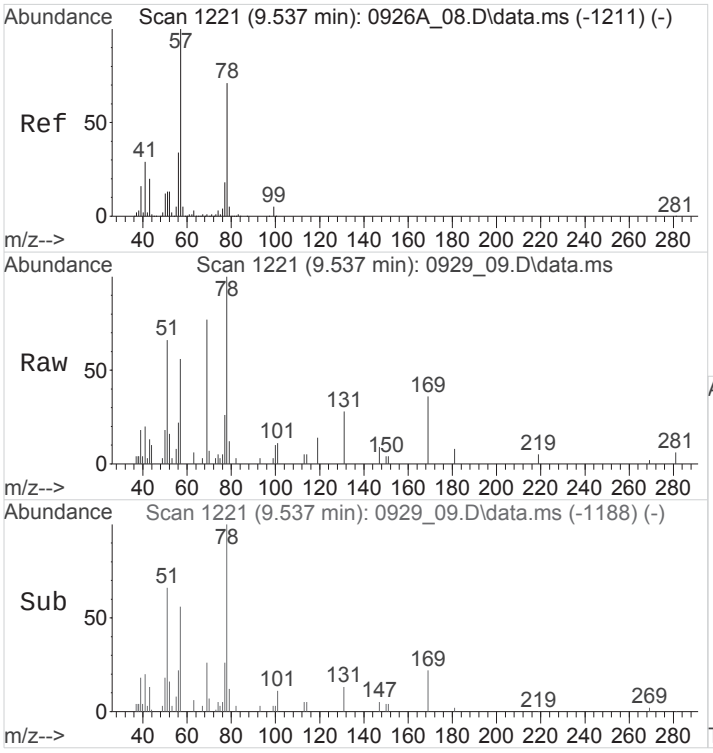


#29
2-Butanone (MEK)
Concen: 2.0356698 ppbv
RT: 8.617 min Scan# 1070
Delta R.T. 0.016 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 72 Resp: 78386

Ion	Ratio	Lower	Upper
72	100		
57	33.0	25.6	38.4

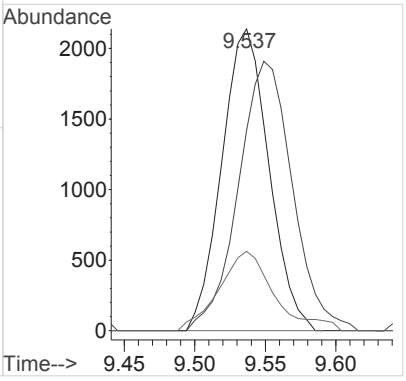


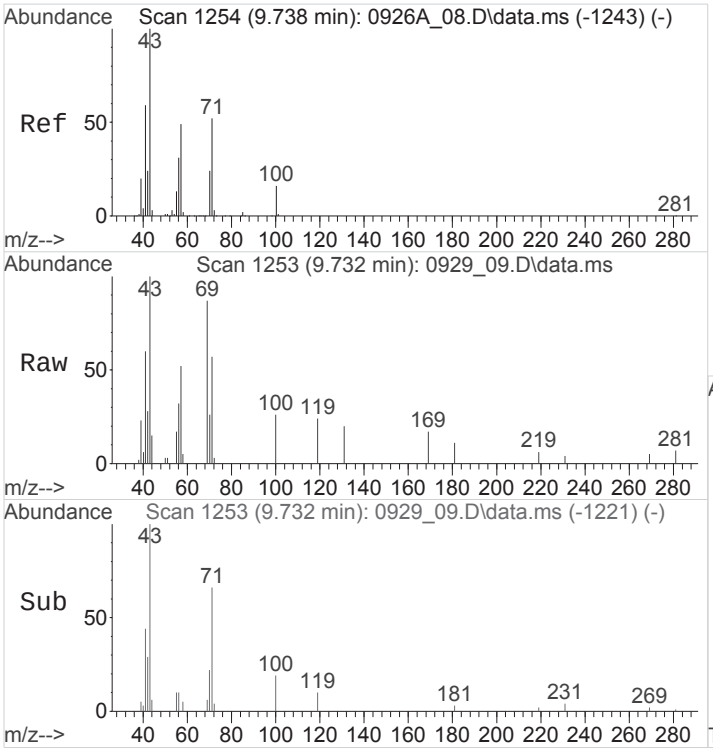


#38
Benzene
Concen: 0.1990653 ppbv
RT: 9.538 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 78 Resp: 49682

Ion	Ratio	Lower	Upper
78	100		
51	102.5	15.4	23.0#
77	0.0	19.9	29.9#

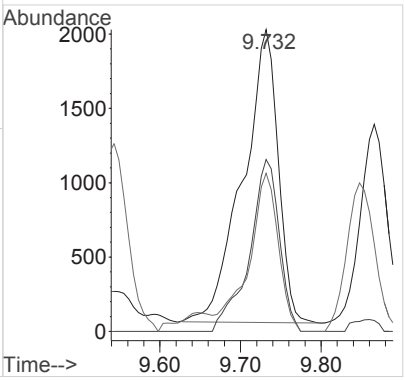


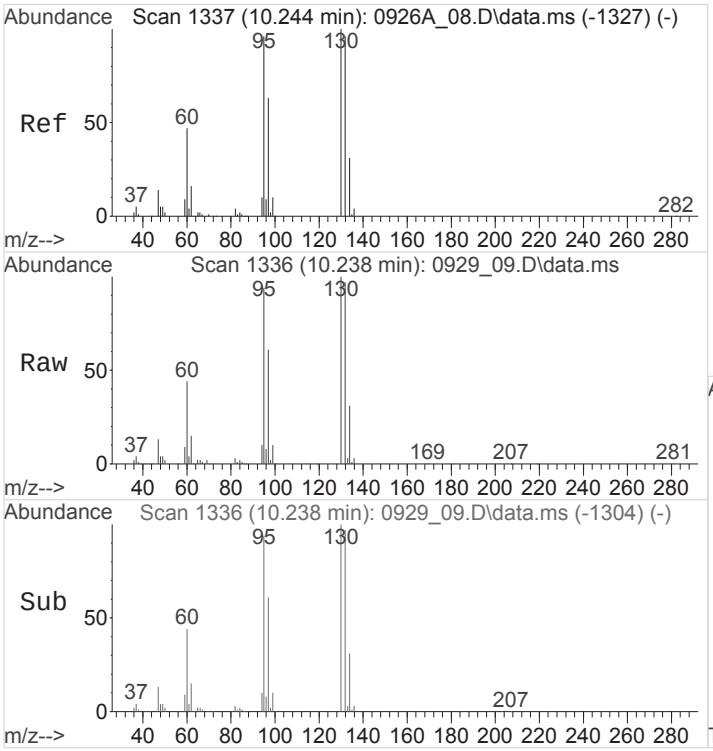


#40
Heptane
Concen: 0.3471252 ppbv
RT: 9.734 min Scan# 1253
Delta R.T. -0.003 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 59825

Ion	Ratio	Lower	Upper
43	100		
71	49.7	41.4	62.0
57	0.0	39.3	58.9#

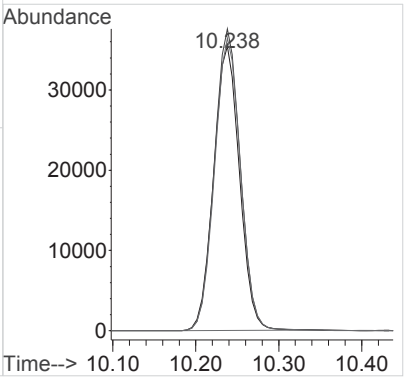


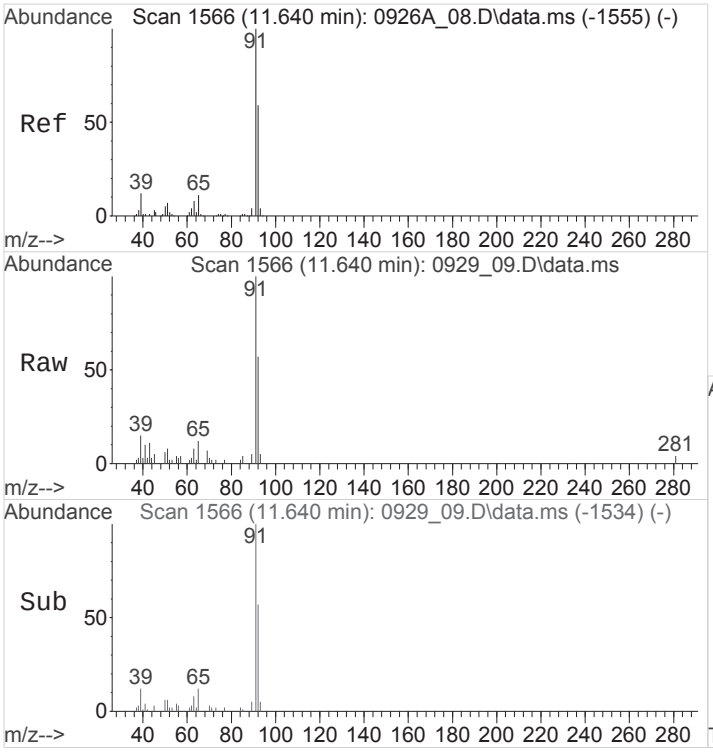


#41
Trichloroethene
Concen: 7.8971454 ppbv
RT: 10.240 min Scan# 1336
Delta R.T. -0.002 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 95 Resp: 767744

Ion	Ratio	Lower	Upper
95	100		
130	105.7	81.6	122.4
132	102.8	77.8	116.6

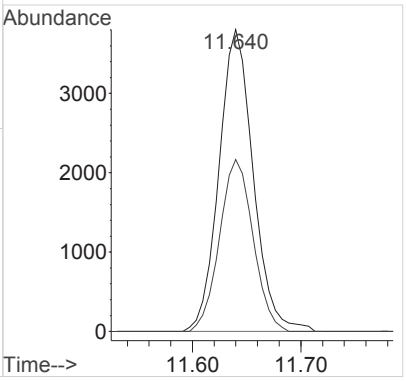


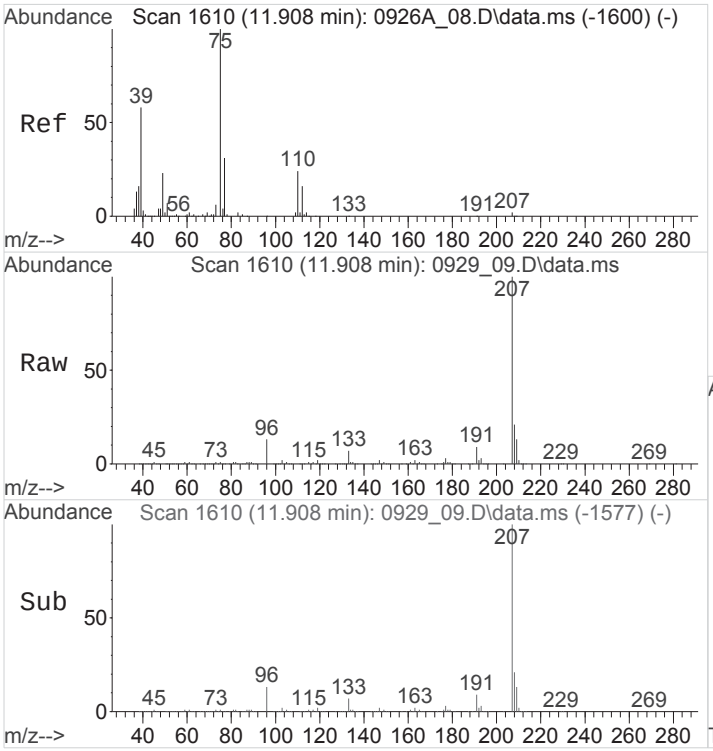


#50
Toluene
Concen: 0.2809659 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 83639

Ion	Ratio	Lower	Upper
91	100		
92	55.8	46.6	70.0

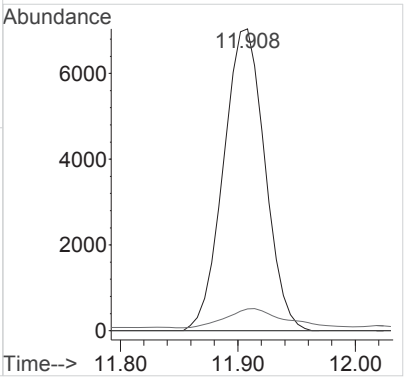


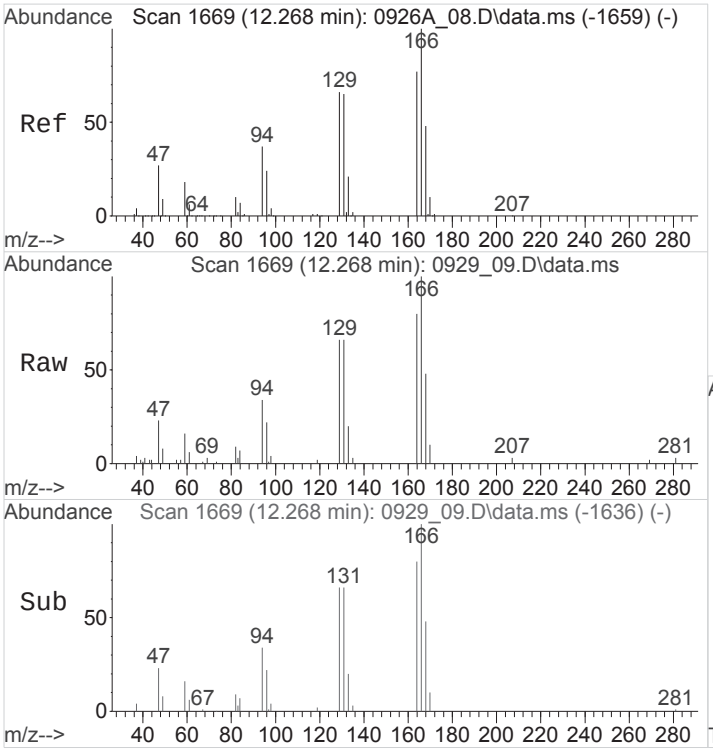


#51
trans-1,3-Dichloropropene
Concen: 1.5151928 ppbv
RT: 11.908 min Scan# 1610
Delta R.T. 0.001 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 75 Resp: 172128

Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.9	28.3#
39	0.0	46.6	70.0#

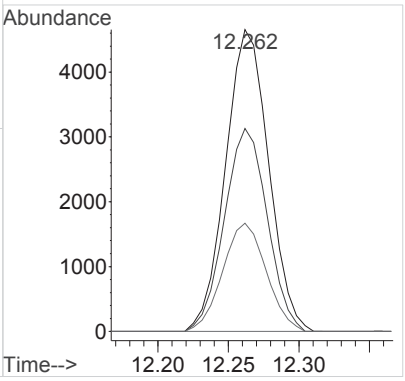


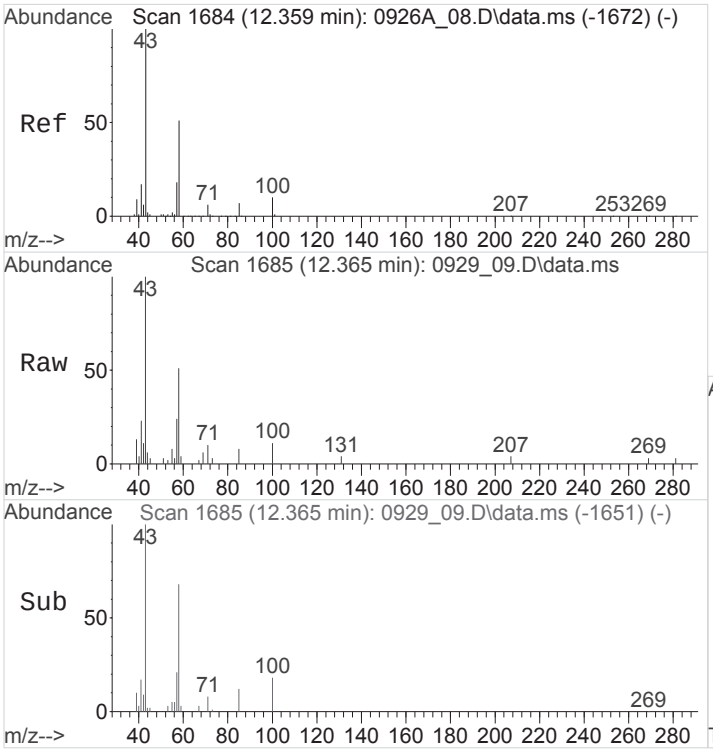


#53
Tetrachloroethene
Concen: 0.7875693 ppbv
RT: 12.266 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion:166 Resp: 98933

Ion	Ratio	Lower	Upper
166	100		
129	67.0	55.0	82.6
94	36.3	31.3	46.9

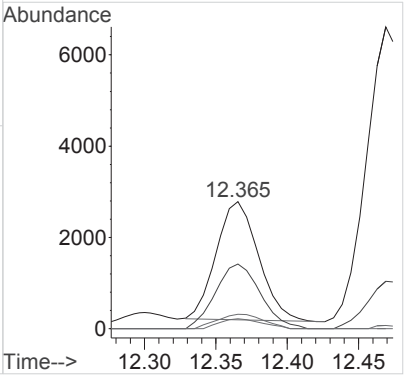


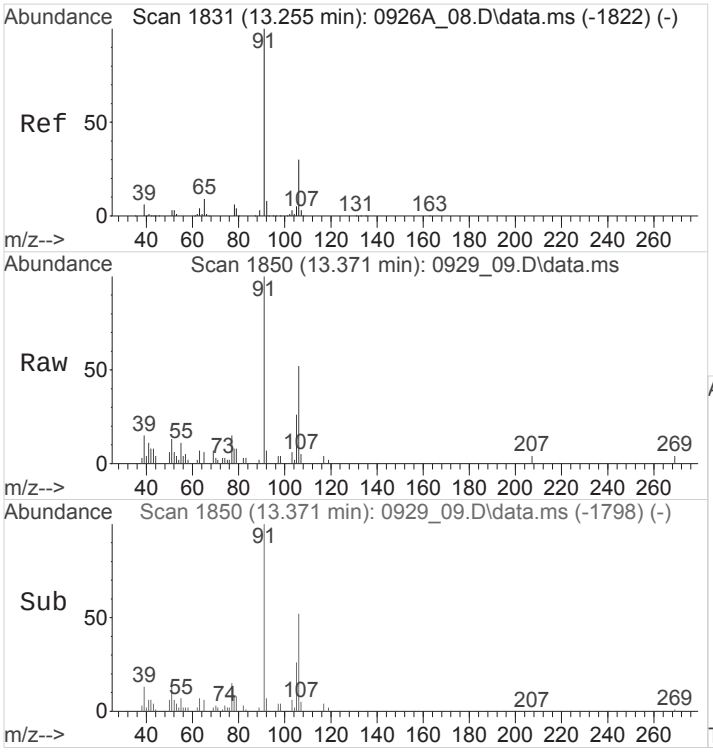


#54
Methyl Butyl Ketone
Concen: 0.3139929 ppbv
RT: 12.367 min Scan# 1685
Delta R.T. 0.009 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 43 Resp: 53495

Ion	Ratio	Lower	Upper
43	100		
58	57.9	41.0	61.4
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

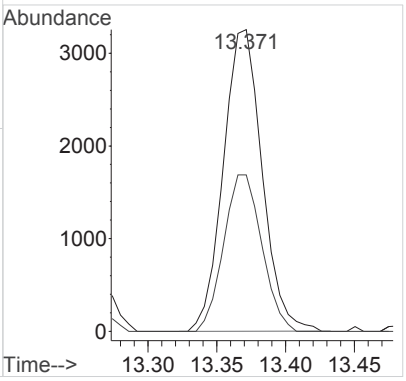


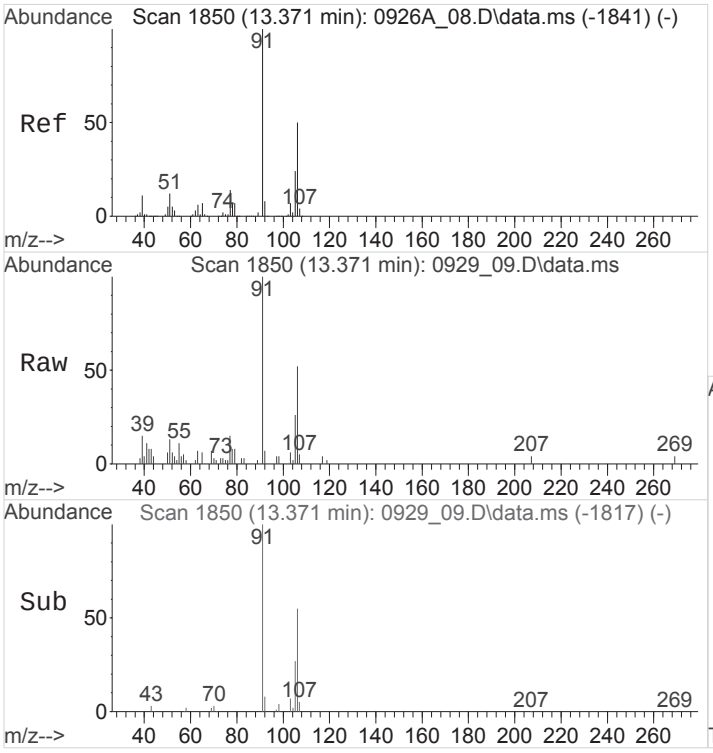


#59
Ethylbenzene
Concen: 0.1930468 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. 0.114 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 63850

Ion	Ratio	Lower	Upper
91	100		
106	50.9	24.3	36.5#

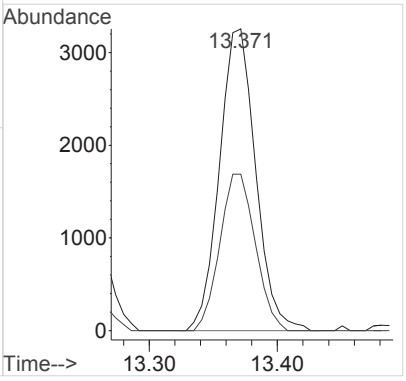


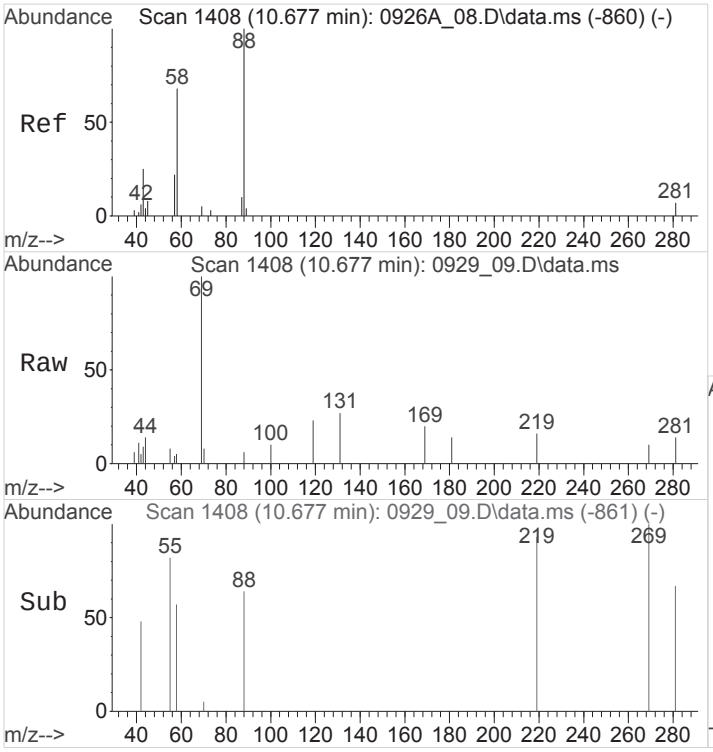


#60
M&P-Xylene
Concen: 0.2558040 ppbv
RT: 13.371 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion: 91 Resp: 63941

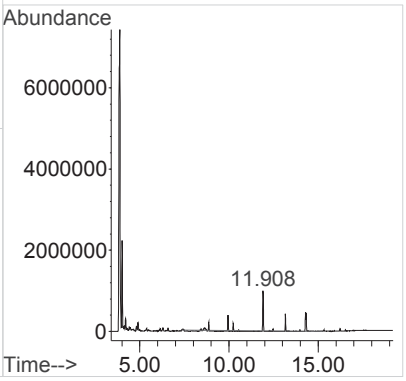
Ion	Ratio	Lower	Upper
91	100		
106	50.8	39.8	59.6





#84
TPH (GC/MS) Low Fraction
Concen: 82.0335142 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_09.D
Acq: 29 Sep 2016 1:44 pm

Tgt Ion:TIC Resp:48230724



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_10.D
Acq On : 29 Sep 2016 2:29 pm
Operator : 564
Sample : L861822-13 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

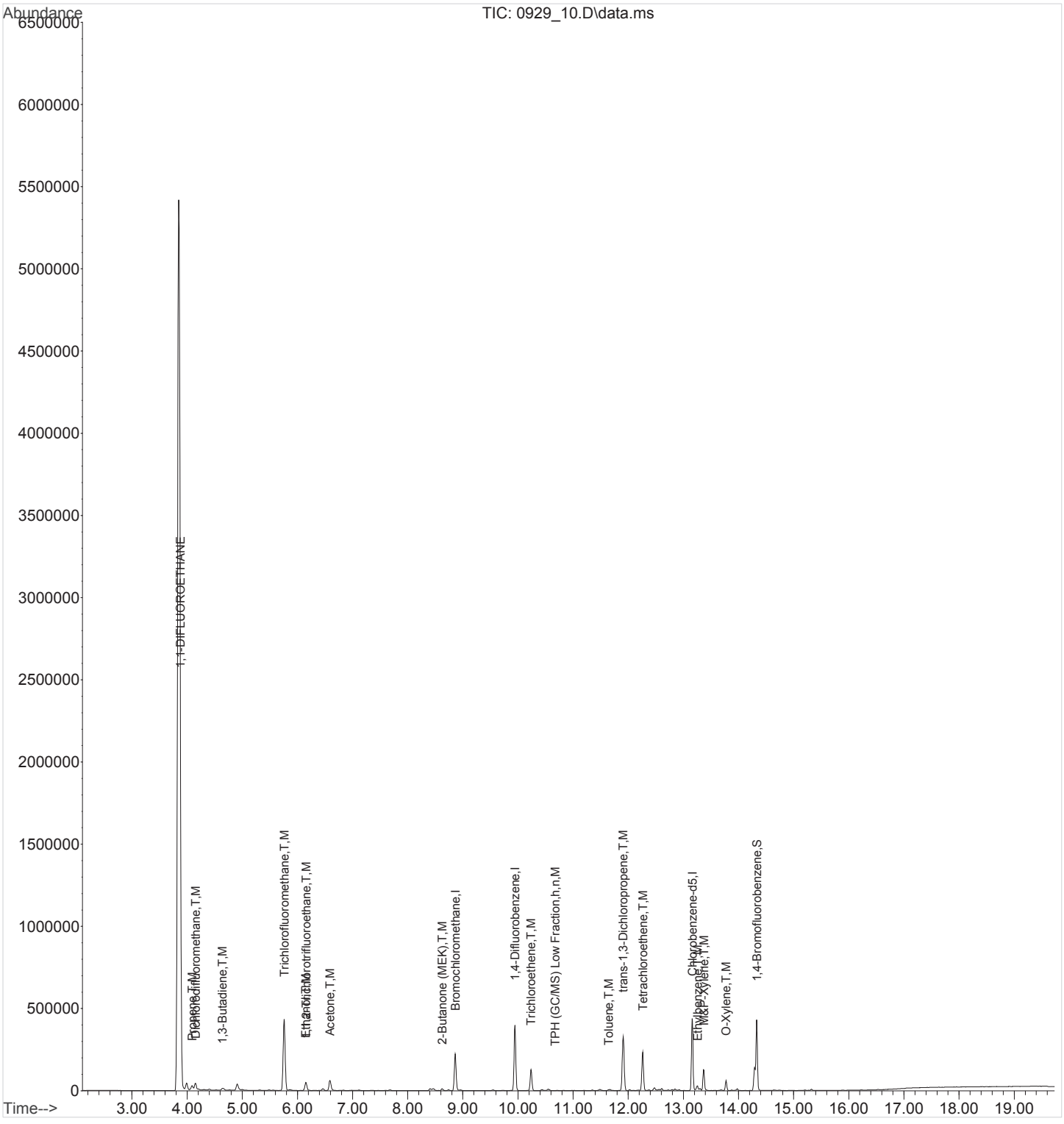
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.865	130	971166	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.948	114	3850842	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	2788925	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1573263	3.6309658	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 90.77%			
Target Compounds						Qvalue
2) Propene	4.091	41	145784	21.8131611	ppbv	92
3) 1,1-DIFLUOROETHANE	3.880	65	31941	7.5101633	ppbv #	1
4) Dichlorodifluoromethane	4.154	85	484067	37.6811196	ppbv	100
9) 1,3-Butadiene	4.641	39	55332	9.0023960	ppbv #	4
13) Trichlorofluoromethane	5.761	101	4687738	378.0520562	ppbv	100
14) Ethanol	6.156	45	150557	134.4344081	ppbv #	59
15) 1,1,2-Trichlorotrifluo...	6.157	101	48700	4.2267619	ppbv #	19
17) Acetone	6.591	43	1083255	54.1900742	ppbv	99
29) 2-Butanone (MEK)	8.628	72	43388	14.0143682	ppbv #	43
41) Trichloroethene	10.239	95	490349	62.6922295	ppbv	94
50) Toluene	11.643	91	39462	1.6477135	ppbv #	22
51) trans-1,3-Dichloropropene	11.910	75	55542	6.0770555	ppbv #	30
53) Tetrachloroethene	12.266	166	907434	89.7883832	ppbv	98
59) Ethylbenzene	13.258	91	198254	7.3774100	ppbv #	44
60) M&P-Xylene	13.370	91	786340	38.7186016	ppbv	99
61) O-Xylene	13.776	91	375357	18.1513417	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	18105054m	379.0054766	ppbv	

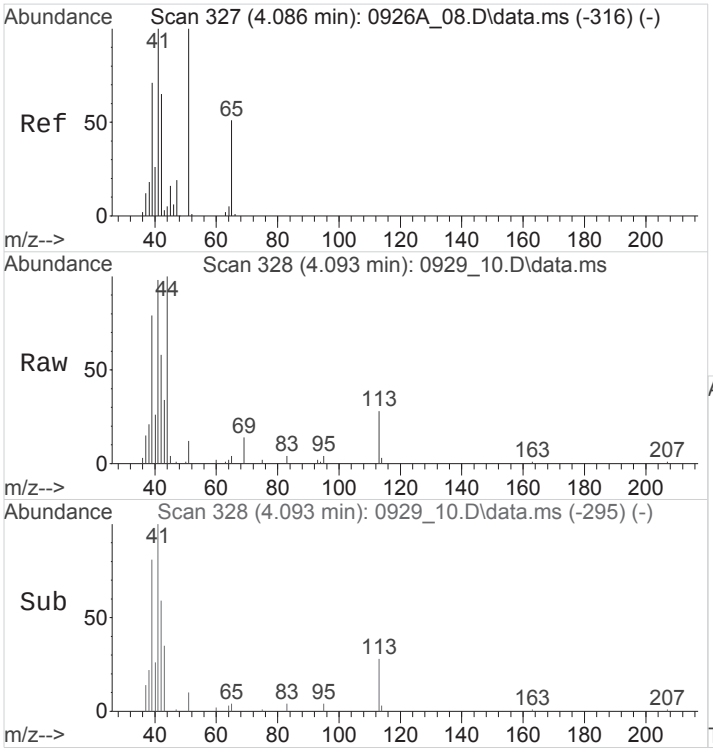
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_10.D
Acq On : 29 Sep 2016 2:29 pm
Operator : 564
Sample : L861822-13 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:42 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

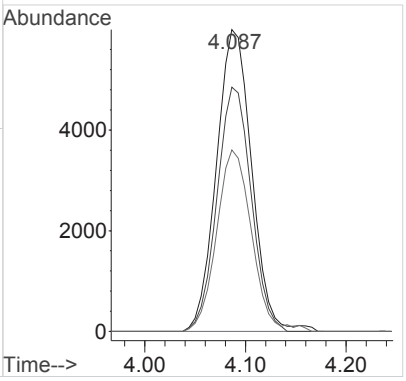


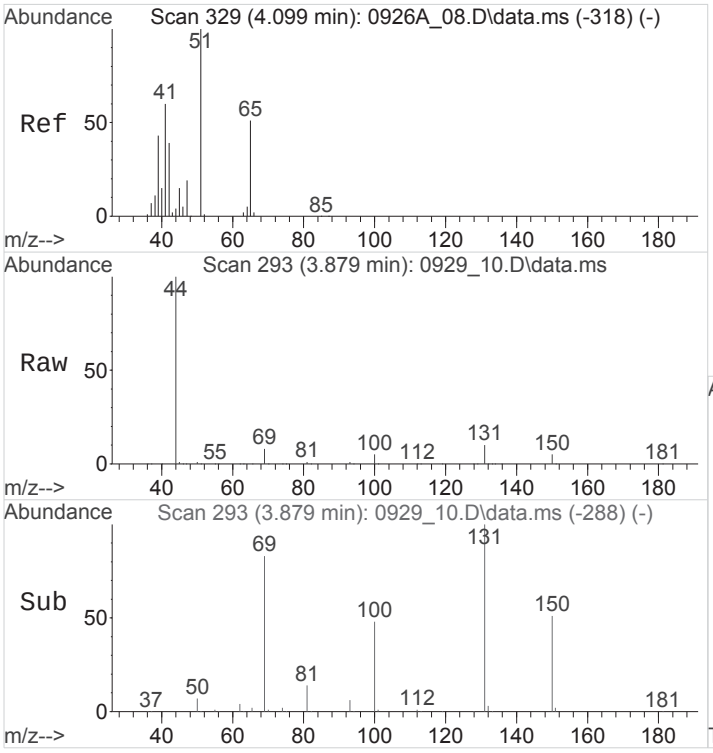


#2
Propene
Concen: 21.8131611 ppbv
RT: 4.091 min Scan# 328
Delta R.T. 0.002 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 41 Resp: 145784

Ion	Ratio	Lower	Upper
41	100		
39	78.6	56.5	84.7
42	59.7	52.2	78.4

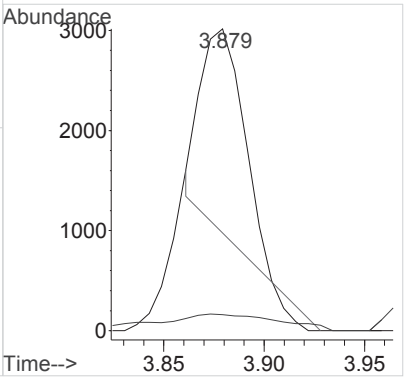


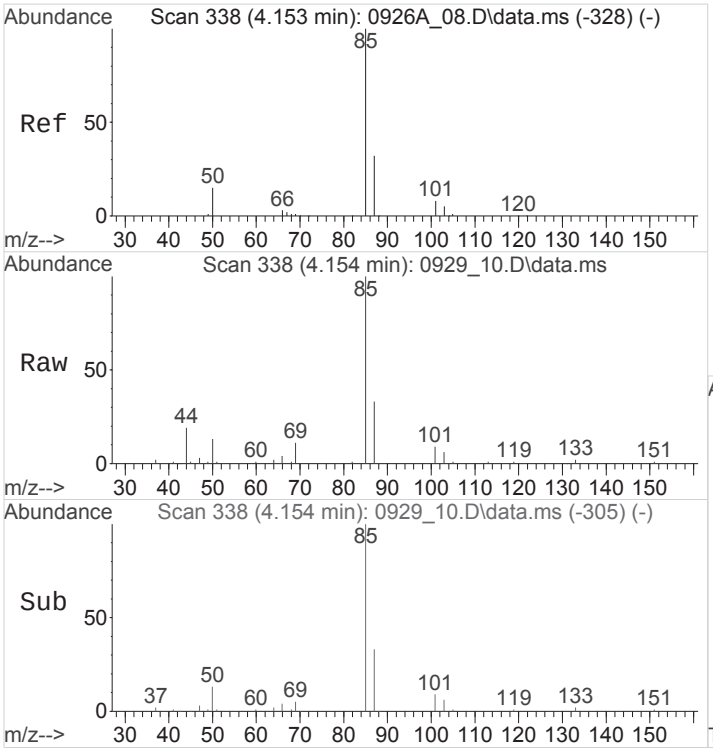


#3
1,1-DIFLUOROETHANE
Concen: 7.5101633 ppbv
RT: 3.880 min Scan# 293
Delta R.T. -0.219 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 65 Resp: 31941

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

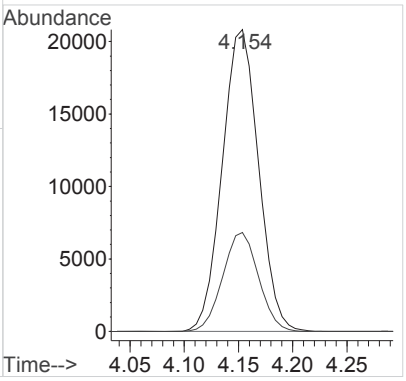


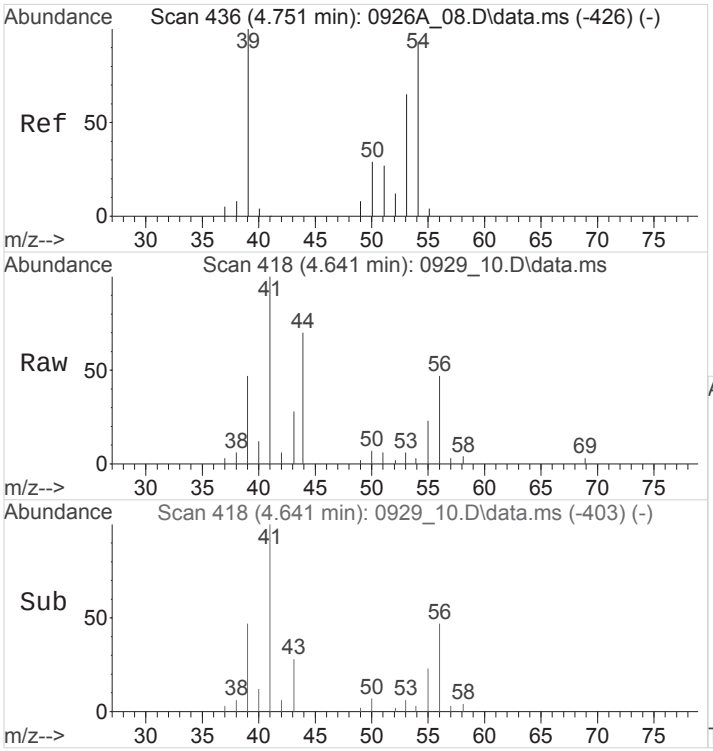


#4
Dichlorodifluoromethane
Concen: 37.6811196 ppbv
RT: 4.154 min Scan# 338
Delta R.T. 0.002 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 85 Resp: 484067

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.8	38.6

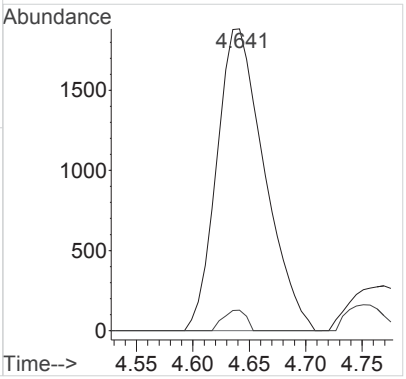


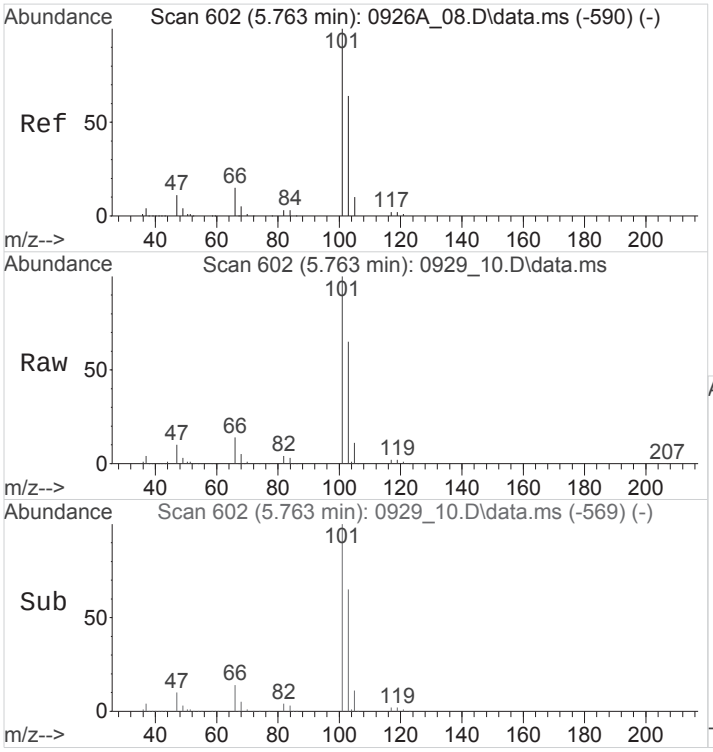


#9
1,3-Butadiene
Concen: 9.0023960 ppbv
RT: 4.641 min Scan# 418
Delta R.T. -0.110 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 39 Resp: 55332

Ion	Ratio	Lower	Upper
39	100		
54	0.0	73.4	110.0#

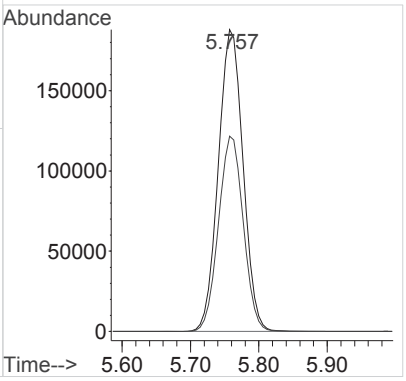


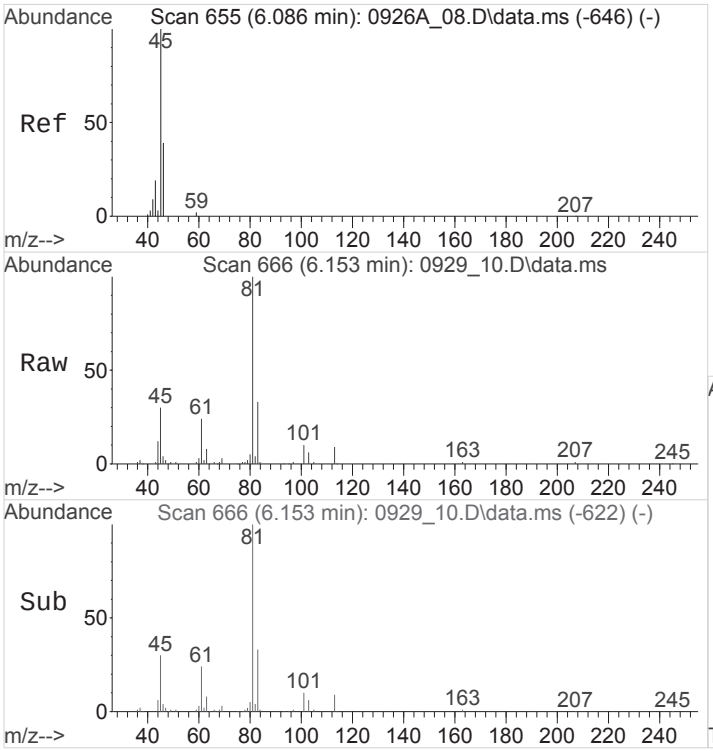


#13
Trichlorofluoromethane
Concen: 378.0520562 ppbv
RT: 5.761 min Scan# 602
Delta R.T. 0.000 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion:101 Resp: 4687738

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.7	77.5

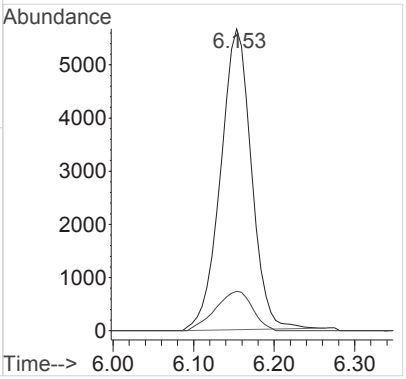


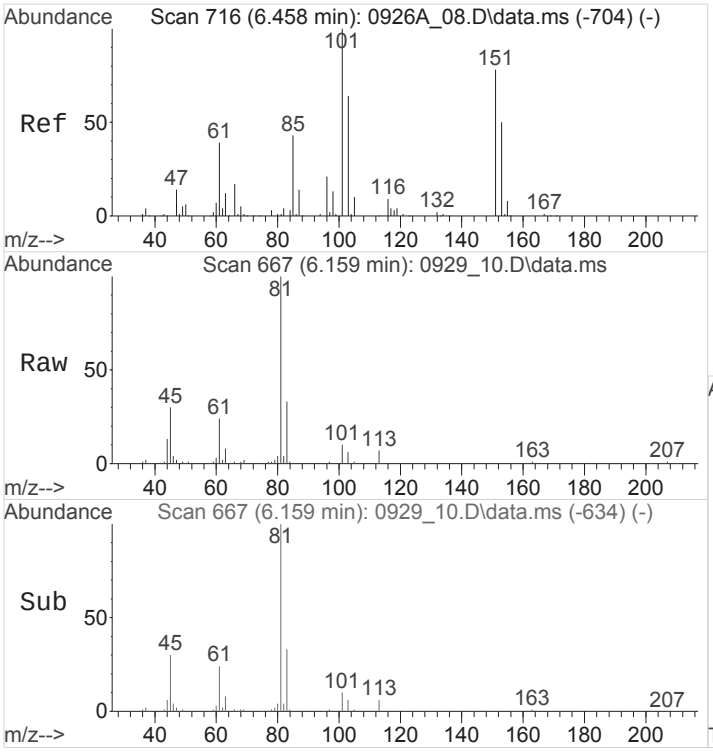


#14
Ethanol
Concen: 134.4344081 ppbv
RT: 6.156 min Scan# 666
Delta R.T. 0.068 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 45 Resp: 150557

Ion	Ratio	Lower	Upper
45	100		
46	15.7	33.0	49.4#

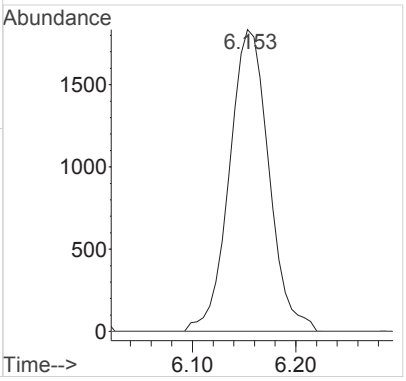


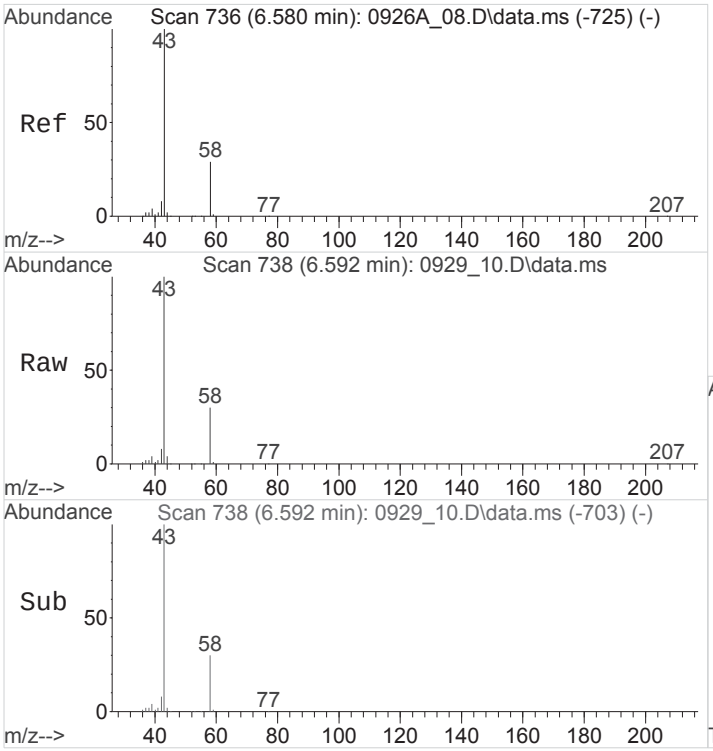


#15
1,1,2-Trichlorotrifluoroethane
Concen: 4.2267619 ppbv
RT: 6.157 min Scan# 667
Delta R.T. -0.300 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion:101 Resp: 48700

Ion	Ratio	Lower	Upper
101	100		
151	0.0	61.6	92.4#
85	0.0	34.5	51.7#

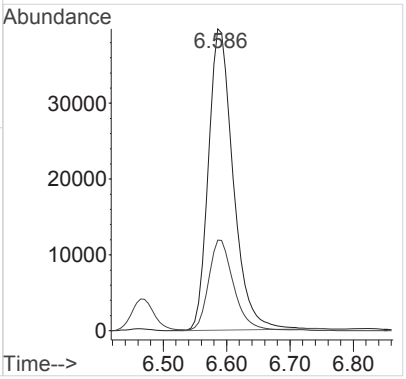


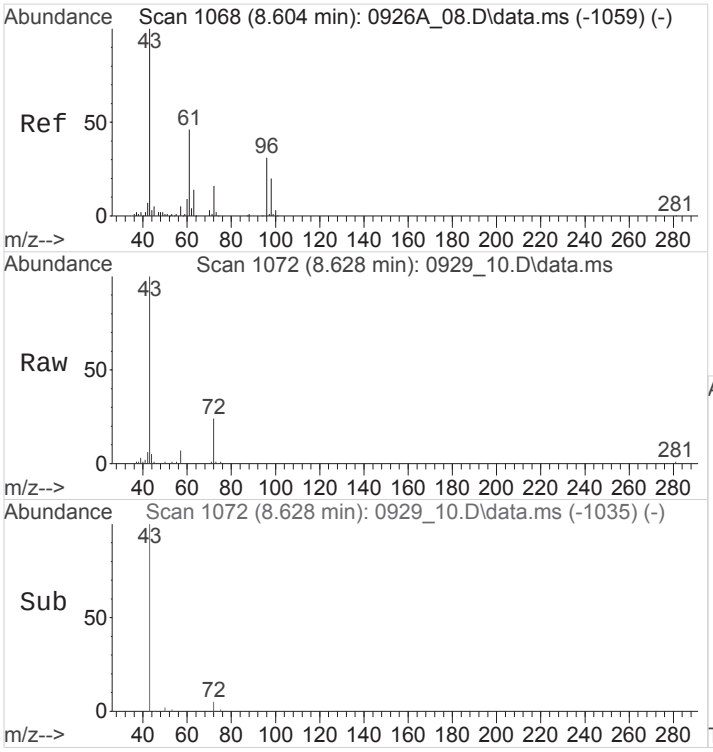


#17
Acetone
Concen: 54.1900742 ppbv
RT: 6.591 min Scan# 738
Delta R.T. 0.012 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 43 Resp: 1083255

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.1	34.7

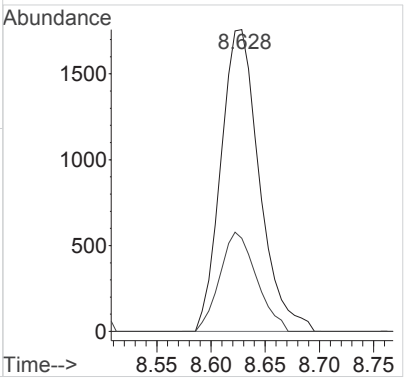


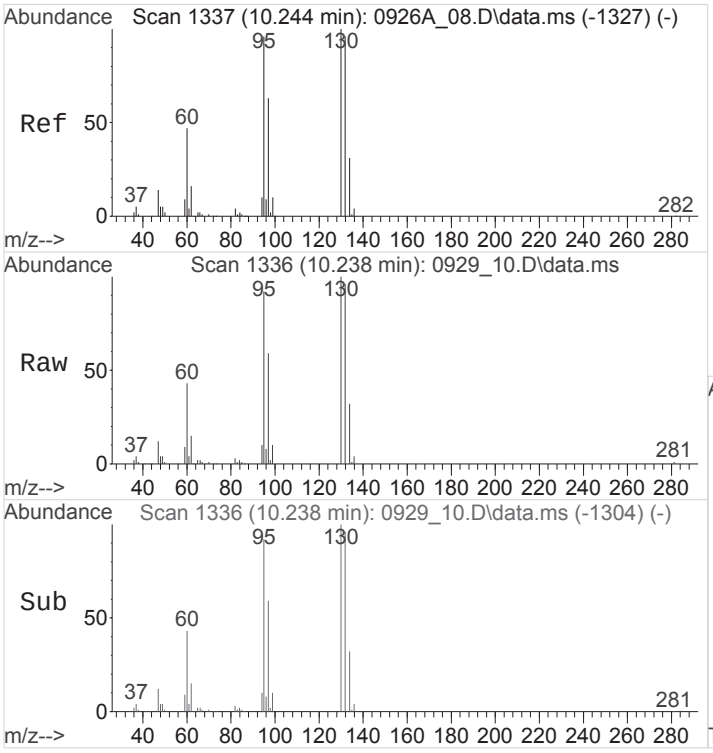


#29
2-Butanone (MEK)
Concen: 14.0143682 ppbv
RT: 8.628 min Scan# 1072
Delta R.T. 0.027 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 72 Resp: 43388

Ion	Ratio	Lower	Upper
72	100		
57	0.0	25.6	38.4#

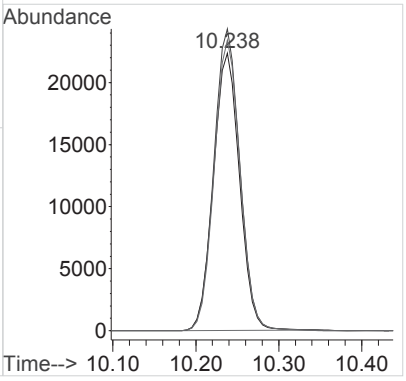


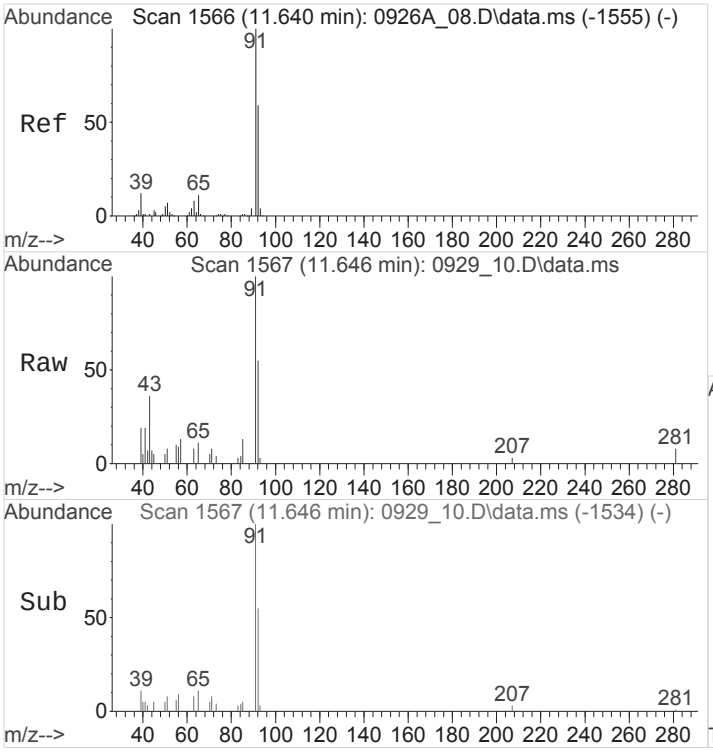


#41
Trichloroethene
Concen: 62.6922295 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.002 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 95 Resp: 490349

Ion	Ratio	Lower	Upper
95	100		
130	107.6	81.6	122.4
132	103.3	77.8	116.6

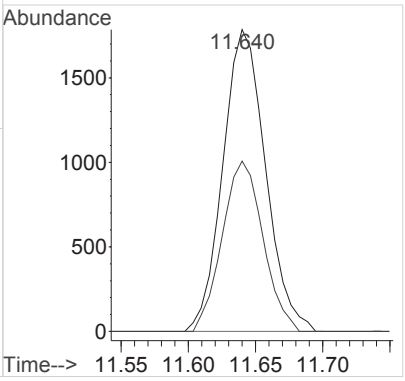


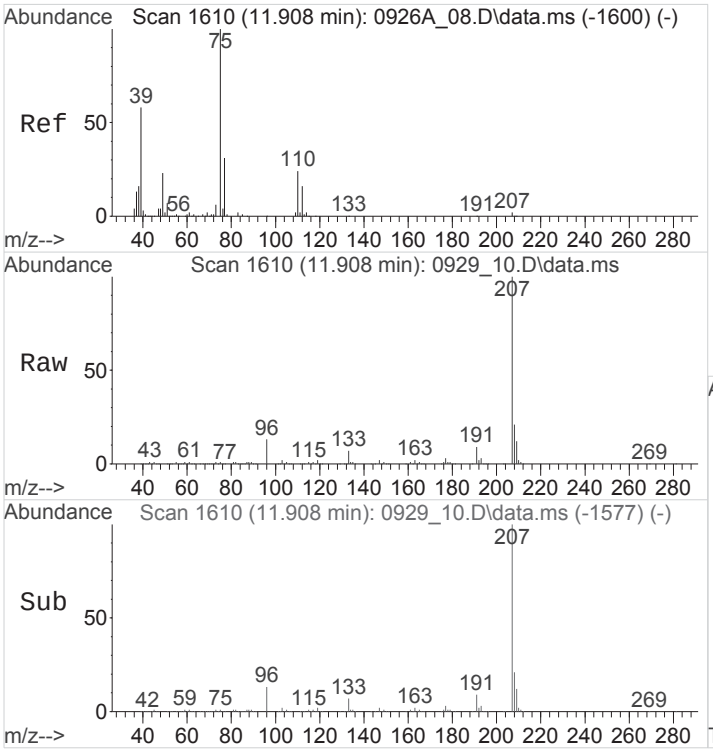


#50
Toluene
Concen: 1.6477135 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 91 Resp: 39462

Ion	Ratio	Lower	Upper
91	100		
92	0.0	46.6	70.0#

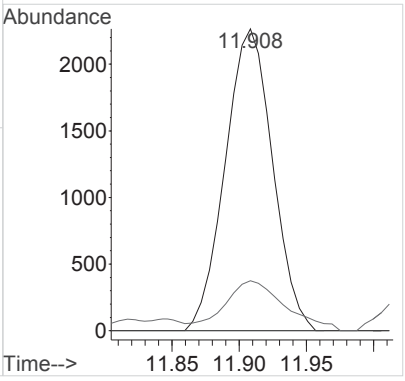


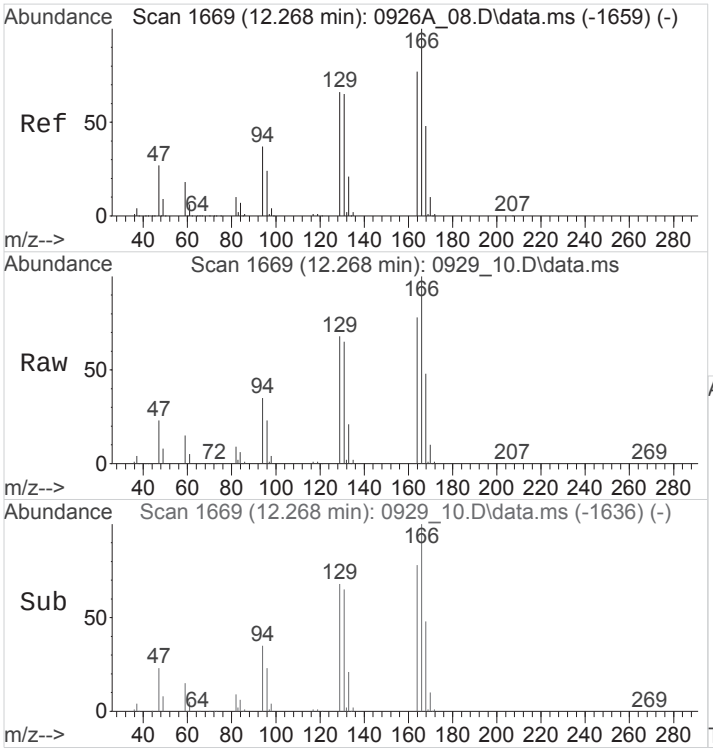


#51
trans-1,3-Dichloropropene
Concen: 6.0770555 ppbv
RT: 11.910 min Scan# 1610
Delta R.T. 0.003 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 75 Resp: 55542

Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.9	28.3#
39	0.0	46.6	70.0#

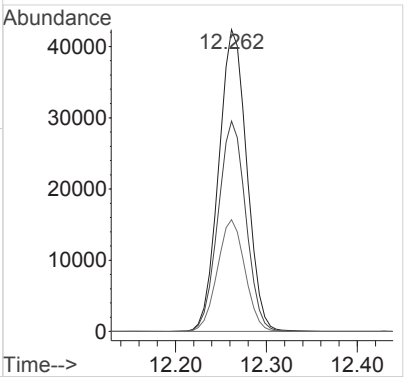


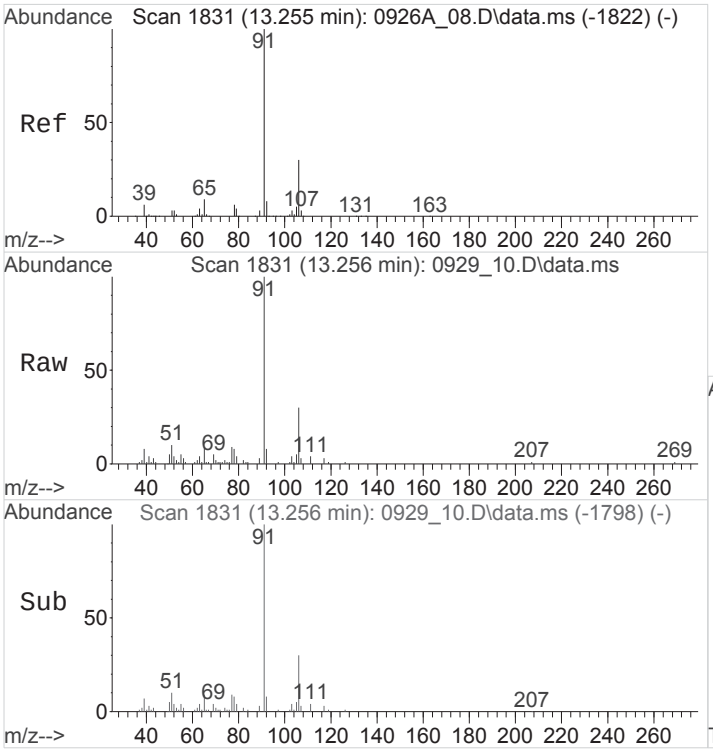


#53
Tetrachloroethene
Concen: 89.7883832 ppbv
RT: 12.266 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion:166 Resp: 907434

Ion	Ratio	Lower	Upper
166	100		
129	69.0	55.0	82.6
94	36.4	31.3	46.9

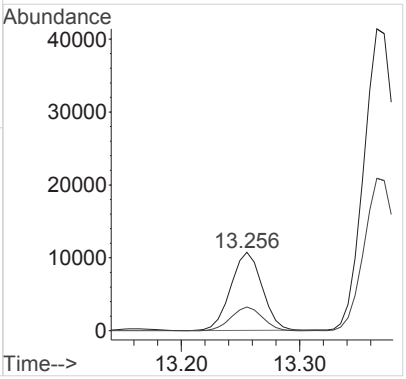


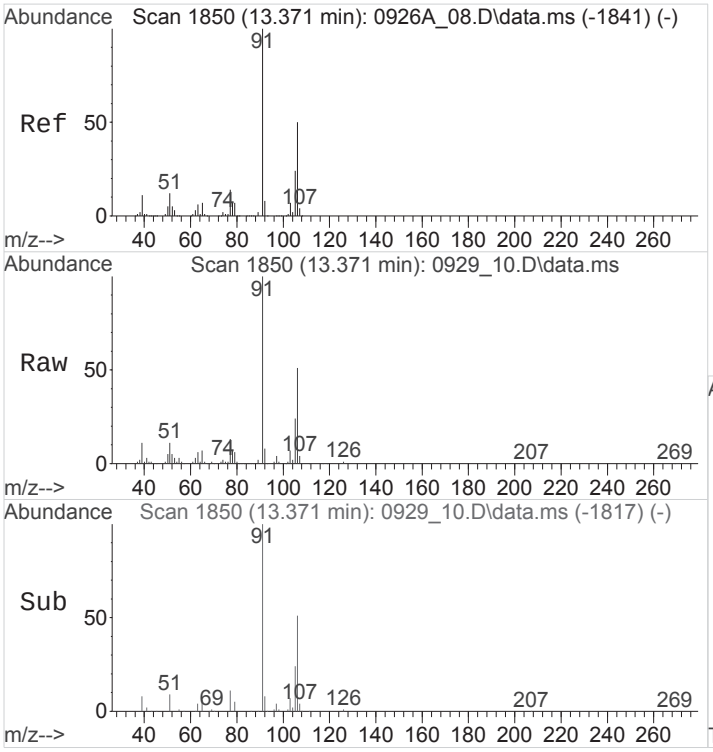


#59
Ethylbenzene
Concen: 7.3774100 ppbv
RT: 13.258 min Scan# 1831
Delta R.T. 0.001 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 91 Resp: 198254

Ion	Ratio	Lower	Upper
91	100		
106	0.0	24.3	36.5#

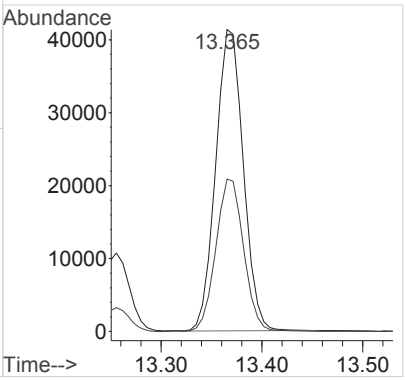


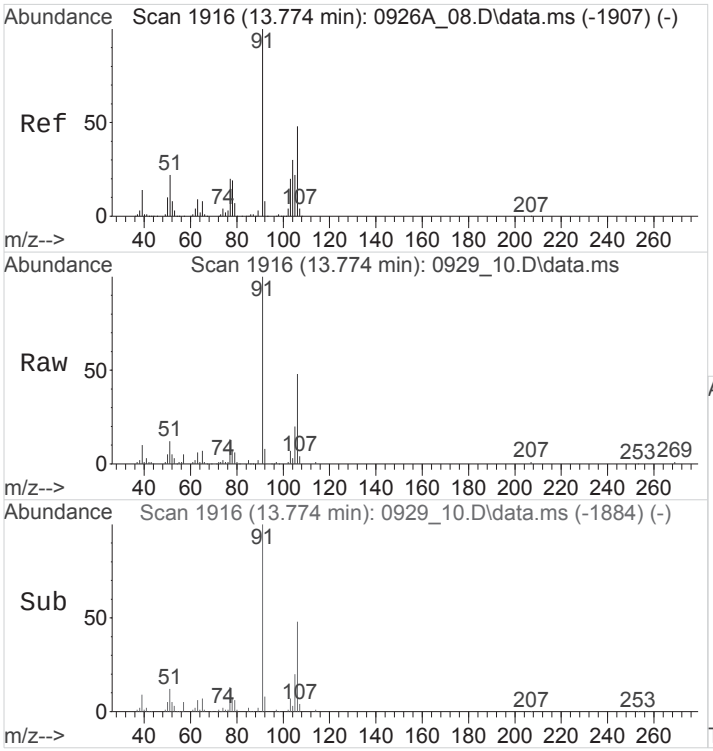


#60
M&P-Xylene
Concen: 38.7186016 ppbv
RT: 13.370 min Scan# 1850
Delta R.T. -0.001 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 91 Resp: 786340

Ion	Ratio	Lower	Upper
91	100		
106	50.5	39.8	59.6

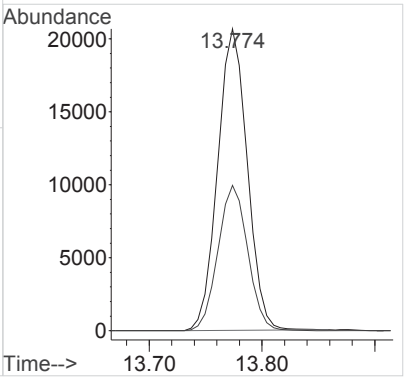


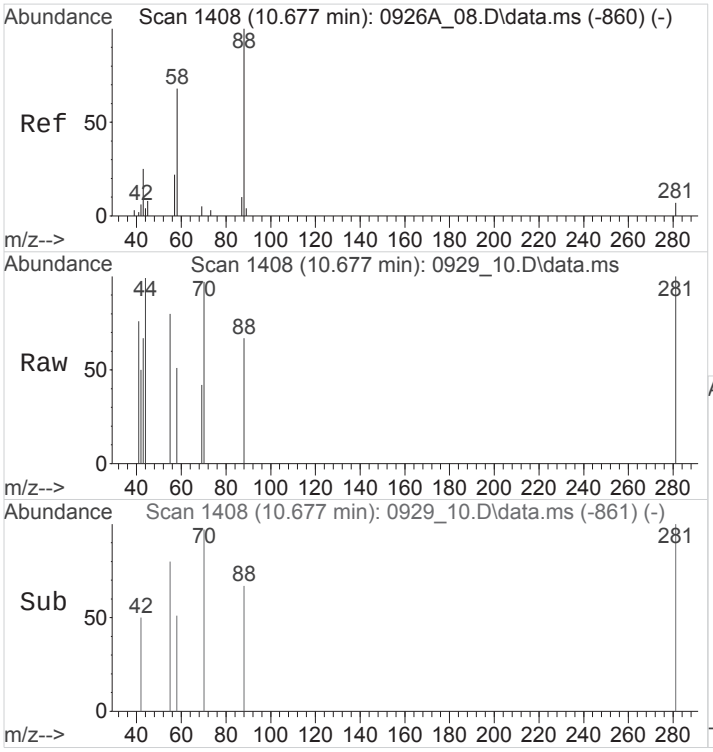


#61
O-Xylene
Concen: 18.1513417 ppbv
RT: 13.776 min Scan# 1916
Delta R.T. -0.000 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion: 91 Resp: 375357

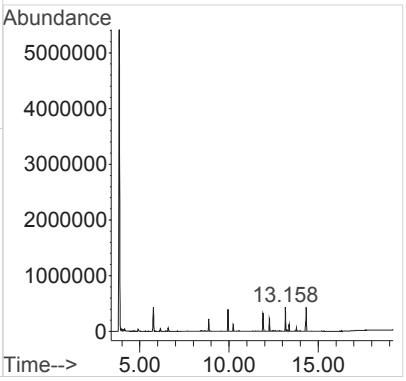
Ion	Ratio	Lower	Upper
91	100		
106	48.6	38.2	57.2





#84
TPH (GC/MS) Low Fraction
Concen: 379.0054766 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_10.D
Acq: 29 Sep 2016 2:29 pm

Tgt Ion:TIC Resp:18105054



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_11.D
Acq On : 29 Sep 2016 3:13 pm
Operator : 564
Sample : L861822-06 20x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 20
InstName : AIRMS2

Quant Time: Sep 30 06:14:47 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

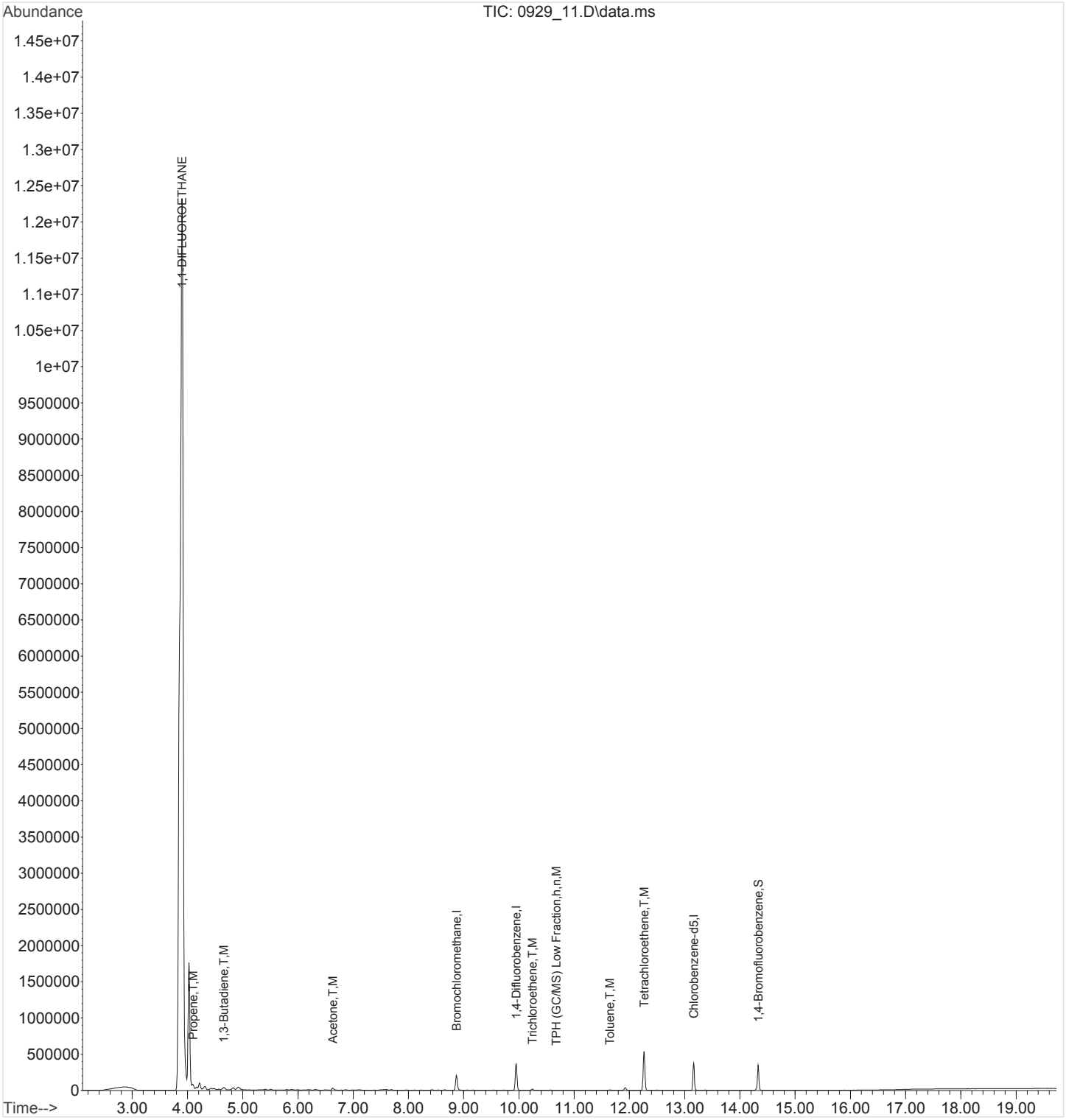
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.872	130	895729	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.952	114	3529676	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.165	117	2389235	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1268814	3.4181945	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 85.45%			
Target Compounds						Qvalue
2) Propene	4.101	41	358418	46.5164306	ppbv	91
3) 1,1-DIFLUOROETHANE	3.905	65	1572061	320.6138779	ppbv #	1
9) 1,3-Butadiene	4.657	39	136778	19.3021623	ppbv #	4
17) Acetone	6.630	43	528894	22.9490538	ppbv	99
41) Trichloroethene	10.244	95	70809	7.9014744	ppbv	99
50) Toluene	11.646	91	56634	2.0639096	ppbv	100
53) Tetrachloroethene	12.268	166	2119113	183.0079826	ppbv	98
84) TPH (GC/MS) Low Fraction	10.675	TIC	13518598m	264.2684358	ppbv	

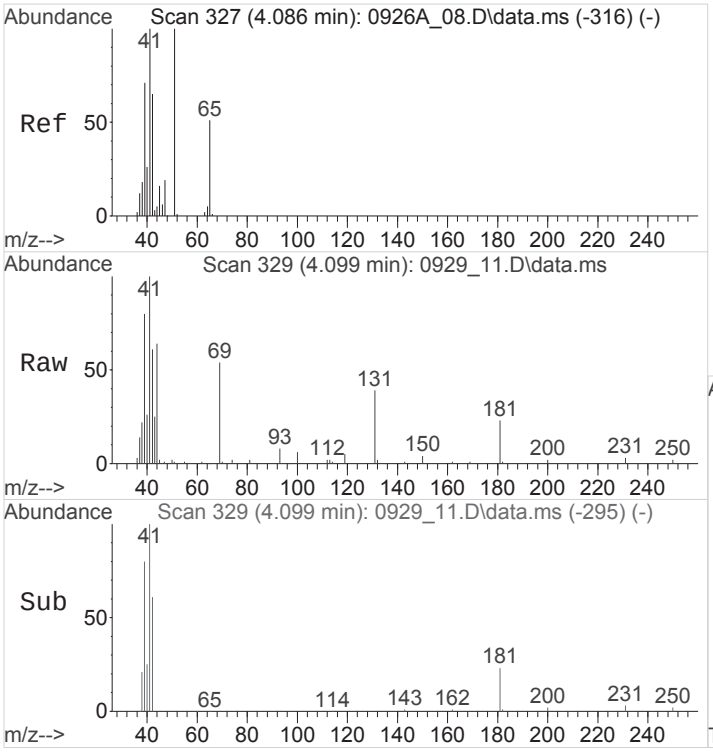
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_11.D
Acq On : 29 Sep 2016 3:13 pm
Operator : 564
Sample : L861822-06 20x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 20
InstName : AIRMS2

Quant Time: Sep 30 06:14:47 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

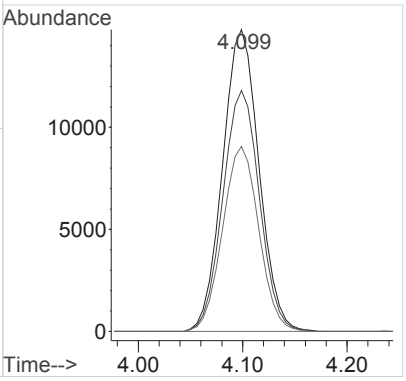


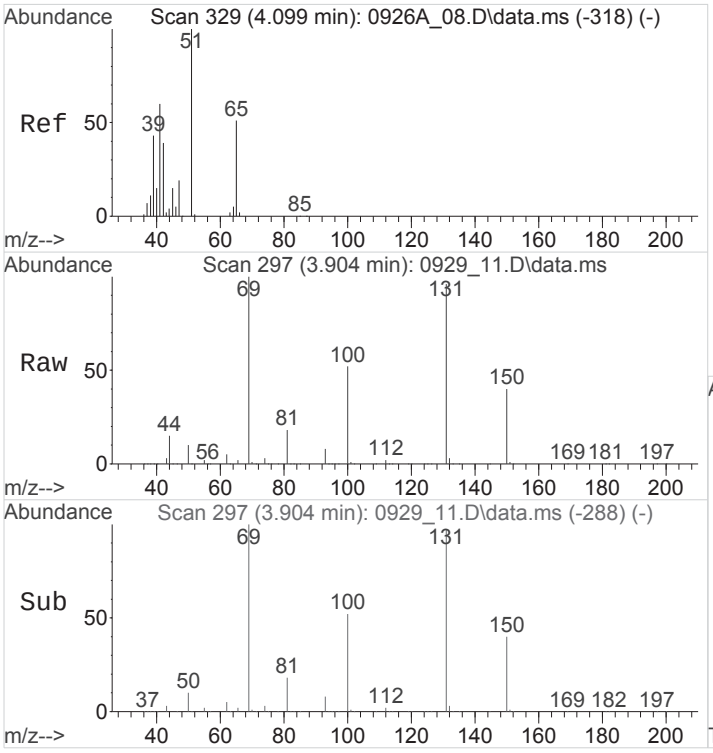


#2
Propene
Concen: 46.5164306 ppbv
RT: 4.101 min Scan# 329
Delta R.T. 0.012 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 41 Resp: 358418

Ion	Ratio	Lower	Upper
41	100		
39	80.4	56.5	84.7
42	61.0	52.2	78.4

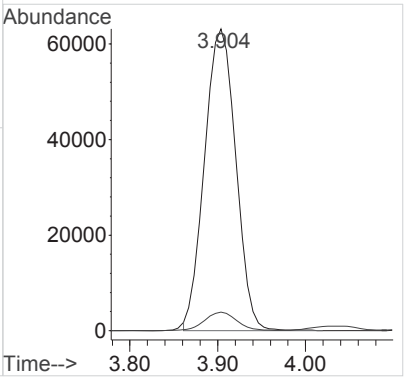


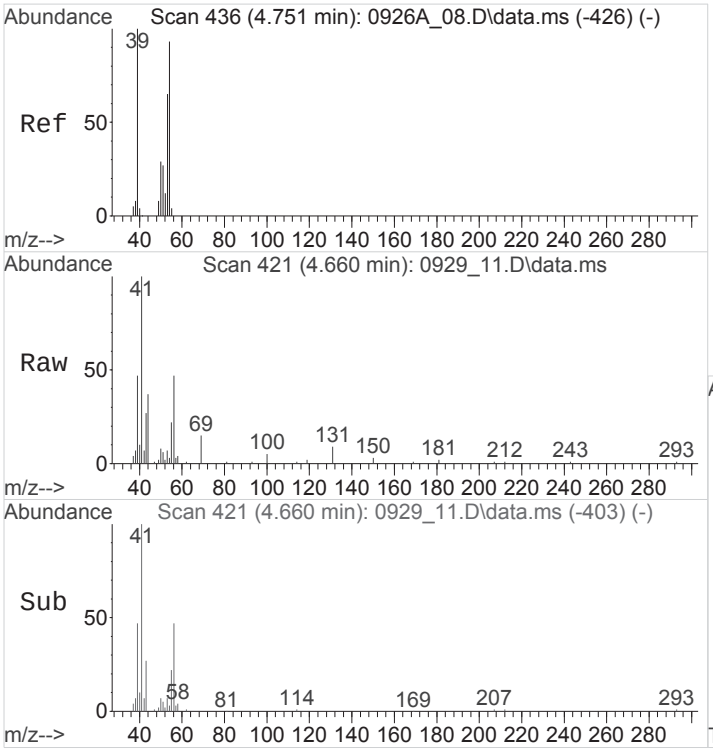


#3
1,1-DIFLUOROETHANE
Concen: 320.6138779 ppbv
RT: 3.905 min Scan# 297
Delta R.T. -0.193 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 65 Resp: 1572061

Ion	Ratio	Lower	Upper
65	100		
51	5.9	154.7	232.1#

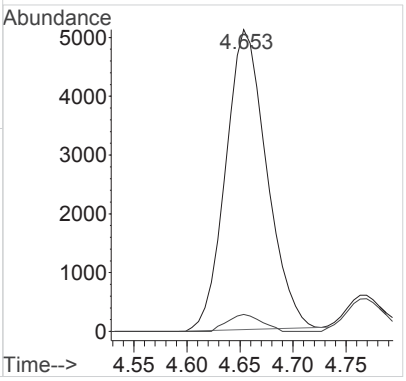


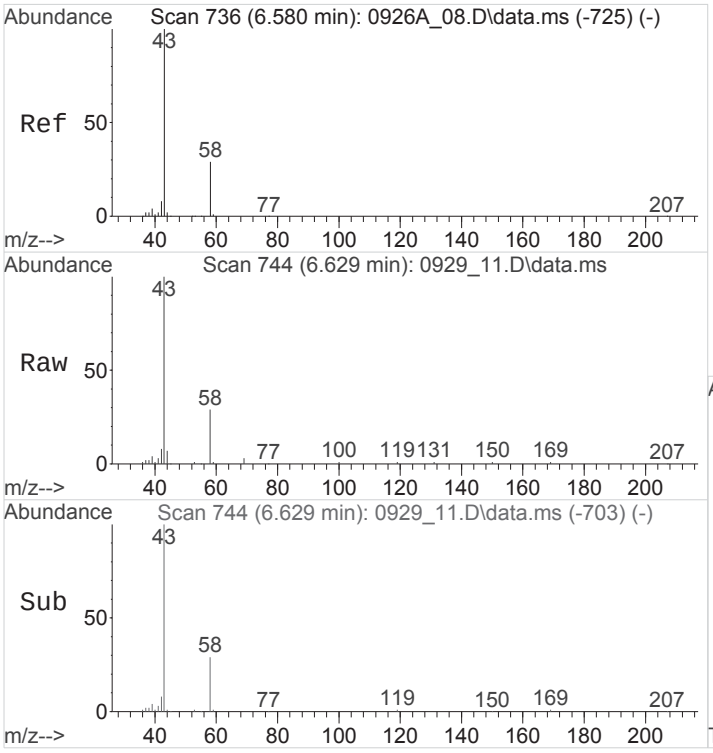


#9
1,3-Butadiene
Concen: 19.3021623 ppbv
RT: 4.657 min Scan# 421
Delta R.T. -0.094 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 39 Resp: 136778

Ion	Ratio	Lower	Upper
39	100		
54	0.0	73.4	110.0#

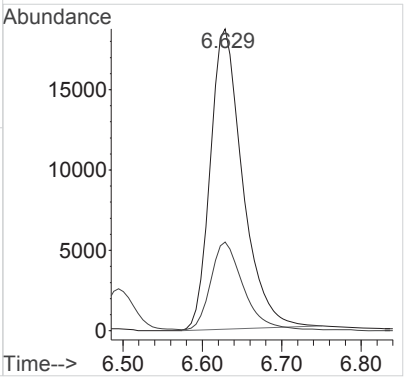


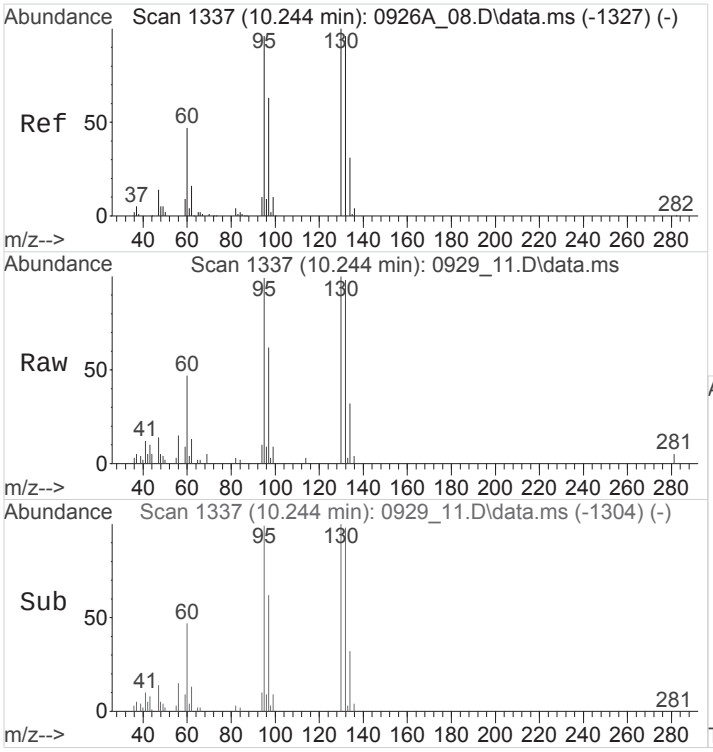


#17
Acetone
Concen: 22.9490538 ppbv
RT: 6.630 min Scan# 744
Delta R.T. 0.051 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 43 Resp: 528894

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7

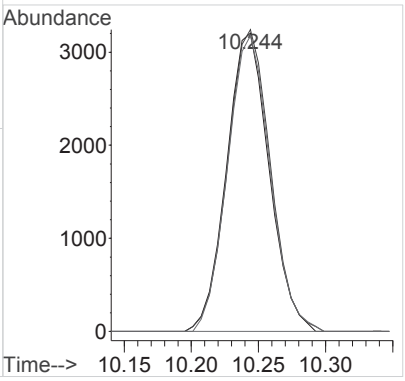


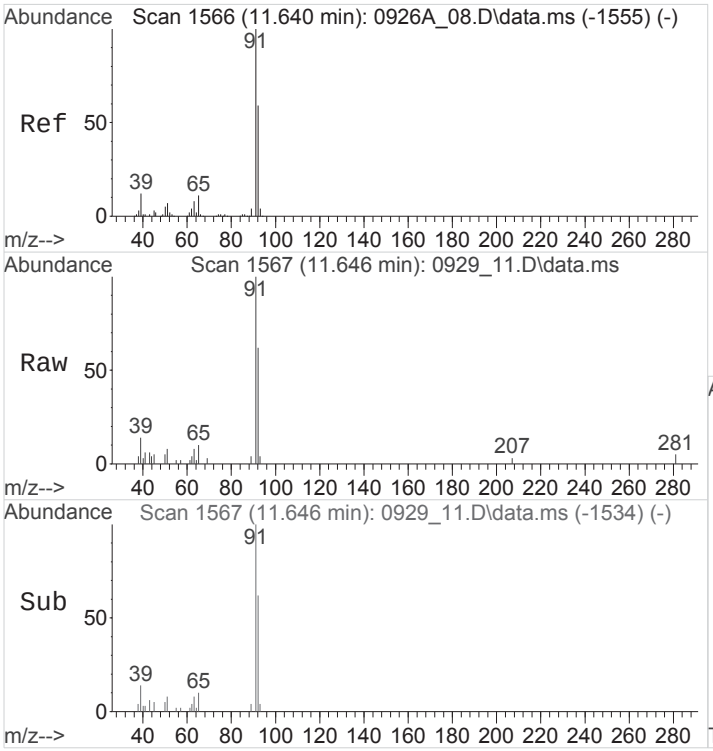


#41
Trichloroethene
Concen: 7.9014744 ppbv
RT: 10.244 min Scan# 1337
Delta R.T. 0.003 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 95 Resp: 70809

Ion	Ratio	Lower	Upper
95	100		
130	101.9	81.6	122.4
132	99.2	77.8	116.6

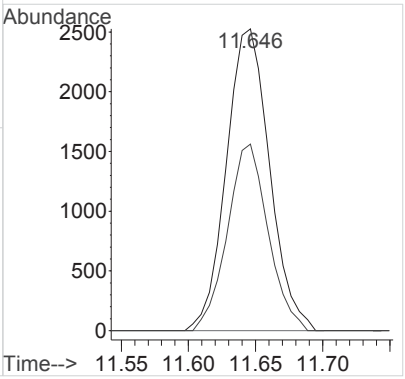


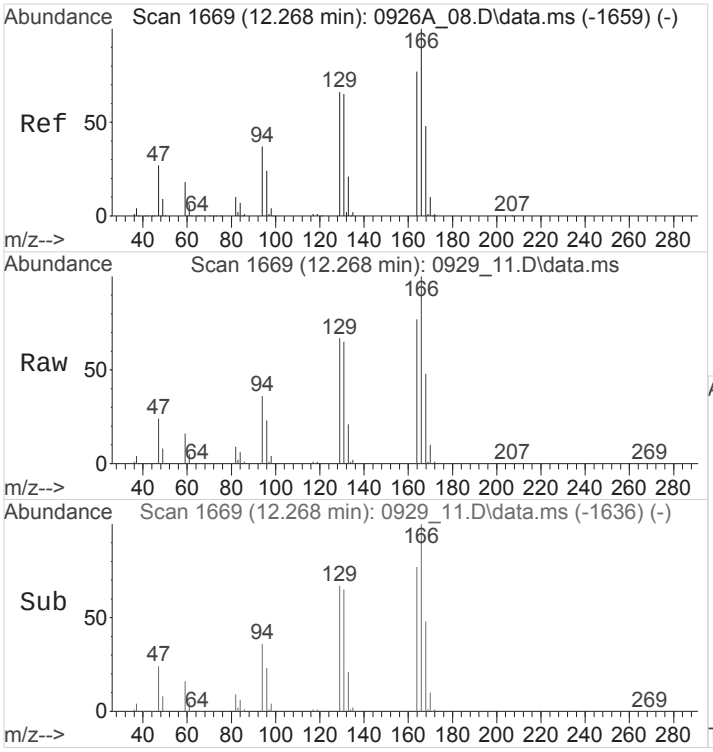


#50
Toluene
Concen: 2.0639096 ppbv
RT: 11.646 min Scan# 1567
Delta R.T. 0.004 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion: 91 Resp: 56634

Ion	Ratio	Lower	Upper
91	100		
92	58.1	46.6	70.0

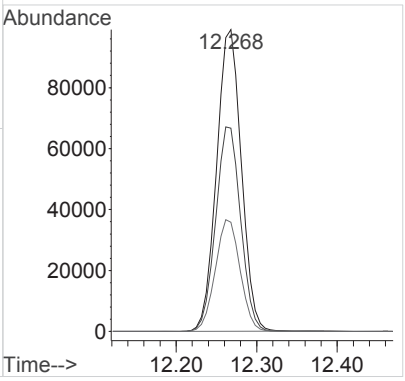


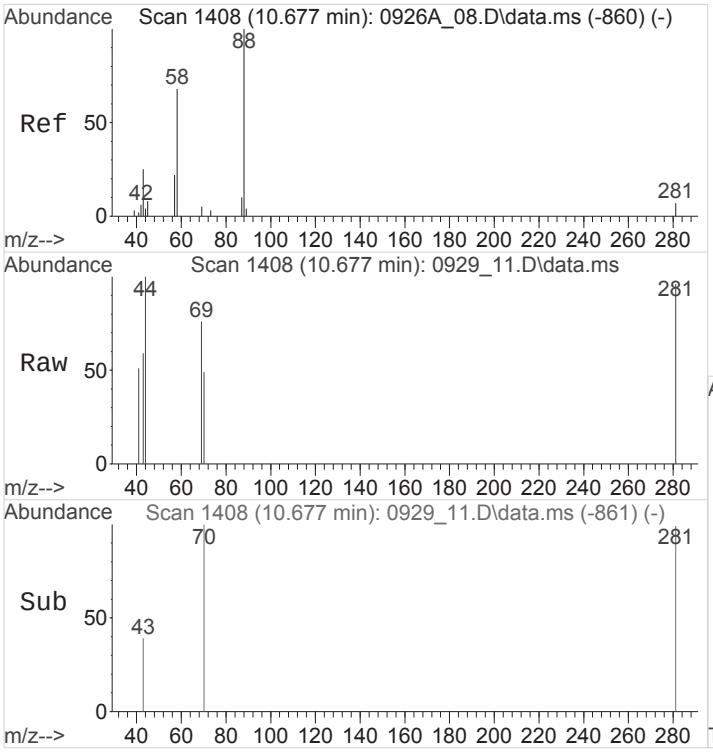


#53
Tetrachloroethene
Concen: 183.0079826 ppbv
RT: 12.268 min Scan# 1669
Delta R.T. 0.002 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion:166 Resp: 2119113

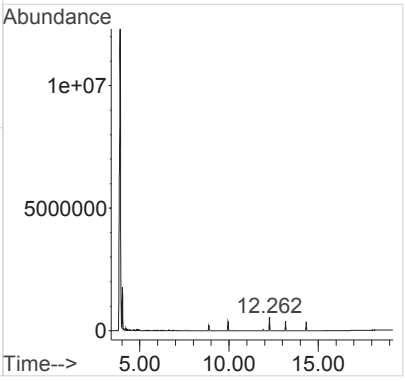
Ion	Ratio	Lower	Upper
166	100		
129	68.1	55.0	82.6
94	37.1	31.3	46.9





#84
TPH (GC/MS) Low Fraction
Concen: 264.2684358 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_11.D
Acq: 29 Sep 2016 3:13 pm

Tgt Ion:TIC Resp:13518598



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_12.D
Acq On : 29 Sep 2016 3:57 pm
Operator : 564
Sample : L861822-14 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:52 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

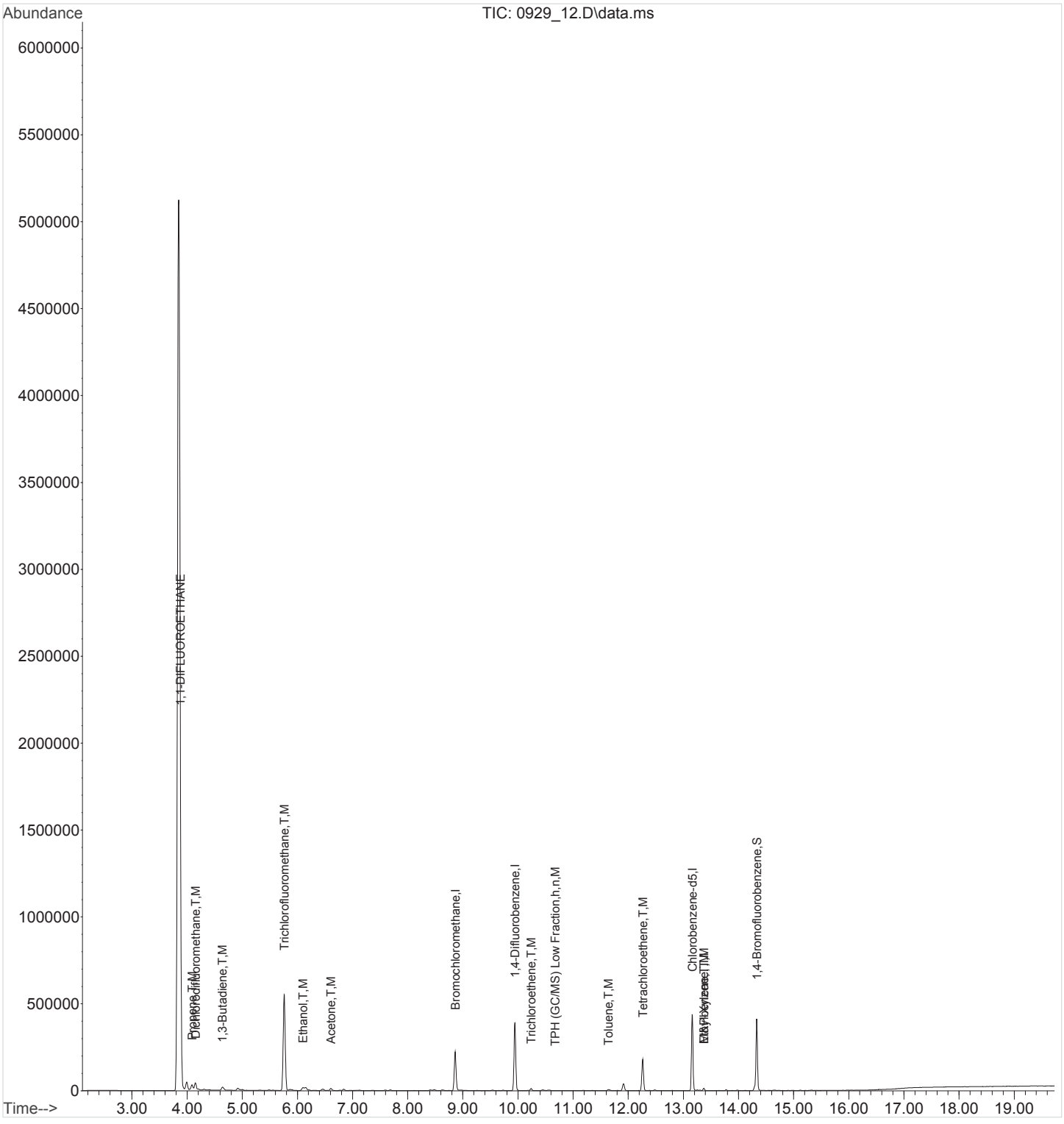
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.864	130	955603	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.946	114	3788966	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	2794509	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	1525712	3.5141840	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 87.85%			
Target Compounds						Qvalue
2) Propene	4.090	41	180029	27.3758476	ppbv	93
3) 1,1-DIFLUOROETHANE	3.880	65	33546	8.0160241	ppbv #	1
4) Dichlorodifluoromethane	4.154	85	481814	38.1165700	ppbv	99
9) 1,3-Butadiene	4.642	39	80388	13.2919607	ppbv #	4
13) Trichlorofluoromethane	5.762	101	6007204	492.3531434	ppbv	100
14) Ethanol	6.101	45	356186	323.2237343	ppbv	94
17) Acetone	6.608	43	211240	10.7394148	ppbv	97
41) Trichloroethene	10.239	95	50189	6.5215095	ppbv	98
50) Toluene	11.643	91	56744	2.4079850	ppbv	97
53) Tetrachloroethene	12.265	166	707141	71.1124864	ppbv	97
59) Ethylbenzene	13.372	91	82990	3.0820461	ppbv #	64
60) M&P-Xylene	13.372	91	83007	4.0790156	ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	3074009m	64.2217316	ppbv	

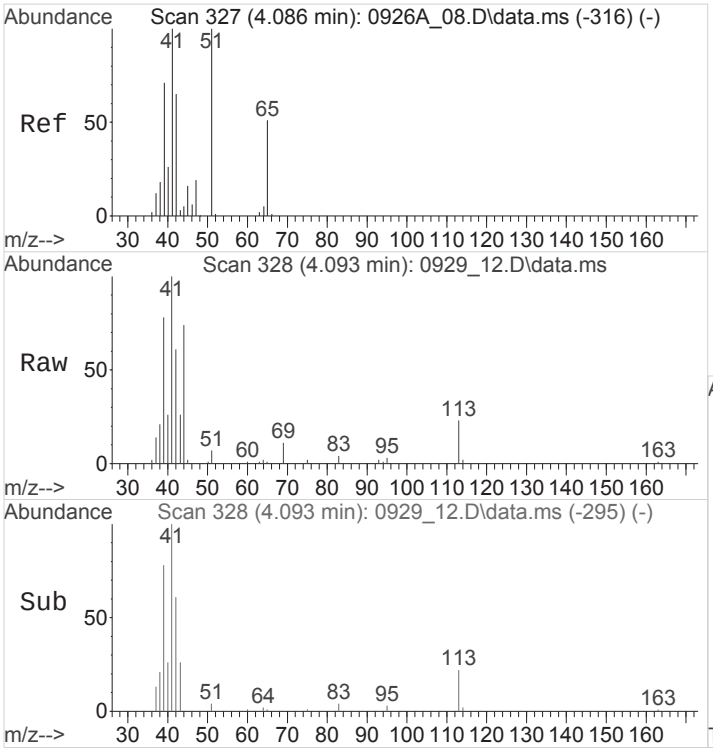
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_12.D
Acq On : 29 Sep 2016 3:57 pm
Operator : 564
Sample : L861822-14 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:52 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

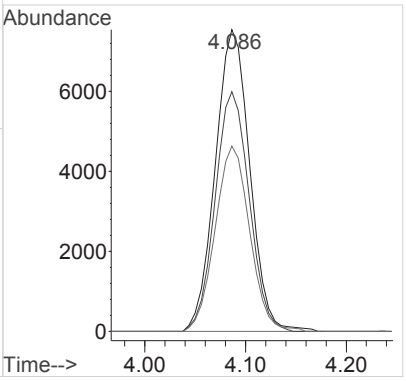


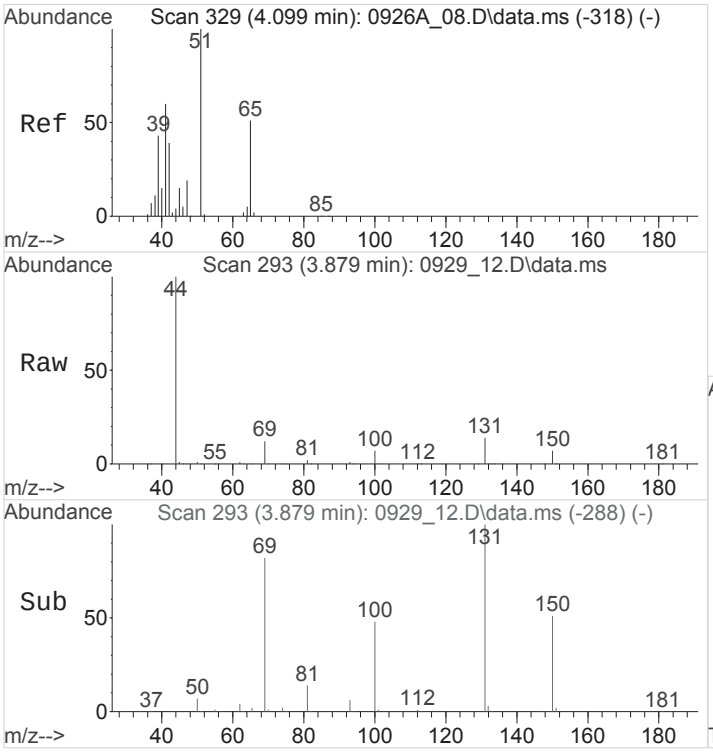


#2
Propene
Concen: 27.3758476 ppbv
RT: 4.090 min Scan# 328
Delta R.T. 0.001 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 41 Resp: 180029

Ion	Ratio	Lower	Upper
41	100		
39	78.4	56.5	84.7
42	61.6	52.2	78.4

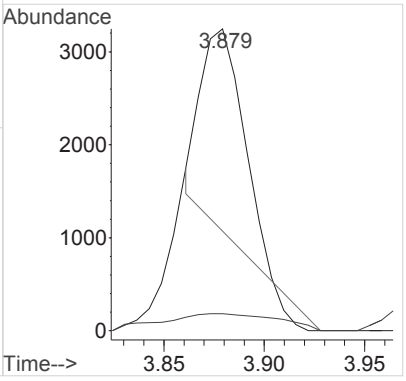


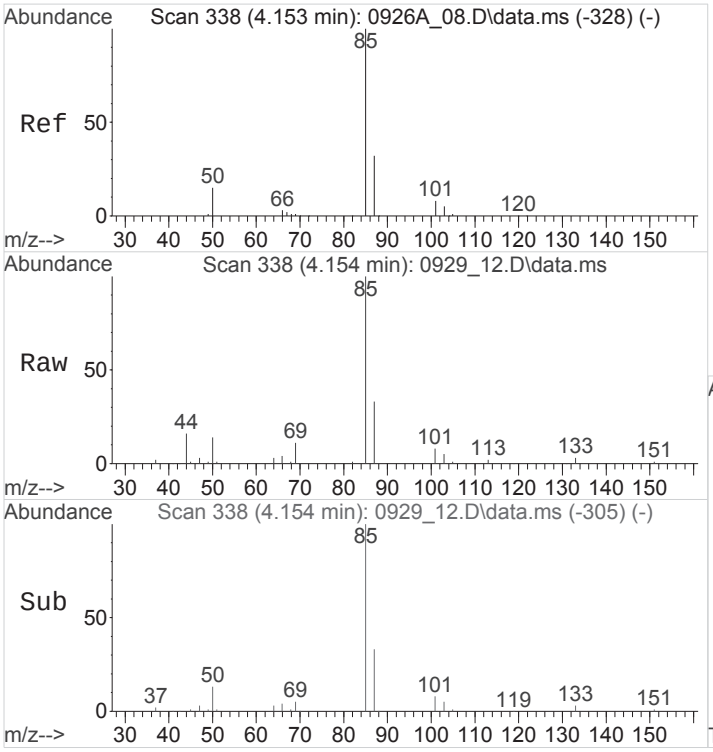


#3
1,1-DIFLUOROETHANE
Concen: 8.0160241 ppbv
RT: 3.880 min Scan# 293
Delta R.T. -0.219 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 65 Resp: 33546

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

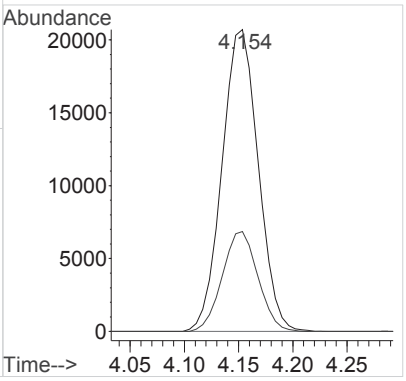


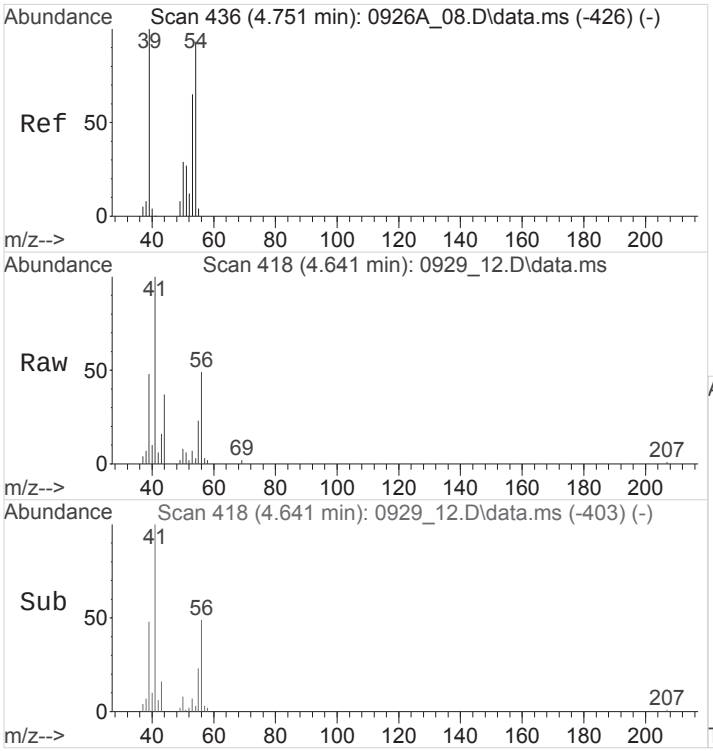


#4
Dichlorodifluoromethane
Concen: 38.1165700 ppbv
RT: 4.154 min Scan# 338
Delta R.T. 0.001 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 85 Resp: 481814

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.8	38.6

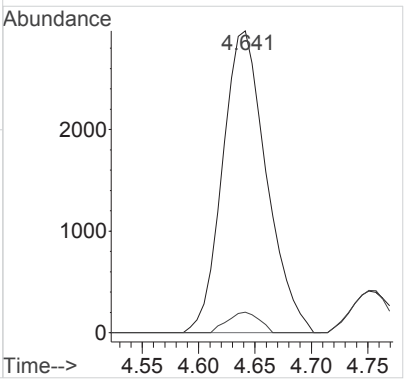


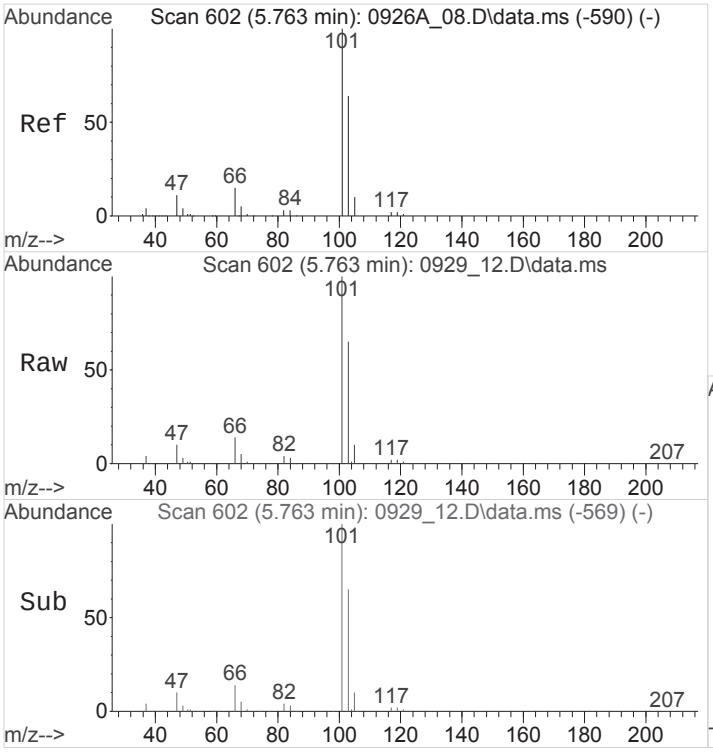


#9
1,3-Butadiene
Concen: 13.2919607 ppbv
RT: 4.642 min Scan# 418
Delta R.T. -0.109 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 39 Resp: 80388

Ion	Ratio	Lower	Upper
39	100		
54	0.0	73.4	110.0#

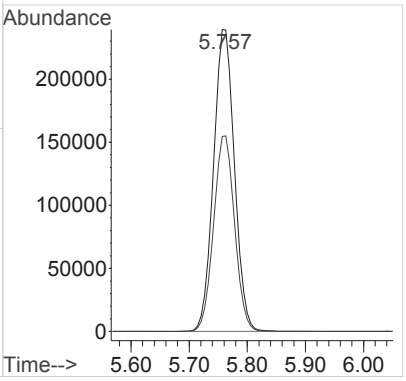


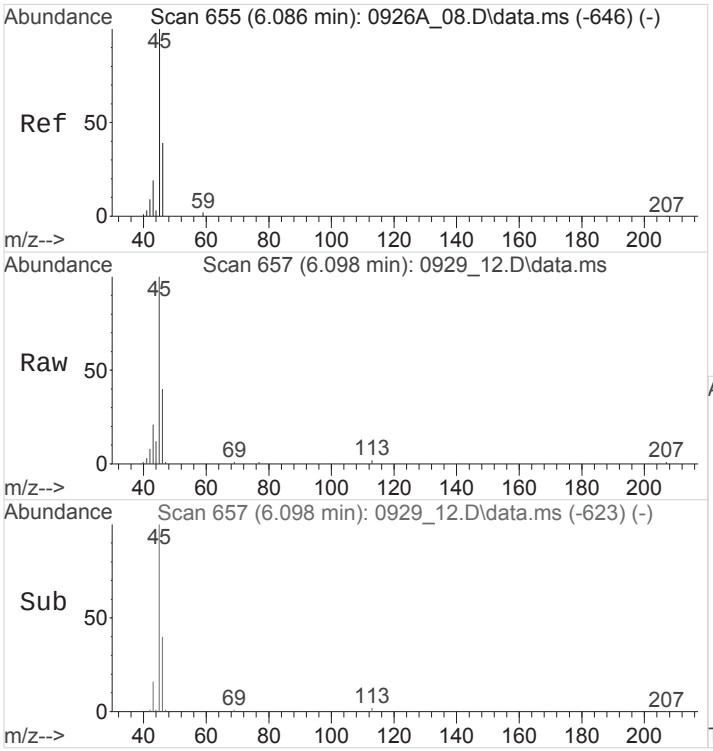


#13
Trichlorofluoromethane
Concen: 492.3531434 ppbv
RT: 5.762 min Scan# 602
Delta R.T. 0.001 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion:101 Resp: 6007204

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.7	77.5

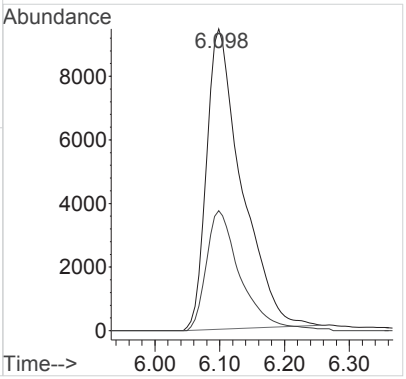


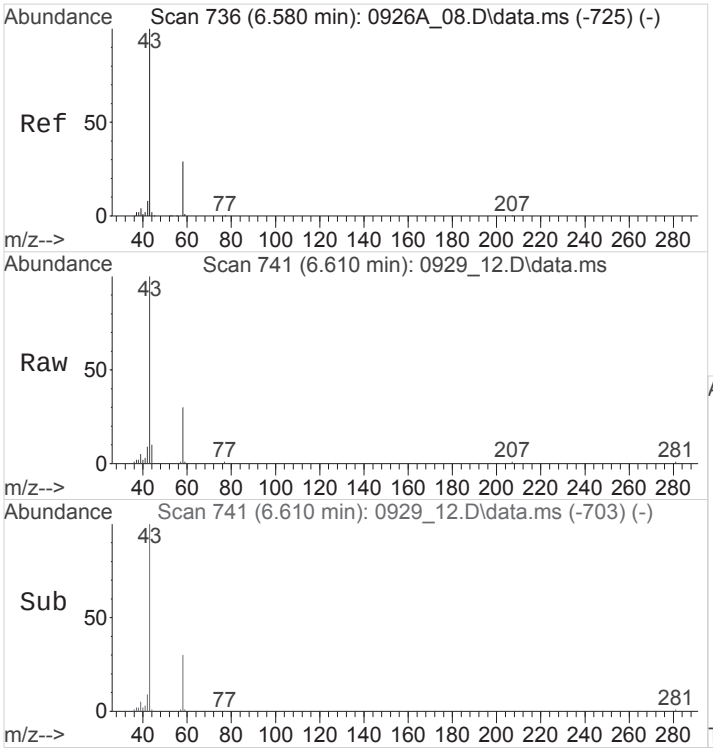


#14
Ethanol
Concen: 323.2237343 ppbv
RT: 6.101 min Scan# 657
Delta R.T. 0.013 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 45 Resp: 356186

Ion	Ratio	Lower	Upper
45	100		
46	37.7	33.0	49.4

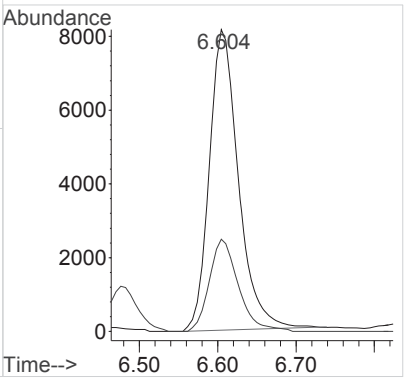


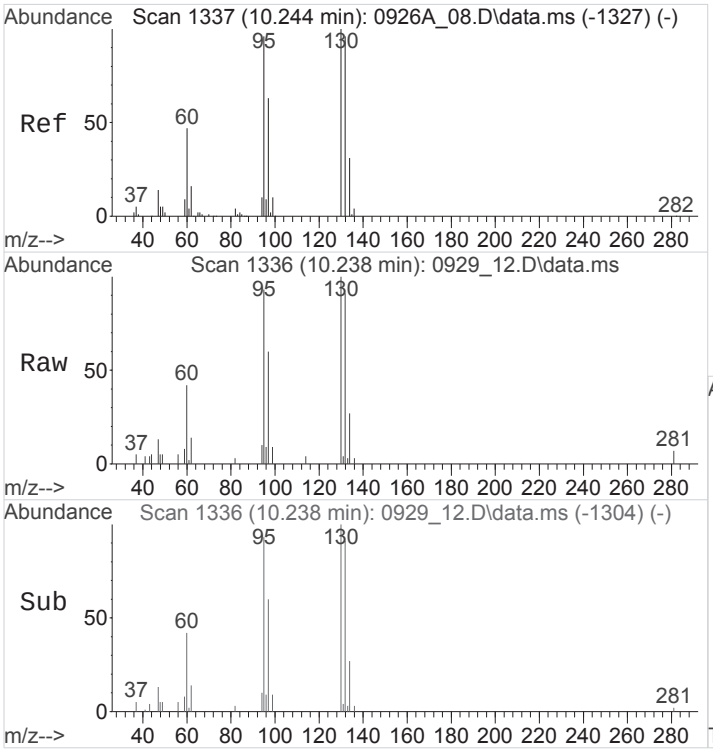


#17
Acetone
Concen: 10.7394148 ppbv
RT: 6.608 min Scan# 741
Delta R.T. 0.030 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 43 Resp: 211240

Ion	Ratio	Lower	Upper
43	100		
58	30.7	23.1	34.7

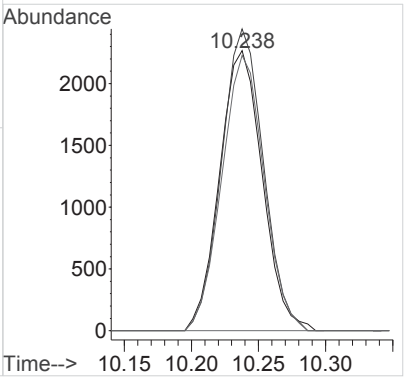


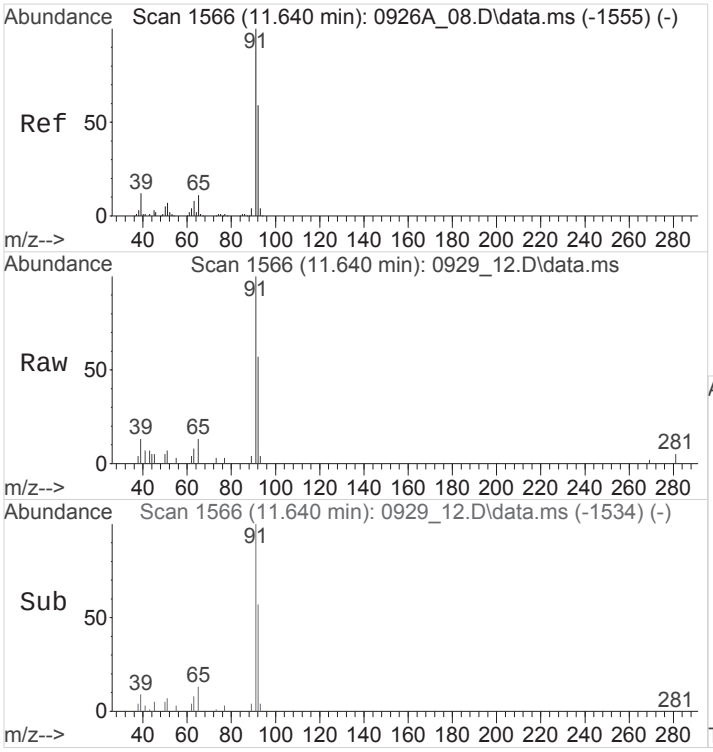


#41
Trichloroethene
Concen: 6.5215095 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.002 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 95 Resp: 50189

Ion	Ratio	Lower	Upper
95	100		
130	105.7	81.6	122.4
132	97.4	77.8	116.6

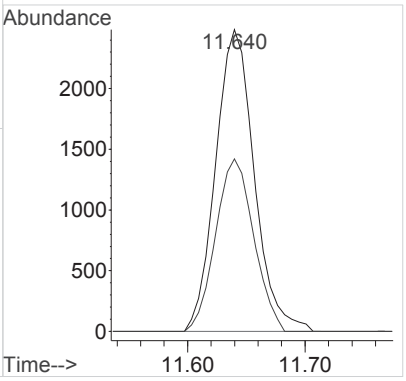


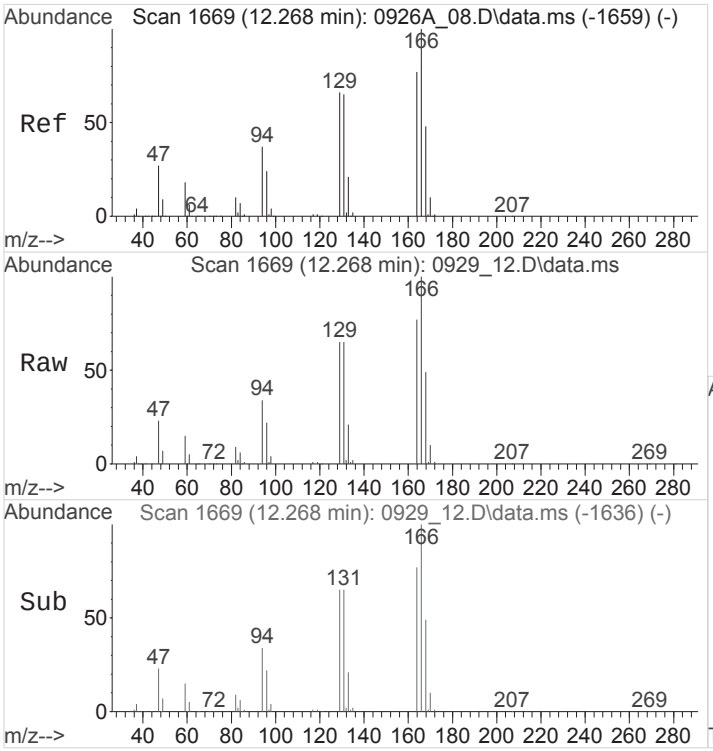


#50
Toluene
Concen: 2.4079850 ppbv
RT: 11.643 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 91 Resp: 56744

Ion	Ratio	Lower	Upper
91	100		
92	56.4	46.6	70.0

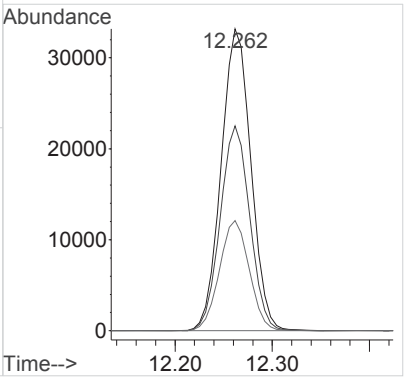


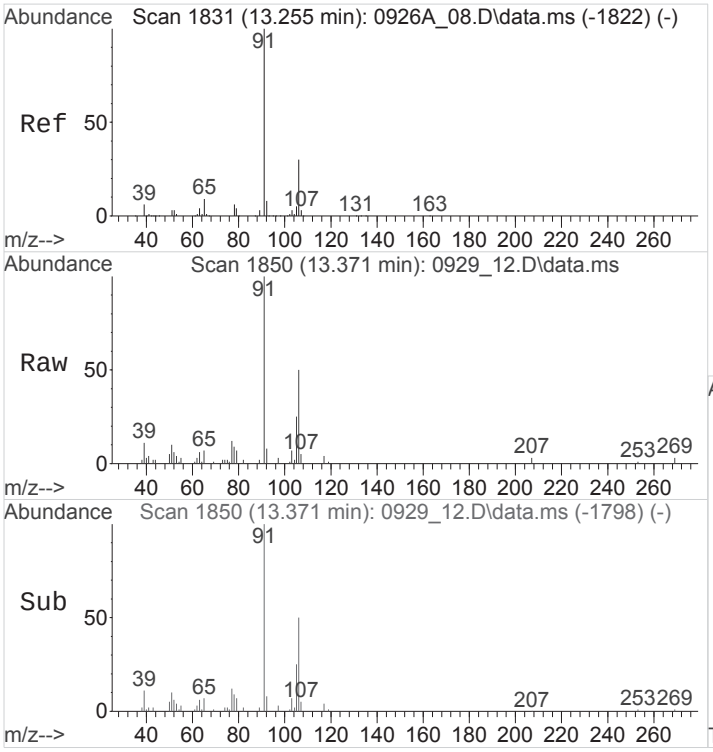


#53
Tetrachloroethene
Concen: 71.1124864 ppbv
RT: 12.265 min Scan# 1669
Delta R.T. -0.001 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion:166 Resp: 707141

Ion	Ratio	Lower	Upper
166	100		
129	67.4	55.0	82.6
94	36.5	31.3	46.9

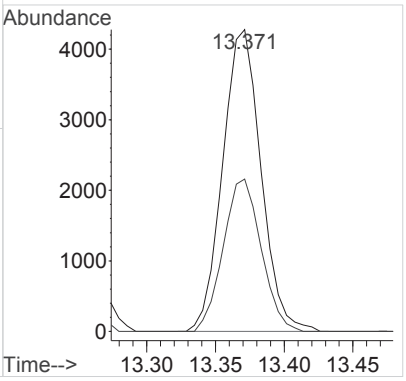


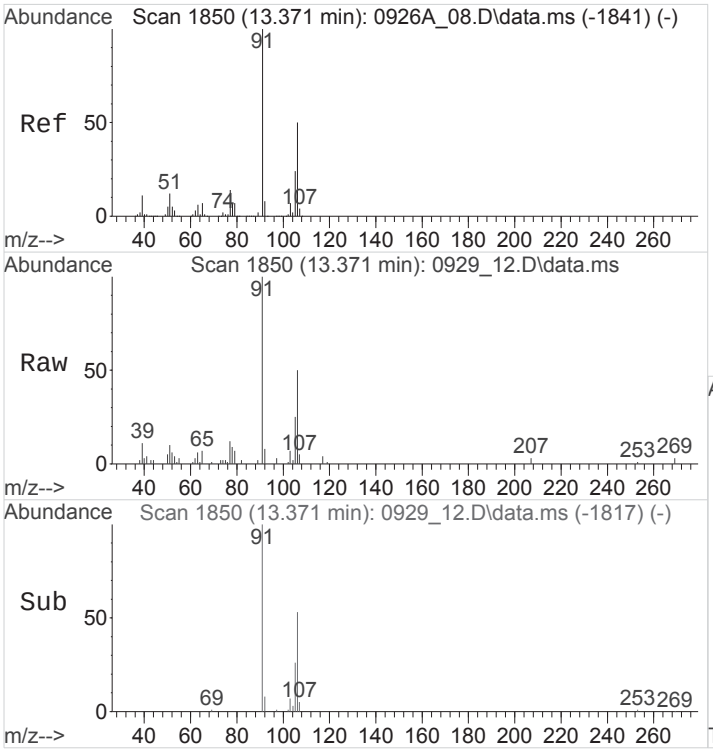


#59
Ethylbenzene
Concen: 3.0820461 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.114 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 91 Resp: 82990

Ion	Ratio	Lower	Upper
91	100		
106	49.9	24.3	36.5#

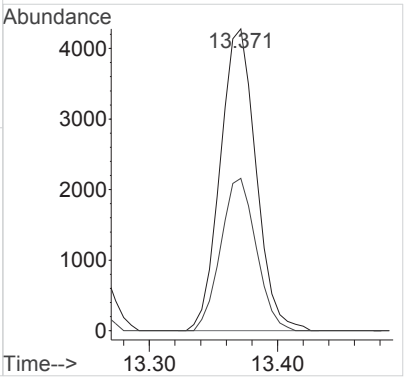


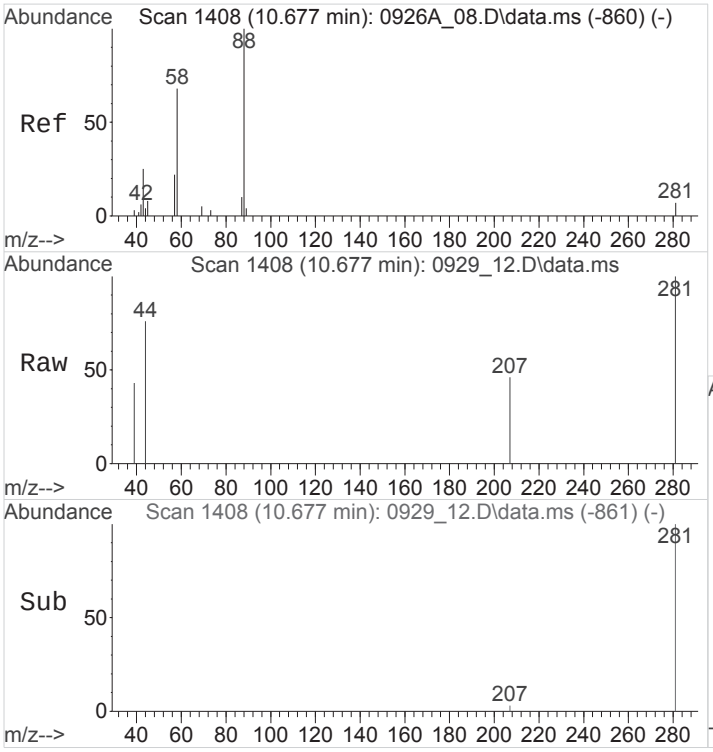


#60
M&P-Xylene
Concen: 4.0790156 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. -0.000 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion: 91 Resp: 83007

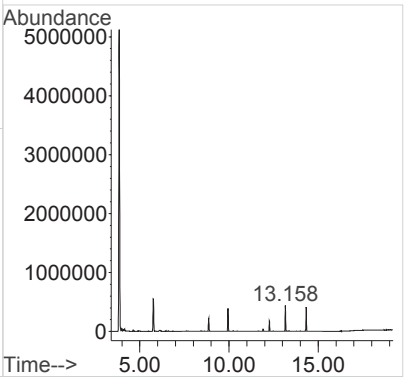
Ion	Ratio	Lower	Upper
91	100		
106	49.9	39.8	59.6





#84
TPH (GC/MS) Low Fraction
Concen: 64.2217316 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_12.D
Acq: 29 Sep 2016 3:57 pm

Tgt Ion:TIC Resp: 3074009



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_13.D
Acq On : 29 Sep 2016 4:41 pm
Operator : 564
Sample : L861822-16 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:57 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

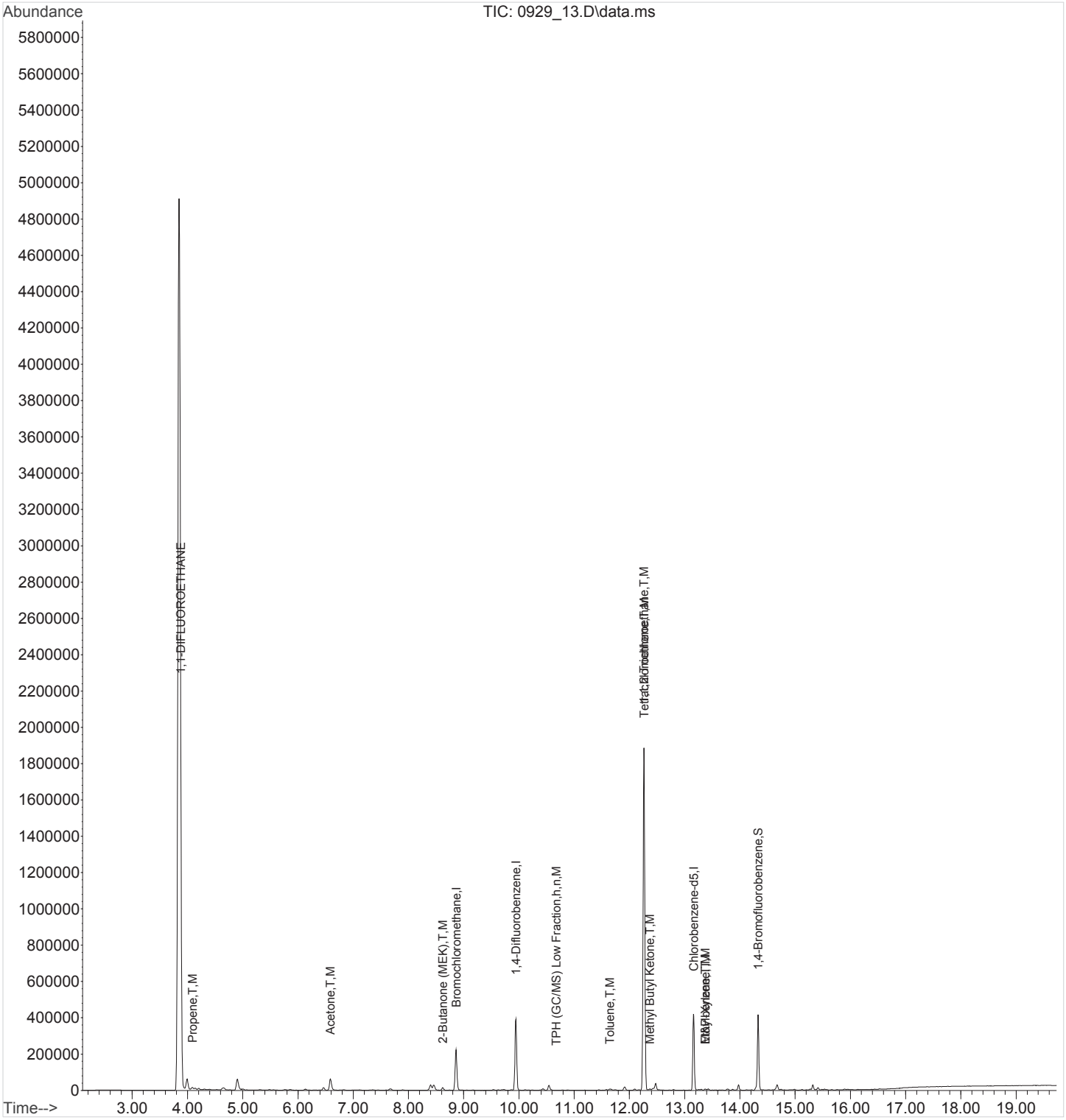
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.864	130	960956	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.946	114	3825128	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	2675080	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	1525875	3.6714676	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 91.79%				
Target Compounds						Qvalue	
2) Propene	4.091	41	50667	7.6617084	ppbv		91
3) 1,1-DIFLUOROETHANE	3.879	65	37414	8.8906584	ppbv	#	1
17) Acetone	6.588	43	1080738	54.6385741	ppbv		97
29) 2-Butanone (MEK)	8.621	72	52128	17.0164967	ppbv	#	43
50) Toluene	11.643	91	58680	2.4666214	ppbv		100
52) 1,1,2-Trichloroethane	12.264	97	34800	4.8070623	ppbv	#	1
53) Tetrachloroethene	12.267	166	7302674	727.4393194	ppbv		99
54) Methyl Butyl Ketone	12.373	43	41720	3.0642201	ppbv	#	82
59) Ethylbenzene	13.372	91	40103	1.5557970	ppbv	#	70
60) M&P-Xylene	13.372	91	40103	2.0586422	ppbv	#	28
84) TPH (GC/MS) Low Fraction	10.675	TIC	40574908m	885.5299070	ppbv		

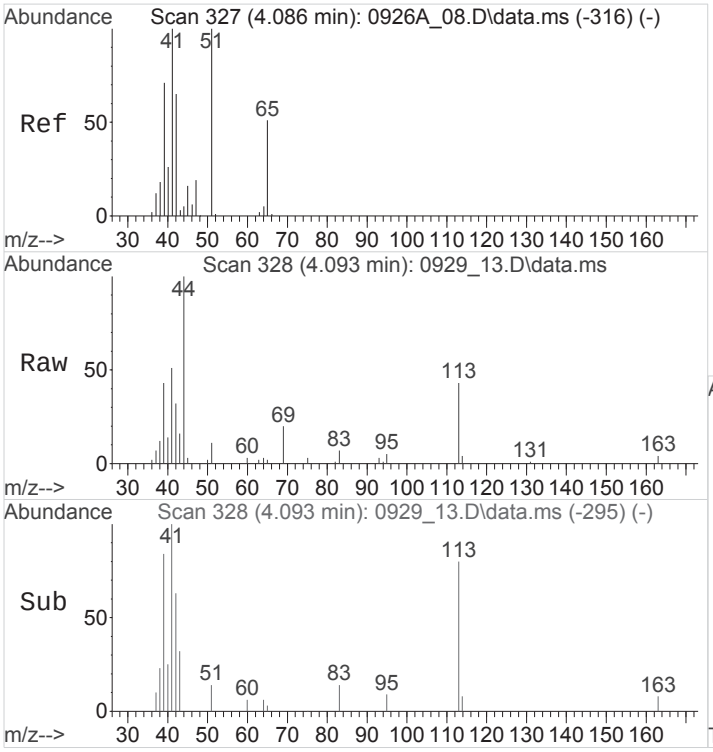
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_13.D
Acq On : 29 Sep 2016 4:41 pm
Operator : 564
Sample : L861822-16 25x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 13 Sample Multiplier: 25
InstName : AIRMS2

Quant Time: Sep 30 06:14:57 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

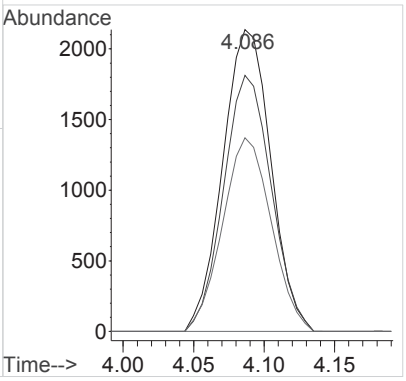


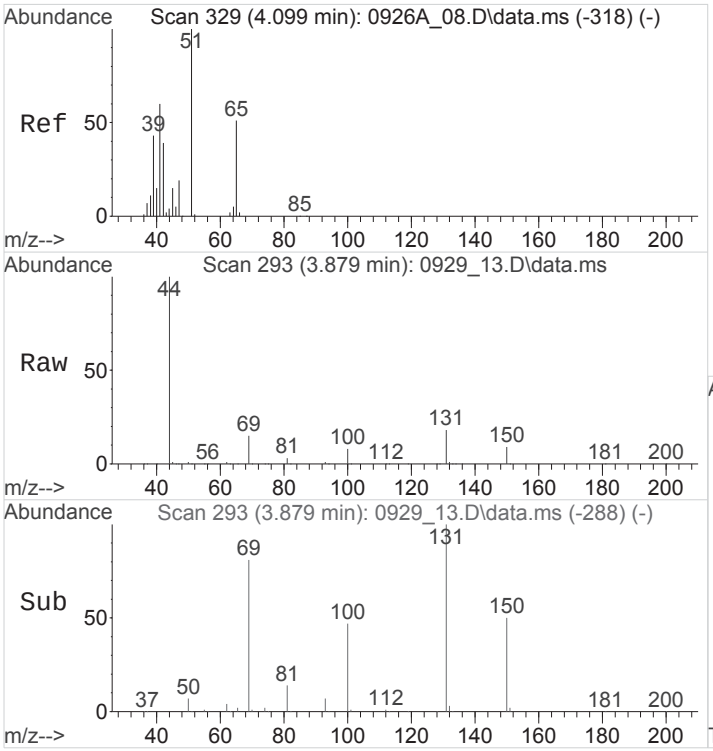


#2
Propene
Concen: 7.6617084 ppbv
RT: 4.091 min Scan# 328
Delta R.T. 0.002 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 41 Resp: 50667

Ion	Ratio	Lower	Upper
41	100		
39	84.4	56.5	84.7
42	65.0	52.2	78.4

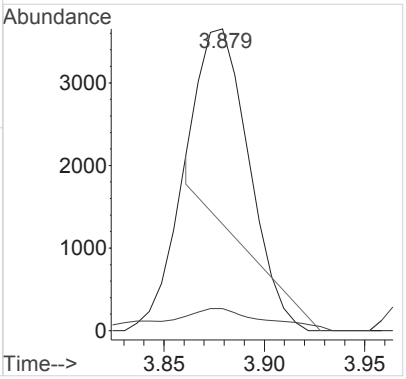


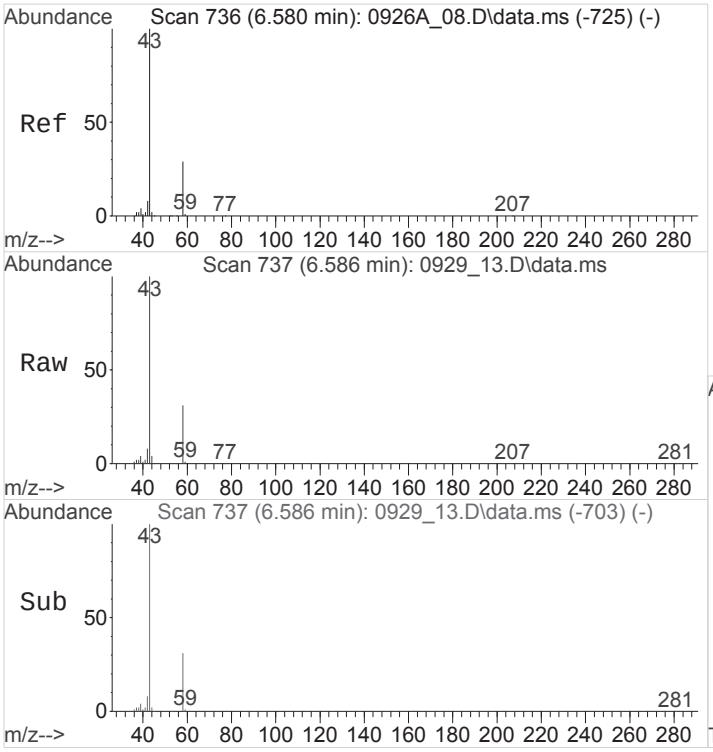


#3
1,1-DIFLUOROETHANE
Concen: 8.8906584 ppbv
RT: 3.879 min Scan# 293
Delta R.T. -0.220 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 65 Resp: 37414

Ion	Ratio	Lower	Upper
65	100		
51	0.0	154.7	232.1#

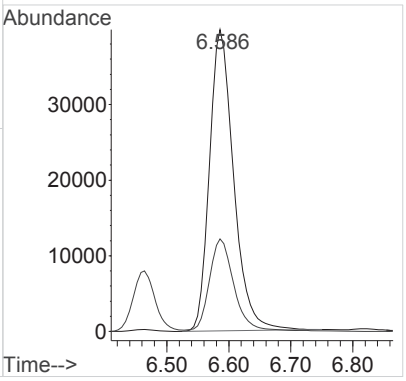


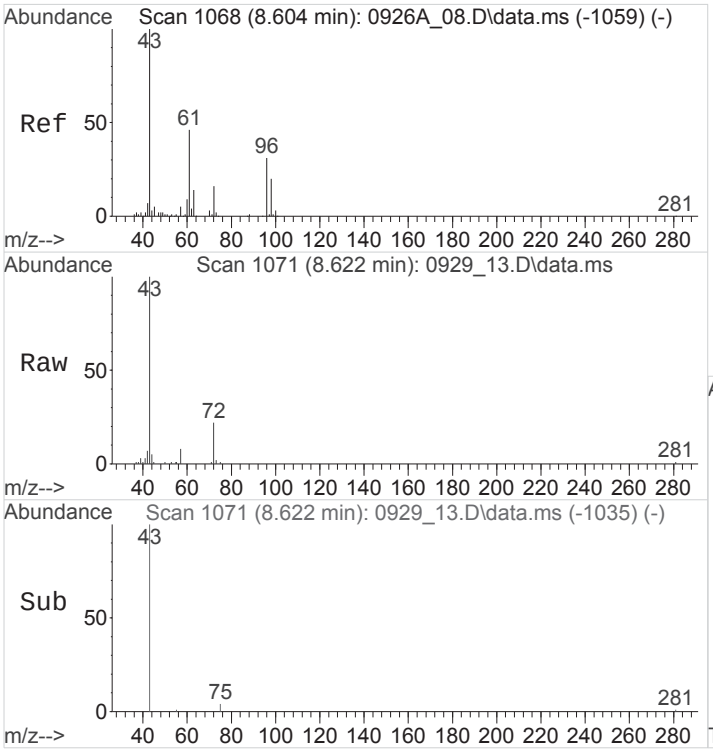


#17
Acetone
Concen: 54.6385741 ppbv
RT: 6.588 min Scan# 737
Delta R.T. 0.010 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 43 Resp: 1080738

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.1	34.7

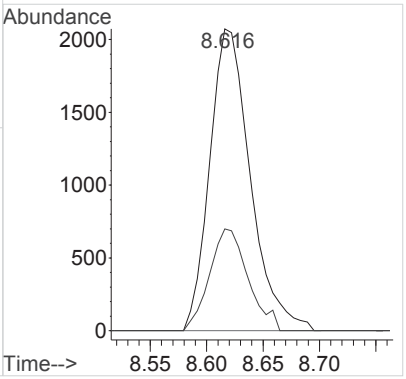


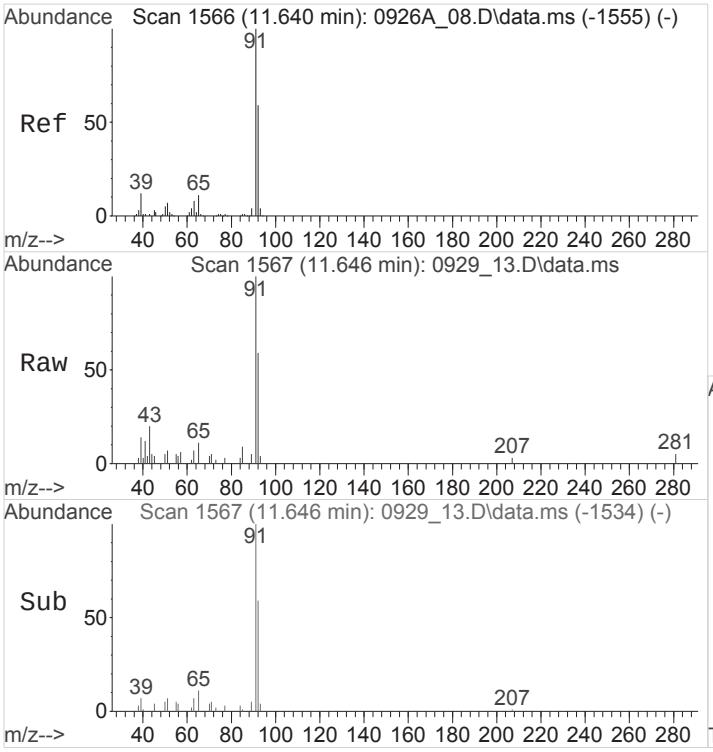


#29
2-Butanone (MEK)
Concen: 17.0164967 ppbv
RT: 8.621 min Scan# 1071
Delta R.T. 0.020 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 72 Resp: 52128

Ion	Ratio	Lower	Upper
72	100		
57	0.0	25.6	38.4#

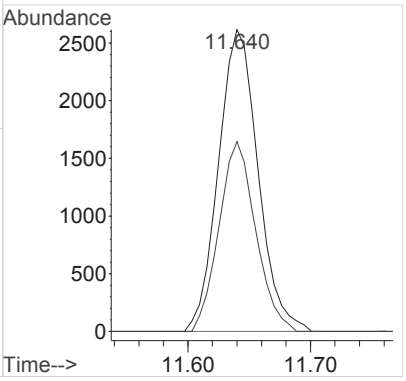


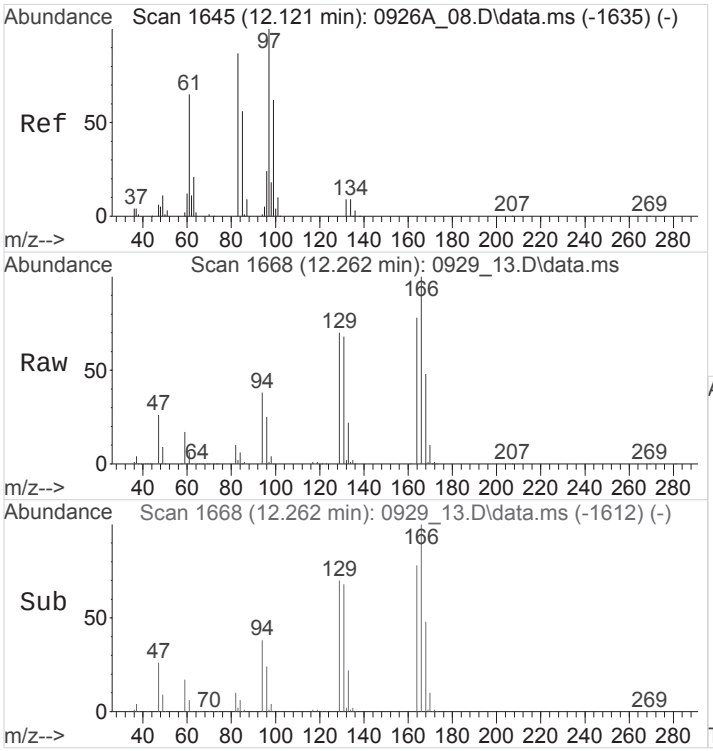


#50
Toluene
Concen: 2.4666214 ppbv
RT: 11.643 min Scan# 1567
Delta R.T. 0.001 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 91 Resp: 58680

Ion	Ratio	Lower	Upper
91	100		
92	58.3	46.6	70.0

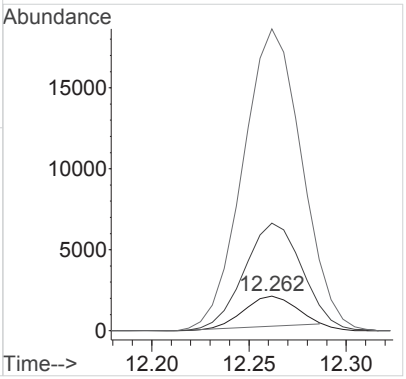


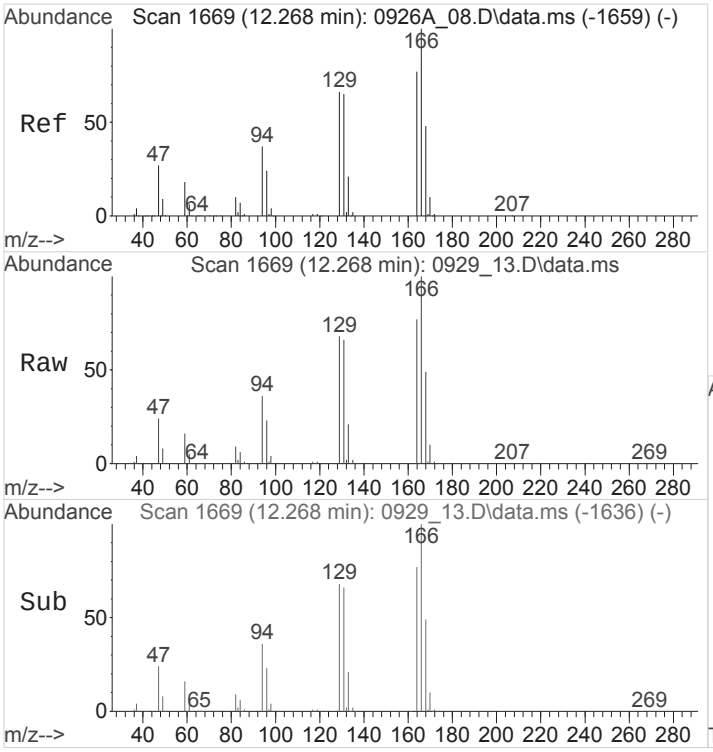


#52
1,1,2-Trichloroethane
Concen: 4.8070623 ppbv
RT: 12.264 min Scan# 1668
Delta R.T. 0.145 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 97 Resp: 34800

Ion	Ratio	Lower	Upper
97	100		
83	302.9	69.5	104.3#
61	858.5	52.2	78.4#

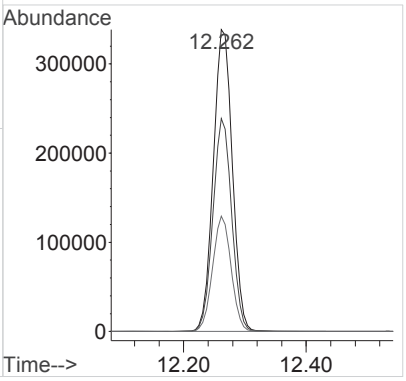


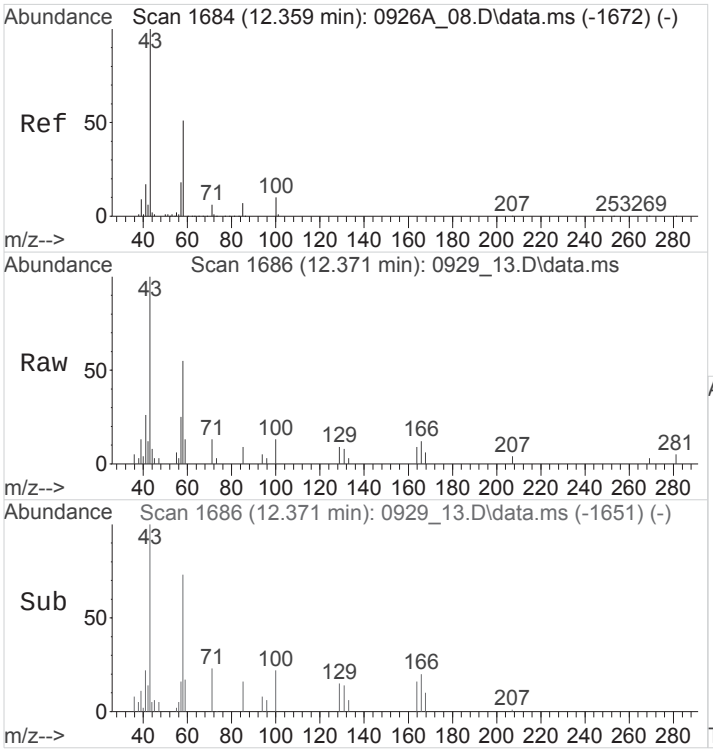


#53
Tetrachloroethene
Concen: 727.4393194 ppbv
RT: 12.267 min Scan# 1669
Delta R.T. 0.000 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion:166 Resp: 7302674

Ion	Ratio	Lower	Upper
166	100		
129	69.2	55.0	82.6
94	37.3	31.3	46.9

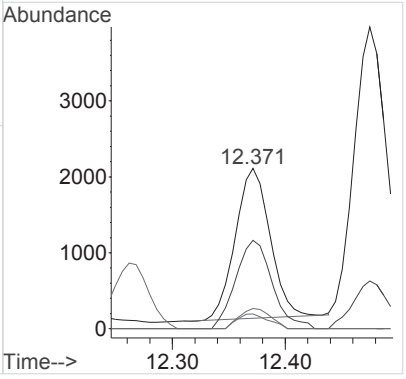


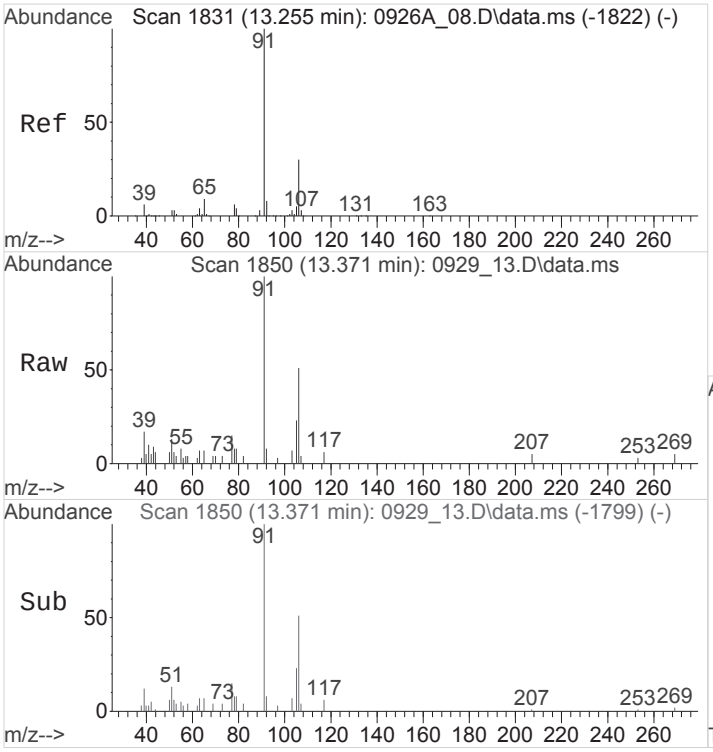


#54
Methyl Butyl Ketone
Concen: 3.0642201 ppbv
RT: 12.373 min Scan# 1686
Delta R.T. 0.016 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 43 Resp: 41720

Ion	Ratio	Lower	Upper
43	100		
58	62.7	41.0	61.4#
85	0.0	5.6	8.4#
100	0.0	7.8	11.8#

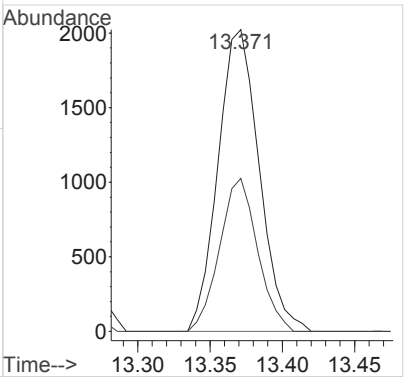


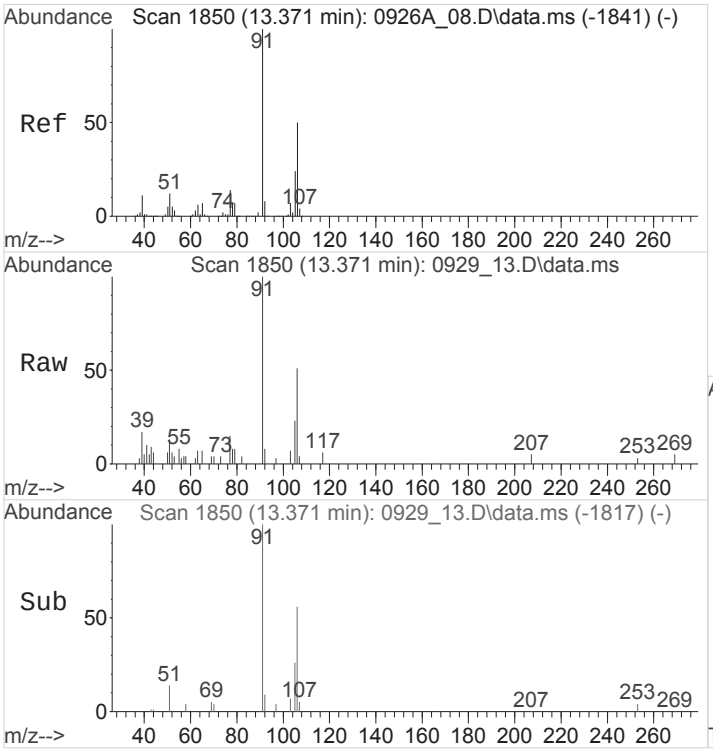


#59
Ethylbenzene
Concen: 1.5557970 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.114 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 91 Resp: 40103

Ion	Ratio	Lower	Upper
91	100		
106	46.7	24.3	36.5#

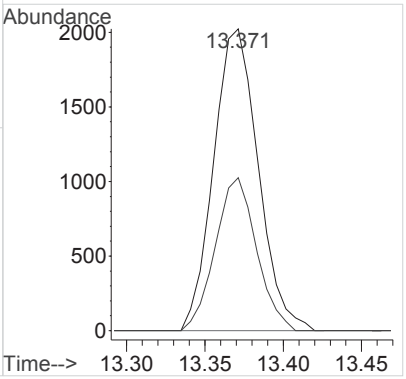


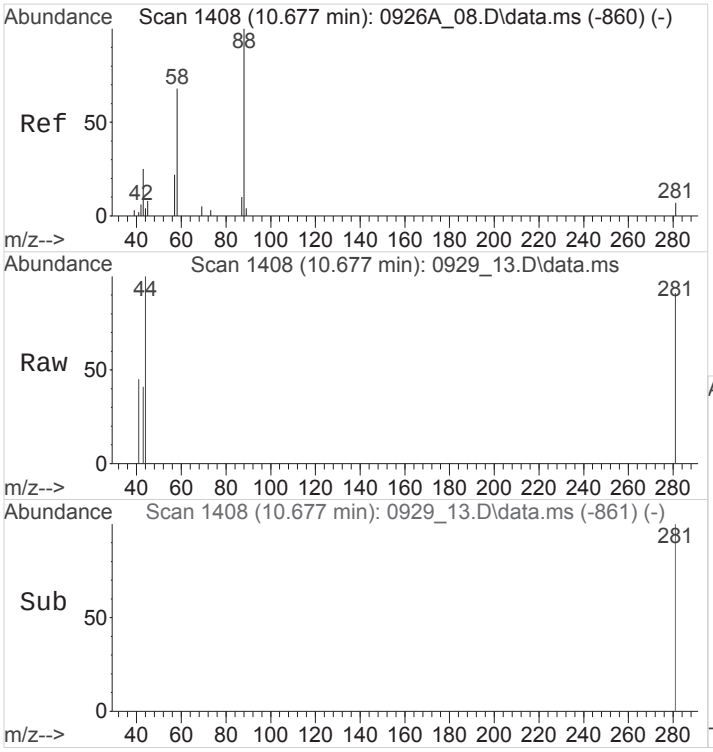


#60
M&P-Xylene
Concen: 2.0586422 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. -0.000 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion: 91 Resp: 40103

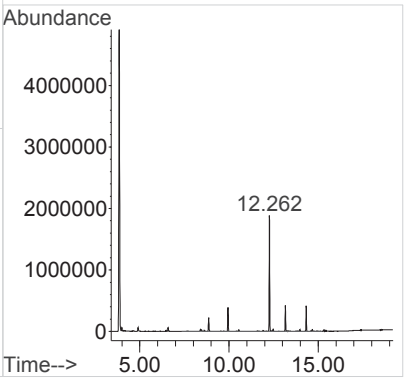
Ion	Ratio	Lower	Upper
91	100		
106	0.0	39.8	59.6#





#84
TPH (GC/MS) Low Fraction
Concen: 885.5299070 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_13.D
Acq: 29 Sep 2016 4:41 pm

Tgt Ion:TIC Resp:40574908



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_14.D
Acq On : 29 Sep 2016 5:24 pm
Operator : 564
Sample : L861822-08 100x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 14 Sample Multiplier: 100
InstName : AIRMS2

Quant Time: Sep 30 06:15:02 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

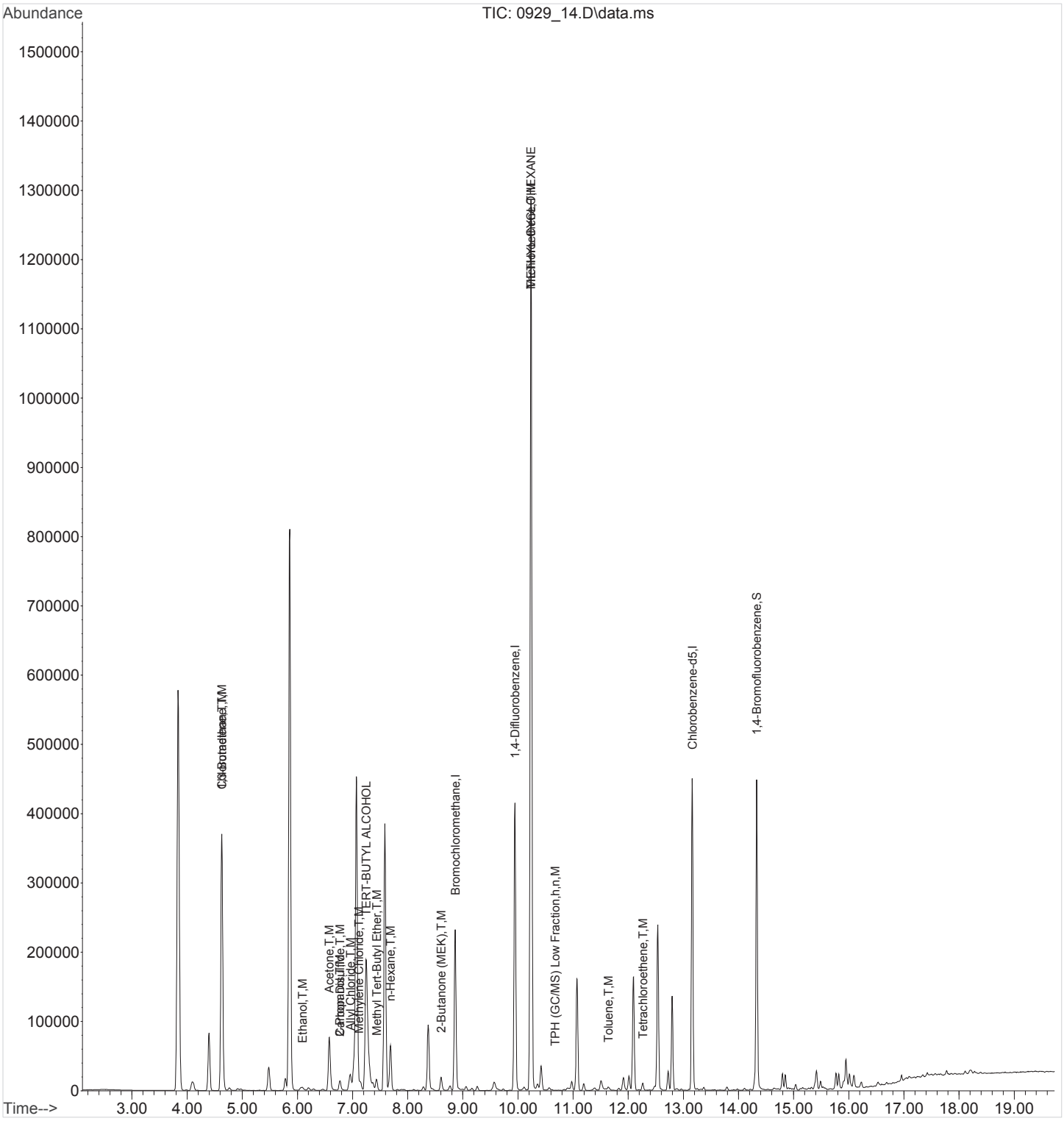
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.864	130	989288	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	3970086	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	2866881	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	1637753	3.6770217	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 91.93%				
Target Compounds						Qvalue	
7) Chloromethane	4.630	50	190578	110.5171893	ppbv	#	79
9) 1,3-Butadiene	4.630	39	1649390	1053.7464084	ppbv	#	9
14) Ethanol	6.093	45	63800	223.6964765	ppbv		100
17) Acetone	6.580	43	1268714	249.2202878	ppbv		97
18) 2-Propanol	6.771	45	64868	18.8648844	ppbv	#	74
19) Carbon Disulfide	6.774	76	205524	46.5923801	ppbv	#	90
20) Allyl Chloride	6.962	41	274005	112.3322836	ppbv	#	45
21) Methylene Chloride	7.115	49	53103	25.3929798	ppbv	#	1
22) TERT-BUTYL ALCOHOL	7.250	59	4067392	1066.0390713	ppbv		94
23) Methyl Tert-Butyl Ether	7.437	73	179982	38.9228200	ppbv	#	51
25) n-Hexane	7.692	57	359719	133.6797850	ppbv		94
29) 2-Butanone (MEK)	8.610	72	61239	77.6726151	ppbv	#	43
41) Trichloroethene	10.238	95	4939791	2450.3787356	ppbv		96
43) METHYL CYCLOHEXANE	10.239	83	60965	21.3403500	ppbv	#	2
50) Toluene	11.642	91	40823	6.6132964	ppbv	#	22
53) Tetrachloroethene	12.267	166	40674	15.6148481	ppbv	#	74
84) TPH (GC/MS) Low Fraction	10.675	TIC	34769583m	2832.2541943	ppbv		

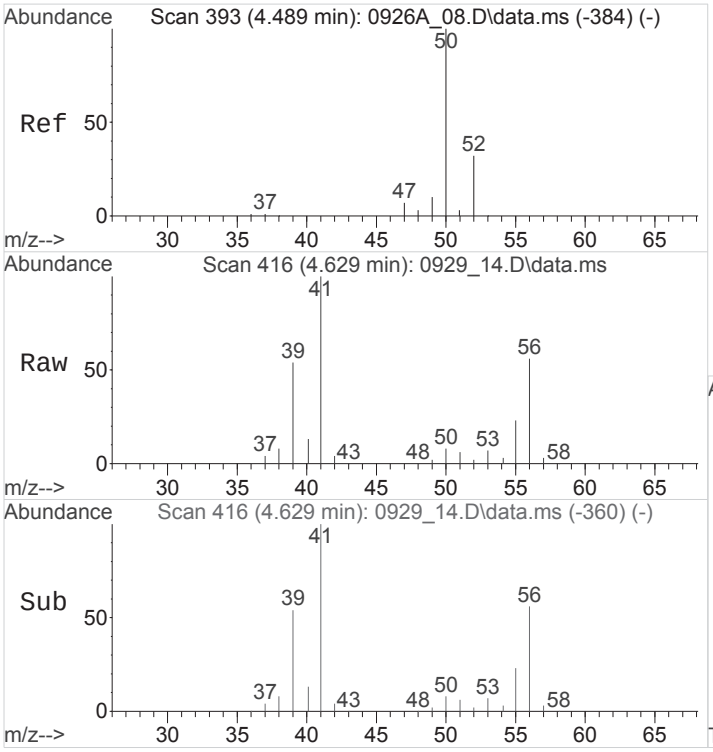
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_14.D
Acq On : 29 Sep 2016 5:24 pm
Operator : 564
Sample : L861822-08 100x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 14 Sample Multiplier: 100
InstName : AIRMS2

Quant Time: Sep 30 06:15:02 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

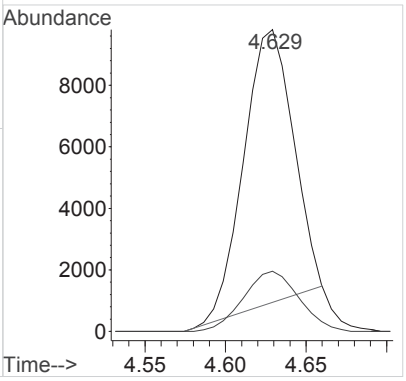


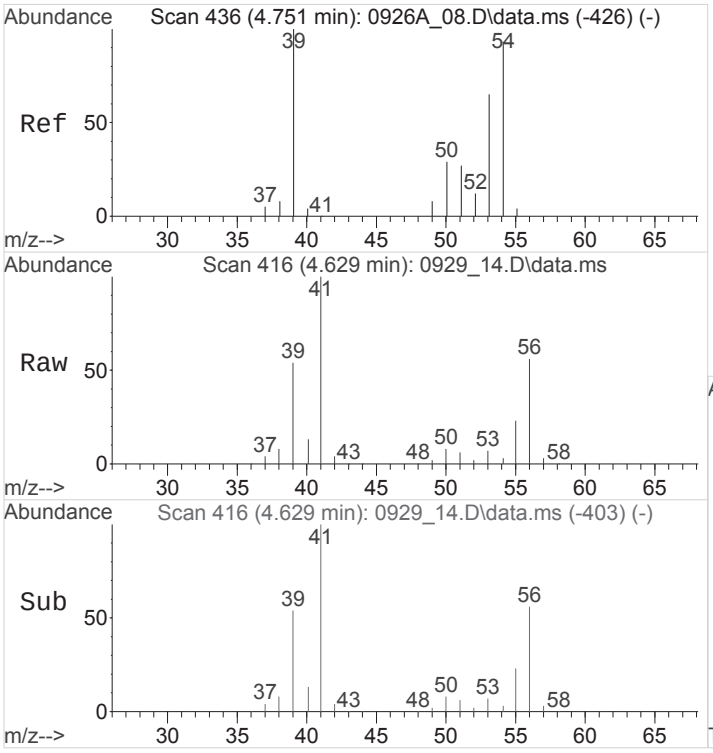


#7
Chloromethane
Concen: 110.5171893 ppbv
RT: 4.630 min Scan# 416
Delta R.T. 0.142 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 50 Resp: 190578

Ion	Ratio	Lower	Upper
50	100		
52	20.3	25.4	38.0#

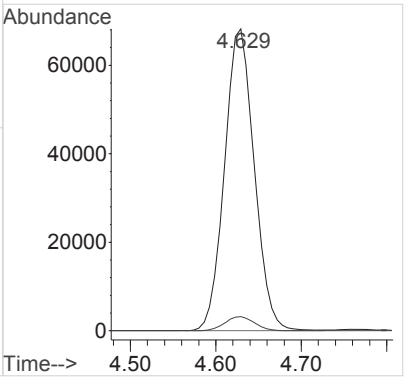


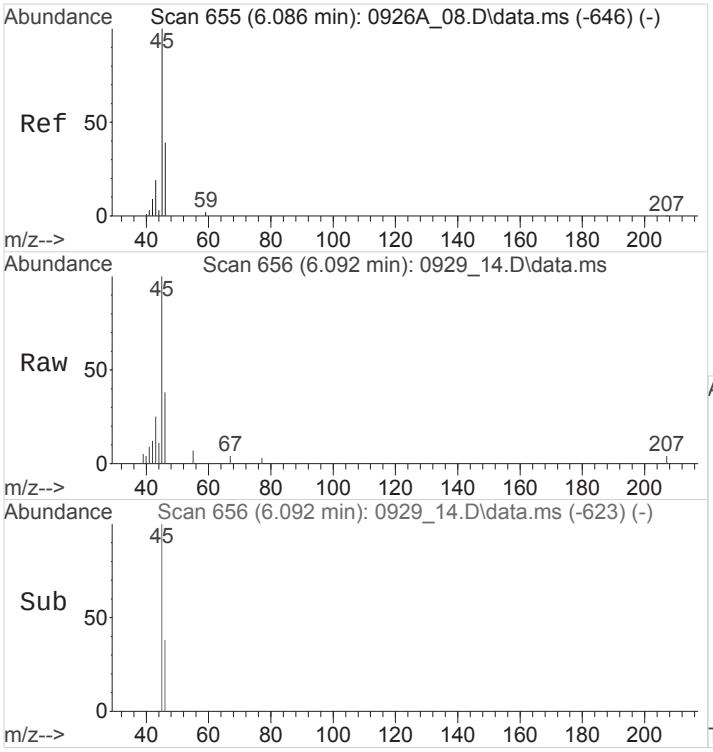


#9
1,3-Butadiene
Concen: 1053.7464084 ppbv
RT: 4.630 min Scan# 416
Delta R.T. -0.122 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 39 Resp: 1649390

Ion	Ratio	Lower	Upper
39	100		
54	4.6	73.4	110.0#

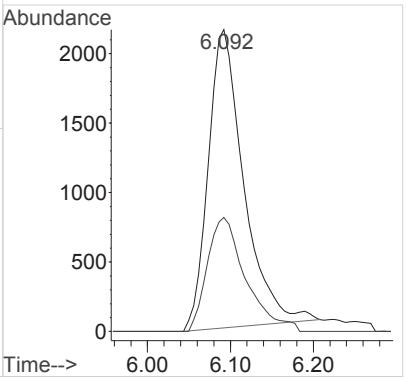


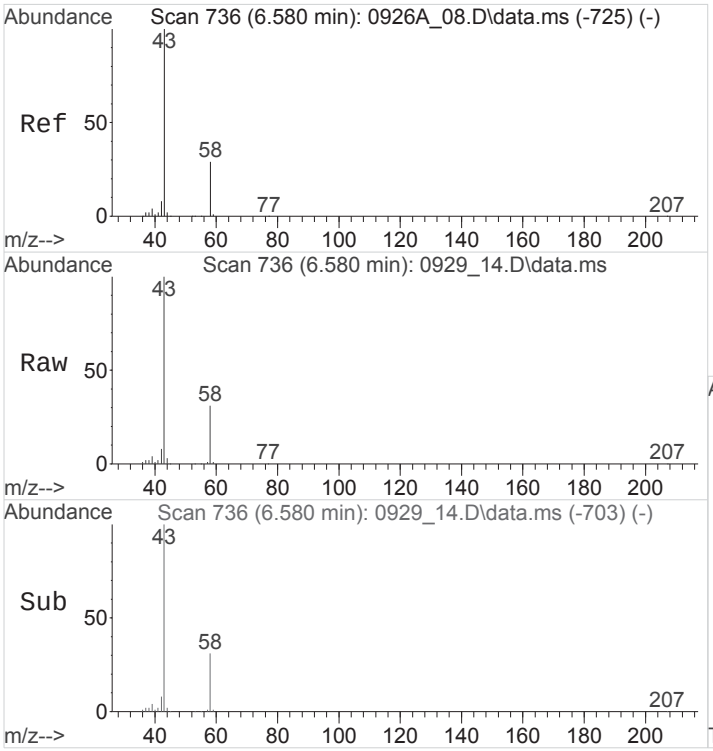


#14
Ethanol
Concen: 223.6964765 ppbv
RT: 6.093 min Scan# 656
Delta R.T. 0.005 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 45 Resp: 63800

Ion	Ratio	Lower	Upper
45	100		
46	41.4	33.0	49.4

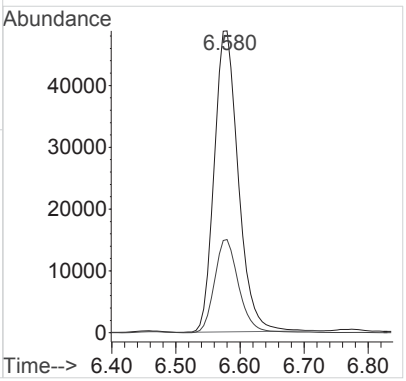


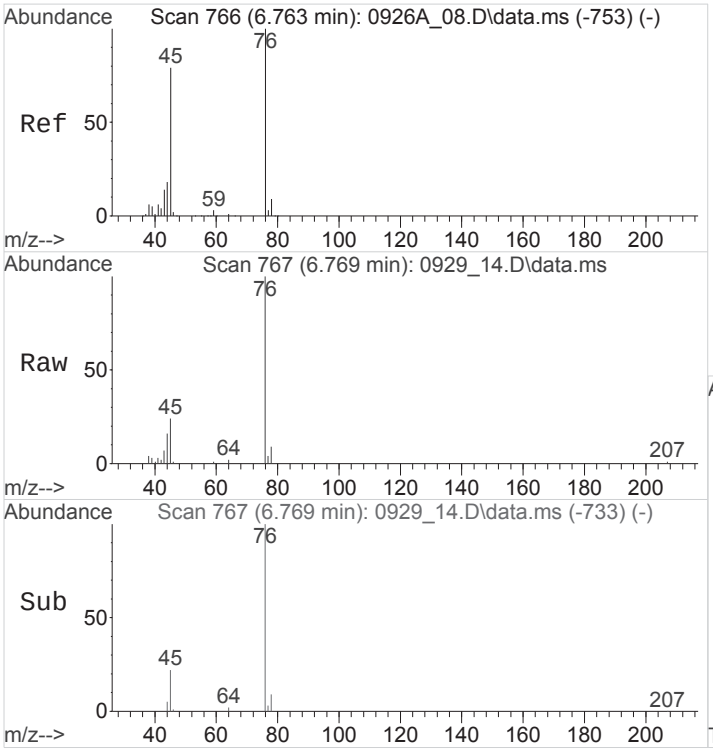


#17
Acetone
Concen: 249.2202878 ppbv
RT: 6.580 min Scan# 736
Delta R.T. 0.001 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 43 Resp: 1268714

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.1	34.7

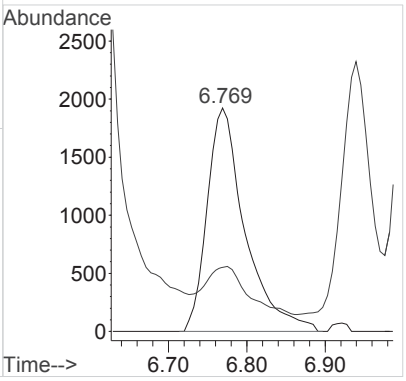


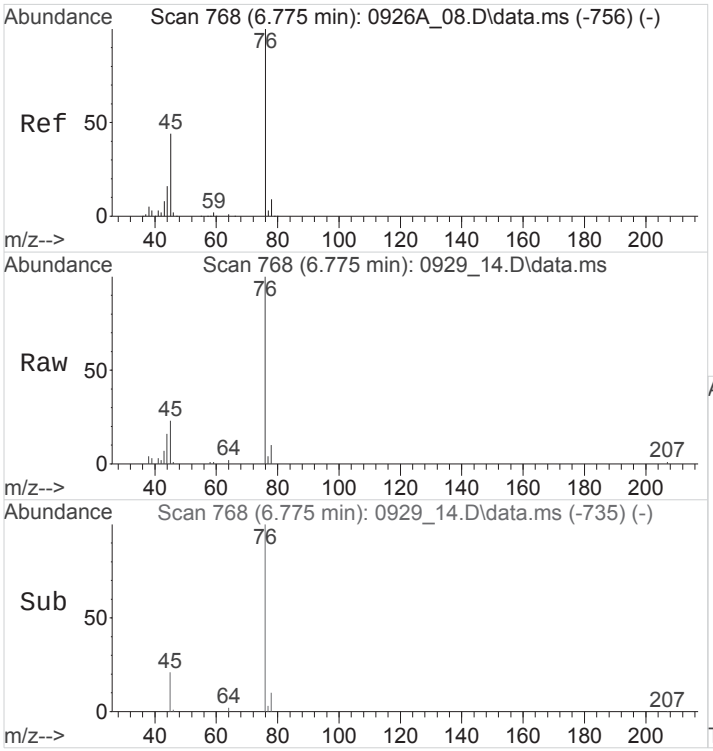


#18
2-Propanol
Concen: 18.8648844 ppbv
RT: 6.771 min Scan# 767
Delta R.T. 0.011 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 45 Resp: 64868

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

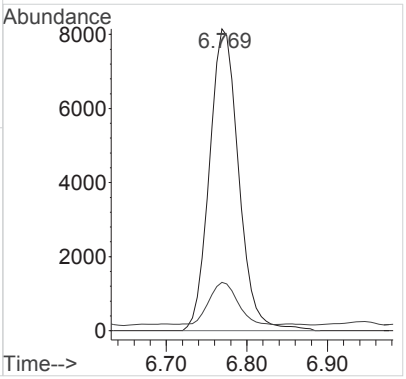


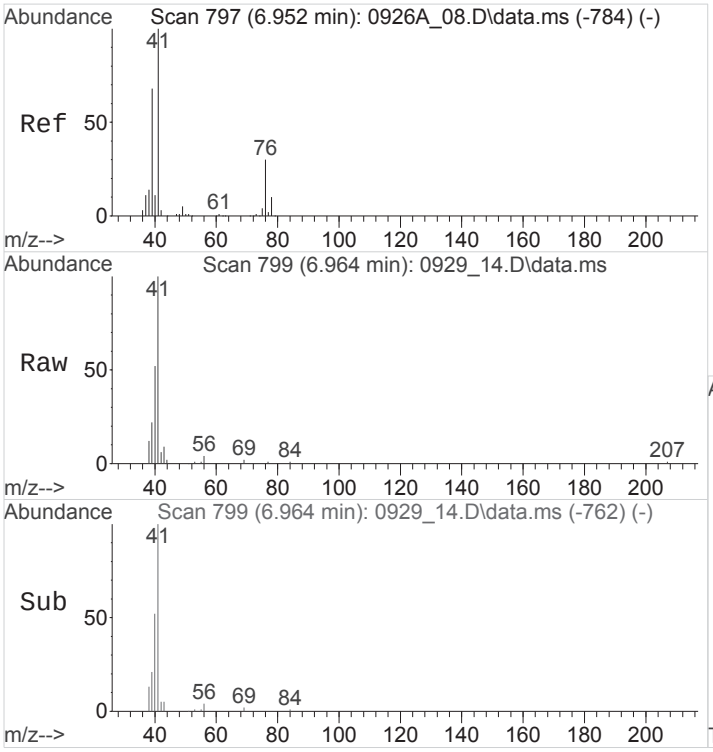


#19
Carbon Disulfide
Concen: 46.5923801 ppbv
RT: 6.774 min Scan# 768
Delta R.T. -0.002 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 76 Resp: 205524

Ion	Ratio	Lower	Upper
76	100		
44	13.3	14.2	21.2#

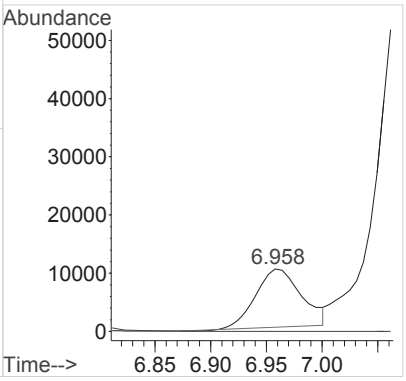


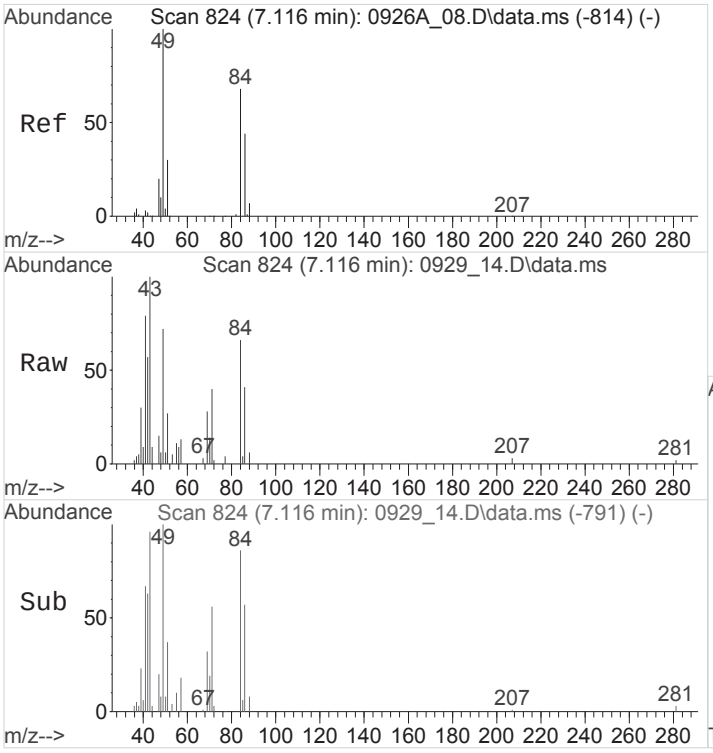


#20
Allyl Chloride
Concen: 112.3322836 ppbv
RT: 6.962 min Scan# 799
Delta R.T. 0.012 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 41 Resp: 274005

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#

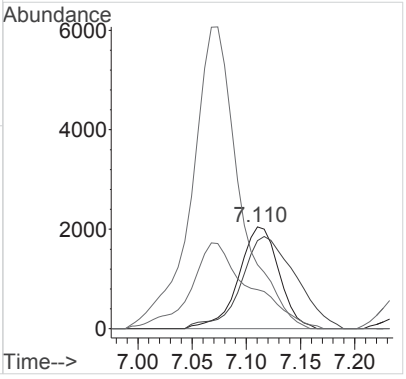


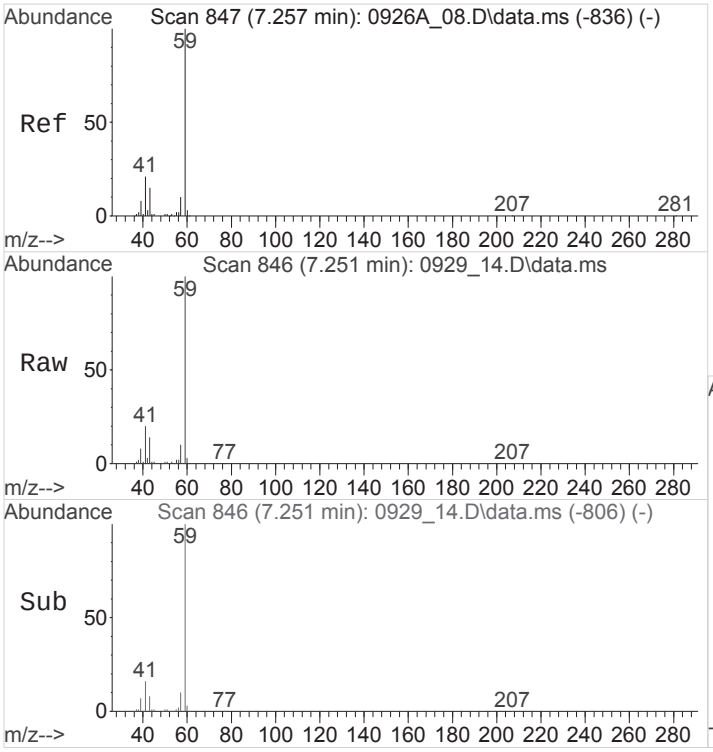


#21
Methylene Chloride
Concen: 25.3929798 ppbv
RT: 7.115 min Scan# 824
Delta R.T. -0.001 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 49 Resp: 53103

Ion	Ratio	Lower	Upper
49	100		
84	118.0	54.2	81.2#
86	353.4	35.1	52.7#
51	125.3	24.5	36.7#

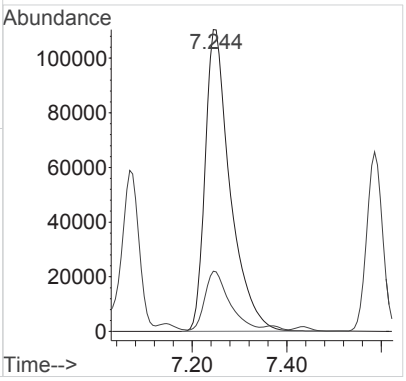


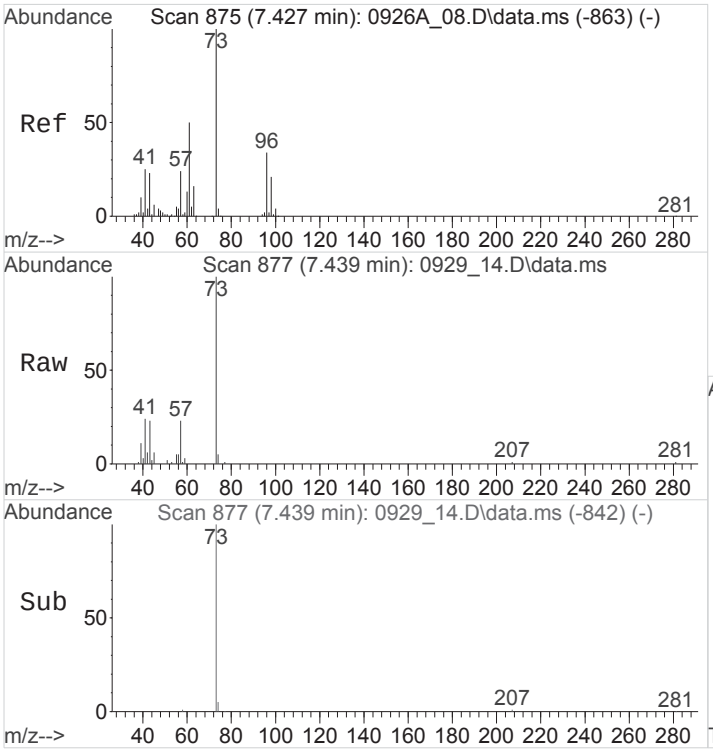


#22
TERT-BUTYL ALCOHOL
Concen: 1066.0390713 ppbv
RT: 7.250 min Scan# 846
Delta R.T. -0.005 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 59 Resp: 4067392

Ion	Ratio	Lower	Upper
59	100		
41	17.6	16.5	24.7

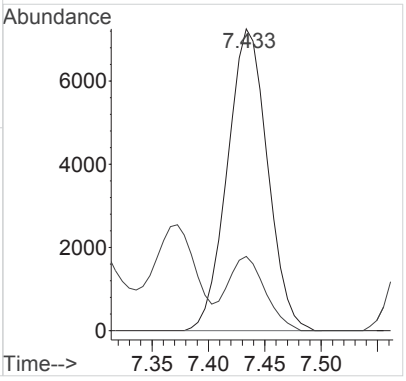


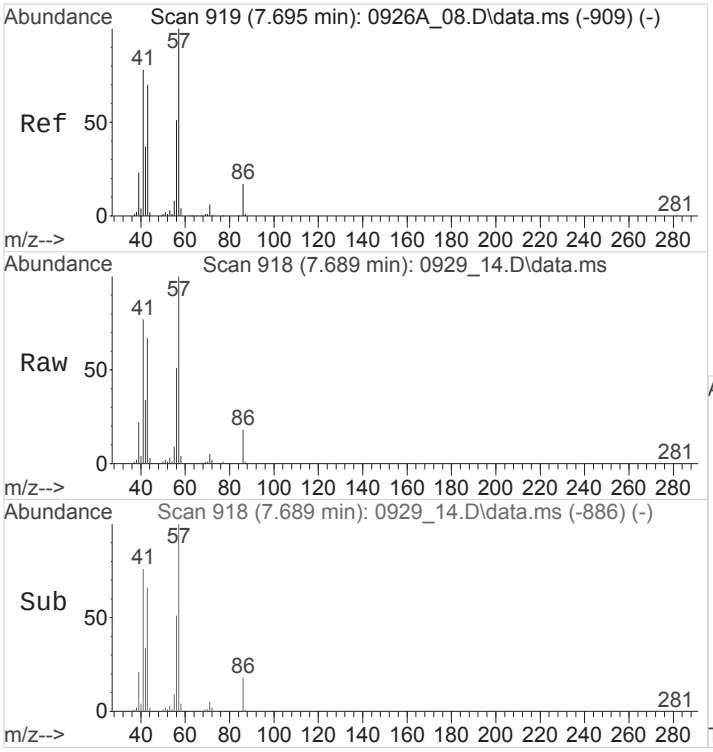


#23
Methyl Tert-Butyl Ether
Concen: 38.9228200 ppbv
RT: 7.437 min Scan# 877
Delta R.T. 0.011 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 73 Resp: 179982

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.5	29.3#

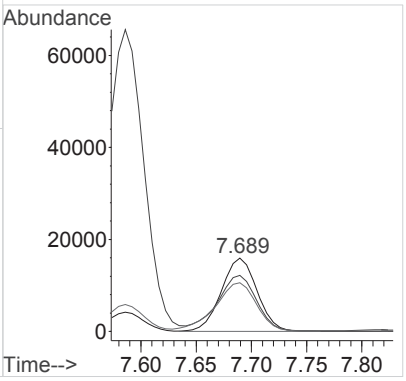


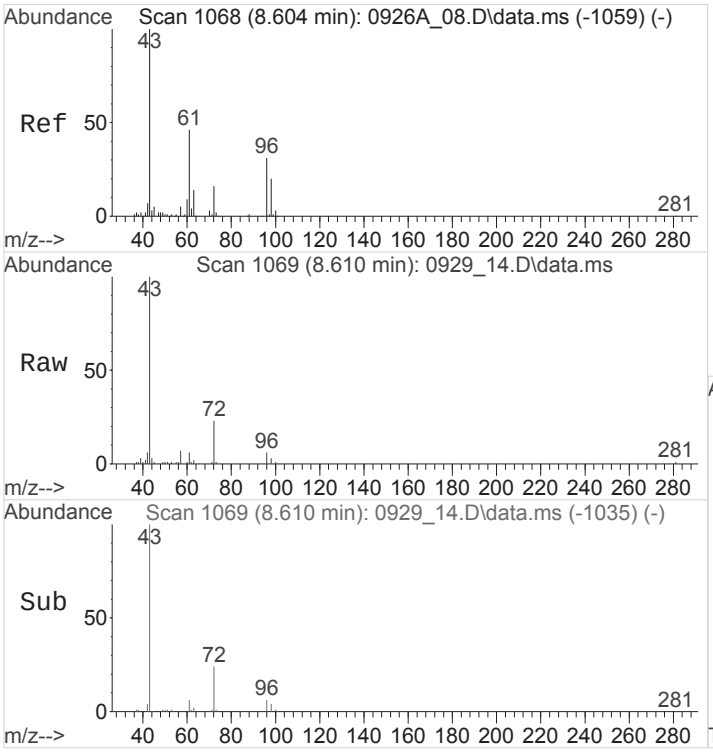


#25
n-Hexane
Concen: 133.6797850 ppbv
RT: 7.692 min Scan# 918
Delta R.T. -0.001 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 57 Resp: 359719

Ion	Ratio	Lower	Upper
57	100		
41	83.3	63.2	94.8
43	76.0	56.0	84.0

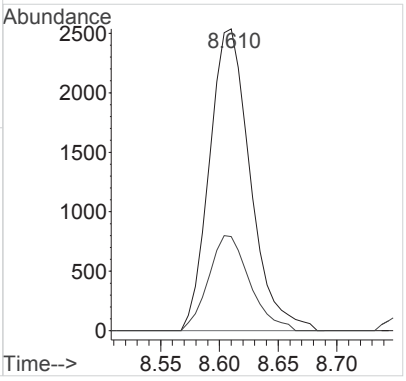


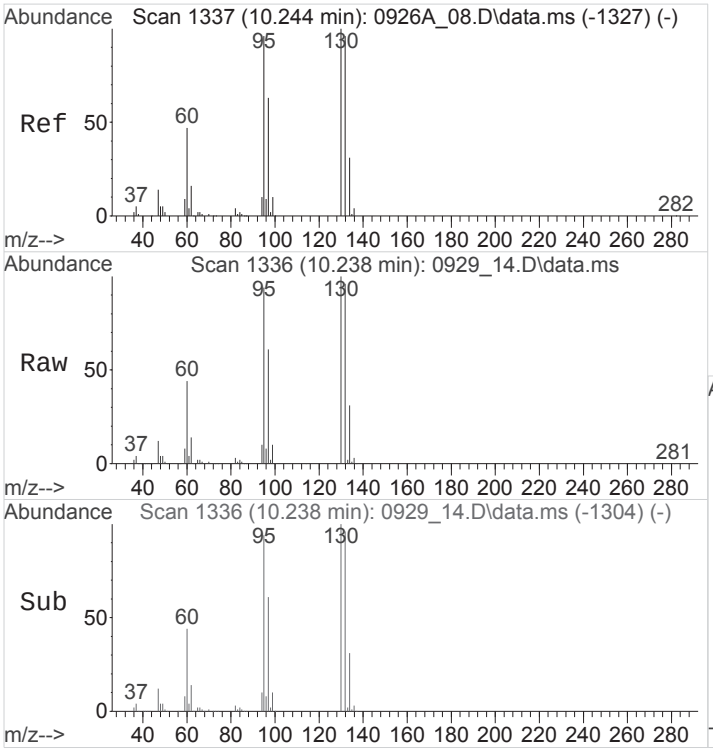


#29
2-Butanone (MEK)
Concen: 77.6726151 ppbv
RT: 8.610 min Scan# 1069
Delta R.T. 0.009 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 72 Resp: 61239

Ion	Ratio	Lower	Upper
72	100		
57	0.0	25.6	38.4#

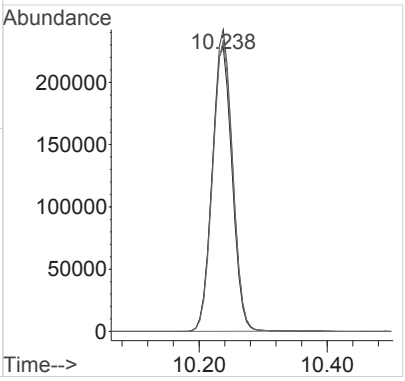


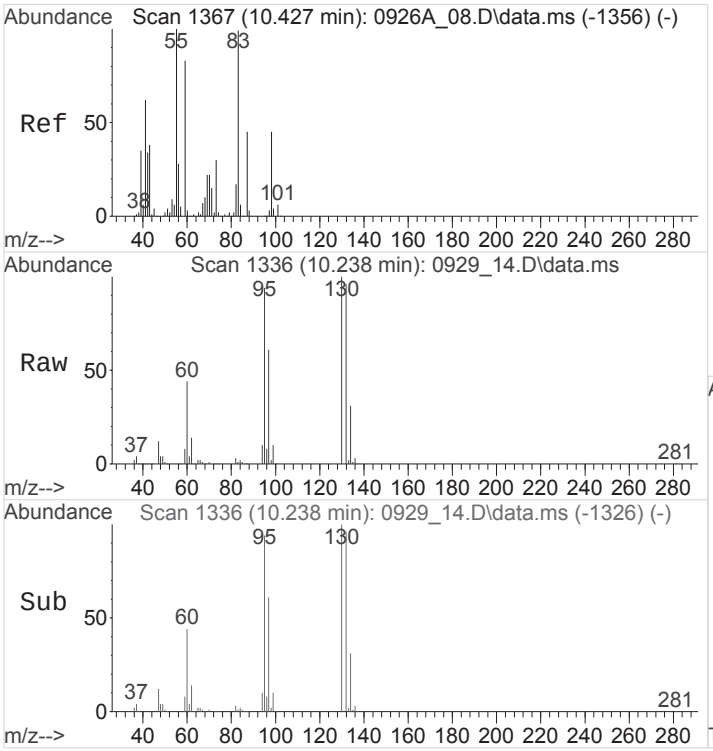


#41
Trichloroethene
Concen: 2450.3787356 ppbv
RT: 10.238 min Scan# 1336
Delta R.T. -0.003 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 95 Resp: 4939791

Ion	Ratio	Lower	Upper
95	100		
130	105.7	81.6	122.4
132	101.5	77.8	116.6

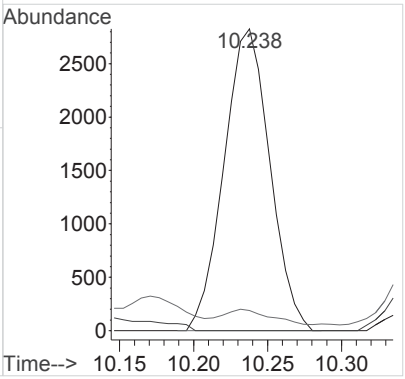


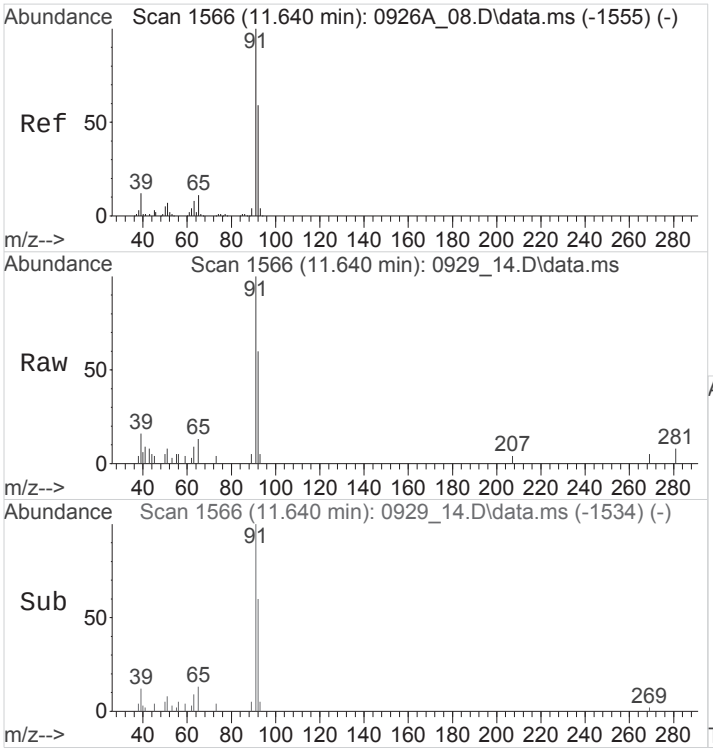


#43
METHYL CYCLOHEXANE
Concen: 21.3403500 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.187 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 83 Resp: 60965

Ion	Ratio	Lower	Upper
83	100		
55	0.0	91.4	137.0#
41	0.0	56.8	85.2#

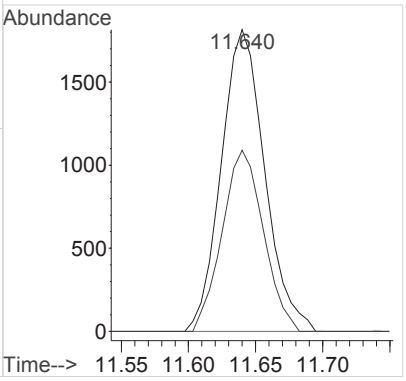


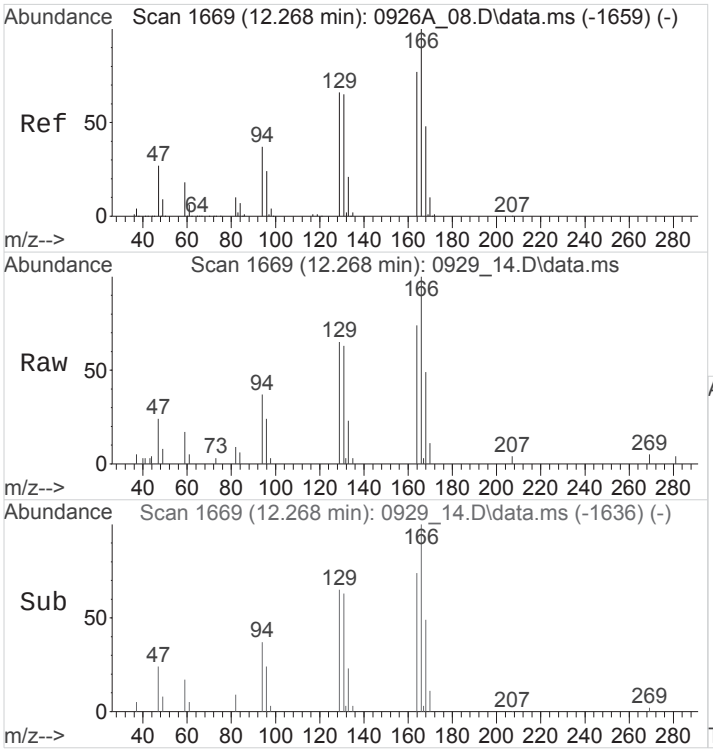


#50
Toluene
Concen: 6.6132964 ppbv
RT: 11.642 min Scan# 1566
Delta R.T. 0.000 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion: 91 Resp: 40823

Ion	Ratio	Lower	Upper
91	100		
92	0.0	46.6	70.0#

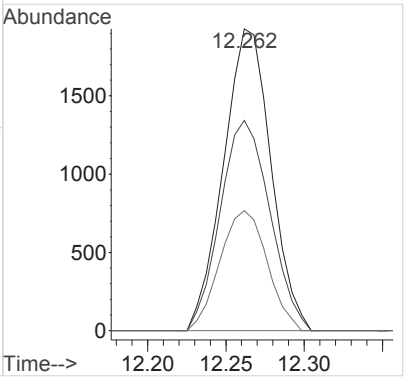


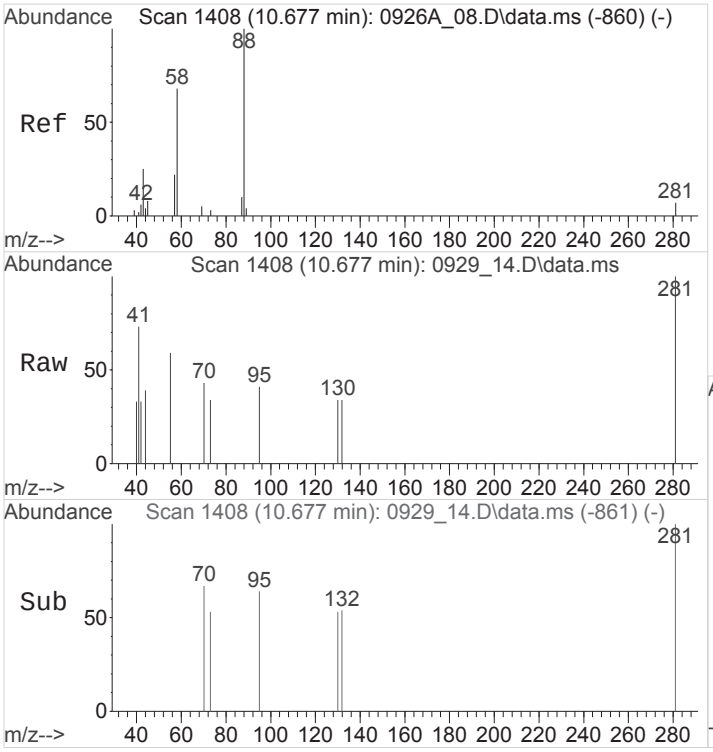


#53
Tetrachloroethene
Concen: 15.6148481 ppbv
RT: 12.267 min Scan# 1669
Delta R.T. 0.000 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion:166 Resp: 40674

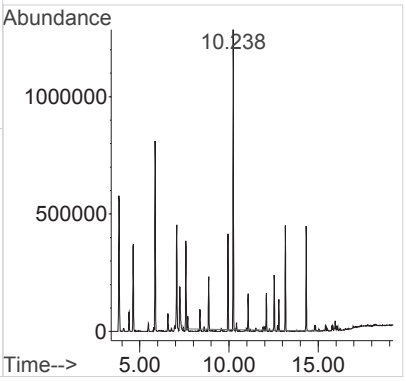
Ion	Ratio	Lower	Upper
166	100		
129	72.7	55.0	82.6
94	0.0	31.3	46.9#





#84
TPH (GC/MS) Low Fraction
Concen: 2832.2541943 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_14.D
Acq: 29 Sep 2016 5:24 pm

Tgt Ion:TIC Resp:34769583



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_15.D
Acq On : 29 Sep 2016 6:06 pm
Operator : 564
Sample : L861822-12 800x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 800
InstName : AIRMS2

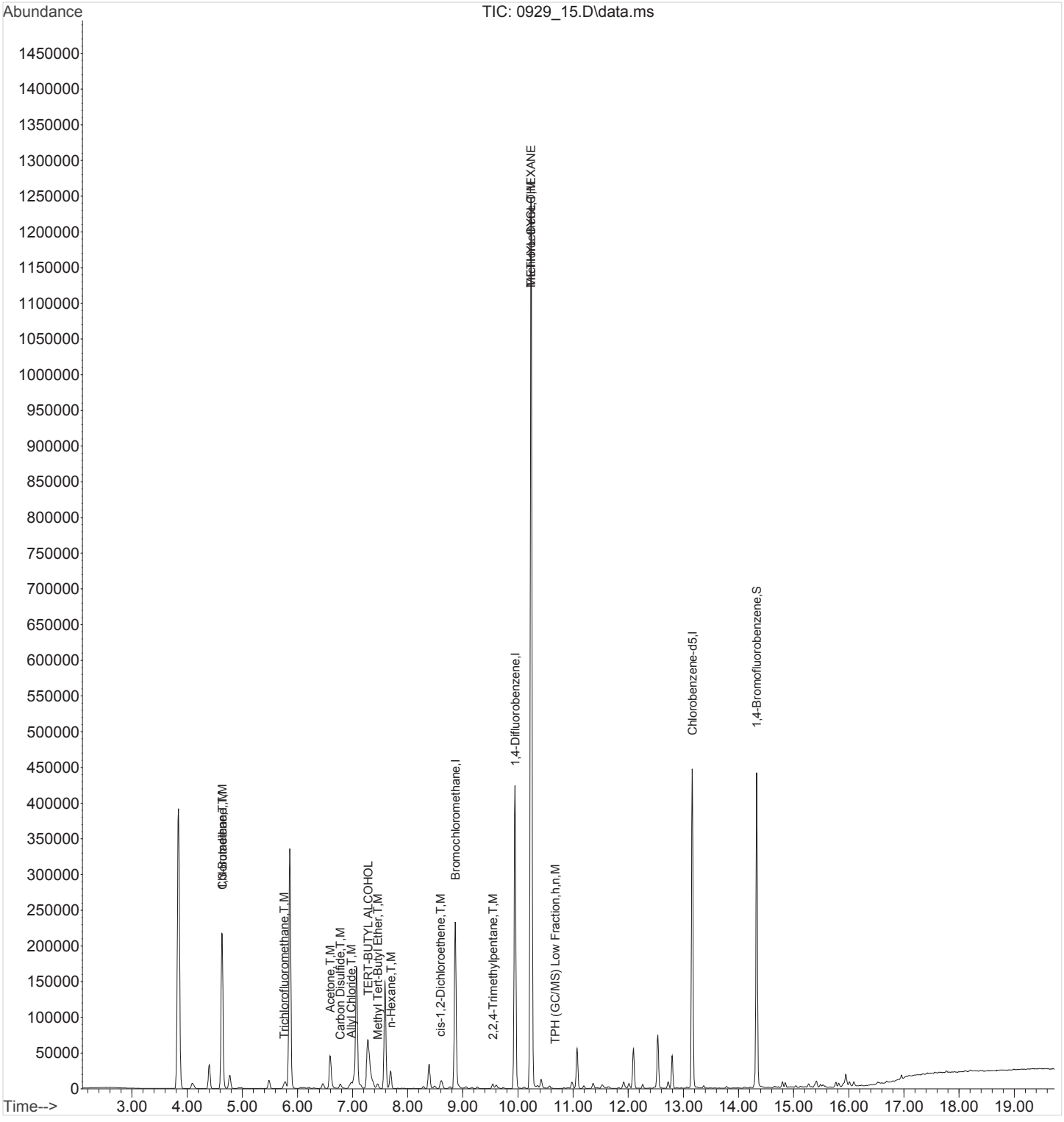
Quant Time: Sep 30 06:15:07 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

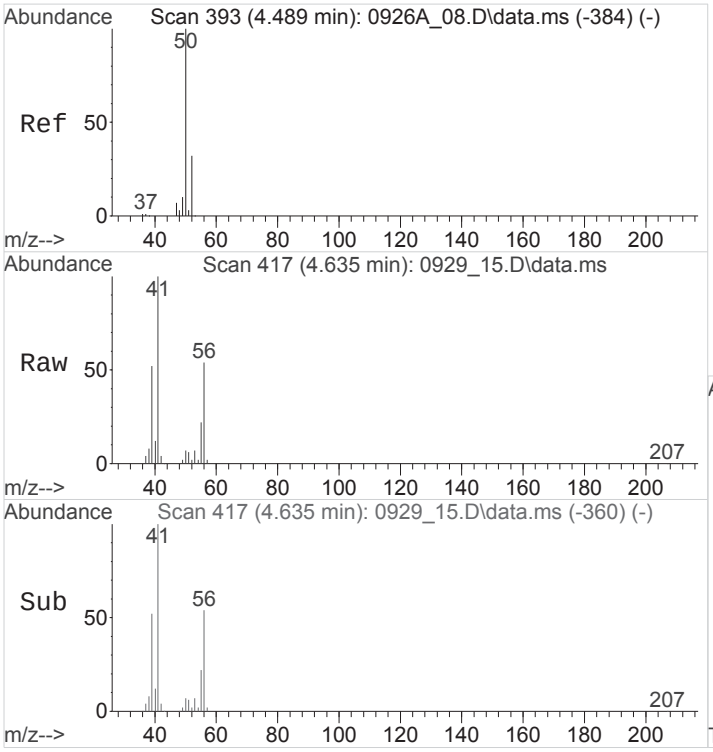
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.866	130	1003436	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.949	114	4053689	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.163	117	2855616	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.331	95	1633458	3.6818471	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 92.05%			
Target Compounds						Qvalue
7) Chloromethane	4.635	50	99093	453.2346348	ppbv #	80
9) 1,3-Butadiene	4.634	39	951026	4792.1252670	ppbv #	9
13) Trichlorofluoromethane	5.760	101	68387	170.8097316	ppbv	97
17) Acetone	6.596	43	795528	1232.5329021	ppbv	97
19) Carbon Disulfide	6.778	76	100299	179.3378679	ppbv #	60
20) Allyl Chloride	6.979	41	120359	389.1781960	ppbv #	45
22) TERT-BUTYL ALCOHOL	7.280	59	1692533	3498.7851621	ppbv	99
23) Methyl Tert-Butyl Ether	7.457	73	73332	125.0811315	ppbv #	51
25) n-Hexane	7.693	57	130151	381.4799333	ppbv #	45
30) cis-1,2-Dichloroethene	8.600	61	56205	160.5011109	ppbv #	71
36) 2,2,4-Trimethylpentane	9.546	57	67036	58.7983099	ppbv #	70
41) Trichloroethene	10.240	95	4746414	18447.1666342	ppbv	96
43) METHYL CYCLOHEXANE	10.239	83	58629	160.7957412	ppbv #	2
84) TPH (GC/MS) Low Fraction	10.675	TIC	5155750m	3373.0630742	ppbv	

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

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_15.D
Acq On : 29 Sep 2016 6:06 pm
Operator : 564
Sample : L861822-12 800x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 15 Sample Multiplier: 800
InstName : AIRMS2

Quant Time: Sep 30 06:15:07 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

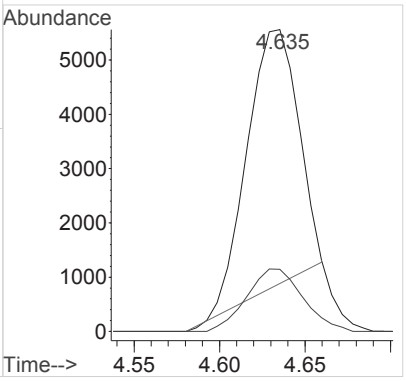


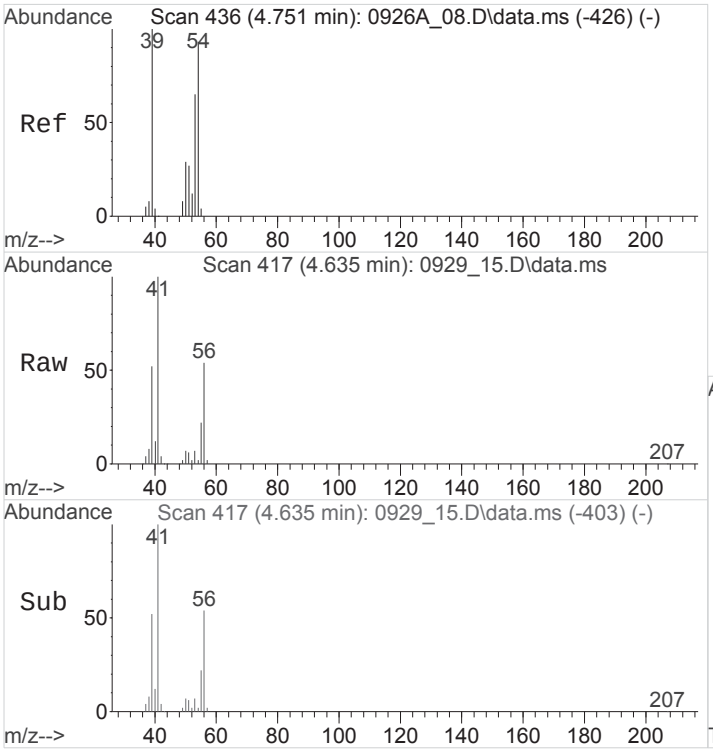


#7
Chloromethane
Concen: 453.2346348 ppbv
RT: 4.635 min Scan# 417
Delta R.T. 0.147 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 50 Resp: 99093

Ion	Ratio	Lower	Upper
50	100		
52	20.8	25.4	38.0#

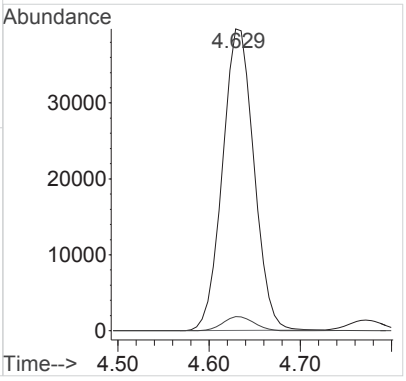


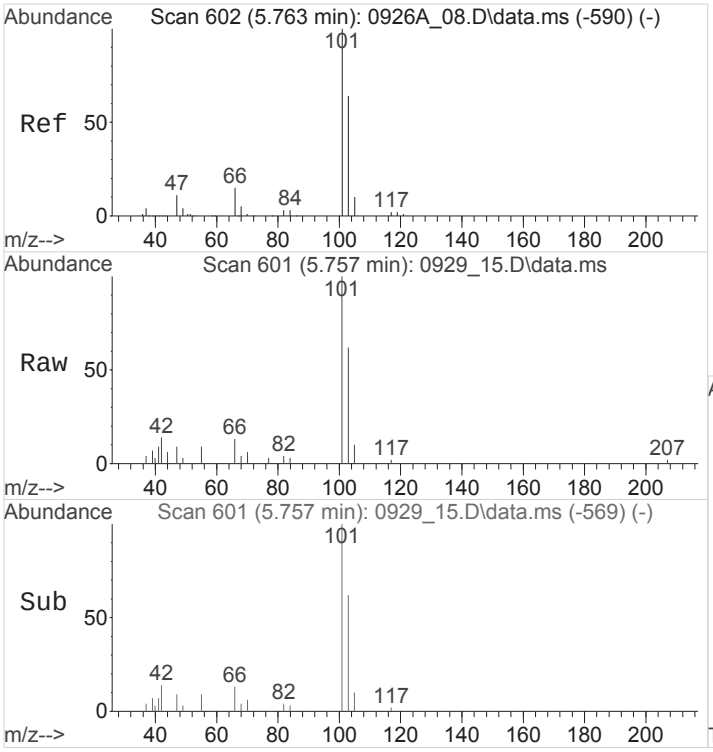


#9
1,3-Butadiene
Concen: 4792.1252670 ppbv
RT: 4.634 min Scan# 417
Delta R.T. -0.117 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 39 Resp: 951026

Ion	Ratio	Lower	Upper
39	100		
54	4.6	73.4	110.0#

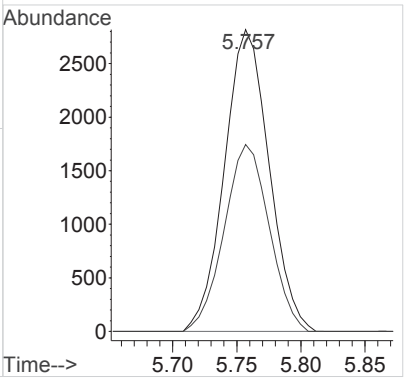


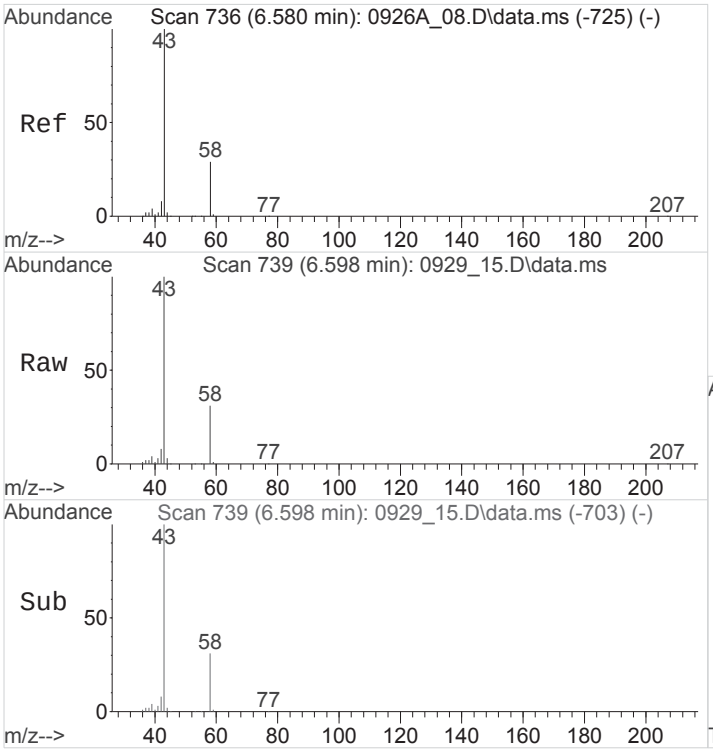


#13
Trichlorofluoromethane
Concen: 170.8097316 ppbv
RT: 5.760 min Scan# 601
Delta R.T. -0.001 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion:101 Resp: 68387

Ion	Ratio	Lower	Upper
101	100		
103	62.4	51.7	77.5

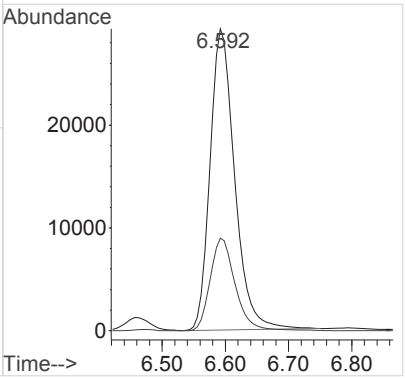


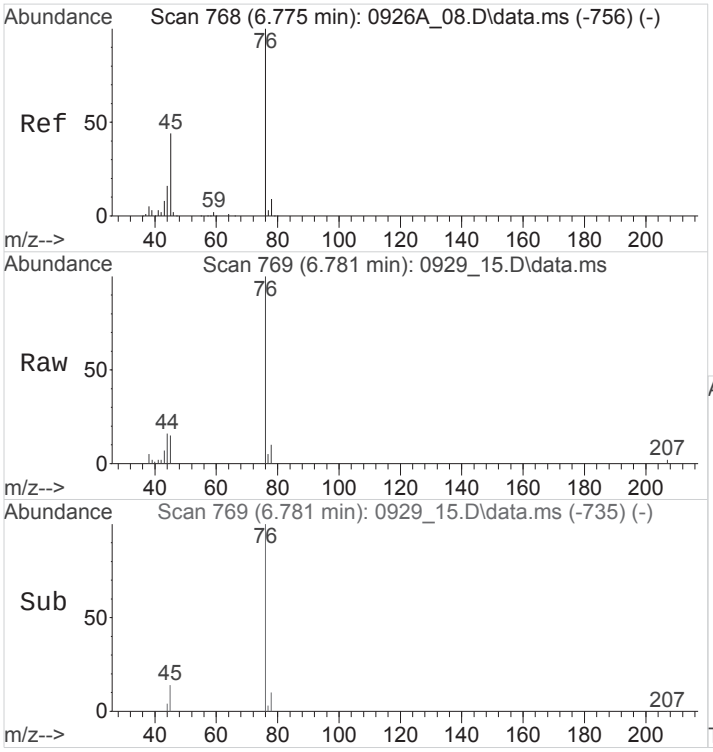


#17
Acetone
Concen: 1232.5329021 ppbv
RT: 6.596 min Scan# 739
Delta R.T. 0.017 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 43 Resp: 795528

Ion	Ratio	Lower	Upper
43	100		
58	30.5	23.1	34.7

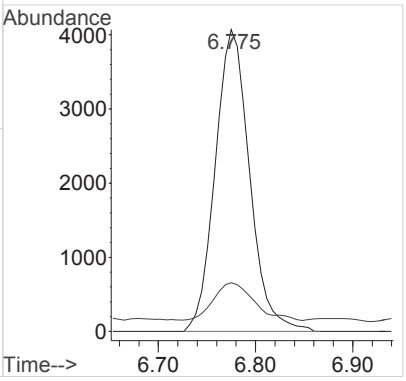


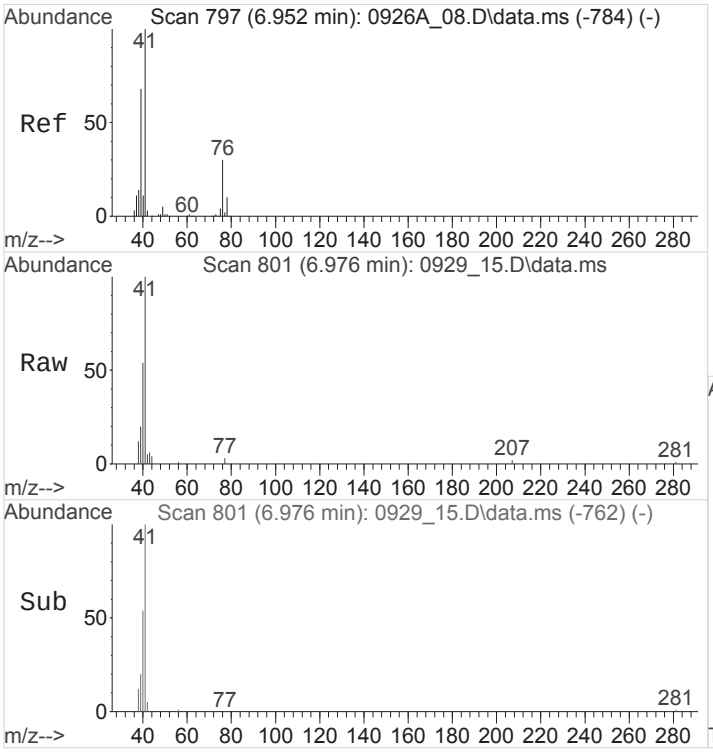


#19
Carbon Disulfide
Concen: 179.3378679 ppbv
RT: 6.778 min Scan# 769
Delta R.T. 0.003 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 76 Resp: 100299

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.2	21.2#

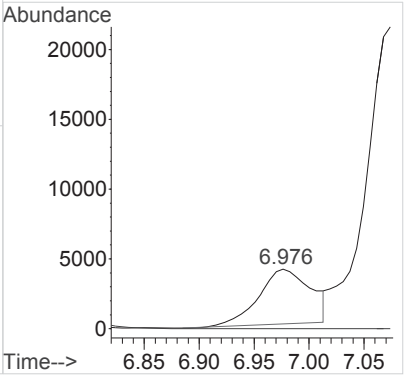


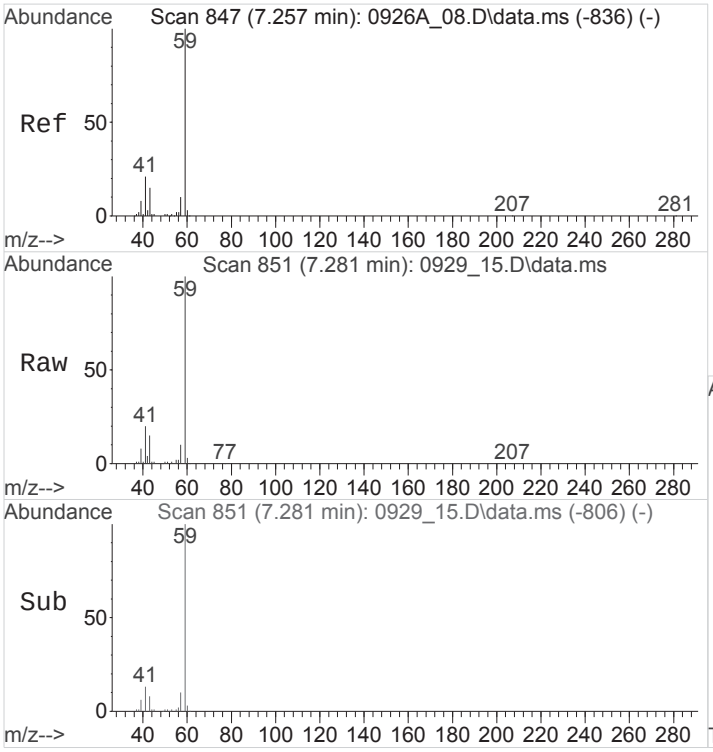


#20
Allyl Chloride
Concen: 389.1781960 ppbv
RT: 6.979 min Scan# 801
Delta R.T. 0.029 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 41 Resp: 120359

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#

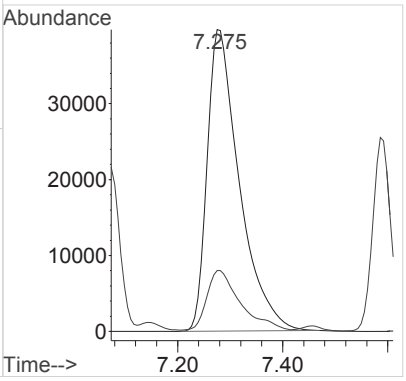


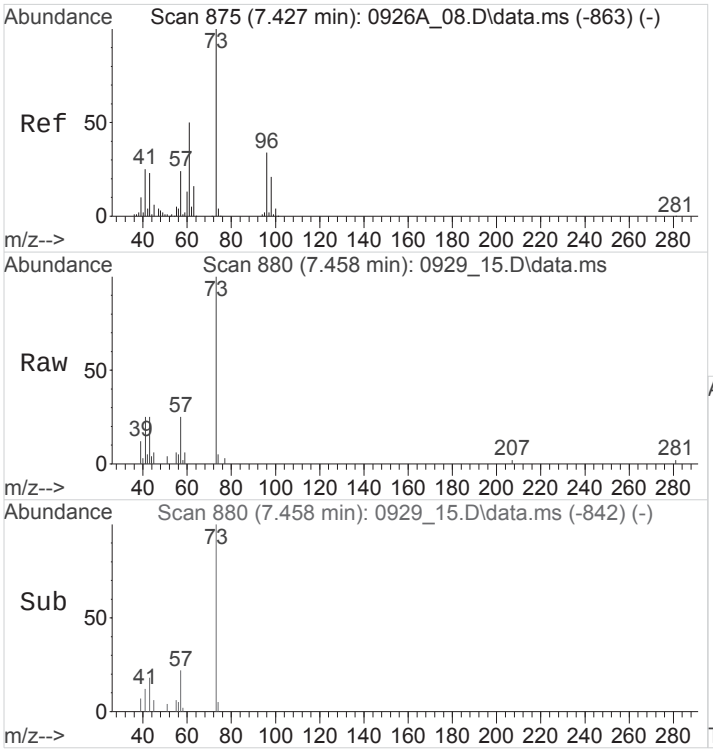


#22
TERT-BUTYL ALCOHOL
Concen: 3498.7851621 ppbv
RT: 7.280 min Scan# 851
Delta R.T. 0.025 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 59 Resp: 1692533

Ion	Ratio	Lower	Upper
59	100		
41	19.9	16.5	24.7

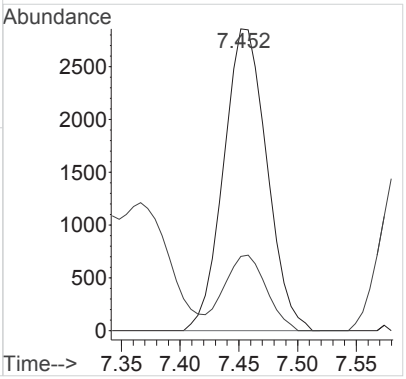


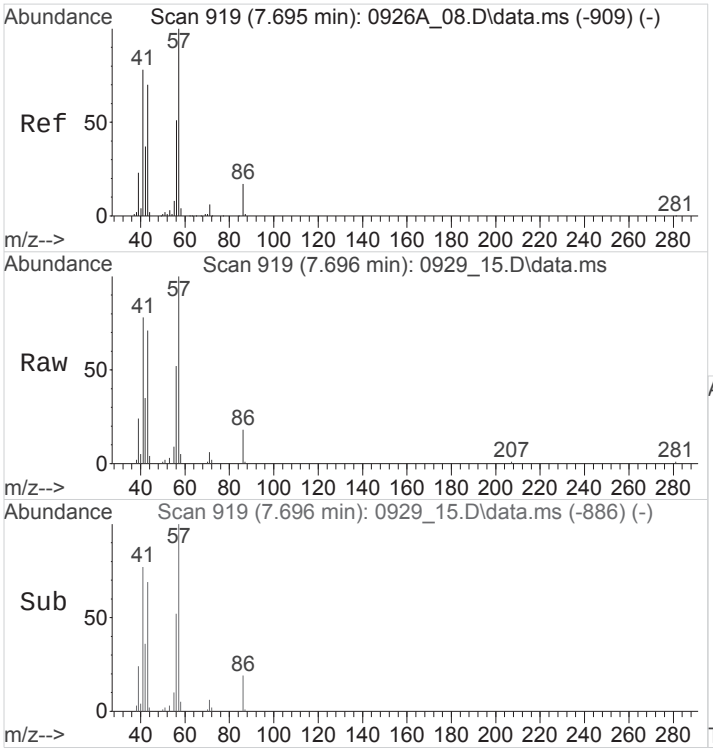


#23
Methyl Tert-Butyl Ether
Concen: 125.0811315 ppbv
RT: 7.457 min Scan# 880
Delta R.T. 0.031 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 73 Resp: 73332

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.5	29.3#

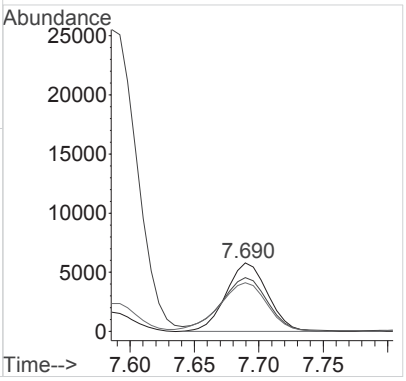


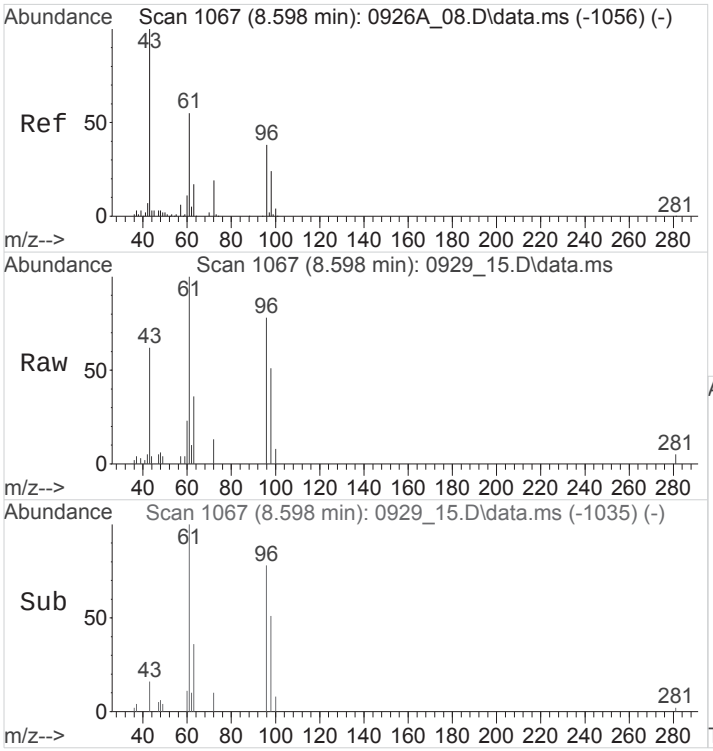


#25
n-Hexane
Concen: 381.4799333 ppbv
RT: 7.693 min Scan# 919
Delta R.T. 0.000 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 57 Resp: 130151

Ion	Ratio	Lower	Upper
57	100		
41	0.0	63.2	94.8#
43	83.1	56.0	84.0

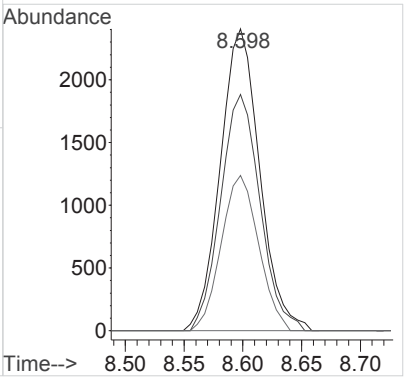


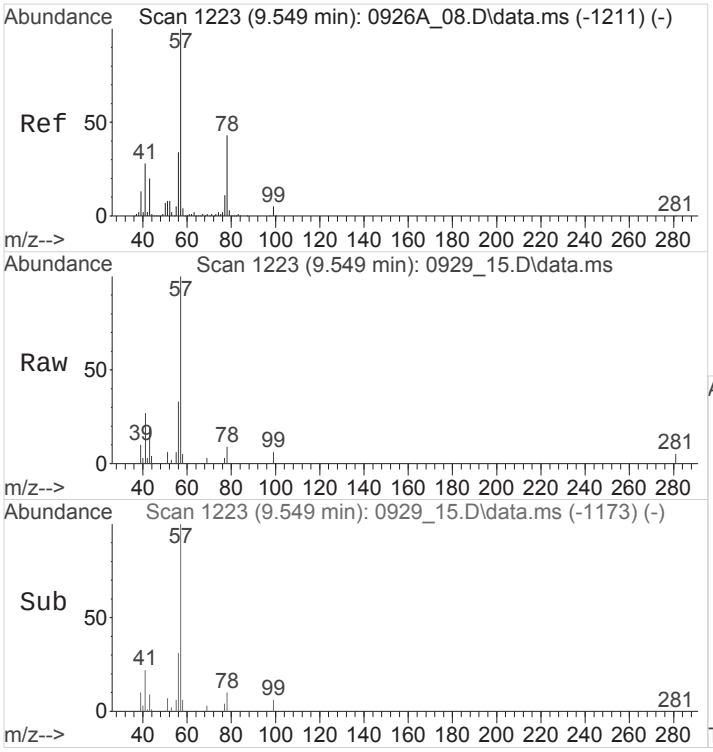


#30
cis-1,2-Dichloroethene
Concen: 160.5011109 ppbv
RT: 8.600 min Scan# 1067
Delta R.T. -0.001 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 61 Resp: 56205

Ion	Ratio	Lower	Upper
61	100		
96	78.0	43.5	65.3#
98	48.8	27.8	41.8#

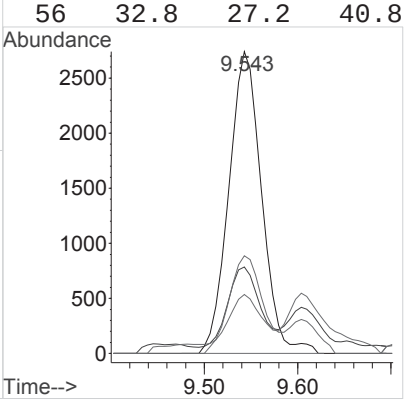


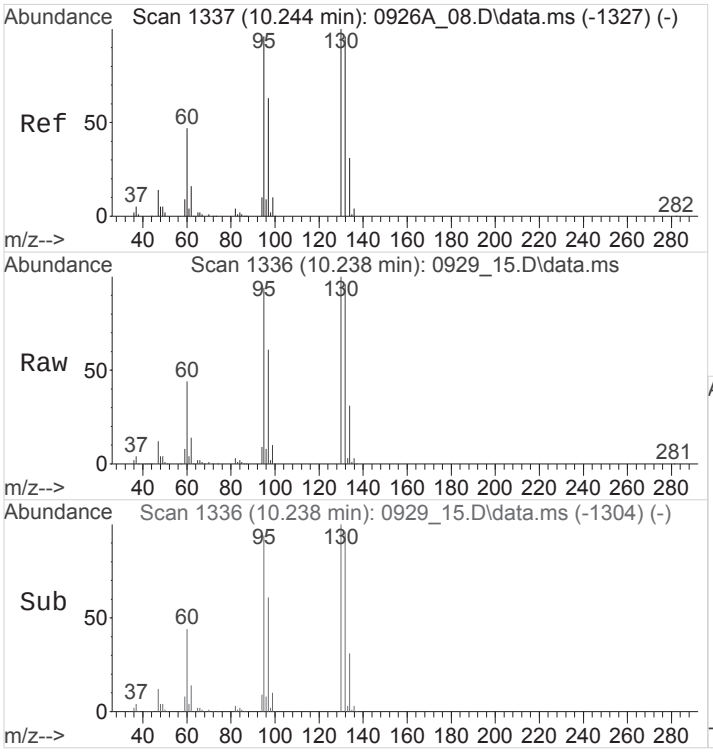


#36
2,2,4-Trimethylpentane
Concen: 58.7983099 ppbv
RT: 9.546 min Scan# 1223
Delta R.T. -0.001 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 57 Resp: 67036

Ion	Ratio	Lower	Upper
57	100		
41	0.0	22.7	34.1#
43	0.0	16.6	25.0#
56	32.8	27.2	40.8

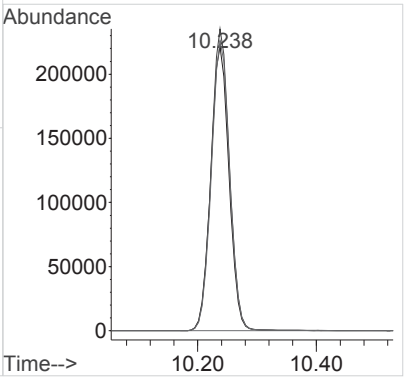


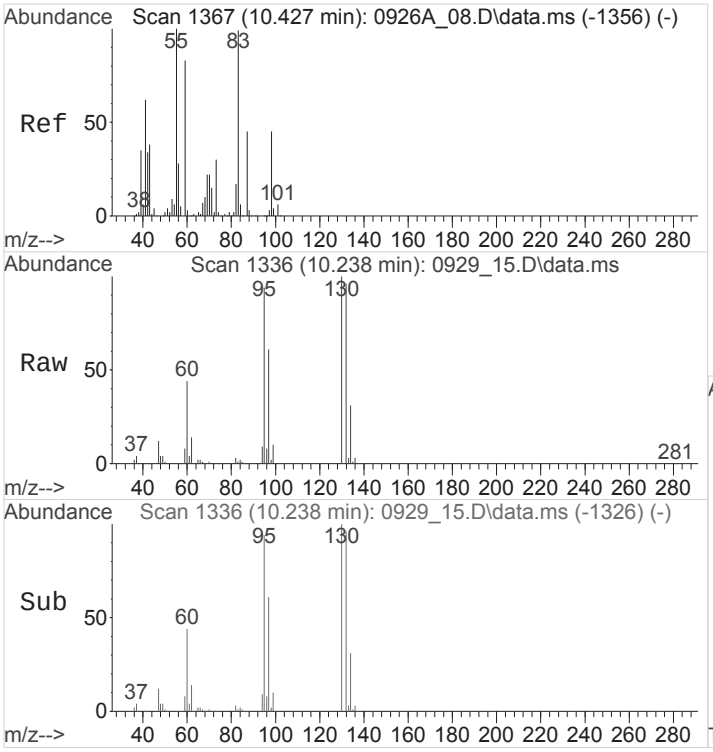


#41
Trichloroethene
Concen: 18447.1666342 ppbv
RT: 10.240 min Scan# 1336
Delta R.T. -0.001 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 95 Resp: 4746414

Ion	Ratio	Lower	Upper
95	100		
130	105.9	81.6	122.4
132	101.7	77.8	116.6

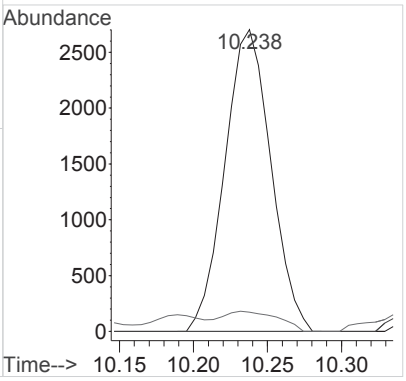


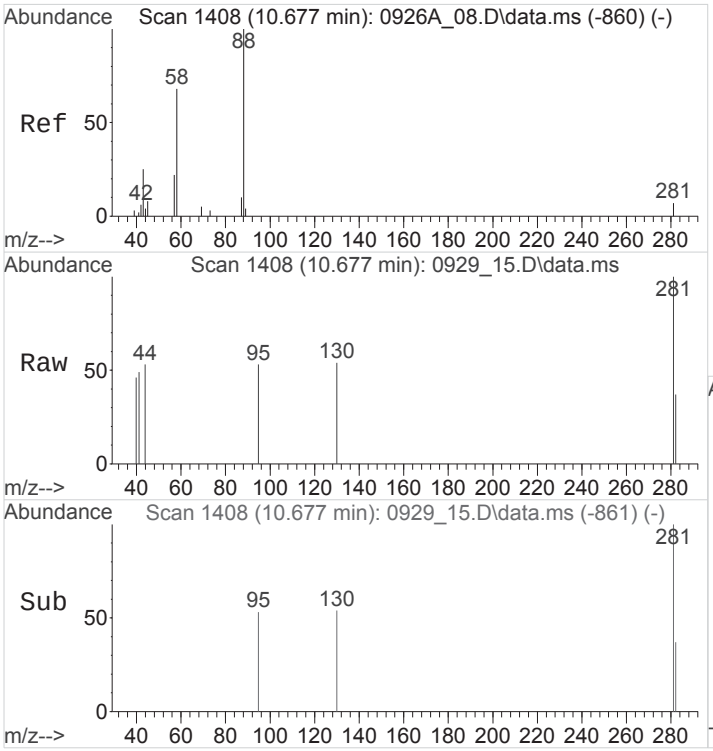


#43
METHYL CYCLOHEXANE
Concen: 160.7957412 ppbv
RT: 10.239 min Scan# 1336
Delta R.T. -0.187 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion: 83 Resp: 58629

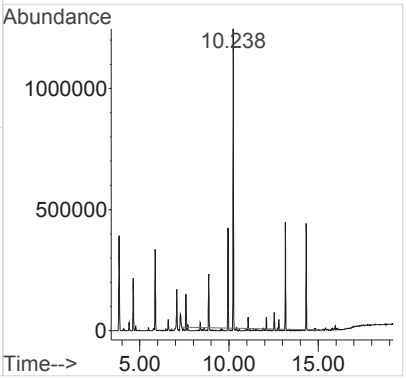
Ion	Ratio	Lower	Upper
83	100		
55	0.0	91.4	137.0#
41	0.0	56.8	85.2#





#84
TPH (GC/MS) Low Fraction
Concen: 3373.0630742 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_15.D
Acq: 29 Sep 2016 6:06 pm

Tgt Ion:TIC Resp: 5155750



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_16.D
Acq On : 29 Sep 2016 6:49 pm
Operator : 564
Sample : L861822-15 80x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 80
InstName : AIRMS2

Quant Time: Sep 30 06:15:12 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

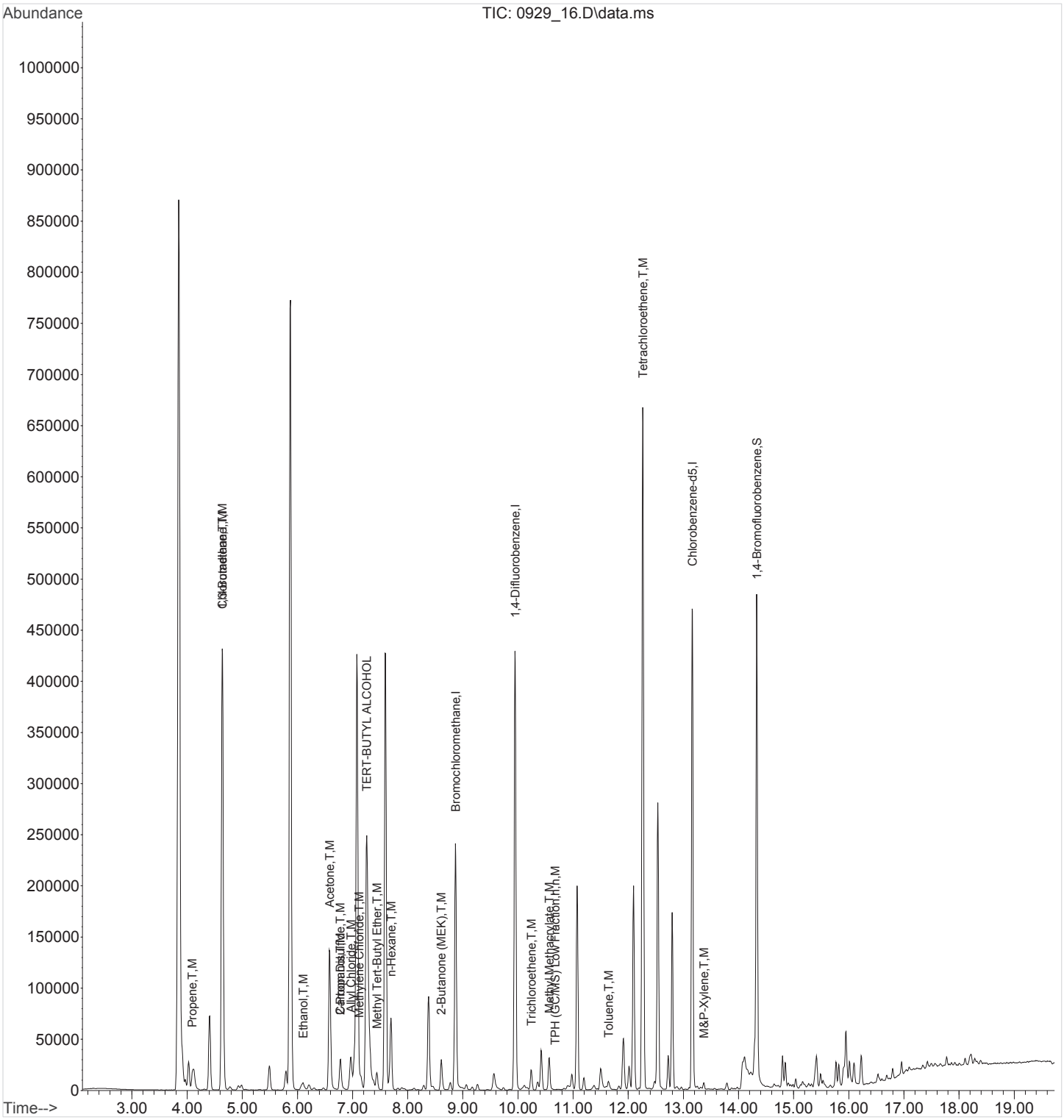
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.871	130	1025746	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.950	114	4122429	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3033362	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	1776515	3.7696599	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 94.24%				
Target Compounds							Qvalue
2) Propene	4.095	41	46667	21.1552998	ppbv	#	46
7) Chloromethane	4.641	50	150524	67.3496338	ppbv	#	83
9) 1,3-Butadiene	4.640	39	1882343	927.8635509	ppbv	#	8
14) Ethanol	6.105	45	110624	299.2692159	ppbv		100
17) Acetone	6.585	43	2225478	337.2996728	ppbv		97
18) 2-Propanol	6.780	45	113823	25.5405237	ppbv	#	74
19) Carbon Disulfide	6.781	76	454460	79.4914321	ppbv	#	91
20) Allyl Chloride	6.972	41	401771	127.0862582	ppbv	#	45
21) Methylene Chloride	7.125	49	77217	28.4892042	ppbv	#	1
22) TERT-BUTYL ALCOHOL	7.260	59	5152731	1041.9991328	ppbv		97
23) Methyl Tert-Butyl Ether	7.443	73	189590	31.6345957	ppbv	#	51
25) n-Hexane	7.700	57	388388	111.3631261	ppbv		89
29) 2-Butanone (MEK)	8.613	72	104367	102.1352883	ppbv		99
41) Trichloroethene	10.242	95	79631	30.4327221	ppbv		97
45) Methyl Methacrylate	10.567	69	142678	58.9336501	ppbv		97
50) Toluene	11.644	91	66753	8.3315517	ppbv		99
53) Tetrachloroethene	12.267	166	2629364	777.6930668	ppbv		98
59) Ethylbenzene	13.372	91	39668	4.3428903	ppbv	#	65
60) M&P-Xylene	13.372	91	39663	5.7458929	ppbv	#	28
84) TPH (GC/MS) Low Fraction	10.675	TIC	22114166m	1362.0052881	ppbv		

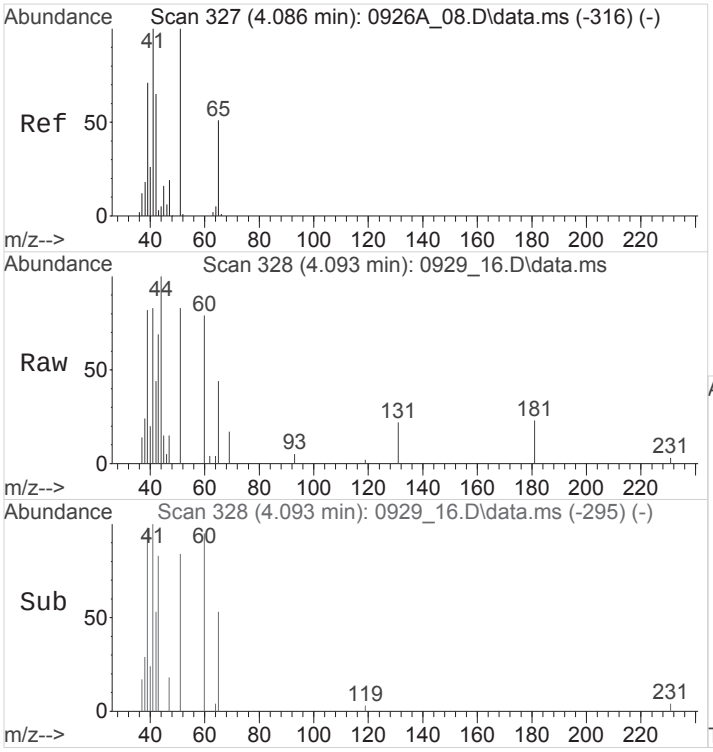
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092916\
Data File : 0929_16.D
Acq On : 29 Sep 2016 6:49 pm
Operator : 564
Sample : L861822-15 80x WG912392 TO-15
Misc : BV032517K1389
ALS Vial : 16 Sample Multiplier: 80
InstName : AIRMS2

Quant Time: Sep 30 06:15:12 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

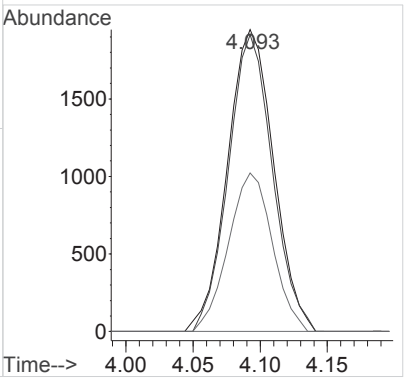


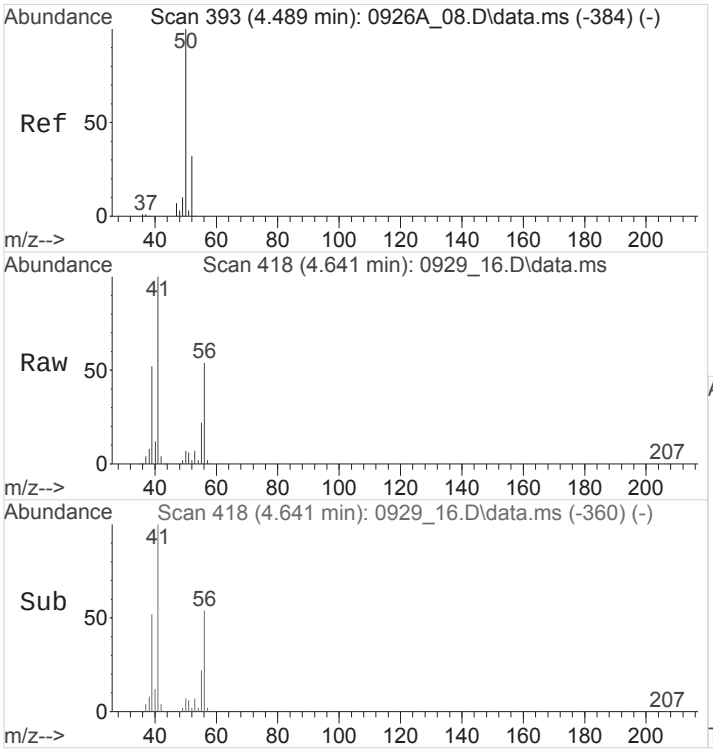


#2
Propene
Concen: 21.1552998 ppbv
RT: 4.095 min Scan# 328
Delta R.T. 0.006 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 41 Resp: 46667

Ion	Ratio	Lower	Upper
41	100		
39	93.6	56.5	84.7#
42	0.0	52.2	78.4#

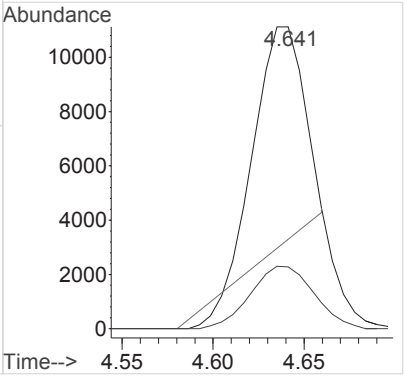


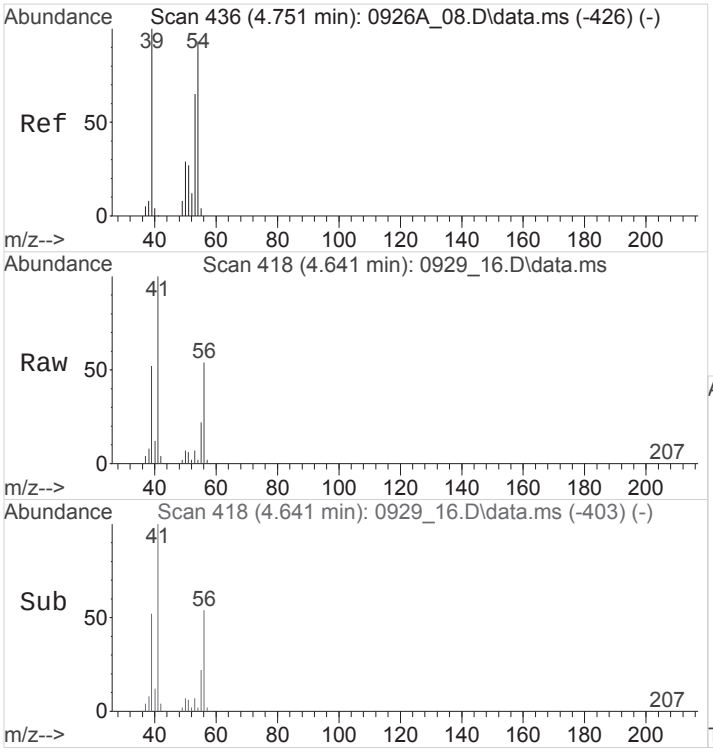


#7
Chloromethane
Concen: 67.3496338 ppbv
RT: 4.641 min Scan# 418
Delta R.T. 0.153 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 50 Resp: 150524

Ion	Ratio	Lower	Upper
50	100		
52	22.3	25.4	38.0#

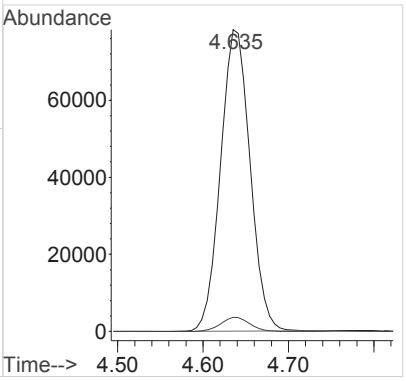


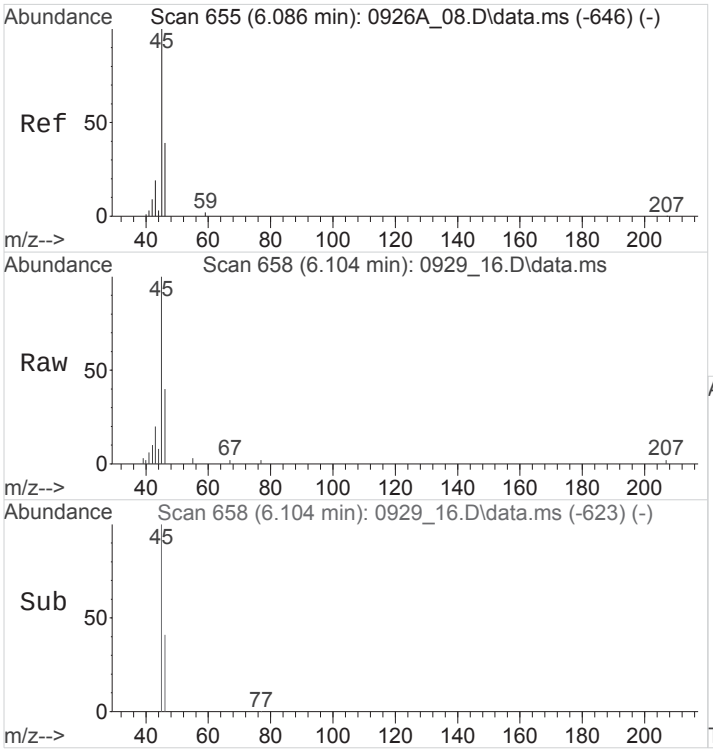


#9
1,3-Butadiene
Concen: 927.8635509 ppbv
RT: 4.640 min Scan# 418
Delta R.T. -0.111 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 39 Resp: 1882343

Ion	Ratio	Lower	Upper
39	100		
54	4.6	73.4	110.0#

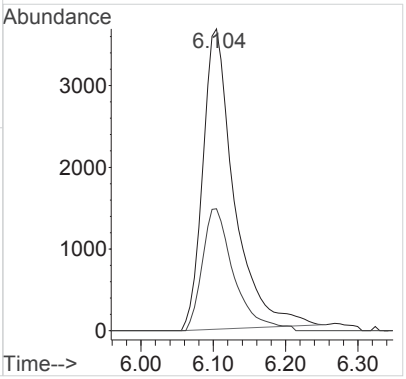


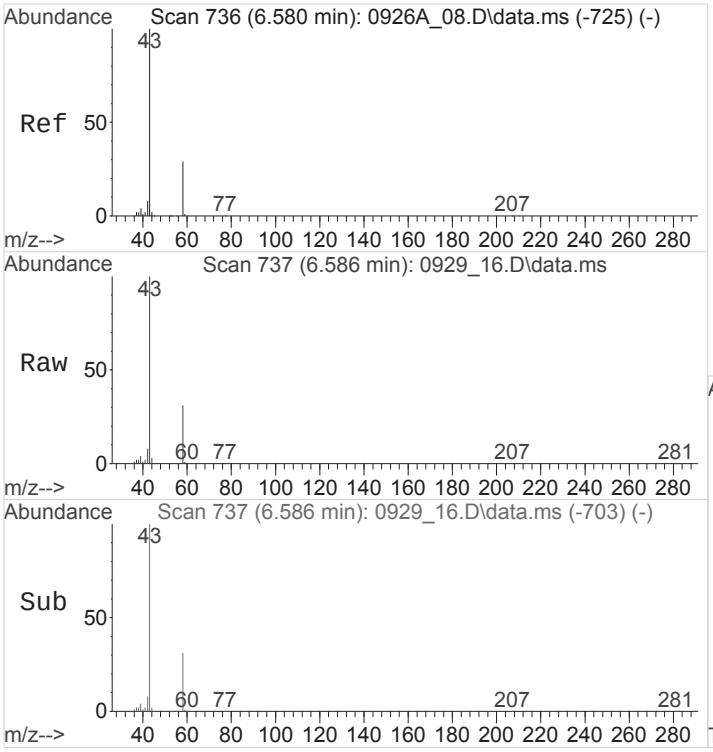


#14
Ethanol
Concen: 299.2692159 ppbv
RT: 6.105 min Scan# 658
Delta R.T. 0.017 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 45 Resp: 110624

Ion	Ratio	Lower	Upper
45	100		
46	41.1	33.0	49.4

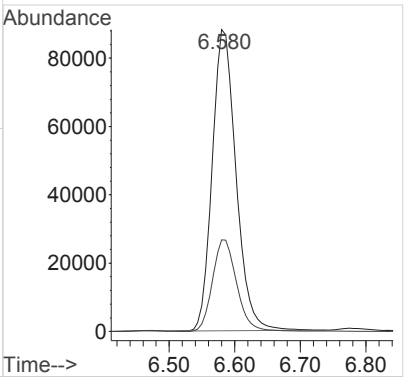


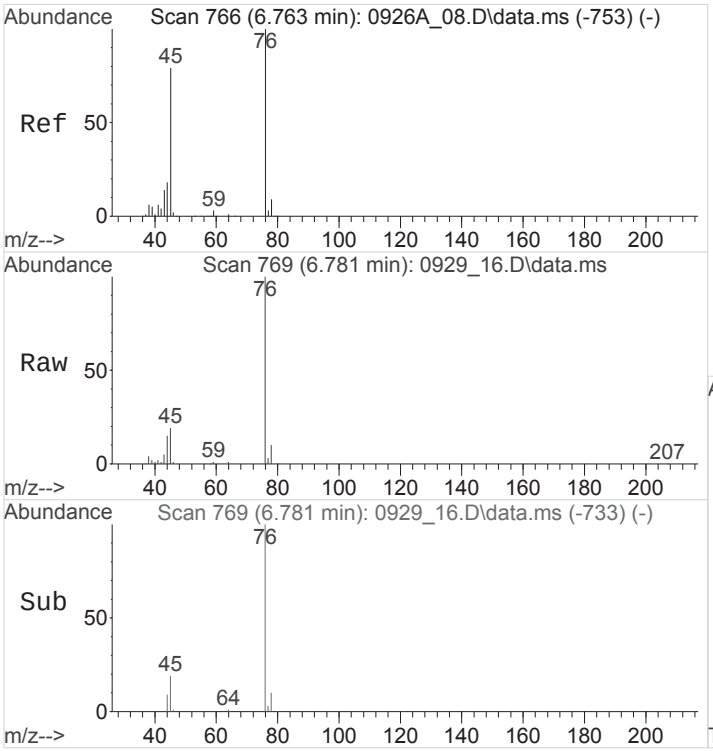


#17
Acetone
Concen: 337.2996728 ppbv
RT: 6.585 min Scan# 737
Delta R.T. 0.006 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 43 Resp: 2225478

Ion	Ratio	Lower	Upper
43	100		
58	30.5	23.1	34.7

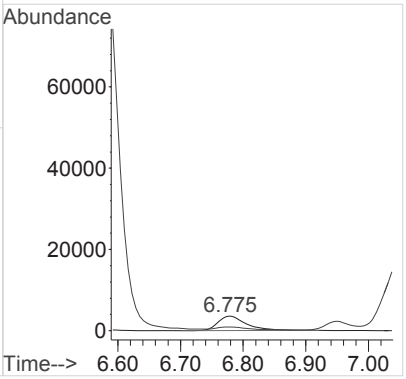


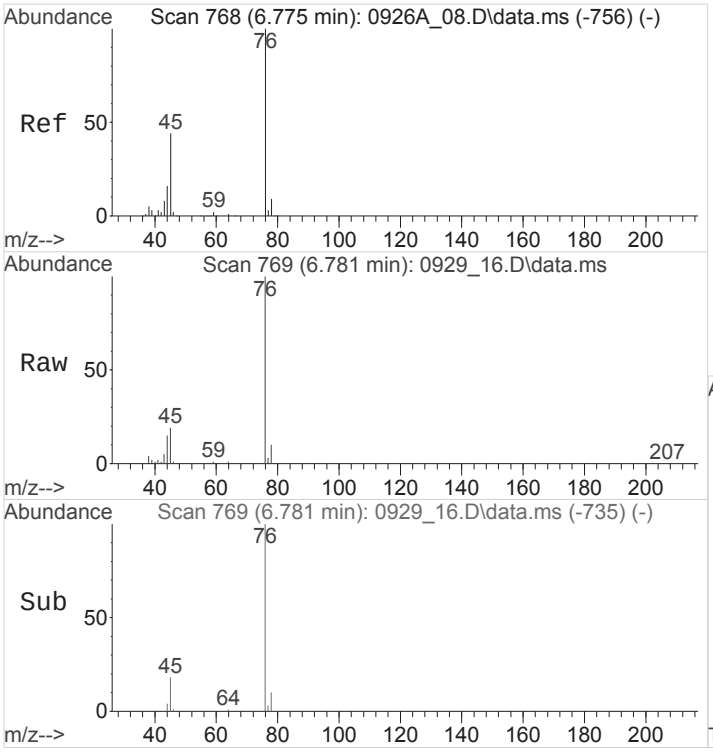


#18
2-Propanol
Concen: 25.5405237 ppbv
RT: 6.780 min Scan# 769
Delta R.T. 0.020 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 45 Resp: 113823

Ion	Ratio	Lower	Upper
45	100		
43	0.0	7.7	11.5#

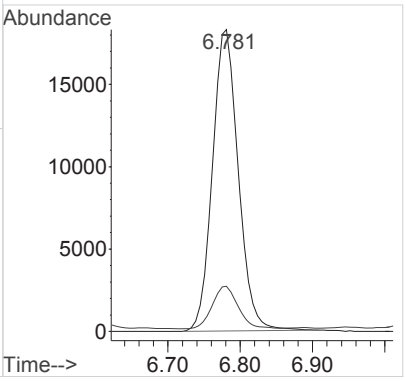


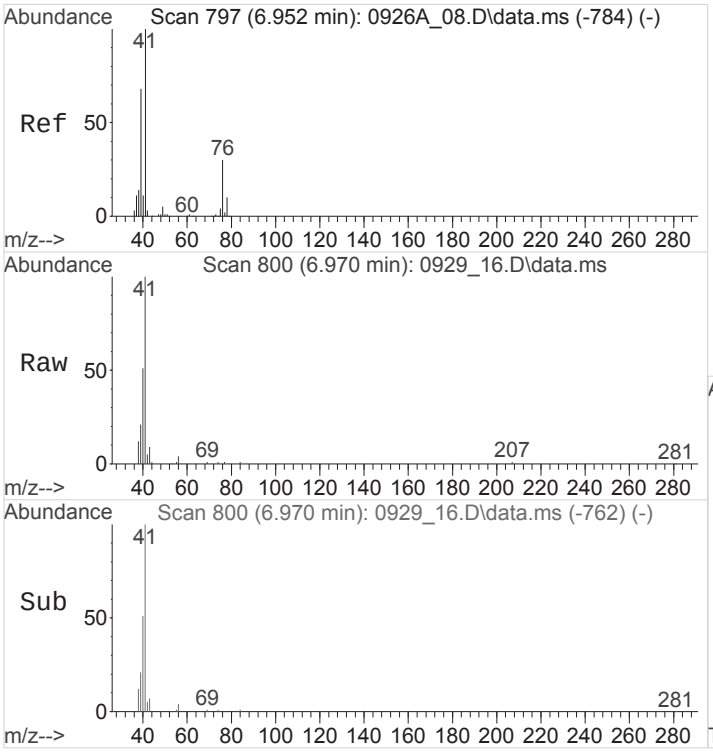


#19
Carbon Disulfide
Concen: 79.4914321 ppbv
RT: 6.781 min Scan# 769
Delta R.T. 0.006 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 76 Resp: 454460

Ion	Ratio	Lower	Upper
76	100		
44	13.8	14.2	21.2#

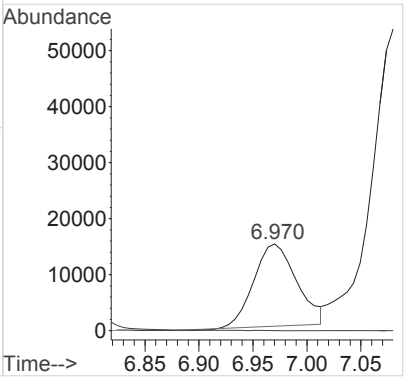


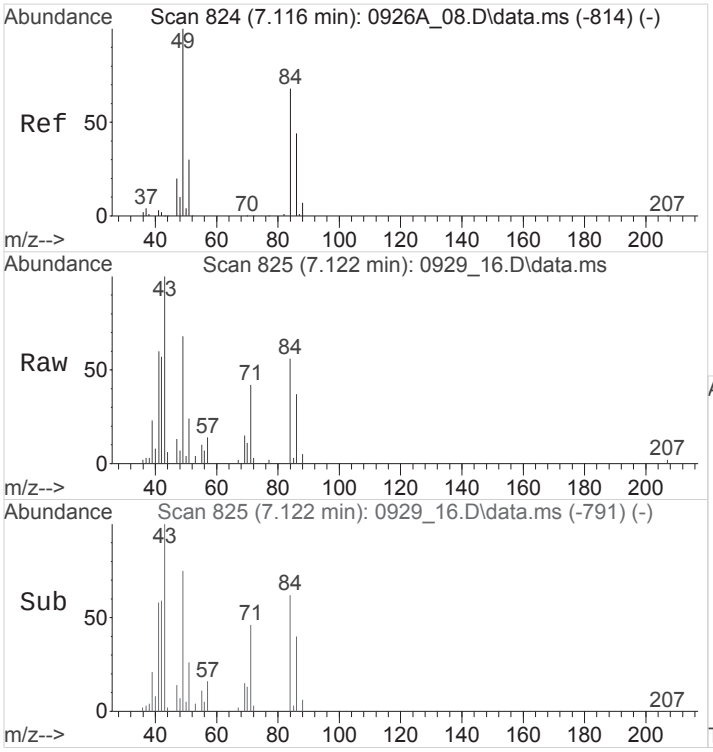


#20
Allyl Chloride
Concen: 127.0862582 ppbv
RT: 6.972 min Scan# 800
Delta R.T. 0.022 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 41 Resp: 401771

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#

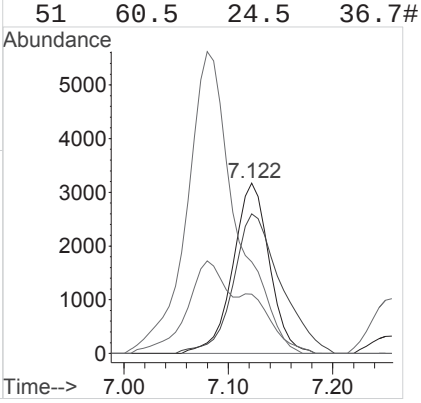


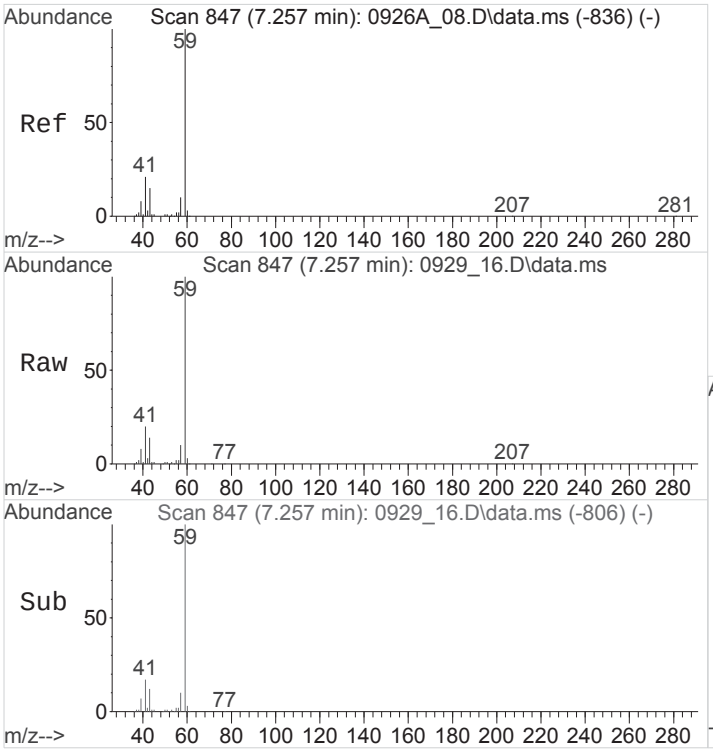


#21
Methylene Chloride
Concen: 28.4892042 ppbv
RT: 7.125 min Scan# 825
Delta R.T. 0.009 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 49 Resp: 77217

Ion	Ratio	Lower	Upper
49	100		
84	106.2	54.2	81.2#
86	237.4	35.1	52.7#
51	60.5	24.5	36.7#

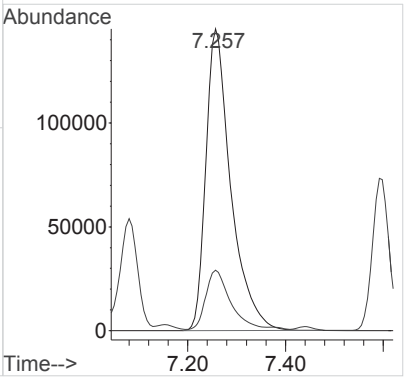


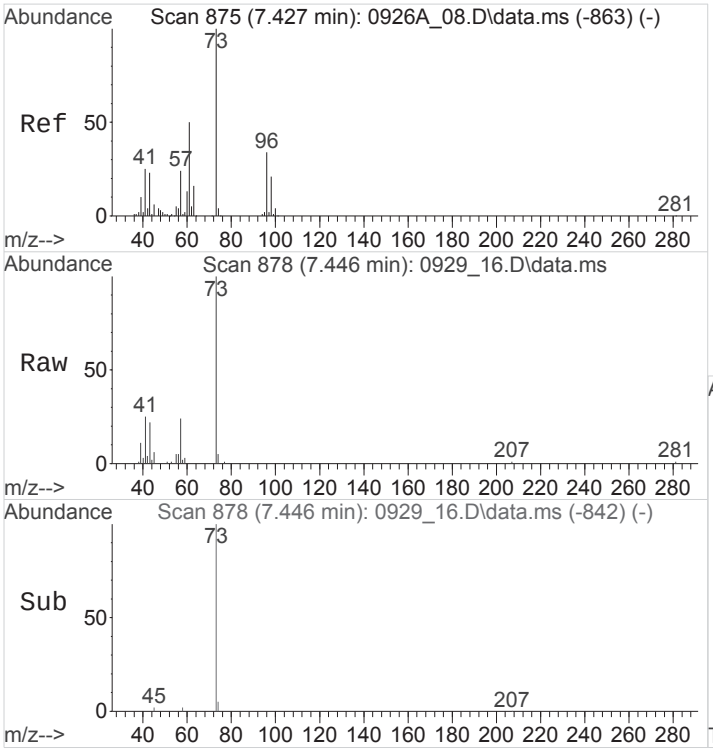


#22
TERT-BUTYL ALCOHOL
Concen: 1041.9991328 ppbv
RT: 7.260 min Scan# 847
Delta R.T. 0.004 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 59 Resp: 5152731

Ion	Ratio	Lower	Upper
59	100		
41	19.3	16.5	24.7

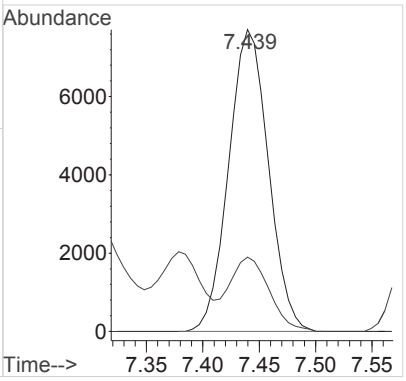


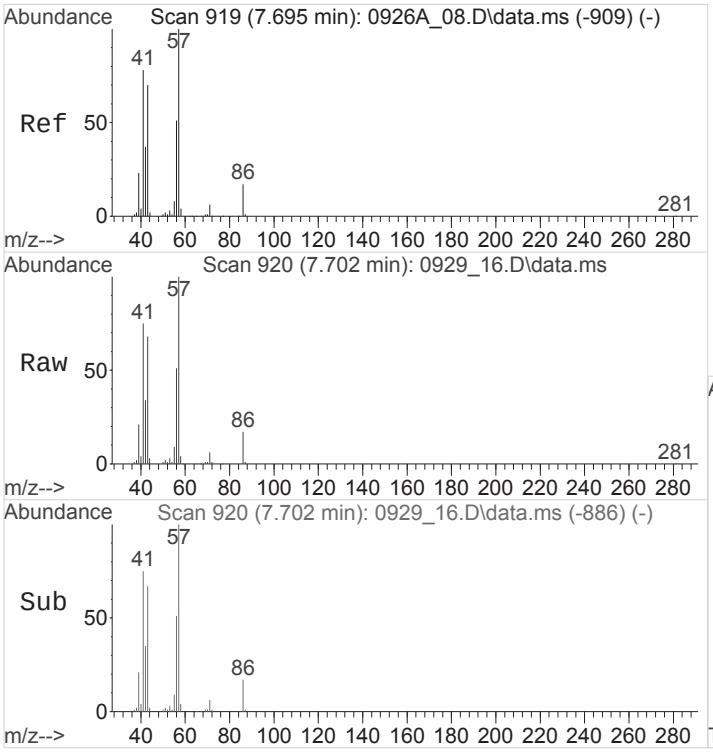


#23
Methyl Tert-Butyl Ether
Concen: 31.6345957 ppbv
RT: 7.443 min Scan# 878
Delta R.T. 0.017 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 73 Resp: 189590

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.5	29.3#

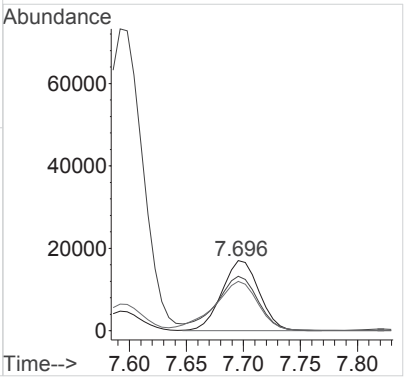


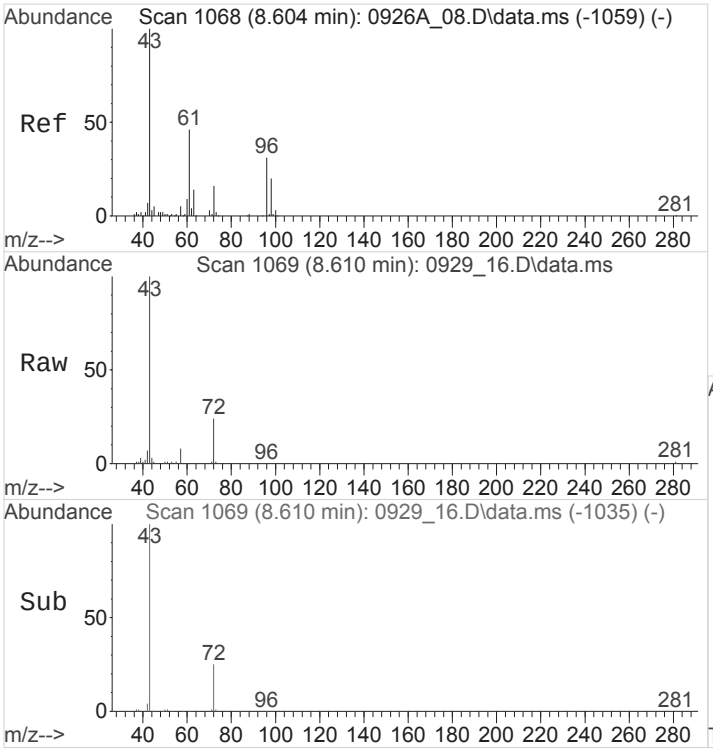


#25
n-Hexane
Concen: 111.3631261 ppbv
RT: 7.700 min Scan# 920
Delta R.T. 0.007 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 57 Resp: 388388

Ion	Ratio	Lower	Upper
57	100		
41	86.0	63.2	94.8
43	81.8	56.0	84.0

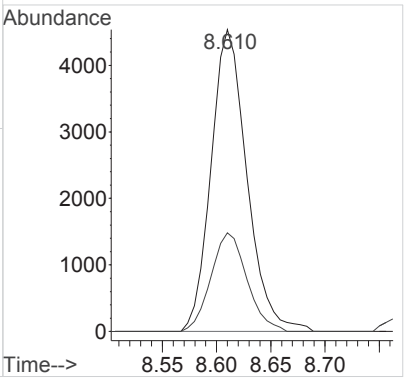


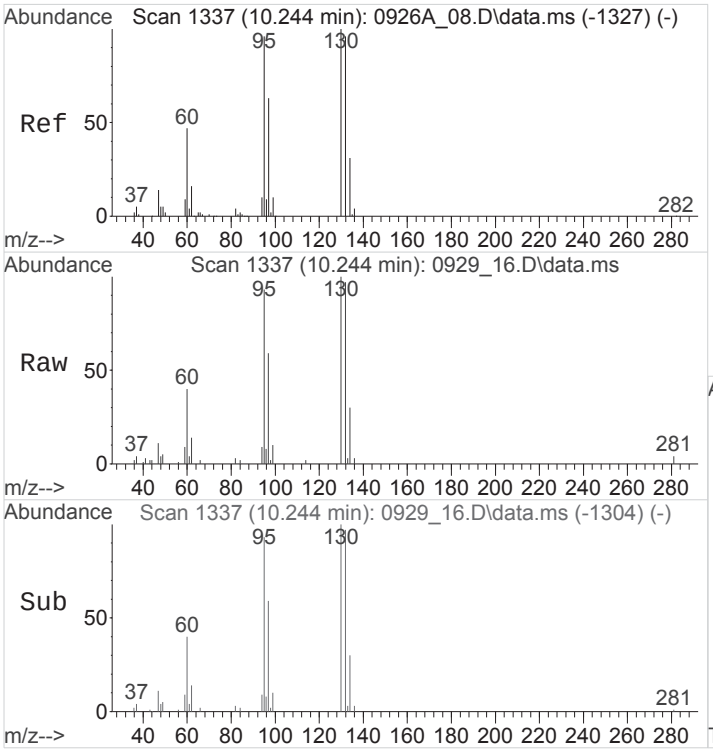


#29
2-Butanone (MEK)
Concen: 102.1352883 ppbv
RT: 8.613 min Scan# 1069
Delta R.T. 0.012 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 72 Resp: 104367

Ion	Ratio	Lower	Upper
72	100		
57	32.8	25.6	38.4

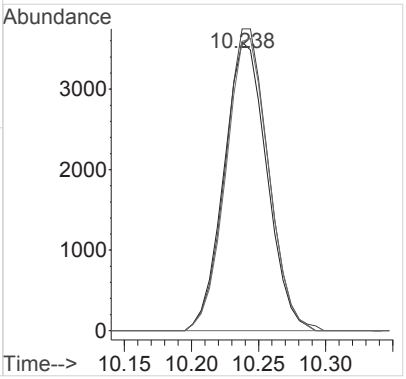


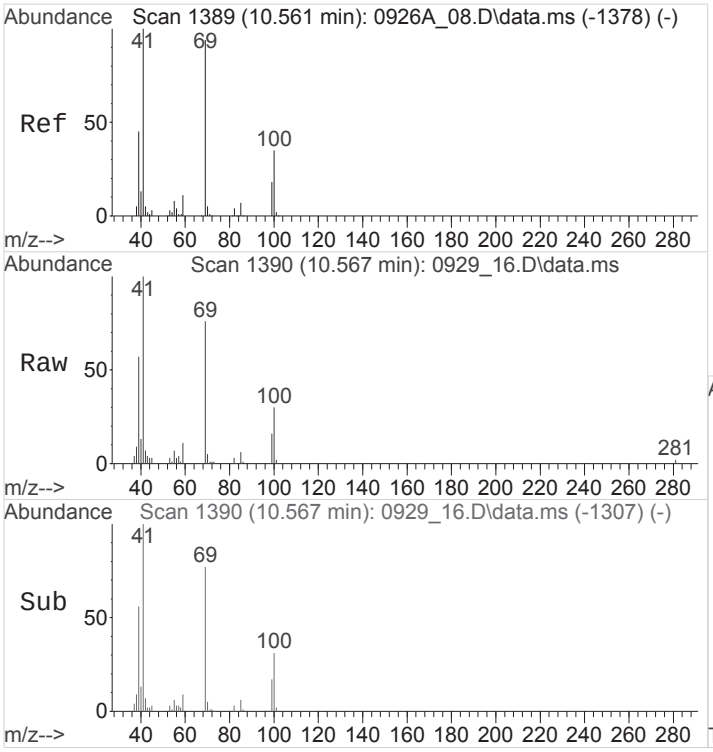


#41
Trichloroethene
Concen: 30.4327221 ppbv
RT: 10.242 min Scan# 1337
Delta R.T. 0.001 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 95 Resp: 79631

Ion	Ratio	Lower	Upper
95	100		
130	104.8	81.6	122.4
132	100.9	77.8	116.6

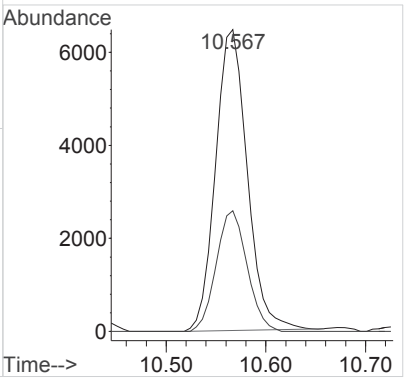


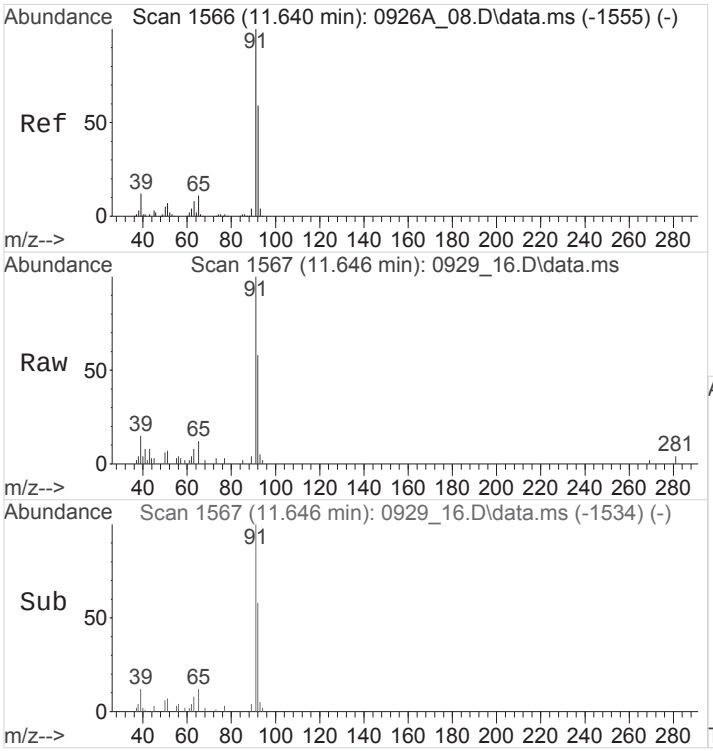


#45
Methyl Methacrylate
Concen: 58.9336501 ppbv
RT: 10.567 min Scan# 1390
Delta R.T. 0.004 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 69 Resp: 142678

Ion	Ratio	Lower	Upper
69	100		
100	39.1	29.7	44.5

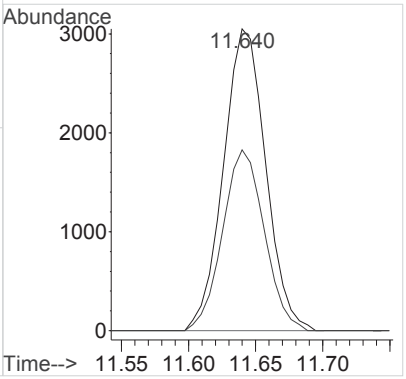


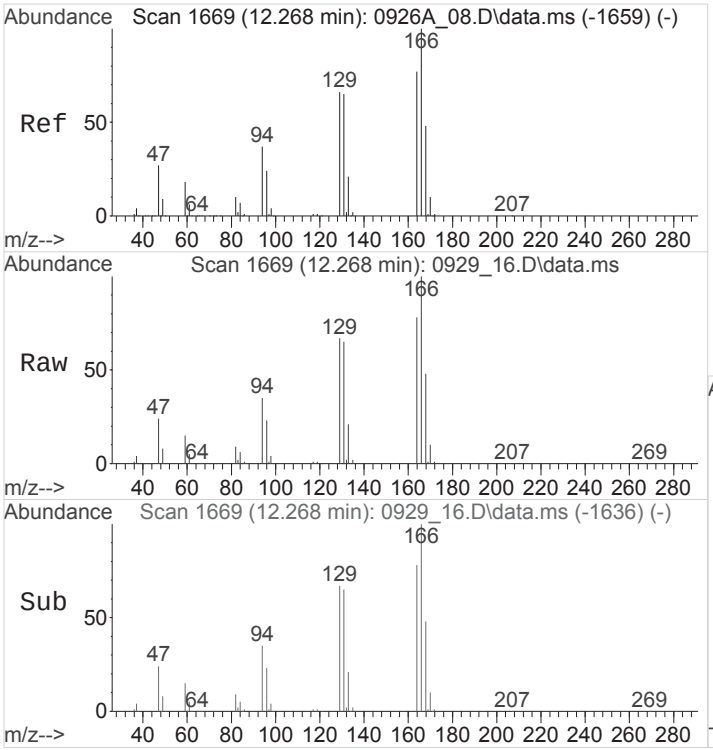


#50
Toluene
Concen: 8.3315517 ppbv
RT: 11.644 min Scan# 1567
Delta R.T. 0.002 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 91 Resp: 66753

Ion	Ratio	Lower	Upper
91	100		
92	59.1	46.6	70.0

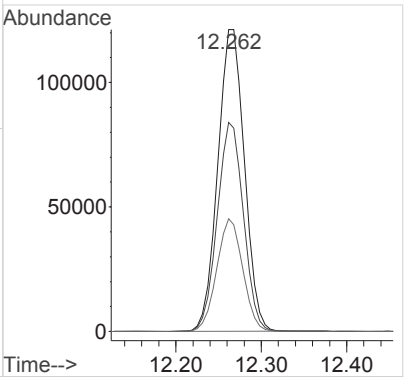


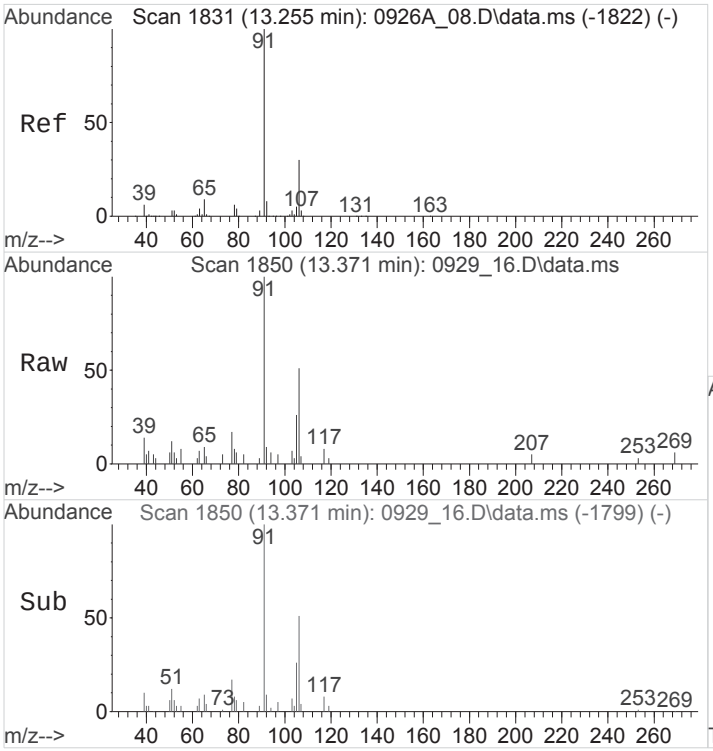


#53
Tetrachloroethene
Concen: 777.6930668 ppbv
RT: 12.267 min Scan# 1669
Delta R.T. 0.001 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion:166 Resp: 2629364

Ion	Ratio	Lower	Upper
166	100		
129	67.9	55.0	82.6
94	36.3	31.3	46.9

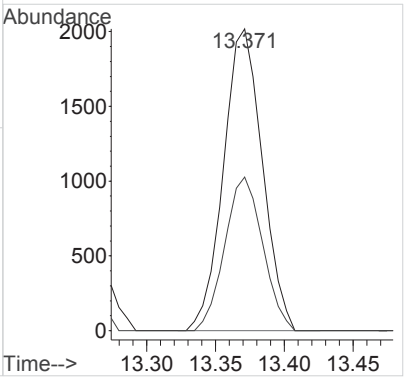


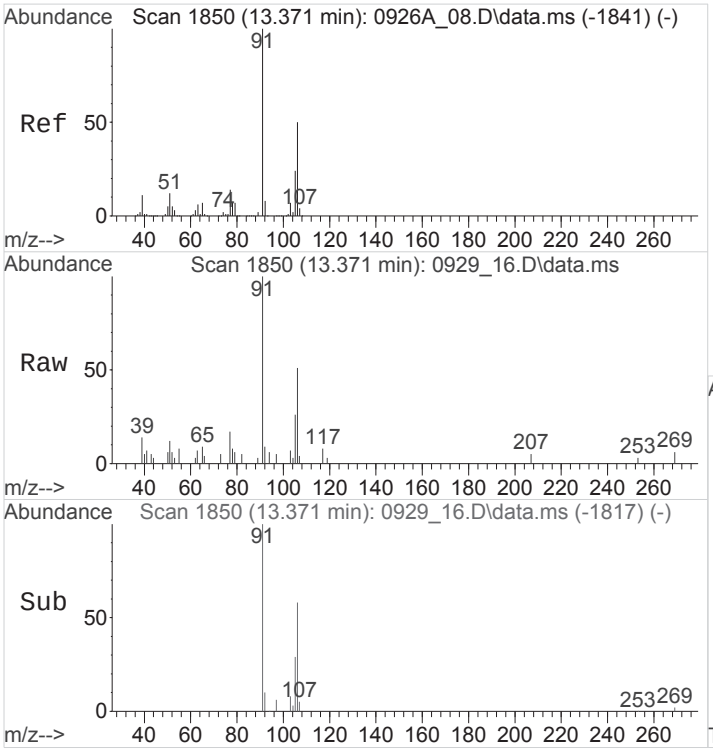


#59
Ethylbenzene
Concen: 4.3428903 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.115 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 91 Resp: 39668

Ion	Ratio	Lower	Upper
91	100		
106	49.7	24.3	36.5#

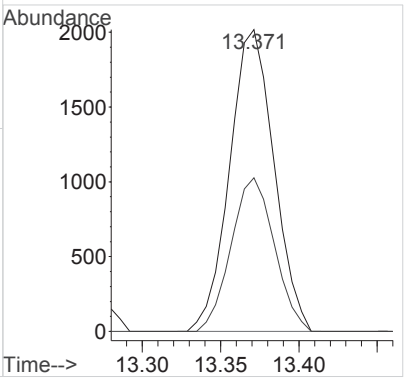


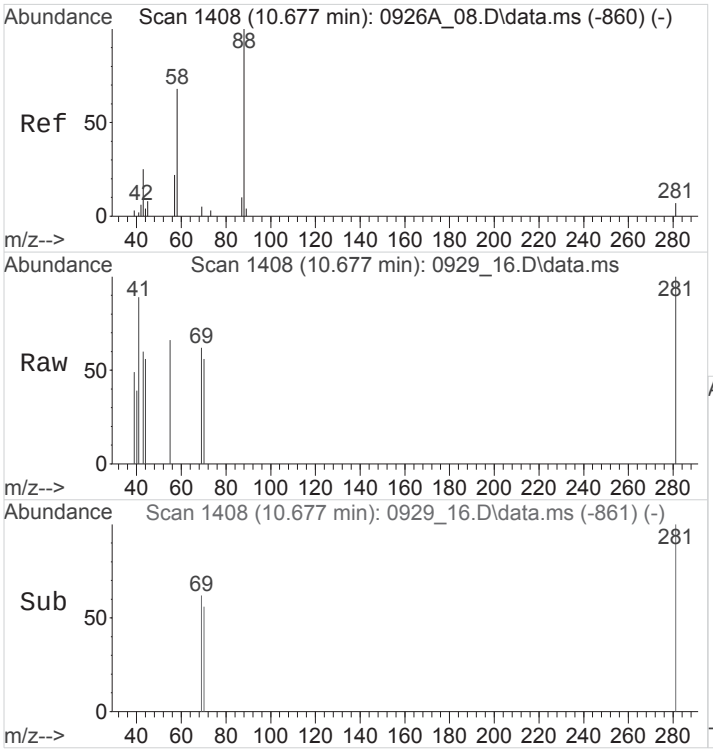


#60
M&P-Xylene
Concen: 5.7458929 ppbv
RT: 13.372 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion: 91 Resp: 39663

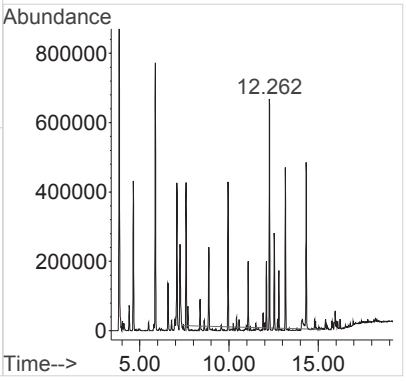
Ion	Ratio	Lower	Upper
91	100		
106	0.0	39.8	59.6#





#84
TPH (GC/MS) Low Fraction
Concen: 1362.0052881 ppbv m
RT: 10.675 min Scan# 1408
Delta R.T. 0.000 min
Lab File: 0929_16.D
Acq: 29 Sep 2016 6:49 pm

Tgt Ion:TIC Resp:22114166



Calibration

Instrument: AIRMS2
Method: TOAIRMS2I26P

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0926A_03.D	0.19	9/26/2016 1:14:00 PM
0926A_04.D	0.31	9/26/2016 1:58:00 PM
0926A_05.D	0.63	9/26/2016 2:40:00 PM
0926A_06.D	1.25	9/26/2016 3:23:00 PM
0926A_07.D	2.5	9/26/2016 4:07:00 PM
0926A_08.D	3.8	9/26/2016 4:52:00 PM
0926A_09.D	5	9/26/2016 5:39:00 PM
0926A_10.D	10	9/26/2016 6:30:00 PM
0926A_11.D	20	9/26/2016 7:16:00 PM
0926A_12.D	50	9/26/2016 8:09:00 PM

Level	Status	Code	Operator	Instrument	Sample ID
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Original Path: z:\092616A\0926A_01.D					
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Scan File Path: z:\092616A\0926A_02.D					
Original Path: z:\092616A\0926A_02.D					
0	No Audit				
Scan File Path: z:\092616A\0926A_03.D					
Original Path: 0926A_03.D					
38	Scanned	M(20), MP(1), MC(2), MR(1), MB(1), MK(1)	564	AIRMS2	STD AMS 0.19 ppbv BV091816K1374 (BV0325
Scan File Path: z:\092616A\0926A_03A.D					
Original Path: C:\msdchem\1\data\092616A\0926A_03A.D					
176	Scanned	M(40), MP(2), MC(4), MR(2), MB(2), MK(2), MT(20)	564	AIRMS2	RL AMS 0.19 ppbv BV091816K1374 (BV03251
Scan File Path: z:\092616A\0926A_04.D					
Original Path: C:\msdchem\1\data\092616A\0926A_04.D					
14	Scanned	M(10), MB(1), MK(1)	564	AIRMS2	STD AMS 0.31 ppbv BV091816K1374 (BV0325
Scan File Path: z:\092616A\0926A_04A.D					
Original Path: C:\msdchem\1\data\092616A\0926A_04A.D					
78	Scanned	M(20), MB(2), MK(2), MT(10)	564	AIRMS2	RL AMS 0.31 ppbv BV091816K1374 (BV03251
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64	Scanned	M(12), MR(2), MC(2), MK(2), MT(6)	564	AIRMS2	RL AMS 0.63 ppbv BV091816K1374 (BV03251
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Scan File Path: z:\092616A\0926A_06.D					
Original Path: C:\msdchem\1\data\092616A\0926A_06.D					
19	Scanned	M(3), MR(2), MC(1), MK(1)	564	AIRMS2	STD AMS 1.25 ppbv BV091816K1374 (BV0325
Scan File Path: z:\092616A\0926A_06A.D					
Original Path: C:\msdchem\1\data\092616A\0926A_06A.D					
53	Scanned	M(6), MR(4), MC(2), MK(2), MT(3)	564	AIRMS2	RL AMS 1.25 ppbv BV091816K1374 (BV03251
Scan File Path: z:\092616A\0926A_07.D					
Original Path: C:\msdchem\1\data\092616A\0926A_07.D					
13	Scanned	MR(1), MC(1), MK(1), M(2)	564	AIRMS2	STD AMS 2.5 ppbv BV091816K1374 (BV03251

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\092616A\0926A_08.D					
Original Path: C:\msdchem\1\data\092616A\0926A_08.D					
36	Scanned	MC(2), MK(2), M(4), MT(2), MR(2)	564	AIRMS2	STD AMS 3.8 ppbv BV091816K1374 (BV03251
Scan File Path: z:\092616A\0926A_09.D					
Original Path: C:\msdchem\1\data\092616A\0926A_09.D					
18	Scanned	MR(2), MC(1), MK(1), M(2)	564	AIRMS2	STD AMS 5.0 ppbv BV091816K1374 (BV03251
Scan File Path: z:\092616A\0926A_10.D					
Original Path: C:\msdchem\1\data\092616A\0926A_10.D					
24	Scanned	MR(3), M(3), MC(1), MK(1)	564	AIRMS2	STD AMS 10.0 ppbv BV091816K1374 (BV0325
Scan File Path: z:\092616A\0926A_11.D					
Original Path: C:\msdchem\1\data\092616A\0926A_11.D					
18	Scanned	MR(2), MC(1), MK(1), M(2)	564	AIRMS2	STD AMS 20.0 ppbv BV081816K1352 (BV0325
Scan File Path: z:\092616A\0926A_12.D					
Original Path: C:\msdchem\1\data\092616A\0926A_12.D					
19	Scanned	MR(2), M(3), MC(1), MK(1)	564	AIRMS2	STD AMS 50.0 ppbv BV081816K1352 (BV0325
Scan File Path: z:\092616A\0926A_13.D					
Original Path: C:\msdchem\1\data\092616A\0926A_13.D					
1	Scanned	MZ(1)	564	AIRMS2	INSTBLK (BV032517K1389)
Scan File Path: z:\092616A\0926A_14.D					
Original Path: C:\msdchem\1\data\092616A\0926A_14.D					
18	Scanned	MR(2), M(2), MC(1), MK(1)	564	AIRMS2	LCS 1x WG911053 (BV032517K1389)
Scan File Path: z:\092616A\0926A_15.D					
Original Path: C:\msdchem\1\data\092616A\0926A_15.D					
18	Scanned	MR(2), M(2), MC(1), MK(1)	564	AIRMS2	LCSD 1x WG911053 (BV032517K1389)
Scan File Path: z:\092616A\0926A_16.D					
Original Path: C:\msdchem\1\data\092616A\0926A_16.D					
1	Scanned	M(1)	564	AIRMS2	BLANK 1x WG911053 (BV032517K1389)
Scan File Path: z:\092616A\0926A_17.D					
Original Path: C:\msdchem\1\data\092616A\0926A_17.D					
1	Scanned	ENR(1)	564	AIRMS2	L861303-01 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_18.D					
Original Path: C:\msdchem\1\data\092616A\0926A_18.D					
1	Scanned	ENR(1)	564	AIRMS2	L861303-02 1x WG911053 TO-15 (BV032517K

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\092616A\0926A_19.D					
Original Path: C:\msdchem\1\data\092616A\0926A_19.D					
1	Scanned	ENR(1)	564	AIRMS2	L861303-03 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_20.D					
Original Path: C:\msdchem\1\data\092616A\0926A_20.D					
1	Scanned	ENR(1)	564	AIRMS2	L861600-01 2x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_21.D					
Original Path: C:\msdchem\1\data\092616A\0926A_21.D					
1	Scanned	ENR(1)	564	AIRMS2	L861600-02 2x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_22.D					
Original Path: C:\msdchem\1\data\092616A\0926A_22.D					
1	Scanned	ENR(1)	564	AIRMS2	L861600-03 2x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_23.D					
Original Path: C:\msdchem\1\data\092616A\0926A_23.D					
1	Scanned	ENR(1)	564	AIRMS2	L861603-01 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_24.D					
Original Path: C:\msdchem\1\data\092616A\0926A_24.D					
1	Scanned	ENR(1)	564	AIRMS2	L861603-02 20x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_25.D					
Original Path: C:\msdchem\1\data\092616A\0926A_25.D					
1	Scanned	ENR(1)	564	AIRMS2	L861610-01 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_26.D					
Original Path: C:\msdchem\1\data\092616A\0926A_26.D					
1	Scanned	ENR(1)	564	AIRMS2	L861610-02 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_27.D					
Original Path: C:\msdchem\1\data\092616A\0926A_27.D					
1	Scanned	ENR(1)	564	AIRMS2	L861610-04 1x WG911053 TO-15 (BV032517K
Scan File Path: z:\092616A\0926A_28.D					
Original Path: z:\092616A\0926A_28.D					
0	No Audit				
Scan File Path: z:\092616A\0926A_29.D					
Original Path: z:\092616A\0926A_29.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID

ENR = Quant report set to not reviewed (Disables MZ code)
MB = Manual integration of a common contaminant
MK = Manual integration of a spike compound
MR = Manual integration with before/after ratio <10%
MZ = Manual integrated but indicator missing from either the quant report or audit file
M = Manual integration (non-specific)
MC = Manual integration of a CCC
MP = Manual integration of an SPCC
MT = Multiple manual integrations of the same analyte >10 minutes apart

ScanSummary.rpt

Total Files Scanned	33	Beginning Analyzed Date	9/26/2016 12:03:16PM
Methods	0	Ending Analyzed Date	9/27/2016 10:31:19AM
Samples	32	Analyzed Range	22 hours, 28 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 9/27/2016 8:53:01 AM
Run ID : 092616A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0926A_03	STD AMS 0.19 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1314	"BV032517K1389"
2	0926A_03	STD AMS 0.19 ppbv BV091816K1 374	TOAIRMS2I26P							1	09/26/16 1314	
3	0926A_03 A	RL AMS 0.19 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1314	"BV032517K1389"
4	0926A_04	STD AMS 0.31 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1358	"BV032517K1389"
5	0926A_04 A	RL AMS 0.31 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1358	"BV032517K1389"
6	0926A_05	STD AMS 0.63 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1440	"BV032517K1389"
7	0926A_05 A	RL AMS 0.63 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1440	"BV032517K1389"
8	0926A_06	STD AMS 1.25 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1523	"BV032517K1389"
9	0926A_06 A	RL AMS 1.25 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1523	"BV032517K1389"
10	0926A_07	STD AMS 2.5 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1607	"BV032517K1389"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

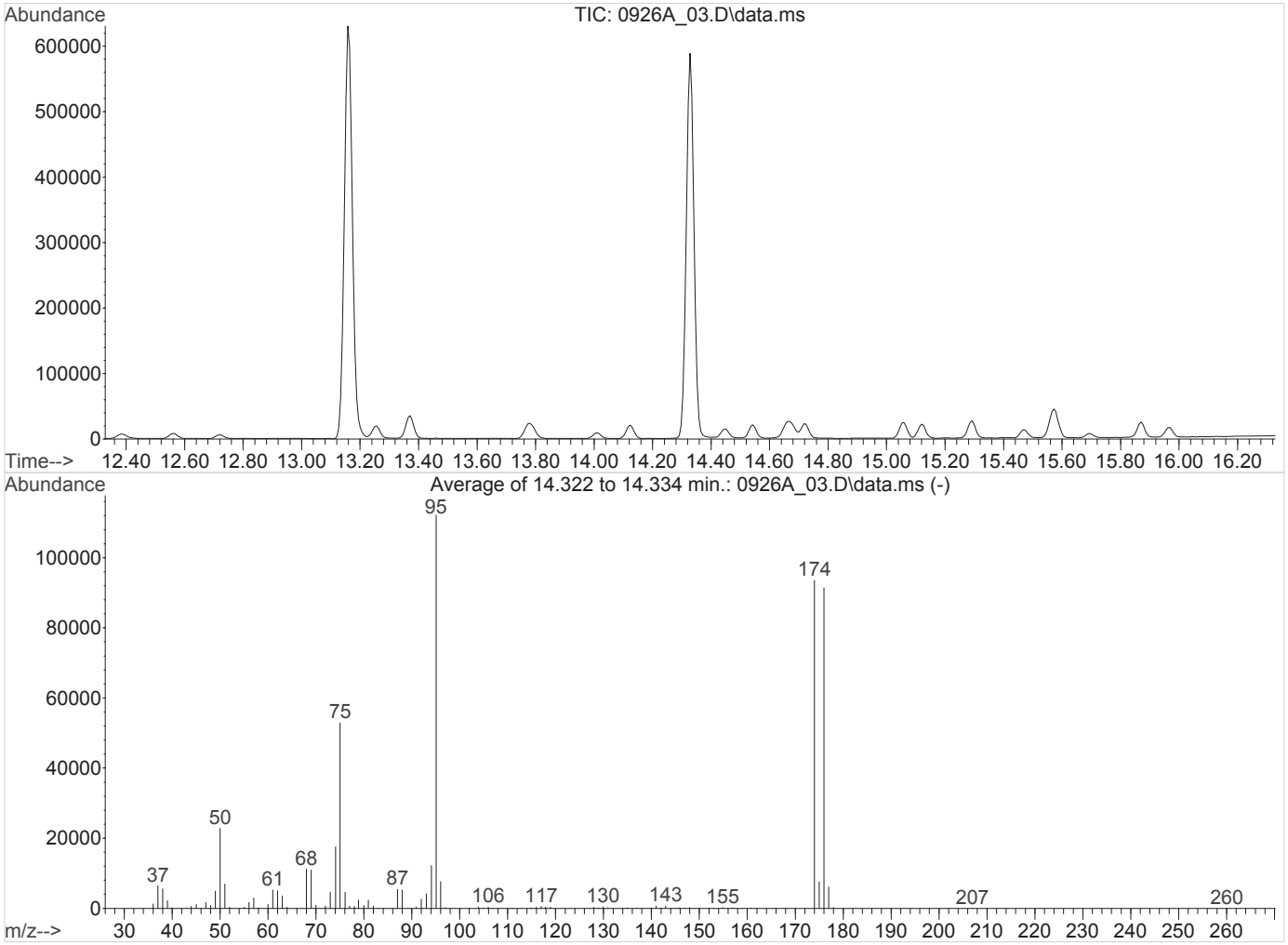
Instrument ID : AIRMS2
Computer Name : AIRCOMPD
Released By : Matt Ferrell
Date Released : 9/27/2016 8:53:01 AM
Run ID : 092616A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
11	0926A_08	MSTD AMS 3.8 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1652	"BV032517K1389"
12	0926A_09	STD AMS 5.0 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1739	"BV032517K1389"
13	0926A_10	STD AMS 10.0 PPBV BV091816K1 374	TOAIRMS2I26P						1	1	09/26/16 1830	"BV032517K1389"
14	0926A_11	STD AMS 20.0 PPBV BV081816K1 352	TOAIRMS2I26P						1	1	09/26/16 1916	"BV032517K1389"
15	0926A_12	STD AMS 50.0 PPBV BV081816K1 352	TOAIRMS2I26P						1	1	09/26/16 2009	"BV032517K1389"

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Title :
Last Update : Tue Sep 27 08:41:58 2016



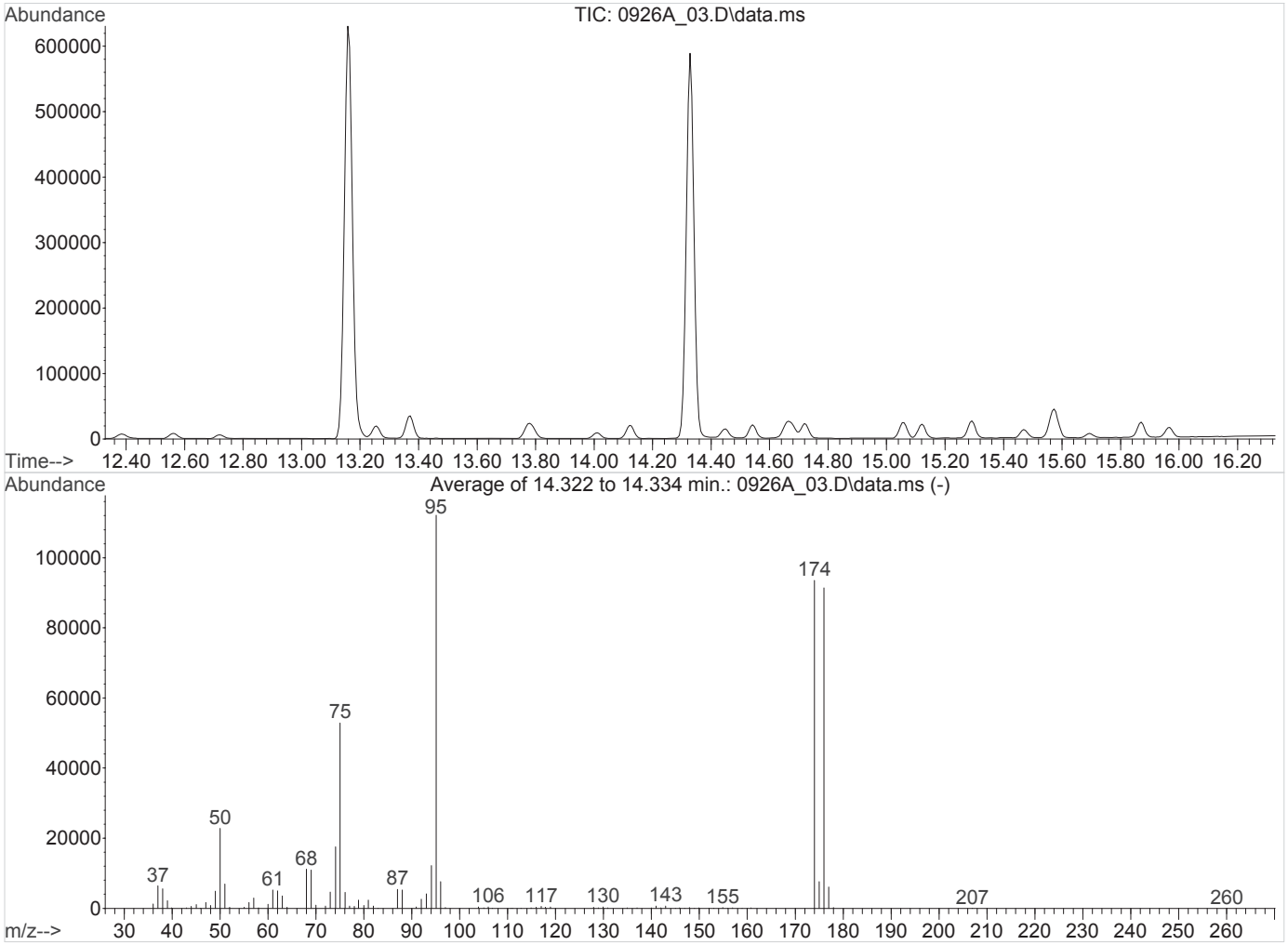
AutoFind: Scans 2006, 2007, 2008; Background Corrected with Scan 1998

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.3	22789	PASS
75	95	30	66	47.2	52901	PASS
95	95	100	100	100.0	112160	PASS
96	95	5	9	6.8	7588	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.4	93557	PASS
175	174	4	9	8.1	7562	PASS
176	174	93	101	97.7	91384	PASS
177	176	5	9	6.6	6065	PASS

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Title :
Last Update : Tue Sep 27 08:41:58 2016



AutoFind: Scans 2006, 2007, 2008; Background Corrected with Scan 1998

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.3	22789	PASS
75	95	30	66	47.2	52901	PASS
95	95	100	100	100.0	112160	PASS
96	95	5	9	6.8	7588	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.4	93557	PASS
175	174	4	9	8.1	7562	PASS
176	174	93	101	97.7	91384	PASS
177	176	5	9	6.6	6065	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: AIRMS2	Review Method	: TO-M18	Released By	: Matt Ferrell
Method	: TOAIRMS2I26P	Review Protocol	: EPA	Released On	: 9/27/2016 8:53:01 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- TOAIRMS2I26P -- ICal Updated Time: Tue Sep 27 08:41:58 2016

Parameter	0.19	0.31	0.63	1.25	2.5	3.8	5	10	20	50	AvgRF	%RSD	COD	Cur
Bromochloromethane														
Propene	0.497	0.541	0.642	0.697	0.647	0.745	0.753	0.778	0.775	0.806	0.688171	15.24	0.152	1
1,1-DIFLUOROETHANE	0.302	0.373	0.422	0.439	0.448	0.458	0.467	0.482	0.484	0.505	0.437926	13.82	0.138	1
Dichlorodifluoromethane	1.006	1.211	1.395	1.511	1.533	1.539	1.465	1.215	1.361	0.991	1.32278	15.68	0.157	1
CHLORODIFLUOROMETHANE	0.117	0.132	0.147	0.164	0.164	0.168	0.172	0.174	0.173	0.18	0.158918	12.94	0.129	1
1,2-Dichlorotetrafluoroethane	1.151	1.339	1.551	1.67	1.7	1.78	1.787	1.806	1.817	1.768	1.636991	13.78	0.138	1
Chloromethane	0.504	0.565	0.653	0.685	0.712	0.749	0.756	0.771	0.771	0.806	0.697237	14.02	0.14	1
Vinyl Chloride	0.521	0.589	0.691	0.76	0.765	0.808	0.811	0.83	0.831	0.865	0.747116	15.14	0.151	1
1,3-Butadiene	0.453	0.463	0.598	0.623	0.655	0.681	0.695	0.709	0.709	0.742	0.632885	16.06	0.161	1
Bromomethane	0.424	0.484	0.539	0.559	0.579	0.603	0.613	0.624	0.619	0.637	0.568066	12.15	0.121	1
Chloroethane	0.27	0.297	0.362	0.371	0.397	0.423	0.426	0.438	0.437	0.451	0.387379	16.06	0.161	1
Vinyl Bromide	0.399	0.473	0.533	0.558	0.577	0.605	0.607	0.617	0.617	0.634	0.561964	13.36	0.134	1
Trichlorofluoromethane	0.88	1.053	1.228	1.283	1.317	1.374	1.378	1.409	1.4	1.444	1.276787	14.1	0.141	1
Ethanol		0.072	0.08	0.099	0.096	0.111	0.116	0.128	0.158	0.178	0.115318	30.25	0.302	1
1,1,2-Trichlorotrifluoroethane	0.872	0.994	1.138	1.179	1.219	1.24	1.253	1.293	1.309	1.367	1.186383	12.74	0.127	1
1,1-Dichloroethene	0.739	0.869	1.029	1.054	1.091	1.116	1.144	1.19	1.216	1.272	1.071947	15.11	0.151	1
Acetone	1.522	1.658	1.966	2.116	2.246	2.338	2.396	2.502	1.87	1.969	2.058342	15.59	0.156	1
2-Propanol	0.952	1.075	1.2	1.287	1.343	1.416	1.439	1.513	1.784	1.894	1.390306	21	0.21	1
Carbon Disulfide	1.362	1.53	1.758	1.757	1.831	1.859	1.875	1.924	1.941	2	1.783549	11.08	0.111	1
Allyl Chloride	0.661	0.772	0.955	0.957	1.009	1.032	1.057	1.1	1.133	1.187	0.986258	16.41	0.164	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: AIRMS2	Review Method	: TO-M18	Released By	: Matt Ferrell
Method	: TOAIRMS2I26P	Review Protocol	: EPA	Released On	: 9/27/2016 8:53:01 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- TOAIRMS2I26P -- ICal Updated Time: Tue Sep 27 08:41:58 2016

Parameter	0.19	0.31	0.63	1.25	2.5	3.8	5	10	20	50	AvgRF	%RSD	COD	Cur
Methylene Chloride	0.865	0.794	0.879	0.824	0.832	0.827	0.828	0.846	0.86	0.901	0.845557	3.67	0.037	1
TERT-BUTYL ALCOHOL	1.308	1.377	1.526	1.541	1.501	1.593	1.604	1.657	1.621	1.698	1.542696	7.91	0.079	1
Methyl Tert-Butyl Ether	1.548	1.71	1.747	1.834	1.913	1.937	1.936	2	1.989	2.083	1.869658	8.6	0.086	1
Trans-1,2-Dichloroethene	0.497	0.566	0.585	0.598	0.622	0.633	0.629	0.646	0.646	0.677	0.609996	8.37	0.084	1
n-Hexane	0.807	0.97	1.071	1.078	1.116	1.128	1.137	1.164	1.18	1.23	1.088014	11.16	0.112	1
1,1-Dichloroethane	0.874	1.075	1.17	1.195	1.23	1.244	1.242	1.27	1.282	1.323	1.190333	10.96	0.11	1
Vinyl Acetate	0.894	0.995	1.038	1.154	1.194	1.255	1.272	1.344	1.417	1.537	1.210069	16.34	0.163	1
ETHYL ACETATE	0.14	0.15	0.172	0.189	0.201	0.2	0.208	0.215	0.211	0.224	0.191161	14.73	0.147	1
2-Butanone (MEK)	0.239	0.272	0.284	0.303	0.327	0.336	0.34	0.354	0.355	0.378	0.318785	13.6	0.136	1
cis-1,2-Dichloroethene	0.714	0.891	0.89	1.156	1.202	1.23	1.228	1.271	1.266	1.32	1.116754	18.53	0.185	1
Tetrahydrofuran	0.645	0.818	0.831	0.873	0.915	0.944	0.944	0.989	1.014	1.06	0.903177	13.18	0.132	1
Chloroform	0.875	1.106	1.179	1.218	1.271	1.273	1.277	1.307	1.297	1.336	1.213886	11.29	0.113	1
Cyclohexane	0.668	0.808	0.876	0.918	0.965	0.961	0.956	0.984	0.978	1.02	0.913409	11.53	0.115	1
1,1,1-Trichloroethane	0.795	1.023	1.099	1.161	1.196	1.207	1.204	1.229	1.232	1.276	1.142188	12.42	0.124	1
Carbon Tetrachloride	0.771	0.916	1.044	1.075	1.121	1.149	1.139	1.168	1.157	1.194	1.073391	12.42	0.124	1
2,2,4-Trimethylpentane	2.546	3.27	3.56	3.665	3.788	3.859	3.844	3.94	3.93	3.955	3.635856	12.04	0.12	1
1,4-Difluorobenzene														
Benzene	0.395	0.465	0.508	0.525	0.538	0.545	0.545	0.557	0.562	0.575	0.52142	10.42	0.104	1
1,2-Dichloroethane	0.148	0.189	0.206	0.216	0.218	0.221	0.222	0.229	0.231	0.241	0.212062	12.54	0.125	1
Heptane	0.243	0.321	0.351	0.364	0.372	0.375	0.378	0.393	0.397	0.408	0.360066	13.34	0.133	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: AIRMS2	Review Method	: TO-M18	Released By	: Matt Ferrell
Method	: TOAIRMS2I26P	Review Protocol	: EPA	Released On	: 9/27/2016 8:53:01 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- TOAIRMS2I26P -- ICal Updated Time: Tue Sep 27 08:41:58 2016

Parameter	0.19	0.31	0.63	1.25	2.5	3.8	5	10	20	50	AvgRF	%RSD	COD	Cur
Trichloroethene	0.152	0.185	0.199	0.206	0.207	0.21	0.211	0.215	0.218	0.228	0.203112	10.56	0.106	1
TERT-AMYL ETHYL ETHER	0.15	0.163	0.161	0.163	0.167	0.166	0.161	0.167	0.169	0.175	0.164074	3.9	0.039	1
METHYL CYCLOHEXANE	0.207	0.261	0.284	0.291	0.302	0.3	0.303	0.309	0.308	0.314	0.28783	11.24	0.112	1
1,2-Dichloropropane	0.134	0.179	0.192	0.194	0.197	0.203	0.204	0.207	0.207	0.21	0.192706	11.73	0.117	1
Methyl Methacrylate	0.181	0.183	0.172	0.175	0.184	0.19	0.191	0.2	0.198	0.205	0.187928	5.7	0.057	1
1,4-Dioxane	0.068	0.079	0.087	0.09	0.089	0.094	0.096	0.097	0.102	0.105	0.090901	12.16	0.122	1
Bromodichloromethane	0.215	0.274	0.305	0.324	0.336	0.34	0.344	0.355	0.355	0.367	0.321465	14.41	0.144	1
cis-1,3-Dichloropropene	0.219	0.244	0.274	0.295	0.3	0.31	0.312	0.325	0.323	0.329	0.293052	12.55	0.125	1
4-Methyl-2-Pentanone (MIBK)	0.376	0.447	0.442	0.465	0.465	0.481	0.487	0.506	0.489	0.503	0.466181	8.24	0.082	1
Toluene	0.454	0.55	0.604	0.632	0.648	0.664	0.664	0.678	0.665	0.661	0.62193	11.34	0.113	1
trans-1,3-Dichloropropene	0.174	0.2	0.213	0.229	0.241	0.252	0.255	0.267	0.264	0.277	0.237341	13.84	0.138	1
1,1,2-Trichloroethane	0.145	0.162	0.176	0.192	0.196	0.201	0.203	0.207	0.204	0.207	0.18926	11.2	0.112	1
Tetrachloroethene	0.197	0.231	0.257	0.274	0.276	0.28	0.279	0.282	0.275	0.274	0.262446	10.55	0.106	1
Methyl Butyl Ketone	0.253	0.304	0.312	0.337	0.355	0.38	0.384	0.418	0.396	0.419	0.355943	15.2	0.152	1
Chlorodibromomethane	0.199	0.238	0.264	0.293	0.304	0.316	0.317	0.33	0.324	0.33	0.291447	15.17	0.152	1
1,2-Dibromoethane	0.189	0.211	0.229	0.252	0.261	0.273	0.275	0.284	0.279	0.283	0.253476	13.17	0.132	1
Chlorobenzene	0.31	0.34	0.385	0.41	0.415	0.428	0.426	0.431	0.414	0.417	0.39765	10.32	0.103	1
Chlorobenzene-d5														
Ethylbenzene	0.794	0.867	0.915	0.971	1	1.01	1.009	1.028	1.01	1.03	0.963567	8.23	0.082	1
M&P-Xylene	0.721	0.641	0.684	0.724	0.739	0.754	0.75	0.767	0.752	0.75	0.728205	5.28	0.053	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: AIRMS2	Review Method	: TO-M18	Released By	: Matt Ferrell
Method	: TOAIRMS2I26P	Review Protocol	: EPA	Released On	: 9/27/2016 8:53:01 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- TOAIRMS2I26P -- ICal Updated Time: Tue Sep 27 08:41:58 2016

Parameter	0.19	0.31	0.63	1.25	2.5	3.8	5	10	20	50	AvgRF	%RSD	COD	Cur
O-Xylene	0.639	0.671	0.7	0.743	0.77	0.775	0.776	0.786	0.766	0.787	0.741479	7.1	0.071	1
Styrene	0.383	0.438	0.475	0.522	0.559	0.579	0.579	0.596	0.589	0.614	0.533341	14.47	0.145	1
Bromoform	0.247	0.275	0.305	0.349	0.363	0.385	0.383	0.397	0.391	0.405	0.349888	15.82	0.158	1
Isopropylbenzene	0.849	0.948	1	1.035	1.075	1.078	1.069	1.066	1.029	1.042	1.019097	7.04	0.07	1
1,1,2,2-Tetrachloroethane	0.429	0.478	0.506	0.537	0.557	0.568	0.564	0.561	0.537	0.554	0.529115	8.55	0.086	1
n-Propylbenzene	0.94	1.055	1.172	1.237	1.284	1.306	1.298	1.297	1.239	1.264	1.209329	10.05	0.1	1
4-Ethyltoluene	0.806	0.836	0.941	0.996	1.047	1.062	1.059	1.063	1.011	1.039	0.986024	9.63	0.096	1
2-Chlorotoluene	0.715	0.831	0.873	0.937	0.96	0.977	0.967	0.975	0.941	0.996	0.917275	9.51	0.095	1
1,4-Bromofluorobenzene	0.555	0.574	0.592	0.622	0.633	0.648	0.643	0.647	0.644	0.656	0.621445	5.66	0.057	1
1,3,5-Trimethylbenzene	0.75	0.78	0.811	0.839	0.867	0.877	0.867	0.863	0.815	0.851	0.832043	5.08	0.051	1
tert-Butylbenzene	0.706	0.764	0.815	0.829	0.846	0.847	0.834	0.821	0.779	0.807	0.804682	5.47	0.055	1
1,2,4-Trimethylbenzene	0.731	0.765	0.788	0.822	0.861	0.877	0.869	0.859	0.799	0.84	0.821156	5.96	0.06	1
sec-Butylbenzene	1.159	1.237	1.248	1.291	1.322	1.343	1.323	1.301	1.224	1.26	1.270835	4.42	0.044	1
1,3-Dichlorobenzene	0.334	0.33	0.369	0.448	0.484	0.515	0.516	0.52	0.491	0.519	0.452546	17.34	0.173	1
1,4-Dichlorobenzene	0.293	0.295	0.343	0.418	0.466	0.504	0.51	0.519	0.49	0.471	0.430805	20.6	0.206	1
1,2,3-TRIMETHYLBENZENE	0.751	0.8	0.811	0.857	0.877	0.876	0.88	0.867	0.802	0.811	0.833193	5.29	0.053	1
DICYCLOPENTADIENE	0.973	1.1	1.145	1.201	1.239	1.238	1.245	1.23	1.179	1.19	1.173974	7.2	0.072	1
Benzyl Chloride	0.294	0.317	0.322	0.408	0.502	0.583	0.608	0.65	0.63		0.479255	30.4	0.304	1
n-Butylbenzene	0.793	0.834	0.853	0.913	0.964	1.016	1.013	1.024	0.942	0.994	0.934576	8.92	0.089	1
1,2-Dichlorobenzene	0.379	0.39	0.4	0.458	0.493	0.515	0.51	0.504	0.468	0.49	0.460704	11.35	0.113	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: AIRMS2	Review Method	: TO-M18	Released By	: Matt Ferrell
Method	: TOAIRMS2I26P	Review Protocol	: EPA	Released On	: 9/27/2016 8:53:01 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- TOAIRMS2I26P -- ICal Updated Time: Tue Sep 27 08:41:58 2016

Parameter	0.19	0.31	0.63	1.25	2.5	3.8	5	10	20	50	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene			0.081	0.114	0.132	0.175	0.198	0.256	0.213	0.242	0.176421	35.36	0.354	1
Hexachloro-1,3-Butadiene	0.3	0.318	0.299	0.319	0.305	0.328	0.322	0.326	0.268	0.229	0.30135	10.37	0.104	1
Naphthalene			0.211	0.3	0.342	0.457	0.5	0.611	0.501	0.582	0.438013	32.14	0.321	1
TPH (GC/MS) Low Fraction			1.638	1.66	1.69	1.708	1.703	1.745	1.732	1.827	1.712843	3.38	0.034	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03A.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : RL AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:47:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.865	130	1376576	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	5585330	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3950476	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2194135	3.5749623	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 89.37%				
Target Compounds						Qvalue	
2) Propene	4.093	41	32523m	0.1373267	ppbv		
3) 1,1-DIFLUOROETHANE	4.105	65	19727m	0.1308971	ppbv		
4) Dichlorodifluoromethane	4.159	85	65783	0.1445049	ppbv		98
5) CHLORODIFLUOROMETHANE	4.190	67	7652m	0.1399159	ppbv		
6) 1,2-Dichlorotetrafluor...	4.393	85	75279	0.1336249	ppbv	#	88
7) Chloromethane	4.495	50	32982m	0.1374525	ppbv		
8) Vinyl Chloride	4.690	62	34091m	0.1325915	ppbv		
9) 1,3-Butadiene	4.757	39	29588m	0.1358463	ppbv		
10) Bromomethane	5.245	94	27700m	0.1416893	ppbv		
11) Chloroethane	5.409	64	17664m	0.1325021	ppbv		
12) Vinyl Bromide	5.678	106	26081m	0.1348552	ppbv		
13) Trichlorofluoromethane	5.763	101	57554	0.1309825	ppbv		98
14) Ethanol	6.135	45	4470m	0.1126254	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.459	101	57023	0.1396644	ppbv	#	75
16) 1,1-Dichloroethene	6.485	61	48345	0.1310503	ppbv	#	70
17) Acetone	6.625	43	99533	0.1405100	ppbv		97
18) 2-Propanol	6.828	45	62243	0.1300893	ppbv	#	74
19) Carbon Disulfide	6.779	76	89025	0.1450397	ppbv		97
20) Allyl Chloride	6.953	41	43230	0.1273652	ppbv	#	45
21) Methylene Chloride	7.120	49	56558	0.1943602	ppbv	#	84
22) TERT-BUTYL ALCOHOL	7.334	59	85517	0.1610767	ppbv		99
23) Methyl Tert-Butyl Ether	7.477	73	101234	0.1573338	ppbv	#	51
24) Trans-1,2-Dichloroethene	7.427	96	32512m	0.1548740	ppbv		
25) n-Hexane	7.692	57	52739	0.1408488	ppbv		96
26) 1,1-Dichloroethane	7.938	63	57144	0.1394961	ppbv	#	69
27) Vinyl Acetate	7.982	43	58483m	0.1404357	ppbv		
28) ETHYL ACETATE	8.659	70	9174m	0.1394558	ppbv		
29) 2-Butanone (MEK)	8.628	72	15596m	0.1421634	ppbv		
30) cis-1,2-Dichloroethene	8.598	61	42813m	0.1113973	ppbv		
31) Tetrahydrofuran	8.964	42	42178	0.1356966	ppbv	#	61
32) Chloroform	8.924	83	57213	0.1369547	ppbv		97
33) Cyclohexane	9.170	84	43677	0.1389465	ppbv		97
34) 1,1,1-Trichloroethane	9.137	97	52002	0.1322946	ppbv		98
35) Carbon Tetrachloride	9.304	117	50399	0.1364330	ppbv	#	86
36) 2,2,4-Trimethylpentane	9.545	57	166464	0.1330373	ppbv	#	88
38) Benzene	9.537	78	104718	0.1438283	ppbv	#	81
39) 1,2-Dichloroethane	9.592	62	39207	0.1324073	ppbv	#	42
40) Heptane	9.735	43	64415	0.1281188	ppbv	#	62
41) Trichloroethene	10.240	95	40194	0.1417219	ppbv		95
42) TERT-AMYL ETHYL ETHER	10.469	73	39889m	0.1741091	ppbv		
43) METHYL CYCLOHEXANE	10.423	83	54907	0.1366162	ppbv	#	51
44) 1,2-Dichloropropane	10.506	63	35512m	0.1319745	ppbv		
45) Methyl Methacrylate	10.577	69	47895	0.1825208	ppbv		96
46) 1,4-Dioxane	10.719	88	18034m	0.1420774	ppbv		
47) Bromodichloromethane	10.786	83	56976	0.1269316	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03A.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : RL AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:47:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.288	75	58148	0.1421013 ppbv #	87
49) 4-Methyl-2-Pentanone (...	11.452	43	99747	0.1532343 ppbv #	89
50) Toluene	11.643	91	120330	0.1385618 ppbv	99
51) trans-1,3-Dichloropropene	11.910	75	46193	0.1393831 ppbv #	84
52) 1,1,2-Trichloroethane	12.119	97	38592	0.1460327 ppbv #	63
53) Tetrachloroethene	12.266	166	52200	0.1424434 ppbv #	75
54) Methyl Butyl Ketone	12.387	43	67161	0.1351286 ppbv #	91
55) Chlorodibromomethane	12.564	129	52901	0.1299905 ppbv	99
56) 1,2-Dibromoethane	12.722	107	50033	0.1413602 ppbv	99
57) Chlorobenzene	13.193	112	82247	0.1481246 ppbv #	62
59) Ethylbenzene	13.257	91	149060	0.1566349 ppbv #	44
60) M&P-Xylene	13.372	91	220748	0.3069393 ppbv	99
61) O-Xylene	13.776	91	119966	0.1638204 ppbv	98
62) Styrene	13.794	104	71790	0.1362916 ppbv	99
63) Bromoform	14.012	173	46334	0.1340839 ppbv	99
64) Isopropylbenzene	14.125	105	159402	0.1583759 ppbv #	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	80511	0.1540692 ppbv	99
66) n-Propylbenzene	14.544	91	176390	0.1476861 ppbv	95
67) 4-Ethyltoluene	14.660	105	151329	0.1553983 ppbv #	46
68) 2-Chlorotoluene	14.680	91	134237	0.1481782 ppbv	99
70) 1,3,5-Trimethylbenzene	14.723	105	140684	0.1712023 ppbv	99
71) tert-Butylbenzene	15.060	119	132391	0.1665884 ppbv	96
72) 1,2,4-Trimethylbenzene	15.124	105	137159	0.1691250 ppbv	100
73) sec-Butylbenzene	15.293	105	217491	0.1732853 ppbv	98
74) 1,3-Dichlorobenzene	15.473	146	62583	0.1400239 ppbv #	88
75) 1,4-Dichlorobenzene	15.570	146	55014	0.1293021 ppbv #	58
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	140924	0.1712573 ppbv	99
77) DICYCLOPENTADIENE	15.568	66	182569	0.1574628 ppbv #	71
78) Benzyl Chloride	15.697	91	55078	0.1163643 ppbv #	56
79) n-Butylbenzene	15.873	91	148754	0.1611630 ppbv	99
80) 1,2-Dichlorobenzene	15.969	146	71123	0.1563130 ppbv	98
81) 1,2,4-Trichlorobenzene	17.511	180	14992m	0.0860458 ppbv	
82) Hexachloro-1,3-Butadiene	17.631	225	56271	0.1890707 ppbv #	69
83) Naphthalene	17.764	128	46019	0.1063791 ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	15807563m	9.3445402 ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
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Operator : 564
Sample : RL AMS 0.19 ppbv BV091816K1374
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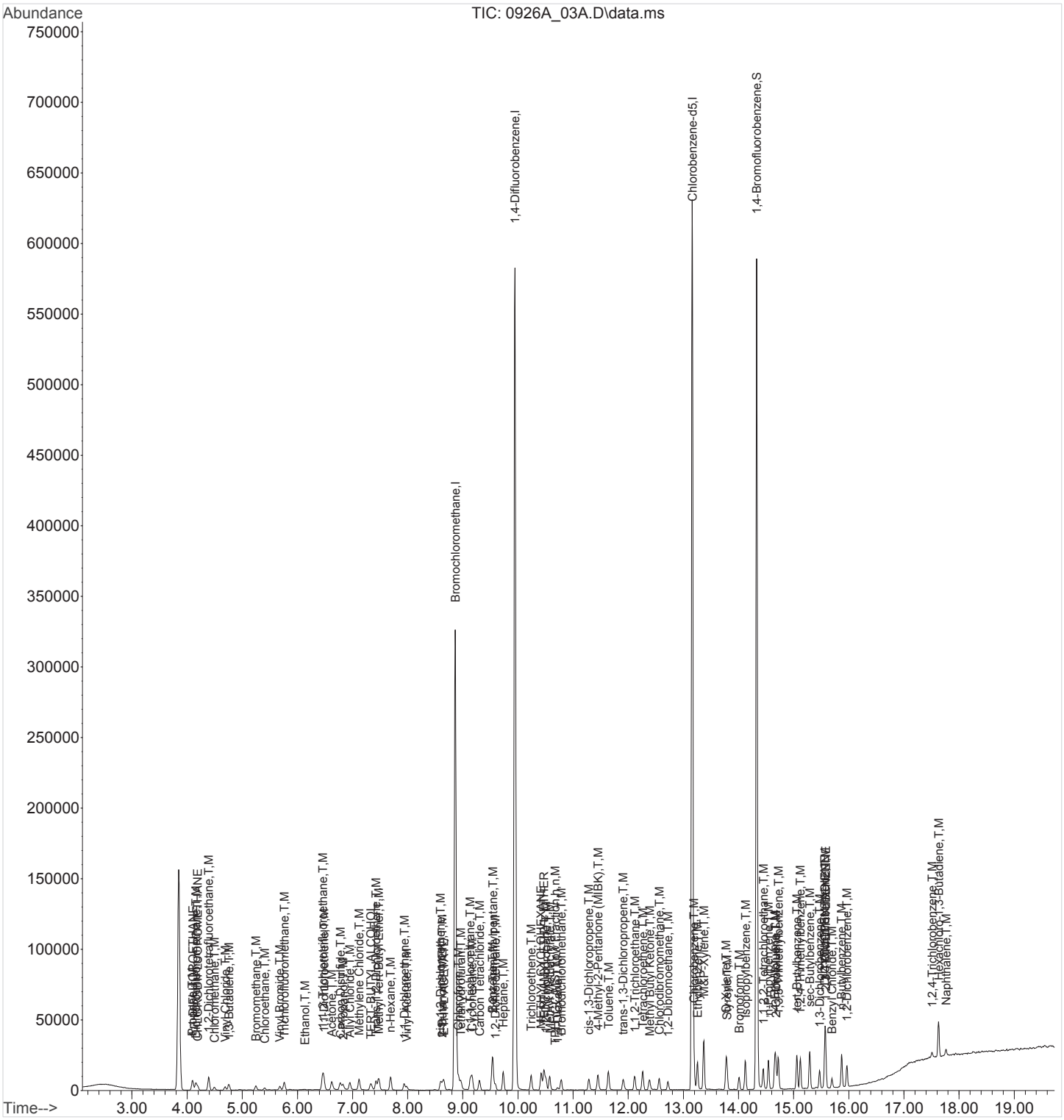
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

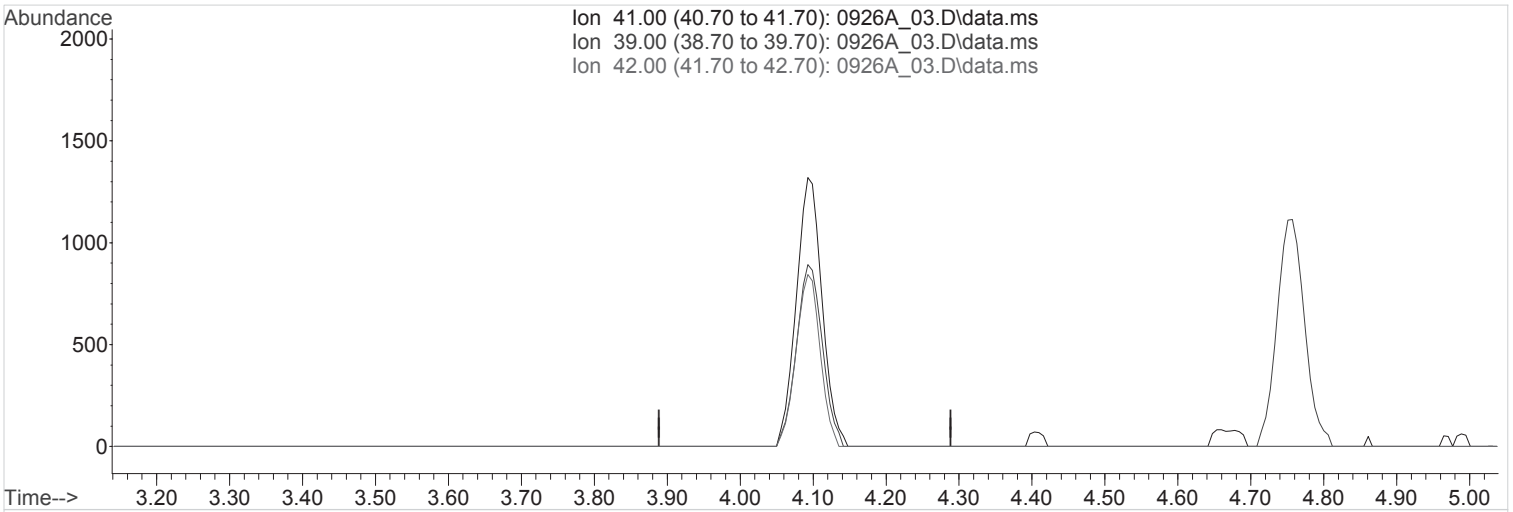
Quant Time: Sep 27 08:47:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

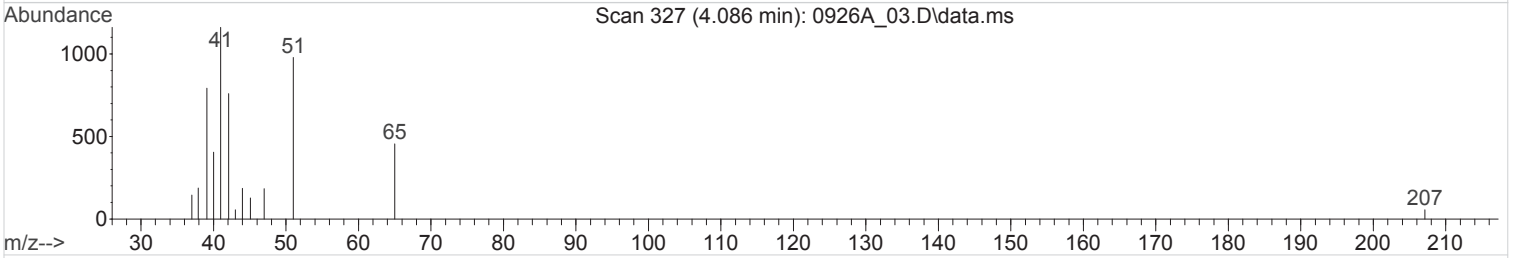


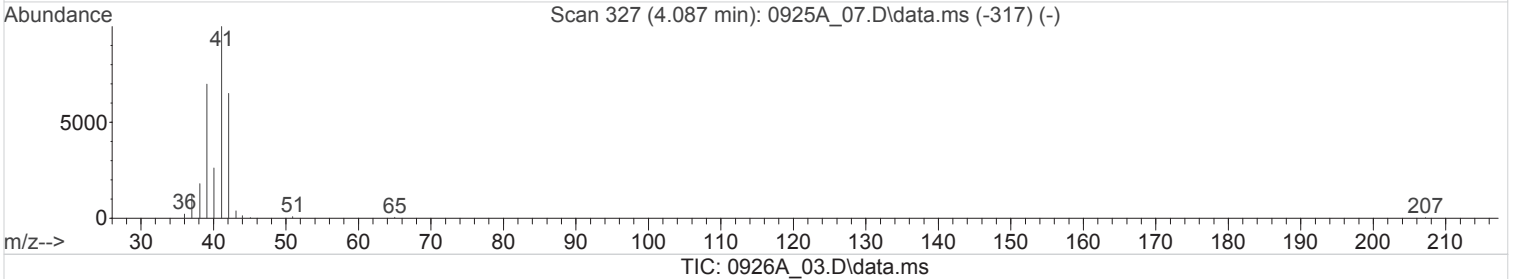
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(2) Propene (T,M)

4.089min (-4.089) 0.0000000 ppbv

Qvalue = 0

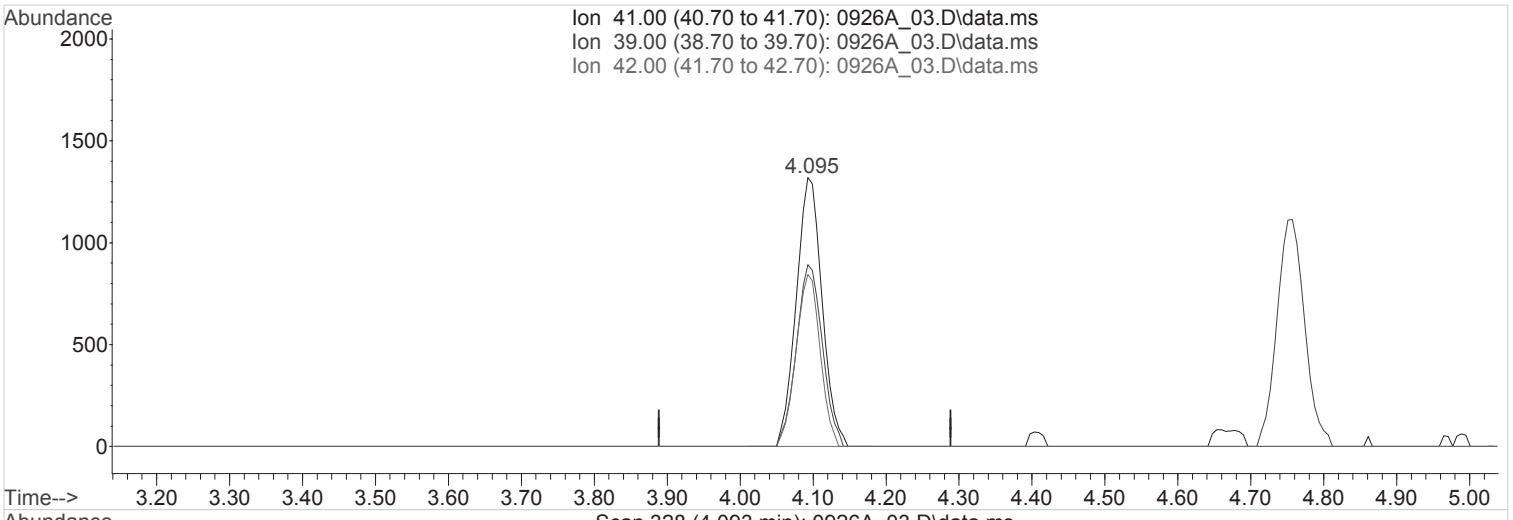
response 0

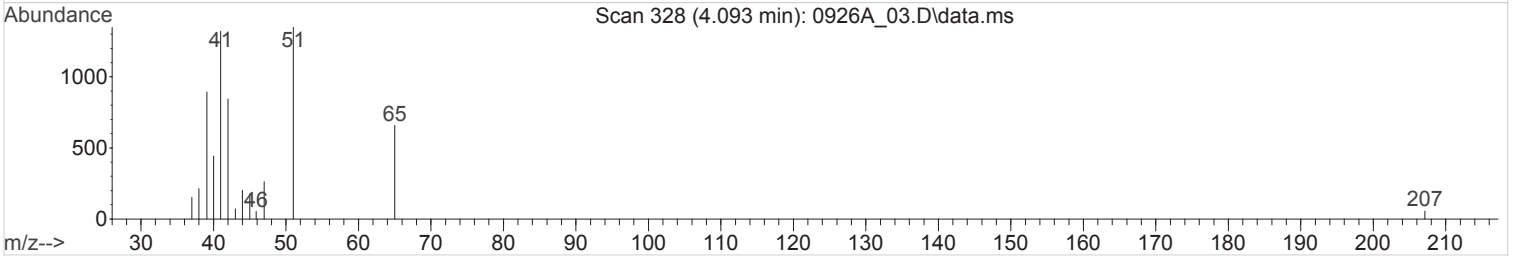
Ion	Exp%	Act%
41.00	100	0.00
39.00	70.60	0.00#
42.00	65.30	0.00#
0.00	0.00	0.00

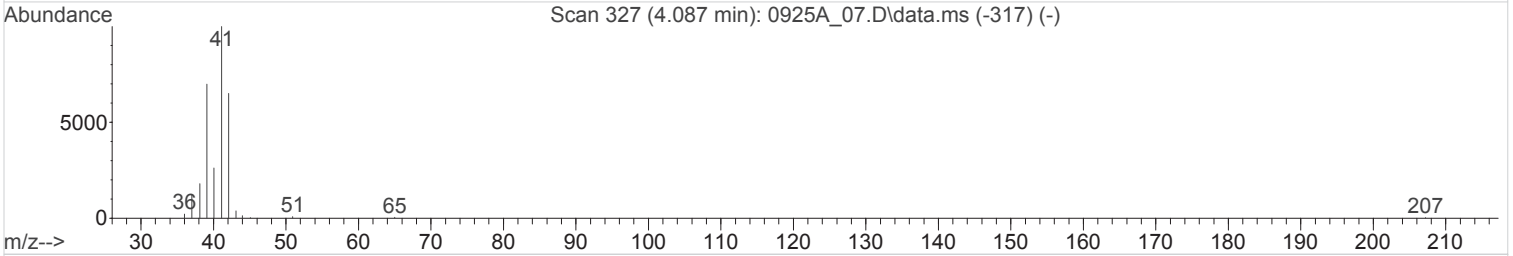
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(2) Propene (T,M)

4.093min (+0.004) 0.1268063 ppbv m

response 32523

Ion	Exp%	Act%
41.00	100	100
39.00	70.60	0.00#
42.00	65.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
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Quant Title :
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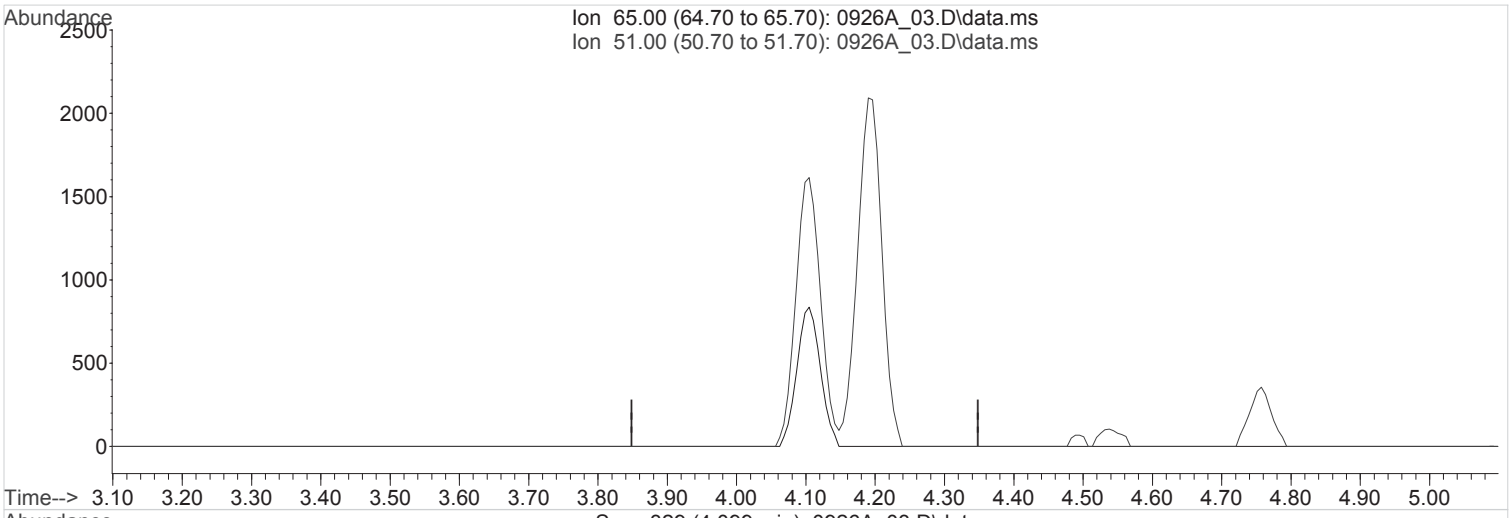
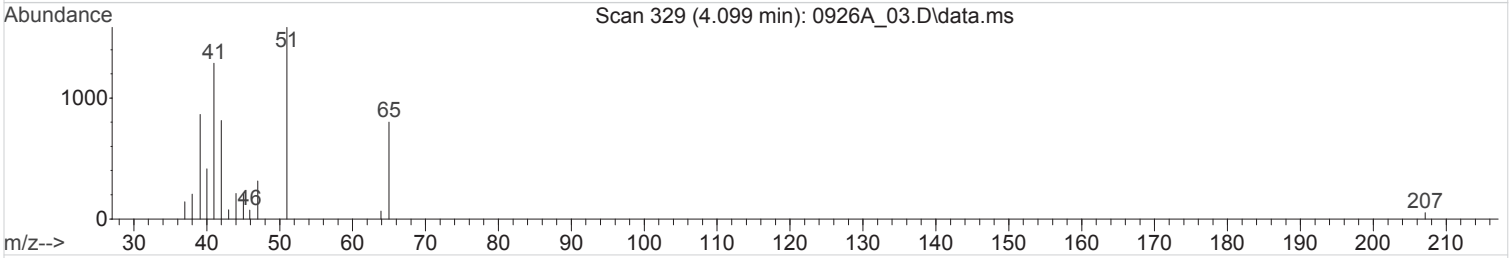
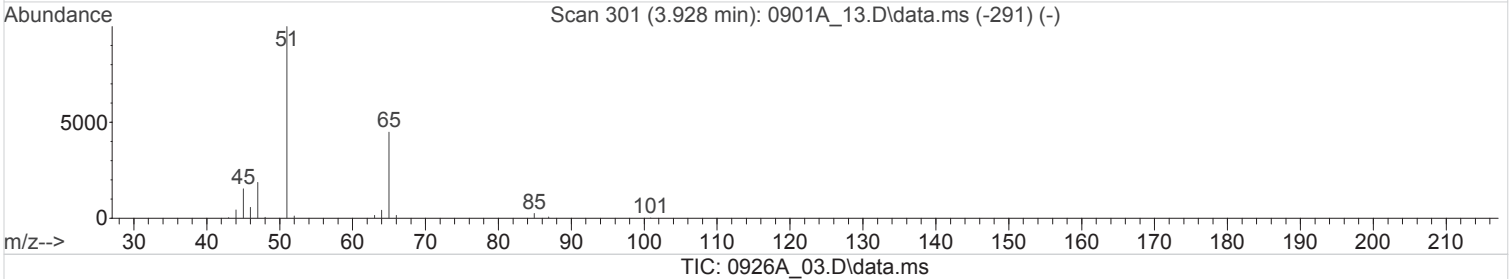
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.099min (-4.099) 0.0000000 ppbv

Qvalue = 0

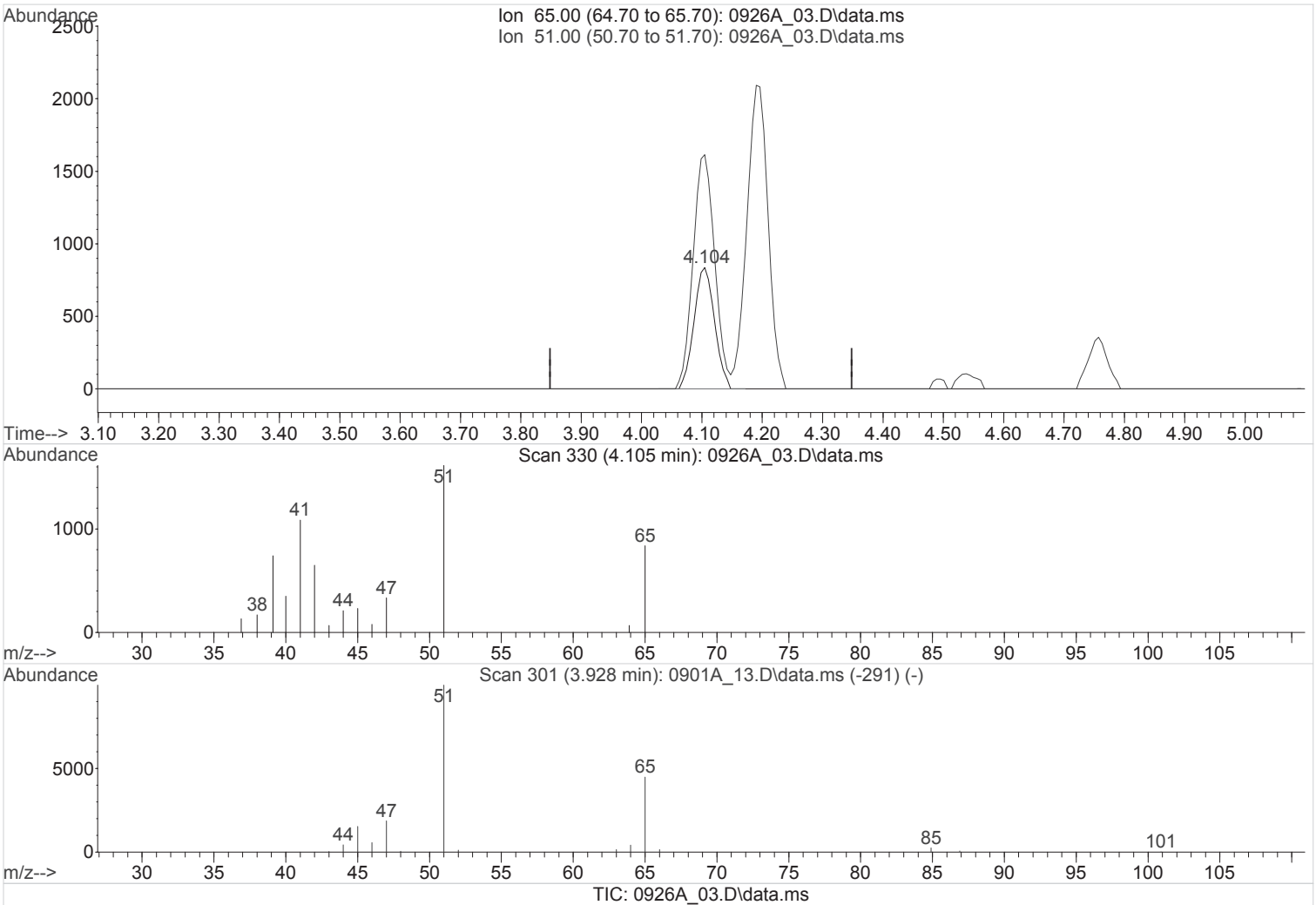
response 0

Ion	Exp%	Act%
65.00	100	0.00
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.105min (+0.006) 0.1252182 ppbv m

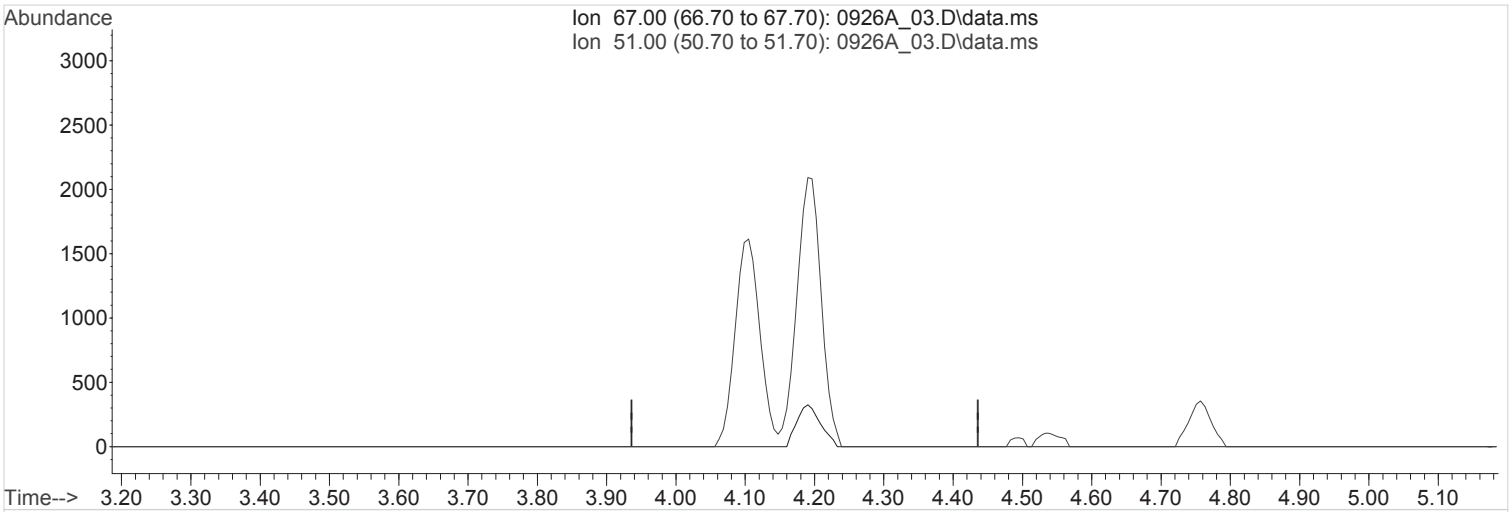
response 19727

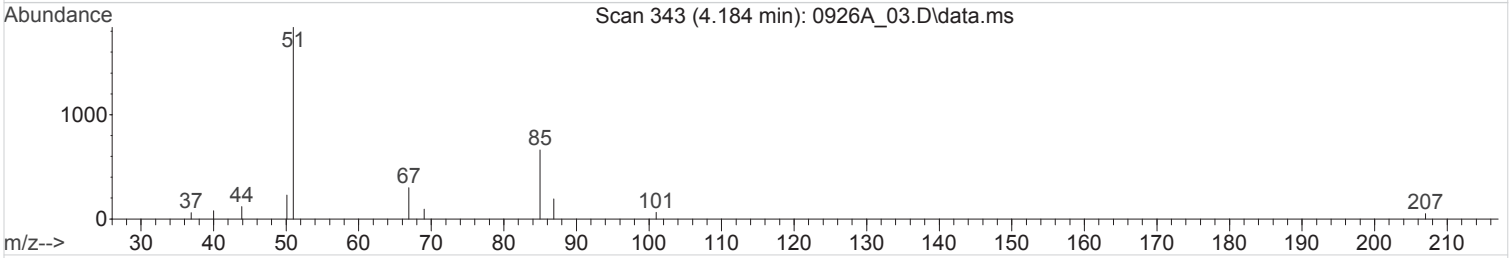
Ion	Exp%	Act%
65.00	100	100
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

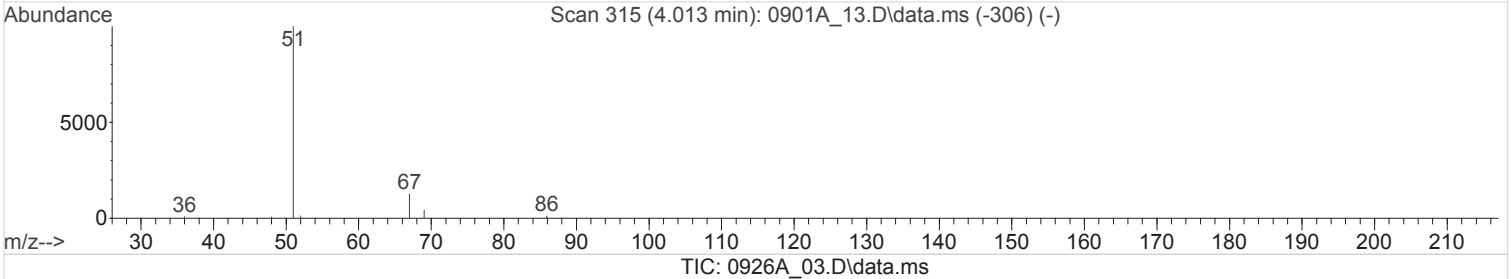
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

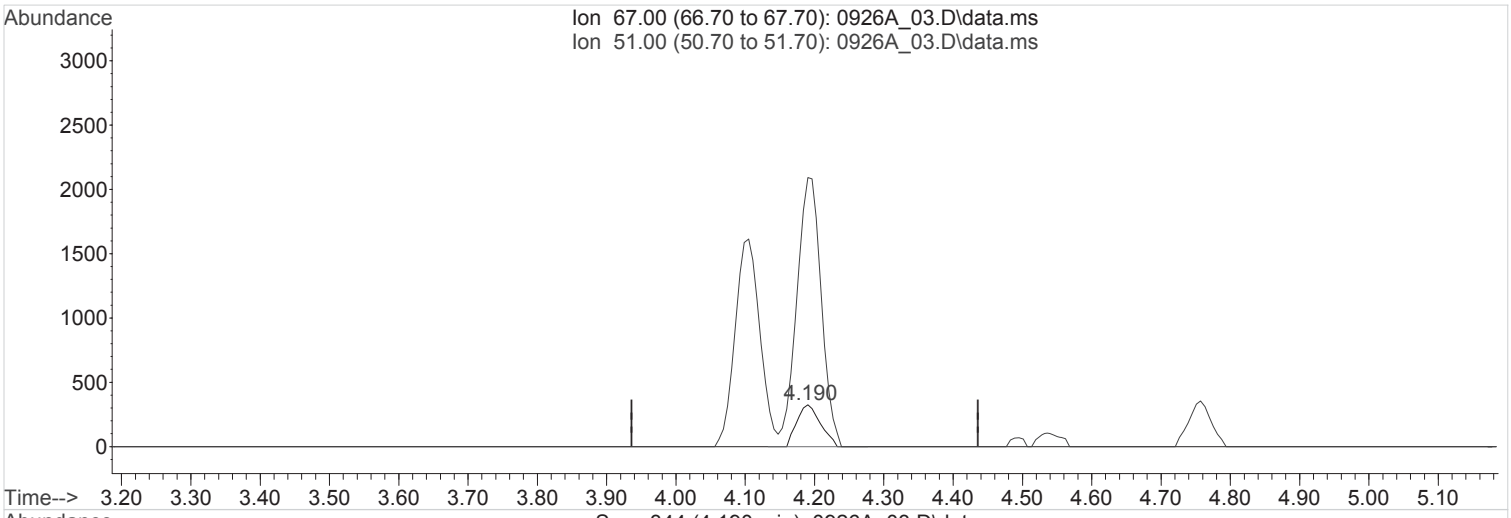
Qvalue = 0

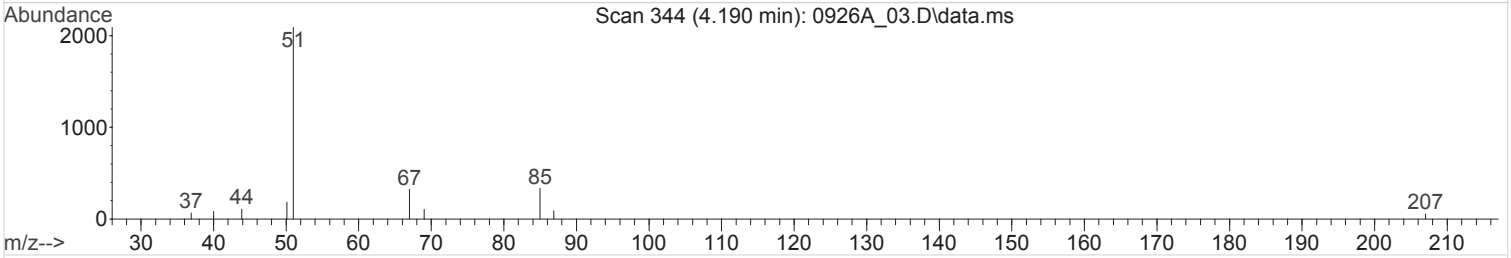
response 0

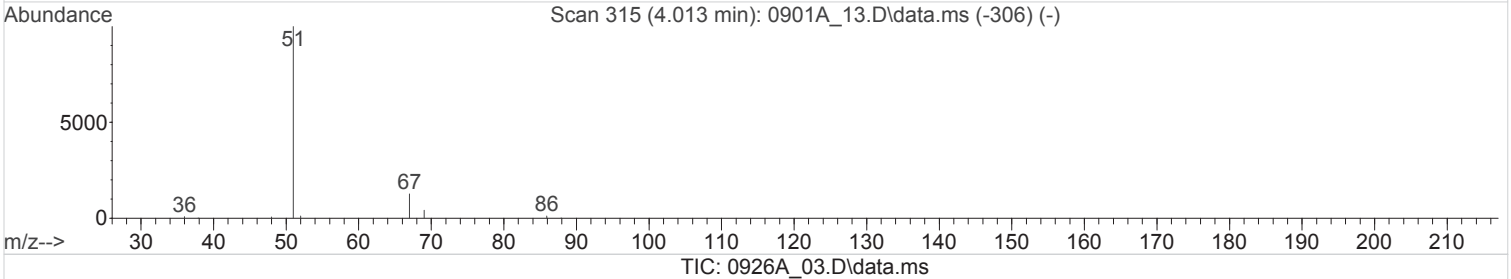
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.190min (+0.004) 0.1321466 ppbv m

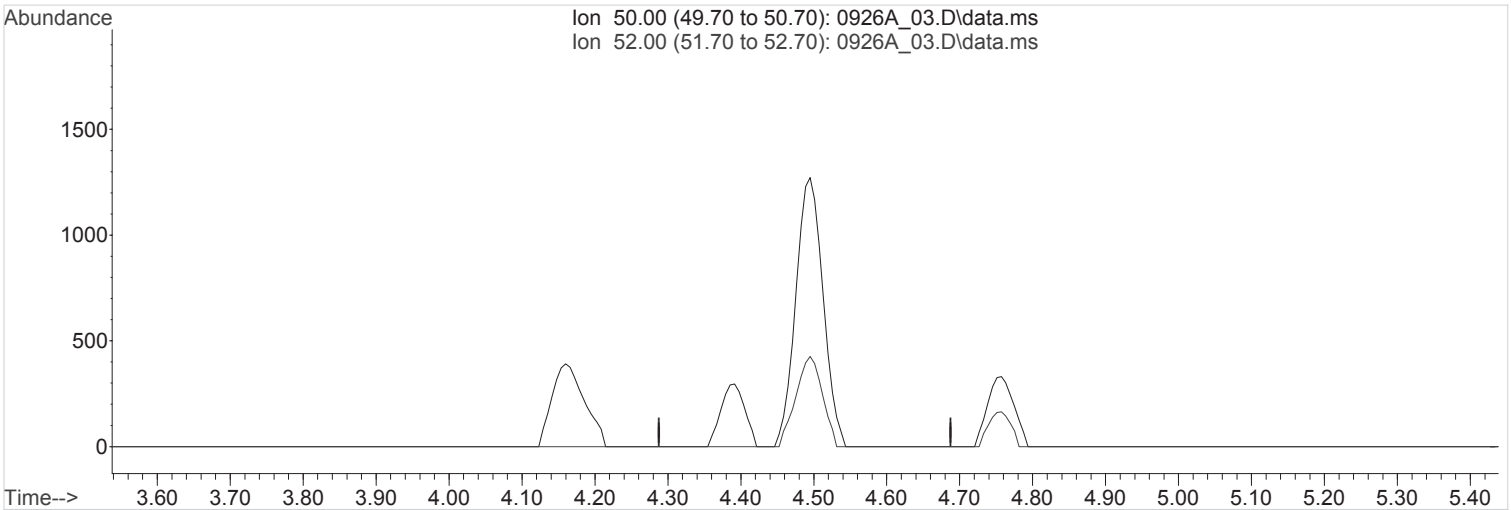
response 7652

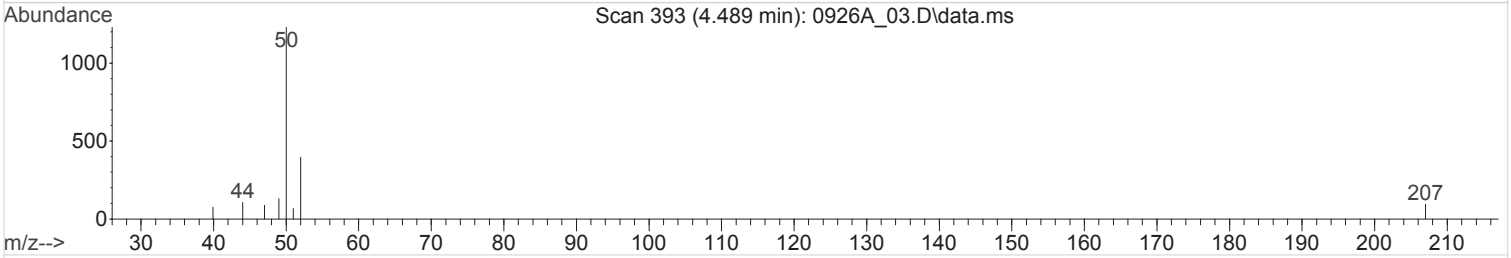
Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

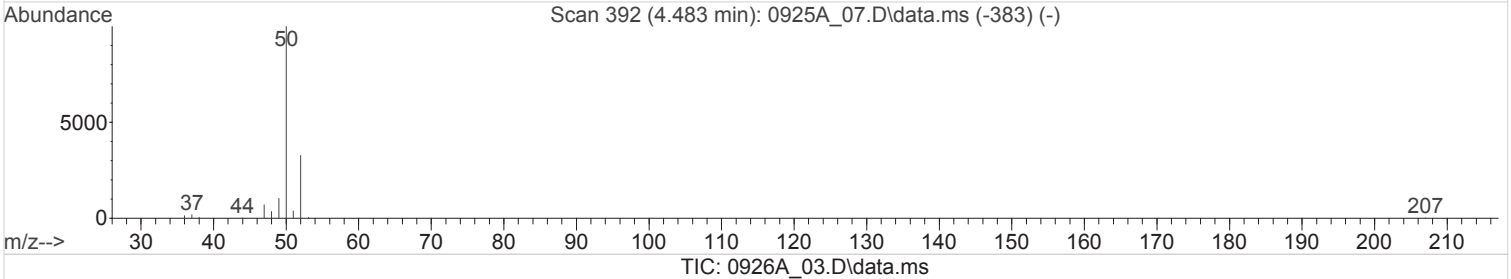
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(7) Chloromethane (T,M)

4.488min (-4.488) 0.0000000 ppbv

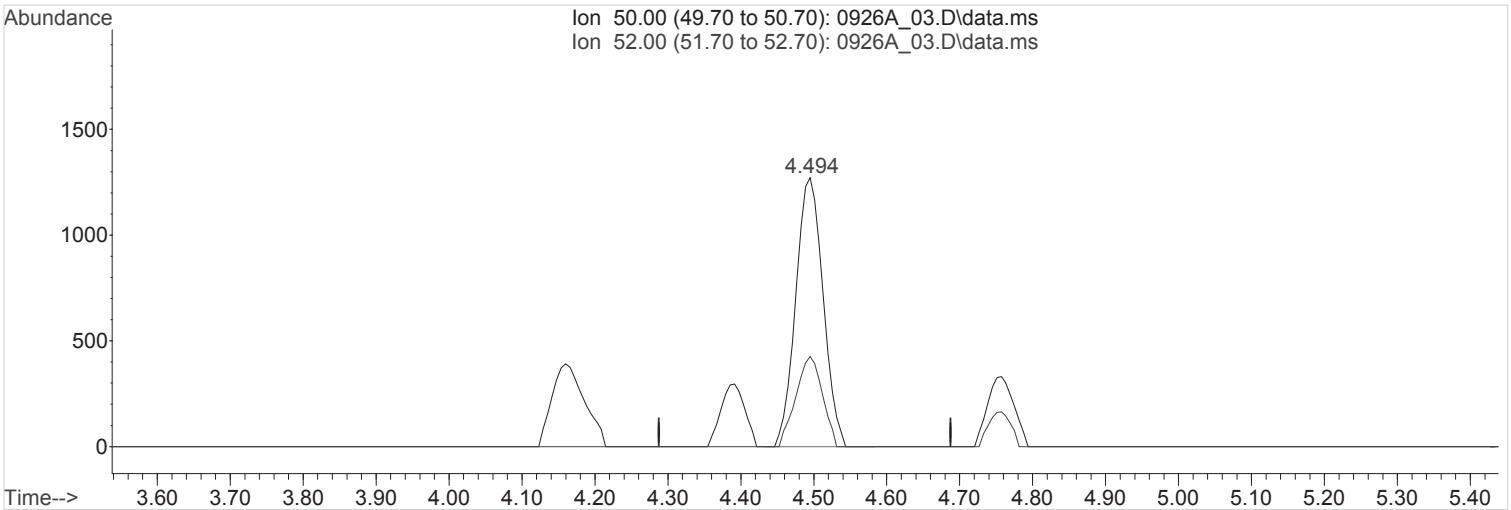
Qvalue = 0

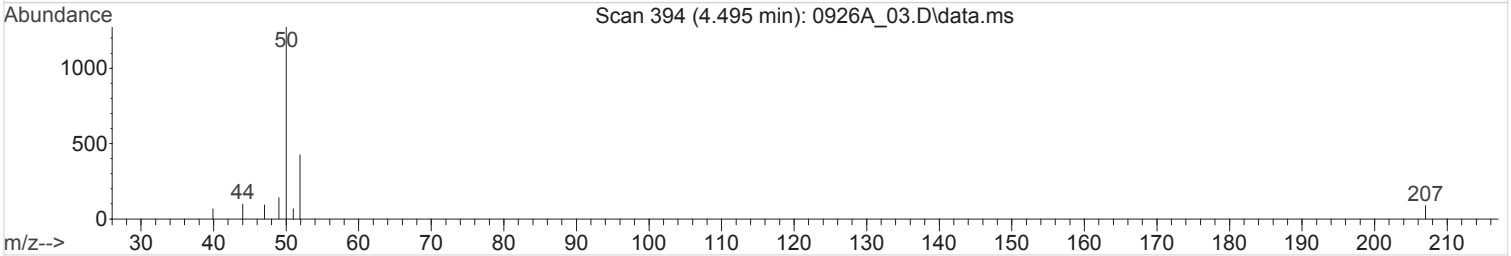
response 0

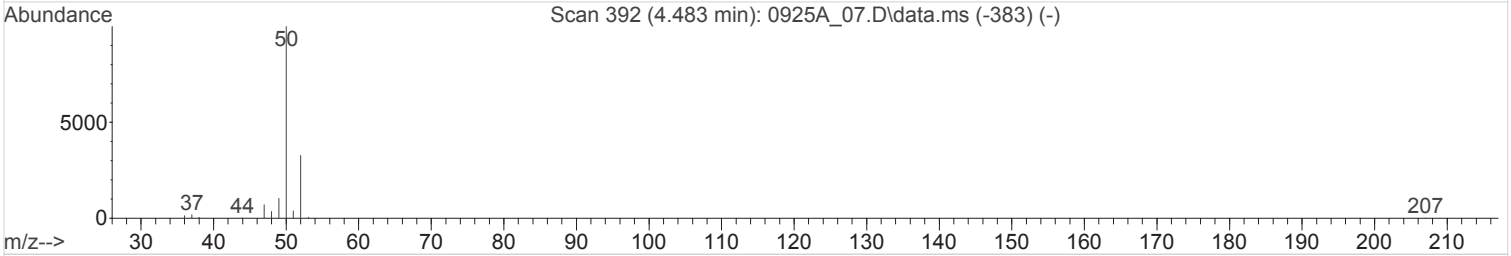
Ion	Exp%	Act%
50.00	100	0.00
52.00	31.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(7) Chloromethane (T,M)

4.495min (+0.007) 0.1280066 ppbv m

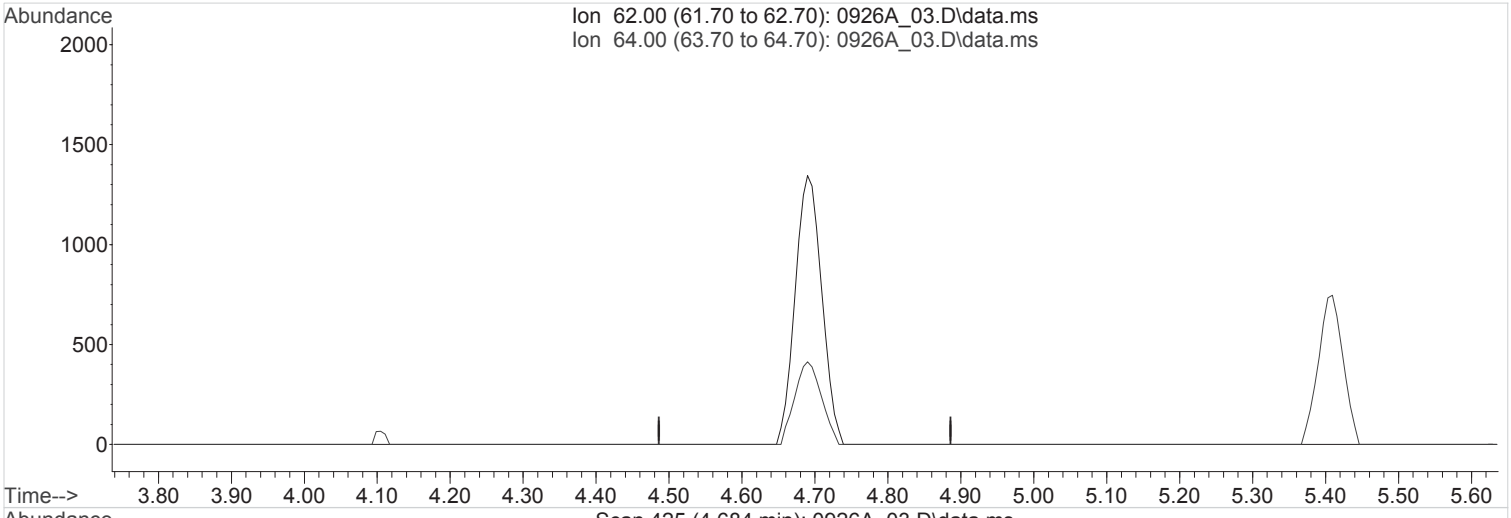
response 32982

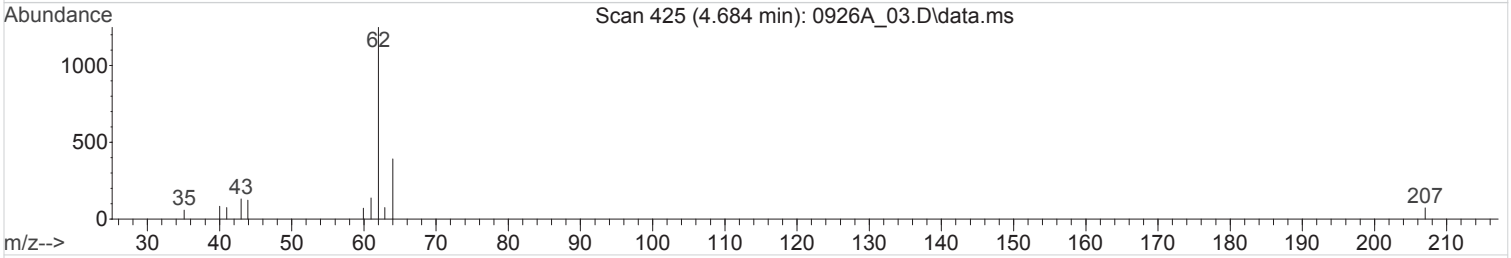
Ion	Exp%	Act%
50.00	100	100
52.00	31.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

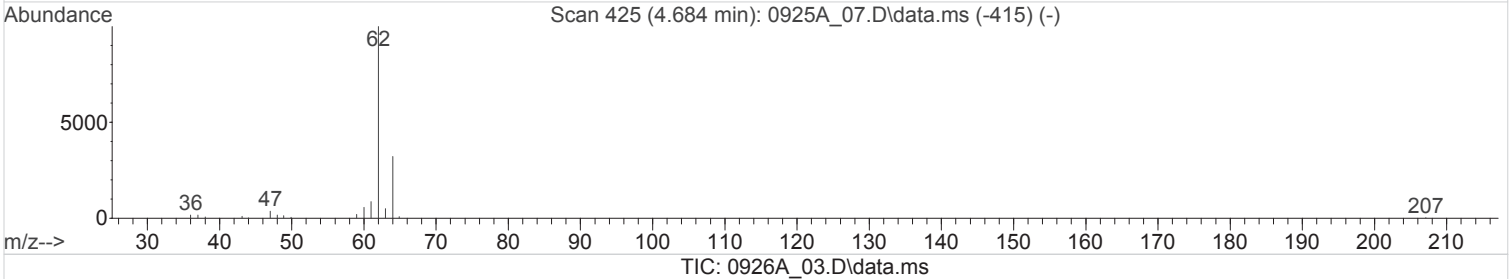
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(8) Vinyl Chloride (T,M)

4.686min (-4.686) 0.0000000 ppbv

Qvalue = 0

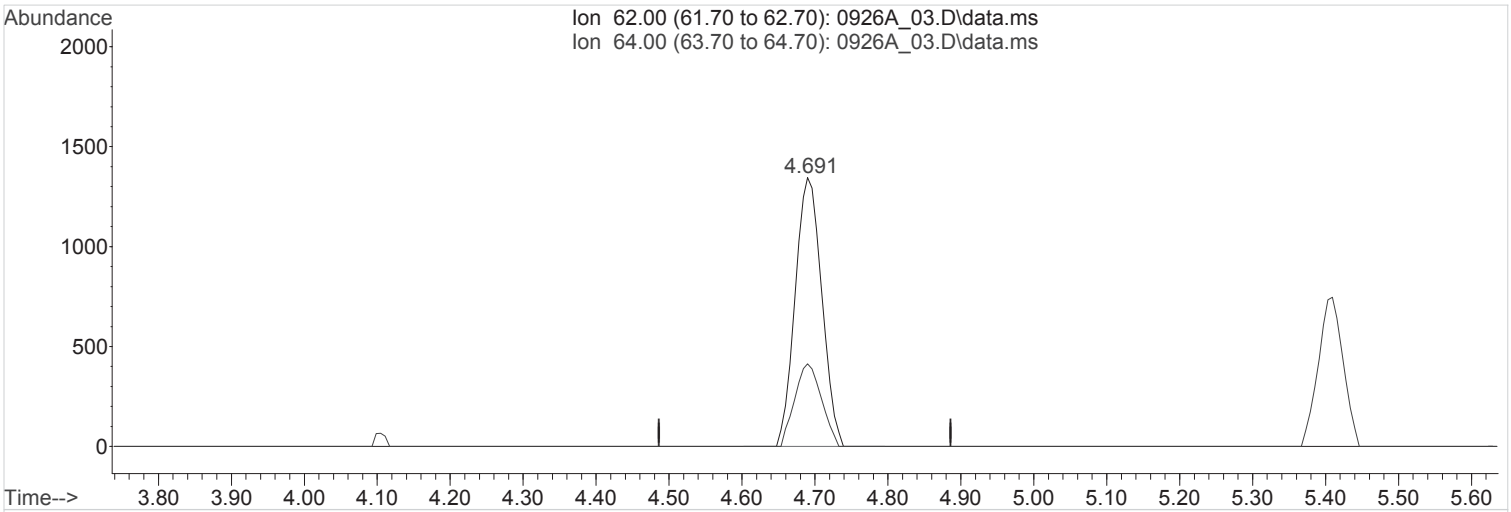
response 0

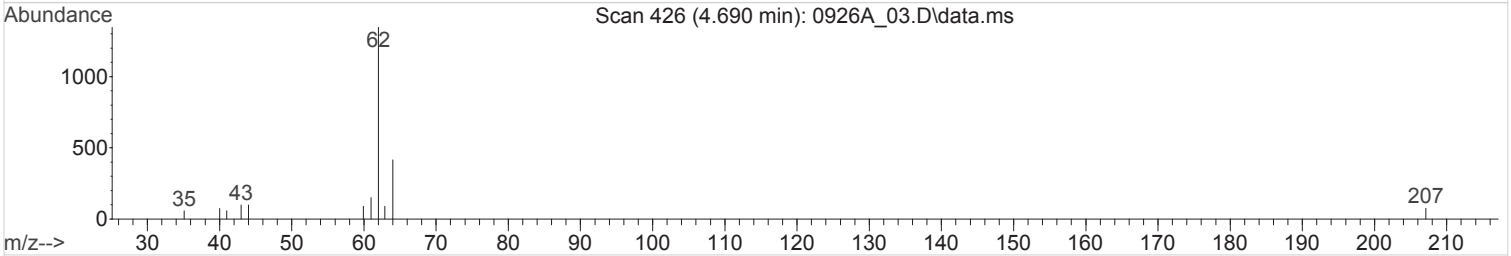
Ion	Exp%	Act%
62.00	100	0.00
64.00	31.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

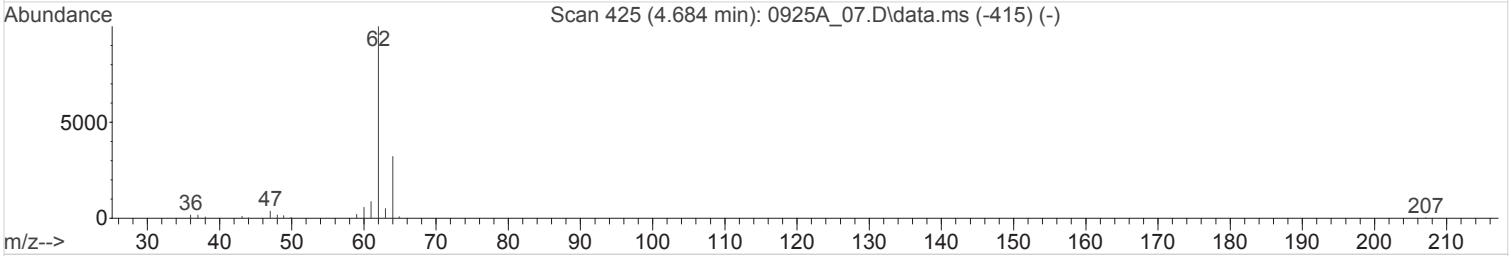
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(8) Vinyl Chloride (T,M)

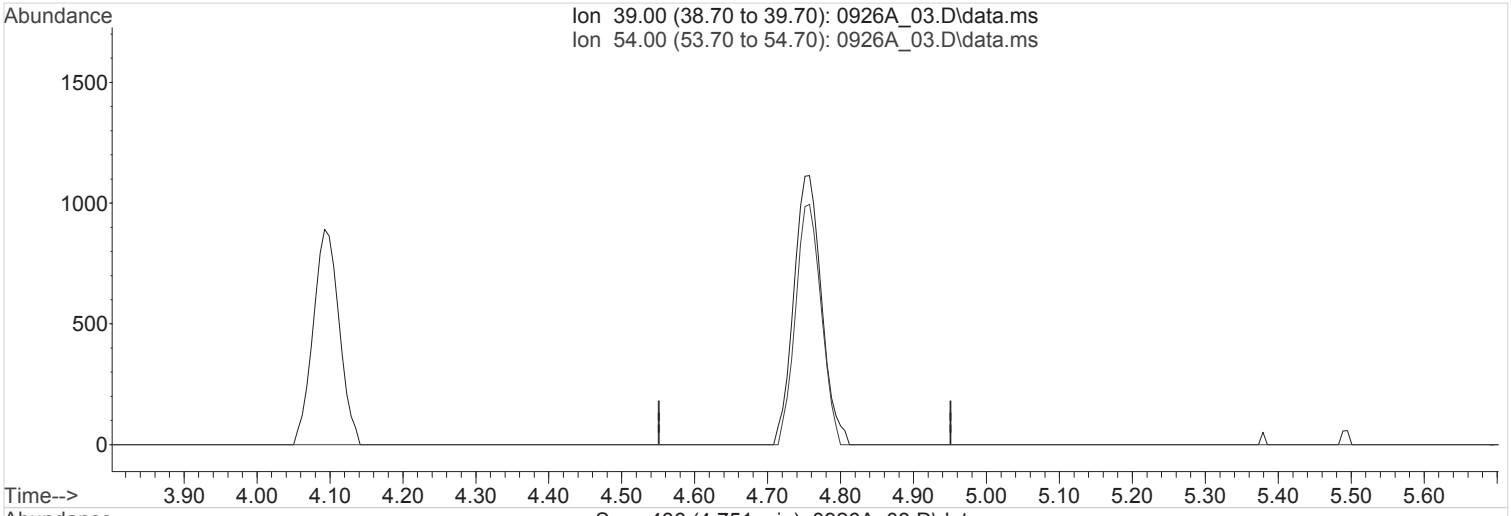
4.690min (+0.004) 0.1225522 ppbv m

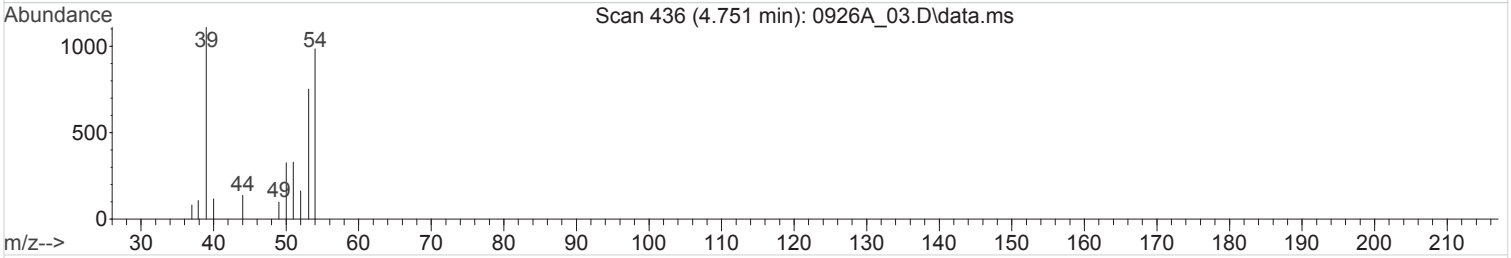
response 34091

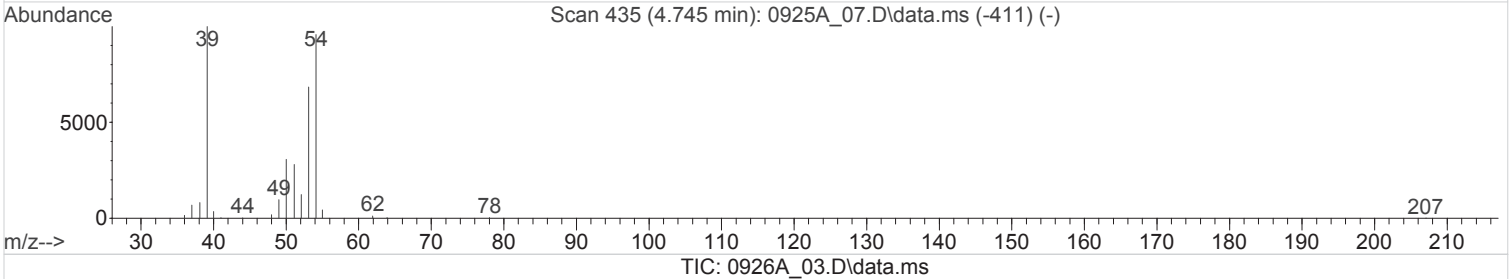
Ion	Exp%	Act%
62.00	100	100
64.00	31.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(9) 1,3-Butadiene (T,M)

4.751min (-4.751) 0.0000000 ppbv

Qvalue = 0

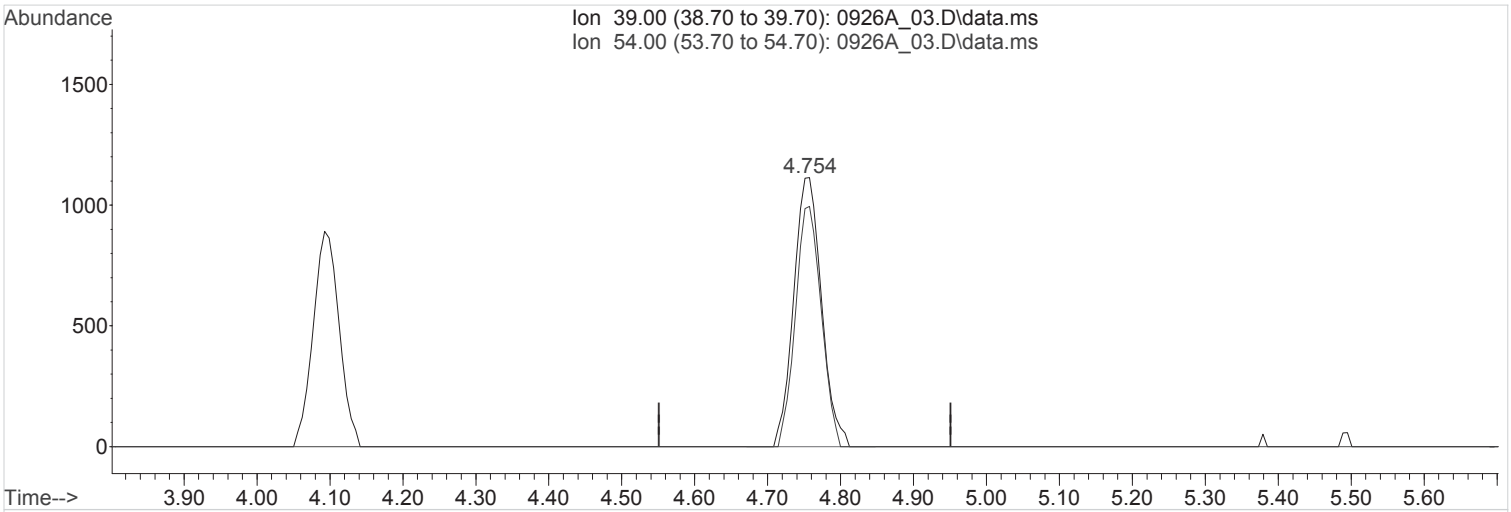
response 0

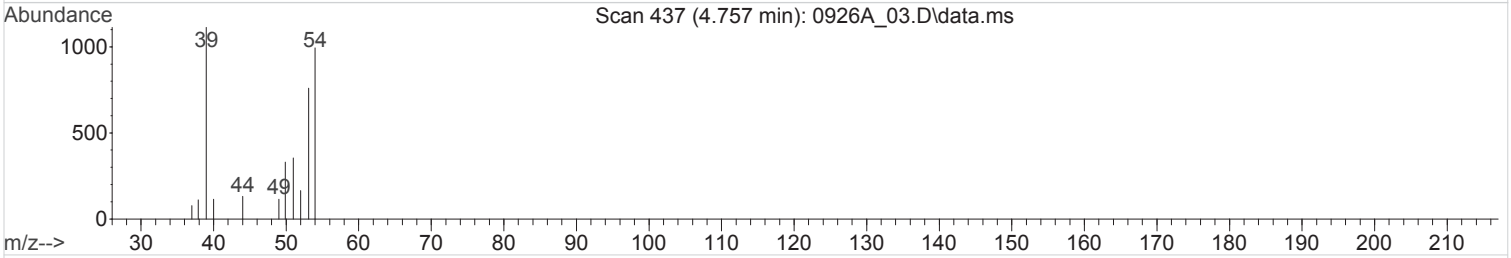
Ion	Exp%	Act%
39.00	100	0.00
54.00	91.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

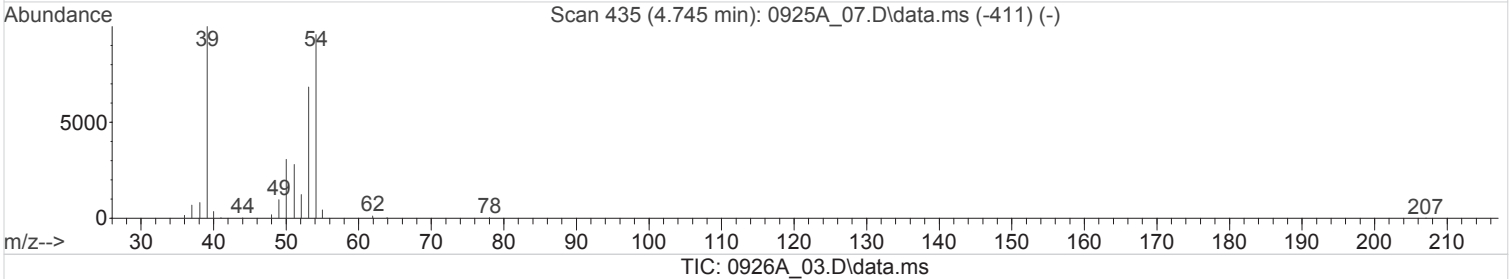
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(9) 1,3-Butadiene (T,M)

4.757min (+0.006) 0.1262531 ppbv m

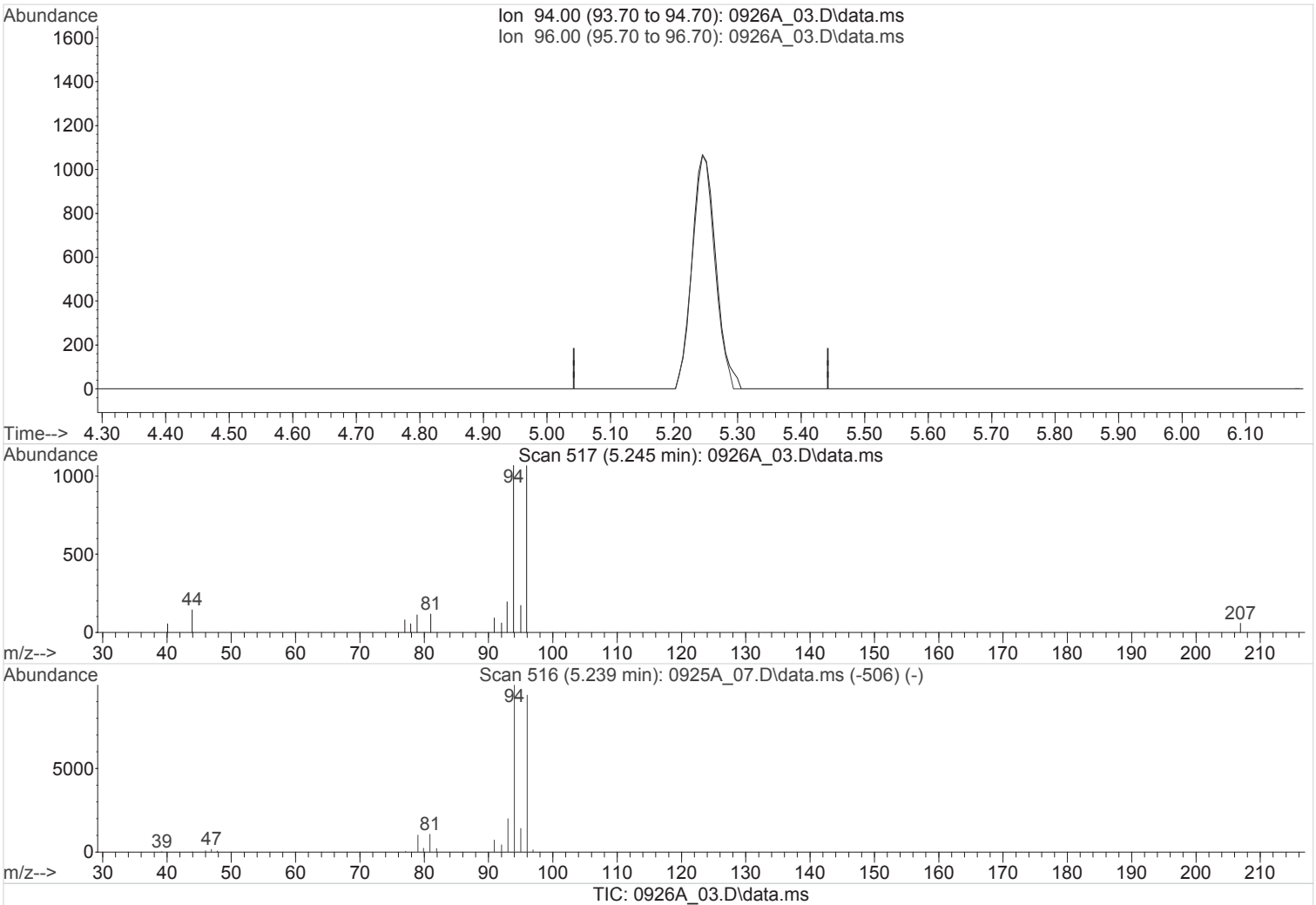
response 29588

Ion	Exp%	Act%
39.00	100	100
54.00	91.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



(10) Bromomethane (T,M)

5.243min (-5.243) 0.0000000 ppbv

Qvalue = 0

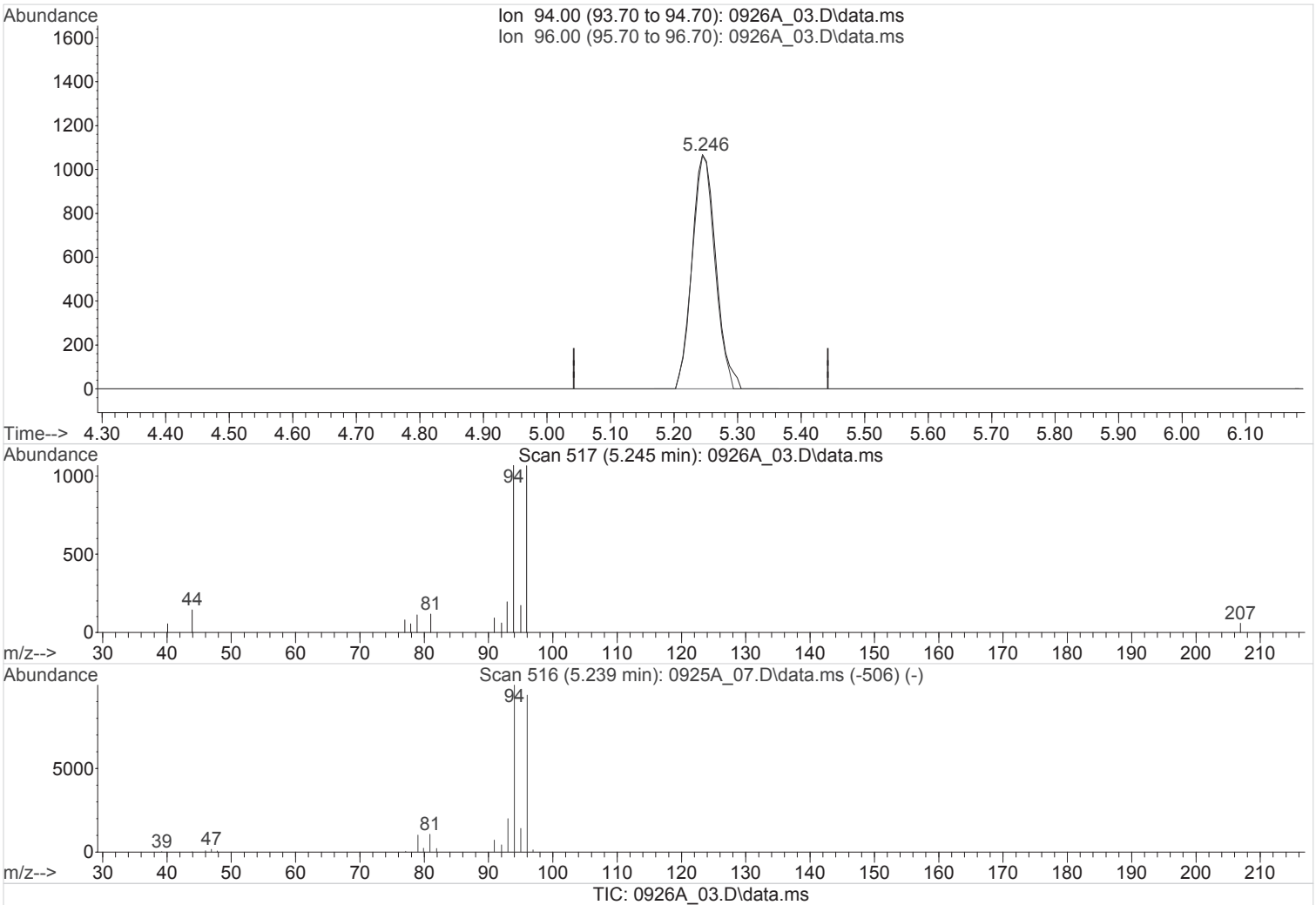
response 0

Ion	Exp%	Act%
94.00	100	0.00
96.00	94.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(10) Bromomethane (T,M)

5.245min (+0.002) 0.1334006 ppbv m

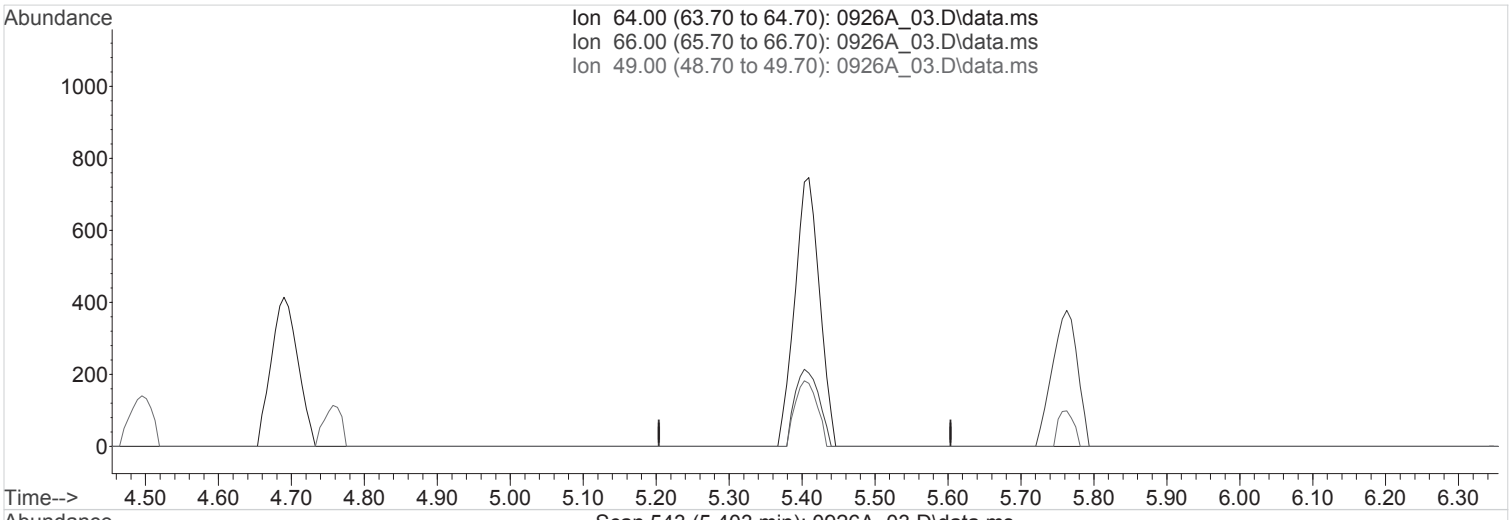
response 27700

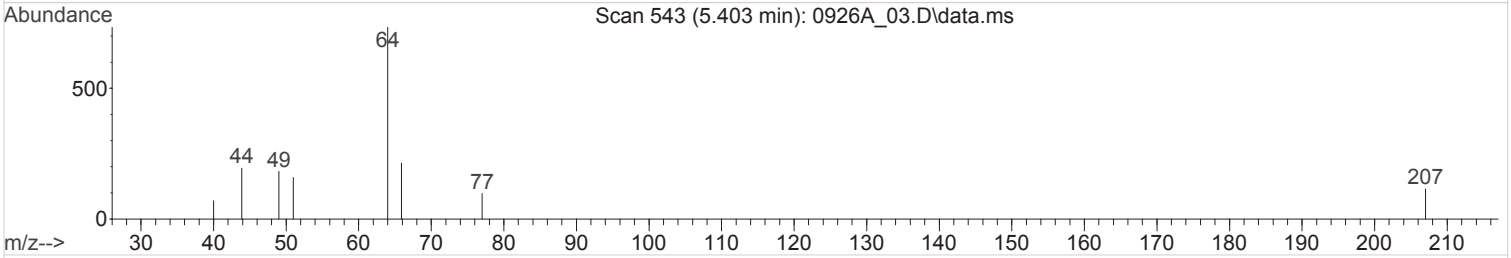
Ion	Exp%	Act%
94.00	100	100
96.00	94.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

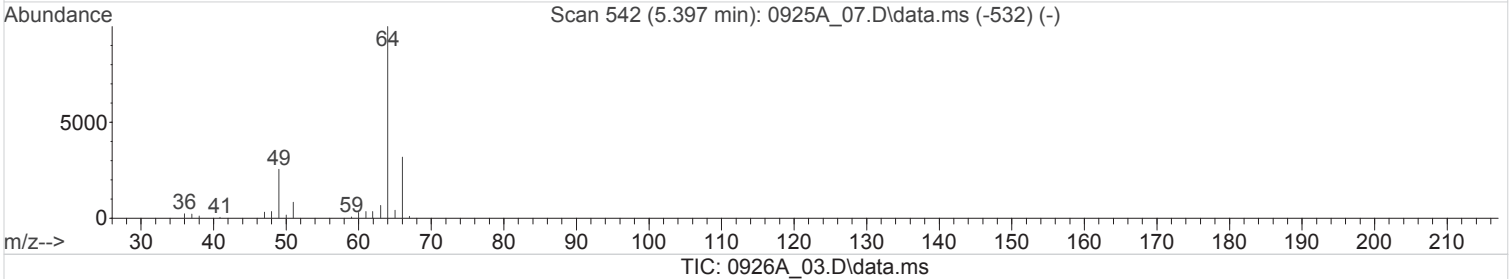
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(11) Chloroethane (T,M)

5.404min (-5.404) 0.0000000 ppbv

Qvalue = 0

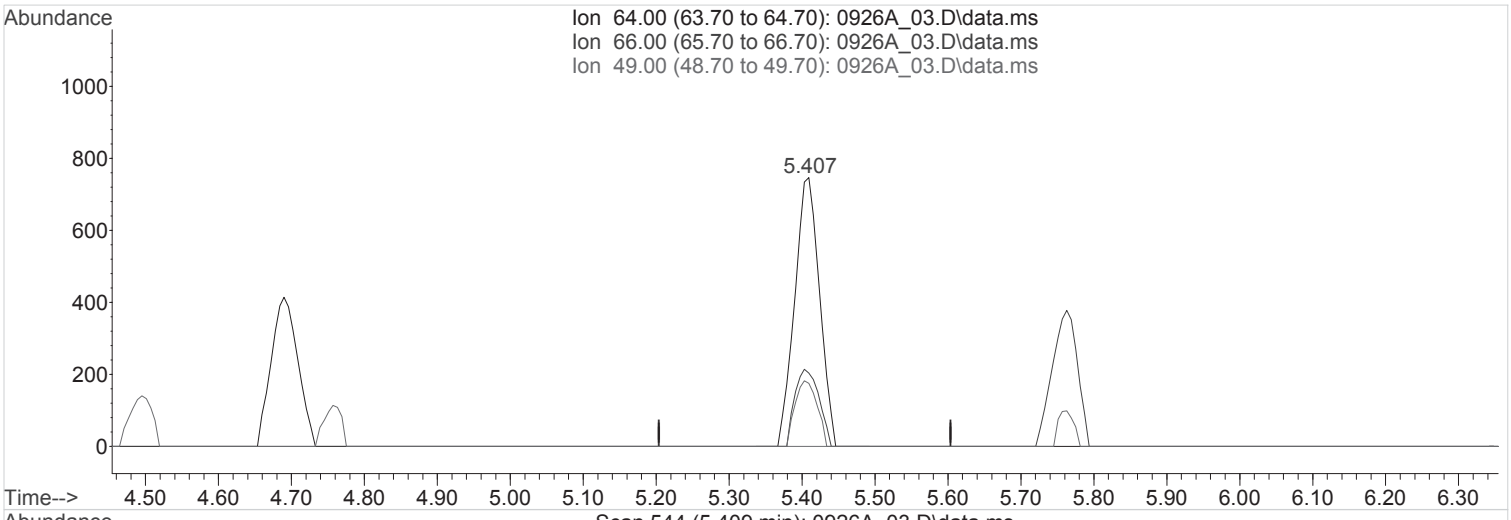
response 0

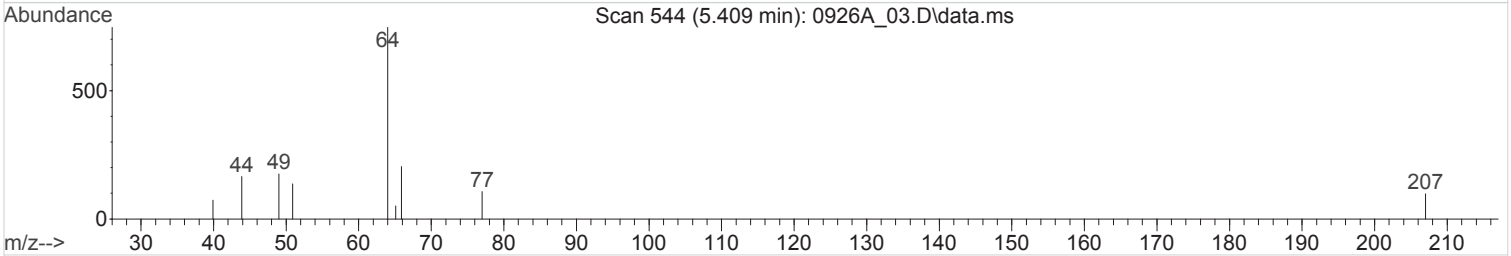
Ion	Exp%	Act%
64.00	100	0.00
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

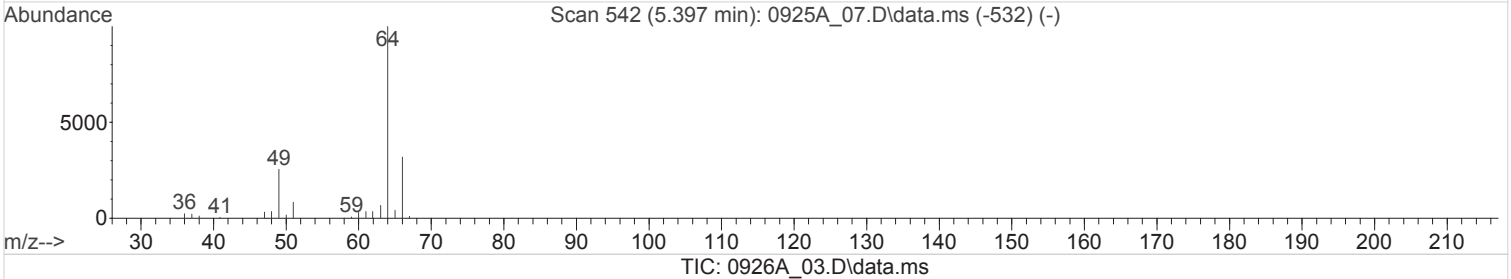
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(11) Chloroethane (T,M)

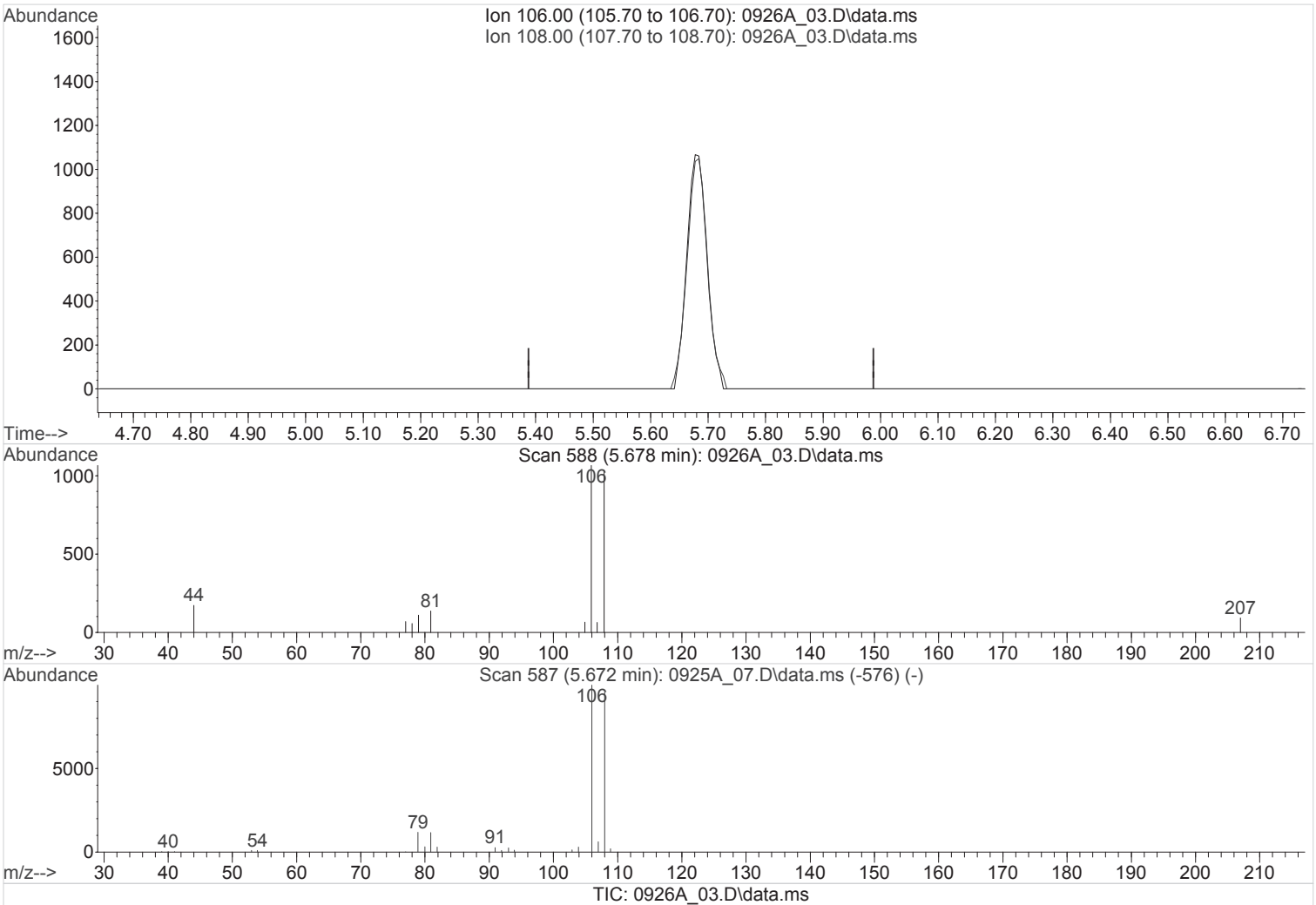
5.409min (+0.005) 0.1213180 ppbv m

response 17664

Ion	Exp%	Act%
64.00	100	100
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(12) Vinyl Bromide (T,M)

5.678min (-5.678) 0.0000000 ppbv

Qvalue = 0

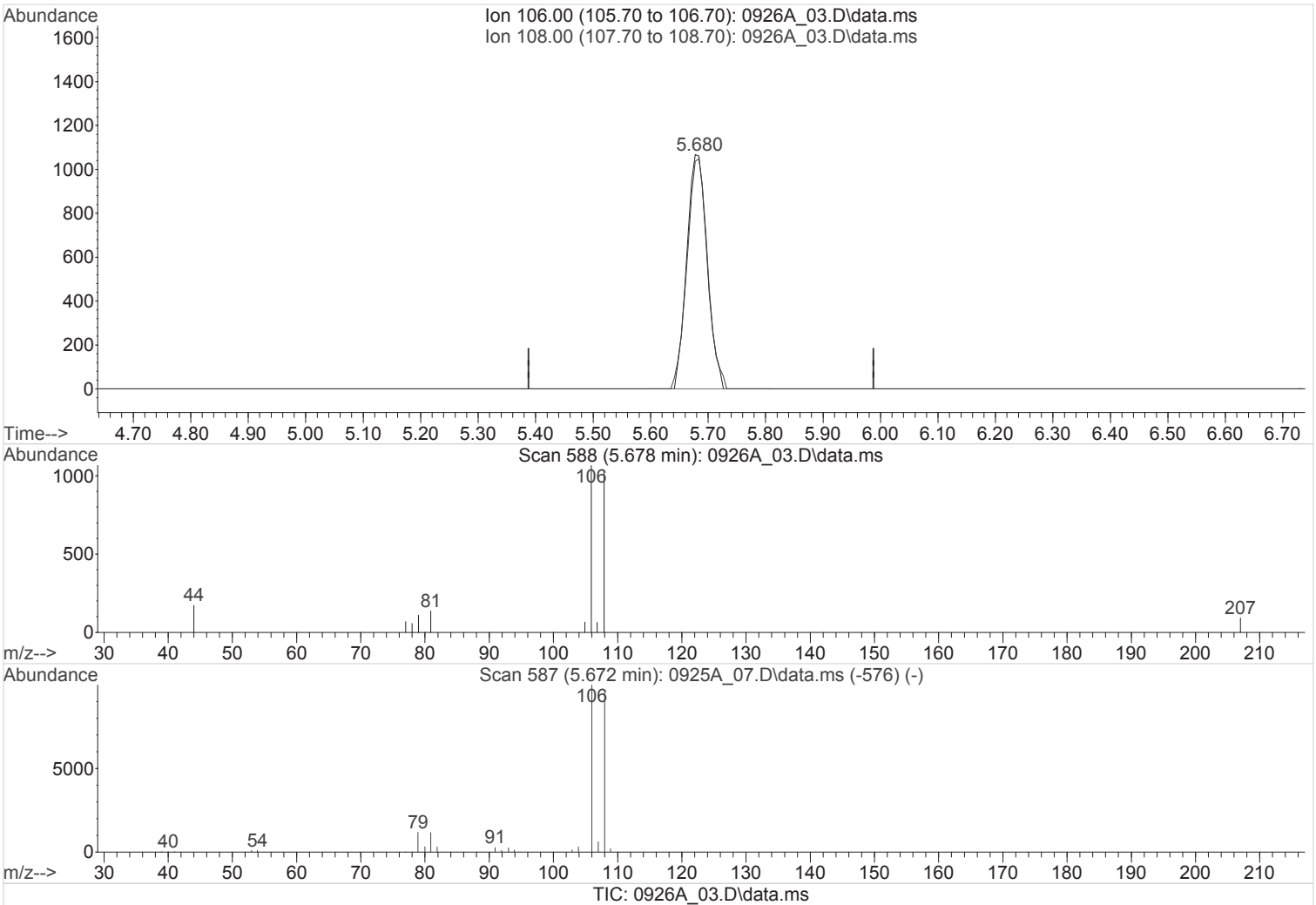
response 0

Ion	Exp%	Act%
106.00	100	0.00
108.00	92.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(12) Vinyl Bromide (T,M)

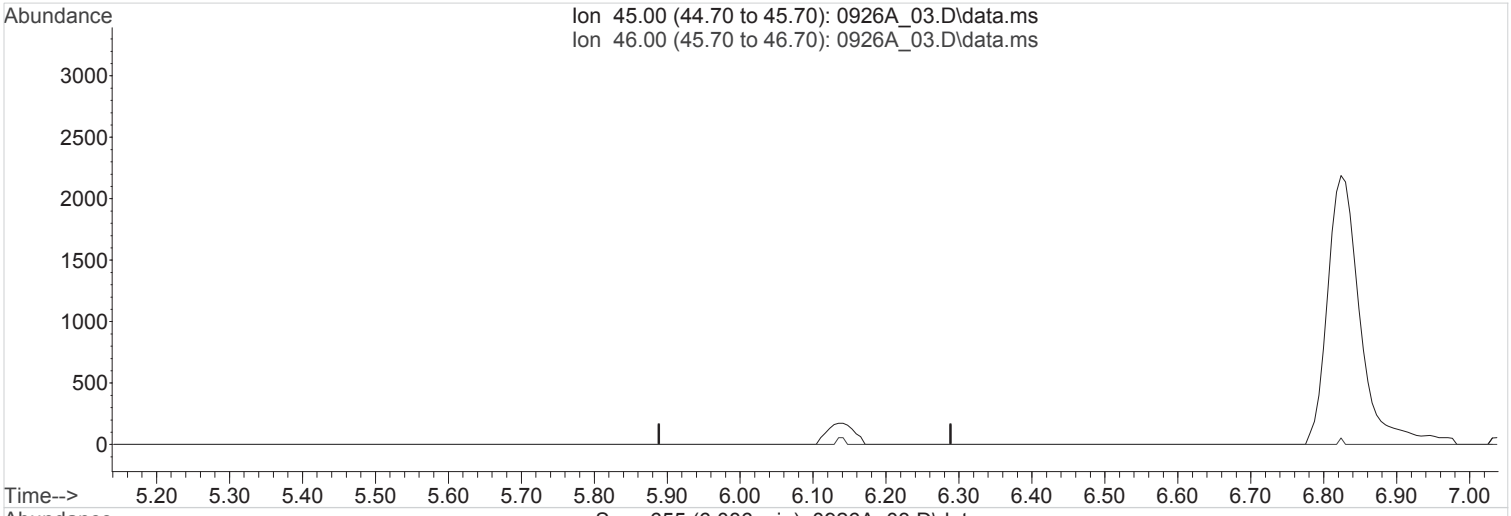
5.678min (-0.000) 0.1252657 ppbv m

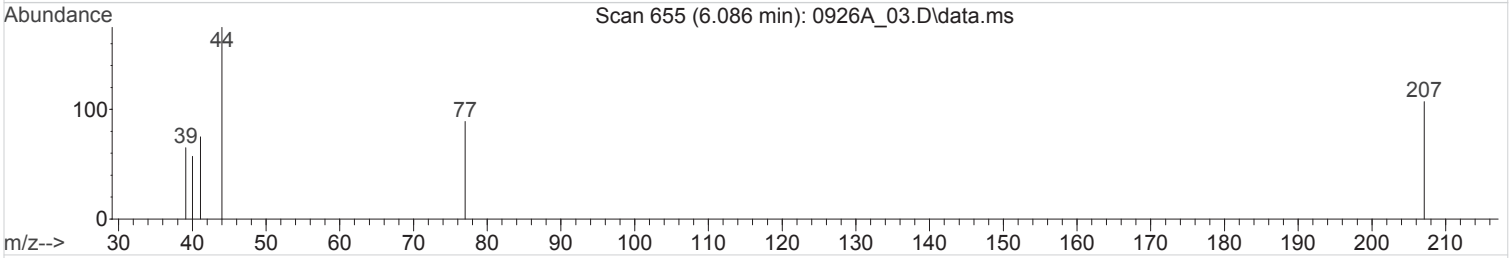
response 26081

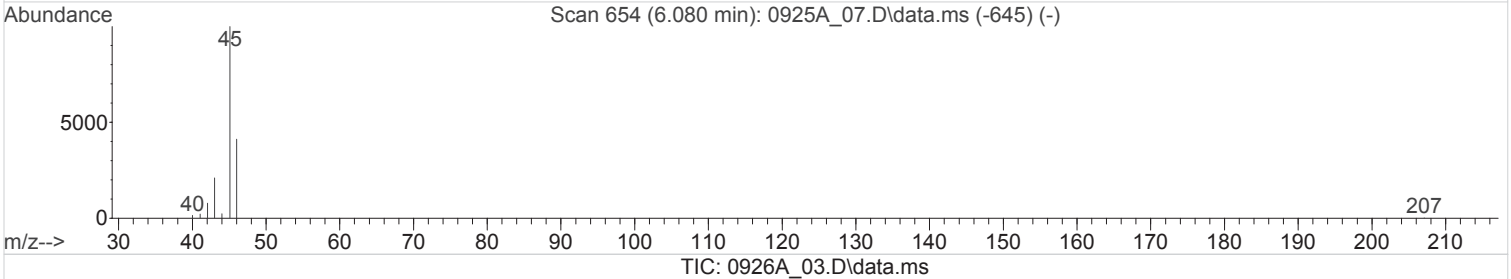
Ion	Exp%	Act%
106.00	100	100
108.00	92.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

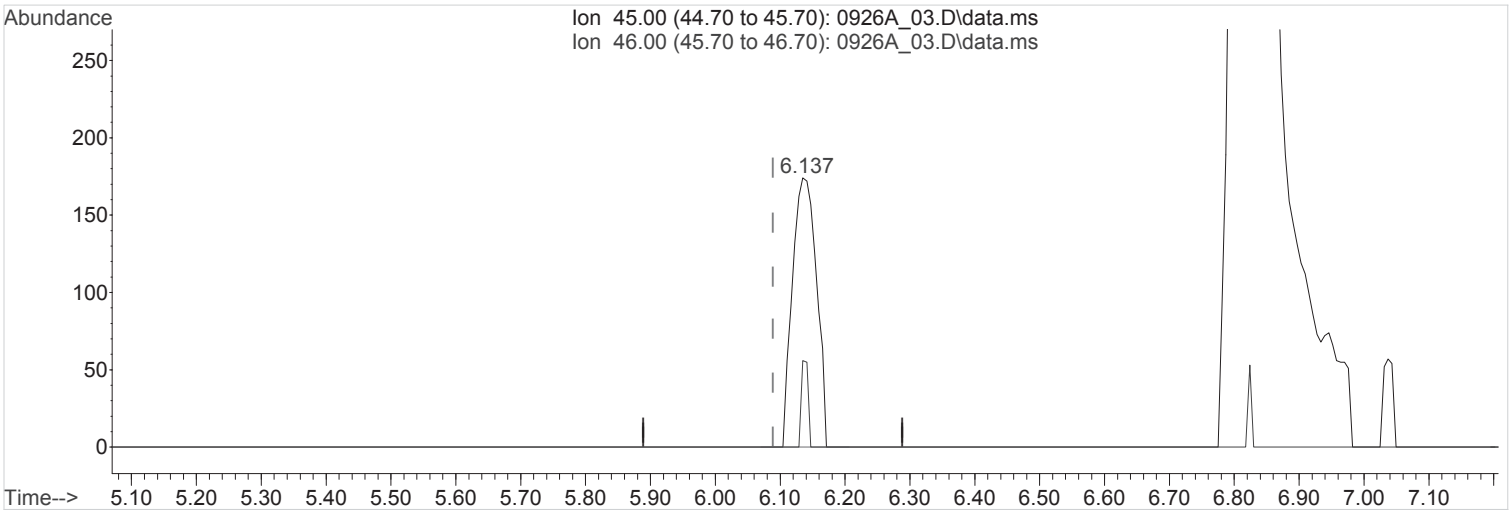
response 0

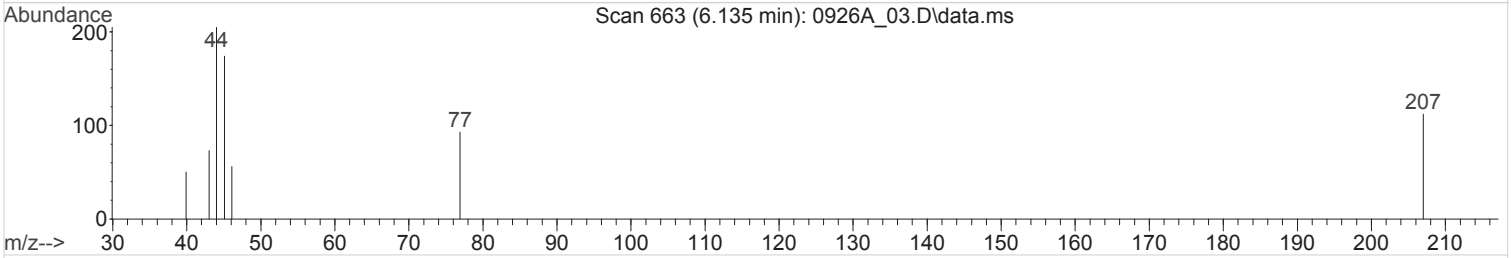
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

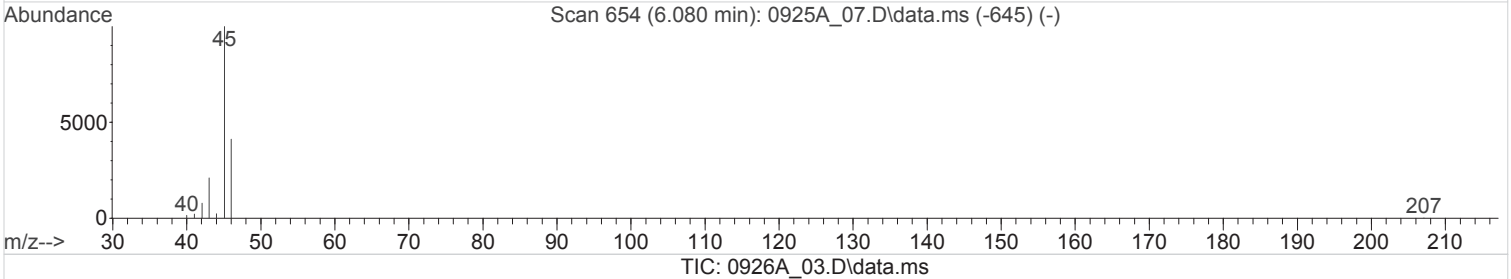
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(14) Ethanol (T,M)

6.135min (+0.046) 0.1173046 ppbv m

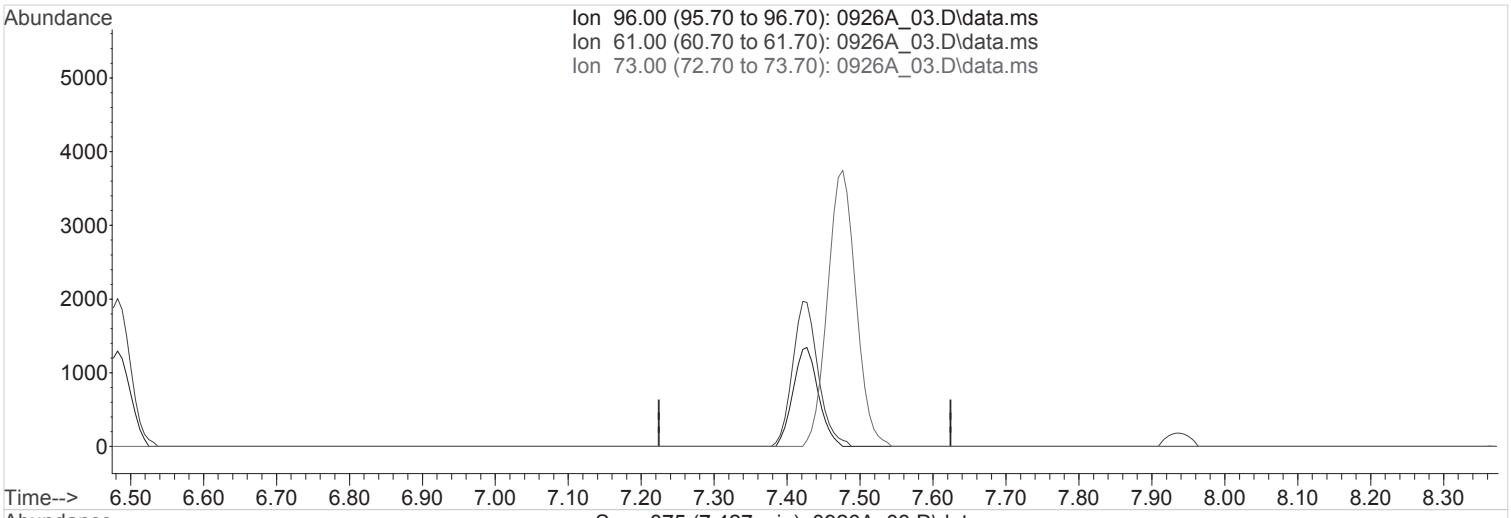
response 4470

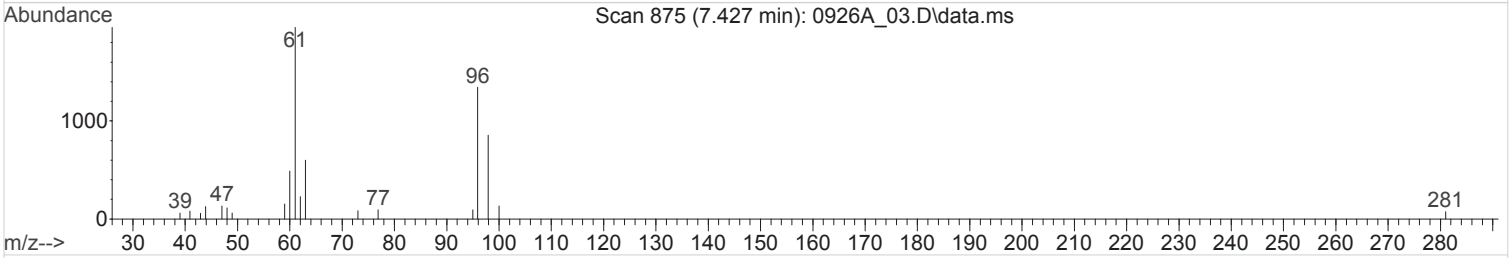
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

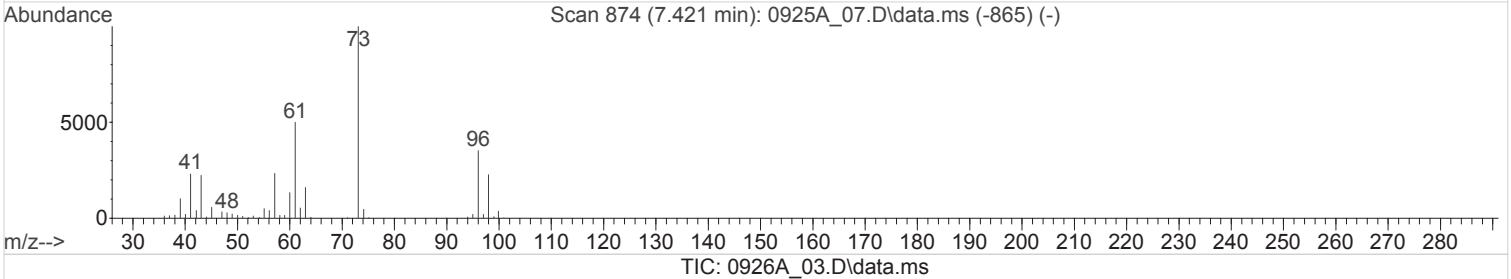
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(24) Trans-1,2-Dichloroethene (T,M)

7.424min (-7.424) 0.0000000 ppbv

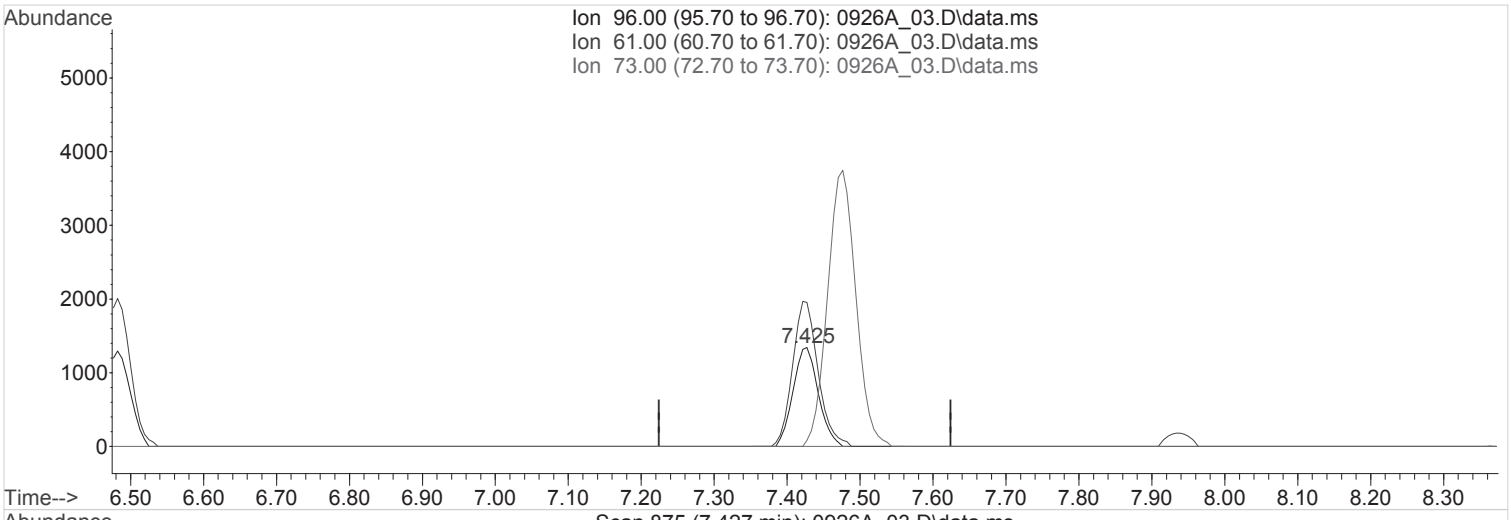
Qvalue = 0

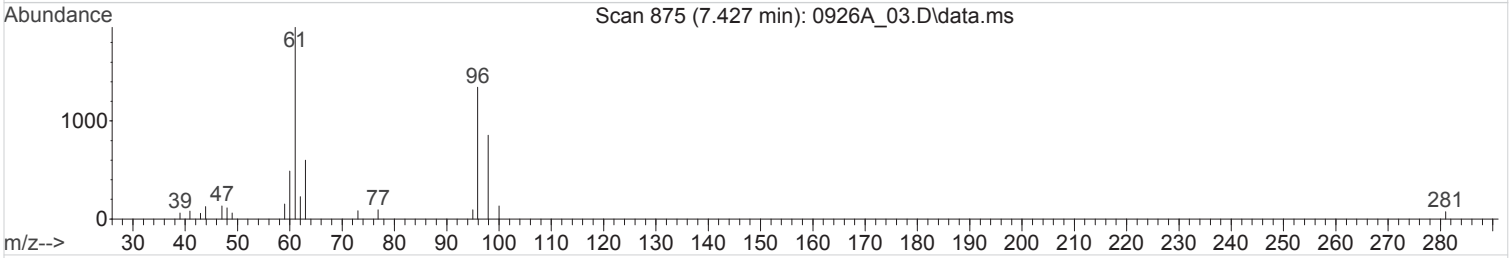
response 0

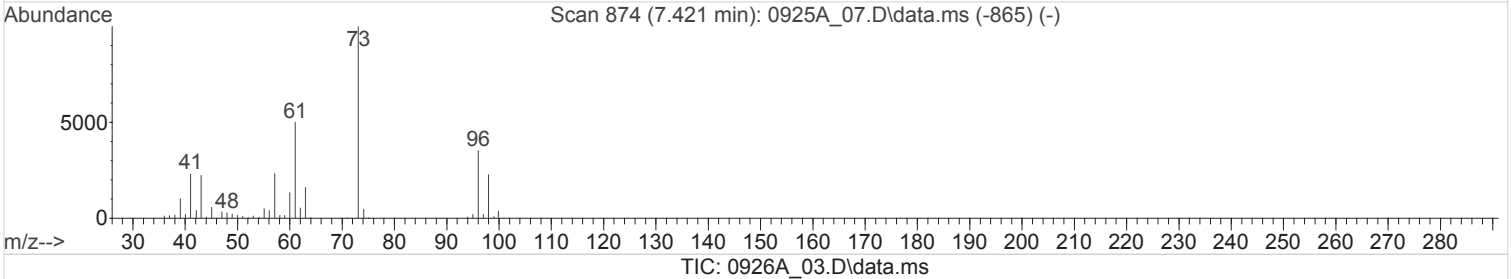
Ion	Exp%	Act%
96.00	100	0.00
61.00	151.20	0.00#
73.00	305.70	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(24) Trans-1,2-Dichloroethene (T,M)

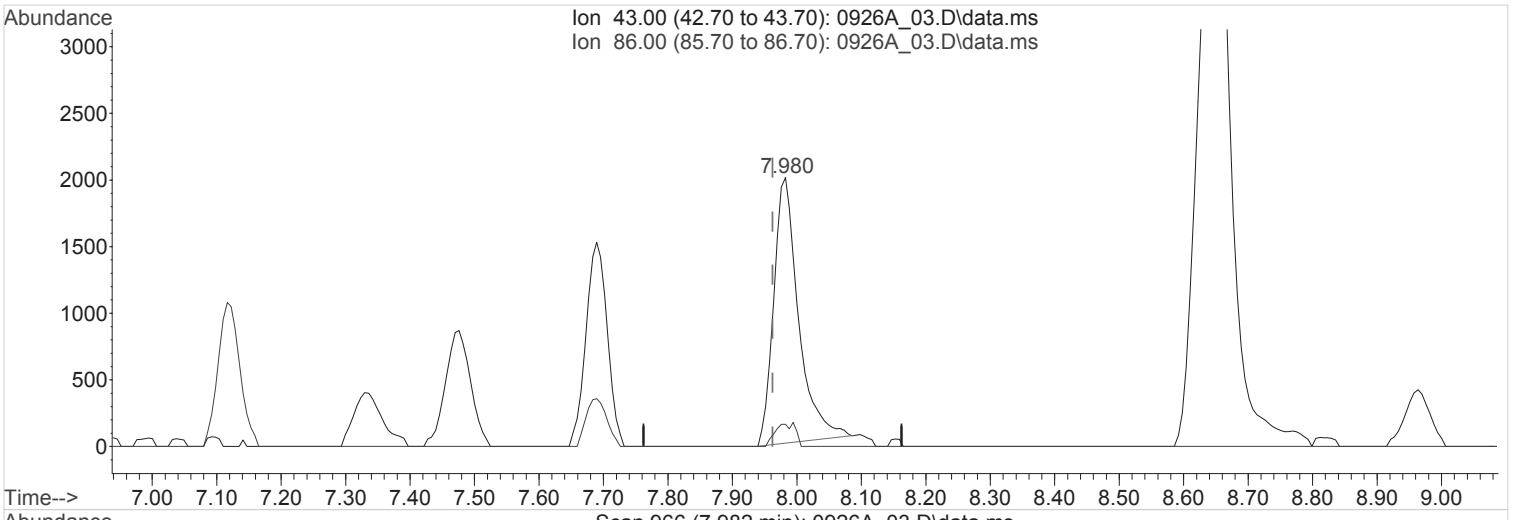
7.427min (+0.003) 0.1492030 ppbv m

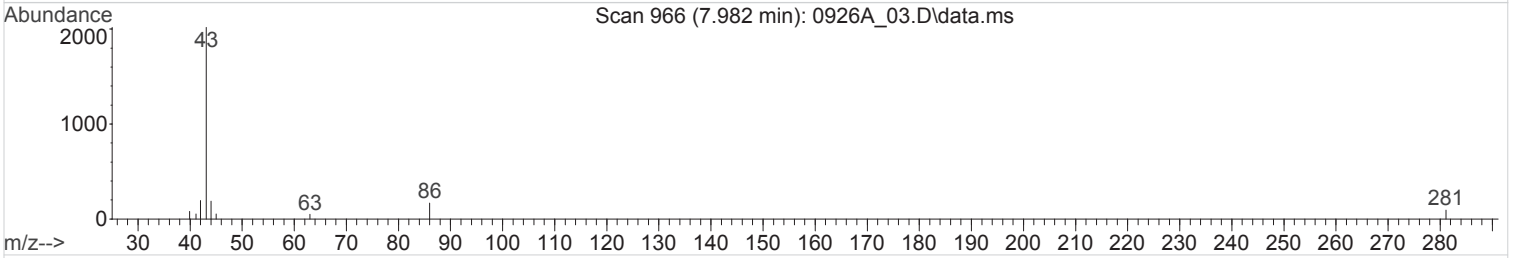
response 32512

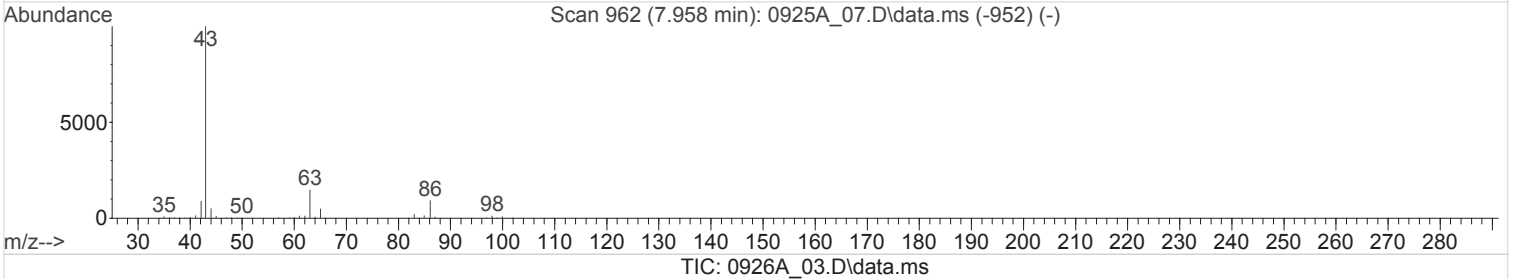
Ion	Exp%	Act%
96.00	100	100
61.00	151.20	0.00#
73.00	305.70	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(27) Vinyl Acetate (T,M)

7.983min (+0.020) 0.1234156 ppbv

Qvalue = 77

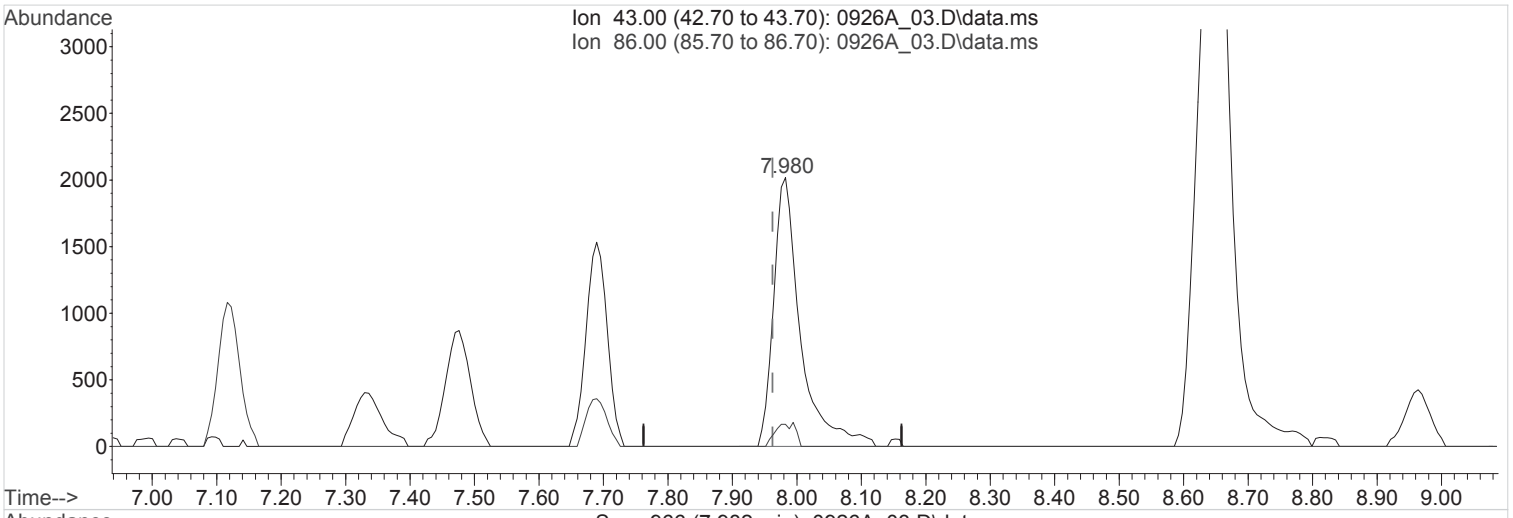
response 53233

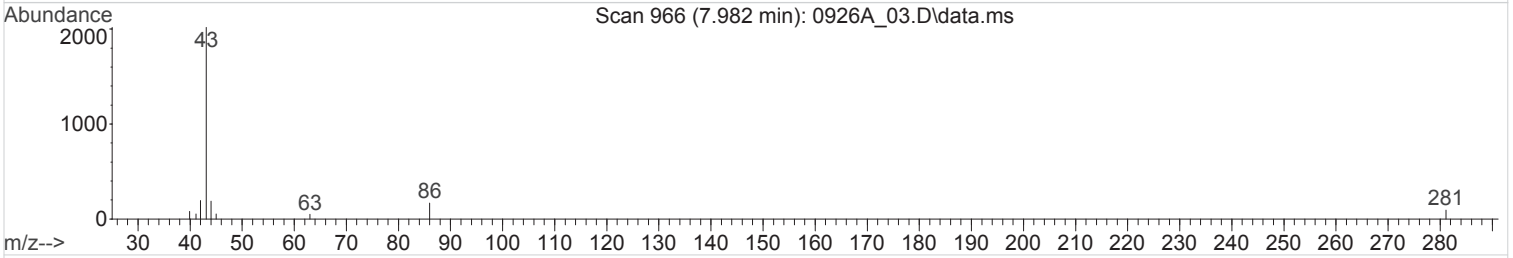
Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

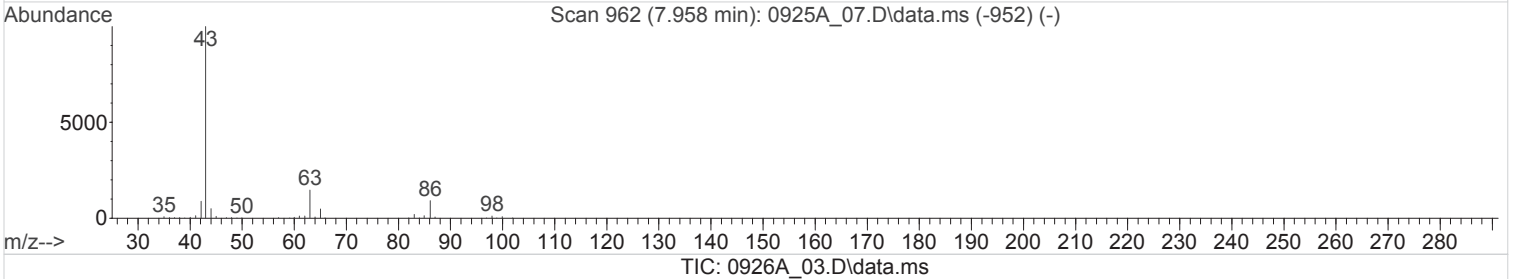
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(27) Vinyl Acetate (T,M)

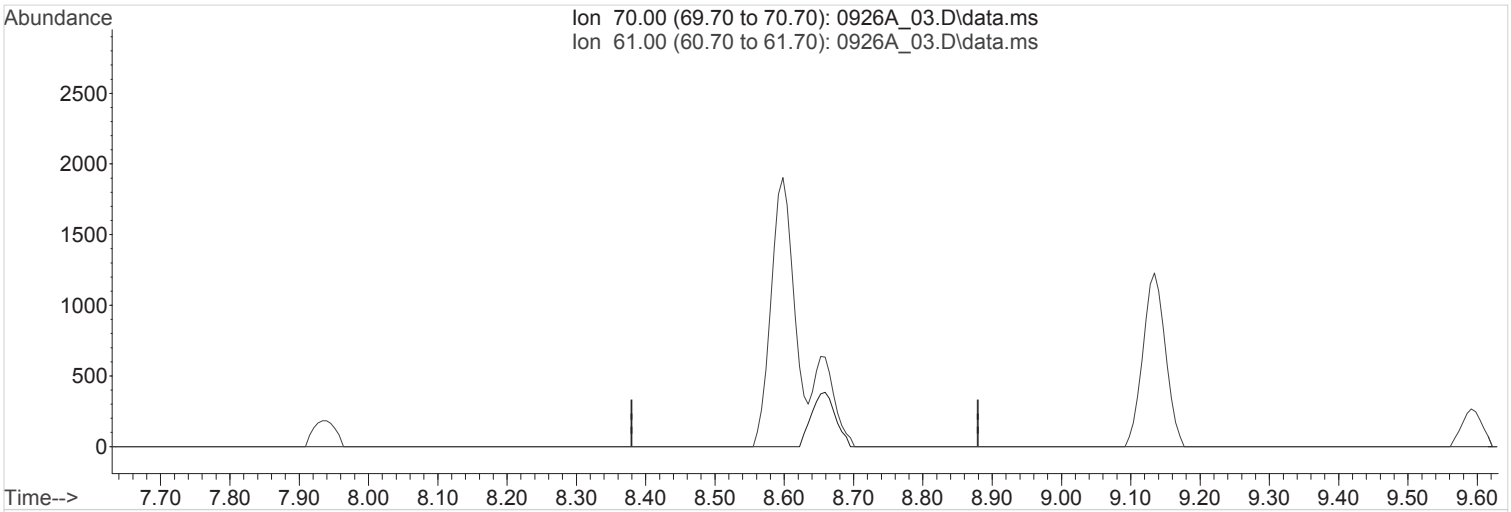
7.982min (+0.020) 0.1355872 ppbv m

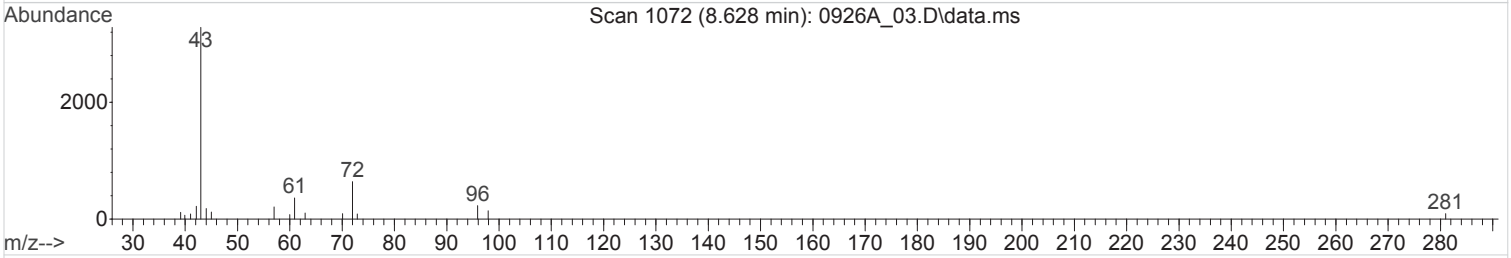
response 58483

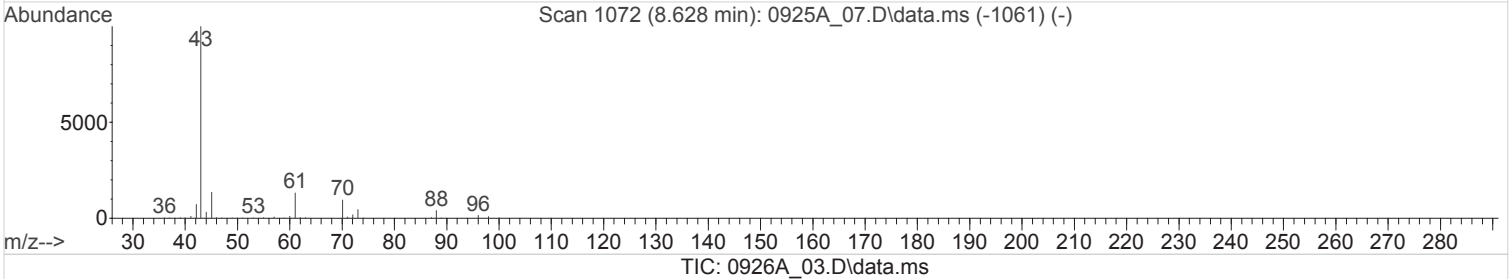
Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

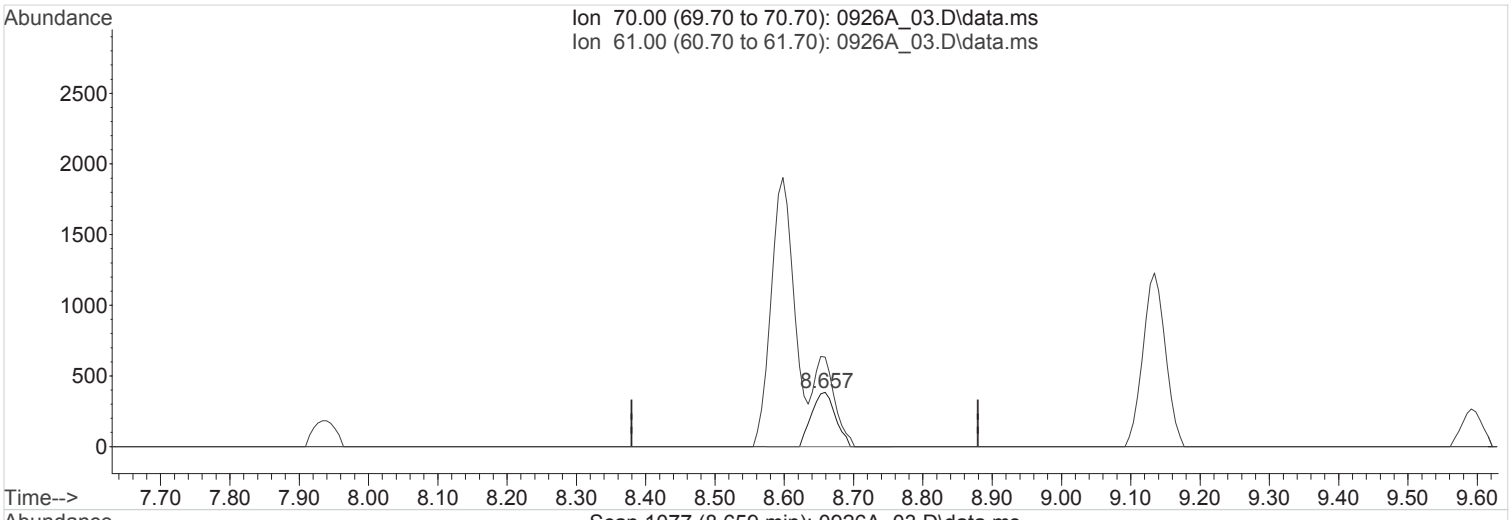
response 0

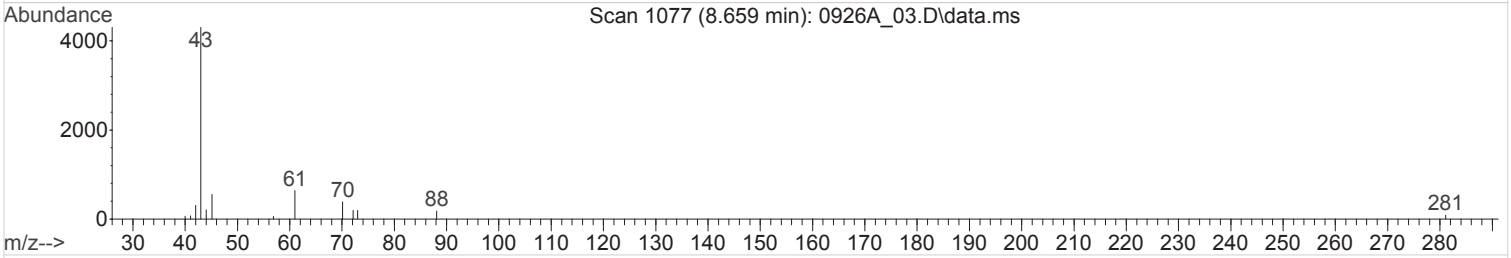
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

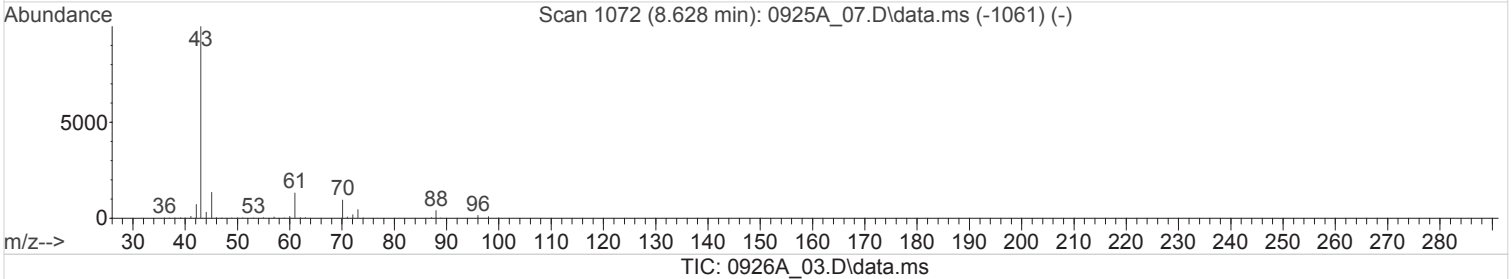
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(28) ETHYL ACETATE

8.659min (+0.029) 0.1331088 ppbv m

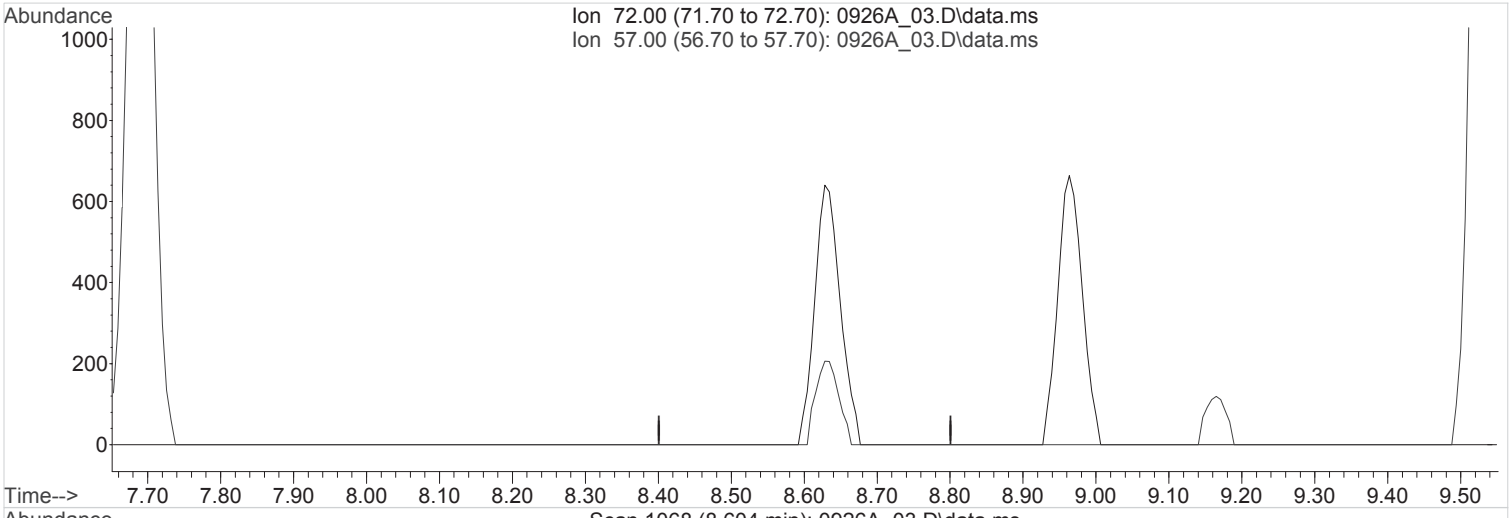
response 9174

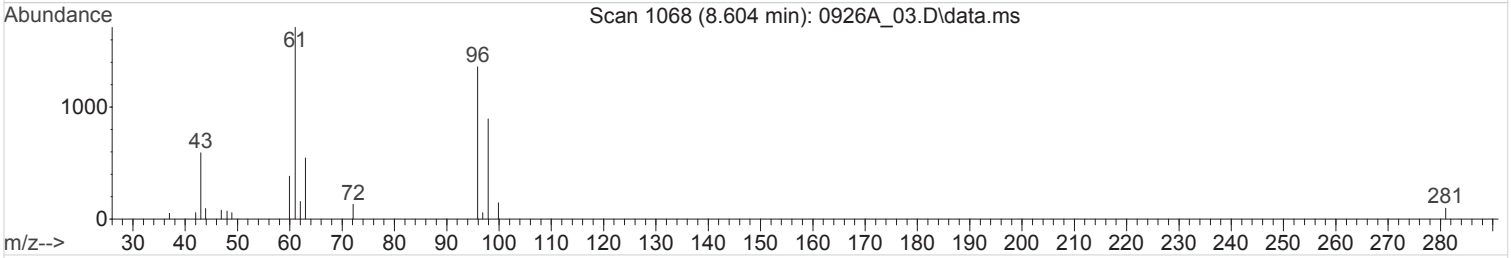
Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

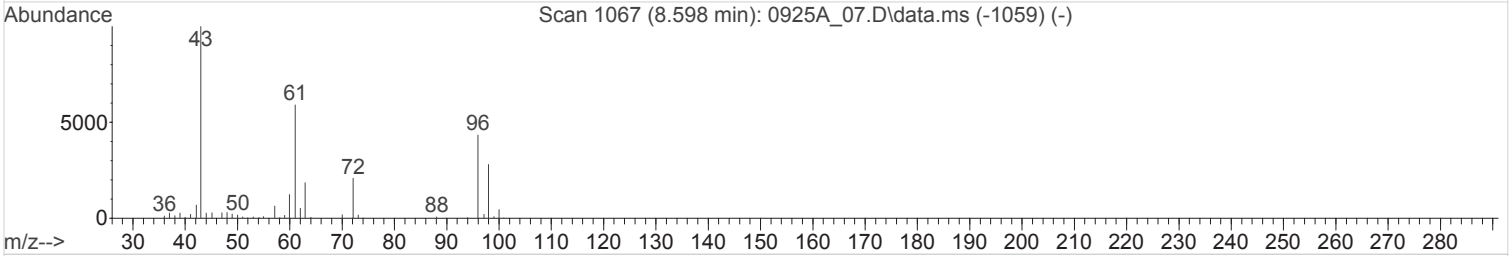
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.601min (-8.601) 0.0000000 ppbv

Qvalue = 0

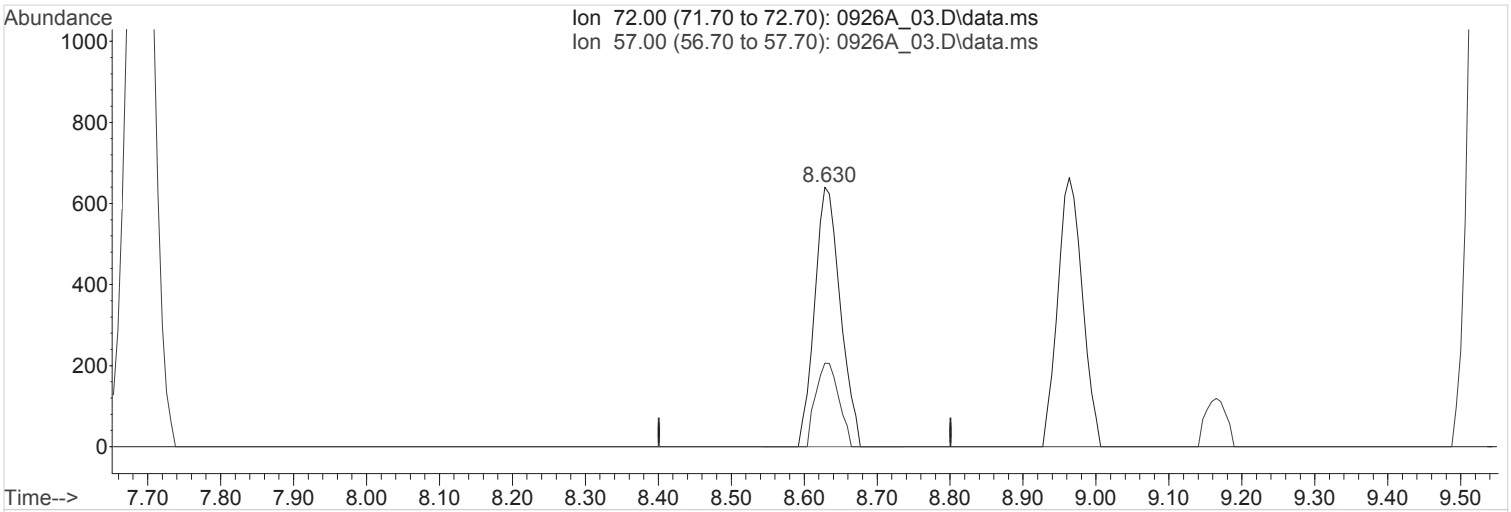
response 0

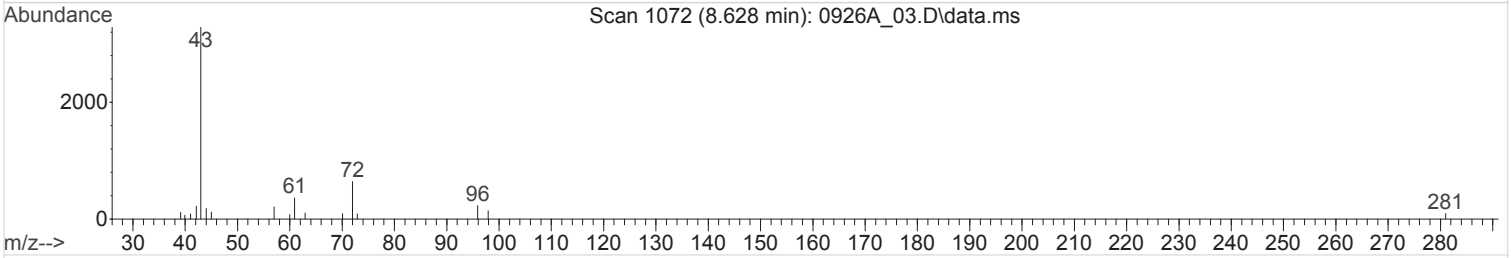
Ion	Exp%	Act%
72.00	100	0.00
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

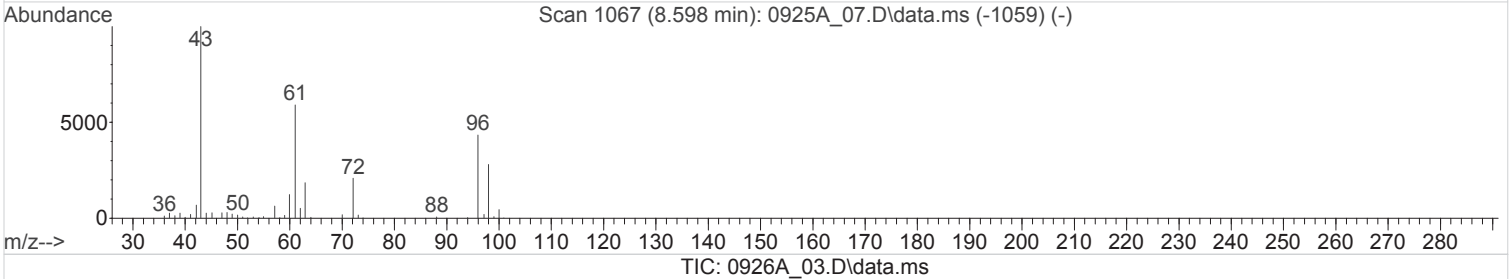
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.628min (+0.027) 0.1347453 ppbv m

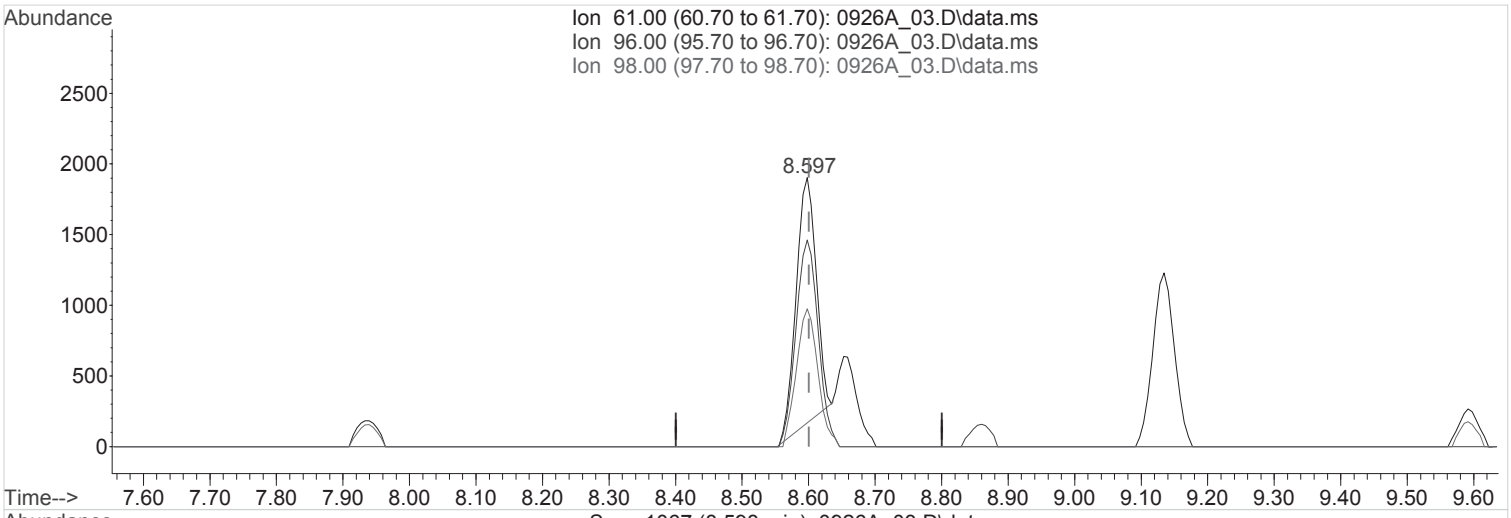
response 15596

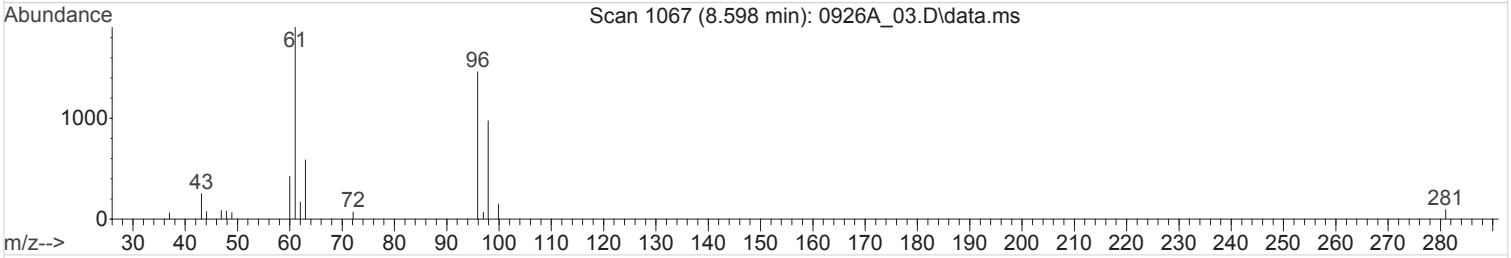
Ion	Exp%	Act%
72.00	100	100
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

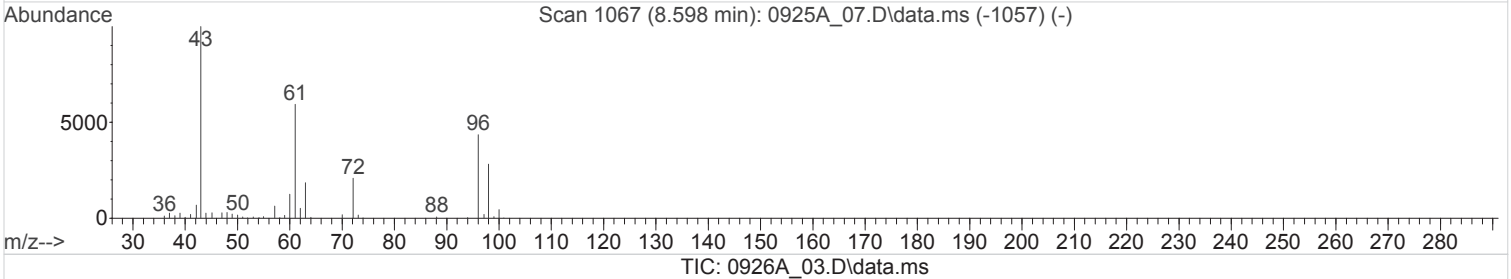
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.600min (-0.001) 0.0848361 ppbv

Qvalue = 42

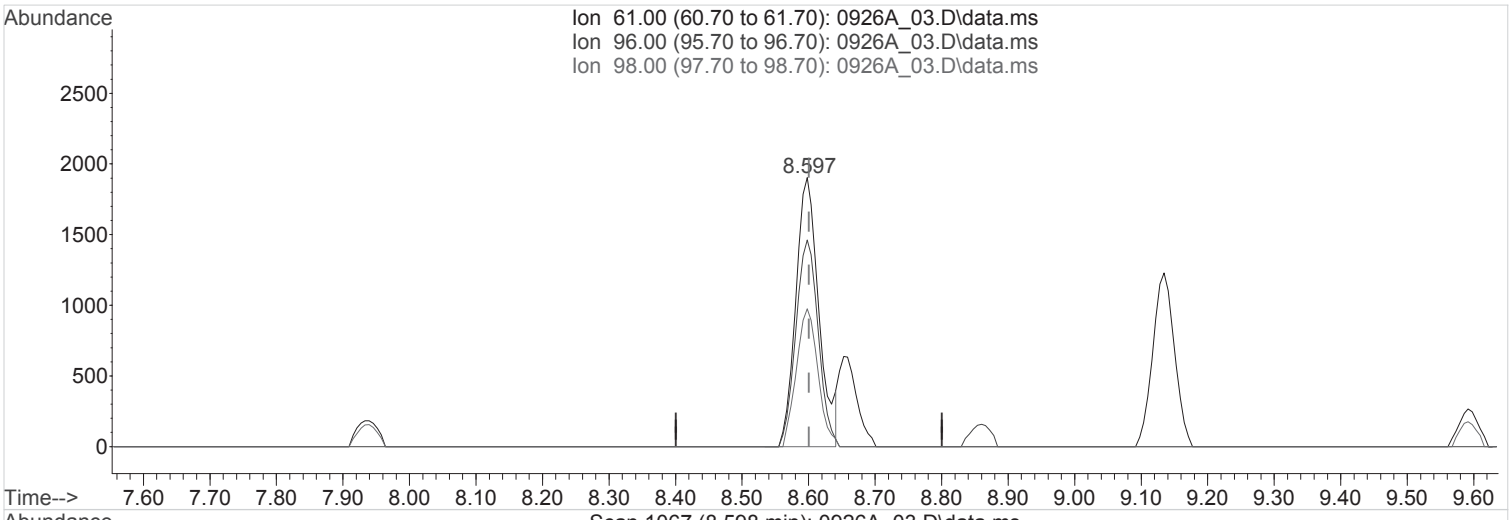
response 35898

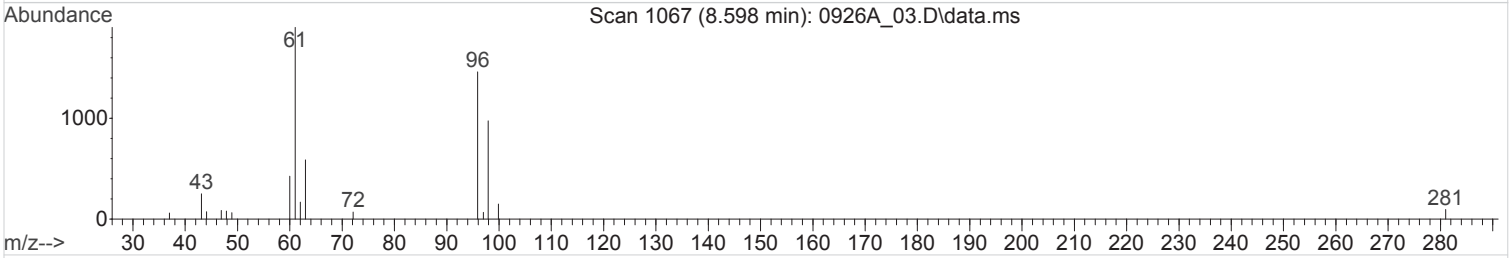
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	95.34#
98.00	34.80	0.00#
0.00	0.00	0.00

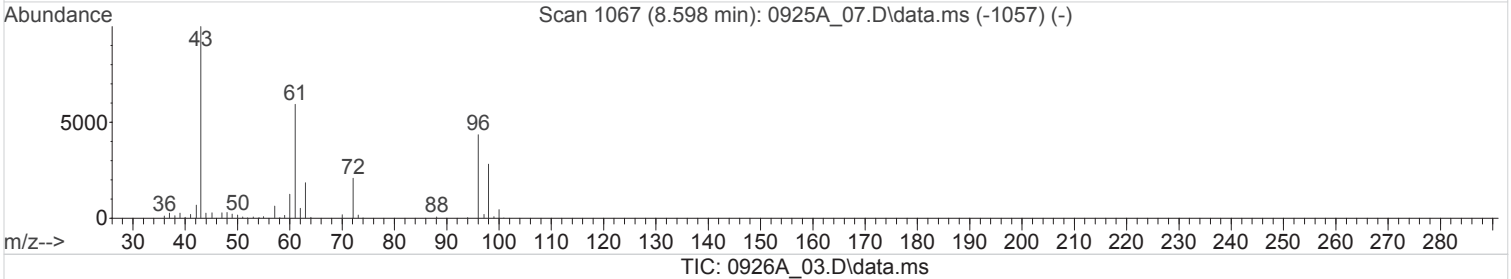
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

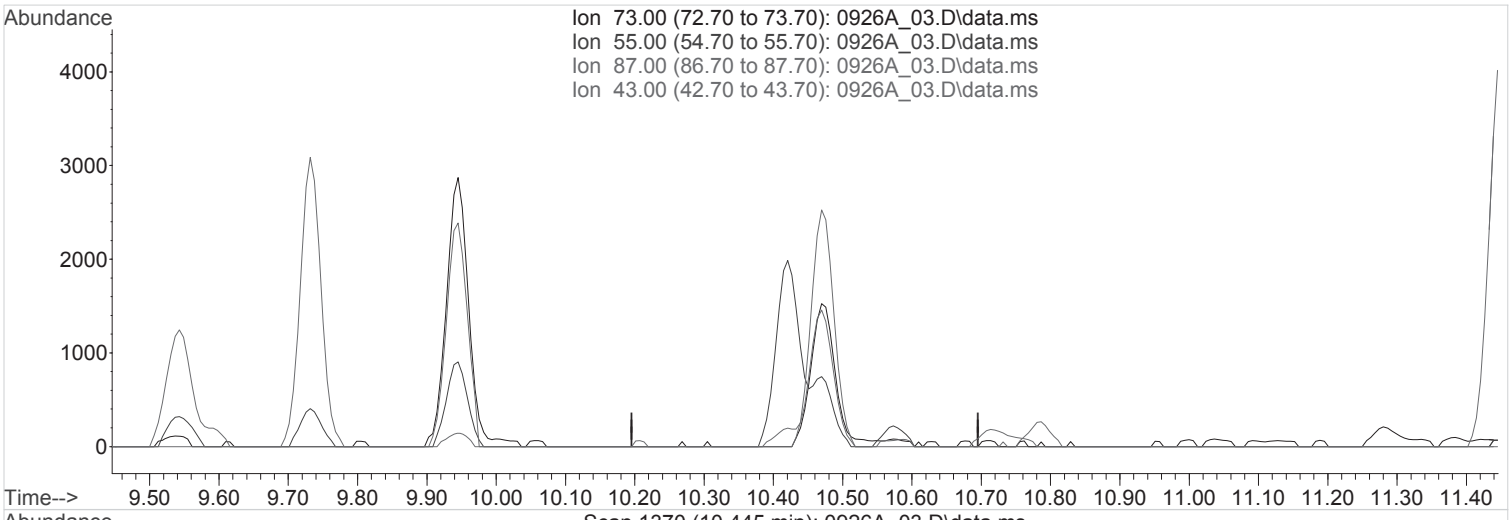
8.598min (-0.003) 0.1103501 ppbv m

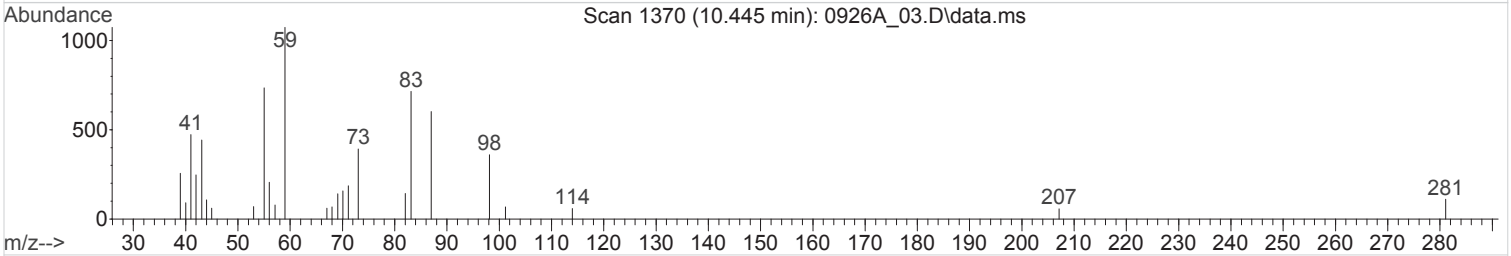
response 46695

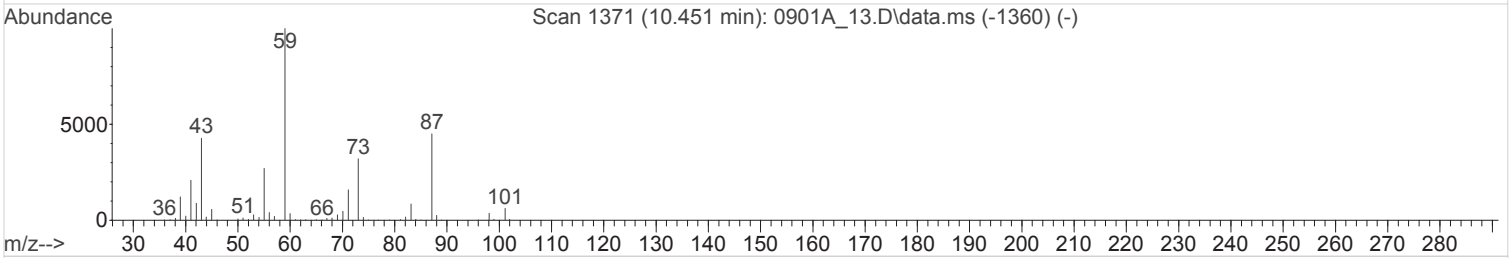
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	73.30#
98.00	34.80	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(42) TERT-AMYL ETHYL ETHER

10.446min (-10.446) 0.0000000 ppbv

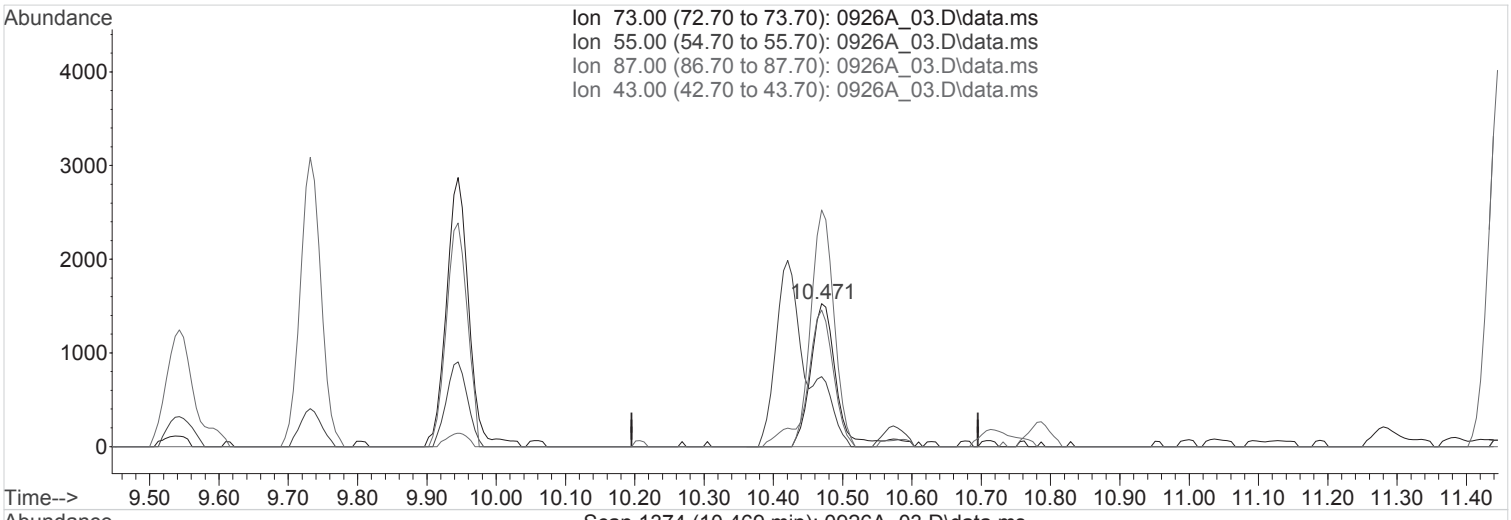
Qvalue = 0

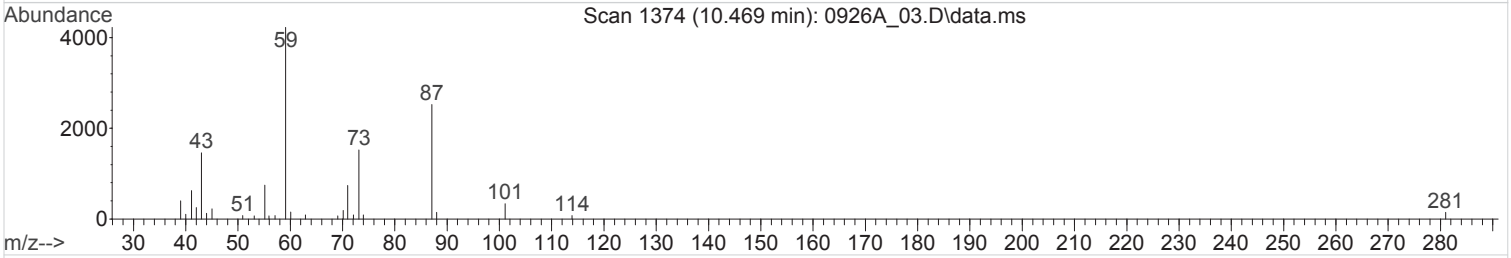
response 0

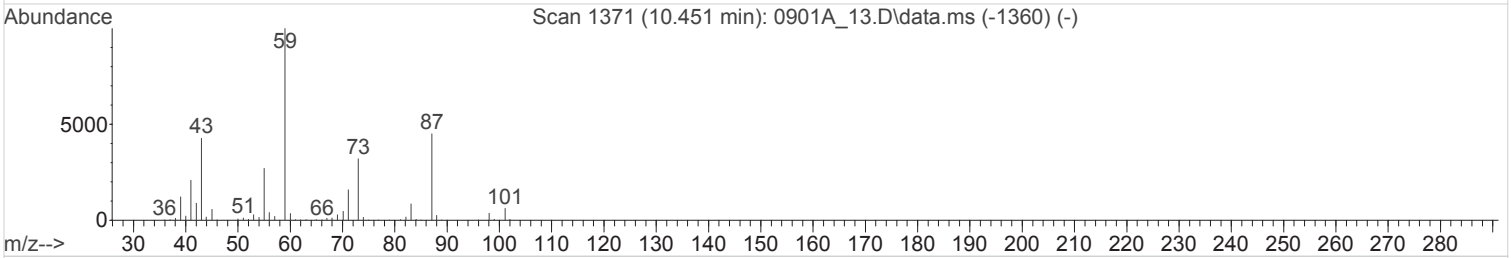
Ion	Exp%	Act%
73.00	100	0.00
55.00	207.10	0.00#
87.00	151.10	0.00#
43.00	111.00	0.00#

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(42) TERT-AMYL ETHYL ETHER

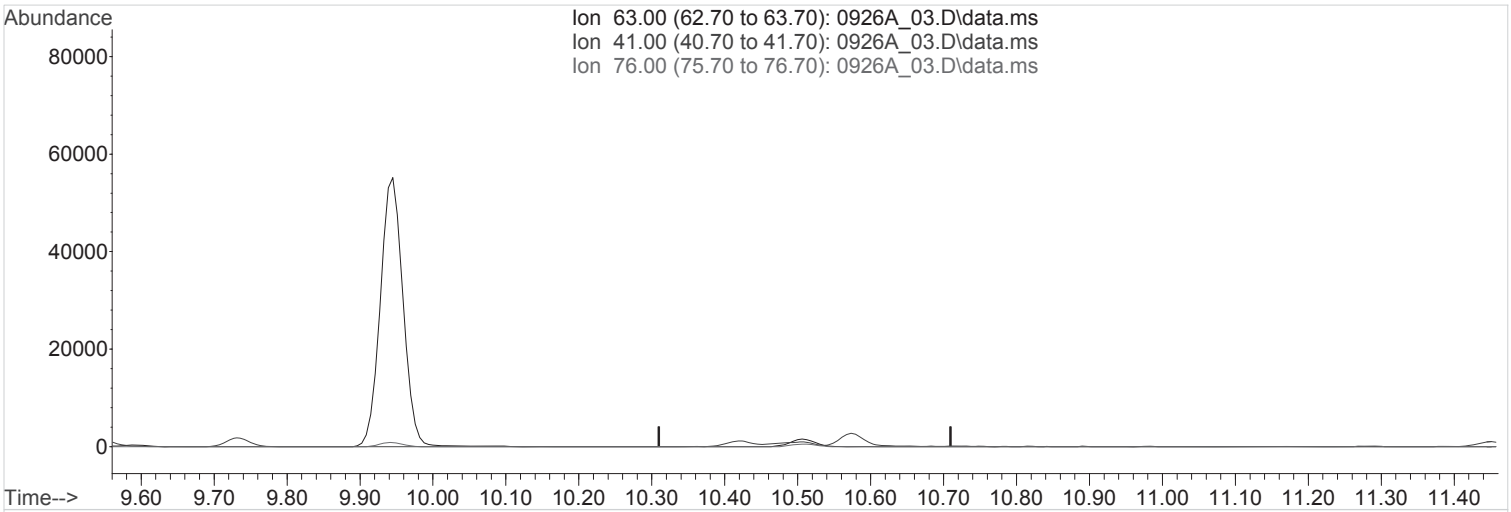
10.469min (+0.024) 0.1724115 ppbv m

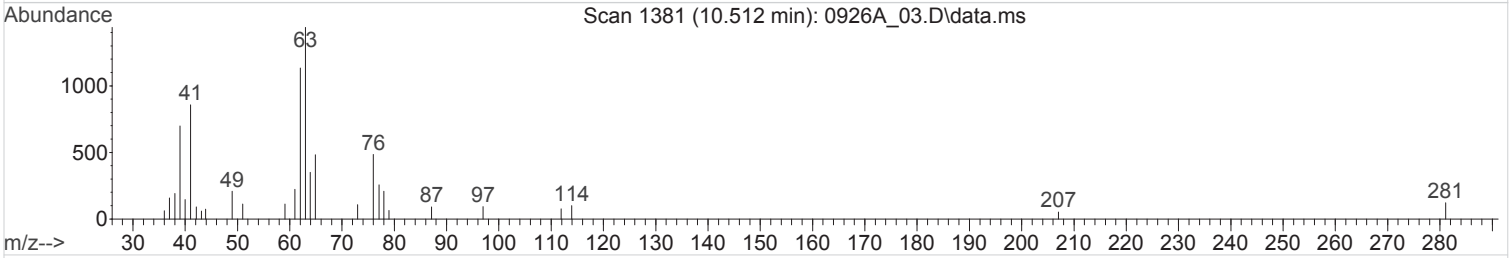
response 39867

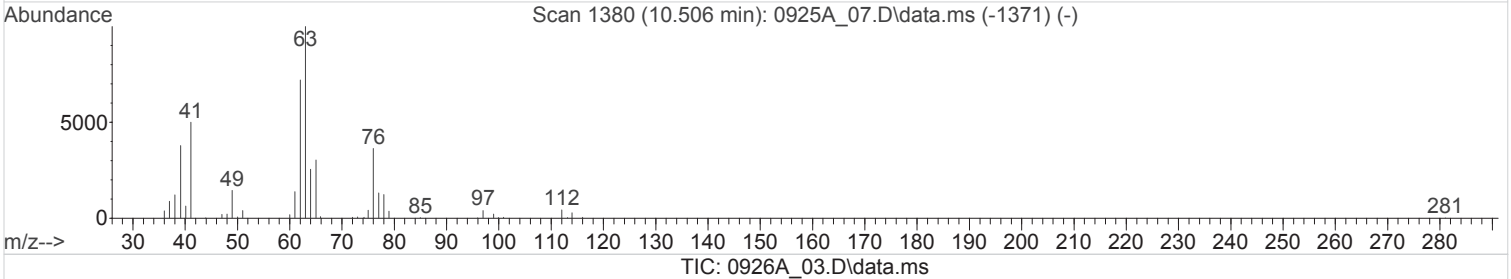
Ion	Exp%	Act%
73.00	100	100
55.00	207.10	0.00#
87.00	151.10	0.00#
43.00	111.00	0.00#

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(44) 1,2-Dichloropropane (T,M)

10.510min (-10.510) 0.0000000 ppbv

Qvalue = 0

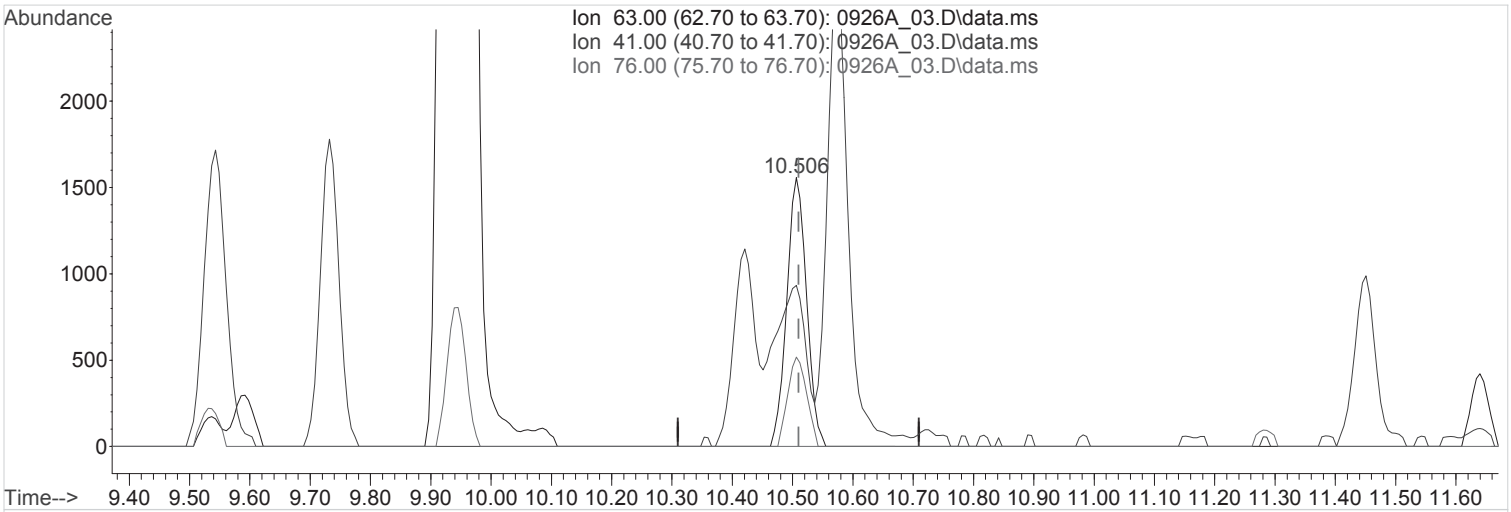
response 0

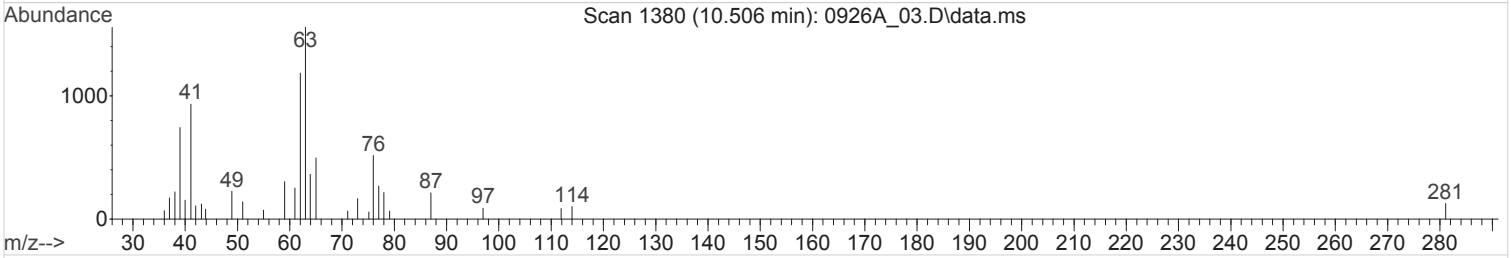
Ion	Exp%	Act%
63.00	100	0.00
41.00	59.00	0.00#
76.00	35.50	0.00#
0.00	0.00	0.00

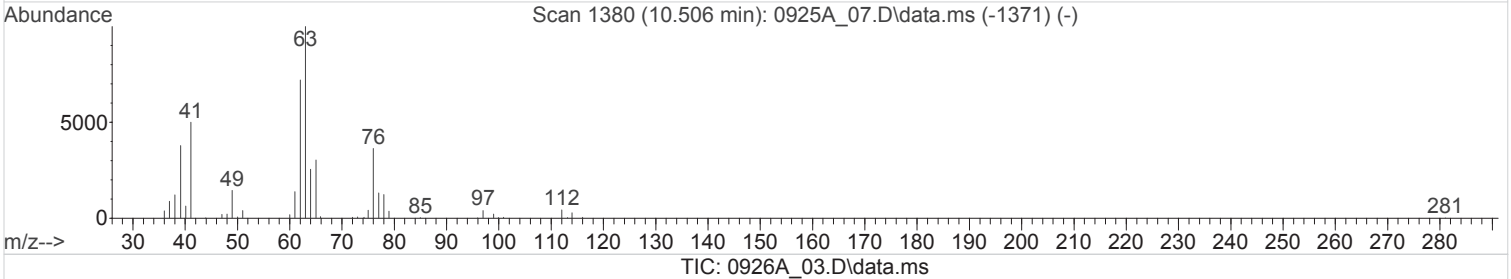
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(44) 1,2-Dichloropropane (T,M)

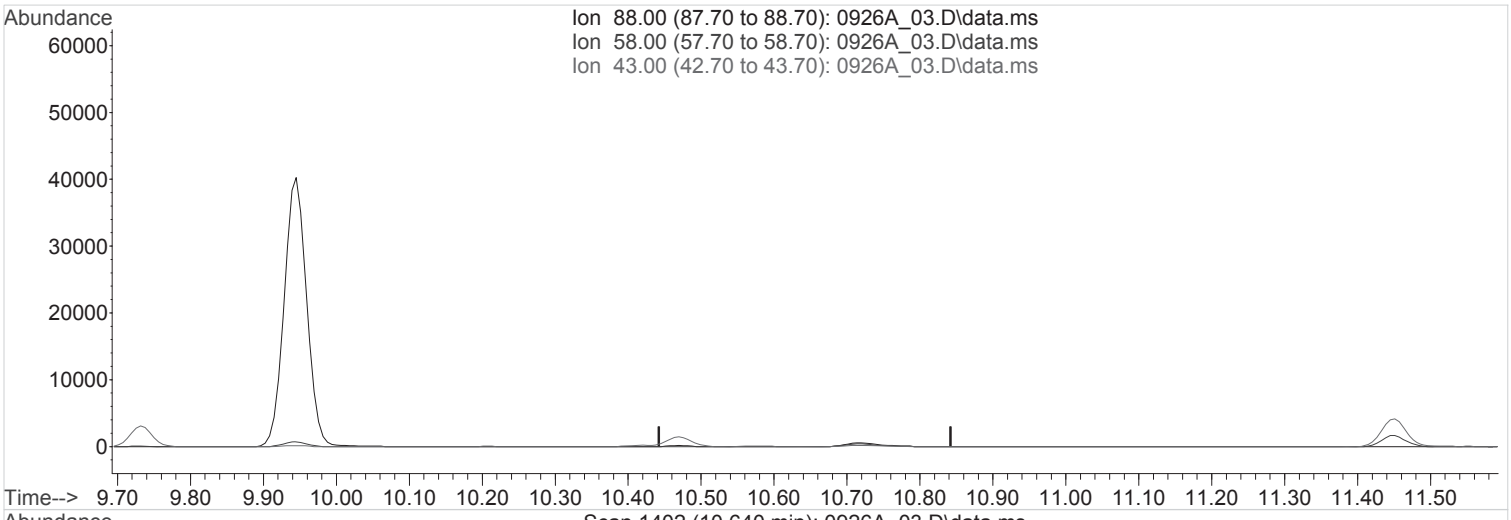
10.506min (-0.004) 0.1254391 ppbv m

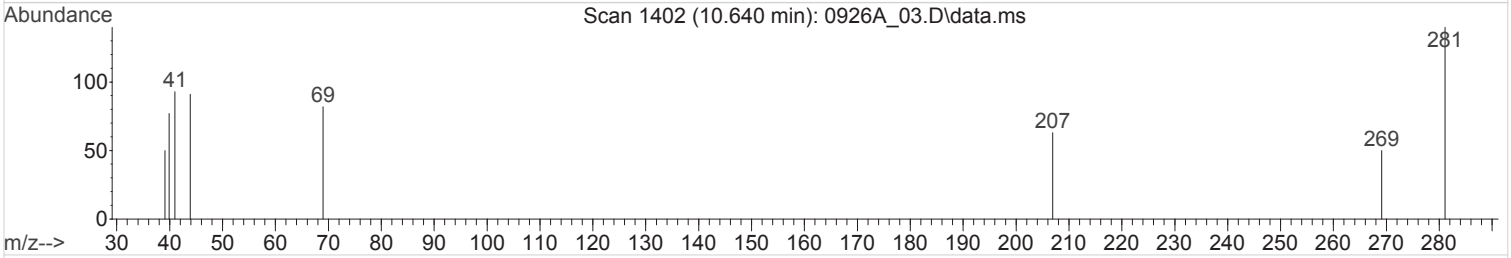
response 35512

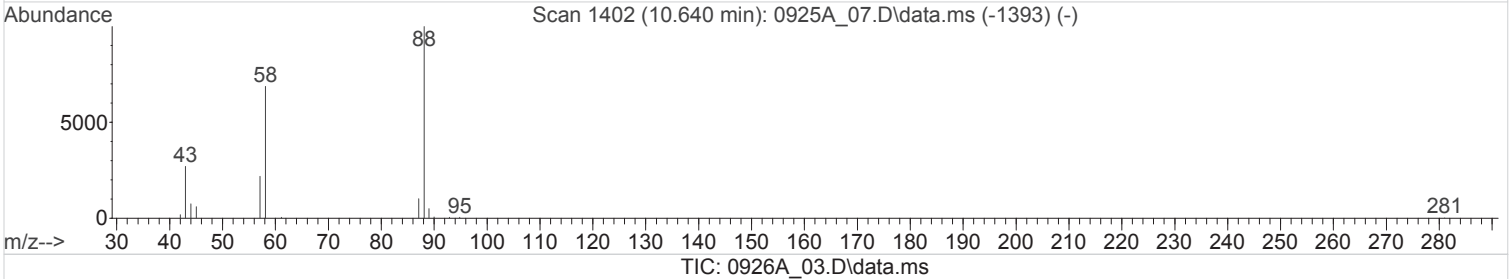
Ion	Exp%	Act%
63.00	100	100
41.00	59.00	0.00#
76.00	35.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(46) 1,4-Dioxane (T,M)

10.642min (-10.642) 0.0000000 ppbv

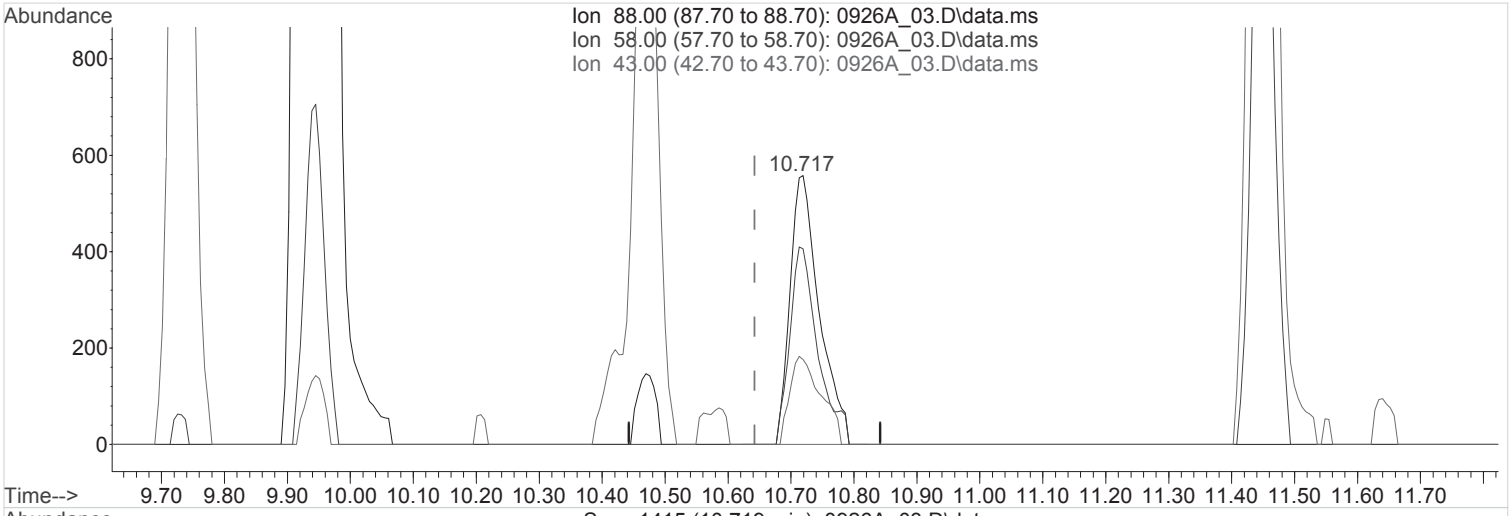
Qvalue = 0

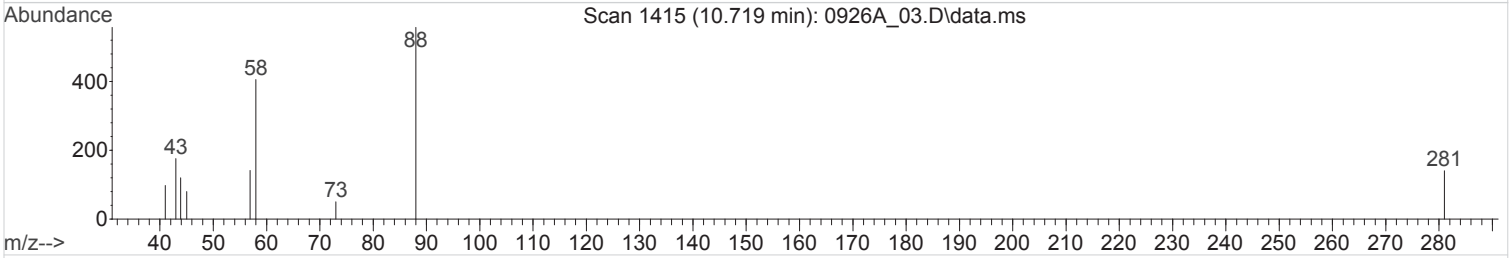
response 0

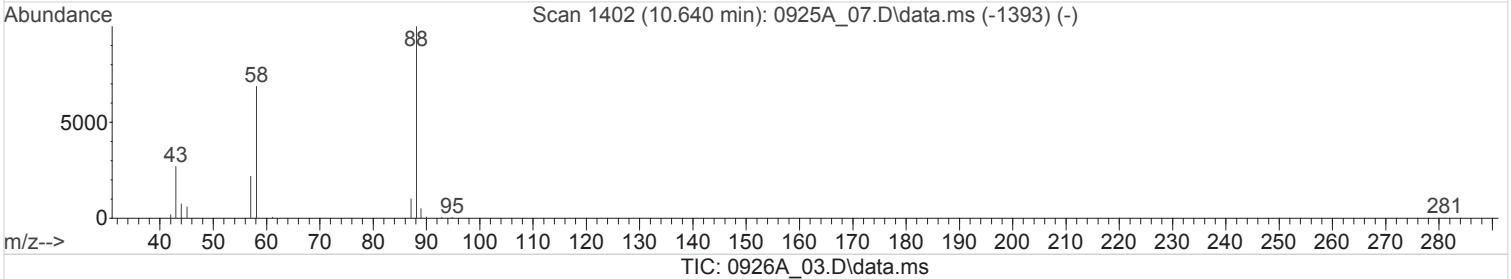
Ion	Exp%	Act%
88.00	100	0.00
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(46) 1,4-Dioxane (T,M)

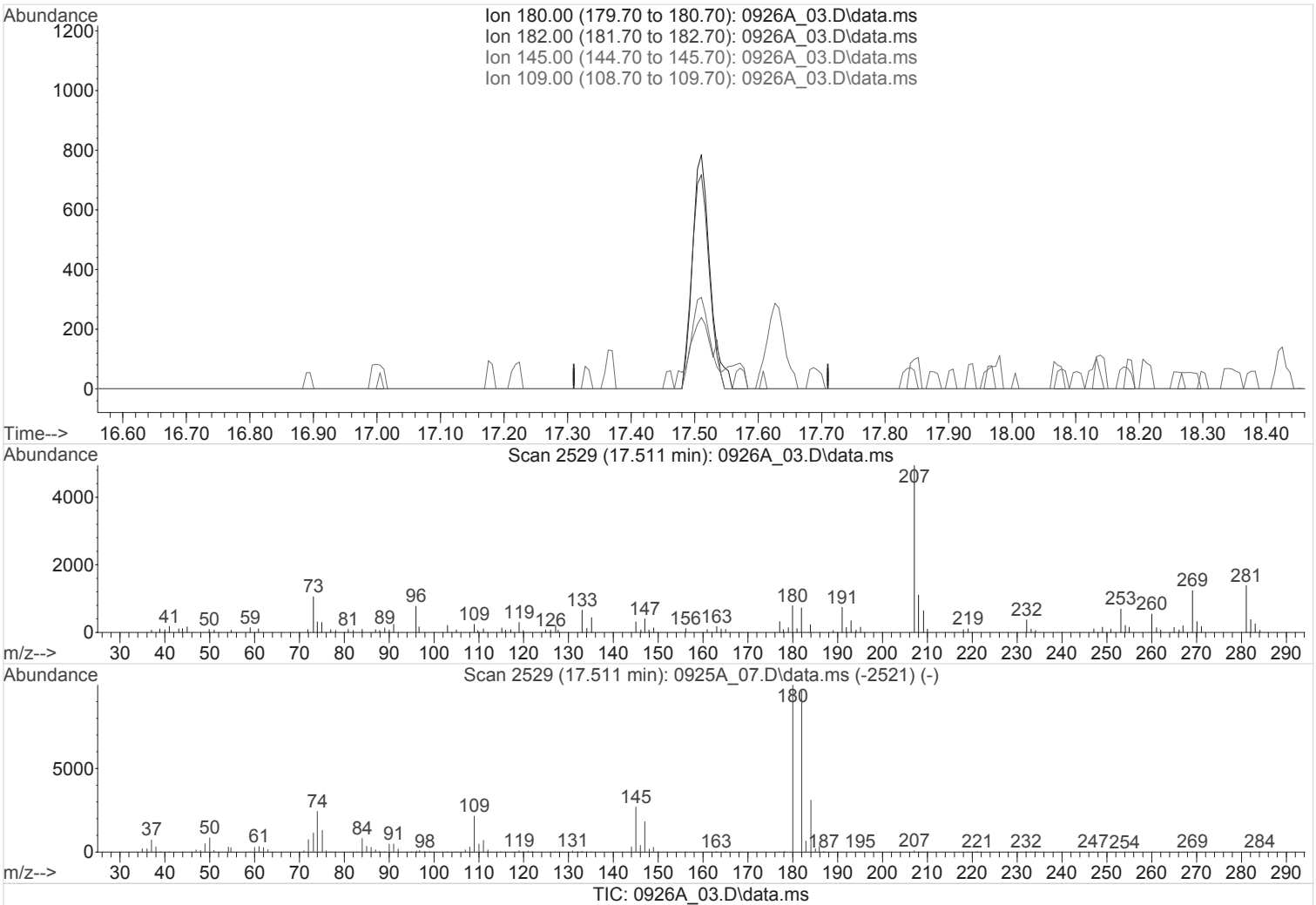
10.719min (+0.077) 0.1378051 ppbv m

response 18034

Ion	Exp%	Act%
88.00	100	100
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.510min (-17.510) 0.0000000 ppbv

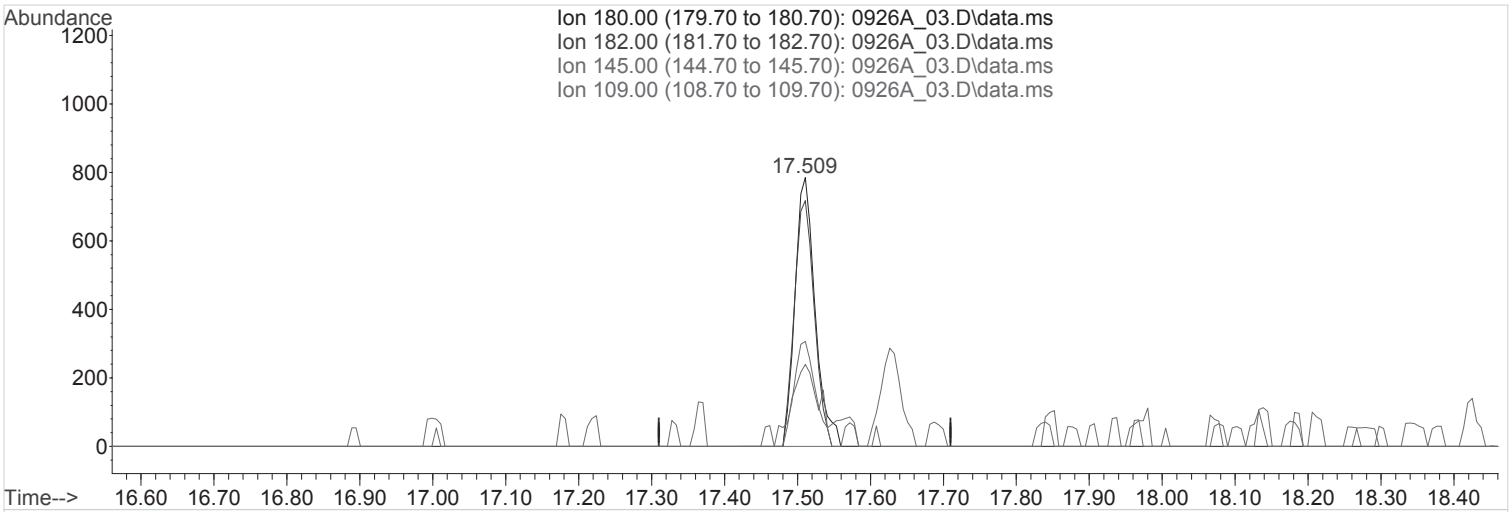
Qvalue = 0

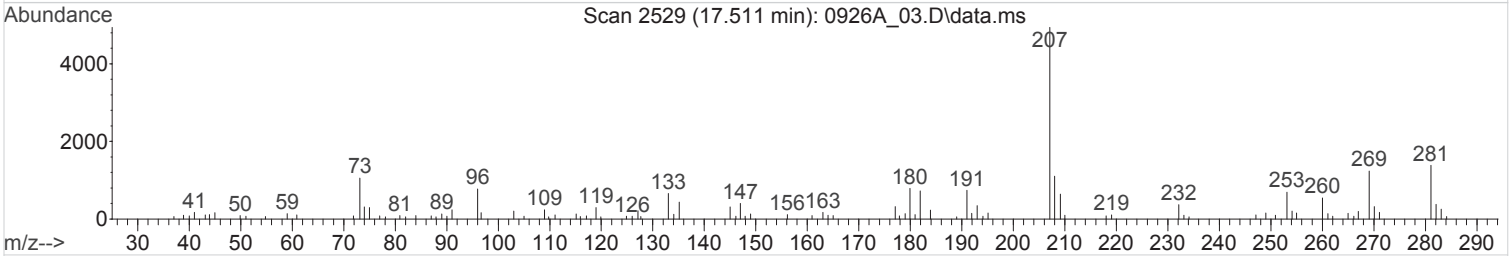
response 0

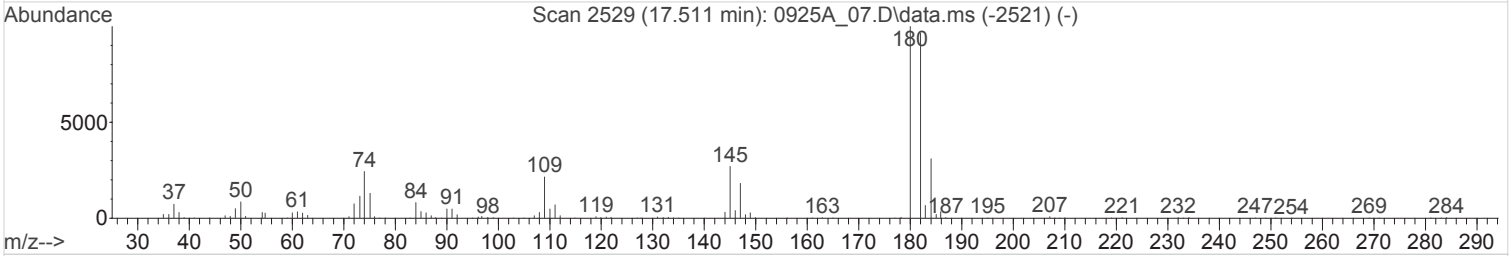
Ion	Exp%	Act%
180.00	100	0.00
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.511min (+0.000) 0.0868374 ppbv m

response 14992

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04A.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : RL AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:48:06 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.865	130	1297713	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	5285157	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3832169	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2199251	3.6939232	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 92.35%				
Target Compounds							Qvalue
2) Propene	4.086	41	54413	0.2437158	ppbv		98
3) 1,1-DIFLUOROETHANE	4.093	65	37524m	0.2641127	ppbv		
4) Dichlorodifluoromethane	4.148	85	121842	0.2839165	ppbv		99
5) CHLORODIFLUOROMETHANE	4.184	67	13230m	0.2566067	ppbv		
6) 1,2-Dichlorotetrafluor...	4.384	85	134712	0.2536537	ppbv		96
7) Chloromethane	4.487	50	56793	0.2510705	ppbv	#	43
8) Vinyl Chloride	4.684	62	59235	0.2443834	ppbv	#	43
9) 1,3-Butadiene	4.749	39	46557	0.2267470	ppbv		94
10) Bromomethane	5.244	94	48644	0.2639415	ppbv		97
11) Chloroethane	5.403	64	29904m	0.2379450	ppbv		
12) Vinyl Bromide	5.677	106	47577	0.2609581	ppbv		98
13) Trichlorofluoromethane	5.757	101	105927	0.2557230	ppbv		99
14) Ethanol	6.129	45	7206m	0.1926092	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.455	101	99928	0.2596230	ppbv		99
16) 1,1-Dichloroethene	6.481	61	87402	0.2513213	ppbv		95
17) Acetone	6.617	43	166751	0.2497079	ppbv		98
18) 2-Propanol	6.812	45	108104	0.2396683	ppbv	#	74
19) Carbon Disulfide	6.775	76	153834	0.2658573	ppbv		95
20) Allyl Chloride	6.950	41	77608	0.2425488	ppbv	#	45
21) Methylene Chloride	7.118	49	79901	0.2912648	ppbv		94
22) TERT-BUTYL ALCOHOL	7.317	59	138526	0.2767789	ppbv		95
23) Methyl Tert-Butyl Ether	7.467	73	171953	0.2834834	ppbv		99
24) Trans-1,2-Dichloroethene	7.425	96	56966	0.2878499	ppbv		98
25) n-Hexane	7.691	57	97521	0.2762771	ppbv		98
26) 1,1-Dichloroethane	7.938	63	108078	0.2798660	ppbv	#	69
27) Vinyl Acetate	7.979	43	100118	0.2550261	ppbv	#	77
28) ETHYL ACETATE	8.653	70	15107m	0.2435972	ppbv		
29) 2-Butanone (MEK)	8.622	72	27366m	0.2646070	ppbv		
30) cis-1,2-Dichloroethene	8.598	61	86668m	0.2392112	ppbv		
31) Tetrahydrofuran	8.955	42	82221	0.2806027	ppbv		96
32) Chloroform	8.923	83	111257	0.2825068	ppbv		99
33) Cyclohexane	9.169	84	81305	0.2743662	ppbv		97
34) 1,1,1-Trichloroethane	9.138	97	102867	0.2776001	ppbv		98
35) Carbon Tetrachloride	9.303	117	92118	0.2645257	ppbv		98
36) 2,2,4-Trimethylpentane	9.545	57	328922	0.2788478	ppbv	#	89
38) Benzene	9.536	78	190536	0.2765611	ppbv		94
39) 1,2-Dichloroethane	9.591	62	77592	0.2769212	ppbv	#	42
40) Heptane	9.735	43	131346	0.2760813	ppbv	#	64
41) Trichloroethene	10.240	95	75657	0.2819135	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.466	73	66808	0.3081732	ppbv		92
43) METHYL CYCLOHEXANE	10.424	83	106774	0.2807571	ppbv	#	91
44) 1,2-Dichloropropane	10.509	63	73434	0.2884053	ppbv	#	28
45) Methyl Methacrylate	10.575	69	74885	0.3015822	ppbv		97
46) 1,4-Dioxane	10.695	88	32552m	0.2710297	ppbv		
47) Bromodichloromethane	10.785	83	112256	0.2642873	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04A.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : RL AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

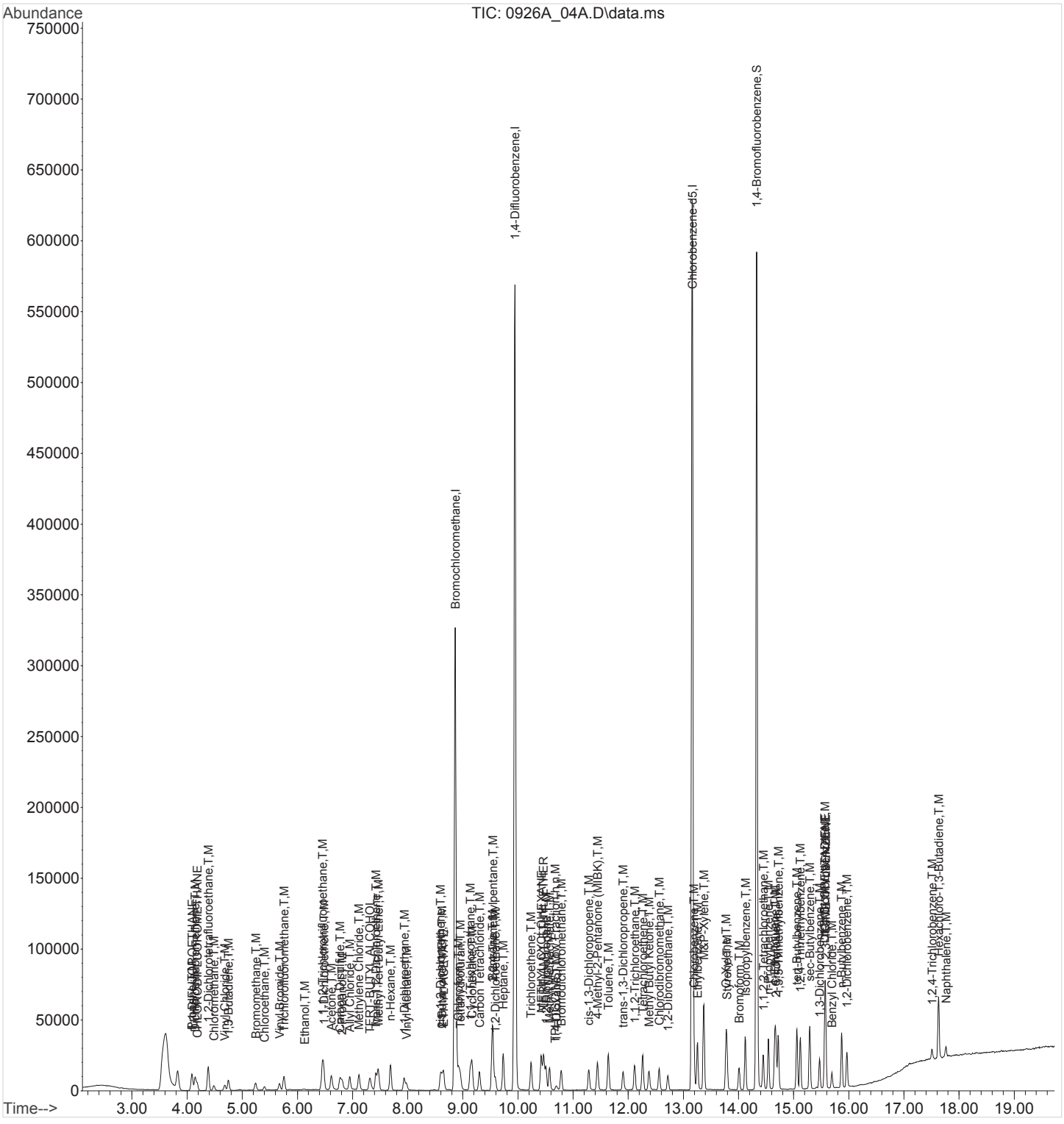
Quant Time: Sep 27 08:48:06 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	99879	0.2579480	ppbv	100
49) 4-Methyl-2-Pentanone (...	11.443	43	182922	0.2969704	ppbv #	90
50) Toluene	11.641	91	225135	0.2739703	ppbv	99
51) trans-1,3-Dichloropropene	11.909	75	82094	0.2617811	ppbv	98
52) 1,1,2-Trichloroethane	12.119	97	66287	0.2650751	ppbv	99
53) Tetrachloroethene	12.265	166	94551	0.2726648	ppbv	99
54) Methyl Butyl Ketone	12.378	43	124369	0.2644429	ppbv #	94
55) Chlorodibromomethane	12.564	129	97295	0.2526569	ppbv	99
56) 1,2-Dibromoethane	12.721	107	86222	0.2574433	ppbv	100
57) Chlorobenzene	13.193	112	139265	0.2650582	ppbv #	69
59) Ethylbenzene	13.257	91	257538	0.2789814	ppbv	99
60) M&P-Xylene	13.372	91	387012	0.5547361	ppbv	99
61) O-Xylene	13.776	91	199415	0.2807198	ppbv	98
62) Styrene	13.793	104	130217	0.2548450	ppbv	96
63) Bromoform	14.012	173	81726	0.2438073	ppbv	98
64) Isopropylbenzene	14.125	105	281602	0.2884269	ppbv #	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	141963	0.2800531	ppbv	100
66) n-Propylbenzene	14.544	91	313437	0.2705333	ppbv	99
67) 4-Ethyltoluene	14.660	105	248181	0.2627214	ppbv	99
68) 2-Chlorotoluene	14.680	91	246755	0.2807905	ppbv	98
70) 1,3,5-Trimethylbenzene	14.722	105	231637	0.2905884	ppbv	99
71) tert-Butylbenzene	15.061	119	227026	0.2944873	ppbv	97
72) 1,2,4-Trimethylbenzene	15.123	105	227190	0.2887873	ppbv	97
73) sec-Butylbenzene	15.293	105	367304	0.3016839	ppbv	98
74) 1,3-Dichlorobenzene	15.473	146	98052	0.2261568	ppbv #	90
75) 1,4-Dichlorobenzene	15.570	146	87737	0.2125781	ppbv #	84
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	237706	0.2977897	ppbv	99
77) DICYCLOPENTADIENE	15.569	66	326559	0.2903482	ppbv	99
78) Benzyl Chloride	15.696	91	94205	0.2051745	ppbv	100
79) n-Butylbenzene	15.873	91	247692	0.2766389	ppbv	99
80) 1,2-Dichlorobenzene	15.969	146	115794	0.2623488	ppbv	100
81) 1,2,4-Trichlorobenzene	17.511	180	23573m	0.1394703	ppbv	
82) Hexachloro-1,3-Butadiene	17.632	225	94407	0.3270006	ppbv	99
83) Naphthalene	17.764	128	62597	0.1491691	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	23460856m	14.2968935	ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04A.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : RL AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

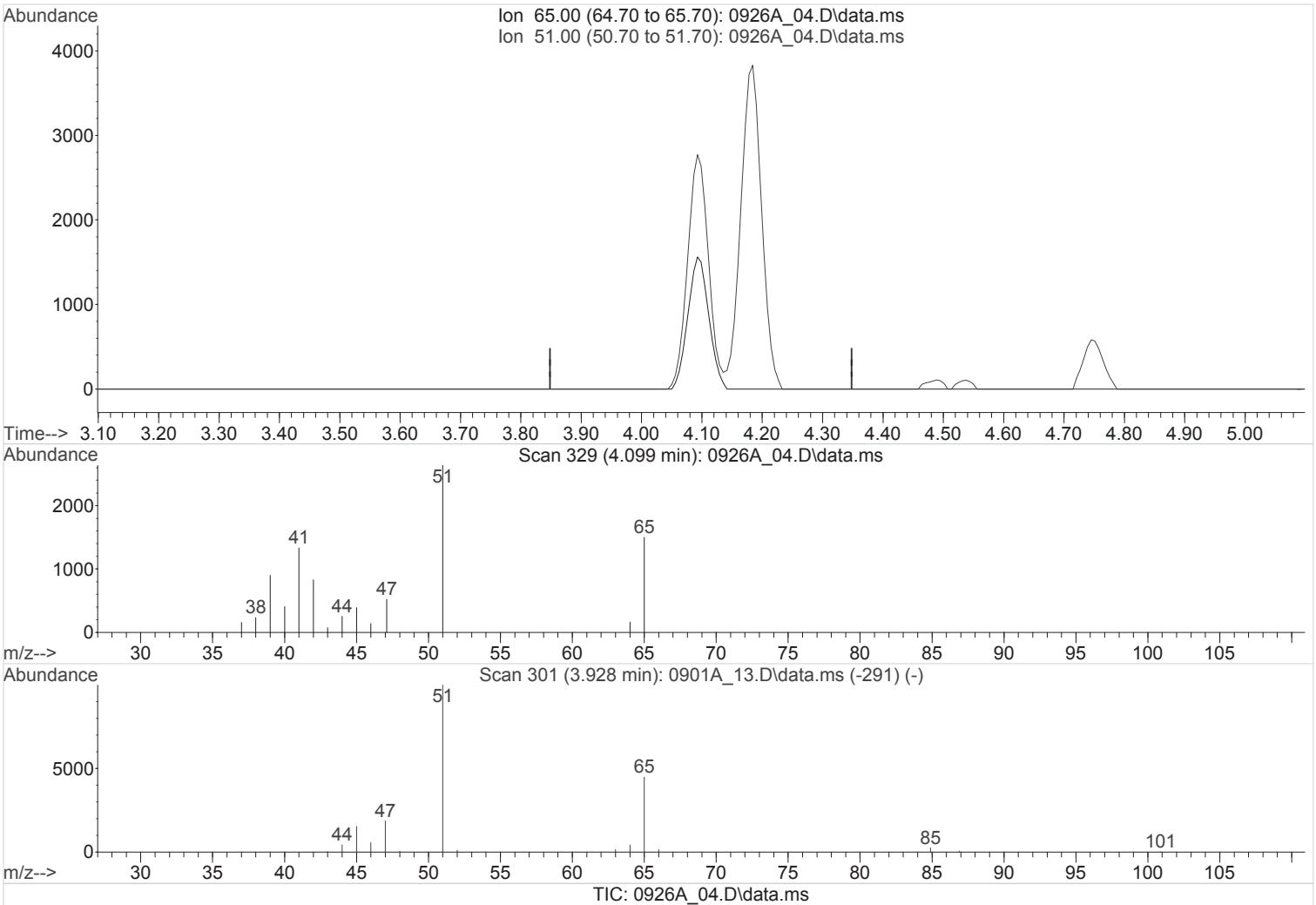
Quant Time: Sep 27 08:48:06 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.099min (-4.099) 0.0000000 ppbv

Qvalue = 0

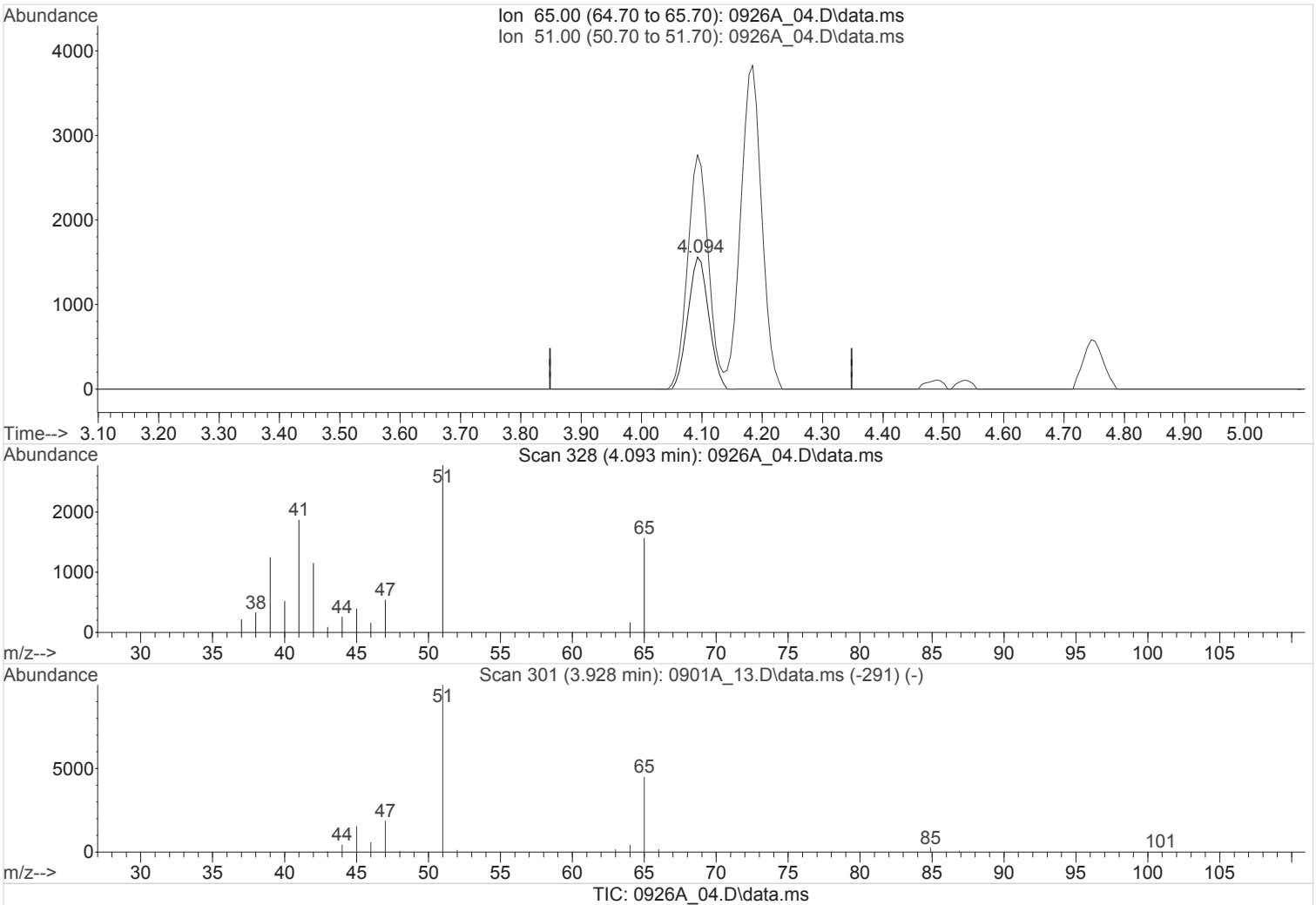
response 0

Ion	Exp%	Act%
65.00	100	0.00
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.093min (-0.006) 0.3045783 ppbv m

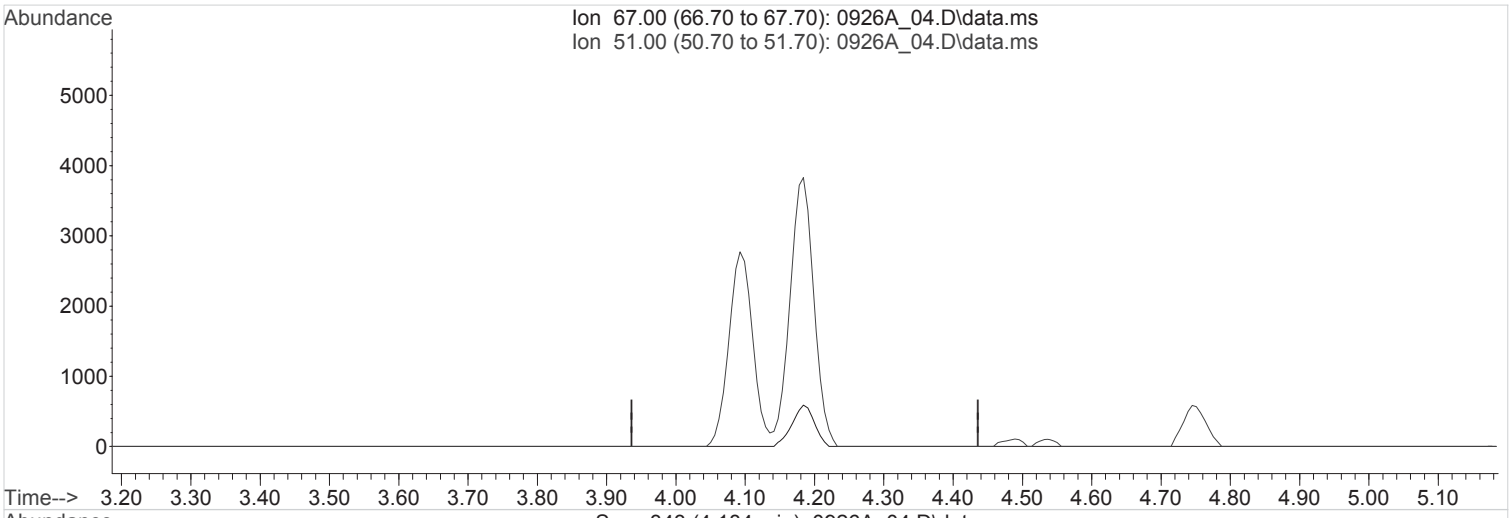
response 37524

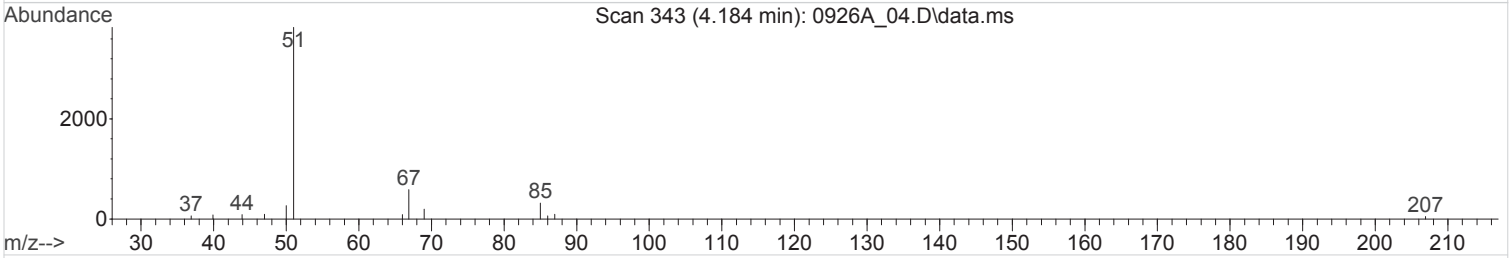
Ion	Exp%	Act%
65.00	100	100
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

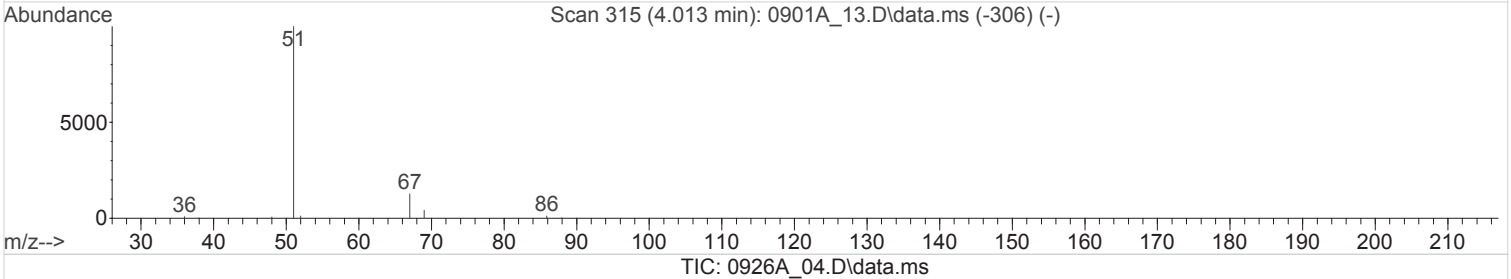
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

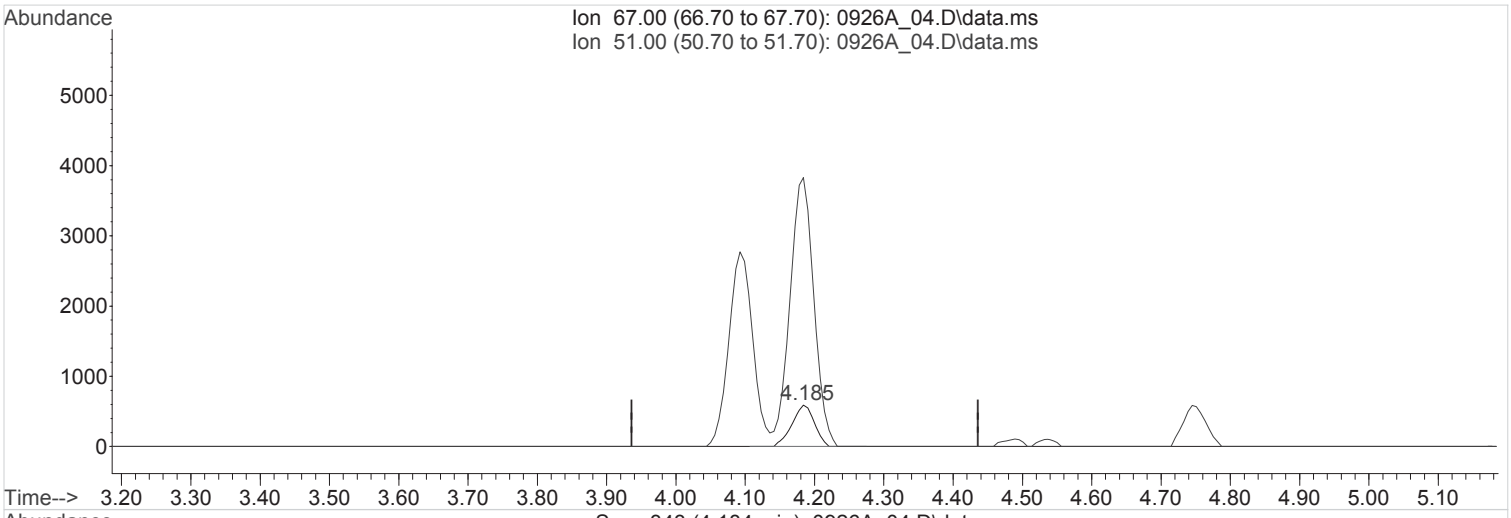
Qvalue = 0

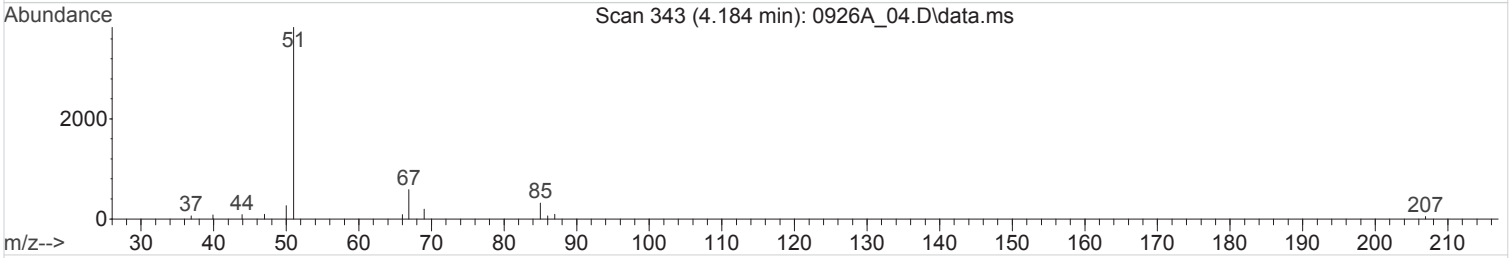
response 0

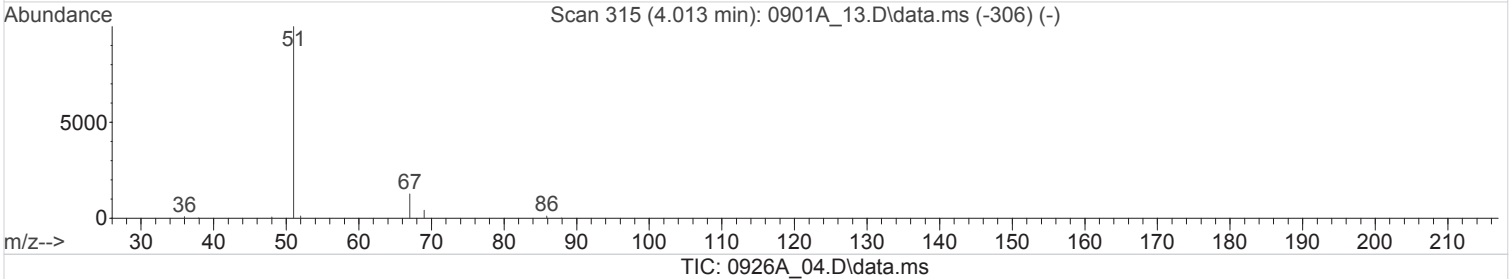
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(5) CHLORODIFLUOROMETHANE

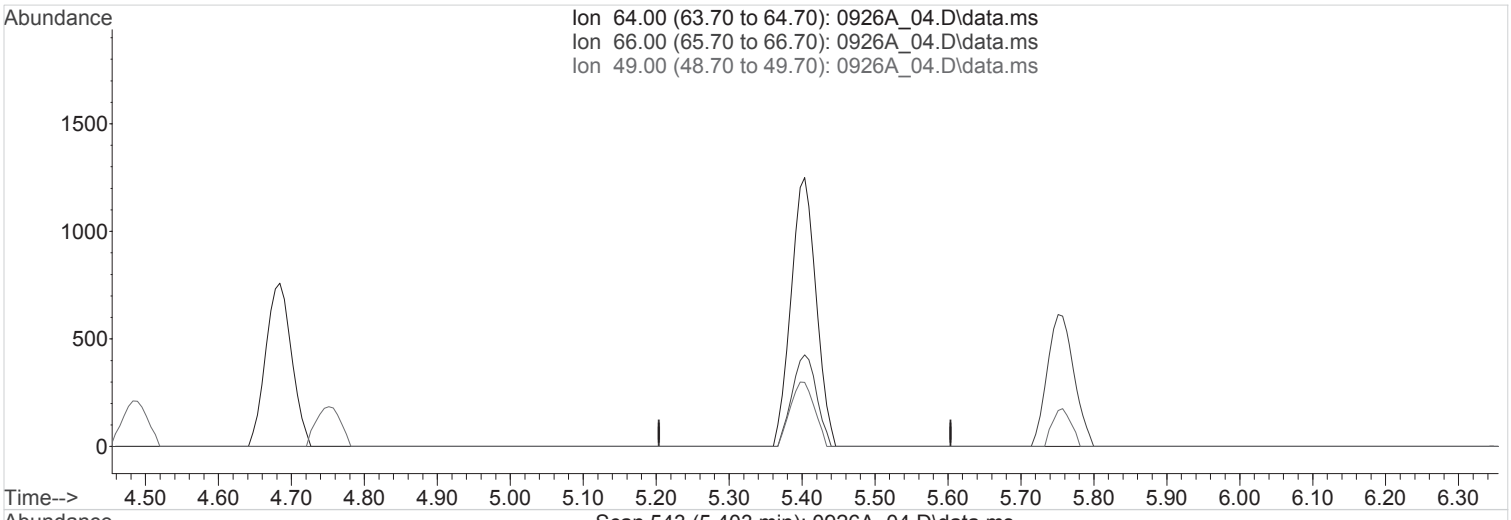
4.184min (-0.002) 0.2858821 ppbv m

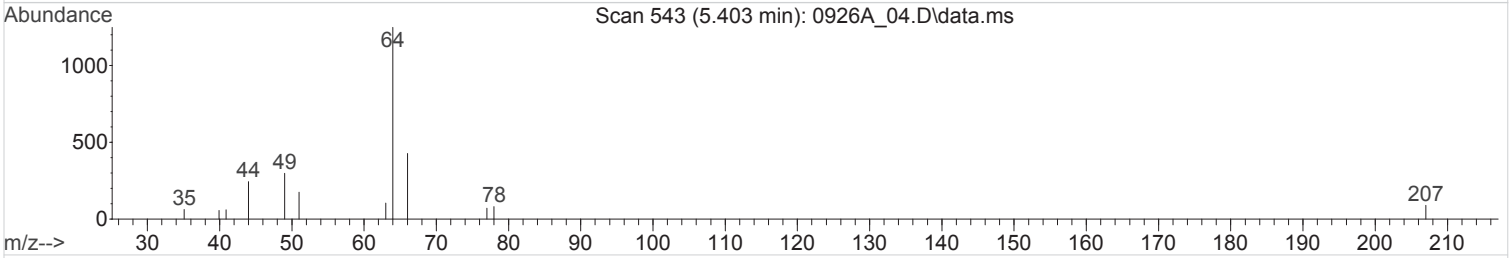
response 13230

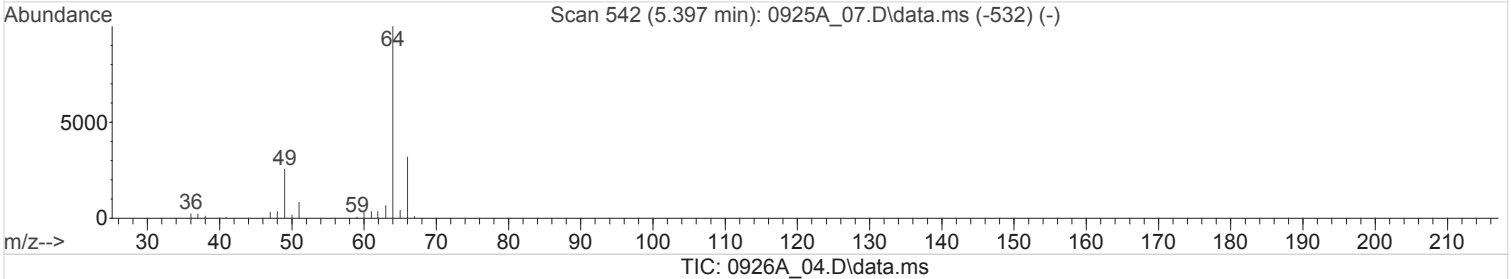
Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(11) Chloroethane (T,M)

5.404min (-5.404) 0.0000000 ppbv

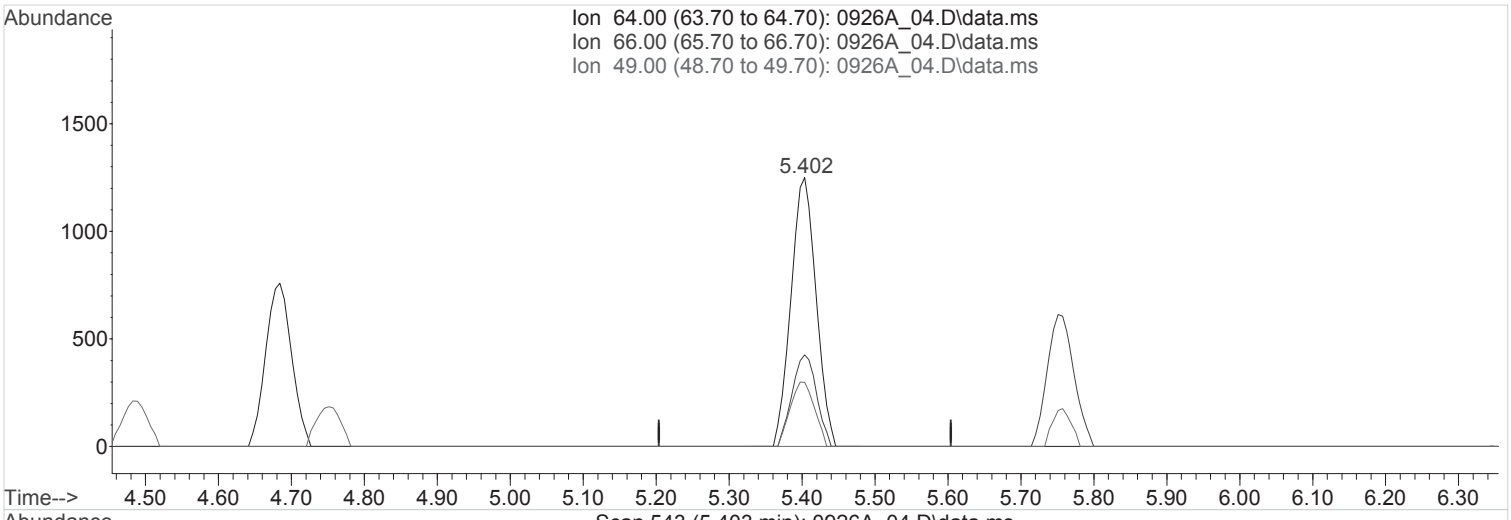
Qvalue = 0

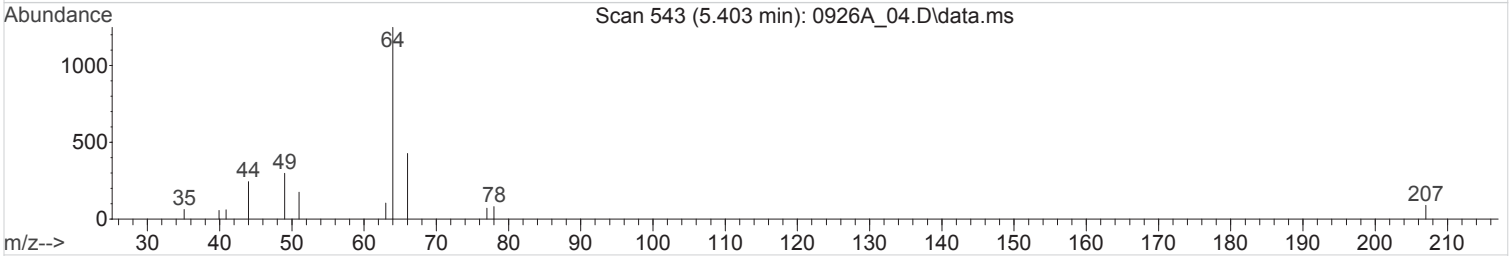
response 0

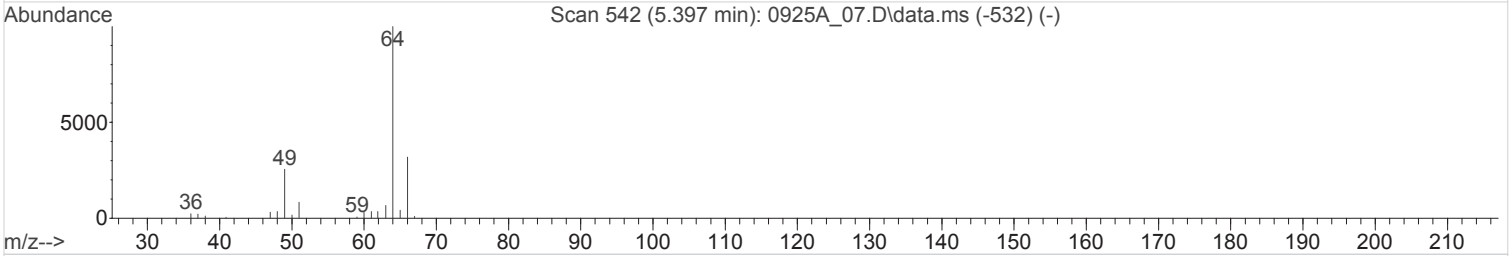
Ion	Exp%	Act%
64.00	100	0.00
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(11) Chloroethane (T,M)

5.403min (-0.001) 0.2659245 ppbv m

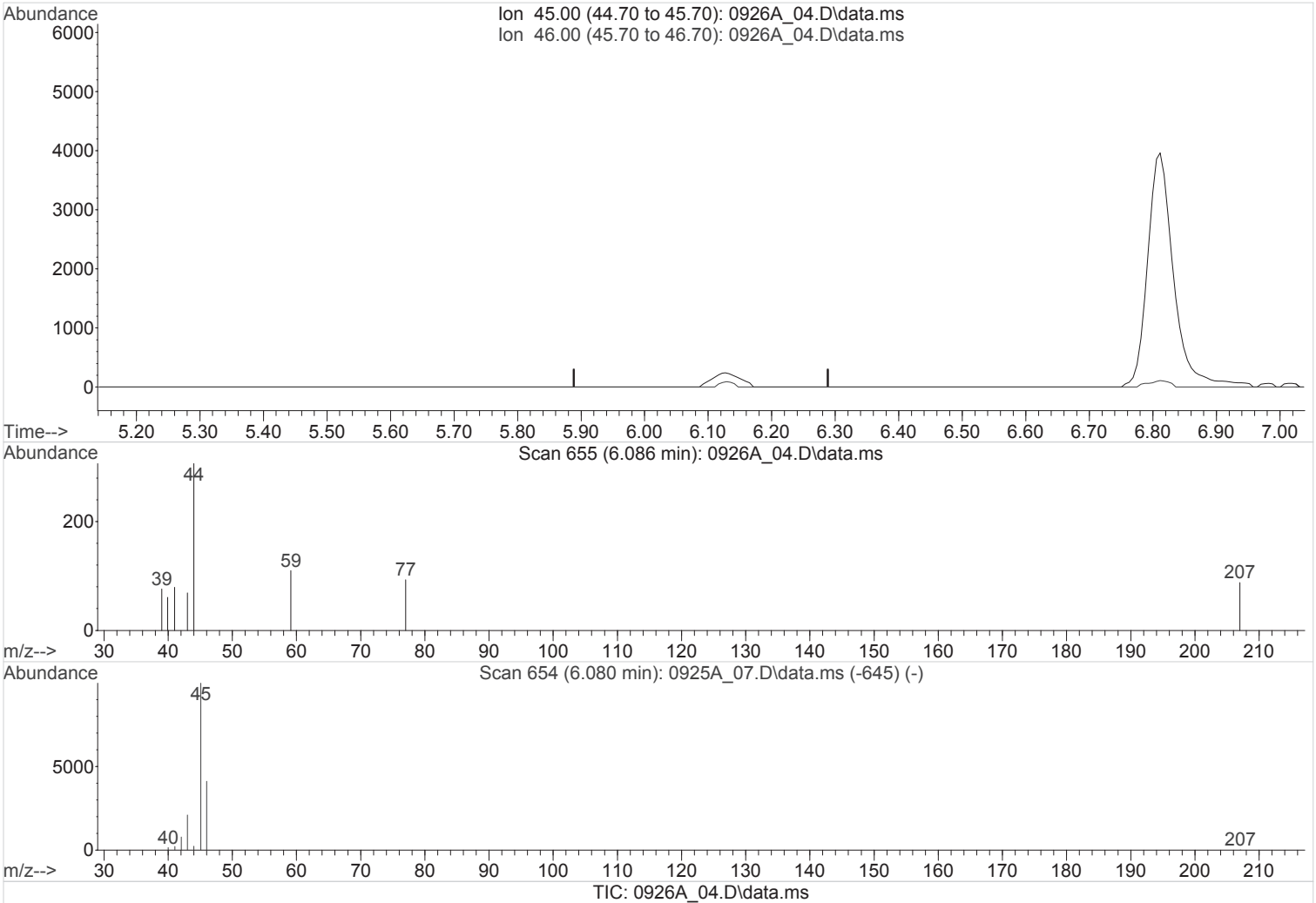
response 29904

Ion	Exp%	Act%
64.00	100	100
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

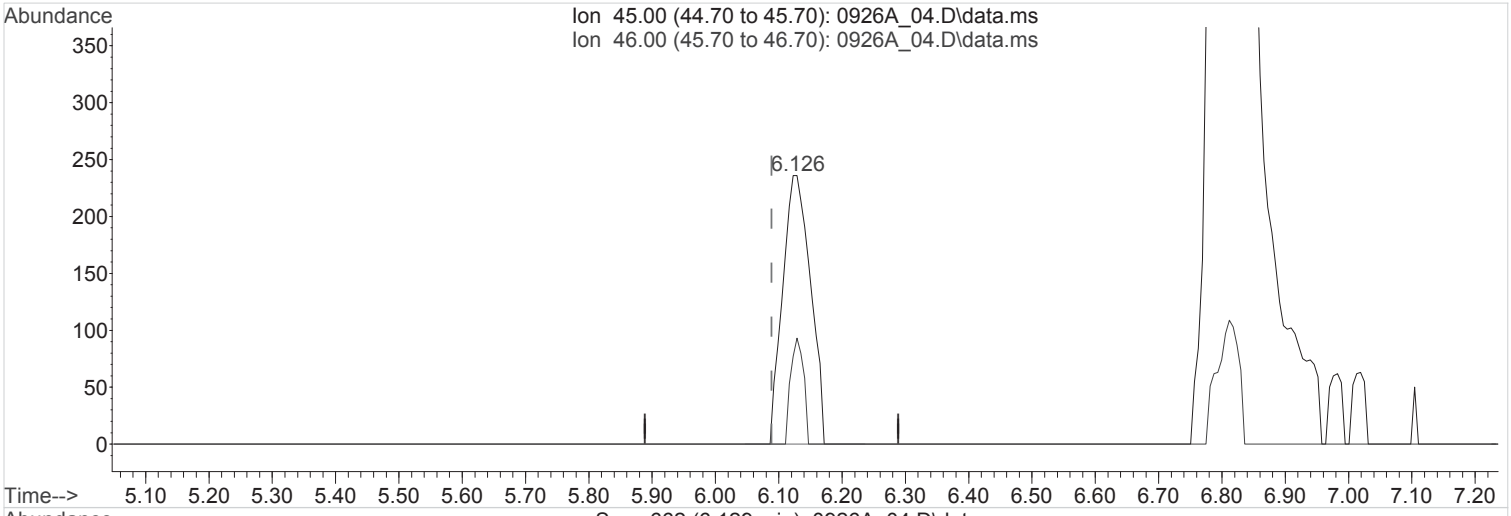
response 0

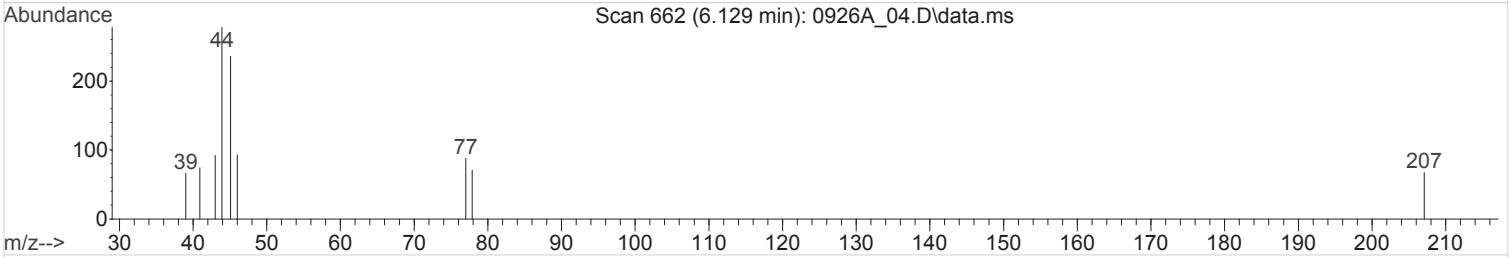
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

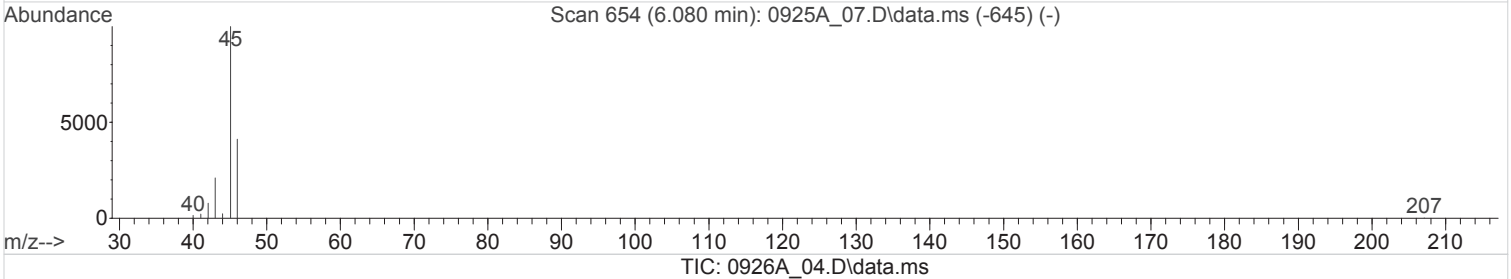
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(14) Ethanol (T,M)

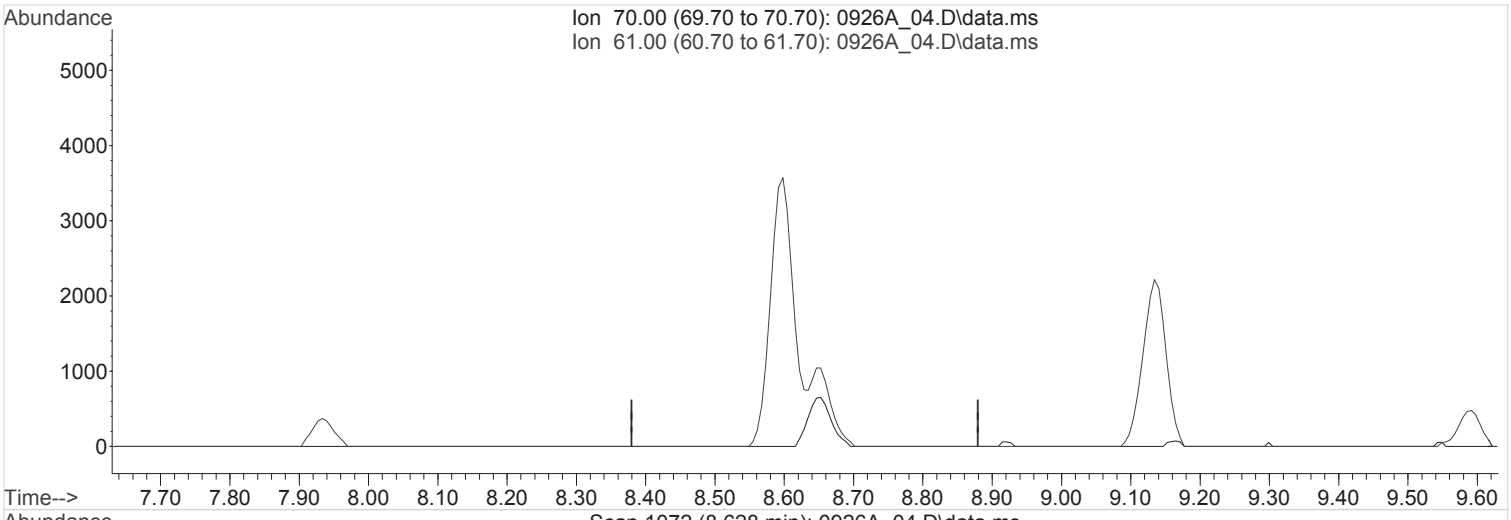
6.129min (+0.040) 0.2480676 ppbv m

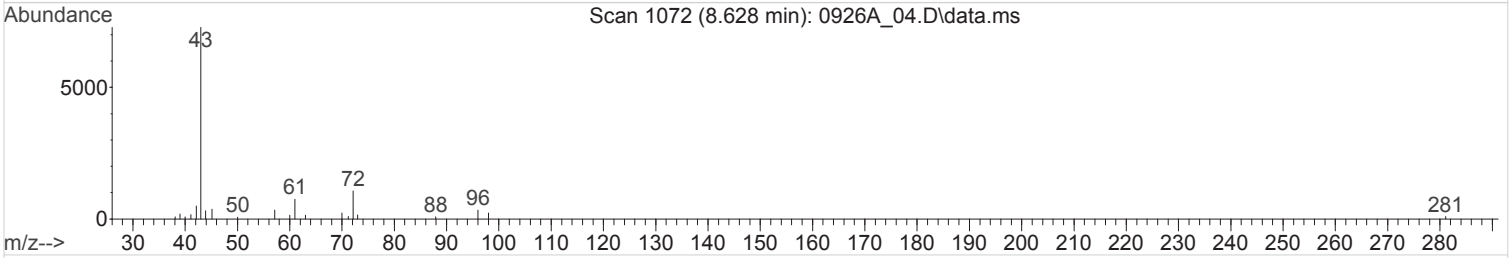
response 7206

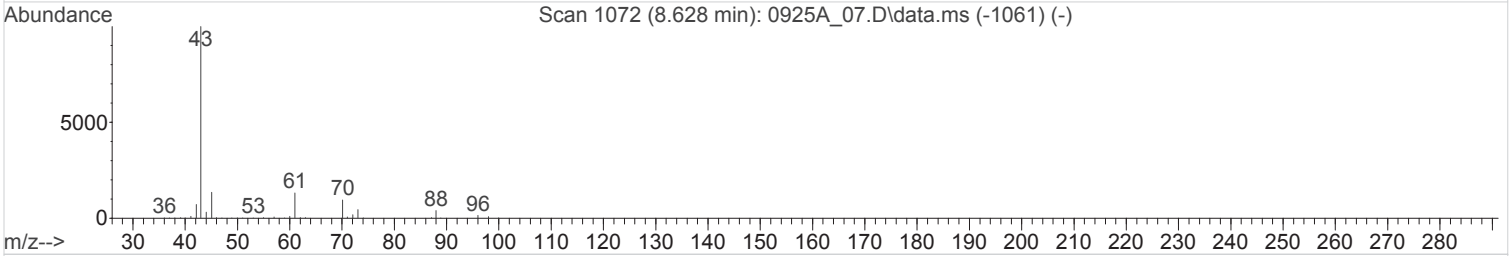
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

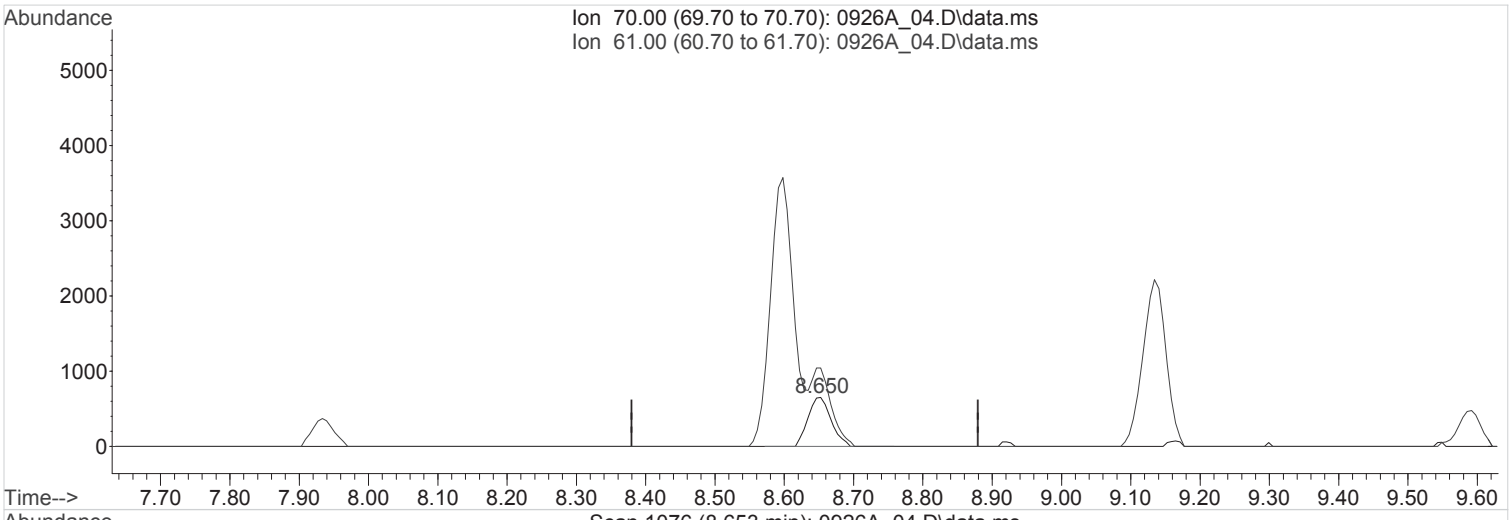
response 0

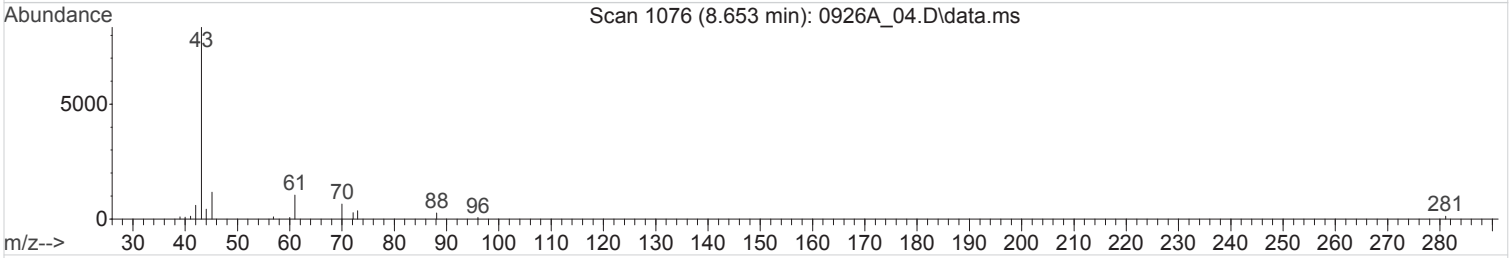
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

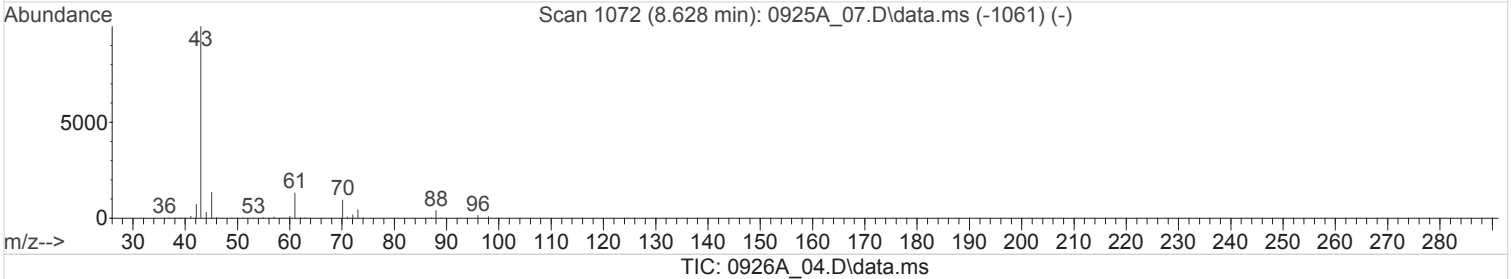
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(28) ETHYL ACETATE

8.653min (+0.023) 0.2734495 ppbv m

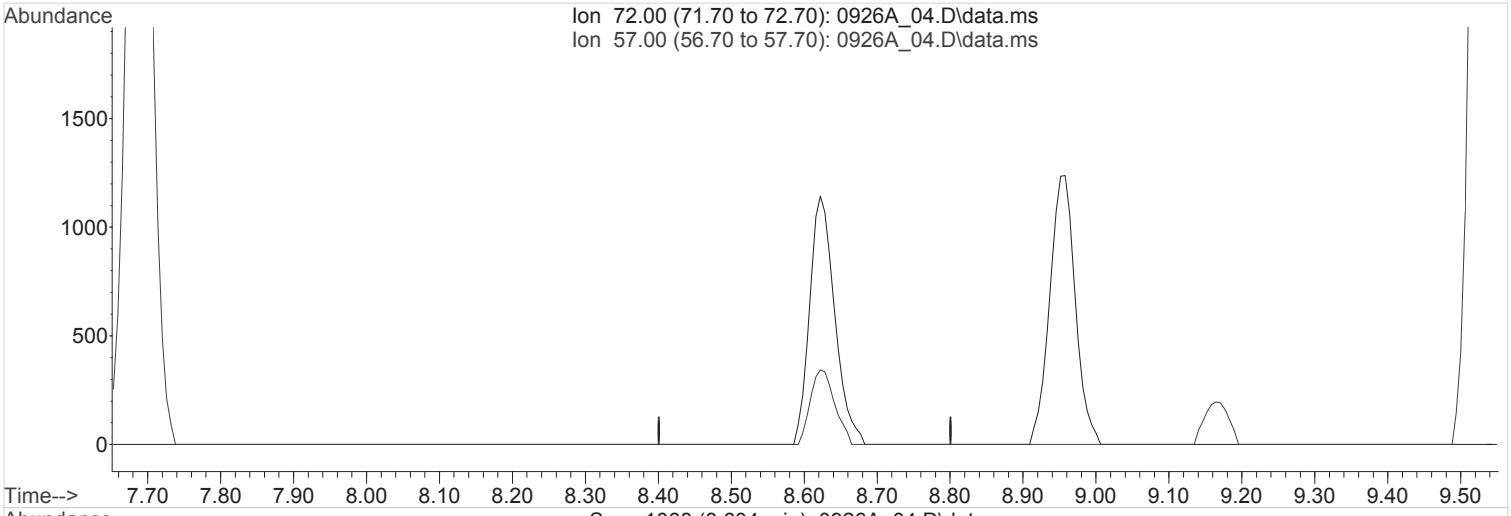
response 15107

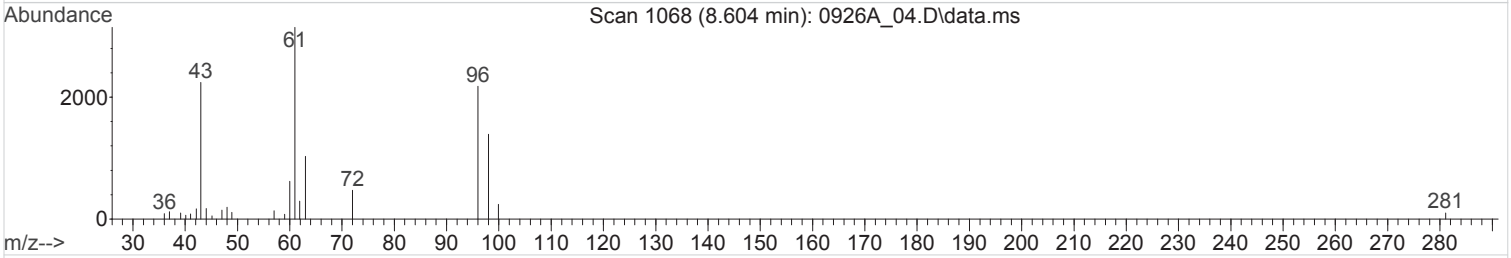
Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

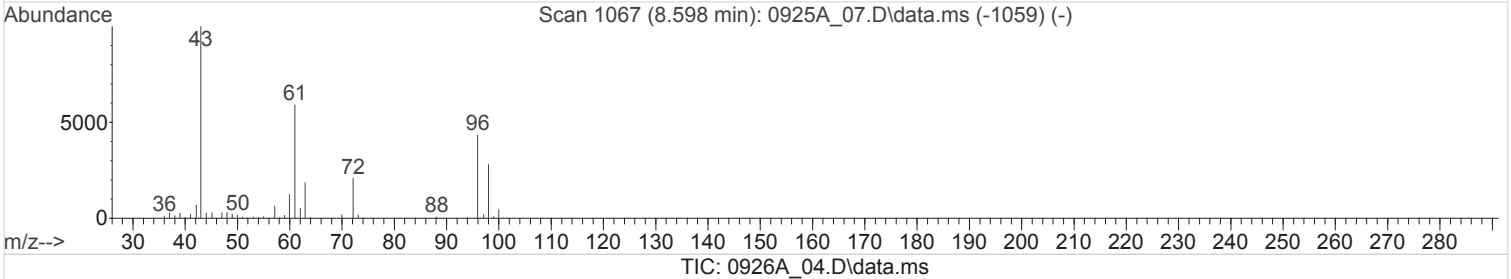
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.601min (-8.601) 0.0000000 ppbv

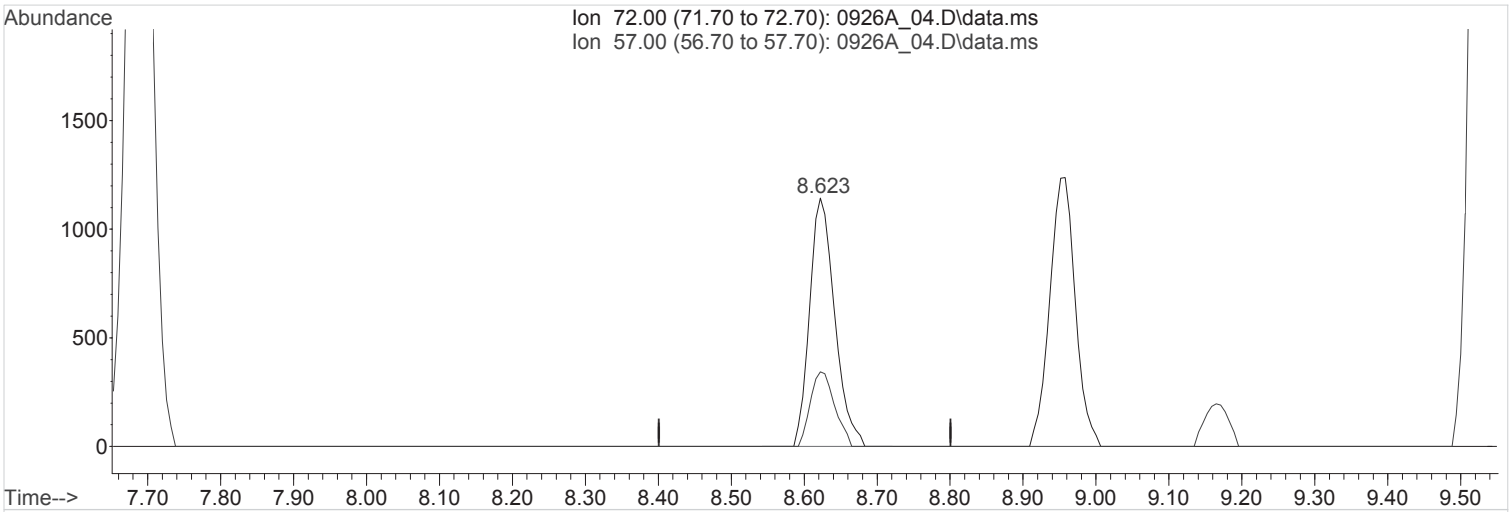
Qvalue = 0

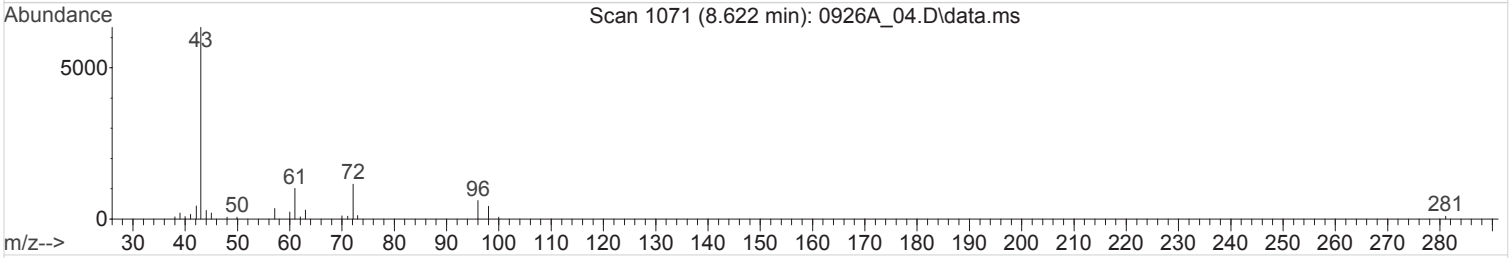
response 0

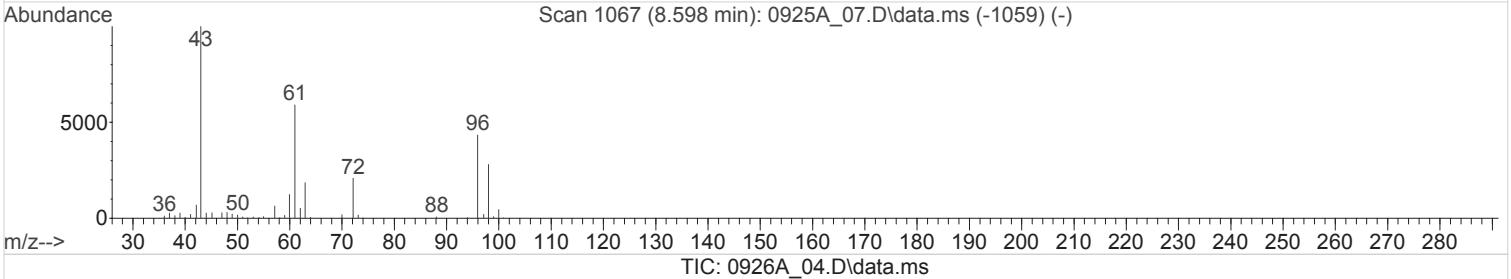
Ion	Exp%	Act%
72.00	100	0.00
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.622min (+0.021) 0.2934729 ppbv m

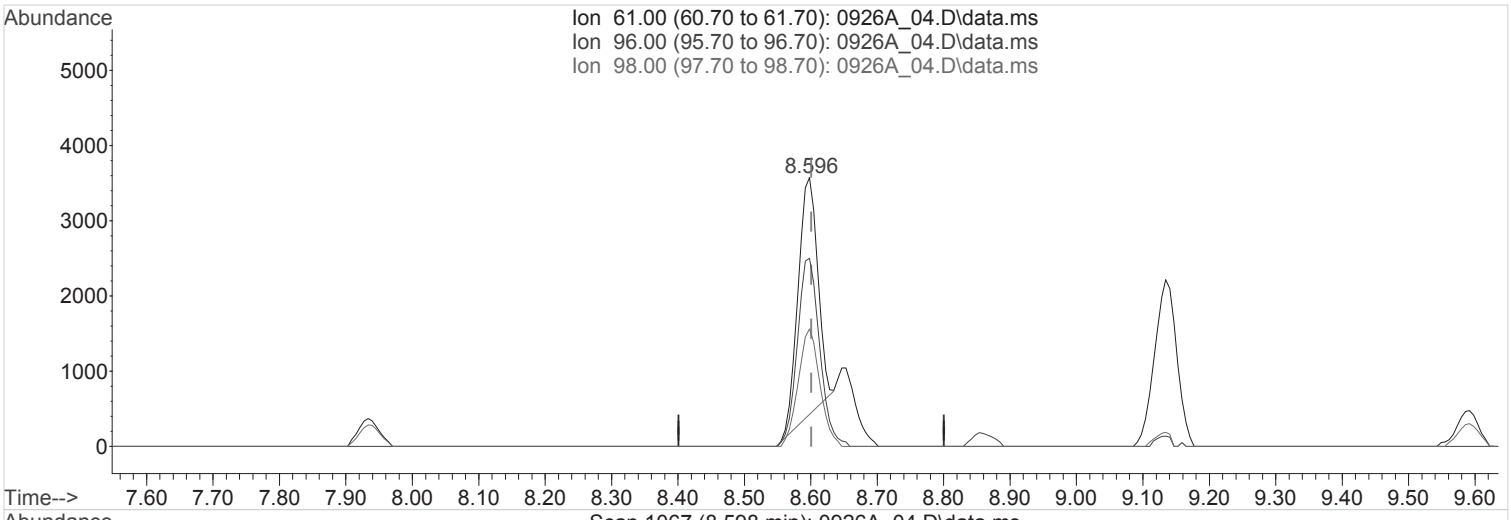
response 27366

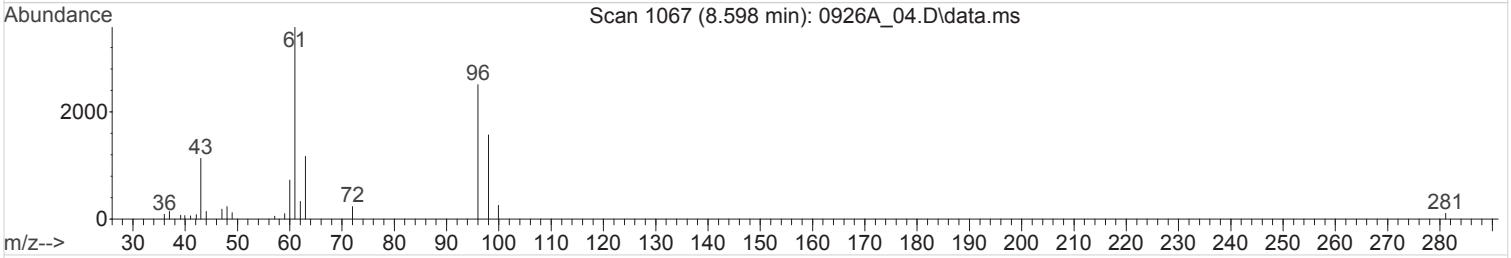
Ion	Exp%	Act%
72.00	100	100
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

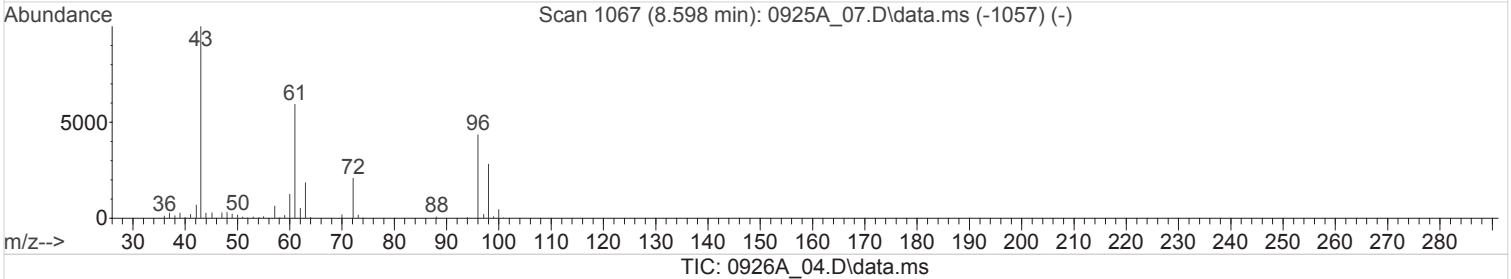
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.599min (-0.002) 0.2020060 ppbv

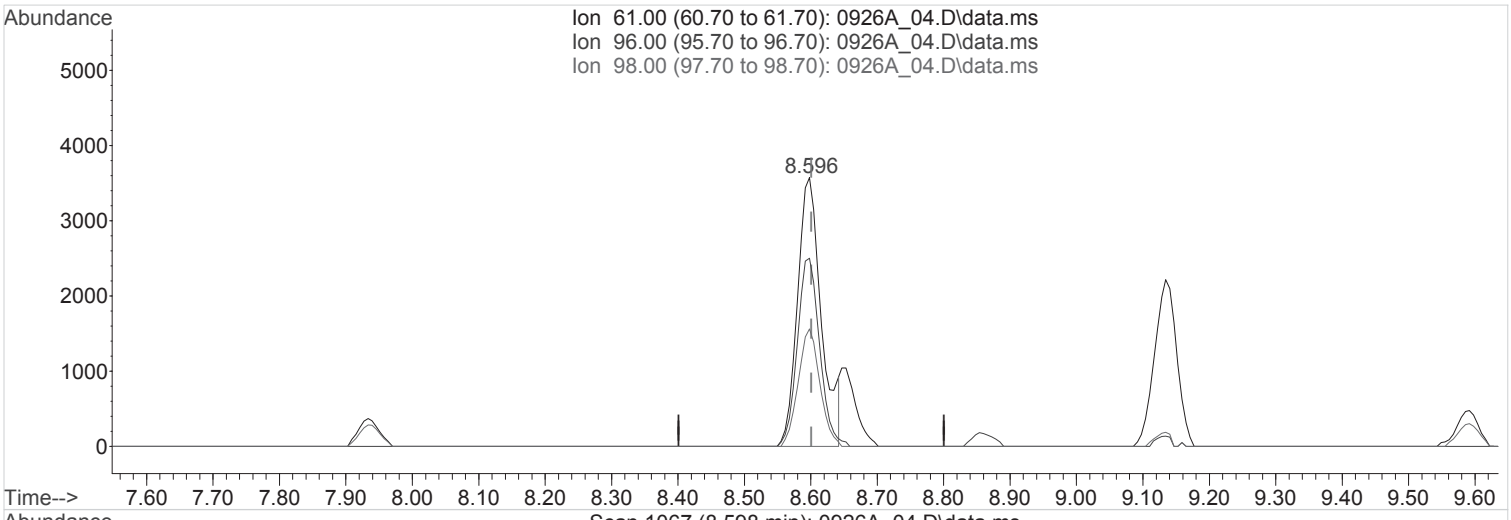
Qvalue = 54

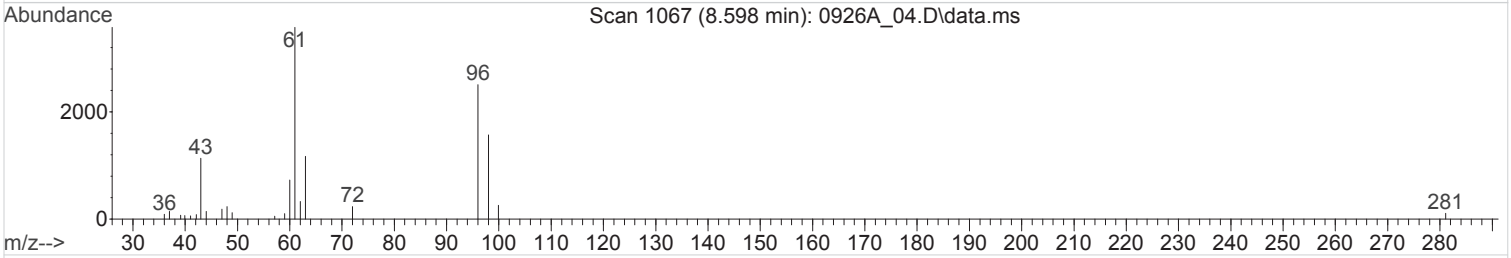
response 63691

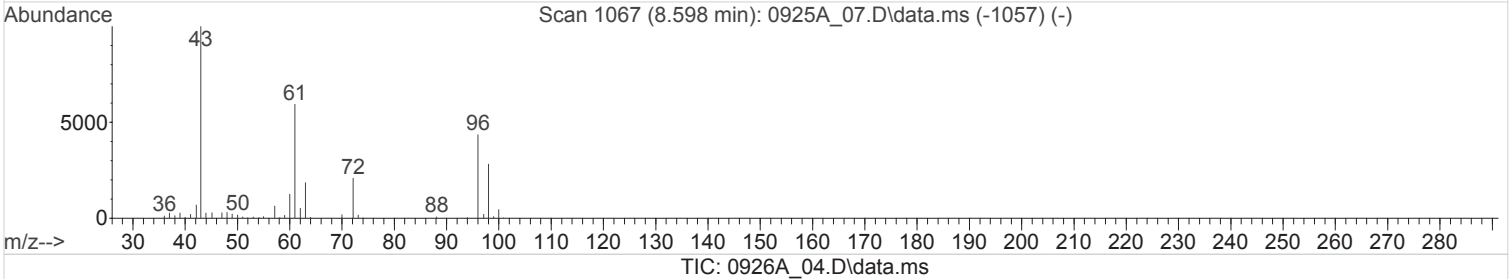
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	91.88#
98.00	34.80	55.75#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.598min (-0.003) 0.2843486 ppbv m

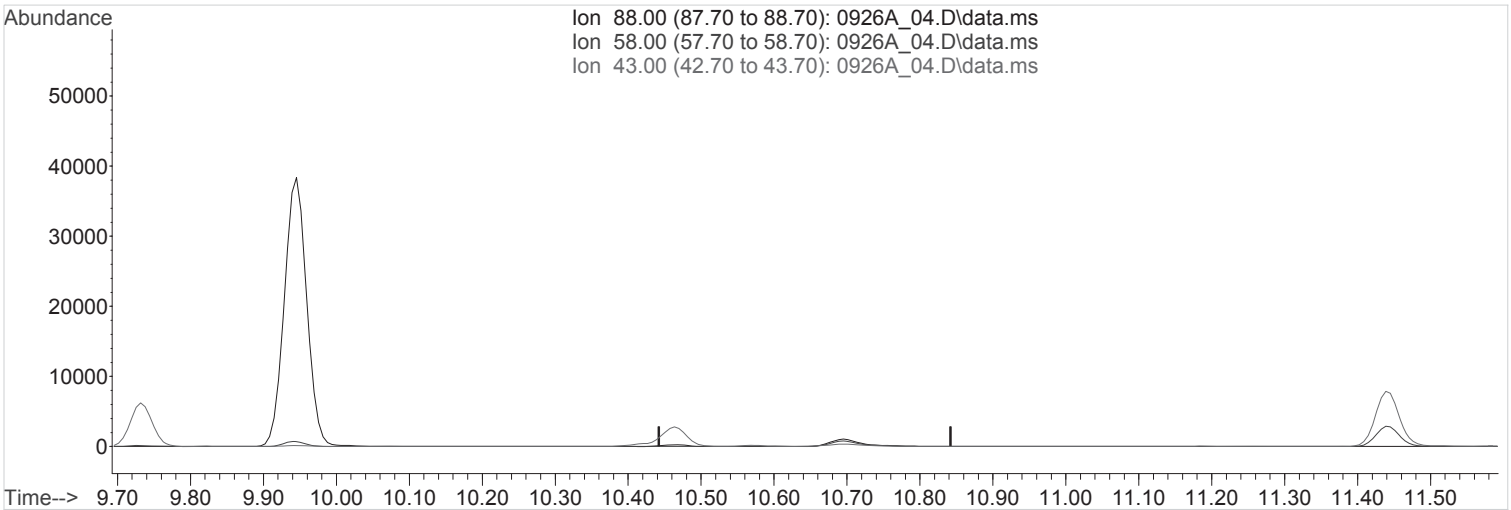
response 89654

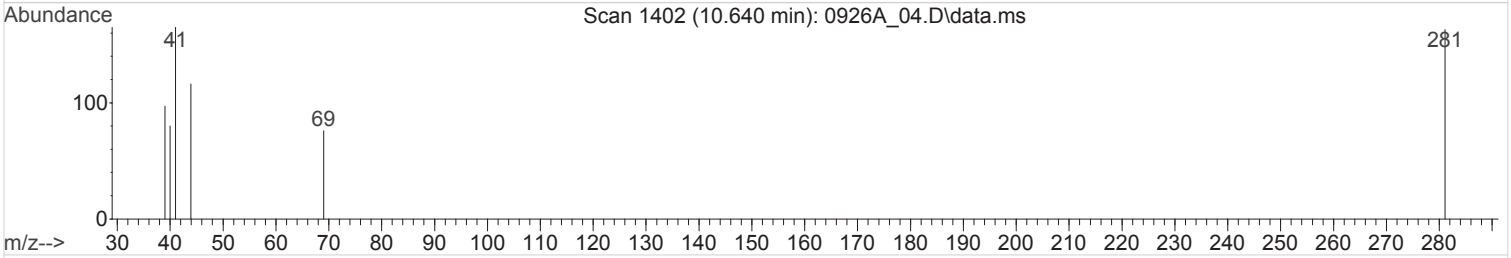
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	65.27
98.00	34.80	39.61
0.00	0.00	0.00

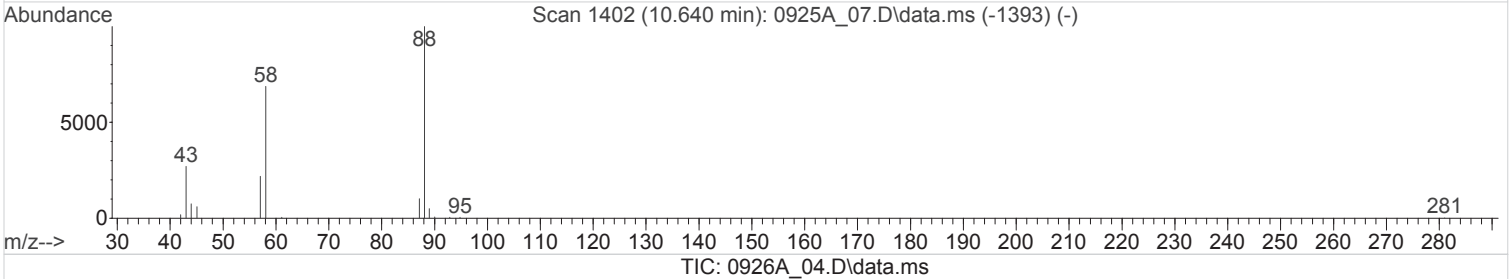
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(46) 1,4-Dioxane (T,M)

10.642min (-10.642) 0.0000000 ppbv

Qvalue = 0

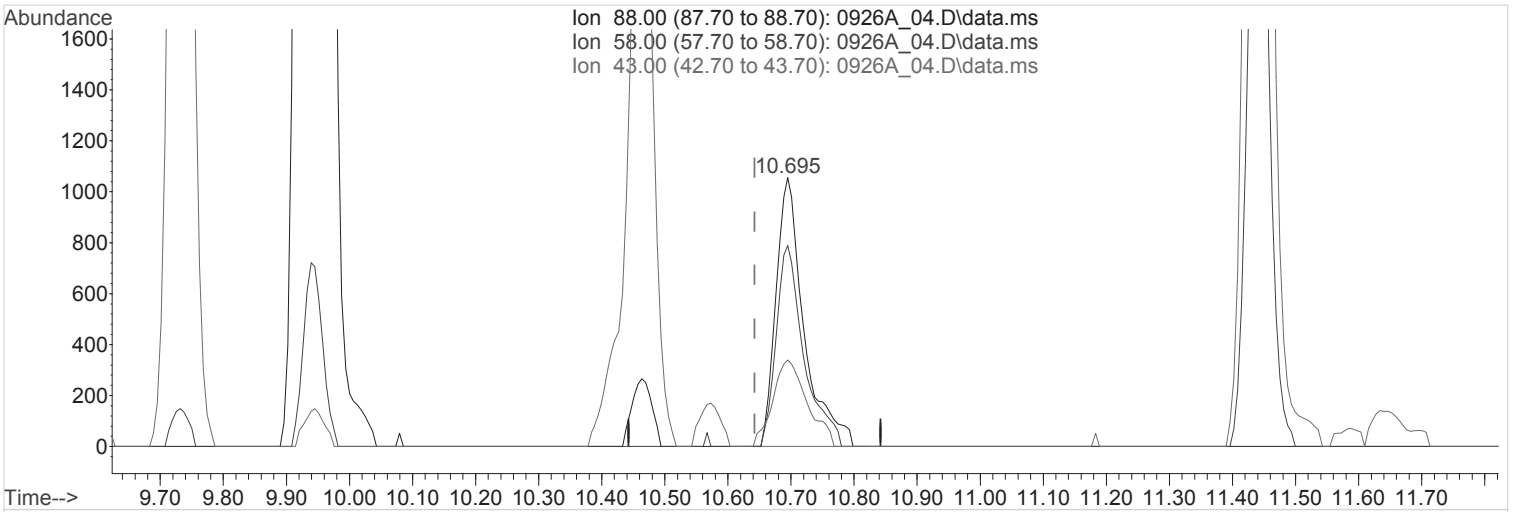
response 0

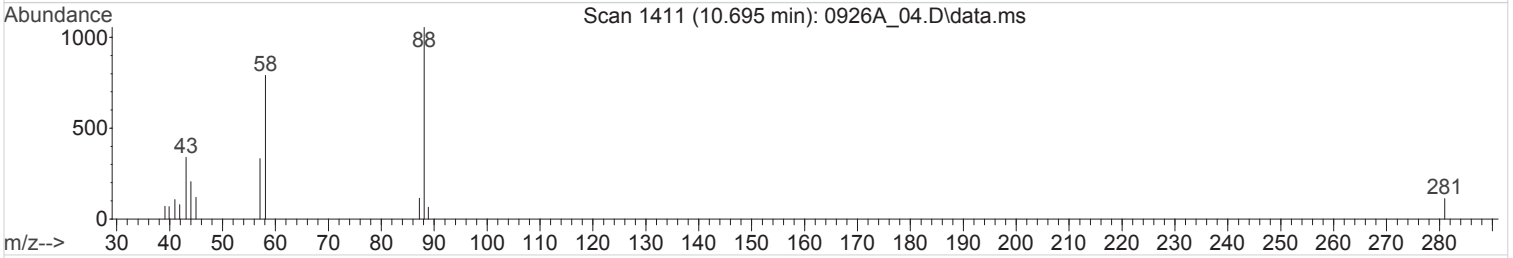
Ion	Exp%	Act%
88.00	100	0.00
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

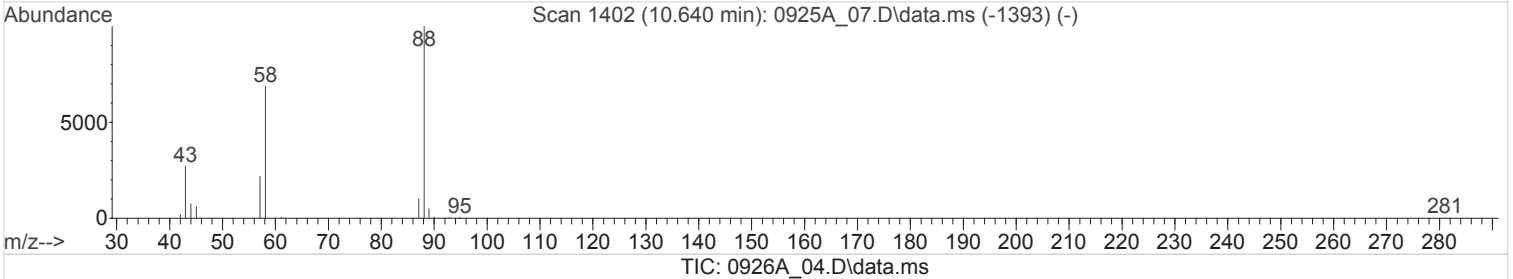
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(46) 1,4-Dioxane (T,M)

10.695min (+0.053) 0.3047368 ppbv m

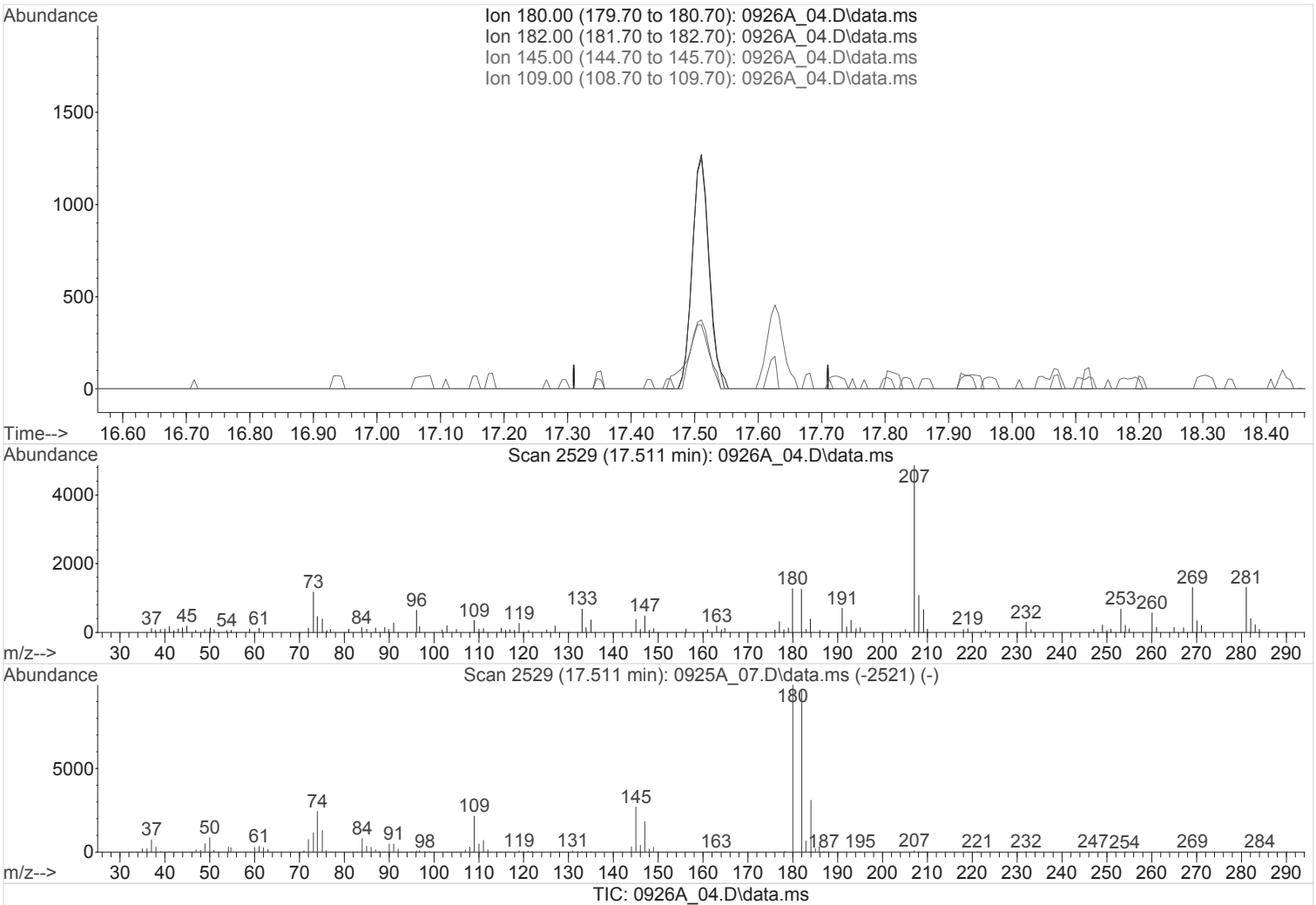
response 32552

Ion	Exp%	Act%
88.00	100	100
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.510min (-17.510) 0.0000000 ppbv

Qvalue = 0

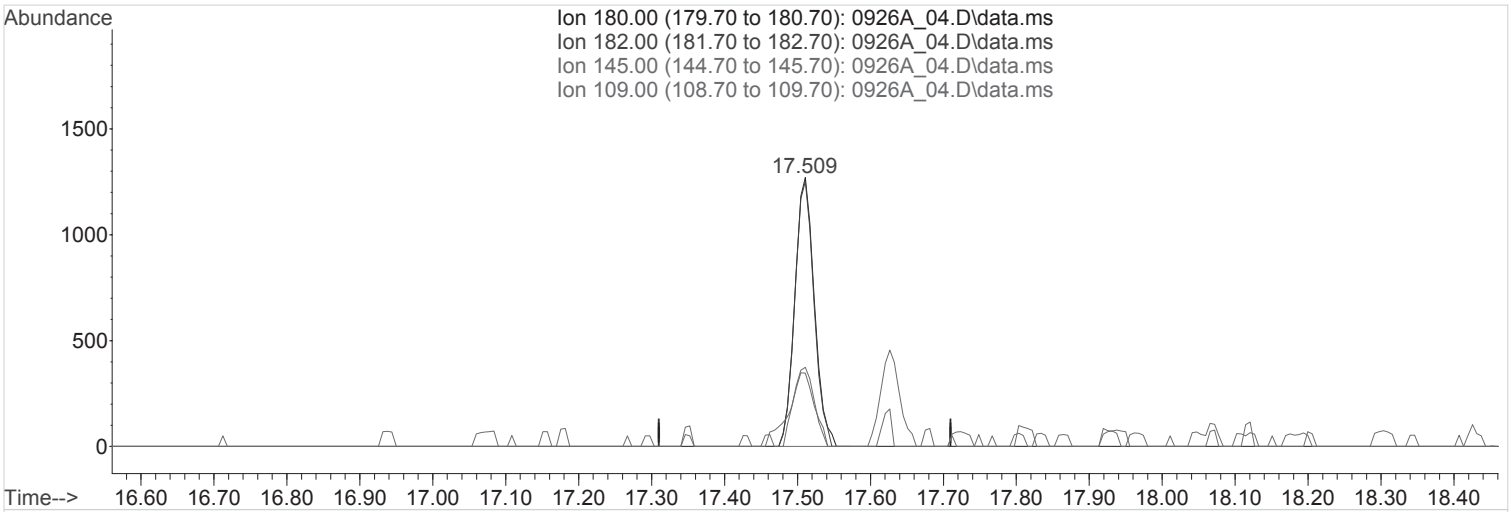
response 0

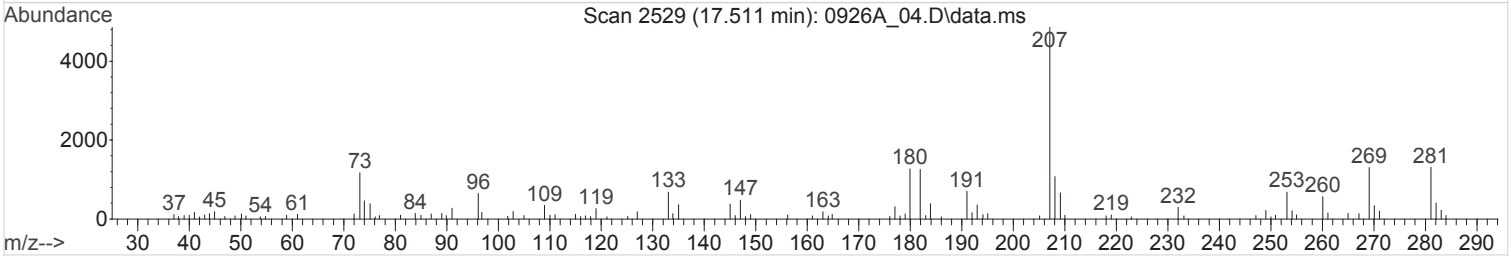
Ion	Exp%	Act%
180.00	100	0.00
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

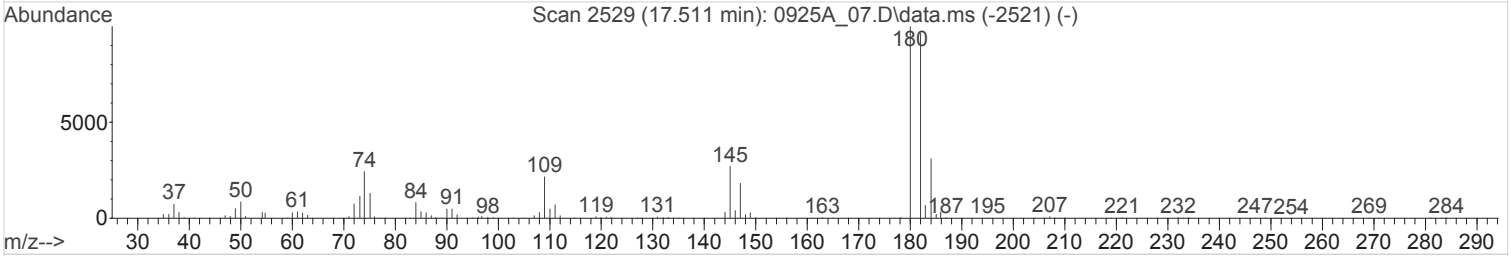
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.511min (+0.000) 0.1932046 ppbv m

response 23573

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05A.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : RL AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:49:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.867	130	1262552	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.949	114	5118927	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3749072	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	2220925	3.8130092	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 95.33%				
Target Compounds							Qvalue
2) Propene	4.091	41	127628	0.5875686	ppbv		99
3) 1,1-DIFLUOROETHANE	4.104	65	83854	0.6066447	ppbv		95
4) Dichlorodifluoromethane	4.155	85	277412	0.6644271	ppbv		98
5) CHLORODIFLUOROMETHANE	4.190	67	29164m	0.5814233	ppbv		
6) 1,2-Dichlorotetrafluor...	4.394	85	308336	0.5967436	ppbv		100
7) Chloromethane	4.494	50	129861	0.5900763	ppbv		98
8) Vinyl Chloride	4.693	62	137349	0.5824359	ppbv		99
9) 1,3-Butadiene	4.757	39	118964	0.5955244	ppbv		96
10) Bromomethane	5.250	94	107100	0.5973126	ppbv		100
11) Chloroethane	5.411	64	72027	0.5890746	ppbv		97
12) Vinyl Bromide	5.684	106	106029	0.5977612	ppbv		97
13) Trichlorofluoromethane	5.765	101	244271	0.6061266	ppbv		100
14) Ethanol	6.147	45	15915m	0.4372374	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.461	101	226259	0.6042158	ppbv		97
16) 1,1-Dichloroethene	6.486	61	204536	0.6045133	ppbv		98
17) Acetone	6.620	43	390859	0.6016069	ppbv		98
18) 2-Propanol	6.827	45	238648	0.5438229	ppbv	#	74
19) Carbon Disulfide	6.780	76	349535	0.6208913	ppbv		99
20) Allyl Chloride	6.955	41	189993	0.6103200	ppbv	#	45
21) Methylene Chloride	7.122	49	174728	0.6546799	ppbv		99
22) TERT-BUTYL ALCOHOL	7.332	59	303542	0.6233737	ppbv		96
23) Methyl Tert-Butyl Ether	7.467	73	347451	0.5887650	ppbv		98
24) Trans-1,2-Dichloroethene	7.428	96	116298	0.6040261	ppbv		97
25) n-Hexane	7.695	57	213029	0.6203170	ppbv		99
26) 1,1-Dichloroethane	7.941	63	232601	0.6190886	ppbv		100
27) Vinyl Acetate	7.981	43	206469	0.5405744	ppbv	#	77
28) ETHYL ACETATE	8.653	70	34272m	0.5679996	ppbv		
29) 2-Butanone (MEK)	8.626	72	56493	0.5614455	ppbv	#	43
30) cis-1,2-Dichloroethene	8.601	61	176921	0.5019173	ppbv	#	78
31) Tetrahydrofuran	8.957	42	165192	0.5794635	ppbv		98
32) Chloroform	8.926	83	234462	0.6119350	ppbv		98
33) Cyclohexane	9.172	84	174189	0.6041797	ppbv		97
34) 1,1,1-Trichloroethane	9.140	97	218552	0.6062150	ppbv		100
35) Carbon Tetrachloride	9.305	117	207587	0.6127054	ppbv		99
36) 2,2,4-Trimethylpentane	9.547	57	707879	0.6168264	ppbv		99
38) Benzene	9.538	78	409163	0.6131822	ppbv		96
39) 1,2-Dichloroethane	9.594	62	165725	0.6106676	ppbv		99
40) Heptane	9.737	43	283286	0.6147852	ppbv		100
41) Trichloroethene	10.241	95	160371	0.6169805	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.468	73	129487	0.6166933	ppbv		99
43) METHYL CYCLOHEXANE	10.425	83	228971	0.6216202	ppbv		98
44) 1,2-Dichloropropane	10.511	63	155120	0.6290011	ppbv		95
45) Methyl Methacrylate	10.575	69	138930	0.5776786	ppbv		100
46) 1,4-Dioxane	10.695	88	69953m	0.6013377	ppbv		
47) Bromodichloromethane	10.787	83	245606	0.5970156	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05A.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : RL AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

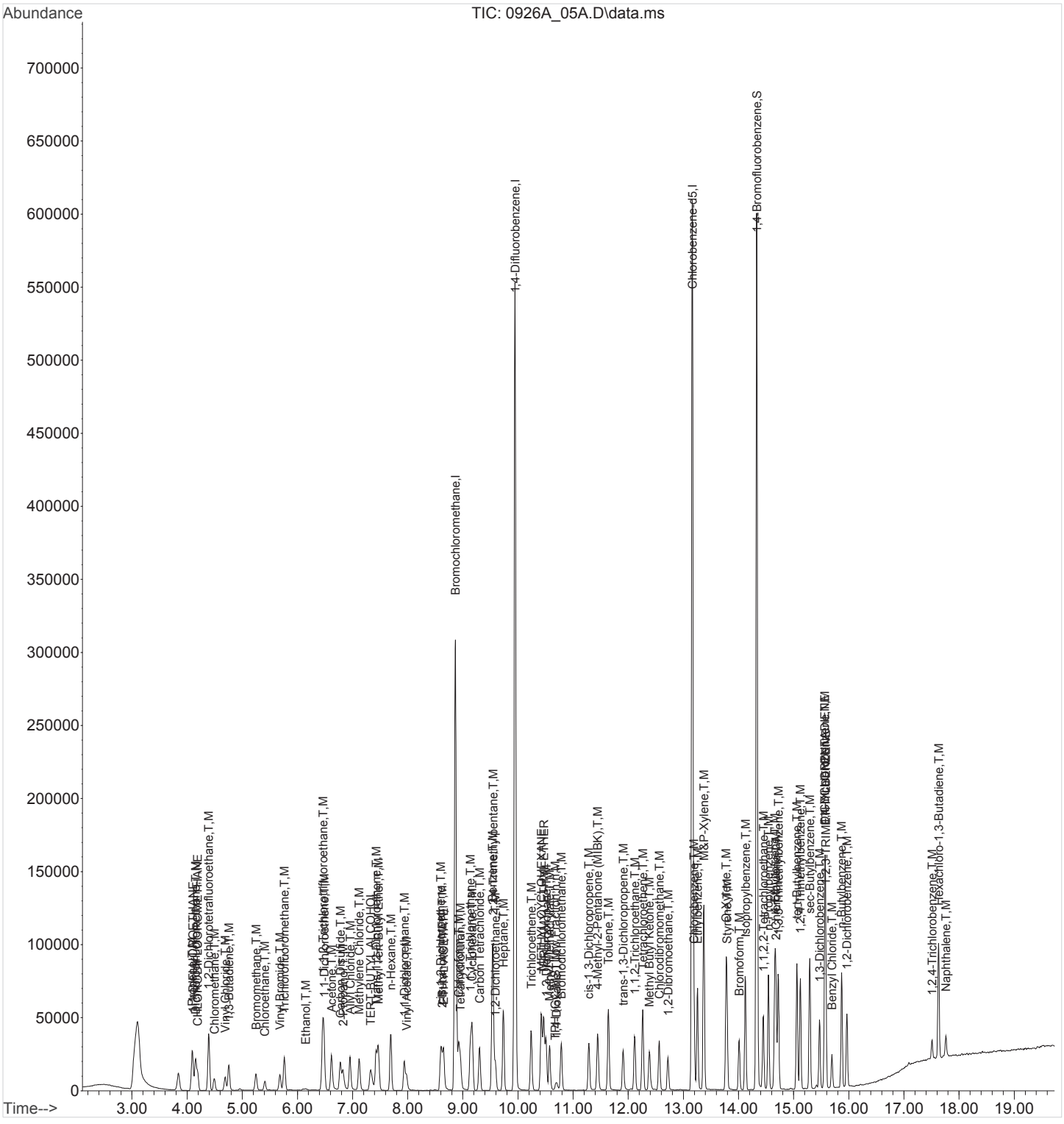
Quant Time: Sep 27 08:49:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,3-Dichloropropene	11.287	75	220764	0.5886609	ppbv		98
49) 4-Methyl-2-Pentanone (...	11.447	43	356414	0.5974207	ppbv		99
50) Toluene	11.643	91	486935	0.6118006	ppbv		99
51) trans-1,3-Dichloropropene	11.910	75	171996	0.5662742	ppbv		99
52) 1,1,2-Trichloroethane	12.120	97	142026	0.5863955	ppbv		98
53) Tetrachloroethene	12.266	166	207470	0.6177263	ppbv		100
54) Methyl Butyl Ketone	12.386	43	251928	0.5530653	ppbv	#	95
55) Chlorodibromomethane	12.564	129	212544	0.5698632	ppbv		99
56) 1,2-Dibromoethane	12.722	107	184517	0.5688269	ppbv		98
57) Chlorobenzene	13.193	112	310115	0.6093990	ppbv		89
59) Ethylbenzene	13.258	91	540437	0.5984106	ppbv		100
60) M&P-Xylene	13.372	91	801924	1.1749401	ppbv		99
61) O-Xylene	13.776	91	413394	0.5948417	ppbv		99
62) Styrene	13.793	104	280328	0.5607853	ppbv		98
63) Bromoform	14.012	173	180015	0.5489288	ppbv		100
64) Isopropylbenzene	14.126	105	590225	0.6179286	ppbv	#	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	298734	0.6023804	ppbv		99
66) n-Propylbenzene	14.545	91	691957	0.6104793	ppbv		100
67) 4-Ethyltoluene	14.660	105	555841	0.6014492	ppbv		100
68) 2-Chlorotoluene	14.680	91	515653	0.5997836	ppbv		99
70) 1,3,5-Trimethylbenzene	14.723	105	479016	0.6142429	ppbv		99
71) tert-Butylbenzene	15.061	119	481062	0.6378416	ppbv		99
72) 1,2,4-Trimethylbenzene	15.124	105	465357	0.6046402	ppbv		99
73) sec-Butylbenzene	15.294	105	736655	0.6184596	ppbv		99
74) 1,3-Dichlorobenzene	15.472	146	217916	0.5137633	ppbv		98
75) 1,4-Dichlorobenzene	15.566	146	203648m	0.5043537	ppbv		
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	478758	0.6130653	ppbv		99
77) DICYCLOPENTADIENE	15.569	66	676072	0.6144272	ppbv		99
78) Benzyl Chloride	15.696	91	190382	0.4238322	ppbv		99
79) n-Butylbenzene	15.873	91	503800	0.5751488	ppbv		99
80) 1,2-Dichlorobenzene	15.969	146	236310	0.5472628	ppbv		99
81) 1,2,4-Trichlorobenzene	17.512	180	48123	0.2910303	ppbv	#	81
82) Hexachloro-1,3-Butadiene	17.631	225	176267	0.6240725	ppbv		100
83) Naphthalene	17.763	128	124664	0.3036610	ppbv	#	85
84) TPH (GC/MS) Low Fraction	10.675	TIC	45453810m	28.3132023	ppbv		

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

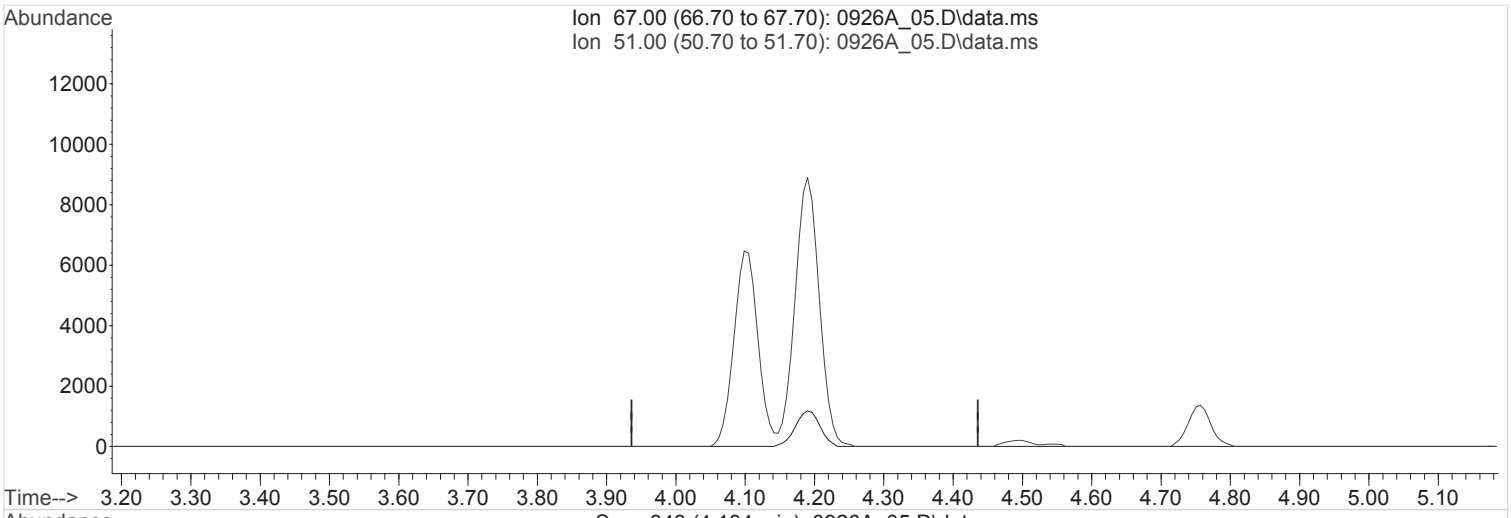
Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05A.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : RL AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

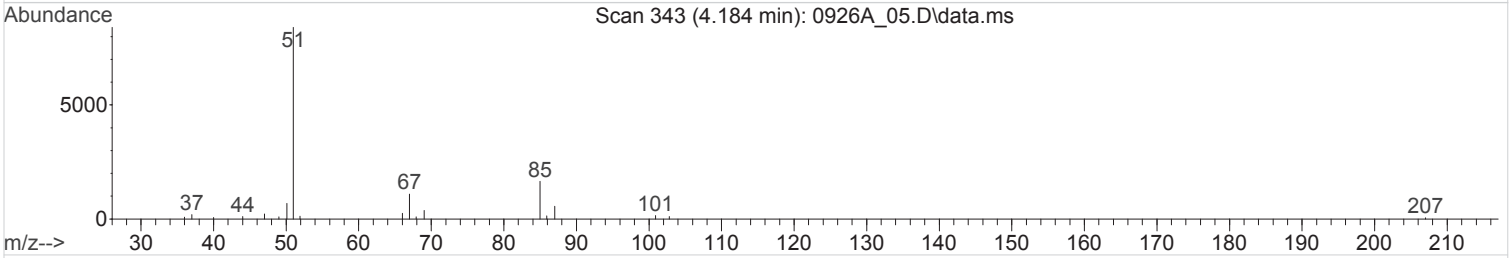
Quant Time: Sep 27 08:49:05 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

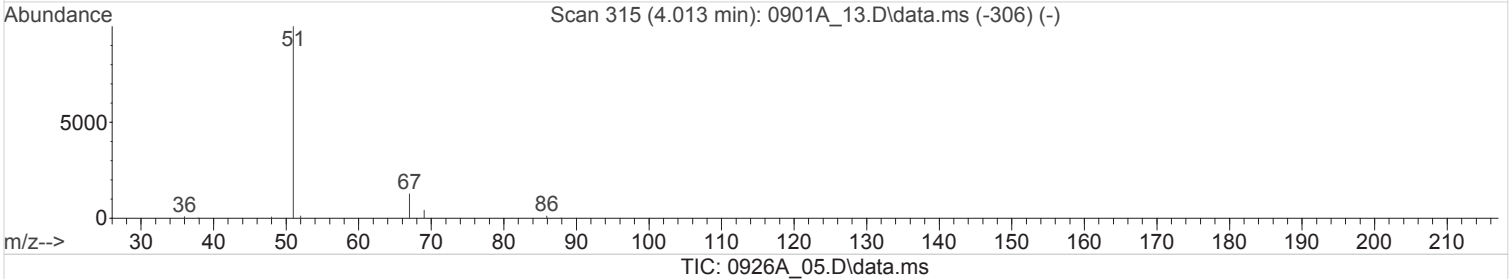


Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

Qvalue = 0

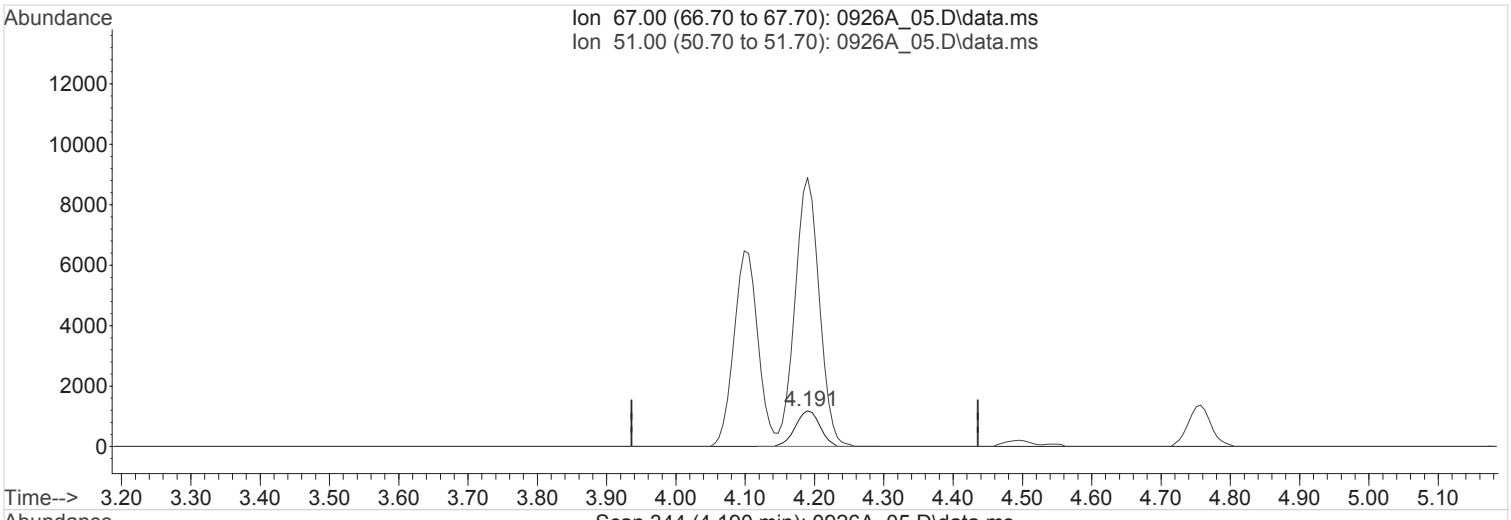
response 0

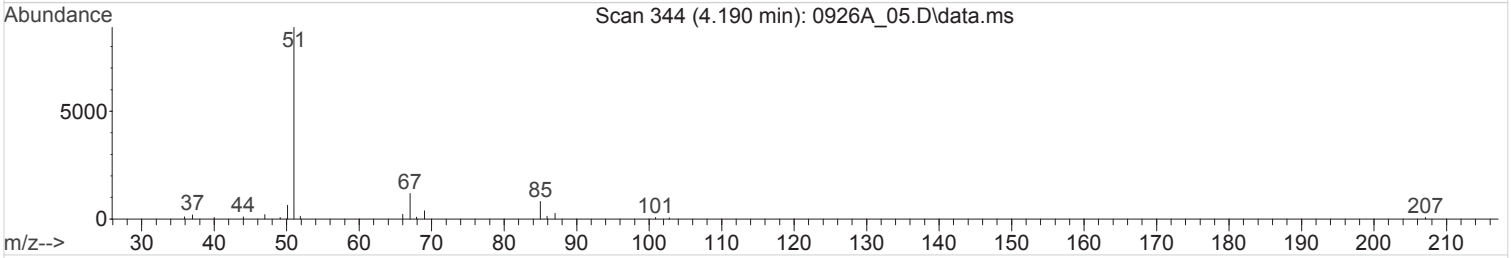
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

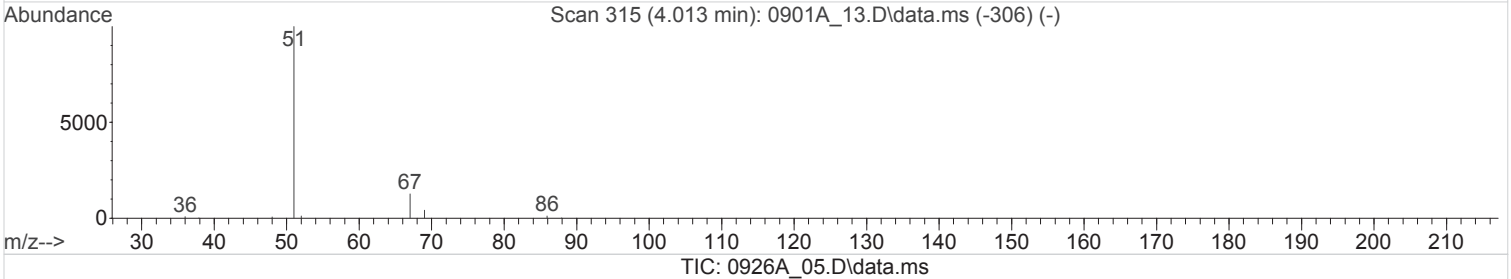
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.190min (+0.004) 0.6650016 ppbv m

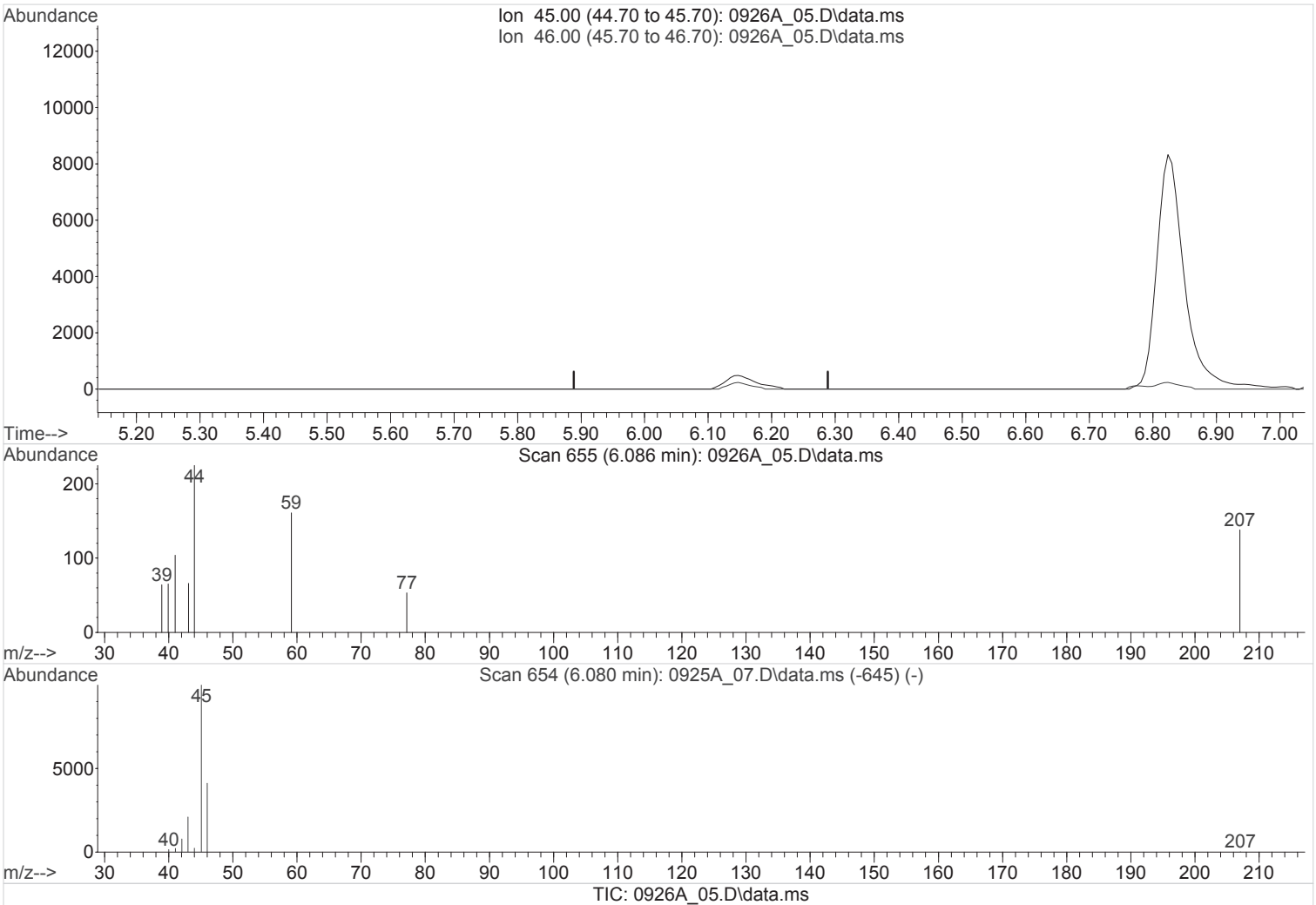
response 29164

Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

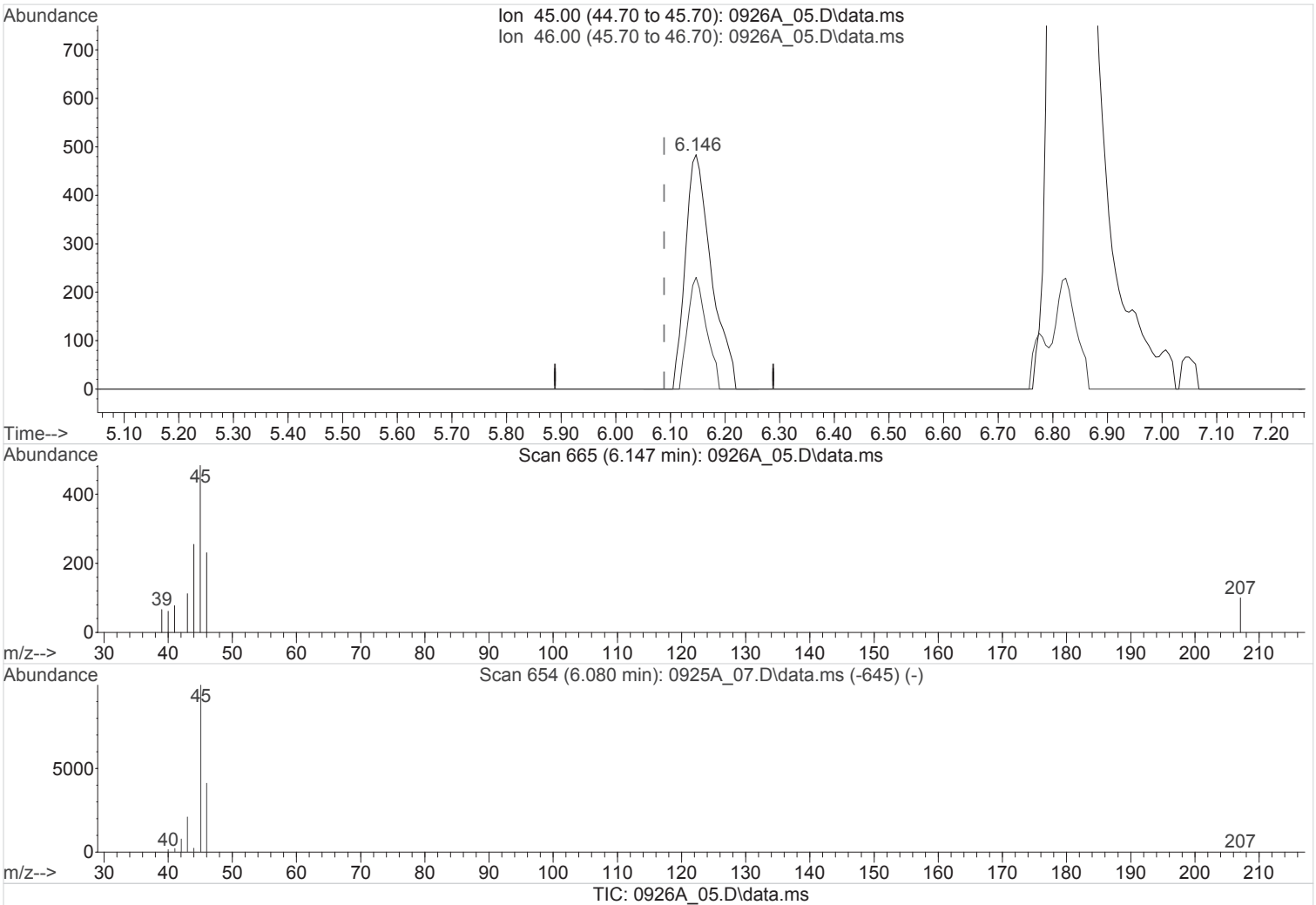
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(14) Ethanol (T,M)

6.147min (+0.058) 0.6033090 ppbv m

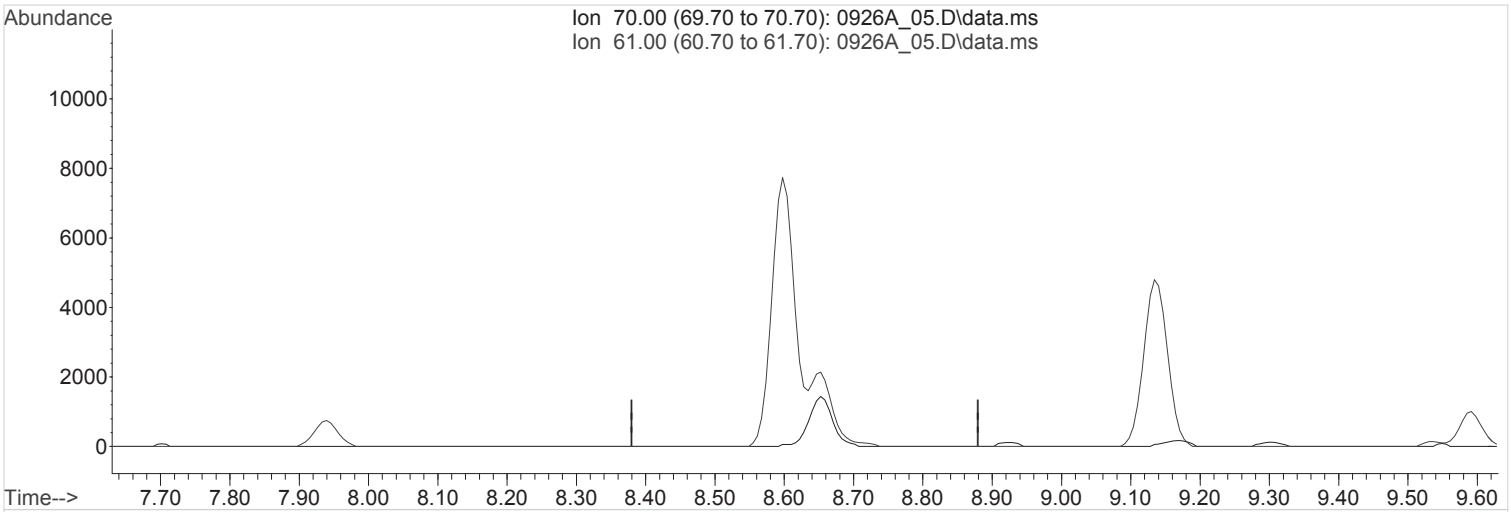
response 15915

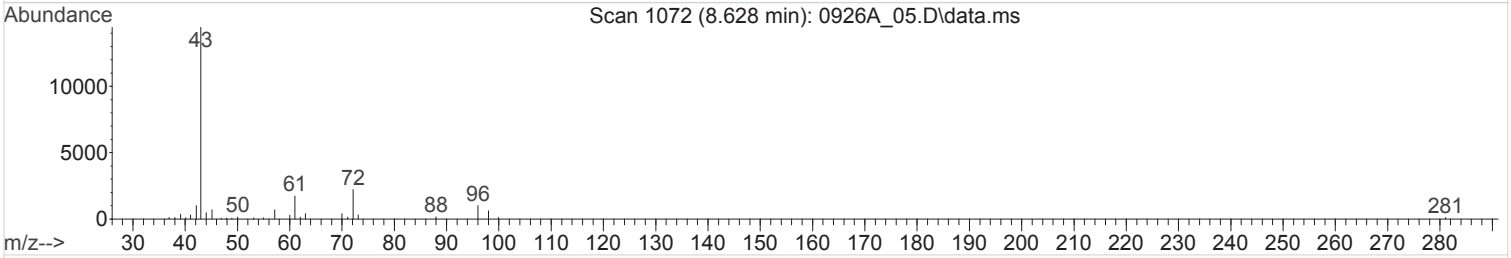
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

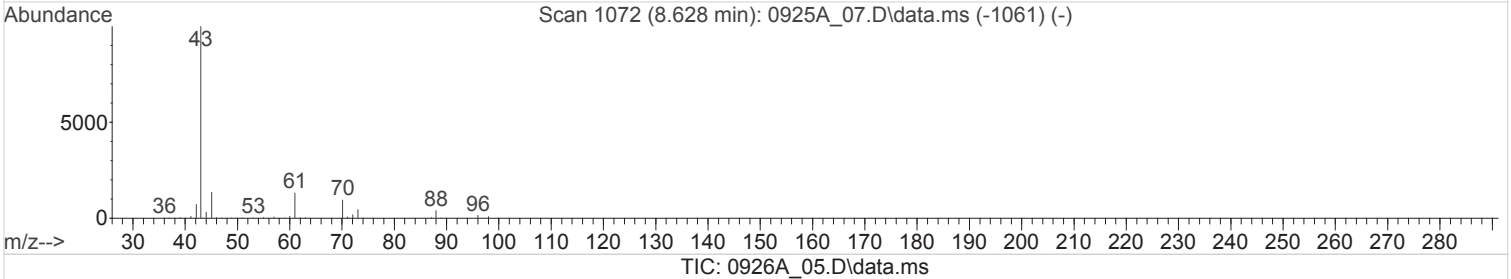
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

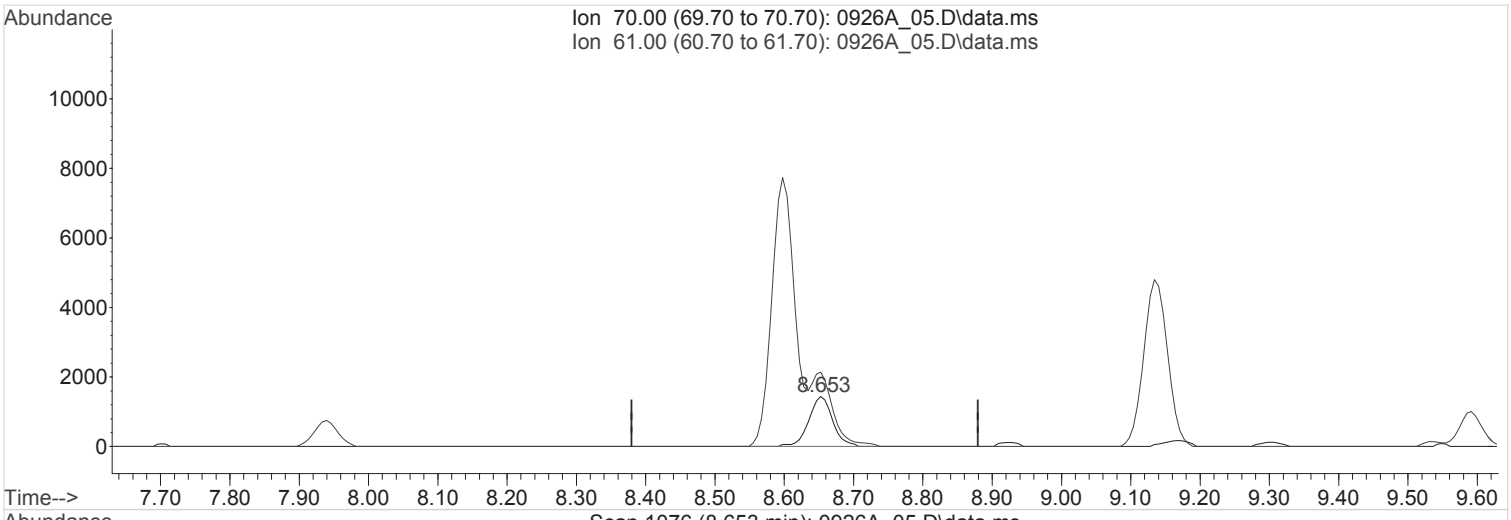
response 0

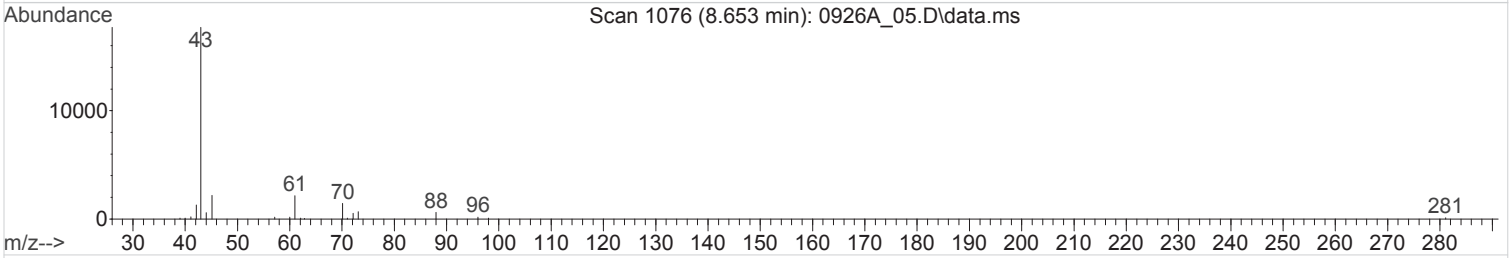
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

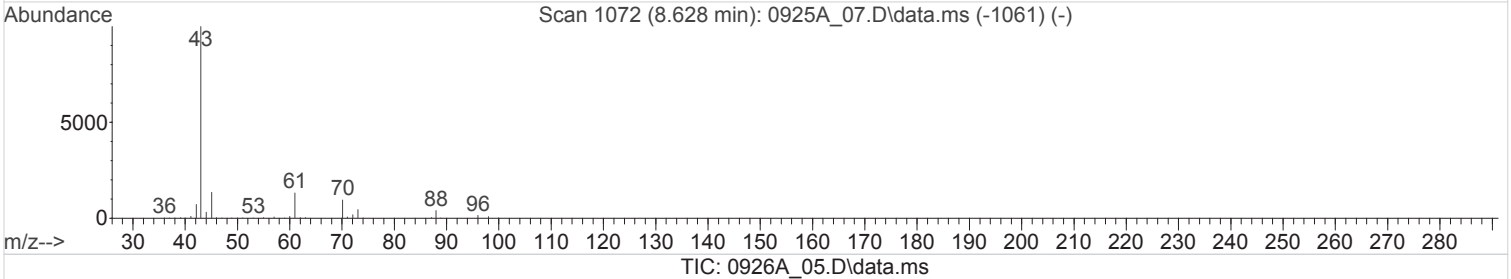
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(28) ETHYL ACETATE

8.653min (+0.023) 0.6636910 ppbv m

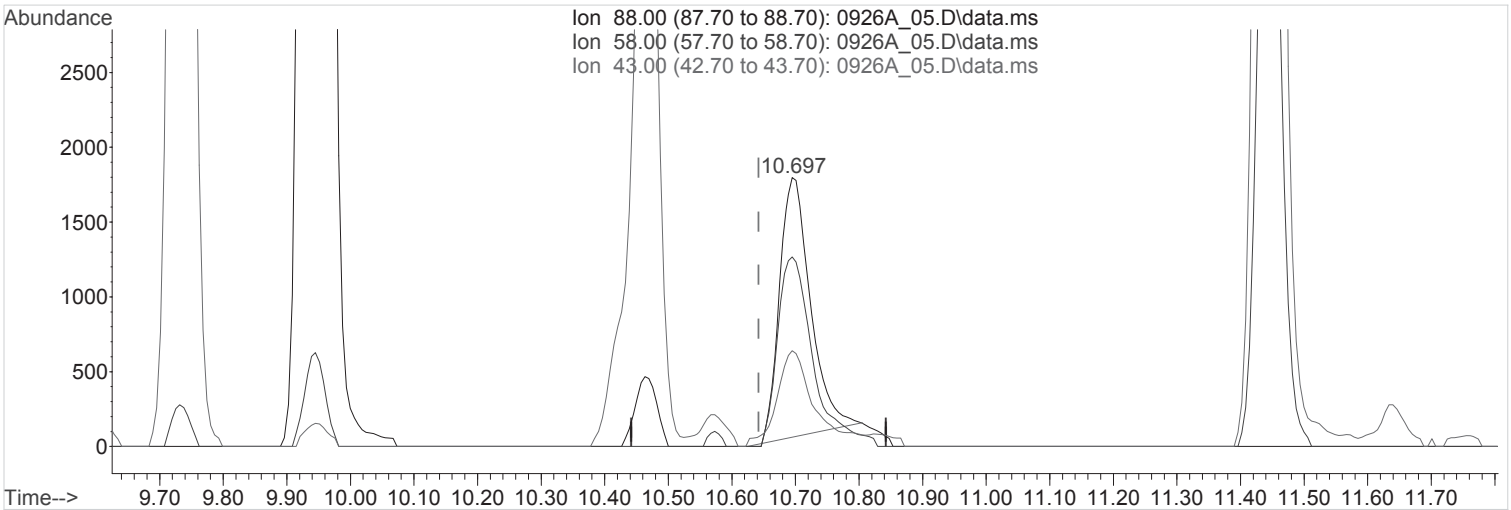
response 34272

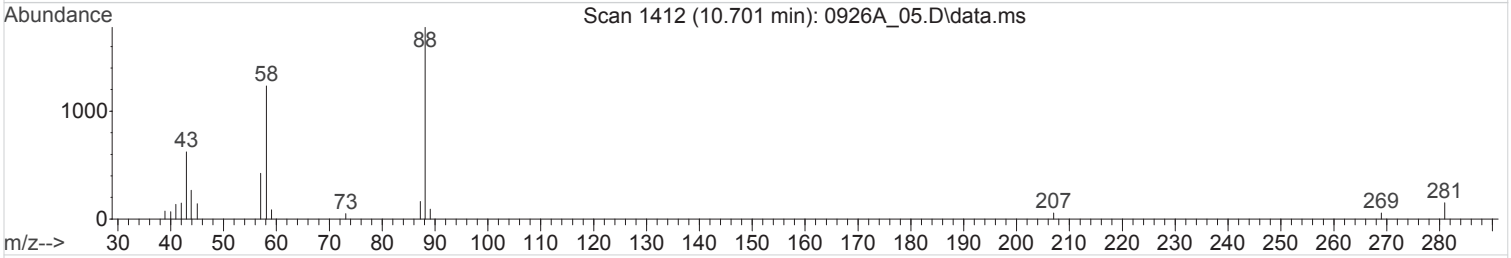
Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

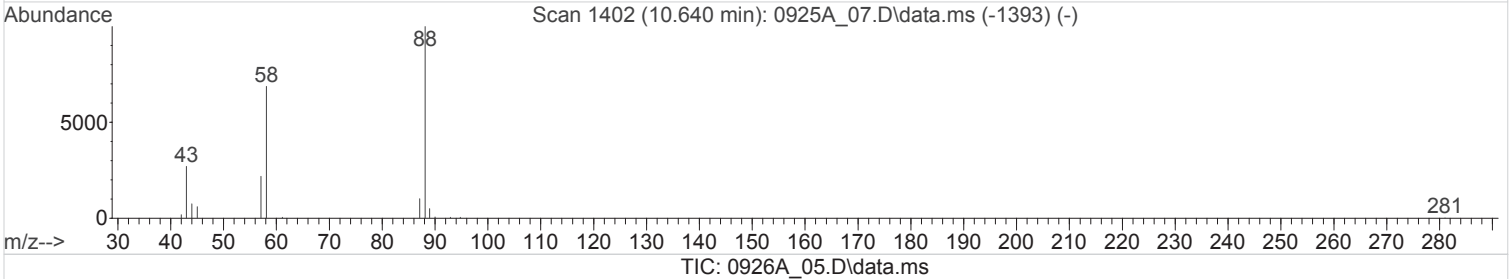
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(46) 1,4-Dioxane (T,M)

10.700min (+0.057) 0.5665901 ppbv

Qvalue = 95

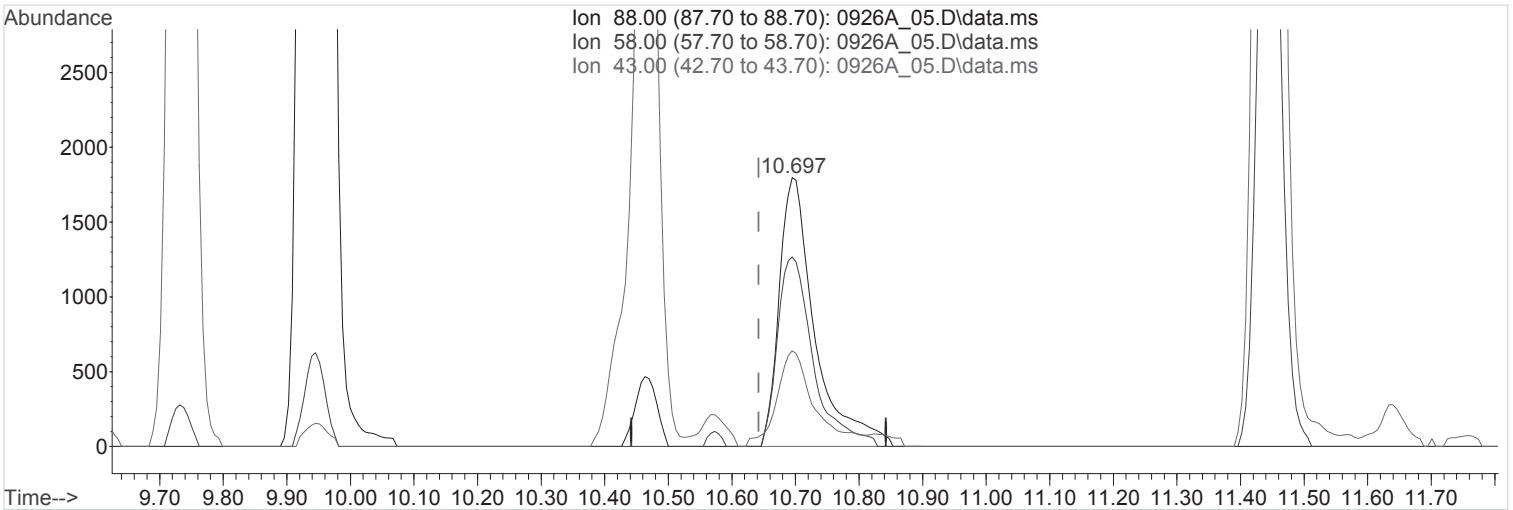
response 58289

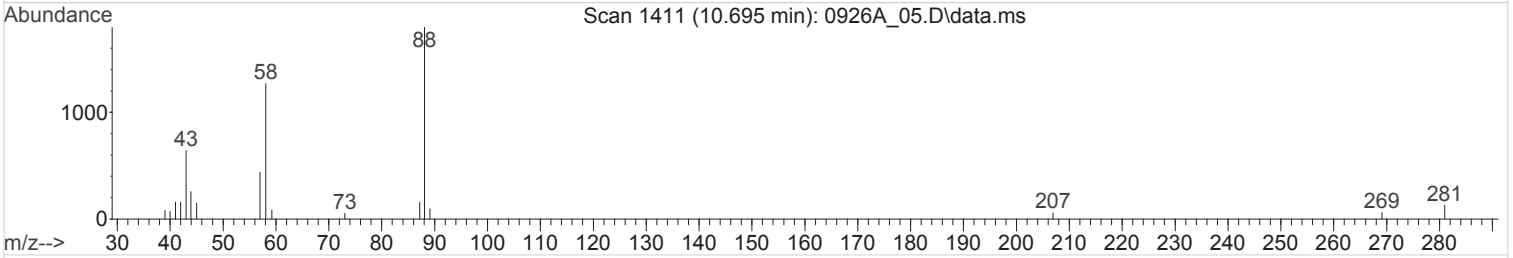
Ion	Exp%	Act%
88.00	100	100
58.00	73.40	77.98
43.00	0.00	0.00
0.00	0.00	0.00

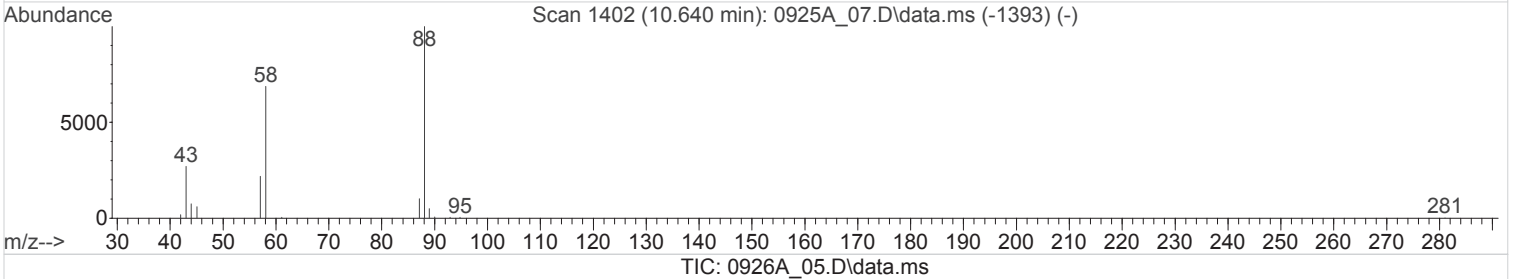
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(46) 1,4-Dioxane (T,M)

10.695min (+0.053) 0.6799724 ppbv m

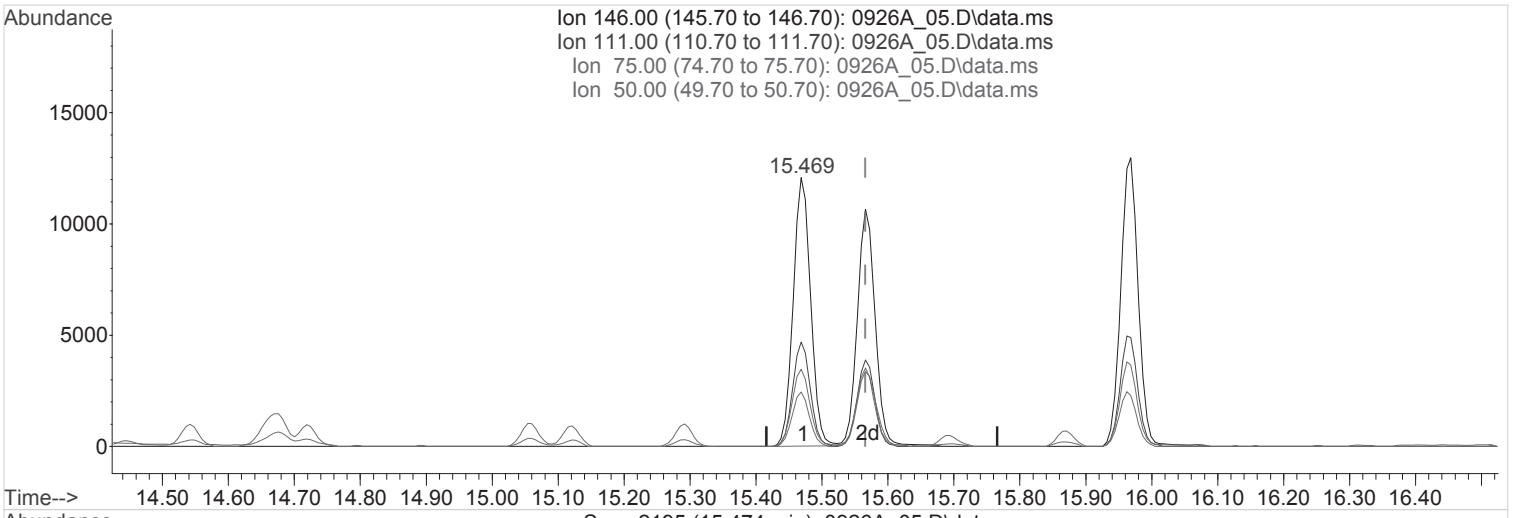
response 69953

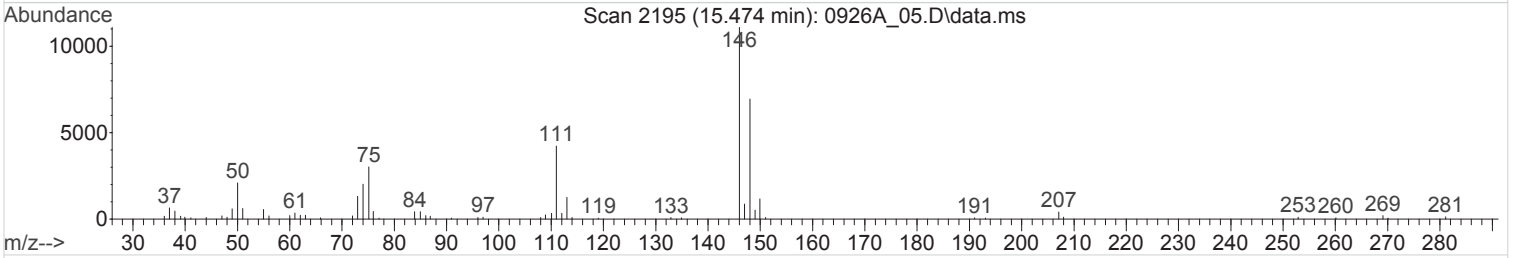
Ion	Exp%	Act%
88.00	100	100
58.00	73.40	64.98
43.00	0.00	0.00
0.00	0.00	0.00

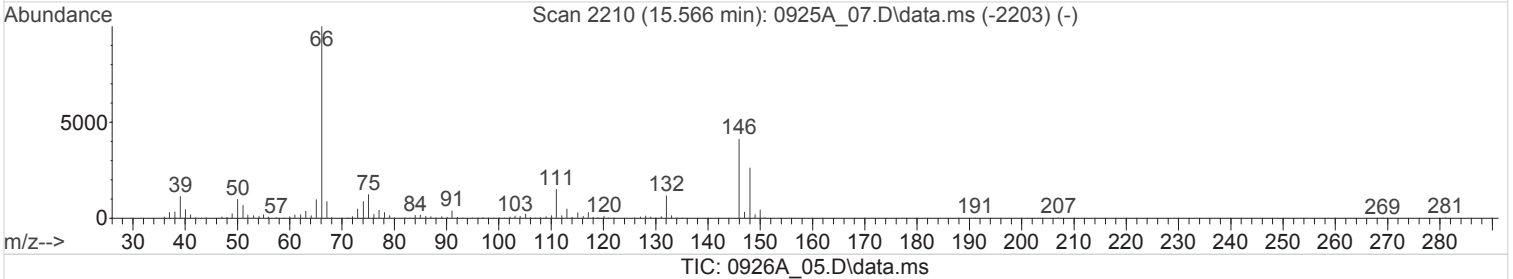
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.472min (-0.094) 0.6468844 ppbv

Qvalue = 98

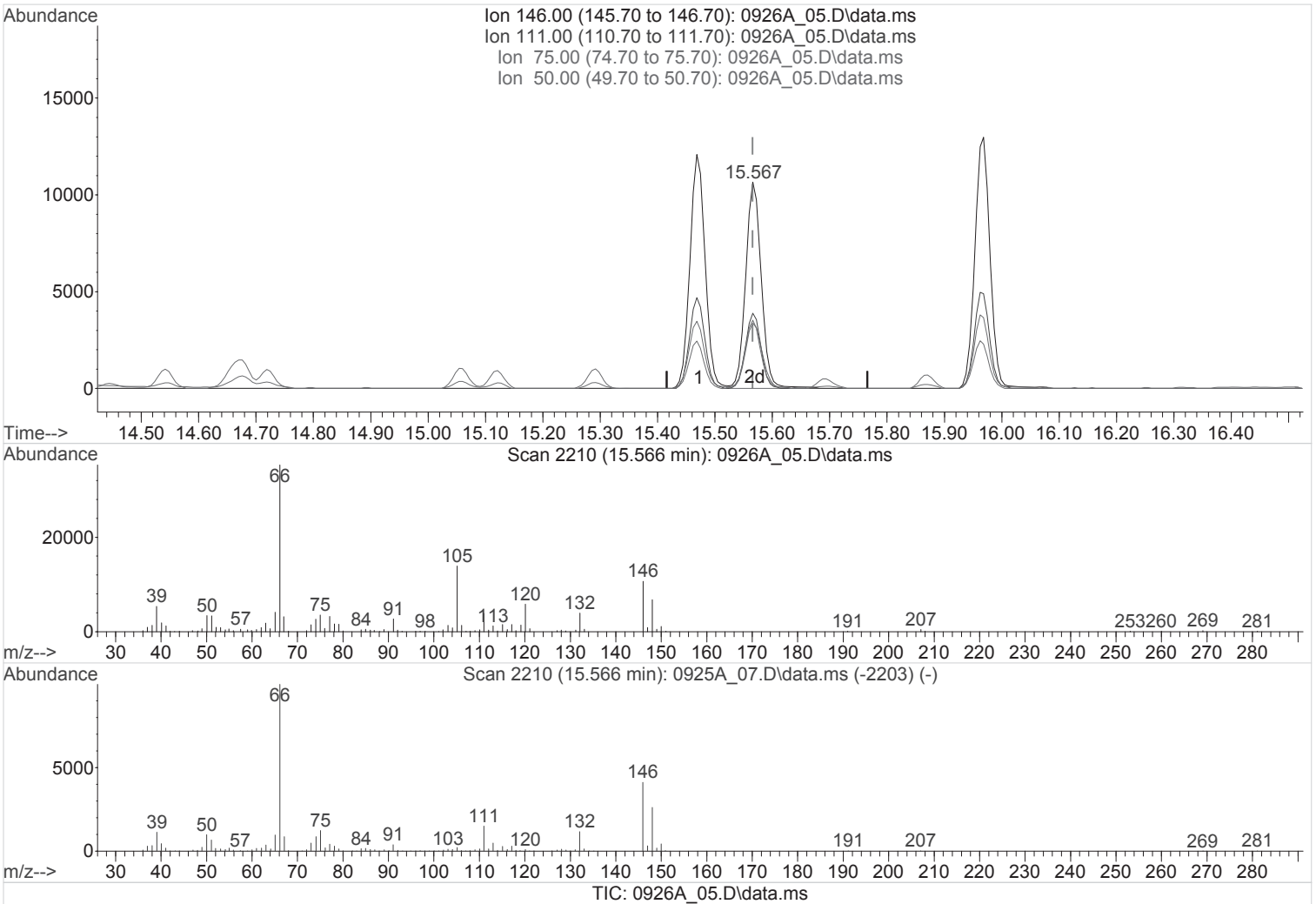
response 220888

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.37
75.00	30.50	27.88
50.00	20.30	20.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (+0.000) 0.5924315 ppbv m

response 202295

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	42.99
75.00	30.50	30.44
50.00	20.30	22.33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06A.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : RL AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:50:50 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.864	130	1214434	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	4901958	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3650336	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2271260	4.0049000	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.12%				
Target Compounds							Qvalue
2) Propene	4.080	41	264537	1.2661241	ppbv		99
3) 1,1-DIFLUOROETHANE	4.091	65	166689	1.2536994	ppbv		99
4) Dichlorodifluoromethane	4.144	85	573264	1.4274243	ppbv		100
5) CHLORODIFLUOROMETHANE	4.179	67	62135	1.2878152	ppbv		94
6) 1,2-Dichlorotetrafluor...	4.381	85	633755	1.2751486	ppbv		100
7) Chloromethane	4.482	50	259859	1.2275636	ppbv		100
8) Vinyl Chloride	4.681	62	288570	1.2721824	ppbv		99
9) 1,3-Butadiene	4.746	39	236550	1.2310745	ppbv		99
10) Bromomethane	5.239	94	212097	1.2297653	ppbv		99
11) Chloroethane	5.400	64	140721	1.1964910	ppbv		98
12) Vinyl Bromide	5.673	106	211699	1.2407853	ppbv		99
13) Trichlorofluoromethane	5.756	101	486791	1.2557696	ppbv		99
14) Ethanol	6.098	45	37718m	1.0773175	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.453	101	447504	1.2423902	ppbv		100
16) 1,1-Dichloroethene	6.478	61	399827	1.2285258	ppbv		99
17) Acetone	6.591	43	803097	1.2850988	ppbv		100
18) 2-Propanol	6.779	45	488343	1.1569120	ppbv	#	74
19) Carbon Disulfide	6.772	76	666890	1.2315585	ppbv		97
20) Allyl Chloride	6.946	41	363266	1.2131661	ppbv	#	45
21) Methylene Chloride	7.113	49	312606	1.2177009	ppbv		99
22) TERT-BUTYL ALCOHOL	7.279	59	584730	1.2484217	ppbv		99
23) Methyl Tert-Butyl Ether	7.438	73	695880	1.2259091	ppbv		98
24) Trans-1,2-Dichloroethene	7.421	96	227025	1.2258369	ppbv		100
25) n-Hexane	7.689	57	409181	1.2387008	ppbv		99
26) 1,1-Dichloroethane	7.935	63	453374	1.2545092	ppbv		100
27) Vinyl Acetate	7.965	43	438082	1.1924257	ppbv		100
28) ETHYL ACETATE	8.636	70	71789	1.2369188	ppbv		97
29) 2-Butanone (MEK)	8.608	72	114951	1.1876850	ppbv		97
30) cis-1,2-Dichloroethene	8.596	61	438800	1.2941805	ppbv		98
31) Tetrahydrofuran	8.931	42	331390	1.2085153	ppbv		100
32) Chloroform	8.923	83	462107	1.2538641	ppbv		97
33) Cyclohexane	9.169	84	348497	1.2566645	ppbv		100
34) 1,1,1-Trichloroethane	9.136	97	440447	1.2701107	ppbv		99
35) Carbon Tetrachloride	9.303	117	407886	1.2516040	ppbv		99
36) 2,2,4-Trimethylpentane	9.544	57	1391075	1.2601730	ppbv		99
38) Benzene	9.535	78	804783	1.2594506	ppbv		99
39) 1,2-Dichloroethane	9.590	62	331200	1.2744357	ppbv		99
40) Heptane	9.735	43	557721	1.2639371	ppbv		99
41) Trichloroethene	10.239	95	315942	1.2692944	ppbv		100
42) TERT-AMYL ETHYL ETHER	10.453	73	249673	1.2417216	ppbv		99
43) METHYL CYCLOHEXANE	10.423	83	445772	1.2637680	ppbv		99
44) 1,2-Dichloropropane	10.508	63	296979	1.2575352	ppbv		98
45) Methyl Methacrylate	10.566	69	268725	1.1668284	ppbv		95
46) 1,4-Dioxane	10.658	88	138056	1.2392998	ppbv	#	99
47) Bromodichloromethane	10.785	83	496500	1.2603067	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06A.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : RL AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

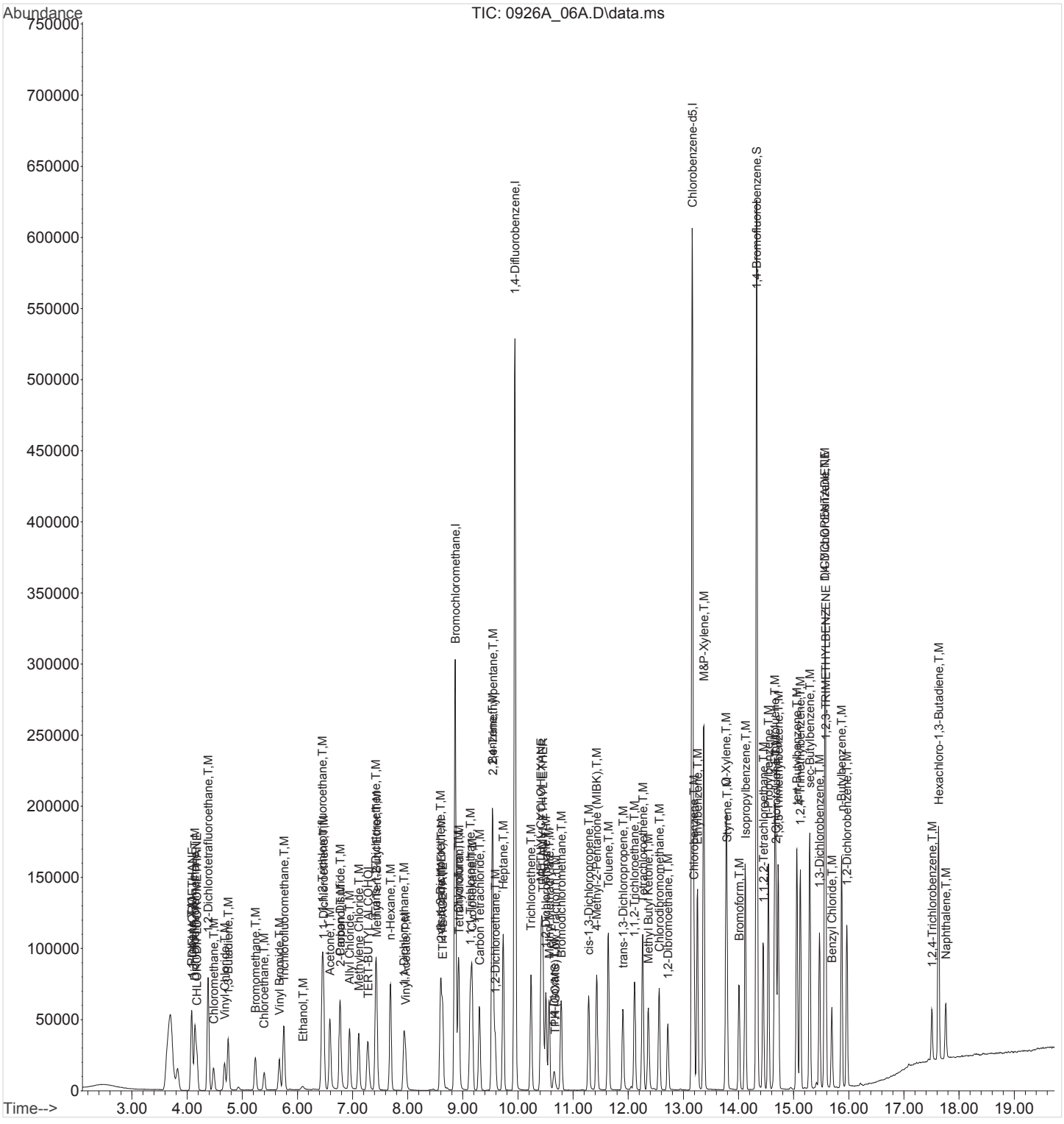
Quant Time: Sep 27 08:50:50 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.285	75	451686	1.2577171	ppbv	98
49) 4-Methyl-2-Pentanone (...	11.429	43	712208	1.2466442	ppbv	100
50) Toluene	11.640	91	968672	1.2709407	ppbv	100
51) trans-1,3-Dichloropropene	11.906	75	351125	1.2071993	ppbv	99
52) 1,1,2-Trichloroethane	12.118	97	294329	1.2690084	ppbv	99
53) Tetrachloroethene	12.266	166	419196	1.3033720	ppbv	99
54) Methyl Butyl Ketone	12.366	43	516911	1.1850197	ppbv	99
55) Chlorodibromomethane	12.564	129	448877	1.2567765	ppbv	99
56) 1,2-Dibromoethane	12.720	107	385346	1.2405225	ppbv	98
57) Chlorobenzene	13.193	112	627377	1.2874113	ppbv	98
59) Ethylbenzene	13.256	91	1108035	1.2600817	ppbv	99
60) M&P-Xylene	13.371	91	1651651	2.4853741	ppbv	100
61) O-Xylene	13.775	91	847388	1.2523053	ppbv	100
62) Styrene	13.792	104	595416	1.2233264	ppbv	98
63) Bromoform	14.011	173	397859	1.2460254	ppbv	99
64) Isopropylbenzene	14.125	105	1180545	1.2693880	ppbv	100
65) 1,1,2,2-Tetrachloroethane	14.449	83	612326	1.2681173	ppbv	100
66) n-Propylbenzene	14.544	91	1411488	1.2789692	ppbv	100
67) 4-Ethyltoluene	14.659	105	1136089	1.2625595	ppbv	99
68) 2-Chlorotoluene	14.679	91	1068379	1.2763005	ppbv	99
70) 1,3,5-Trimethylbenzene	14.722	105	957001	1.2603574	ppbv	100
71) tert-Butylbenzene	15.060	119	945958	1.2881751	ppbv	100
72) 1,2,4-Trimethylbenzene	15.123	105	938174	1.2519445	ppbv	99
73) sec-Butylbenzene	15.293	105	1472924	1.2700425	ppbv	100
74) 1,3-Dichlorobenzene	15.471	146	511254	1.2379423	ppbv	98
75) 1,4-Dichlorobenzene	15.566	146	475558m	1.2096229	ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.581	105	977531	1.2856186	ppbv	100
77) DICYCLOPENTADIENE	15.568	66	1369612	1.2783981	ppbv	100
78) Benzyl Chloride	15.694	91	465831	1.0650954	ppbv	99
79) n-Butylbenzene	15.872	91	1041957	1.2216940	ppbv	99
80) 1,2-Dichlorobenzene	15.968	146	521972	1.2415139	ppbv	100
81) 1,2,4-Trichlorobenzene	17.510	180	129783	0.8061100	ppbv	97
82) Hexachloro-1,3-Butadiene	17.631	225	364065	1.3238390	ppbv	99
83) Naphthalene	17.761	128	342161	0.8559936	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	89003112m	56.9396546	ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06A.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : RL AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

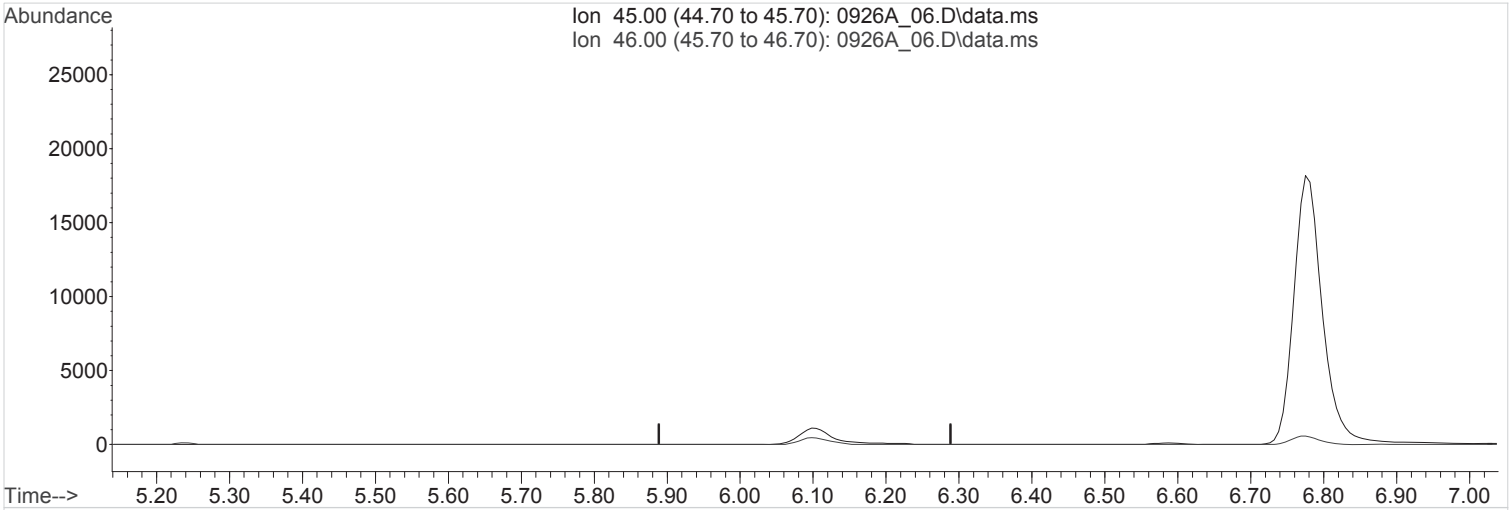
Quant Time: Sep 27 08:50:50 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:41:58 2016
Response via : Initial Calibration

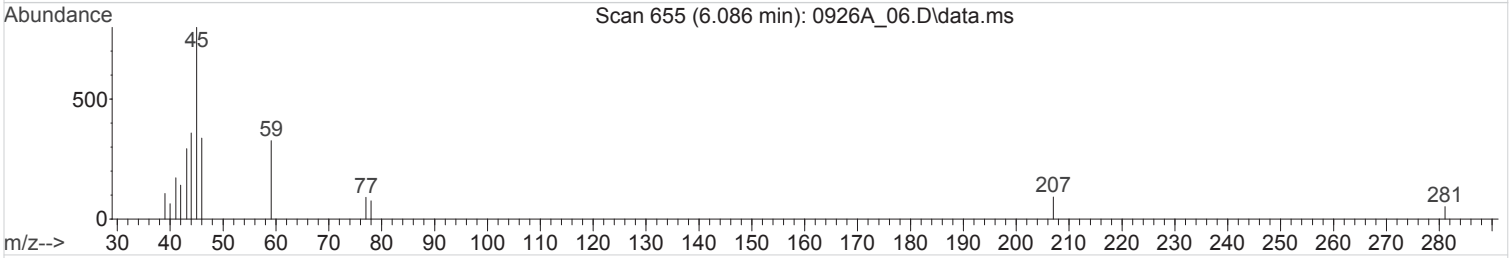


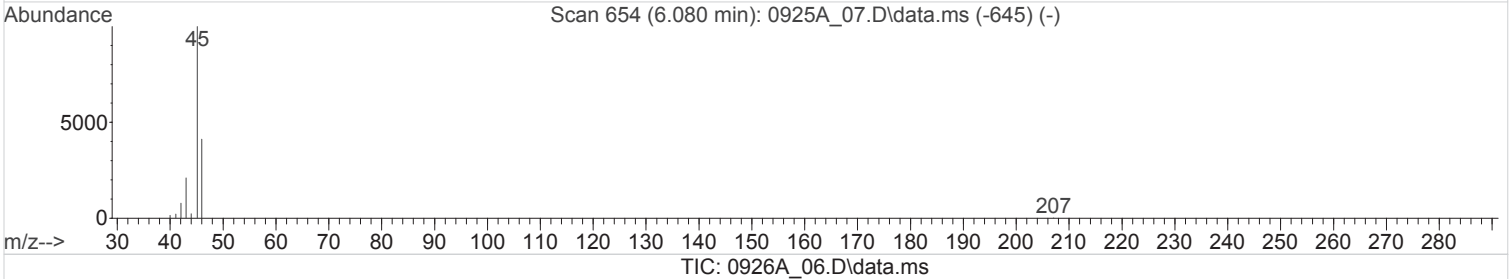
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

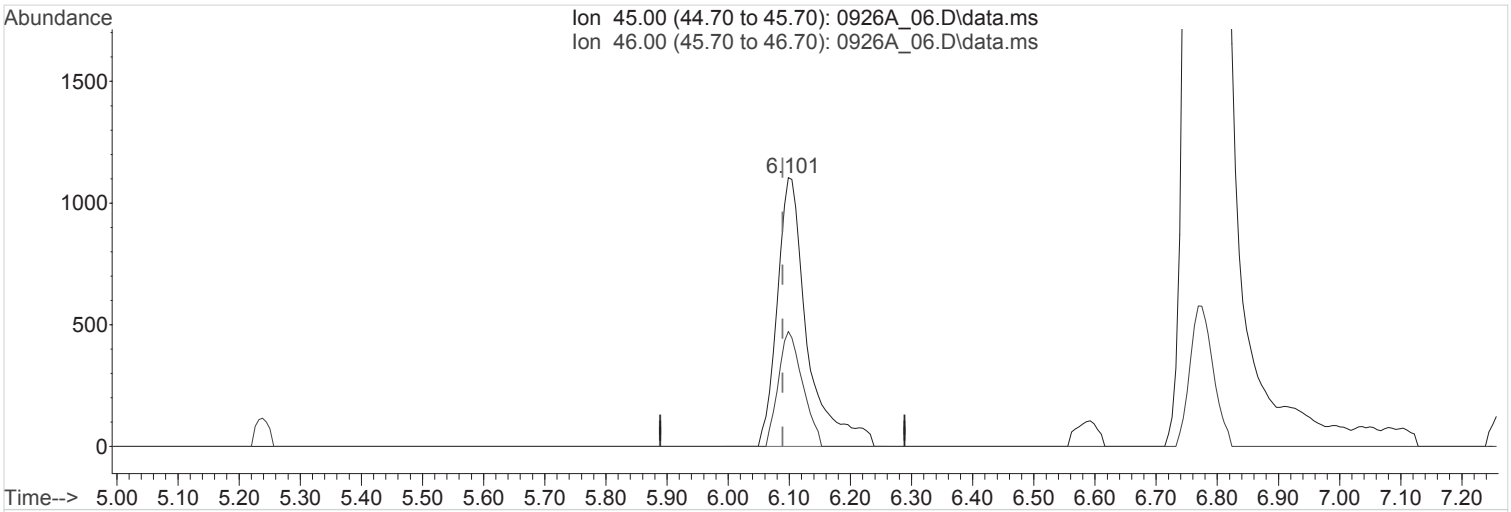
response 0

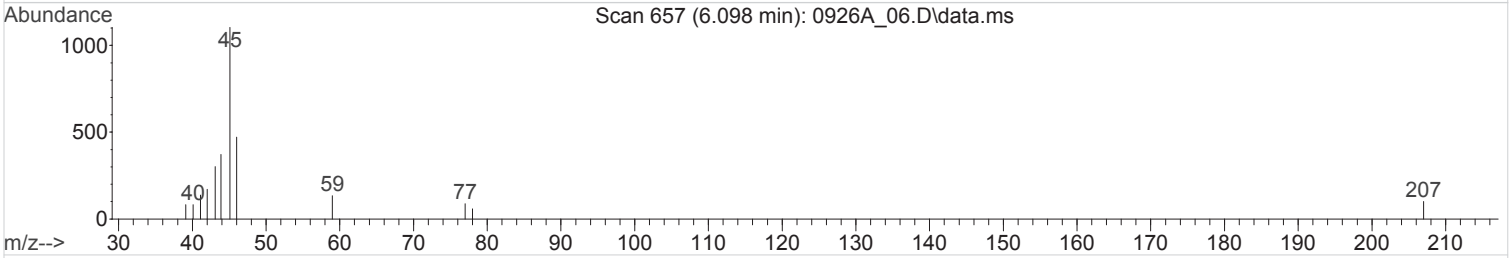
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

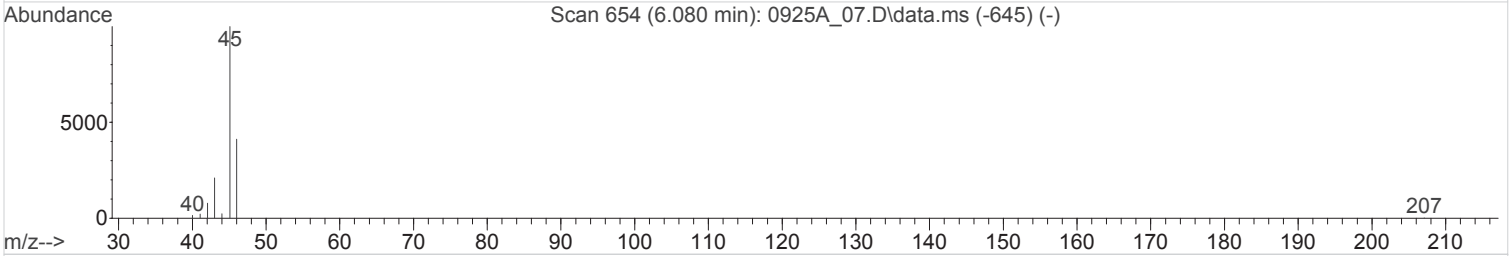
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(14) Ethanol (T,M)

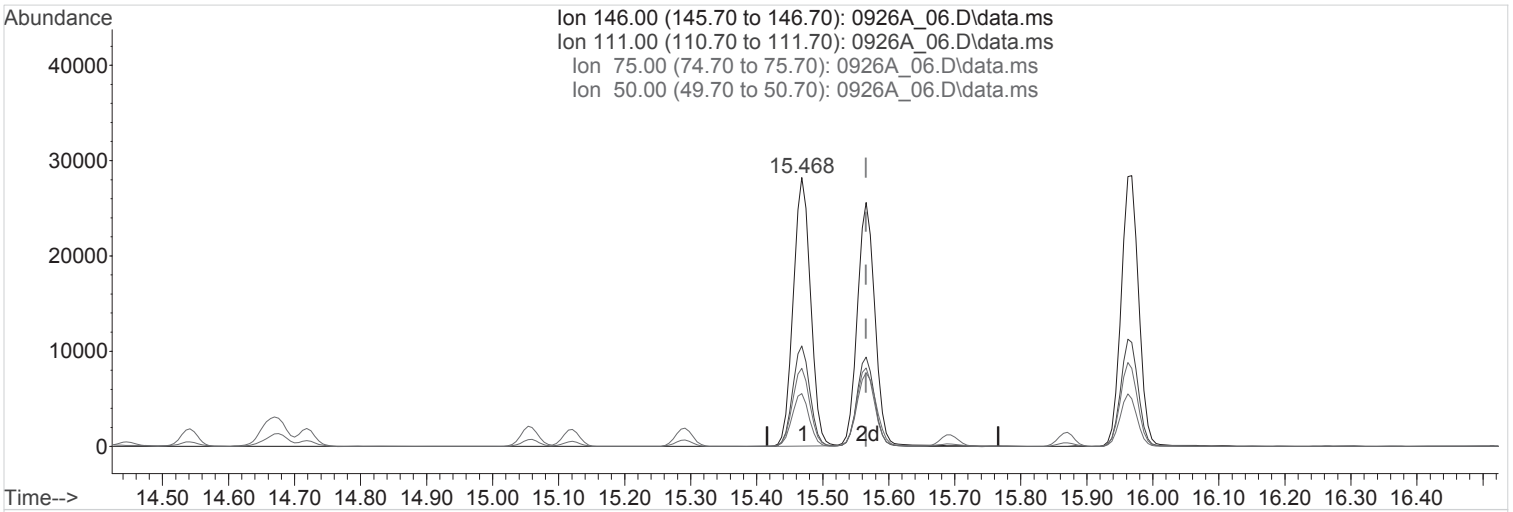
6.098min (+0.009) 1.5024175 ppbv m

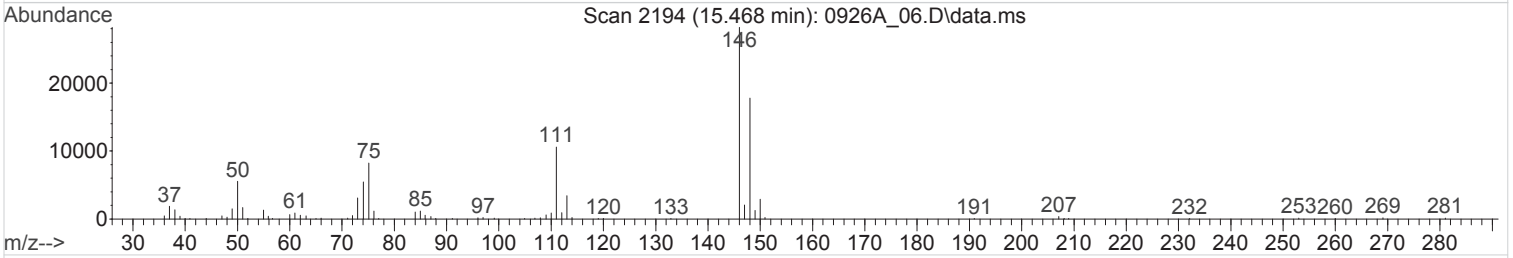
response 37718

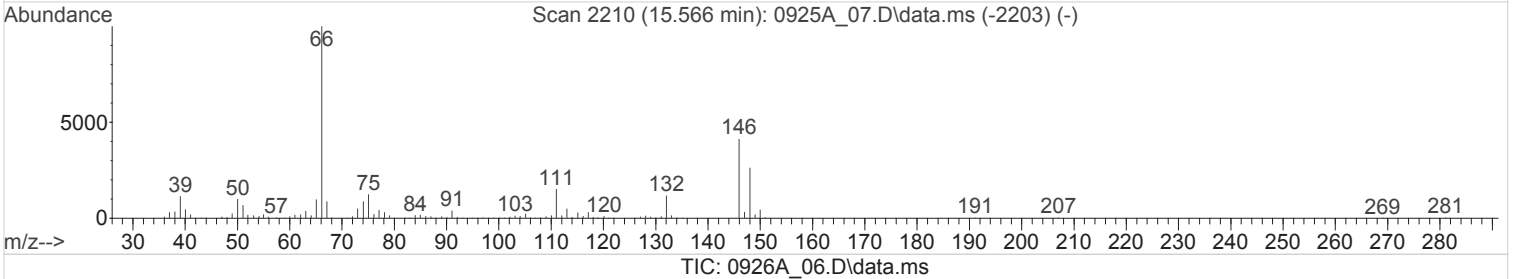
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.471min (-0.095) 1.5681576 ppbv

Qvalue = 98

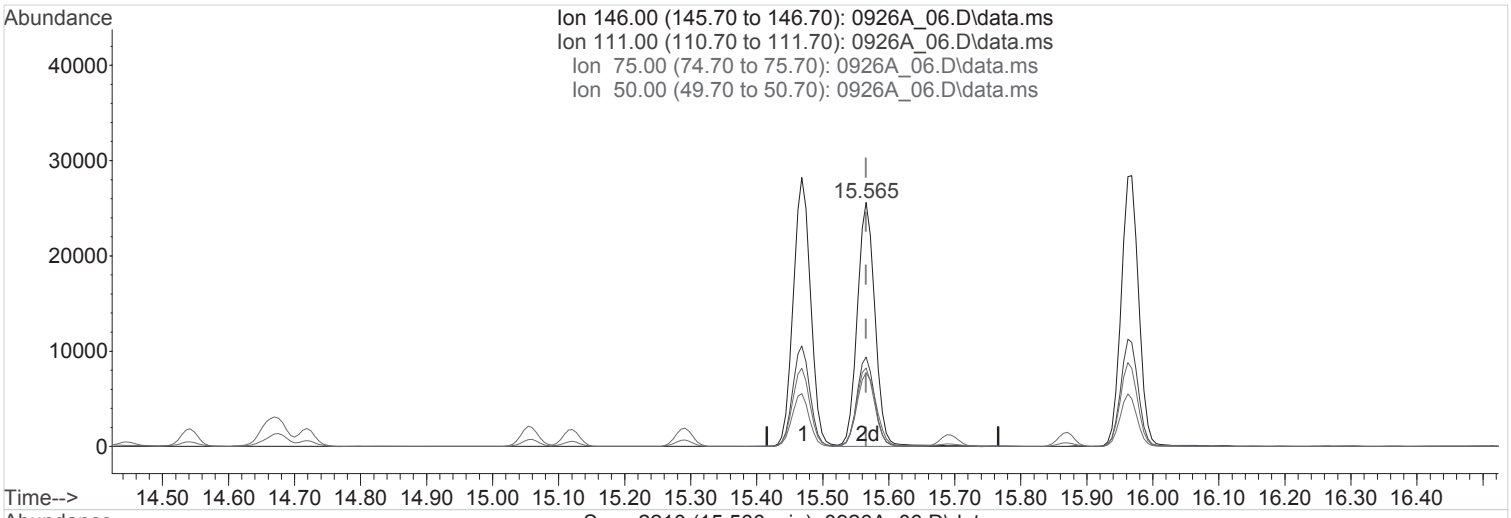
response 513596

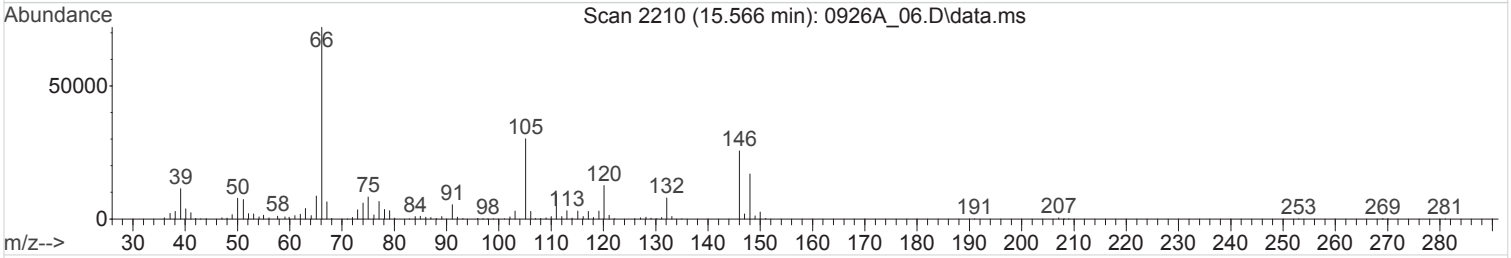
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	37.53
75.00	30.50	29.45
50.00	20.30	19.33

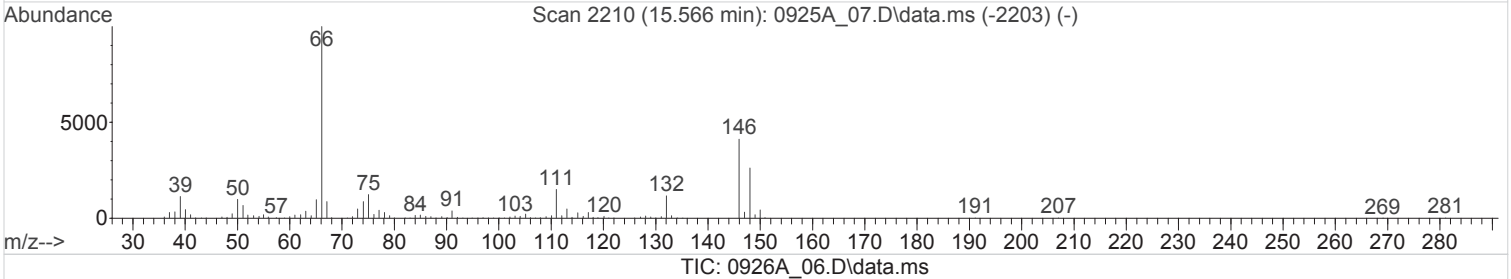
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (-0.000) 1.4546269 ppbv m

response 476413

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	40.46
75.00	30.50	31.75
50.00	20.30	20.84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.865	130	1376576	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	5585330	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3950476	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2194135	3.4266280	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 85.67%				
Target Compounds						Qvalue	
2) Propene	4.093	41	32523m	0.1268063	ppbv		
3) 1,1-DIFLUOROETHANE	4.105	65	19727m	0.1252182	ppbv		
4) Dichlorodifluoromethane	4.159	85	65783	0.1241894	ppbv		98
5) CHLORODIFLUOROMETHANE	4.190	67	7652m	0.1321466	ppbv		
6) 1,2-Dichlorotetrafluor...	4.393	85	75279	0.1228581	ppbv	#	88
7) Chloromethane	4.495	50	32982m	0.1280066	ppbv		
8) Vinyl Chloride	4.690	62	34091m	0.1225522	ppbv		
9) 1,3-Butadiene	4.757	39	29588m	0.1262531	ppbv		
10) Bromomethane	5.245	94	27700m	0.1334006	ppbv		
11) Chloroethane	5.409	64	17664m	0.1213180	ppbv		
12) Vinyl Bromide	5.678	106	26081m	0.1252657	ppbv		
13) Trichlorofluoromethane	5.763	101	57554	0.1217026	ppbv		98
14) Ethanol	6.135	45	4470m	0.1173046	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.459	101	57023	0.1335939	ppbv	#	75
16) 1,1-Dichloroethene	6.485	61	48345	0.1258656	ppbv	#	70
17) Acetone	6.625	43	99533	0.1237360	ppbv		97
18) 2-Propanol	6.828	45	62243	0.1277714	ppbv	#	74
19) Carbon Disulfide	6.779	76	89025	0.1391677	ppbv		97
20) Allyl Chloride	6.953	41	43230	0.1217481	ppbv	#	45
21) Methylene Chloride	7.120	49	56558	0.1990622	ppbv	#	84
22) TERT-BUTYL ALCOHOL	7.334	59	85517	0.1559928	ppbv		99
23) Methyl Tert-Butyl Ether	7.477	73	101234	0.1518651	ppbv	#	51
24) Trans-1,2-Dichloroethene	7.427	96	32512m	0.1492030	ppbv		
25) n-Hexane	7.692	57	52739	0.1358371	ppbv		96
26) 1,1-Dichloroethane	7.938	63	57144	0.1334938	ppbv	#	69
27) Vinyl Acetate	7.982	43	58483m	0.1355872	ppbv		
28) ETHYL ACETATE	8.659	70	9174m	0.1331088	ppbv		
29) 2-Butanone (MEK)	8.628	72	15596m	0.1347453	ppbv		
30) cis-1,2-Dichloroethene	8.598	61	46695m	0.1103501	ppbv		
31) Tetrahydrofuran	8.964	42	42178	0.1298177	ppbv	#	61
32) Chloroform	8.924	83	57213	0.1306429	ppbv		97
33) Cyclohexane	9.170	84	43677	0.1320727	ppbv		97
34) 1,1,1-Trichloroethane	9.137	97	52002	0.1252236	ppbv		98
35) Carbon Tetrachloride	9.304	117	50399	0.1274427	ppbv	#	86
36) 2,2,4-Trimethylpentane	9.545	57	166464	0.1253289	ppbv	#	88
38) Benzene	9.537	78	104718	0.1375373	ppbv	#	81
39) 1,2-Dichloroethane	9.592	62	39207	0.1268310	ppbv	#	42
40) Heptane	9.735	43	64415	0.1229740	ppbv	#	62
41) Trichloroethene	10.240	95	40194	0.1368700	ppbv		95
42) TERT-AMYL ETHYL ETHER	10.469	73	39867m	0.1724115	ppbv		
43) METHYL CYCLOHEXANE	10.423	83	54907	0.1310164	ppbv	#	51
44) 1,2-Dichloropropane	10.506	63	35512m	0.1254391	ppbv		
45) Methyl Methacrylate	10.577	69	47895	0.1802907	ppbv		96
46) 1,4-Dioxane	10.719	88	18034m	0.1378051	ppbv		
47) Bromodichloromethane	10.786	83	56976	0.1199865	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

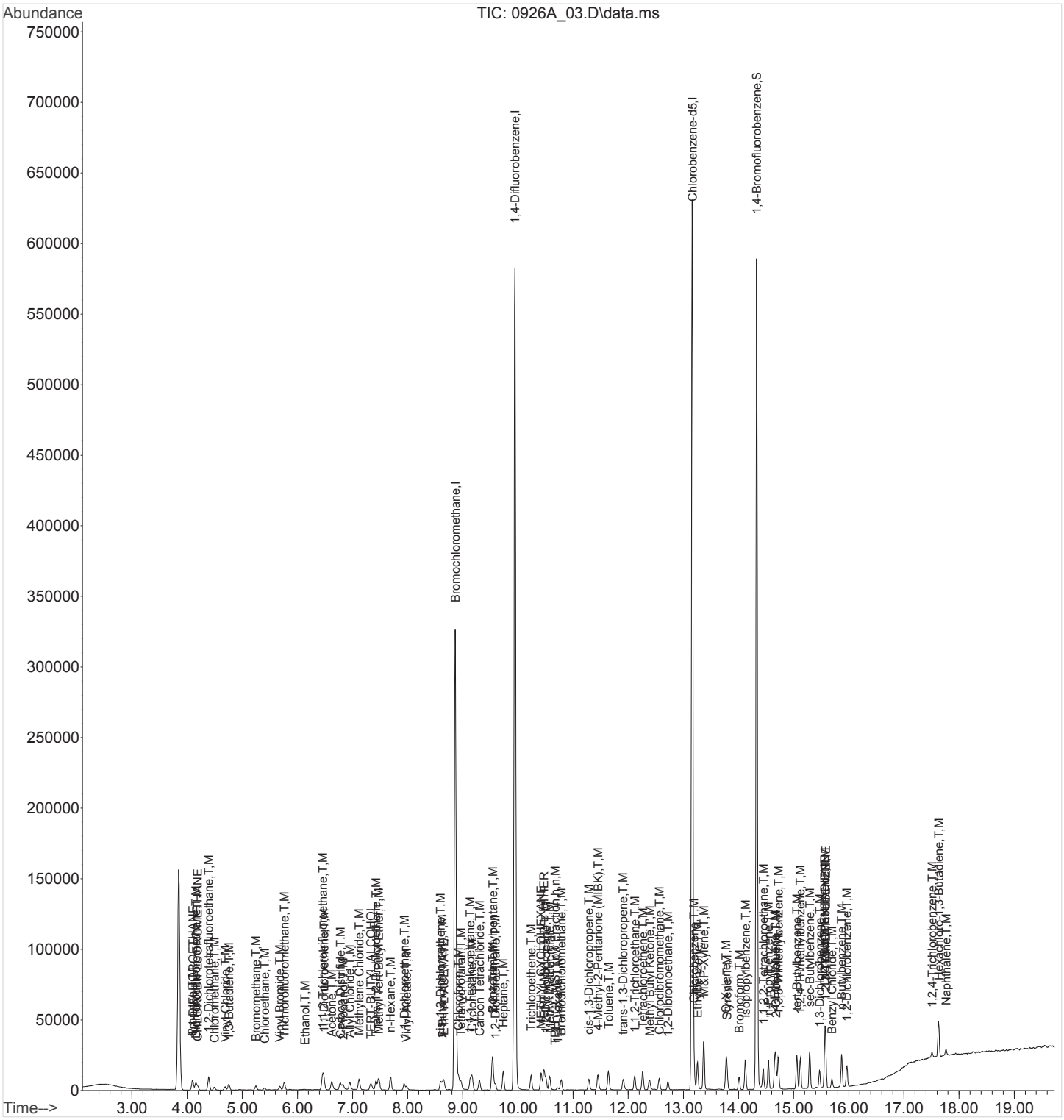
Quant Time: Sep 27 07:48:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.288	75	58148	0.1345000 ppbv #	87
49) 4-Methyl-2-Pentanone (...	11.452	43	99747	0.1484031 ppbv #	89
50) Toluene	11.643	91	120330	0.1297378 ppbv	99
51) trans-1,3-Dichloropropene	11.910	75	46193	0.1311012 ppbv #	84
52) 1,1,2-Trichloroethane	12.119	97	38592	0.1373149 ppbv #	63
53) Tetrachloroethene	12.266	166	52200	0.1334944 ppbv #	75
54) Methyl Butyl Ketone	12.387	43	67161	0.1263858 ppbv #	91
55) Chlorodibromomethane	12.564	129	52901	0.1200244 ppbv	99
56) 1,2-Dibromoethane	12.722	107	50033	0.1312701 ppbv	99
57) Chlorobenzene	13.193	112	82247	0.1374379 ppbv #	62
59) Ethylbenzene	13.257	91	149060	0.1493976 ppbv #	44
60) M&P-Xylene	13.372	91	220748	0.2966281 ppbv	99
61) O-Xylene	13.776	91	119966	0.1566521 ppbv	98
62) Styrene	13.794	104	71790	0.1254410 ppbv	99
63) Bromoform	14.012	173	46334	0.1220123 ppbv	99
64) Isopropylbenzene	14.125	105	159402	0.1497664 ppbv #	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	80511	0.1435477 ppbv	99
66) n-Propylbenzene	14.544	91	176390	0.1367532 ppbv	95
67) 4-Ethyltoluene	14.660	105	151329	0.1442667 ppbv #	46
68) 2-Chlorotoluene	14.680	91	134237	0.1390881 ppbv	99
70) 1,3,5-Trimethylbenzene	14.723	105	140684	0.1624556 ppbv	99
71) tert-Butylbenzene	15.060	119	132391	0.1582072 ppbv	96
72) 1,2,4-Trimethylbenzene	15.124	105	137159	0.1584335 ppbv	100
73) sec-Butylbenzene	15.293	105	217491	0.1639767 ppbv	98
74) 1,3-Dichlorobenzene	15.473	146	62583	0.1230910 ppbv #	88
75) 1,4-Dichlorobenzene	15.570	146	55014	0.1104448 ppbv #	58
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	140924	0.1628710 ppbv	99
77) DICYCLOPENTADIENE	15.568	66	182569	0.1492664 ppbv #	71
78) Benzyl Chloride	15.697	91	55078	0.0957375 ppbv #	56
79) n-Butylbenzene	15.873	91	148754	0.1482833 ppbv	99
80) 1,2-Dichlorobenzene	15.969	146	71123	0.1398226 ppbv	98
81) 1,2,4-Trichlorobenzene	17.511	180	14992m	0.0868374 ppbv	
82) Hexachloro-1,3-Butadiene	17.631	225	56271	0.1734761 ppbv #	69
83) Naphthalene	17.764	128	46019	0.1019791 ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	13709793m	8.1293839 ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

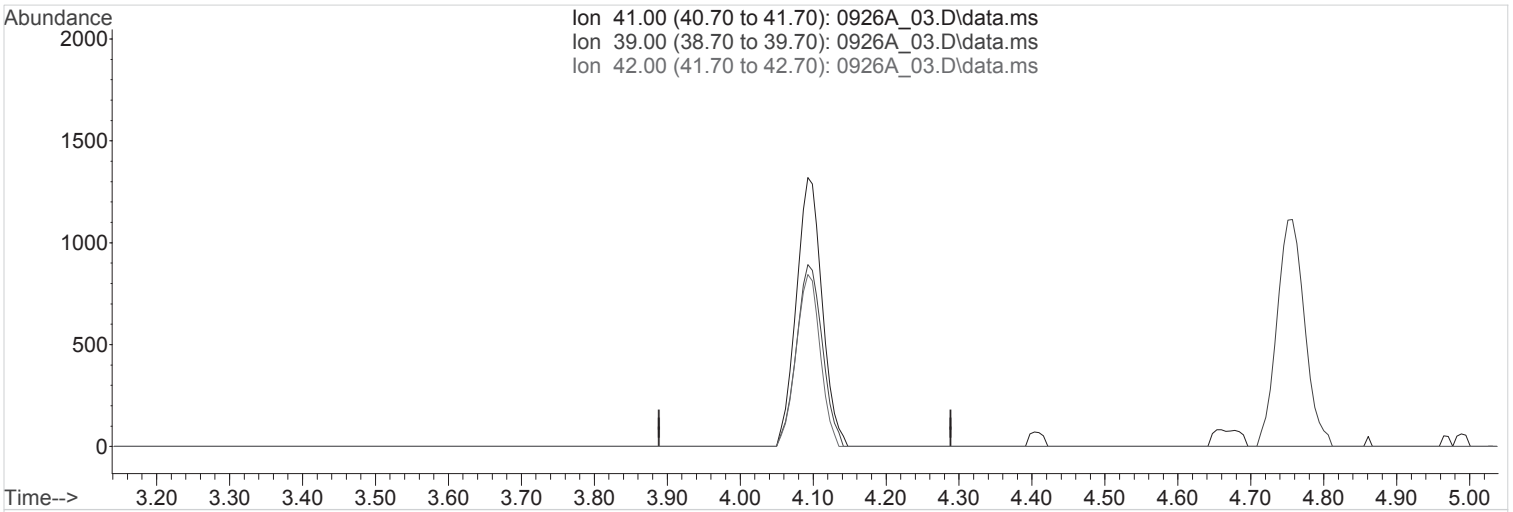
Quant Time: Sep 27 07:48:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration

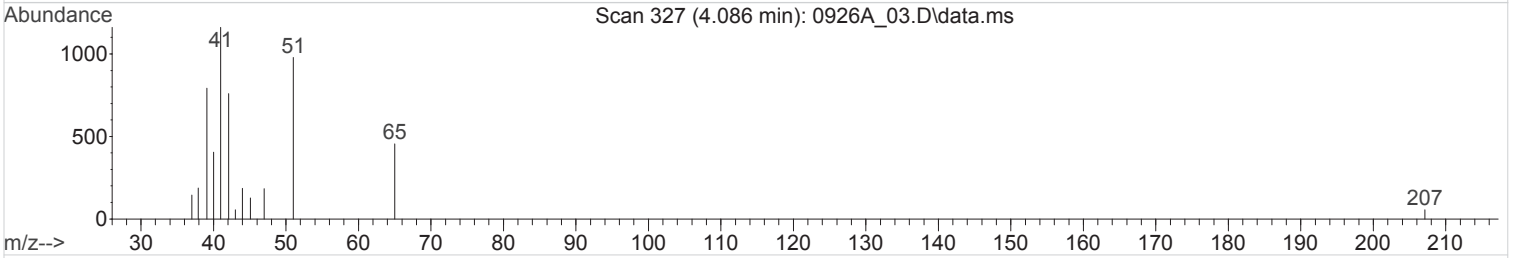


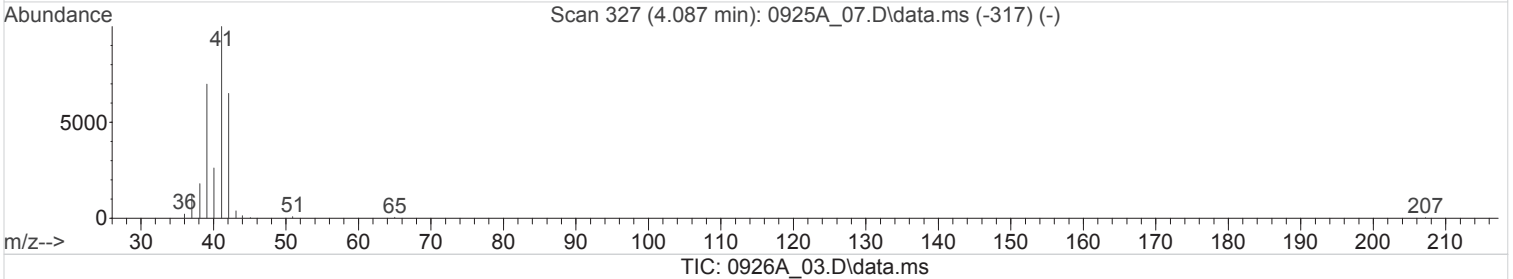
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(2) Propene (T,M)

4.089min (-4.089) 0.0000000 ppbv

Qvalue = 0

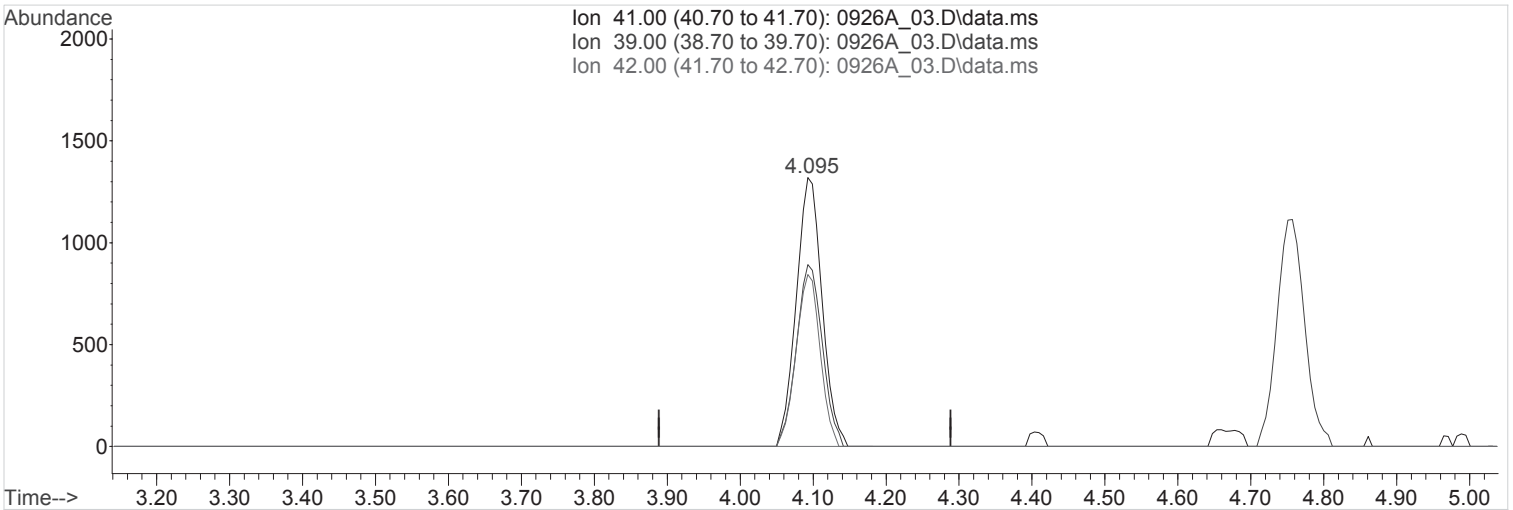
response 0

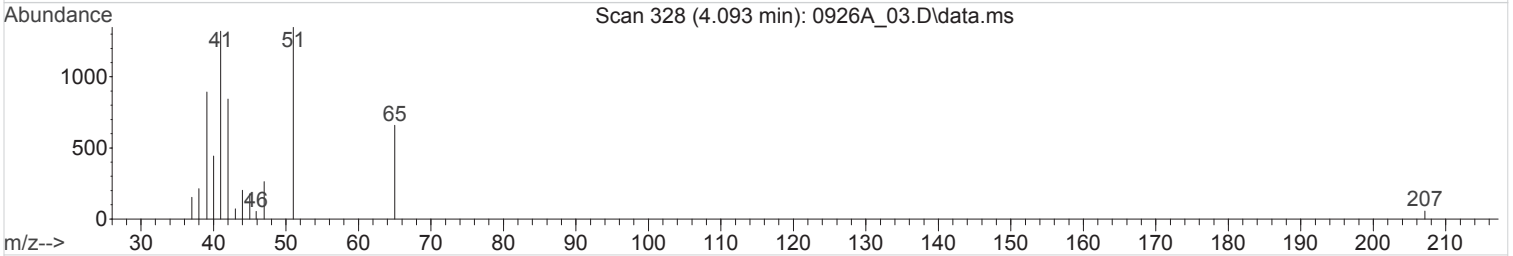
Ion	Exp%	Act%
41.00	100	0.00
39.00	70.60	0.00#
42.00	65.30	0.00#
0.00	0.00	0.00

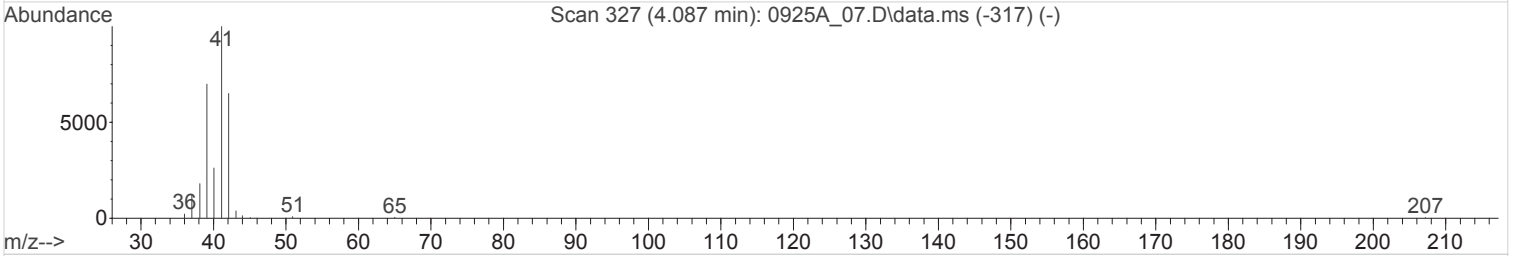
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(2) Propene (T,M)

4.093min (+0.004) 0.1268063 ppbv m

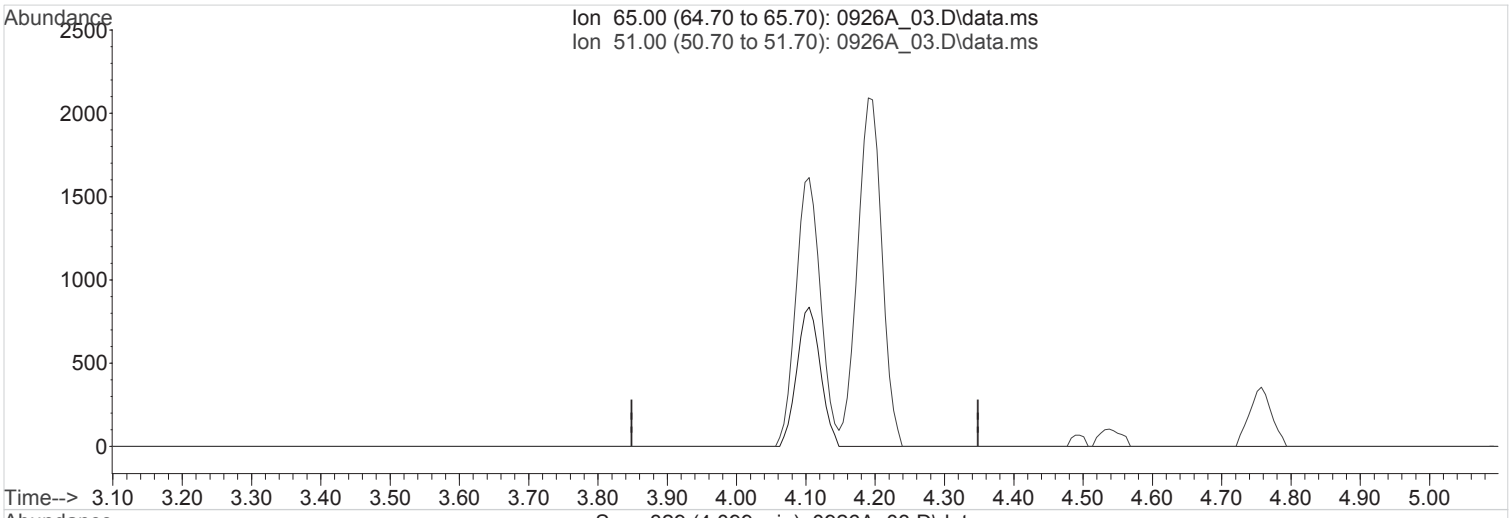
response 32523

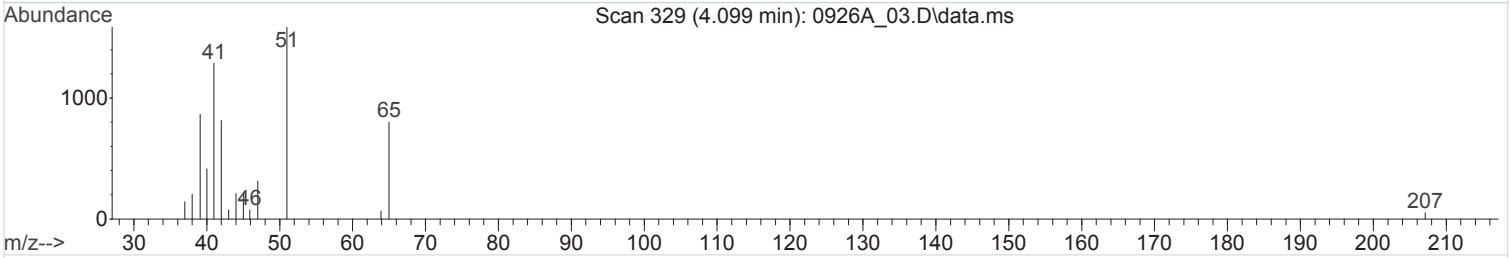
Ion	Exp%	Act%
41.00	100	100
39.00	70.60	0.00#
42.00	65.30	0.00#
0.00	0.00	0.00

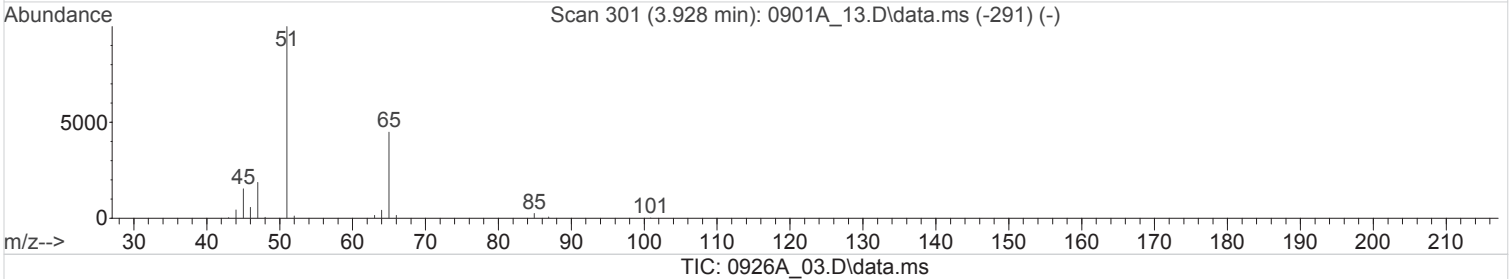
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.099min (-4.099) 0.0000000 ppbv

Qvalue = 0

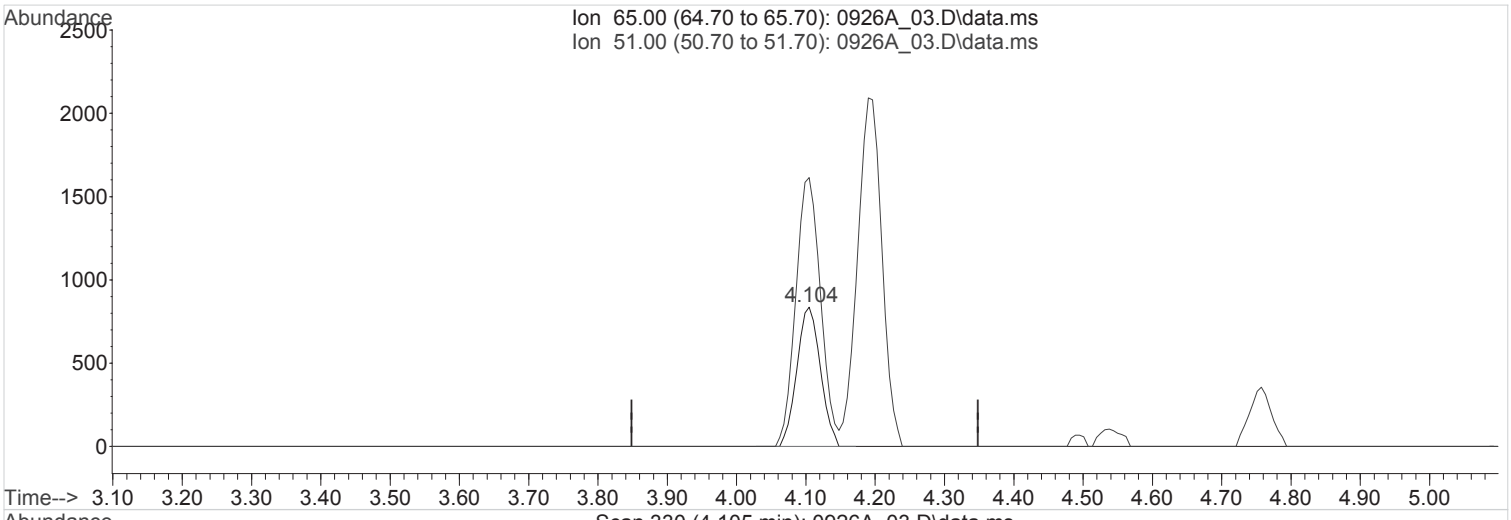
response 0

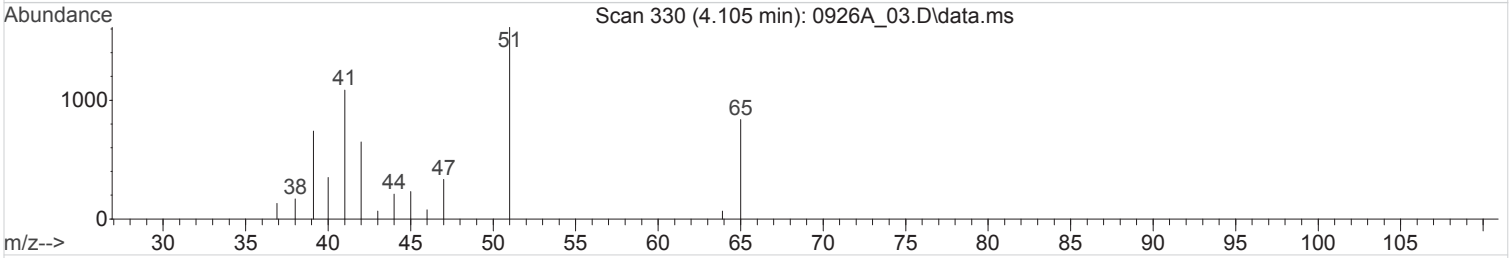
Ion	Exp%	Act%
65.00	100	0.00
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

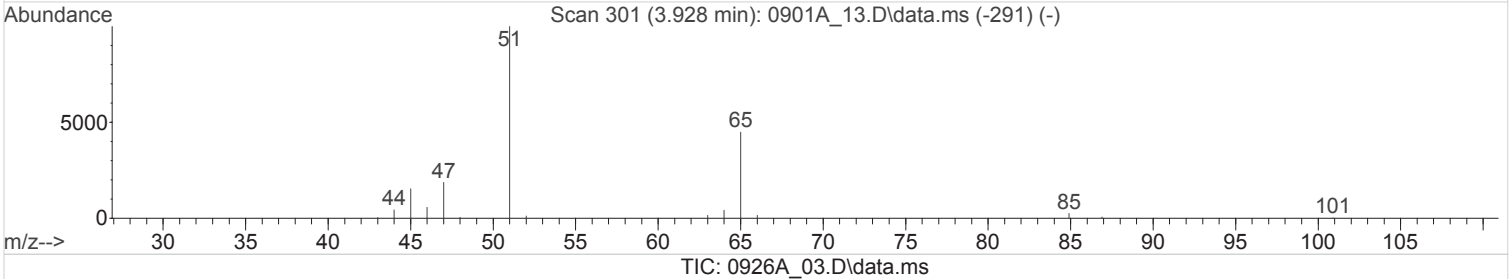
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.105min (+0.006) 0.1252182 ppbv m

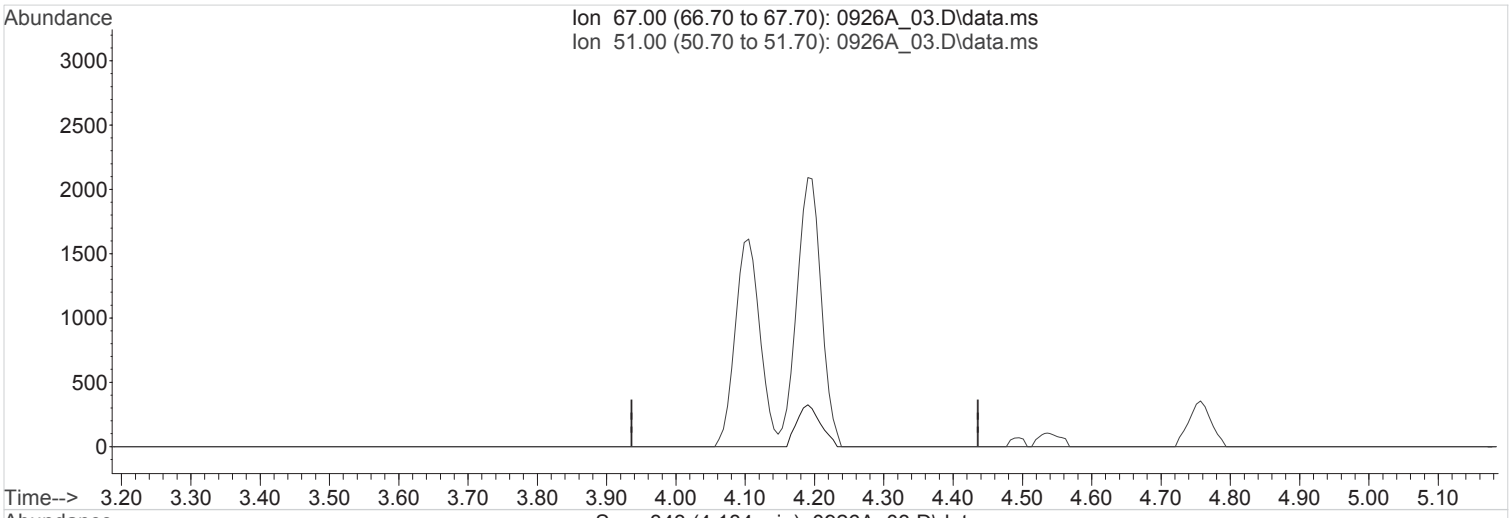
response 19727

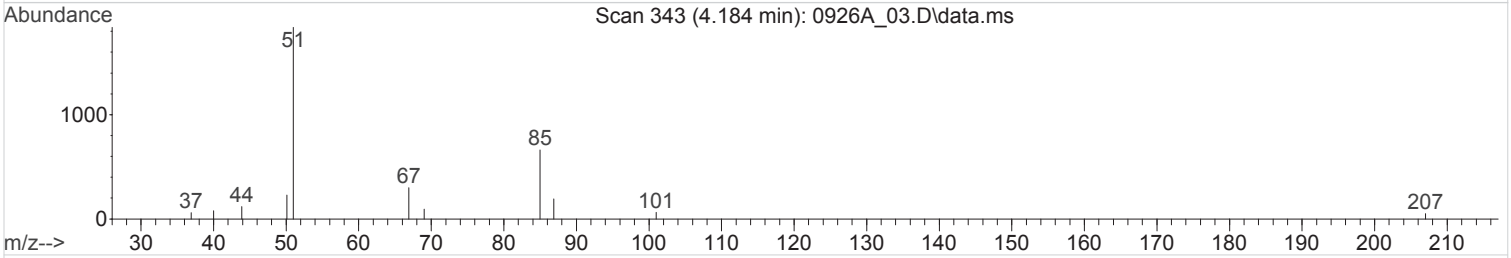
Ion	Exp%	Act%
65.00	100	100
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

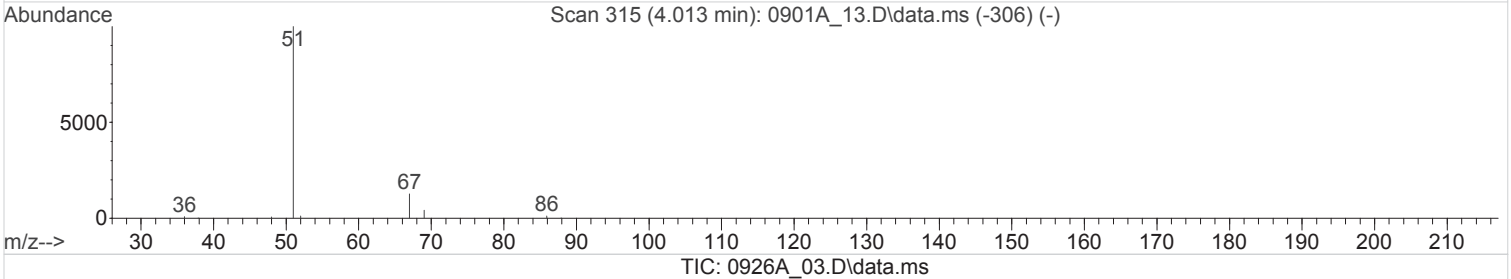
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

Qvalue = 0

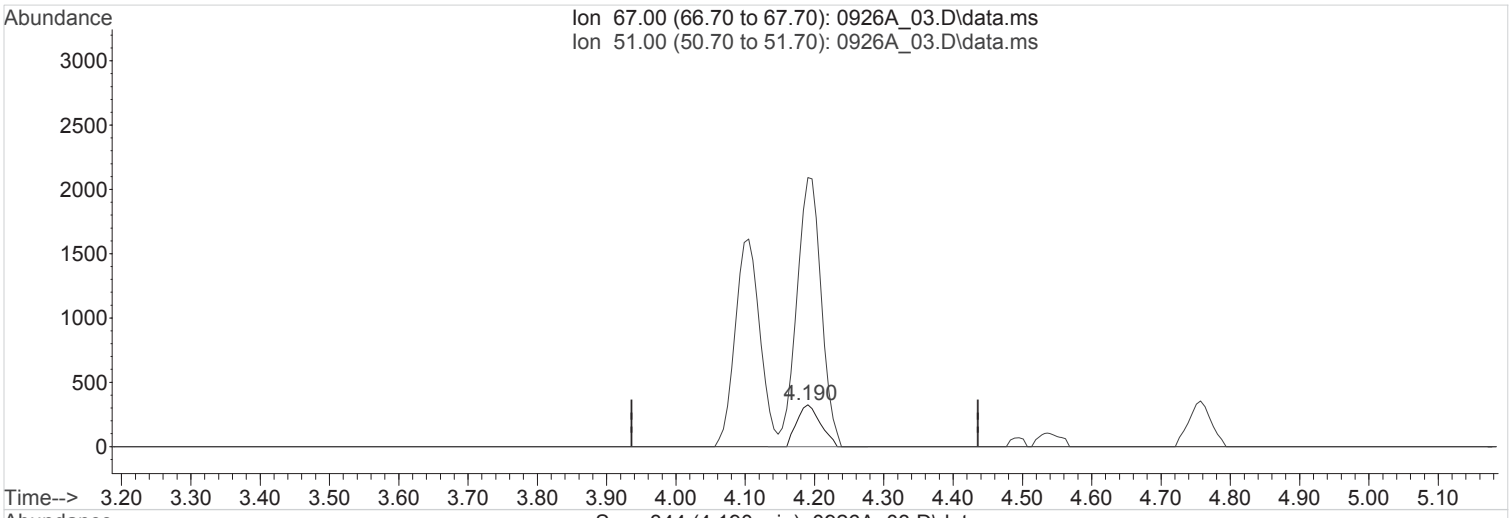
response 0

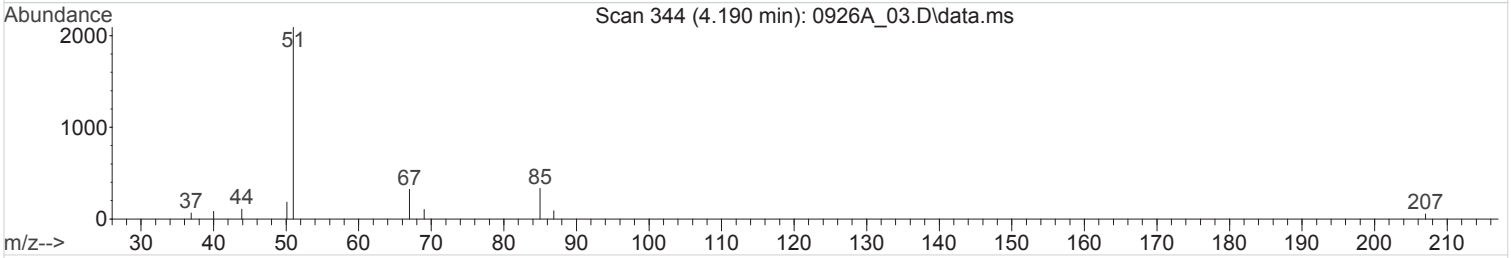
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

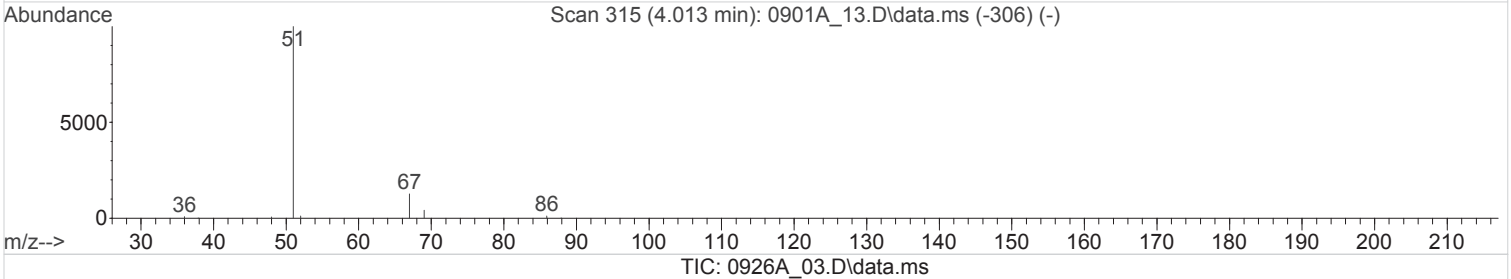
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.190min (+0.004) 0.1321466 ppbv m

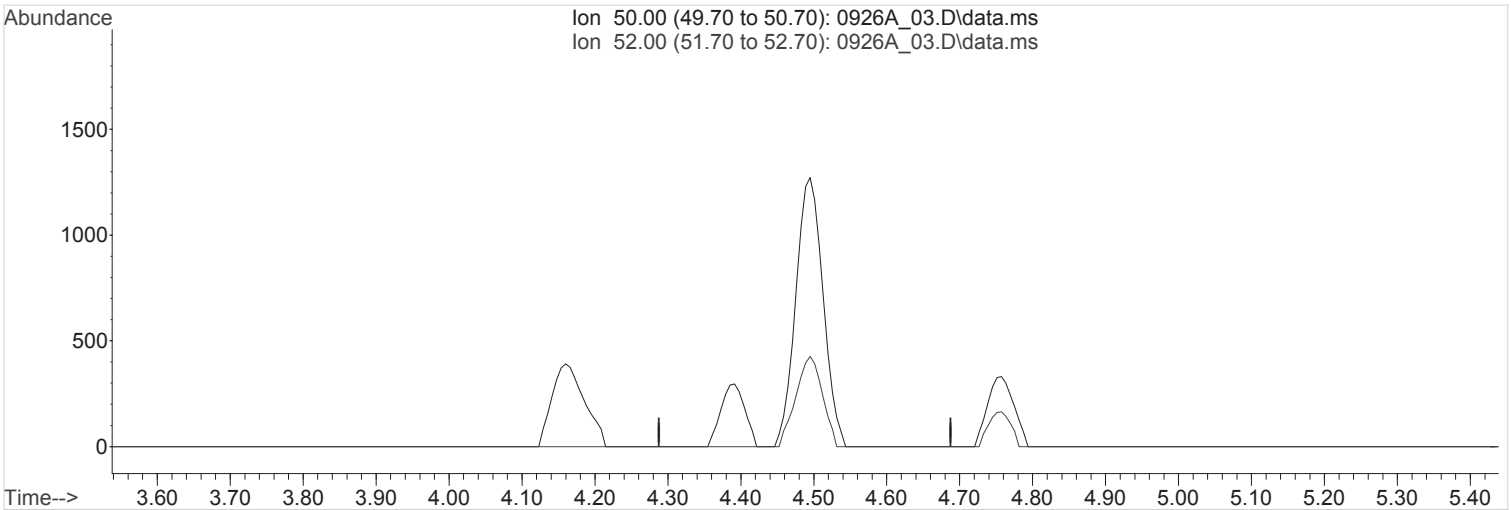
response 7652

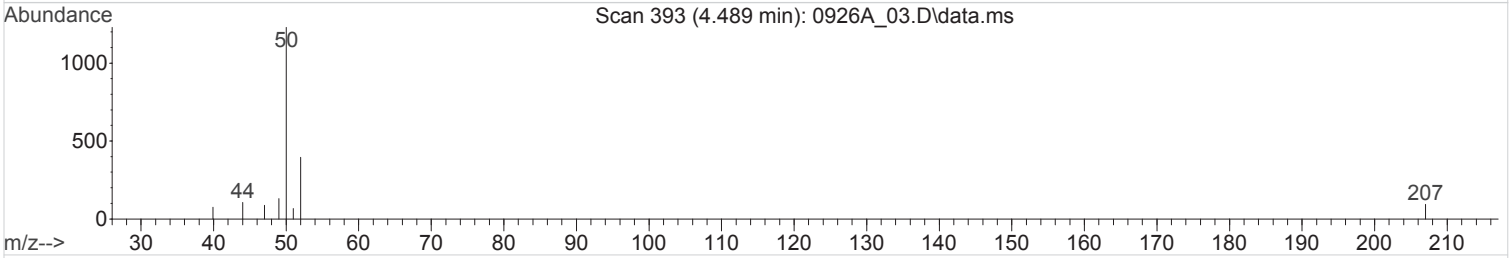
Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

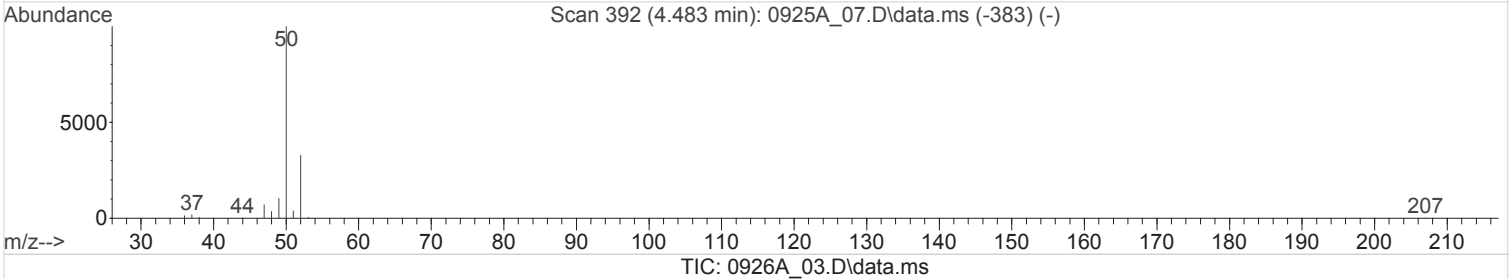
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(7) Chloromethane (T,M)

4.488min (-4.488) 0.0000000 ppbv

Qvalue = 0

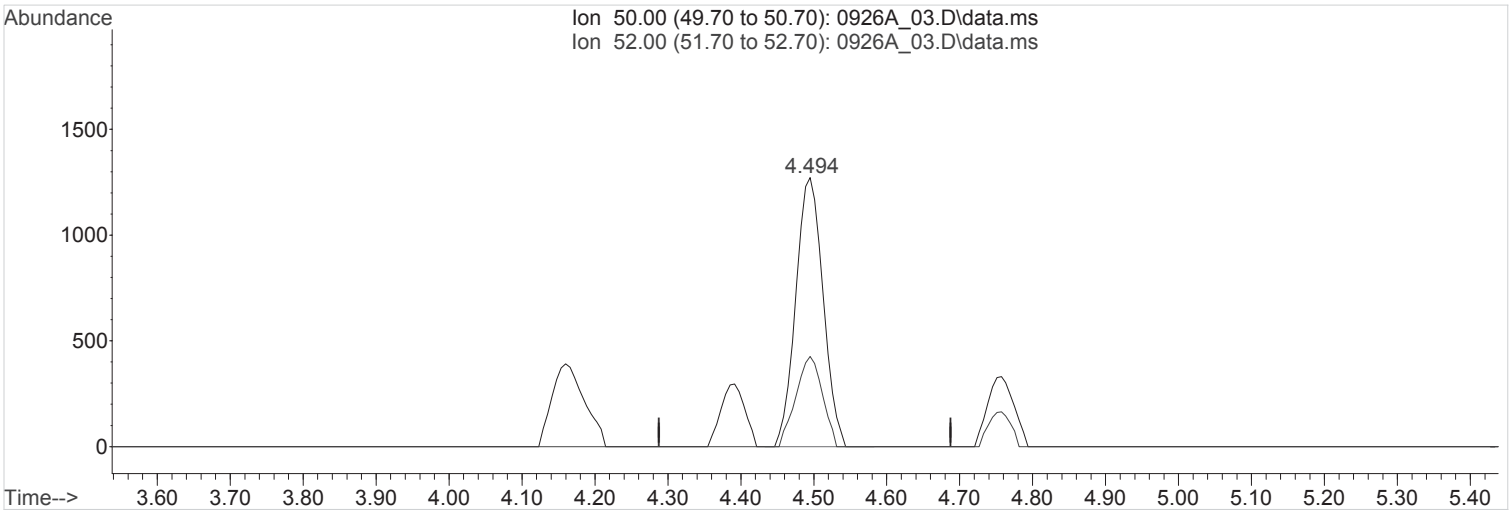
response 0

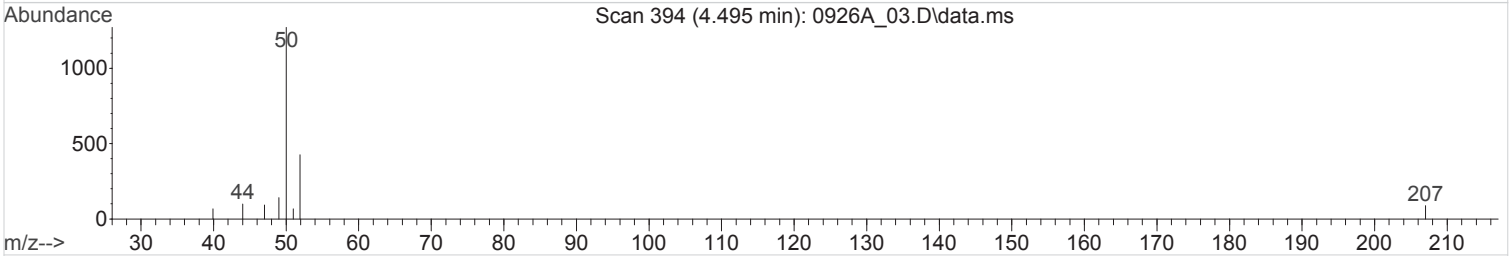
Ion	Exp%	Act%
50.00	100	0.00
52.00	31.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

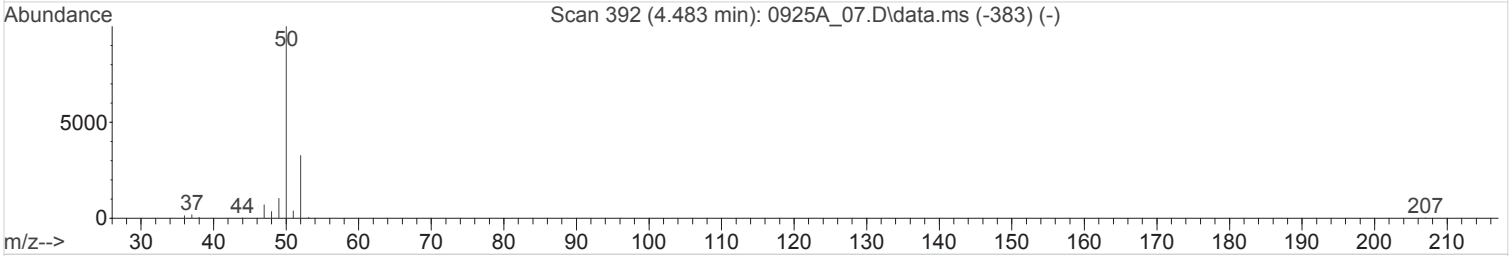
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(7) Chloromethane (T,M)

4.495min (+0.007) 0.1280066 ppbv m

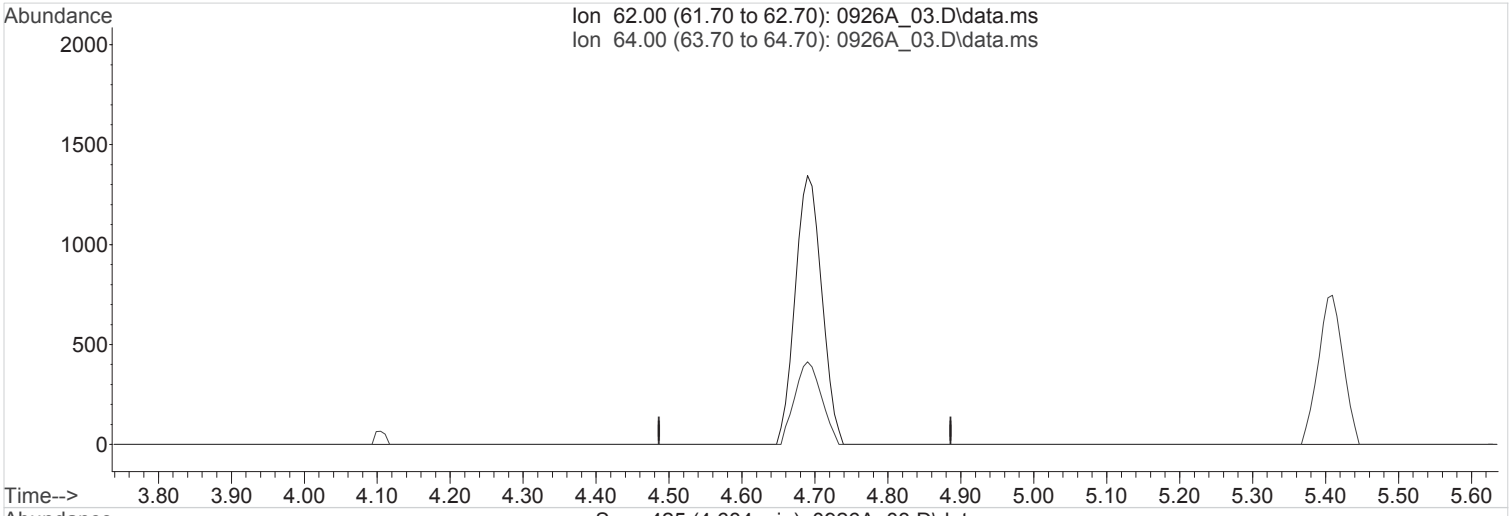
response 32982

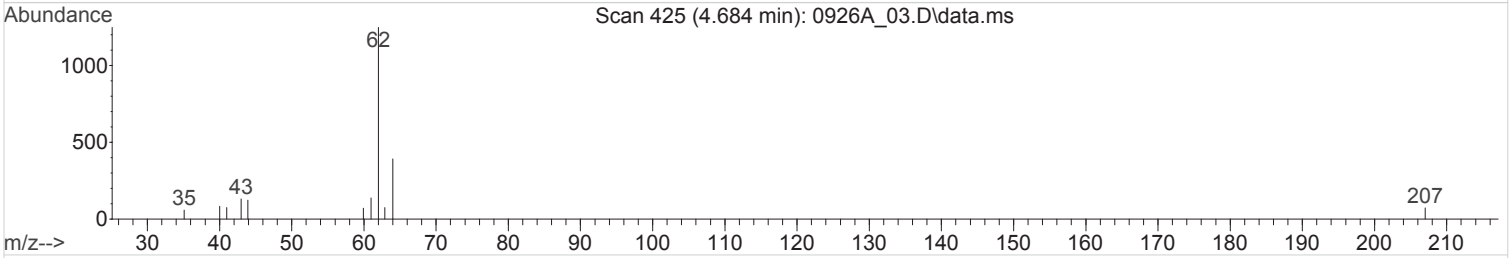
Ion	Exp%	Act%
50.00	100	100
52.00	31.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

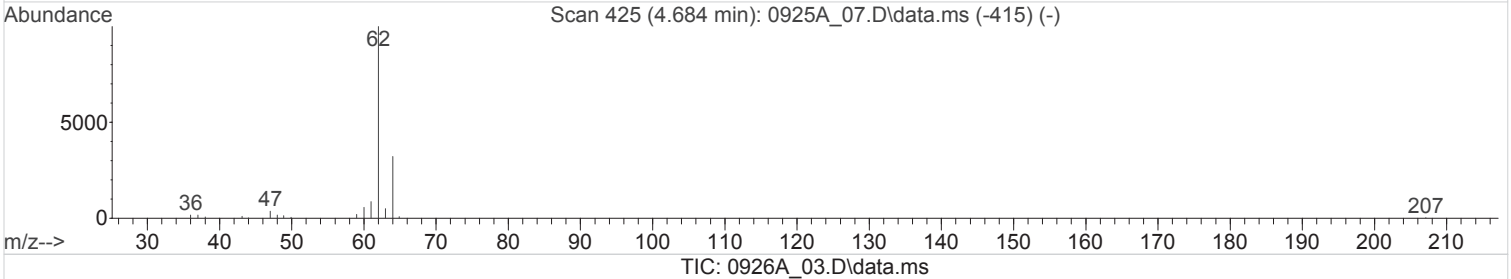
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(8) Vinyl Chloride (T,M)

4.686min (-4.686) 0.0000000 ppbv

Qvalue = 0

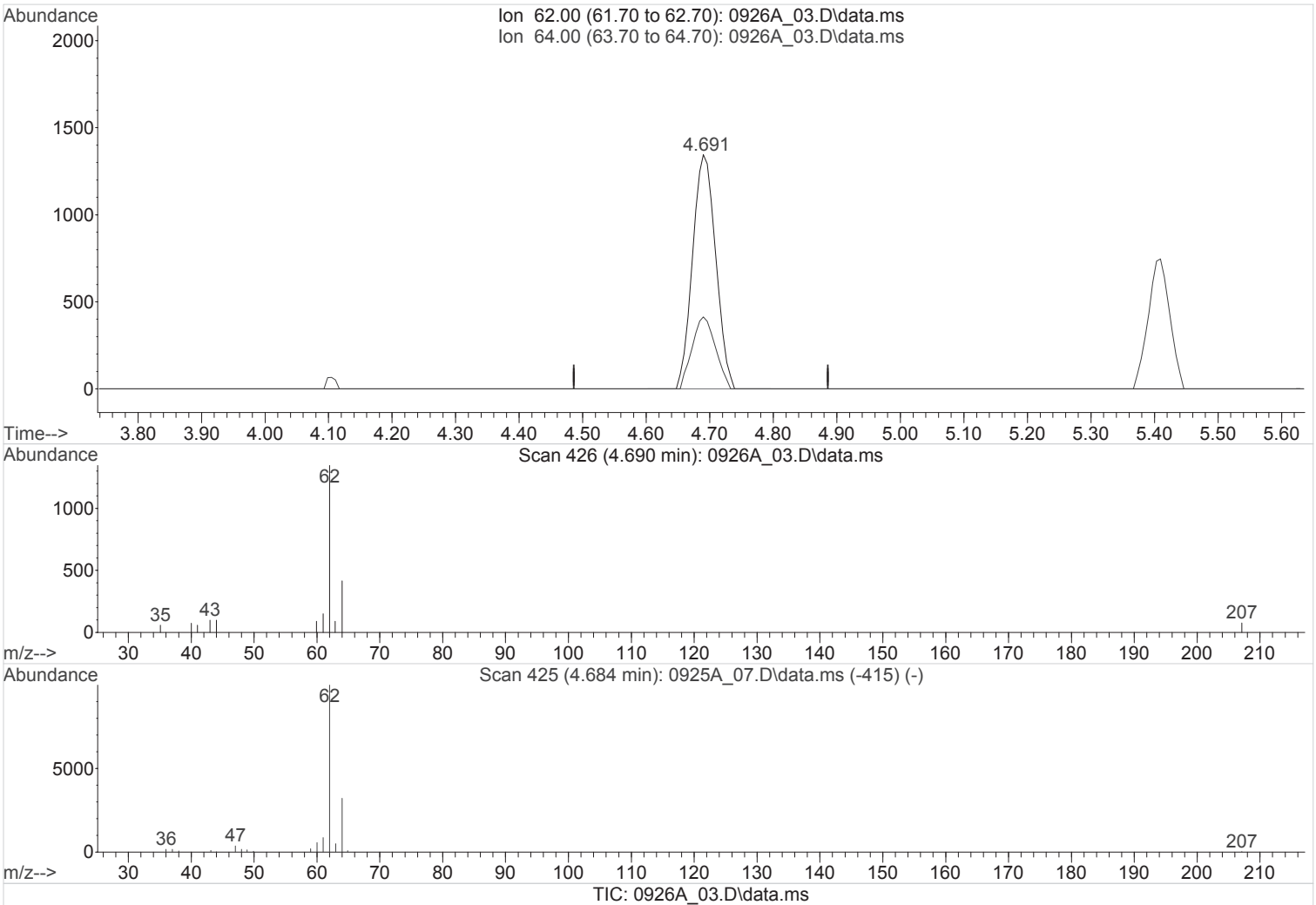
response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	31.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(8) Vinyl Chloride (T,M)

4.690min (+0.004) 0.1225522 ppbv m

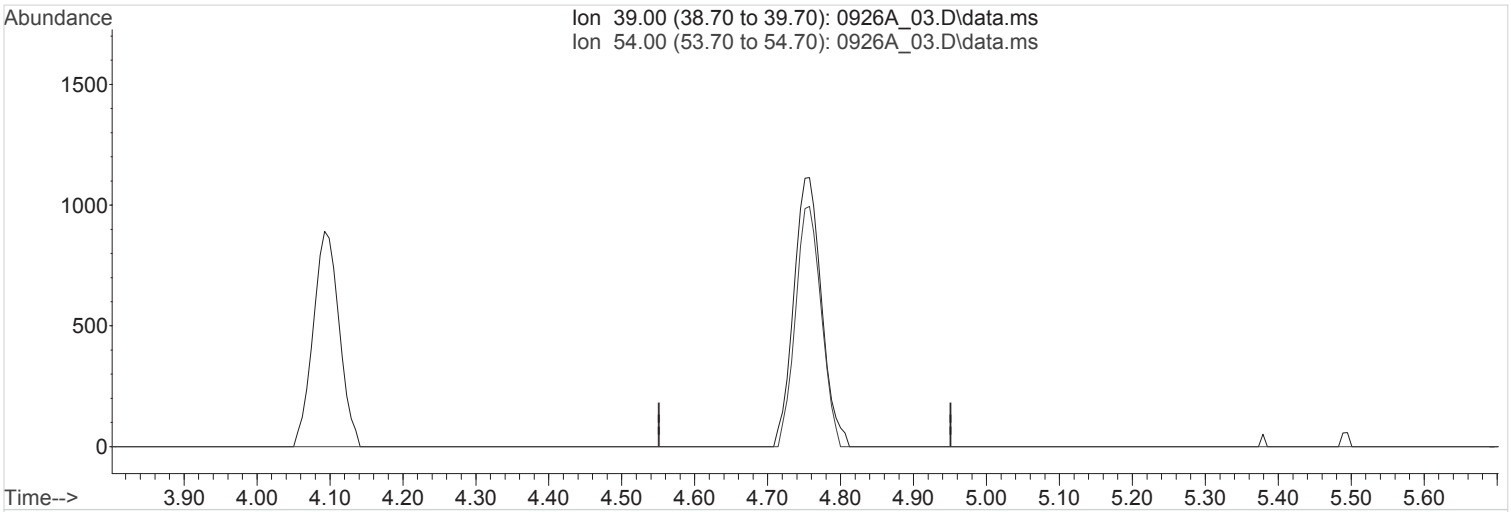
response 34091

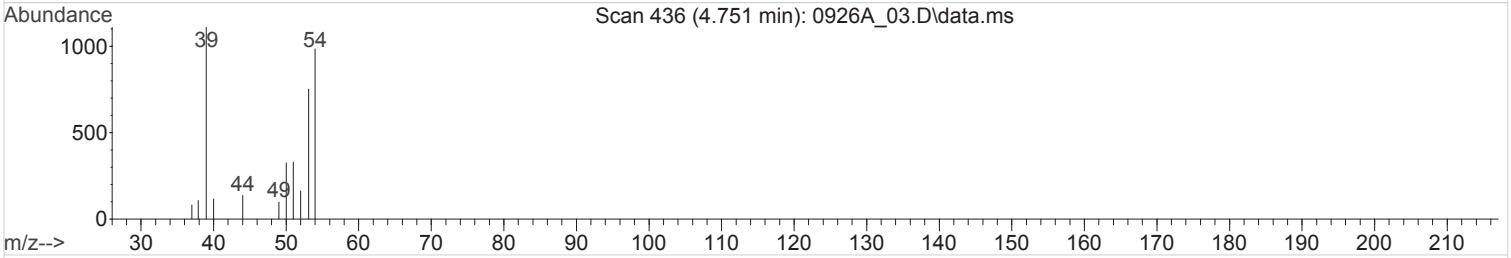
Ion	Exp%	Act%
62.00	100	100
64.00	31.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

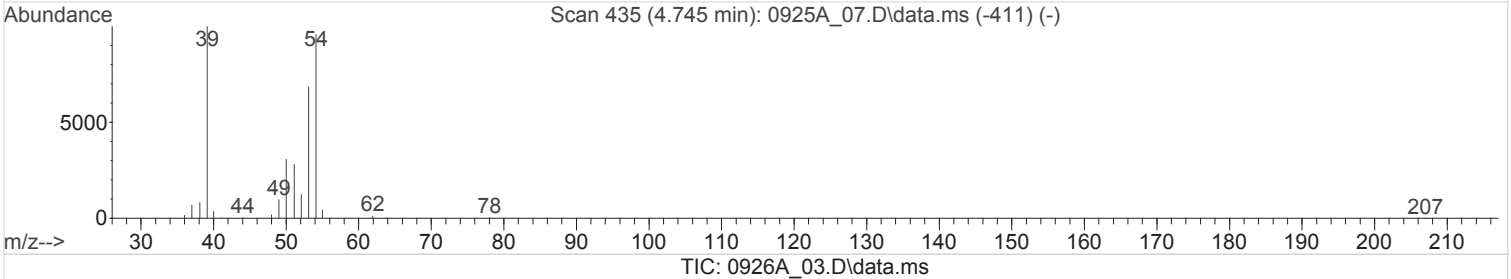
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(9) 1,3-Butadiene (T,M)

4.751min (-4.751) 0.0000000 ppbv

Qvalue = 0

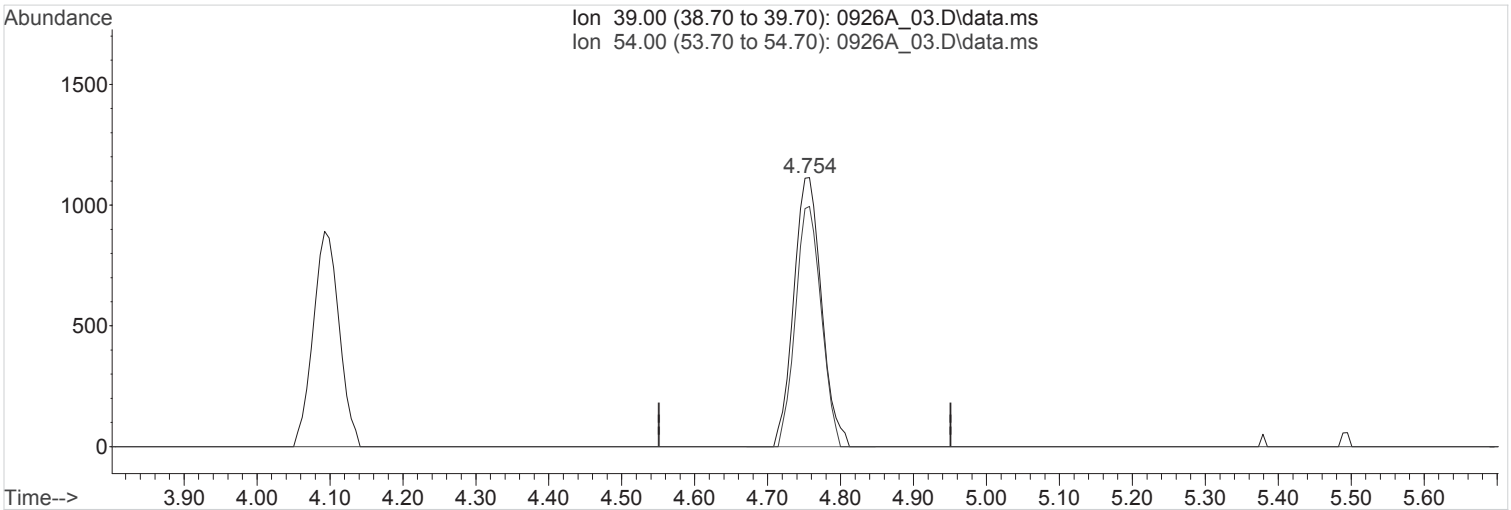
response 0

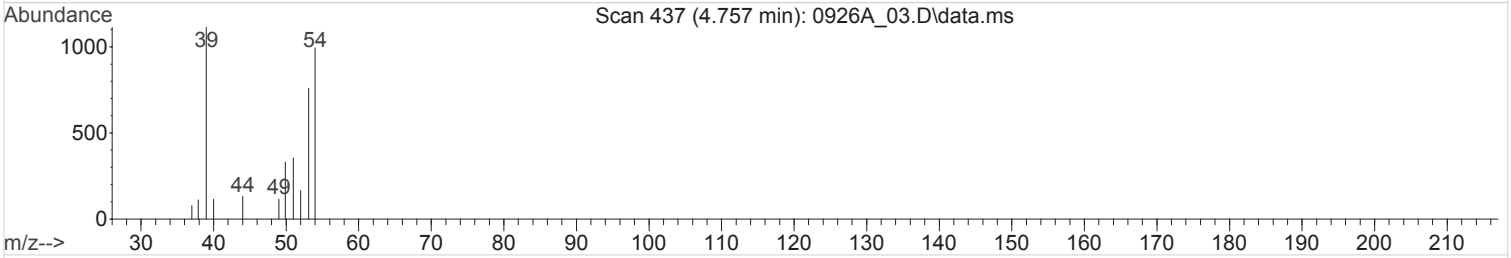
Ion	Exp%	Act%
39.00	100	0.00
54.00	91.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

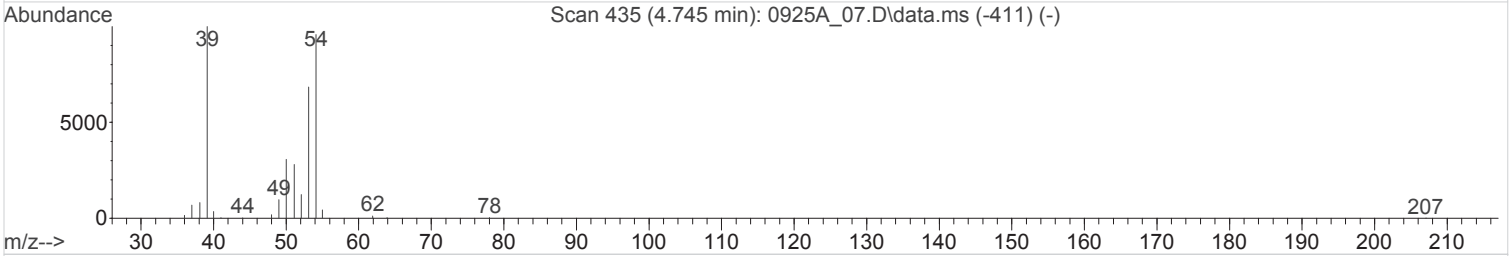
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(9) 1,3-Butadiene (T,M)

4.757min (+0.006) 0.1262531 ppbv m

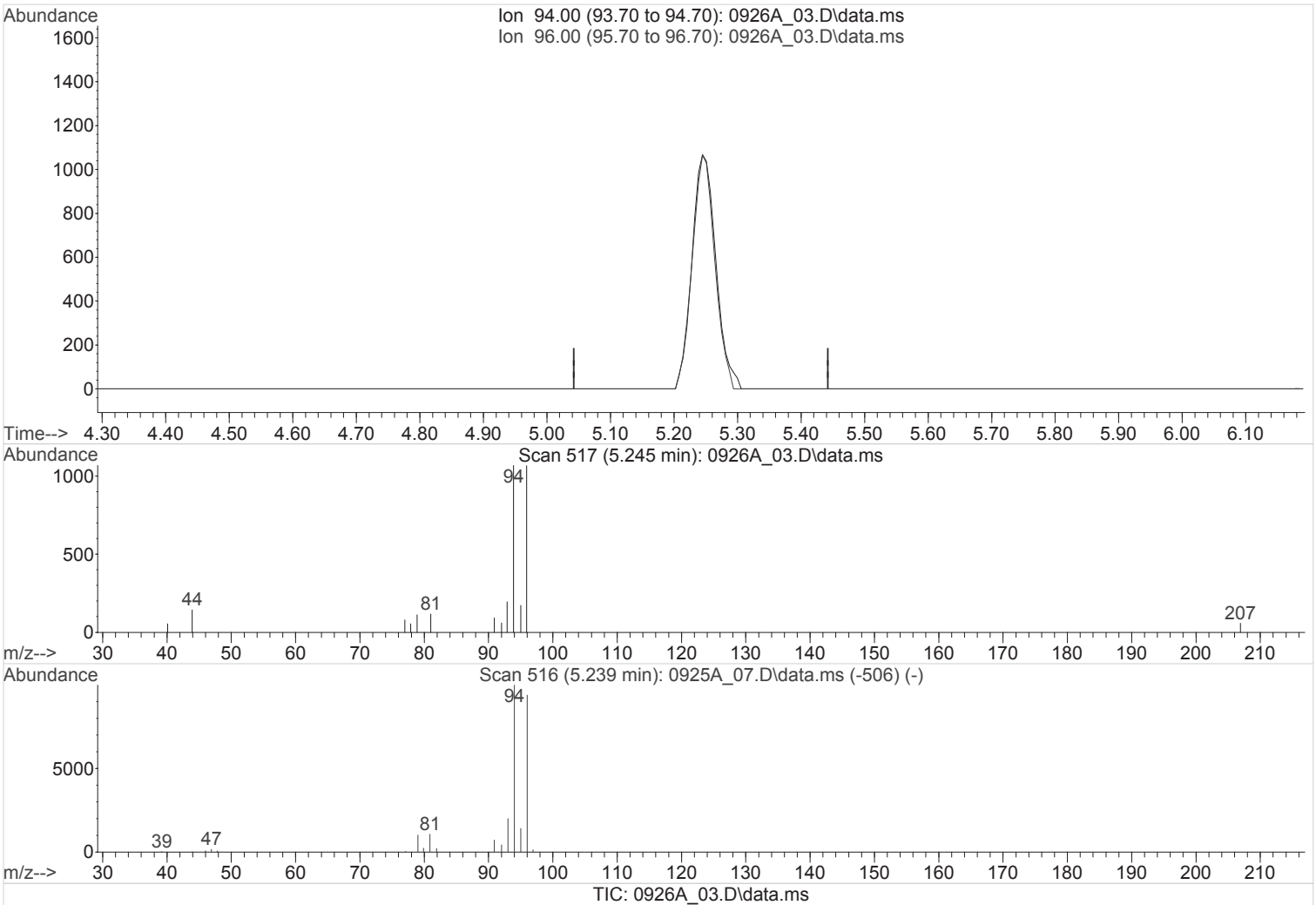
response 29588

Ion	Exp%	Act%
39.00	100	100
54.00	91.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(10) Bromomethane (T,M)

5.243min (-5.243) 0.0000000 ppbv

Qvalue = 0

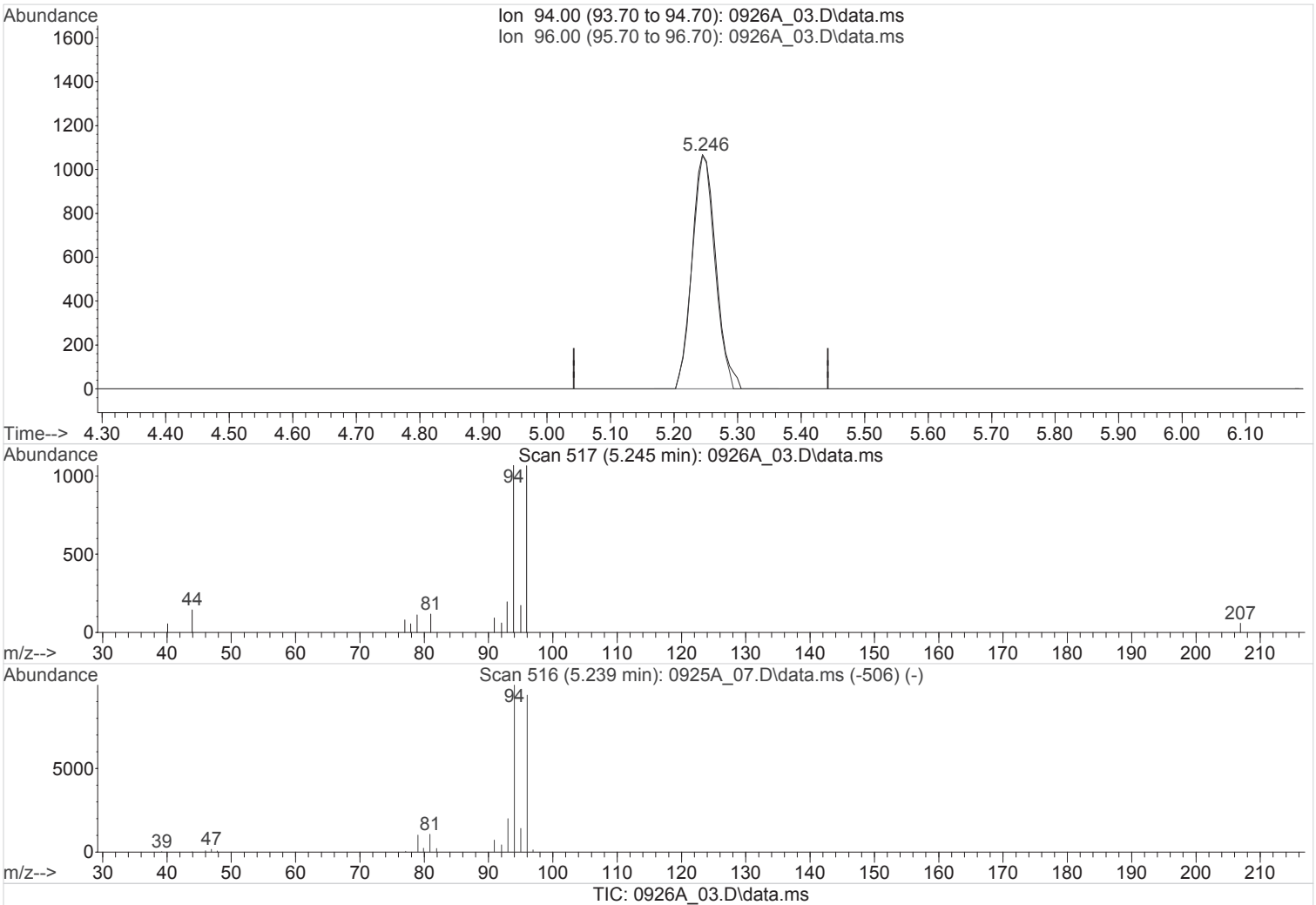
response 0

Ion	Exp%	Act%
94.00	100	0.00
96.00	94.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(10) Bromomethane (T,M)

5.245min (+0.002) 0.1334006 ppbv m

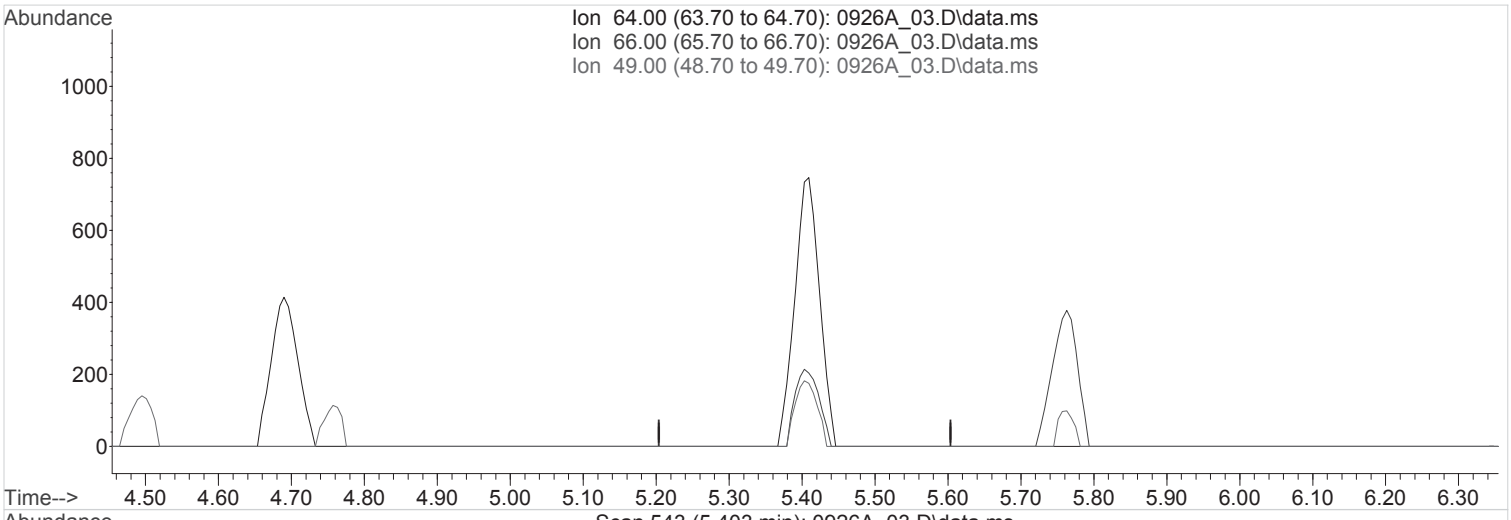
response 27700

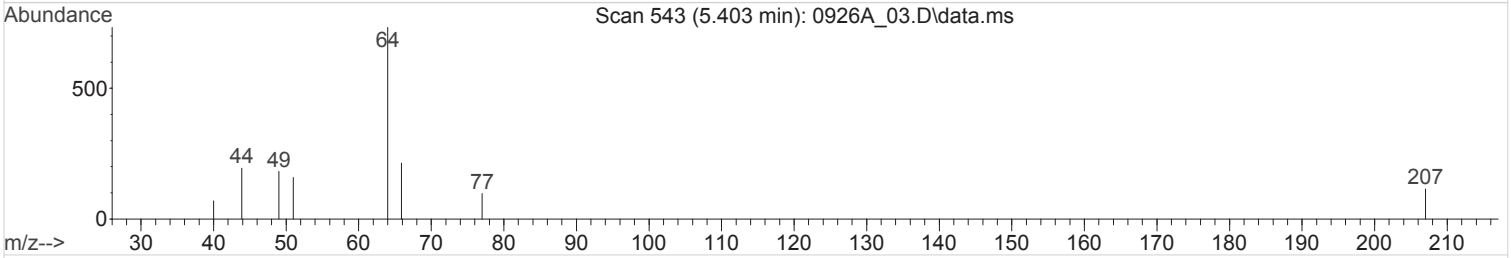
Ion	Exp%	Act%
94.00	100	100
96.00	94.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

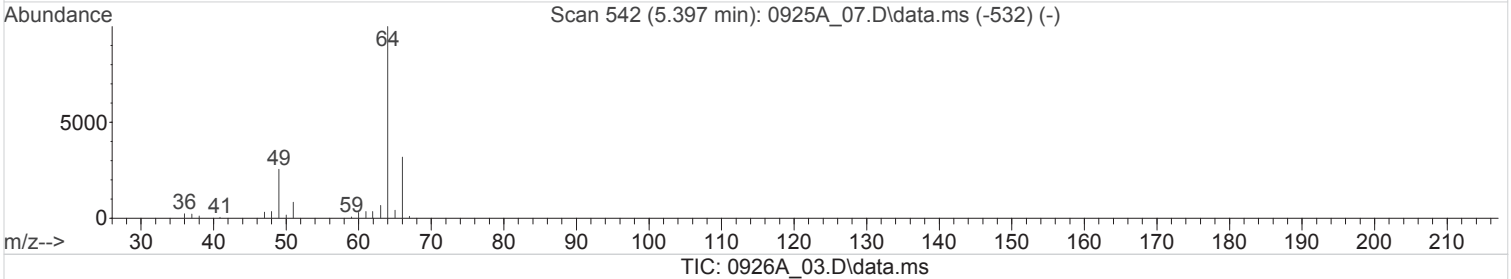
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(11) Chloroethane (T,M)

5.404min (-5.404) 0.0000000 ppbv

Qvalue = 0

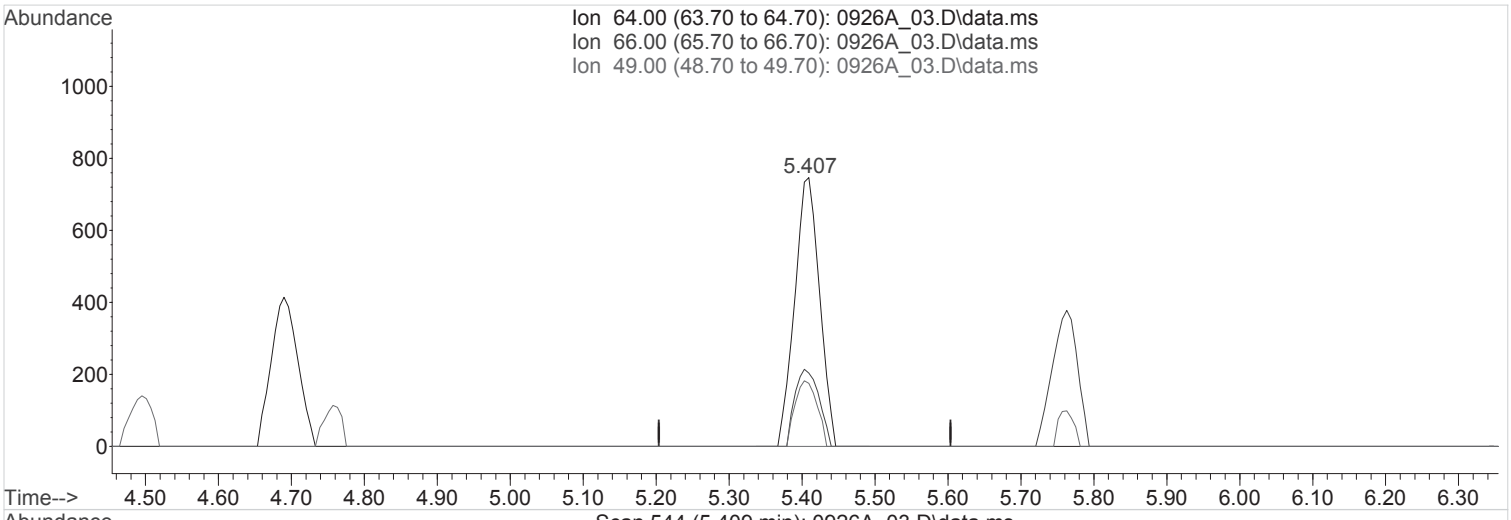
response 0

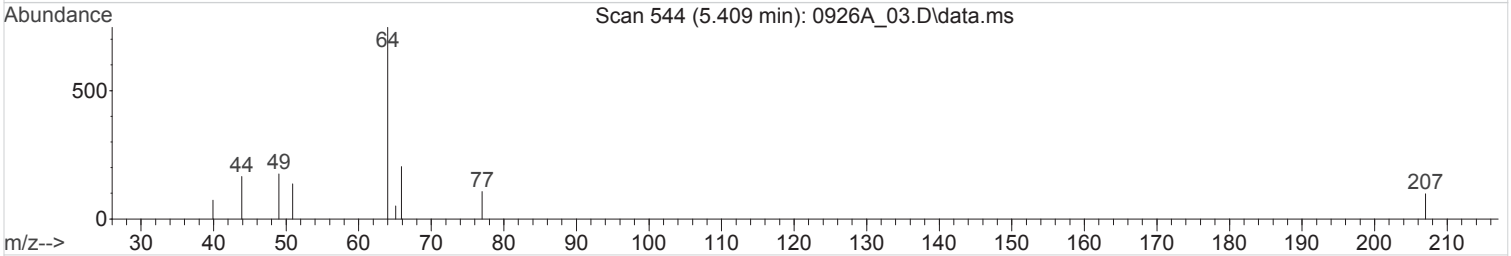
Ion	Exp%	Act%
64.00	100	0.00
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

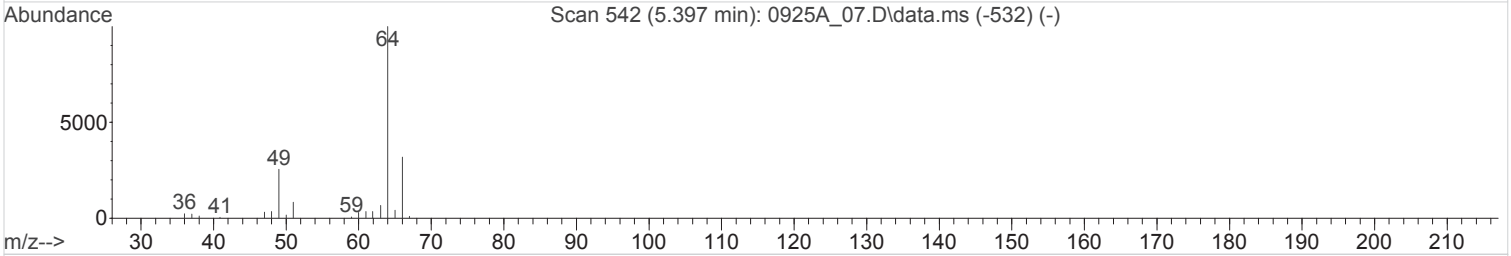
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(11) Chloroethane (T,M)

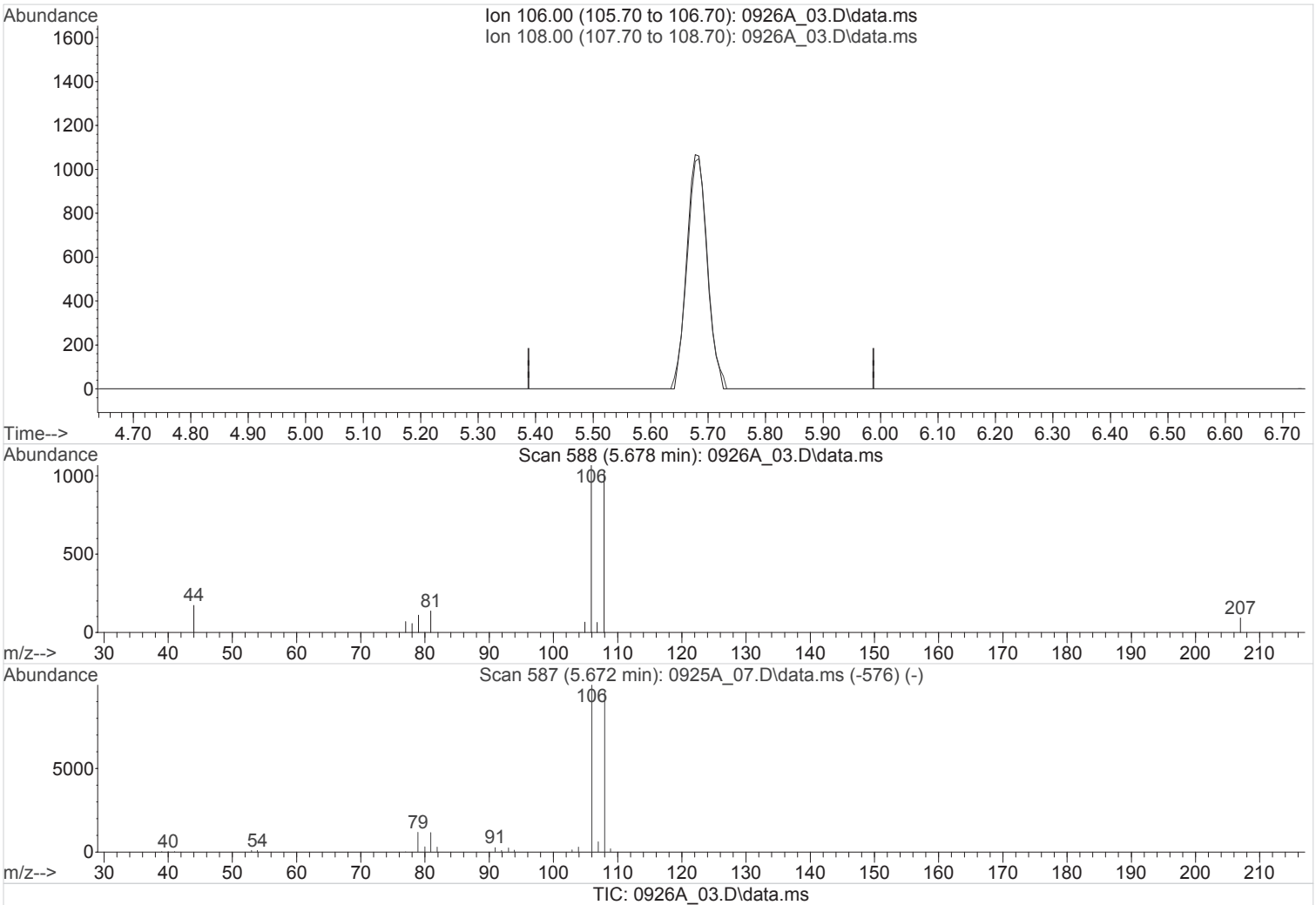
5.409min (+0.005) 0.1213180 ppbv m

response 17664

Ion	Exp%	Act%
64.00	100	100
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(12) Vinyl Bromide (T,M)

5.678min (-5.678) 0.0000000 ppbv

Qvalue = 0

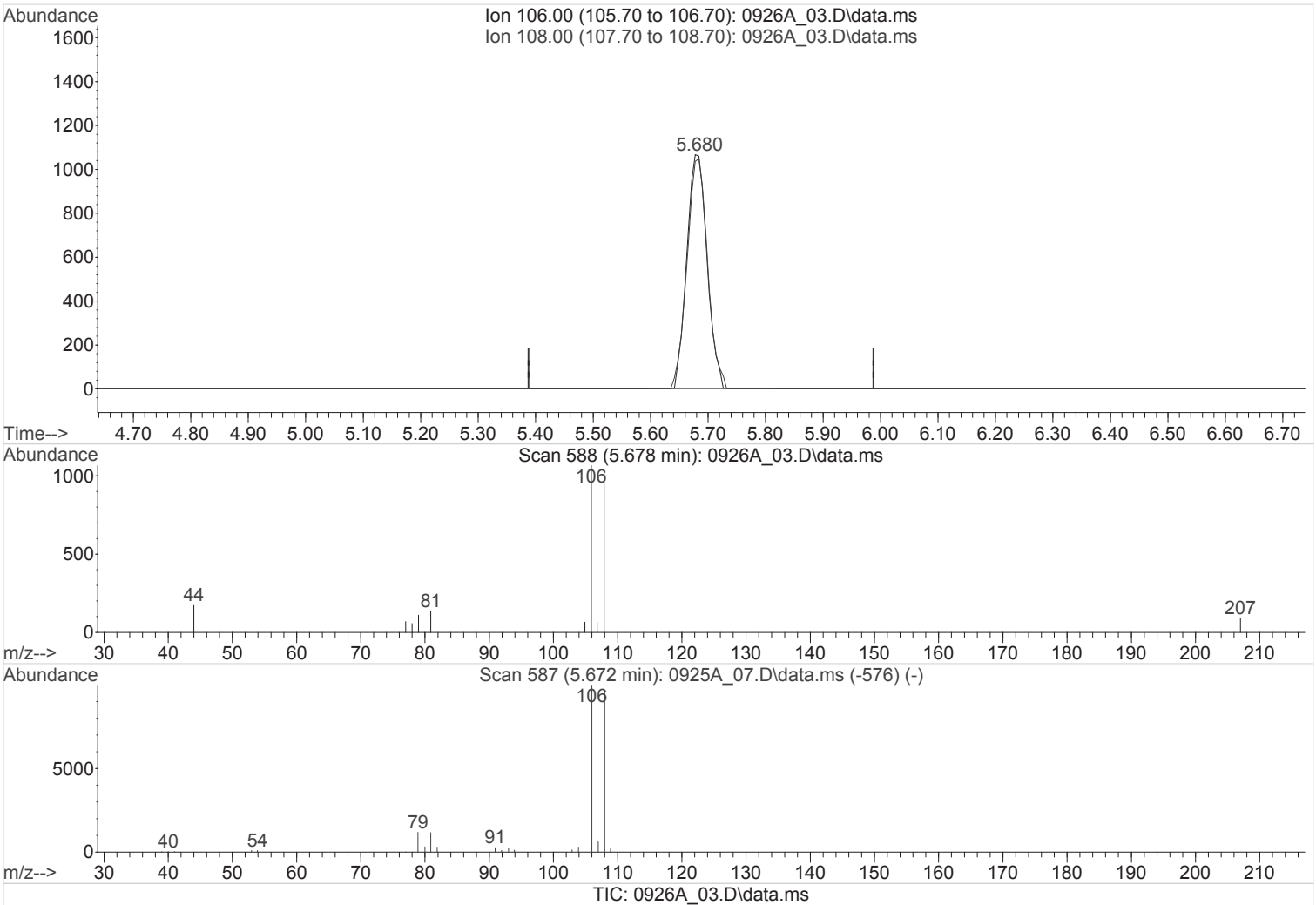
response 0

Ion	Exp%	Act%
106.00	100	0.00
108.00	92.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(12) Vinyl Bromide (T,M)

5.678min (-0.000) 0.1252657 ppbv m

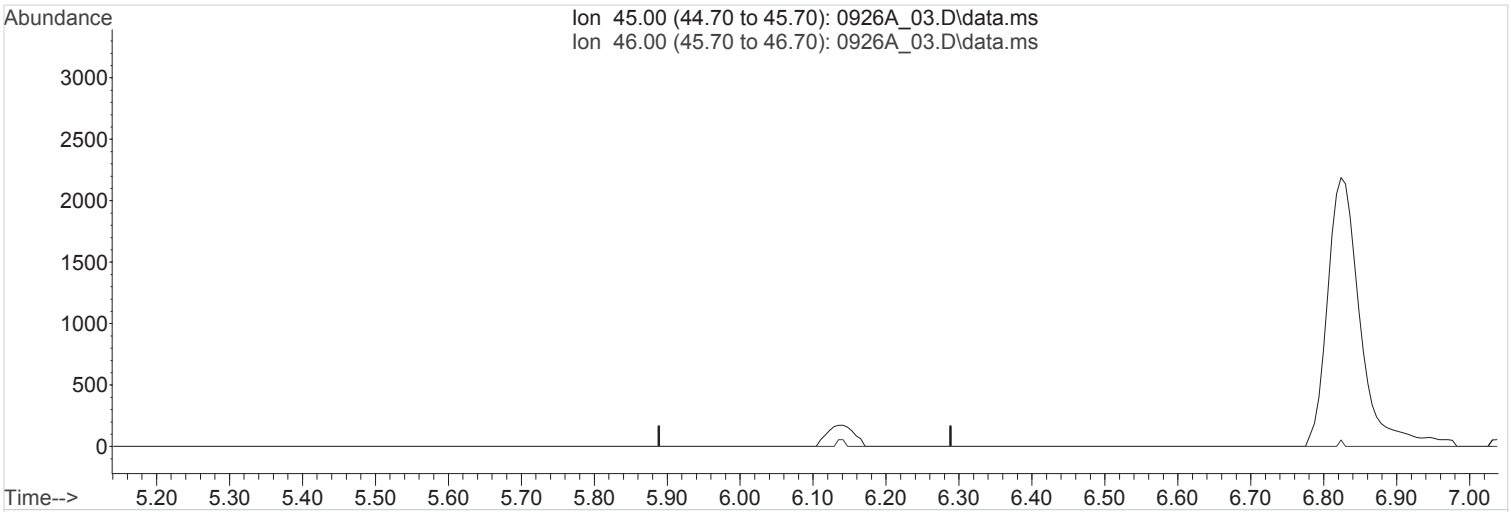
response 26081

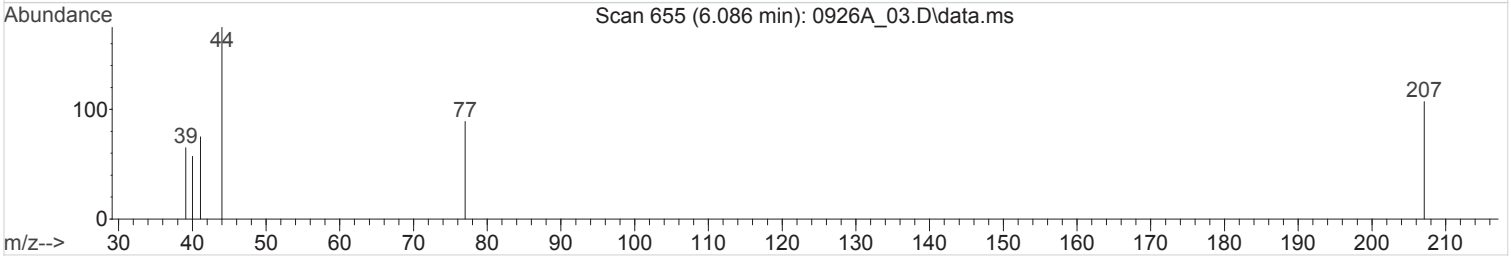
Ion	Exp%	Act%
106.00	100	100
108.00	92.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

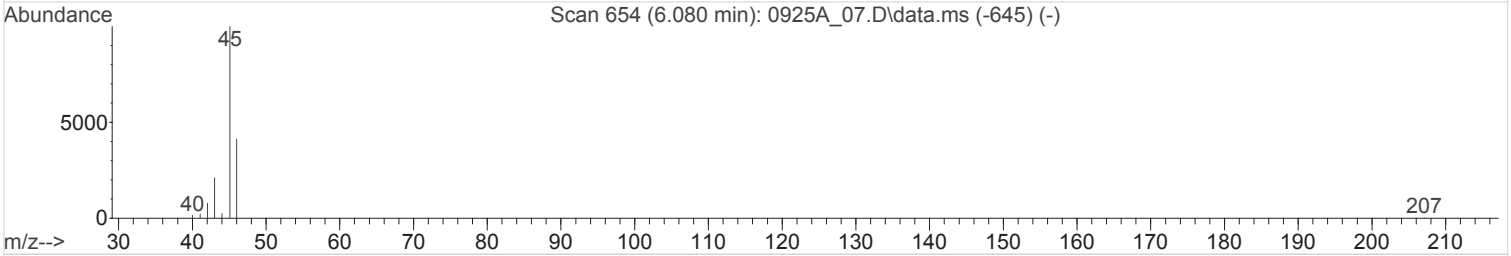
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

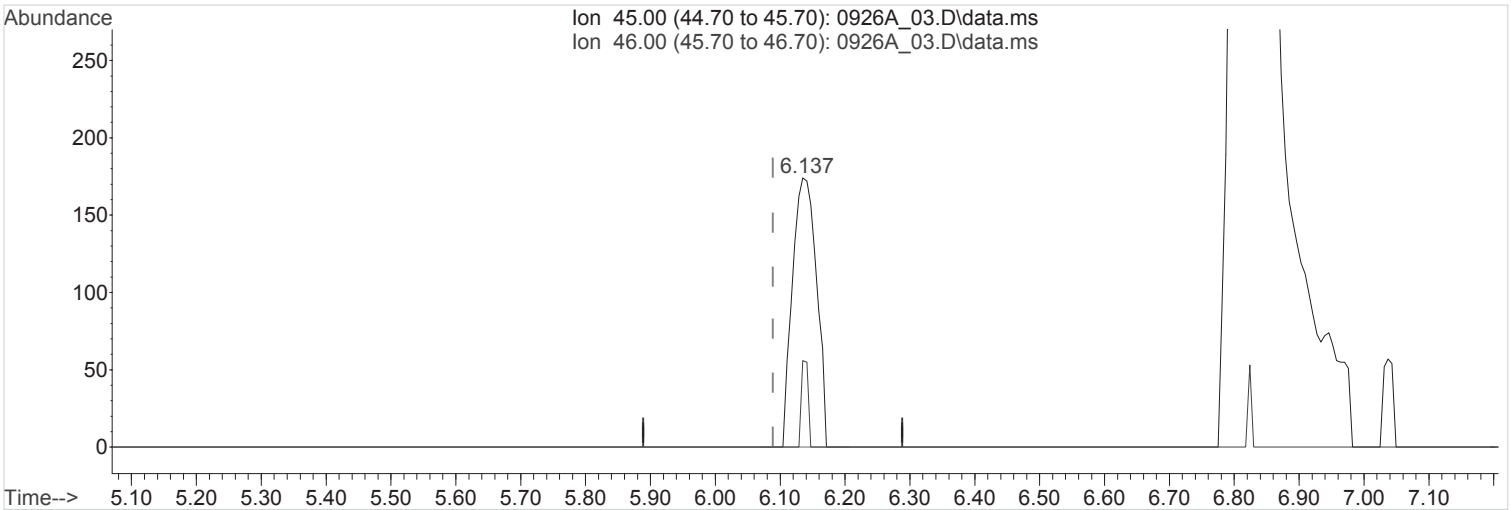
response 0

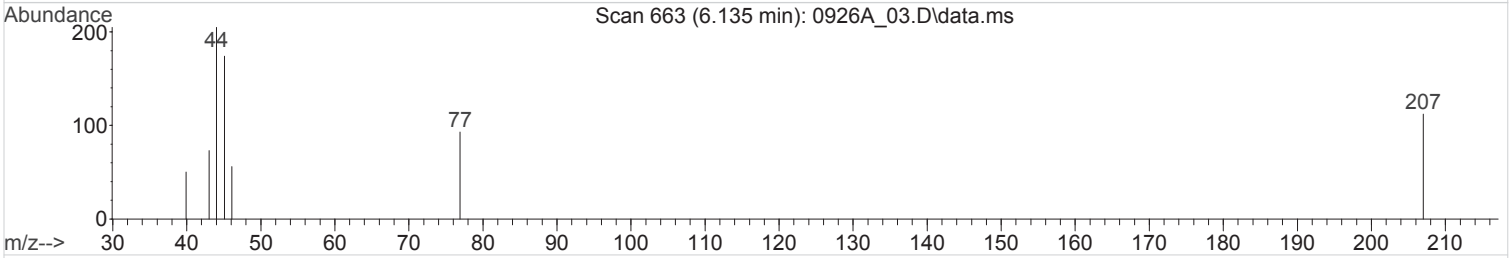
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

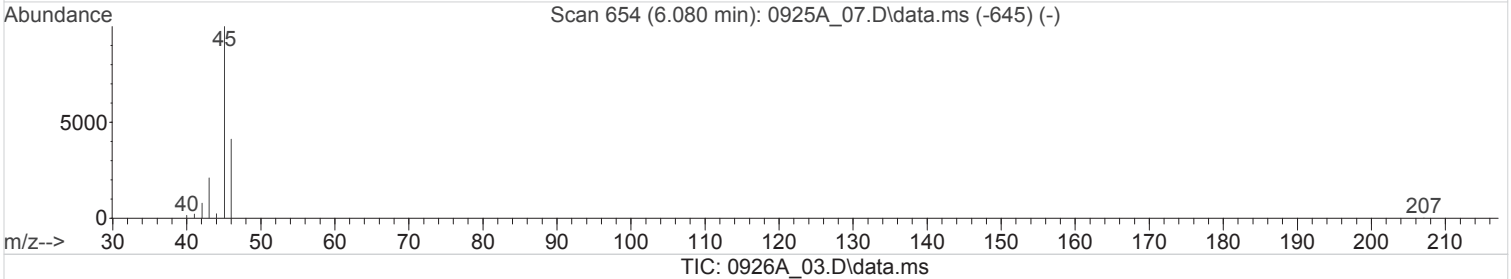
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(14) Ethanol (T,M)

6.135min (+0.046) 0.1173046 ppbv m

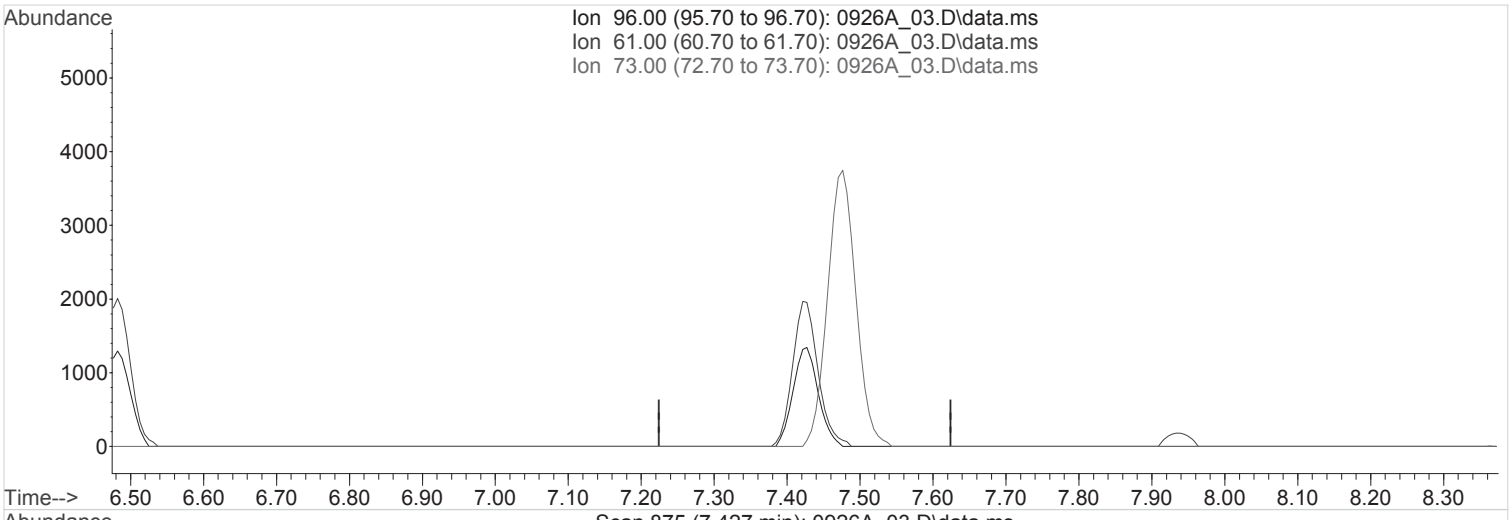
response 4470

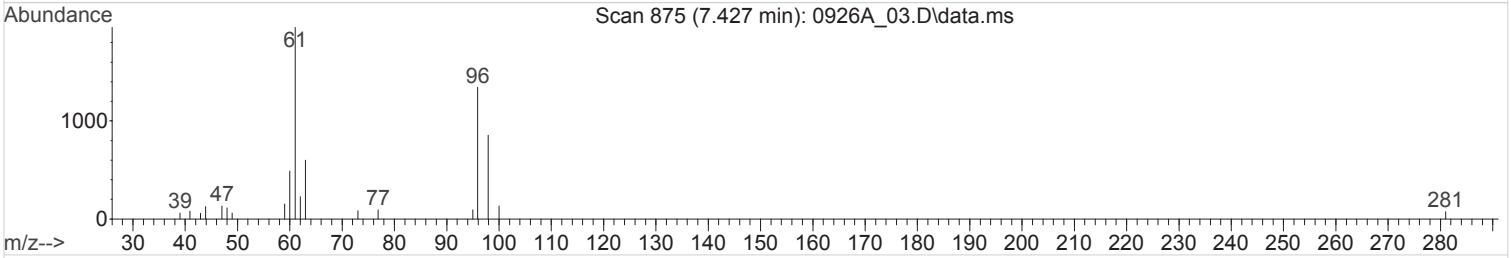
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

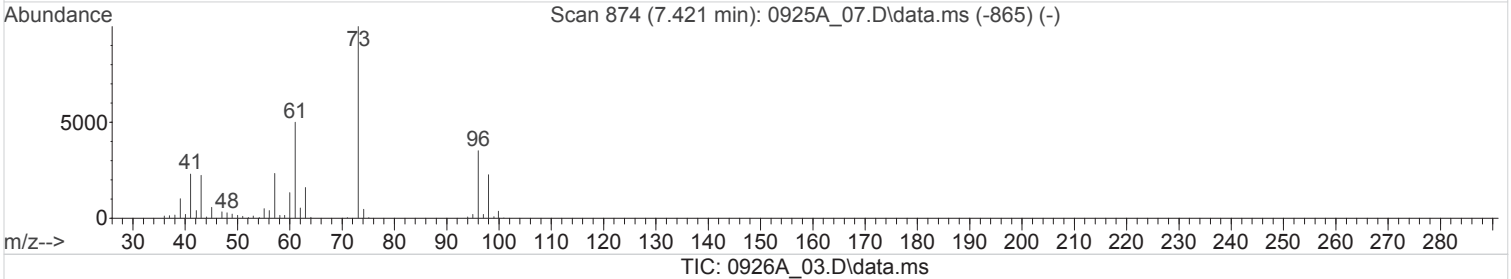
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(24) Trans-1,2-Dichloroethene (T,M)

7.424min (-7.424) 0.0000000 ppbv

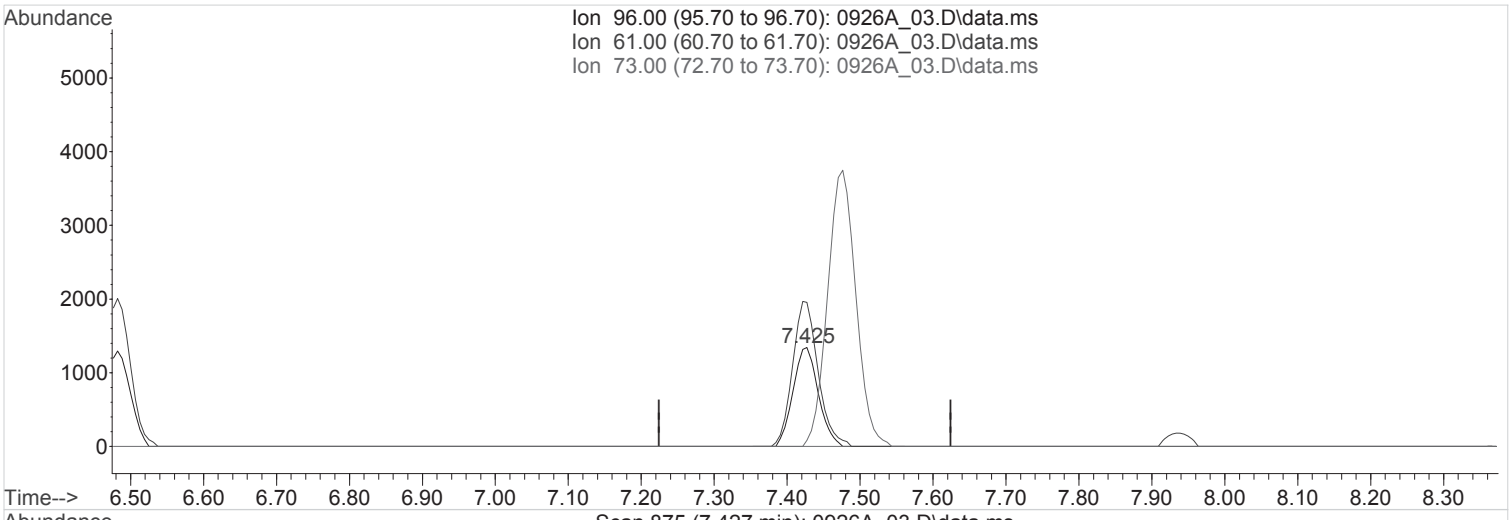
Qvalue = 0

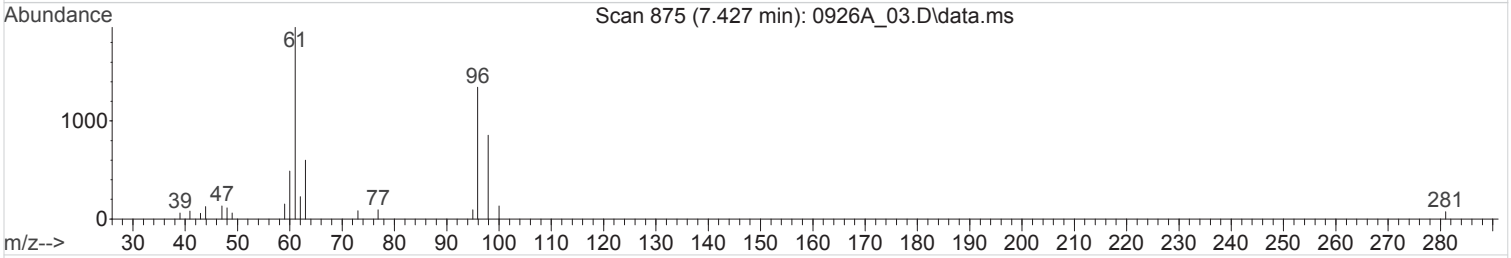
response 0

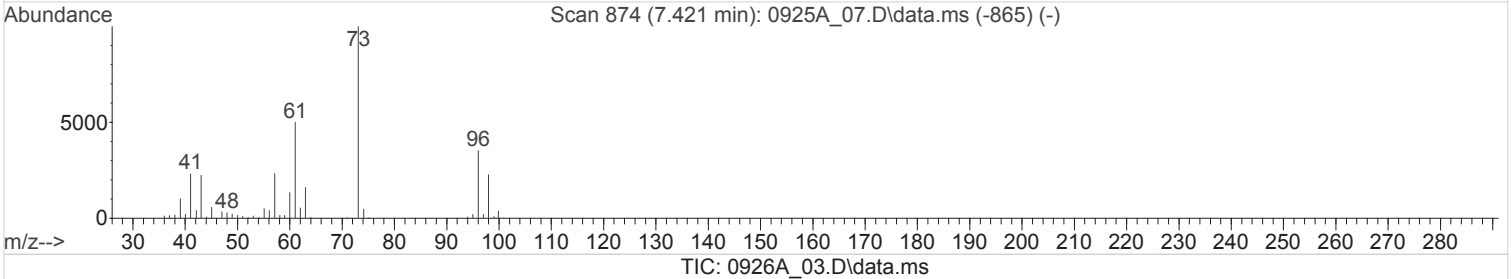
Ion	Exp%	Act%
96.00	100	0.00
61.00	151.20	0.00#
73.00	305.70	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(24) Trans-1,2-Dichloroethene (T,M)

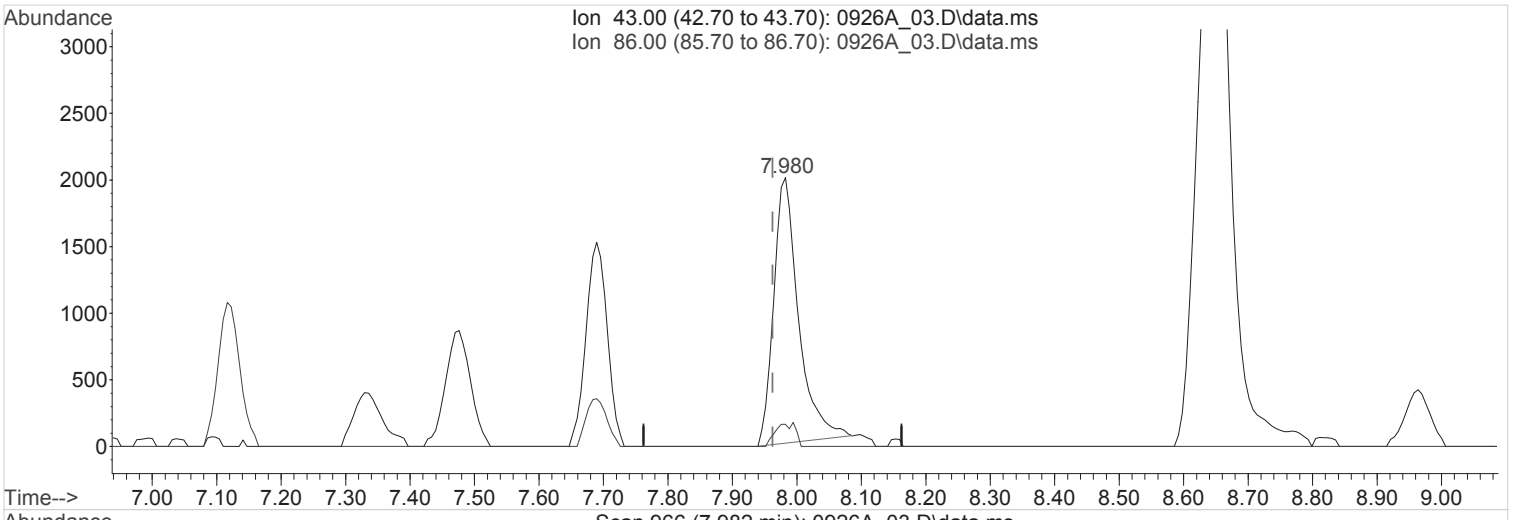
7.427min (+0.003) 0.1492030 ppbv m

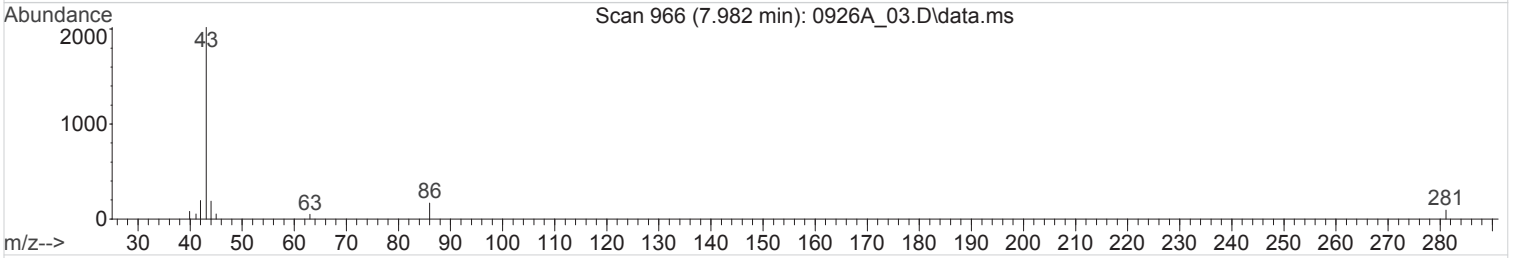
response 32512

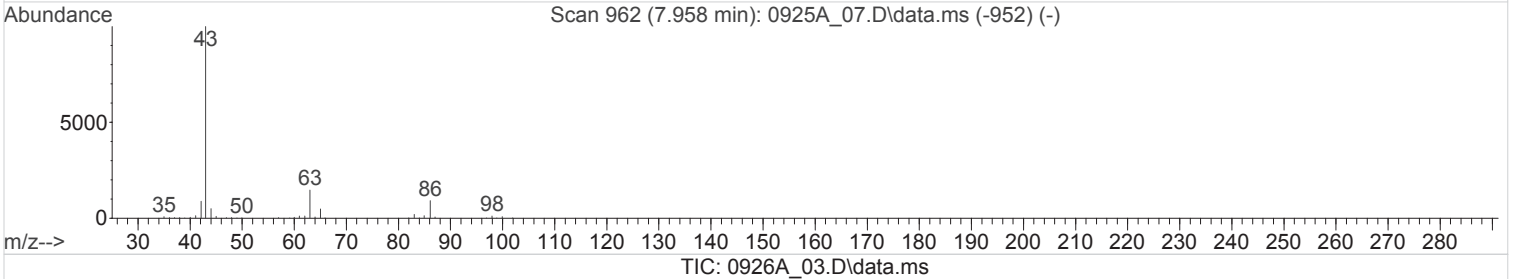
Ion	Exp%	Act%
96.00	100	100
61.00	151.20	0.00#
73.00	305.70	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(27) Vinyl Acetate (T,M)

7.983min (+0.020) 0.1234156 ppbv

Qvalue = 77

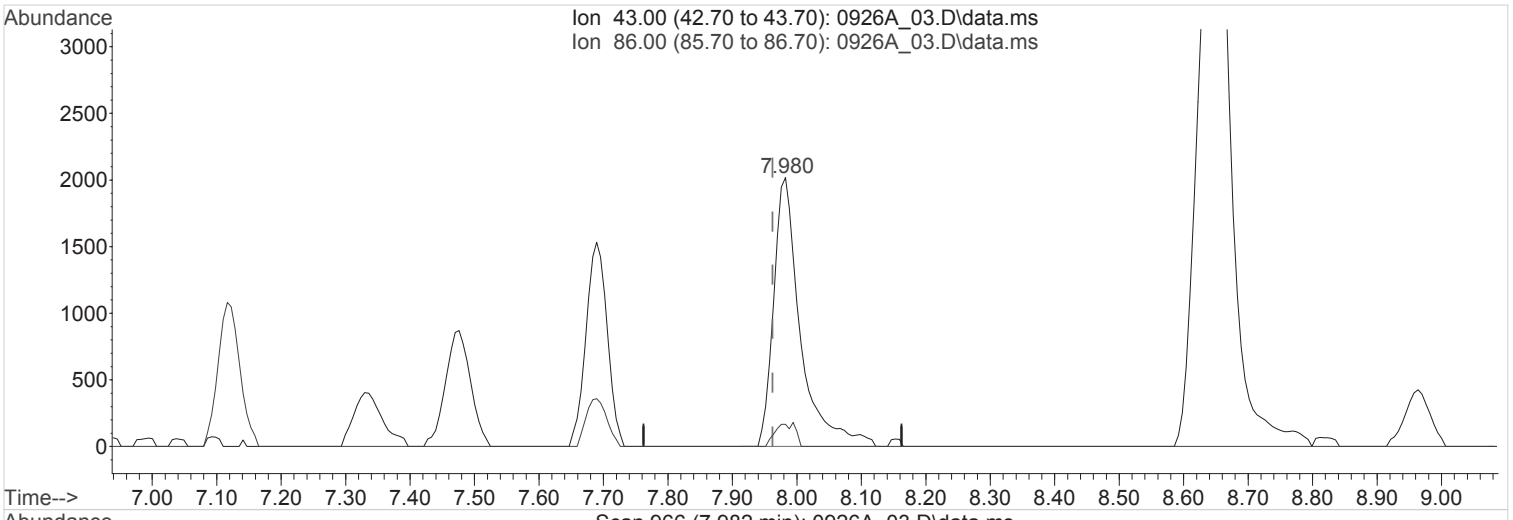
response 53233

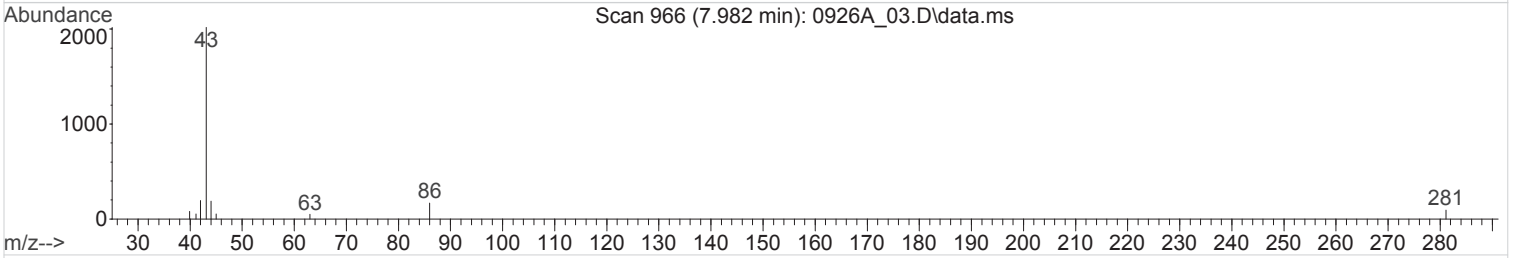
Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

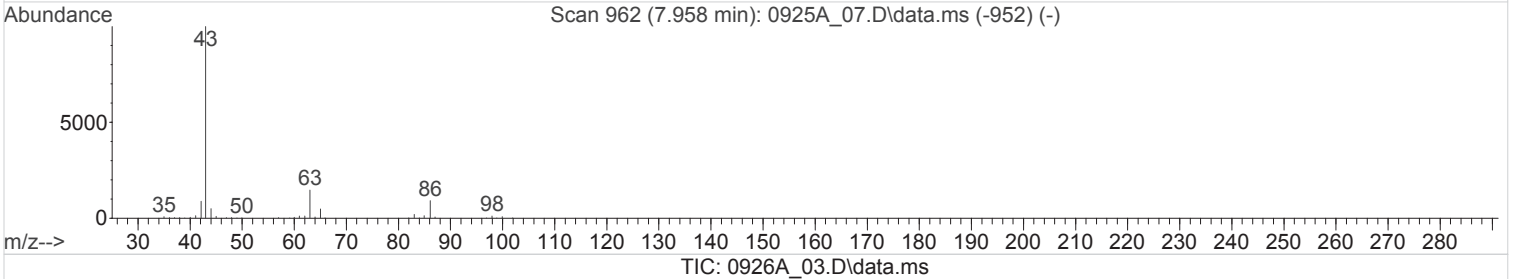
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(27) Vinyl Acetate (T,M)

7.982min (+0.020) 0.1355872 ppbv m

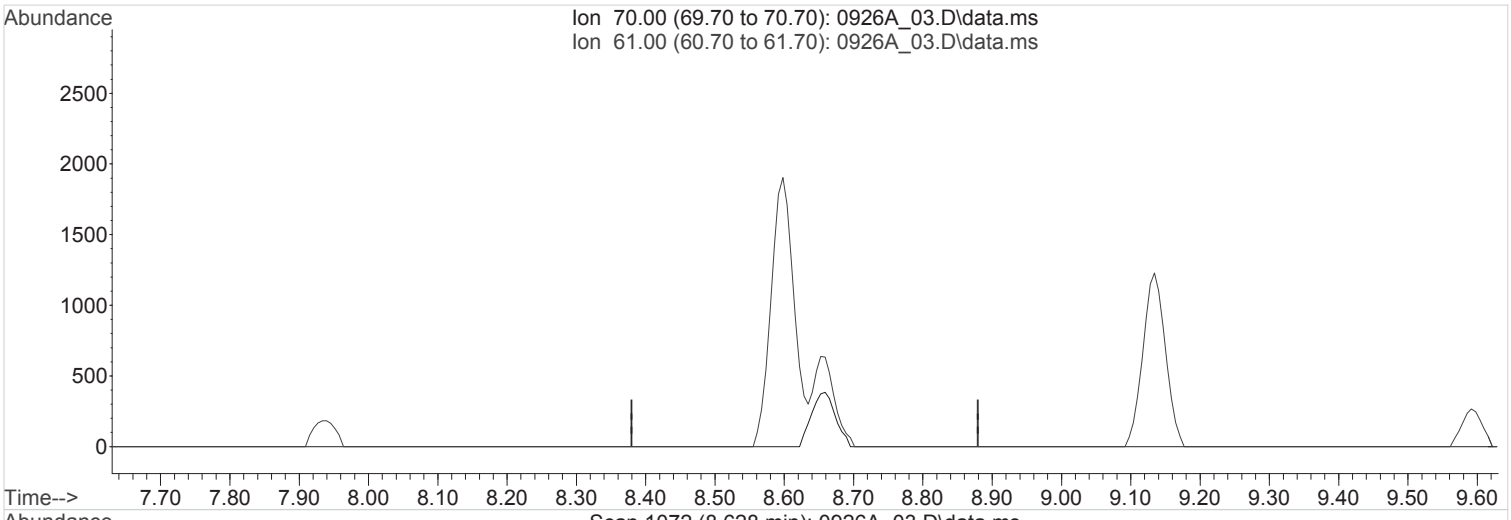
response 58483

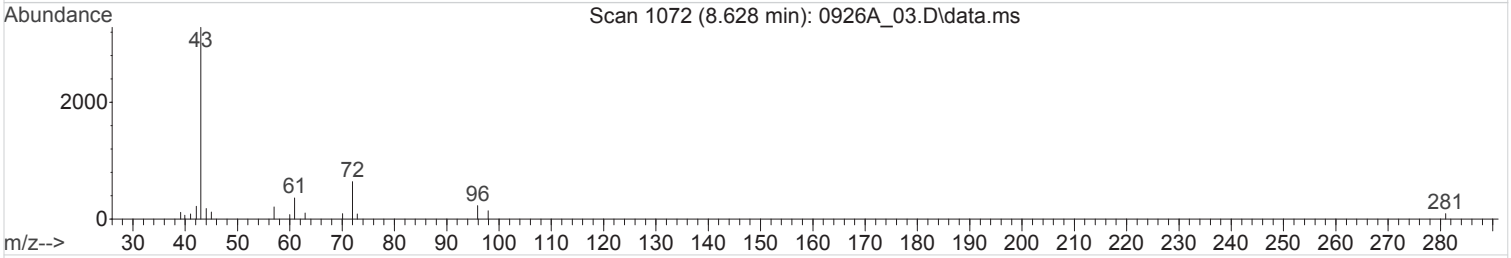
Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

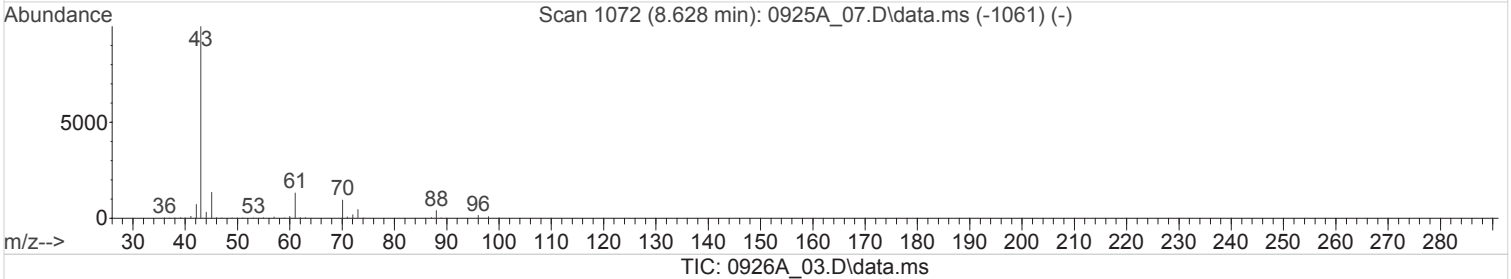
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

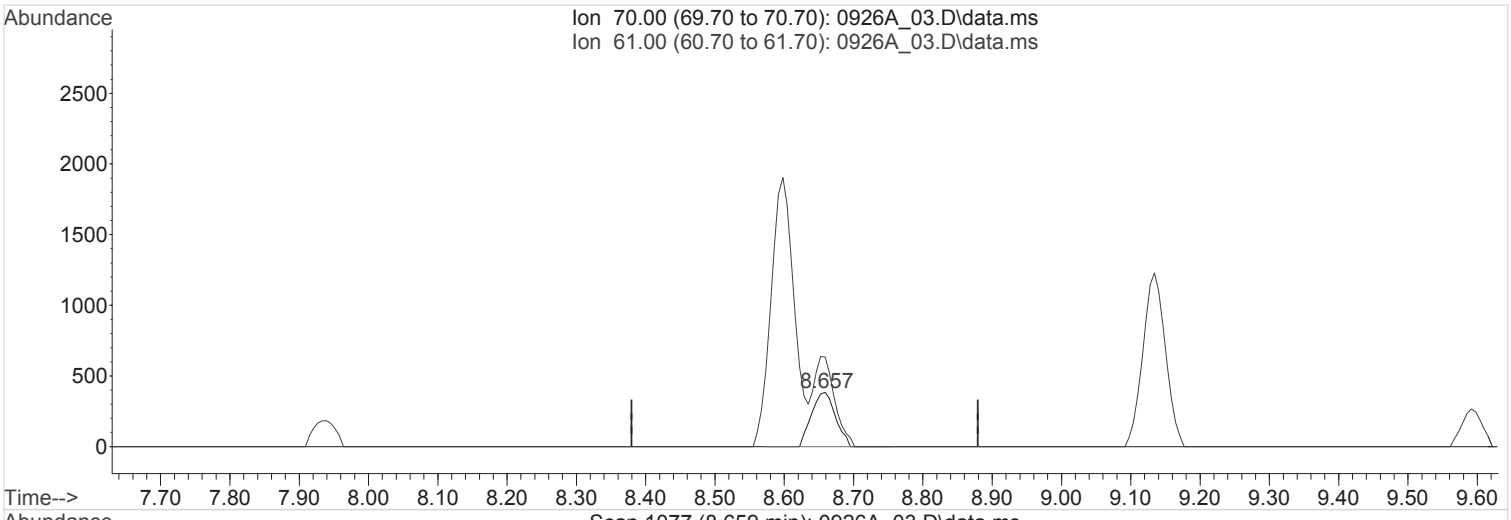
response 0

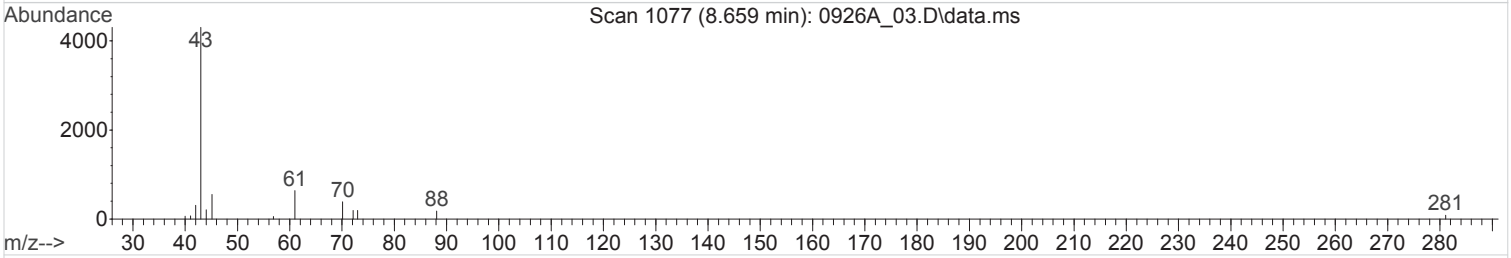
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

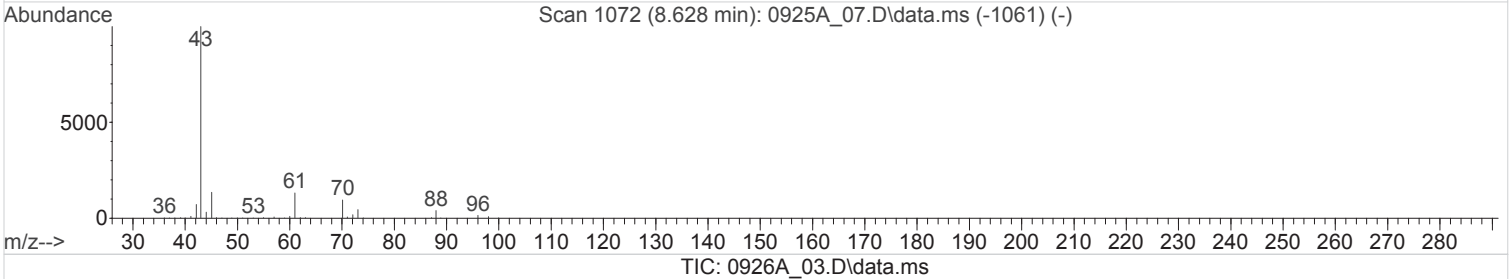
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(28) ETHYL ACETATE

8.659min (+0.029) 0.1331088 ppbv m

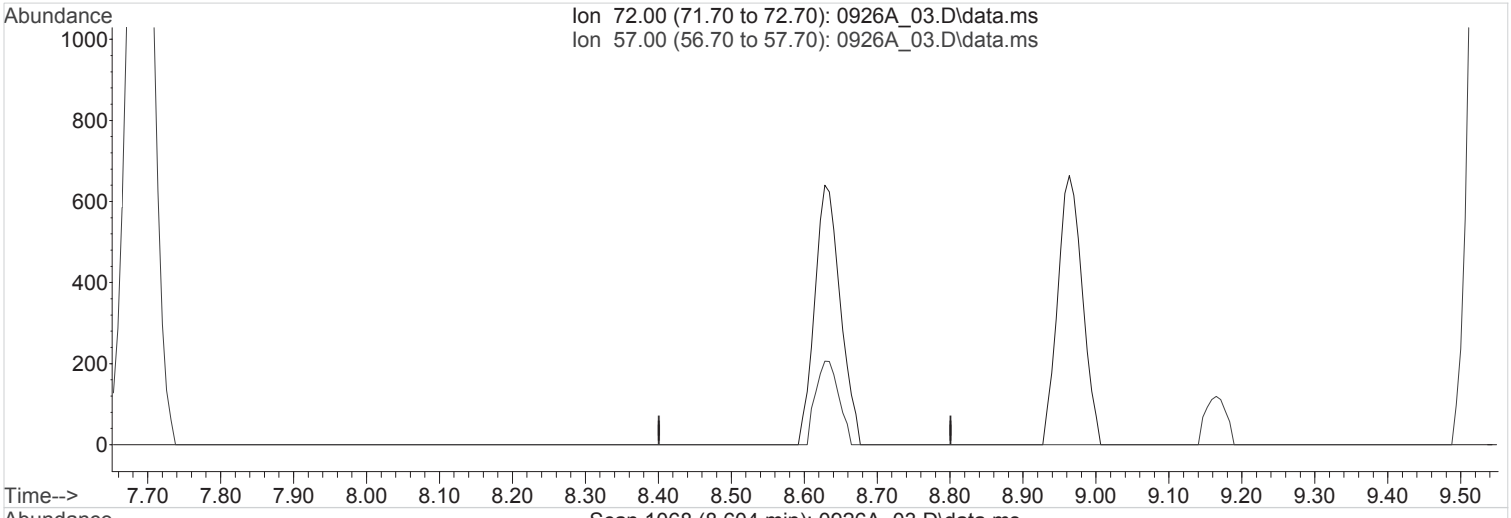
response 9174

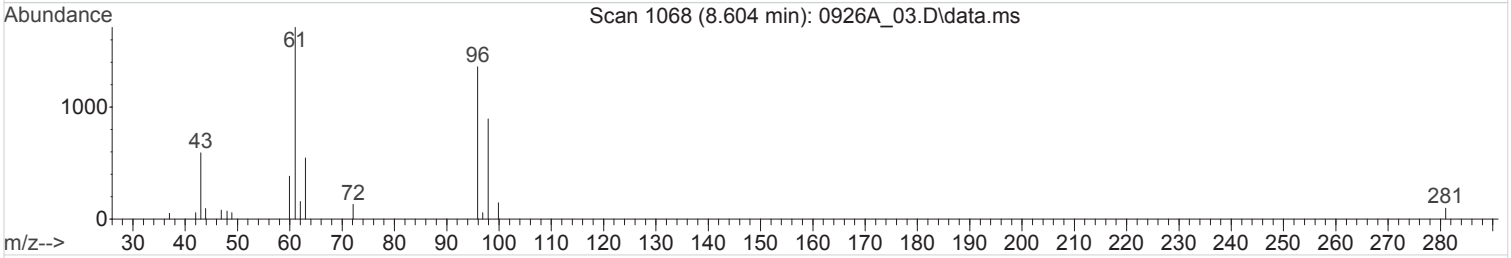
Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

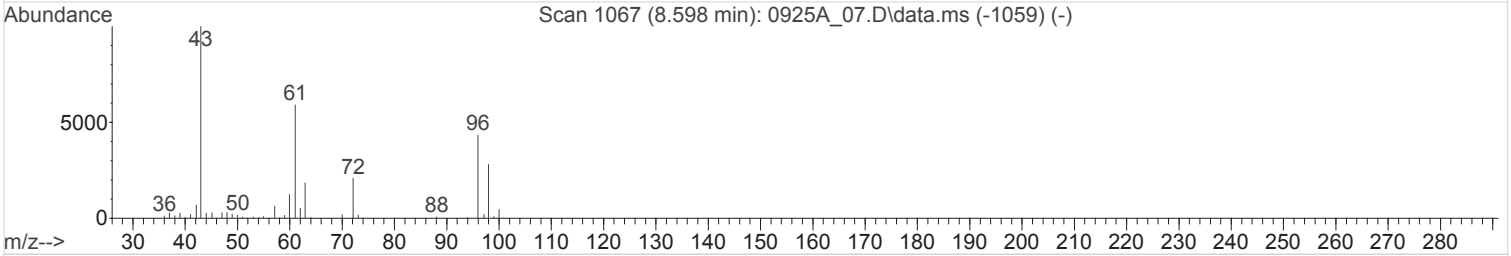
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.601min (-8.601) 0.0000000 ppbv

Qvalue = 0

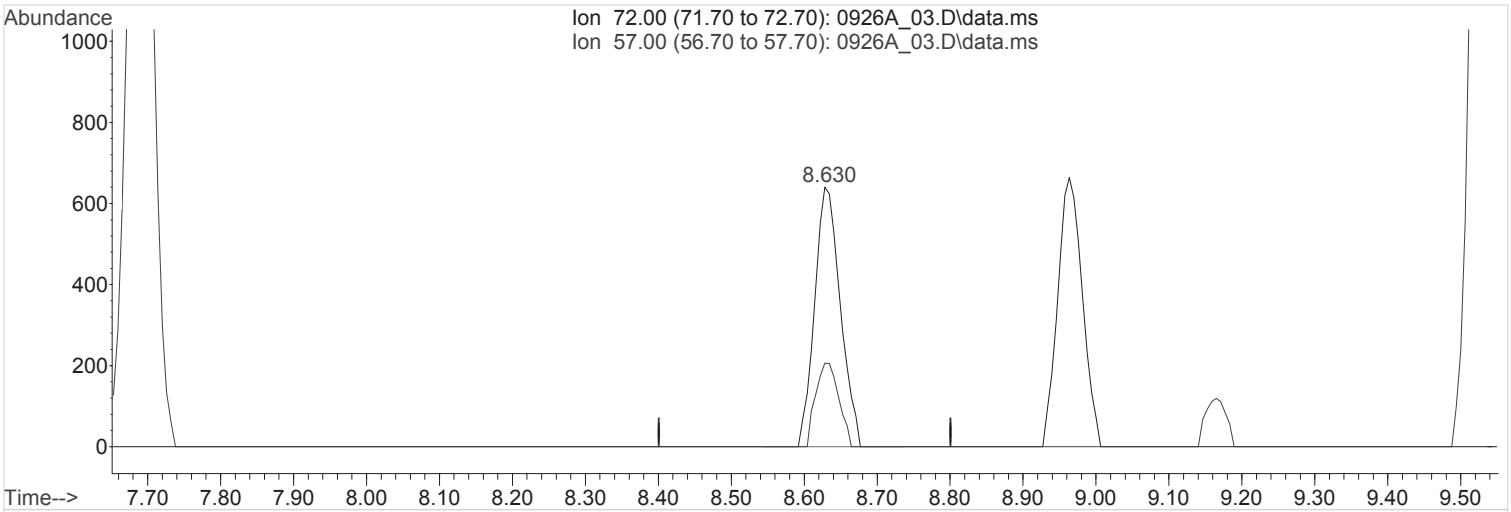
response 0

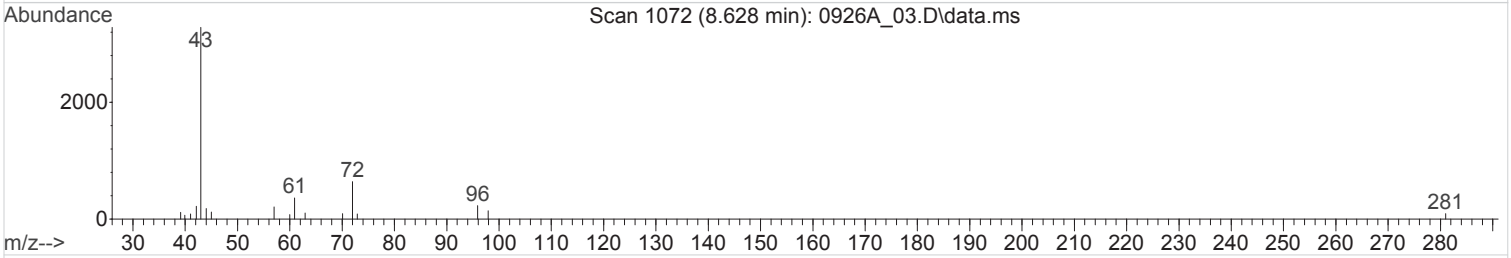
Ion	Exp%	Act%
72.00	100	0.00
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

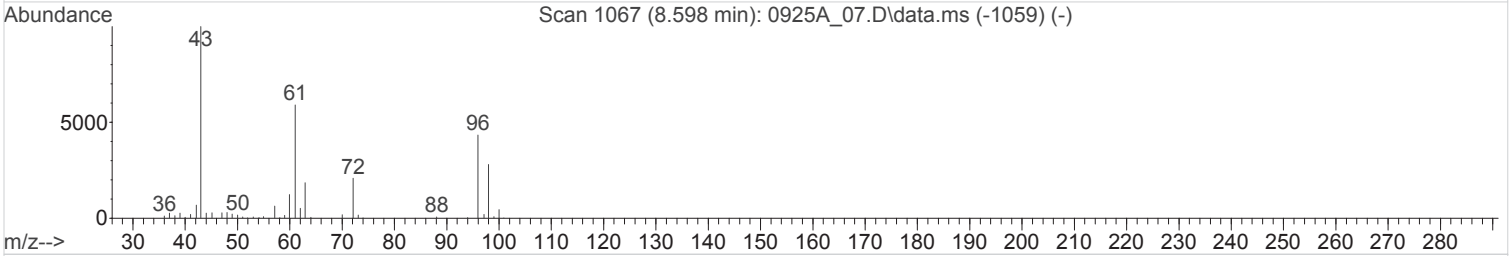
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.628min (+0.027) 0.1347453 ppbv m

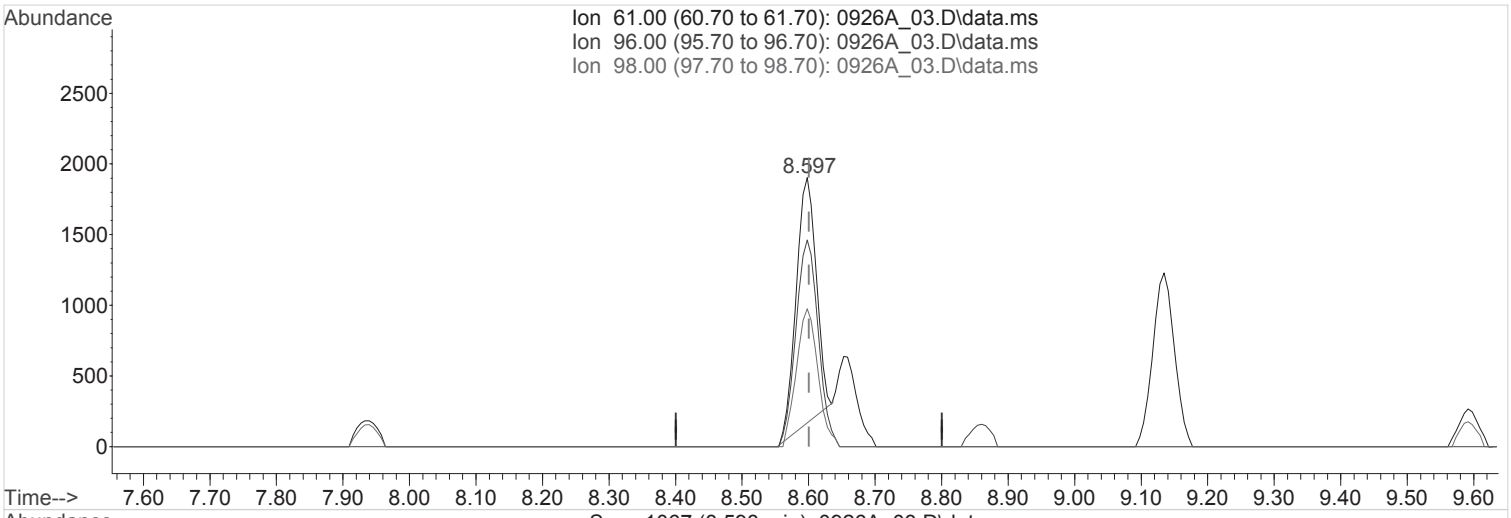
response 15596

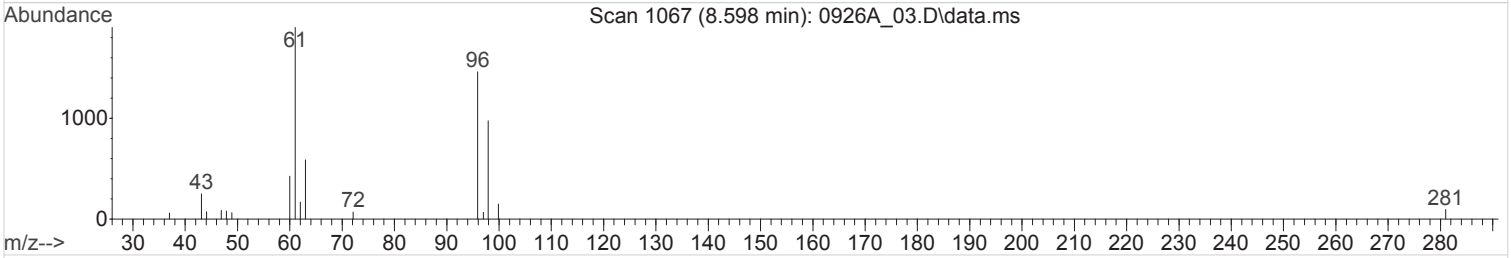
Ion	Exp%	Act%
72.00	100	100
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

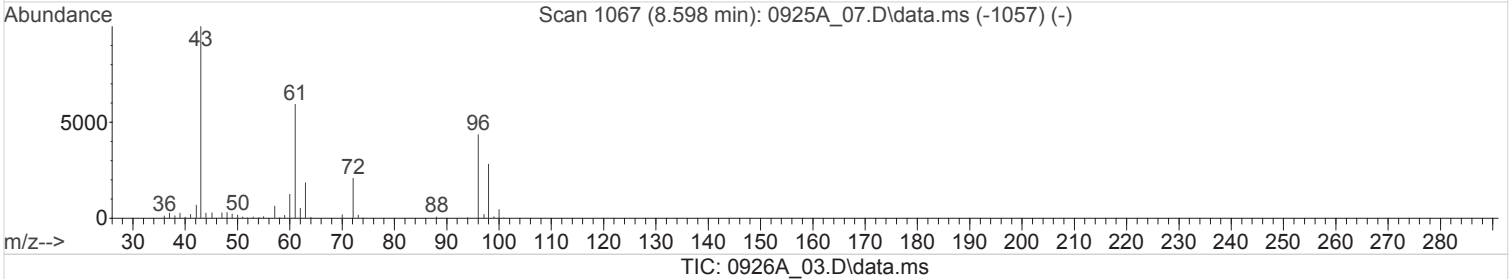
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.600min (-0.001) 0.0848361 ppbv

Qvalue = 42

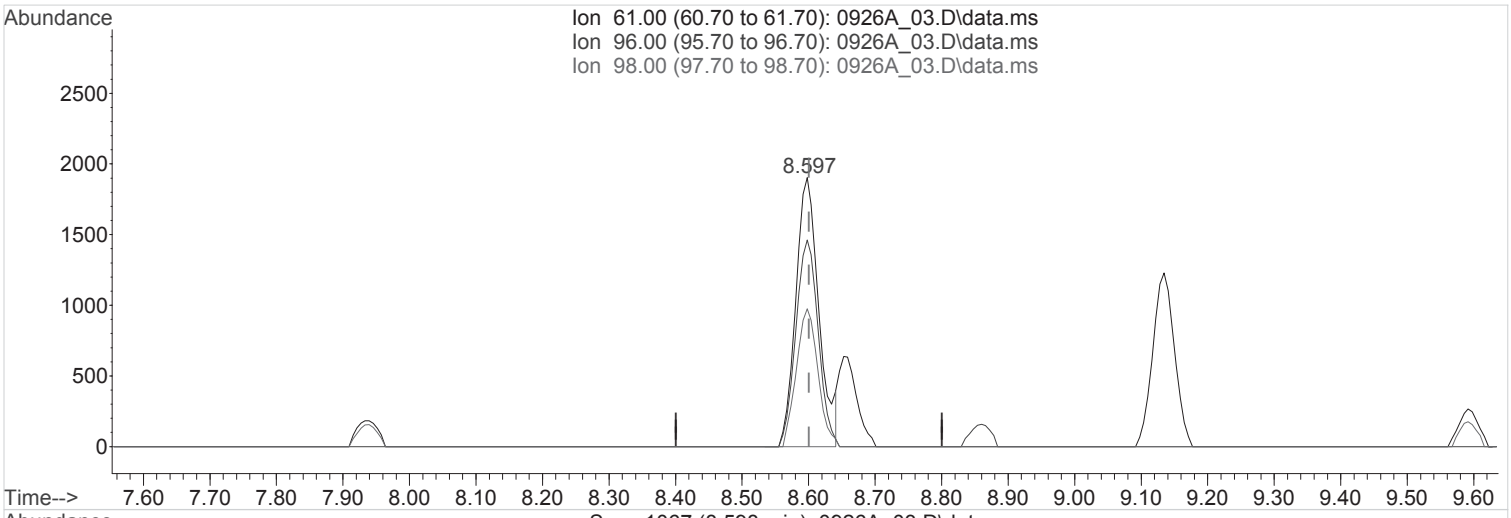
response 35898

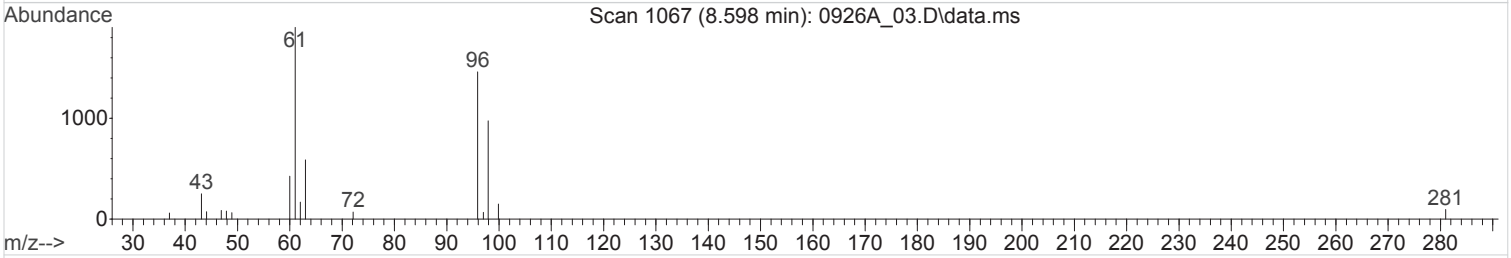
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	95.34#
98.00	34.80	0.00#
0.00	0.00	0.00

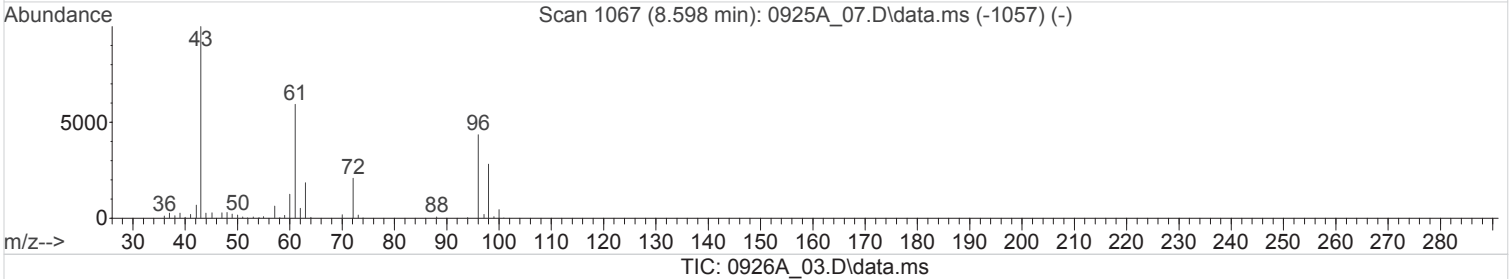
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.598min (-0.003) 0.1103501 ppbv m

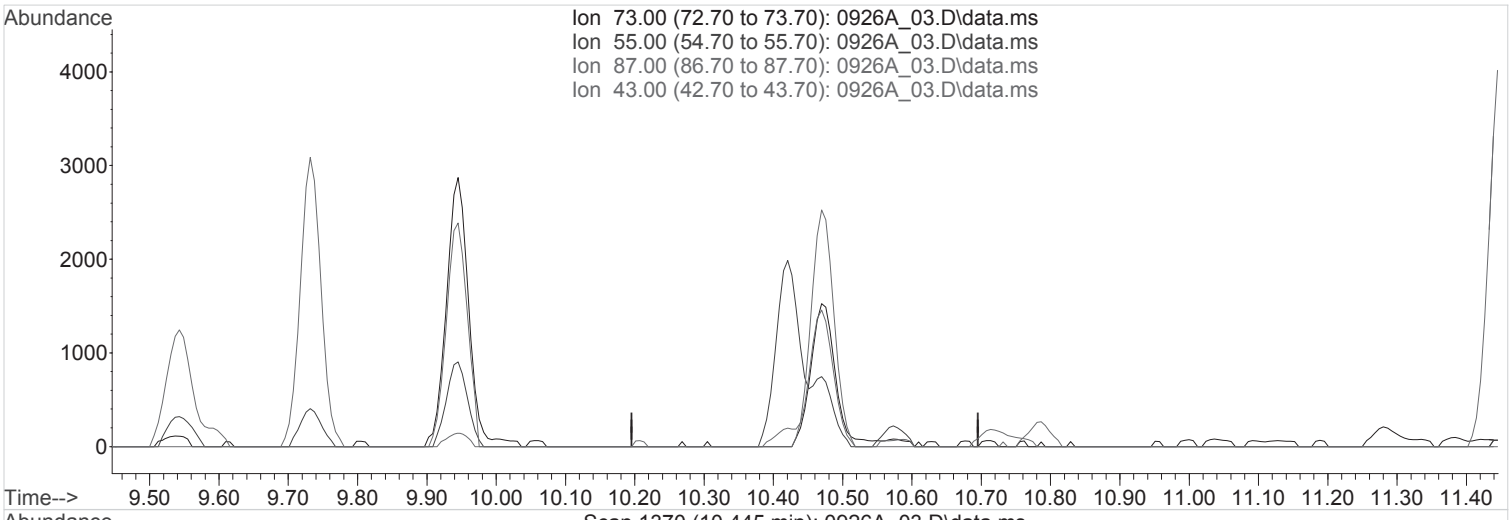
response 46695

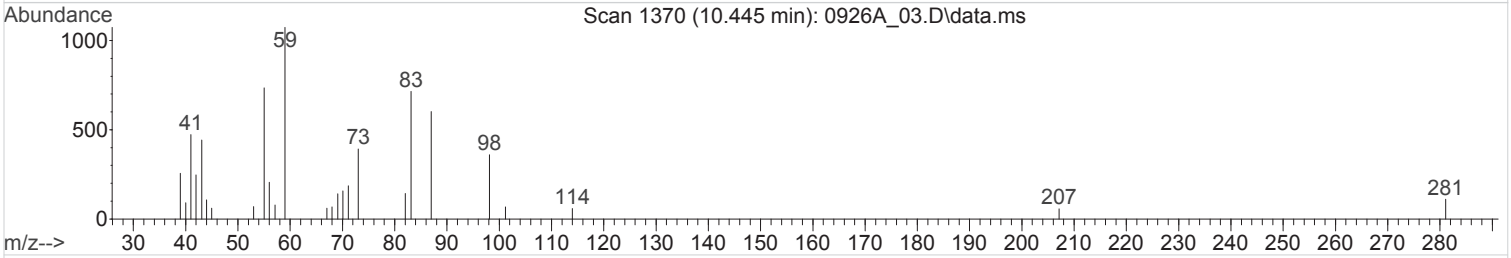
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	73.30#
98.00	34.80	0.00#
0.00	0.00	0.00

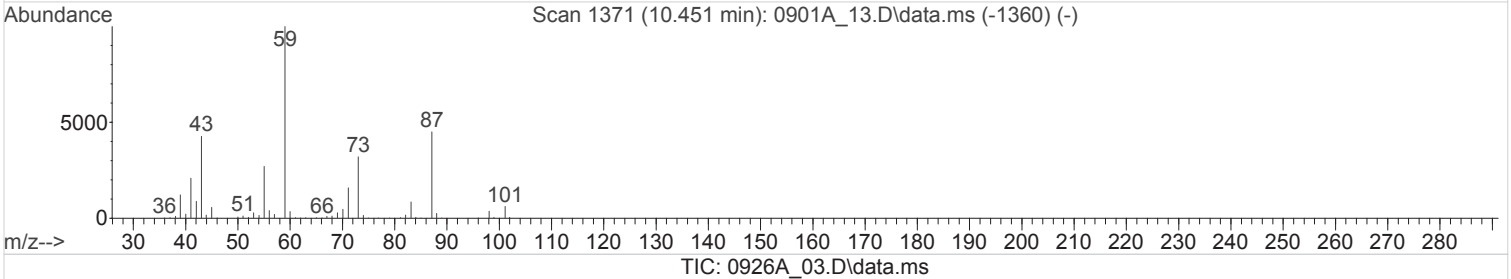
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(42) TERT-AMYL ETHYL ETHER

10.446min (-10.446) 0.0000000 ppbv

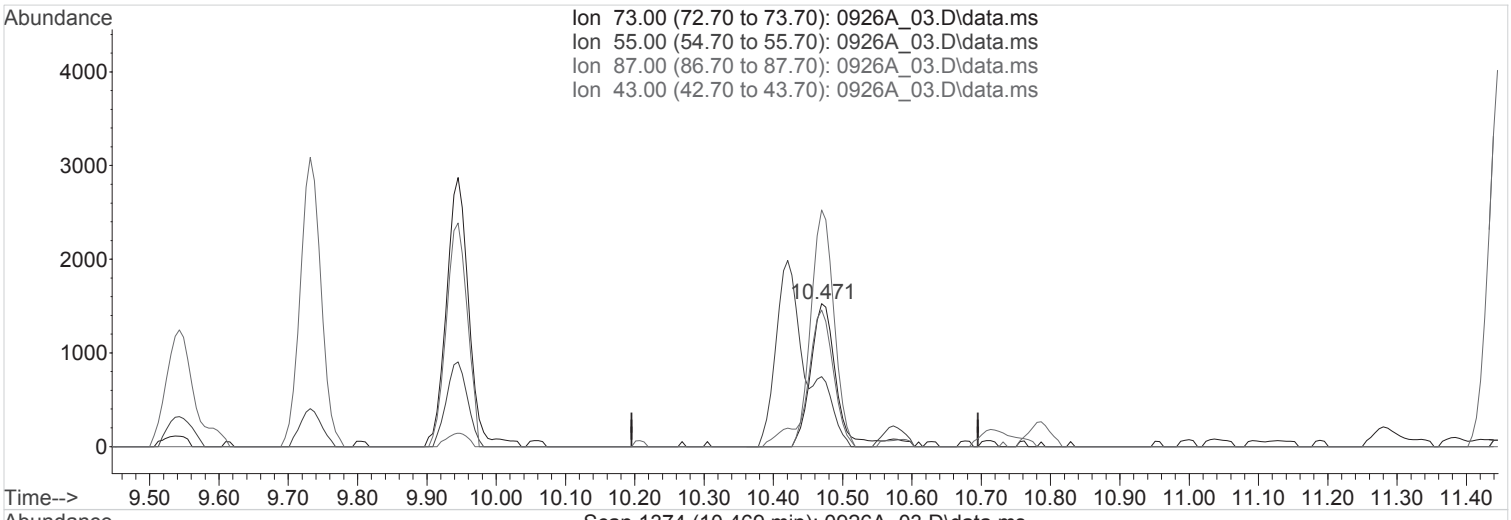
Qvalue = 0

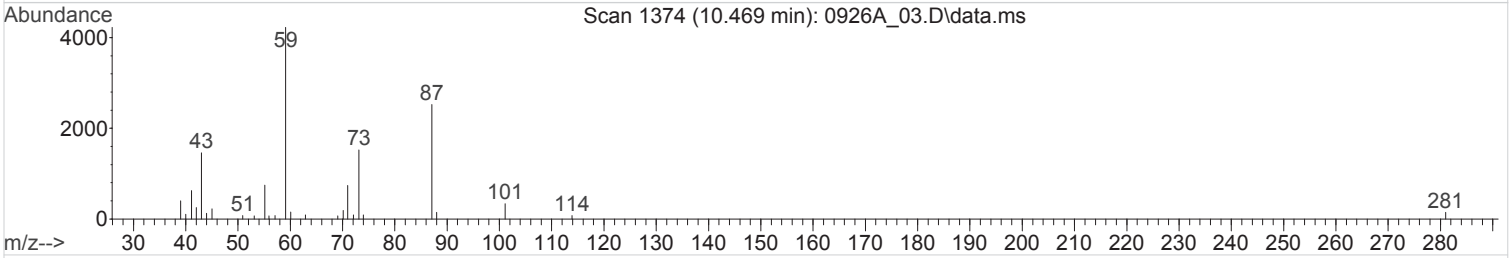
response 0

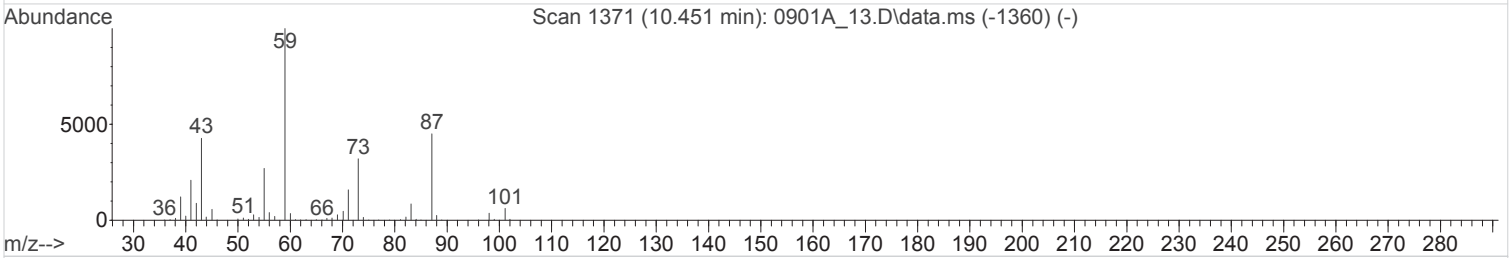
Ion	Exp%	Act%
73.00	100	0.00
55.00	207.10	0.00#
87.00	151.10	0.00#
43.00	111.00	0.00#

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(42) TERT-AMYL ETHYL ETHER

10.469min (+0.024) 0.1724115 ppbv m

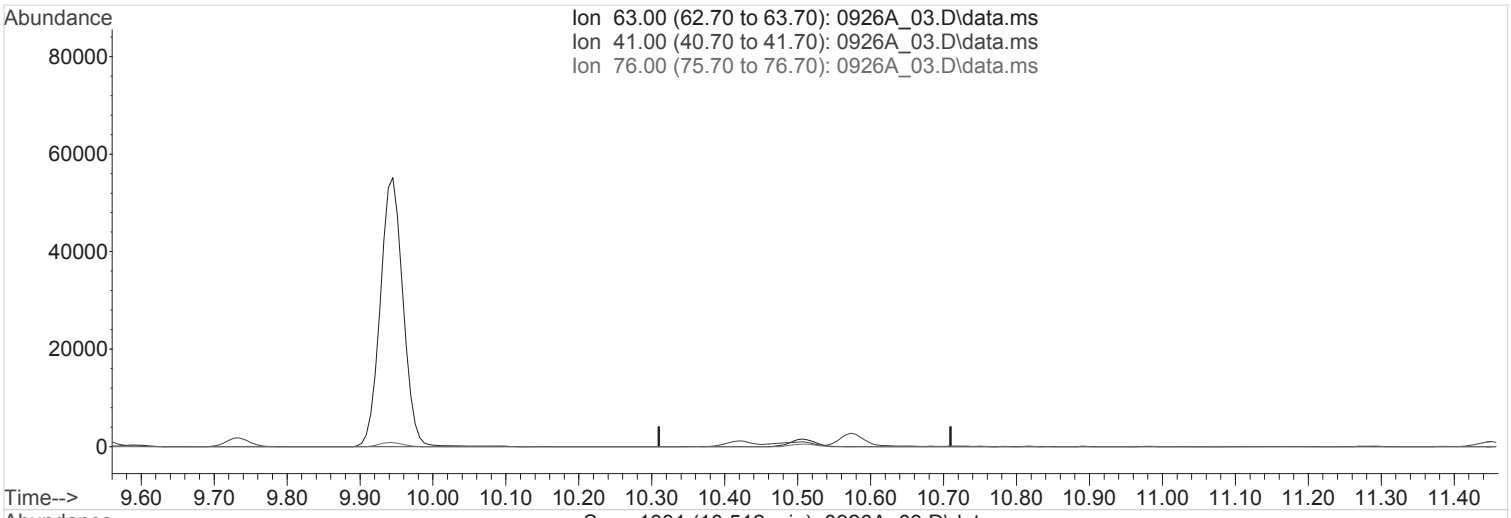
response 39867

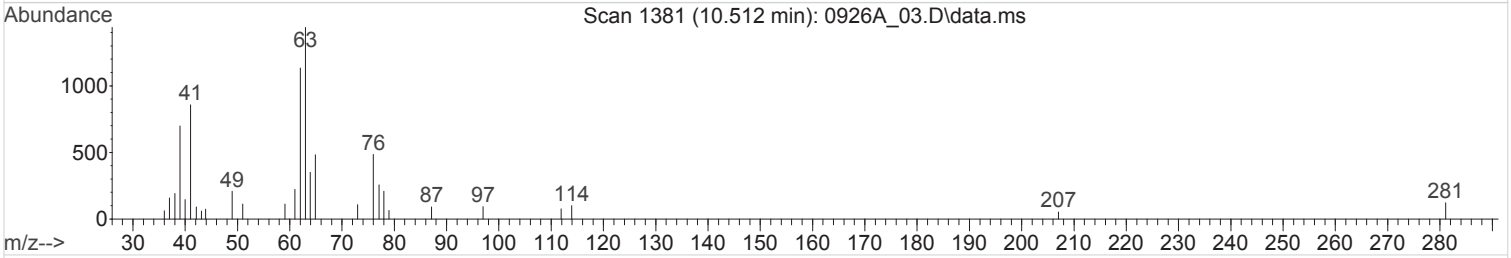
Ion	Exp%	Act%
73.00	100	100
55.00	207.10	0.00#
87.00	151.10	0.00#
43.00	111.00	0.00#

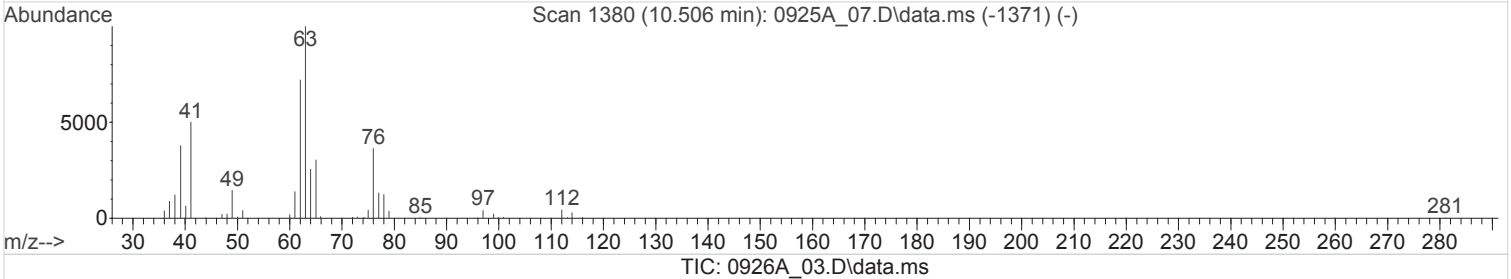
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(44) 1,2-Dichloropropane (T,M)

10.510min (-10.510) 0.0000000 ppbv

Qvalue = 0

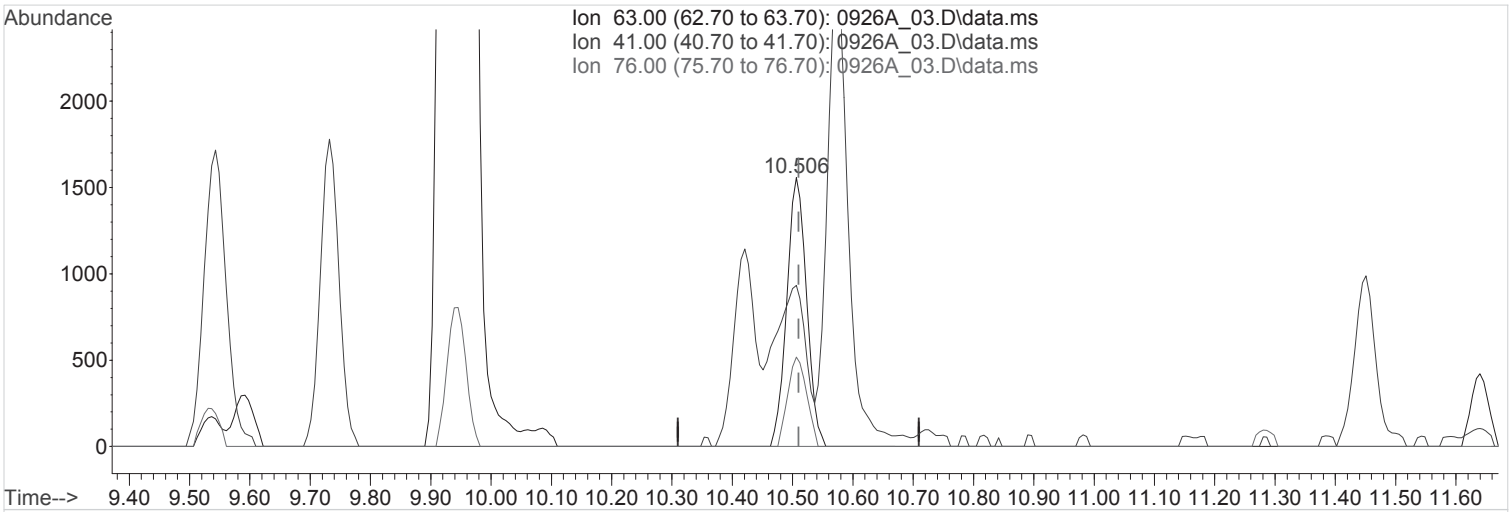
response 0

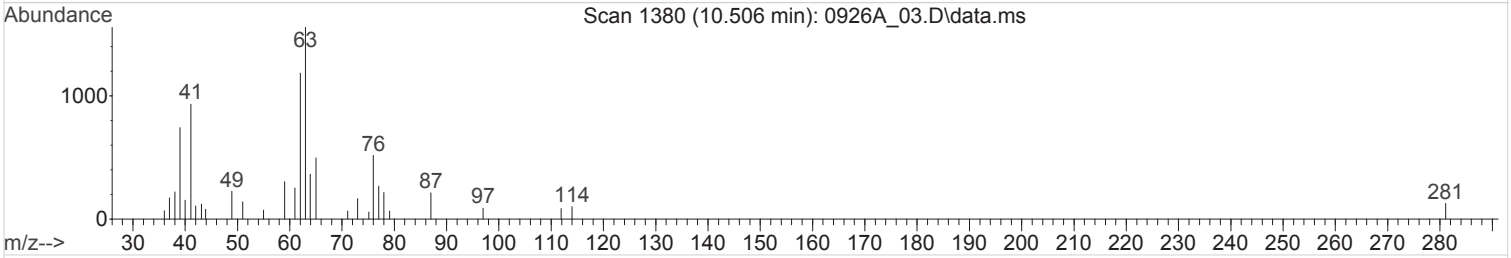
Ion	Exp%	Act%
63.00	100	0.00
41.00	59.00	0.00#
76.00	35.50	0.00#
0.00	0.00	0.00

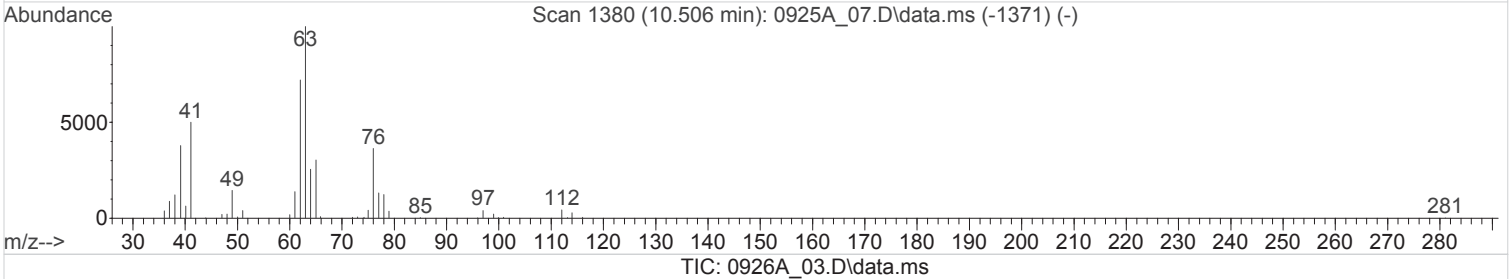
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(44) 1,2-Dichloropropane (T,M)

10.506min (-0.004) 0.1254391 ppbv m

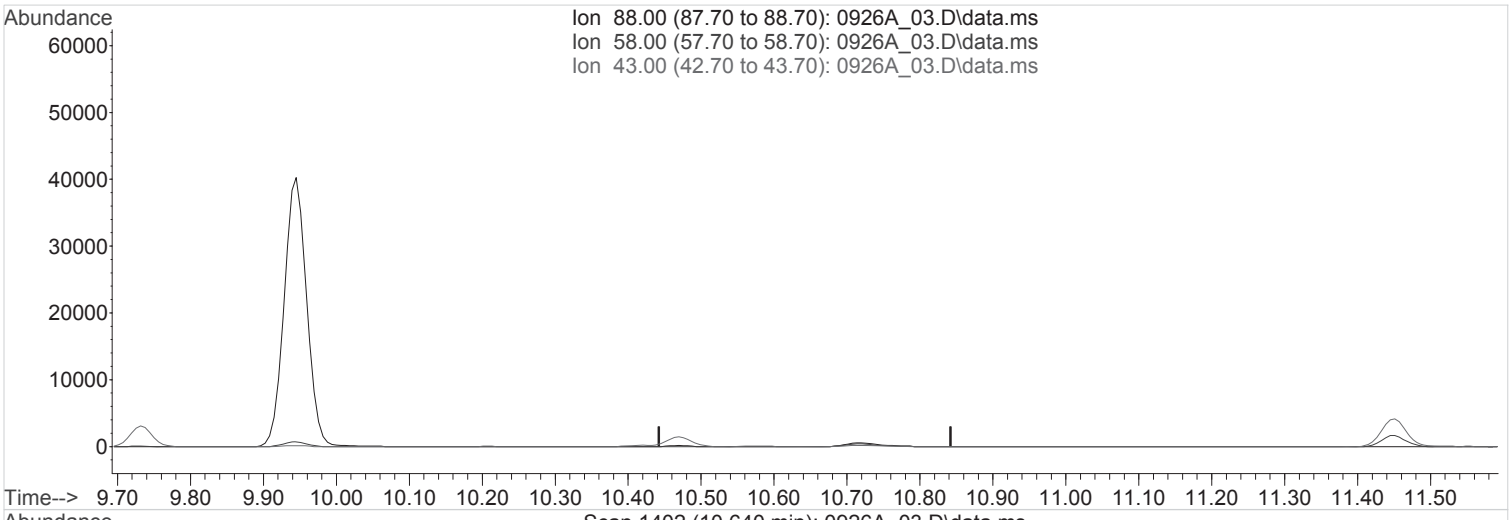
response 35512

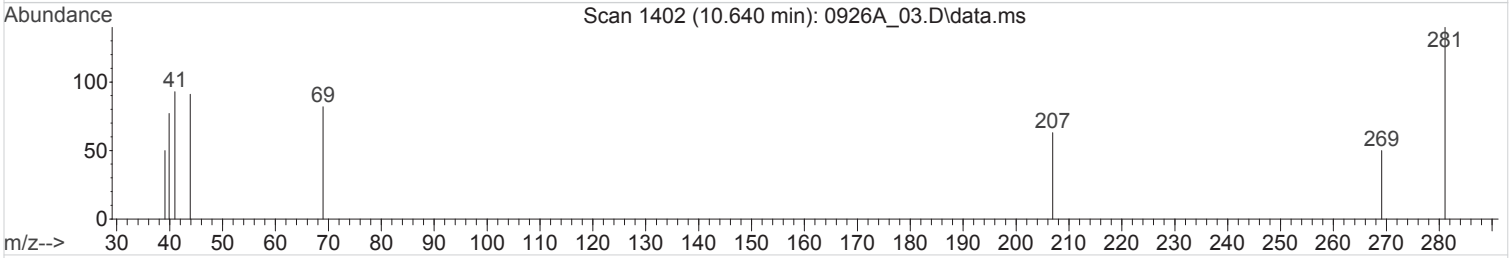
Ion	Exp%	Act%
63.00	100	100
41.00	59.00	0.00#
76.00	35.50	0.00#
0.00	0.00	0.00

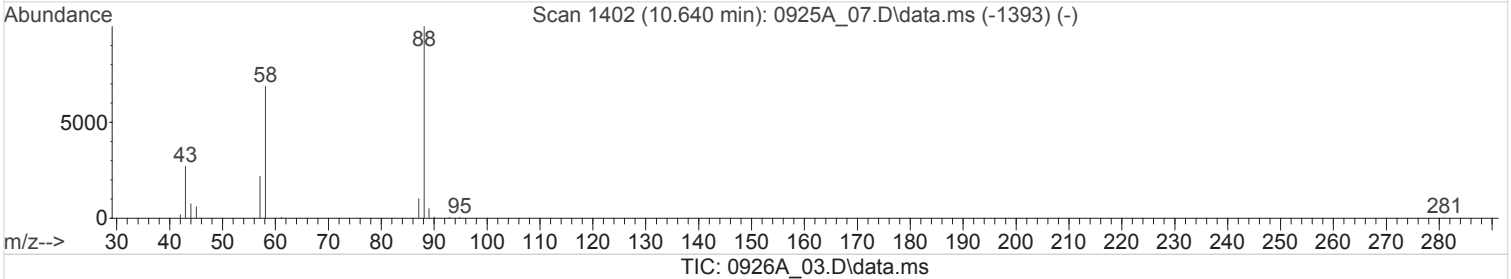
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(46) 1,4-Dioxane (T,M)

10.642min (-10.642) 0.0000000 ppbv

Qvalue = 0

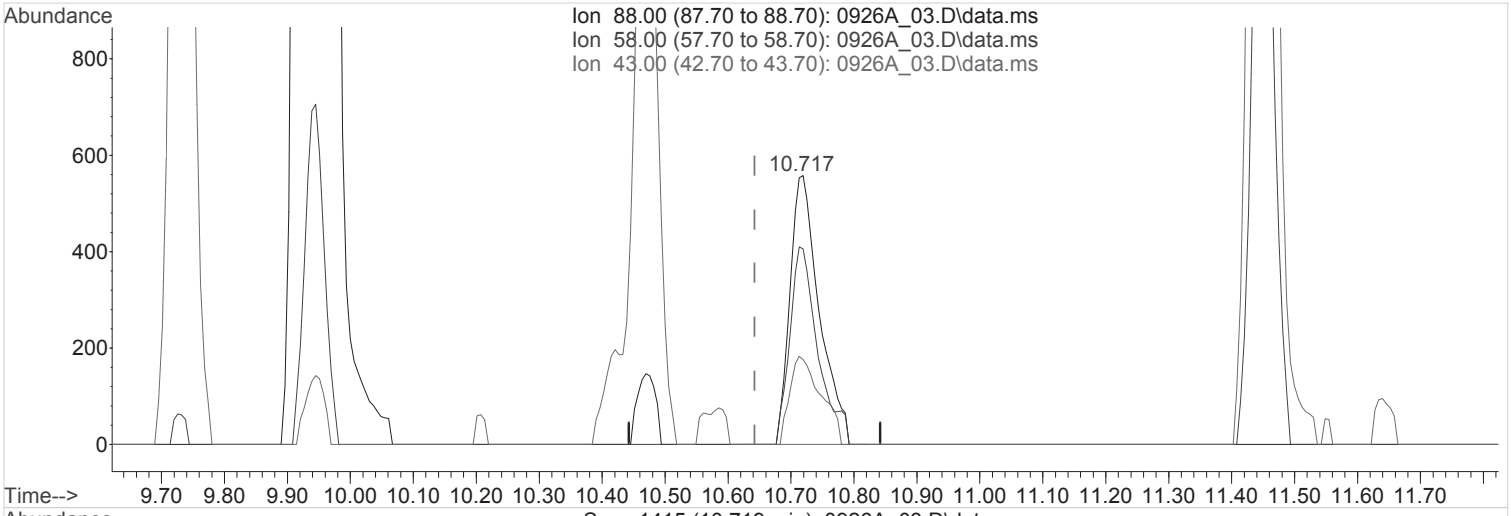
response 0

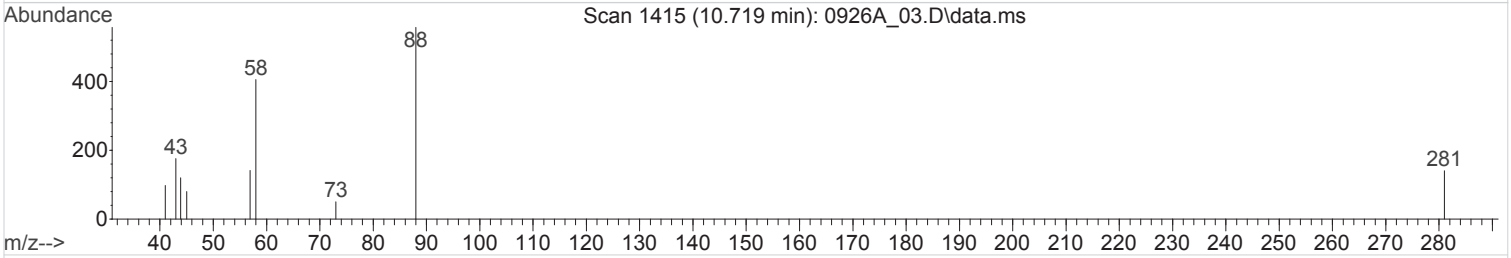
Ion	Exp%	Act%
88.00	100	0.00
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

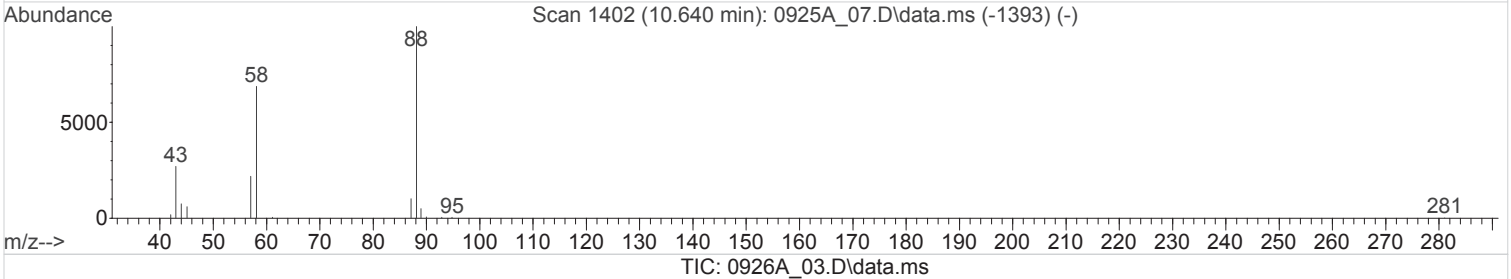
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(46) 1,4-Dioxane (T,M)

10.719min (+0.077) 0.1378051 ppbv m

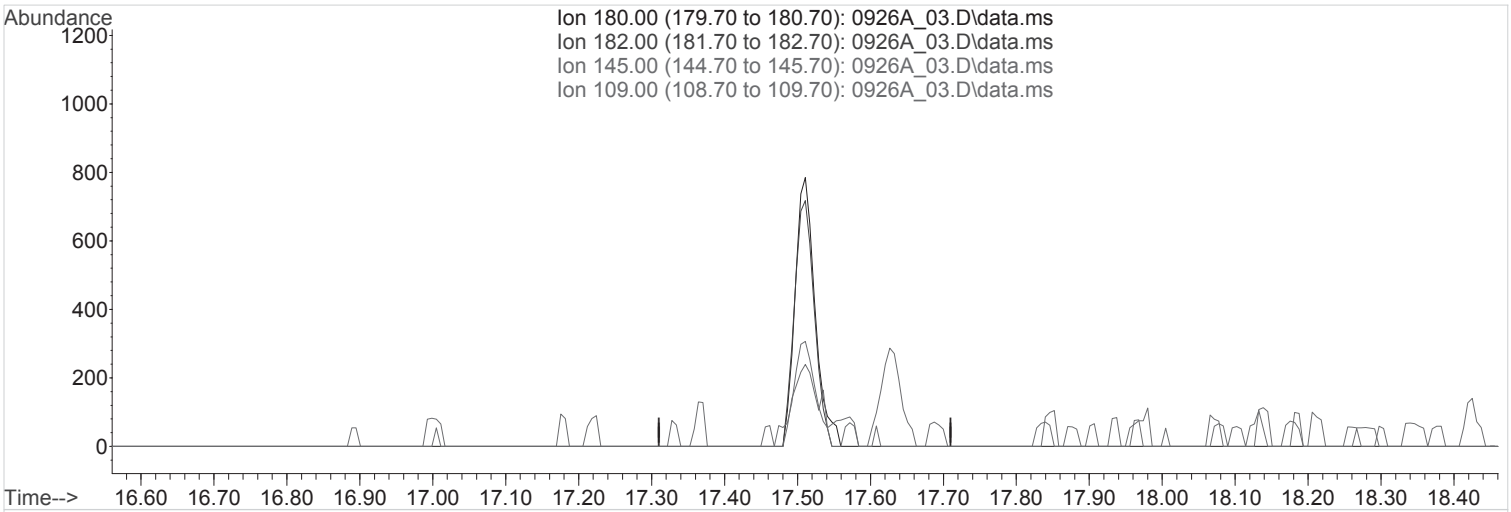
response 18034

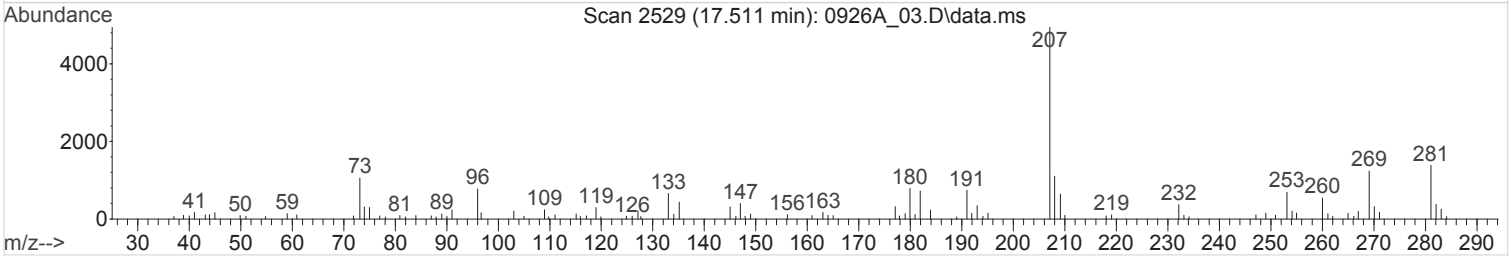
Ion	Exp%	Act%
88.00	100	100
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

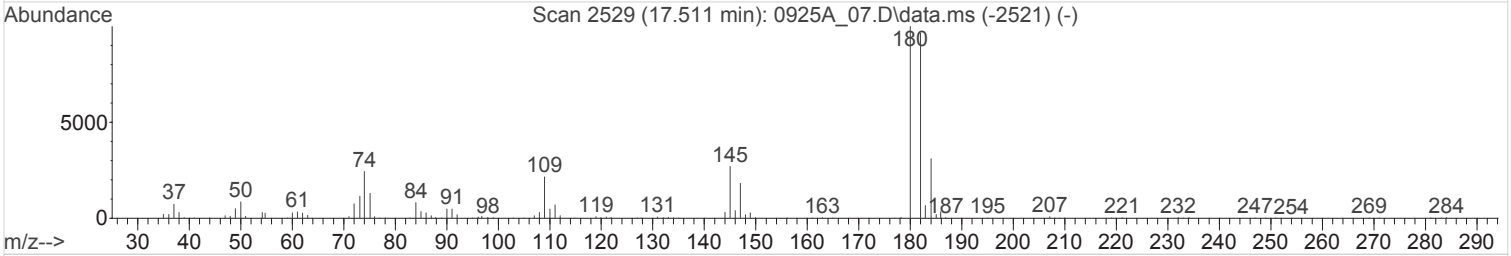
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration







TIC: 0926A_03.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.510min (-17.510) 0.0000000 ppbv

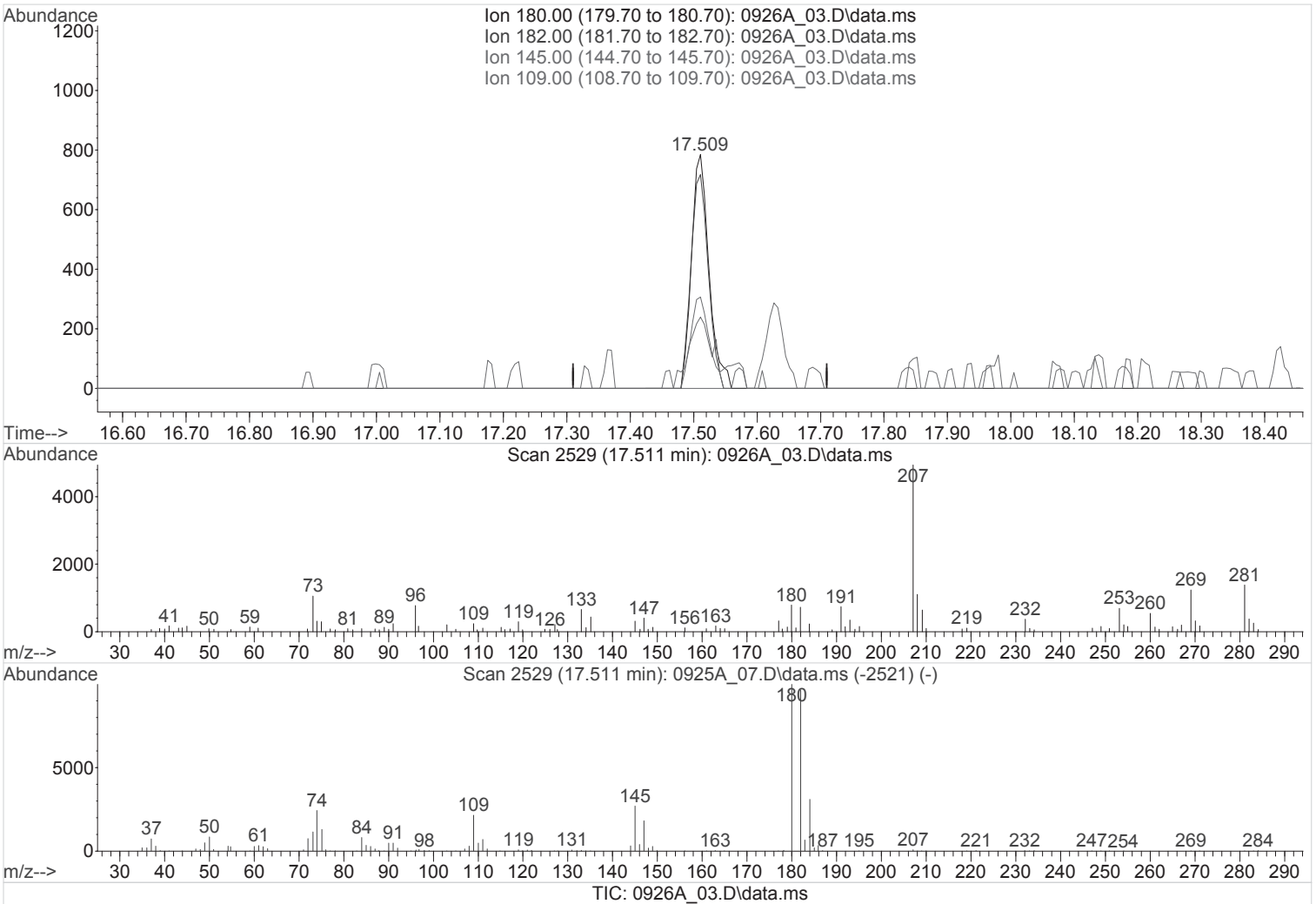
Qvalue = 0

response 0

Ion	Exp%	Act%
180.00	100	0.00
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_03.D
Acq On : 26 Sep 2016 1:14 pm
Operator : 564
Sample : STD AMS 0.19 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:45:08 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:44:55 2016
Response via : Initial Calibration



TIC: 0926A_03.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.511min (+0.000) 0.0868374 ppbv m

response 14992

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.865	130	1297713	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	5285157	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3832169	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2199251	3.8140087	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 95.35%				
Target Compounds							Qvalue
2) Propene	4.086	41	54413	0.2699350	ppbv		98
3) 1,1-DIFLUOROETHANE	4.093	65	37524m	0.3045783	ppbv		
4) Dichlorodifluoromethane	4.148	85	121842	0.2951105	ppbv		99
5) CHLORODIFLUOROMETHANE	4.184	67	13230m	0.2858821	ppbv		
6) 1,2-Dichlorotetrafluor...	4.384	85	134712	0.2832656	ppbv		96
7) Chloromethane	4.487	50	56793	0.2793977	ppbv	#	43
8) Vinyl Chloride	4.684	62	59235	0.2746238	ppbv	#	43
9) 1,3-Butadiene	4.749	39	46557	0.2532123	ppbv		94
10) Bromomethane	5.244	94	48644	0.2919923	ppbv		97
11) Chloroethane	5.403	64	29904m	0.2659245	ppbv		
12) Vinyl Bromide	5.677	106	47577	0.2921744	ppbv		98
13) Trichlorofluoromethane	5.757	101	105927	0.2896672	ppbv		99
14) Ethanol	6.129	45	7206m	0.2480676	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.455	101	99928	0.2916267	ppbv		99
16) 1,1-Dichloroethene	6.481	61	87402	0.2903885	ppbv		95
17) Acetone	6.617	43	166751	0.2663424	ppbv		98
18) 2-Propanol	6.812	45	108104	0.2814954	ppbv	#	74
19) Carbon Disulfide	6.775	76	153834	0.2944873	ppbv		95
20) Allyl Chloride	6.950	41	77608	0.2826118	ppbv	#	45
21) Methylene Chloride	7.118	49	79901	0.2913627	ppbv		94
22) TERT-BUTYL ALCOHOL	7.317	59	138526	0.2943889	ppbv		95
23) Methyl Tert-Butyl Ether	7.467	73	171953	0.3041533	ppbv		99
24) Trans-1,2-Dichloroethene	7.425	96	56966	0.3106627	ppbv		98
25) n-Hexane	7.691	57	97521	0.3107372	ppbv		98
26) 1,1-Dichloroethane	7.938	63	108078	0.3146059	ppbv	#	69
27) Vinyl Acetate	7.979	43	100118	0.2873704	ppbv	#	77
28) ETHYL ACETATE	8.653	70	15107m	0.2734495	ppbv		
29) 2-Butanone (MEK)	8.622	72	27366m	0.2934729	ppbv		
30) cis-1,2-Dichloroethene	8.598	61	89654m	0.2843486	ppbv		
31) Tetrahydrofuran	8.955	42	82221	0.3189612	ppbv		96
32) Chloroform	8.923	83	111257	0.3193742	ppbv		99
33) Cyclohexane	9.169	84	81305	0.3076988	ppbv		97
34) 1,1,1-Trichloroethane	9.138	97	102867	0.3167586	ppbv		98
35) Carbon Tetrachloride	9.303	117	92118	0.2957886	ppbv		98
36) 2,2,4-Trimethylpentane	9.545	57	328922	0.3165665	ppbv	#	89
38) Benzene	9.536	78	190536	0.3068245	ppbv		94
39) 1,2-Dichloroethane	9.591	62	77592	0.3181454	ppbv	#	42
40) Heptane	9.735	43	131346	0.3217457	ppbv	#	64
41) Trichloroethene	10.240	95	75657	0.3165160	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.466	73	66808	0.3201486	ppbv		92
43) METHYL CYCLOHEXANE	10.424	83	106774	0.3187208	ppbv	#	91
44) 1,2-Dichloropropane	10.509	63	73434	0.3302284	ppbv	#	28
45) Methyl Methacrylate	10.575	69	74885	0.3057085	ppbv		97
46) 1,4-Dioxane	10.695	88	32552m	0.3047368	ppbv		
47) Bromodichloromethane	10.785	83	112256	0.3062527	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

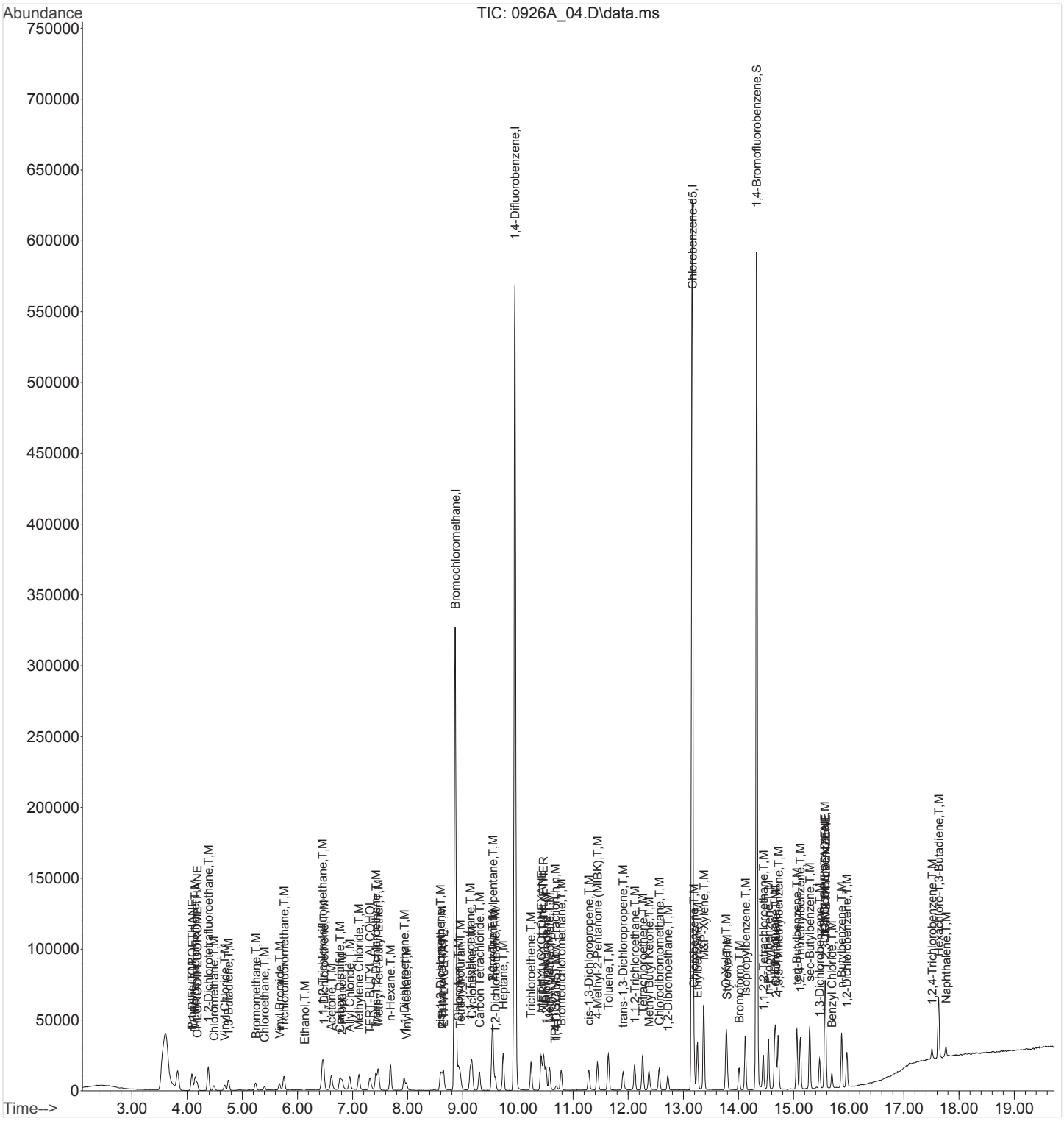
Quant Time: Sep 27 07:50:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	99879	0.2859074	ppbv	100
49) 4-Methyl-2-Pentanone (...	11.443	43	182922	0.3229604	ppbv #	90
50) Toluene	11.641	91	225135	0.3048711	ppbv	99
51) trans-1,3-Dichloropropene	11.909	75	82094	0.2913914	ppbv	98
52) 1,1,2-Trichloroethane	12.119	97	66287	0.2893705	ppbv	99
53) Tetrachloroethene	12.265	166	94551	0.3001694	ppbv	99
54) Methyl Butyl Ketone	12.378	43	124369	0.2970637	ppbv #	94
55) Chlorodibromomethane	12.564	129	97295	0.2859412	ppbv	99
56) 1,2-Dibromoethane	12.721	107	86222	0.2827701	ppbv	100
57) Chlorobenzene	13.193	112	139265	0.2854139	ppbv #	69
59) Ethylbenzene	13.257	91	257538	0.2979238	ppbv	99
60) M&P-Xylene	13.372	91	387012	0.5479177	ppbv	99
61) O-Xylene	13.776	91	199415	0.2942599	ppbv	98
62) Styrene	13.793	104	130217	0.2825607	ppbv	96
63) Bromoform	14.012	173	81726	0.2702001	ppbv	98
64) Isopropylbenzene	14.125	105	281602	0.3050452	ppbv #	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	141963	0.2972669	ppbv	100
66) n-Propylbenzene	14.544	91	313437	0.2913280	ppbv	99
67) 4-Ethyltoluene	14.660	105	248181	0.2772718	ppbv	99
68) 2-Chlorotoluene	14.680	91	246755	0.3043404	ppbv	98
70) 1,3,5-Trimethylbenzene	14.722	105	231637	0.2972915	ppbv	99
71) tert-Butylbenzene	15.061	119	227026	0.3052065	ppbv	97
72) 1,2,4-Trimethylbenzene	15.123	105	227190	0.2950402	ppbv	97
73) sec-Butylbenzene	15.293	105	367304	0.3064654	ppbv	98
74) 1,3-Dichlorobenzene	15.473	146	98052	0.2412941	ppbv #	90
75) 1,4-Dichlorobenzene	15.570	146	87737	0.2296556	ppbv #	84
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	237706	0.3049803	ppbv	99
77) DICYCLOPENTADIENE	15.569	66	326559	0.3082804	ppbv	99
78) Benzyl Chloride	15.696	91	94205	0.2244927	ppbv	100
79) n-Butylbenzene	15.873	91	247692	0.2859191	ppbv	99
80) 1,2-Dichlorobenzene	15.969	146	115794	0.2703736	ppbv	100
81) 1,2,4-Trichlorobenzene	17.511	180	23573m	0.1932046	ppbv	
82) Hexachloro-1,3-Butadiene	17.632	225	94407	0.3136691	ppbv	99
83) Naphthalene	17.764	128	62597	0.1861081	ppbv #	77
84) TPH (GC/MS) Low Fraction	10.675	TIC	22731757m	14.5473087	ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

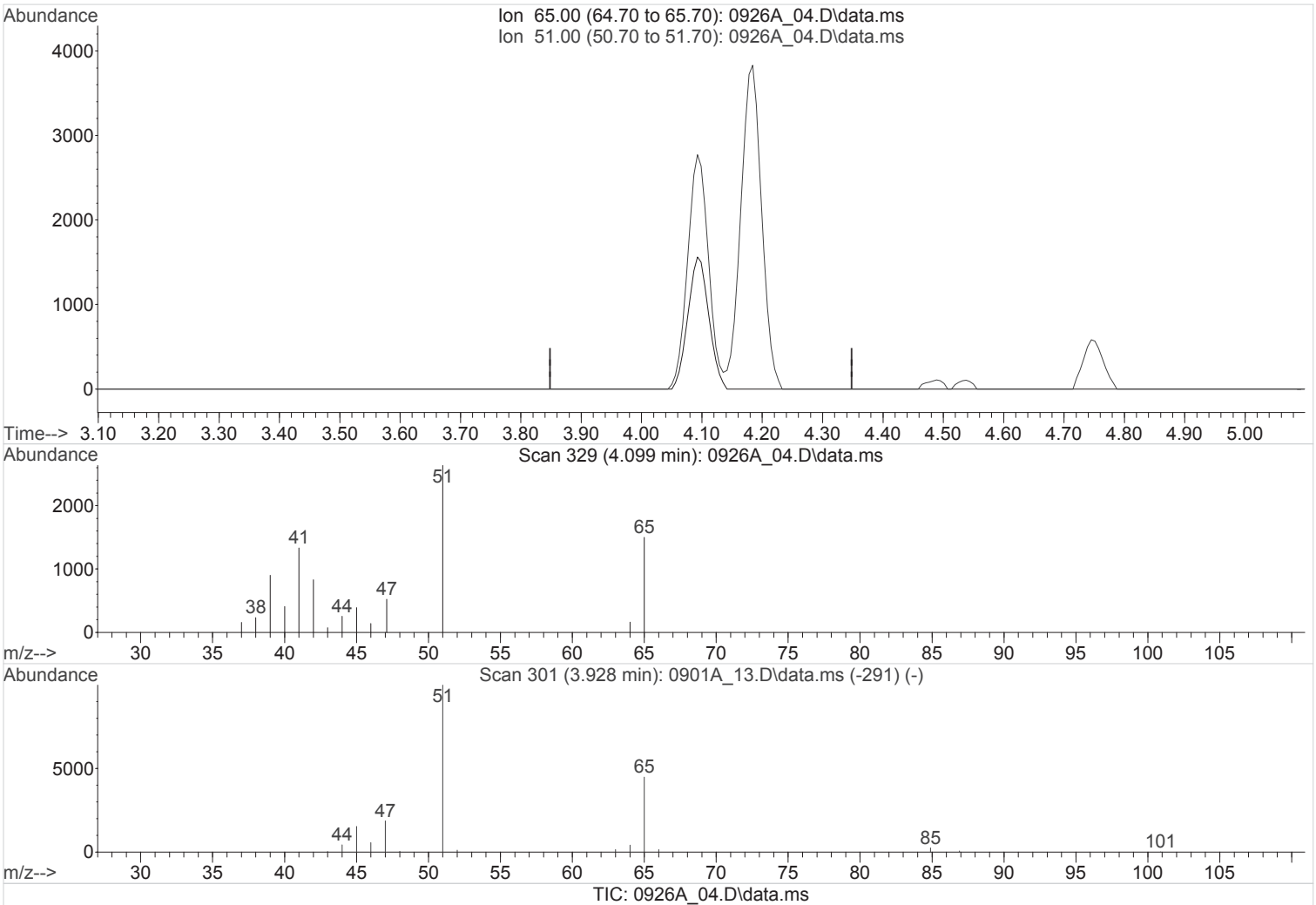
Quant Time: Sep 27 07:50:17 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(3) 1,1-DIFLUOROETHANE

4.099min (-4.099) 0.0000000 ppbv

Qvalue = 0

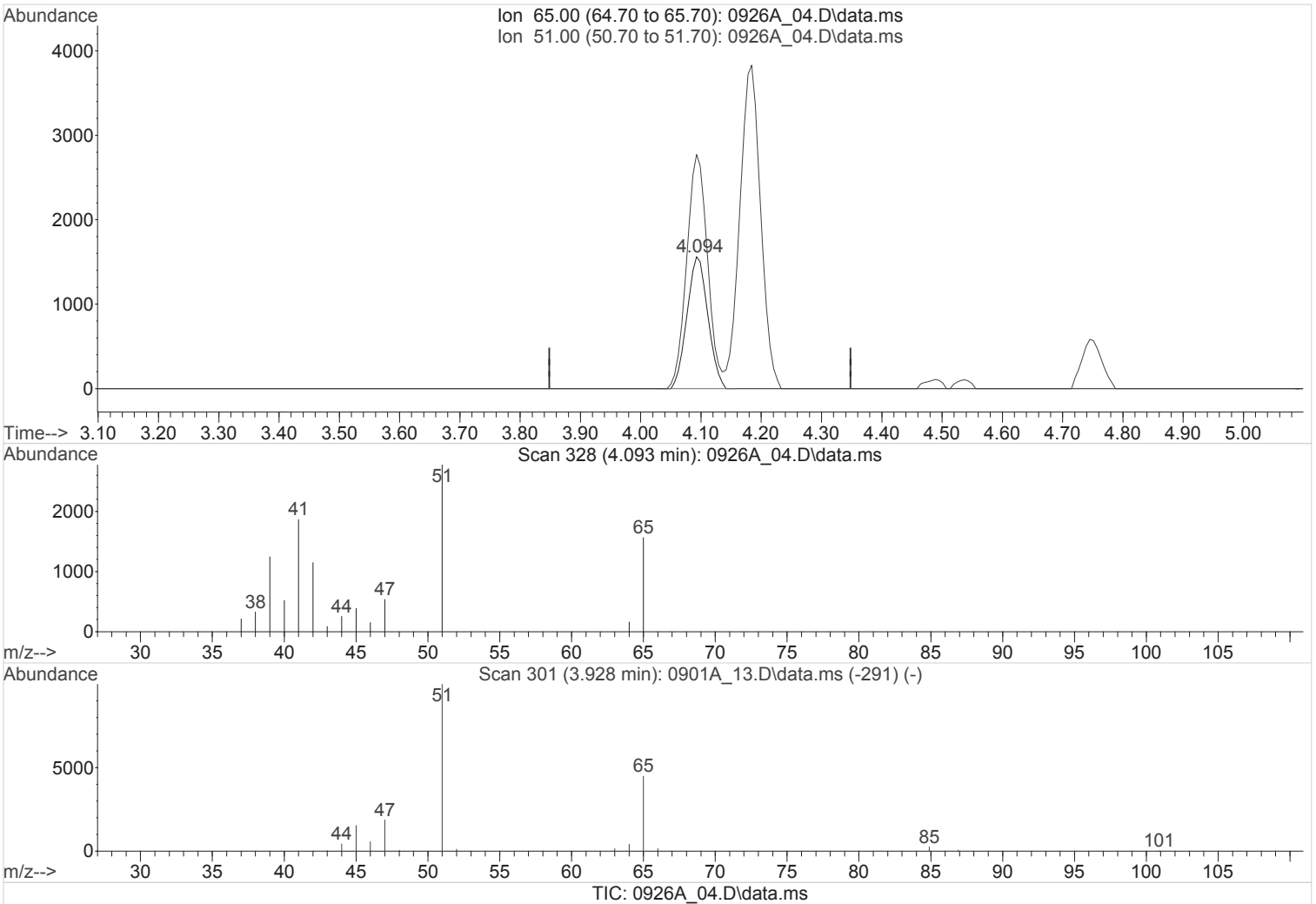
response 0

Ion	Exp%	Act%
65.00	100	0.00
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(3) 1,1-DIFLUOROETHANE

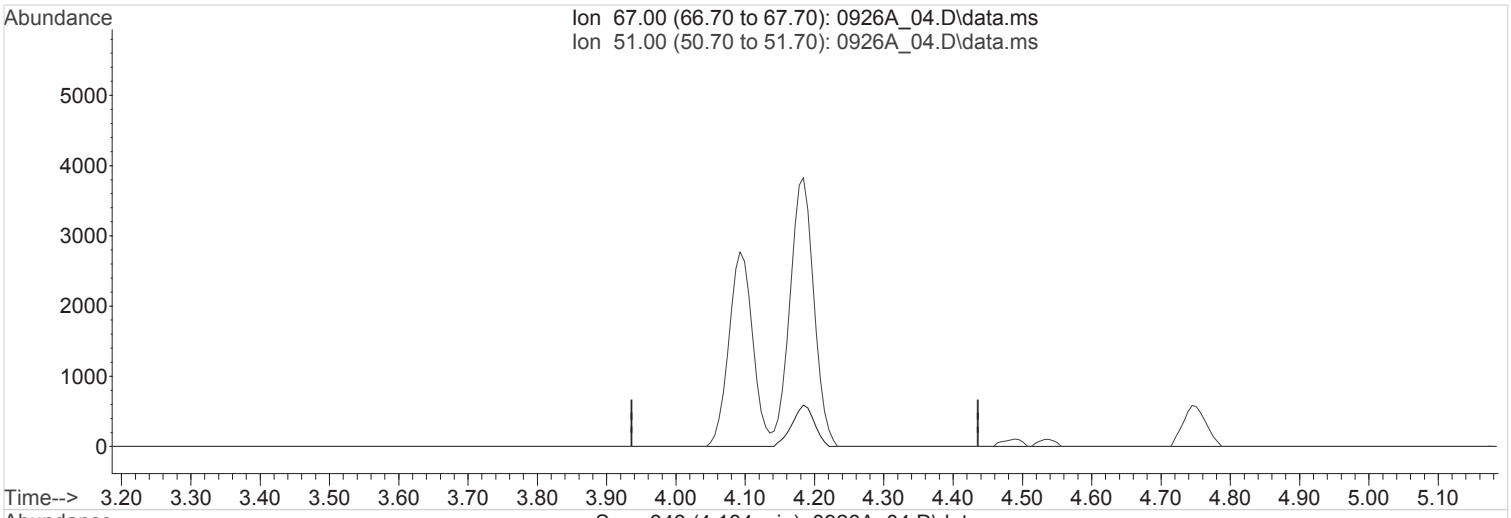
4.093min (-0.006) 0.3045783 ppbv m

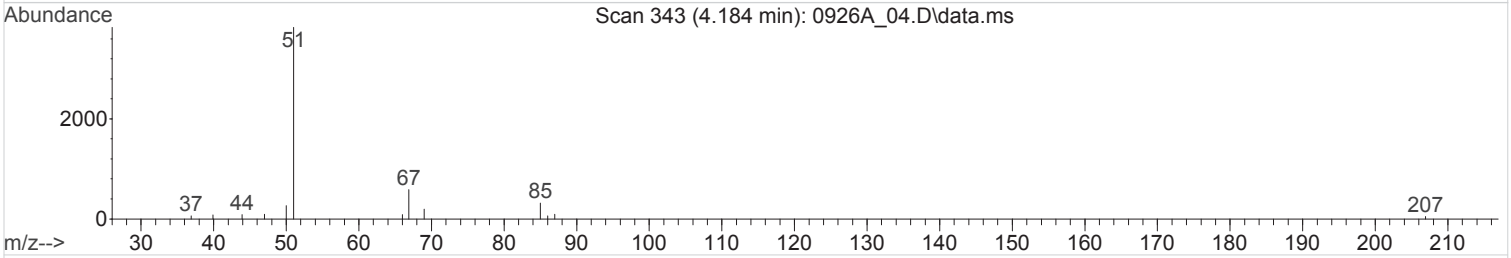
response 37524

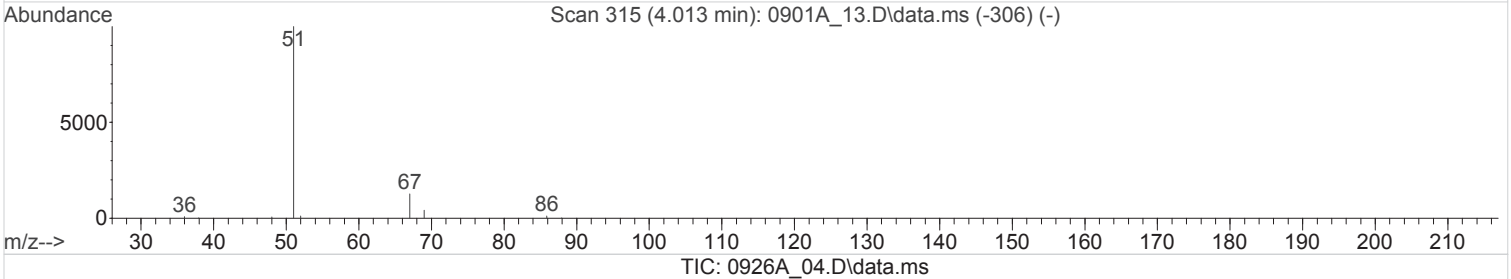
Ion	Exp%	Act%
65.00	100	100
51.00	193.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

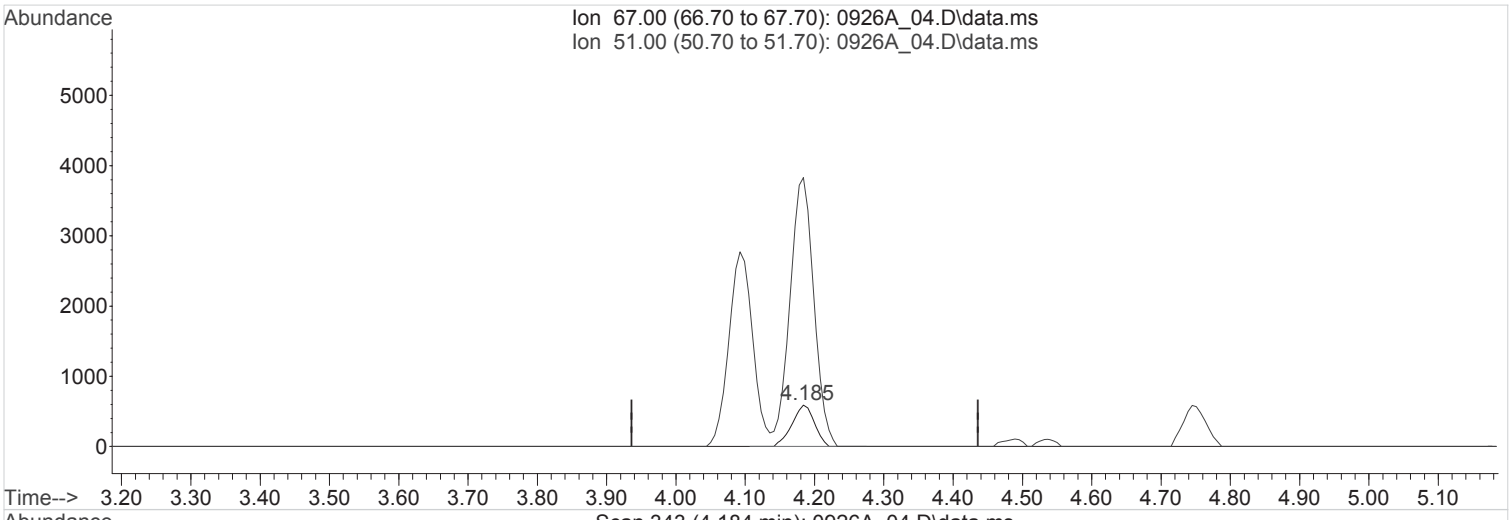
Qvalue = 0

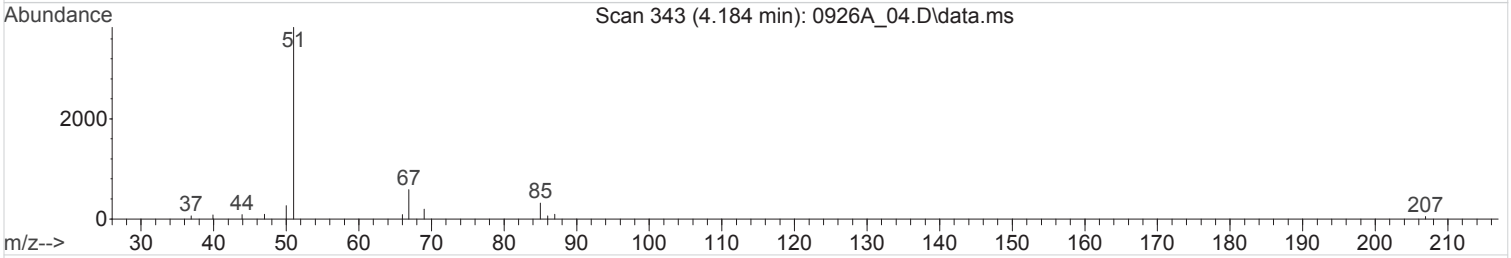
response 0

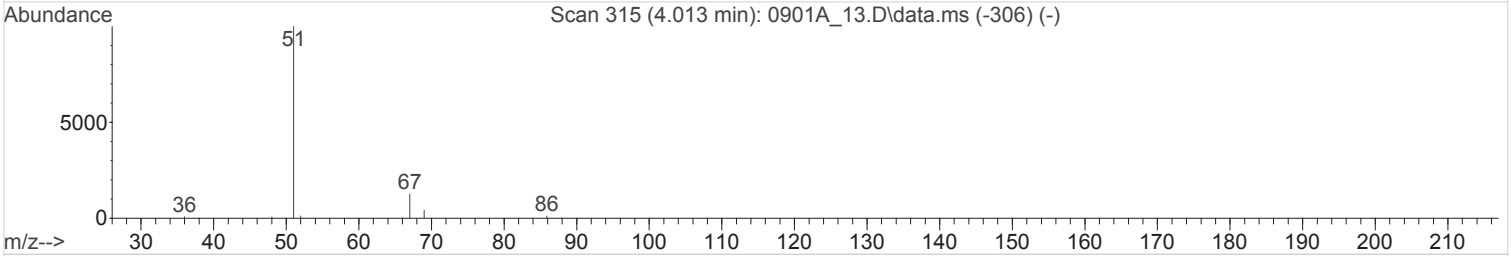
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.184min (-0.002) 0.2858821 ppbv m

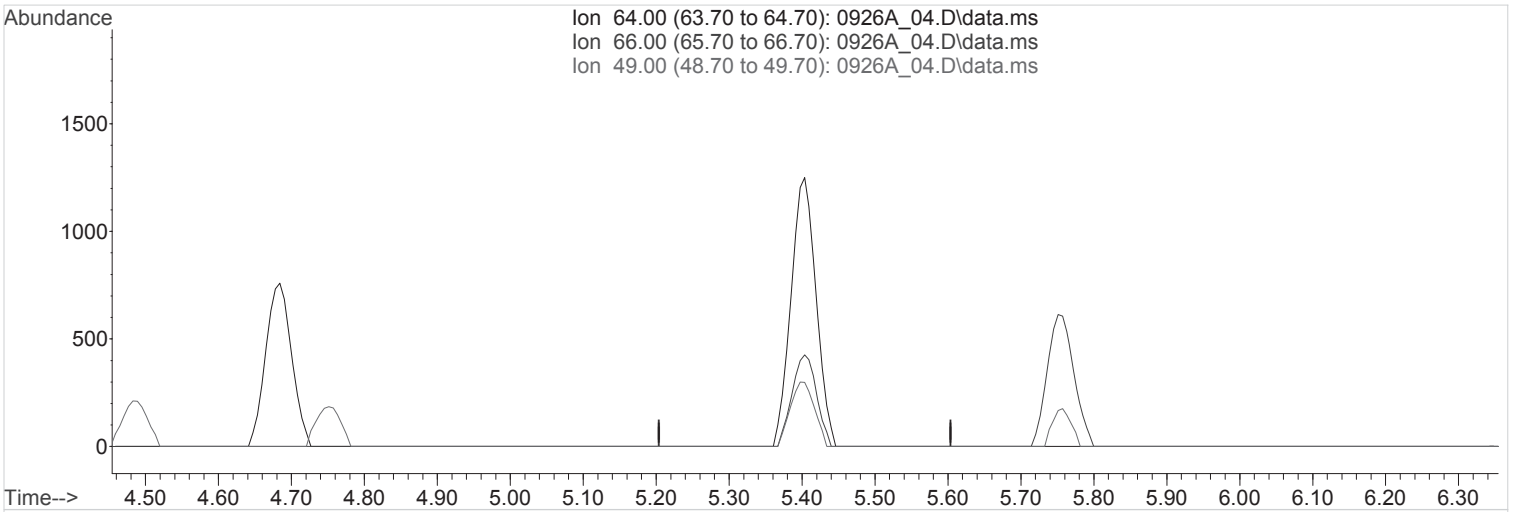
response 13230

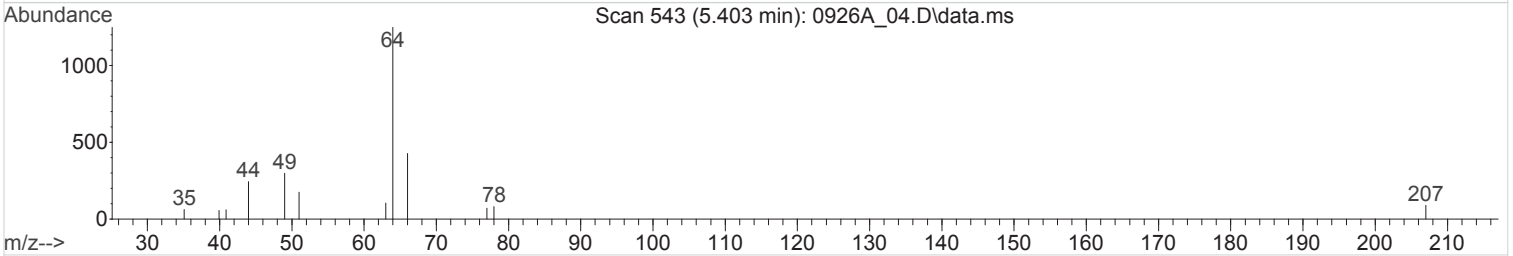
Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

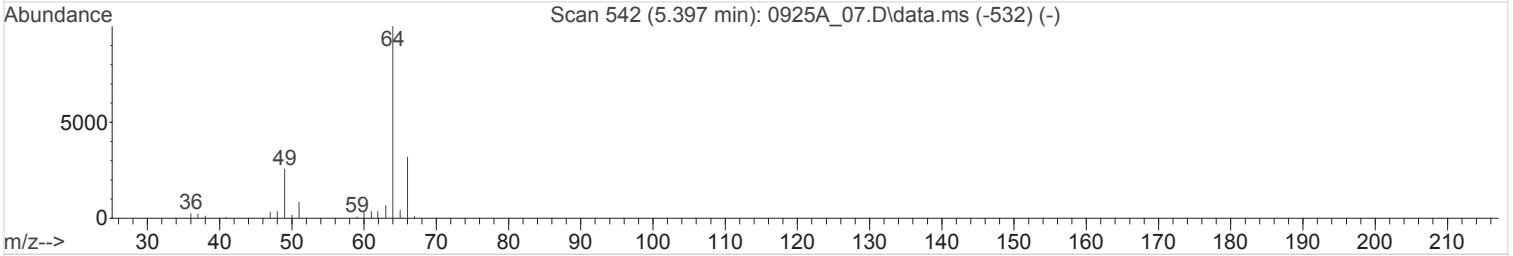
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(11) Chloroethane (T,M)

5.404min (-5.404) 0.0000000 ppbv

Qvalue = 0

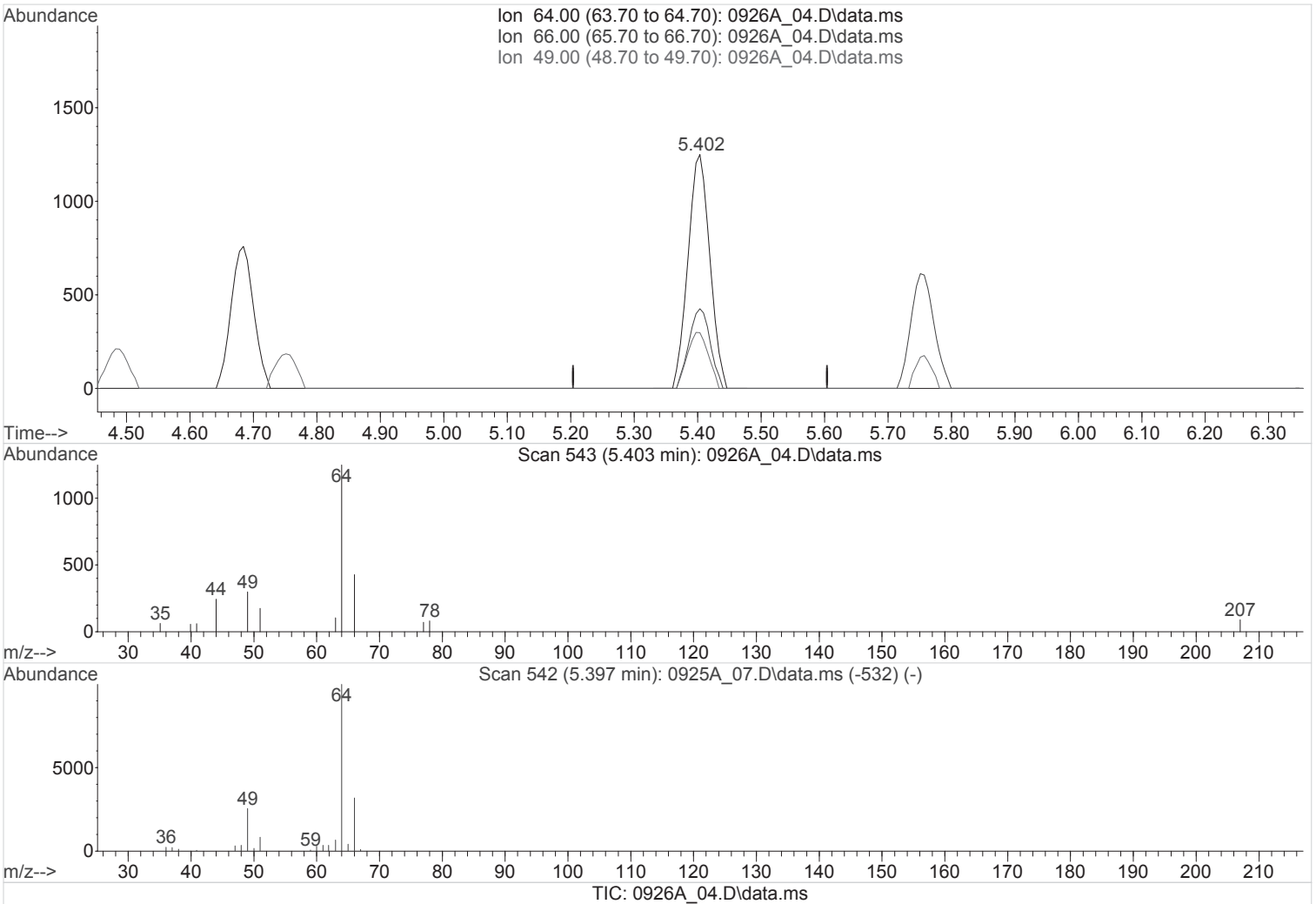
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(11) Chloroethane (T,M)

5.403min (-0.001) 0.2659245 ppbv m

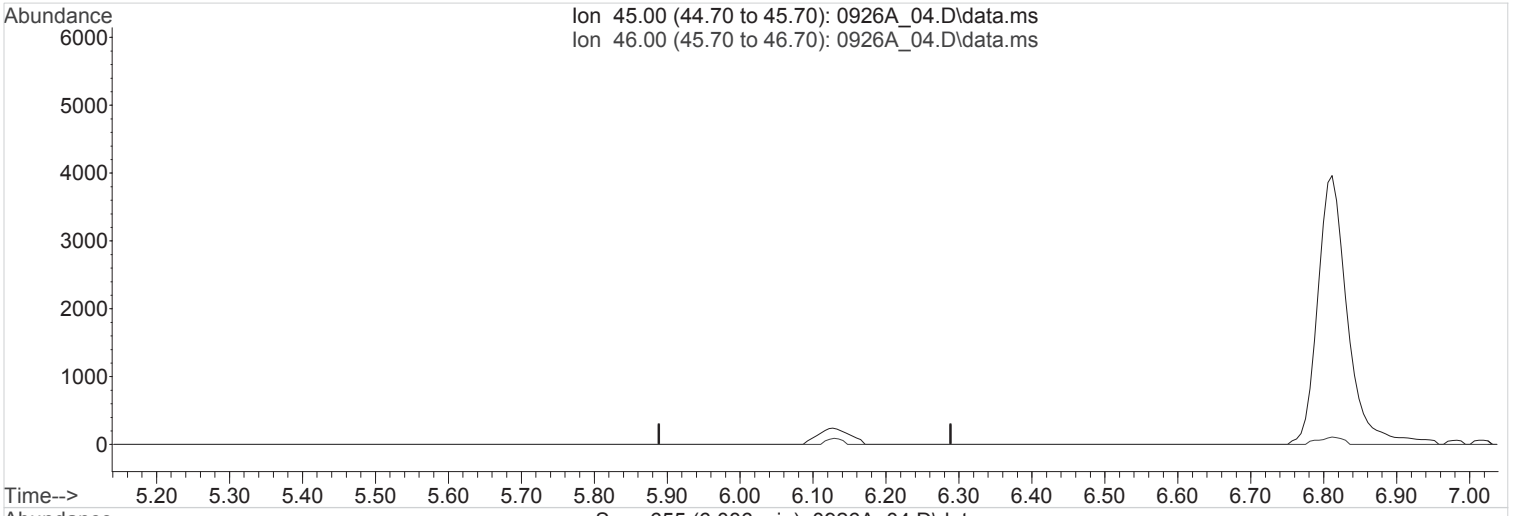
response 29904

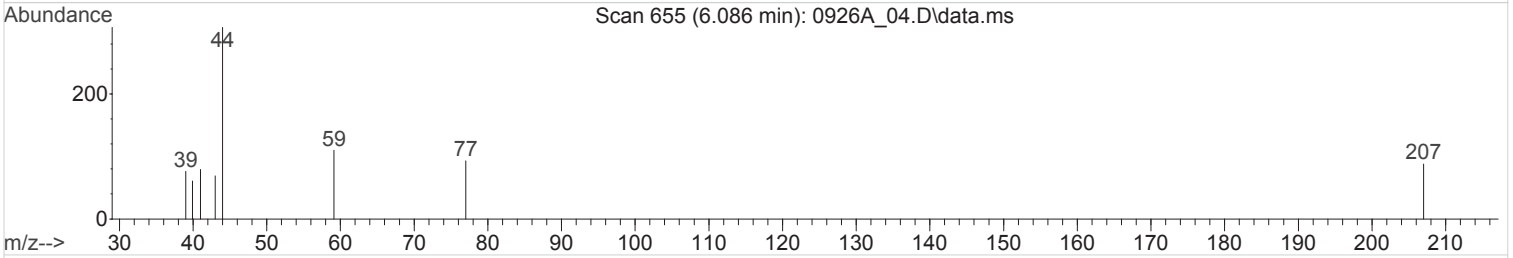
Ion	Exp%	Act%
64.00	100	100
66.00	31.30	0.00#
49.00	25.00	0.00#
0.00	0.00	0.00

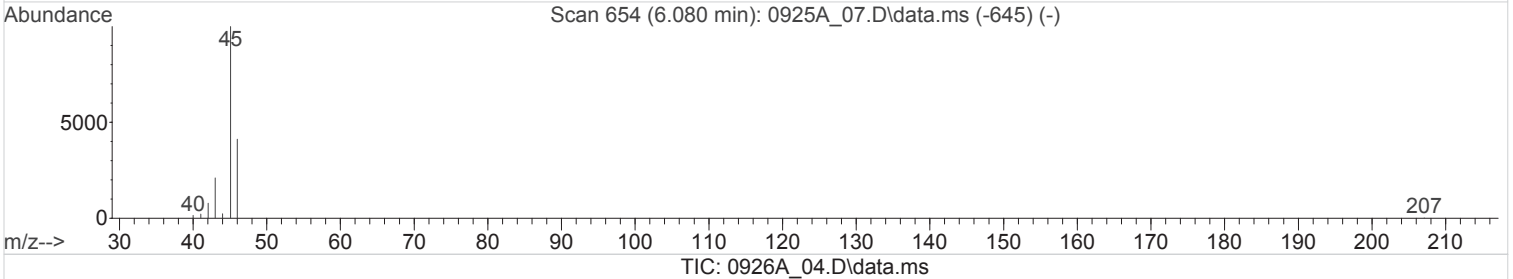
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

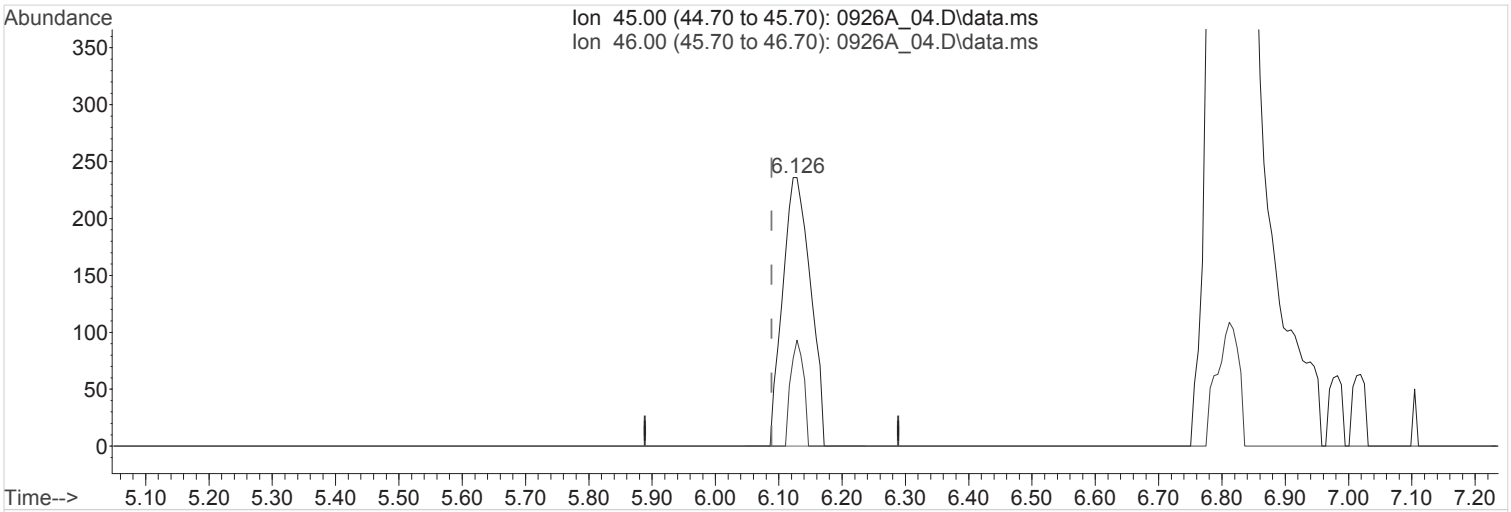
response 0

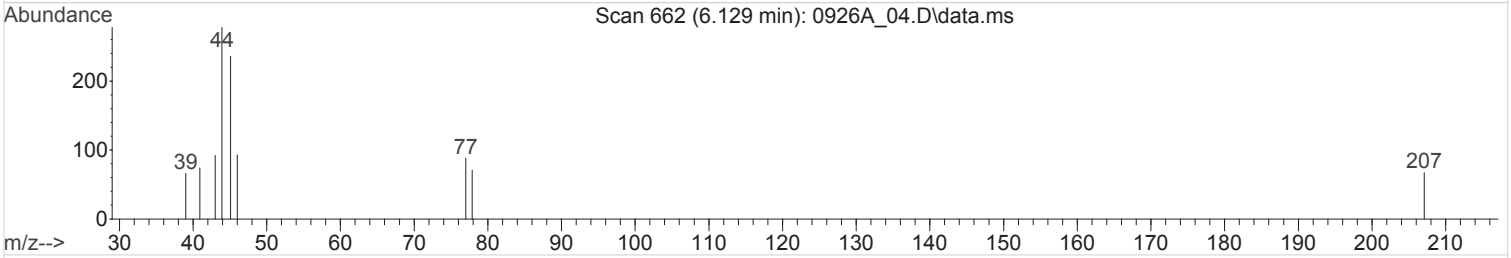
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

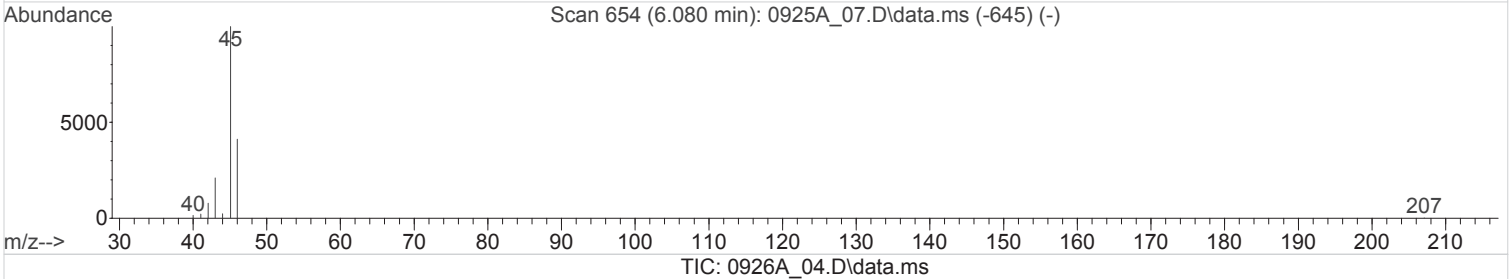
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(14) Ethanol (T,M)

6.129min (+0.040) 0.2480676 ppbv m

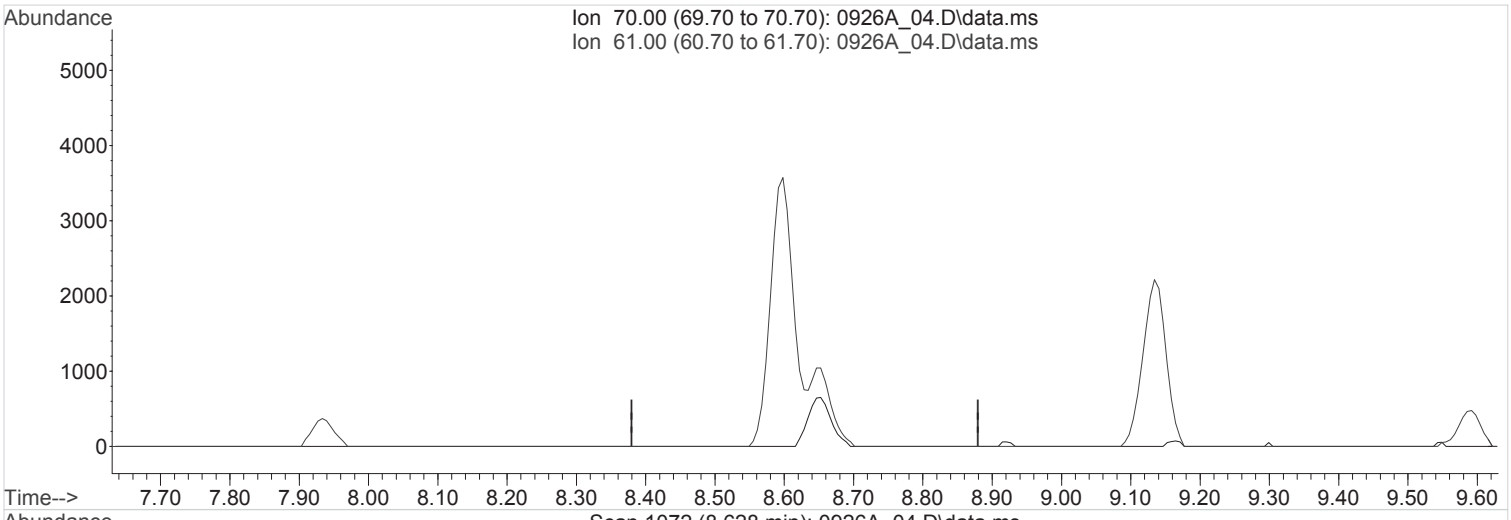
response 7206

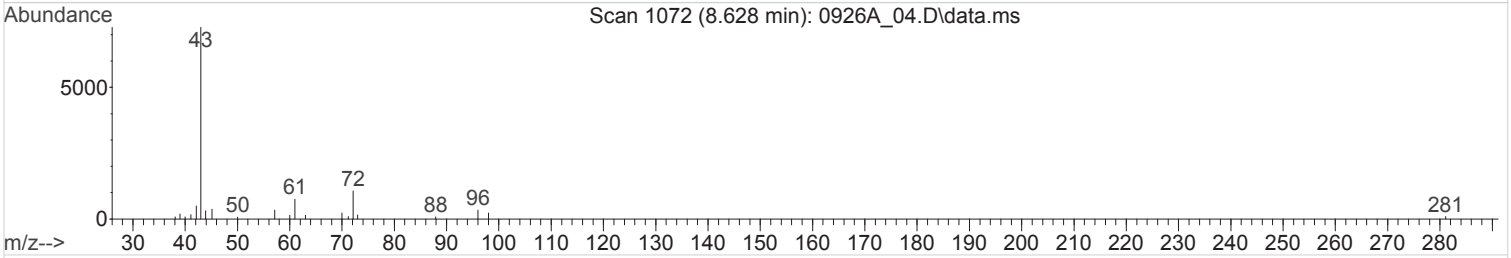
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

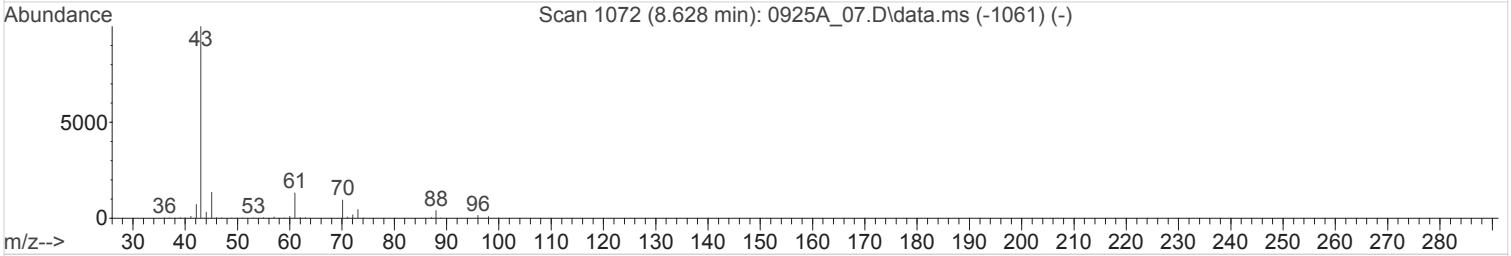
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

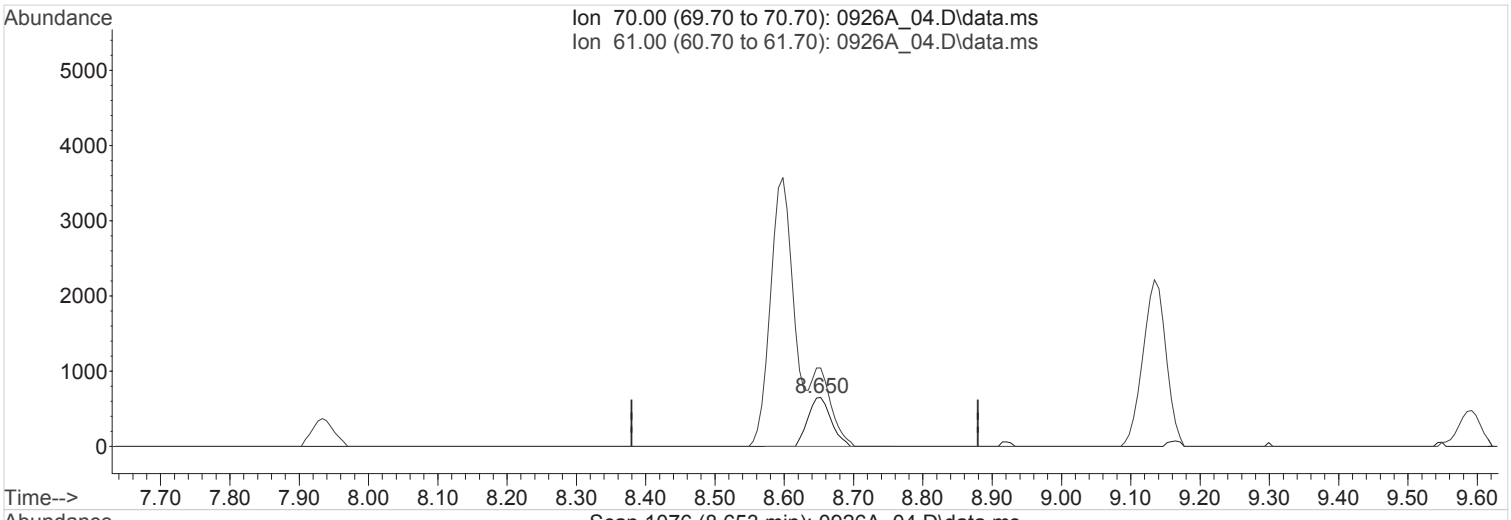
response 0

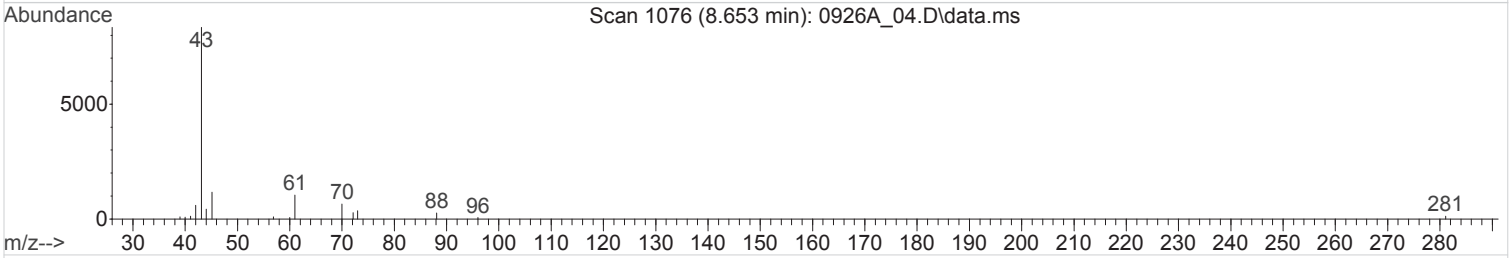
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

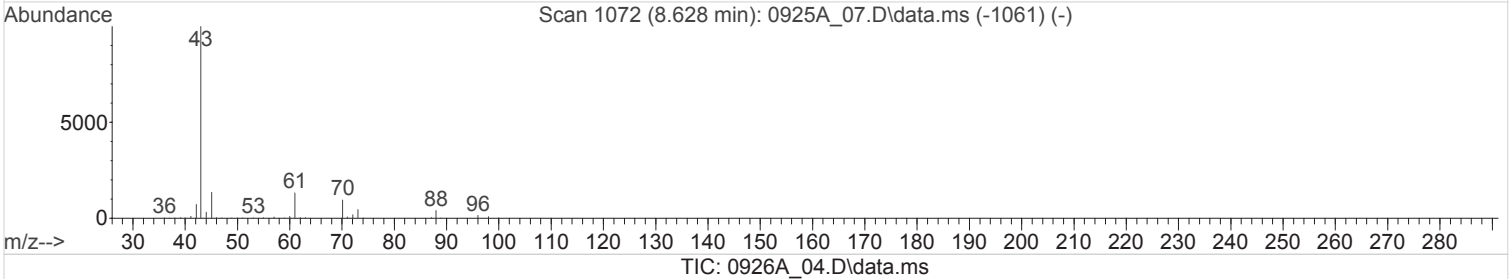
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(28) ETHYL ACETATE

8.653min (+0.023) 0.2734495 ppbv m

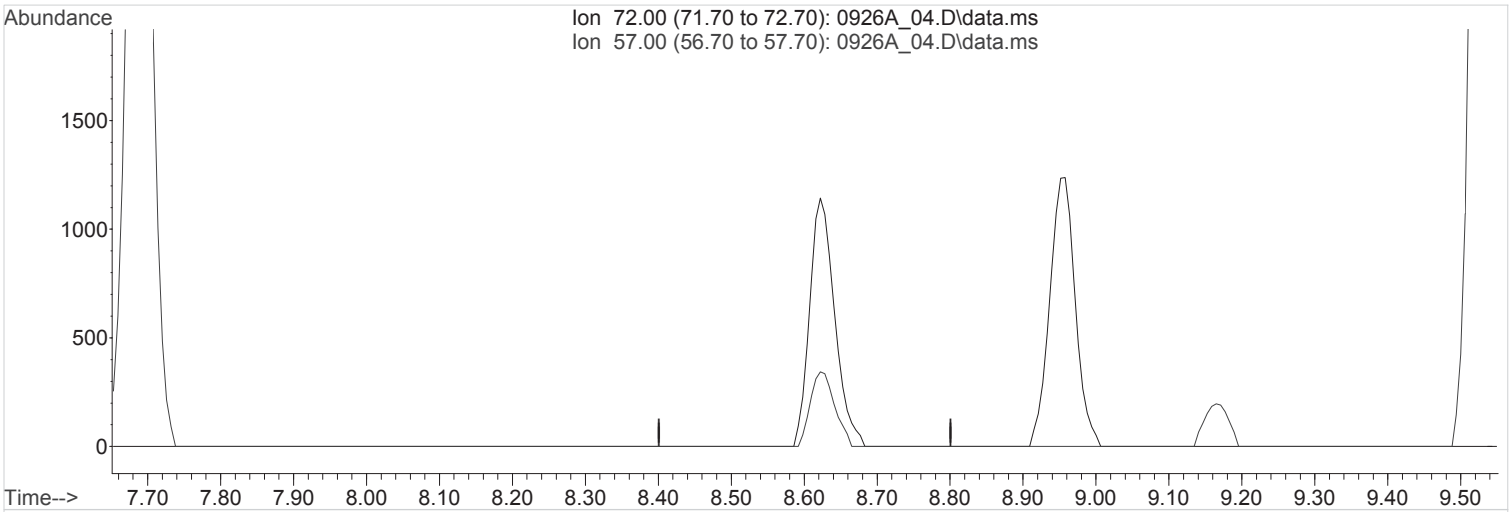
response 15107

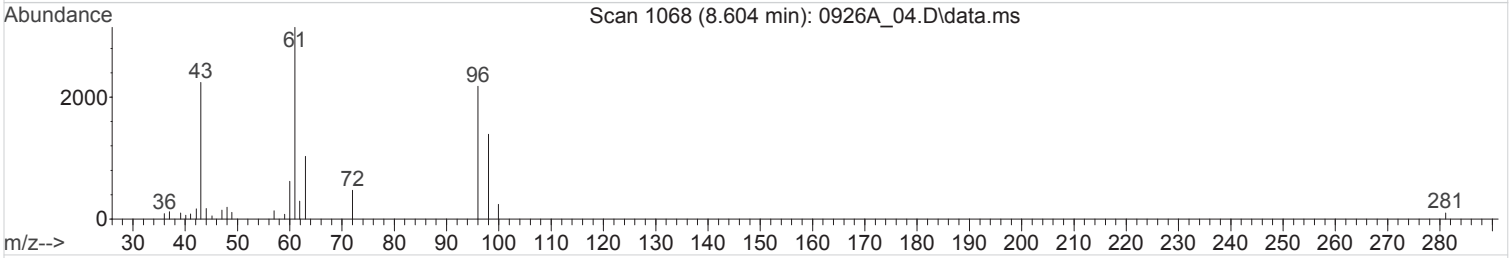
Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

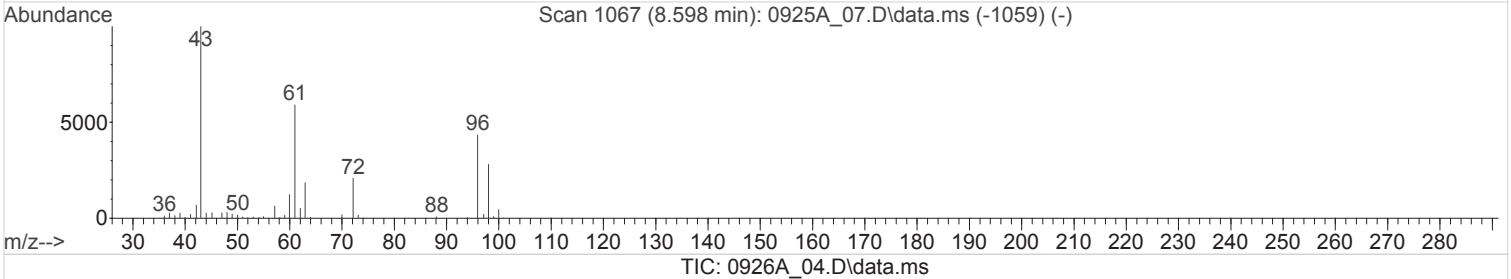
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(29) 2-Butanone (MEK) (T,M)

8.601min (-8.601) 0.0000000 ppbv

Qvalue = 0

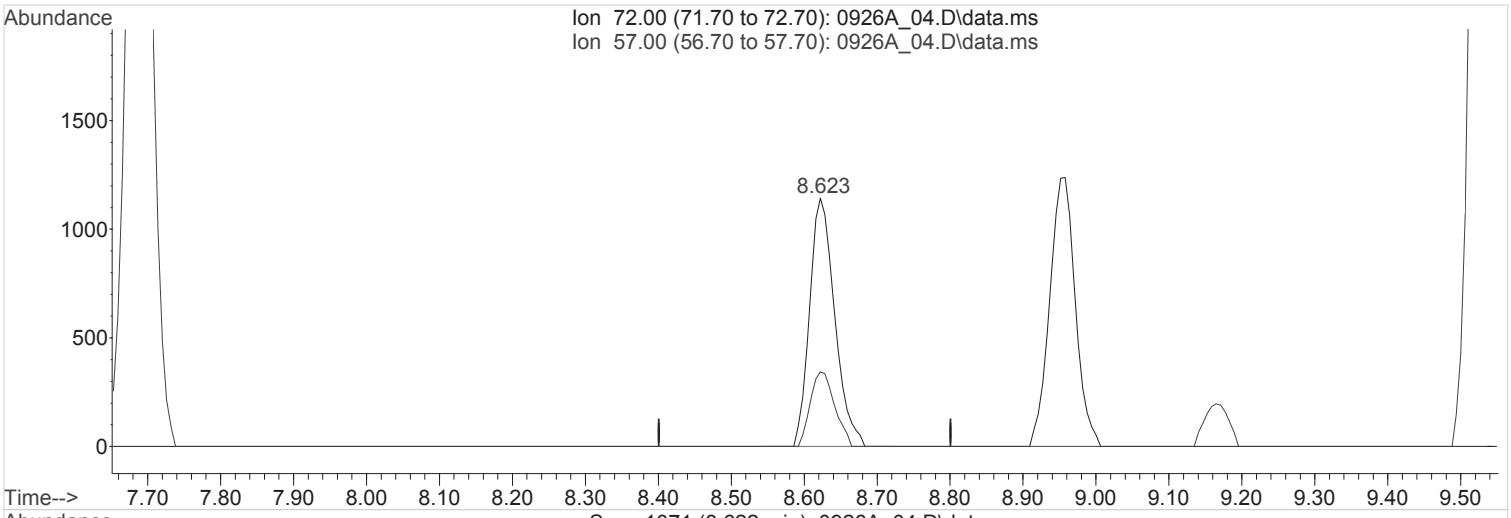
response 0

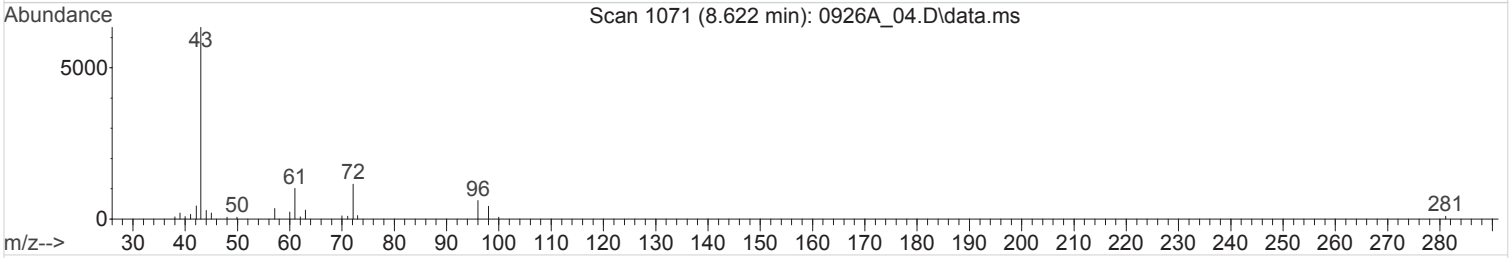
Ion	Exp%	Act%
72.00	100	0.00
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

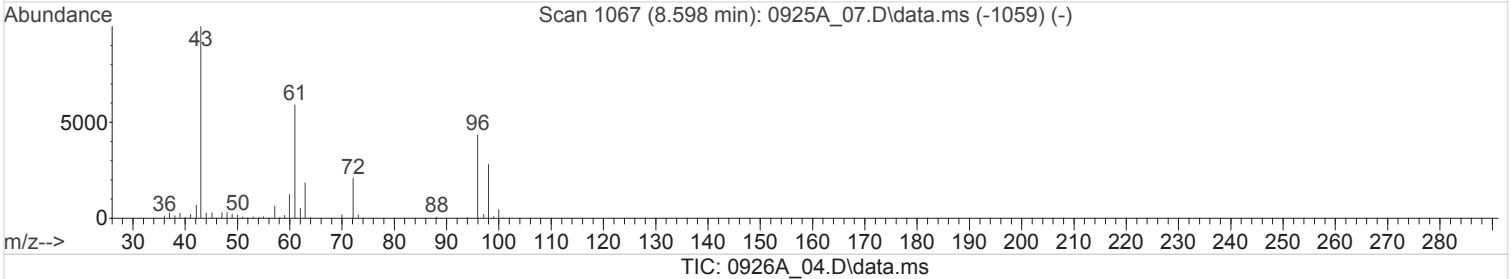
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(29) 2-Butanone (MEK) (T,M)

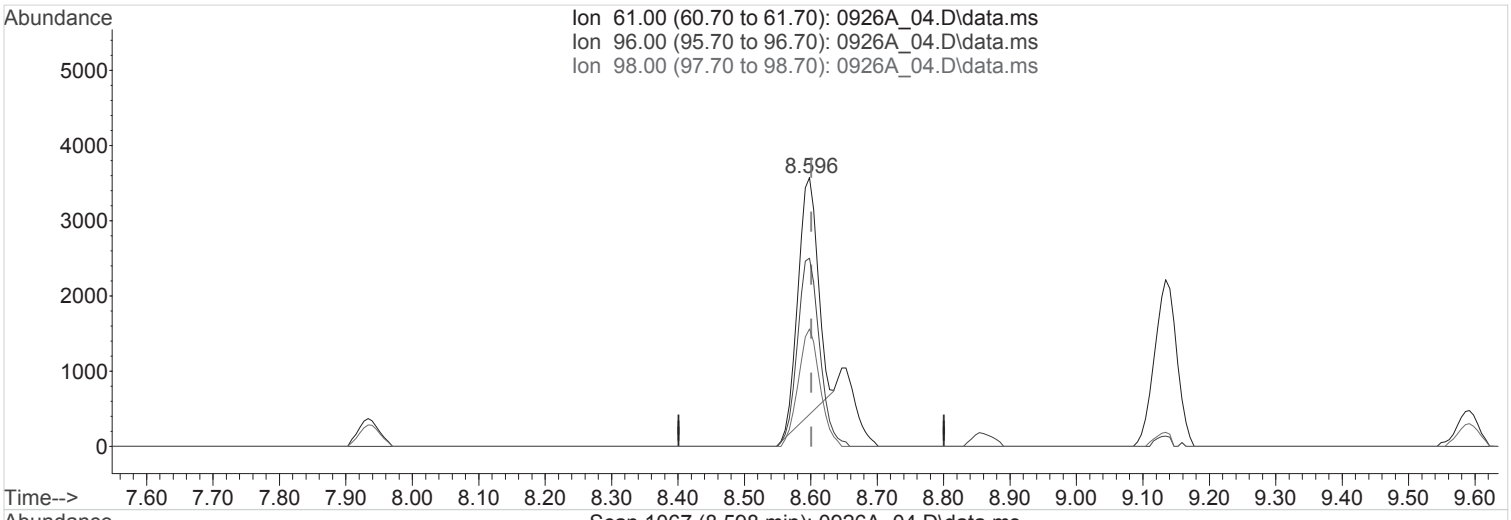
8.622min (+0.021) 0.2934729 ppbv m

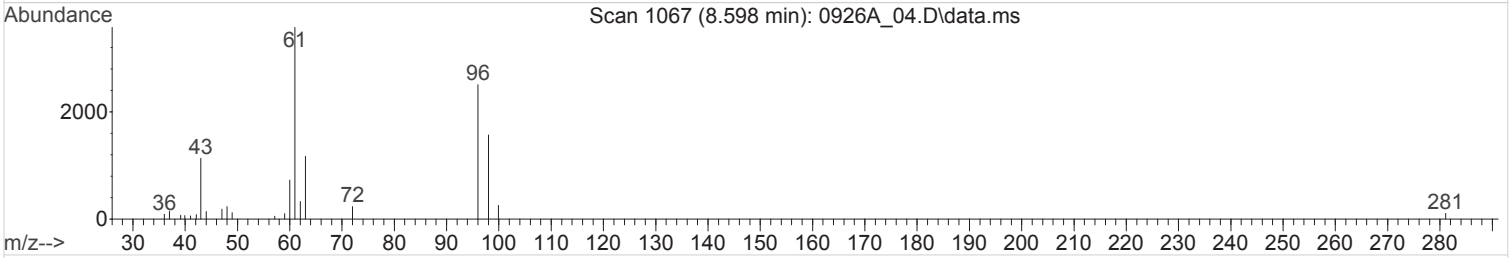
response 27366

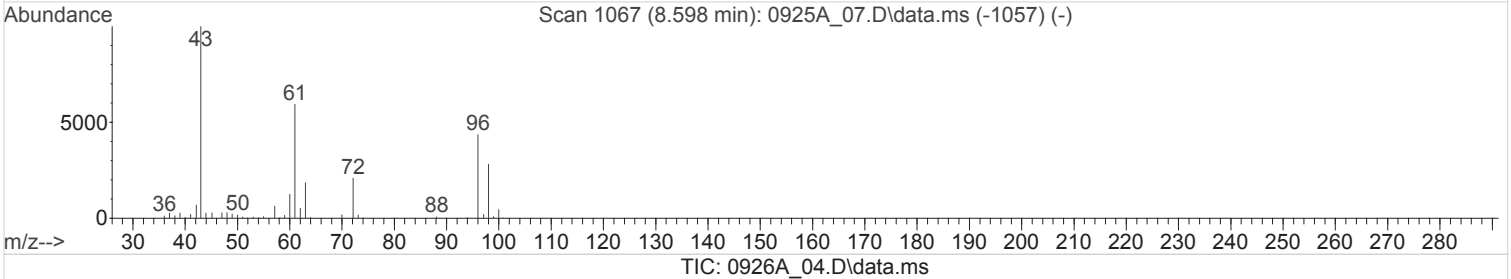
Ion	Exp%	Act%
72.00	100	100
57.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.599min (-0.002) 0.2020060 ppbv

Qvalue = 54

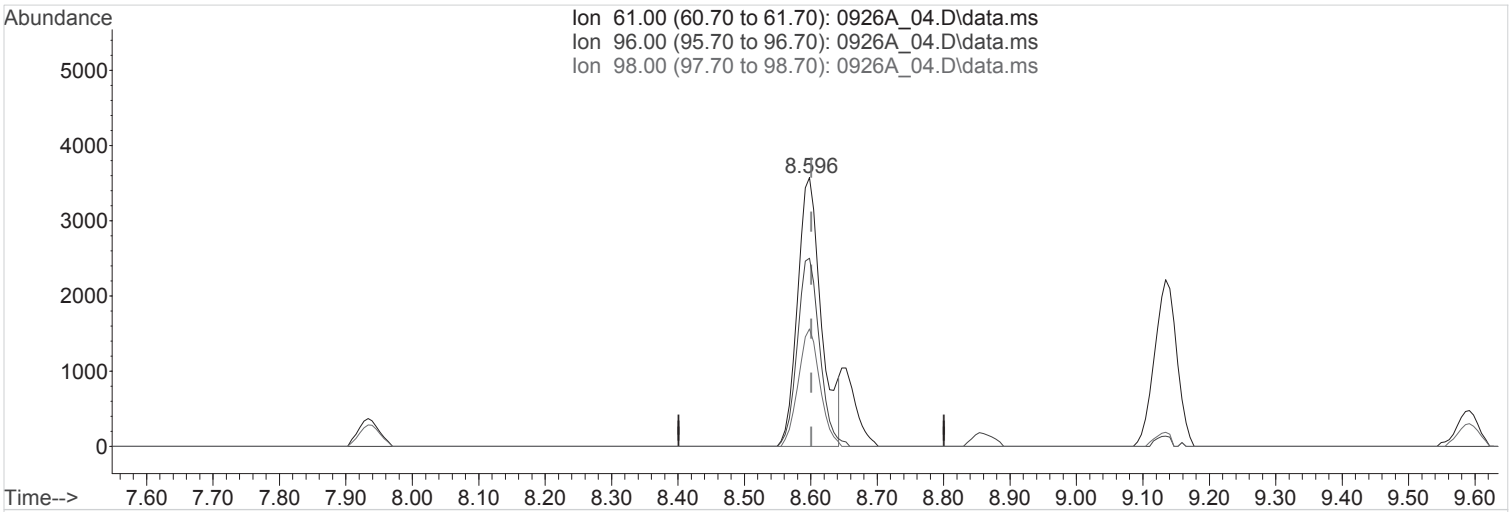
response 63691

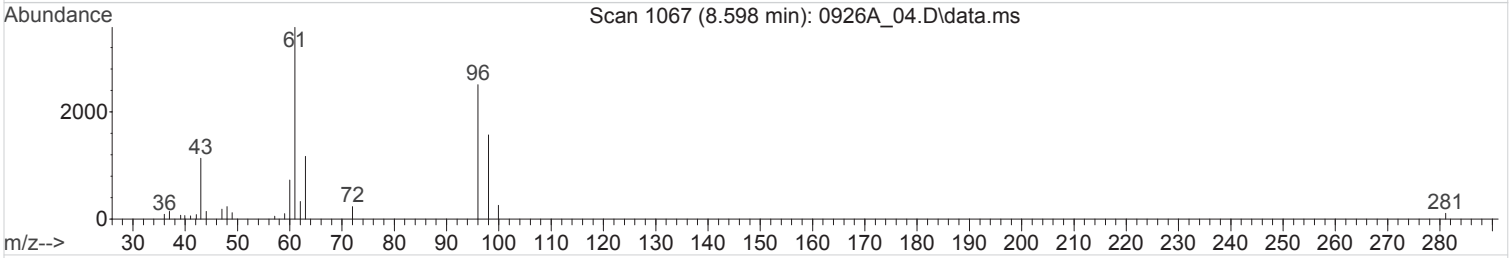
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	91.88#
98.00	34.80	55.75#
0.00	0.00	0.00

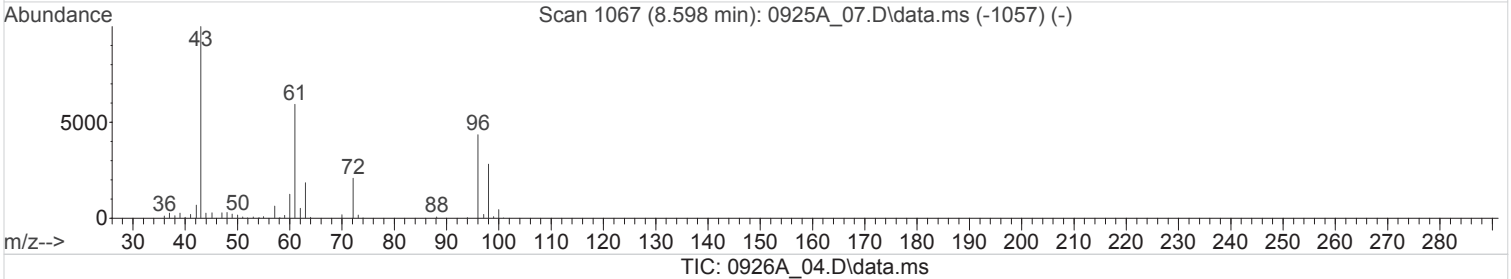
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(30) cis-1,2-Dichloroethene (T,M)

8.598min (-0.003) 0.2843486 ppbv m

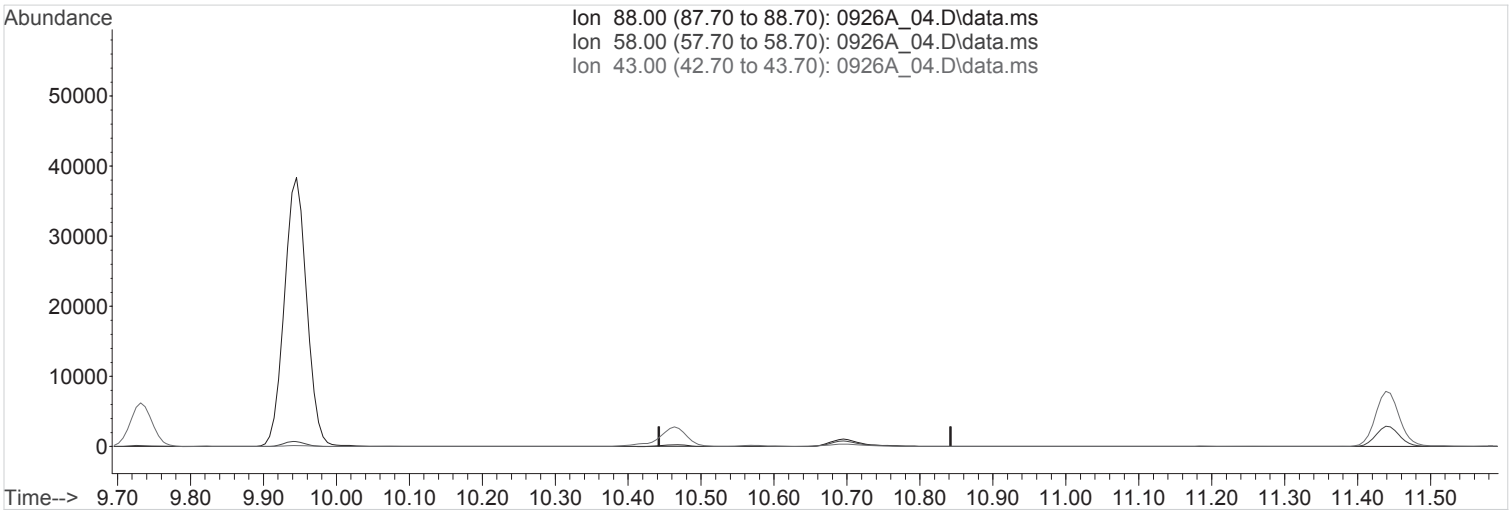
response 89654

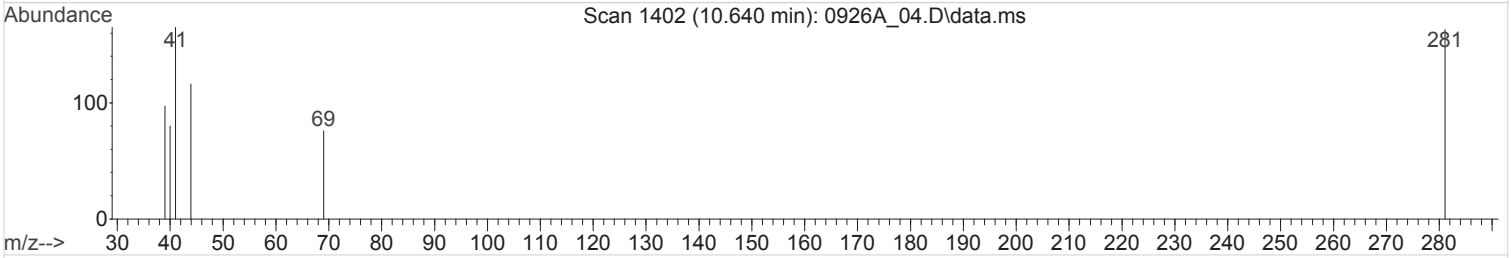
Ion	Exp%	Act%
61.00	100	100
96.00	54.40	65.27
98.00	34.80	39.61
0.00	0.00	0.00

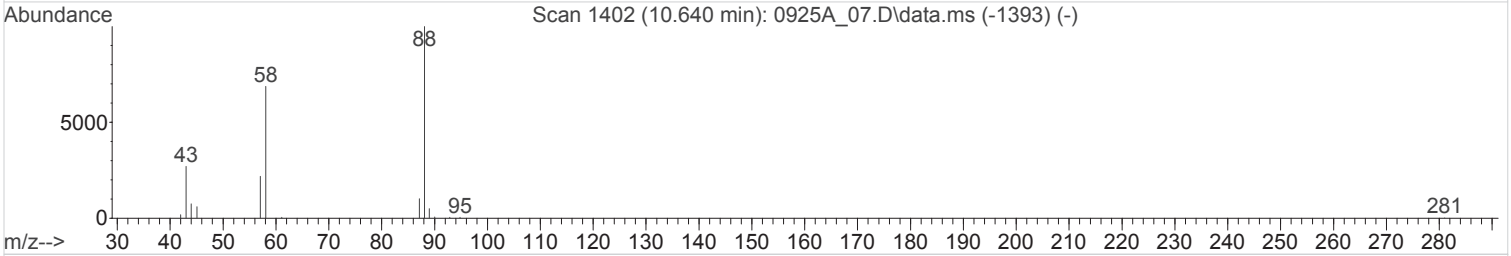
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(46) 1,4-Dioxane (T,M)

10.642min (-10.642) 0.0000000 ppbv

Qvalue = 0

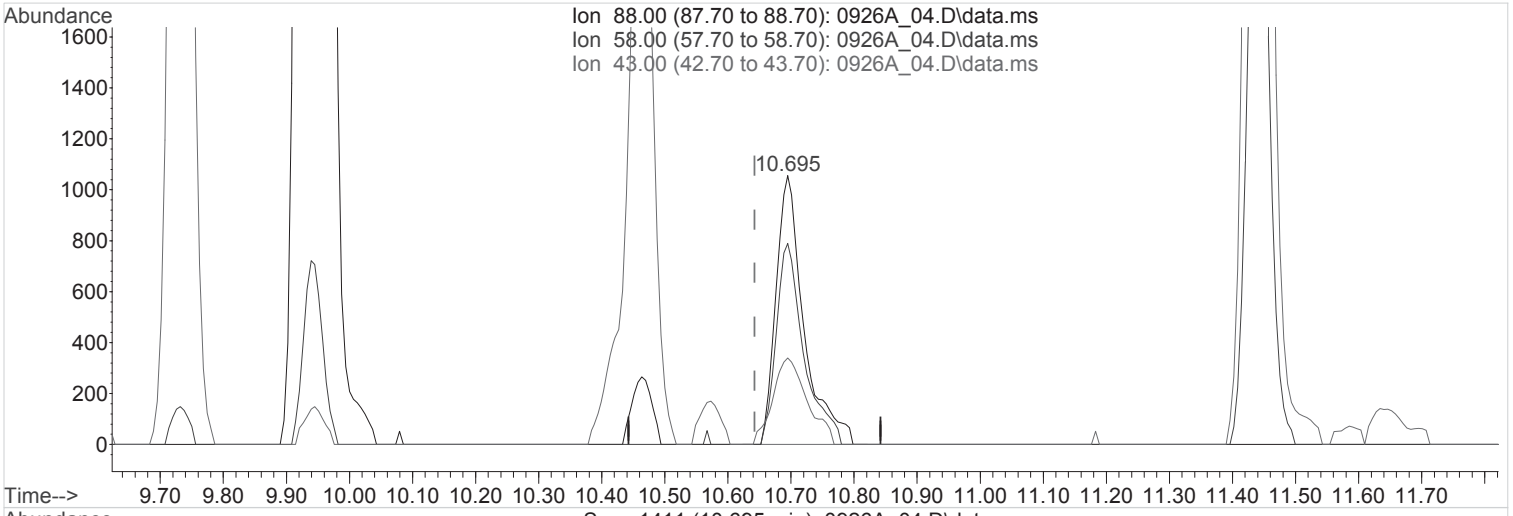
response 0

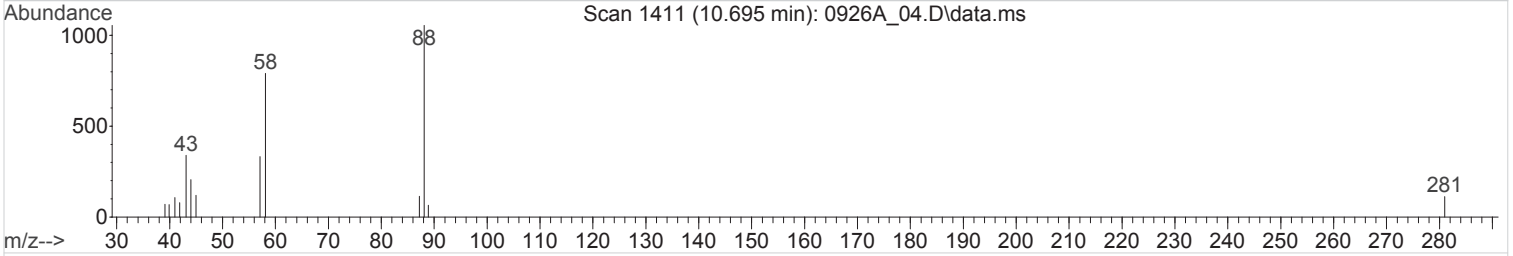
Ion	Exp%	Act%
88.00	100	0.00
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

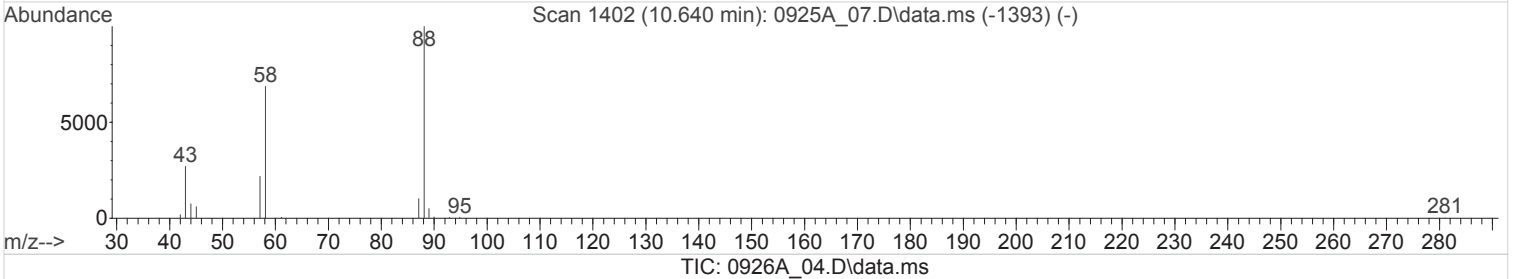
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(46) 1,4-Dioxane (T,M)

10.695min (+0.053) 0.3047368 ppbv m

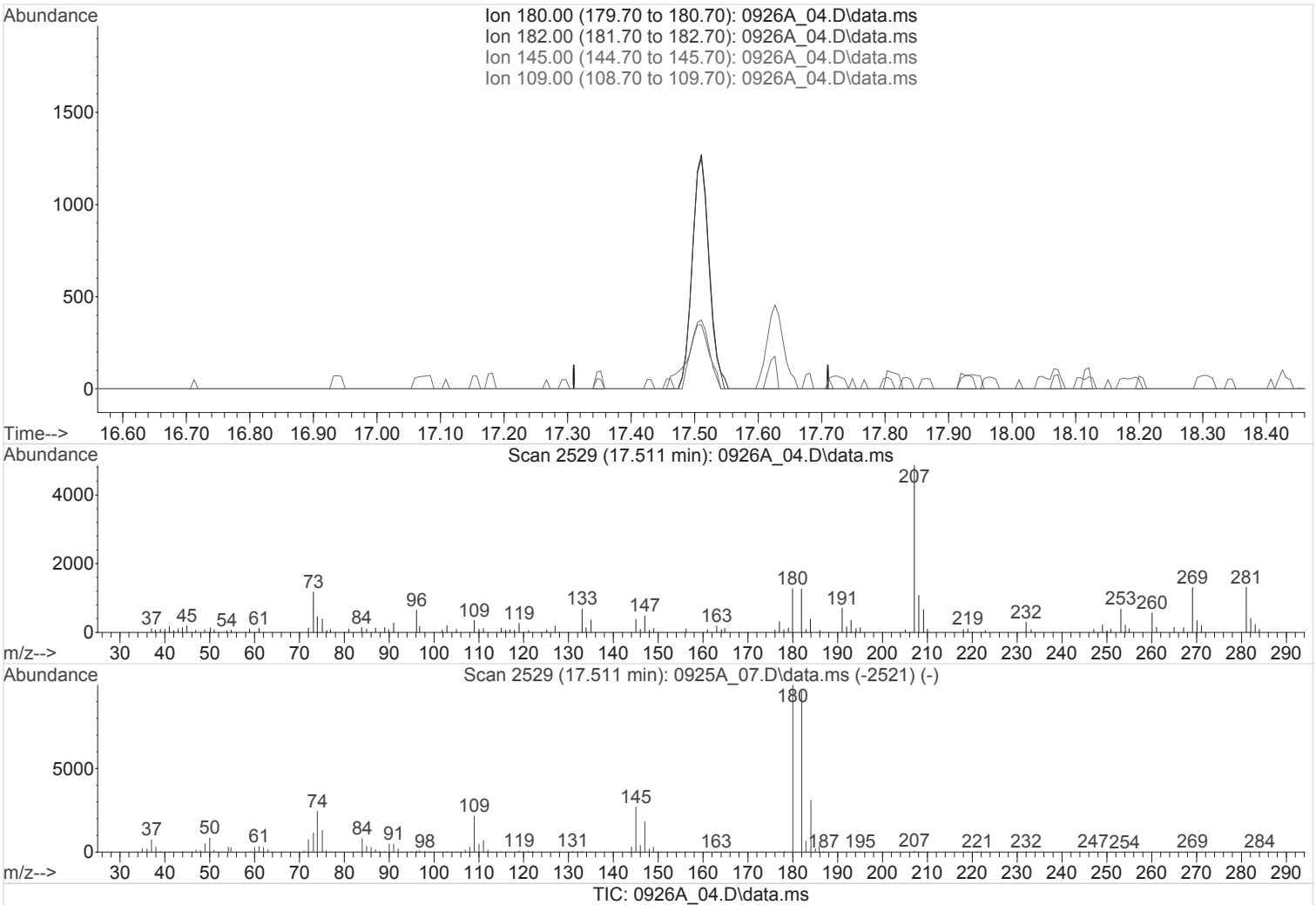
response 32552

Ion	Exp%	Act%
88.00	100	100
58.00	73.40	0.00#
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration



TIC: 0926A_04.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.510min (-17.510) 0.0000000 ppbv

Qvalue = 0

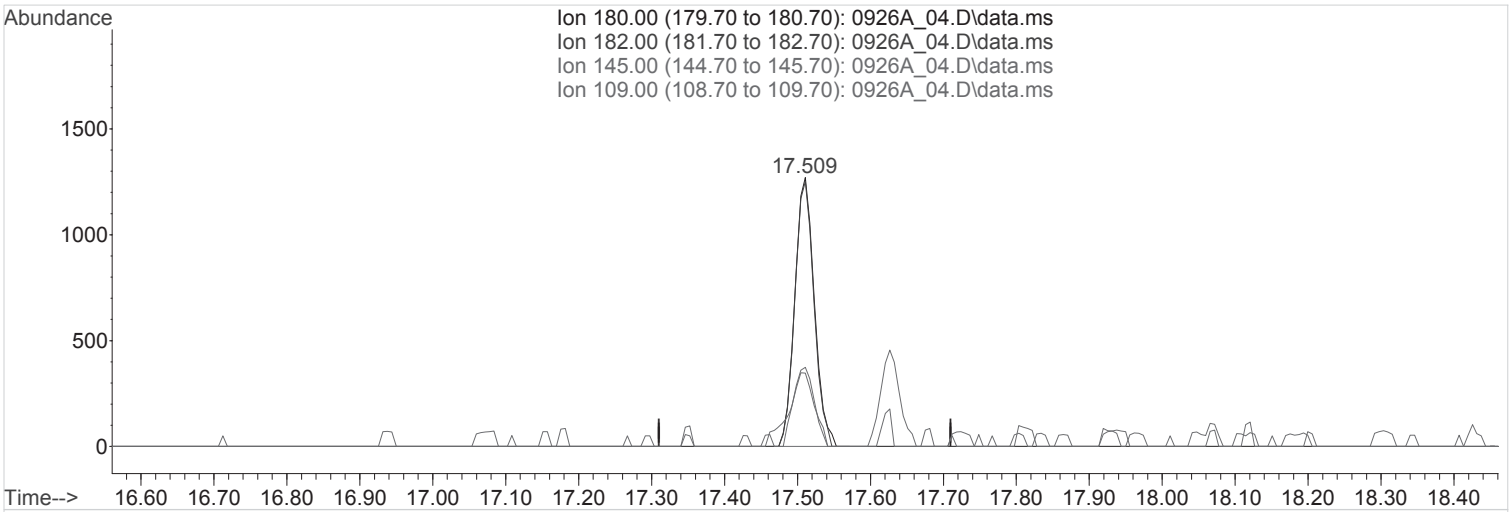
response 0

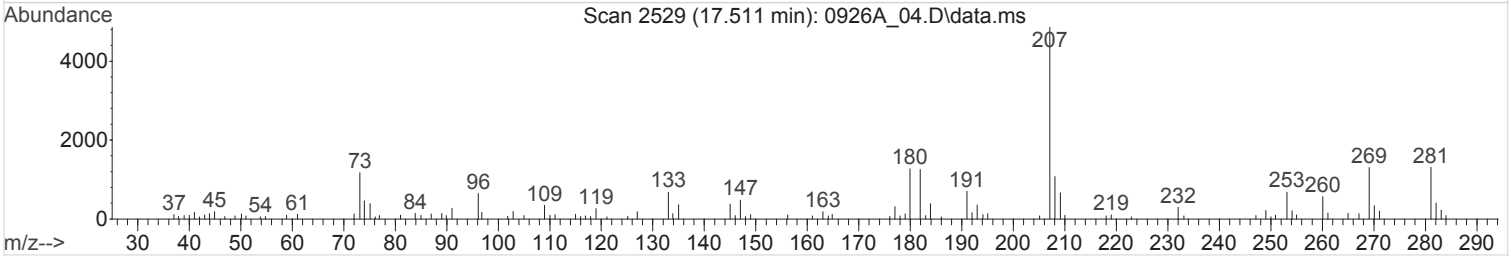
Ion	Exp%	Act%
180.00	100	0.00
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

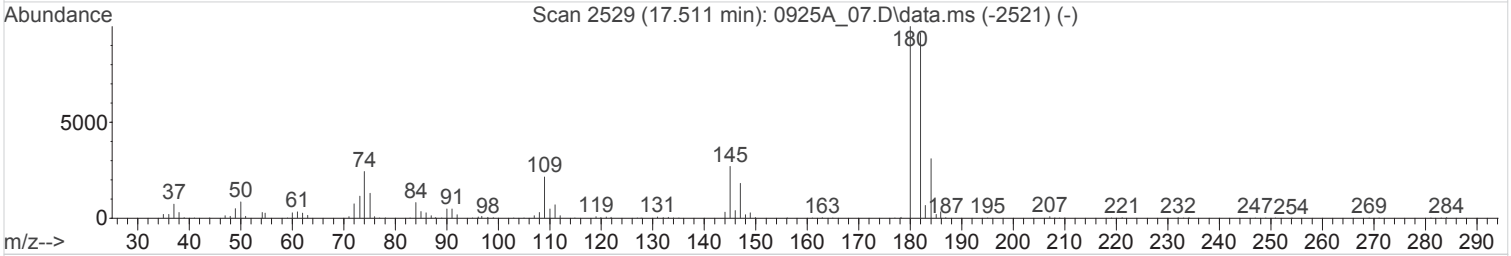
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_04.D
Acq On : 26 Sep 2016 1:58 pm
Operator : 564
Sample : STD AMS 0.31 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:48:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:48:17 2016
Response via : Initial Calibration







TIC: 0926A_04.D\data.ms

(81) 1,2,4-Trichlorobenzene (T,M)

17.511min (+0.000) 0.1932046 ppbv m

response 23573

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	0.00#
145.00	28.70	0.00#
109.00	23.30	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.867	130	1262552	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.949	114	5118927	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.164	117	3749072	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.332	95	2220925	3.9989468	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.97%				
Target Compounds							Qvalue
2) Propene	4.091	41	127628	0.6800781	ppbv		99
3) 1,1-DIFLUOROETHANE	4.104	65	83854	0.7036931	ppbv		95
4) Dichlorodifluoromethane	4.155	85	277412	0.7018605	ppbv		98
5) CHLORODIFLUOROMETHANE	4.190	67	29164m	0.6650016	ppbv		
6) 1,2-Dichlorotetrafluor...	4.394	85	308336	0.6861323	ppbv		100
7) Chloromethane	4.494	50	129861	0.6789948	ppbv		98
8) Vinyl Chloride	4.693	62	137349	0.6803887	ppbv		99
9) 1,3-Butadiene	4.757	39	118964	0.7082815	ppbv		96
10) Bromomethane	5.250	94	107100	0.6738405	ppbv		100
11) Chloroethane	5.411	64	72027	0.6910961	ppbv		97
12) Vinyl Bromide	5.684	106	106029	0.6823453	ppbv		97
13) Trichlorofluoromethane	5.765	101	244271	0.7019293	ppbv		100
14) Ethanol	6.147	45	15915m	0.6033090	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.461	101	226259	0.6923760	ppbv		97
16) 1,1-Dichloroethene	6.486	61	204536	0.7135300	ppbv		98
17) Acetone	6.620	43	390859	0.6732902	ppbv		98
18) 2-Propanol	6.827	45	238648	0.6589275	ppbv	#	74
19) Carbon Disulfide	6.780	76	349535	0.6994213	ppbv		99
20) Allyl Chloride	6.955	41	189993	0.7327077	ppbv	#	45
21) Methylene Chloride	7.122	49	174728	0.6682928	ppbv		99
22) TERT-BUTYL ALCOHOL	7.332	59	303542	0.6743555	ppbv		96
23) Methyl Tert-Butyl Ether	7.467	73	347451	0.6356906	ppbv		98
24) Trans-1,2-Dichloroethene	7.428	96	116298	0.6514325	ppbv		97
25) n-Hexane	7.695	57	213029	0.6971368	ppbv		99
26) 1,1-Dichloroethane	7.941	63	232601	0.6925066	ppbv		100
27) Vinyl Acetate	7.981	43	206469	0.6243258	ppbv	#	77
28) ETHYL ACETATE	8.653	70	34272m	0.6636910	ppbv		
29) 2-Butanone (MEK)	8.626	72	56493	0.6339597	ppbv	#	43
30) cis-1,2-Dichloroethene	8.601	61	176921	0.5931151	ppbv	#	78
31) Tetrahydrofuran	8.957	42	165192	0.6523902	ppbv		98
32) Chloroform	8.926	83	234462	0.6848894	ppbv		98
33) Cyclohexane	9.172	84	174189	0.6792619	ppbv		97
34) 1,1,1-Trichloroethane	9.140	97	218552	0.6867374	ppbv		100
35) Carbon Tetrachloride	9.305	117	207587	0.6957498	ppbv		99
36) 2,2,4-Trimethylpentane	9.547	57	707879	0.6953523	ppbv		99
38) Benzene	9.538	78	409163	0.6826121	ppbv		96
39) 1,2-Dichloroethane	9.594	62	165725	0.6954839	ppbv		99
40) Heptane	9.737	43	283286	0.7075359	ppbv		100
41) Trichloroethene	10.241	95	160371	0.6878900	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.468	73	129487	0.6337417	ppbv		99
43) METHYL CYCLOHEXANE	10.425	83	228971	0.6991194	ppbv		98
44) 1,2-Dichloropropane	10.511	63	155120	0.7048837	ppbv		95
45) Methyl Methacrylate	10.575	69	138930	0.5882973	ppbv		100
46) 1,4-Dioxane	10.695	88	69953m	0.6799724	ppbv		
47) Bromodichloromethane	10.787	83	245606	0.6946127	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

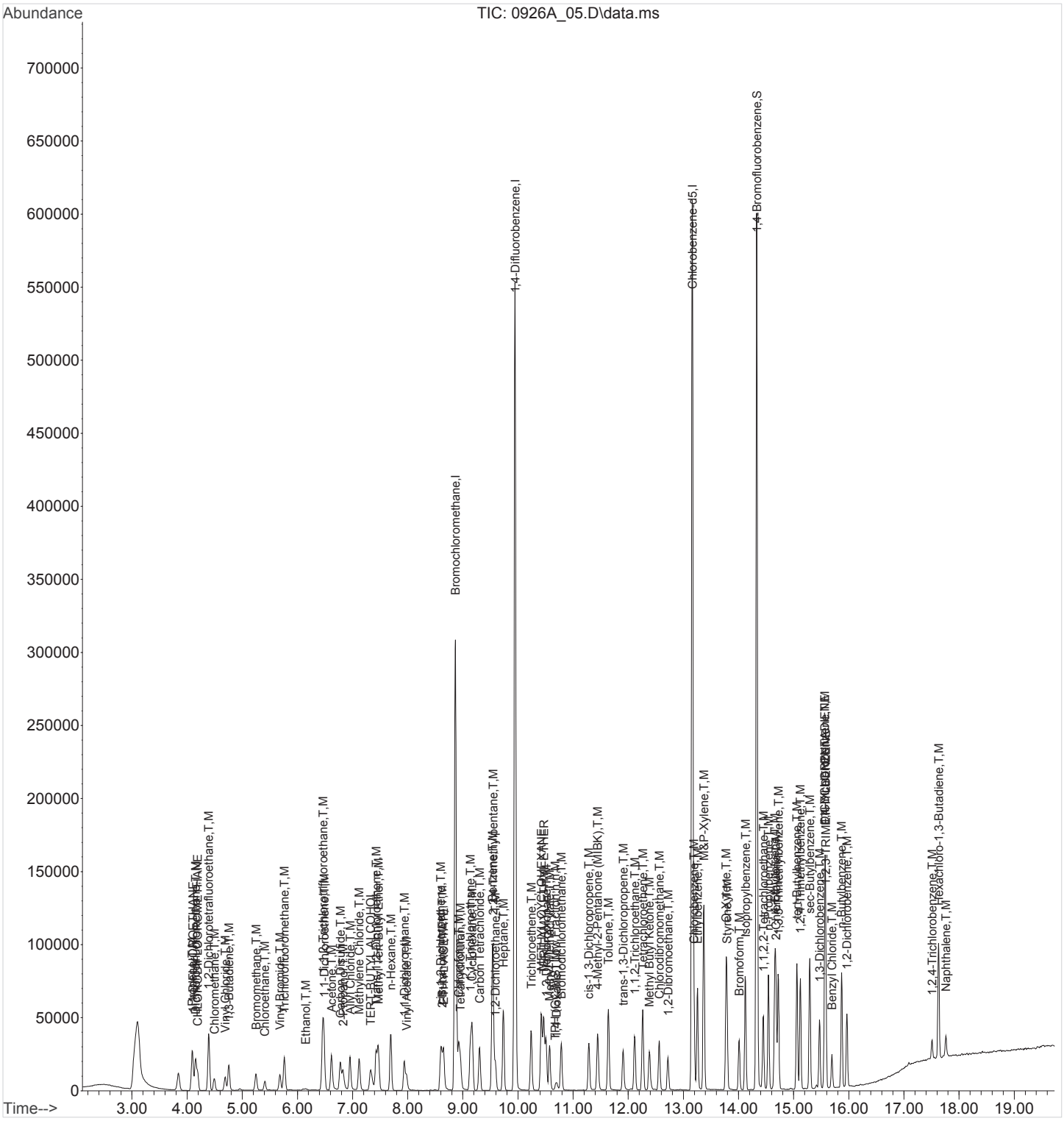
Quant Time: Sep 27 07:52:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,3-Dichloropropene	11.287	75	220764	0.6698190	ppbv		98
49) 4-Methyl-2-Pentanone (...	11.447	43	356414	0.6407755	ppbv		99
50) Toluene	11.643	91	486935	0.6845804	ppbv		99
51) trans-1,3-Dichloropropene	11.910	75	171996	0.6431958	ppbv		99
52) 1,1,2-Trichloroethane	12.120	97	142026	0.6546633	ppbv		98
53) Tetrachloroethene	12.266	166	207470	0.6873036	ppbv		100
54) Methyl Butyl Ketone	12.386	43	251928	0.6300536	ppbv	#	95
55) Chlorodibromomethane	12.564	129	212544	0.6620626	ppbv		99
56) 1,2-Dibromoethane	12.722	107	184517	0.6436322	ppbv		98
57) Chlorobenzene	13.193	112	310115	0.6740180	ppbv		89
59) Ethylbenzene	13.258	91	540437	0.6474490	ppbv		100
60) M&P-Xylene	13.372	91	801924	1.2131871	ppbv		99
61) O-Xylene	13.776	91	413394	0.6342679	ppbv		99
62) Styrene	13.793	104	280328	0.6406766	ppbv		98
63) Bromoform	14.012	173	180015	0.6355506	ppbv		100
64) Isopropylbenzene	14.126	105	590225	0.6570324	ppbv	#	93
65) 1,1,2,2-Tetrachloroethane	14.450	83	298734	0.6482823	ppbv		99
66) n-Propylbenzene	14.545	91	691957	0.6708736	ppbv		100
67) 4-Ethyltoluene	14.660	105	555841	0.6579125	ppbv		100
68) 2-Chlorotoluene	14.680	91	515653	0.6540680	ppbv		99
70) 1,3,5-Trimethylbenzene	14.723	105	479016	0.6371181	ppbv		99
71) tert-Butylbenzene	15.061	119	481062	0.6644838	ppbv		99
72) 1,2,4-Trimethylbenzene	15.124	105	465357	0.6278310	ppbv		99
73) sec-Butylbenzene	15.294	105	736655	0.6306588	ppbv		99
74) 1,3-Dichlorobenzene	15.472	146	217916	0.5918772	ppbv		98
75) 1,4-Dichlorobenzene	15.566	146	202295m	0.5924315	ppbv		
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	478758	0.6312761	ppbv		99
77) DICYCLOPENTADIENE	15.569	66	676072	0.6535835	ppbv		99
78) Benzyl Chloride	15.696	91	190382	0.5106928	ppbv		99
79) n-Butylbenzene	15.873	91	503800	0.6102442	ppbv		99
80) 1,2-Dichlorobenzene	15.969	146	236310	0.5891039	ppbv		99
81) 1,2,4-Trichlorobenzene	17.512	180	48123	0.4610597	ppbv	#	81
82) Hexachloro-1,3-Butadiene	17.631	225	176267	0.5962772	ppbv		100
83) Naphthalene	17.763	128	124664	0.4370842	ppbv	#	85
84) TPH (GC/MS) Low Fraction	10.675	TIC	45453810m	29.7485865	ppbv		

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
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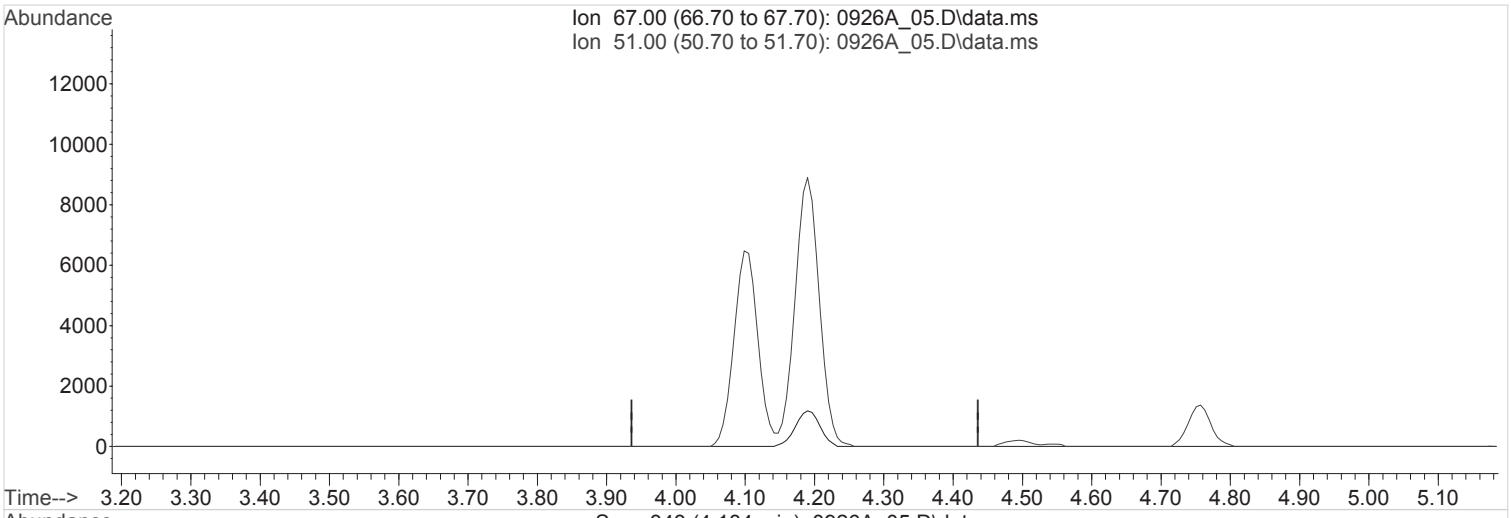
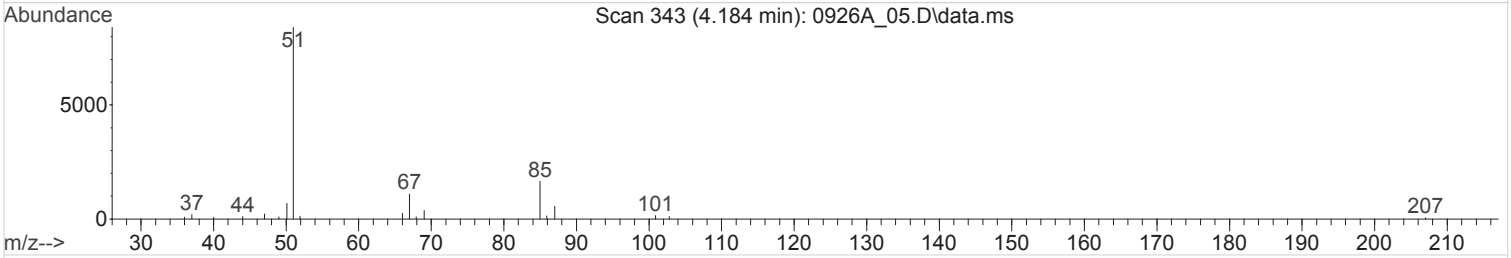
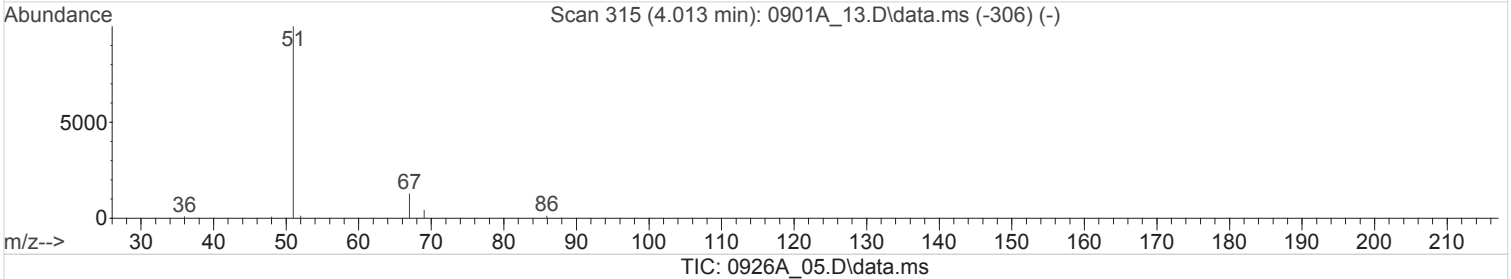
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.186min (-4.186) 0.0000000 ppbv

Qvalue = 0

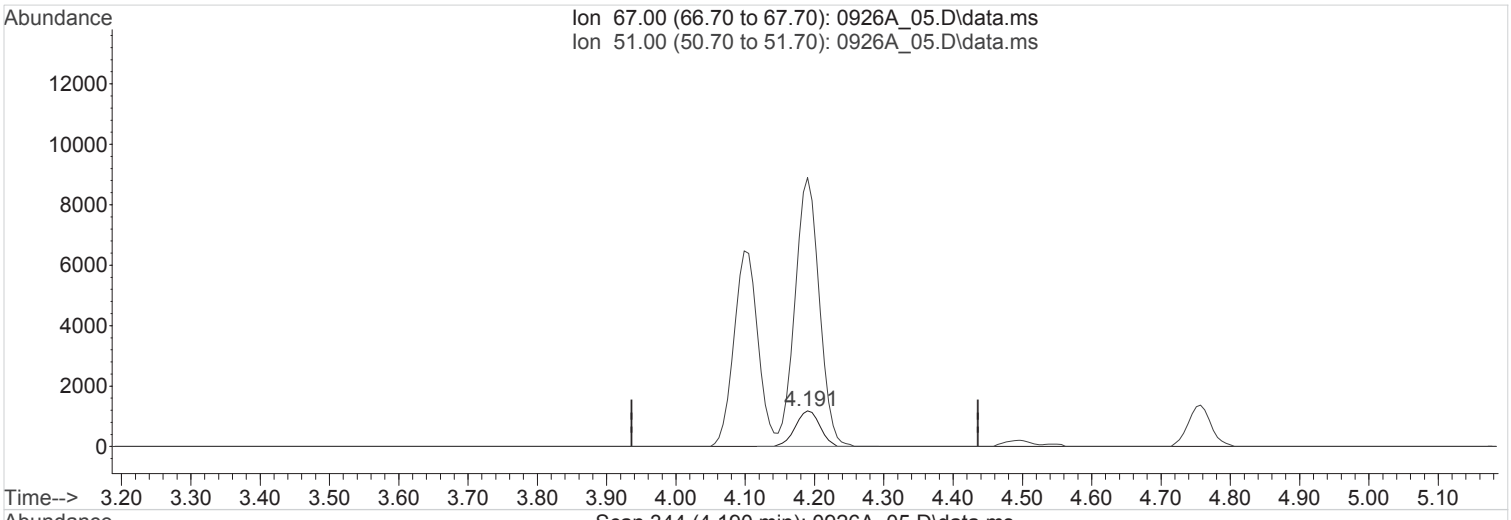
response 0

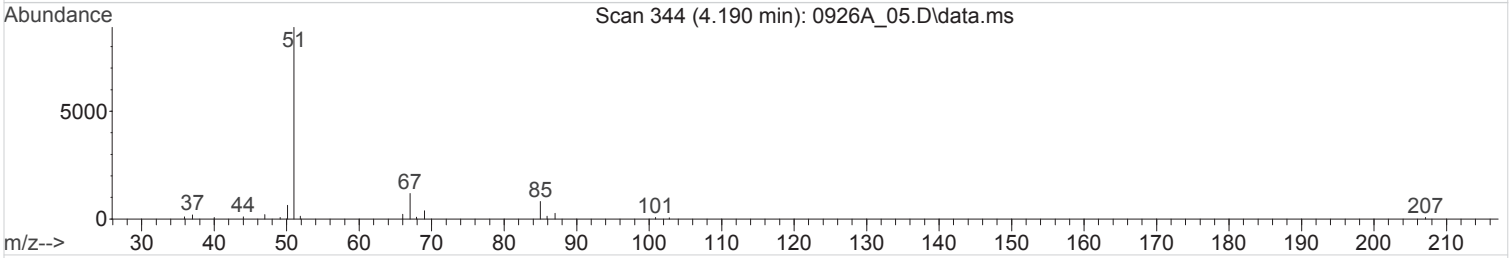
Ion	Exp%	Act%
67.00	100	0.00
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

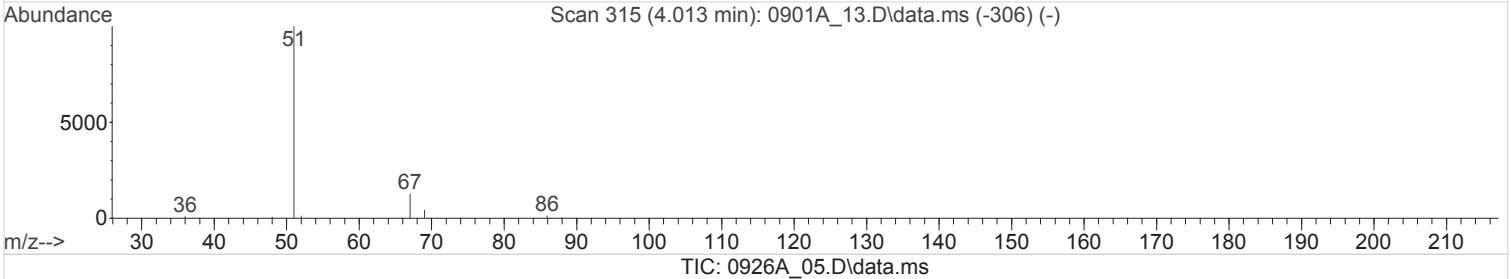
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(5) CHLORODIFLUOROMETHANE

4.190min (+0.004) 0.6650016 ppbv m

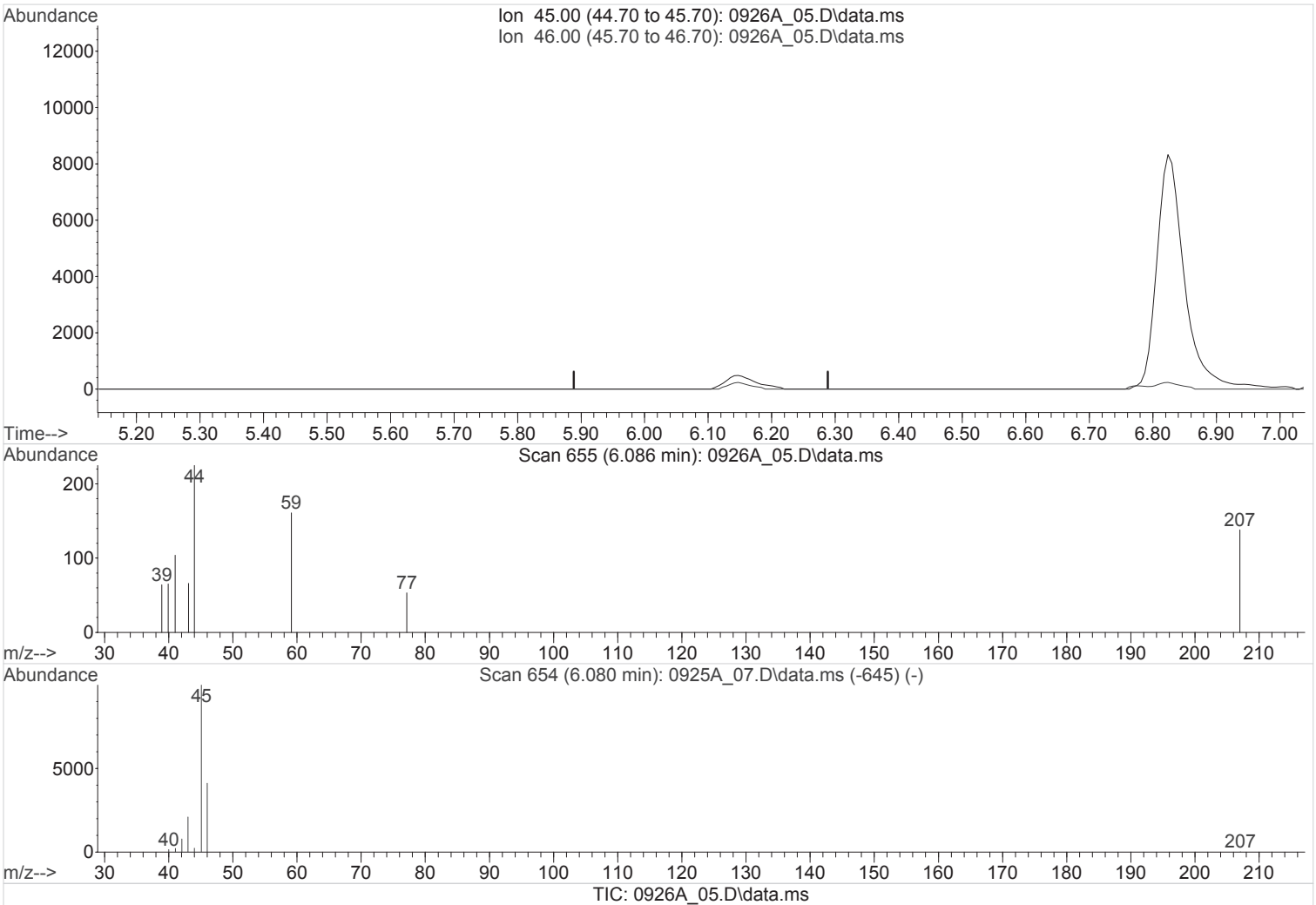
response 29164

Ion	Exp%	Act%
67.00	100	100
51.00	732.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

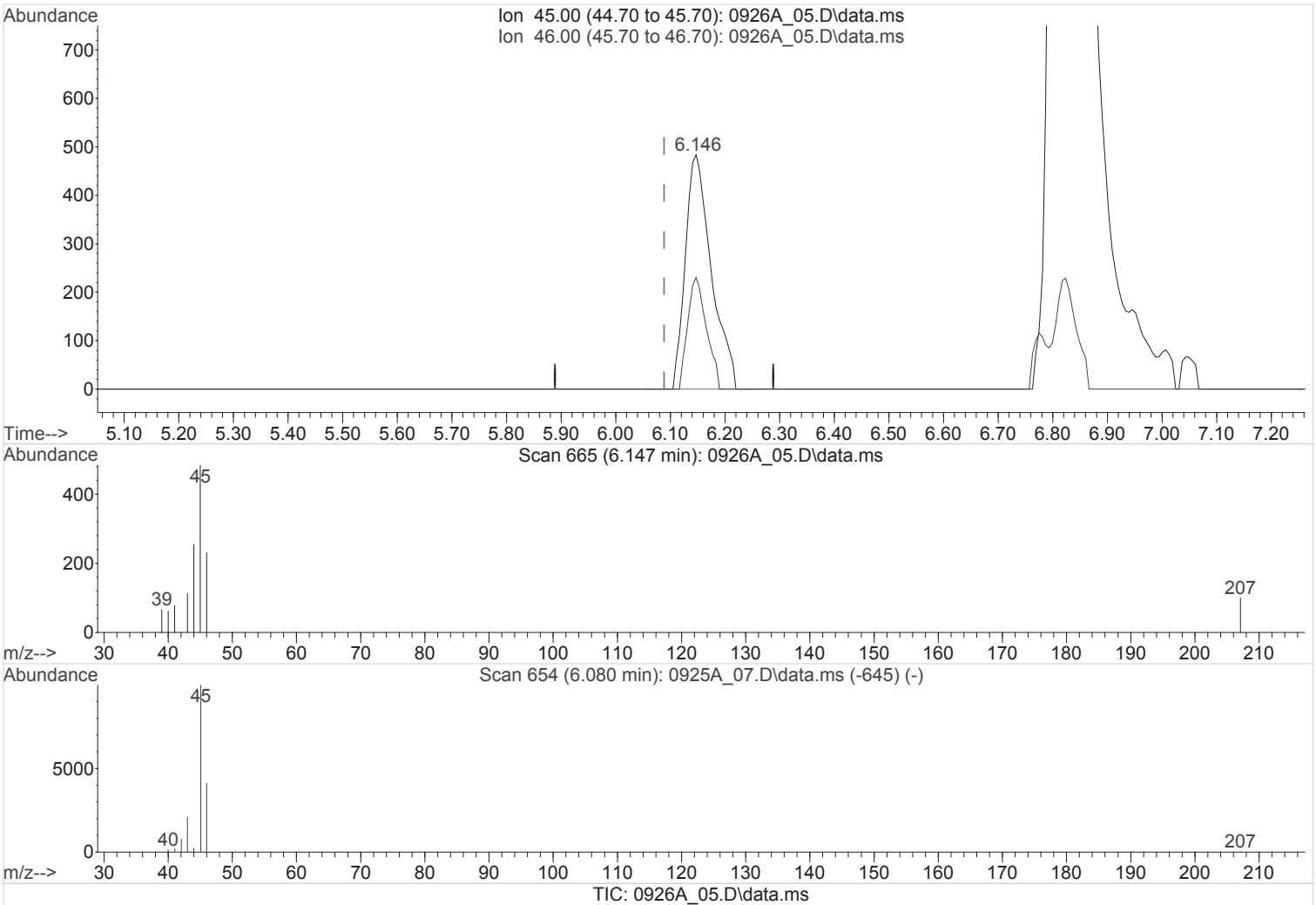
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(14) Ethanol (T,M)

6.147min (+0.058) 0.6033090 ppbv m

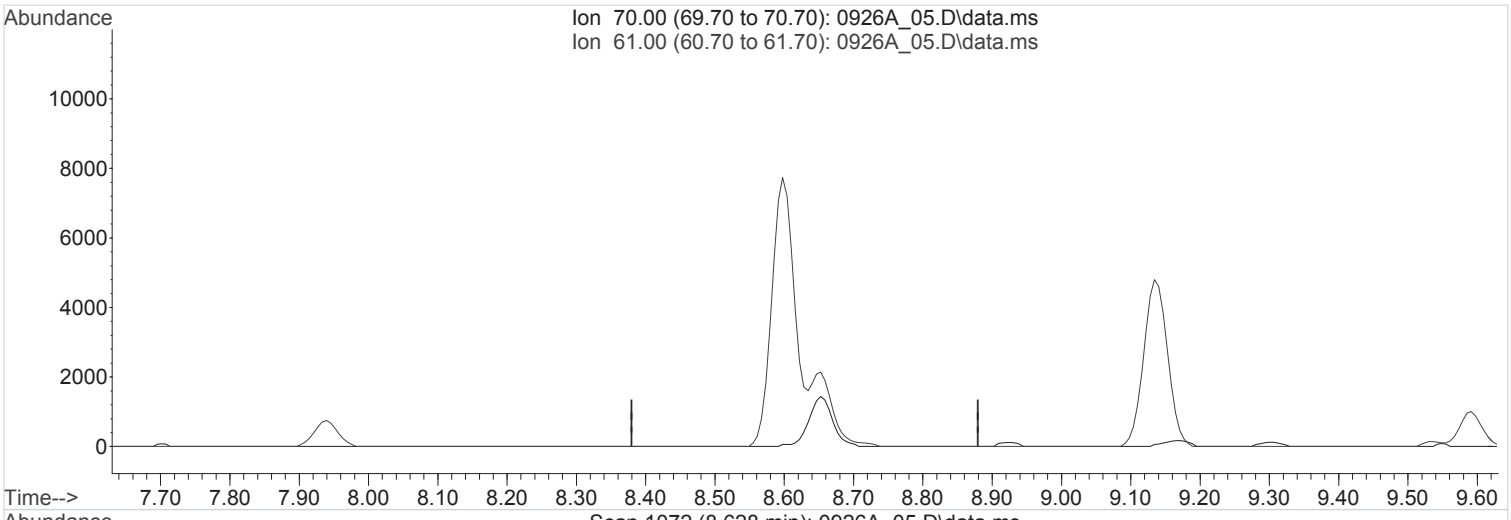
response 15915

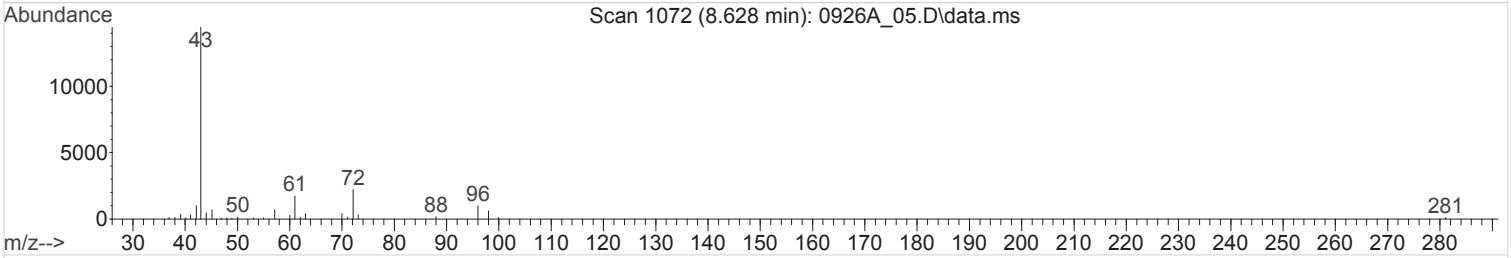
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

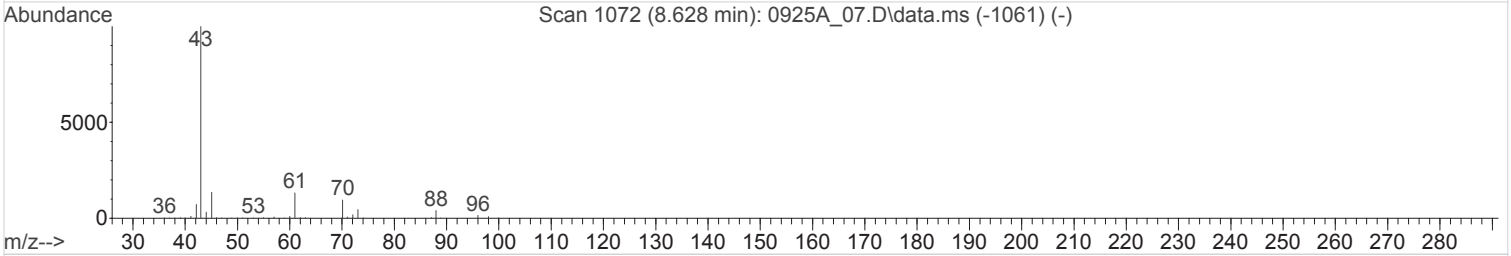
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(28) ETHYL ACETATE

8.630min (-8.630) 0.0000000 ppbv

Qvalue = 0

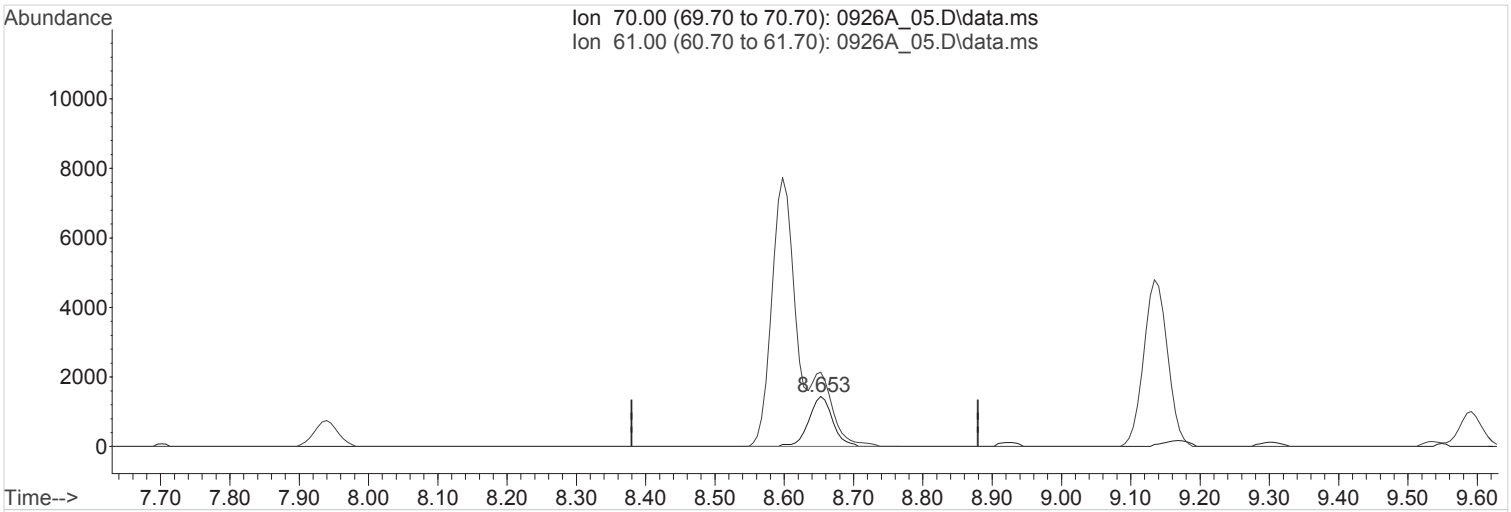
response 0

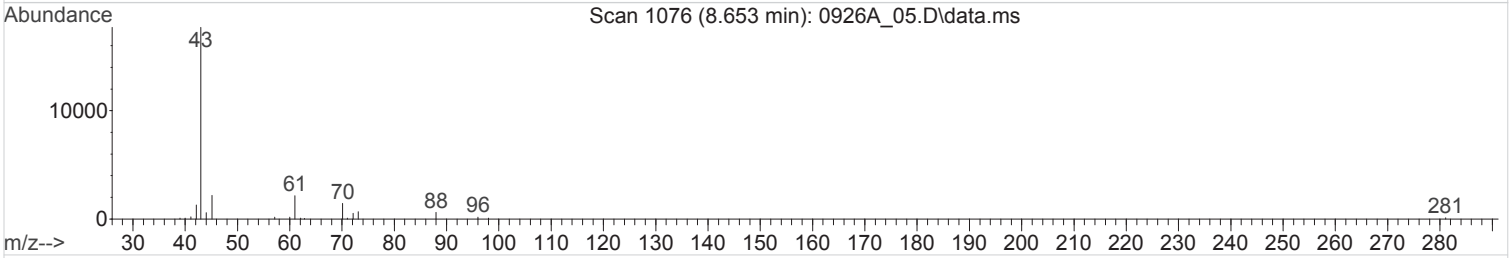
Ion	Exp%	Act%
70.00	100	0.00
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

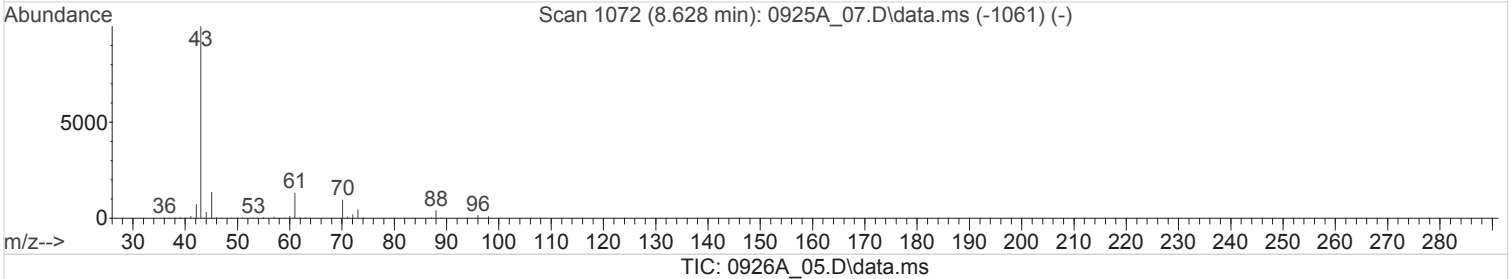
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(28) ETHYL ACETATE

8.653min (+0.023) 0.6636910 ppbv m

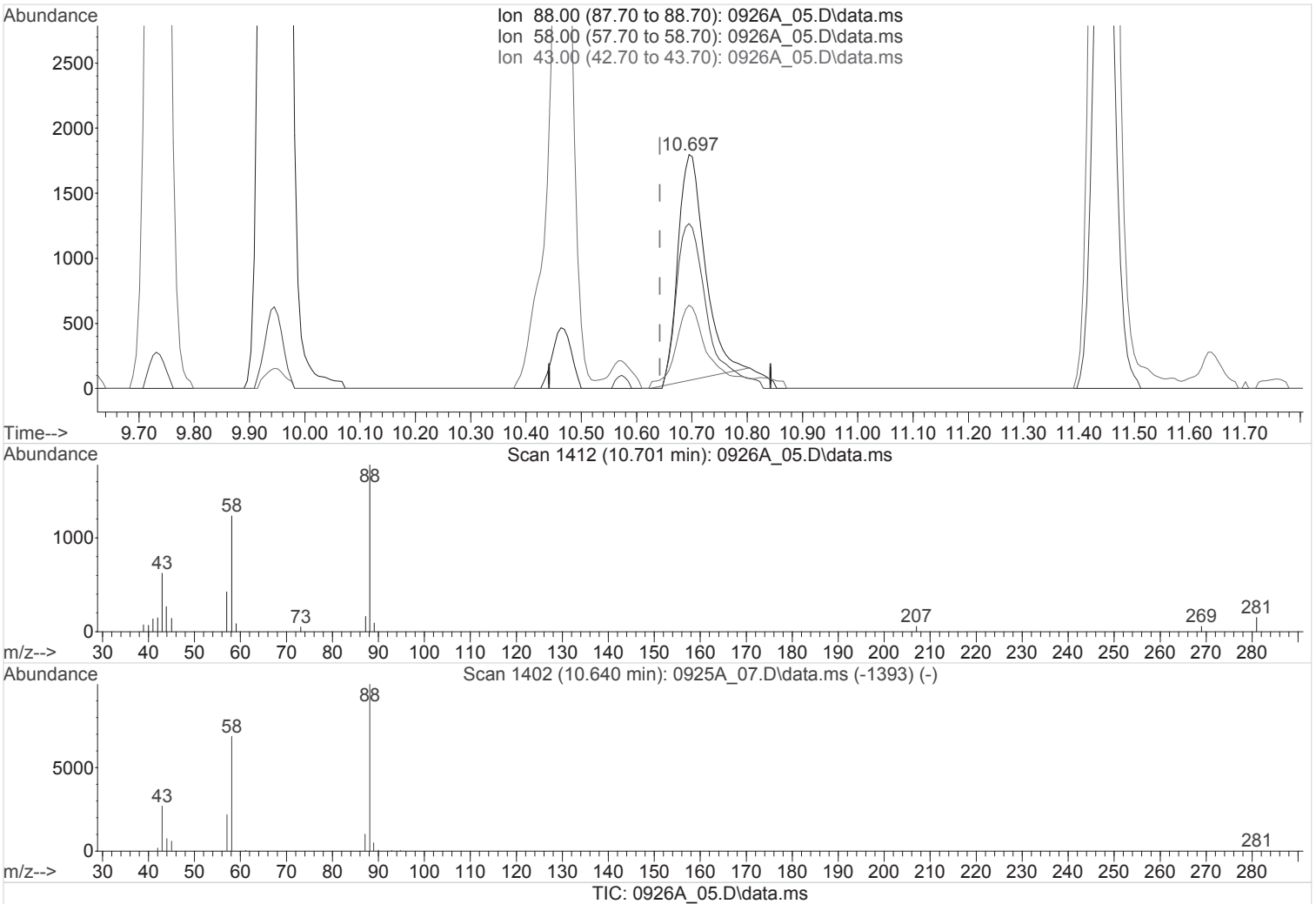
response 34272

Ion	Exp%	Act%
70.00	100	100
61.00	601.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration



TIC: 0926A_05.D\data.ms

(46) 1,4-Dioxane (T,M)

10.700min (+0.057) 0.5665901 ppbv

Qvalue = 95

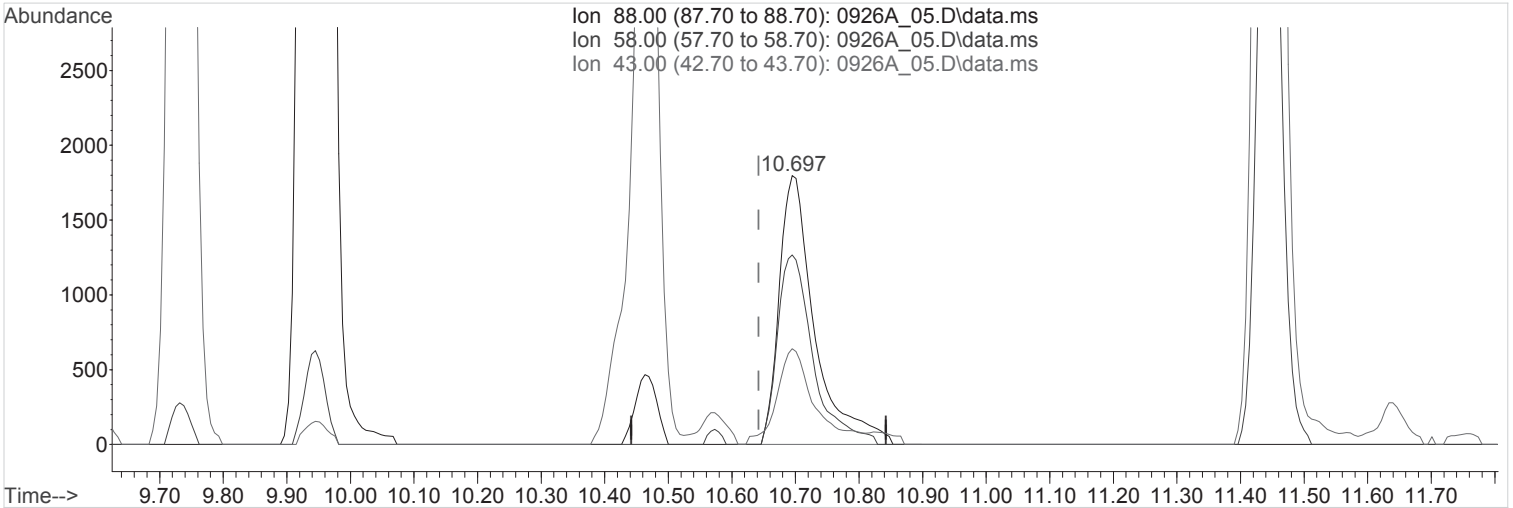
response 58289

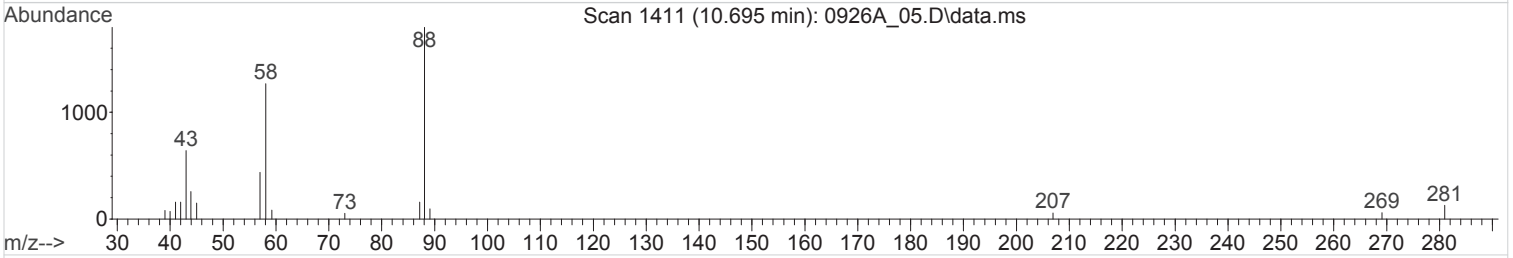
Ion	Exp%	Act%
88.00	100	100
58.00	73.40	77.98
43.00	0.00	0.00
0.00	0.00	0.00

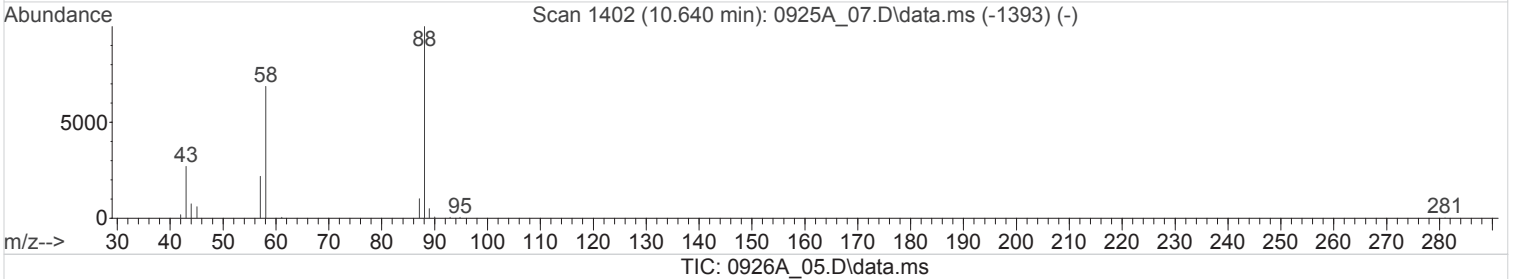
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(46) 1,4-Dioxane (T,M)

10.695min (+0.053) 0.6799724 ppbv m

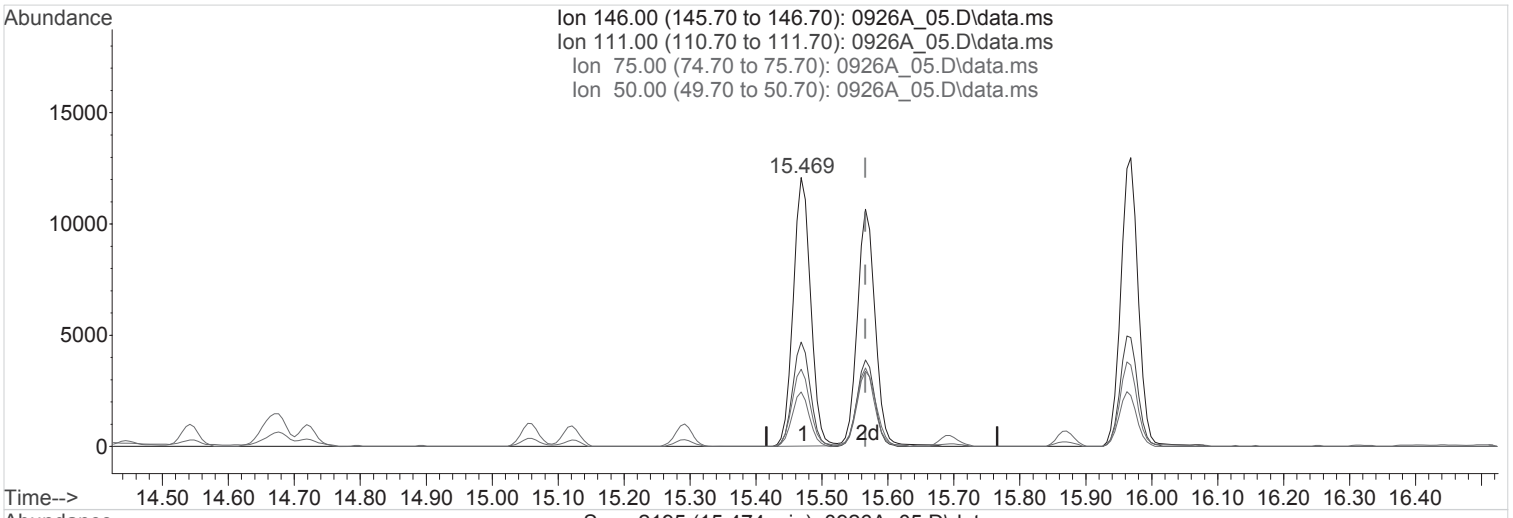
response 69953

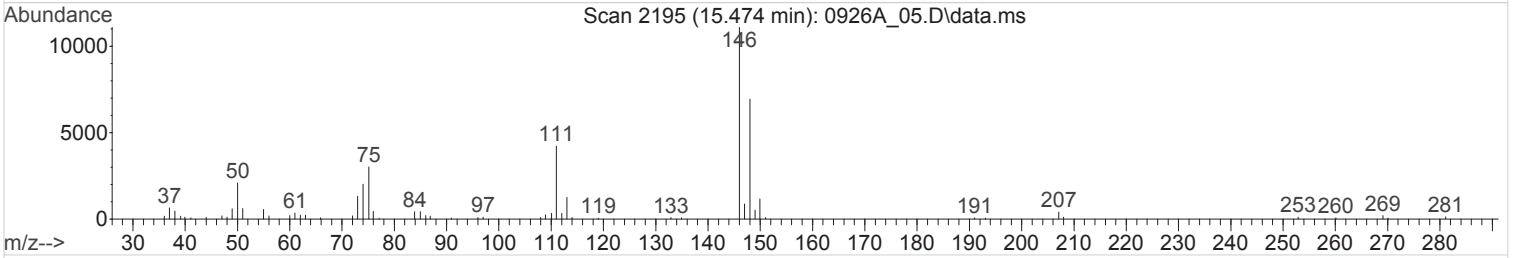
Ion	Exp%	Act%
88.00	100	100
58.00	73.40	64.98
43.00	0.00	0.00
0.00	0.00	0.00

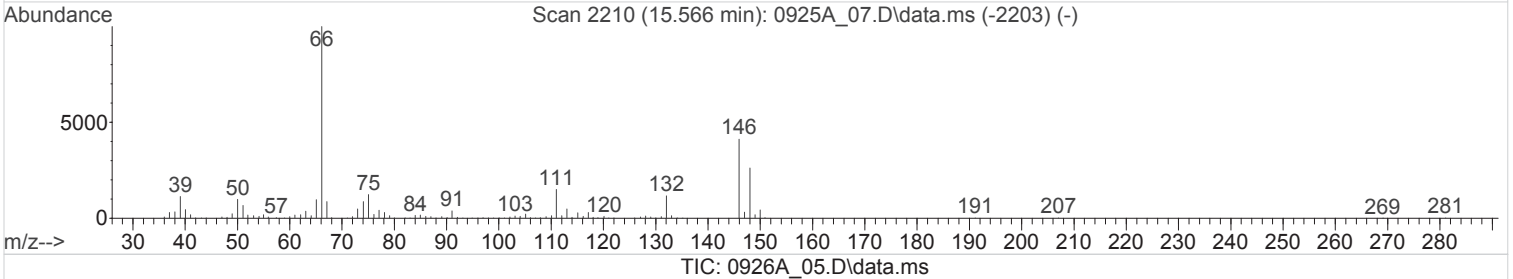
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.472min (-0.094) 0.6468844 ppbv

Qvalue = 98

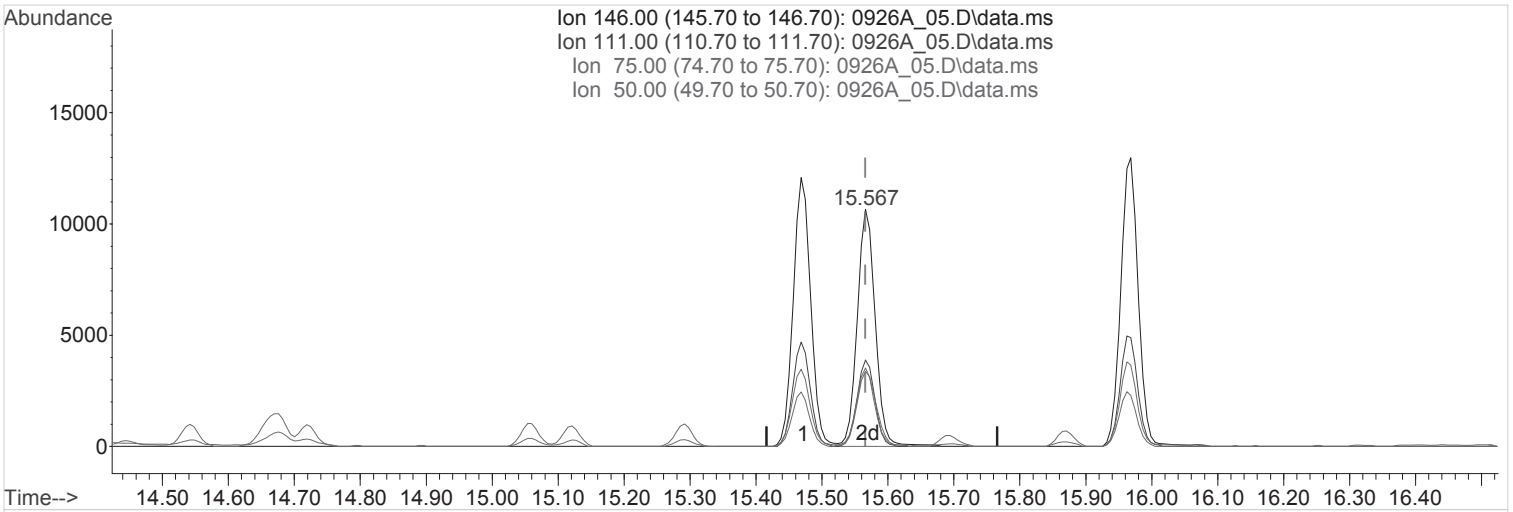
response 220888

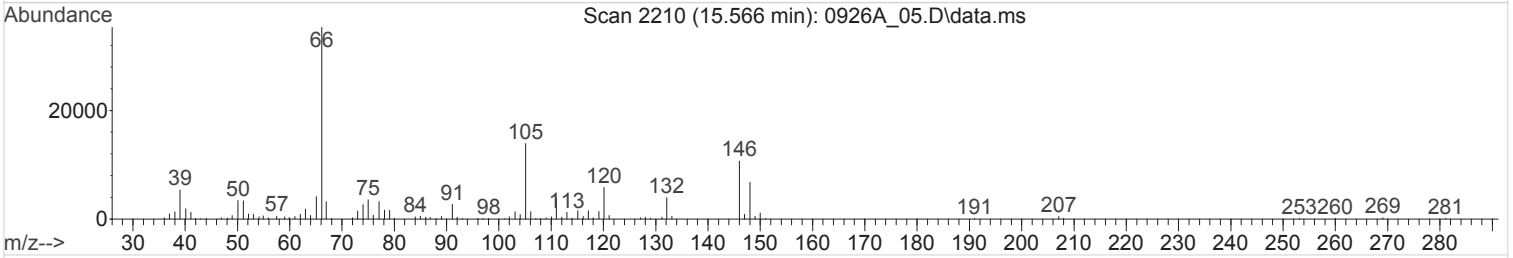
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.37
75.00	30.50	27.88
50.00	20.30	20.45

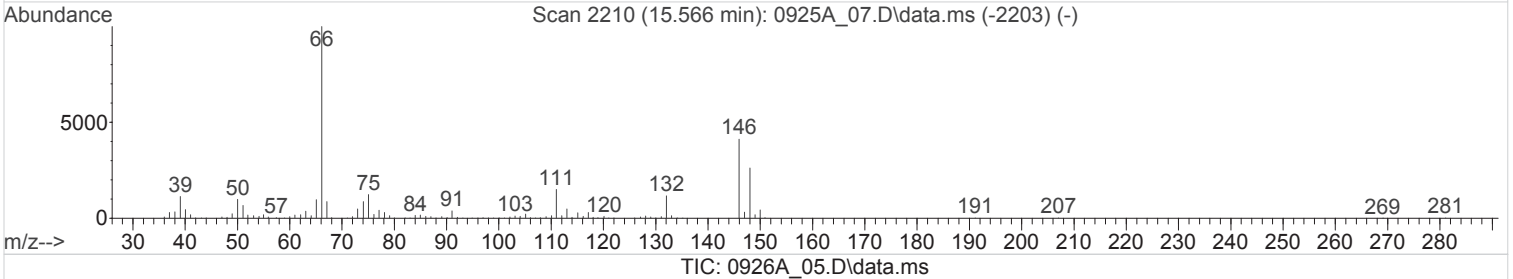
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_05.D
Acq On : 26 Sep 2016 2:40 pm
Operator : 564
Sample : STD AMS 0.63 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:50:45 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:50:37 2016
Response via : Initial Calibration







TIC: 0926A_05.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (+0.000) 0.5924315 ppbv m

response 202295

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	42.99
75.00	30.50	30.44
50.00	20.30	22.33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:53:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.864	130	1214434	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.947	114	4901958	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.163	117	3650336	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.331	95	2271260	4.2004715	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.01%				
Target Compounds							Qvalue
2) Propene	4.080	41	264537	1.4369137	ppbv		99
3) 1,1-DIFLUOROETHANE	4.091	65	166689	1.4129418	ppbv		99
4) Dichlorodifluoromethane	4.144	85	573264	1.4660388	ppbv		100
5) CHLORODIFLUOROMETHANE	4.179	67	62135	1.4527577	ppbv		94
6) 1,2-Dichlorotetrafluor...	4.381	85	633755	1.4342119	ppbv		100
7) Chloromethane	4.482	50	259859	1.3856056	ppbv		100
8) Vinyl Chloride	4.681	62	288570	1.4570017	ppbv		99
9) 1,3-Butadiene	4.746	39	236550	1.4200544	ppbv		99
10) Bromomethane	5.239	94	212097	1.3636008	ppbv		99
11) Chloroethane	5.400	64	140721	1.3704838	ppbv		98
12) Vinyl Bromide	5.673	106	211699	1.3875363	ppbv		99
13) Trichlorofluoromethane	5.756	101	486791	1.4138956	ppbv		99
14) Ethanol	6.098	45	37718m	1.5024175	ppbv		
15) 1,1,2-Trichlorotrifluo...	6.453	101	447504	1.3892776	ppbv		100
16) 1,1-Dichloroethene	6.478	61	399827	1.4035523	ppbv		99
17) Acetone	6.591	43	803097	1.4139327	ppbv		100
18) 2-Propanol	6.779	45	488343	1.3858733	ppbv	#	74
19) Carbon Disulfide	6.772	76	666890	1.3501317	ppbv		97
20) Allyl Chloride	6.946	41	363266	1.3994071	ppbv	#	45
21) Methylene Chloride	7.113	49	312606	1.2244150	ppbv		99
22) TERT-BUTYL ALCOHOL	7.279	59	584730	1.3271624	ppbv		99
23) Methyl Tert-Butyl Ether	7.438	73	695880	1.3206341	ppbv		98
24) Trans-1,2-Dichloroethene	7.421	96	227025	1.3108963	ppbv		100
25) n-Hexane	7.689	57	409181	1.3559757	ppbv		99
26) 1,1-Dichloroethane	7.935	63	453374	1.3693172	ppbv		100
27) Vinyl Acetate	7.965	43	438082	1.3802766	ppbv		100
28) ETHYL ACETATE	8.636	70	71789	1.4262356	ppbv		97
29) 2-Butanone (MEK)	8.608	72	114951	1.3389779	ppbv		97
30) cis-1,2-Dichloroethene	8.596	61	438800	1.5520489	ppbv		98
31) Tetrahydrofuran	8.931	42	331390	1.3486268	ppbv		100
32) Chloroform	8.923	83	462107	1.3734333	ppbv		97
33) Cyclohexane	9.169	84	348497	1.3857428	ppbv		100
34) 1,1,1-Trichloroethane	9.136	97	440447	1.4071357	ppbv		99
35) Carbon Tetrachloride	9.303	117	407886	1.3851039	ppbv		99
36) 2,2,4-Trimethylpentane	9.544	57	1391075	1.3846912	ppbv		99
38) Benzene	9.535	78	804783	1.3733834	ppbv		99
39) 1,2-Dichloroethane	9.590	62	331200	1.4146820	ppbv		99
40) Heptane	9.735	43	557721	1.4112031	ppbv		99
41) Trichloroethene	10.239	95	315942	1.3833947	ppbv		100
42) TERT-AMYL ETHYL ETHER	10.453	73	249673	1.2741570	ppbv		99
43) METHYL CYCLOHEXANE	10.423	83	445772	1.3833818	ppbv		99
44) 1,2-Dichloropropane	10.508	63	296979	1.3685758	ppbv		98
45) Methyl Methacrylate	10.566	69	268725	1.2082720	ppbv		95
46) 1,4-Dioxane	10.658	88	138056	1.3741095	ppbv	#	99
47) Bromodichloromethane	10.785	83	496500	1.4296785	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:53:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration

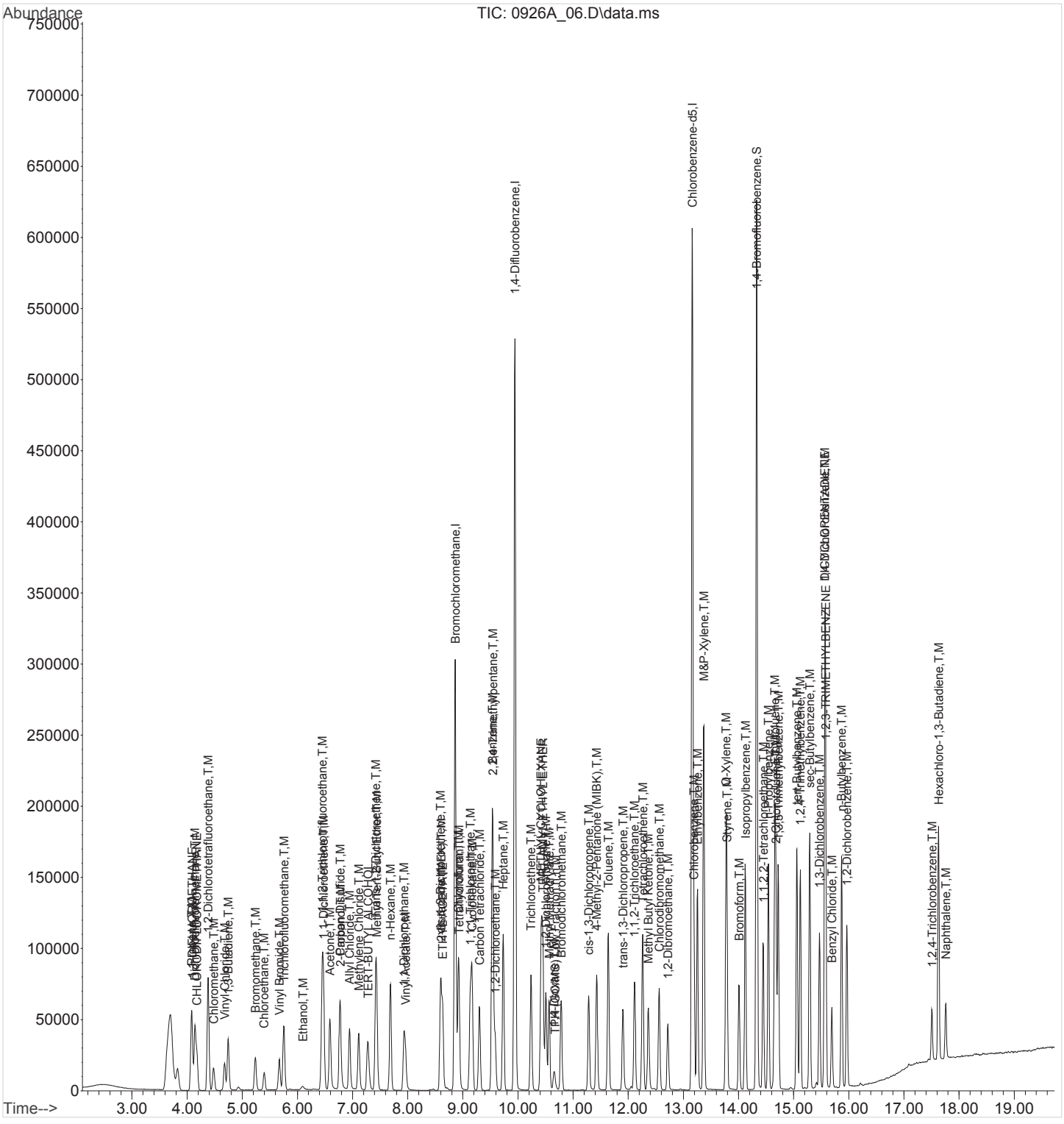
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.285	75	451686	1.4088558	ppbv	98
49) 4-Methyl-2-Pentanone (...	11.429	43	712208	1.3314200	ppbv	100
50) Toluene	11.640	91	968672	1.3919830	ppbv	100
51) trans-1,3-Dichloropropene	11.906	75	351125	1.3640402	ppbv	99
52) 1,1,2-Trichloroethane	12.118	97	294329	1.4030143	ppbv	99
53) Tetrachloroethene	12.266	166	419196	1.4179336	ppbv	99
54) Methyl Butyl Ketone	12.366	43	516911	1.3499492	ppbv	99
55) Chlorodibromomethane	12.564	129	448877	1.4417692	ppbv	99
56) 1,2-Dibromoethane	12.720	107	385346	1.3961087	ppbv	98
57) Chlorobenzene	13.193	112	627377	1.3994795	ppbv	98
59) Ethylbenzene	13.256	91	1108035	1.3539674	ppbv	99
60) M&P-Xylene	13.371	91	1651651	2.5853134	ppbv	100
61) O-Xylene	13.775	91	847388	1.3330506	ppbv	100
62) Styrene	13.792	104	595416	1.3917091	ppbv	98
63) Bromoform	14.011	173	397859	1.4394795	ppbv	99
64) Isopropylbenzene	14.125	105	1180545	1.3353925	ppbv	100
65) 1,1,2,2-Tetrachloroethane	14.449	83	612326	1.3549193	ppbv	100
66) n-Propylbenzene	14.544	91	1411488	1.3830639	ppbv	100
67) 4-Ethyltoluene	14.659	105	1136089	1.3659573	ppbv	99
68) 2-Chlorotoluene	14.679	91	1068379	1.3786469	ppbv	99
70) 1,3,5-Trimethylbenzene	14.722	105	957001	1.3036126	ppbv	100
71) tert-Butylbenzene	15.060	119	945958	1.3238653	ppbv	100
72) 1,2,4-Trimethylbenzene	15.123	105	938174	1.3010824	ppbv	99
73) sec-Butylbenzene	15.293	105	1472924	1.2947557	ppbv	100
74) 1,3-Dichlorobenzene	15.471	146	511254	1.4480688	ppbv	98
75) 1,4-Dichlorobenzene	15.566	146	476413m	1.4546269	ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.581	105	977531	1.3231373	ppbv	100
77) DICYCLOPENTADIENE	15.568	66	1369612	1.3472597	ppbv	100
78) Benzyl Chloride	15.694	91	465831	1.3471572	ppbv	99
79) n-Butylbenzene	15.872	91	1041957	1.3064837	ppbv	99
80) 1,2-Dichlorobenzene	15.968	146	521972	1.3584803	ppbv	100
81) 1,2,4-Trichlorobenzene	17.510	180	129783	1.3688320	ppbv	97
82) Hexachloro-1,3-Butadiene	17.631	225	364065	1.2820332	ppbv	99
83) Naphthalene	17.761	128	342161	1.3342433	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	89003112m	59.7563828	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

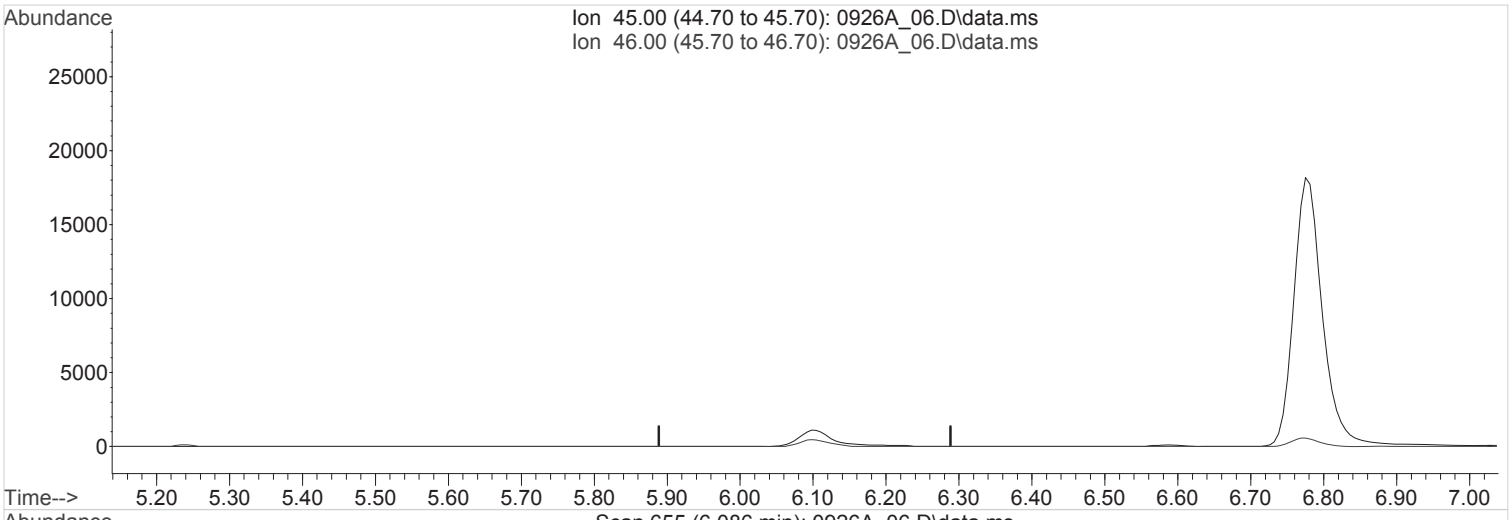
Quant Time: Sep 27 07:53:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration

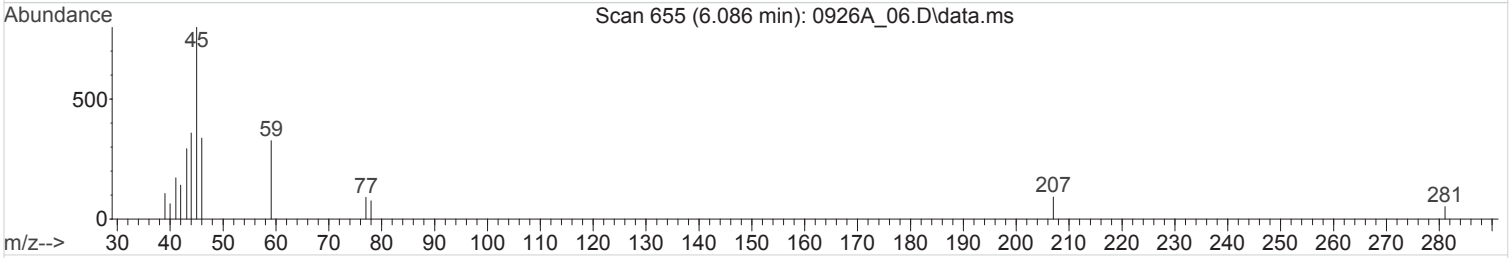


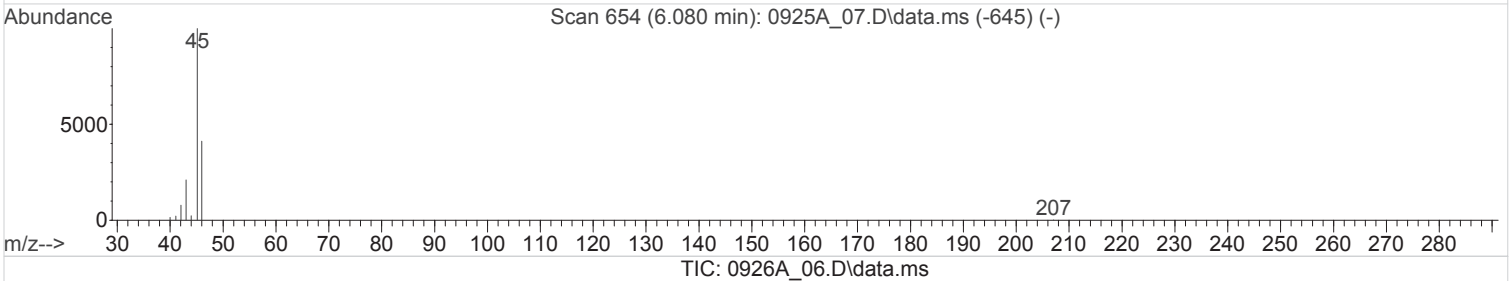
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(14) Ethanol (T,M)

6.089min (-6.089) 0.0000000 ppbv

Qvalue = 0

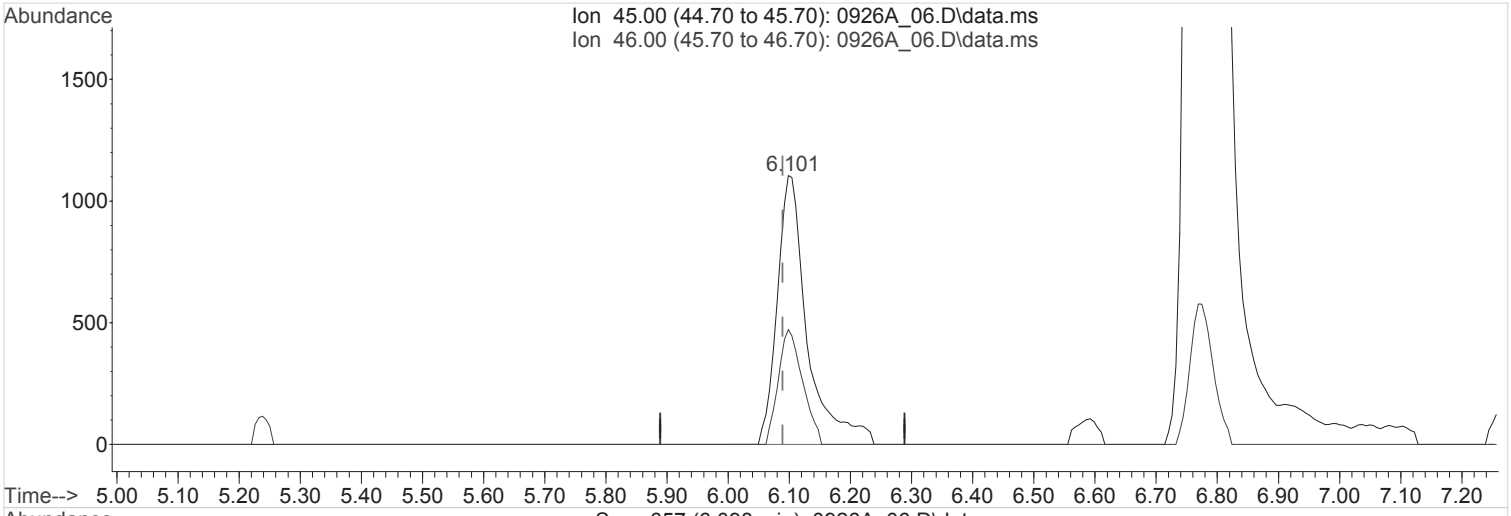
response 0

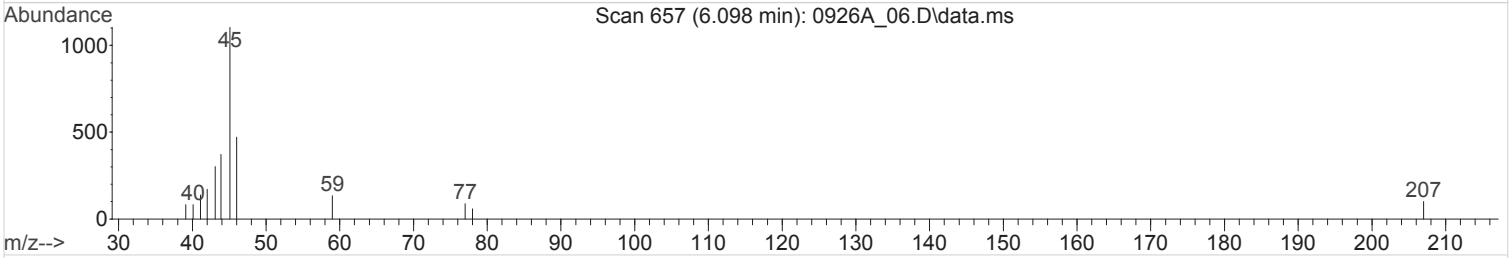
Ion	Exp%	Act%
45.00	100	0.00
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

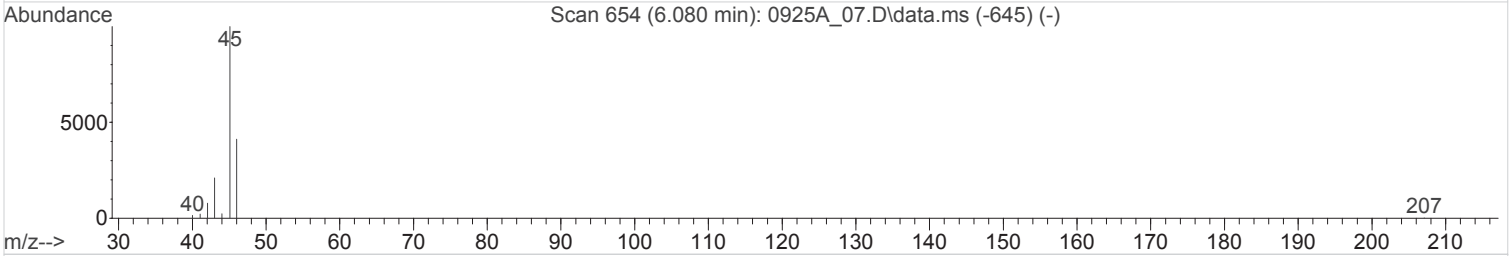
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(14) Ethanol (T,M)

6.098min (+0.009) 1.5024175 ppbv m

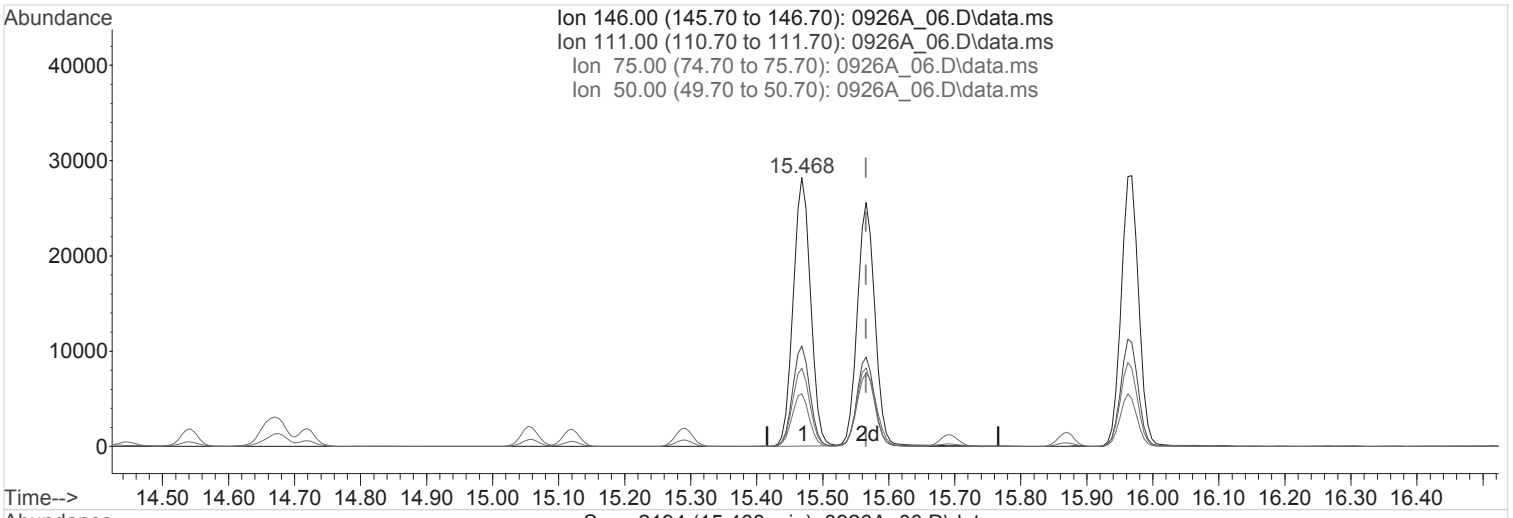
response 37718

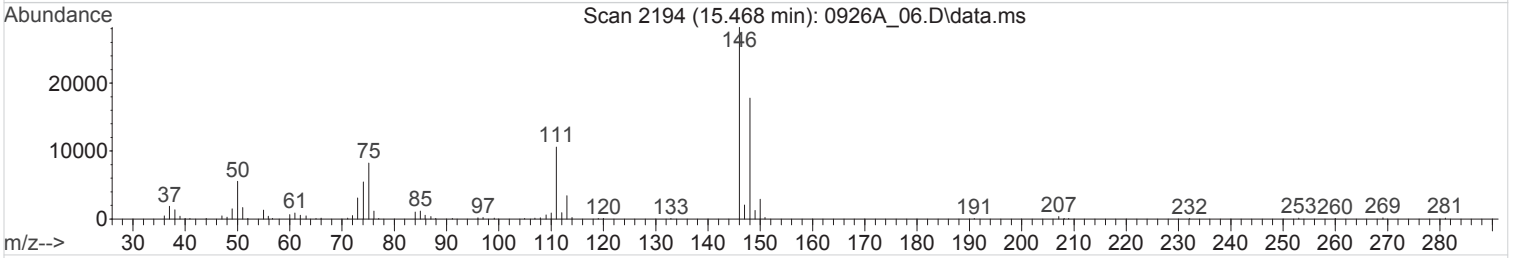
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

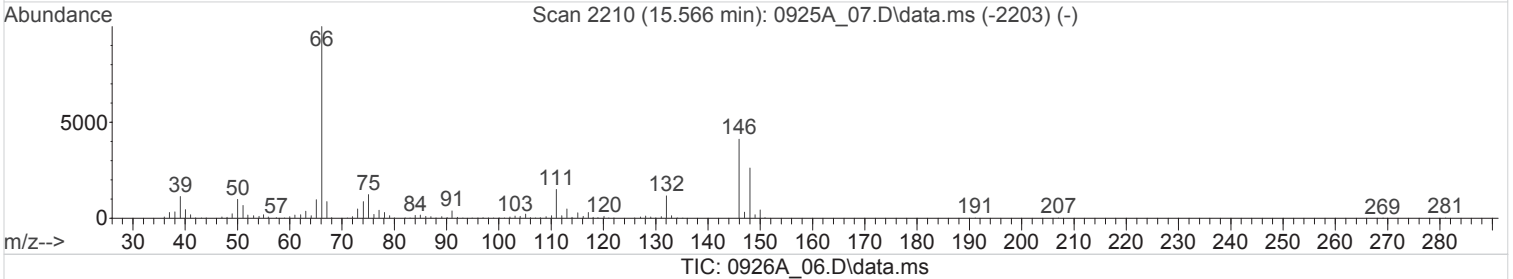
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.471min (-0.095) 1.5681576 ppbv

Qvalue = 98

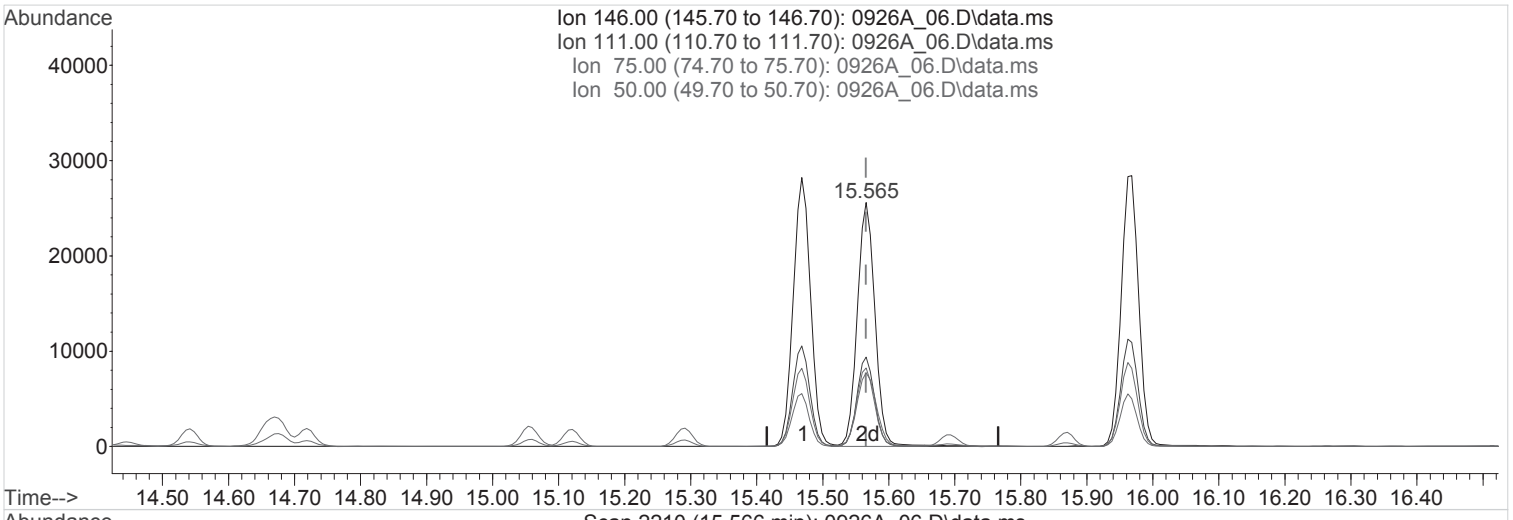
response 513596

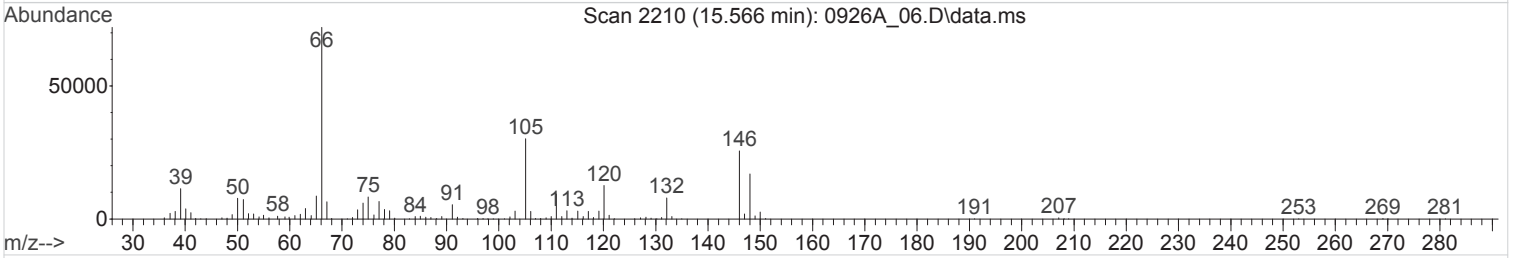
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	37.53
75.00	30.50	29.45
50.00	20.30	19.33

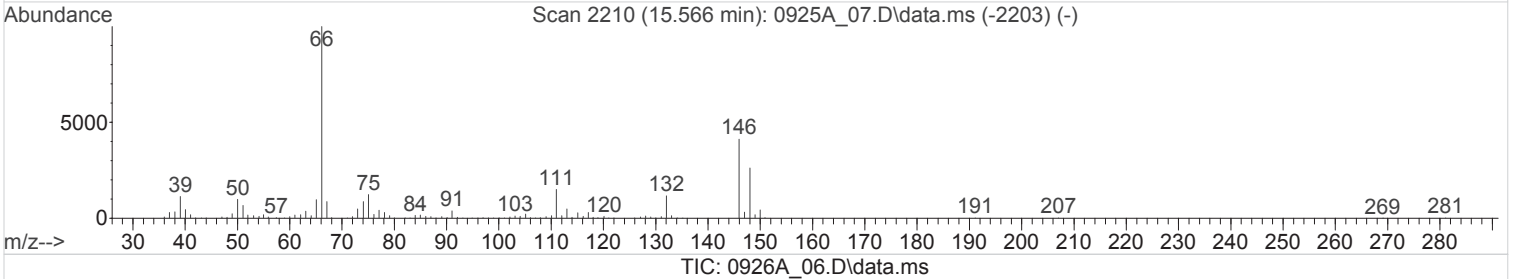
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_06.D
Acq On : 26 Sep 2016 3:23 pm
Operator : 564
Sample : STD AMS 1.25 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:52:21 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:52:17 2016
Response via : Initial Calibration







TIC: 0926A_06.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (-0.000) 1.4546269 ppbv m

response 476413

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	40.46
75.00	30.50	31.75
50.00	20.30	20.84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_07.D
Acq On : 26 Sep 2016 4:07 pm
Operator : 564
Sample : STD AMS 2.5 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:54:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:53:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.871	130	1203227	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.952	114	4906916	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.165	117	3656078	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.333	95	2313535	4.2295391	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.74%				
Target Compounds							Qvalue
2) Propene	4.085	41	486299	2.5886657	ppbv		98
3) 1,1-DIFLUOROETHANE	4.103	65	336810	2.8083464	ppbv		97
4) Dichlorodifluoromethane	4.156	85	1152563	2.8755666	ppbv		99
5) CHLORODIFLUOROMETHANE	4.192	67	123101	2.8137028	ppbv		97
6) 1,2-Dichlorotetrafluor...	4.397	85	1278776	2.8372504	ppbv		99
7) Chloromethane	4.493	50	535203	2.8191878	ppbv		100
8) Vinyl Chloride	4.694	62	575235	2.8374599	ppbv		100
9) 1,3-Butadiene	4.759	39	492719	2.9063593	ppbv		98
10) Bromomethane	5.252	94	435306	2.7742839	ppbv		99
11) Chloroethane	5.413	64	298496	2.8786365	ppbv		99
12) Vinyl Bromide	5.686	106	433796	2.8079155	ppbv		99
13) Trichlorofluoromethane	5.769	101	990566	2.8297171	ppbv		100
14) Ethanol	6.123	45	72074	2.7851252	ppbv		97
15) 1,1,2-Trichlorotrifluo...	6.465	101	916911	2.8104406	ppbv		99
16) 1,1-Dichloroethene	6.489	61	820532	2.8375151	ppbv		100
17) Acetone	6.597	43	1688960	2.9245705	ppbv		100
18) 2-Propanol	6.792	45	1010234	2.8320906	ppbv	#	74
19) Carbon Disulfide	6.782	76	1377144	2.7696522	ppbv		100
20) Allyl Chloride	6.957	41	758895	2.8818250	ppbv		99
21) Methylene Chloride	7.123	49	625782	2.4840613	ppbv		99
22) TERT-BUTYL ALCOHOL	7.288	59	1128962	2.5547322	ppbv		99
23) Methyl Tert-Butyl Ether	7.443	73	1438635	2.7248624	ppbv		98
24) Trans-1,2-Dichloroethene	7.430	96	467981	2.7010824	ppbv		100
25) n-Hexane	7.699	57	839399	2.7607646	ppbv		100
26) 1,1-Dichloroethane	7.944	63	925004	2.7669727	ppbv		100
27) Vinyl Acetate	7.972	43	897567	2.7960490	ppbv		99
28) ETHYL ACETATE	8.641	70	151134	2.9474554	ppbv		97
29) 2-Butanone (MEK)	8.611	72	245984	2.8513805	ppbv		99
30) cis-1,2-Dichloroethene	8.604	61	904124	3.0789081	ppbv		99
31) Tetrahydrofuran	8.933	42	688238	2.7830312	ppbv		100
32) Chloroform	8.930	83	955704	2.8113953	ppbv		100
33) Cyclohexane	9.175	84	725670	2.8504828	ppbv		99
34) 1,1,1-Trichloroethane	9.143	97	899471	2.8292562	ppbv		99
35) Carbon Tetrachloride	9.310	117	843374	2.8294498	ppbv		100
36) 2,2,4-Trimethylpentane	9.550	57	2848728	2.8016884	ppbv		100
38) Benzene	9.541	78	1650276	2.7589288	ppbv		100
39) 1,2-Dichloroethane	9.595	62	668962	2.7812217	ppbv		99
40) Heptane	9.740	43	1139879	2.8088756	ppbv		100
41) Trichloroethene	10.243	95	635564	2.7219958	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.454	73	513123	2.6058990	ppbv		98
43) METHYL CYCLOHEXANE	10.428	83	924784	2.8071122	ppbv		99
44) 1,2-Dichloropropane	10.512	63	604469	2.7309620	ppbv		98
45) Methyl Methacrylate	10.569	69	564577	2.5529983	ppbv		98
46) 1,4-Dioxane	10.658	88	274345	2.6747655	ppbv	#	98
47) Bromodichloromethane	10.789	83	1030722	2.8821221	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_07.D
Acq On : 26 Sep 2016 4:07 pm
Operator : 564
Sample : STD AMS 2.5 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS2

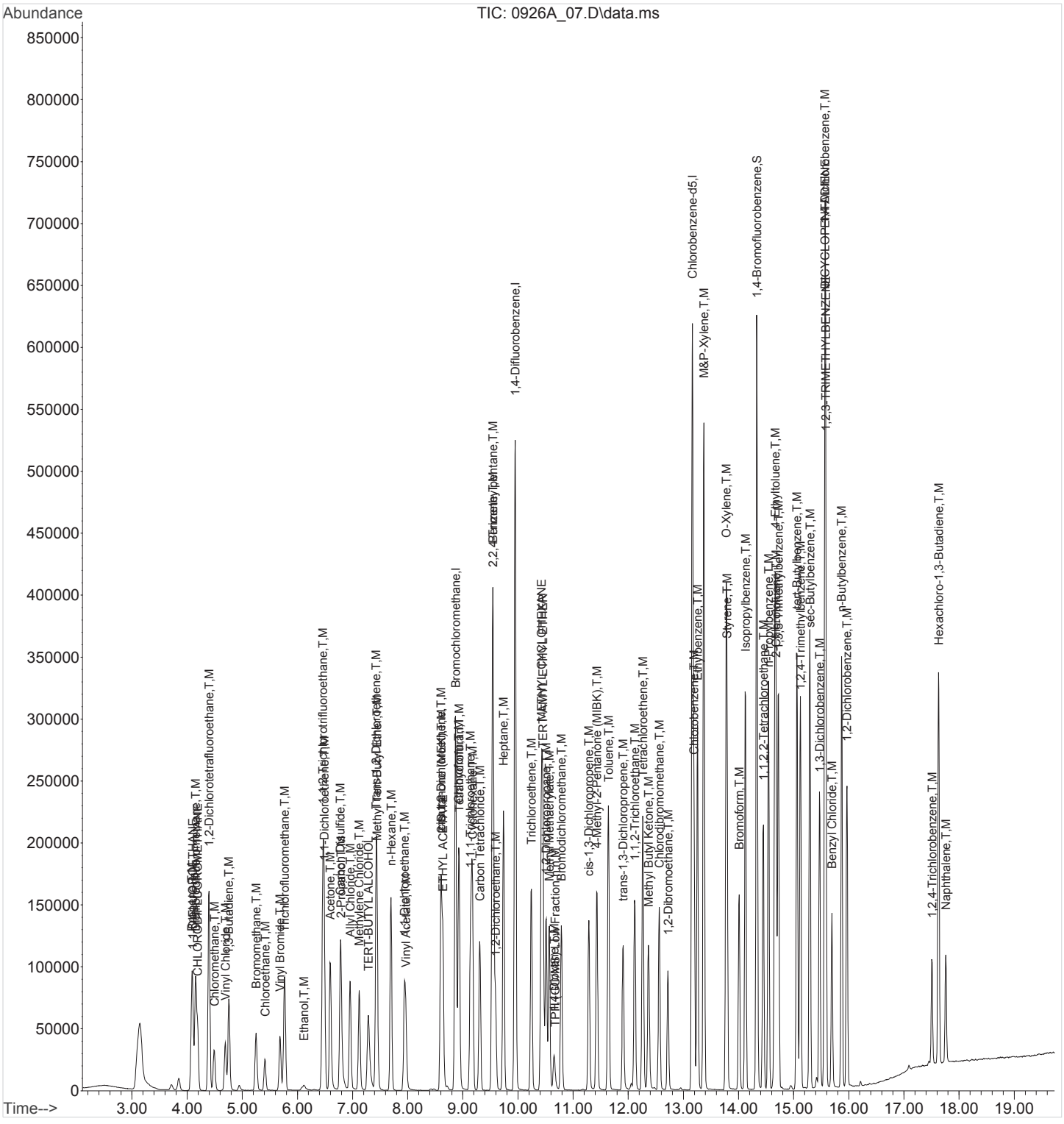
Quant Time: Sep 27 07:54:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:53:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.287	75	919271	2.7934059 ppbv	99
49) 4-Methyl-2-Pentanone (...	11.432	43	1426643	2.6300448 ppbv	99
50) Toluene	11.643	91	1985813	2.7874119 ppbv	99
51) trans-1,3-Dichloropropene	11.909	75	738272	2.8137803 ppbv	100
52) 1,1,2-Trichloroethane	12.120	97	600371	2.7906515 ppbv	100
53) Tetrachloroethene	12.267	166	844997	2.7806075 ppbv	99
54) Methyl Butyl Ketone	12.369	43	1090193	2.7994664 ppbv	99
55) Chlorodibromomethane	12.566	129	932765	2.9038667 ppbv	99
56) 1,2-Dibromoethane	12.722	107	801341	2.8340739 ppbv	100
57) Chlorobenzene	13.194	112	1273254	2.7710837 ppbv	98
59) Ethylbenzene	13.258	91	2286000	2.7433651 ppbv	100
60) M&P-Xylene	13.373	91	3377428	5.2425704 ppbv	99
61) O-Xylene	13.777	91	1759647	2.7275617 ppbv	99
62) Styrene	13.793	104	1276565	2.9130715 ppbv	100
63) Bromoform	14.013	173	829530	2.9084097 ppbv	99
64) Isopropylbenzene	14.127	105	2457068	2.7375826 ppbv	100
65) 1,1,2,2-Tetrachloroethane	14.451	83	1271653	2.7630388 ppbv	100
66) n-Propylbenzene	14.546	91	2935000	2.8115209 ppbv	99
67) 4-Ethyltoluene	14.661	105	2393210	2.8205853 ppbv	100
68) 2-Chlorotoluene	14.681	91	2193795	2.7694454 ppbv	99
70) 1,3,5-Trimethylbenzene	14.724	105	1981473	2.6719744 ppbv	99
71) tert-Butylbenzene	15.062	119	1932865	2.6692448 ppbv	99
72) 1,2,4-Trimethylbenzene	15.124	105	1967027	2.7015565 ppbv	99
73) sec-Butylbenzene	15.295	105	3021099	2.6326373 ppbv	100
74) 1,3-Dichlorobenzene	15.473	146	1105487	3.0302192 ppbv	99
75) 1,4-Dichlorobenzene	15.566	146	1064145m	3.1411968 ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	2003478	2.6762333 ppbv	100
77) DICYCLOPENTADIENE	15.570	66	2831169	2.7379828 ppbv	100
78) Benzyl Chloride	15.696	91	1146947	3.2610052 ppbv	100
79) n-Butylbenzene	15.873	91	2202543	2.7326811 ppbv	99
80) 1,2-Dichlorobenzene	15.969	146	1126352	2.8768988 ppbv	100
81) 1,2,4-Trichlorobenzene	17.511	180	302571	3.1267794 ppbv	99
82) Hexachloro-1,3-Butadiene	17.632	225	697647	2.4403564 ppbv	99
83) Naphthalene	17.762	128	781022	3.0003424 ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	181484058m	121.2410352 ppbv	

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

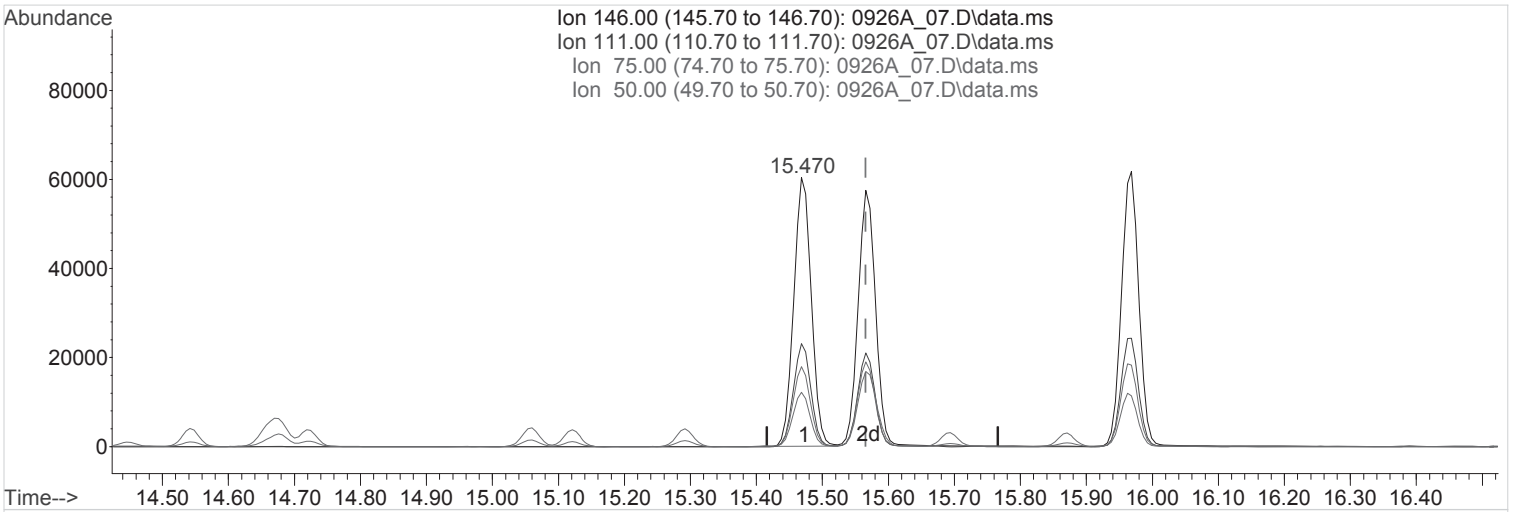
Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_07.D
Acq On : 26 Sep 2016 4:07 pm
Operator : 564
Sample : STD AMS 2.5 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS2

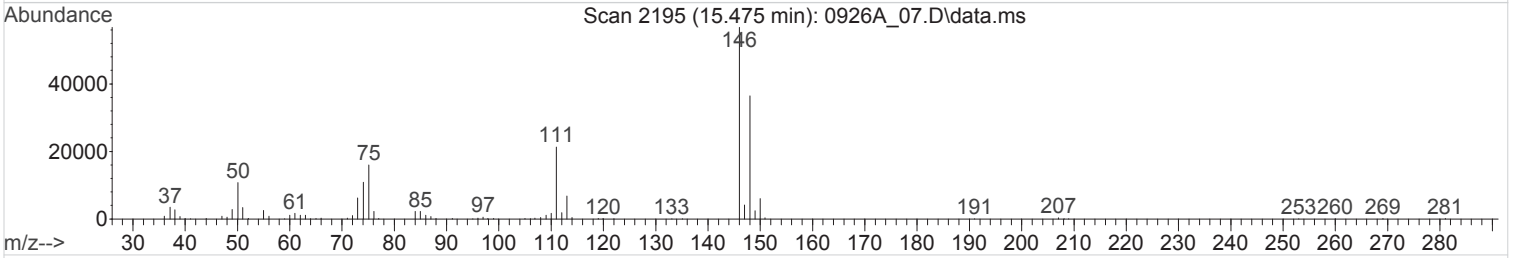
Quant Time: Sep 27 07:54:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:53:20 2016
Response via : Initial Calibration

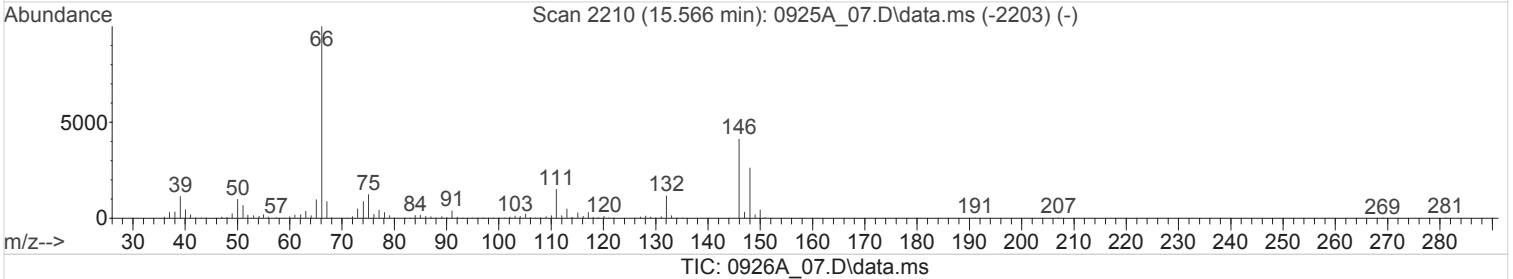


Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_07.D
Acq On : 26 Sep 2016 4:07 pm
Operator : 564
Sample : STD AMS 2.5 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:53:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:53:20 2016
Response via : Initial Calibration







TIC: 0926A_07.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.473min (-0.093) 3.2910387 ppbv

Qvalue = 98

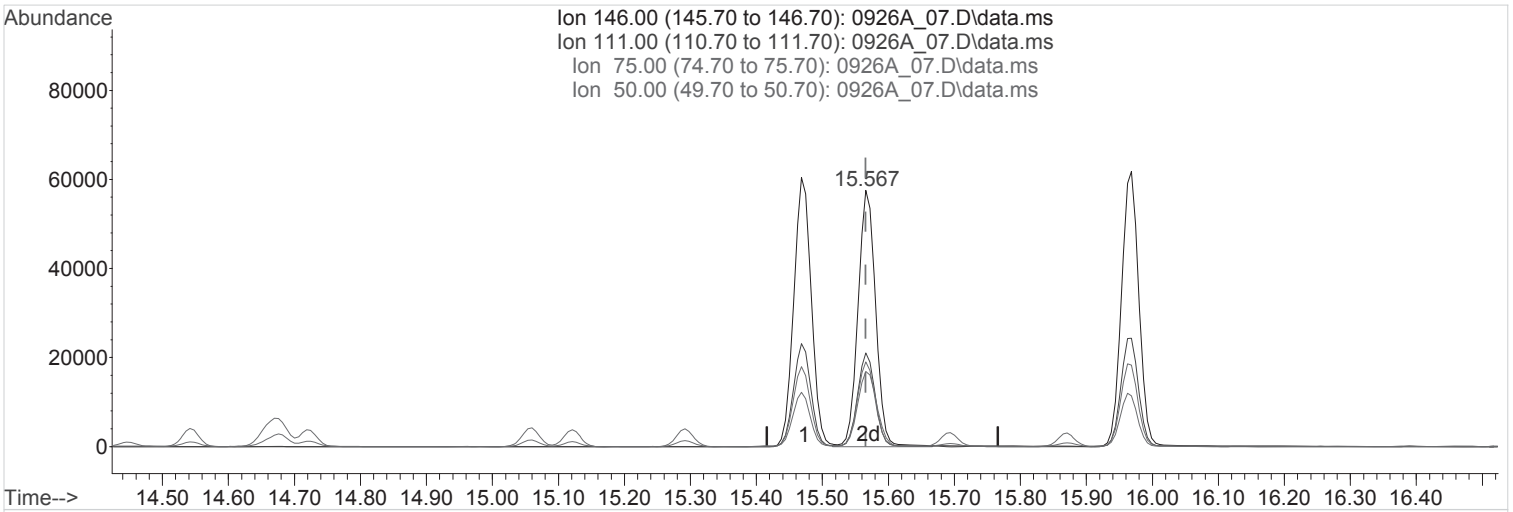
response 1114907

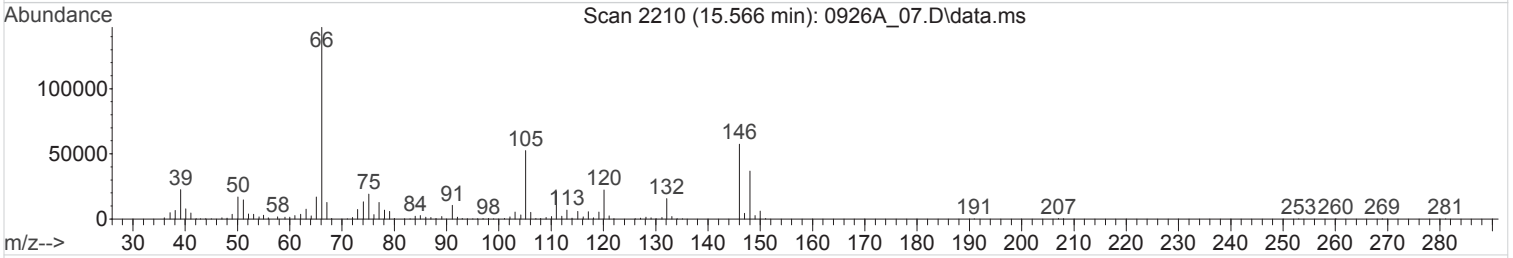
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	37.99
75.00	30.50	29.22
50.00	20.30	19.70

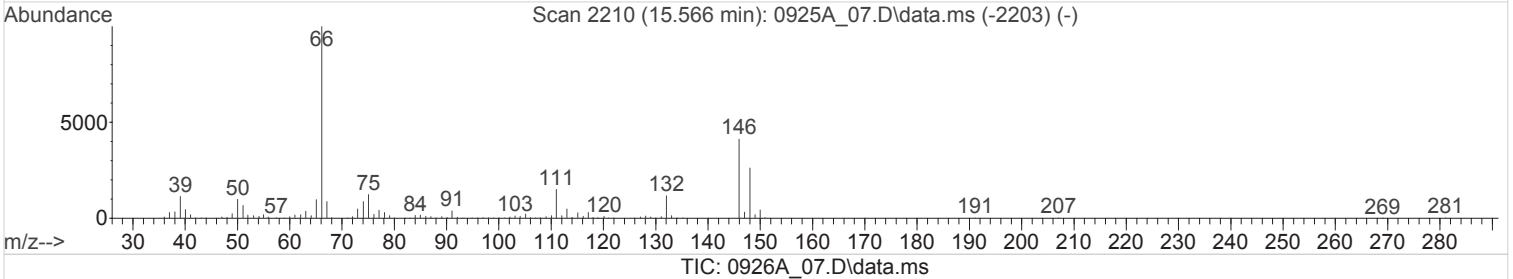
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_07.D
Acq On : 26 Sep 2016 4:07 pm
Operator : 564
Sample : STD AMS 2.5 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:53:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:53:20 2016
Response via : Initial Calibration







TIC: 0926A_07.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (+0.000) 3.1411968 ppbv m

response 1064145

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.80
75.00	30.50	30.62
50.00	20.30	20.64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:55:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:54:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.868	130	1186542	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.950	114	4843496	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3628362	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2352434	4.2924519	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.31%			
Target Compounds						Qvalue
2) Propene	4.089	41	829023	4.4488146	ppbv	100
3) 1,1-DIFLUOROETHANE	4.099	65	516024	4.2752624	ppbv	100
4) Dichlorodifluoromethane	4.153	85	1712144	4.2259417	ppbv	100
5) CHLORODIFLUOROMETHANE	4.186	67	189666	4.3060597	ppbv	100
6) 1,2-Dichlorotetrafluor...	4.388	85	1980545	4.3580879	ppbv	100
7) Chloromethane	4.488	50	832828	4.3559270	ppbv	100
8) Vinyl Chloride	4.686	62	899175	4.3987649	ppbv	100
9) 1,3-Butadiene	4.751	39	757611	4.4121631	ppbv	100
10) Bromomethane	5.243	94	671214	4.2600228	ppbv	100
11) Chloroethane	5.404	64	470639	4.4892541	ppbv	100
12) Vinyl Bromide	5.678	106	672974	4.3284887	ppbv	100
13) Trichlorofluoromethane	5.761	101	1528572	4.3327848	ppbv	100
14) Ethanol	6.089	45	122964	4.7286113	ppbv	100
15) 1,1,2-Trichlorotrifluo...	6.458	101	1379676	4.2013796	ppbv	100
16) 1,1-Dichloroethene	6.482	61	1241535	4.2579643	ppbv	100
17) Acetone	6.579	43	2600582	4.4407440	ppbv	100
18) 2-Propanol	6.761	45	1574708	4.3796480	ppbv #	74
19) Carbon Disulfide	6.776	76	2067702	4.1424775	ppbv	100
20) Allyl Chloride	6.950	41	1147714	4.3099012	ppbv	100
21) Methylene Chloride	7.116	49	919436	3.7049854	ppbv	100
22) TERT-BUTYL ALCOHOL	7.255	59	1795623	4.1054777	ppbv	100
23) Methyl Tert-Butyl Ether	7.426	73	2154684	4.0773660	ppbv	100
24) Trans-1,2-Dichloroethene	7.424	96	704415	4.0683630	ppbv	100
25) n-Hexane	7.693	57	1254938	4.1139834	ppbv	100
26) 1,1-Dichloroethane	7.939	63	1383642	4.1237074	ppbv	100
27) Vinyl Acetate	7.963	43	1396209	4.3251841	ppbv	100
28) ETHYL ACETATE	8.630	70	225755	4.3353207	ppbv	100
29) 2-Butanone (MEK)	8.601	72	374177	4.2976642	ppbv	100
30) cis-1,2-Dichloroethene	8.601	61	1367788	4.5478469	ppbv	100
31) Tetrahydrofuran	8.919	42	1050177	4.2265688	ppbv	100
32) Chloroform	8.927	83	1415544	4.1367821	ppbv	100
33) Cyclohexane	9.172	84	1068942	4.1607046	ppbv	100
34) 1,1,1-Trichloroethane	9.140	97	1342296	4.1895569	ppbv	100
35) Carbon Tetrachloride	9.307	117	1278249	4.2552636	ppbv	100
36) 2,2,4-Trimethylpentane	9.547	57	4293221	4.1972833	ppbv	100
38) Benzene	9.538	78	2475090	4.1208973	ppbv	100
39) 1,2-Dichloroethane	9.592	62	1004913	4.1547571	ppbv	100
40) Heptane	9.737	43	1702788	4.1651646	ppbv	100
41) Trichloroethene	10.241	95	954705	4.0819392	ppbv	100
42) TERT-AMYL ETHYL ETHER	10.446	73	761719	3.8915758	ppbv	100
43) METHYL CYCLOHEXANE	10.426	83	1380486	4.1600568	ppbv	100
44) 1,2-Dichloropropane	10.510	63	920306	4.1484645	ppbv	100
45) Methyl Methacrylate	10.563	69	863592	3.9423410	ppbv	100
46) 1,4-Dioxane	10.642	88	425409	4.1535045	ppbv #	100
47) Bromodichloromethane	10.787	83	1543653	4.2642749	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:55:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:54:19 2016
Response via : Initial Calibration

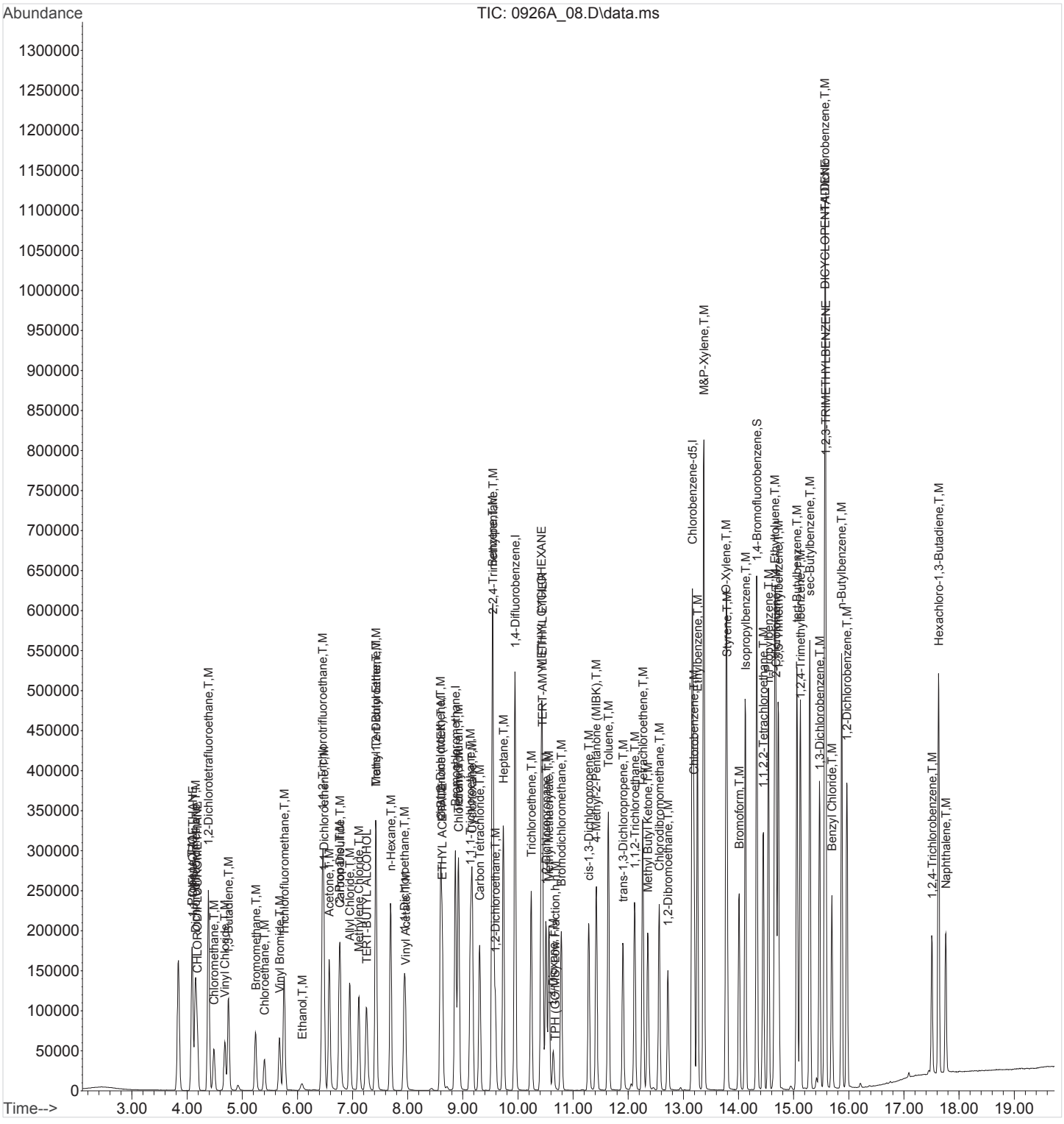
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.286	75	1405397	4.2435171	ppbv	100
49) 4-Methyl-2-Pentanone (...	11.422	43	2184978	4.0457189	ppbv	100
50) Toluene	11.642	91	3015089	4.2069736	ppbv	100
51) trans-1,3-Dichloropropene	11.907	75	1145394	4.3319907	ppbv	100
52) 1,1,2-Trichloroethane	12.119	97	913629	4.2205697	ppbv	100
53) Tetrachloroethene	12.267	166	1271153	4.1598960	ppbv	100
54) Methyl Butyl Ketone	12.358	43	1727464	4.4060121	ppbv	100
55) Chlorodibromomethane	12.565	129	1432784	4.4004432	ppbv	100
56) 1,2-Dibromoethane	12.721	107	1239092	4.3429101	ppbv	100
57) Chlorobenzene	13.194	112	1945365	4.2131486	ppbv	100
59) Ethylbenzene	13.257	91	3436869	4.0896442	ppbv	100
60) M&P-Xylene	13.372	91	5126323	7.9537416	ppbv	100
61) O-Xylene	13.777	91	2637623	4.0581432	ppbv	100
62) Styrene	13.792	104	1971138	4.4109515	ppbv	100
63) Bromoform	14.012	173	1307928	4.4982706	ppbv	100
64) Isopropylbenzene	14.126	105	3665828	4.0513727	ppbv	100
65) 1,1,2,2-Tetrachloroethane	14.450	83	1931753	4.1564732	ppbv	100
66) n-Propylbenzene	14.545	91	4442511	4.2008719	ppbv	100
67) 4-Ethyltoluene	14.660	105	3612848	4.2007703	ppbv	100
68) 2-Chlorotoluene	14.680	91	3324110	4.1537940	ppbv	100
70) 1,3,5-Trimethylbenzene	14.723	105	2982652	4.0068273	ppbv	100
71) tert-Butylbenzene	15.062	119	2882204	3.9659163	ppbv	100
72) 1,2,4-Trimethylbenzene	15.124	105	2981728	4.0717370	ppbv	100
73) sec-Butylbenzene	15.294	105	4568258	3.9761076	ppbv	100
74) 1,3-Dichlorobenzene	15.472	146	1751141	4.6715403	ppbv	100
75) 1,4-Dichlorobenzene	15.566	146	1712943m	4.8861109	ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.583	105	3019848	4.0175062	ppbv	100
77) DICYCLOPENTADIENE	15.570	66	4268712	4.0947783	ppbv	100
78) Benzyl Chloride	15.695	91	1981466	5.4026486	ppbv	100
79) n-Butylbenzene	15.873	91	3455170	4.2535698	ppbv	100
80) 1,2-Dichlorobenzene	15.968	146	1751952	4.3984550	ppbv	100
81) 1,2,4-Trichlorobenzene	17.510	180	594642	5.9436347	ppbv	100
82) Hexachloro-1,3-Butadiene	17.632	225	1117217	3.9535750	ppbv	100
83) Naphthalene	17.761	128	1554225	5.8220576	ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	272996715m	182.7994660	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

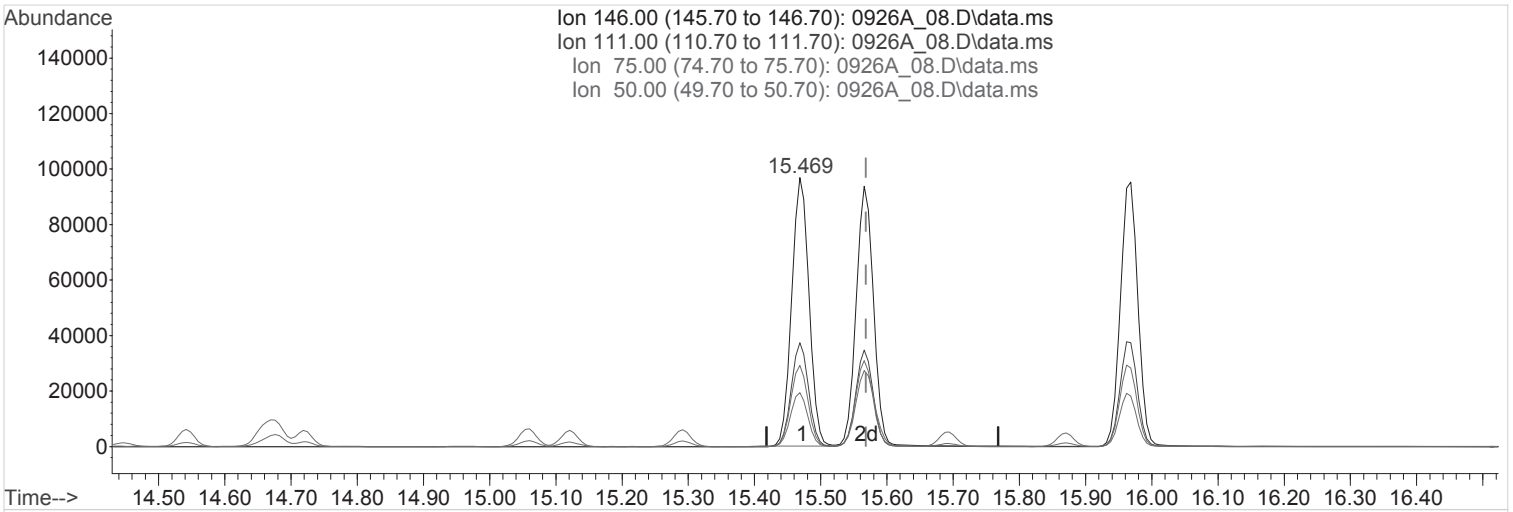
Quant Time: Sep 27 07:55:13 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:54:19 2016
Response via : Initial Calibration

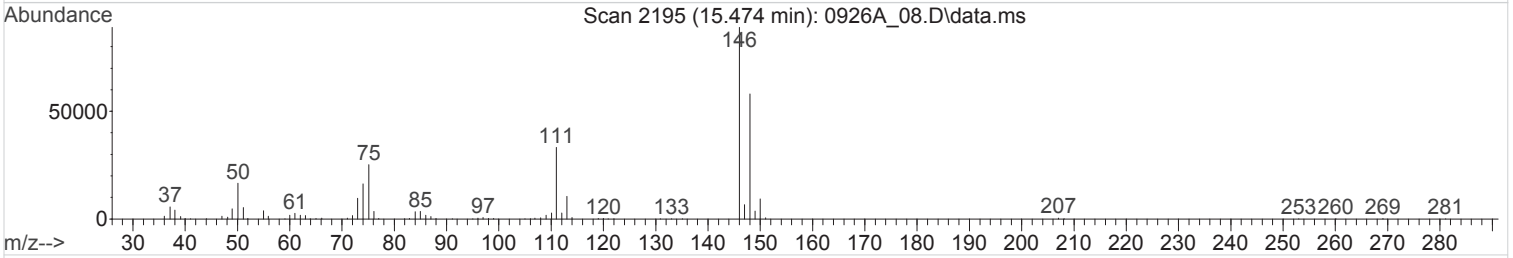


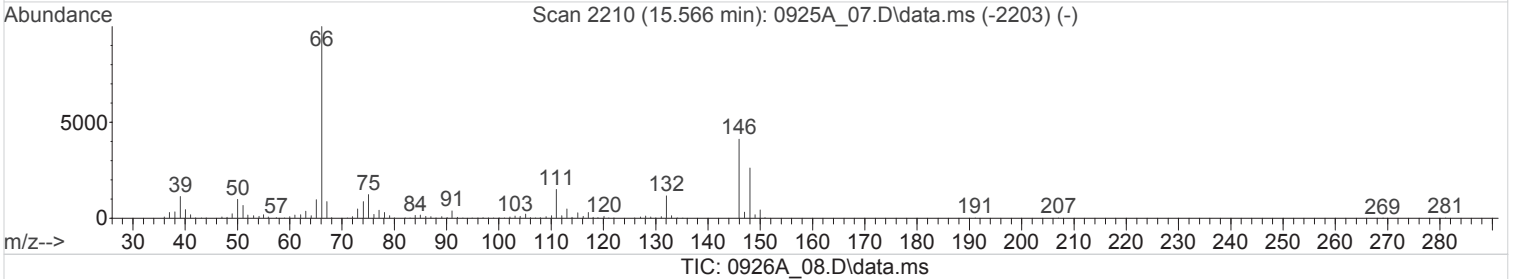
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:43:51 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Mon Sep 26 10:08:07 2016
Response via : Initial Calibration







TIC: 0926A_08.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.472min (-0.097) 0.0000000 ppbv

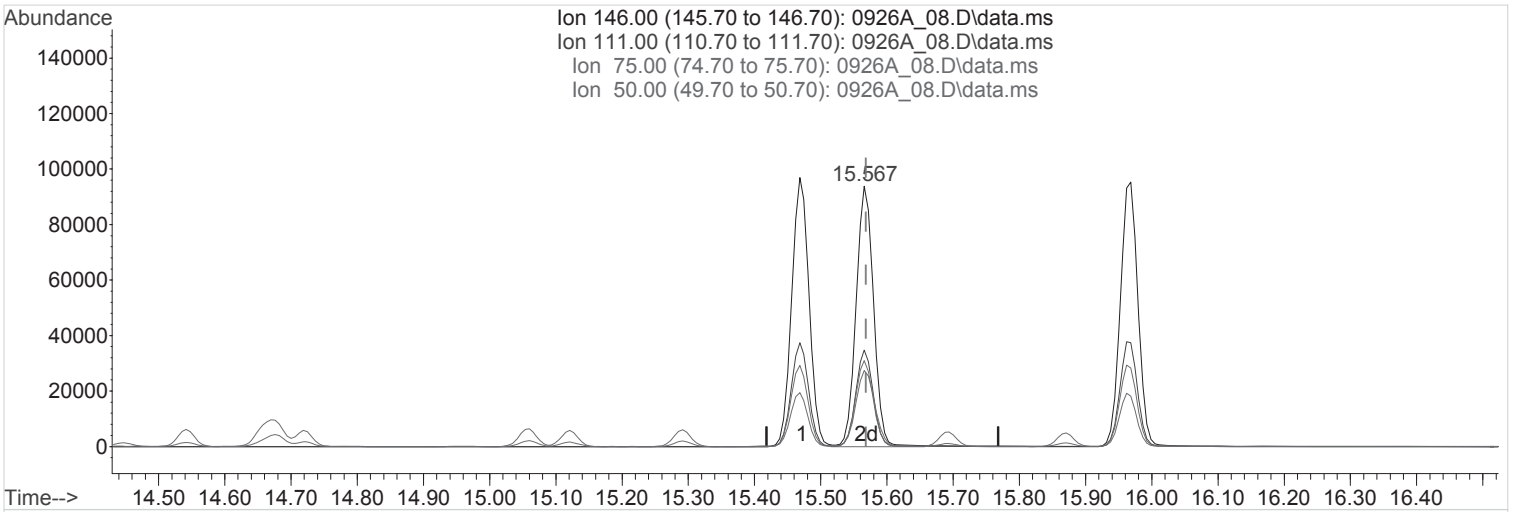
Qvalue = 96

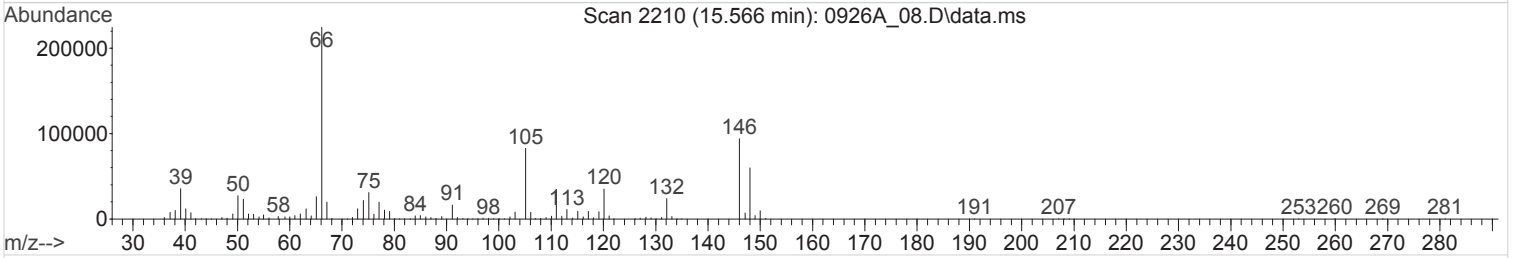
response 1758260

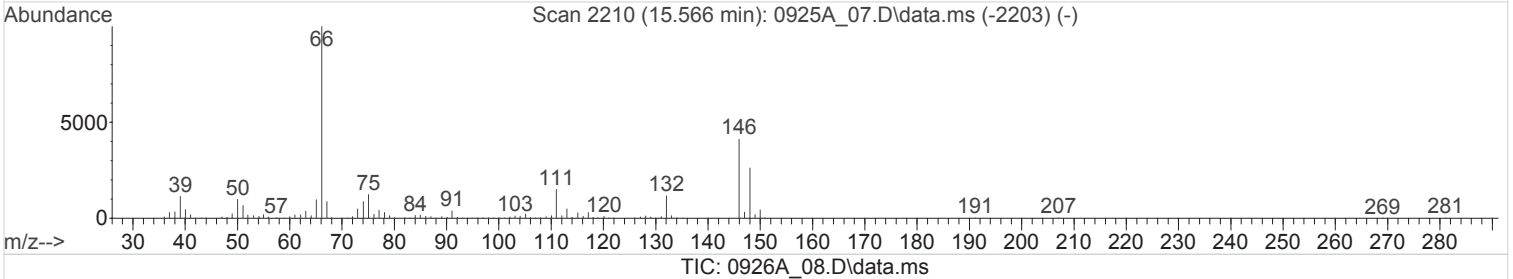
Ion	Exp%	Act%
146.00	100	100
111.00	35.70	38.01
75.00	29.90	29.78
50.00	24.10	19.81

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:43:51 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Mon Sep 26 10:08:07 2016
Response via : Initial Calibration







TIC: 0926A_08.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (-0.003) 0.0000000 ppbv m

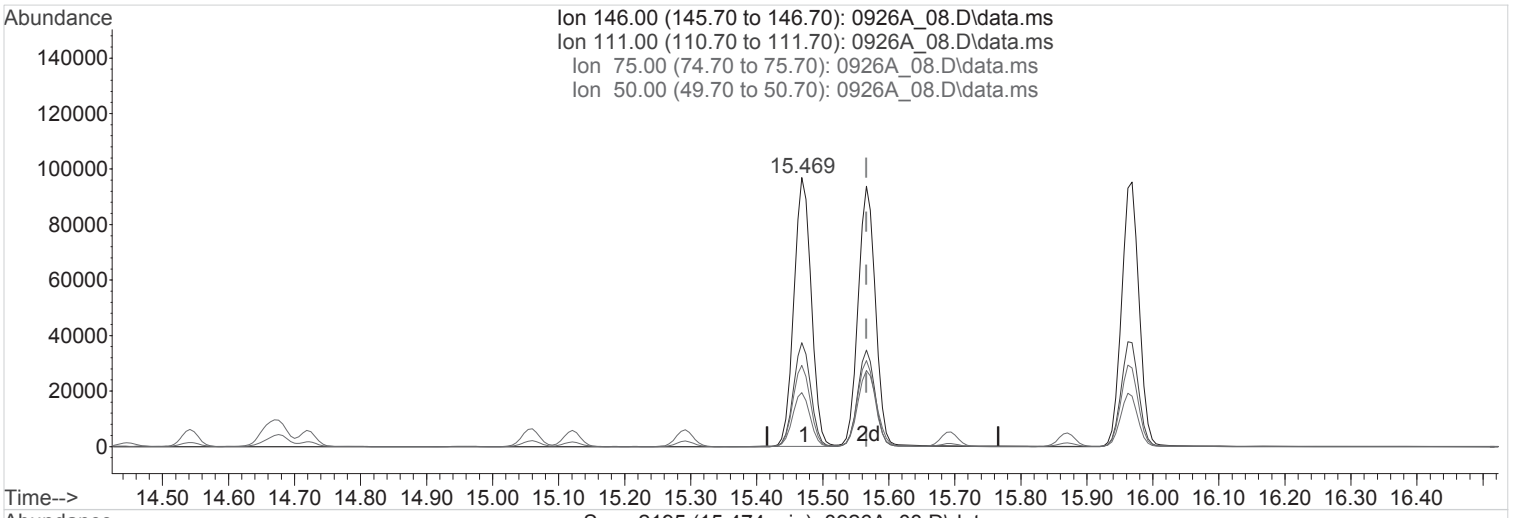
response 1715628

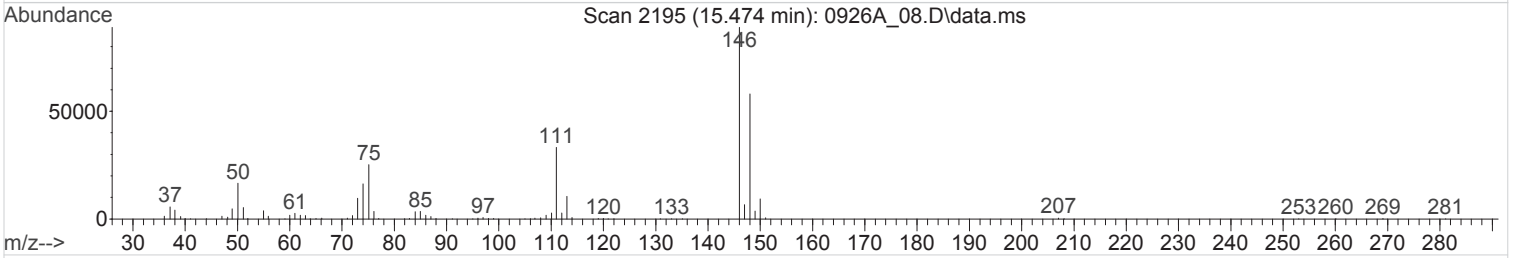
Ion	Exp%	Act%
146.00	100	100
111.00	35.70	38.96
75.00	29.90	30.52
50.00	24.10	20.30

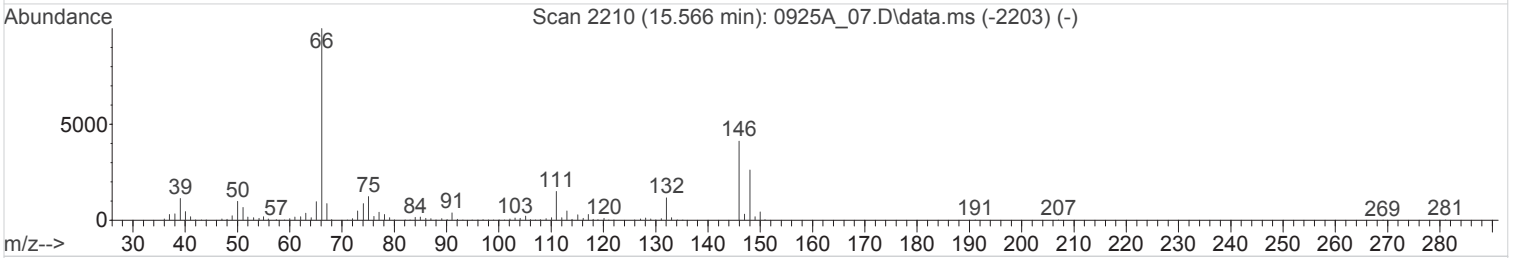
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:54:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:54:19 2016
Response via : Initial Calibration







TIC: 0926A_08.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.472min (-0.094) 5.0256346 ppbv

Qvalue = 99

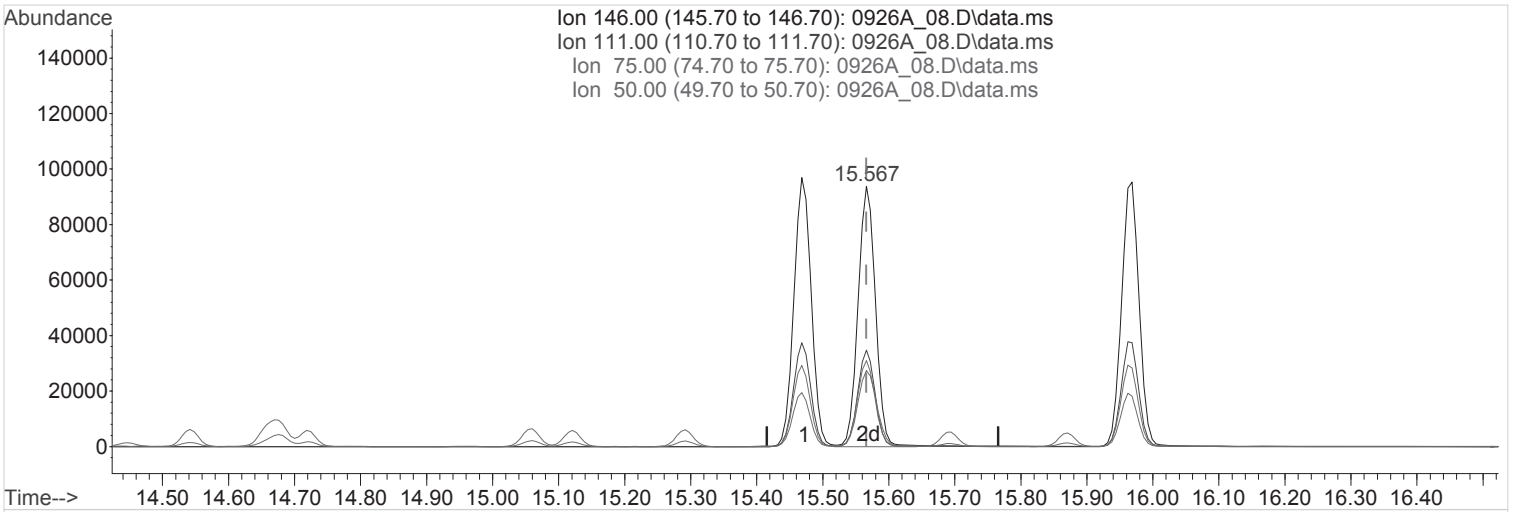
response 1761856

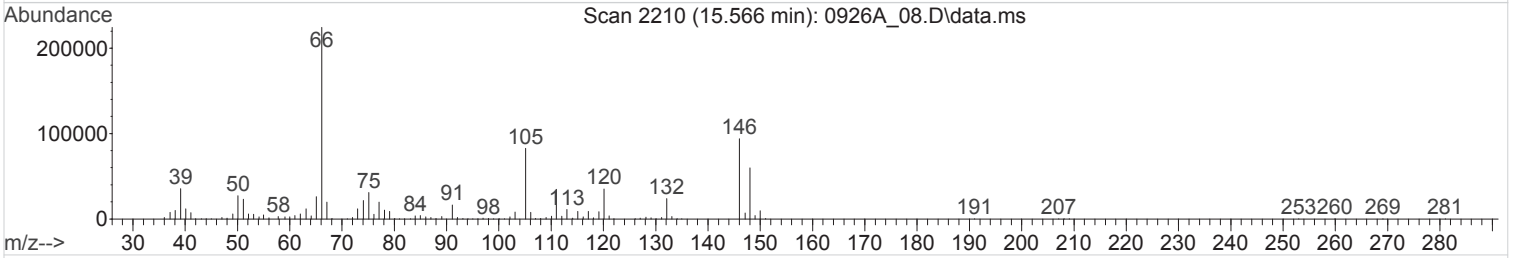
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	38.35
75.00	30.50	30.02
50.00	20.30	19.92

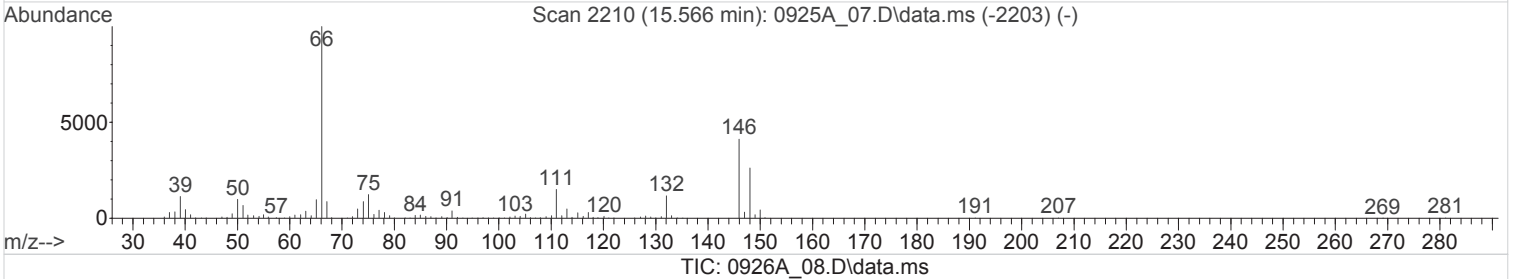
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_08.D
Acq On : 26 Sep 2016 4:52 pm
Operator : 564
Sample : MSTD AMS 3.8 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 07:54:26 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:54:19 2016
Response via : Initial Calibration







TIC: 0926A_08.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (0.000) 4.8861109 ppbv m

response 1712943

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.45
75.00	30.50	30.88
50.00	20.30	20.49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_09.D
Acq On : 26 Sep 2016 5:39 pm
Operator : 564
Sample : STD AMS 5.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:55:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.866	130	1193028	4.0000000	ppbv	0.00
37) 1,4-Difluorobenzene	9.949	114	4857228	4.0000000	ppbv	0.00
58) Chlorobenzene-d5	13.164	117	3656736	4.0000000	ppbv	0.00
System Monitoring Compounds						
69) 1,4-Bromofluorobenzene	14.332	95	2349778	4.2543359	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.36%			
Target Compounds						Qvalue
2) Propene	4.085	41	1123327	5.9953702	ppbv	100
3) 1,1-DIFLUOROETHANE	4.095	65	695786	5.7332501	ppbv	100
4) Dichlorodifluoromethane	4.149	85	2184513	5.3625389	ppbv	100
5) CHLORODIFLUOROMETHANE	4.181	67	255919	5.7786406	ppbv	100
6) 1,2-Dichlorotetrafluor...	4.382	85	2664276	5.8307311	ppbv	100
7) Chloromethane	4.484	50	1127582	5.8655155	ppbv	99
8) Vinyl Chloride	4.683	62	1209479	5.8845836	ppbv	99
9) 1,3-Butadiene	4.747	39	1036340	6.0024391	ppbv	99
10) Bromomethane	5.238	94	914646	5.7733903	ppbv	98
11) Chloroethane	5.399	64	635369	6.0276066	ppbv	99
12) Vinyl Bromide	5.674	106	904730	5.7874821	ppbv	99
13) Trichlorofluoromethane	5.757	101	2055254	5.7940091	ppbv	99
14) Ethanol	6.084	45	173514	6.6384779	ppbv	99
15) 1,1,2-Trichlorotrifluo...	6.454	101	1868148	5.6579479	ppbv	99
16) 1,1-Dichloroethene	6.478	61	1705721	5.8181297	ppbv	98
17) Acetone	6.574	43	3573532	6.0687359	ppbv	100
18) 2-Propanol	6.758	45	2146484	5.9373701	ppbv #	74
19) Carbon Disulfide	6.772	76	2795836	5.5707852	ppbv	100
20) Allyl Chloride	6.947	41	1576279	5.8870718	ppbv	100
21) Methylene Chloride	7.114	49	1235249	4.9495859	ppbv	99
22) TERT-BUTYL ALCOHOL	7.252	59	2392045	5.4393927	ppbv	99
23) Methyl Tert-Butyl Ether	7.423	73	2886582	5.4326527	ppbv	100
24) Trans-1,2-Dichloroethene	7.422	96	937931	5.3874868	ppbv	99
25) n-Hexane	7.691	57	1695408	5.5277377	ppbv	100
26) 1,1-Dichloroethane	7.938	63	1852113	5.4898953	ppbv	100
27) Vinyl Acetate	7.960	43	1896251	5.8406607	ppbv	100
28) ETHYL ACETATE	8.628	70	310077	5.9222445	ppbv	95
29) 2-Butanone (MEK)	8.599	72	507501	5.7971656	ppbv	100
30) cis-1,2-Dichloroethene	8.599	61	1831314	6.0559226	ppbv	99
31) Tetrahydrofuran	8.917	42	1407441	5.6336291	ppbv	99
32) Chloroform	8.926	83	1904757	5.5361943	ppbv	100
33) Cyclohexane	9.171	84	1425900	5.5199392	ppbv	99
34) 1,1,1-Trichloroethane	9.139	97	1796112	5.5755240	ppbv	100
35) Carbon Tetrachloride	9.306	117	1698788	5.6244859	ppbv	100
36) 2,2,4-Trimethylpentane	9.546	57	5732556	5.5739852	ppbv	99
38) Benzene	9.537	78	3308288	5.4929057	ppbv	96
39) 1,2-Dichloroethane	9.591	62	1349106	5.5623919	ppbv	100
40) Heptane	9.737	43	2292228	5.5914933	ppbv	100
41) Trichloroethene	10.241	95	1282092	5.4665038	ppbv	99
42) TERT-AMYL ETHYL ETHER	10.444	73	976113	4.9730958	ppbv	94
43) METHYL CYCLOHEXANE	10.425	83	1838938	5.5262974	ppbv	99
44) 1,2-Dichloropropane	10.509	63	1237864	5.5645064	ppbv	99
45) Methyl Methacrylate	10.563	69	1162672	5.2929700	ppbv	98
46) 1,4-Dioxane	10.640	88	585541	5.7011629	ppbv #	99
47) Bromodichloromethane	10.787	83	2086608	5.7482473	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_09.D
Acq On : 26 Sep 2016 5:39 pm
Operator : 564
Sample : STD AMS 5.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:55:21 2016
Response via : Initial Calibration

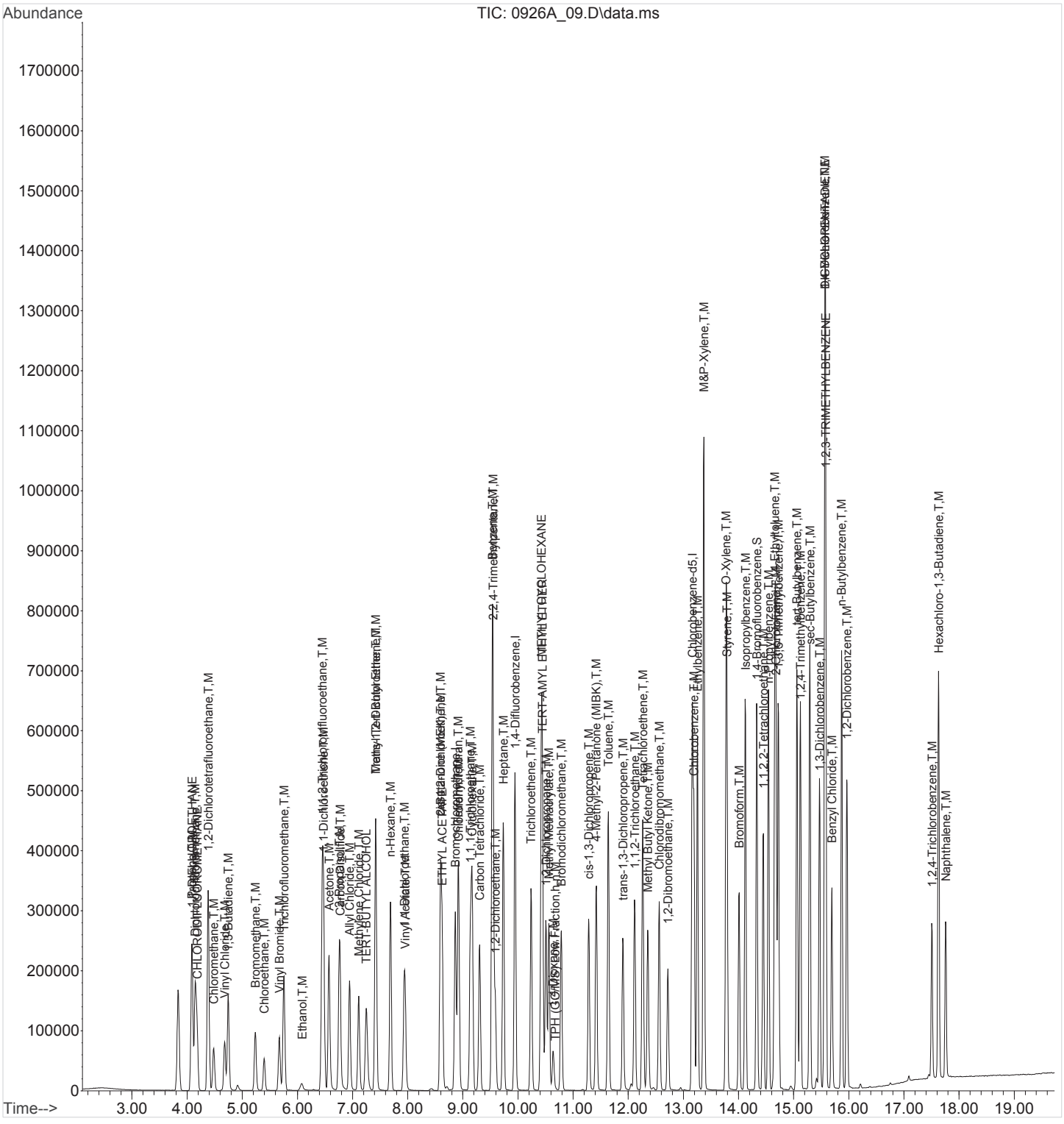
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.285	75	1895280	5.7068887	ppbv	99
49) 4-Methyl-2-Pentanone (...	11.421	43	2959419	5.4645285	ppbv	100
50) Toluene	11.641	91	4033001	5.6117225	ppbv	100
51) trans-1,3-Dichloropropene	11.906	75	1551037	5.8499778	ppbv	99
52) 1,1,2-Trichloroethane	12.119	97	1230255	5.6675468	ppbv	100
53) Tetrachloroethene	12.266	166	1692918	5.5248323	ppbv	100
54) Methyl Butyl Ketone	12.357	43	2332492	5.9327609	ppbv	99
55) Chlorodibromomethane	12.564	129	1925921	5.8986711	ppbv	99
56) 1,2-Dibromoethane	12.721	107	1671252	5.8413579	ppbv	99
57) Chlorobenzene	13.194	112	2585913	5.5849374	ppbv	99
59) Ethylbenzene	13.257	91	4612901	5.4463277	ppbv	100
60) M&P-Xylene	13.372	91	6856606	10.5558129	ppbv	100
61) O-Xylene	13.776	91	3545671	5.4129013	ppbv	99
62) Styrene	13.792	104	2645406	5.8738732	ppbv	99
63) Bromoform	14.012	173	1752743	5.9813197	ppbv	100
64) Isopropylbenzene	14.126	105	4887436	5.3595488	ppbv	100
65) 1,1,2,2-Tetrachloroethane	14.450	83	2577543	5.5029606	ppbv	100
66) n-Propylbenzene	14.545	91	5934469	5.5681360	ppbv	100
67) 4-Ethyltoluene	14.660	105	4838638	5.5823784	ppbv	99
68) 2-Chlorotoluene	14.680	91	4419323	5.4795164	ppbv	100
70) 1,3,5-Trimethylbenzene	14.724	105	3963015	5.2825147	ppbv	100
71) tert-Butylbenzene	15.062	119	3812043	5.2046752	ppbv	97
72) 1,2,4-Trimethylbenzene	15.124	105	3970838	5.3803536	ppbv	99
73) sec-Butylbenzene	15.295	105	6048403	5.2235433	ppbv	100
74) 1,3-Dichlorobenzene	15.472	146	2359882	6.2466366	ppbv	99
75) 1,4-Dichlorobenzene	15.566	146	2331075m	6.5999638	ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.582	105	4022733	5.3101848	ppbv	100
77) DICYCLOPENTADIENE	15.569	66	5689822	5.4156593	ppbv	100
78) Benzyl Chloride	15.694	91	2777546	7.5144711	ppbv	99
79) n-Butylbenzene	15.873	91	4632306	5.6584627	ppbv	100
80) 1,2-Dichlorobenzene	15.968	146	2332620	5.8108401	ppbv	100
81) 1,2,4-Trichlorobenzene	17.510	180	906390	8.9893566	ppbv	99
82) Hexachloro-1,3-Butadiene	17.631	225	1471874	5.1682094	ppbv	99
83) Naphthalene	17.760	128	2283359	8.4869927	ppbv	100
84) TPH (GC/MS) Low Fraction	10.675	TIC	365872860m	243.0892414	ppbv	

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

Quantitation Report (QT Reviewed)

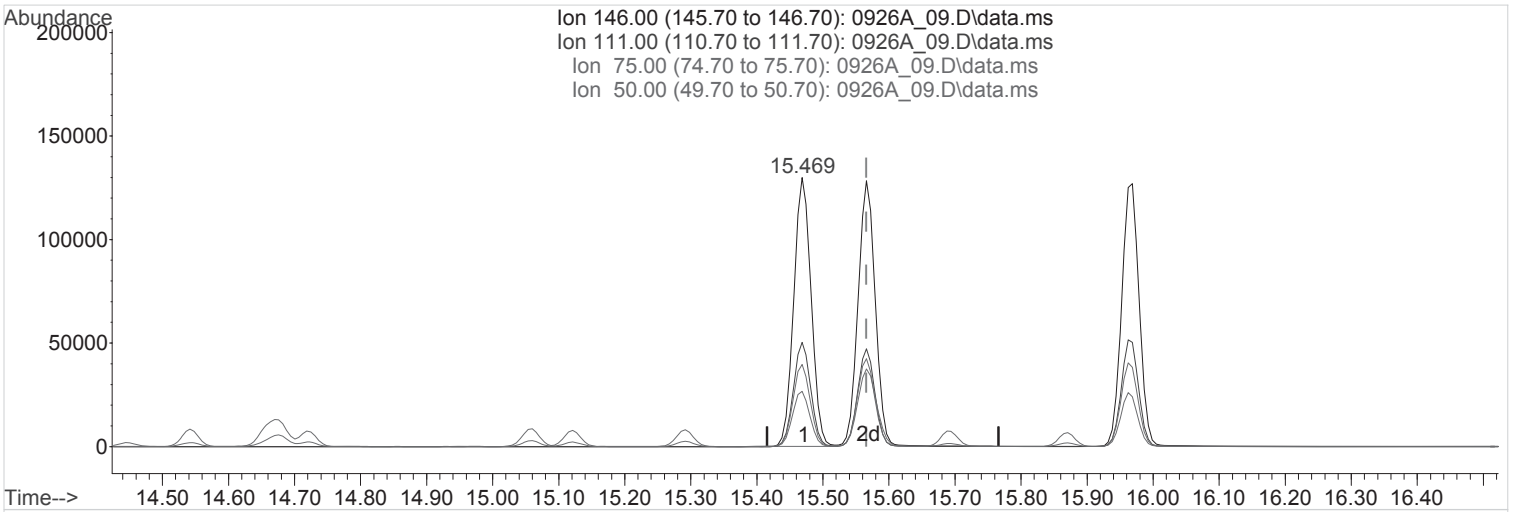
Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_09.D
Acq On : 26 Sep 2016 5:39 pm
Operator : 564
Sample : STD AMS 5.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

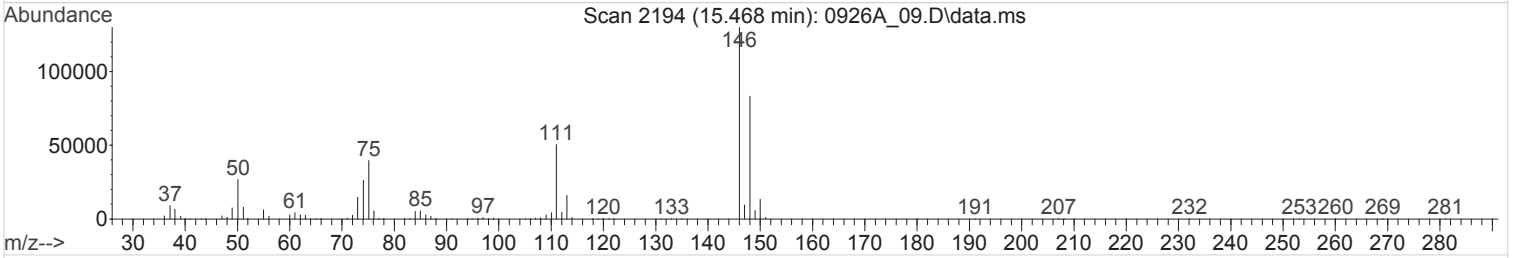
Quant Time: Sep 27 08:19:00 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:55:21 2016
Response via : Initial Calibration

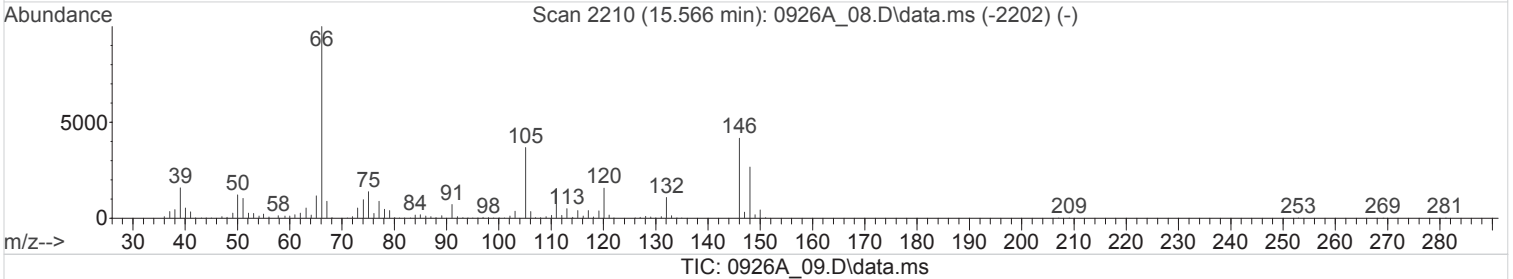


Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_09.D
Acq On : 26 Sep 2016 5:39 pm
Operator : 564
Sample : STD AMS 5.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:18:15 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:55:21 2016
Response via : Initial Calibration







TIC: 0926A_09.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.472min (-0.094) 6.7204112 ppbv

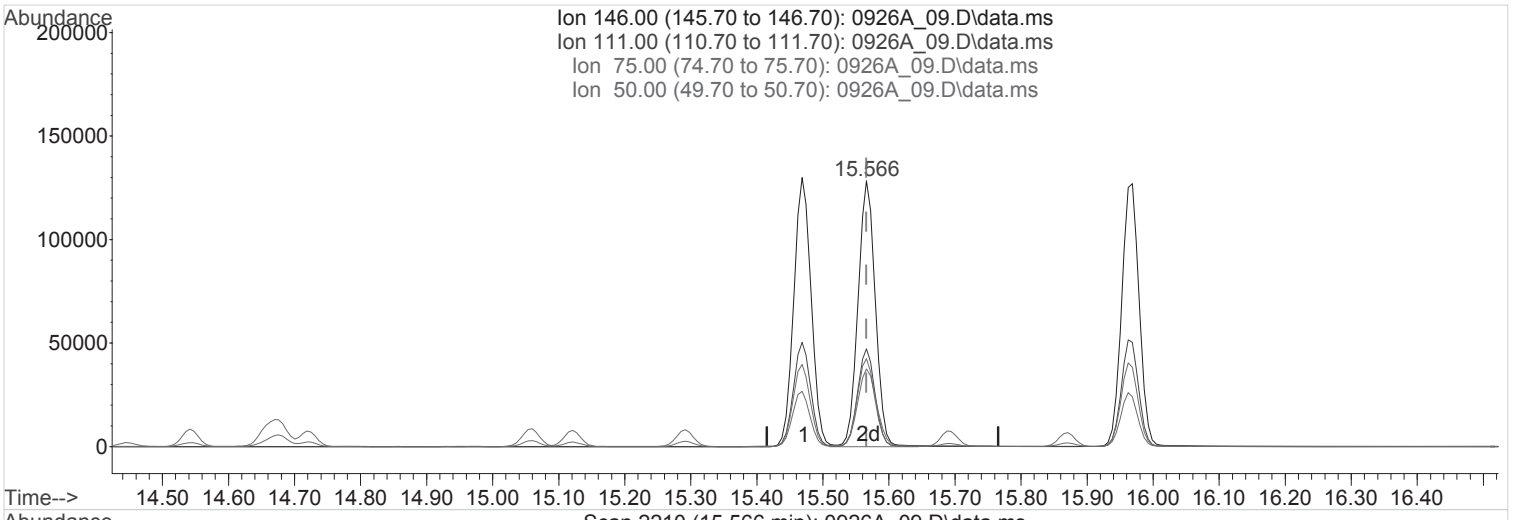
Qvalue = 100

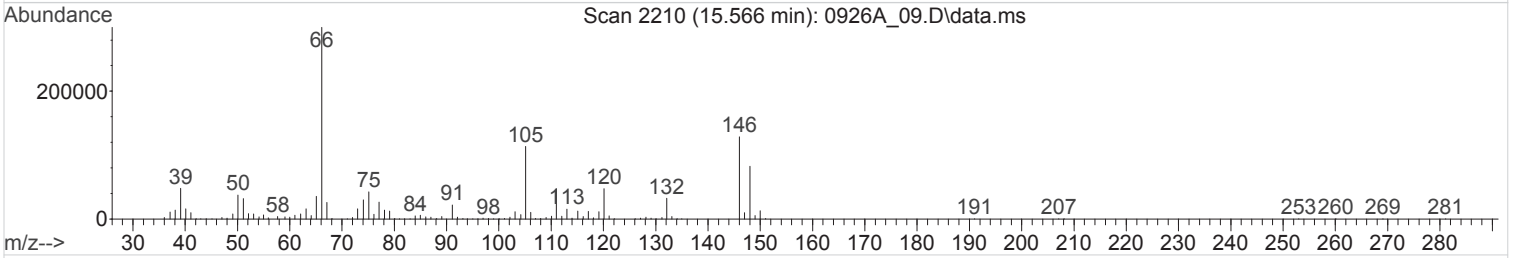
response 2373616

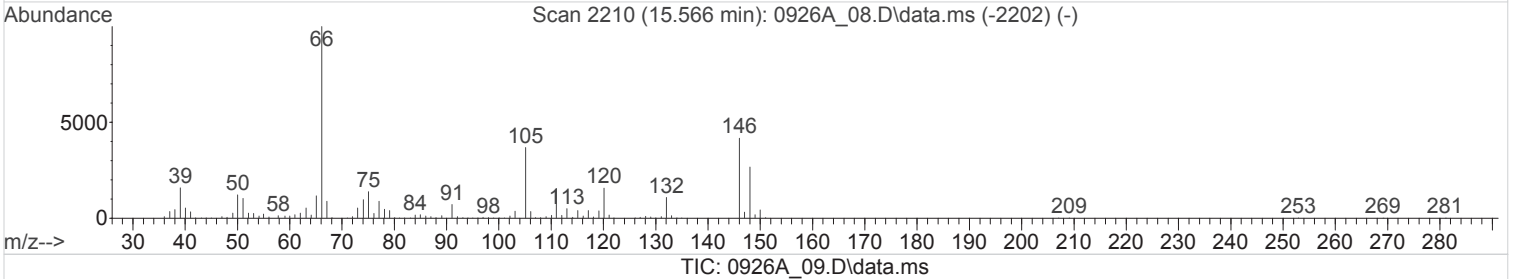
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	38.50
75.00	30.50	30.40
50.00	20.30	20.40

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_09.D
Acq On : 26 Sep 2016 5:39 pm
Operator : 564
Sample : STD AMS 5.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:18:15 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 07:55:21 2016
Response via : Initial Calibration







TIC: 0926A_09.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (+0.000) 6.5999638 ppbv m

response 2331075

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.20
75.00	30.50	30.95
50.00	20.30	20.77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:20:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.869	130	1197597	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.951	114	4863987	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.166	117	3641906	4.0000000	ppbv		0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.334	95	2355582	4.2436642	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.09%				
Target Compounds							Qvalue
2) Propene	4.089	41	2330737	12.0493734	ppbv		99
3) 1,1-DIFLUOROETHANE	4.098	65	1442529	11.5980631	ppbv		99
4) Dichlorodifluoromethane	4.153	85	3638679	8.8069212	ppbv		100
5) CHLORODIFLUOROMETHANE	4.185	67	521251	11.4697404	ppbv		98
6) 1,2-Dichlorotetrafluor...	4.385	85	5407743	11.5162784	ppbv		99
7) Chloromethane	4.487	50	2309602	11.6795478	ppbv		100
8) Vinyl Chloride	4.685	62	2485590	11.7502512	ppbv		100
9) 1,3-Butadiene	4.749	39	2123783	11.9127481	ppbv		98
10) Bromomethane	5.241	94	1867374	11.4883344	ppbv		99
11) Chloroethane	5.402	64	1312793	12.0527979	ppbv		99
12) Vinyl Bromide	5.676	106	1848655	11.5213506	ppbv		98
13) Trichlorofluoromethane	5.760	101	4219061	11.5858304	ppbv		100
14) Ethanol	6.078	45	382494	13.9260894	ppbv		97
15) 1,1,2-Trichlorotrifluo...	6.456	101	3872188	11.4671556	ppbv		99
16) 1,1-Dichloroethene	6.481	61	3561446	11.8251581	ppbv		98
17) Acetone	6.570	43	7490476	12.2966558	ppbv		99
18) 2-Propanol	6.755	45	4530387	12.1580354	ppbv	#	74
19) Carbon Disulfide	6.774	76	5760841	11.2513641	ppbv		100
20) Allyl Chloride	6.950	41	3292348	11.9465343	ppbv		99
21) Methylene Chloride	7.116	49	2532923	10.1251750	ppbv		99
22) TERT-BUTYL ALCOHOL	7.248	59	4961011	11.0987207	ppbv		99
23) Methyl Tert-Butyl Ether	7.419	73	5989258	11.0918850	ppbv		100
24) Trans-1,2-Dichloroethene	7.424	96	1935324	10.9528505	ppbv		98
25) n-Hexane	7.692	57	3484599	11.1497834	ppbv		100
26) 1,1-Dichloroethane	7.940	63	3801579	11.0704141	ppbv		99
27) Vinyl Acetate	7.960	43	4025172	12.0609791	ppbv		100
28) ETHYL ACETATE	8.628	70	645196	11.9606086	ppbv		95
29) 2-Butanone (MEK)	8.598	72	1059518	11.7881753	ppbv		99
30) cis-1,2-Dichloroethene	8.601	61	3804186	12.1649543	ppbv		99
31) Tetrahydrofuran	8.914	42	2961338	11.5982870	ppbv		100
32) Chloroform	8.928	83	3913275	11.1596143	ppbv		100
33) Cyclohexane	9.173	84	2945197	11.1916809	ppbv		99
34) 1,1,1-Trichloroethane	9.141	97	3680655	11.1978350	ppbv		100
35) Carbon Tetrachloride	9.308	117	3497021	11.3318658	ppbv		100
36) 2,2,4-Trimethylpentane	9.548	57	11795879	11.2414734	ppbv		99
38) Benzene	9.539	78	6770768	11.0703004	ppbv		96
39) 1,2-Dichloroethane	9.593	62	2782807	11.2764333	ppbv		99
40) Heptane	9.738	43	4774220	11.4364270	ppbv		99
41) Trichloroethene	10.243	95	2618955	11.0043472	ppbv		99
42) TERT-AMYL ETHYL ETHER	10.444	73	2030206	10.3370561	ppbv		96
43) METHYL CYCLOHEXANE	10.427	83	3762358	11.1235035	ppbv		98
44) 1,2-Dichloropropane	10.512	63	2520138	11.1333368	ppbv		99
45) Methyl Methacrylate	10.564	69	2426727	10.9405495	ppbv		99
46) 1,4-Dioxane	10.638	88	1181930	11.2662582	ppbv	#	97
47) Bromodichloromethane	10.788	83	4319864	11.6352041	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:20:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration

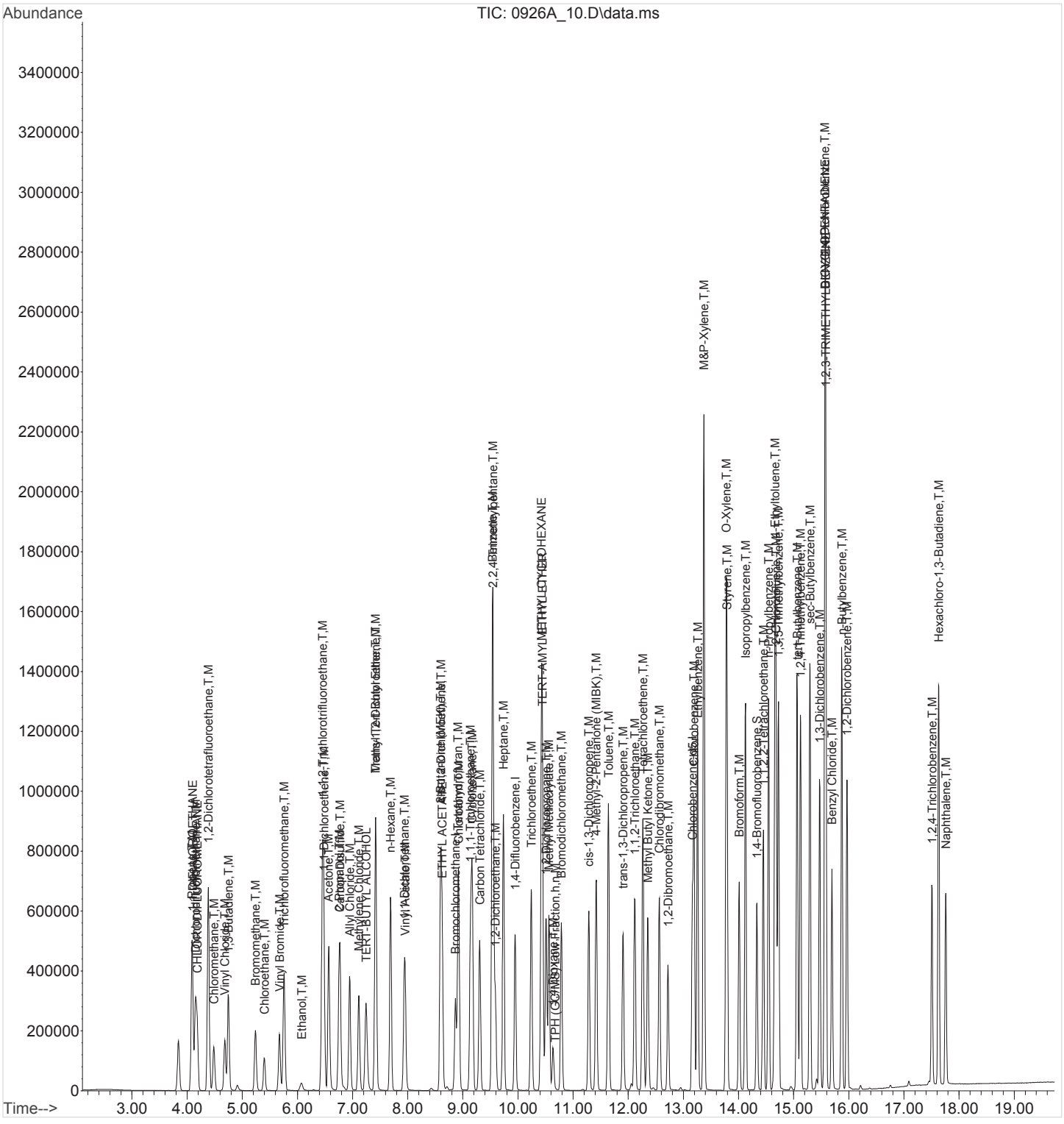
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48)	cis-1,3-Dichloropropene	11.287	75	3955689	11.6589734	ppbv	99
49)	4-Methyl-2-Pentanone (...	11.420	43	6153245	11.1974836	ppbv	100
50)	Toluene	11.644	91	8246062	11.2612261	ppbv	99
51)	trans-1,3-Dichloropropene	11.908	75	3250181	11.9512930	ppbv	98
52)	1,1,2-Trichloroethane	12.121	97	2516702	11.3611582	ppbv	99
53)	Tetrachloroethene	12.268	166	3432929	11.0225012	ppbv	99
54)	Methyl Butyl Ketone	12.357	43	5080173	12.5686518	ppbv	100
55)	Chlorodibromomethane	12.567	129	4007580	11.9504379	ppbv	100
56)	1,2-Dibromoethane	12.723	107	3449459	11.7571622	ppbv	98
57)	Chlorobenzene	13.195	112	5239203	11.1139281	ppbv	99
59)	Ethylbenzene	13.259	91	9356384	10.9521502	ppbv	100
60)	M&P-Xylene	13.374	91	13966446	21.4189685	ppbv	100
61)	O-Xylene	13.778	91	7160006	10.8471717	ppbv	99
62)	Styrene	13.794	104	5428291	11.8072845	ppbv	98
63)	Bromoform	14.014	173	3610854	12.0349563	ppbv	100
64)	Isopropylbenzene	14.128	105	9701582	10.5734309	ppbv	100
65)	1,1,2,2-Tetrachloroethane	14.452	83	5110966	10.8009473	ppbv	99
66)	n-Propylbenzene	14.547	91	11807807	10.9463434	ppbv	100
67)	4-Ethyltoluene	14.663	105	9682375	11.0325536	ppbv	99
68)	2-Chlorotoluene	14.682	91	8878129m	10.9034316	ppbv	
70)	1,3,5-Trimethylbenzene	14.726	105	7860878	10.4366107	ppbv	100
71)	tert-Butylbenzene	15.064	119	7471040	10.1823861	ppbv	96
72)	1,2,4-Trimethylbenzene	15.126	105	7821192	10.5262191	ppbv	100
73)	sec-Butylbenzene	15.297	105	11849271	10.2097711	ppbv	99
74)	1,3-Dichlorobenzene	15.474	146	4732185	12.1445929	ppbv	99
75)	1,4-Dichlorobenzene	15.566	146	4725543m	12.8466345	ppbv	
76)	1,2,3-TRIMETHYLBENZENE	15.585	105	7898025	10.3762365	ppbv	100
77)	DICYCLOPENTADIENE	15.572	66	11202430	10.5804111	ppbv	100
78)	Benzyl Chloride	15.697	91	5916489	14.9946174	ppbv	99
79)	n-Butylbenzene	15.875	91	9319958	11.2198091	ppbv	100
80)	1,2-Dichlorobenzene	15.970	146	4588730	11.2177539	ppbv	100
81)	1,2,4-Trichlorobenzene	17.511	180	2326272	20.7950967	ppbv	99
82)	Hexachloro-1,3-Butadiene	17.633	225	2967017	10.4105167	ppbv	98
83)	Naphthalene	17.761	128	5566819	18.8932069	ppbv	99
84)	TPH (GC/MS) Low Fraction	10.675	TIC	746885992m	495.8203849	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

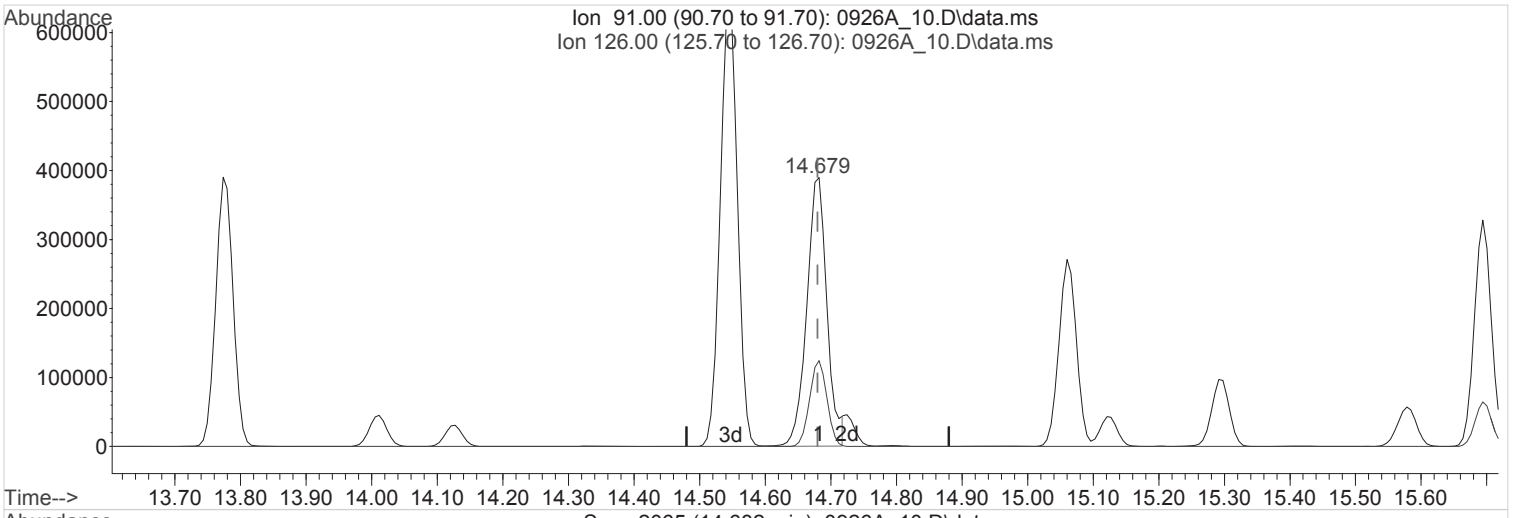
Quant Time: Sep 27 08:20:10 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration

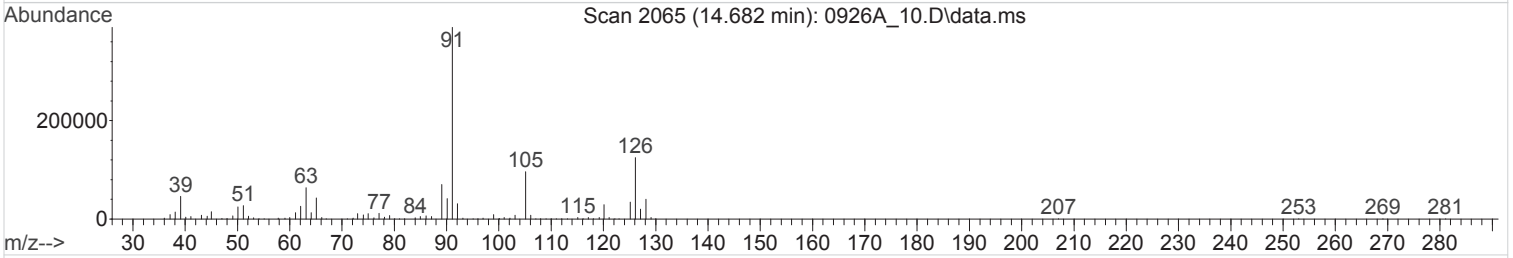


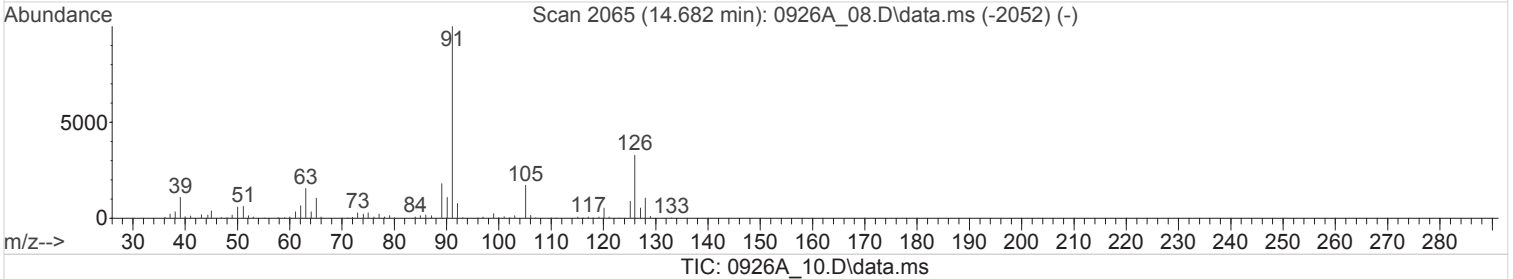
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:11 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration







TIC: 0926A_10.D\data.ms

(68) 2-Chlorotoluene (T,M)

14.682min (+0.002) 10.0414587 ppbv

Qvalue = 96

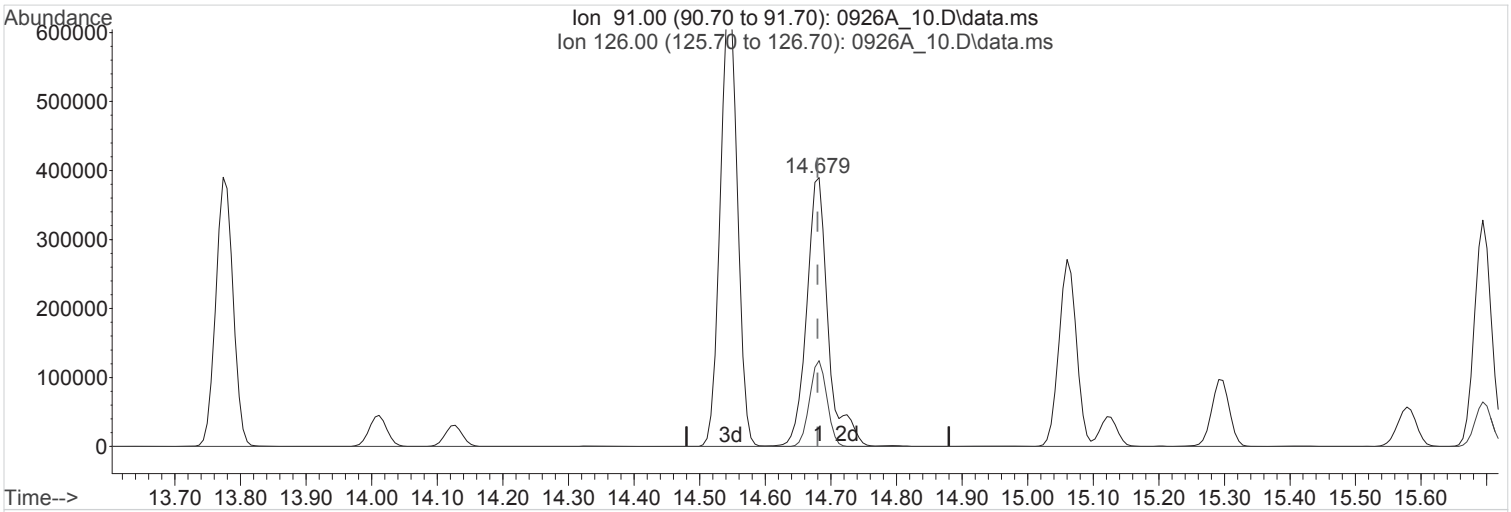
response 8176267

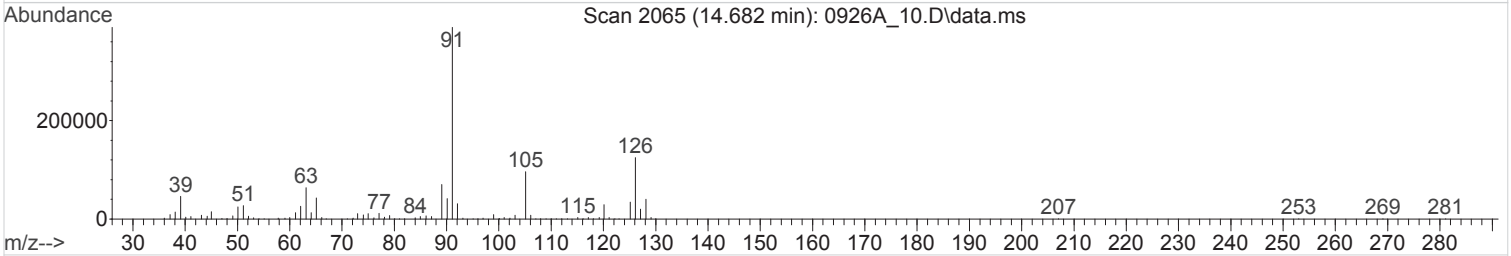
Ion	Exp%	Act%
91.00	100	100
126.00	25.90	27.91
0.00	0.00	0.00
0.00	0.00	0.00

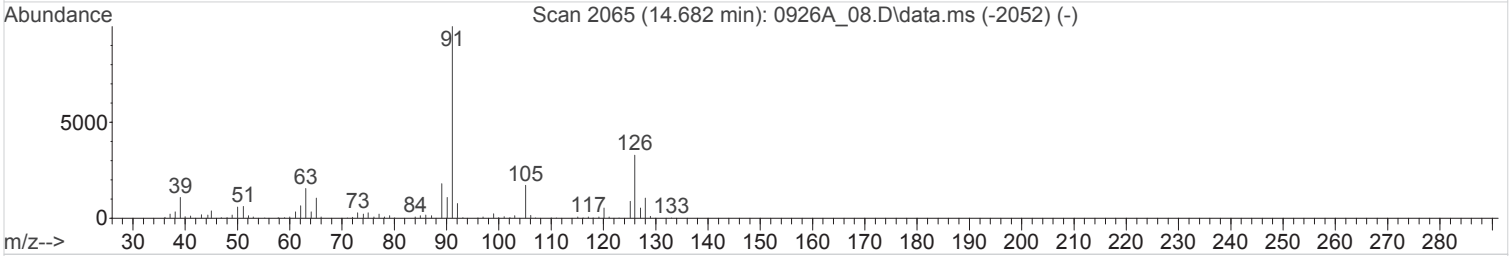
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:11 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration







TIC: 0926A_10.D\data.ms

(68) 2-Chlorotoluene (T,M)

14.682min (+0.002) 10.9034316 ppbv m

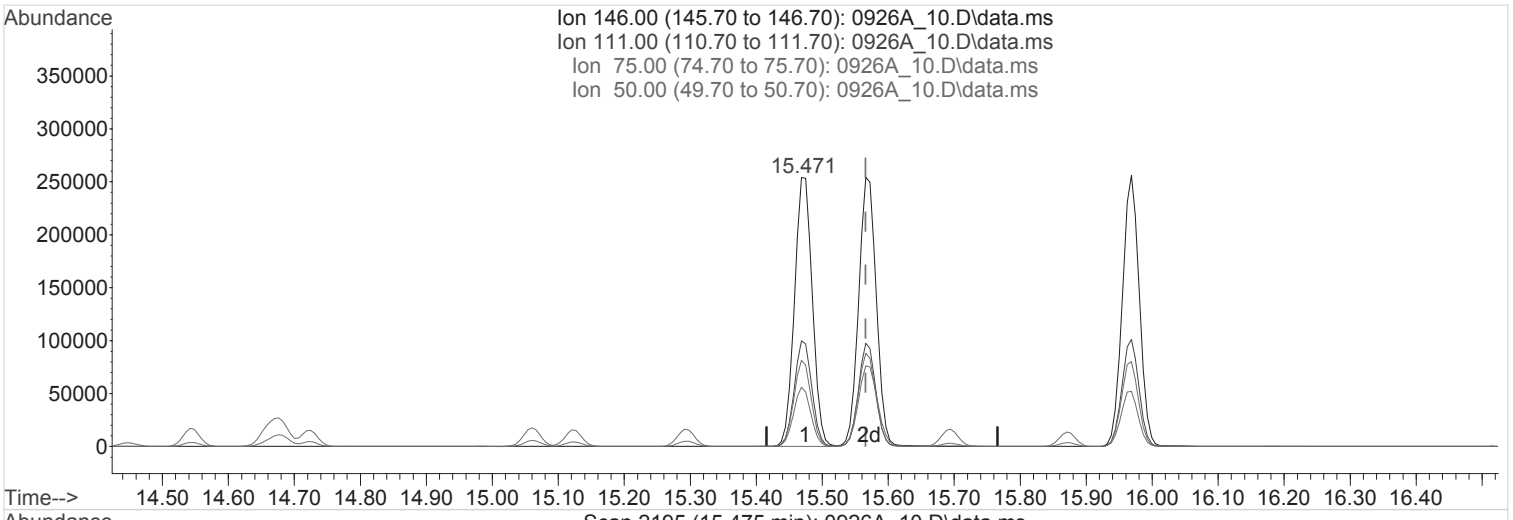
response 8878129

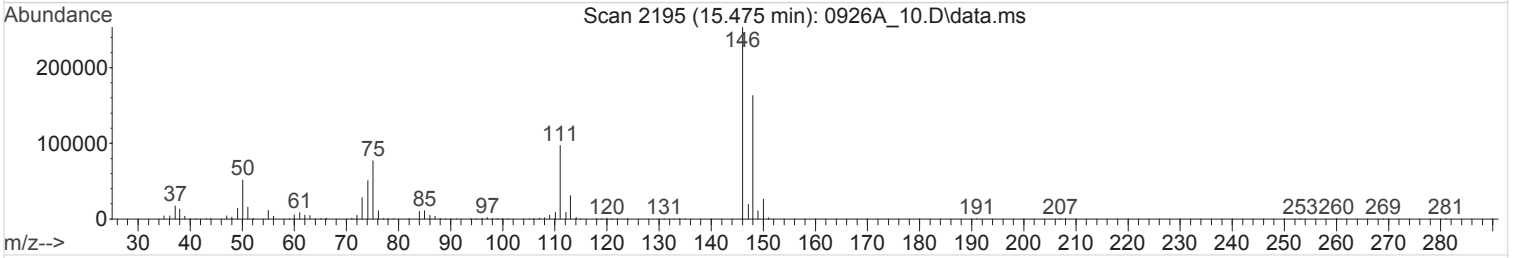
Ion	Exp%	Act%
91.00	100	100
126.00	25.90	25.70
0.00	0.00	0.00
0.00	0.00	0.00

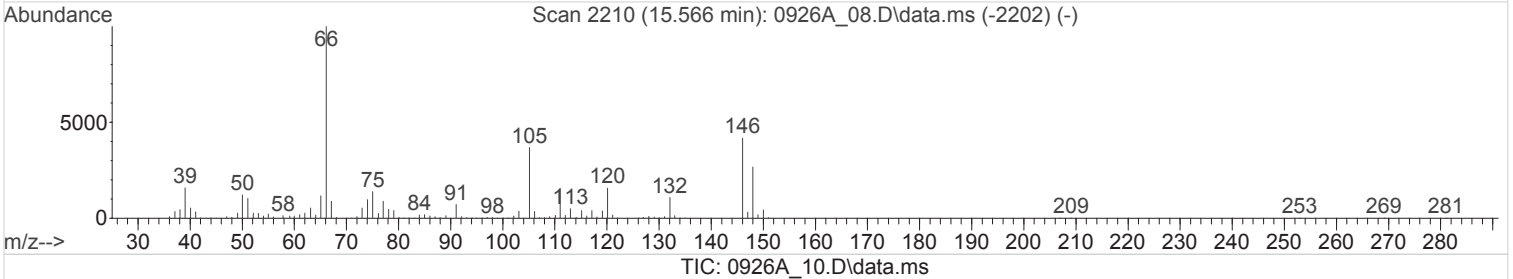
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:11 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration







TIC: 0926A_10.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.474min (-0.092) 12.9261784 ppbv

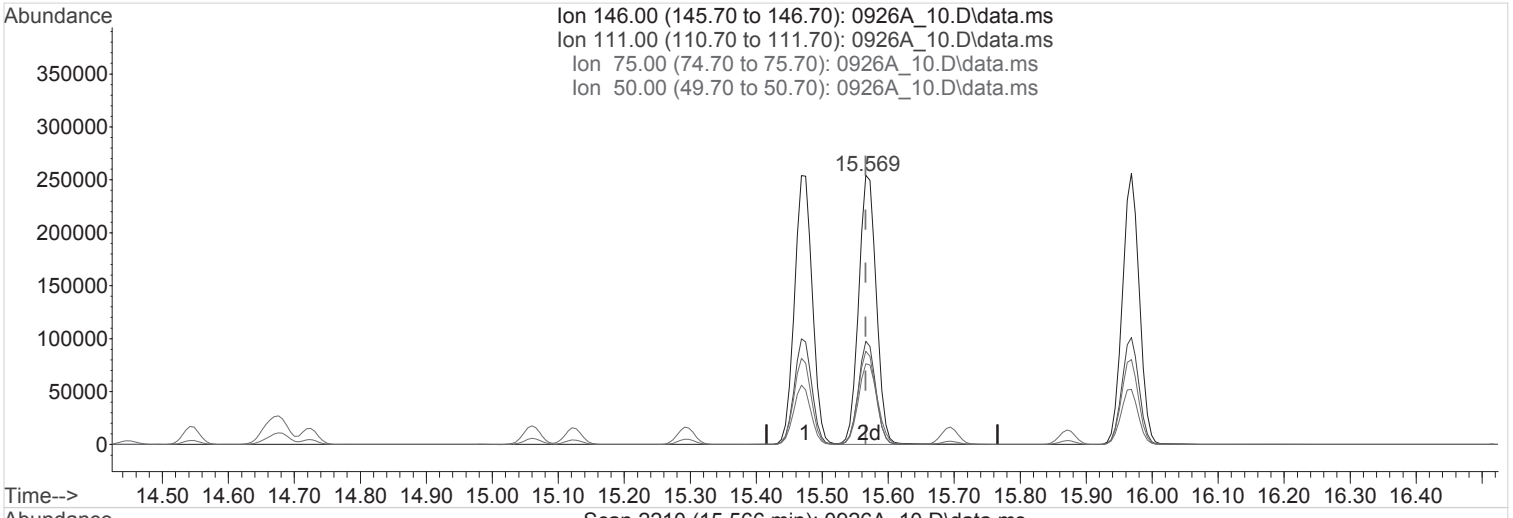
Qvalue = 99

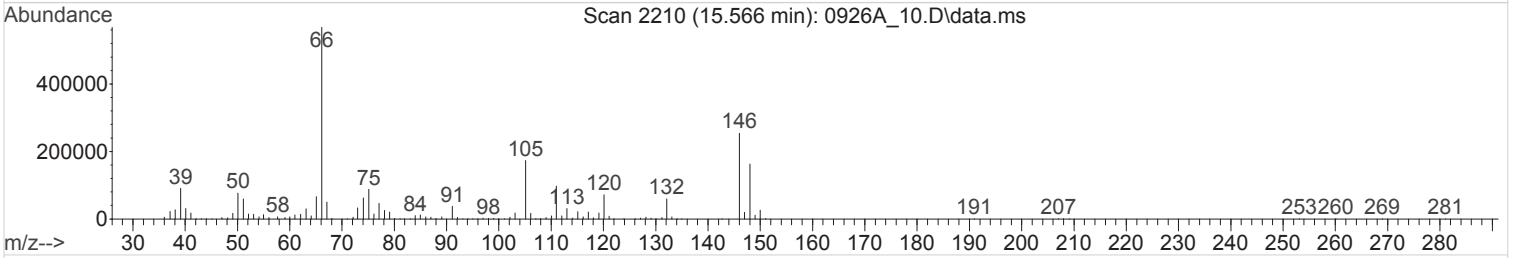
response 4754803

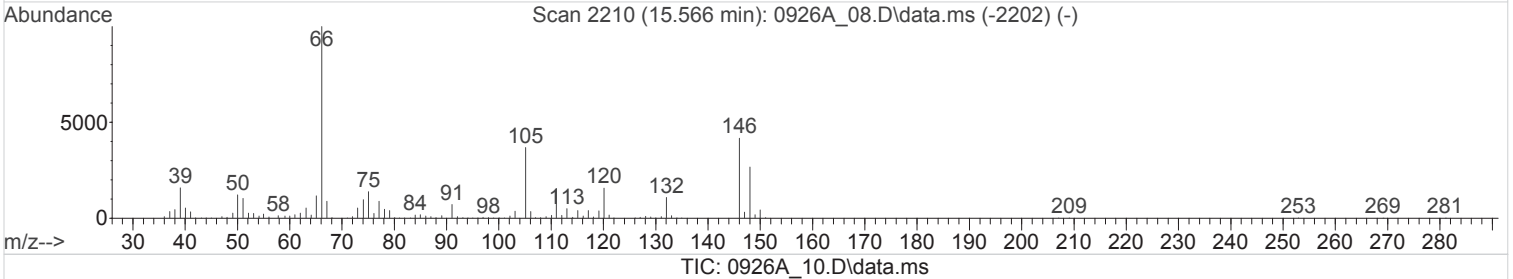
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	38.65
75.00	30.50	31.16
50.00	20.30	21.16

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_10.D
Acq On : 26 Sep 2016 6:30 pm
Operator : 564
Sample : STD AMS 10.0 ppbv BV091816K1374
Misc : BV032517K1389
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:19:11 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:19:06 2016
Response via : Initial Calibration







TIC: 0926A_10.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.566min (+0.000) 12.8466345 ppbv m

response 4725543

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	38.89
75.00	30.50	31.35
50.00	20.30	21.29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_11.D
Acq On : 26 Sep 2016 7:16 pm
Operator : 564
Sample : STD AMS 20.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:21:15 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:20:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.871	130	1161910	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.954	114	4671722	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.168	117	3445826	4.0000000	ppbv	#	0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.336	95	2218136	4.1915220	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 104.79%				
Target Compounds							Qvalue
2) Propene	4.086	41	4500750	23.3834803	ppbv		99
3) 1,1-DIFLUOROETHANE	4.097	65	2813172	22.8562823	ppbv		99
4) Dichlorodifluoromethane	4.150	85	7909094	20.0295413	ppbv		100
5) CHLORODIFLUOROMETHANE	4.182	67	1003368	22.3459752	ppbv		97
6) 1,2-Dichlorotetrafluor...	4.385	85	10554521	22.7362365	ppbv		99
7) Chloromethane	4.485	50	4481964	22.8808543	ppbv		100
8) Vinyl Chloride	4.684	62	4825411	23.0086500	ppbv		100
9) 1,3-Butadiene	4.749	39	4119441	23.2603795	ppbv		99
10) Bromomethane	5.241	94	3597270	22.3939963	ppbv		99
11) Chloroethane	5.403	64	2540532	23.4396625	ppbv		99
12) Vinyl Bromide	5.677	106	3581888	22.5796051	ppbv		98
13) Trichlorofluoromethane	5.761	101	8135048	22.5779788	ppbv		100
14) Ethanol	6.080	45	920633	32.9323340	ppbv		99
15) 1,1,2-Trichlorotrifluo...	6.458	101	7602607	22.7880720	ppbv		98
16) 1,1-Dichloroethene	6.483	61	7066070	23.6428567	ppbv		98
17) Acetone	6.571	43	10866308	17.8733394	ppbv		100
18) 2-Propanol	6.763	45	10364414	27.9158658	ppbv	#	74
19) Carbon Disulfide	6.776	76	11274032	22.3458139	ppbv		98
20) Allyl Chloride	6.952	41	6580454	24.0264549	ppbv		98
21) Methylene Chloride	7.117	49	4996101	20.5527984	ppbv		99
22) TERT-BUTYL ALCOHOL	7.253	59	9418767	21.4245207	ppbv		99
23) Methyl Tert-Butyl Ether	7.419	73	11552582	21.7551618	ppbv		100
24) Trans-1,2-Dichloroethene	7.426	96	3751121	21.6237313	ppbv		98
25) n-Hexane	7.695	57	6852525	22.2794866	ppbv		99
26) 1,1-Dichloroethane	7.943	63	7448505	22.0614909	ppbv		100
27) Vinyl Acetate	7.962	43	8231141	24.7827657	ppbv		99
28) ETHYL ACETATE	8.630	70	1227147	22.8866088	ppbv		98
29) 2-Butanone (MEK)	8.601	72	2061015	23.1183624	ppbv		99
30) cis-1,2-Dichloroethene	8.603	61	7352134	23.5941232	ppbv		99
31) Tetrahydrofuran	8.915	42	5888319	23.3047510	ppbv		99
32) Chloroform	8.932	83	7535838	21.8337677	ppbv		99
33) Cyclohexane	9.176	84	5680238	21.9211979	ppbv		97
34) 1,1,1-Trichloroethane	9.144	97	7158098	22.1151761	ppbv		100
35) Carbon Tetrachloride	9.311	117	6722252	22.0843928	ppbv		99
36) 2,2,4-Trimethylpentane	9.551	57	22834051	22.0864745	ppbv		99
38) Benzene	9.542	78	13120167	22.0396419	ppbv		99
39) 1,2-Dichloroethane	9.596	62	5385695	22.3651200	ppbv		99
40) Heptane	9.742	43	9278307	22.7323019	ppbv		98
41) Trichloroethene	10.246	95	5095457	22.0148874	ppbv		97
42) TERT-AMYL ETHYL ETHER	10.446	73	3937151	20.7839619	ppbv		98
43) METHYL CYCLOHEXANE	10.430	83	7189199	21.8233139	ppbv		98
44) 1,2-Dichloropropane	10.514	63	4832956	21.9189623	ppbv		98
45) Methyl Methacrylate	10.567	69	4628010	21.4709794	ppbv		99
46) 1,4-Dioxane	10.639	88	2394011	23.3888841	ppbv	#	98
47) Bromodichloromethane	10.792	83	8303671	22.8192869	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_11.D
Acq On : 26 Sep 2016 7:16 pm
Operator : 564
Sample : STD AMS 20.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS2

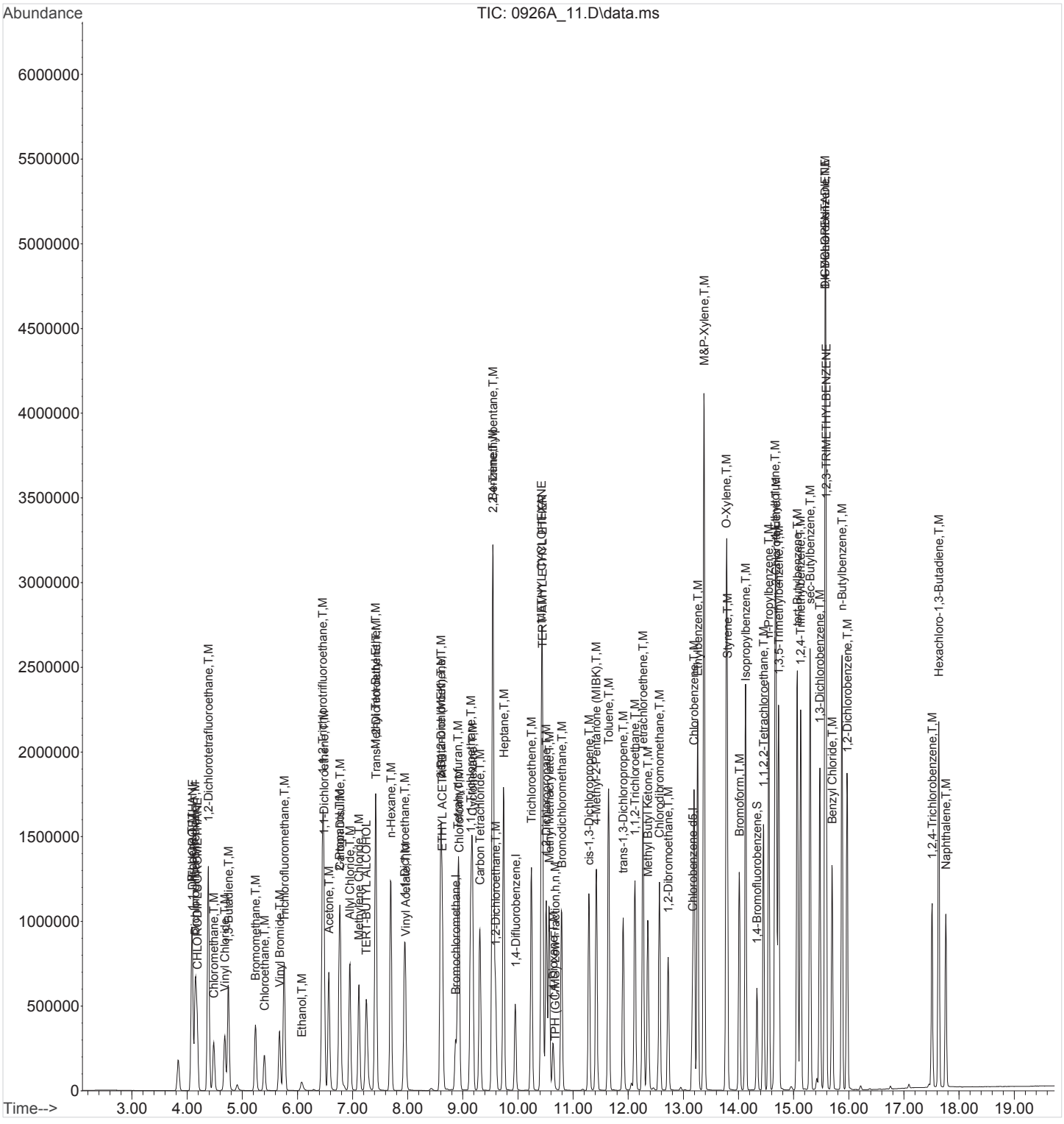
Quant Time: Sep 27 08:21:15 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:20:17 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48)	cis-1,3-Dichloropropene	11.289	75	7538773	22.6641980	ppbv	97
49)	4-Methyl-2-Pentanone (...	11.422	43	11420706	21.3192550	ppbv	100
50)	Toluene	11.646	91	15531868	21.7412679	ppbv	99
51)	trans-1,3-Dichloropropene	11.911	75	6169031	23.0554695	ppbv	96
52)	1,1,2-Trichloroethane	12.124	97	4756086	21.9800625	ppbv	98
53)	Tetrachloroethene	12.271	166	6426834	21.2134931	ppbv	98
54)	Methyl Butyl Ketone	12.358	43	9245593	23.0746560	ppbv	99
55)	Chlorodibromomethane	12.569	129	7568777	22.9393713	ppbv	100
56)	1,2-Dibromoethane	12.726	107	6514454	22.6208653	ppbv	99
57)	Chlorobenzene	13.197	112	9681185	21.0882675	ppbv	98
59)	Ethylbenzene	13.261	91	17398076	21.2710763	ppbv	100
60)	M&P-Xylene	13.376	91	25909606	41.6269081	ppbv	100
61)	O-Xylene	13.781	91	13198659	20.9118958	ppbv	99
62)	Styrene	13.796	104	10141071	22.7983837	ppbv	98
63)	Bromoform	14.016	173	6729914	23.1190717	ppbv	99
64)	Isopropylbenzene	14.130	105	17722520	20.2689962	ppbv	99
65)	1,1,2,2-Tetrachloroethane	14.454	83	9260640	20.4789977	ppbv	100
66)	n-Propylbenzene	14.550	91	21341114	20.6654526	ppbv	100
67)	4-Ethyltoluene	14.666	105	17411896	20.7016976	ppbv	99
68)	2-Chlorotoluene	14.684	91	16219526	20.8179633	ppbv	100
70)	1,3,5-Trimethylbenzene	14.730	105	14036922	19.5898818	ppbv	99
71)	tert-Butylbenzene	15.067	119	13416004	19.2813733	ppbv	95
72)	1,2,4-Trimethylbenzene	15.130	105	13774505	19.4654038	ppbv	99
73)	sec-Butylbenzene	15.300	105	21090868	19.1565295	ppbv	99
74)	1,3-Dichlorobenzene	15.477	146	8461687	22.3524188	ppbv	97
75)	1,4-Dichlorobenzene	15.572	146	8446127m	23.4339561	ppbv	
76)	1,2,3-TRIMETHYLBENZENE	15.588	105	13812688	19.0896157	ppbv	99
77)	DICYCLOPENTADIENE	15.574	66	20315171	20.1329115	ppbv	99
78)	Benzyl Chloride	15.699	91	10852249	27.3605557	ppbv	99
79)	n-Butylbenzene	15.878	91	16222768	20.3310484	ppbv	100
80)	1,2-Dichlorobenzene	15.973	146	8062091	20.5180152	ppbv	99
81)	1,2,4-Trichlorobenzene	17.513	180	3673918	30.5838937	ppbv	100
82)	Hexachloro-1,3-Butadiene	17.635	225	4614644	17.0256185	ppbv	97
83)	Naphthalene	17.762	128	8636797	27.8809777	ppbv	99
84)	TPH (GC/MS) Low Fraction	10.675	TIC	1402647894m	977.4214186	ppbv	

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

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_11.D
Acq On : 26 Sep 2016 7:16 pm
Operator : 564
Sample : STD AMS 20.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS2

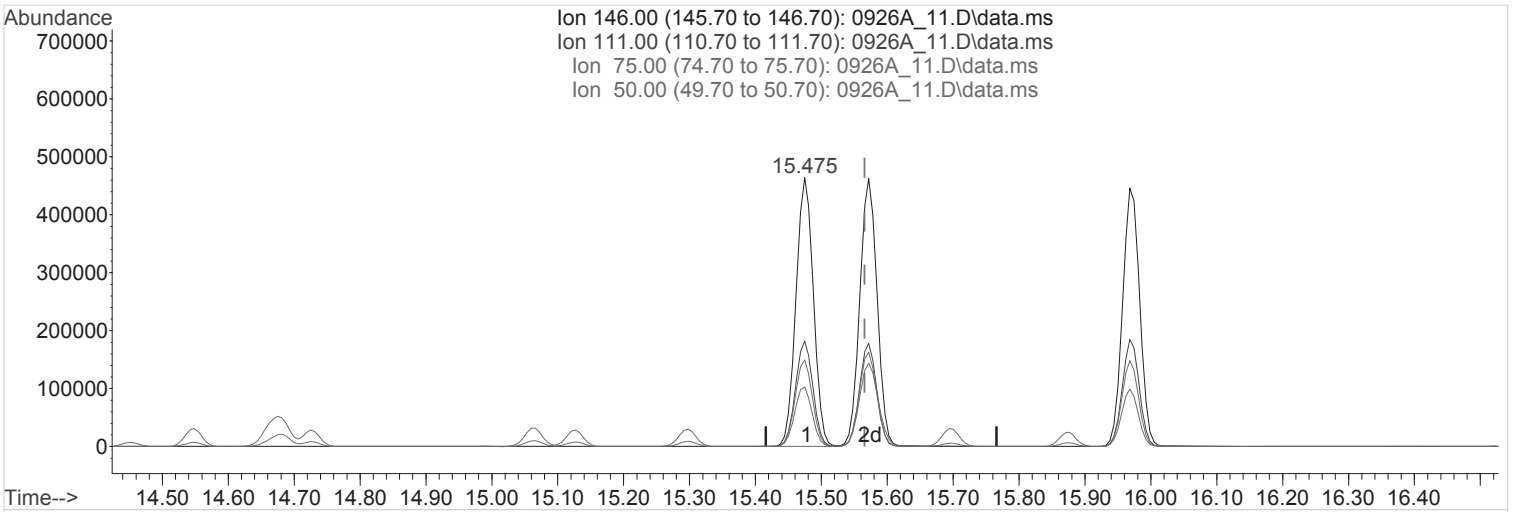
Quant Time: Sep 27 08:21:15 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:20:17 2016
Response via : Initial Calibration

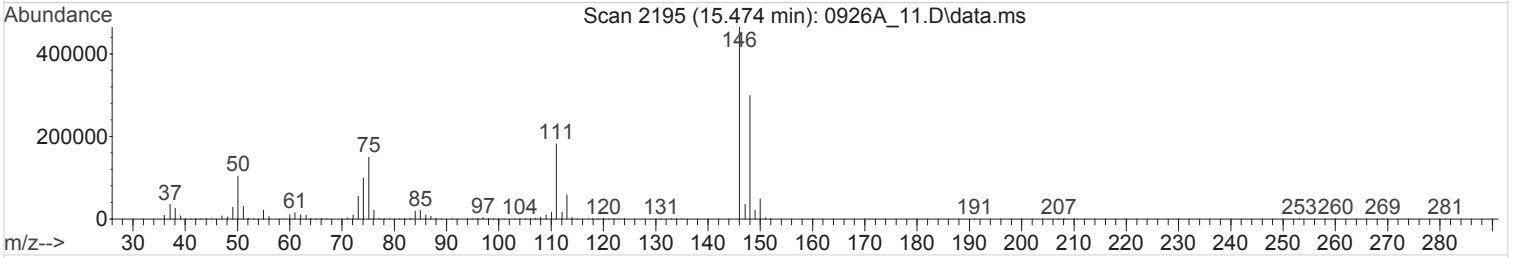


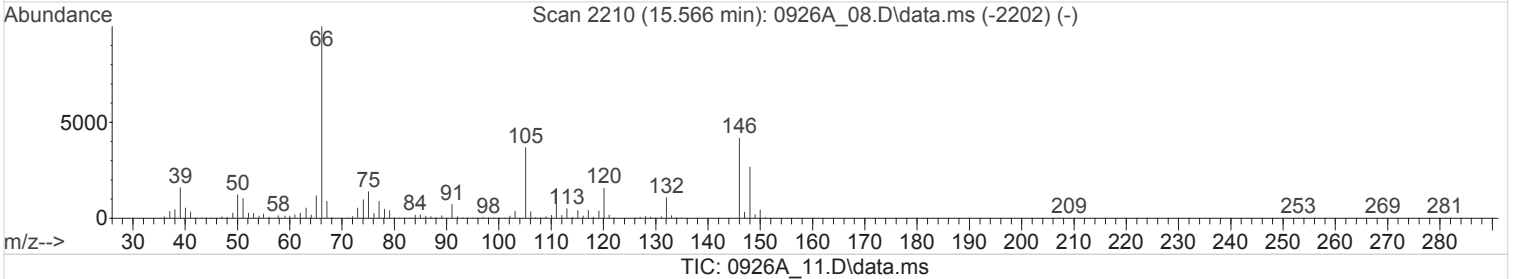
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_11.D
Acq On : 26 Sep 2016 7:16 pm
Operator : 564
Sample : STD AMS 20.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:20:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:20:17 2016
Response via : Initial Calibration







TIC: 0926A_11.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.477min (-0.088) 23.5871437 ppbv

Qvalue = 98

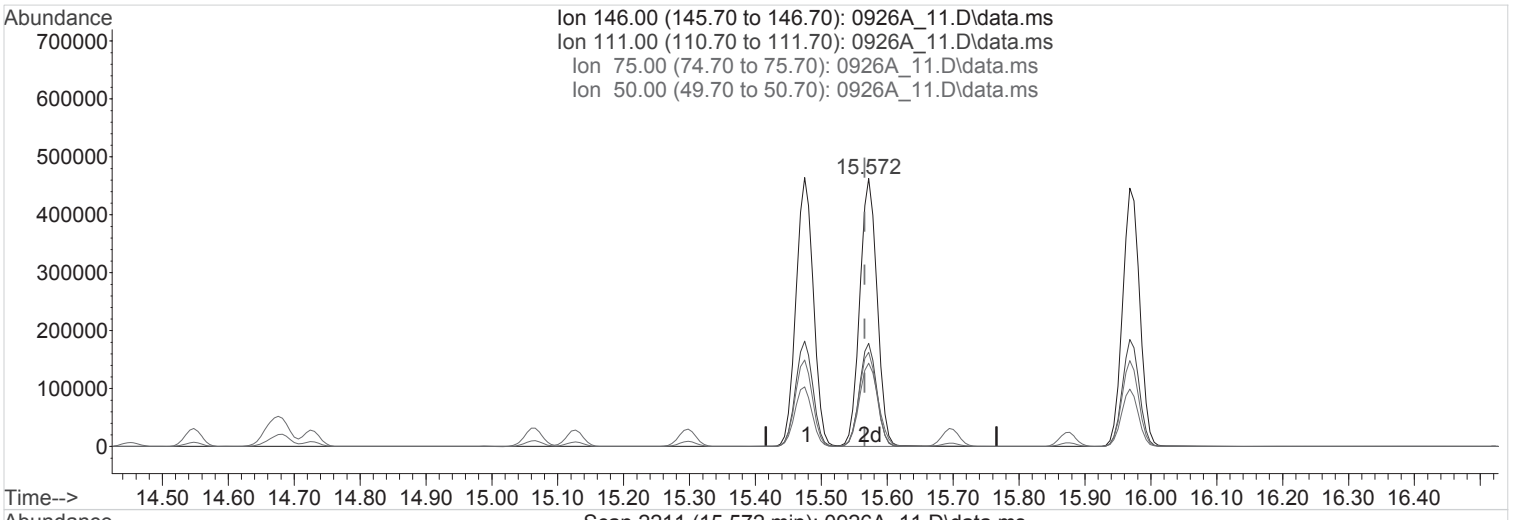
response 8501339

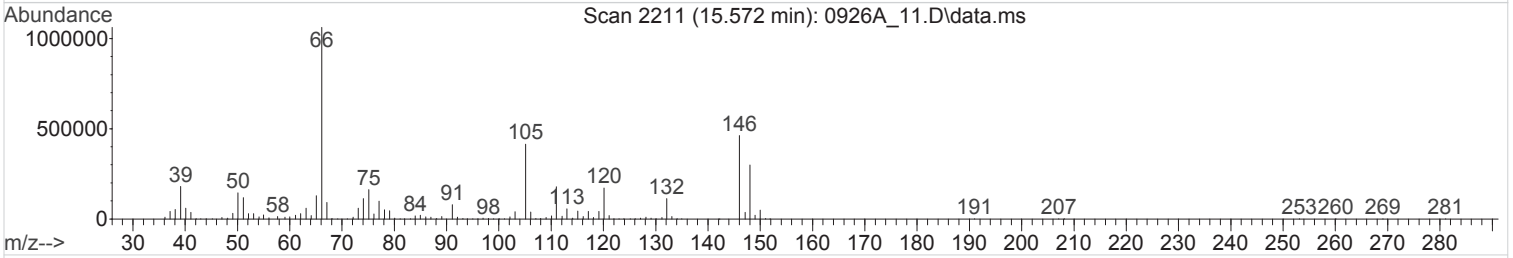
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.02
75.00	30.50	32.09
50.00	20.30	22.08

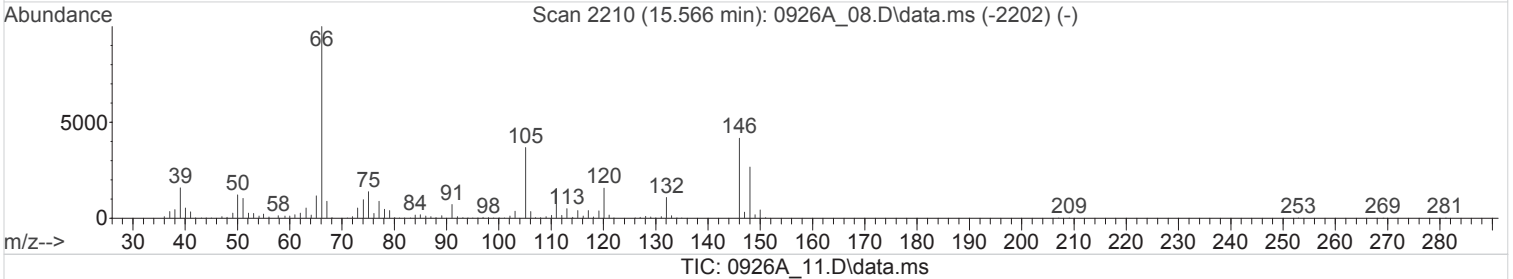
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_11.D
Acq On : 26 Sep 2016 7:16 pm
Operator : 564
Sample : STD AMS 20.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:20:22 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:20:17 2016
Response via : Initial Calibration







TIC: 0926A_11.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.572min (+0.006) 23.4339561 ppbv m

response 8446127

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	39.28
75.00	30.50	32.30
50.00	20.30	22.22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:22:20 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	8.876	130	1153761	4.0000000	ppbv		0.00
37) 1,4-Difluorobenzene	9.959	114	4596125	4.0000000	ppbv		0.00
58) Chlorobenzene-d5	13.172	117	3321647	4.0000000	ppbv	#	0.00
System Monitoring Compounds							
69) 1,4-Bromofluorobenzene	14.341	95	2180003	4.2508546	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.27%				
Target Compounds							Qvalue
2) Propene	4.089	41	11624829	59.7007357	ppbv		99
3) 1,1-DIFLUOROETHANE	4.100	65	7287014	58.6918980	ppbv		98
4) Dichlorodifluoromethane	4.153	85	14296658	36.4555856	ppbv		100
5) CHLORODIFLUOROMETHANE	4.185	67	2593634	57.4222842	ppbv		97
6) 1,2-Dichlorotetrafluor...	4.388	85	25501800	54.4948244	ppbv		98
7) Chloromethane	4.488	50	11625697	58.8279443	ppbv		99
8) Vinyl Chloride	4.687	62	12469916	58.8949156	ppbv		100
9) 1,3-Butadiene	4.752	39	10704727	59.7880827	ppbv		99
10) Bromomethane	5.244	94	9192832	56.8756598	ppbv		100
11) Chloroethane	5.406	64	6510646	59.3590004	ppbv		99
12) Vinyl Bromide	5.681	106	9146072	57.2421319	ppbv		97
13) Trichlorofluoromethane	5.765	101	20830522	57.3991904	ppbv		100
14) Ethanol	6.081	45	2564704	86.1979803	ppbv		99
15) 1,1,2-Trichlorotrifluo...	6.462	101	19714066	58.6006513	ppbv		97
16) 1,1-Dichloroethene	6.486	61	18346715	60.5948022	ppbv		98
17) Acetone	6.572	43	28399939	47.6057362	ppbv		100
18) 2-Propanol	6.775	45	27313063	70.9646962	ppbv	#	74
19) Carbon Disulfide	6.779	76	28841444	56.8286264	ppbv		98
20) Allyl Chloride	6.955	41	17117385	61.5630420	ppbv		98
21) Methylene Chloride	7.120	49	12991140	53.6552055	ppbv		98
22) TERT-BUTYL ALCOHOL	7.265	59	24489064	55.6573200	ppbv		99
23) Methyl Tert-Butyl Ether	7.419	73	30042269	56.4232717	ppbv		99
24) Trans-1,2-Dichloroethene	7.429	96	9759387	56.1498517	ppbv		98
25) n-Hexane	7.698	57	17736821	57.3484374	ppbv		99
26) 1,1-Dichloroethane	7.946	63	19076539	56.2569619	ppbv		100
27) Vinyl Acetate	7.966	43	22161792	65.4579230	ppbv		99
28) ETHYL ACETATE	8.635	70	3225942	59.6332632	ppbv		96
29) 2-Butanone (MEK)	8.606	72	5448654	60.5009643	ppbv		100
30) cis-1,2-Dichloroethene	8.606	61	19037622	60.3216781	ppbv		98
31) Tetrahydrofuran	8.917	42	15281172	59.8088002	ppbv		99
32) Chloroform	8.937	83	19269097	55.6561290	ppbv		99
33) Cyclohexane	9.179	84	14709541	56.5643250	ppbv		96
34) 1,1,1-Trichloroethane	9.149	97	18395398	56.5698313	ppbv		99
35) Carbon Tetrachloride	9.315	117	17215043	56.3034672	ppbv		99
36) 2,2,4-Trimethylpentane	9.556	57	57040007	54.9255431	ppbv		99
38) Benzene	9.546	78	33028325	55.7626418	ppbv		99
39) 1,2-Dichloroethane	9.600	62	13822135	57.5864716	ppbv		99
40) Heptane	9.747	43	23422847	57.4588097	ppbv		98
41) Trichloroethene	10.250	95	13074594	56.7822066	ppbv		95
42) TERT-AMYL ETHYL ETHER	10.450	73	10032504	53.5985889	ppbv		99
43) METHYL CYCLOHEXANE	10.434	83	18041885	55.1099651	ppbv		97
44) 1,2-Dichloropropane	10.519	63	12056302	54.9921716	ppbv		95
45) Methyl Methacrylate	10.573	69	11760905	55.0108924	ppbv		99
46) 1,4-Dioxane	10.645	88	6055562	59.0231482	ppbv	#	96
47) Bromodichloromethane	10.797	83	21063334	57.9288146	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:22:20 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration

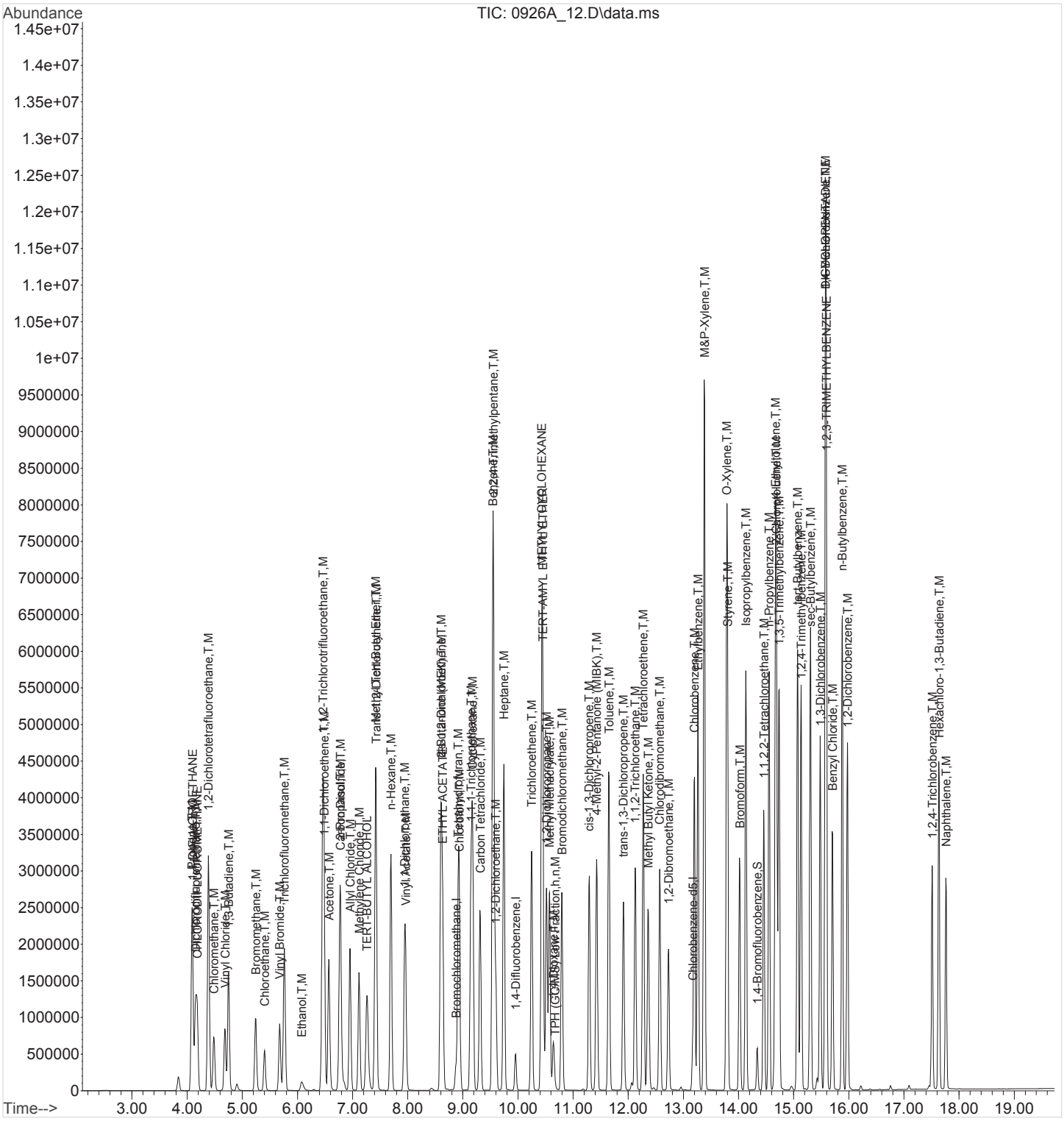
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) cis-1,3-Dichloropropene	11.294	75	18922118	56.9788407	ppbv	94
49) 4-Methyl-2-Pentanone (...	11.429	43	28926504	54.4864733	ppbv	99
50) Toluene	11.651	91	37973100	53.5107787	ppbv	98
51) trans-1,3-Dichloropropene	11.916	75	15885604	59.3383774	ppbv	94
52) 1,1,2-Trichloroethane	12.130	97	11882715	55.2113911	ppbv	98
53) Tetrachloroethene	12.276	166	15749047	52.4851509	ppbv	94
54) Methyl Butyl Ketone	12.364	43	24075920	60.0499577	ppbv	97
55) Chlorodibromomethane	12.575	129	18981815	57.5365643	ppbv	99
56) 1,2-Dibromoethane	12.732	107	16273391	56.6130391	ppbv	97
57) Chlorobenzene	13.202	112	23984820	52.7856794	ppbv	97
59) Ethylbenzene	13.266	91	42772515	53.8687564	ppbv	100
60) M&P-Xylene	13.382	91	62275541	103.3266972	ppbv	100
61) O-Xylene	13.787	91	32694961	53.4674812	ppbv	99
62) Styrene	13.802	104	25493377	58.5447109	ppbv	96
63) Bromoform	14.022	173	16814088	58.8997011	ppbv	99
64) Isopropylbenzene	14.136	105	43283082	51.2762610	ppbv	99
65) 1,1,2,2-Tetrachloroethane	14.460	83	23012200	52.6516032	ppbv	99
66) n-Propylbenzene	14.556	91	52498588	52.5427485	ppbv	99
67) 4-Ethyltoluene	14.672	105	43132238	52.9922177	ppbv	100
68) 2-Chlorotoluene	14.688	91	41356476m	54.8169003	ppbv	
70) 1,3,5-Trimethylbenzene	14.737	105	35354768	51.3024964	ppbv	99
71) tert-Butylbenzene	15.074	119	33486781	50.1262759	ppbv	93
72) 1,2,4-Trimethylbenzene	15.137	105	34897956	51.3120183	ppbv	99
73) sec-Butylbenzene	15.307	105	52311766	49.5223854	ppbv	99
74) 1,3-Dichlorobenzene	15.484	146	21541820	58.2707810	ppbv	94
75) 1,4-Dichlorobenzene	15.578	146	19544945m	55.2020474	ppbv	
76) 1,2,3-TRIMETHYLBENZENE	15.595	105	33661202	48.5054589	ppbv	98
77) DICYCLOPENTADIENE	15.580	66	49407742	50.7575279	ppbv	98
78) Benzyl Chloride	15.705	91	28986860	72.8350813	ppbv	99
79) n-Butylbenzene	15.883	91	41275860	53.5639858	ppbv	98
80) 1,2-Dichlorobenzene	15.979	146	20351425	53.5765054	ppbv	97
81) 1,2,4-Trichlorobenzene	17.515	180	10041282	81.8990170	ppbv	98
82) Hexachloro-1,3-Butadiene	17.637	225	9491980	36.9400847	ppbv	93
83) Naphthalene	17.765	128	24167968	77.5398614	ppbv	99
84) TPH (GC/MS) Low Fraction	10.675	TIC	3565067963m	2565.8078825	ppbv	

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

Quantitation Report (QT Reviewed)

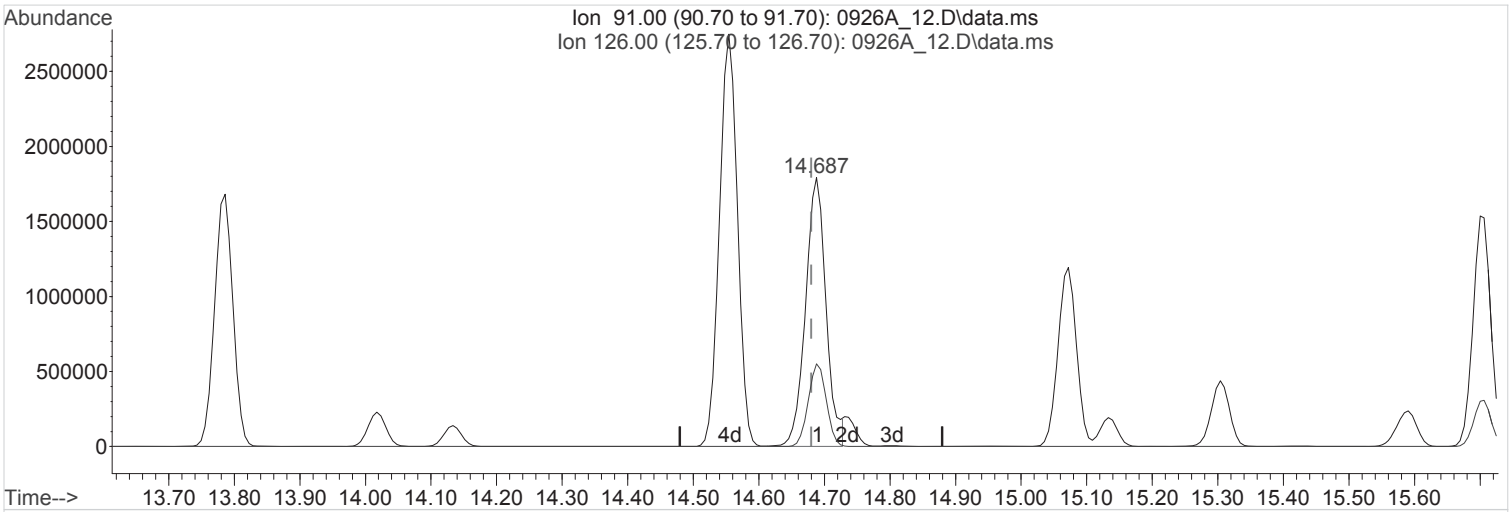
Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

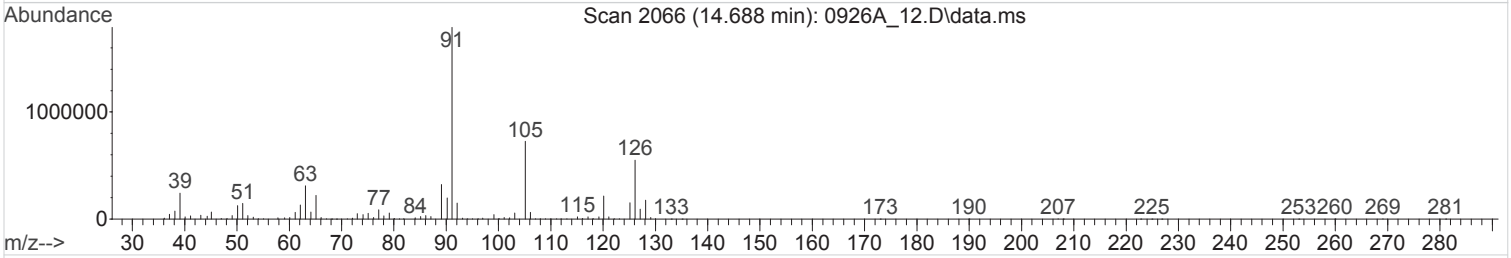
Quant Time: Sep 27 08:22:20 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration

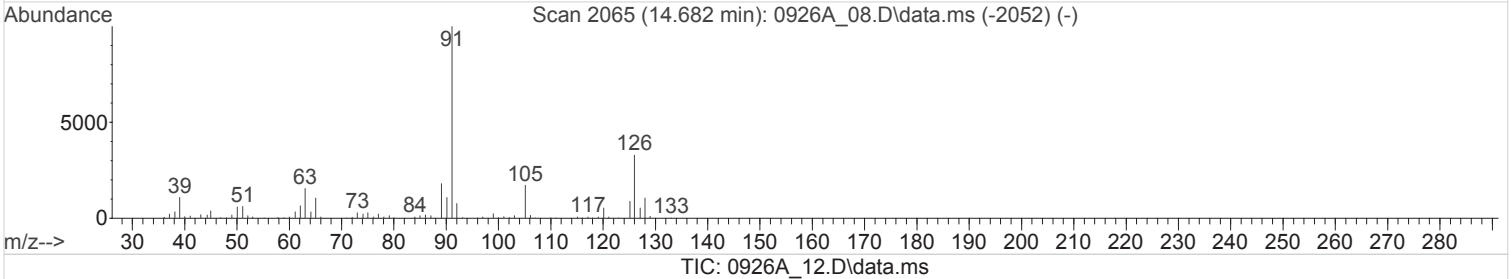


Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:21:27 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration







TIC: 0926A_12.D\data.ms

(68) 2-Chlorotoluene (T,M)

14.690min (+0.010) 50.7230106 ppbv

Qvalue = 97

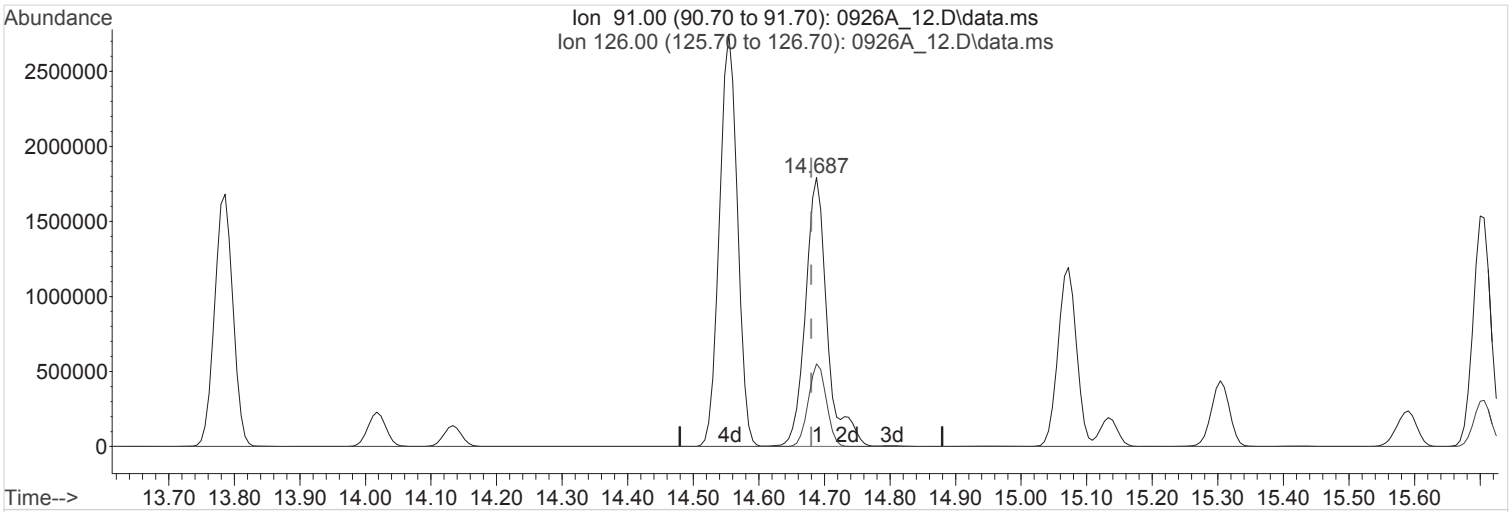
response 38267851

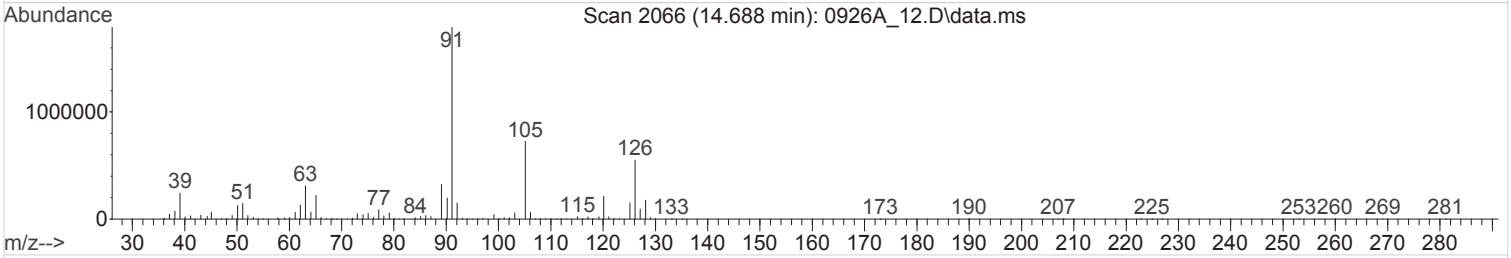
Ion	Exp%	Act%
91.00	100	100
126.00	25.90	27.48
0.00	0.00	0.00
0.00	0.00	0.00

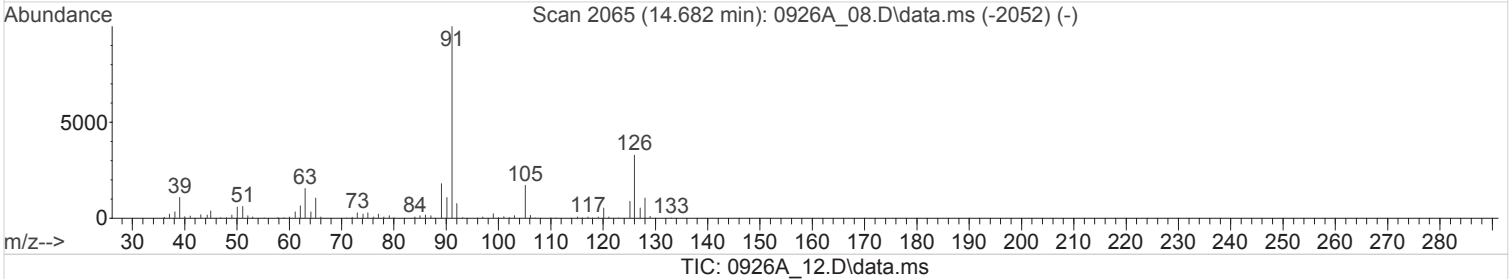
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:21:27 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration







TIC: 0926A_12.D\data.ms

(68) 2-Chlorotoluene (T,M)

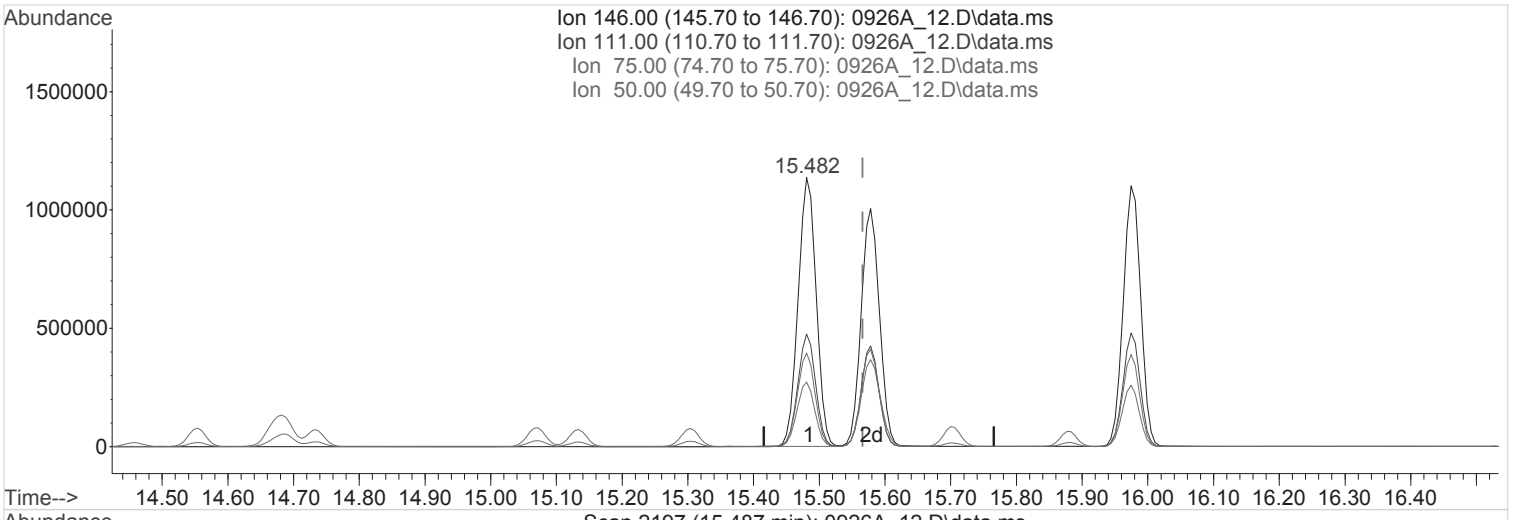
14.688min (+0.008) 54.8169003 ppbv m

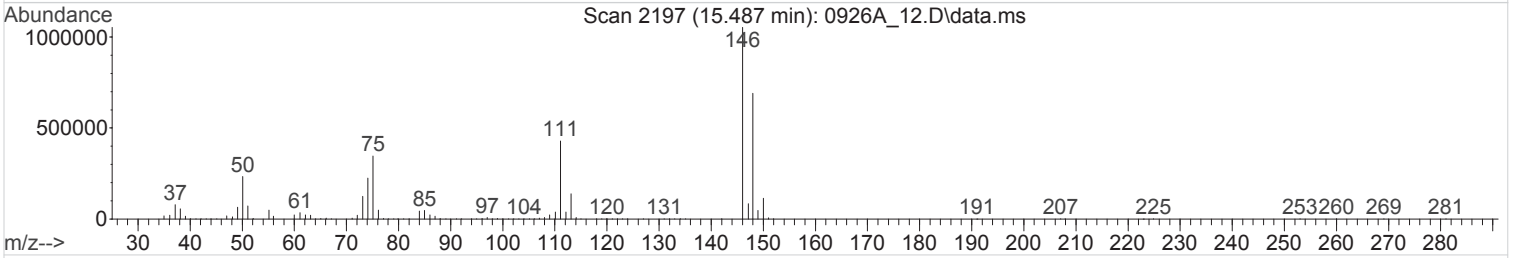
response 41356476

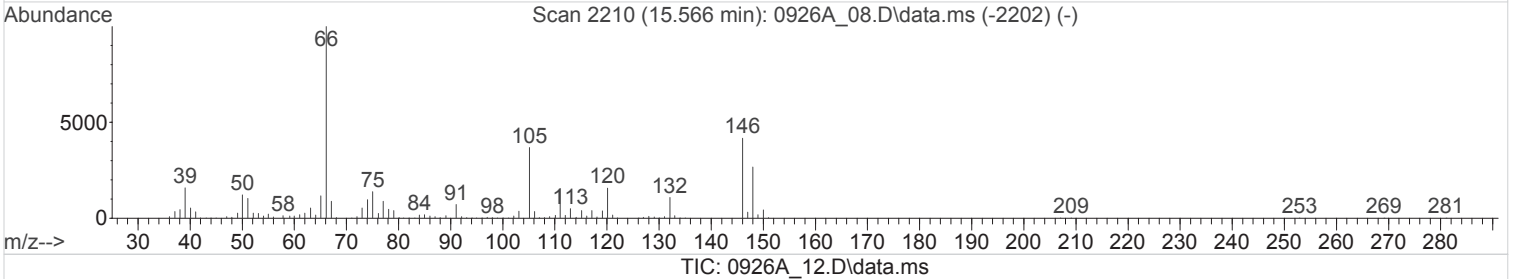
Ion	Exp%	Act%
91.00	100	100
126.00	25.90	25.43
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:21:27 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration







TIC: 0926A_12.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.484min (-0.082) 61.1391318 ppbv

Qvalue = 95

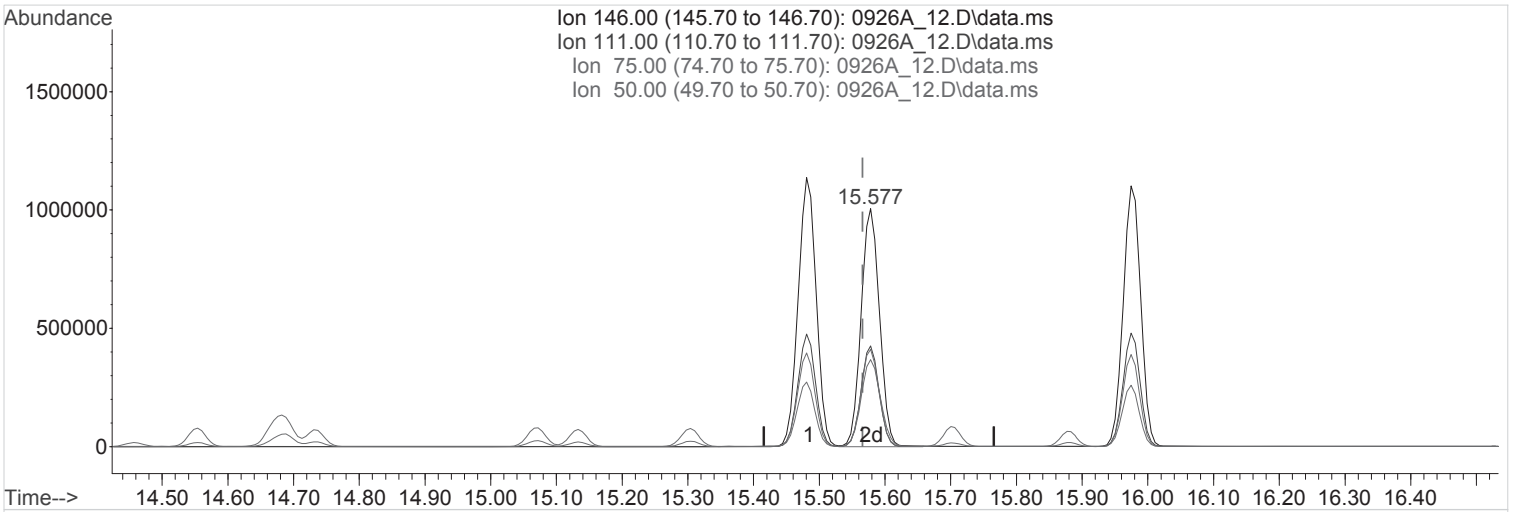
response 21647041

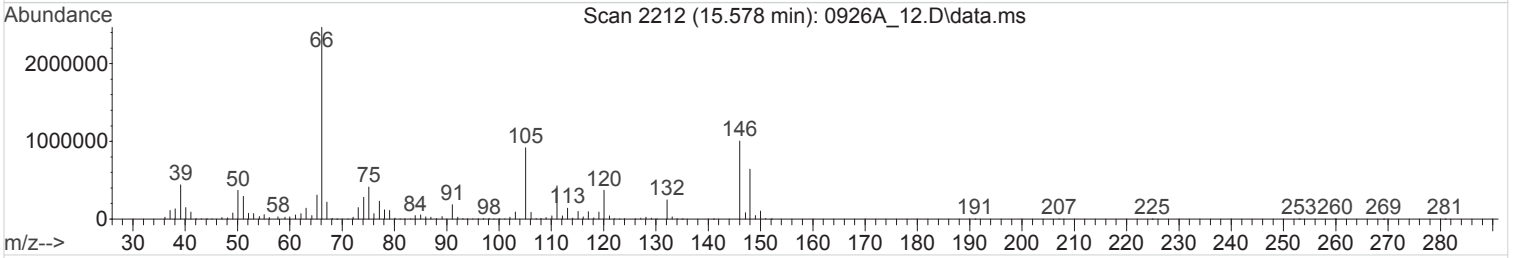
Ion	Exp%	Act%
146.00	100	100
111.00	39.00	40.78
75.00	30.50	33.87
50.00	20.30	23.39

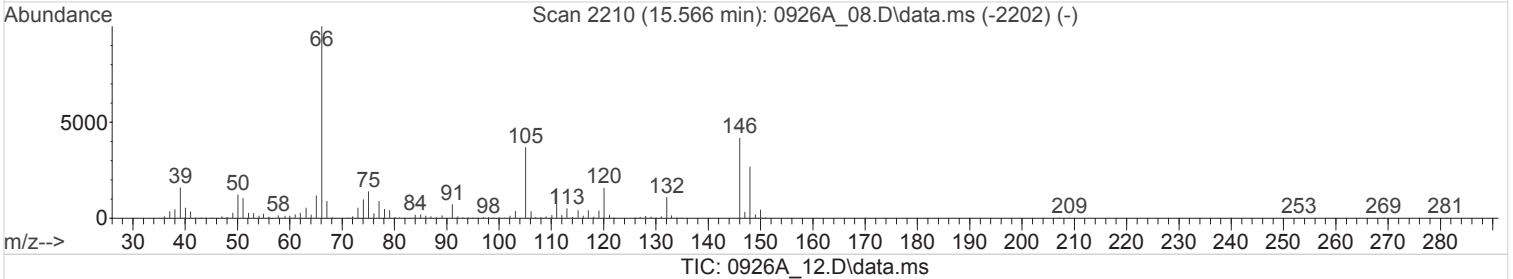
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092616A\
Data File : 0926A_12.D
Acq On : 26 Sep 2016 8:09 pm
Operator : 564
Sample : STD AMS 50.0 ppbv BV081816K1352
Misc : BV032517K1389
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS2

Quant Time: Sep 27 08:21:27 2016
Quant Method : C:\msdchem\1\methods\TOAIRMS2I26P.M
Quant Title :
QLast Update : Tue Sep 27 08:21:22 2016
Response via : Initial Calibration







TIC: 0926A_12.D\data.ms

(75) 1,4-Dichlorobenzene (T,M)

15.578min (+0.012) 55.2020474 ppbv m

response 19544945

Ion	Exp%	Act%
146.00	100	100
111.00	39.00	45.17
75.00	30.50	37.51#
50.00	20.30	25.91#

K159

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ESC Lab Sciences
12065 Lebanon Rd.
Mt. Juliet, TN 37122
800-767-5859

CHAIN OF CUSTODY RECORD

CH2M
4121 Carmichael Dr., Suite 400
Montgomery, AL 36106
(334) 215-9058
FAX (334) 273-7532

Project/Contact Information	
Project #	666378.01.SG
Project Name	Montgomery DEAP
Report Copy to	Kaye Walker/MGM
Company Name/Contact	CH2M HILL/Glen Davis/MGM

THIS AREA FOR LAB USE ONLY		
Lab #	Pg	of
Lab PM	Custody Review	
Log In	LIMS Verification	
pH	Cust Seals Y N Ice	
QC Level 1 2 3		
Cooler Temperature		

Sampling Date	Sampling Time	Type Comp	Type Grab	Matrix Water	Matrix Soil	Matrix Air	Client Sample ID (9 Characters Max)	LAB QC	Number of Containers	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Alternate Description	Lab ID
9/19/16	1607		X			X	AMS-01-0916		1	2239	1451	-29.91	-3.57	1L	061822-01	
9/19/16	1707		X			X	AMS-02-0916		1	1221	874	-28.38	-3.95	1L	02	
9/20/16	1235		X			X	AMS-03-0916		1	1315	1060	-29.74	-2.24	1L	03	
9/20/16	1354		X			X	AMS-04-0916		1	1284	676	-30.04	-2.73	1L	04	
9/20/16	1354		X			X	AMS-FD-0916		1	1507	676	-29.82	-2.76	1L	05	
9/21/16	1147		X			X	SV-TMPZ1-27		1	1492	1424	-30.00	-3.77	1L	06	
9/21/16	1219		X			X	SV-TMPZ1-08		1	1993	1344	-29.89	-4.43	1L	07	
9/21/16	1613		X			X	VIMS-10-0916		1	732	1477	-29.96	-3.47	1L	08	
9/21/16	1728		X			X	SV-MW12-22		1	1523	865A	-30.23	-2.86	1L	09	
9/21/16	1807		X			X	SV-MW12-08		1	2031	770	-29.56	-2.13	1L	10	
9/21/16	1728		X			X	SV-FD-0916		1	954	865A	-30.11	-2.81	1L	11	
9/22/16	0920		X			X	VIMS-50-0916		1	923	785	-29.63	-3.70	1L	12	
9/22/16	1225		X			X	SV-MW08-08		1	1293	880	-29.96	-3.55	1L	13	

Requested Analysis: VOC* - TO-15

Sampled By	Jonathan Jansen		
Relinquished By		1400	9/23/16
Received By			
Relinquished By			
Received By		Date/Time	9/24/16 0900

AMB°

Special Instructions

EPA DQO Level III data package and 14 day TAT are required.
*Short List - PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride

File: DEAP_COC_Sept2016_P1_VI.xlsx

FedEx – 7066 8113 5347 | 6903 4763 7120 | 6903 4763 7119
7061 6676 0925 | 6903 4763 7093
6903 4763 7108 | 6903 463 7130

16 + 9 EMPTY + 2 PSP

ESC Lab Sciences
12065 Lebanon Rd.
Mt. Juliet, TN 37122
800-767-5859

CHAIN OF CUSTODY RECORD

CH2M
4121 Carmichael Dr., Suite 400
Montgomery, AL 36106
(334) 215-9058
FAX (334) 273-7532

Project/Contact Information	
Project #	666378.01.SG
Project Name	Montgomery DEAP
Report Copy to	Kaye Walker/MGM
Company Name/Contact	CH2M HILL/Glen Davis/MGM

THIS AREA FOR LAB USE ONLY		
Lab #	Pg	of
Lab PM	Custody Review	
Log In	LIMS Verification	
pH	Cust Seals Y N Ice	
QC Level 1 2 3		
Cooler Temperature		

Sampling Date	Sampling Time	Type Comp	Type Grab	Matrix Water	Matrix Soil	Matrix Air	Client Sample ID (9 Characters Max)	LAB QC	Number of Containers	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Alternate Description	Lab ID
9/22/16	1359		X			X	SV-MW08-30		1	1561	1365	-29.98	-3.88	1L	4610m-4	
9/22/16	1635		X			X	SV-MW02-35		1	1815	1085	-29.98	-3.38	1L	15	
9/23/16	0703		X			X	AMS-MW02-08		1	2292	890	-30.08	-1.92	1L	16	
						X								1L	1	
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		
						X								1L		

Requested Analysis: VOC* - TO-15

Sampled By	Jestin Hansen	Relinquished By	9/23/16 1400
Received By		Relinquished By	
Received By		Date/Time	9/24/16 0900

0900

Special Instructions

EPA DQO Level III data package and 14 day TAT are required.
*Short List - PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride

AMS

File: DEAP_COC_Sept2016_P1_VI.xlsx

16 + 9 EMPTY + 2 LST

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client: CH2M Chromium		SDG#	961322
Cooler Received/Opened On: 9/24/16		Temperature Upon Receipt:	AMBIENT °c
Received By: JASON ROMER			
Signature:			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)			

ESC Lab Sciences

Login Confirmation Report

September 25, 2016 - 00:07

YOUR LAB OF CHOICE

Account: CH2MMAL - CH2MHILL - Montgomery, AL

Login #	**L861822**	Receive Date: 09/24/2016	TSR: Craig Cothron
Template #		Entered: 09/24/2016	By: Matt Shacklock
Report to:	Ms. Kaye Walker 4121 Carmichael Rd, Suite 400 Montgomery, AL 36106	Lab Project Number: CH2MMAL-DEAP Client Project # 666378.01 SG Project Description: MGM DEAP Soil Vapor Collected By: Jestina Hansen	**Report MDL: Y** **HDC: N** PO # PO Req: N
Phone:	(334) 215-9058 FAX:	Reg. State: AL	Terms: 30
Email:	kaye.walker@ch2m.com		Quote #

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L861822-01		**AMS-01-0916**	**09/19/2016 16:07** Sample Description: MGM DEAP Soil Vapro	**Site:**	**Est. Due Date*: 09/30/2016 - NU**	
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00
Misc	DISPOSAL	Sample Disposal Charge				$ 5.00
Misc	ENERGY	Energy Surcharge				$ 15.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L861822-02		**AMS-02-0916**	**09/19/2016 17:07** Sample Description: MGM DEAP Soil Vapro	**Site:**	**Est. Due Date*: 09/30/2016 - NU**	
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00
L861822-03		**AMS-03-0916**	**09/20/2016 12:35** Sample Description: MGM DEAP Soil Vapro	**Site:**	**Est. Due Date*: 09/30/2016 - NU**	
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00
L861822-04		**AMS-04-0916**	**09/20/2016 13:54** Sample Description: MGM DEAP Soil Vapro	**Site:**	**Est. Due Date*: 09/30/2016 - NU**	
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00
L861822-05		**AMS-FD-0916**	**09/20/2016 13:54** Sample Description: MGM DEAP Soil Vapro	**Site:**	**Est. Due Date*: 09/30/2016 - NU**	
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00

L861822-06		**SV-TMPZ1-27**	**09/21/2016 11:47**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-07		**SV-TMPZ1-08**	**09/21/2016 12:19**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-08		**VIMS-10-0916**	**09/21/2016 16:13**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-09		**SV-MW12-22**	**09/21/2016 17:28**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-10		**SV-MW12-08**	**09/21/2016 18:07**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-11		**SV-PD-0916**	**09/21/2016 17:28**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-12		**VIMS-50-0916**	**09/22/2016 09:20**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-13		**SV-MW08-08**	**09/22/2016 12:25**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00
L861822-14		**SV-MW08-30**	**09/22/2016 13:59**	**Site:**	**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro		
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental			$ 25.00
Air	SUMMA	Summa Canister			$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15		TO-15	$ 165.00

L861822-15		**SV-MW02-35**	**09/22/2016 16:35**	**Site:**		**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro			
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00
L861822-16		**AMS-MW02-08**	**09/23/2016 07:03**	**Site:**		**Est. Due Date*: 09/30/2016 - NU**
			Sample Description: MGM DEAP Soil Vapro			
Air	FCVALVE-1	Flow Control Valve(1 hr/6 L)-Week Rental				$ 25.00
Air	SUMMA	Summa Canister				$ 35.00
Air	TO-15	Volatile Organics in Air by TO-15			TO-15	$ 165.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 3,620.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**

ESC LAB SCIENCES
YOUR LAB OF CHOICE

ANALYTICAL REPORT

October 10, 2016

myESC
REAL TIME DATA ACCESS

CH2MHILL - Montgomery, AL

Sample Delivery Group:	L861900
Samples Received:	09/24/2016
Project Number:	666378.01.SG
Description:	Montgomery DEAP

Report To:

Ms. Kaye Walker
4121 Carmichael Rd, Suite 400
Montgomery, AL 36106

Entire Report Reviewed By:

Craig Cothron
Technical Service Representative

TABLE OF CONTENTS

ONE LAB. NATIONWIDE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Technical Service Representative

Project Narrative

L861900 -01, -02, -03, -04, -05, -06 contains subout data that is included after the chain of custody.

Abbreviations and Definitions

SDG	Sample Delivery Group.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

Cp | Tc | Cn | Gl | Al | Sc

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1,4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

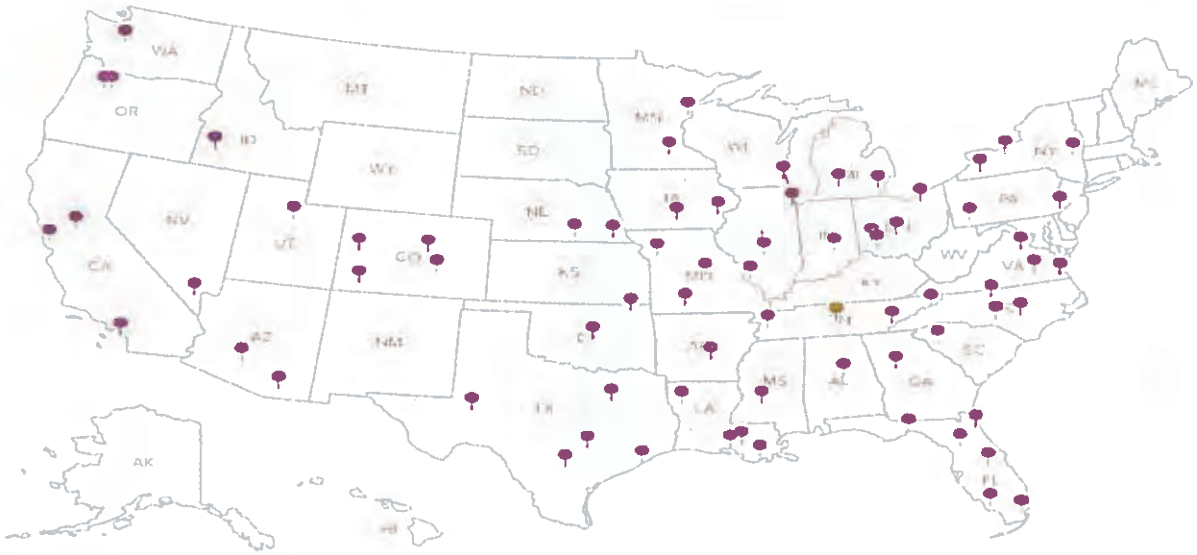
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [--] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



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ESC Lab Sciences
12065 Lebanon Rd
Mt. Juliet, TN 37122
800-767-5859

CHAIN OF CUSTODY RECORD

CH2M
4121 Carmichael Dr., Suite 400
Montgomery, AL 36106
(334) 215-9058
FAX (334) 273-7532

Project/Contact Information

Project #	666378.01.SG
Project Name	Montgomery DEAP
Report Copy to	Kaye Walker/MGM
Company Name/Contact	CH2M HILL/Glen Davis/MGM

Sampling Date	Sampling Time	Type Comp	Type Grab	Matrix Water	Matrix Soil	Matrix Air	Client Sample ID (9 Characters Max)	LAB QC	Total Number of Containers	Requested Analysis: Dry Bulk Density ASTM D7263-09	Total Porosity ASTM D7263-09	Saturated Porosity ASTM D7263-09	Total FOC Walkley Black Method	Preservative	Alternate Description / Lab ID
9/19/16	0940		X		X		TMP2-0911-0916		1	X	X	X	X		LB61900-01
9/19/16	1010		X		X		TMP2-1820-0916		1	X	X	X	X		-02
9/21/16	1015		X		X		MW12-0906-0916		1	X	X	X	X		-03
9/21/16	1045		X		X		MW12 2224-0916		1	X	X	X	X		-04
9/22/16	1115		X		X		MW08-2830-0916		1	X	X	X	X		-05
9/22/16	1625		X		X		MW02-0507-0916		1	X	X	X	X		-06

THIS AREA FOR LAB USE ONLY

Lab #	Pg	of
Lab PM	Custody Review	
Log In	LIMS Verification	
pH	Cust Seals Y N / Ice	
QC Level 1 2 3		
Cooler Temperature		

Sampled By	James R Vanhoff 9/22/16 16:00
Received By	
Received By	
Special Instructions	EPA DQO Level III data package and 14 day TAT are required.
Relinquished By	James R Vanhoff 9/23/16 15:30
Relinquished By	
Date/Time	9/24/16 0900

6 - Shelby Tubes

FedEx - 6903 4763 7071

File: DEAP_COC_Sept2016_P2_Geo.xlsx

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

Cooler Receipt Form

Client:	CH2M MAL	SDG#	L961900
Cooler Received/Opened On:	9/24/16	Temperature Upon Receipt:	AMBIENT °c
Received By:	JASON ROMER		
Signature:			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)			

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615-350-8124
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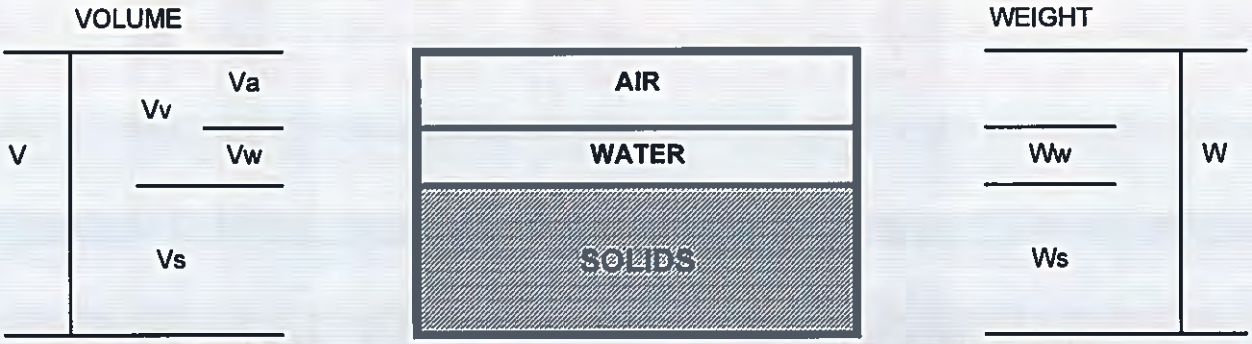
DETERMINATION OF PHYSICAL PROPERTIES OF SOILS



Va = VOLUMETRIC AIR, Volume of Air
Vw =VOLUMETRIC WATER , Volume of Water
Vs = Volume of Solids
Vv = Volume of voids

W = TOTAL SAMPLE WEIGHT
Ww = Weight of Water
Ws = Weight of Soilds

POROSITY = Ratio of volume of voids to the total volume (V) of a given mass, Vv / V

SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	**OCTOBER 6, 2016**		
PROJECT NUMBER	**16-7121**		
PROJECT	**ENVIRONMENTAL SCIENCE S 24454**		
LOCATION OF SAMPLE	**L 861900-01**	LAB ID	ST 4627
TYPE SAMPLE	**SHELBY TUBE**		
SOIL TYPE AND COLOR DESCRIPTION	**CLAY, MOTTLED RED AND GRAY WITH SAND AND CINDERS**		
LENGTH	11.2 cm		
WEIGHT	403.8 grams		

VOLUMETRIC AIR	**0.04**	cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.33**	cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.37**	cm3/cm3 soil
SOIL WET DENSITY	**128.9**	pcf.
	2.06	g soil/cm3 soil
SOIL BULK DRY DENSITY	**108.2**	pcf.
	1.73	g soil/cm3 soil

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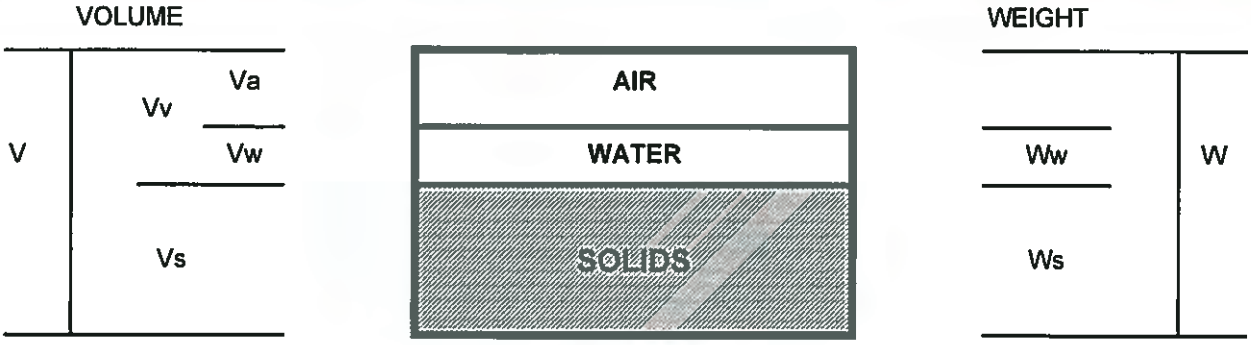

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SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	**OCTOBER 6, 2016**		
PROJECT NUMBER	**16-7121**		
PROJECT	**ENVIRONMENTAL SCIENCE S 24454**		
LOCATION OF SAMPLE	**L 861900-02**	LAB ID	ST 4628
TYPE SAMPLE	**SHELBY TUBE**		
SOIL TYPE AND COLOR DESCRIPTION	**CLAY, GRAY**		
LENGTH	8.135 cm		
WEIGHT	270.4 grams		

VOLUMETRIC AIR	**0.01**	cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.47**	cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.48**	cm3/cm3 soil
SOIL WET DENSITY	**120.4**	pcf.
	1.93	g soil/cm3 soil
SOIL BULK DRY DENSITY	**91.1**	pcf.
	1.46	g soil/cm3 soil

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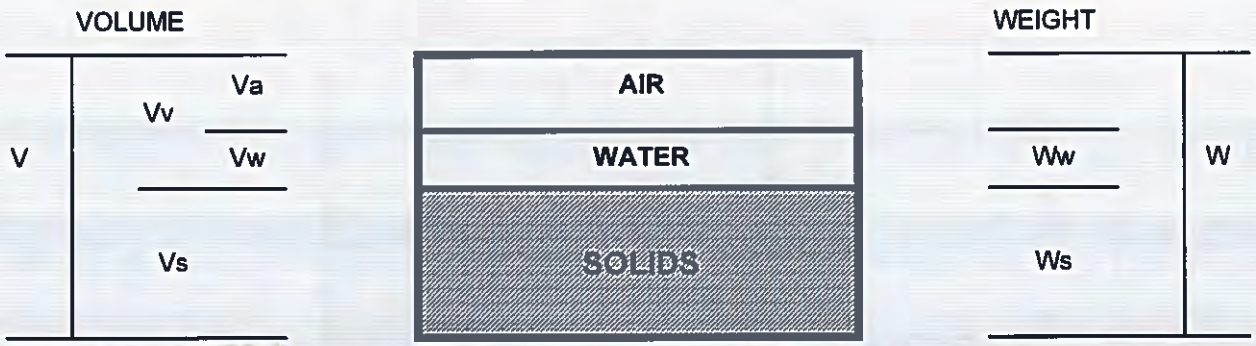

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SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	OCTOBER 6, 2016		
PROJECT NUMBER	16-7121		
PROJECT	ENVIRONMENTAL SCIENCE S 24454		
LOCATION OF SAMPLE	L 861900-03	LAB ID	ST 4629
TYPE SAMPLE	SHELBY TUBE		
SOIL TYPE AND COLOR DESCRIPTION	SILTY CLAY, GRAY		
LENGTH	6.359 cm		
WEIGHT	176.7 grams		

VOLUMETRIC AIR	**0.12** cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.35** cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.47** cm3/cm3 soil
SOIL WET DENSITY	**113.0** pcf.
	1.81 g soil/cm3 soil
SOIL BULK DRY DENSITY	**91.0** pcf.
	1.46 g soil/cm3 soil

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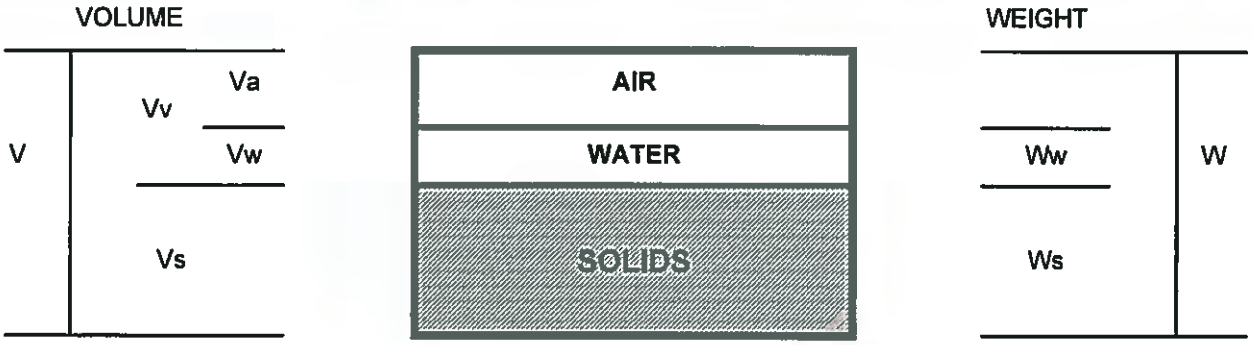

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SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	**OCTOBER 6, 2016**		
PROJECT NUMBER	**16-7121**		
PROJECT	**ENVIRONMENTAL SCIENCE S 24454**		
LOCATION OF SAMPLE	**L 861900-04**	LAB ID	ST 4630
TYPE SAMPLE	**SHELBY TUBE**		
SOIL TYPE AND COLOR DESCRIPTION	**SILTY CLAY, GRAY**		
LENGTH	7.38 cm		
WEIGHT	251.1 grams		

VOLUMETRIC AIR	**0.05**	cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.39**	cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.44**	cm3/cm3 soil
SOIL WET DENSITY	**120.2**	pcf.
	1.93	g soil/cm3 soil
SOIL BULK DRY DENSITY	**95.8**	pcf.
	1.53	g soil/cm3 soil

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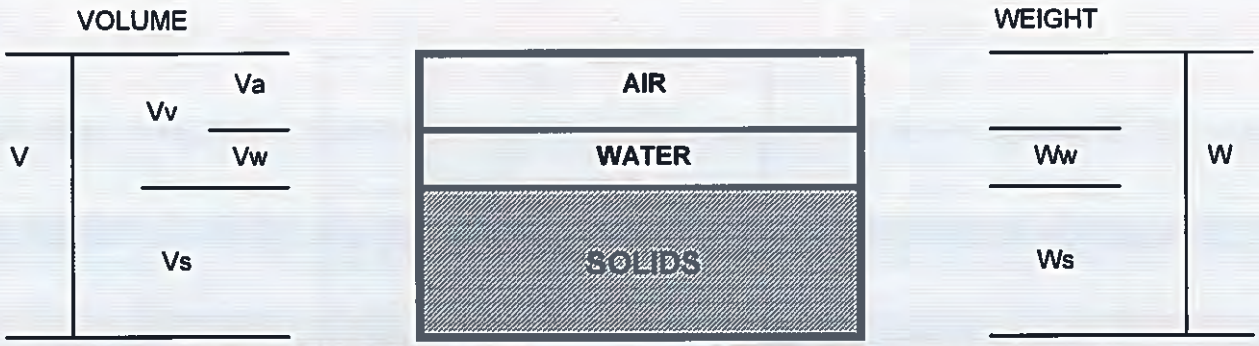
DETERMINATION OF PHYSICAL PROPERTIES OF SOILS



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SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	**OCTOBER 6, 2016**		
PROJECT NUMBER	**16-7121**		
PROJECT	**ENVIRONMENTAL SCIENCE S 24454**		
LOCATION OF SAMPLE	**L 861900-05**	LAB ID	ST 4631
TYPE SAMPLE	**SHELBY TUBE**		
SOIL TYPE AND COLOR DESCRIPTION	**SAND, BROWN**		
LENGTH	6.517 cm		
WEIGHT	203.6 grams		

VOLUMETRIC AIR	**0.09** cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.27** cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.36** cm3/cm3 soil
SOIL WET DENSITY	**123.2** pcf.
	1.97 g soil/cm3 soil
SOIL BULK DRY DENSITY	**106.5** pcf.
	1.71 g soil/cm3 soil

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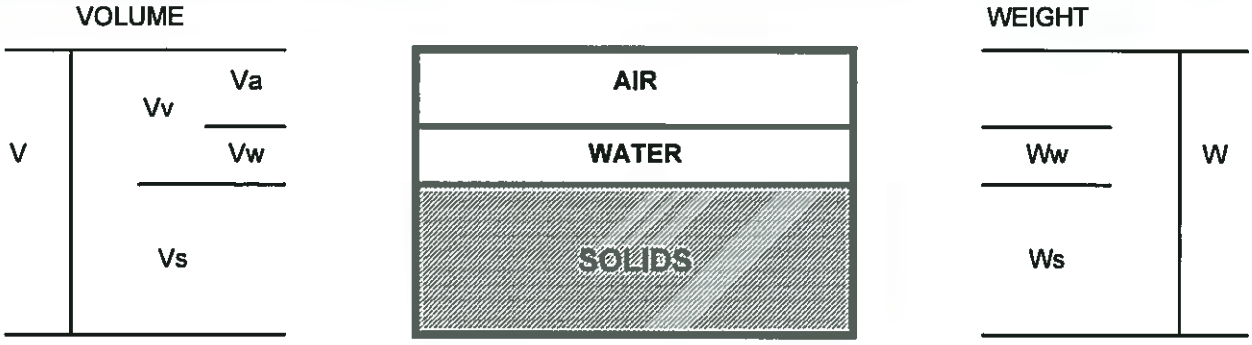
DETERMINATION OF PHYSICAL PROPERTIES OF SOILS



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Vv = Volume of voids

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Ww = Weight of Water
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POROSITY = Ratio of volume of voids to the total volume (V) of a given mass, Vv / V

SAMPLE IDENTIFICATION AND TEST RESULTS

DATE	**OCTOBER 6, 2016**		
PROJECT NUMBER	**16-7121**		
PROJECT	**ENVIRONMENTAL SCIENCE S 24454**		
LOCATION OF SAMPLE	**L 861900-06**	LAB ID	ST 4632
TYPE SAMPLE	**SHELBY TUBE**		
SOIL TYPE AND COLOR DESCRIPTION	**SAND, YELLOWISH BROWN**		
LENGTH	5.37 cm		
WEIGHT	158.5 grams		

VOLUMETRIC AIR	**0.32**	cm3 air/cm3 soil
VOLUMETRIC WATER CONTENT	**0.08**	cm3 H2o/cm3 soil
TOTAL SOIL POROSITY	**.40**	cm3/cm3 soil
SOIL WET DENSITY	**105.0**	pcf.
	1.68	g soil/cm3 soil
SOIL BULK DRY DENSITY	**99.7**	pcf.
	1.60	g soil/cm3 soil

Waypoint ANALYTICAL

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Environmental Science
Ms. Janice Cozby
12065 Lebanon Rd.
Mt. Juliet , TN 37122

Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randall H. Thomas

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **93293**
Sample ID : **L861900-01**

Matrix: **Solids**
Sampled: **9/19/2016 9:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.510**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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12065 Lebanon Rd.
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Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randell H. Thomas

Randy Thomas
Project Manager

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Lab No : **93294**
Sample ID : **L861900-02**

Matrix: **Solids**
Sampled: **9/19/2016 10:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.110**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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12065 Lebanon Rd.
Mt. Juliet , TN 37122

Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randall H. Thomas

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **93295**
Sample ID : **L861900-03**

Matrix: **Solids**
Sampled: **9/21/2016 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.150**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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Environmental Science
Ms. Janice Cozby
12065 Lebanon Rd.
Mt. Juliet , TN 37122

Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randall H. Thomas

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **93296**
Sample ID : **L861900-04**

Matrix: **Solids**
Sampled: **9/21/2016 10:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.080**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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12065 Lebanon Rd.
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Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randall H. Thomas

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **93297**
Sample ID : **L861900-05**

Matrix: **Solids**
Sampled: **9/22/2016 11:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.110**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

07705
Environmental Science
Ms. Janice Cozby
12065 Lebanon Rd.
Mt. Juliet , TN 37122

Project Information : WG911372

Report Date : 10/07/2016
Received : 10/4/2016

Randell H. Thomas

Randy Thomas
Project Manager

Report Number : **16-278-0258**

REPORT OF ANALYSIS

Lab No : **93298**
Sample ID : **LB61900-06**

Matrix: **Solids**
Sampled: **9/22/2016 16:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fractional Organic Carbon (FOC)	**0.160**	%	0.050	1	10/06/16 13:00	DXT	WALK-BLACK ~

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

Cooler Receipt Form

Customer Number: **07705**
Customer Name: **Environmental Science**
Report Number: **16-278-0258**

Shipping Method

● Fed Ex	○ US Postal	○ Lab	○ Other :	
○ UPS	○ Client	○ Courier	Thermometer ID:	#8

Shipping container/cooler uncompromised?	● Yes	○ No	
Number of coolers received	1		
Custody seals intact on shipping container/cooler?	● Yes	○ No	○ Not Required
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Required
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	○ No	
Water - Sample containers properly preserved	○ Yes	○ No	● N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross Date & Time: 10/04/2016 09:16:24

07705
10-04-2016
09:16:02
Environmental Science
WG911372

Environmental Science Corp
12065 Lebanon Road
Mt. Juliet , TN 37122
(615) 773-9756 (615) 758-5859 fa

Sub-Contract Lab : Waypoint Analytical, Inc. (via Beaver Eng.)
City / State : 2790 Whitten Rd, Memphis, TN 38133
Results Needed by : 10/12/2016
ESC Purchase Order # : S24455
Send Reports To : Janice Cozby jcozby@esclabsciences com

WORKGROUP	WG911372
Date Created :	09/26/2016

SAMPLENO / Container #	MATRIX	Date / Time Collected	PARAMETER	Code	METHOD	Comments
L861900-01	SS	09/19/2016 0940	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262554 21262554						
L861900-02	SS	09/19/2016 1010	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262555 21262555						
L861900-03	SS	09/21/2016 1015	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262556 21262556						
L861900-04	SS	09/21/2016 1045	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262557 21262557						
L861900-05	SS	09/22/2016 1115	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262558 21262558						
L861900-06	SS	09/22/2016 1625	Fractional Organic Carbo	FOC SUB	Walkley Black	DQO QCIII data package
21262559 21262559						

blank T8
1.7°C (w) Custody seals

Relinquished by 900 Date: 10/27/16
Received by : RTBell Date: 10/4/16 - 0800
Relinquished by _____ Date: _____
Received by : _____ Date: _____

Page : 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L891420

For: CH2MHILL - Montgomery, AL
MGM DEAP Soil Vapor

L891420

Lab SampleID.	Client ID
L891420-01	EB01-0217
L891420-02	AB01-0217
L891420-03	BSW-0217
L891420-04	FD01-0217
L891420-05	TRIP BLANK

ESC LAB SCIENCES
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12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L891420

For: CH2MHILL - Montgomery, AL
Project: MGM DEAP Soil Vapor
March 14, 2017

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Samples L891420-01, -02, -03, and -05 were analyzed in analytical batch WG954458. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L891420-04 was analyzed in analytical batch WG955454. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG954458 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Precision for batch WG955454 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument VOCMS30 was calibrated on 2/21/2017. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS8 was calibrated on 1/3/2017. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were within method limits for all samples.

Internal Standards

The internal standard responses and retention times were within method limits for all samples and quality control samples.

Nancy F. McLain
ESC Representative
ESC Lab Sciences

ANALYTICAL REPORT

March 13, 2017

CH2MHILL - Montgomery, AL

Sample Delivery Group:	L891420
Samples Received:	02/21/2017
Project Number:	
Description:	MGM DEAP GW

Report To:

Ms. Kaye Walker
4121 Carmichael Rd, Suite 400
Montgomery, AL 36106

Entire Report Reviewed By:

Craig Cothron
Technical Service Representative

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.esclabsciences.com

EB01-0217 L891420-01 GW

Collected by: Jestina Hansen
Collected date/time: 02/20/17 10:10
Received date/time: 02/21/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG954458	1	02/24/17 21:53	02/24/17 21:53	BMB

AB01-0217 L891420-02 GW

Collected by: Jestina Hansen
Collected date/time: 02/20/17 10:15
Received date/time: 02/21/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG954458	1	02/24/17 22:15	02/24/17 22:15	BMB

BSW-0217 L891420-03 GW

Collected by: Jestina Hansen
Collected date/time: 02/20/17 10:25
Received date/time: 02/21/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG954458	1	02/24/17 22:38	02/24/17 22:38	BMB

FD01-0217 L891420-04 GW

Collected by: Jestina Hansen
Collected date/time: 02/20/17 10:30
Received date/time: 02/21/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG955454	1	02/25/17 01:22	02/25/17 01:22	ACG

TRIP BLANK L891420-05 GW

Collected by: Jestina Hansen
Collected date/time: 02/20/17 00:00
Received date/time: 02/21/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG954458	1	02/24/17 14:54	02/24/17 14:54	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,2-Dichloroethene	U		0.260	1.00	1	02/24/2017 21:53	WG954458
trans-1,2-Dichloroethene	U		0.396	1.00	1	02/24/2017 21:53	WG954458
Tetrachloroethene	U		0.372	1.00	1	02/24/2017 21:53	WG954458
Trichloroethene	U		0.398	1.00	1	02/24/2017 21:53	WG954458
Vinyl chloride	U		0.259	1.00	1	02/24/2017 21:53	WG954458
(S) Toluene-d8	*97.8*			*80.0-120*		*02/24/2017 21:53*	WG954458
(S) Dibromofluoromethane	*106*			*76.0-123*		*02/24/2017 21:53*	WG954458
(S) 4-Bromofluorobenzene	*96.9*			*80.0-120*		*02/24/2017 21:53*	WG954458

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,2-Dichloroethene	U		0.260	1.00	1	02/24/2017 22:15	WG954458
trans-1,2-Dichloroethene	U		0.396	1.00	1	02/24/2017 22:15	WG954458
Tetrachloroethene	U		0.372	1.00	1	02/24/2017 22:15	WG954458
Trichloroethene	U		0.398	1.00	1	02/24/2017 22:15	WG954458
Vinyl chloride	U		0.259	1.00	1	02/24/2017 22:15	WG954458
(S) Toluene-d8	*97.4*			*80.0-120*		*02/24/2017 22:15*	WG954458
(S) Dibromofluoromethane	*104*			*76.0-123*		*02/24/2017 22:15*	WG954458
(S) 4-Bromofluorobenzene	*96.1*			*80.0-120*		*02/24/2017 22:15*	WG954458

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,2-Dichloroethene	U		0.260	1.00	1	02/24/2017 22:38	WG954458
trans-1,2-Dichloroethene	U		0.396	1.00	1	02/24/2017 22:38	WG954458
Tetrachloroethene	U		0.372	1.00	1	02/24/2017 22:38	WG954458
Trichloroethene	U		0.398	1.00	1	02/24/2017 22:38	WG954458
Vinyl chloride	U		0.259	1.00	1	02/24/2017 22:38	WG954458
(S) Toluene-d8	*97.8*			*80.0-120*		*02/24/2017 22:38*	WG954458
(S) Dibromofluoromethane	*105*			*76.0-123*		*02/24/2017 22:38*	WG954458
(S) 4-Bromofluorobenzene	*94.3*			*80.0-120*		*02/24/2017 22:38*	WG954458

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,2-Dichloroethene	U		0.260	1.00	1	02/25/2017 01:22	WG955454
trans-1,2-Dichloroethene	U		0.396	1.00	1	02/25/2017 01:22	WG955454
Tetrachloroethene	U		0.372	1.00	1	02/25/2017 01:22	WG955454
Trichloroethene	U		0.398	1.00	1	02/25/2017 01:22	WG955454
Vinyl chloride	U		0.259	1.00	1	02/25/2017 01:22	WG955454
(S) Toluene-d8	*101*			*80.0-120*		*02/25/2017 01:22*	WG955454
(S) Dibromofluoromethane	*94.7*			*76.0-123*		*02/25/2017 01:22*	WG955454
(S) 4-Bromofluorobenzene	*99.3*			*80.0-120*		*02/25/2017 01:22*	WG955454

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,2-Dichloroethene	U		0.260	1.00	1	02/24/2017 14:54	WG954458
trans-1,2-Dichloroethene	U		0.396	1.00	1	02/24/2017 14:54	WG954458
Tetrachloroethene	U		0.372	1.00	1	02/24/2017 14:54	WG954458
Trichloroethene	U		0.398	1.00	1	02/24/2017 14:54	WG954458
Vinyl chloride	U		0.259	1.00	1	02/24/2017 14:54	WG954458
(S) Toluene-d8	*96.9*			*80.0-120*		*02/24/2017 14:54*	WG954458
(S) Dibromofluoromethane	*105*			*76.0-123*		*02/24/2017 14:54*	WG954458
(S) 4-Bromofluorobenzene	*95.0*			*80.0-120*		*02/24/2017 14:54*	WG954458

Method Blank (MB)

(MB) R3199293-3 02/24/17 13:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
Tetrachloroethene	U		0.372	1.00
Trichloroethene	U		0.398	1.00
Vinyl chloride	U		0.259	1.00
(S) Toluene-d8	*97.2*			*80.0-120*
(S) Dibromofluoromethane	*104*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.0*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3199293-1 02/24/17 11:39 • (LCSD) R3199293-2 02/24/17 12:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	22.8	23.3	91.4	93.4	73.0-120			2.18	20
trans-1,2-Dichloroethene	25.0	23.5	24.3	94.1	97.3	71.0-121			3.32	20
Tetrachloroethene	25.0	25.9	26.2	104	105	70.0-127			1.11	20
Trichloroethene	25.0	24.1	24.8	96.4	99.3	78.0-120			2.93	20
Vinyl chloride	25.0	26.4	27.4	105	110	64.0-133			3.99	20
(S) Toluene-d8				*100*	*99.6*	*80.0-120*				
(S) Dibromofluoromethane				*101*	*102*	*76.0-123*				
(S) 4-Bromofluorobenzene				*101*	*99.6*	*80.0-120*				

Method Blank (MB)

(MB) R3199676-3 02/24/17 22:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
Tetrachloroethene	U		0.372	1.00
Trichloroethene	U		0.398	1.00
Vinyl chloride	U		0.259	1.00
(S) Toluene-d8	*103*			*80.0-120*
(S) Dibromofluoromethane	*96.3*			*76.0-123*
(S) 4-Bromofluorobenzene	*101*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3199676-1 02/24/17 21:32 • (LCSD) R3199676-2 02/24/17 21:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	27.6	27.3	110	109	73.0-120			1.03	20
trans-1,2-Dichloroethene	25.0	26.9	27.2	107	109	71.0-121			1.42	20
Tetrachloroethene	25.0	26.5	28.4	106	114	70.0-127			6.92	20
Trichloroethene	25.0	25.9	26.5	104	106	78.0-120			2.21	20
Vinyl chloride	25.0	28.6	28.5	114	114	64.0-133			0.440	20
(S) Toluene-d8				*101*	*105*	*80.0-120*				
(S) Dibromofluoromethane				*100*	*97.2*	*76.0-123*				
(S) 4-Bromofluorobenzene				*96.4*	*101*	*80.0-120*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

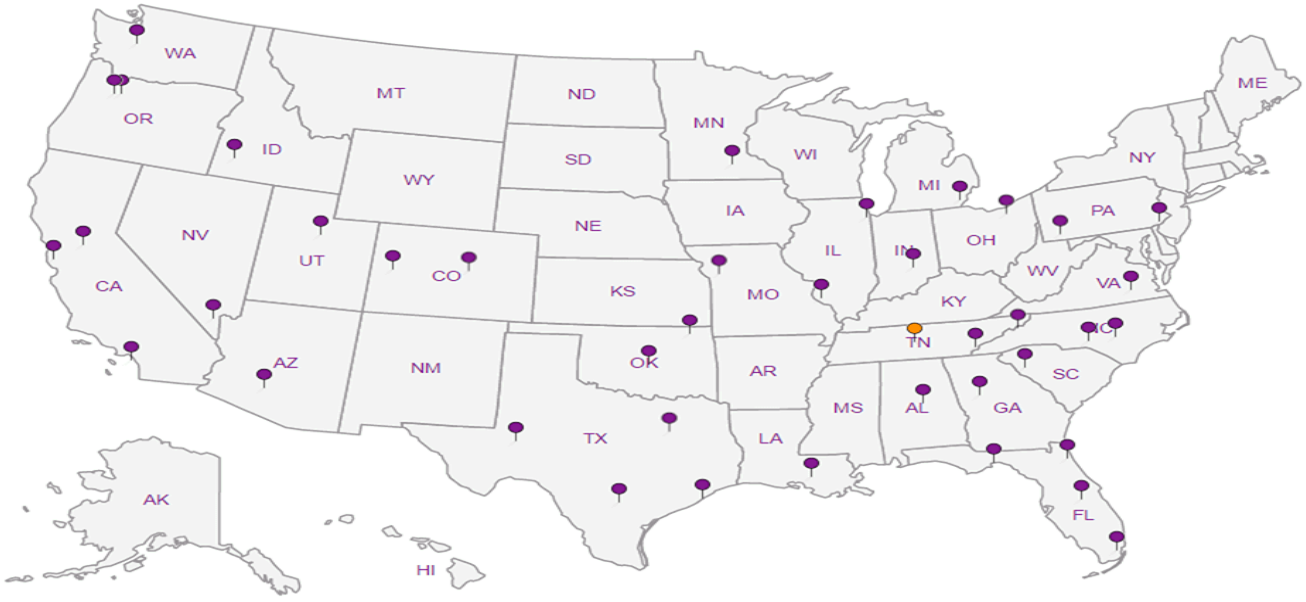
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



CH2MHILL - Montgomery, AL

4121 Carmichael Rd, Suite 400
Montgomery, AL 36106

Billing Information:
Ms. Kaye Walker
4121 Carmichael Rd., Ste. 400
Montgomery, AL 36106

Pres Chk

Report to: Ms. Kaye Walker

Email To: kaye.walker@ch2m.com

Project Description: MGM DEAP Soil Vapor

City/State Collected:

Phone: 334-215-9058
Fax:

Client Project #

Lab Project # CH2MMAL-DEAP

Collected by (print): Jestina Hansen

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
EB01-0217	G	GW	—	2/20/17	1010	2	X			01
AB01-0217	G	GW	—	2/20/17	1015	2	X			02
BSW-0217	G	GW	—	2/20/17	1025	2	X			03
FD01-0217	G	GW	—	2/20/17	1030	2	X			04
		GW				2	X			
		GW				2	X			
		GW								
TRIP BLANK	G	GW		2/20/17		1		X		05

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 891420

J057

Acctnum: CH2MMAL
Template: T120478
Prelogin: P588270
TSR: 034 - Craig Cothron
PB: 2-13-17

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air
GW - Groundwater
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: PO # 10381-7-114258

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 7176 9004 4560

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	2/20/17	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2 °C Bottles Received: 8
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 2-21-17 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: CF / OR

Volatile Organic Compounds by Method 8260B

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Quality Control Summary
SDG: L891420

Volatile Organic Compounds by Method 8260B
CH2MHILL - Montgomery, AL

Project: MGM DEAP Soil Vapor

Login No: L891420

Lab SampleID.	Client ID
L891420-01	EB01-0217
L891420-02	AB01-0217
L891420-03	BSW-0217
L891420-04	FD01-0217
L891420-05	TRIP BLANK

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor
Collection Date: 2/20/2017
Analysis Date: 2/24/2017
Instrument ID: VOCMS30
Sample Numbers: L891420-01, -02, -03, -05

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG954458
Analyst: 073

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS30	LCS WG954458	LCS WG954458	0224_04.D	2/24/2017	11:39 AM
VOCMS30	LCSD WG954458	LCSD WG954458	0224_05.D	2/24/2017	12:02 PM
VOCMS30	Blank WG954458	Blank WG954458	0224_08.D	2/24/2017	1:10 PM
VOCMS30	TRIP BLANK	L891420-05	0224_12.D	2/24/2017	2:54 PM
VOCMS30	EB01-0217	L891420-01	0224_30.D	2/24/2017	9:53 PM
VOCMS30	AB01-0217	L891420-02	0224_31.D	2/24/2017	10:15 PM
VOCMS30	BSW-0217	L891420-03	0224_32.D	2/24/2017	10:38 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by Method 8260B		
Project No:		Matrix:	Water - mg/L
Project:	MGM DEAP Soil Vapor	EPA ID:	TN00003
Collection Date:	2/20/2017	**Analytic Batch:**	**WG955454**
Analysis Date:	2/24/2017	Analyst:	156
Instrument ID:	VOCMS8		
Sample Numbers:	L891420-04		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS8	LCS WG955454	LCS WG955454	0224_37.D	2/24/2017	9:32 PM
VOCMS8	LCSD WG955454	LCSD WG955454	0224_38.D	2/24/2017	9:54 PM
VOCMS8	Blank WG955454	Blank WG955454	0224_40.D	2/24/2017	10:40 PM
VOCMS8	FD01-0217	L891420-04	0224_45.D	2/25/2017	1:22 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor
Collection Date: 2/20/2017
Analysis Date: 2/24/2017
Instrument ID: VOCMS30
Sample Numbers: L891420-01, -02, -03, -05

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG954458
Analyst: 073

Internal Standard Response and Retention Time Summary

File ID: 0224_02
Analyzed: 02/24/17 105400

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	469058	4.28	760318	4.60	120891	5.76	305449	8.14
Upper Limit	938000	4.78	1520000	5.10	242000	6.26	611000	8.64
Lower Limit	235000	3.78	380000	4.10	60400	5.26	153000	7.64
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L891420-05	498012	4.28	796620	4.60	125561	5.76	326150	8.14
L891420-01	465636	4.28	761605	4.60	117133	5.76	310076	8.14
L891420-02	477151	4.28	773281	4.60	119830	5.76	314238	8.14
L891420-03	481479	4.28	772340	4.60	121486	5.76	310111	8.14
LCSD WG954458	462014	4.28	745981	4.60	117439	5.76	299943	8.14
LCS WG954458	476236	4.28	776834	4.60	120323	5.76	313878	8.14
BLANK WG954458	488841	4.28	784996	4.60	120885	5.76	315941	8.14

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test:	Volatile Organic Compounds by Method 8260B		
Project No:		Matrix:	Water - mg/L
Project:	MGM DEAP Soil Vapor	EPA ID:	TN00003
Collection Date:	2/20/2017	**Analytic Batch:**	**WG955454**
Analysis Date:	2/24/2017	Analyst:	156
Instrument ID:	VOCMS8		
Sample Numbers:	L891420-04		

Internal Standard Response and Retention Time Summary

File ID: 0224_36
Analyzed: 02/24/17 202800

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	653320	4.54	1121055	4.88	217605	6.06	485314	8.46
Upper Limit	1310000	5.04	2240000	5.38	435000	6.56	971000	8.96
Lower Limit	327000	4.04	561000	4.38	109000	5.56	243000	7.96
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L891420-04	636723	4.54	1092877	4.87	205270	6.06	424551	8.45
LCSD WG955454	623043	4.54	1107397	4.88	205952	6.06	487771	8.46
LCS WG955454	630399	4.54	1145180	4.88	220477	6.06	499261	8.46
BLANK WG955454	622472	4.54	1114702	4.88	204286	6.06	444279	8.46

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor
Collection Date: 2/20/2017
Analysis Date: 2/24/2017
Instrument ID: VOCMS30
Sample Numbers: L891420-01, -02, -03, -05

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG954458
Analyst: 073

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L891420-01	VOCMS30	0224_30	0.0388	96.9	0.0422	106	0.0391	97.8		
L891420-02	VOCMS30	0224_31	0.0384	96.1	0.0417	104	0.0390	97.4		
L891420-03	VOCMS30	0224_32	0.0377	94.3	0.0418	105	0.0391	97.8		
L891420-05	VOCMS30	0224_12	0.0380	95.0	0.0422	105	0.0387	96.9		
LCS WG954458	VOCMS30	0224_04	0.0403	101	0.0405	101	0.0401	100	0.0390	97.6
LCSD WG954458	VOCMS30	0224_05	0.0398	99.6	0.0409	102	0.0398	99.6	0.0395	98.8
BLANK WG954458	VOCMS30	0224_08	0.0392	98.0	0.0415	104	0.0389	97.2	0.0394	98.4

BFB --4-BROMOFLUOROBENZENE — True Value: 0.04 ppm — Limits: 80 - 120

DFM --DIBROMOFLUOROMETHANE — True Value: 0.04 ppm — Limits: 76 - 123

TD8 --TOLUENE-D8 — True Value: 0.04 ppm — Limits: 80 - 120

TFT --A,A,A-TRIFLUOROTOLUENE — True Value: 0.04 ppm — Limits: 80 - 120

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor
Collection Date: 2/20/2017
Analysis Date: 2/24/2017
Instrument ID: VOCMS8
Sample Numbers: L891420-04

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG955454
Analyst: 156

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L891420-04	VOCMS8	0224_45	0.0397	99.3	0.0379	94.7	0.0403	101		
LCS WG955454	VOCMS8	0224_37	0.0386	96.4	0.0400	100	0.0403	101	0.0425	106
LCSD WG955454	VOCMS8	0224_38	0.0402	101	0.0389	97.2	0.0419	105	0.0422	106
BLANK WG955454	VOCMS8	0224_40	0.0403	101	0.0385	96.3	0.0414	103	0.0420	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 76 - 123
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 80 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 80 - 120

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor EPA ID: TN00003
Collection Date: 2/20/2017
Instrument ID: VOCMS30

Instrument Performance Summary

FileID: 0224_02.D Date: 2/24/2017 Time: 10:54 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	18.7
75	30 - 60% of mass 95	49.1
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.9
173	0 - 2% of mass 174	0.7
174	50 - 150% of mass 95	74.6
175	5 - 9% of mass 174	7.6
176	95 - 101% of mass 174	99.3
177	5 - 9% of mass 176	6.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG954458	LCS WG954458	0224_04.D	2/24/2017	11:39 AM
LCSD WG954458	LCSD WG954458	0224_05.D	2/24/2017	12:02 PM
Blank WG954458	Blank WG954458	0224_08.D	2/24/2017	1:10 PM
TRIP BLANK	L891420-05	0224_12.D	2/24/2017	2:54 PM
EB01-0217	L891420-01	0224_30.D	2/24/2017	9:53 PM
AB01-0217	L891420-02	0224_31.D	2/24/2017	10:15 PM
BSW-0217	L891420-03	0224_32.D	2/24/2017	10:38 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor EPA ID: TN00003
Collection Date: 2/20/2017
Instrument ID: VOCMS8

Instrument Performance Summary

FileID: 0224_36.D Date: 2/24/2017 Time: 8:28 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	25
75	30 - 60% of mass 95	56
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.8
173	0 - 2% of mass 174	0.4
174	50 - 150% of mass 95	67.2
175	5 - 9% of mass 174	8.1
176	95 - 101% of mass 174	100.4
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG955454	LCS WG955454	0224_37.D	2/24/2017	9:32 PM
LCSD WG955454	LCSD WG955454	0224_38.D	2/24/2017	9:54 PM
Blank WG955454	Blank WG955454	0224_40.D	2/24/2017	10:40 PM
FD01-0217	L891420-04	0224_45.D	2/25/2017	1:22 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS8
Method Name : V808A03Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500			3058.217	27.24
LRH (C5-C8)										0.000000	0.00
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.384232	11.01
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.610	0.620	0.614	0.619	0.594	0.587478	6.02
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.750	0.753	0.715	0.730	0.765	0.789864	11.77
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.649012	14.24
1,3-BUTADIENE			0.600	0.486	0.523	0.509	0.514	0.501	0.489	0.519441	7.89
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.514109	11.61
CHLOROETHANE	0.315	0.420	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.421628	9.87
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.700	0.653	0.689	0.692	0.654910	7.28
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1.000	0.906	0.938	0.956	0.973720	7.09
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.406407	5.77
ACROLEIN					0.005	0.006	0.008	0.008	0.009	0.007247	24.93
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.380	0.381	0.367586	7.31
1,1,2-TRICHLOROTRIFLUOROETHANE		0.350	0.351	0.331	0.391	0.392	0.390	0.392	0.385	0.378183	6.61
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.180	0.186	0.174143	12.15
IODOMETHANE	0.706	0.550	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.520566	13.21
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.324014	6.54
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.270	0.279	0.273	0.278	0.265	0.262066	5.14
METHYLENE CHLORIDE	0.420	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.445209	4.66
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.416278	6.80
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.197031	6.73
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.482263	5.02
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.404827	10.40
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.430	1.453	1.449	1.458	1.430425	3.06
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.889235	4.86
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.990	1.020	1.216	1.040097	7.59
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.850	1.843	1.860	1.836	1.797554	5.22

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS8
Method Name : V808A03Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.557040	7.12
2,2-DICHLOROPROPANE	0.584	0.715	0.730	0.684	0.747	0.759	0.742	0.749	0.748	0.724335	7.13
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.430	0.433	0.457	0.467	0.453	0.456	0.450	0.451070	4.37
2-BUTANONE (MEK)				0.197	0.299	0.288	0.300	0.290	0.286	0.283507	13.02
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.240	0.225	0.214	0.210	0.211686	8.36
TETRAHYDROFURAN			0.342	0.327	0.310	0.288	0.286	0.251	0.249	0.282652	13.36
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.830432	4.70
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.776144	6.93
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.540	0.534	0.539320	1.26
1,1,1-TRICHLOROETHANE	0.520	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.676721	9.42
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.620	0.614	0.590521	6.13
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.661190	8.01
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.854052	6.13
n-Heptane		0.433	0.414	0.403	0.474	0.480	0.479	0.483	0.483	0.463361	7.23
BENZENE	1.930	1.857	1.871	1.830	1.966	1.987	1.990	1.999	1.972	1.956967	4.08
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.492639	5.25
1,2-DICHLOROETHANE	0.608	0.570	0.618	0.597	0.660	0.664	0.673	0.674	0.679	0.651345	7.26
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.070	0.069	0.071	0.063505	13.85
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.228777	3.89
METHYL CYCLOHEXANE			0.998	0.694	0.610	0.560	0.518	0.514	0.513	0.605783	26.27
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.196255	4.49
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.136757	5.90
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.340	0.347074	7.09
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.490	0.488	0.483	0.494972	4.35
2-CHLOROETHYL VINYL ETHER	0.160	0.155	0.160	0.158	0.178	0.170	0.178	0.180	0.182	0.173845	8.61
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.419875	3.58
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.283887	8.38
TOLUENE-D8	1.284	1.303	1.276	1.244	1.270	1.253	1.219	1.229	1.197	1.237561	3.88
TOLUENE	1.020	1.112	1.063	1.071	1.125	1.093	1.091	1.110	1.113	1.093770	2.91

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS8
Method Name : V808A03Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.390576	7.10
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.070994	7.65
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.892753	4.36
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.130	2.118	2.155	2.161	2.164	2.093765	5.90
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.562980	13.46
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.140	1.165	1.087064	10.03
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.110	1.083687	4.60
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.326069	8.61
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.027259	9.69
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	1.964581	8.36
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.430	2.490	2.481	2.569	2.427013	8.21
O-XYLENE	1.830	2.113	2.256	2.130	2.359	2.300	2.342	2.363	2.419	2.278923	8.45
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	3.751914	12.52
BROMOFORM		0.472	0.661	0.609	0.660	0.664	0.712	0.719	0.758	0.681168	13.65
ISOPROPYLBENZENE	4.989	5.877	6.109	6.220	6.444	6.386	6.565	6.541	6.751	6.324078	8.51
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.454168	1.69
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	2.887229	5.61
1,1,2,2-TETRACHLOROETHANE	1.360	1.389	1.540	1.422	1.581	1.527	1.631	1.633	1.684	1.558448	7.83
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.380	0.461	0.427	0.456	0.463	0.478	0.435733	12.70
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.547303	15.07
N-PROPYLBENZENE	6.220	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	7.649356	8.21
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.610	6.092845	9.89
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.040075	8.73
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.650	4.781	4.550235	6.86
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.336842	7.60
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.356542	9.14
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.148082	7.14
SEC-BUTYLBENZENE	4.510	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.270	6.653287	12.07
1,3-DICHLOROBENZENE	2.136	2.127	2.270	2.101	2.385	2.405	2.463	2.519	2.546	2.381193	8.24

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS8
Method Name : V808A03Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.740	5.811	5.336526	13.47
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	6.952399	8.58
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.090	1.141	1.109	1.134	1.104	1.109064	2.93
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.374193	4.16
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.954098	7.48
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.252300	12.57
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.110	0.106	0.126	0.127	0.127	0.116312	11.22
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.580	0.600	0.592	0.609	0.558496	10.49
HEXACHLORO-1,3-BUTADIENE		0.200	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.247875	10.14
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.662000	8.62
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.515450	11.98
1-METHYLNAPHTHALENE		0.583	0.690	0.648	0.775	0.792	0.814	0.840	0.785	0.747323	10.82
2-METHYLNAPHTHALENE	0.560	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.710685	8.65
ETHANOL										0.005032	6.15
BROMOETHANE										0.241586	13.72
2-PROPANOL										0.031223	3.97
ACETONITRILE										0.075216	3.63
TERT-BUTYL ALCOHOL										0.076150	6.78
CHLOROPRENE										0.762365	3.21
PROPIONITRILE										0.091598	3.66
ETHYL ACETATE										0.576745	3.68
METHACRYLONITRILE										0.206402	3.62
TERT-BUTYL FORMATE										0.420214	3.16
ISOBUTANOL										0.030156	4.88
N-BUTANOL										0.007671	2.87
2-NITROPROPANE										0.090721	3.65
METHYL METHACRYLATE										0.312743	1.99
1,4-DIOXANE										0.002131	4.66
N-OCTANE										0.198790	2.59

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS8
Method Name : V808A03Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
3,3-DIMETHYL-1-BUTANOL										0.013749	33.71
ETHYL METHACRYLATE										1.625320	6.59
CIS-1,4-DICHLORO-2-BUTENE										0.604222	5.25
CYCLOHEXANONE										0.045415	9.55
PENTACHLOROETHANE										0.695766	5.67
HEXACHLOROETHANE										0.855401	6.22

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS30 Method Name : V830B21Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630			1478.319	20.76
LRH (C5-C8)										0.000000	0.00
PROPENE		0.614	0.589	0.605	0.460	0.515	0.473	0.483	0.467	0.512576	12.66
DICHLORODIFLUOROMETHANE			0.477	0.590	0.508	0.605	0.576	0.589	0.566	0.566651	8.67
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.747887	13.79
VINYL CHLORIDE		0.542	0.610	0.700	0.606	0.658	0.639	0.649	0.645	0.632937	6.51
1,3-BUTADIENE		0.605	0.555	0.562	0.470	0.511	0.461	0.474	0.455	0.496818	11.81
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.219743	7.12
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.356512	11.11
TRICHLOROFLUOROMETHANE		0.659	0.733	0.820	0.729	0.837	0.786	0.816	0.806	0.778240	7.01
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.020	1.016047	2.74
ETHYL ETHER	0.421	0.388	0.375	0.420	0.376	0.399	0.393	0.411	0.413	0.400988	4.04
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.045908	31.46
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.497490	4.88
1,1,2-TRICHLOROTRIFLUOROETHANE	0.299	0.330	0.378	0.509	0.418	0.499	0.473	0.493	0.470	0.462675	15.26
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.194623	10.85
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.651316	8.45
CARBON DISULFIDE		1.680	1.709	1.775	1.525	1.628	1.507	1.550	1.559	1.603173	5.62
ALLYL CHLORIDE	0.320	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.270868	10.48
METHYLENE CHLORIDE		0.668	0.660	0.635	0.500	0.487	0.482	0.496	0.505	0.543385	14.20
METHYL ACETATE	0.401	0.404	0.407	0.410	0.385	0.386	0.369	0.384	0.385	0.386182	4.80
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.213314	6.09
n-HEXANE	0.494	0.422	0.405	0.450	0.353	0.399	0.376	0.389	0.361	0.396001	11.37
TRANS-1,2-DICHLOROETHENE		0.500	0.567	0.573	0.493	0.517	0.496	0.501	0.500	0.515618	5.71
METHYL TERT-BUTYL ETHER	1.510	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.440	1.475913	6.46
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.920	0.966	0.940	0.953	0.953	0.967367	8.45
VINYL ACETATE	0.841	0.868	0.856	0.910	0.840	0.830	0.802	0.827	0.817	0.834904	4.12
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.510045	5.08

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS30
Method Name : V830B21Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL TERT-BUTYL ETHER	1.560	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.407313	5.52
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.860	0.857	0.872083	4.17
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.560	0.569	0.596062	15.04
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.260	0.224	0.254	0.234	0.254373	11.40
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.276515	12.20
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.172221	10.19
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.963527	9.05
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.760	0.738	0.735865	7.28
DIBROMOFLUOROMETHANE	0.501	0.500	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.497476	0.99
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.822773	3.35
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.710	0.757	0.713	0.739	0.744	0.755118	5.10
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.717812	5.67
2,2,4-TRIMETHYLPENTANE	1.054	1.000	1.130	1.347	1.153	1.360	1.304	1.362	1.299	1.235783	10.39
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.350933	11.75
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	2.017942	6.25
TERT-AMYL METHYL ETHER	2.100	1.382	1.563	1.569	1.351	1.390	1.380	1.422	1.423	1.489714	14.42
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.630	0.664	0.656	0.651	0.656	0.662034	4.01
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.050	0.052	0.052	0.054648	13.51
TRICHLOROETHENE	0.413	0.294	0.340	0.351	0.323	0.342	0.336	0.338	0.348	0.342965	8.20
METHYL CYCLOHEXANE			0.940	0.771	0.555	0.564	0.526	0.528	0.508	0.599417	25.50
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.224947	5.12
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.200	0.208	0.206	0.210	0.213	0.207885	5.50
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.453704	14.17
A,A,A-TRIFLUOROTOLUENE	0.551	0.560	0.548	0.550	0.547	0.542	0.547	0.550	0.544	0.551456	1.71
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.209641	3.69
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.470	0.482	0.491	0.474033	3.34
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.306254	5.85
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.160	1.183	1.201	1.210	1.190534	3.14
TOLUENE	1.673	1.365	1.330	1.482	1.267	1.337	1.310	1.316	1.333	1.366901	8.40

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Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS30
Method Name : V830B21Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.430	0.438	0.444	0.439974	6.20
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.715602	10.48
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.600	1.542	1.548	1.506	1.537654	7.93
1,3-DICHLOROPROPANE	2.870	2.594	2.828	3.039	2.729	2.813	2.837	2.840	2.873	2.799217	4.39
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.772907	6.03
CHLORODIBROMOMETHANE	2.010	1.966	1.761	1.911	1.810	1.859	1.876	1.971	2.018	1.910171	4.24
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.720	1.816	1.788	1.887	1.908	1.826598	4.25
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.957620	7.06
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.650	1.652	1.598	1.633	1.655	1.728164	9.16
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3.000	2.899	2.927	2.871	2.921042	7.94
M&P-XYLENE	3.690	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.460001	7.14
O-XYLENE	3.588	3.387	3.503	3.670	3.330	3.505	3.377	3.482	3.490	3.439908	4.04
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.200641	4.88
BROMOFORM	1.353	1.116	1.231	1.310	1.175	1.250	1.242	1.295	1.341	1.258988	5.55
ISOPROPYLBENZENE	10.70	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.98208	8.68
4-BROMOFLUOROBENZENE	2.703	2.766	2.720	2.720	2.779	2.719	2.775	2.830	2.812	2.756589	1.69
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.450	3.416	3.578084	14.14
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.320	2.459514	14.94
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.710263	12.88
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.689778	6.35
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	10.05627	12.68
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	8.311678	8.16
2-CHLOROTOLUENE	7.696	5.840	6.593	6.938	6.231	6.313	6.039	6.049	5.984	6.223690	10.87
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.960395	8.20
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.110	6.680	6.805	6.815	6.882697	9.30
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	6.074693	11.12
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.775151	6.00
SEC-BUTYLBENZENE	12.80	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	9.09780	14.54
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.660	3.585539	5.06

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Est. 1970

Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS30
Method Name : V830B21Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.830	7.133	7.387	7.088	7.314	7.256	7.256400	10.38
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	7.515079	10.07
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.300	1.269	1.282	1.290	1.280479	3.66
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.390	2.720	2.271	2.478	2.384	2.443	2.418	2.435309	6.41
1,2-DICHLOROBENZENE	1.287	1.130	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.269318	5.07
N-BUTYLBENZENE	3.384	2.308	2.400	2.675	2.330	2.531	2.480	2.529	2.519	2.541758	11.76
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.200	0.202	0.214	0.218	0.222	0.235	0.212353	9.43
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.756873	3.73
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.323255	6.02
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.750	2.720	2.556764	4.92
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.760	0.702	0.738	0.726	0.775	0.752	0.733411	5.00
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.050	1.148	1.141	1.064832	7.47
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	0.995022	6.82
ETHANOL										0.005347	4.36
BROMOETHANE										0.346495	18.14
2-PROPANOL										0.030930	3.66
ACETONITRILE										0.078429	3.41
TERT-BUTYL ALCOHOL										0.112682	6.77
CHLOROPRENE										0.777201	2.68
PROPIONITRILE										0.090456	2.88
ETHYL ACETATE										0.561877	3.49
METHACRYLONITRILE										0.211750	2.44
TERT-BUTYL FORMATE										0.267924	7.47
ISOBUTANOL										0.023925	4.21
N-BUTANOL										0.007754	5.87
2-NITROPROPANE										0.098042	3.91
METHYL METHACRYLATE										0.295954	3.11
1,4-DIOXANE										0.002993	5.53
N-OCTANE										0.206714	2.84

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Est. 1970

Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project: MGM DEAP Soil Vapor
Instrument ID: VOCMS30 Method Name : V830B21Q.M

Relative Response Factor Summary

Compound Name	Level 0.25	Level 0.5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
3,3-DIMETHYL-1-BUTANOL										0.027867	3.26
ETHYL METHACRYLATE										2.210666	1.42
CIS-1,4-DICHLORO-2-BUTENE										0.755644	4.72
CYCLOHEXANONE										0.087099	10.47
PENTACHLOROETHANE										1.039942	2.37
HEXACHLOROETHANE										1.214699	6.15

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Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor EPA ID: TN00003
Collection Date: 2/20/2017
Instrument ID: VOCMS30

Method Name : V830B21Q.M
FileName : 0224_02.D

Date : 2/24/2017
Time : 10:54 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	0.7479	0.7695	2.89	>0.1
Vinyl chloride	0.6329	0.7235	14.3	
1,1-Dichloroethene	0.4975	0.5370	7.95	
trans-1,2-Dichloroethene	0.5156	0.5297	2.73	
1,1-Dichloroethane	0.9674	0.9566	1.11	>0.1
cis-1,2-Dichloroethene	0.5961	0.5763	3.32	
Chloroform	0.9635	0.9341	3.05	
Trichloroethene	0.3430	0.3483	1.56	
1,2-Dichloropropane	0.2249	0.2186	2.83	
Toluene	1.3669	1.3422	1.81	
Tetrachloroethene	1.5377	1.7279	12.4	
Chlorobenzene	4.9576	5.1941	4.77	>0.3
Ethylbenzene	2.9210	3.1309	7.18	
Bromoform	1.2590	1.2970	3.02	>0.1
1,1,2,2-Tetrachloroethane	2.4595	2.2930	6.77	>0.3

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L891420
CH2MHILL - Montgomery, AL

Test: Volatile Organic Compounds by Method 8260B
Project No:
Project: MGM DEAP Soil Vapor EPA ID: TN00003
Collection Date: 2/20/2017
Instrument ID: VOCMS8

Method Name : V808A03Q.M
FileName : 0224_36.D

Date : 2/24/2017
Time : 8:28 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	0.7899	0.8183	3.6	>0.1
Vinyl chloride	0.6490	0.6579	1.37	
1,1-Dichloroethene	0.3676	0.3588	2.4	
trans-1,2-Dichloroethene	0.4048	0.4111	1.56	
1,1-Dichloroethane	0.8892	0.9169	3.11	>0.1
cis-1,2-Dichloroethene	0.4511	0.4489	0.48	
Chloroform	0.8304	0.8429	1.5	
Trichloroethene	0.2288	0.2359	3.1	
1,2-Dichloropropane	0.1963	0.2215	12.9	
Toluene	1.0938	1.1800	7.88	
Tetrachloroethene	0.8928	0.9408	5.38	
Chlorobenzene	3.3261	3.4976	5.16	>0.3
Ethylbenzene	1.9646	1.9864	1.11	
Bromoform	0.6812	0.6845	0.48	>0.1
1,1,2,2-Tetrachloroethane	1.5584	1.5591	0.04	>0.3

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : Jessica hawkins
Date Released : 2/24/2017 4:06:42 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0224_01	INSTBLK	V830B21Q					1	1	02/24/17 1032	"water"
2	0224_02	ICV VMS 25 PPB	V830B21Q					1	1	02/24/17 1054	"water"
3	0224_02T	ICV VMS 25 ppb	V830B21Q						1	02/24/17 1054	
4	0224_03	ICV AP9 10A PPB	V830B21Q					1	1	02/24/17 1117	"water"
5	0224_04	LCS	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1139	"water"
6	0224_05	LCSD	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1202	"water"
7	0224_06	LCSAP9	V830B21Q					1	1	02/24/17 1225	"water"
8	0224_07	INSTBLK	V830B21Q					1	1	02/24/17 1247	"water"
9	0224_08	BLANK	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1310	"water"
10	0224_09	L891200-09	V830B21Q	WG954453	V8260OXY	GW	CA	1	1	02/24/17 1346	"water"
11	0224_10	L891363-02	V830B21Q	WG954453	V8260OXY	GW	WV	1	1	02/24/17 1409	"water"
12	0224_11	INSTBLK	V830B21Q					1	1	02/24/17 1432	"water"
13	0224_12	L891420-05	V830B21Q	WG954458	V8260	GW	AL	1	1	02/24/17 1454	"water"
14	0224_13	L890880-02	V830B21Q	WG955582	V8260TCLP	TCLP	IL	1	50	02/24/17 1521	"water"
15	0224_14	L890949-01	V830B21Q	WG955582	V8260TCLP	TCLP	TN	1	50	02/24/17 1543	"water"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_02.D
Acq On : 24 Feb 2017 10:54 am
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	469058	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	760318	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	120891	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	305449	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	469802	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	760318	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	120891	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	305449	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	238299	40.8492012	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.12%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	415564	39.6453012	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.11%				
58) TOLUENE-D8	5.430	98	917737	40.5547058	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.39%				
76) 4-BROMOFLUOROBENZENE	7.297	95	326727	39.2174183	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.04%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	44598m	0.1689661	ppm		
4) PROPENE	1.640	41	165113	27.4698582	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	229467	34.5332768	ppb		99
6) CHLOROMETHANE	1.865	50	225585	25.7221762	ppb		100
7) VINYL CHLORIDE	1.913	62	212106	28.5776326	ppb		100
8) 1,3-BUTADIENE	1.932	39	158408	27.1902475	ppb		98
9) BROMOMETHANE	2.169	94	82264	31.9247797	ppb		97
10) CHLOROETHANE	2.254	64	116262	27.8097836	ppb		98
11) TRICHLOROFLUOROMETHANE	2.358	101	276015	30.2449213	ppb		98
12) DICHLOROFLUOROMETHANE	2.394	67	315496	26.4797382	ug/l		99
13) ETHYL ETHER	2.552	59	114838	24.4223561	ppb		99
14) ACROLEIN	2.899	56	101536	185.9104287	ppb		100
15) 1,1-DICHLOROETHENE	2.698	96	157433	26.9864059	ppb		98
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	167907	30.9475437	ppb		98
17) ACETONE	3.075	43	323941	141.9398932	ppb		98
18) IODOMETHANE	2.802	142	951445	124.5733939	ppb		100
19) CARBON DISULFIDE	2.735	76	470958	25.0515844	ppb		100
20) ALLYL CHLORIDE	2.984	76	379584	119.5043410	ppb		96
21) METHYLENE CHLORIDE	3.051	84	144444	22.6686242	ppb		98
22) METHYL ACETATE	3.130	43	509571	112.5241217	ppb	#	99
23) ACRYLONITRILE	3.526	53	282342	112.8727783	ppb		100
24) n-HEXANE	3.173	56	131565	28.3320006	ppb		91
25) TRANS-1,2-DICHLOROETHENE	3.142	96	155284	25.6821989	ppb		99
26) METHYL TERT-BUTYL ETHER	3.191	73	391669	22.6303853	ppb		86
27) 1,1-DICHLOROETHANE	3.501	63	280438	24.7217434	ppb		98
28) VINYL ACETATE	3.605	43	1335401	136.3982495	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	425765	24.0443829	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.593	59	390599	23.6686690	ppb		99
31) 2,2-DICHLOROPROPANE	3.860	77	265518	25.9638766	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	168937	24.1694420	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	347502	116.4982432	ppb		99
34) BROMOCHLOROMETHANE	3.915	130	67347	20.7698573	ppb		99
35) TETRAHYDROFURAN	4.043	42	42851	21.2181323	ppb		100
36) CHLOROFORM	3.939	83	273849	24.2371022	ppb		99

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_02.D
Acq On : 24 Feb 2017 10:54 am
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	254072	29.4436897 ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	257029	26.6400773 ppb		99
40) CARBON TETRACHLORIDE	4.037	117	235295	26.5724407 ppb		100
41) 1,1-DICHLOROPROPENE	4.134	75	223669	26.5722444 ppb		99
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	482502	33.2958722 ppb		98
43) n-Heptane	4.213	71	127380	30.9535914 ppb		98
44) BENZENE	4.280	78	583255	24.6480925 ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	392354	22.4599382 ppb		99
46) 1,2-DICHLOROETHANE	4.389	62	188308	24.2561421 ppb		100
47) T-AMYL ALCOHOL	4.396	59	66373	103.5734904 ppb		94
49) TRICHLOROETHENE	4.602	130	165522	25.3904323 ppb	#	100
50) METHYL CYCLOHEXANE	4.602	83	286460	29.1278338 ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	103871	24.2928182 ppb		99
52) DIBROMOMETHANE	4.864	93	93744	23.7238564 ppb		99
53) BROMODICHLOROMETHANE	4.937	83	199508	23.1340971 ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	421415	105.7545471 ppb		100
56) CIS-1,3-DICHLOROPROPENE	5.314	75	218492	24.2488600 ppb		100
57) 4-METHYL-2-PENTANONE (...	5.673	43	666351	114.4685696 ppb		98
59) TOLUENE	5.460	91	637819	24.5485173 ppb		99
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	199074	23.8041185 ppb		99
62) 1,1,2-TRICHLOROETHANE	5.825	97	126492	24.3956612 ppb		99
63) TETRACHLOROETHENE	5.716	164	130556	28.0933941 ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	214074	25.3042468 ppb		99
65) 2-HEXANONE	6.215	58	304726	130.4513463 ppb		99
66) CHLORODIBROMOMETHANE	5.953	129	150531	26.0747291 ppb		100
67) 1,2-DIBROMOETHANE	6.123	107	138486	25.0858620 ppb		100
68) CHLOROBENZENE	6.464	112	392448	26.1923753 ppb		99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	125587	24.0450515 ppb		99
70) ETHYLBENZENE	6.452	106	236561	26.7960817 ppb		100
71) M&P-XYLENE	6.549	106	546804	52.2903380 ppb		98
72) O-XYLENE	6.859	106	271939	26.1571686 ppb		98
73) STYRENE	6.896	104	408597	25.9958672 ppb		99
74) BROMOFORM	6.938	173	97996	25.7544856 ppb		99
75) ISOPROPYLBENZENE	7.072	105	725584	26.7286491 ppb		99
77) BROMOBENZENE	7.389	77	262175	24.2441398 ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	173254	23.3077316 ppb		99
79) 1,2,3-TRICHLOROPROPANE	7.547	110	51254	23.8767015 ppb		99
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	47225	22.6531458 ppb		97
81) N-PROPYLBENZENE	7.370	91	802893	26.4172037 ppb		99
82) 4-ETHYLTOLUENE	7.449	105	657983	26.1934061 ppb		99
83) 2-CHLOROTOLUENE	7.510	91	479058	25.4686634 ppb		99
84) 4-CHLOROTOLUENE	7.632	91	454975	25.2568119 ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	539236	25.9230587 ppb		100
86) TERT-BUTYLBENZENE	7.754	119	485213	26.4285979 ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	528229	25.7970034 ppb		99
88) SEC-BUTYLBENZENE	7.894	105	717345	26.0890126 ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	286464	26.4351425 ppb		99
90) P-ISOPROPYLTOLUENE	7.991	119	583601	26.6109782 ppb		99
91) DICYCLOPENTADIENE	8.003	66	580687	25.5666947 ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	259564	26.5456424 ppb		93
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	491990	26.4559526 ppb		99
95) 1,2-DICHLOROBENZENE	8.490	146	267025	27.5488079 ppb		99
96) N-BUTYLBENZENE	8.319	91	544171	28.0364147 ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	41337	25.4918696 ppb		97
98) 1,2,4-TRICHLOROBENZENE	9.676	180	155993	26.9900217 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_02.D
Acq On : 24 Feb 2017 10:54 am
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

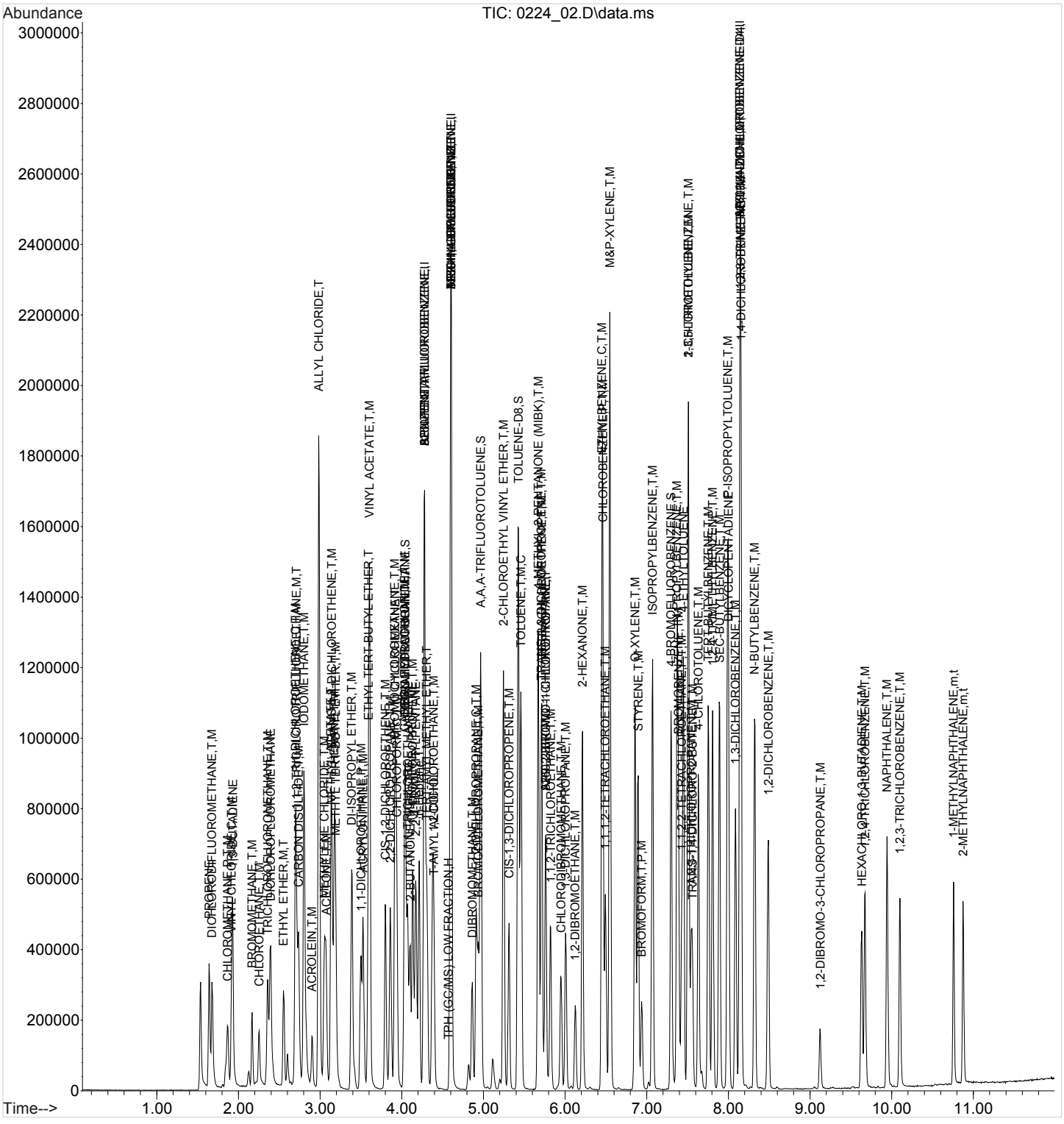
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.633	225	72427	29.3411312 ppb	96
100)	NAPHTHALENE	9.944	128	510712	26.1581354 ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	147396	26.3183935 ppb	98
102)	1-METHYLNAPHTHALENE	10.759	142	209672	25.7857956 ppb	100
103)	2-METHYLNAPHTHALENE	10.875	142	190471	25.0678709 ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_02.D
Acq On : 24 Feb 2017 10:54 am
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS30

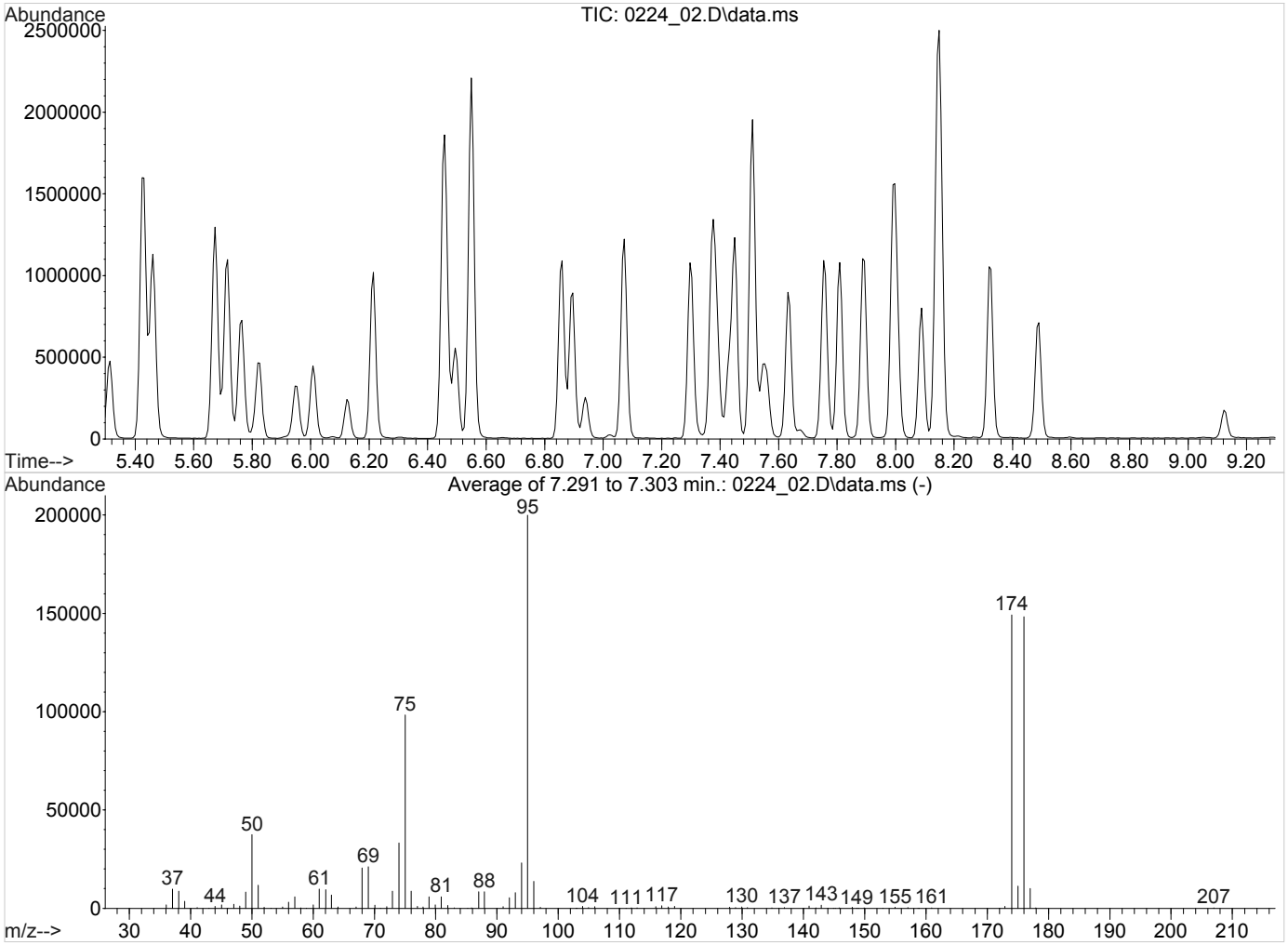
Quant Time: Feb 24 15:59:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\022417\
Data File : 0224_02.D
Acq On : 24 Feb 2017 10:54 am
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V830B21Q.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Wed Feb 22 14:00:51 2017



AutoFind: Scans 1185, 1186, 1187; Background Corrected with Scan 1179

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	37472	PASS
75	95	30	60	49.1	98272	PASS
95	95	100	100	100.0	199957	PASS
96	95	5	9	6.9	13725	PASS
173	174	0.00	2	0.7	994	PASS
174	95	50	150	74.6	149211	PASS
175	174	5	9	7.6	11335	PASS
176	174	95	101	99.3	148232	PASS
177	176	5	9	6.8	10051	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_04.D
Acq On : 24 Feb 2017 11:39 am
Operator : 605
Sample : LCS 1x WG954458
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:22 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	476236	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	776834	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	120323	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	313878	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	477569	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	776834	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	120323	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	313878	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	239675	40.4658260	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.16%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	417952	39.0253906	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 97.56%				
58) TOLUENE-D8	5.424	98	926564	40.0742574	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.19%				
76) 4-BROMOFLUOROBENZENE	7.297	95	334154	40.2982288	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.75%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	218322m	0.1776302	ppm		
4) PROPENE	1.640	41	130624	21.4043702	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	217576	32.2502337	ppb		99
6) CHLOROMETHANE	1.865	50	218942	24.5884355	ppb		99
7) VINYL CHLORIDE	1.913	62	198665	26.3632521	ppb		99
8) 1,3-BUTADIENE	1.926	39	119731	20.2417001	ppb		99
9) BROMOMETHANE	2.163	94	87481	33.4376810	ppb		97
10) CHLOROETHANE	2.248	64	112549	26.5158642	ppb		98
11) TRICHLOROFLUOROMETHANE	2.358	101	255414	27.5656856	ppb		99
12) DICHLOROFLUOROMETHANE	2.388	67	304475	25.1695699	ug/l		100
13) ETHYL ETHER	2.552	59	113224	23.7161811	ppb		99
14) ACROLEIN	2.905	56	164129	275.9597293	ppb		98
15) 1,1-DICHLOROETHENE	2.698	96	142651	24.0839892	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	150993	27.4105988	ppb		98
17) ACETONE	3.075	43	263694	113.8002273	ppb		98
18) IODOMETHANE	2.802	142	898196	115.8289317	ppb		100
19) CARBON DISULFIDE	2.735	76	421958	22.1068350	ppb		100
20) ALLYL CHLORIDE	2.984	76	352964	109.4486783	ppb		97
21) METHYLENE CHLORIDE	3.051	84	141193	21.8244420	ppb		99
22) METHYL ACETATE	3.130	43	544791	118.4882206	ppb	#	99
23) ACRYLONITRILE	3.526	53	303722	119.5898455	ppb		99
24) n-HEXANE	3.173	56	106968	22.6879405	ppb		91
25) TRANS-1,2-DICHLOROETHENE	3.142	96	144463	23.5324124	ppb		100
26) METHYL TERT-BUTYL ETHER	3.191	73	391642	22.2877555	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	273593	23.7548089	ppb		99
28) VINYL ACETATE	3.605	43	1417299	142.5814102	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	410301	22.8218359	ppb		97
30) ETHYL TERT-BUTYL ETHER	3.593	59	410015	24.4707218	ppb		99
31) 2,2-DICHLOROPROPANE	3.860	77	228655	22.0221946	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	162110	22.8431493	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	391370	129.2271974	ppb		100
34) BROMOCHLOROMETHANE	3.915	130	65726	19.9644240	ppb		99
35) TETRAHYDROFURAN	4.043	42	43921	21.4201613	ppb		99
36) CHLOROFORM	3.939	83	265000	23.1004124	ppb		99

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_04.D
Acq On : 24 Feb 2017 11:39 am
Operator : 605
Sample : LCS 1x WG954458
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:22 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	230604	26.3212547	ppb		97
39) 1,1,1-TRICHLOROETHANE	4.073	97	237602	24.2553626	ppb		100
40) CARBON TETRACHLORIDE	4.037	117	212740	23.6631321	ppb		95
41) 1,1-DICHLOROPROPENE	4.134	75	213144	24.9401970	ppb		100
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	415156	28.2167456	ppb		99
43) n-Heptane	4.213	71	108845	26.0508927	ppb		98
44) BENZENE	4.280	78	553852	23.0527584	ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	390576	22.0211680	ppb		100
46) 1,2-DICHLOROETHANE	4.389	62	196869	24.9766747	ppb		100
47) T-AMYL ALCOHOL	4.396	59	65565	100.7705329	ppb	#	84
49) TRICHLOROETHENE	4.602	130	160512	24.0984397	ppb	#	99
50) METHYL CYCLOHEXANE	4.602	83	264284	26.2114286	ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	100528	23.0111157	ppb		98
52) DIBROMOMETHANE	4.858	93	95603	23.6799277	ppb		99
53) BROMODICHLOROMETHANE	4.937	83	199993	22.6972939	ppb		100
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	484030	118.8853626	ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	235223	25.5506892	ppb		99
57) 4-METHYL-2-PENTANONE (...	5.673	43	803776	135.1404260	ppb		98
59) TOLUENE	5.460	91	609982	22.9779817	ppb		99
60) TRANS-1,3-DICHLOROPROPENE	5.716	75	203999	23.8744099	ppb		99
62) 1,1,2-TRICHLOROETHANE	5.825	97	128291	24.8594229	ppb		99
63) TETRACHLOROETHENE	5.716	164	119796	25.8997166	ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	217695	25.8537333	ppb		99
65) 2-HEXANONE	6.215	58	325330	139.9292435	ppb		98
66) CHLORODIBROMOMETHANE	5.953	129	153506	26.7155753	ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	142833	25.9954317	ppb		100
68) CHLOROBENZENE	6.458	112	391099	26.2255611	ppb		100
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	125147	24.0739185	ppb	#	97
70) ETHYLBENZENE	6.452	106	227031	25.8379841	ppb		99
71) M&P-XYLENE	6.549	106	525265	50.4677041	ppb		98
72) O-XYLENE	6.859	106	265068	25.6166218	ppb		99
73) STYRENE	6.896	104	415699	26.5725623	ppb		99
74) BROMOFORM	6.939	173	99919	26.3838354	ppb		99
75) ISOPROPYLBENZENE	7.072	105	682644	25.2655588	ppb		99
77) BROMOBENZENE	7.389	77	254842	23.6772809	ppb		98
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	174672	23.6094217	ppb		98
79) 1,2,3-TRICHLOROPROPANE	7.547	110	55350	25.9065457	ppb		97
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	53344	25.7091342	ppb		98
81) N-PROPYLBENZENE	7.370	91	759913	25.1210835	ppb		99
82) 4-ETHYLTOLUENE	7.450	105	629441	25.1754736	ppb		100
83) 2-CHLOROTOLUENE	7.510	91	463405	24.7527861	ppb		98
84) 4-CHLOROTOLUENE	7.632	91	450423	25.1221540	ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	515393	24.8938001	ppb		99
86) TERT-BUTYLBENZENE	7.754	119	460843	25.2197053	ppb		98
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	516502	25.3433690	ppb		100
88) SEC-BUTYLBENZENE	7.894	105	671046	24.5203790	ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	272882	25.3006578	ppb		99
90) P-ISOPROPYLTOLUENE	7.991	119	559767	25.6446881	ppb		99
91) DICYCLOPENTADIENE	8.003	66	547772	24.2313511	ppb		100
93) 1,4-DICHLOROBENZENE	8.155	146	251350	25.0152877	ppb		98
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	480248	25.1310436	ppb		100
95) 1,2-DICHLOROBENZENE	8.490	146	264817	26.5873210	ppb		99
96) N-BUTYLBENZENE	8.319	91	494574	24.7968317	ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	44759	26.8609235	ppb		94
98) 1,2,4-TRICHLOROBENZENE	9.676	180	156440	26.3404847	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_04.D
Acq On : 24 Feb 2017 11:39 am
Operator : 605
Sample : LCS 1x WG954458
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:22 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

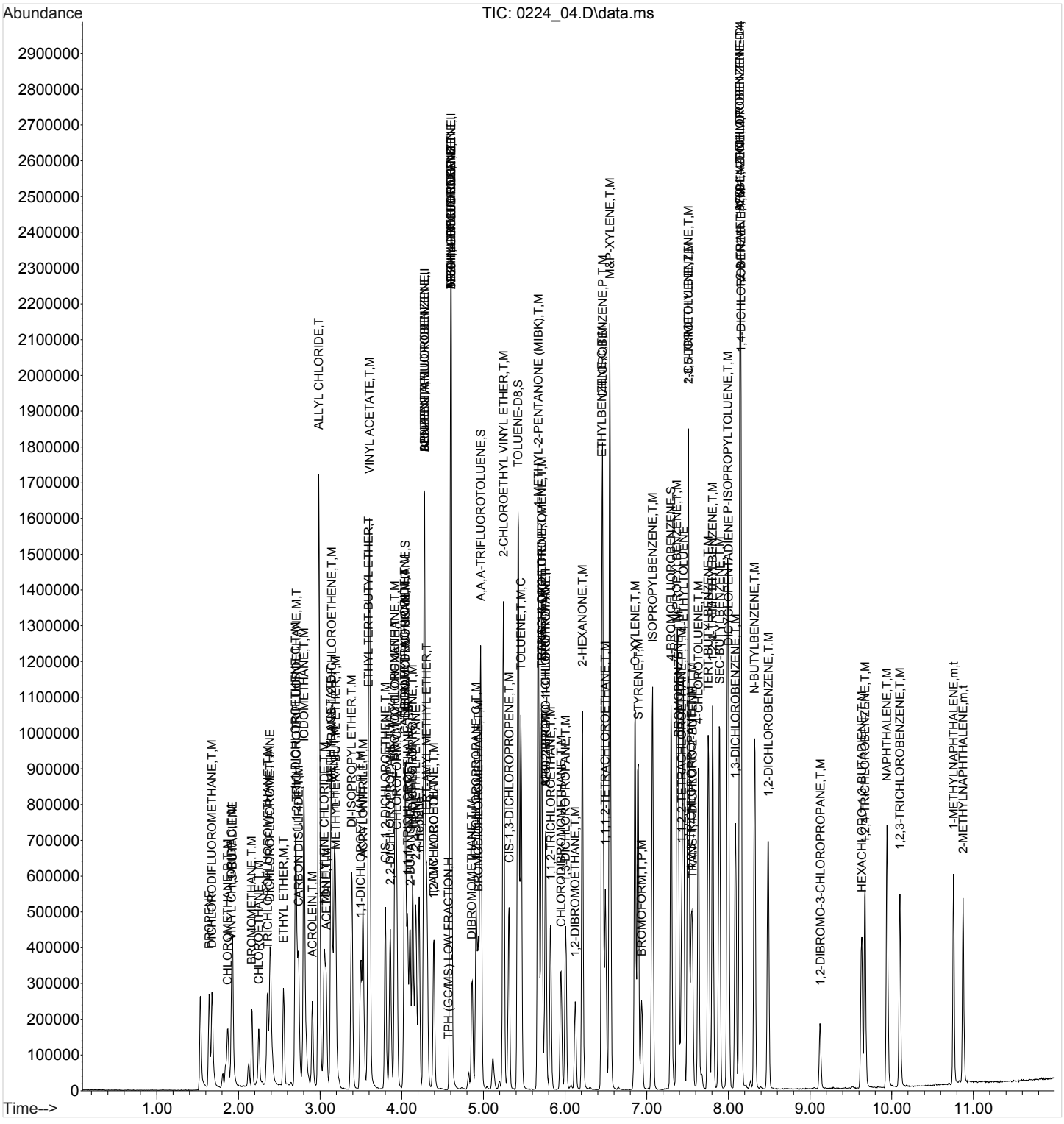
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	69316	27.3267310	ppb	98
100)	NAPHTHALENE	9.944	128	530223	26.4281714	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	150376	26.1294361	ppb	100
102)	1-METHYLNAPHTHALENE	10.759	142	218945	26.2031172	ppb	100
103)	2-METHYLNAPHTHALENE	10.875	142	190061	24.3421777	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_04.D
Acq On : 24 Feb 2017 11:39 am
Operator : 605
Sample : LCS 1x WG954458
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:22 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_05.D
Acq On : 24 Feb 2017 12:02 pm
Operator : 605
Sample : LCSD 1x WG954458
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	462014	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	745981	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	117439	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	299943	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	462195	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	745981	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	117439	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	299943	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	235105	40.9161371	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.29%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	406513	39.5271724	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.82%				
58) TOLUENE-D8	5.430	98	884684	39.8454461	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.61%				
76) 4-BROMOFLUOROBENZENE	7.297	95	322400	39.8355332	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.59%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	443608m	0.1895940	ppm		
4) PROPENE	1.640	41	127731	21.5746060	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	212469	32.4626925	ppb		100
6) CHLOROMETHANE	1.871	50	219188	25.3738096	ppb		99
7) VINYL CHLORIDE	1.913	62	200569	27.4352243	ppb		100
8) 1,3-BUTADIENE	1.932	39	120381	20.9780641	ppb		99
9) BROMOMETHANE	2.169	94	82426	32.4753412	ppb		99
10) CHLOROETHANE	2.248	64	109225	26.5248713	ppb		99
11) TRICHLOROFLUOROMETHANE	2.358	101	252312	28.0691391	ppb		100
12) DICHLOROFLUOROMETHANE	2.388	67	301764	25.7133505	ug/l		98
13) ETHYL ETHER	2.552	59	112614	24.3145219	ppb		99
14) ACROLEIN	2.905	56	162463	280.6188257	ppb		98
15) 1,1-DICHLOROETHENE	2.698	96	141376	24.6034709	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	149472	27.9697536	ppb		97
17) ACETONE	3.075	43	257545	114.5679363	ppb		97
18) IODOMETHANE	2.802	142	917961	122.0217504	ppb		100
19) CARBON DISULFIDE	2.735	76	414019	22.3586050	ppb		100
20) ALLYL CHLORIDE	2.984	76	348212	111.2989145	ppb		96
21) METHYLENE CHLORIDE	3.051	84	139258	22.1879522	ppb		97
22) METHYL ACETATE	3.130	43	548973	123.0731523	ppb	#	99
23) ACRYLONITRILE	3.526	53	300104	121.8027024	ppb		99
24) n-HEXANE	3.173	56	106718	23.3316773	ppb		89
25) TRANS-1,2-DICHLOROETHENE	3.142	96	144887	24.3279956	ppb		98
26) METHYL TERT-BUTYL ETHER	3.191	73	382185	22.4190806	ppb		99
27) 1,1-DICHLOROETHANE	3.501	63	266420	23.8440744	ppb		98
28) VINYL ACETATE	3.605	43	1393775	144.5310579	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	397075	22.7660473	ppb		98
30) ETHYL TERT-BUTYL ETHER	3.593	59	400763	24.6548145	ppb		98
31) 2,2-DICHLOROPROPANE	3.860	77	217077	21.5506707	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.799	96	160741	23.3474752	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	384147	130.7467569	ppb		99
34) BROMOCHLOROMETHANE	3.915	130	62389	19.5341579	ppb		97
35) TETRAHYDROFURAN	4.043	42	43838	22.0378050	ppb		99
36) CHLOROFORM	3.939	83	261612	23.5070758	ppb		99

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_05.D
Acq On : 24 Feb 2017 12:02 pm
Operator : 605
Sample : LCSD 1x WG954458
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	CYCLOHEXANE	3.921	84	227185	26.7292326	ppb		96
39)	1,1,1-TRICHLOROETHANE	4.073	97	235101	24.7388349	ppb		99
40)	CARBON TETRACHLORIDE	4.037	117	209055	23.9690444	ppb		95
41)	1,1-DICHLOROPROPENE	4.134	75	212104	25.5824841	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.170	57	411728	28.8451693	ppb		99
43)	n-Heptane	4.213	71	106164	26.1913862	ppb		98
44)	BENZENE	4.280	78	550518	23.6193412	ppb		100
45)	TERT-AMYL METHYL ETHER	4.304	73	381911	22.1954549	ppb		100
46)	1,2-DICHLOROETHANE	4.389	62	197155	25.7829238	ppb		100
47)	T-AMYL ALCOHOL	4.396	59	62245	98.6127448	ppb	#	80
49)	TRICHLOROETHENE	4.602	130	158715	24.8141755	ppb	#	99
50)	METHYL CYCLOHEXANE	4.602	83	259127	26.7824375	ppb		100
51)	1,2-DICHLOROPROPANE	4.913	62	101302	24.1473298	ppb		98
52)	DIBROMOMETHANE	4.864	93	93732	24.1767097	ppb		99
53)	BROMODICHLOROMETHANE	4.937	83	193585	22.8787055	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.247	63	460526	117.7906234	ppb		99
56)	CIS-1,3-DICHLOROPROPENE	5.314	75	229435	25.9527249	ppb		100
57)	4-METHYL-2-PENTANONE (...	5.673	43	776666	135.9831201	ppb		98
59)	TOLUENE	5.460	91	610788	23.9599449	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	5.710	75	196581	23.9577819	ppb		99
62)	1,1,2-TRICHLOROETHANE	5.825	97	125012	24.8189191	ppb		99
63)	TETRACHLOROETHENE	5.716	164	118233	26.1895304	ppb		99
64)	1,3-DICHLOROPROPANE	6.008	76	215850	26.2641391	ppb		99
65)	2-HEXANONE	6.215	58	315728	139.1341626	ppb		99
66)	CHLORODIBROMOMETHANE	5.953	129	153166	27.3110158	ppb		98
67)	1,2-DIBROMOETHANE	6.123	107	139478	26.0082119	ppb		98
68)	CHLOROBENZENE	6.464	112	387116	26.5959502	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.494	133	124693	24.5756336	ppb		98
70)	ETHYLBENZENE	6.452	106	225545	26.2992265	ppb		99
71)	M&P-XYLENE	6.549	106	519491	51.1386689	ppb		100
72)	O-XYLENE	6.859	106	261806	25.9227133	ppb		100
73)	STYRENE	6.896	104	409690	26.8315724	ppb		99
74)	BROMOFORM	6.939	173	97986	26.5088072	ppb		99
75)	ISOPROPYLBENZENE	7.072	105	683183	25.9064550	ppb		100
77)	BROMOBENZENE	7.389	77	254268	24.2040942	ppb		98
78)	1,1,2,2-TETRACHLOROETHANE	7.425	83	171908	23.8064397	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.547	110	51719	24.8015207	ppb		95
80)	TRANS-1,4-DICHLORO-2-B...	7.559	53	51086	25.2255172	ppb		97
81)	N-PROPYLBENZENE	7.370	91	762730	25.8334035	ppb		99
82)	4-ETHYLTOLUENE	7.450	105	630564	25.8397377	ppb		100
83)	2-CHLOROTOLUENE	7.510	91	462106	25.2895609	ppb		99
84)	4-CHLOROTOLUENE	7.632	91	449984	25.7140032	ppb		100
85)	1,3,5-TRIMETHYLBENZENE	7.510	105	517325	25.6007363	ppb		100
86)	TERT-BUTYLBENZENE	7.754	119	456711	25.6073591	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	7.808	105	513568	25.8182381	ppb		100
88)	SEC-BUTYLBENZENE	7.888	105	671497	25.1394209	ppb		100
89)	1,3-DICHLOROBENZENE	8.088	146	271820	25.8210940	ppb		100
90)	P-ISOPROPYLTOLUENE	7.991	119	561973	26.3780014	ppb		99
91)	DICYCLOPENTADIENE	8.003	66	546861	24.7851220	ppb		100
93)	1,4-DICHLOROBENZENE	8.155	146	255023	26.5600023	ppb		93
94)	1,2,3-TRIMETHYLBENZENE	8.149	105	482092	26.3995807	ppb		100
95)	1,2-DICHLOROBENZENE	8.490	146	262040	27.5307761	ppb		99
96)	N-BUTYLBENZENE	8.319	91	501700	26.3227440	ppb		99
97)	1,2-DIBROMO-3-CHLOROPR...	9.129	157	45025	28.2758997	ppb		99
98)	1,2,4-TRICHLOROBENZENE	9.676	180	159466	28.0974044	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_05.D
Acq On : 24 Feb 2017 12:02 pm
Operator : 605
Sample : LCSD 1x WG954458
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

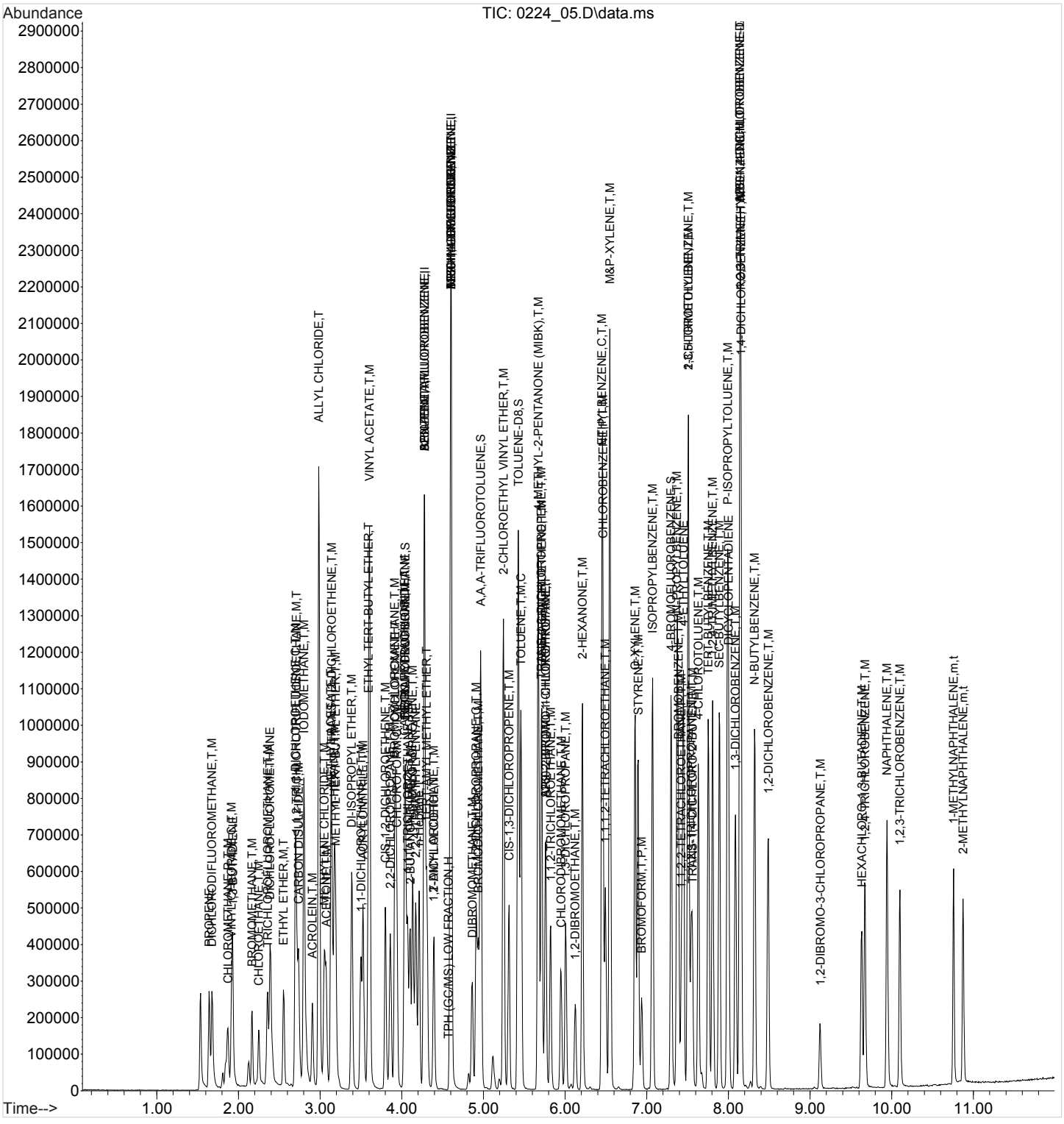
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	72205	29.7881551	ppb	97
100)	NAPHTHALENE	9.944	128	528651	27.5739990	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	151859	27.6130380	ppb	99
102)	1-METHYLNAPHTHALENE	10.759	142	221653	27.7596309	ppb	99
103)	2-METHYLNAPHTHALENE	10.875	142	193454	25.9278364	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_05.D
Acq On : 24 Feb 2017 12:02 pm
Operator : 605
Sample : LCSD 1x WG954458
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_08.D
Acq On : 24 Feb 2017 1:10 pm
Operator : 605
Sample : BLANK 1x WG954458
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:48 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

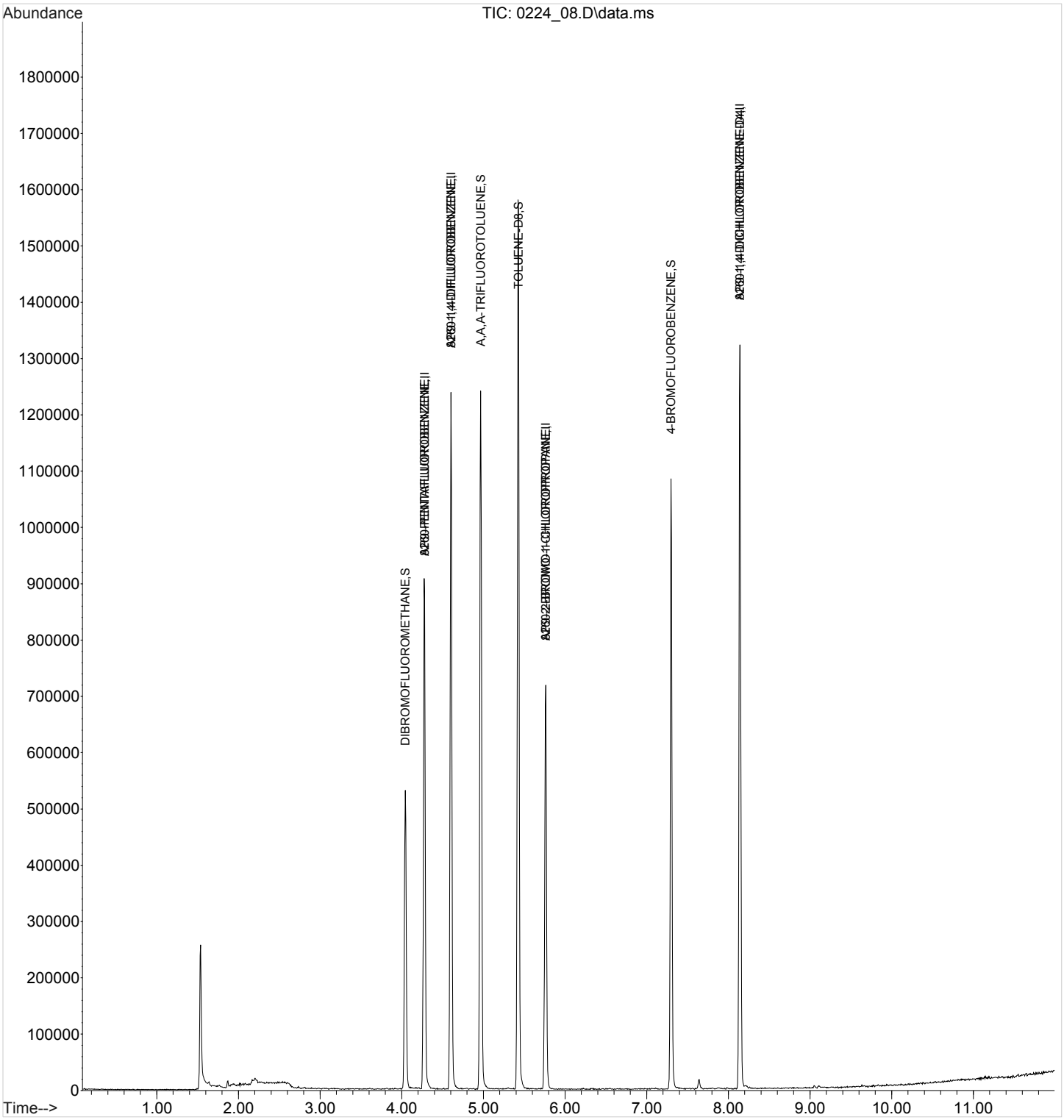
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.280	168	488841	40.0000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	784996	40.0000000	ppb	0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	120885	40.0000000	ppb	0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	315941	40.0000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	490944	40.0000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	784996	40.0000000	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	120885	40.0000000	ppb	# 0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	315941	40.0000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.043	111	252023	41.4534279	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.63%			
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	425960	39.3595796	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.40%			
58) TOLUENE-D8	5.430	98	908177	38.8706087	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.18%			
76) 4-BROMOFLUOROBENZENE	7.298	95	326586	39.2024396	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.01%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -4346211m	Below Cal			

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_08.D
Acq On : 24 Feb 2017 1:10 pm
Operator : 605
Sample : BLANK 1x WG954458
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 15:59:48 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_12.D
Acq On : 24 Feb 2017 2:54 pm
Operator : 605
Sample : L891420-05 1x WG954458 V8260
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 16:00:27 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

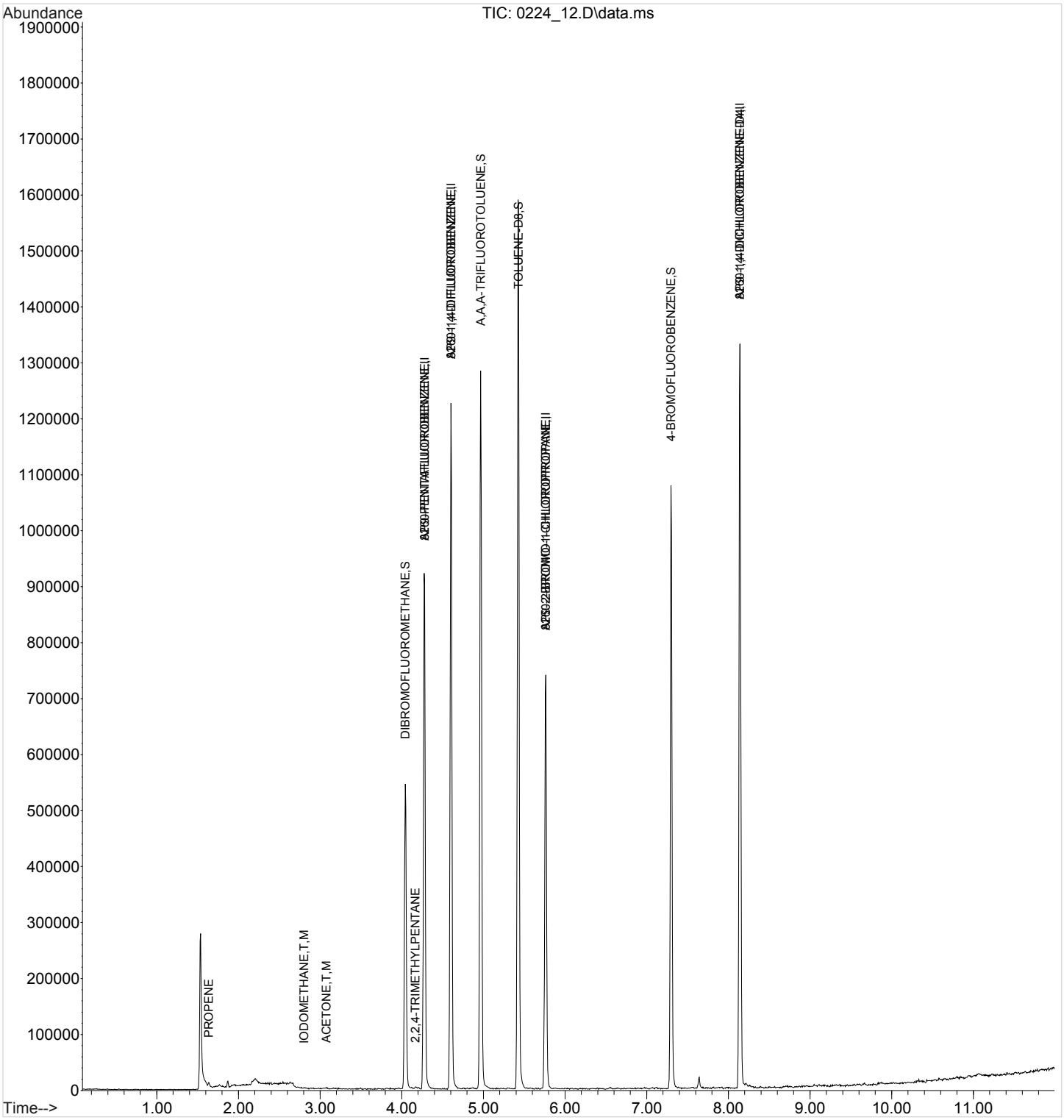
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	498012	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	796620	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	125561	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	326150	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	498608	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	796620	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	125561	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	326150	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	261234	42.1772042	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.44%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	434177	39.5334471	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.83%				
58) TOLUENE-D8	5.430	98	918540	38.7404940	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 96.85%				
76) 4-BROMOFLUOROBENZENE	7.297	95	328936	38.0140889	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.04%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4378769m	Below Cal			
4) PROPENE	1.634	41	2742	0.4296644	ppb		92
17) ACETONE	3.075	43	2395	0.9883956	ppb	#	84
18) IODOMETHANE	2.802	142	1793	0.2211101	ppb	#	73
42) 2,2,4-TRIMETHYLPENTANE	4.164	57	2212	0.1437683	ppb	#	26

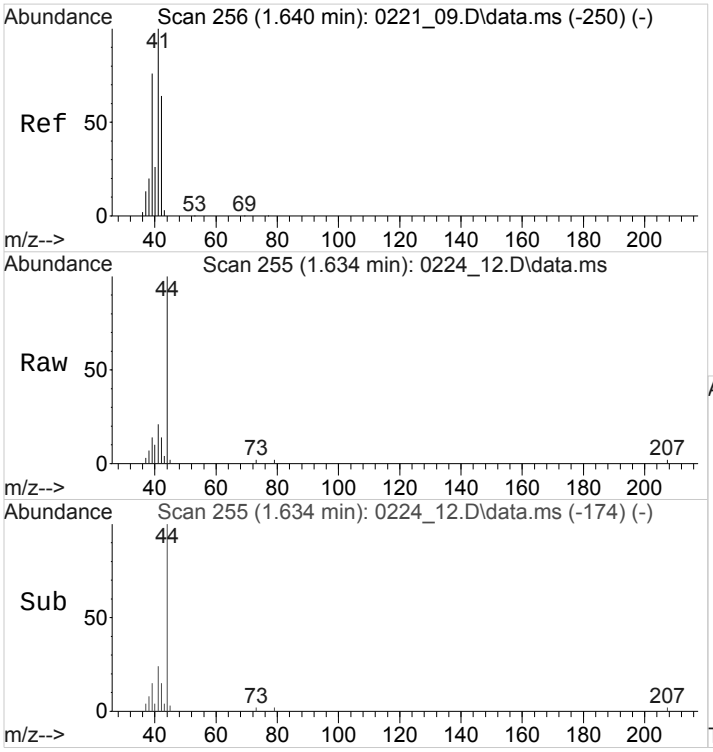
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_12.D
Acq On : 24 Feb 2017 2:54 pm
Operator : 605
Sample : L891420-05 1x WG954458 V8260
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 24 16:00:27 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

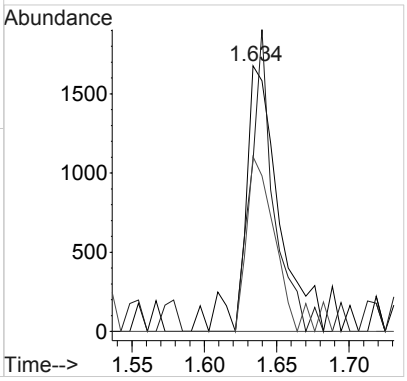


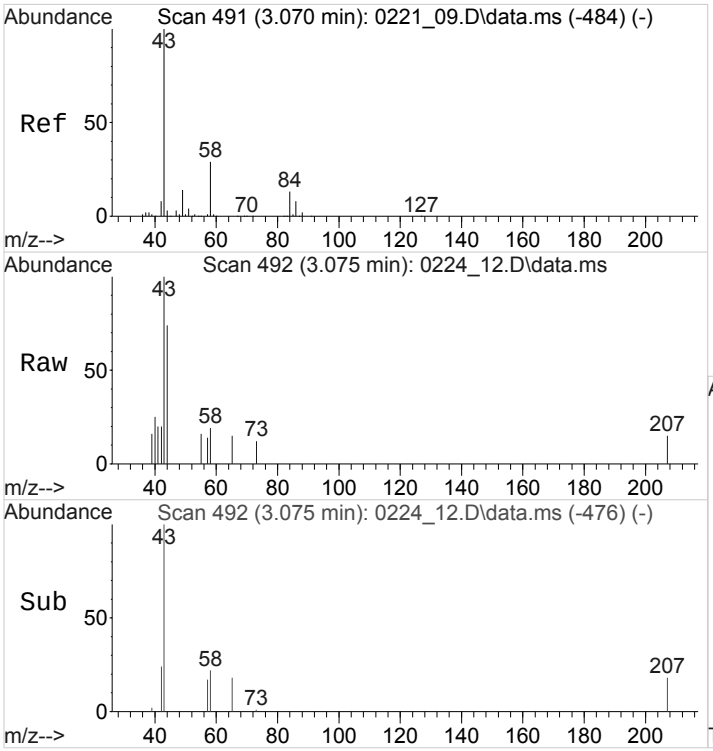


#4
PROPENE
Concen: 0.4296644 ppb
RT: 1.634 min Scan# 255
Delta R.T. -0.005 min
Lab File: 0224_12.D
Acq: 24 Feb 2017 2:54 pm

Tgt Ion: 41 Resp: 2742

Ion	Ratio	Lower	Upper
41	100		
39	76.3	60.4	90.6
42	52.4	51.6	77.4

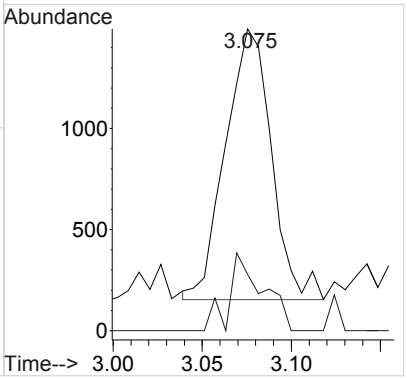


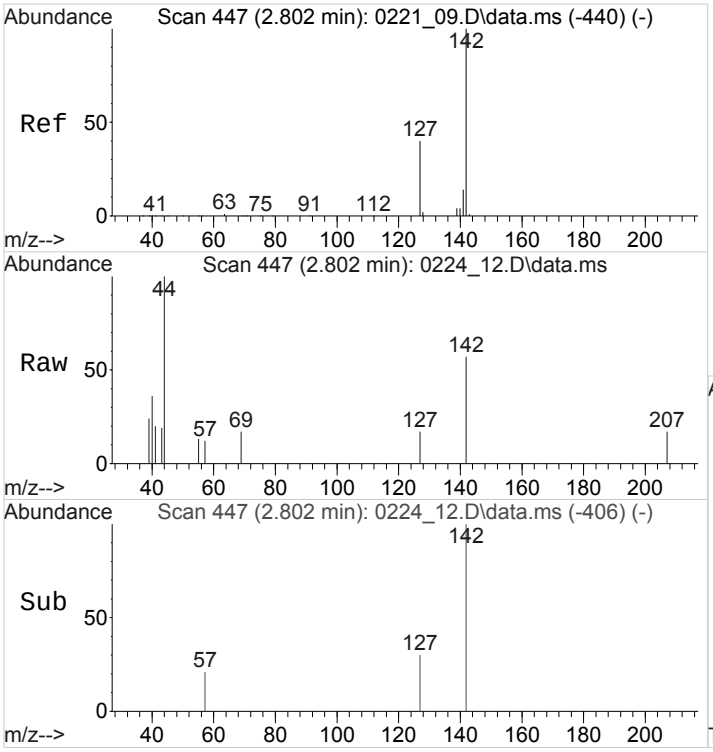


#17
ACETONE
Concen: 0.9883956 ppb
RT: 3.075 min Scan# 492
Delta R.T. 0.006 min
Lab File: 0224_12.D
Acq: 24 Feb 2017 2:54 pm

Tgt Ion: 43 Resp: 2395

Ion	Ratio	Lower	Upper
43	100		
58	21.2	24.1	36.1#

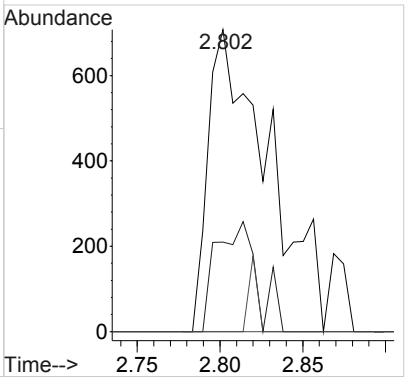


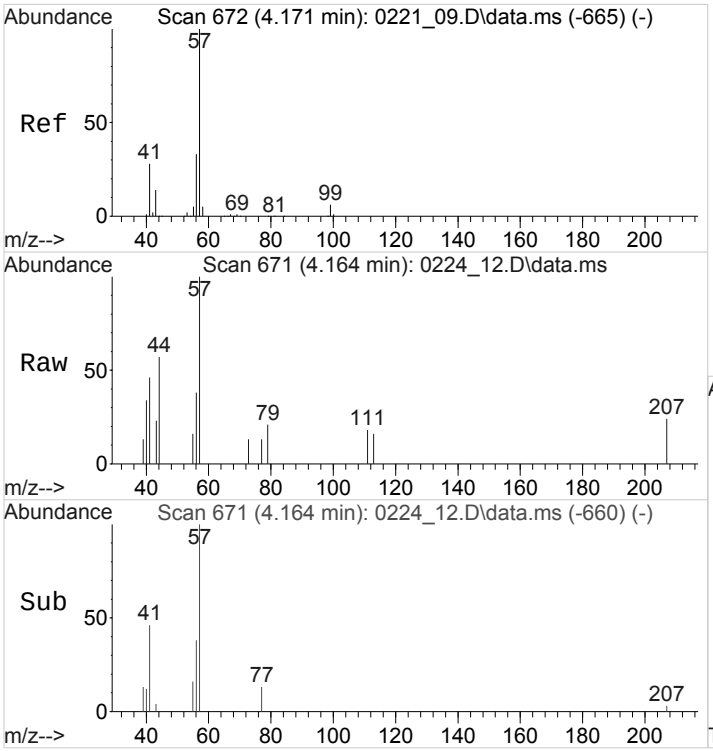


#18
IODOMETHANE
Concen: 0.2211101 ppb
RT: 2.802 min Scan# 447
Delta R.T. -0.000 min
Lab File: 0224_12.D
Acq: 24 Feb 2017 2:54 pm

Tgt Ion:142 Resp: 1793

Ion	Ratio	Lower	Upper
142	100		
127	24.7	32.1	48.1#
141	0.0	11.2	16.8#

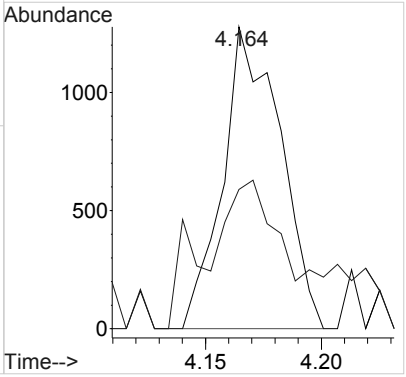




#42
2,2,4-TRIMETHYLPENTANE
Concen: 0.1437683 ppb
RT: 4.164 min Scan# 671
Delta R.T. -0.006 min
Lab File: 0224_12.D
Acq: 24 Feb 2017 2:54 pm

Tgt Ion: 57 Resp: 2212

Ion	Ratio	Lower	Upper
57	100		
41	68.7	23.2	34.8#



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : Ben Baker
Date Released : 2/27/2017 1:58:48 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0224_01	INSTBLK	V830B21Q					1	1	02/24/17 1032	"water"
2	0224_02	ICV VMS 25 PPB	V830B21Q					1	1	02/24/17 1054	"water"
3	0224_02T	ICV VMS 25 ppb	V830B21Q						1	02/24/17 1054	
4	0224_03	ICV AP9 10A PPB	V830B21Q					1	1	02/24/17 1117	"water"
5	0224_04	LCS	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1139	"water"
6	0224_05	LCSD	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1202	"water"
7	0224_06	LCSAP9	V830B21Q					1	1	02/24/17 1225	"water"
8	0224_07	INSTBLK	V830B21Q					1	1	02/24/17 1247	"water"
9	0224_08	BLANK	V830B21Q	WG954458	V8260	GW		1	1	02/24/17 1310	"water"
10	0224_09	L891200-09	V830B21Q	WG954453	V8260OXY	GW	CA	1	1	02/24/17 1346	"water"
11	0224_10	L891363-02	V830B21Q	WG954453	V8260OXY	GW	WV	1	1	02/24/17 1409	"water"
12	0224_11	INSTBLK	V830B21Q					1	1	02/24/17 1432	"water"
13	0224_12	L891420-05	V830B21Q	WG954458	V8260	GW	AL	1	1	02/24/17 1454	"water"
14	0224_13	L890880-02	V830B21Q	WG955582	V8260TCLP	TCLP	IL	1	50	02/24/17 1521	"water"
15	0224_14	L890949-01	V830B21Q	WG955582	V8260TCLP	TCLP	TN	1	50	02/24/17 1543	"water"
16	0224_15	L890974-01	V830B21Q	WG955582	V8260BTEX	TCLP	KS	1	50	02/24/17 1606	"water"
17	0224_16	MS	V830B21Q	WG955582	V8260BTEX	TCLP		1	50	02/24/17 1629	"water"
18	0224_17	MSD	V830B21Q	WG955582	V8260BTEX	TCLP		1	50	02/24/17 1651	"water"
19	0224_18	INSTBLK	V830B21Q					1	1	02/24/17 1714	"water"
20	0224_19	L891421-09	V830B21Q	WG954458	V8260	GW	TX	1	1	02/24/17 1737	"water"
21	0224_20	L891206-01	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1800	"water"
22	0224_21	L891206-02	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1822	"water"
23	0224_22	L891206-03	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1845	"water"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : Ben Baker
Date Released : 2/27/2017 1:58:48 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
24	0224_23	L891206-04	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1913	"water"
25	0224_24	L891206-05	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1936	"water"
26	0224_25	L891206-06	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 1959	"water"
27	0224_26	L891206-07	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 2021	"water"
28	0224_27	L891206-08	V830B21Q	WG954458	V8260TCL	GW	TX	1	1	02/24/17 2044	"water"
29	0224_28	DNR L891206-09	V830B21Q	WG954458				1	1	02/24/17 2107	"water"
30	0224_29	DNR L891206-10	V830B21Q	WG954458				1	1	02/24/17 2130	"water"
31	0224_30	L891420-01	V830B21Q	WG954458	V8260	GW	AL	1	1	02/24/17 2153	"water"
32	0224_31	L891420-02	V830B21Q	WG954458	V8260	GW	AL	1	1	02/24/17 2215	"water"
33	0224_32	L891420-03	V830B21Q	WG954458	V8260	GW	AL	1	1	02/24/17 2238	"water"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_30.D
Acq On : 24 Feb 2017 9:53 pm
Operator : 605
Sample : L891420-01 1x WG954458 V8260
Misc : water
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:54:54 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

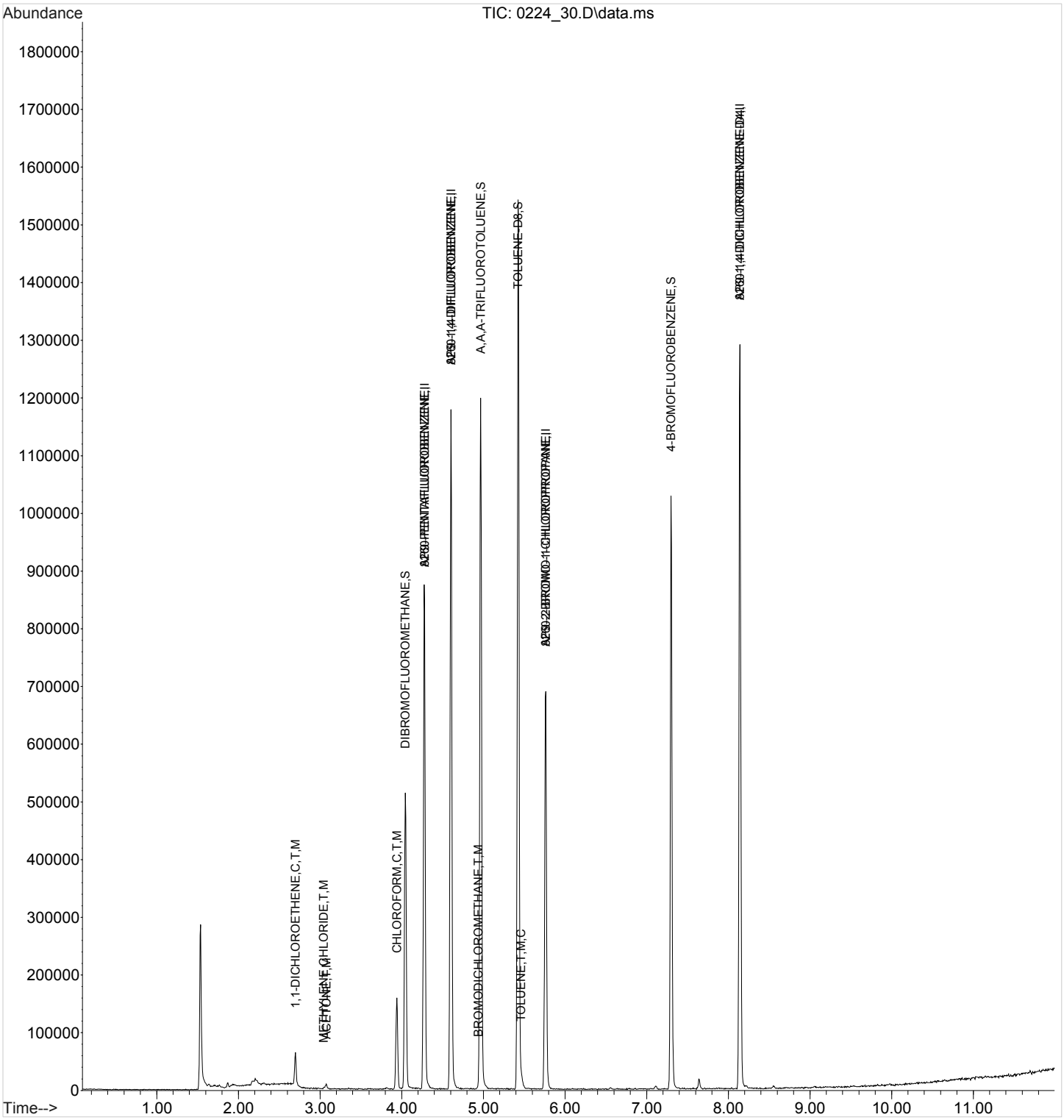
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	465636	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	761605	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.765	79	117133	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	310076	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	466781	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	761605	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.765	79	117133	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	310076	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	244585	42.2348703	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.59%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	410584	39.1040114	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 97.76%				
58) TOLUENE-D8	5.424	98	886939	39.1275137	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.82%				
76) 4-BROMOFLUOROBENZENE	7.298	95	313008	38.7760991	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.94%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3917035m	Below Cal			
15) 1,1-DICHLOROETHENE	2.698	96	16235	2.8033774	ppb		95
17) ACETONE	3.076	43	6800	3.0014248	ppb		91
21) METHYLENE CHLORIDE	3.045	84	1016	0.1606199	ppb	#	85
36) CHLOROFORM	3.939	83	96342	8.5894467	ppb		98
53) BROMODICHLOROMETHANE	4.937	83	2701	0.3126672	ppb	#	44
59) TOLUENE	5.460	91	4697	0.1804737	ppb		95

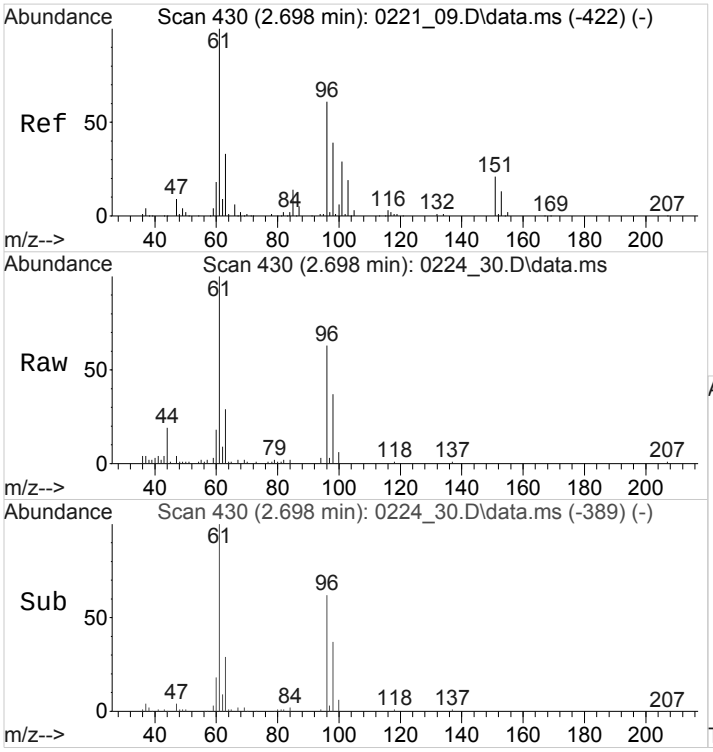
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_30.D
Acq On : 24 Feb 2017 9:53 pm
Operator : 605
Sample : L891420-01 1x WG954458 V8260
Misc : water
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:54:54 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

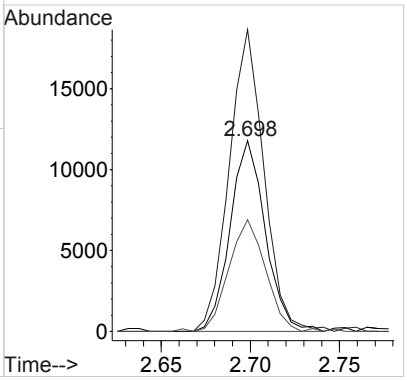


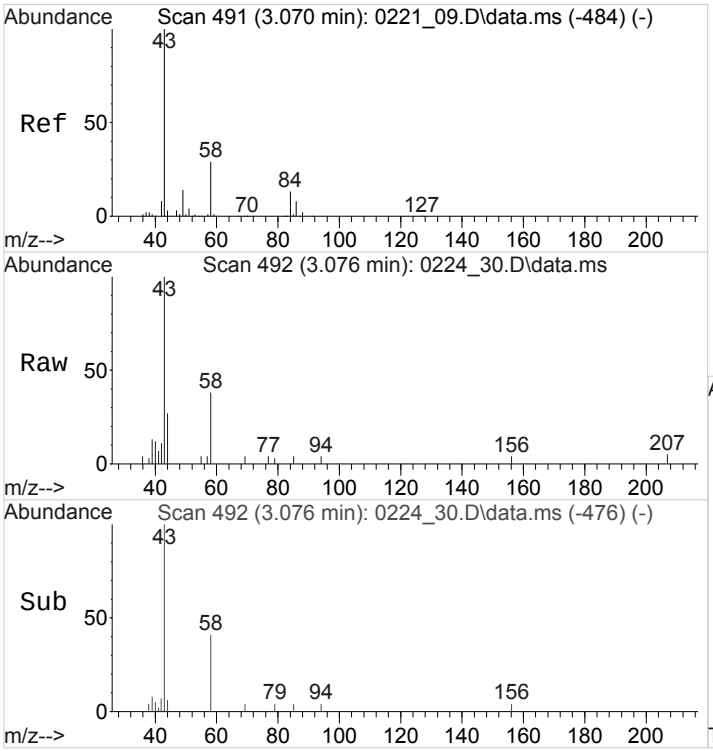


#15
1,1-DICHLOROETHENE
Concen: 2.8033774 ppb
RT: 2.698 min Scan# 430
Delta R.T. 0.000 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 96 Resp: 16235

Ion	Ratio	Lower	Upper
96	100		
61	155.5	130.7	196.1
98	61.5	50.9	76.3

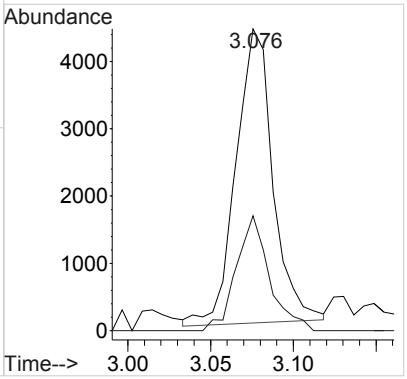


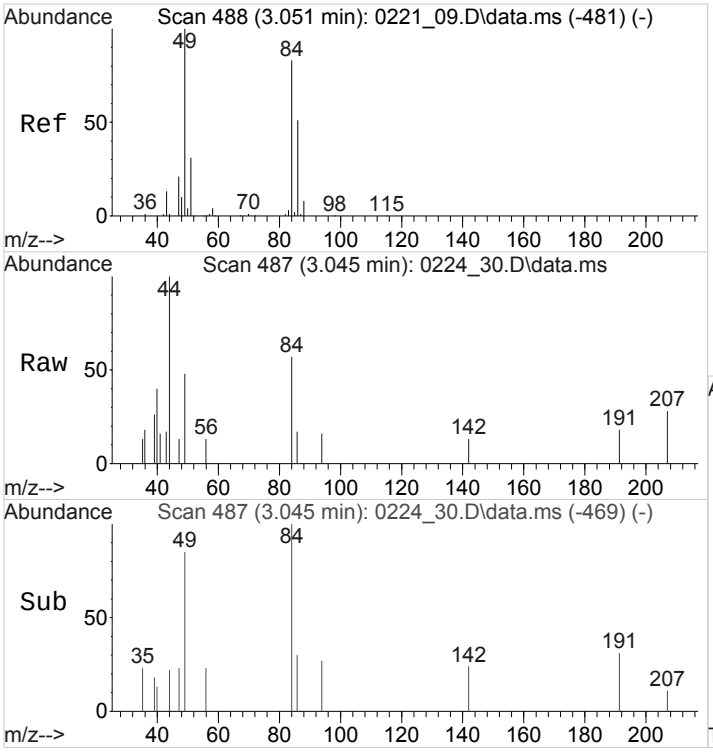


#17
ACETONE
Concen: 3.0014248 ppb
RT: 3.076 min Scan# 492
Delta R.T. 0.006 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 43 Resp: 6800

Ion	Ratio	Lower	Upper
43	100		
58	35.0	24.1	36.1

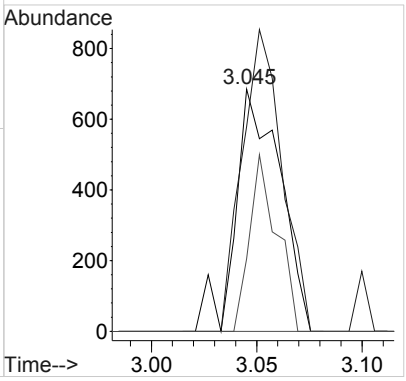


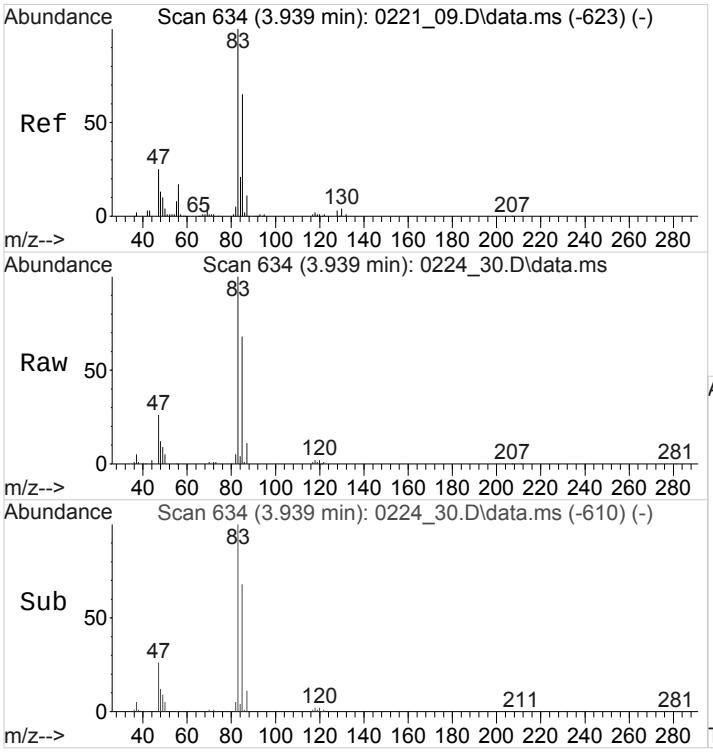


#21
METHYLENE CHLORIDE
Concen: 0.1606199 ppb
RT: 3.045 min Scan# 487
Delta R.T. -0.006 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 84 Resp: 1016

Ion	Ratio	Lower	Upper
84	100		
49	111.5	99.0	148.6
86	44.7	51.0	76.4#

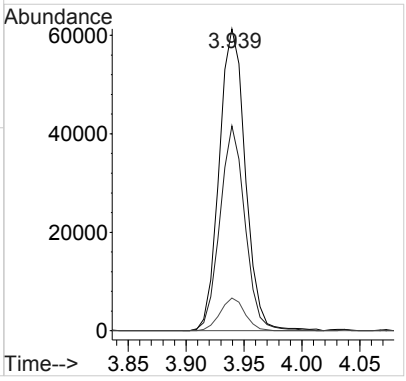


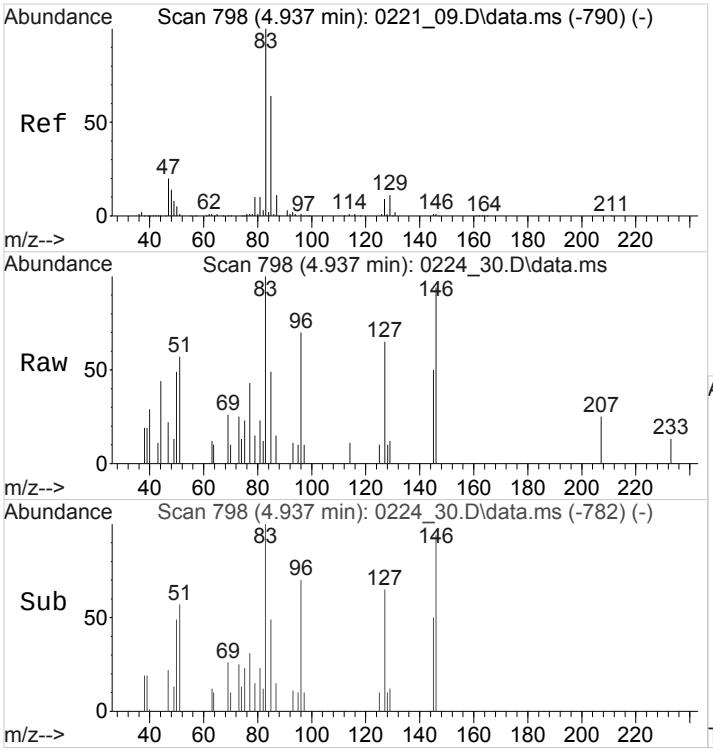


#36
CHLOROFORM
Concen: 8.5894467 ppb
RT: 3.939 min Scan# 634
Delta R.T. 0.000 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 83 Resp: 96342

Ion	Ratio	Lower	Upper
83	100		
85	65.2	53.9	80.9
87	10.3	8.2	12.2

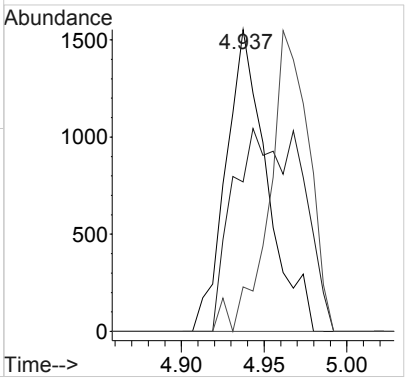


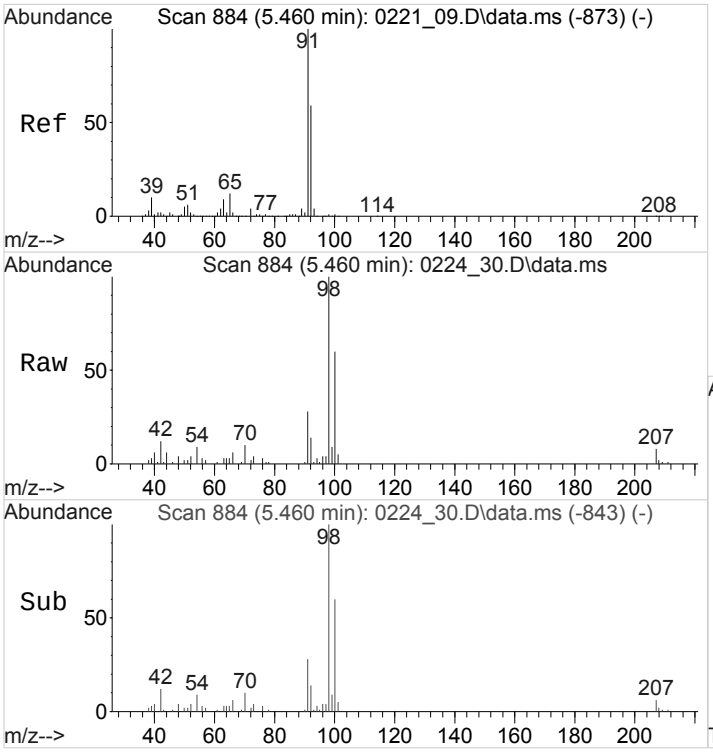


#53
BROMODICHLOROMETHANE
Concen: 0.3126672 ppb
RT: 4.937 min Scan# 798
Delta R.T. 0.000 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 83 Resp: 2701

Ion	Ratio	Lower	Upper
83	100		
85	111.4	51.4	77.0#
87	0.0	9.5	14.3#

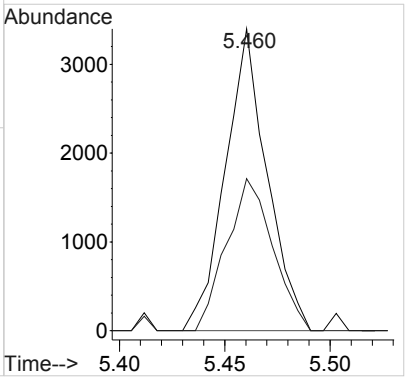




#59
TOLUENE
Concen: 0.1804737 ppb
RT: 5.460 min Scan# 884
Delta R.T. 0.000 min
Lab File: 0224_30.D
Acq: 24 Feb 2017 9:53 pm

Tgt Ion: 91 Resp: 4697

Ion	Ratio	Lower	Upper
91	100		
92	55.9	47.5	71.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_31.D
Acq On : 24 Feb 2017 10:15 pm
Operator : 605
Sample : L891420-02 1x WG954458 V8260
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:55:14 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

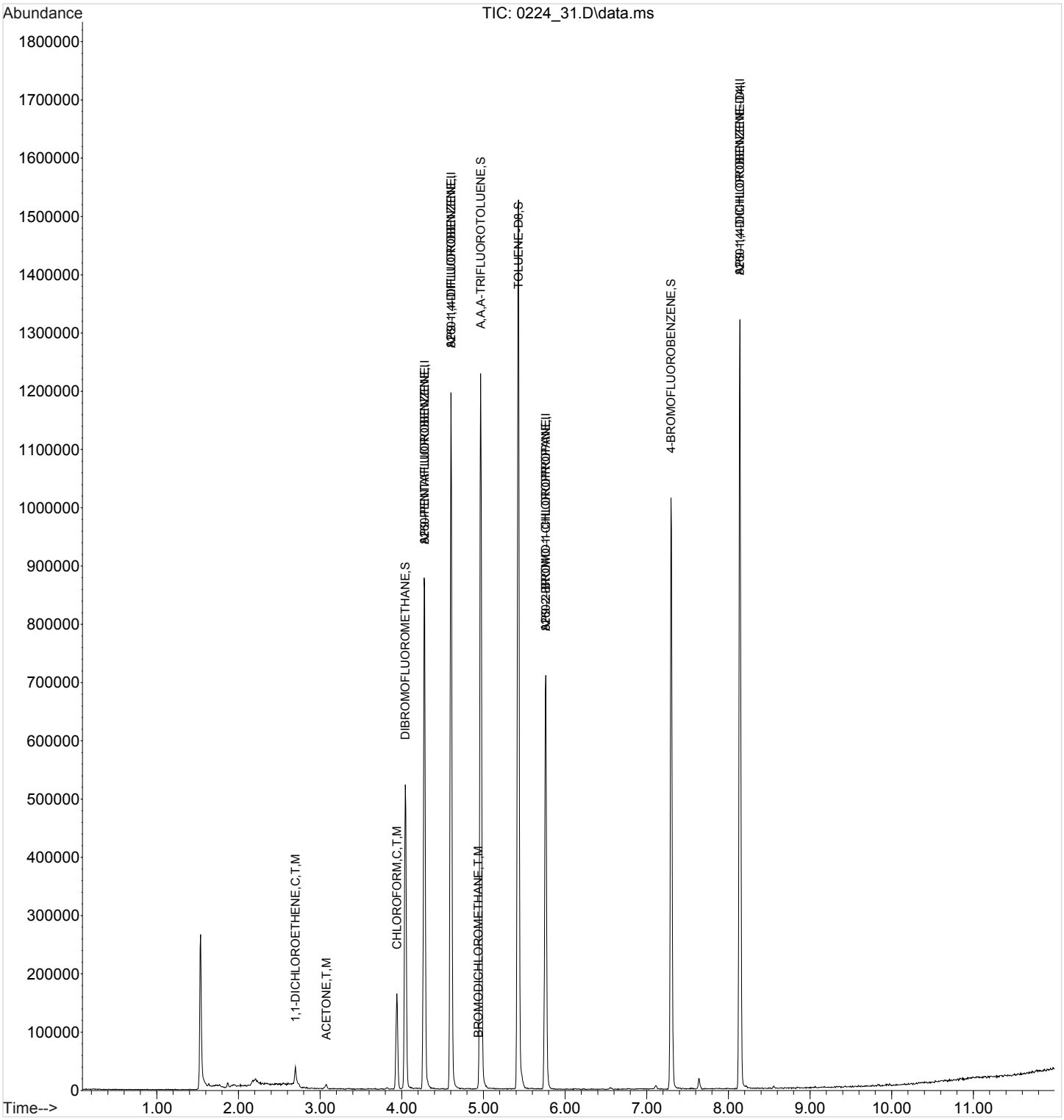
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.280	168	477151	40.0000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	773281	40.0000000	ppb	0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	119830	40.0000000	ppb	0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	314238	40.0000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	480115	40.0000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	773281	40.0000000	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	119830	40.0000000	ppb	# 0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	314238	40.0000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.043	111	247364	41.6839199	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.21%			
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	414520	38.8827727	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 97.21%			
58) TOLUENE-D8	5.430	98	896867	38.9680785	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.42%			
76) 4-BROMOFLUOROBENZENE	7.297	95	317280	38.4206832	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.05%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4015064m	Below Cal		
15) 1,1-DICHLOROETHENE	2.698	96	8463	1.4260814	ppb	94
17) ACETONE	3.075	43	8047	3.4661174	ppb	93
36) CHLOROFORM	3.939	83	99729	8.6768424	ppb	97
50) METHYL CYCLOHEXANE	4.602	83	8865	Below Cal	#	47
53) BROMODICHLOROMETHANE	4.937	83	2690	0.3066920	ppb #	89

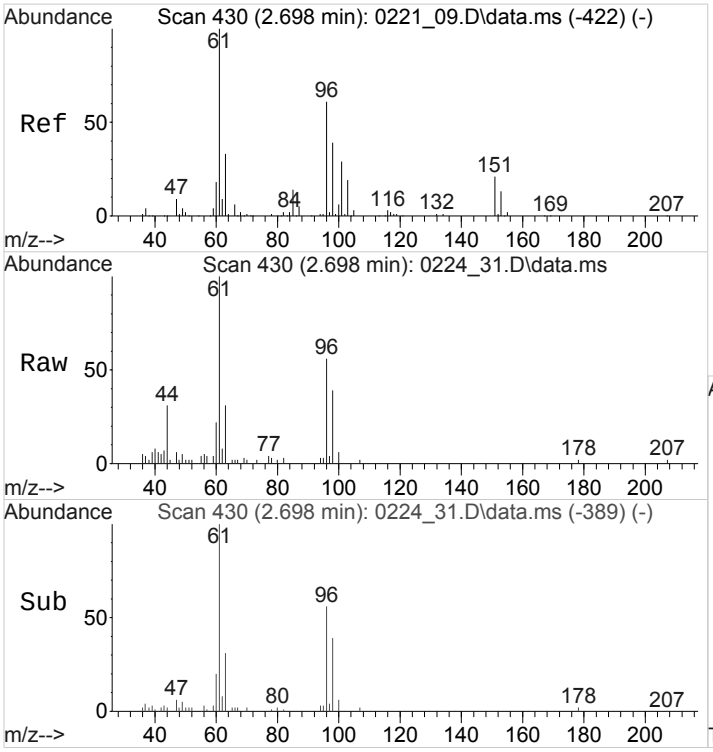
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_31.D
Acq On : 24 Feb 2017 10:15 pm
Operator : 605
Sample : L891420-02 1x WG954458 V8260
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:55:14 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

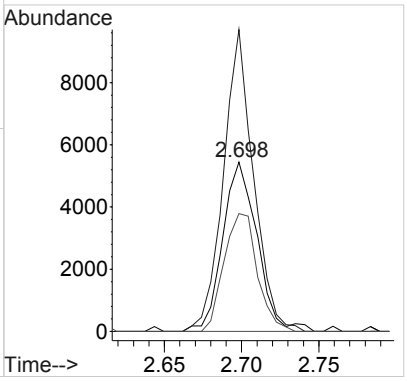


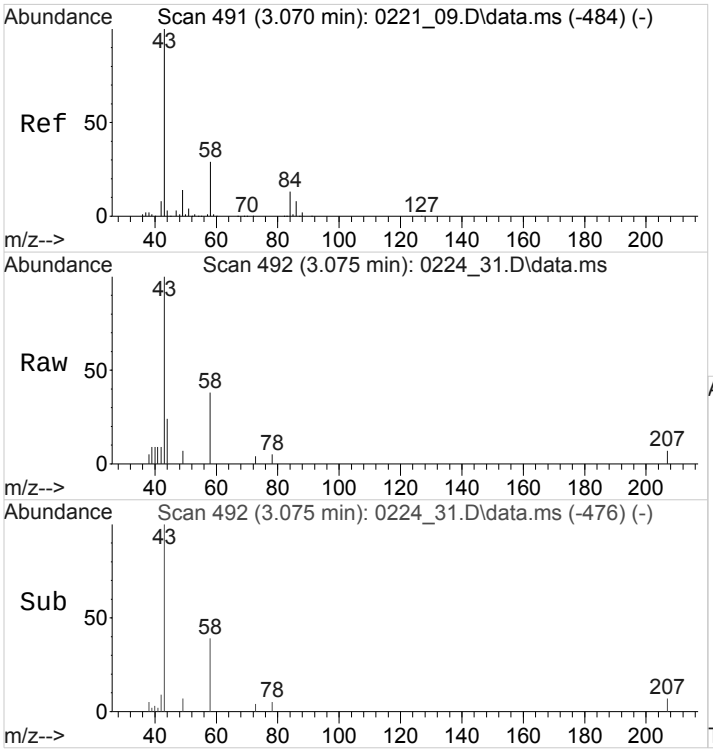


#15
1,1-DICHLOROETHENE
Concen: 1.4260814 ppb
RT: 2.698 min Scan# 430
Delta R.T. 0.000 min
Lab File: 0224_31.D
Acq: 24 Feb 2017 10:15 pm

Tgt Ion: 96 Resp: 8463

Ion	Ratio	Lower	Upper
96	100		
61	155.6	130.7	196.1
98	67.4	50.9	76.3

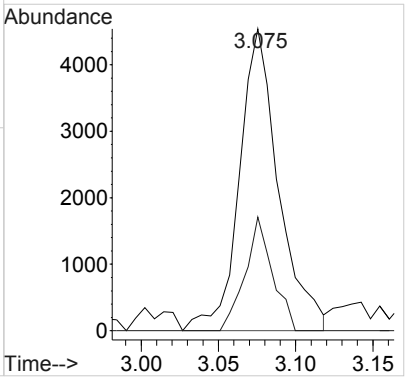


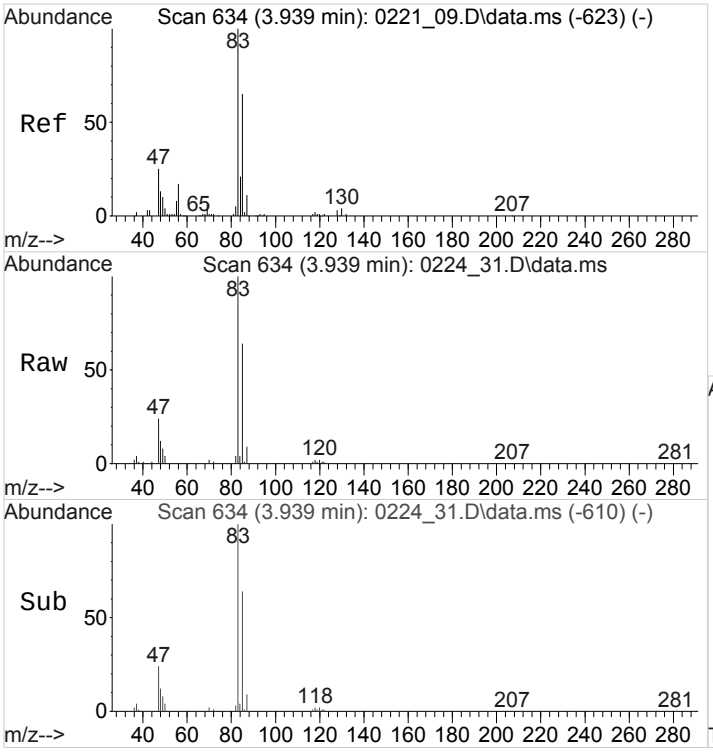


#17
ACETONE
Concen: 3.4661174 ppb
RT: 3.075 min Scan# 492
Delta R.T. 0.006 min
Lab File: 0224_31.D
Acq: 24 Feb 2017 10:15 pm

Tgt Ion: 43 Resp: 8047

Ion	Ratio	Lower	Upper
43	100		
58	26.2	24.1	36.1

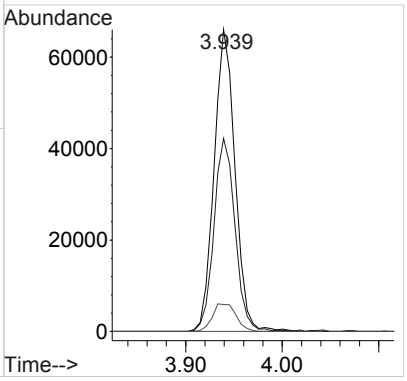


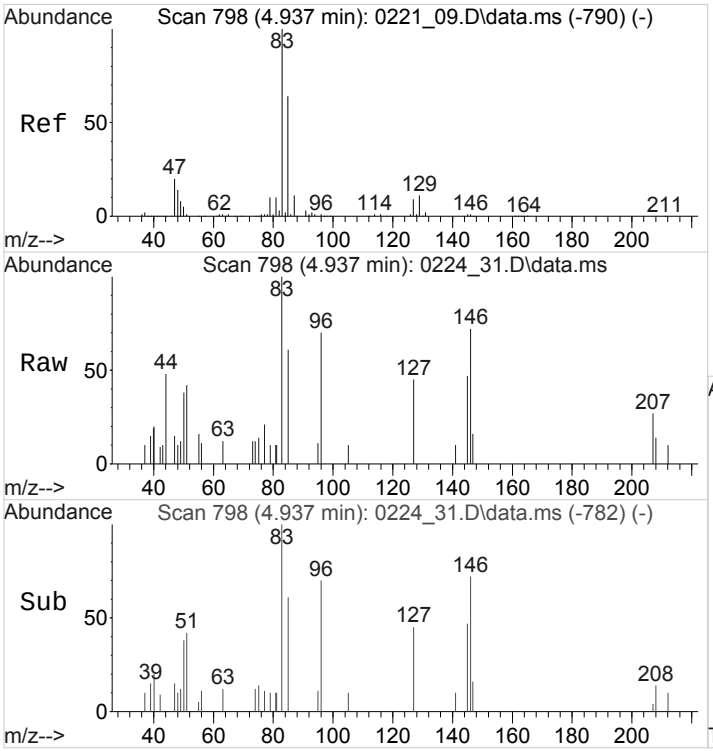


#36
CHLOROFORM
Concen: 8.6768424 ppb
RT: 3.939 min Scan# 634
Delta R.T. -0.000 min
Lab File: 0224_31.D
Acq: 24 Feb 2017 10:15 pm

Tgt Ion: 83 Resp: 99729

Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.9	80.9
87	10.3	8.2	12.2

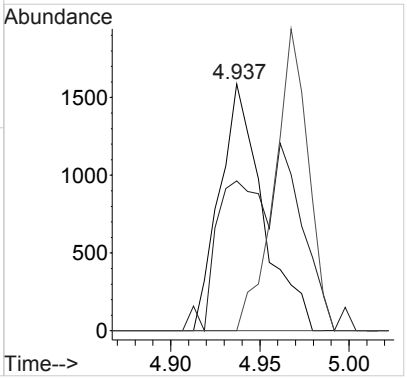




#53
BROMODICHLOROMETHANE
Concen: 0.3066920 ppb
RT: 4.937 min Scan# 798
Delta R.T. -0.000 min
Lab File: 0224_31.D
Acq: 24 Feb 2017 10:15 pm

Tgt Ion: 83 Resp: 2690

Ion	Ratio	Lower	Upper
83	100		
85	69.7	51.4	77.0
87	0.0	9.5	14.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_32.D
Acq On : 24 Feb 2017 10:38 pm
Operator : 605
Sample : L891420-03 1x WG954458 V8260
Misc : water
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:55:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

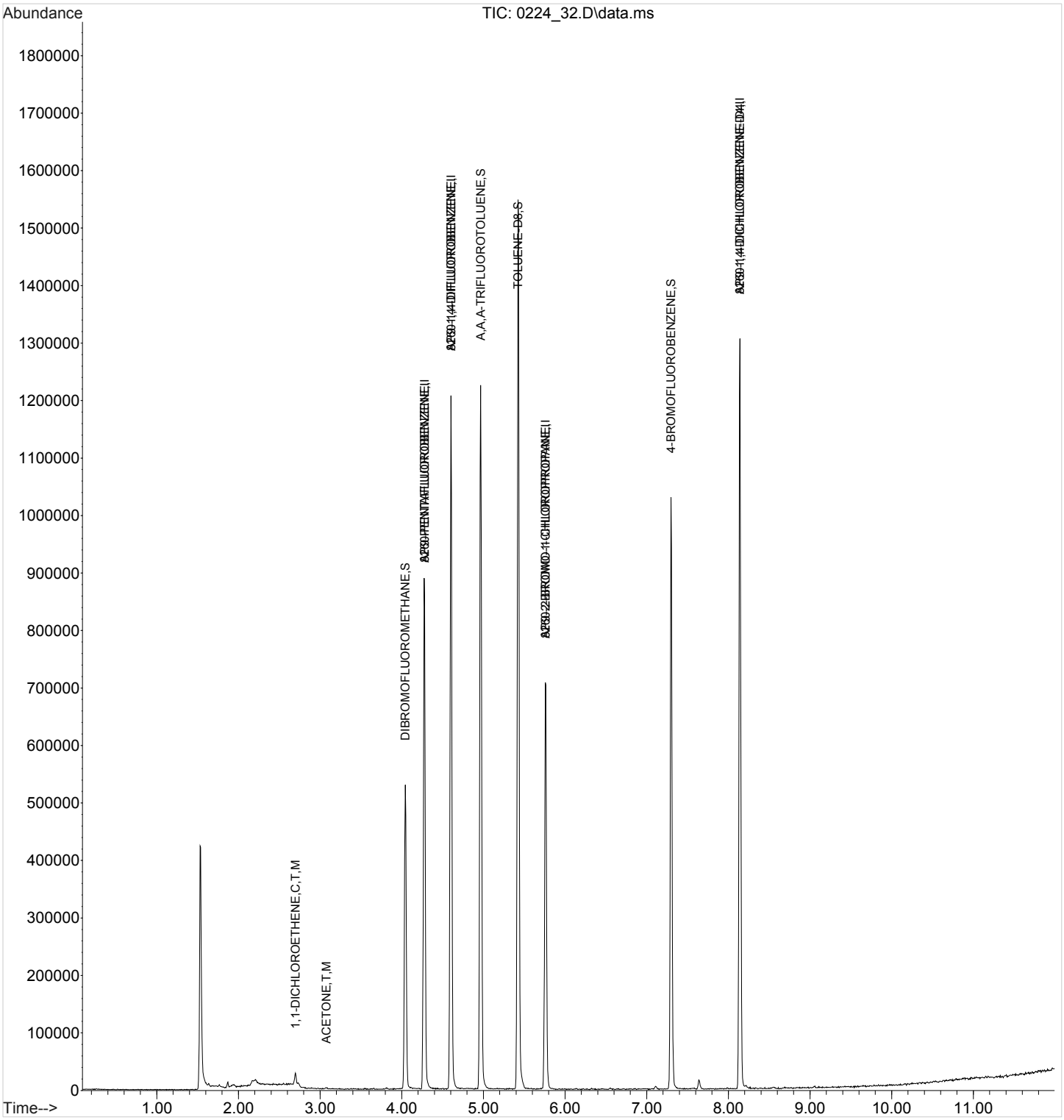
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	481479	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	772340	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	121486	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	310111	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	483631	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	772340	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	121486	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	310111	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	250424	41.8202374	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.55%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	416839	39.1479381	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 97.87%				
58) TOLUENE-D8	5.424	98	899129	39.1139579	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.78%				
76) 4-BROMOFLUOROBENZENE	7.297	95	315775	37.7172010	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 94.29%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4251781m	Below Cal			
15) 1,1-DICHLOROETHENE	2.698	96	5690	0.9501906	ppb		95
17) ACETONE	3.075	43	2090	0.8921421	ppb	#	88

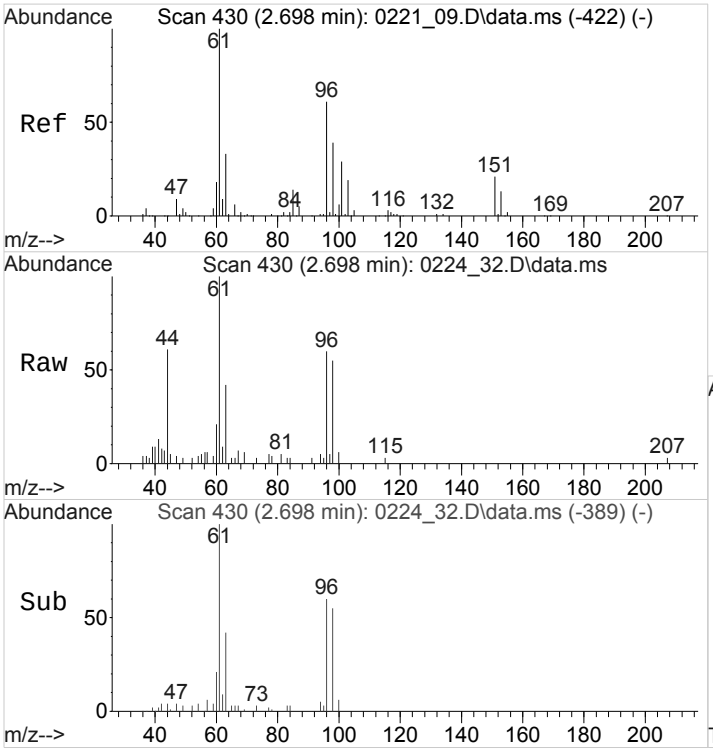
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022417\
Data File : 0224_32.D
Acq On : 24 Feb 2017 10:38 pm
Operator : 605
Sample : L891420-03 1x WG954458 V8260
Misc : water
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 27 13:55:32 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

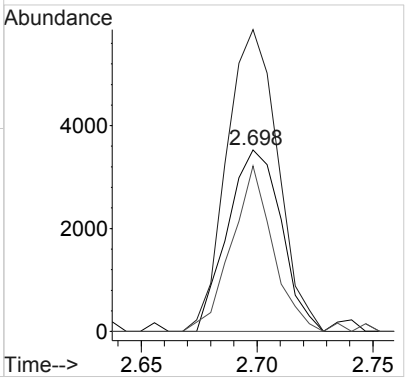


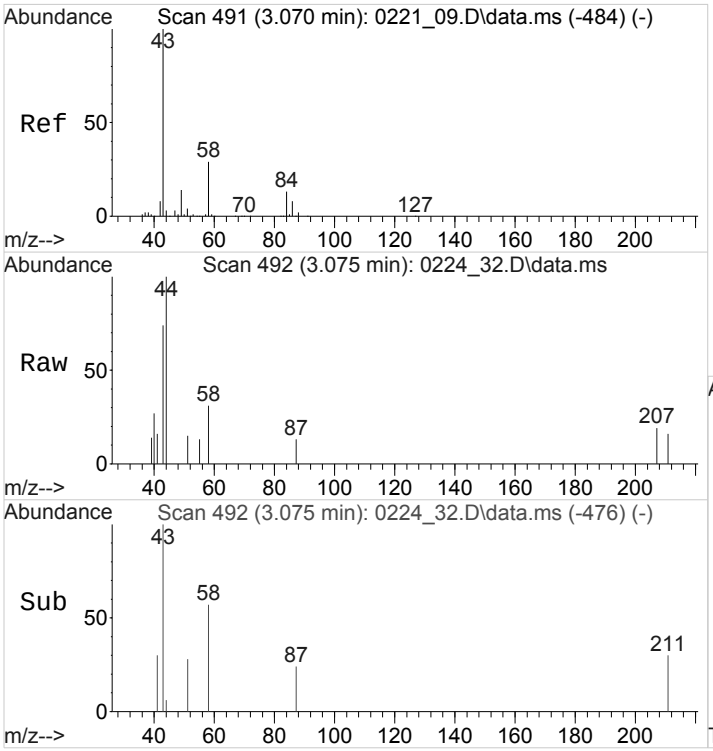


#15
1,1-DICHLOROETHENE
Concen: 0.9501906 ppb
RT: 2.698 min Scan# 430
Delta R.T. 0.000 min
Lab File: 0224_32.D
Acq: 24 Feb 2017 10:38 pm

Tgt Ion: 96 Resp: 5690

Ion	Ratio	Lower	Upper
96	100		
61	158.6	130.7	196.1
98	70.3	50.9	76.3

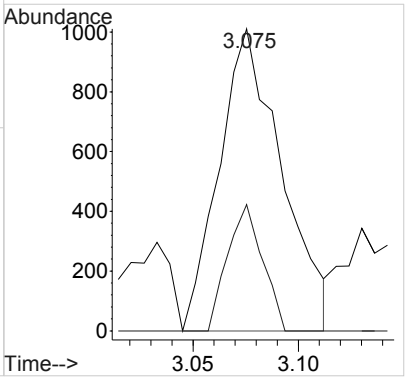




#17
ACETONE
Concen: 0.8921421 ppb
RT: 3.075 min Scan# 492
Delta R.T. 0.006 min
Lab File: 0224_32.D
Acq: 24 Feb 2017 10:38 pm

Tgt Ion: 43 Resp: 2090

Ion	Ratio	Lower	Upper
43	100		
58	23.5	24.1	36.1#



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Derek Ramey
Date Released : 2/24/2017 1:32:29 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0224_01	INSTBLK	V808A03Q					1	1	02/24/17 0650	"water "
2	0224_02	DNR ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0713	"water "
3	0224_03	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-1	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-2	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-3	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-4	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
4	0224_04	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-1	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-2	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-3	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-4	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
5	0224_04T	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-1	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-2	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-3	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-4	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
6	0224_05	AP9CV 10A PPB	V808A03Q					1	1	02/24/17 0834	"water "
7	0224_06	LCS	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0900	"water "
7	0224_06-2	LCS	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0900	"water "
7	0224_06-3	LCS	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0900	"water "
8	0224_07	LCSD	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0923	"water "
8	0224_07-2	LCSD	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0923	"water "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Derek Ramey
Date Released : 2/24/2017 1:32:29 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
8	0224_07-3	LCSD	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0923	"water "
9	0224_08	LCSAP9	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0946	"water "
9	0224_08-2	LCSAP9	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0946	"water "
9	0224_08-3	LCSAP9	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0946	"water "
10	0224_09	LCSGRO	V808A03Q	WG8W	DODV8260	GW		1	1	02/24/17 1009	"water "
10	0224_09-2	LCSGRO	V808A03Q	WG8W	V624TTO	WW		1	1	02/24/17 1009	"water "
10	0224_09-3	LCSGRO	V808A03Q	WG8W	V8260SC	GW		1	1	02/24/17 1009	"water "
10	0224_09-4	LCSGRO	V808A03Q	WG8W	V6200	GW		1	1	02/24/17 1009	"water "
10	0224_09-5	LCSGRO	V808A03Q	WG8W	V8260/465	GW		1	1	02/24/17 1009	"water "
10	0224_09-6	LCSGRO	V808A03Q	WG8W	V8260C	GW		1	1	02/24/17 1009	"water "
11	0224_10	INSTBLK	V808A03Q					1	1	02/24/17 1032	"water "
12	0224_11	BLANK	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 1055	"water "
12	0224_11-2	BLANK	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 1055	"water "
12	0224_11-3	BLANK	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 1055	"water "
13	0224_12	RL VMS 1 PPB	V808A03Q					1	1	02/24/17 1117	"water "
14	0224_13	L891633-11	V808A03Q	WG955241	V8260TCLNJ	GW	NJ	1	1	02/24/17 1142	"water "
15	0224_14	L891788-65	V808A03Q	WG955241	V8260TCLNJTIC	GW	NJ	1	1	02/24/17 1205	"water "
16	0224_15	L891939-14	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1228	"water "
17	0224_16	L891939-15	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1251	"water "
18	0224_17	L890332-30	V808A03Q	WG955241	V8260OXYSC	GW	SC	1	1	02/24/17 1314	"water "

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	616183	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1062244	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	203534	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	444359	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	617171	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1062244	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	203534	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	444359	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	310264	37.3452146	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.36%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	576599	43.8661059	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.67%				
58) TOLUENE-D8	5.72	98	1382077	42.0534321	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.13%				
76) 4-BROMOFLUOROBENZENE	7.61	95	511525	40.9624140	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.41%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	2097159m	Below Cal			
4) PROPENE	1.77	41	216643	36.6016863	ppb		98
5) DICHLORODIFLUOROMETHANE	1.81	85	136327	15.0639982	ppb		98
6) CHLOROMETHANE	2.00	50	296308	24.3523906	ppb		98
7) VINYL CHLORIDE	2.07	62	211876	21.1923565	ppb	#	86
8) 1,3-BUTADIENE	2.09	39	241476	30.1778399	ppb		93
9) BROMOMETHANE	2.35	94	130589	16.4892641	ppb		95
10) CHLOROETHANE	2.44	64	146823	22.6055214	ppb		99
11) TRICHLOROFLUOROMETHANE	2.56	101	220429	21.8492858	ppb		100
12) DICHLOROFLUOROMETHANE	2.59	67	338288	22.5529303	ug/l		99
13) ETHYL ETHER	2.76	59	166093	26.5302064	ppb		94
14) ACROLEIN	3.13	56	169719	1190.7100279	ppb		100
15) 1,1-DICHLOROETHENE	2.92	96	141736	25.0305978	ppb		98
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	138890	23.8407442	ppb		96
17) ACETONE	3.30	43	442442	164.9299632	ppb		99
18) IODOMETHANE	3.04	142	745444	92.9585714	ppb		99
19) CARBON DISULFIDE	2.97	76	511981	25.1021769	ppb		99
20) ALLYL CHLORIDE	3.22	76	512564	126.9660415	ppb		72
21) METHYLENE CHLORIDE	3.29	84	172189	25.1068274	ppb		94
22) METHYL ACETATE	3.37	43	799867	124.7339980	ppb	#	95
23) ACRYLONITRILE	3.77	53	379113	124.9063212	ppb		98
24) n-HEXANE	3.42	56	194715	26.2099180	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.39	96	156598	25.1111558	ppb		97
26) METHYL TERT-BUTYL ETHER	3.43	73	532745	24.1771200	ppb		94
27) 1,1-DICHLOROETHANE	3.75	63	352122	25.7055435	ppb		99
28) VINYL ACETATE	3.85	43	2644712	165.0649280	ppb		98
29) DI-ISOPROPYL ETHER	3.63	45	817851	29.5353786	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.85	59	612697	25.5444275	ppb		98
31) 2,2-DICHLOROPROPANE	4.13	77	294268	26.3726365	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	176929	25.4627344	ppb		98
33) 2-BUTANONE (MEK)	4.36	43	573862	131.3997072	ppb		97
34) BROMOCHLOROMETHANE	4.18	130	90742	27.8270482	ppb		93
35) TETRAHYDROFURAN	4.31	42	65464	15.0349114	ppb	#	65
36) CHLOROFORM	4.20	83	315925	24.6962124	ppb		99
37) CYCLOHEXANE	4.20	84	278324	23.2786822	ppb		85

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,1,1-TRICHLOROETHANE	4.35	97	267538	25.6640880 ppb		99
40)	CARBON TETRACHLORIDE	4.31	117	223220	24.5384808 ppb		98
41)	1,1-DICHLOROPROPENE	4.41	75	252180	24.7591008 ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	675396	23.6475865 ppb		100
43)	n-Heptane	4.48	71	167364	23.4473182 ppb	#	84
44)	BENZENE	4.55	78	762628	25.2976136 ppb		98
45)	TERT-AMYL METHYL ETHER	4.58	73	580916	25.2643959 ppb		98
46)	1,2-DICHLOROETHANE	4.67	62	251019	25.0176136 ppb		100
47)	T-AMYL ALCOHOL	4.66	59	65513	66.9680856 ppb	#	77
49)	TRICHLOROETHENE	4.89	130	158308	26.0570693 ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	347857	24.5241191 ppb		91
51)	1,2-DICHLOROPROPANE	5.20	62	149720	28.7272483 ppb		97
52)	DIBROMOMETHANE	5.14	93	97519	26.8518708 ppb		98
53)	BROMODICHLOROMETHANE	5.22	83	234809	25.4758085 ppb		97
55)	2-CHLOROETHYL VINYL ETHER	5.52	63	269402	58.3544282 ppb		99
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	286653	25.7082154 ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	1005404	133.3616783 ppb		97
59)	TOLUENE	5.75	91	785232	27.0338325 ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	262298	25.2886137 ppb		98
62)	1,1,2-TRICHLOROETHANE	6.11	97	136853	25.1125252 ppb		96
63)	TETRACHLOROETHENE	6.01	164	120331	26.4892245 ppb		96
64)	1,3-DICHLOROPROPANE	6.30	76	274543	25.7694731 ppb		100
65)	2-HEXANONE	6.50	58	350353	122.3026913 ppb		90
66)	CHLORODIBROMOMETHANE	6.25	129	143405	25.9257938 ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	132422	24.0148115 ppb		98
68)	CHLOROBENZENE	6.77	112	446653	26.3913781 ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	139515	26.6909536 ppb		99
70)	ETHYLBENZENE	6.75	106	250957	25.1045413 ppb		95
71)	M&P-XYLENE	6.85	106	635132	51.4298104 ppb		94
72)	O-XYLENE	7.16	106	298463	25.7385376 ppb		98
73)	STYRENE	7.20	104	499727	26.1759787 ppb		99
74)	BROMOFORM	7.25	173	88174	25.4395507 ppb		98
75)	ISOPROPYLBENZENE	7.37	105	825103	25.6409404 ppb		99
77)	BROMOBENZENE	7.70	77	376804	25.6482226 ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	201021	25.3496542 ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.85	110	53248	24.0163037 ppb		82
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	51969	18.6611976 ppb	#	85
81)	N-PROPYLBENZENE	7.68	91	981779	25.2238811 ppb		99
82)	4-ETHYLTOLUENE	7.76	105	792461	25.5611750 ppb		99
83)	2-CHLOROTOLUENE	7.82	91	644076	25.1144175 ppb		99
84)	4-CHLOROTOLUENE	7.95	91	566080	24.4493338 ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	667601	24.5841779 ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	555365	25.0529932 ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	627755	23.9644645 ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	837518	24.7389298 ppb		99
89)	1,3-DICHLOROBENZENE	8.41	146	318276	26.2683187 ppb		99
90)	P-ISOPROPYLTOLUENE	8.30	119	653328	24.0600042 ppb		100
91)	DICYCLOPENTADIENE	8.32	66	916974	25.9206179 ppb		99
93)	1,4-DICHLOROBENZENE	8.47	146	326649	26.5125091 ppb		94
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	651709	24.7094836 ppb		100
95)	1,2-DICHLOROBENZENE	8.81	146	289597	27.3229057 ppb		98
96)	N-BUTYLBENZENE	8.64	91	595269	23.7910215 ppb		98
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	29379	22.7372109 ppb		95
98)	1,2,4-TRICHLOROBENZENE	10.01	180	148696	23.9665359 ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

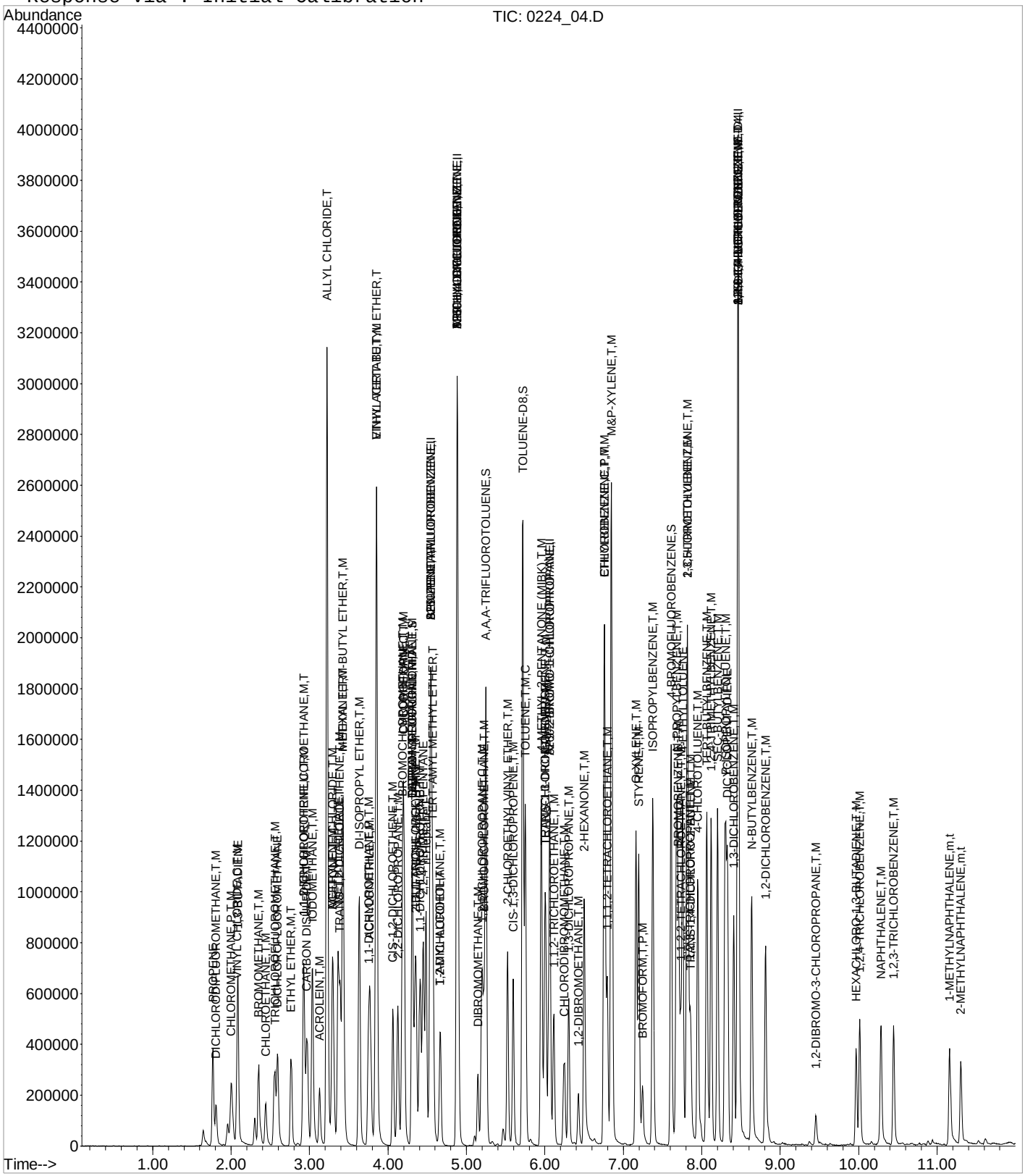
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	HEXACHLORO-1,3-BUTADIENE	9.96	225	66091	24.0013322	ppb	97
100)	NAPHTHALENE	10.29	128	387409	20.9828625	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.44	180	139197	24.3091231	ppb	98
102)	1-METHYLNAPHTHALENE	11.16	142	187235	22.5530335	ppb	99
103)	2-METHYLNAPHTHALENE	11.30	142	162441	20.5752235	ppb	100

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

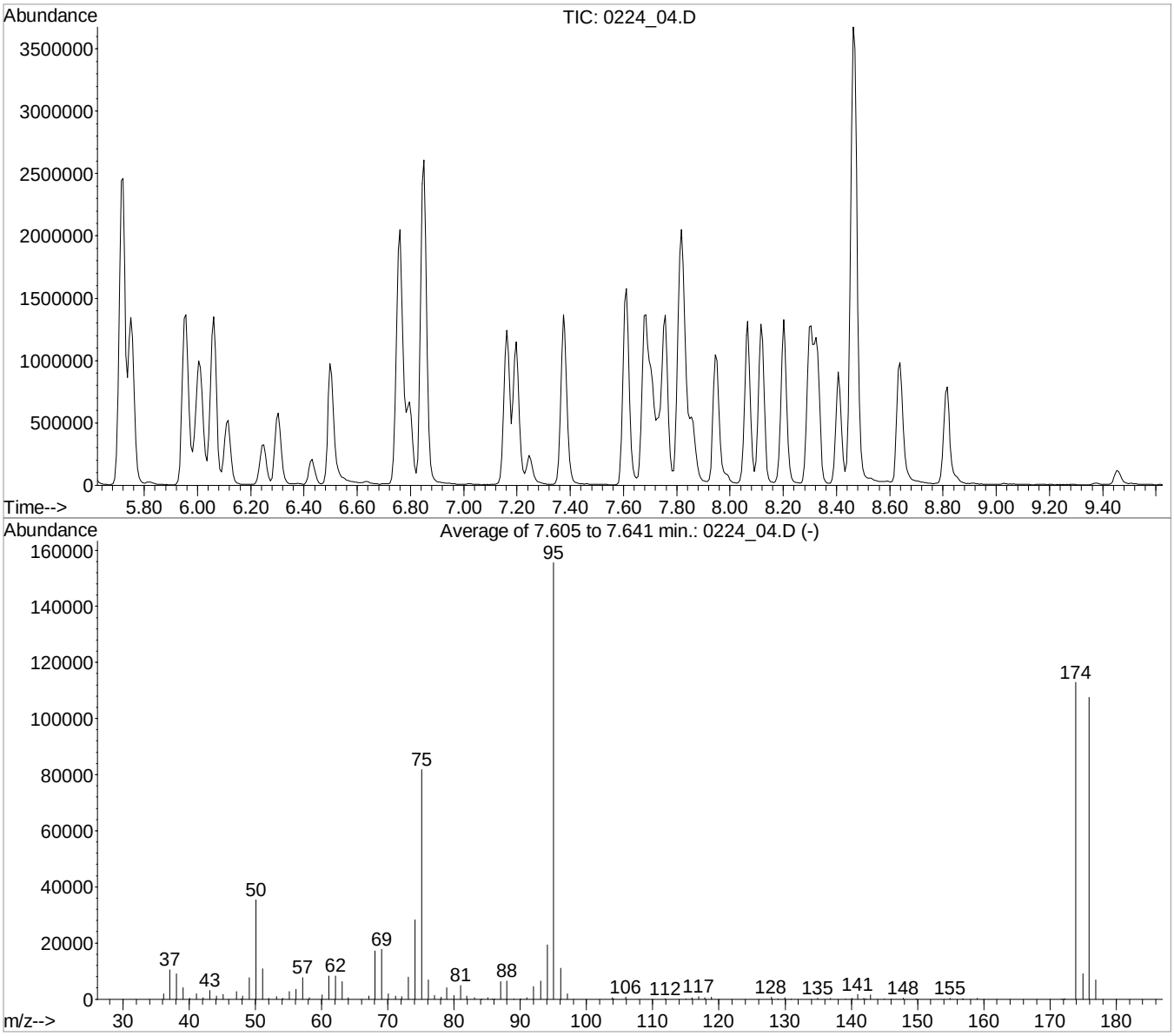
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 13:06 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



Spectrum Information: Average of 7.605 to 7.641 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	35421	PASS
75	95	30	60	52.6	81854	PASS
95	95	100	100	100.0	155593	PASS
96	95	5	9	7.1	11032	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.6	112886	PASS
175	174	5	9	8.0	8978	PASS
176	174	95	101	95.2	107477	PASS
177	176	5	9	6.3	6810	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Amy Green
Date Released : 2/27/2017 5:23:22 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0224_01	INSTBLK	V808A03Q					1	1	02/24/17 0650	"water "
2	0224_02	DNR ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0713	"water "
3	0224_03	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-1	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-2	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-3	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
3	0224_03-4	ICV GROMS 5.0 PPM	V808A03Q					1	1	02/24/17 0736	"water "
4	0224_04	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-1	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-2	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-3	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
4	0224_04-4	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 0812	"water "
5	0224_04T	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-1	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-2	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-3	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
5	0224_04T-4	ICV VMS 25 ppb	V808A03Q						1	02/24/17 0812	
6	0224_05	AP9CV 10A PPB	V808A03Q					1	1	02/24/17 0834	"water "
7	0224_06	LCS	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0900	"water "
7	0224_06-2	LCS	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0900	"water "
7	0224_06-3	LCS	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0900	"water "
8	0224_07	LCSD	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0923	"water "
8	0224_07-2	LCSD	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0923	"water "

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Injection Log

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Computer Name : VOCCOMPJ
Released By : Amy Green
Date Released : 2/27/2017 5:23:22 PM
Run ID : 022417
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
8	0224_07-3	LCSD	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0923	"water "
9	0224_08	LCSAP9	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 0946	"water "
9	0224_08-2	LCSAP9	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 0946	"water "
9	0224_08-3	LCSAP9	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 0946	"water "
10	0224_09	LCSGRO	V808A03Q	WG8W	DODV8260	GW		1	1	02/24/17 1009	"water "
10	0224_09-2	LCSGRO	V808A03Q	WG8W	V624TTO	WW		1	1	02/24/17 1009	"water "
10	0224_09-3	LCSGRO	V808A03Q	WG8W	V8260SC	GW		1	1	02/24/17 1009	"water "
10	0224_09-4	LCSGRO	V808A03Q	WG8W	V6200	GW		1	1	02/24/17 1009	"water "
10	0224_09-5	LCSGRO	V808A03Q	WG8W	V8260/465	GW		1	1	02/24/17 1009	"water "
10	0224_09-6	LCSGRO	V808A03Q	WG8W	V8260C	GW		1	1	02/24/17 1009	"water "
11	0224_10	INSTBLK	V808A03Q					1	1	02/24/17 1032	"water "
12	0224_11	BLANK	V808A03Q	WG955241	V8260OXYSC	GW		1	1	02/24/17 1055	"water "
12	0224_11-2	BLANK	V808A03Q	WG955241	V8260TCLNJTIC	GW		1	1	02/24/17 1055	"water "
12	0224_11-3	BLANK	V808A03Q	WG955241	V8260TCLNJ	GW		1	1	02/24/17 1055	"water "
13	0224_12	RL VMS 1 PPB	V808A03Q					1	1	02/24/17 1117	"water "
13	0224_12-1	RL VMS 1 PPB	V808A03Q					1	1	02/24/17 1117	"water "
14	0224_13	L891633-11	V808A03Q	WG955241	V8260TCLNJ	GW	NJ	1	1	02/24/17 1142	"water "
15	0224_14	L891788-65	V808A03Q	WG955241	V8260TCLNJTIC	GW	NJ	1	1	02/24/17 1205	"water "
16	0224_15	L891939-14	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1228	"water "
17	0224_16	L891939-15	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1251	"water "
18	0224_17	L890332-30	V808A03Q	WG955241	V8260OXYSC	GW	SC	1	1	02/24/17 1314	"water "
19	0224_18	L891633-10	V808A03Q	WG955241	V8260TCLNJ	GW	NJ	1	1	02/24/17 1336	"water "
20	0224_19	L891939-02	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1359	"water "

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Injection Log

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Run ID : 022417
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#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
21	0224_20	L891939-03	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1422	"water "
22	0224_21	L891939-04	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1445	"water "
23	0224_22	L891939-06	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1508	"water "
24	0224_23	L891939-08	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1531	"water "
25	0224_24	L891939-09	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1553	"water "
26	0224_25	L891939-10	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1616	"water "
27	0224_26	L891939-11	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1639	"water "
28	0224_27	L891939-12	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1702	"water "
29	0224_28	L891939-13	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1725	"water "
30	0224_29	L891939-16	V808A03Q	WG955241	V8260OXYSC	GW	NC	1	1	02/24/17 1748	"water "
31	0224_30	DNR L891939-01	V808A03Q	WG955241				5	5	02/24/17 1811	"water "
32	0224_31	L891939-05	V808A03Q	WG955241	V8260OXYSC	GW	NC	10	10	02/24/17 1833	"water "
33	0224_32	L891939-07	V808A03Q	WG955241	V8260OXYSC	GW	NC	25	25	02/24/17 1856	"water "
34	0224_33	MS	V808A03Q	WG955241	V8260OXYSC	GW		25	25	02/24/17 1919	"water "
34	0224_33-2	MS	V808A03Q	WG955241	V8260TCLNJTIC	GW		25	25	02/24/17 1919	"water "
34	0224_33-3	MS	V808A03Q	WG955241	V8260TCLNJ	GW		25	25	02/24/17 1919	"water "
35	0224_34	MSD	V808A03Q	WG955241	V8260OXYSC	GW		25	25	02/24/17 1942	"water "
35	0224_34-2	MSD	V808A03Q	WG955241	V8260TCLNJTIC	GW		25	25	02/24/17 1942	"water "
35	0224_34-3	MSD	V808A03Q	WG955241	V8260TCLNJ	GW		25	25	02/24/17 1942	"water "
36	0224_35	INSTBLK	V808A03Q					1	1	02/24/17 2005	"water "
37	0224_36	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 2028	"water "
37	0224_36-1	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 2028	"water "
37	0224_36-2	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 2028	"water "

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#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
37	0224_36-3	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 2028	"water "
37	0224_36-4	ICV VMS 25 PPB	V808A03Q					1	1	02/24/17 2028	"water "
38	0224_36T	ICV VMS 25 ppb	V808A03Q						1	02/24/17 2028	
39	0224_37	LCS	V808A03Q	WG955454	V8260	GW		1	1	02/24/17 2132	"water "
40	0224_38	LCSD	V808A03Q	WG955454	V8260	GW		1	1	02/24/17 2154	"water "
41	0224_39	INSTBLK	V808A03Q					1	1	02/24/17 2217	"water "
42	0224_40	BLANK	V808A03Q	WG955454	V8260	GW		1	1	02/24/17 2240	"water "
43	0224_41	L891400-09	V808A03Q	WG955454	V8260UGPA	GW	PA	1	1	02/24/17 2351	"water "
44	0224_42	L891966-11	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0013	"water "
45	0224_43	L892049-01	V808A03Q	WG955454	V8260	GW	TN	1	1	02/25/17 0036	"water "
46	0224_44	L891400-08	V808A03Q	WG955454	V8260UGPA	GW	PA	1	1	02/25/17 0059	"water "
47	0224_45	L891420-04	V808A03Q	WG955454	V8260	GW	AL	1	1	02/25/17 0122	"water "
48	0224_46	L891840-05	V808A03Q	WG955454	V8260	GW	NE	1	1	02/25/17 0145	"water "
49	0224_47	L891966-01	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0208	"water "
50	0224_48	L891966-02	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0230	"water "
51	0224_49	L891966-03	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0253	"water "
52	0224_50	L891966-04	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0316	"water "
53	0224_51	L891966-05	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0339	"water "
54	0224_52	L891966-06	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0402	"water "
55	0224_53	L891966-07	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0425	"water "
56	0224_54	L891966-08	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0448	"water "
57	0224_55	L891966-09	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0510	"water "
58	0224_56	L891966-10	V808A03Q	WG955454	V8260	GW	TX	1	1	02/25/17 0533	"water "

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Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
59	0224_57	L892039-02	V808A03Q	WG955454	V8260	GW	UT	1	1	02/25/17 0556	"water "
60	0224_58	L892049-02	V808A03Q	WG955454	V8260	GW	TN	1	1	02/25/17 0619	"water "
61	0224_59	L892057-07	V808A03Q	WG955454	V8260	GW	IL	1	1	02/25/17 0641	"water "
62	0224_60	L892057-08	V808A03Q	WG955454	V8260	GW	IL	1	1	02/25/17 0704	"water "

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_03.D Vial: 3
Acq On : 24 Feb 2017 7:36 am Operator: 605
Sample : ICV GROMS 5.0 ppm Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 10:23:13 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	566720	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	992629	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	187558	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	453950	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	567374	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	992629	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	187558	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	453950	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	290304	37.9924906	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.98%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	528032	42.9885472	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.47%				
58) TOLUENE-D8	5.72	98	1267110	41.2592046	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.15%				
76) 4-BROMOFLUOROBENZENE	7.61	95	475239	41.2982955	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.25%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	5.75	TIC	159653334m	4.2527323	ppm		
4) PROPENE	1.76	41	2416	0.4438074	ppb	#	84
6) CHLOROMETHANE	2.02	50	24016	2.1460512	ppb	#	69
8) 1,3-BUTADIENE	2.08	39	43782	5.9490956	ppb	#	13
12) DICHLOROFLUOROMETHANE	2.57	67	7568	0.5485784	ug/l	#	1
14) ACROLEIN	3.13	56	237660	1805.0719238	ppb	#	28
17) ACETONE	3.27	43	394685	159.9686978	ppb	#	77
18) IODOMETHANE	3.03	142	3881	0.5262102	ppb	#	83
21) METHYLENE CHLORIDE	3.29	84	1191	0.1888162	ppb	#	1
22) METHYL ACETATE	3.41	43	1124834	190.7201902	ppb	#	57
23) ACRYLONITRILE	3.75	53	7076	2.5348061	ppb	#	41
24) n-HEXANE	3.41	56	925938	135.5156131	ppb	#	54
26) METHYL TERT-BUTYL ETHER	3.43	73	19538	0.9640653	ppb	#	1
28) VINYL ACETATE	3.88	43	16487	1.1188175	ppb	#	77
33) 2-BUTANONE (MEK)	4.38	43	134468	33.4770398	ppb	#	64
35) TETRAHYDROFURAN	4.32	42	5763	1.4390906	ppb	#	1
36) CHLOROFORM	4.19	83	27253	2.3163375	ppb	#	1
37) CYCLOHEXANE	4.19	84	356206	32.3929228	ppb	#	1
39) 1,1,1-TRICHLOROETHANE	4.39	97	2330	0.2430174	ppb	#	22
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	1596480	60.7761231	ppb		96
43) n-Heptane	4.49	71	393869	59.9962496	ppb	#	85
44) BENZENE	4.55	78	1189926	42.9168596	ppb		100
45) TERT-AMYL METHYL ETHER	4.55	73	21943	1.0376067	ppb	#	47
50) METHYL CYCLOHEXANE	4.89	83	751132	57.7405286	ppb	#	61
51) 1,2-DICHLOROPROPANE	5.18	62	2244	0.4607596	ppb	#	1
52) DIBROMOMETHANE	5.12	93	1480	0.4360983	ppb	#	1
53) BROMODICHLOROMETHANE	5.26	83	10711	1.2435996	ppb	#	1
55) 2-CHLOROETHYL VINYL ETHER	5.50	63	1269	0.2941521	ppb	#	1
57) 4-METHYL-2-PENTANONE (MIBK	5.93	43	43980	6.2428514	ppb	#	43
59) TOLUENE	5.75	91	8805702	324.4224801	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	9824	1.0135746	ppb	#	1
62) 1,1,2-TRICHLOROETHANE	6.12	97	20397	4.0616616	ppb	#	1
65) 2-HEXANONE	6.48	58	591	0.2238819	ppb	#	1
70) ETHYLBENZENE	6.75	106	617841	67.0704276	ppb		97
71) M&P-XYLENE	6.84	106	3192249	280.5104618	ppb		94

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

Data File : C:\MSDCHEM\1\DATA\022417\0224_03.D Vial: 3
Acq On : 24 Feb 2017 7:36 am Operator: 605
Sample : ICV GROMS 5.0 ppm Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 10:23:13 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

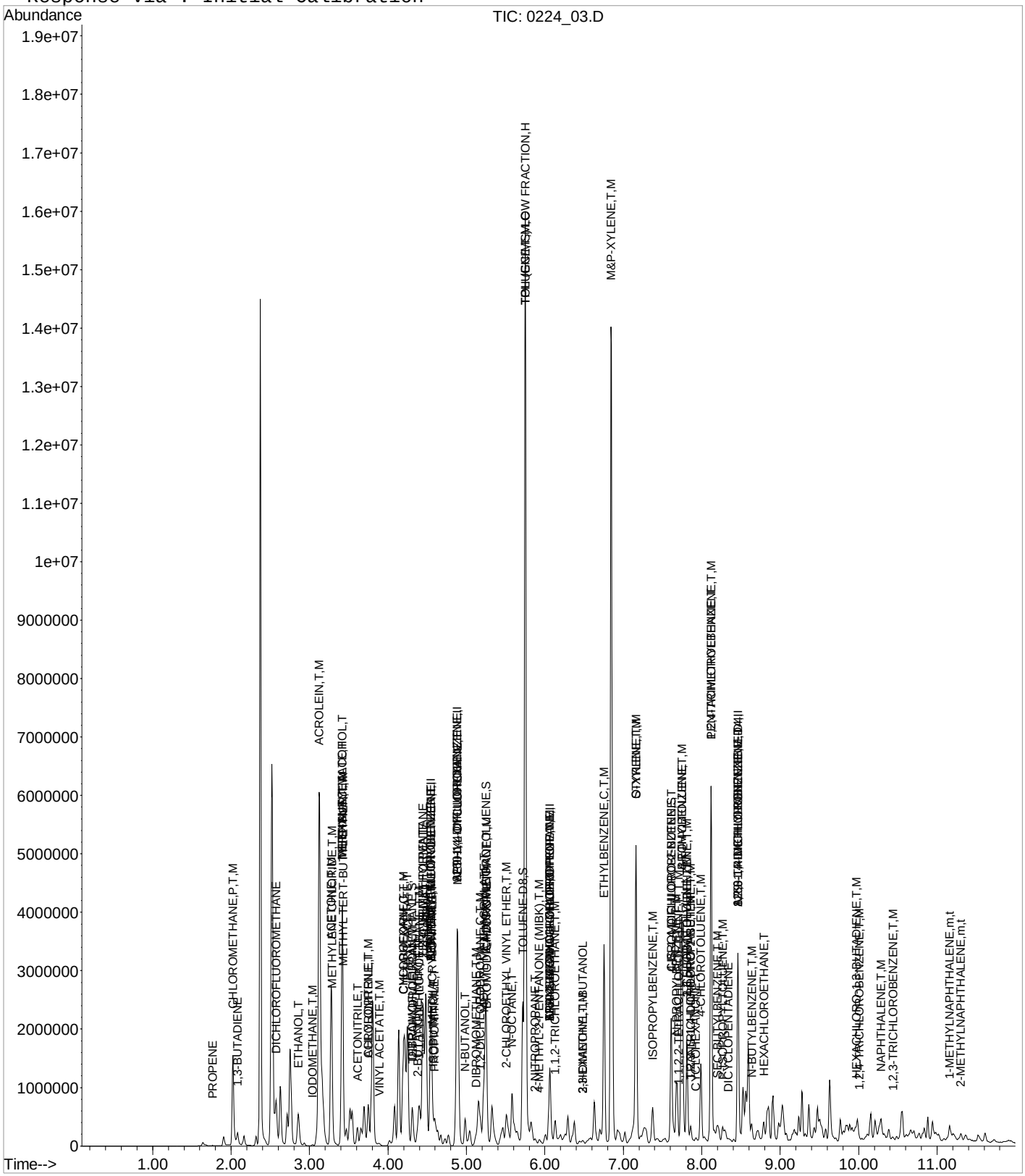
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
72)	O-XYLENE	7.16	106	1197955	112.1076493	ppb		98
73)	STYRENE	7.16	104	61280	3.4832949	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	229863	7.7516870	ppb		99
77)	BROMOBENZENE	7.74	77	362144	26.7500402	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.71	83	11274	1.5428014	ppb	#	27
79)	1,2,3-TRICHLOROPROPANE	7.86	110	2004	0.9808486	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	5339	2.0804460	ppb	#	31
81)	N-PROPYLBENZENE	7.68	91	707473	19.7246551	ppb		99
82)	4-ETHYLTOLUENE	7.74	105	2824524	98.8665909	ppb		98
83)	2-CHLOROTOLUENE	7.81	91	85023	3.5976904	ppb	#	48
84)	4-CHLOROTOLUENE	7.99	91	90215	4.2283346	ppb	#	52
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	783833	31.3230202	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	2895802	119.9631294	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	88486	2.8363688	ppb	#	79
90)	P-ISOPROPYLTOLUENE	8.27	119	125443	5.0131677	ppb	#	92
91)	DICYCLOPENTADIENE	8.33	66	4479	0.1373949	ppb	#	72
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	687086	25.5004010	ppb		100
96)	N-BUTYLBENZENE	8.64	91	112447	4.3991995	ppb	#	88
98)	1,2,4-TRICHLOROBENZENE	10.01	180	1400	0.2208818	ppb	#	48
99)	HEXACHLORO-1,3-BUTADIENE	9.96	225	1516	0.5389124	ppb	#	50
100)	NAPHTHALENE	10.29	128	184099	9.7605079	ppb	#	85
101)	1,2,3-TRICHLOROBENZENE	10.44	180	3639	0.6220817	ppb	#	46
102)	1-METHYLNAPHTHALENE	11.16	142	103693	12.2262516	ppb		97
103)	2-METHYLNAPHTHALENE	11.30	142	51499	6.3851876	ppb	#	94
105)	ETHANOL	2.86	45	49279	690.4032212	ppb	#	93
108)	ACETONITRILE	3.61	41	112203	105.1679761	ppb	#	47
109)	TERT-BUTYL ALCOHOL	3.41	59	774	0.7165745	ppb	#	1
110)	CHLOROPRENE	3.75	53	6926	0.6404866	ppb	#	29
111)	PROPIONITRILE	4.60	54	15685	12.0722466	ppb	#	1
112)	ETHYL ACETATE	4.24	43	1375036	168.0817039	ppb	#	55
113)	METHACRYLONITRILE	4.57	67	12943	4.4209060	ppb	#	1
114)	TERT-BUTYL FORMATE	4.44	59	1330	0.2231369	ppb	#	1
115)	ISOBUTANOL	4.58	43	25285	59.1124673	ppb	#	79
117)	N-BUTANOL	4.98	56	74226	389.9033858	ppb	#	28
118)	2-NITROPROPANE	5.87	43	24891	11.0562968	ppb	#	49
119)	METHYL METHACRYLATE	5.22	41	311365	40.1195062	ppb	#	19
120)	1,4-DIOXANE	5.24	88	8085	152.9208419	ppb	#	1
121)	N-OCTANE	5.59	85	102354	20.7483852	ppb		88
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	13520	40.3569832	ppb	#	64
124)	ETHYL METHACRYLATE	6.07	69	31940	4.1910265	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.62	53	14753	5.2072468	ppb	#	36
126)	CYCLOHEXANONE	7.92	55	6492	30.4865083	ppb	#	38
127)	PENTACHLOROETHANE	8.12	117	95635	29.3142125	ppb	#	14
128)	HEXACHLOROETHANE	8.79	117	4233	1.0553649	ppb	#	78

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_03.D Vial: 3
Acq On : 24 Feb 2017 7:36 am Operator: 605
Sample : ICV GROMS 5.0 ppm Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 10:23 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	616183	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1062244	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	203534	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	444359	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	617171	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1062244	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	203534	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	444359	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	310264	37.3452146	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.36%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	576599	43.8661059	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.67%				
58) TOLUENE-D8	5.72	98	1382077	42.0534321	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.13%				
76) 4-BROMOFLUOROBENZENE	7.61	95	511525	40.9624140	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.41%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	2097159m	Below Cal			
4) PROPENE	1.77	41	216643	36.6016863	ppb		98
5) DICHLORODIFLUOROMETHANE	1.81	85	136327	15.0639982	ppb		98
6) CHLOROMETHANE	2.00	50	296308	24.3523906	ppb		98
7) VINYL CHLORIDE	2.07	62	211876	21.1923565	ppb	#	86
8) 1,3-BUTADIENE	2.09	39	241476	30.1778399	ppb		93
9) BROMOMETHANE	2.35	94	130589	16.4892641	ppb		95
10) CHLOROETHANE	2.44	64	146823	22.6055214	ppb		99
11) TRICHLOROFLUOROMETHANE	2.56	101	220429	21.8492858	ppb		100
12) DICHLOROFLUOROMETHANE	2.59	67	338288	22.5529303	ug/l		99
13) ETHYL ETHER	2.76	59	166093	26.5302064	ppb		94
14) ACROLEIN	3.13	56	169719	1190.7100279	ppb		100
15) 1,1-DICHLOROETHENE	2.92	96	141736	25.0305978	ppb		98
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	138890	23.8407442	ppb		96
17) ACETONE	3.30	43	442442	164.9299632	ppb		99
18) IODOMETHANE	3.04	142	745444	92.9585714	ppb		99
19) CARBON DISULFIDE	2.97	76	511981	25.1021769	ppb		99
20) ALLYL CHLORIDE	3.22	76	512564	126.9660415	ppb		72
21) METHYLENE CHLORIDE	3.29	84	172189	25.1068274	ppb		94
22) METHYL ACETATE	3.37	43	799867	124.7339980	ppb	#	95
23) ACRYLONITRILE	3.77	53	379113	124.9063212	ppb		98
24) n-HEXANE	3.42	56	194715	26.2099180	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.39	96	156598	25.1111558	ppb		97
26) METHYL TERT-BUTYL ETHER	3.43	73	532745	24.1771200	ppb		94
27) 1,1-DICHLOROETHANE	3.75	63	352122	25.7055435	ppb		99
28) VINYL ACETATE	3.85	43	2644712	165.0649280	ppb		98
29) DI-ISOPROPYL ETHER	3.63	45	817851	29.5353786	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.85	59	612697	25.5444275	ppb		98
31) 2,2-DICHLOROPROPANE	4.13	77	294268	26.3726365	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	176929	25.4627344	ppb		98
33) 2-BUTANONE (MEK)	4.36	43	573862	131.3997072	ppb		97
34) BROMOCHLOROMETHANE	4.18	130	90742	27.8270482	ppb		93
35) TETRAHYDROFURAN	4.31	42	65464	15.0349114	ppb	#	65
36) CHLOROFORM	4.20	83	315925	24.6962124	ppb		99
37) CYCLOHEXANE	4.20	84	278324	23.2786822	ppb		85

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,1,1-TRICHLOROETHANE	4.35	97	267538	25.6640880 ppb		99
40)	CARBON TETRACHLORIDE	4.31	117	223220	24.5384808 ppb		98
41)	1,1-DICHLOROPROPENE	4.41	75	252180	24.7591008 ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	675396	23.6475865 ppb		100
43)	n-Heptane	4.48	71	167364	23.4473182 ppb	#	84
44)	BENZENE	4.55	78	762628	25.2976136 ppb		98
45)	TERT-AMYL METHYL ETHER	4.58	73	580916	25.2643959 ppb		98
46)	1,2-DICHLOROETHANE	4.67	62	251019	25.0176136 ppb		100
47)	T-AMYL ALCOHOL	4.66	59	65513	66.9680856 ppb	#	77
49)	TRICHLOROETHENE	4.89	130	158308	26.0570693 ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	347857	24.5241191 ppb		91
51)	1,2-DICHLOROPROPANE	5.20	62	149720	28.7272483 ppb		97
52)	DIBROMOMETHANE	5.14	93	97519	26.8518708 ppb		98
53)	BROMODICHLOROMETHANE	5.22	83	234809	25.4758085 ppb		97
55)	2-CHLOROETHYL VINYL ETHER	5.52	63	269402	58.3544282 ppb		99
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	286653	25.7082154 ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	1005404	133.3616783 ppb		97
59)	TOLUENE	5.75	91	785232	27.0338325 ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	262298	25.2886137 ppb		98
62)	1,1,2-TRICHLOROETHANE	6.11	97	136853	25.1125252 ppb		96
63)	TETRACHLOROETHENE	6.01	164	120331	26.4892245 ppb		96
64)	1,3-DICHLOROPROPANE	6.30	76	274543	25.7694731 ppb		100
65)	2-HEXANONE	6.50	58	350353	122.3026913 ppb		90
66)	CHLORODIBROMOMETHANE	6.25	129	143405	25.9257938 ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	132422	24.0148115 ppb		98
68)	CHLOROBENZENE	6.77	112	446653	26.3913781 ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	139515	26.6909536 ppb		99
70)	ETHYLBENZENE	6.75	106	250957	25.1045413 ppb		95
71)	M&P-XYLENE	6.85	106	635132	51.4298104 ppb		94
72)	O-XYLENE	7.16	106	298463	25.7385376 ppb		98
73)	STYRENE	7.20	104	499727	26.1759787 ppb		99
74)	BROMOFORM	7.25	173	88174	25.4395507 ppb		98
75)	ISOPROPYLBENZENE	7.37	105	825103	25.6409404 ppb		99
77)	BROMOBENZENE	7.70	77	376804	25.6482226 ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	201021	25.3496542 ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.85	110	53248	24.0163037 ppb		82
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	51969	18.6611976 ppb	#	85
81)	N-PROPYLBENZENE	7.68	91	981779	25.2238811 ppb		99
82)	4-ETHYLTOLUENE	7.76	105	792461	25.5611750 ppb		99
83)	2-CHLOROTOLUENE	7.82	91	644076	25.1144175 ppb		99
84)	4-CHLOROTOLUENE	7.95	91	566080	24.4493338 ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	667601	24.5841779 ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	555365	25.0529932 ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	627755	23.9644645 ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	837518	24.7389298 ppb		99
89)	1,3-DICHLOROBENZENE	8.41	146	318276	26.2683187 ppb		99
90)	P-ISOPROPYLTOLUENE	8.30	119	653328	24.0600042 ppb		100
91)	DICYCLOPENTADIENE	8.32	66	916974	25.9206179 ppb		99
93)	1,4-DICHLOROBENZENE	8.47	146	326649	26.5125091 ppb		94
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	651709	24.7094836 ppb		100
95)	1,2-DICHLOROBENZENE	8.81	146	289597	27.3229057 ppb		98
96)	N-BUTYLBENZENE	8.64	91	595269	23.7910215 ppb		98
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	29379	22.7372109 ppb		95
98)	1,2,4-TRICHLOROBENZENE	10.01	180	148696	23.9665359 ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 08:44:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

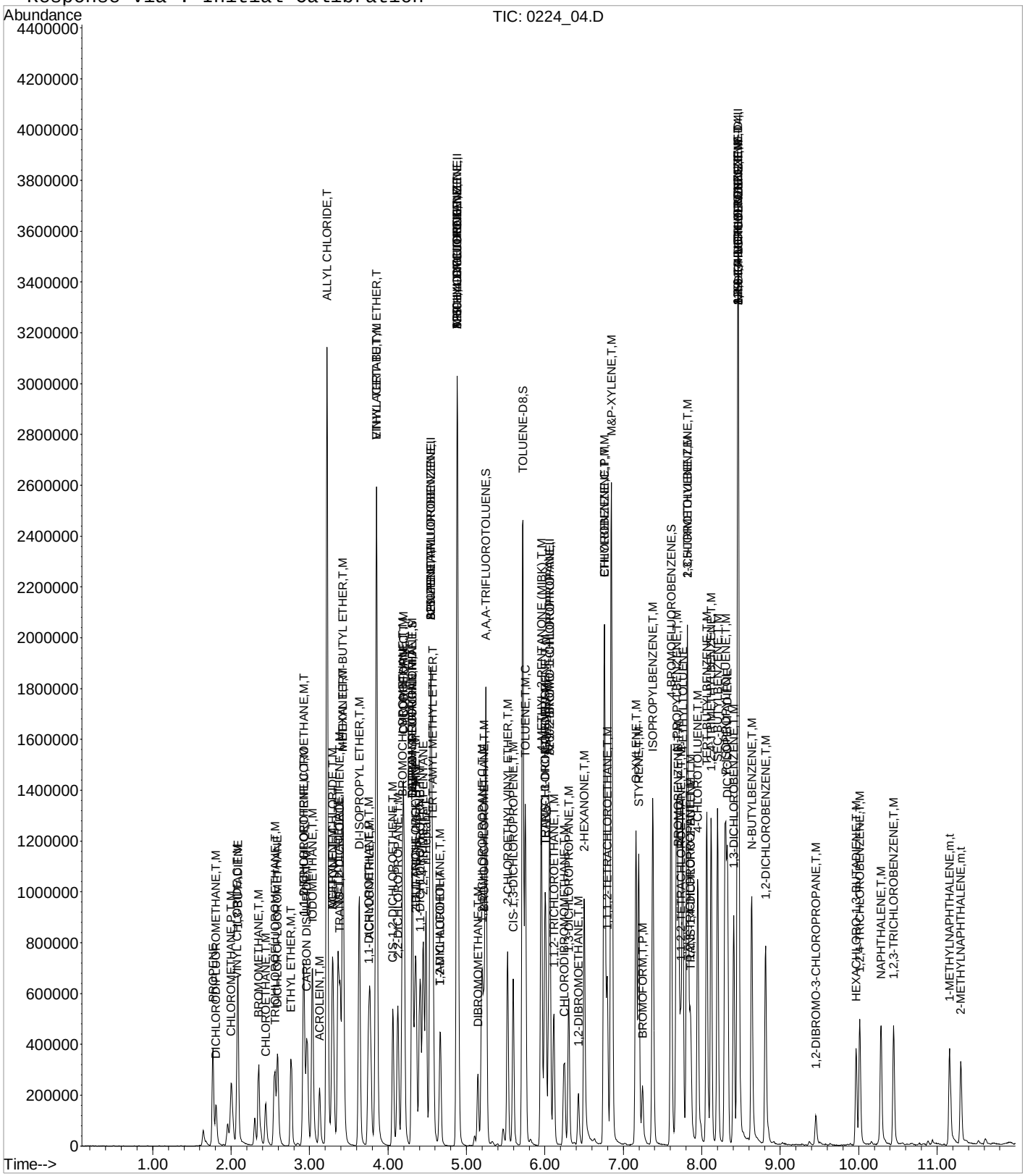
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	HEXACHLORO-1,3-BUTADIENE	9.96	225	66091	24.0013322	ppb	97
100)	NAPHTHALENE	10.29	128	387409	20.9828625	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.44	180	139197	24.3091231	ppb	98
102)	1-METHYLNAPHTHALENE	11.16	142	187235	22.5530335	ppb	99
103)	2-METHYLNAPHTHALENE	11.30	142	162441	20.5752235	ppb	100

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

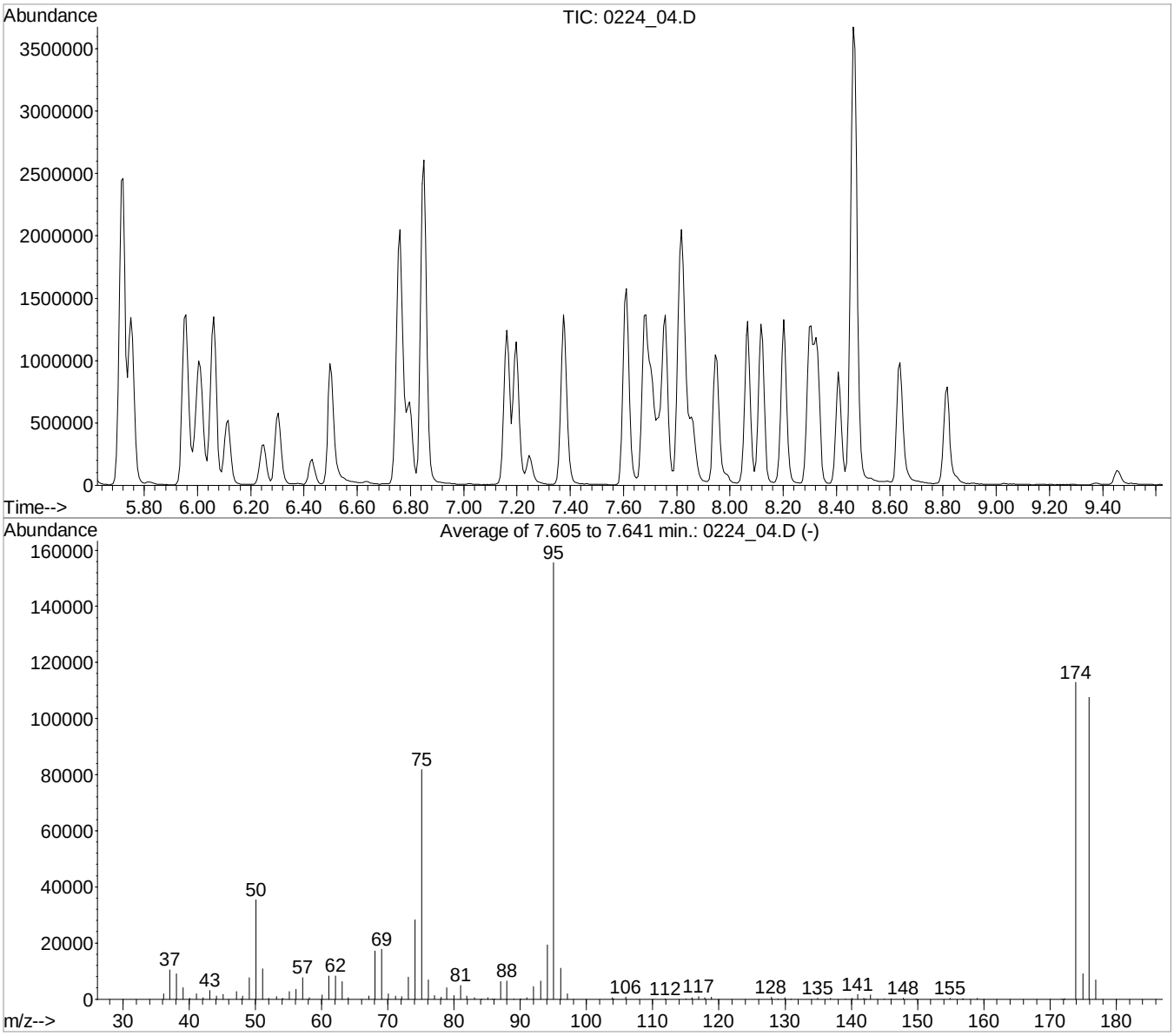
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 24 13:06 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\022417\0224_04.D Vial: 4
Acq On : 24 Feb 2017 8:12 am Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



Spectrum Information: Average of 7.605 to 7.641 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	35421	PASS
75	95	30	60	52.6	81854	PASS
95	95	100	100	100.0	155593	PASS
96	95	5	9	7.1	11032	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.6	112886	PASS
175	174	5	9	8.0	8978	PASS
176	174	95	101	95.2	107477	PASS
177	176	5	9	6.3	6810	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_36.D Vial: 36
Acq On : 24 Feb 2017 8:28 pm Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:09 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	653320	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1121055	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	217605	40.00	ppb		-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	485314	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	654675	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1121055	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	217605	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	485314	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	339095	38.4953894	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.24%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	603951	43.5365759	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.84%				
58) TOLUENE-D8	5.72	98	1458658	42.0552337	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.14%				
76) 4-BROMOFLUOROBENZENE	7.61	95	526537	39.4380716	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.60%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	2400946m	Below Cal			
4) PROPENE	1.76	41	263995	42.0664530	ppb		99
5) DICHLORODIFLUOROMETHANE	1.81	85	214486	22.3532711	ppb		100
6) CHLOROMETHANE	2.00	50	334135	25.9002498	ppb		98
7) VINYL CHLORIDE	2.07	62	268642	25.3428328	ppb		98
8) 1,3-BUTADIENE	2.08	39	280718	33.0878232	ppb		95
9) BROMOMETHANE	2.35	94	133699	15.9223291	ppb		98
10) CHLOROETHANE	2.44	64	166473	24.1739712	ppb		97
11) TRICHLOROFLUOROMETHANE	2.55	101	240494	22.4831170	ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	350382	22.0313917	ug/l		99
13) ETHYL ETHER	2.77	59	174541	26.2948392	ppb		94
14) ACROLEIN	3.13	56	185077	1224.2225780	ppb		99
15) 1,1-DICHLOROETHENE	2.92	96	146487	24.3991048	ppb		97
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	157617	25.5173545	ppb		98
17) ACETONE	3.30	43	538148	189.2032991	ppb		98
18) IODOMETHANE	3.03	142	863399	101.5476126	ppb		99
19) CARBON DISULFIDE	2.97	76	550075	25.4368429	ppb		98
20) ALLYL CHLORIDE	3.22	76	543869	127.0625431	ppb		78
21) METHYLENE CHLORIDE	3.29	84	180782	24.8613884	ppb		93
22) METHYL ACETATE	3.37	43	904870	133.0874218	ppb	#	94
23) ACRYLONITRILE	3.77	53	422031	131.1426190	ppb		99
24) n-HEXANE	3.42	56	209737	26.6271733	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.39	96	167876	25.3894249	ppb		100
26) METHYL TERT-BUTYL ETHER	3.43	73	564504	24.1621717	ppb		92
27) 1,1-DICHLOROETHANE	3.75	63	374397	25.7780315	ppb		98
28) VINYL ACETATE	3.85	43	2629805	154.8045519	ppb		98
29) DI-ISOPROPYL ETHER	3.63	45	845110	28.7849416	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.84	59	650245	25.5688502	ppb		98
31) 2,2-DICHLOROPROPANE	4.12	77	299595	25.3237975	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	183298	24.8798353	ppb		96
33) 2-BUTANONE (MEK)	4.36	43	661162	142.7836808	ppb		99
34) BROMOCHLOROMETHANE	4.18	130	96381	27.8762262	ppb		88
35) TETRAHYDROFURAN	4.31	42	73838	15.9941815	ppb	#	63
36) CHLOROFORM	4.20	83	344181	25.3756403	ppb		99
37) CYCLOHEXANE	4.20	84	320329	25.2689822	ppb		92

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_36.D Vial: 36
Acq On : 24 Feb 2017 8:28 pm Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:09 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,1,1-TRICHLOROETHANE	4.35	97	272777	24.6792449	ppb		99
40)	CARBON TETRACHLORIDE	4.31	117	234692	24.3330536	ppb		97
41)	1,1-DICHLOROPROPENE	4.41	75	268763	24.8872819	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.44	57	707139	23.3516131	ppb		99
43)	n-Heptane	4.49	71	172743	22.8252397	ppb	#	89
44)	BENZENE	4.55	78	808224	25.2861267	ppb		98
45)	TERT-AMYL METHYL ETHER	4.57	73	613664	25.1715515	ppb		98
46)	1,2-DICHLOROETHANE	4.66	62	268763	25.2634422	ppb		100
47)	T-AMYL ALCOHOL	4.66	59	78623	75.8007961	ppb	#	85
49)	TRICHLOROETHENE	4.88	130	165262	25.7746678	ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	384927	25.7535852	ppb		94
51)	1,2-DICHLOROPROPANE	5.19	62	155209	28.2181461	ppb		98
52)	DIBROMOMETHANE	5.14	93	103186	26.9217603	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	250224	25.7240631	ppb		100
55)	2-CHLOROETHYL VINYL ETHER	5.52	63	290898	59.7050553	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	299467	25.4484759	ppb		100
57)	4-METHYL-2-PENTANONE (MIBK	5.95	43	1090546	137.0666503	ppb		99
59)	TOLUENE	5.75	91	826781	26.9710269	ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	273817	25.0142692	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.11	97	147347	25.2898037	ppb		97
63)	TETRACHLOROETHENE	6.01	164	127947	26.3444977	ppb		98
64)	1,3-DICHLOROPROPANE	6.30	76	289214	25.3911618	ppb		99
65)	2-HEXANONE	6.50	58	429401	140.2042964	ppb		92
66)	CHLORODIBROMOMETHANE	6.24	129	154233	26.0803355	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	142190	24.1188275	ppb		99
68)	CHLOROBENZENE	6.77	112	475679	26.2889893	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	150613	26.9509292	ppb	#	99
70)	ETHYLBENZENE	6.76	106	270161	25.2780593	ppb		97
71)	M&P-XYLENE	6.85	106	675592	51.1685988	ppb		97
72)	O-XYLENE	7.16	106	324280	26.1566204	ppb		95
73)	STYRENE	7.19	104	527663	25.8520421	ppb	#	85
74)	BROMOFORM	7.25	173	93088	25.1206395	ppb		98
75)	ISOPROPYLBENZENE	7.38	105	884315	25.7040095	ppb		100
77)	BROMOBENZENE	7.70	77	404716	25.7667855	ppb		98
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	212037	25.0098081	ppb		97
79)	1,2,3-TRICHLOROPROPANE	7.85	110	59059	24.9147798	ppb		82
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	54097	18.1692261	ppb	#	89
81)	N-PROPYLBENZENE	7.68	91	1041720	25.0332521	ppb		100
82)	4-ETHYLTOLUENE	7.75	105	815000	24.5883067	ppb		98
83)	2-CHLOROTOLUENE	7.83	91	678479	24.7451734	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	626747	25.3191767	ppb		97
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	717274	24.7054005	ppb		99
86)	TERT-BUTYLBENZENE	8.06	119	574997	24.2613403	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	670181	23.9297277	ppb		97
88)	SEC-BUTYLBENZENE	8.20	105	869901	24.0339241	ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	330084	25.4812633	ppb		99
90)	P-ISOPROPYLTOLUENE	8.30	119	678065	23.3562897	ppb		99
91)	DICYCLOPENTADIENE	8.32	66	978958	25.8833501	ppb		99
93)	1,4-DICHLOROBENZENE	8.47	146	334037	24.8241984	ppb		98
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	684374	23.7582591	ppb		98
95)	1,2-DICHLOROBENZENE	8.81	146	310975	26.8639247	ppb		99
96)	N-BUTYLBENZENE	8.63	91	615343	22.5179188	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	34445	24.4082999	ppb		92
98)	1,2,4-TRICHLOROBENZENE	10.02	180	162800	24.0254506	ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_36.D Vial: 36
Acq On : 24 Feb 2017 8:28 pm Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:09 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

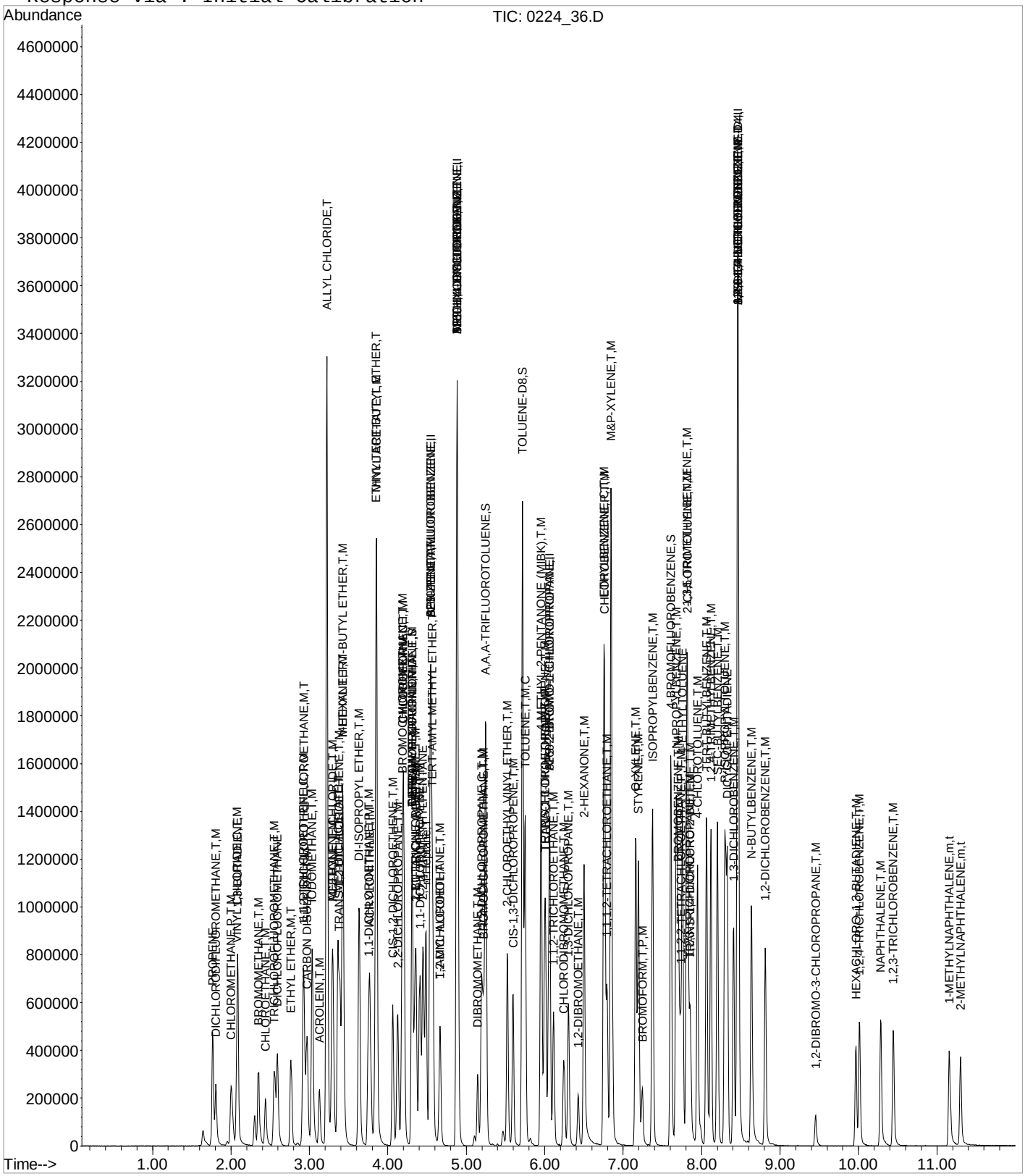
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	74679	24.8314843	ppb	98
100)	NAPHTHALENE	10.29	128	429855	21.3171024	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.45	180	149289	23.8714274	ppb	98
102)	1-METHYLNAPHTHALENE	11.16	142	201141	22.1834810	ppb	99
103)	2-METHYLNAPHTHALENE	11.30	142	185311	21.4912298	ppb	99

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

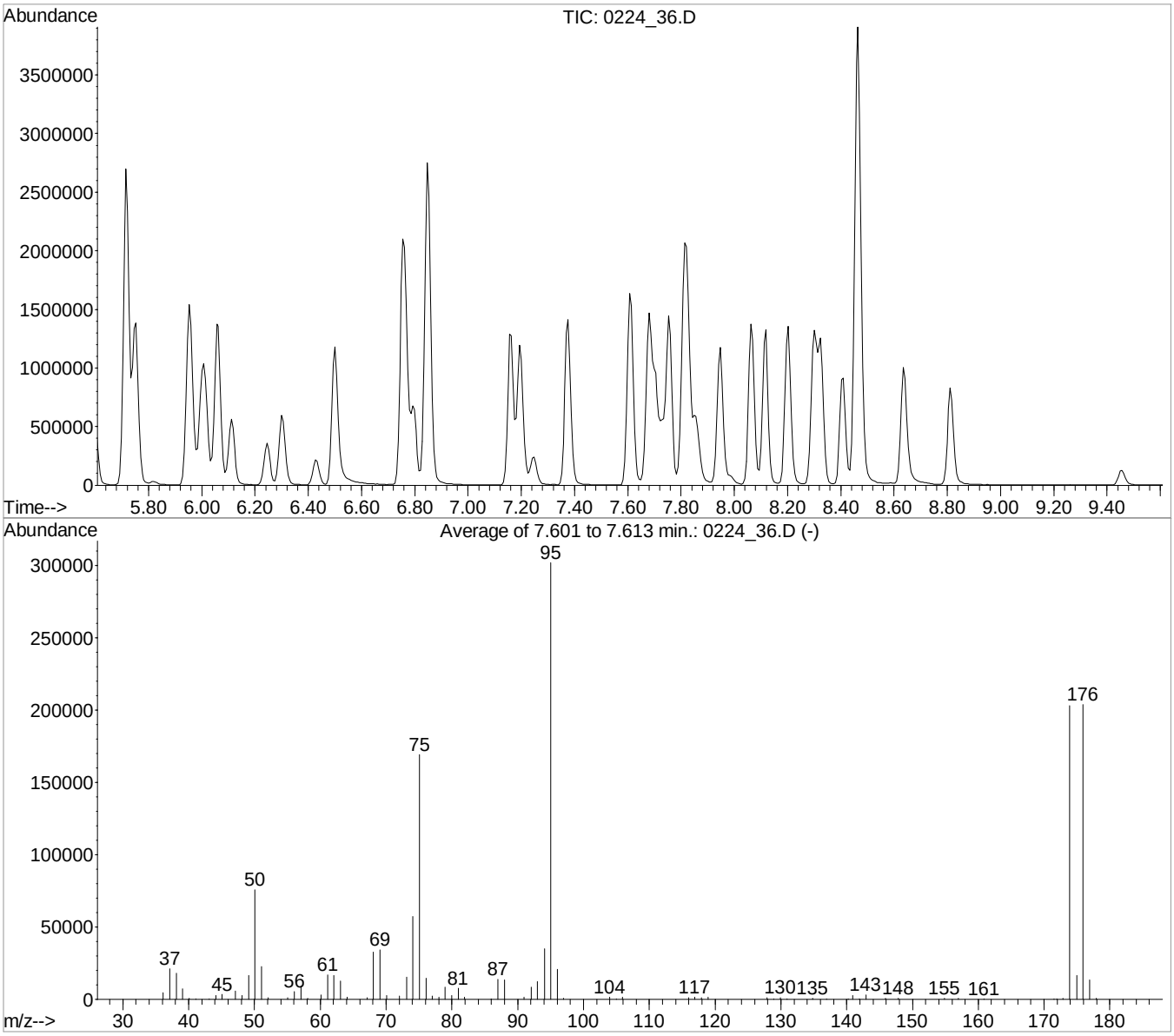
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_36.D Vial: 36
Acq On : 24 Feb 2017 8:28 pm Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:59 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\022417\0224_36.D Vial: 36
Acq On : 24 Feb 2017 8:28 pm Operator: 605
Sample : ICV VMS 25 ppb Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



AutoFind: Scans 1235, 1236, 1237; Background Corrected with Scan 1229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	75432	PASS
75	95	30	60	56.0	169173	PASS
95	95	100	100	100.0	301866	PASS
96	95	5	9	6.8	20490	PASS
173	174	0.00	2	0.4	726	PASS
174	95	50	150	67.2	202986	PASS
175	174	5	9	8.1	16355	PASS
176	174	95	101	100.4	203754	PASS
177	176	5	9	6.6	13446	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_37.D Vial: 37
Acq On : 24 Feb 2017 9:32 pm Operator: 605
Sample : LCS 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:12 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	630399	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1145180	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	220477	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	499261	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	631526	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1145180	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	220477	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	499261	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	340181	40.0228326	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.06%				
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	602598	42.5239321	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.31%				
58) TOLUENE-D8	5.72	98	1427067	40.2776479	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.69%				
76) 4-BROMOFLUOROBENZENE	7.61	95	521842	38.5772607	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.44%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	2977271m	Below Cal			
4) PROPENE	1.77	41	198779	32.8262393	ppb		99
5) DICHLORODIFLUOROMETHANE	1.81	85	231534	25.0073314	ppb		97
6) CHLOROMETHANE	2.00	50	348178	27.9700825	ppb		98
7) VINYL CHLORIDE	2.08	62	292427	28.5896706	ppb		98
8) 1,3-BUTADIENE	2.09	39	241520	29.5026803	ppb		95
9) BROMOMETHANE	2.35	94	165654	20.4451736	ppb		97
10) CHLOROETHANE	2.44	64	182547	27.4719402	ppb		99
11) TRICHLOROFLUOROMETHANE	2.56	101	248527	24.0788804	ppb		100
12) DICHLOROFLUOROMETHANE	2.59	67	375880	24.4940049	ug/l		99
13) ETHYL ETHER	2.76	59	172756	26.9722165	ppb		95
14) ACROLEIN	3.13	56	205645	1407.4630434	ppb		100
15) 1,1-DICHLOROETHENE	2.92	96	150439	25.9684294	ppb		97
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	151585	25.4330975	ppb		98
17) ACETONE	3.30	43	355823	129.6496740	ppb		98
18) IODOMETHANE	3.04	142	926247	112.9003865	ppb		99
19) CARBON DISULFIDE	2.97	76	561490	26.9087649	ppb		99
20) ALLYL CHLORIDE	3.22	76	581316	140.7492057	ppb		83
21) METHYLENE CHLORIDE	3.29	84	189399	26.9934448	ppb		95
22) METHYL ACETATE	3.37	43	923444	140.7575905	ppb	#	95
23) ACRYLONITRILE	3.77	53	428049	137.8489379	ppb		98
24) n-HEXANE	3.42	56	200720	26.4089479	ppb		96
25) TRANS-1,2-DICHLOROETHENE	3.39	96	171397	26.8644469	ppb		96
26) METHYL TERT-BUTYL ETHER	3.43	73	541335	24.0129484	ppb		92
27) 1,1-DICHLOROETHANE	3.75	63	378314	26.9948079	ppb		97
28) VINYL ACETATE	3.85	43	2791953	170.3251267	ppb		98
29) DI-ISOPROPYL ETHER	3.63	45	827078	29.1950362	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.84	59	680695	27.7394072	ppb		98
31) 2,2-DICHLOROPROPANE	4.13	77	288873	25.3053099	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	196258	27.6075319	ppb		99
33) 2-BUTANONE (MEK)	4.36	43	591053	132.2840713	ppb		99
34) BROMOCHLOROMETHANE	4.18	130	98232	29.4446215	ppb		90
35) TETRAHYDROFURAN	4.31	42	74395	16.7007618	ppb	#	61
36) CHLOROFORM	4.20	83	338260	25.8458726	ppb		99
37) CYCLOHEXANE	4.20	84	310199	25.3595956	ppb		88

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_37.D Vial: 37
Acq On : 24 Feb 2017 9:32 pm Operator: 605
Sample : LCS 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:12 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,1,1-TRICHLOROETHANE	4.34	97	280924	26.3404627 ppb		100
40)	CARBON TETRACHLORIDE	4.31	117	233579	25.0981991 ppb		99
41)	1,1-DICHLOROPROPENE	4.41	75	282515	27.1118989 ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	677324	23.1802972 ppb		92
43)	n-Heptane	4.48	71	178356	24.4237896 ppb	#	88
44)	BENZENE	4.55	78	818983	26.5543633 ppb		98
45)	TERT-AMYL METHYL ETHER	4.58	73	608963	25.8869379 ppb		98
46)	1,2-DICHLOROETHANE	4.67	62	261689	25.4928828 ppb		99
47)	T-AMYL ALCOHOL	4.65	59	78121	78.0552982 ppb	#	83
49)	TRICHLOROETHENE	4.89	130	169636	25.8994929 ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	392971	25.7373947 ppb		94
51)	1,2-DICHLOROPROPANE	5.20	62	161409	28.7271465 ppb		98
52)	DIBROMOMETHANE	5.15	93	105199	26.8687494 ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	262542	26.4218095 ppb		98
55)	2-CHLOROETHYL VINYL ETHER	5.52	63	314227	63.1345419 ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	332280	27.6420452 ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.95	43	1280127	157.5048869 ppb		98
59)	TOLUENE	5.75	91	834518	26.6499175 ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	288439	25.7949421 ppb		99
62)	1,1,2-TRICHLOROETHANE	6.11	97	147674	25.0157644 ppb		97
63)	TETRACHLOROETHENE	6.02	164	130370	26.4937272 ppb		98
64)	1,3-DICHLOROPROPANE	6.30	76	304591	26.3928268 ppb		98
65)	2-HEXANONE	6.50	58	392215	126.3944630 ppb		88
66)	CHLORODIBROMOMETHANE	6.25	129	160883	26.8504521 ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	147527	24.6981388 ppb		98
68)	CHLOROBENZENE	6.76	112	480072	26.1861630 ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.79	133	148790	26.2778971 ppb	#	96
70)	ETHYLBENZENE	6.75	106	280104	25.8669941 ppb		99
71)	M&P-XYLENE	6.85	106	697261	52.1218690 ppb		95
72)	O-XYLENE	7.16	106	331658	26.4032581 ppb		97
73)	STYRENE	7.20	104	571413	27.6308285 ppb		98
74)	BROMOFORM	7.25	173	93724	24.9628051 ppb		98
75)	ISOPROPYLBENZENE	7.37	105	892082	25.5920006 ppb		99
77)	BROMOBENZENE	7.70	77	401863	25.2518656 ppb		97
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	197776	23.0238462 ppb		96
79)	1,2,3-TRICHLOROPROPANE	7.85	110	58505	24.3595649 ppb		89
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	59317	19.6629197 ppb	#	90
81)	N-PROPYLBENZENE	7.68	91	1067513	25.3189110 ppb		100
82)	4-ETHYLTOLUENE	7.76	105	838023	24.9535610 ppb		100
83)	2-CHLOROTOLUENE	7.82	91	691902	24.9060156 ppb		99
84)	4-CHLOROTOLUENE	7.94	91	629123	25.0840962 ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	706334	24.0116775 ppb		100
86)	TERT-BUTYLBENZENE	8.07	119	579299	24.1244582 ppb		98
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	696378	24.5412267 ppb		98
88)	SEC-BUTYLBENZENE	8.20	105	887923	24.2122830 ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	335853	25.5888810 ppb		96
90)	P-ISOPROPYLTOLUENE	8.30	119	715024	24.3085315 ppb		100
91)	DICYCLOPENTADIENE	8.32	66	1002000	26.1474732 ppb		99
93)	1,4-DICHLOROBENZENE	8.47	146	352690	25.4782141 ppb		97
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	681670	23.0033173 ppb		99
95)	1,2-DICHLOROBENZENE	8.81	146	323037	27.1263544 ppb		97
96)	N-BUTYLBENZENE	8.64	91	645628	22.9661670 ppb		98
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	32937	22.6877046 ppb		98
98)	1,2,4-TRICHLOROBENZENE	10.01	180	165094	23.6833760 ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_37.D Vial: 37
Acq On : 24 Feb 2017 9:32 pm Operator: 605
Sample : LCS 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:12 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

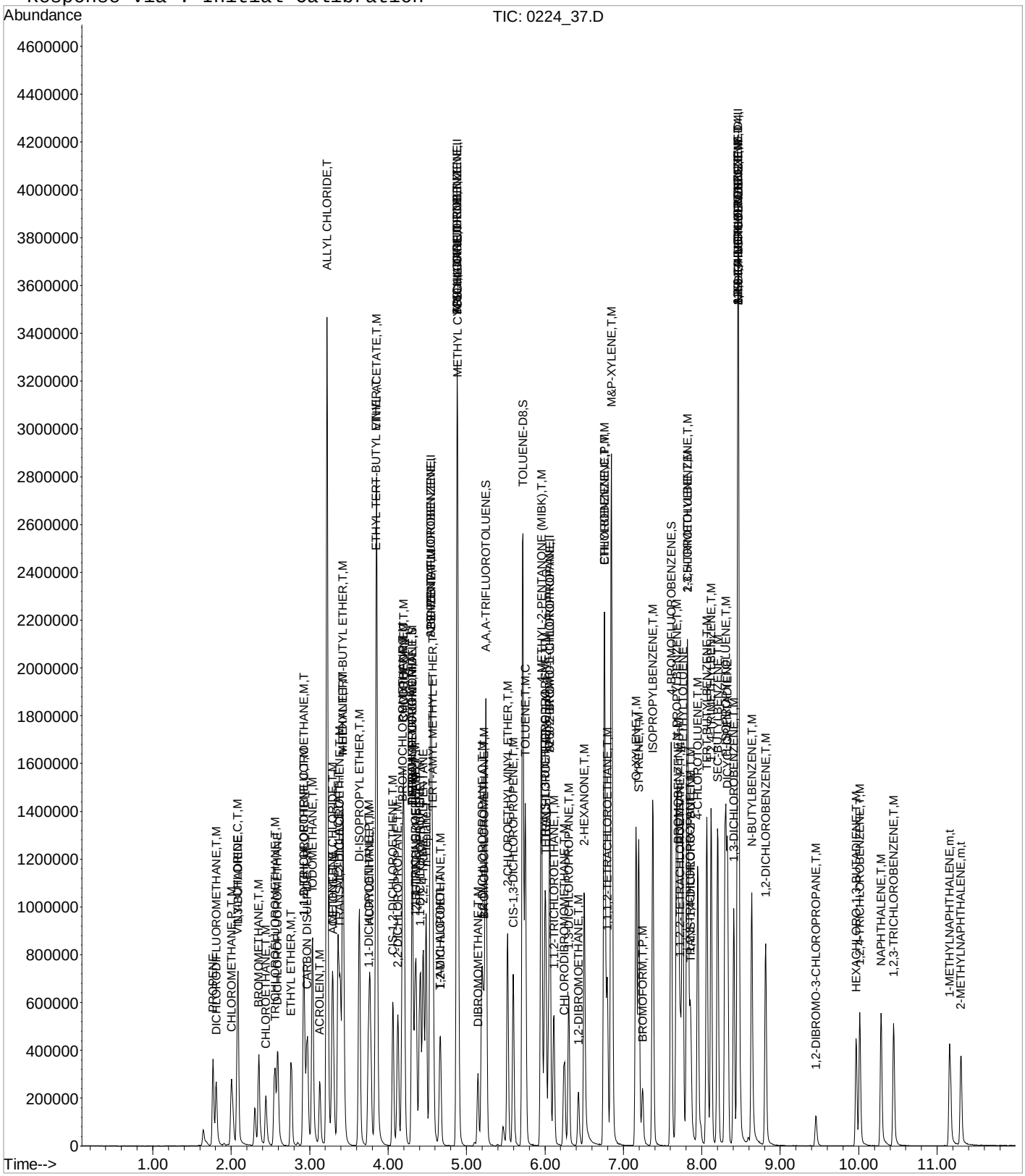
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	HEXACHLORO-1,3-BUTADIENE	9.96	225	78642	25.4187339	ppb	97
100)	NAPHTHALENE	10.29	128	437366	21.0836785	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.44	180	154833	24.0662977	ppb	99
102)	1-METHYLNAPHTHALENE	11.16	142	219524	23.5345705	ppb	98
103)	2-METHYLNAPHTHALENE	11.30	142	187137	21.0967186	ppb	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_37.D Vial: 37
Acq On : 24 Feb 2017 9:32 pm Operator: 605
Sample : LCS 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:59 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_38.D Vial: 38
Acq On : 24 Feb 2017 9:54 pm Operator: 605
Sample : LCSD 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:15 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	623043	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1107397	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	205952	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	487771	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	623922	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1107397	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	205952	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	487771	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	326728	38.8939111	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.23%				
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	578705	42.2311956	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.58%				
58) TOLUENE-D8	5.72	98	1435511	41.8983263	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.75%				
76) 4-BROMOFLUOROBENZENE	7.61	95	508552	40.2462110	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.62%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	3873733m	Below Cal			
4) PROPENE	1.77	41	195418	32.6522181	ppb		97
5) DICHLORODIFLUOROMETHANE	1.81	85	235461	25.7317340	ppb		99
6) CHLOROMETHANE	2.00	50	342031	27.8006779	ppb		99
7) VINYL CHLORIDE	2.08	62	287741	28.4636720	ppb		97
8) 1,3-BUTADIENE	2.09	39	237815	29.3930811	ppb		95
9) BROMOMETHANE	2.35	94	146222	18.2599292	ppb		97
10) CHLOROETHANE	2.44	64	179395	27.3163369	ppb		99
11) TRICHLOROFLUOROMETHANE	2.56	101	252410	24.7438209	ppb		98
12) DICHLOROFLUOROMETHANE	2.59	67	372193	24.5400972	ug/l		100
13) ETHYL ETHER	2.76	59	174921	27.6326759	ppb		95
14) ACROLEIN	3.13	56	198663	1376.0679603	ppb		96
15) 1,1-DICHLOROETHENE	2.93	96	150182	26.2301409	ppb		99
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	155706	26.4329644	ppb		97
17) ACETONE	3.30	43	353797	130.4334713	ppb		98
18) IODOMETHANE	3.04	142	959372	118.3186342	ppb		99
19) CARBON DISULFIDE	2.97	76	562372	27.2692329	ppb		99
20) ALLYL CHLORIDE	3.22	76	562653	137.8389034	ppb		80
21) METHYLENE CHLORIDE	3.29	84	186863	26.9464428	ppb		95
22) METHYL ACETATE	3.37	43	895151	138.0559268	ppb	#	95
23) ACRYLONITRILE	3.77	53	426849	139.0854501	ppb		99
24) n-HEXANE	3.42	56	199360	26.5396976	ppb		96
25) TRANS-1,2-DICHLOROETHENE	3.39	96	171826	27.2496584	ppb		96
26) METHYL TERT-BUTYL ETHER	3.43	73	546732	24.5386897	ppb		92
27) 1,1-DICHLOROETHANE	3.75	63	368807	26.6271373	ppb		99
28) VINYL ACETATE	3.86	43	2737878	168.9982488	ppb		98
29) DI-ISOPROPYL ETHER	3.63	45	820374	29.3002909	ppb		96
30) ETHYL TERT-BUTYL ETHER	3.85	59	680192	28.0461744	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	291207	25.8109514	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	191989	27.3258736	ppb		99
33) 2-BUTANONE (MEK)	4.36	43	584518	132.3660201	ppb		99
34) BROMOCHLOROMETHANE	4.18	130	100199	30.3888225	ppb		94
35) TETRAHYDROFURAN	4.31	42	72693	16.5113514	ppb	#	64
36) CHLOROFORM	4.20	83	352970	27.2882600	ppb		97
37) CYCLOHEXANE	4.20	84	316279	26.1619301	ppb		90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_38.D Vial: 38
Acq On : 24 Feb 2017 9:54 pm Operator: 605
Sample : LCSD 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:15 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,1,1-TRICHLOROETHANE	4.34	97	274427	26.0350784	ppb		98
40)	CARBON TETRACHLORIDE	4.31	117	234192	25.4611675	ppb		97
41)	1,1-DICHLOROPROPENE	4.41	75	282129	27.3945171	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	688415	23.8380296	ppb		94
43)	n-Heptane	4.48	71	177026	24.5278724	ppb	#	86
44)	BENZENE	4.56	78	834487	27.3765095	ppb		100
45)	TERT-AMYL METHYL ETHER	4.58	73	614330	26.4234180	ppb		99
46)	1,2-DICHLOROETHANE	4.67	62	265629	26.1822197	ppb		99
47)	T-AMYL ALCOHOL	4.65	59	74636	75.4536831	ppb	#	75
49)	TRICHLOROETHENE	4.89	130	167702	26.4777997	ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	397260	26.9431274	ppb		93
51)	1,2-DICHLOROPROPANE	5.20	62	160307	29.5044580	ppb		96
52)	DIBROMOMETHANE	5.15	93	105188	27.7825722	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	258603	26.9133488	ppb		100
55)	2-CHLOROETHYL VINYL ETHER	5.52	63	328129	68.1771059	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	337379	29.0238105	ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	1293482	164.5779987	ppb		97
59)	TOLUENE	5.75	91	840119	27.7441471	ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	289080	26.7343133	ppb		98
62)	1,1,2-TRICHLOROETHANE	6.11	97	152061	27.5755929	ppb		100
63)	TETRACHLOROETHENE	6.02	164	130509	28.3924673	ppb		95
64)	1,3-DICHLOROPROPANE	6.30	76	295047	27.3688986	ppb		98
65)	2-HEXANONE	6.50	58	377331	130.1738093	ppb		88
66)	CHLORODIBROMOMETHANE	6.25	129	160962	28.7582254	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	146515	26.2586311	ppb		100
68)	CHLOROBENZENE	6.76	112	476287	27.8119535	ppb		98
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	150886	28.5274587	ppb		98
70)	ETHYLBENZENE	6.76	106	269551	26.6480158	ppb		95
71)	M&P-XYLENE	6.85	106	693041	55.4601208	ppb		96
72)	O-XYLENE	7.16	106	328167	27.9678594	ppb		100
73)	STYRENE	7.20	104	555080	28.7340371	ppb		99
74)	BROMOFORM	7.25	173	95686	27.2827566	ppb		100
75)	ISOPROPYLBENZENE	7.38	105	894561	27.4730387	ppb		100
77)	BROMOBENZENE	7.70	77	409368	27.5376335	ppb		98
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	207731	25.8882609	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.85	110	56958	25.3880036	ppb		90
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	59564	21.1373218	ppb	#	86
81)	N-PROPYLBENZENE	7.68	91	1069246	27.1485576	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	845783	26.9608029	ppb		99
83)	2-CHLOROTOLUENE	7.82	91	694406	26.7590328	ppb		98
84)	4-CHLOROTOLUENE	7.94	91	634999	27.1039890	ppb		98
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	722354	26.2881333	ppb		98
86)	TERT-BUTYLBENZENE	8.07	119	598180	26.6676014	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	679600	25.6390466	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	873816	25.5080762	ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	325664	26.5625088	ppb		98
90)	P-ISOPROPYLTOLUENE	8.30	119	702151	25.5544125	ppb		100
91)	DICYCLOPENTADIENE	8.32	66	1004838	28.0708351	ppb		99
93)	1,4-DICHLOROBENZENE	8.47	146	346274	25.6039745	ppb		95
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	689183	23.8046890	ppb		98
95)	1,2-DICHLOROBENZENE	8.81	146	318464	27.3722926	ppb		98
96)	N-BUTYLBENZENE	8.64	91	636431	23.1723006	ppb		100
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.45	157	32412	22.8519895	ppb		98
98)	1,2,4-TRICHLOROBENZENE	10.01	180	164945	24.2193867	ppb		100

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

Data File : C:\MSDCHEM\1\DATA\022417\0224_38.D Vial: 38
Acq On : 24 Feb 2017 9:54 pm Operator: 605
Sample : LCSD 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:15 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

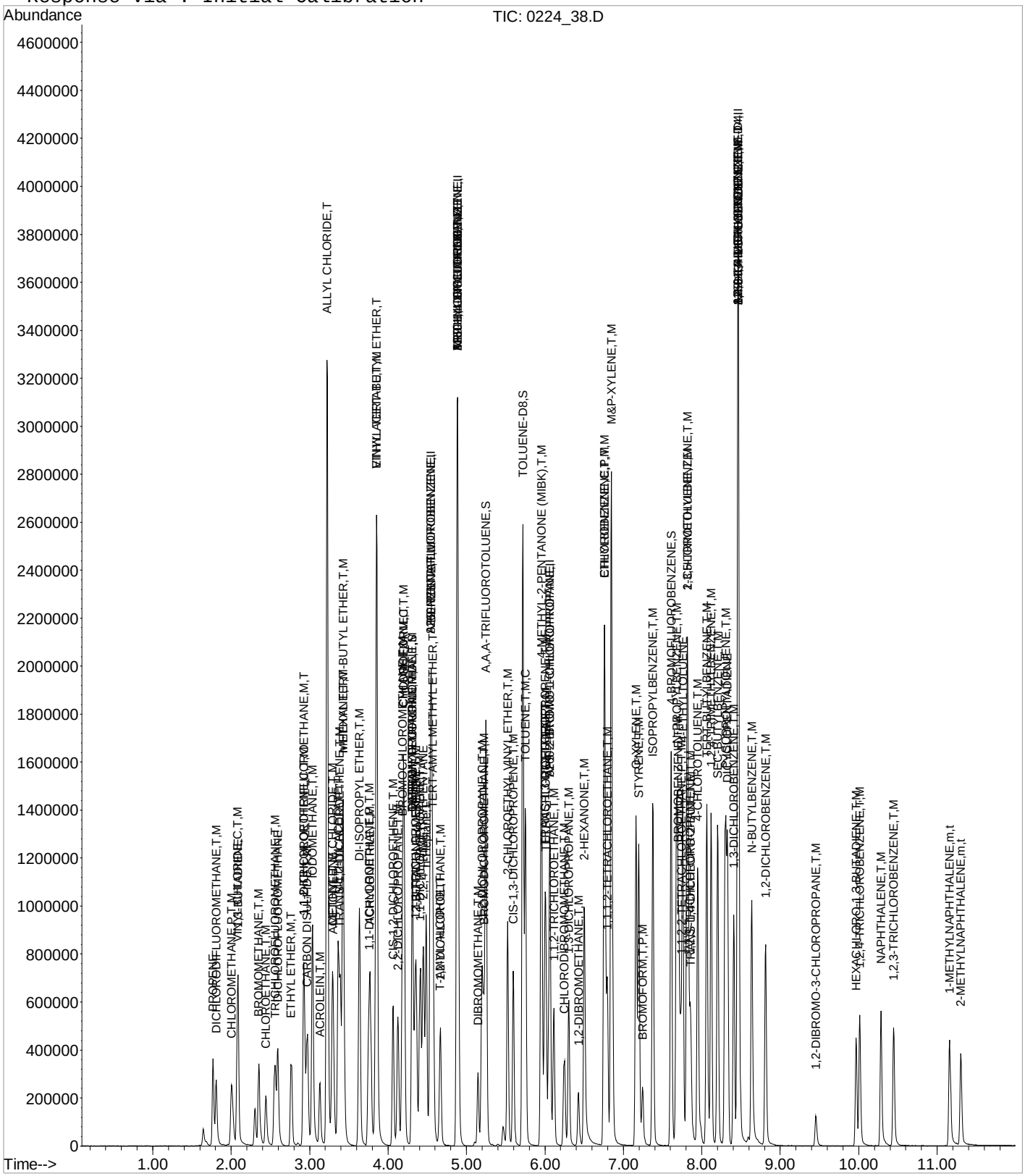
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	77682	25.6998997	ppb	98
100)	NAPHTHALENE	10.29	128	432049	21.3179794	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.44	180	149678	23.8130703	ppb	98
102)	1-METHYLNAPHTHALENE	11.16	142	223795	24.5576222	ppb	99
103)	2-METHYLNAPHTHALENE	11.30	142	193155	22.2880908	ppb	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_38.D Vial: 38
Acq On : 24 Feb 2017 9:54 pm Operator: 605
Sample : LCSD 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:59 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_40.D Vial: 40
Acq On : 24 Feb 2017 10:40 pm Operator: 605
Sample : BLANK 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:21 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	622472	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1114702	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	204286	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	444279	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	624343	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1114702	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	204286	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	444279	40.00	ppb	0.00

System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	323144	38.5025559	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.26%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	579438	42.0075814	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.02%			
58) TOLUENE-D8	5.71	98	1426342	41.3578909	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.39%			
76) 4-BROMOFLUOROBENZENE	7.61	95	505448	40.3267780	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.82%			

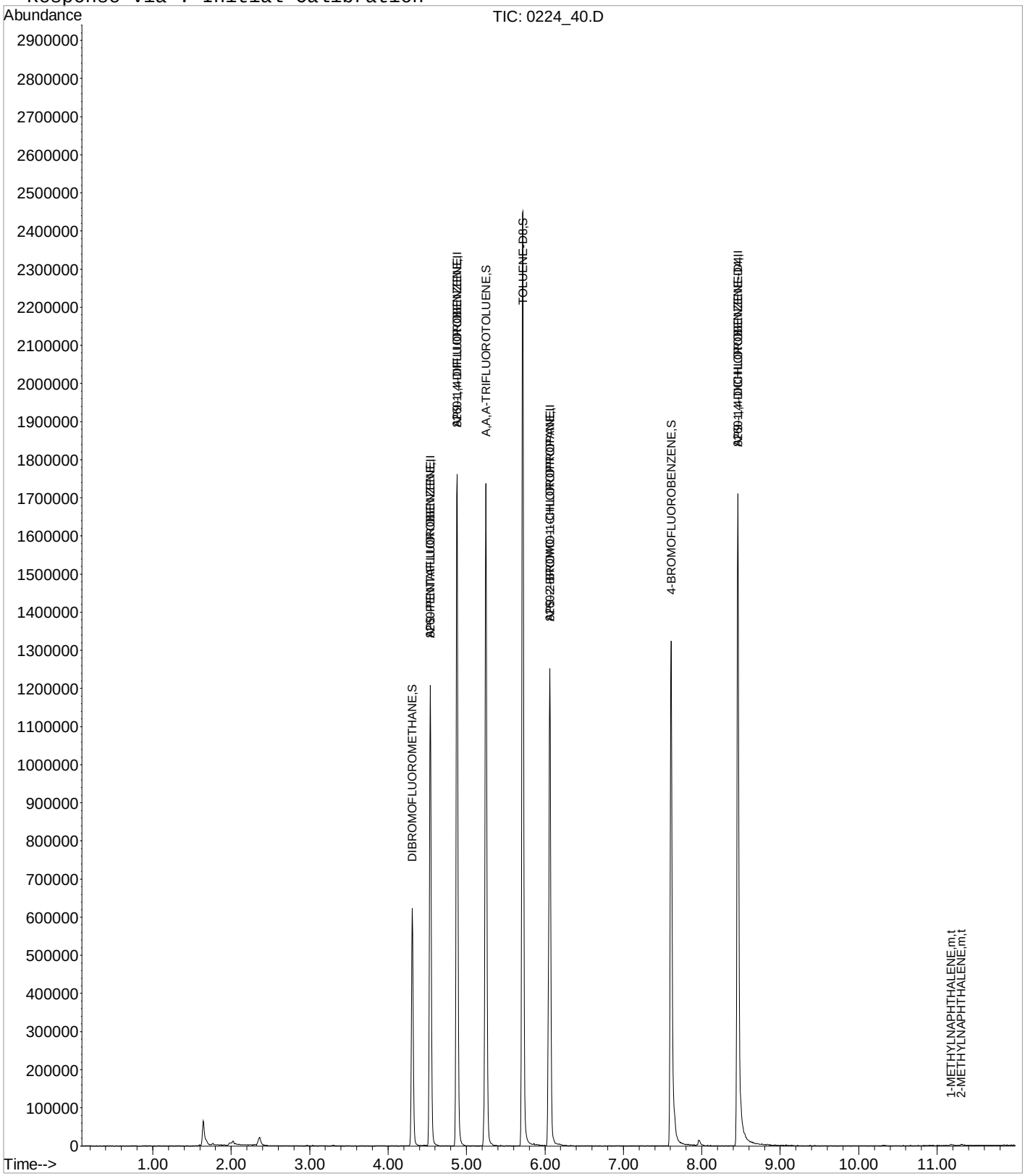
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC -8677906m	Below Cal			
102) 1-METHYLNAPHTHALENE	11.17	142	3020	0.3638338	ppb #	40
103) 2-METHYLNAPHTHALENE	11.31	142	2692	0.3410375	ppb #	64

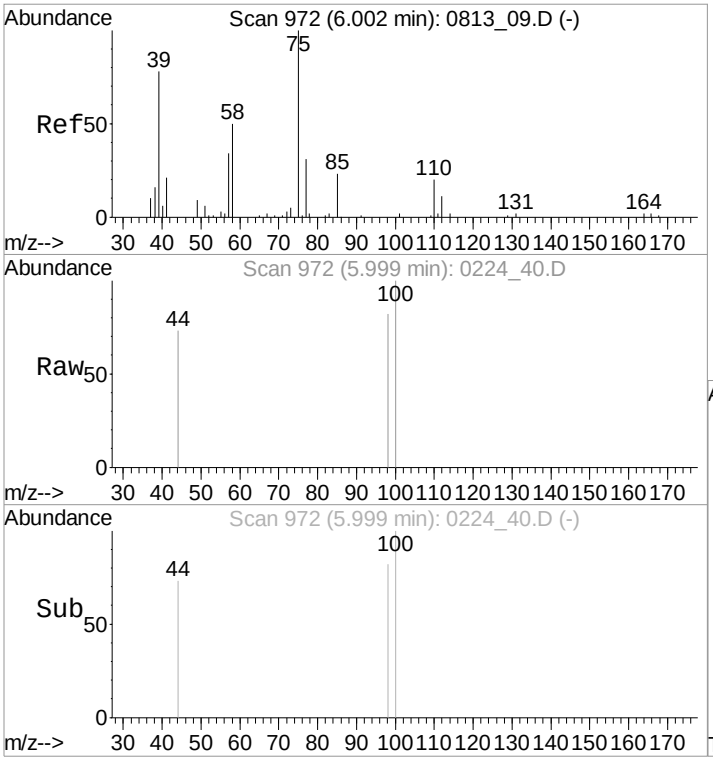
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_40.D Vial: 40
Acq On : 24 Feb 2017 10:40 pm Operator: 605
Sample : BLANK 1x WG955454 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 17:00 2017 Quant Results File: V808A03Q.RES

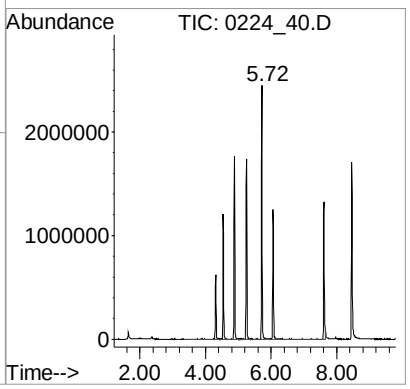
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration

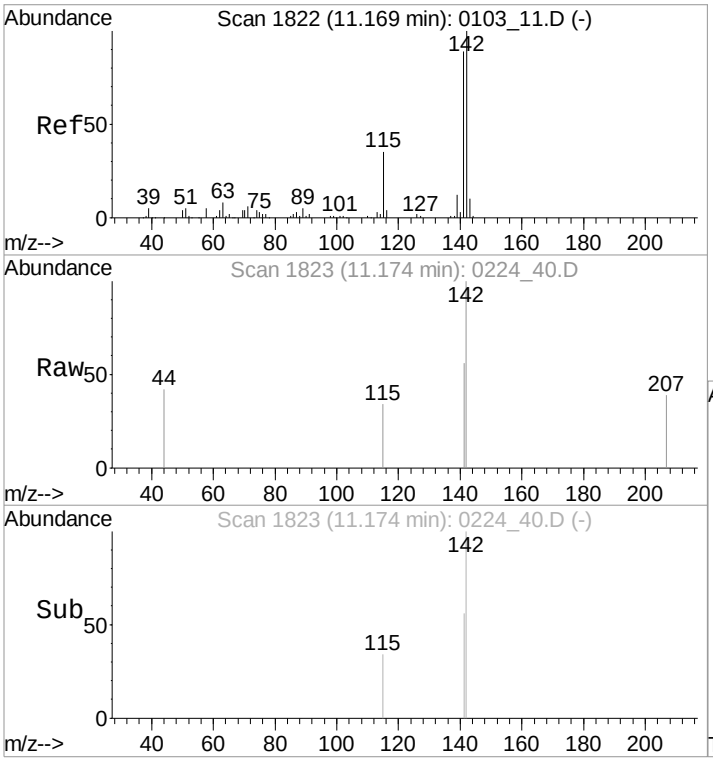




#2
TPH (GC/MS) LOW FRACTION
Concen: Below Cal m
RT: 6.00 min Scan# 972
Delta R.T. 0.00 min
Lab File: 0224_40.D
Acq: 24 Feb 2017 10:40 pm

Tgt Ion:TIC Resp:-8677906

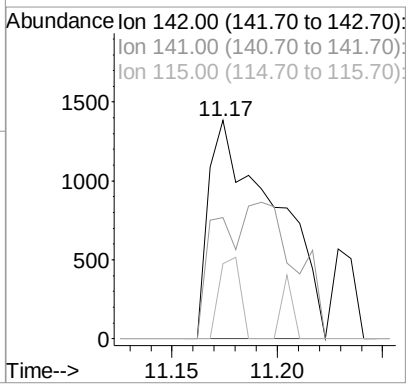


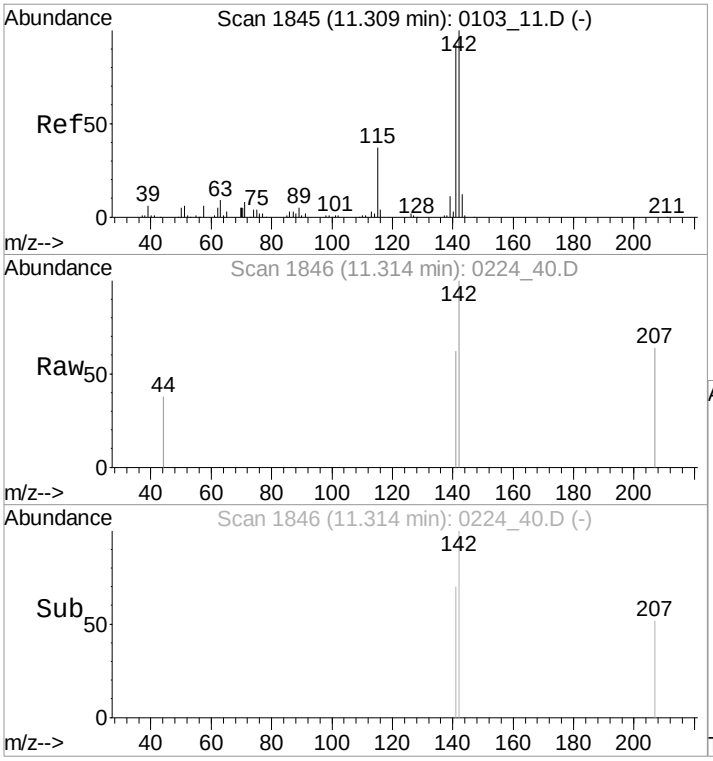


#102
1-METHYLNAPHTHALENE
Concen: 0.3638338 ppb
RT: 11.17 min Scan# 1823
Delta R.T. 0.01 min
Lab File: 0224_40.D
Acq: 24 Feb 2017 10:40 pm

Tgt Ion:142 Resp: 3020

Ion	Ratio	Lower	Upper
142	100		
141	25.2	70.3	105.5#
115	12.0	27.9	41.9#

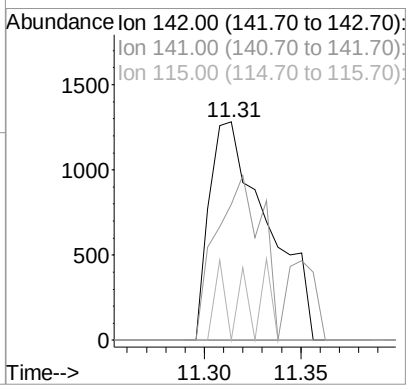




#103
2-METHYLNAPHTHALENE
Concen: 0.3410375 ppb
RT: 11.31 min Scan# 1846
Delta R.T. 0.01 min
Lab File: 0224_40.D
Acq: 24 Feb 2017 10:40 pm

Tgt Ion:142 Resp: 2692

Ion	Ratio	Lower	Upper
142	100		
141	59.7	71.0	106.6#
115	6.4	28.2	42.4#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_45.D Vial: 45
Acq On : 25 Feb 2017 1:22 am Operator: 605
Sample : L891420-04 1x WG955454 V8260 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 16:39:36 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	636723	40.00	ppb	-0.01
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1092877	40.00	ppb	-0.01
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	205270	40.00	ppb	-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.45	152	424551	40.00	ppb	-0.01
104) AP9-PENTAFLUOROBENZENE	4.54	168	638622	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1092877	40.00	ppb	-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	205270	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.45	152	424551	40.00	ppb	-0.01

System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.30	111	325192	37.8793571	ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.70%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	578942	42.8098056	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.02%			
58) TOLUENE-D8	5.71	98	1363615	40.3286771	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.82%			
76) 4-BROMOFLUOROBENZENE	7.60	95	500171	39.7144609	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.29%			

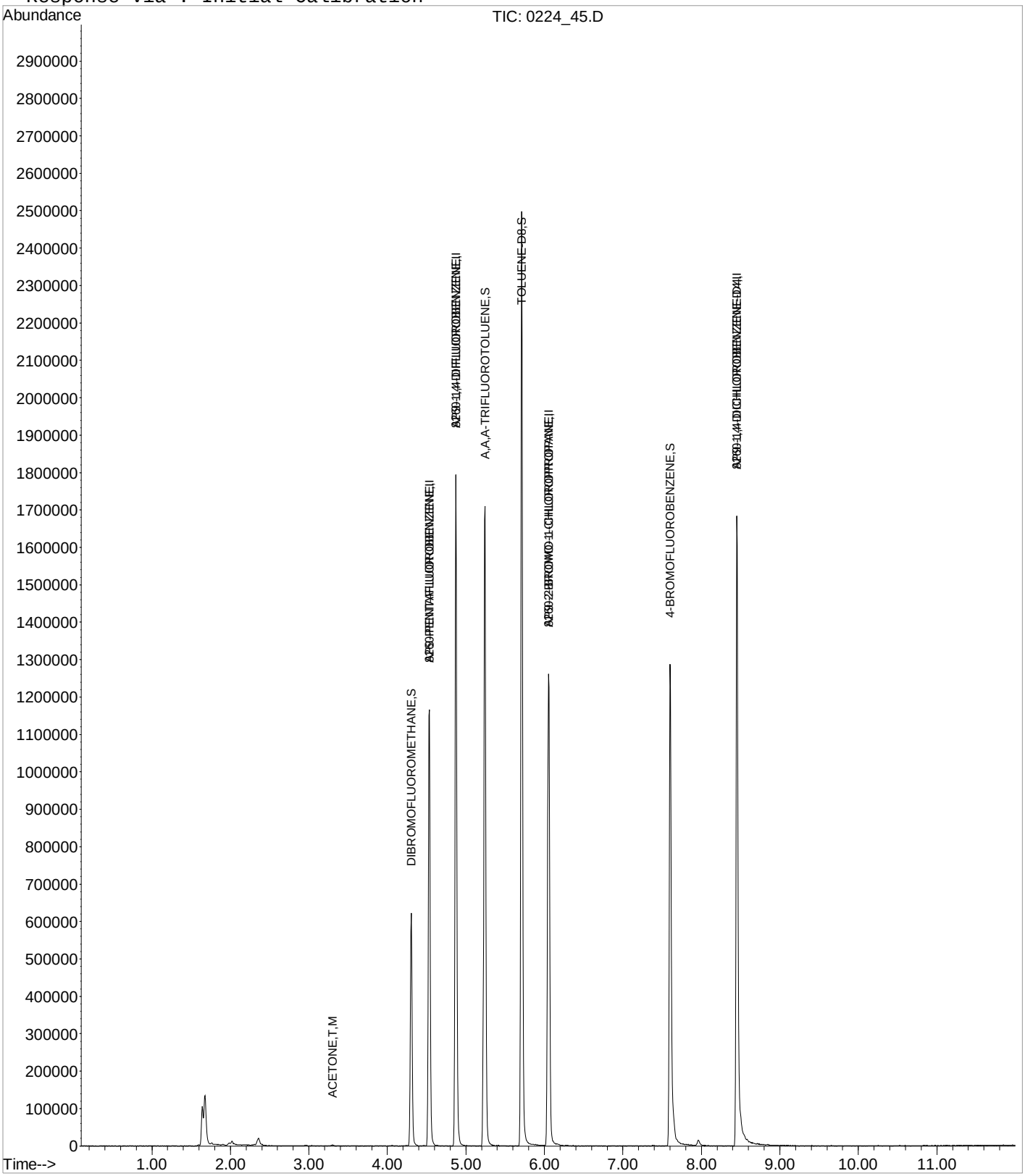
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC -7787752m	Below Cal			
17) ACETONE	3.30	43	3021	1.0898158	ppb #	72

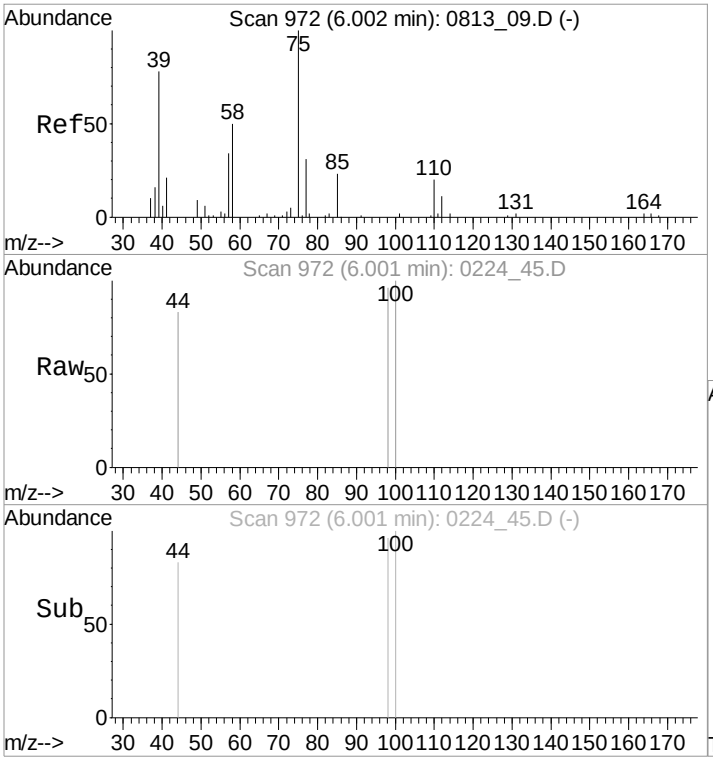
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022417\0224_45.D Vial: 45
Acq On : 25 Feb 2017 1:22 am Operator: 605
Sample : L891420-04 1x WG955454 V8260 Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Feb 27 17:05 2017 Quant Results File: V808A03Q.RES

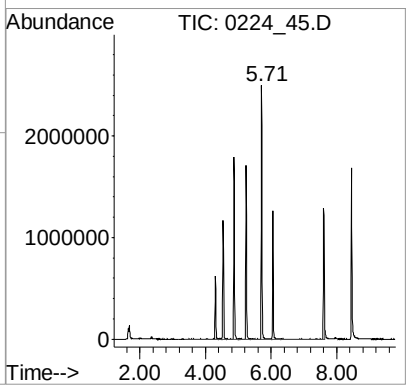
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:09:03 2017
Response via : Initial Calibration

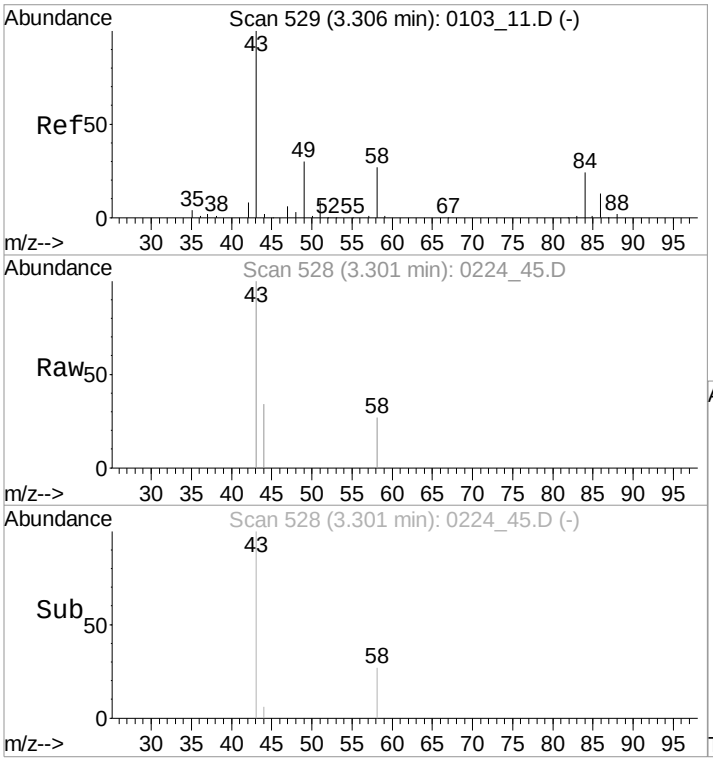




#2
TPH (GC/MS) LOW FRACTION
Concen: Below Cal m
RT: 6.00 min Scan# 972
Delta R.T. 0.00 min
Lab File: 0224_45.D
Acq: 25 Feb 2017 1:22 am

Tgt Ion:TIC Resp:-7787752

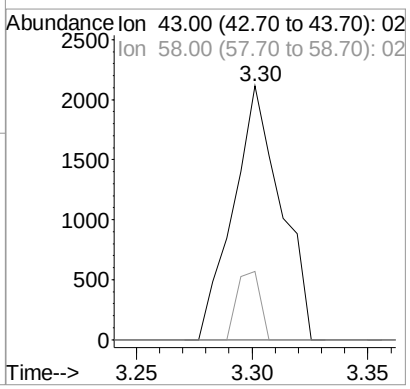




#17
ACETONE
Concen: 1.0898158 ppb
RT: 3.30 min Scan# 528
Delta R.T. -0.00 min
Lab File: 0224_45.D
Acq: 25 Feb 2017 1:22 am

Tgt Ion: 43 Resp: 3021

Ion	Ratio	Lower	Upper
43	100		
58	13.2	22.6	33.8#



Calibration

Instrument: VOCMS8
Method: V808A03Q

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0103_05.D	0.25	1/3/2017 12:38:00 PM
0103_06.D	0.5	1/3/2017 1:00:00 PM
0103_07.D	1	1/3/2017 1:23:00 PM
0103_08.D	2	1/3/2017 1:46:00 PM
0103_09.D	5.0	1/3/2017 2:09:00 PM
0103_10.D	10	1/3/2017 2:32:00 PM
0103_11.D	25	1/3/2017 2:55:00 PM
0103_12.D	40	1/3/2017 3:18:00 PM
0103_13.D	75	1/3/2017 3:41:00 PM
0103_14.D	100	1/3/2017 4:04:00 PM
0103_15.D	200	1/3/2017 4:26:00 PM
0103_20.D	1A	1/3/2017 6:21:00 PM
0103_21.D	2.5A	1/3/2017 6:44:00 PM
0103_22.D	5A	1/3/2017 7:07:00 PM
0103_23.D	7.5A	1/3/2017 7:29:00 PM
0103_24.D	10A	1/3/2017 7:52:00 PM
0103_25.D	12A	1/3/2017 8:15:00 PM
0103_26.D	15A	1/3/2017 8:38:00 PM
0103_27.D	17A	1/3/2017 9:01:00 PM
0103_28.D	20A	1/3/2017 9:23:00 PM
0103_34.D	0.4	1/3/2017 11:48:00 PM
0103_35.D	1	1/4/2017 12:11:00 AM
0103_36.D	2	1/4/2017 12:33:00 AM
0103_37.D	4	1/4/2017 12:56:00 AM
0103_38.D	5.0	1/4/2017 1:19:00 AM
0103_39.D	7	1/4/2017 1:42:00 AM
0103_40.D	10	1/4/2017 2:05:00 AM
0103_41.D	20	1/4/2017 2:27:00 AM

Mint Miner 2.6.4 Directory Scan: y:\010317

4 Jan 2017 12:22

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\010317\0103_01.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_01.D					
0	Scanned		605	VOCMS8	INSTBLK (water)
Scan File Path: y:\010317\0103_02.D					
Original Path: y:\010317\0103_02.D					
0	No Audit				
Scan File Path: y:\010317\0103_03.D					
Original Path: y:\010317\0103_03.D					
0	No Audit				
Scan File Path: y:\010317\0103_04.D					
Original Path: y:\010317\0103_04.D					
0	No Audit				
Scan File Path: y:\010317\0103_05.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_05.D					
17	Scanned	D(17)	605	VOCMS8	STD VMS 0.25 ppb 16L29037 (water IS/Surr16L
Scan File Path: y:\010317\0103_06.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_06.D					
17	Scanned	D(17)	605	VOCMS8	STD VMS 0.5 ppb 16L29037 (water IS/Surr16L3
Scan File Path: y:\010317\0103_07.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_07.D					
22	Scanned	D(22)	605	VOCMS8	STD VMS 1 ppb 16L29037 (water IS/Surr16L30
Scan File Path: y:\010317\0103_07A.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_07.D					
22	Scanned	D(22)	605	VOCMS8	STD VMS 1 ppb 16L29037 (water IS/Surr16L30
Scan File Path: y:\010317\0103_08.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_08.D					
23	Scanned	D(23)	605	VOCMS8	STD VMS 2 ppb 16L29037 (water IS/Surr16L30
Scan File Path: y:\010317\0103_09.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_09.D					
25	Scanned	D(25)	605	VOCMS8	STD VMS 5 ppb 16L29037 (water IS/Surr16L30
Scan File Path: y:\010317\0103_10.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_10.D					
26	Scanned	D(26)	605	VOCMS8	STD VMS 10 ppb 16L29037 (water IS/Surr16L3

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\010317\0103_10A.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_10.D					
26	Scanned	D(26)	605	VOCMS8	STD VMS 10 ppb 16L29037 (water IS/Surr16L3
Scan File Path: y:\010317\0103_11.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_11.D					
50	Scanned	D(50)	605	VOCMS8	MSTD VMS 25 ppb 16L29037 (water IS/Surr16I
Scan File Path: y:\010317\0103_12.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_12.D					
26	Scanned	D(26)	605	VOCMS8	STD VMS 40 ppb 16L29037 (water IS/Surr16L3
Scan File Path: y:\010317\0103_13.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_13.D					
28	Scanned	D(28)	605	VOCMS8	STD VMS 75 ppb 16L29037 (water IS/Surr16L3
Scan File Path: y:\010317\0103_14.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_14.D					
28	Scanned	D(28)	605	VOCMS8	STD VMS 100 ppb 16L29037 (water IS/Surr16L
Scan File Path: y:\010317\0103_15.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_15.D					
28	Scanned	D(28)	605	VOCMS8	STD VMS 200 ppb 16L29037 (water IS/Surr16L
Scan File Path: y:\010317\0103_16.D					
Original Path: y:\010317\0103_16.D					
0	No Audit				
Scan File Path: y:\010317\0103_17.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_17.D					
0	Scanned		605	VOCMS8	SSCV VMS 25 ppb 16L29039 (water IS/Surr16L
Scan File Path: y:\010317\0103_18.D					
Original Path: y:\010317\0103_18.D					
0	No Audit				
Scan File Path: y:\010317\0103_19.D					
Original Path: y:\010317\0103_19.D					
0	No Audit				
Scan File Path: y:\010317\0103_20.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_20.D					
84	Scanned	D(62), DC(5), DB(2), DP(1), DK(4), DS(2)	605	VOCMS8	STD VMS 1a ppb 16L16234 (water IS/Surr16L3

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\010317\0103_20A.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_20.D					
84	Scanned	D(62), DC(5), DB(2), DP(1), DK(4), DS(2)	605	VOCMS8	STD VMS 1a ppb 16L16234 (water IS/Surr16L3(
Scan File Path: y:\010317\0103_21.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_21.D					
86	Scanned	D(64), DC(5), DB(2), DP(1), DK(4), DS(2)	605	VOCMS8	STD VMS 2.5 ppb 16L16234 (water IS/Surr16L3
Scan File Path: y:\010317\0103_22.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_22.D					
89	Scanned	D(67), DC(5), DB(2), DP(1), DK(4), DS(2)	605	VOCMS8	STD VMS 5 ppb 16L16234 (water IS/Surr16L30
Scan File Path: y:\010317\0103_23.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_23.D					
92	Scanned	D(69), DC(5), DB(2), DP(2), DK(4), DS(2)	605	VOCMS8	STD VMS 7.5 ppb 16L16234 (water IS/Surr16L3
Scan File Path: y:\010317\0103_24.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_24.D					
184	Scanned	D(136), DC(10), DB(4), DP(4), DK(10), DS(4)	605	VOCMS8	MSTD VMS 10a ppb 16L16234 (water IS/Surr16
Scan File Path: y:\010317\0103_25.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_25.D					
88	Scanned	D(64), DC(5), DB(2), DP(2), DK(5), DS(2)	605	VOCMS8	STD VMS 12.5 ppb 16L16234 (water IS/Surr16L
Scan File Path: y:\010317\0103_26.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_26.D					
86	Scanned	D(62), DC(5), DB(2), DP(2), DK(5), DS(2)	605	VOCMS8	STD VMS 15 ppb 16L16234 (water IS/Surr16L3
Scan File Path: y:\010317\0103_27.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_27.D					
90	Scanned	D(65), DC(5), DB(2), DP(3), DK(5), DS(2)	605	VOCMS8	STD VMS 17.5 ppb 16L16234 (water IS/Surr16L
Scan File Path: y:\010317\0103_28.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_28.D					
89	Scanned	D(65), DC(5), DB(2), DP(2), DK(5), DS(2)	605	VOCMS8	STD VMS 20 ppb 16L16234 (water IS/Surr16L3
Scan File Path: y:\010317\0103_29.D					
Original Path: y:\010317\0103_29.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\010317\0103_30.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_30.D					
0	Scanned		605	VOCMS8	SSCV VMS 10a ppb 16L17335 (water IS/Surr16L
Scan File Path: y:\010317\0103_31.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_31.D					
0	Scanned		605	VOCMS8	INSTBLK (water IS/Surr16L30078)
Scan File Path: y:\010317\0103_32.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_32.D					
0	Scanned		605	VOCMS8	STD GROMS 0.2 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_33.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_33.D					
0	Scanned		605	VOCMS8	STD GROMS 0.2 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_34.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_34.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 0.4 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_35.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_35.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 1.0 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_36.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_36.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 2.0 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_37.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_37.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 4.0 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_38.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_38.D					
1	Scanned	M(1)	605	VOCMS8	MSTD GROMS 5.0 ppm 17A03251 (water IS/Su
Scan File Path: y:\010317\0103_39.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_39.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 7.0 ppm 17A03251 (water IS/Surr
Scan File Path: y:\010317\0103_40.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_40.D					
1	Scanned	M(1)	605	VOCMS8	STD GROMS 10 ppm 17A03251 (water IS/Surr1

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\010317\0103_41.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_41.D					
10	Scanned	M(5), MM(1)	605	VOCMS8	STD GROMS 20 ppm 17A03251 (water IS/Surr1
Scan File Path: y:\010317\0103_42.D					
Original Path: y:\010317\0103_42.D					
0	No Audit				
Scan File Path: y:\010317\0103_43.D					
Original Path: C:\MSDCHEM\1\DATA\010317\0103_43.D					
1	Scanned	M(1)	605	VOCMS8	SSCV GROMS 5.0 ppm 17A03252 (water IS/Sur

D = Deletion of any analyte
DC = Deletion of a CCC
DP = Deletion of an SPCC
M = Manual integration (non-specific)
DB = Deletion of a common contaminant
DK = Deletion of a spike compound
DS = Deletion of a surrogate
MM = More than 3 manual integrations of the same analyte

ScanSummary.rpt

Total Files Scanned	46	Beginning Analyzed Date	1/3/2017 11:06:00AM
Methods	0	Ending Analyzed Date	1/4/2017 3:13:00AM
Samples	44	Analyzed Range	16 hours, 7 minutes
Tunes	2	Greatest Time Between Tunes	11 hours, 33 minutes
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : John Heath
Date Released : 1/4/2017 11:23:20 AM
Run ID : 010317
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0103_01	INSTBLK	V808A03Q					1	1	01/03/17 1106	"water "
2	0103_01-6	INSTBLK	8260_W						1	01/3/17 1106	
3	0103_05	STD VMS 0.25 PPB 16L29037	V808A03Q					1	1	01/03/17 1238	"water IS/Surr16L30078 "
4	0103_06	STD VMS 0.5 PPB 16L29037	V808A03Q					1	1	01/03/17 1300	"water IS/Surr16L30078 "
5	0103_07	STD VMS 1 PPB 16L29037	V808A03Q					1	1	01/03/17 1323	"water IS/Surr16L30078 "
6	0103_07A-6	RL VMS 1 PPB 16L29037	V808A03Q					1	1	01/03/17 1323	"water IS/Surr16L30078 "
7	0103_08	STD VMS 2 PPB 16L29037	V808A03Q					1	1	01/03/17 1346	"water IS/Surr16L30078 "
8	0103_09	STD VMS 5 PPB 16L29037	V808A03Q					1	1	01/03/17 1409	"water IS/Surr16L30078 "
9	0103_10	STD VMS 10 PPB 16L29037	V808A03Q					1	1	01/03/17 1432	"water IS/Surr16L30078 "
10	0103_10A-6	RL VMS 10 PPB 16L29037	V808A03Q					1	1	01/03/17 1432	"water IS/Surr16L30078 "
11	0103_11	MSTD VMS 25 PPB 16L29037	V808A03Q					1	1	01/03/17 1455	"water IS/Surr16L30078 "
12	0103_12	STD VMS 40 PPB 16L29037	V808A03Q					1	1	01/03/17 1518	"water IS/Surr16L30078 "
13	0103_13	STD VMS 75 PPB 16L29037	V808A03Q					1	1	01/03/17 1541	"water IS/Surr16L30078 "
14	0103_14	STD VMS 100 PPB 16L29037	V808A03Q					1	1	01/03/17 1604	"water IS/Surr16L30078 "
15	0103_15	STD VMS 200 PPB 16L29037	V808A03Q					1	1	01/03/17 1626	"water IS/Surr16L30078 "
16	0103_17-6	SSCV VMS 25 PPB 16L29039	V808A03Q					1	1	01/03/17 1712	"water IS/Surr16L30078 "
17	0103_20	STD VMS 1A PPB 16L16234	V808A03Q					1	1	01/03/17 1821	"water IS/Surr16L30078 "
18	0103_20A-6	RL VMS 1A PPB 16L16234	V808A03Q					1	1	01/03/17 1821	"water IS/Surr16L30078 "
19	0103_21	STD VMS 2.5 PPB 16L16234	V808A03Q					1	1	01/03/17 1844	"water IS/Surr16L30078 "
20	0103_22	STD VMS 5 PPB 16L16234	V808A03Q					1	1	01/03/17 1907	"water IS/Surr16L30078 "
21	0103_23	STD VMS 7.5 PPB 16L16234	V808A03Q					1	1	01/03/17 1929	"water IS/Surr16L30078 "
22	0103_24	MSTD VMS 10A PPB 16L16234	V808A03Q					1	1	01/03/17 1952	"water IS/Surr16L30078 "
23	0103_25	STD VMS 12.5 PPB 16L16234	V808A03Q					1	1	01/03/17 2015	"water IS/Surr16L30078 "

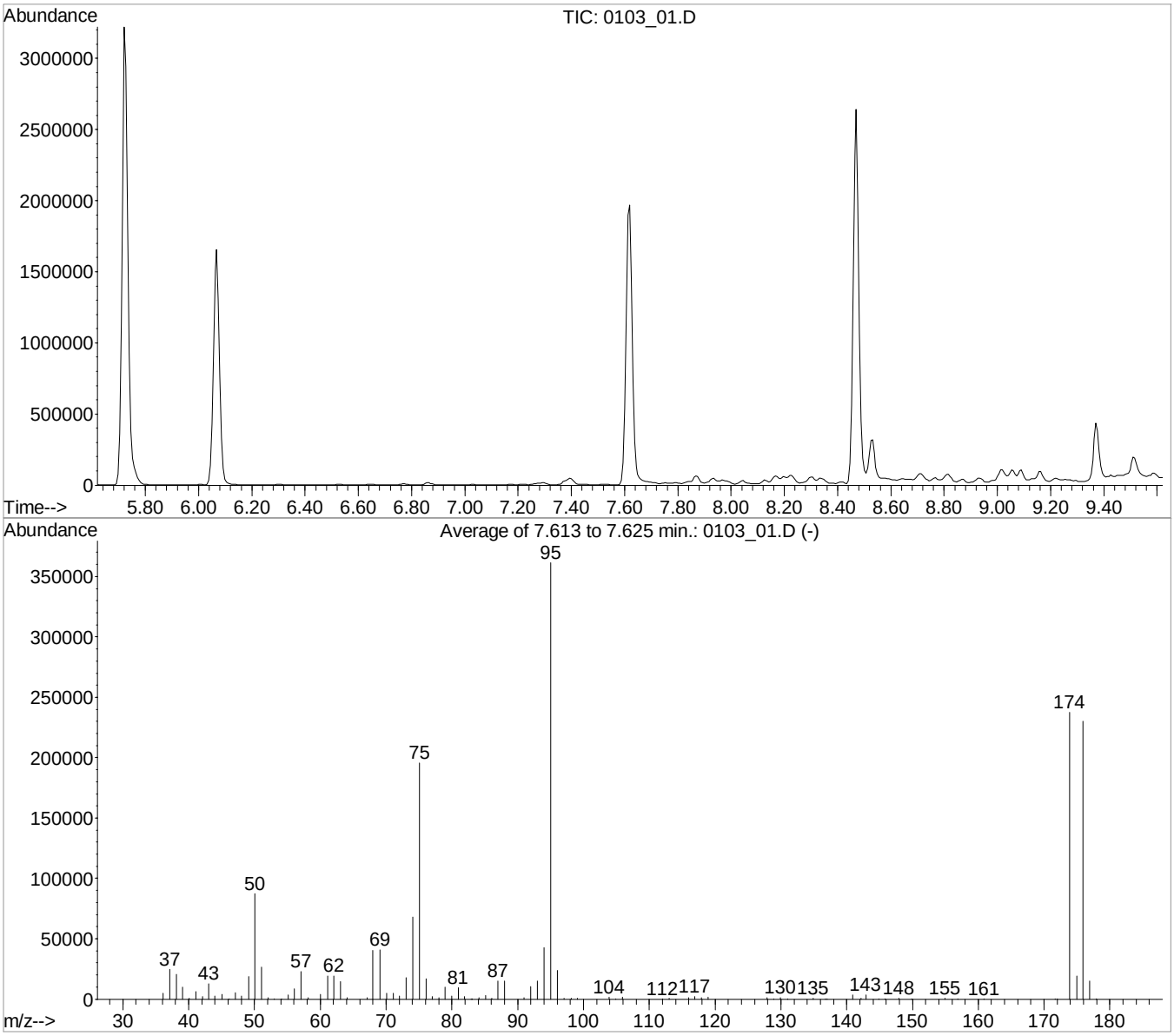
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : John Heath
Date Released : 1/4/2017 11:23:20 AM
Run ID : 010317
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
24	0103_26	STD VMS 15 PPB 16L16234	V808A03Q					1	1	01/03/17 2038	"water IS/Surr16L30078 "
25	0103_27	STD VMS 17.5 PPB 16L16234	V808A03Q					1	1	01/03/17 2101	"water IS/Surr16L30078 "
26	0103_28	STD VMS 20 PPB 16L16234	V808A03Q					1	1	01/03/17 2123	"water IS/Surr16L30078 "
27	0103_30-6	SSCV VMS 10A PPB 16L17335	V808A03Q					1	1	01/03/17 2209	"water IS/Surr16L30078 "
28	0103_31	INSTBLK	V808A03Q					1	1	01/03/17 2239	"water IS/Surr16L30078 "
29	0103_31-6	INSTBLK	8260_W						1	01/3/17 2239	
30	0103_34	STD GROMS 0.4 PPM 17A03251	V808A03Q					1	1	01/03/17 2348	"water IS/Surr16L30078 "
31	0103_35	STD GROMS 1 PPM 17A03251	V808A03Q					1	1	01/04/17 0011	"water IS/Surr16L30078 "
32	0103_36	STD GROMS 2 PPM 17A03251	V808A03Q					1	1	01/04/17 0033	"water IS/Surr16L30078 "
33	0103_37	STD GROMS 4 PPM 17A03251	V808A03Q					1	1	01/04/17 0056	"water IS/Surr16L30078 "
34	0103_38	MSTD GROMS 5.0 PPM 17A03251	V808A03Q					1	1	01/04/17 0119	"water IS/Surr16L30078 "
35	0103_39	STD GROMS 7 PPM 17A03251	V808A03Q					1	1	01/04/17 0142	"water IS/Surr16L30078 "
36	0103_40	STD GROMS 10 PPM 17A03251	V808A03Q					1	1	01/04/17 0205	"water IS/Surr16L30078 "
37	0103_41	STD GROMS 20 PPM 17A03251	V808A03Q					1	1	01/04/17 0227	"water IS/Surr16L30078 "
38	0103_43-6	SSCV GROMS 5.0 PPM 17A03252	V808A03Q					1	1	01/04/17 0313	"water IS/Surr16L30078 "

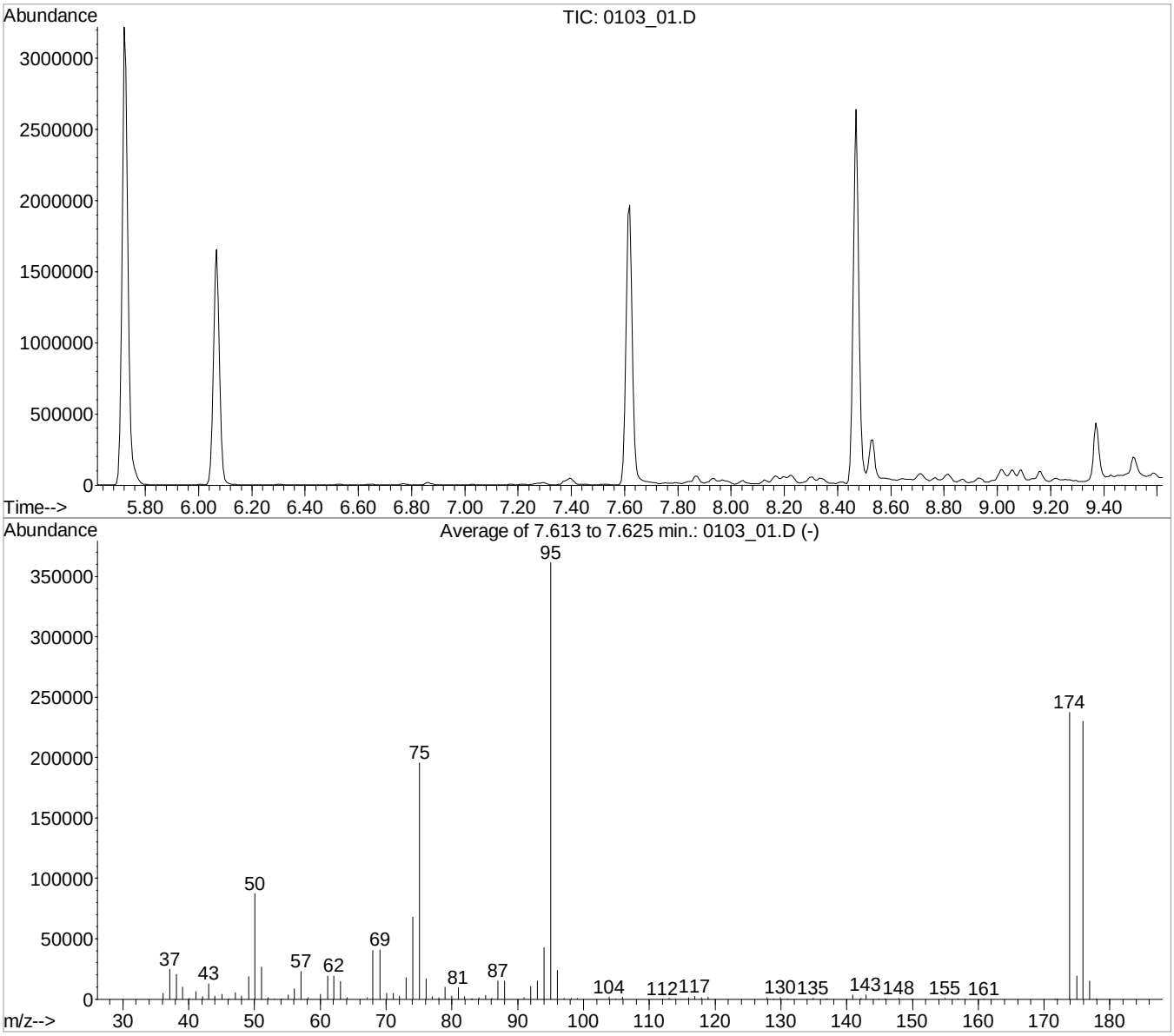
Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



AutoFind: Scans 1237, 1238, 1239; Background Corrected with Scan 1230

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	87221	PASS
75	95	30	60	54.1	195712	PASS
95	95	100	100	100.0	361578	PASS
96	95	5	9	6.6	23946	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	65.7	237440	PASS
175	174	5	9	8.0	19093	PASS
176	174	95	101	97.0	230357	PASS
177	176	5	9	6.5	15015	PASS

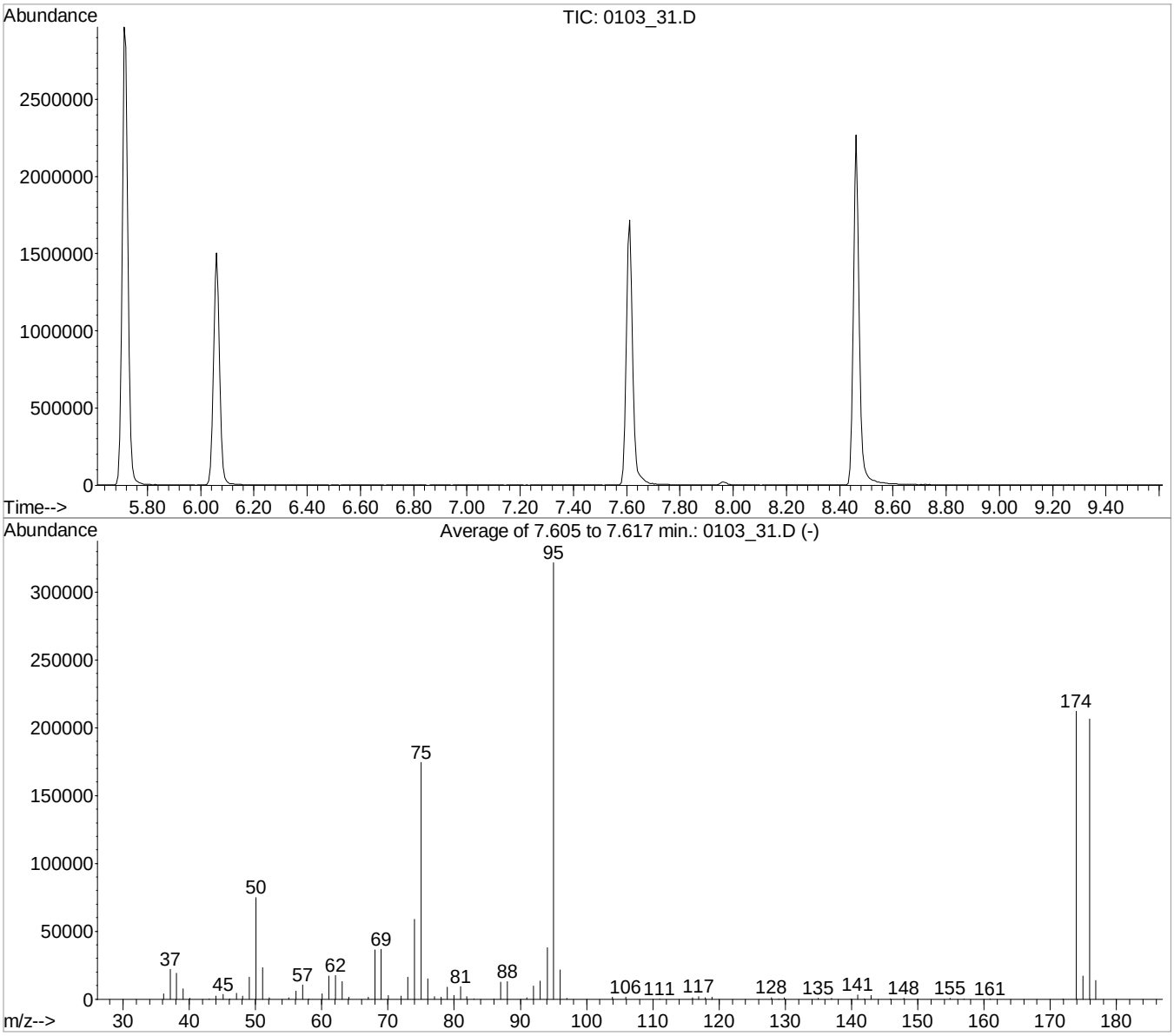
Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



AutoFind: Scans 1237, 1238, 1239; Background Corrected with Scan 1230

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	87221	PASS
75	95	30	60	54.1	195712	PASS
95	95	100	100	100.0	361578	PASS
96	95	5	9	6.6	23946	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	65.7	237440	PASS
175	174	5	9	8.0	19093	PASS
176	174	95	101	97.0	230357	PASS
177	176	5	9	6.5	15015	PASS

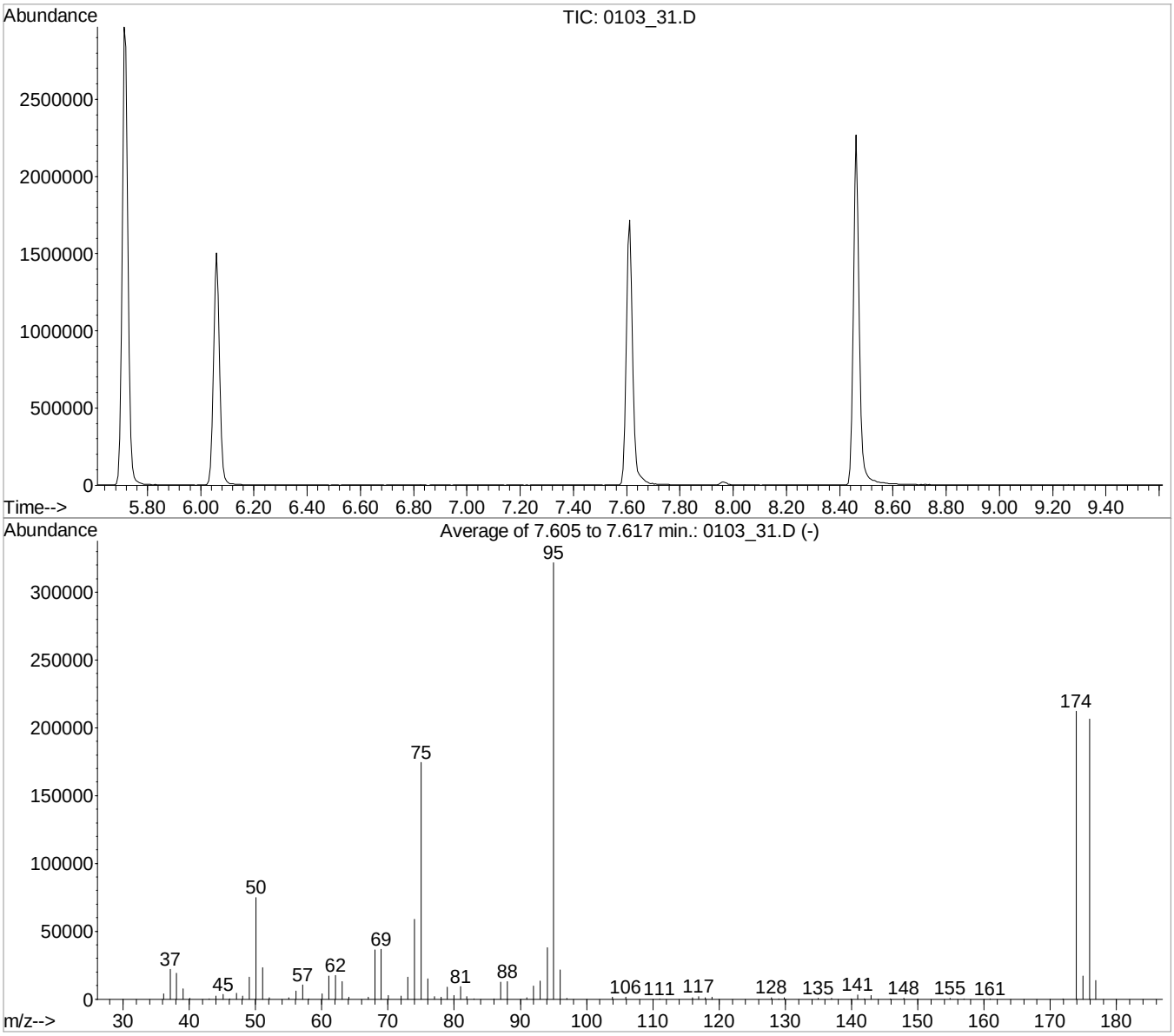
Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



AutoFind: Scans 1236, 1237, 1238; Background Corrected with Scan 1230

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	74981	PASS
75	95	30	60	54.2	174357	PASS
95	95	100	100	100.0	321813	PASS
96	95	5	9	6.7	21512	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	66.0	212288	PASS
175	174	5	9	8.0	16994	PASS
176	174	95	101	97.2	206421	PASS
177	176	5	9	6.6	13687	PASS

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



AutoFind: Scans 1236, 1237, 1238; Background Corrected with Scan 1230

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	74981	PASS
75	95	30	60	54.2	174357	PASS
95	95	100	100	100.0	321813	PASS
96	95	5	9	6.7	21512	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	66.0	212288	PASS
175	174	5	9	8.0	16994	PASS
176	174	95	101	97.2	206421	PASS
177	176	5	9	6.6	13687	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260B	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260B	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 601-602
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 601-602
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 601-602
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 601-602	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 601-602
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 601-602	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 601-602	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:20:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 624	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 624
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 624	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 624
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 624	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 624
Review Protocol : EPA
Released By : John Heath
Released On : 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 624	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: EPA	Released On	: 1/4/2017 11:21:09 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SC	Released On	: 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260SC
Review Protocol : SC
Released By : John Heath
Released On : 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SC	Released On	: 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SC	Released On	: 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SC	Released On	: 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260SC
Review Protocol : SC
Released By : John Heath
Released On : 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SC	Released On	: 1/4/2017 11:21:33 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 6200
Review Protocol : SM 20th
Released By : John Heath
Released On : 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 6200
Review Protocol : SM 20th
Released By : John Heath
Released On : 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 6200	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SM 20th	Released On	: 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 6200
Review Protocol : SM 20th
Released By : John Heath
Released On : 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 6200	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SM 20th	Released On	: 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 6200	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SM 20th	Released On	: 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 6200	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SM 20th	Released On	: 1/4/2017 11:21:59 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260C	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0	
LRH (C5-C8)																					0	0	0	1	
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1	
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1	0.1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1	0.1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1	0.1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1	
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1	0.1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1	0.1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1	0.1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1	
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1	
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0	
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1	0.1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1	0.1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1	
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1	0.1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1	

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260C
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1	0.1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1	0.1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1	
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1	
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1	0.1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1	0.1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1	0.2
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1	
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1	
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1	
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1	
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1	0.1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1	0.1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1	
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1	
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1	0.2
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1	0.1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1	
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1	0.1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1	0.1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260C
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1	
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1	
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1	
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1	0.5
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1	
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1	0.1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1	
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1	0.2
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0	0.1
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1	0.1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1	
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1	0.2
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1	
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1	
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1	0.1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1	
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1	0.1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260C
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1	0.1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1	0.2
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1	
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1	0.1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1	0.1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1	0.1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1	0.5
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1	
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1	0.1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1	0.1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1	0.3
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1	0.3
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1	0.1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1	0.1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1	
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1	
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1	0.3
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1	
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1	

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260C	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1	
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1	
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1	
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1	
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1	
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1	
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1	
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1	
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1	0.6
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1	
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1	
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1	
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1	0.4
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1	
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1	0.05
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1	0.2
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1	
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1	
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1	

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260C	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1	
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1	
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1	
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1	
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1	
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1	
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1	
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1	
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1	
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1	
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1	
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1	
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1	
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1	
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1	
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1	

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260C	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:22:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1	
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1	
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1	
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1	
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1	
AP9-1,4-DICHLOROBENZENE-D4																									

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260B	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	4846	3322	2789	2711	2687	2554	2500														3058.217	27.24	0.999	0
LRH (C5-C8)																					0	0	0	1
PROPENE	0.294	0.468	0.393	0.354	0.391	0.393	0.384	0.386	0.377	0.367	0.419										0.384232	11.01	0.11	1
DICHLORODIFLUOROMETHANE		0.551	0.552	0.518	0.61	0.62	0.614	0.619	0.594	0.588	0.608										0.587478	6.02	0.06	1
CHLOROMETHANE	0.776	0.813	0.756	0.734	0.75	0.753	0.715	0.73	0.765	0.852	1.045										0.789864	11.77	0.118	1
VINYL CHLORIDE	0.389	0.651	0.616	0.613	0.701	0.703	0.695	0.708	0.688	0.684	0.691										0.649012	14.24	0.142	1
1,3-BUTADIENE			0.6	0.486	0.523	0.509	0.514	0.501	0.489	0.479	0.573										0.519441	7.89	0.079	1
BROMOMETHANE			0.655	0.558	0.487	0.476	0.455	0.493	0.498	0.511	0.494										0.514109	11.61	0.116	1
CHLOROETHANE	0.315	0.42	0.408	0.407	0.445	0.437	0.466	0.428	0.444	0.445											0.421628	9.87	0.099	1
TRICHLOROFLUOROMETHANE		0.629	0.637	0.612	0.691	0.7	0.653	0.689	0.692	0.692	0.554										0.65491	7.28	0.073	1
DICHLOROFLUOROMETHANE	1.142	0.914	0.928	0.965	0.927	1	0.906	0.938	0.956	1	1.036										0.97372	7.09	0.071	1
ETHYL ETHER	0.365	0.393	0.364	0.394	0.421	0.423	0.422	0.421	0.418	0.424	0.424										0.406407	5.77	0.058	1
ACROLEIN					0.005	0.006	0.008	0.008	0.009												0.007247	24.93	0.995	0
1,1-DICHLOROETHENE		0.332	0.346	0.319	0.375	0.383	0.371	0.38	0.381	0.383	0.407										0.367586	7.31	0.073	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.35	0.351	0.331	0.391	0.392	0.39	0.392	0.385	0.391	0.41										0.378183	6.61	0.066	1
ACETONE	0.185	0.176	0.157	0.139	0.154	0.156	0.179	0.18	0.186	0.189	0.215										0.174143	12.15	0.122	1
IODOMETHANE	0.706	0.55	0.492	0.468	0.497	0.514	0.522	0.535	0.513	0.487	0.44										0.520566	13.21	0.132	1
CARBON DISULFIDE	1.155	1.419	1.246	1.216	1.293	1.357	1.336	1.367	1.368	1.381	1.426										1.324014	6.54	0.065	1
ALLYL CHLORIDE	0.233	0.249	0.257	0.257	0.27	0.279	0.273	0.278	0.265	0.263	0.258										0.262066	5.14	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE	0.42	0.491	0.421	0.434	0.444	0.455	0.436	0.445	0.435	0.448	0.468										0.445209	4.66	0.047	1
METHYL ACETATE	0.444	0.393	0.387	0.379	0.415	0.395	0.416	0.417	0.428	0.427	0.478										0.416278	6.8	0.068	1
ACRYLONITRILE	0.175	0.184	0.187	0.184	0.199	0.197	0.202	0.205	0.207	0.206	0.221										0.197031	6.73	0.067	1
n-HEXANE		0.505	0.442	0.435	0.479	0.495	0.494	0.501	0.484	0.489	0.497										0.482263	5.02	0.05	1
TRANS-1,2-DICHLOROETHENE	0.291	0.407	0.388	0.389	0.409	0.426	0.416	0.426	0.419	0.431	0.452										0.404827	10.4	0.104	1
METHYL TERT-BUTYL ETHER	1.363	1.381	1.398	1.385	1.435	1.43	1.453	1.449	1.458	1.487	1.495										1.430425	3.06	0.031	1
1,1-DICHLOROETHANE	0.903	0.817	0.815	0.869	0.881	0.909	0.895	0.914	0.896	0.924	0.959										0.889235	4.86	0.049	1
VINYL ACETATE	1.081	1.053	1.029	0.963	1.061	1.002	0.99	1.02	1.216	1.105	0.92										1.040097	7.59	0.076	1
DI-ISOPROPYL ETHER	1.562	1.729	1.771	1.748	1.814	1.85	1.843	1.86	1.836	1.898	1.861										1.797554	5.22	0.052	1
ETHYL TERT-BUTYL ETHER	1.521	1.415	1.393	1.469	1.553	1.574	1.574	1.581	1.611	1.643	1.793										1.55704	7.12	0.071	1
2,2-DICHLOROPROPANE	0.584	0.715	0.73	0.684	0.747	0.759	0.742	0.749	0.748	0.745	0.765										0.724335	7.13	0.071	1
CIS-1,2-DICHLOROETHENE	0.413	0.454	0.43	0.433	0.457	0.467	0.453	0.456	0.45	0.462	0.487										0.45107	4.37	0.044	1
2-BUTANONE (MEK)				0.197	0.299	0.288	0.3	0.29	0.286	0.287	0.322										0.283507	13.02	0.13	1
BROMOCHLOROMETHANE	0.173	0.214	0.205	0.222	0.225	0.24	0.225	0.214	0.21	0.203	0.196										0.211686	8.36	0.084	1
TETRAHYDROFURAN			0.342	0.327	0.31	0.288	0.286	0.251	0.249	0.24	0.25										0.282652	13.36	0.134	1
CHLOROFORM	0.811	0.757	0.792	0.815	0.823	0.848	0.834	0.852	0.838	0.855	0.91										0.830432	4.7	0.047	1
CYCLOHEXANE		0.725	0.725	0.671	0.789	0.803	0.793	0.803	0.796	0.798	0.859										0.776144	6.93	0.069	1
DIBROMOFLUOROMETHANE	0.547	0.541	0.533	0.536	0.531	0.538	0.542	0.54	0.534	0.536	0.554										0.53932	1.26	0.013	1
1,1,1-TRICHLOROETHANE	0.52	0.657	0.636	0.642	0.697	0.702	0.698	0.708	0.705	0.711	0.769										0.676721	9.42	0.094	1
CARBON TETRACHLORIDE		0.553	0.528	0.556	0.587	0.595	0.593	0.62	0.614	0.611	0.648										0.590521	6.13	0.061	1

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260B	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.613	0.586	0.582	0.671	0.676	0.679	0.688	0.676	0.687	0.755										0.66119	8.01	0.08	1
2,2,4-TRIMETHYLPENTANE		1.761	1.763	1.603	1.882	1.868	1.908	1.943	1.957	1.966	1.89										1.854052	6.13	0.061	1
n-Heptane		0.433	0.414	0.403	0.474	0.48	0.479	0.483	0.483	0.486	0.499										0.463361	7.23	0.072	1
BENZENE	1.93	1.857	1.871	1.83	1.966	1.987	1.99	1.999	1.972	2.02	2.104										1.956967	4.08	0.041	1
TERT-AMYL METHYL ETHER	1.676	1.512	1.473	1.383	1.446	1.451	1.465	1.464	1.461	1.504	1.584										1.492639	5.25	0.052	1
1,2-DICHLOROETHANE	0.608	0.57	0.618	0.597	0.66	0.664	0.673	0.674	0.679	0.69	0.731										0.651345	7.26	0.073	1
T-AMYL ALCOHOL	0.045	0.055	0.059	0.059	0.063	0.063	0.07	0.069	0.071	0.07	0.075										0.063505	13.85	0.138	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.214	0.222	0.215	0.228	0.233	0.234	0.234	0.234	0.234	0.24										0.228777	3.89	0.039	1
METHYL CYCLOHEXANE			0.998	0.694	0.61	0.56	0.518	0.514	0.513	0.513	0.531										0.605783	26.27	0.999	0
1,2-DICHLOROPROPANE	0.189	0.176	0.194	0.196	0.191	0.199	0.196	0.201	0.206	0.207	0.202										0.196255	4.49	0.045	1
DIBROMOMETHANE	0.114	0.138	0.135	0.133	0.139	0.137	0.141	0.141	0.142	0.143	0.141										0.136757	5.9	0.059	1
BROMODICHLOROMETHANE	0.414	0.361	0.343	0.317	0.337	0.335	0.336	0.339	0.34	0.346	0.349										0.347074	7.09	0.071	1
A,A,A-TRIFLUOROTOLUENE	0.515	0.524	0.517	0.499	0.509	0.494	0.49	0.488	0.483	0.478	0.448										0.494972	4.35	0.044	1
2-CHLOROETHYL VINYL ETHER	0.16	0.155	0.16	0.158	0.178	0.17	0.178	0.18	0.182	0.185	0.205										0.173845	8.61	0.086	1
CIS-1,3-DICHLOROPROPENE	0.398	0.409	0.407	0.403	0.433	0.413	0.424	0.423	0.428	0.437	0.444										0.419875	3.58	0.036	1
4-METHYL-2-PENTANONE (MIBK)	0.246	0.249	0.271	0.261	0.294	0.278	0.306	0.301	0.308	0.302	0.307										0.283887	8.38	0.084	1
TOLUENE-D8	1.284	1.303	1.276	1.244	1.27	1.253	1.219	1.229	1.197	1.2	1.136										1.237561	3.88	0.039	1
TOLUENE	1.02	1.112	1.063	1.071	1.125	1.093	1.091	1.11	1.113	1.129	1.102										1.09377	2.91	0.029	1
TRANS-1,3-DICHLOROPROPENE	0.347	0.385	0.375	0.351	0.382	0.385	0.395	0.402	0.415	0.424	0.435										0.390576	7.1	0.071	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	0.973	0.864	1.092	1.058	1.124	1.086	1.113	1.103	1.121	1.11	1.136										1.070994	7.65	0.077	1
TETRACHLOROETHENE		0.881	0.832	0.846	0.889	0.889	0.886	0.909	0.917	0.905	0.974										0.892753	4.36	0.044	1
1,3-DICHLOROPROPANE	1.924	1.867	2.023	2.009	2.13	2.118	2.155	2.161	2.164	2.208	2.272										2.093765	5.9	0.059	1
2-HEXANONE				0.405	0.522	0.527	0.606	0.595	0.618	0.593	0.637										0.56298	13.46	0.135	1
CHLORODIBROMOMETHANE	0.889	0.971	0.999	1.036	1.086	1.073	1.133	1.14	1.165	1.198	1.267										1.087064	10.03	0.1	1
1,2-DIBROMOETHANE		0.989	1.057	1.023	1.114	1.063	1.116	1.097	1.11	1.117	1.152										1.083687	4.6	0.046	1
CHLOROBENZENE	2.731	3.063	3.139	3.234	3.377	3.299	3.411	3.422	3.545	3.562	3.804										3.326069	8.61	0.086	1
1,1,1,2-TETRACHLOROETHANE	0.883	0.851	0.948	0.977	1.063	1.042	1.092	1.069	1.094	1.12	1.161										1.027259	9.69	0.097	1
ETHYLBENZENE		1.705	1.788	1.795	1.996	1.956	1.981	2.004	2.061	2.111	2.25										1.964581	8.36	0.084	1
M&P-XYLENE	2.086	2.216	2.256	2.318	2.446	2.43	2.49	2.481	2.569	2.615	2.79										2.427013	8.21	0.082	1
O-XYLENE	1.83	2.113	2.256	2.13	2.359	2.3	2.342	2.363	2.419	2.446	2.511										2.278923	8.45	0.084	1
STYRENE	2.781	3.232	3.455	3.513	3.842	3.848	3.963	3.981	4.069	4.14	4.446										3.751914	12.52	0.125	1
BROMOFORM		0.472	0.661	0.609	0.66	0.664	0.712	0.719	0.758	0.767	0.79										0.681168	13.65	0.137	1
ISOPROPYLBENZENE	4.989	5.877	6.109	6.22	6.444	6.386	6.565	6.541	6.751	6.755	6.928										6.324078	8.51	0.085	1
4-BROMOFLUOROBENZENE	2.459	2.498	2.524	2.475	2.504	2.427	2.445	2.415	2.421	2.43	2.397										2.454168	1.69	0.017	1
BROMOBENZENE	2.754	2.667	2.879	2.712	2.861	2.797	2.886	2.937	2.979	3.059	3.228										2.887229	5.61	0.056	1
1,1,2,2-TETRACHLOROETHANE	1.36	1.389	1.54	1.422	1.581	1.527	1.631	1.633	1.684	1.673	1.702										1.558448	7.83	0.078	1
1,2,3-TRICHLOROPROPANE		0.332	0.377	0.38	0.461	0.427	0.456	0.463	0.478	0.481	0.503										0.435733	12.7	0.127	1
TRANS-1,4-DICHLORO-2-BUTENE				0.407	0.506	0.486	0.546	0.565	0.586	0.604	0.679										0.547303	15.07	0.151	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	6.22	7.204	7.311	7.209	7.869	7.686	7.969	7.896	8.154	8.16	8.465										7.649356	8.21	0.082	1
4-ETHYLTOLUENE	4.962	5.572	5.664	5.533	6.113	6.145	6.302	6.423	6.61	6.742	6.954										6.092845	9.89	0.099	1
2-CHLOROTOLUENE	4.512	5.098	4.631	4.425	4.939	4.936	4.991	5.116	5.371	5.521	5.9										5.040075	8.73	0.087	1
4-CHLOROTOLUENE	4.133	4.043	4.564	4.394	4.497	4.463	4.537	4.65	4.781	4.841	5.149										4.550235	6.86	0.069	1
1,3,5-TRIMETHYLBENZENE	4.693	4.974	5.362	4.863	5.277	5.236	5.354	5.491	5.598	5.746	6.111										5.336842	7.6	0.076	1
TERT-BUTYLBENZENE	3.359	4.362	4.075	4.153	4.524	4.344	4.445	4.528	4.617	4.678	4.837										4.356542	9.14	0.091	1
1,2,4-TRIMETHYLBENZENE	4.607	4.709	4.865	4.959	5.098	5.127	5.174	5.256	5.456	5.52	5.857										5.148082	7.14	0.071	1
SEC-BUTYLBENZENE	4.51	6.207	6.661	6.312	6.796	6.804	6.908	7.115	7.27	7.279	7.324										6.653287	12.07	0.121	1
1,3-DICHLOROBENZENE	2.136	2.127	2.27	2.101	2.385	2.405	2.463	2.519	2.546	2.606	2.636										2.381193	8.24	0.082	1
P-ISOPROPYLTOLUENE	3.768	4.727	4.837	4.821	5.613	5.582	5.589	5.74	5.811	5.948	6.265										5.336526	13.47	0.135	1
DICYCLOPENTADIENE	5.544	6.446	6.829	6.655	7.119	6.969	7.101	7.149	7.458	7.488	7.717										6.952399	8.58	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.116	1.042	1.088	1.089	1.09	1.141	1.109	1.134	1.104	1.163	1.124										1.109064	2.93	0.029	1
1,2,3-TRIMETHYLBENZENE	2.194	2.263	2.347	2.236	2.414	2.462	2.418	2.444	2.422	2.452	2.465										2.374193	4.16	0.042	1
1,2-DICHLOROBENZENE	0.839	0.826	0.905	0.921	0.987	1.037	1.016	1.007	0.992	0.993	0.972										0.954098	7.48	0.075	1
N-BUTYLBENZENE	1.694	1.923	2.012	2.028	2.389	2.454	2.471	2.493	2.478	2.447	2.388										2.2523	12.57	0.126	1
1,2-DIBROMO-3-CHLOROPROPANE				0.091	0.11	0.106	0.126	0.127	0.127	0.122	0.122										0.116312	11.22	0.112	1
1,2,4-TRICHLOROBENZENE		0.448	0.515	0.474	0.564	0.58	0.6	0.592	0.609	0.606	0.597										0.558496	10.49	0.105	1
HEXACHLORO-1,3-BUTADIENE		0.2	0.217	0.225	0.265	0.254	0.269	0.266	0.267	0.267	0.25										0.247875	10.14	0.101	1
NAPHTHALENE		1.441	1.468	1.494	1.684	1.658	1.821	1.778	1.793	1.756	1.73										1.662	8.62	0.086	1
1,2,3-TRICHLOROBENZENE	0.401	0.427	0.471	0.475	0.547	0.548	0.585	0.564	0.559	0.562	0.531										0.51545	11.98	0.12	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808A03Q
Review Method : 8260B
Review Protocol : SW846
Released By : John Heath
Released On : 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE		0.583	0.69	0.648	0.775	0.792	0.814	0.84	0.785	0.772	0.773										0.747323	10.82	0.108	1
2-METHYLNAPHTHALENE	0.56	0.665	0.724	0.746	0.748	0.716	0.782	0.761	0.737	0.707	0.671										0.710685	8.65	0.087	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005032	6.15	0.062	1
BROMOETHANE												0.183	0.207	0.225	0.229	0.245	0.265	0.265	0.276	0.279	0.241586	13.72	0.137	1
2-PROPANOL												0.03	0.034	0.032	0.031	0.03	0.031	0.03	0.031	0.032	0.031223	3.97	0.04	1
ACETONITRILE												0.077	0.08	0.075	0.075	0.072	0.075	0.071	0.074	0.077	0.075216	3.63	0.036	1
TERT-BUTYL ALCOHOL												0.08	0.086	0.08	0.074	0.071	0.076	0.071	0.071	0.076	0.07615	6.78	0.068	1
CHLOROPRENE												0.738	0.749	0.767	0.726	0.744	0.792	0.767	0.79	0.789	0.762365	3.21	0.032	1
PROPIONITRILE												0.091	0.096	0.092	0.09	0.086	0.092	0.089	0.091	0.097	0.091598	3.66	0.037	1
ETHYL ACETATE												0.595	0.607	0.586	0.576	0.539	0.581	0.557	0.561	0.589	0.576745	3.68	0.037	1
METHACRYLONITRILE												0.203	0.212	0.21	0.2	0.196	0.208	0.2	0.207	0.22	0.206402	3.62	0.036	1
TERT-BUTYL FORMATE												0.399	0.409	0.417	0.412	0.418	0.436	0.425	0.426	0.44	0.420214	3.16	0.032	1
ISOBUTANOL												0.032	0.032	0.03	0.03	0.028	0.03	0.028	0.029	0.031	0.030156	4.88	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007671	2.87	0.029	1
2-NITROPROPANE												0.085	0.09	0.091	0.091	0.091	0.095	0.088	0.09	0.096	0.090721	3.65	0.037	1
METHYL METHACRYLATE												0.313	0.318	0.311	0.306	0.315	0.32	0.303	0.308	0.321	0.312743	1.99	0.02	1
1,4-DIOXANE												0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002131	4.66	0.047	1
N-OCTANE												0.192	0.194	0.197	0.196	0.205	0.207	0.198	0.202	0.199	0.19879	2.59	0.026	1

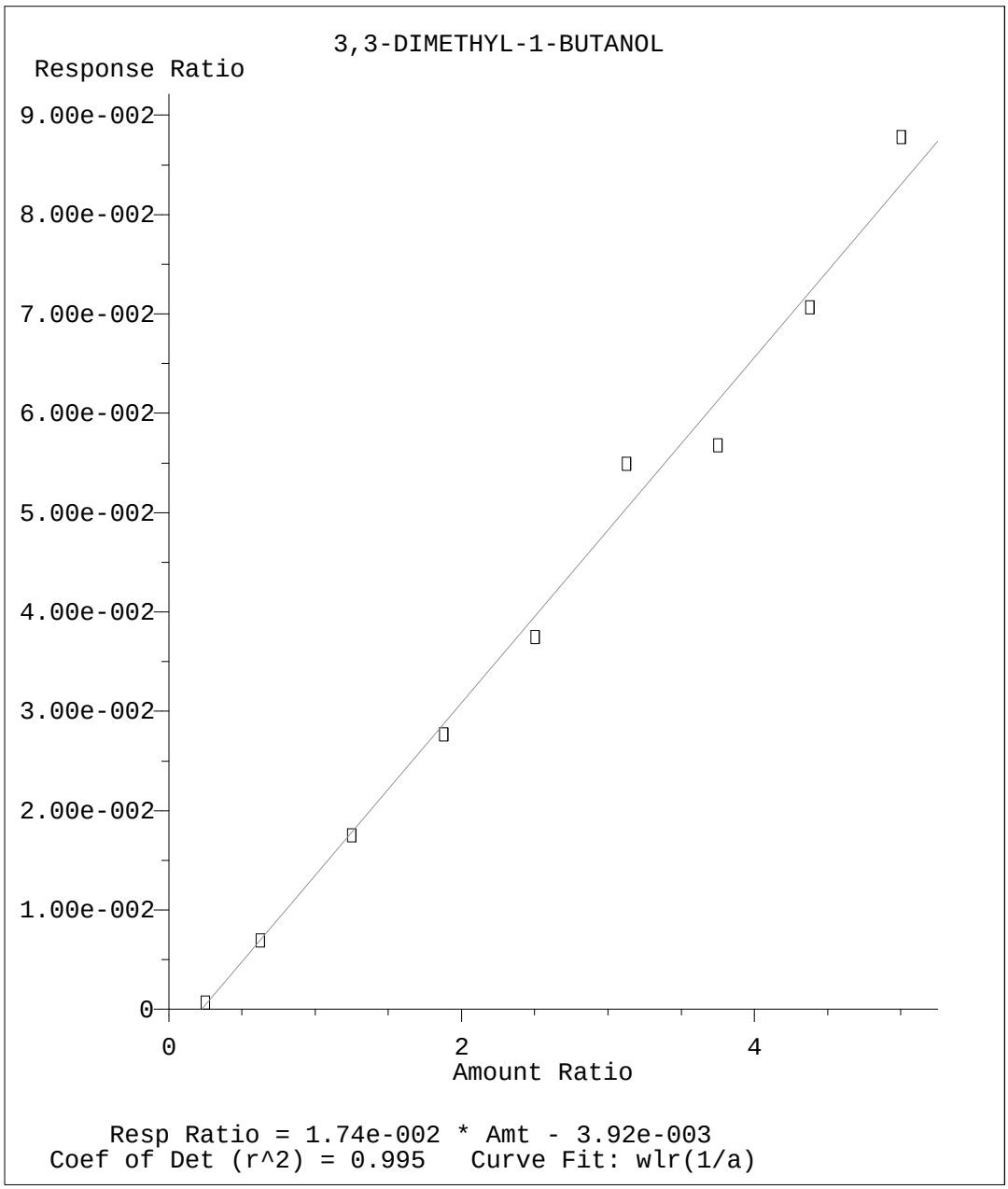
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

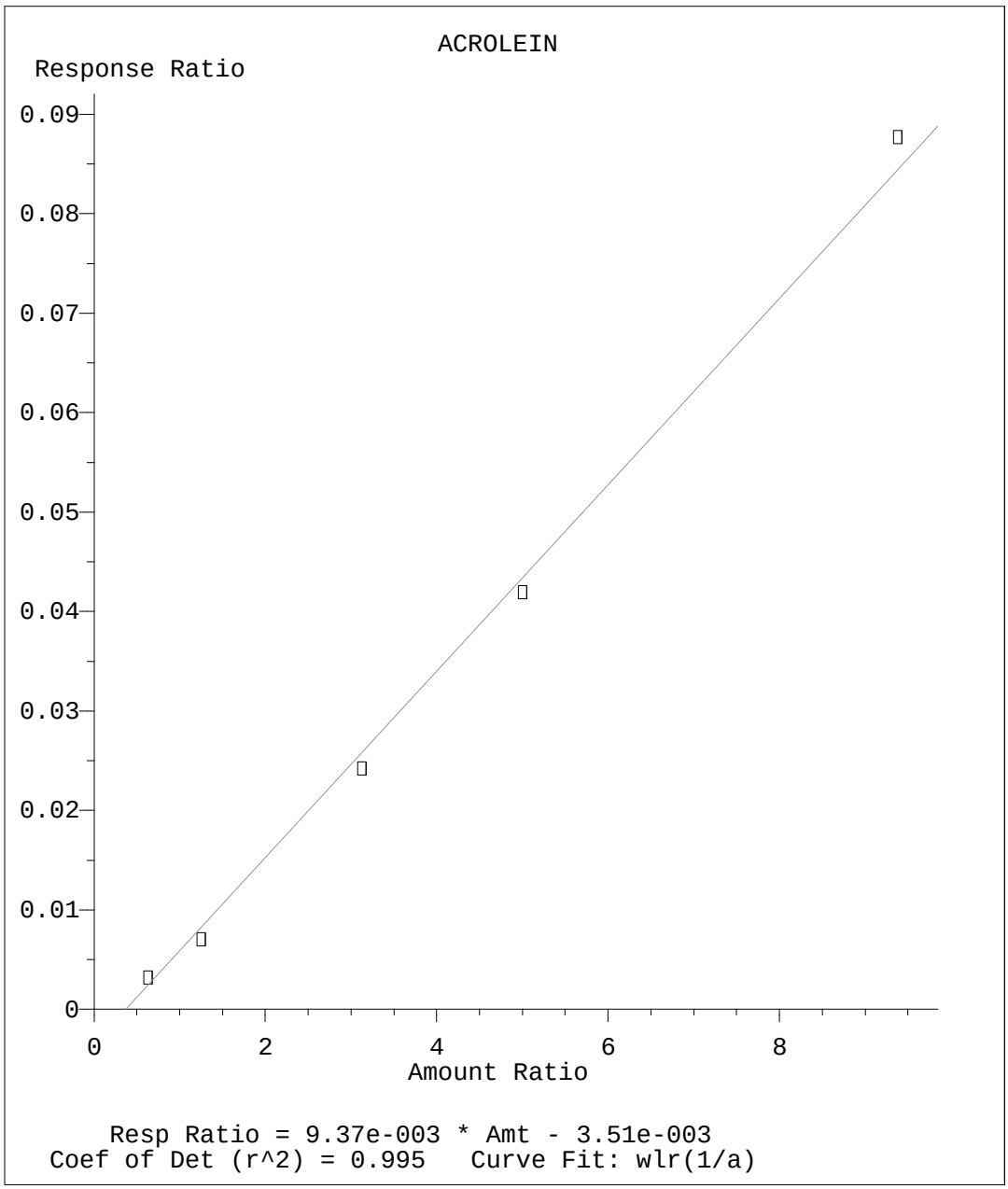
Instrument ID	: VOCMS8	Review Method	: 8260B	Released By	: John Heath
Method	: V808A03Q	Review Protocol	: SW846	Released On	: 1/4/2017 11:23:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808A03Q -- ICal Updated Time: Wed Jan 04 11:09:03 2017

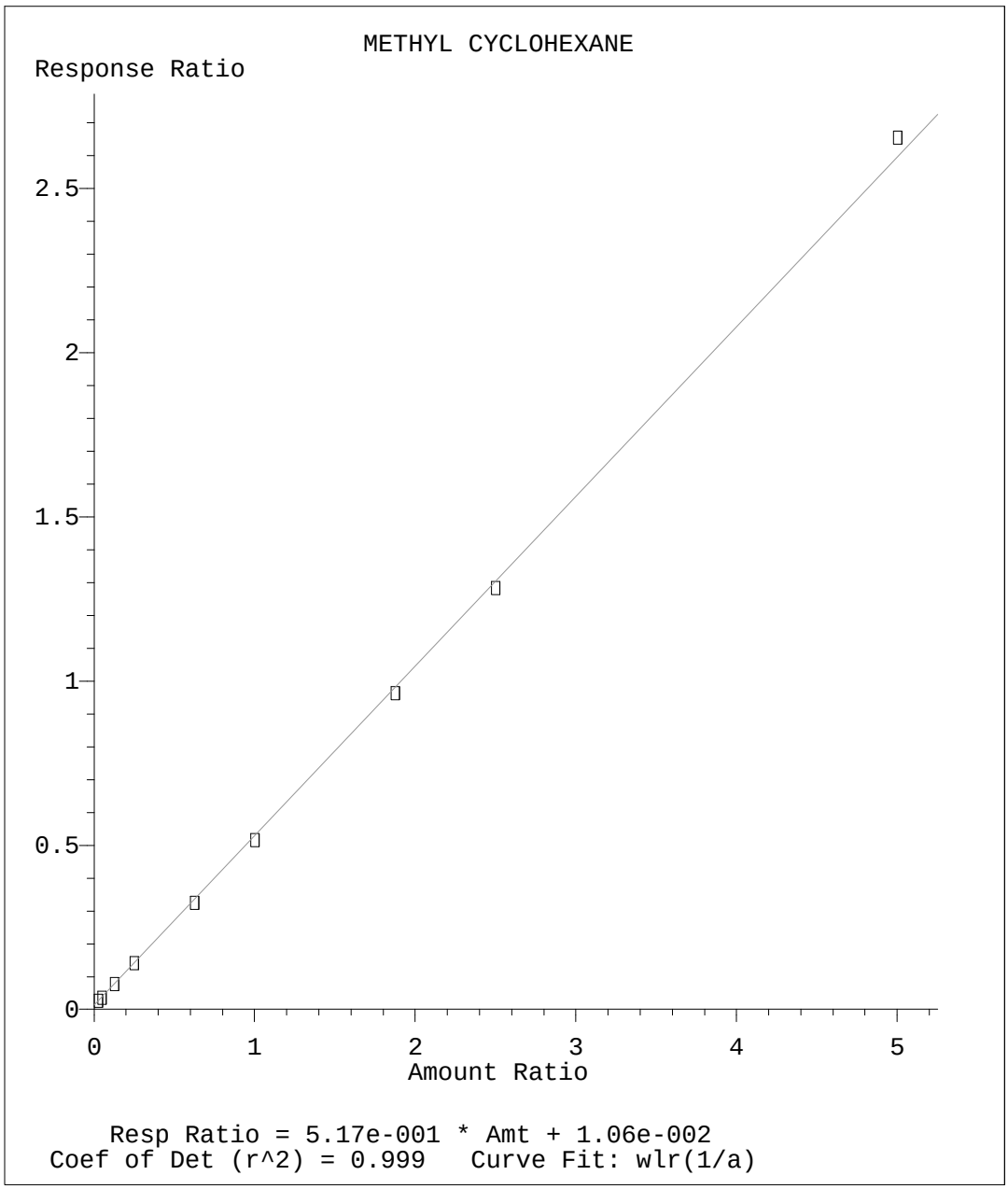
Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.003	0.011	0.014	0.015	0.015	0.018	0.015	0.016	0.018	0.013749	33.71	0.995	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.378	1.586	1.639	1.609	1.669	1.723	1.641	1.629	1.755	1.62532	6.59	0.066	1
CIS-1,4-DICHLORO-2-BUTENE												0.531	0.612	0.608	0.597	0.612	0.632	0.604	0.597	0.645	0.604222	5.25	0.052	1
CYCLOHEXANONE												0.036	0.042	0.05	0.05	0.047	0.047	0.044	0.045	0.048	0.045415	9.55	0.096	1
PENTACHLOROETHANE												0.647	0.642	0.671	0.67	0.722	0.74	0.704	0.721	0.746	0.695766	5.67	0.057	1
HEXACHLOROETHANE												0.749	0.811	0.853	0.83	0.867	0.909	0.861	0.909	0.909	0.855401	6.22	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								



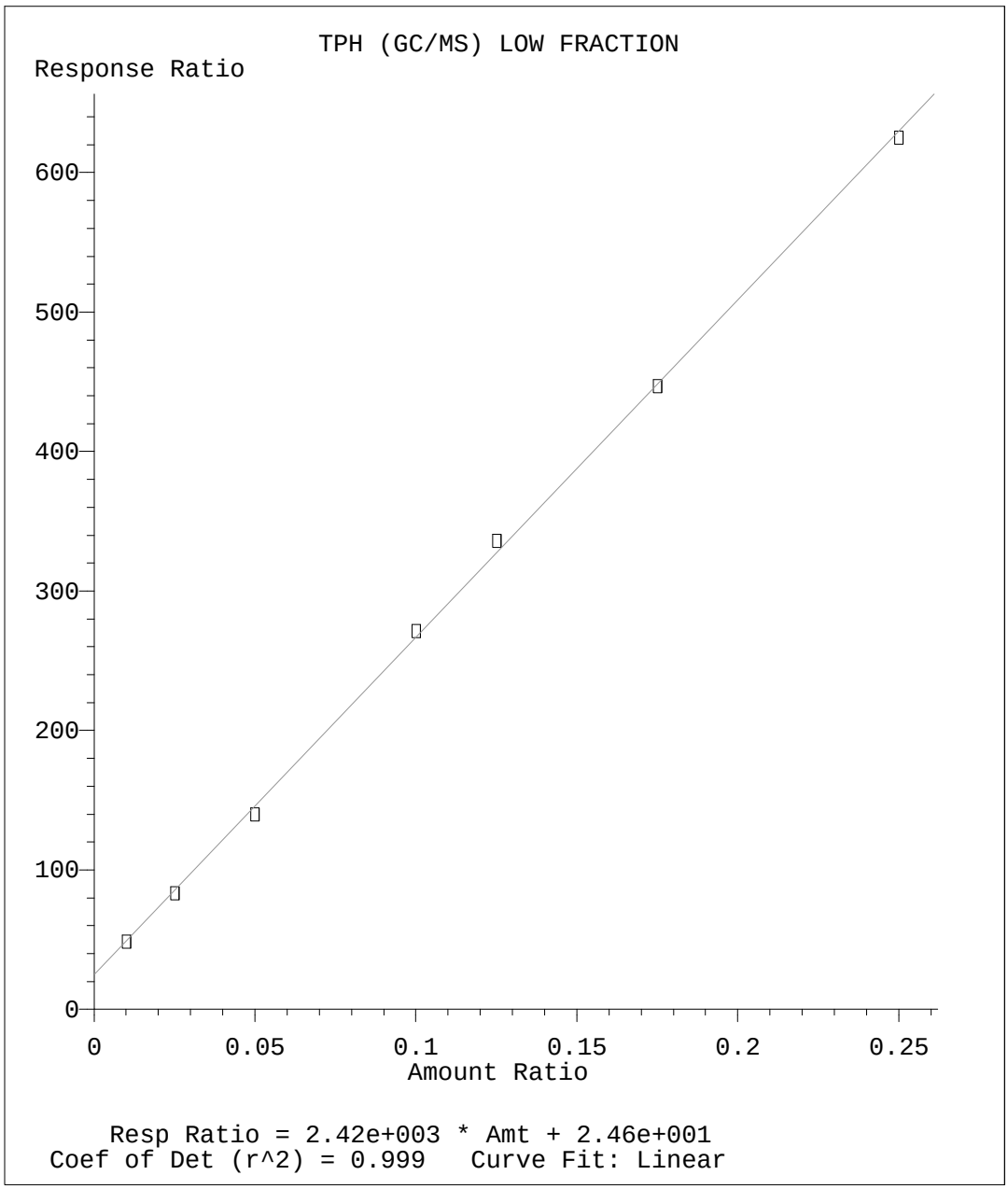
Method Name: C:\MSDCHEM\1\METHODS\V808A03Q.M



Method Name: C:\MSDCHEM\1\METHODS\V808A03Q.M



Method Name: C:\MSDCHEM\1\METHODS\V808A03Q.M



Method Name: C:\MSDCHEM\1\METHODS\V808A03Q.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:43:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	748600	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1366455	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	263834	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	579077	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.55	168	750524	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1366455	40.00	ppb		-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	263834	40.00	ppb		-0.01
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	579077	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	411533	40.7725738	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.93%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	709152	41.9395226	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.85%				
58) TOLUENE-D8	5.72	98	1773202	41.9426987	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.86%				
76) 4-BROMOFLUOROBENZENE	7.62	95	654903	40.4577629	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.14%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	6208	0.8633125	ppb		84
6) CHLOROMETHANE	2.03	50	21381	1.4463924	ppb	#	68
8) 1,3-BUTADIENE	2.04	39	229505	23.6083817	ppb	#	7
9) BROMOMETHANE	2.35	94	4341	0.4511743	ppb	#	87
14) ACROLEIN	3.14	56	4669	41.5961343	ppb	#	63
17) ACETONE	3.31	43	18949	5.8141924	ppb		95
18) IODOMETHANE	3.04	142	15430	1.5837996	ppb		98
19) CARBON DISULFIDE	2.97	76	11255	0.4542165	ppb	#	90
20) ALLYL CHLORIDE	3.23	76	2025	0.4128805	ppb		92
21) METHYLENE CHLORIDE	3.29	84	1939	0.2327149	ppb	#	76
22) METHYL ACETATE	3.37	43	6316	0.8107166	ppb	#	81
23) ACRYLONITRILE	3.78	53	3725	1.0101873	ppb	#	84
24) n-HEXANE	3.42	56	3268	0.3620830	ppb	#	84
28) VINYL ACETATE	3.86	43	16060	0.8250530	ppb		96
32) CIS-1,2-DICHLOROETHENE	4.07	96	1527	0.1808860	ppb	#	75
33) 2-BUTANONE (MEK)	4.37	43	5329	1.0043672	ppb	#	86
34) BROMOCHLOROMETHANE	4.19	130	737	0.1860314	ppb	#	21
35) TETRAHYDROFURAN	4.32	42	18310	3.4613584	ppb	#	74
36) CHLOROFORM	4.21	83	4025	0.2589835	ppb	#	88
42) 2,2,4-TRIMETHYLPENTANE	4.46	57	11492	0.3311951	ppb	#	77
43) n-Heptane	4.49	71	3361	0.3875784	ppb	#	97
44) BENZENE	4.56	78	8820	0.2408215	ppb	#	1
46) 1,2-DICHLOROETHANE	4.68	62	2512	0.2060719	ppb	#	77
50) METHYL CYCLOHEXANE	4.89	83	20067	0.3190103	ppb	#	47
51) 1,2-DICHLOROPROPANE	5.25	62	16962	2.5299983	ppb	#	43
52) DIBROMOMETHANE	5.15	93	1140	0.2440165	ppb	#	81
55) 2-CHLOROETHYL VINYL ETHER	5.53	63	2076	0.3495661	ppb	#	95
56) CIS-1,3-DICHLOROPROPENE	5.61	75	2449	0.1707392	ppb	#	75
57) 4-METHYL-2-PENTANONE (MIBK	5.98	43	1790	0.1845748	ppb	#	38
59) TOLUENE	5.76	91	15941	0.4266327	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	6.01	75	2303	0.1726048	ppb	#	75
64) 1,3-DICHLOROPROPANE	6.31	76	1923	0.1392453	ppb	#	62
71) M&P-XYLENE	6.86	106	5349	0.3341410	ppb		85
77) BROMOBENZENE	7.72	77	2563	0.1345850	ppb	#	83
80) TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	827	0.2290904	ppb	#	31

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:43:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

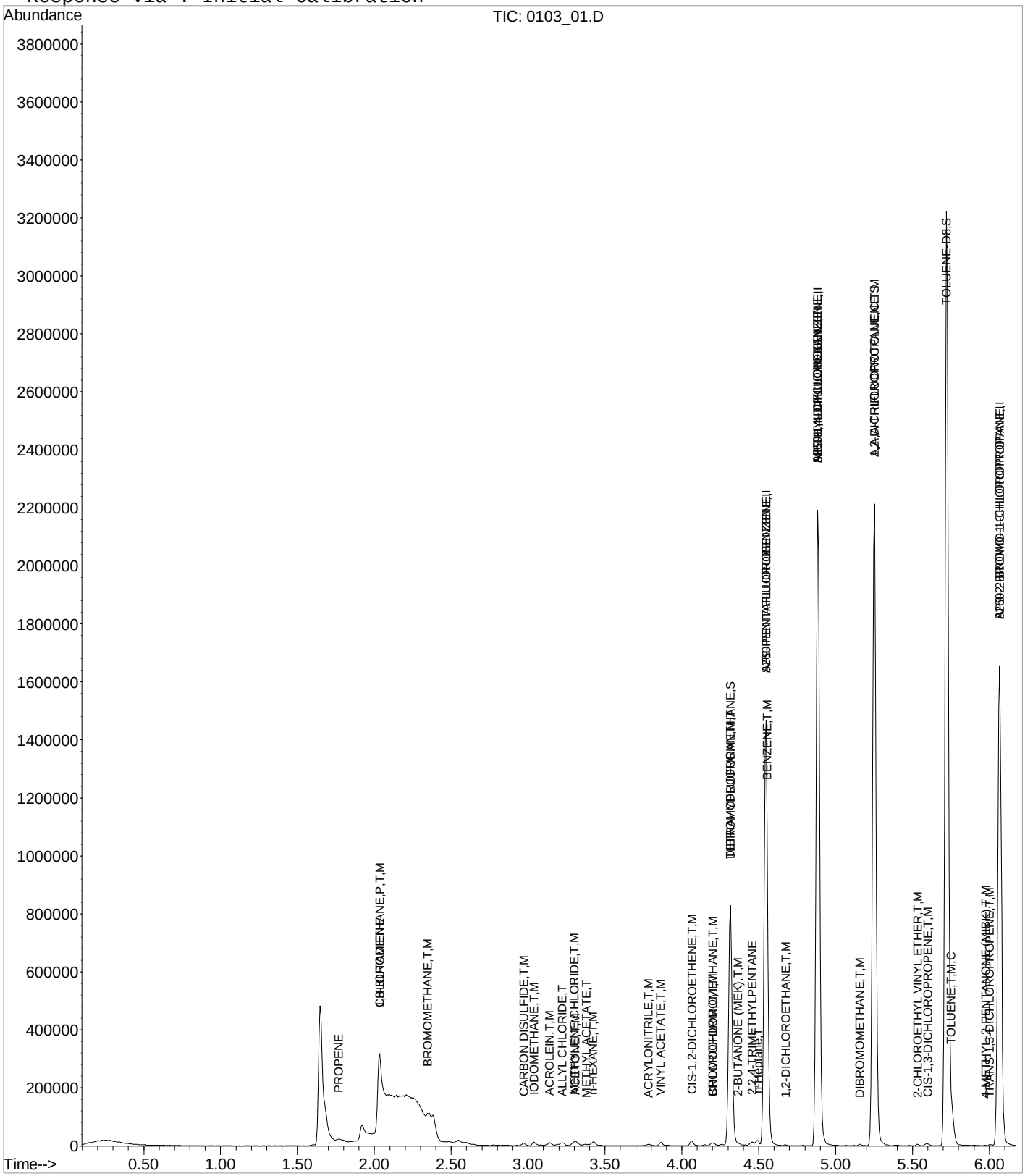
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
82)	4-ETHYLTOLUENE	7.76	105	8008	0.1992660	ppb		94
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	7554	0.2224645	ppb		91
89)	1,3-DICHLOROBENZENE	8.42	146	2274	0.1447855	ppb	#	82
93)	1,4-DICHLOROBENZENE	8.48	146	2819	0.1755748	ppb	#	1
95)	1,2-DICHLOROBENZENE	8.83	146	2016	0.1459557	ppb	#	76
96)	N-BUTYLBENZENE	8.65	91	5213	0.1598767	ppb	#	95
98)	1,2,4-TRICHLOROBENZENE	10.03	180	1966	0.2431572	ppb	#	81
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	964	0.2686382	ppb	#	71
100)	NAPHTHALENE	10.29	128	6471	0.2689454	ppb	#	78
101)	1,2,3-TRICHLOROBENZENE	10.45	180	3075	0.4120806	ppb	#	66
102)	1-METHYLNAPHTHALENE	11.18	142	4071	0.3762848	ppb	#	93
103)	2-METHYLNAPHTHALENE	11.32	142	3764	0.3658442	ppb	#	80

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:43 2017 Quant Results File: V808A03Q.RES

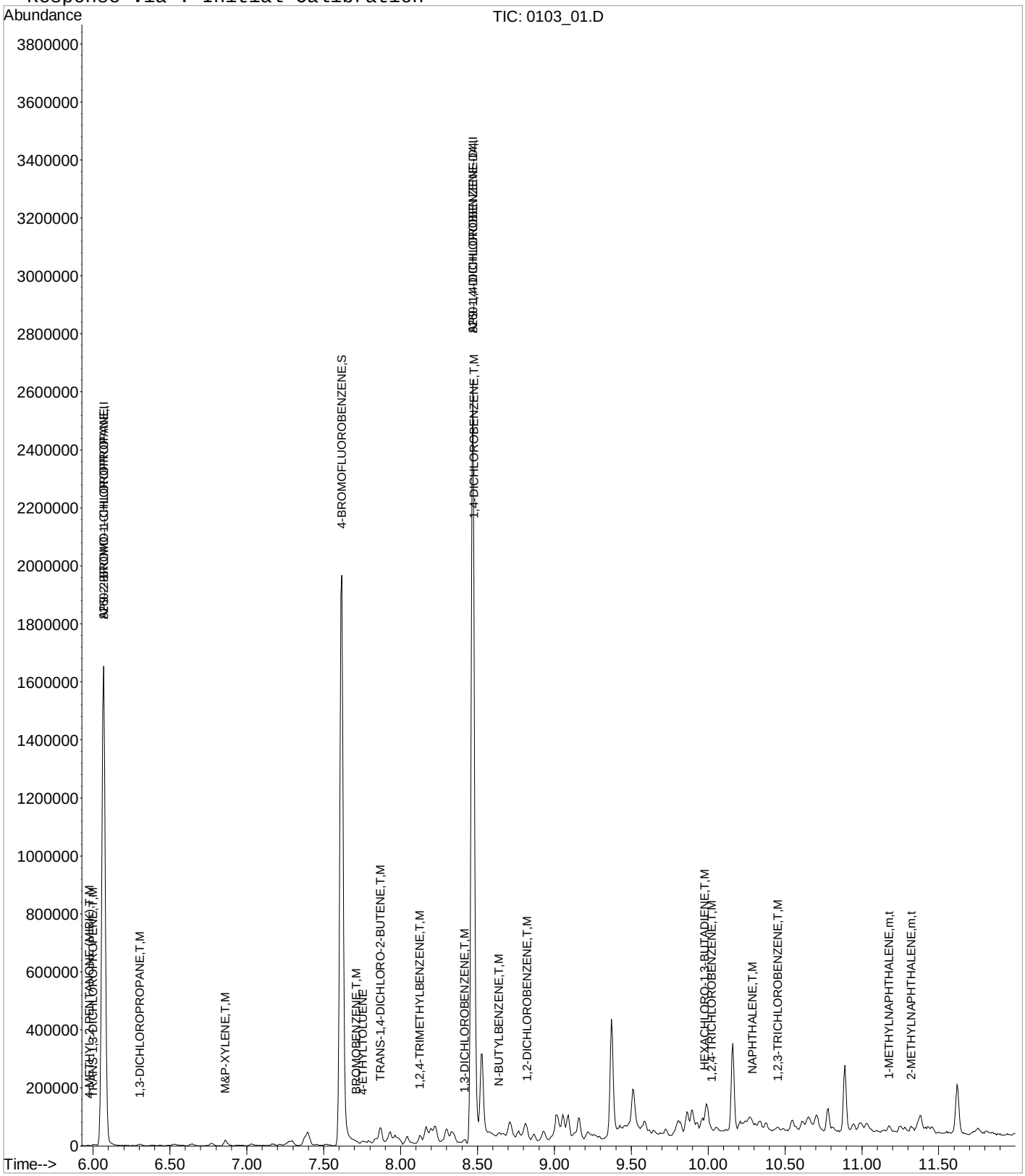
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:43 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:43:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	748600	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1366455	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	263834	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	579077	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.55	168	750524	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1366455	40.00	ppb		-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	263834	40.00	ppb		-0.01
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	579077	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	411533	40.7725738	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.93%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	709152	41.9395226	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.85%				
58) TOLUENE-D8	5.72	98	1773202	41.9426987	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.86%				
76) 4-BROMOFLUOROBENZENE	7.62	95	654903	40.4577629	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.14%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	6208	0.8633125	ppb		84
6) CHLOROMETHANE	2.03	50	21381	1.4463924	ppb	#	68
8) 1,3-BUTADIENE	2.04	39	229505	23.6083817	ppb	#	7
9) BROMOMETHANE	2.35	94	4341	0.4511743	ppb	#	87
14) ACROLEIN	3.14	56	4669	41.5961343	ppb	#	63
17) ACETONE	3.31	43	18949	5.8141924	ppb		95
18) IODOMETHANE	3.04	142	15430	1.5837996	ppb		98
19) CARBON DISULFIDE	2.97	76	11255	0.4542165	ppb	#	90
20) ALLYL CHLORIDE	3.23	76	2025	0.4128805	ppb		92
21) METHYLENE CHLORIDE	3.29	84	1939	0.2327149	ppb	#	76
22) METHYL ACETATE	3.37	43	6316	0.8107166	ppb	#	81
23) ACRYLONITRILE	3.78	53	3725	1.0101873	ppb	#	84
24) n-HEXANE	3.42	56	3268	0.3620830	ppb	#	84
28) VINYL ACETATE	3.86	43	16060	0.8250530	ppb		96
32) CIS-1,2-DICHLOROETHENE	4.07	96	1527	0.1808860	ppb	#	75
33) 2-BUTANONE (MEK)	4.37	43	5329	1.0043672	ppb	#	86
34) BROMOCHLOROMETHANE	4.19	130	737	0.1860314	ppb	#	21
35) TETRAHYDROFURAN	4.32	42	18310	3.4613584	ppb	#	74
36) CHLOROFORM	4.21	83	4025	0.2589835	ppb	#	88
42) 2,2,4-TRIMETHYLPENTANE	4.46	57	11492	0.3311951	ppb	#	77
43) n-Heptane	4.49	71	3361	0.3875784	ppb	#	97
44) BENZENE	4.56	78	8820	0.2408215	ppb	#	1
46) 1,2-DICHLOROETHANE	4.68	62	2512	0.2060719	ppb	#	77
50) METHYL CYCLOHEXANE	4.89	83	20067	0.3190103	ppb	#	47
51) 1,2-DICHLOROPROPANE	5.25	62	16962	2.5299983	ppb	#	43
52) DIBROMOMETHANE	5.15	93	1140	0.2440165	ppb	#	81
55) 2-CHLOROETHYL VINYL ETHER	5.53	63	2076	0.3495661	ppb	#	95
56) CIS-1,3-DICHLOROPROPENE	5.61	75	2449	0.1707392	ppb	#	75
57) 4-METHYL-2-PENTANONE (MIBK	5.98	43	1790	0.1845748	ppb	#	38
59) TOLUENE	5.76	91	15941	0.4266327	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	6.01	75	2303	0.1726048	ppb	#	75
64) 1,3-DICHLOROPROPANE	6.31	76	1923	0.1392453	ppb	#	62
71) M&P-XYLENE	6.86	106	5349	0.3341410	ppb		85
77) BROMOBENZENE	7.72	77	2563	0.1345850	ppb	#	83
80) TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	827	0.2290904	ppb	#	31

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:43:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

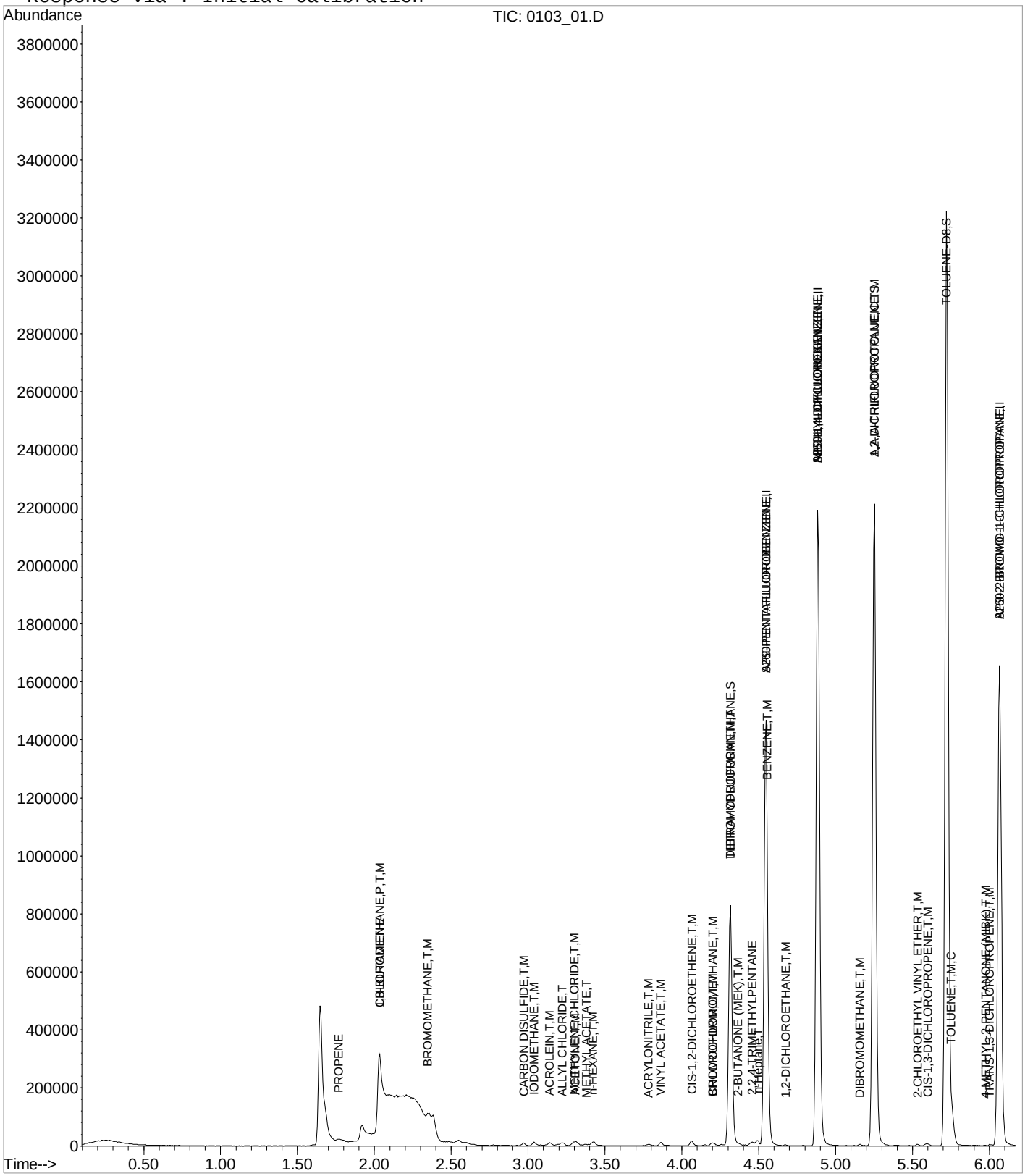
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
82)	4-ETHYLTOLUENE	7.76	105	8008	0.1992660	ppb		94
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	7554	0.2224645	ppb		91
89)	1,3-DICHLOROBENZENE	8.42	146	2274	0.1447855	ppb	#	82
93)	1,4-DICHLOROBENZENE	8.48	146	2819	0.1755748	ppb	#	1
95)	1,2-DICHLOROBENZENE	8.83	146	2016	0.1459557	ppb	#	76
96)	N-BUTYLBENZENE	8.65	91	5213	0.1598767	ppb	#	95
98)	1,2,4-TRICHLOROBENZENE	10.03	180	1966	0.2431572	ppb	#	81
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	964	0.2686382	ppb	#	71
100)	NAPHTHALENE	10.29	128	6471	0.2689454	ppb	#	78
101)	1,2,3-TRICHLOROBENZENE	10.45	180	3075	0.4120806	ppb	#	66
102)	1-METHYLNAPHTHALENE	11.18	142	4071	0.3762848	ppb	#	93
103)	2-METHYLNAPHTHALENE	11.32	142	3764	0.3658442	ppb	#	80

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

Quantitation Report (QT Reviewed)

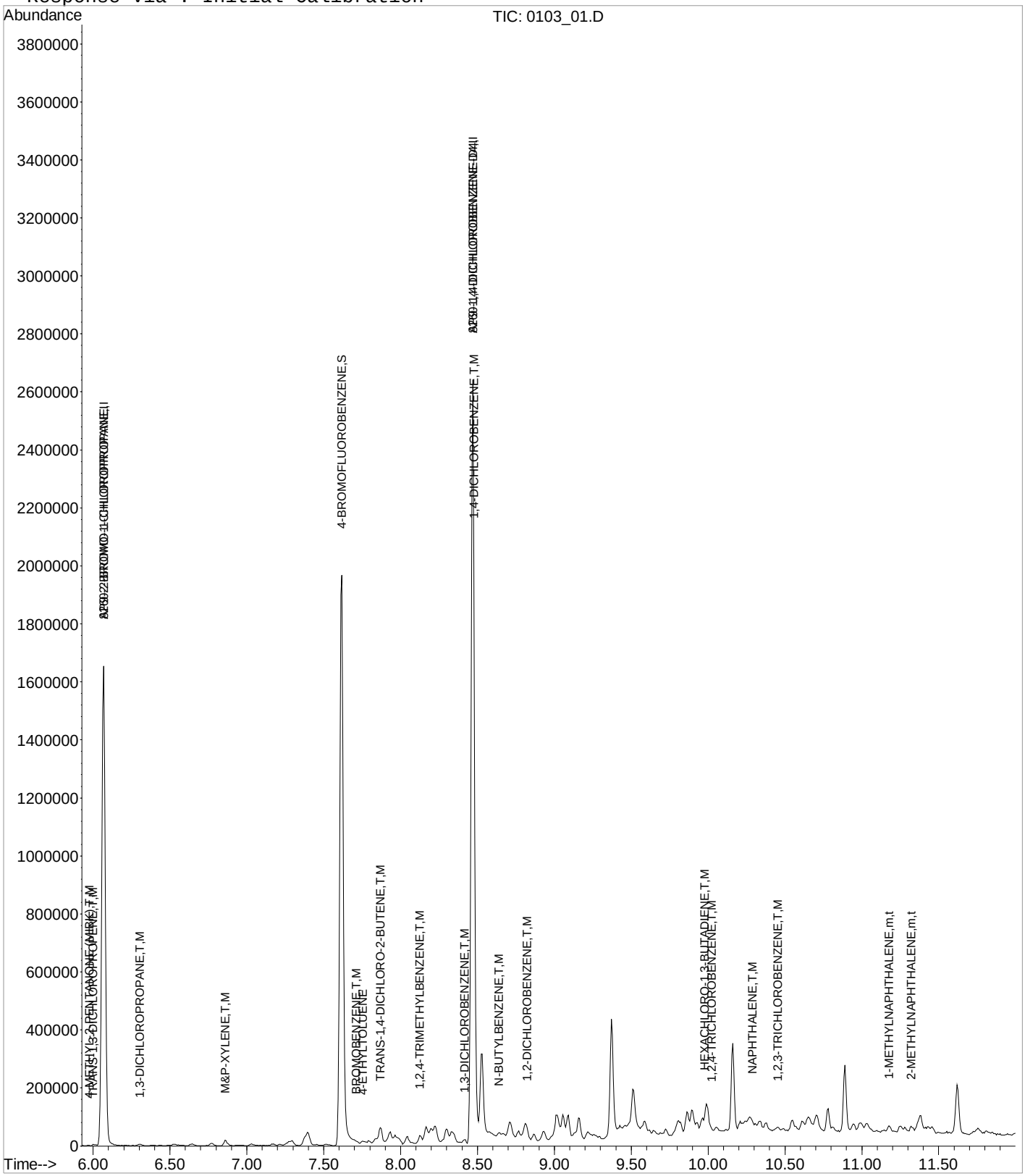
Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:43 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\010317\0103_01.D Vial: 1
Acq On : 3 Jan 2017 11:06 am Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:43 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:37:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07A.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : RL VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:47:53 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	737798	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1311836	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	241648	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	549473	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.55	168	739645	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1311836	40.00	ppb		-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	241648	40.00	ppb		-0.01
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	549473	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	402880	40.4996732	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.25%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	695723	42.8584343	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.15%				
58) TOLUENE-D8	5.72	98	1716135	42.2829614	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.71%				
76) 4-BROMOFLUOROBENZENE	7.61	95	625288	42.1747518	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.44%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	7256	1.0238255	ppb		98
5) DICHLORODIFLUOROMETHANE	1.81	85	10187	0.9401062	ppb		98
6) CHLOROMETHANE	2.00	50	13944	0.9571011	ppb		92
7) VINYL CHLORIDE	2.07	62	11363	0.9492109	ppb		99
8) 1,3-BUTADIENE	2.09	39	11062	1.1545695	ppb	#	76
9) BROMOMETHANE	2.35	94	12084	1.2743175	ppb		97
10) CHLOROETHANE	2.44	64	7532	0.9685075	ppb	#	92
11) TRICHLOROFLUOROMETHANE	2.55	101	11742	0.9720371	ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	17117	0.9530513	ug/l		100
13) ETHYL ETHER	2.77	59	6721	0.8965932	ppb		92
14) ACROLEIN	3.13	56	153	15.8579338	ppb	#	15
15) 1,1-DICHLOROETHENE	2.93	96	6380	0.9409877	ppb		93
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	6473	0.9279545	ppb	#	94
17) ACETONE	3.31	43	14434	4.4936801	ppb		96
18) IODOMETHANE	3.03	142	45408	4.7291058	ppb		96
19) CARBON DISULFIDE	2.97	76	22975	0.9407740	ppb	#	93
20) ALLYL CHLORIDE	3.22	76	23662	4.8951180	ppb		91
21) METHYLENE CHLORIDE	3.29	84	7764	0.9454623	ppb		96
22) METHYL ACETATE	3.37	43	35666	4.6450854	ppb	#	99
23) ACRYLONITRILE	3.78	53	17273	4.7528680	ppb		99
24) n-HEXANE	3.42	56	8152	0.9164371	ppb	#	75
25) TRANS-1,2-DICHLOROETHENE	3.39	96	7149	0.9574101	ppb		98
26) METHYL TERT-BUTYL ETHER	3.44	73	25789	0.9774441	ppb		96
27) 1,1-DICHLOROETHANE	3.76	63	15026	0.9161134	ppb		97
28) VINYL ACETATE	3.86	43	94902	4.9467963	ppb		99
29) DI-ISOPROPYL ETHER	3.64	45	32662	0.9851069	ppb		94
30) ETHYL TERT-BUTYL ETHER	3.85	59	25696	0.8947221	ppb		97
31) 2,2-DICHLOROPROPANE	4.13	77	13460	1.0074600	ppb		100
32) CIS-1,2-DICHLOROETHENE	4.07	96	7937	0.9539698	ppb		98
33) 2-BUTANONE (MEK)	4.37	43	17496	3.3457843	ppb	#	80
34) BROMOCHLOROMETHANE	4.19	130	3786	0.9696425	ppb		93
35) TETRAHYDROFURAN	4.32	42	6312	1.2107028	ppb		95
36) CHLOROFORM	4.21	83	14608	0.9536947	ppb	#	98
37) CYCLOHEXANE	4.20	84	13367	0.9337141	ppb		96
39) 1,1,1-TRICHLOROETHANE	4.35	97	11729	0.9396662	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07A.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : RL VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:47:53 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.32	117	9738	0.8940392	ppb		94
41)	1,1-DICHLOROPROPENE	4.41	75	10815	0.8867945	ppb		97
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	32526	0.9511111	ppb		94
43)	n-Heptane	4.49	71	7640	0.8939160	ppb	#	91
44)	BENZENE	4.56	78	34505	0.9559190	ppb	#	58
45)	TERT-AMYL METHYL ETHER	4.58	73	27171	0.9869007	ppb	#	75
46)	1,2-DICHLOROETHANE	4.67	62	11405	0.9493073	ppb		97
47)	T-AMYL ALCOHOL	4.66	59	5401	4.6109118	ppb		96
49)	TRICHLOROETHENE	4.89	130	7291	0.9717500	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	32737	1.1137272	ppb	#	69
51)	1,2-DICHLOROPROPANE	5.20	62	6357	0.9876684	ppb		99
52)	DIBROMOMETHANE	5.15	93	4427	0.9870510	ppb		96
53)	BROMODICHLOROMETHANE	5.23	83	11259	0.9891401	ppb	#	62
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	26316	4.6157005	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.61	75	13362	0.9703572	ppb	#	98
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	44418	4.7708327	ppb		98
59)	TOLUENE	5.76	91	34876	0.9722569	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	12294	0.9597718	ppb	#	97
62)	1,1,2-TRICHLOROETHANE	6.12	97	6599	1.0199243	ppb		94
63)	TETRACHLOROETHENE	6.02	164	5026	0.9318971	ppb		96
64)	1,3-DICHLOROPROPANE	6.31	76	12219	0.9660166	ppb		97
65)	2-HEXANONE	6.52	58	11384	3.3471781	ppb		93
66)	CHLORODIBROMOMETHANE	6.25	129	6037	0.9192692	ppb		98
67)	1,2-DIBROMOETHANE	6.44	107	6388	0.9757481	ppb		97
68)	CHLOROBENZENE	6.77	112	18963	0.9437406	ppb		95
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	5727	0.9228352	ppb	#	100
70)	ETHYLBENZENE	6.77	106	10800	0.9099772	ppb		91
71)	M&P-XYLENE	6.86	106	27263	1.8594236	ppb		90
72)	O-XYLENE	7.17	106	13627	0.9897999	ppb		99
73)	STYRENE	7.21	104	20871	0.9208039	ppb		92
74)	BROMOFORM	7.26	173	3991	0.9698496	ppb		92
75)	ISOPROPYLBENZENE	7.38	105	36907	0.9660248	ppb		98
77)	BROMOBENZENE	7.71	77	17394	0.9972292	ppb		94
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	9305	0.9883272	ppb	#	94
79)	1,2,3-TRICHLOROPROPANE	7.86	110	2276	0.8646272	ppb	#	56
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	2430	0.7349456	ppb	#	73
81)	N-PROPYLBENZENE	7.69	91	44165	0.9557189	ppb		98
82)	4-ETHYLTOLUENE	7.77	105	34220	0.9296868	ppb		98
83)	2-CHLOROTOLUENE	7.83	91	27979	0.9189078	ppb		98
84)	4-CHLOROTOLUENE	7.96	91	27572	1.0030238	ppb		96
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	32395	1.0047788	ppb		100
86)	TERT-BUTYLBENZENE	8.08	119	24618	0.9353791	ppb		92
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	29391	0.9450302	ppb		97
88)	SEC-BUTYLBENZENE	8.22	105	40242	1.0011982	ppb		99
89)	1,3-DICHLOROBENZENE	8.42	146	13713	0.9532671	ppb		99
90)	P-ISOPROPYLTOLUENE	8.31	119	29224	0.9064792	ppb		97
91)	DICYCLOPENTADIENE	8.33	66	41255	0.9822424	ppb		97
93)	1,4-DICHLOROBENZENE	8.48	146	14940	0.9806357	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.48	105	32243	0.9886283	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	12435	0.9487816	ppb		99
96)	N-BUTYLBENZENE	8.65	91	27632	0.8930993	ppb		97
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.47	157	1054	0.6596726	ppb	#	86
98)	1,2,4-TRICHLOROBENZENE	10.03	180	7069	0.9214072	ppb	#	90
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	2976	0.8740043	ppb		93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07A.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : RL VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:47:53 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

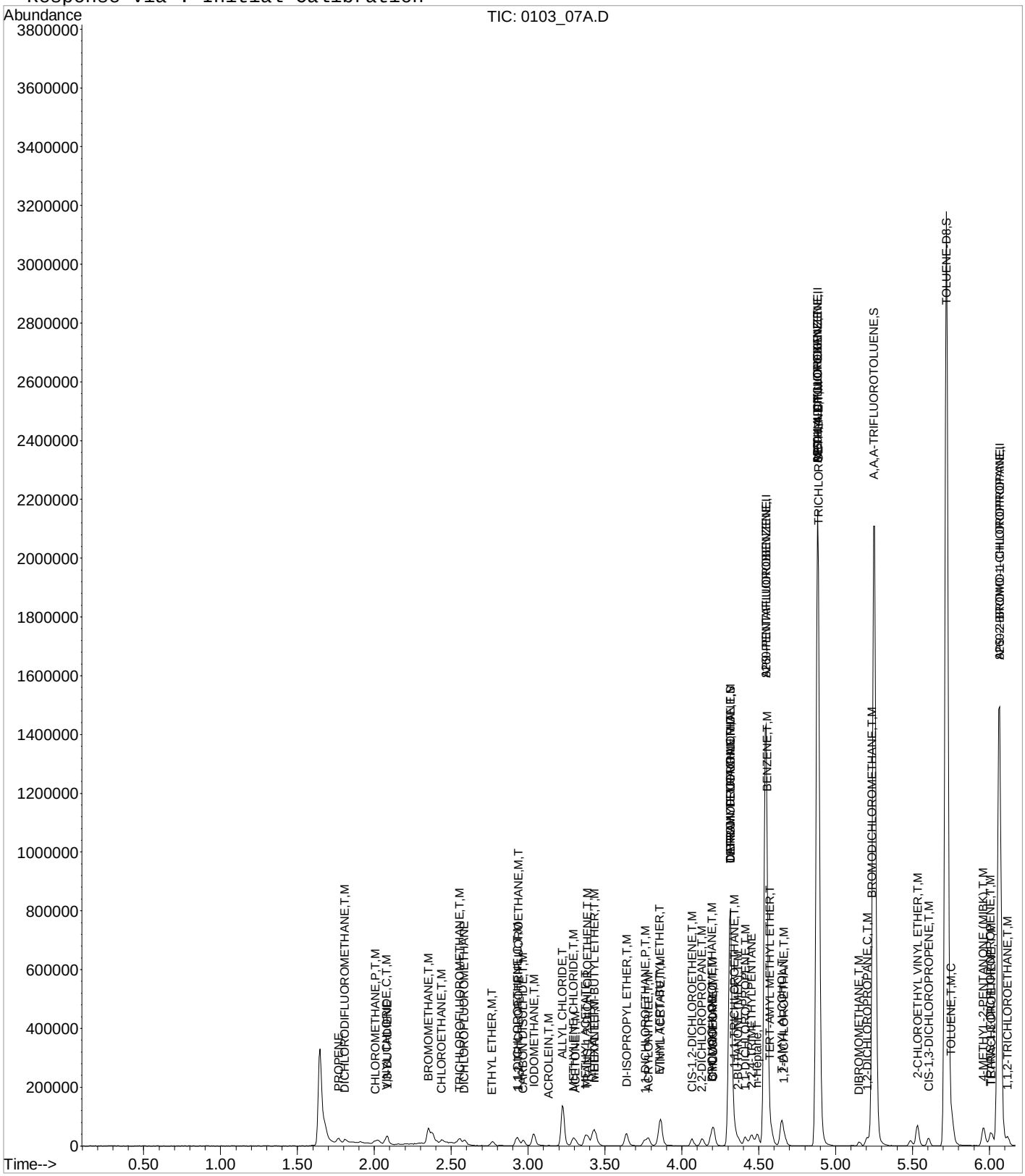
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100)	NAPHTHALENE	10.29	128	20163	0.8831568	ppb	96
101)	1,2,3-TRICHLOROBENZENE	10.45	180	6469	0.9136170	ppb	93
102)	1-METHYLNAPHTHALENE	11.17	142	9482	0.9236459	ppb	95
103)	2-METHYLNAPHTHALENE	11.32	142	9950	1.0192005	ppb	98

(#) = qualifier out of range (m) = manual integration
0103_07A.D V808A03Q.M Wed Jan 04 10:47:57 2017 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07A.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : RL VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:47 2017 Quant Results File: V808A03Q.RES

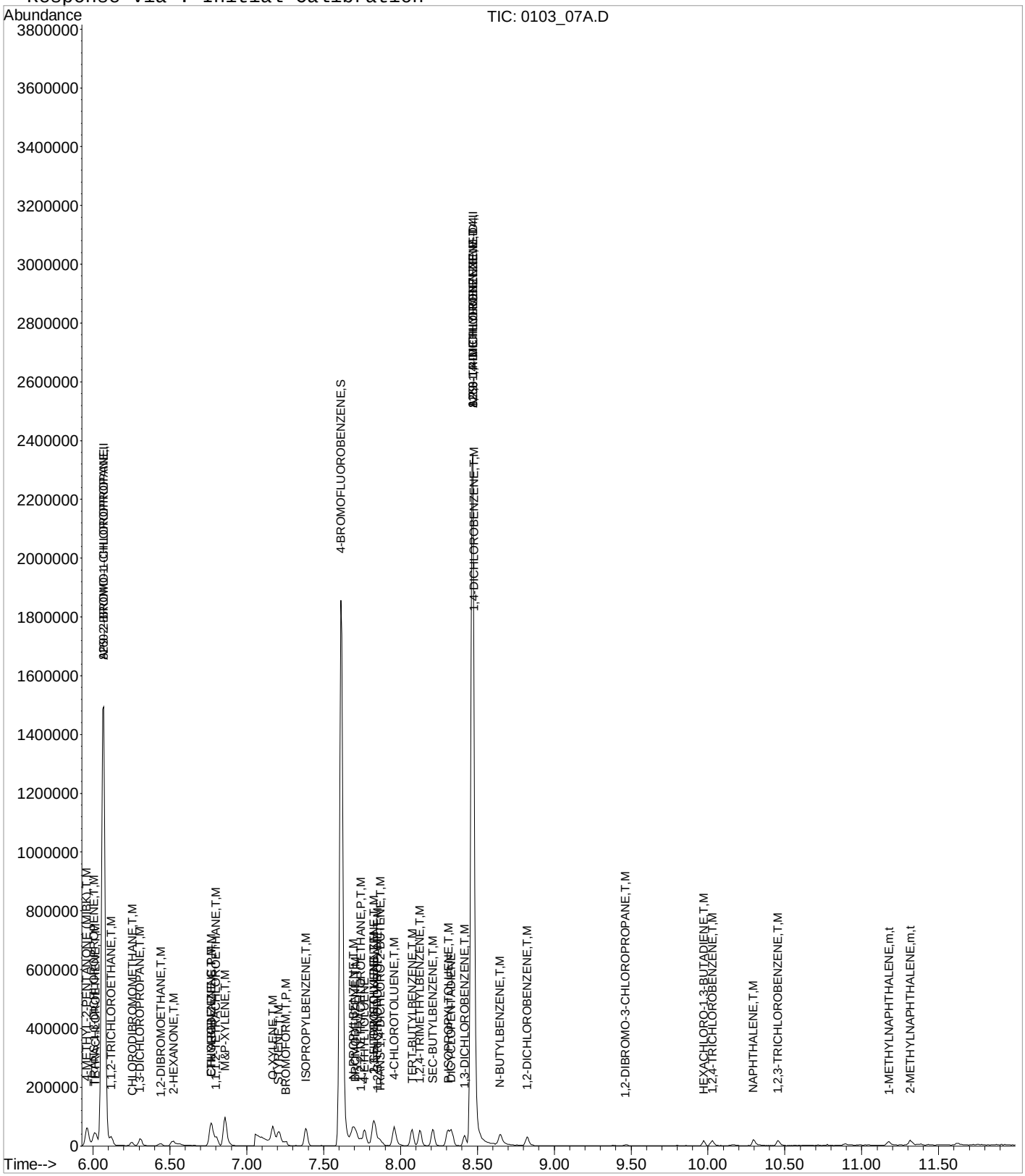
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07A.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : RL VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:47 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10A.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : RL VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:00 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	718743	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1341472	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	251702	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	554848	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	721078	40.00	ppb		-0.01
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1341472	40.00	ppb		-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	251702	40.00	ppb		-0.02
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	554848	40.00	ppb		-0.01
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	425029	43.8589489	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 109.65%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	729249	43.9312656	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.83%				
58) TOLUENE-D8	5.72	98	1848816	44.5456778	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.36%				
76) 4-BROMOFLUOROBENZENE	7.61	95	671848	43.5050837	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.76%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	70587	10.2239153	ppb		97
5) DICHLORODIFLUOROMETHANE	1.81	85	111445	10.5573532	ppb		97
6) CHLOROMETHANE	2.01	50	135303	9.5332665	ppb		99
7) VINYL CHLORIDE	2.07	62	126253	10.8261808	ppb		99
8) 1,3-BUTADIENE	2.09	39	91509	9.8042431	ppb		99
9) BROMOMETHANE	2.35	94	85603	9.2665857	ppb		99
10) CHLOROETHANE	2.44	64	78545	10.3675243	ppb		97
11) TRICHLOROFLUOROMETHANE	2.55	101	125849	10.6943494	ppb		98
12) DICHLOROFLUOROMETHANE	2.59	67	179657	10.2682543	ug/l		99
13) ETHYL ETHER	2.77	59	75931	10.3978729	ppb		99
14) ACROLEIN	3.13	56	5071	45.0895782	ppb	#	81
15) 1,1-DICHLOROETHENE	2.93	96	68831	10.4210436	ppb		96
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	70378	10.3567105	ppb		99
17) ACETONE	3.31	43	139939	44.7216755	ppb		99
18) IODOMETHANE	3.03	142	462162	49.4088489	ppb		100
19) CARBON DISULFIDE	2.97	76	243817	10.2484364	ppb		98
20) ALLYL CHLORIDE	3.22	76	250795	53.2591753	ppb		98
21) METHYLENE CHLORIDE	3.30	84	81738	10.2175442	ppb		99
22) METHYL ACETATE	3.37	43	355134	47.4783263	ppb	#	100
23) ACRYLONITRILE	3.78	53	176993	49.9928523	ppb		98
24) n-HEXANE	3.42	56	88965	10.2664790	ppb		98
25) TRANS-1,2-DICHLOROETHENE	3.39	96	76547	10.5231255	ppb		98
26) METHYL TERT-BUTYL ETHER	3.44	73	256981	9.9982106	ppb		98
27) 1,1-DICHLOROETHANE	3.76	63	163266	10.2179899	ppb		98
28) VINYL ACETATE	3.86	43	900197	48.1670520	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	332467	10.2932609	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	282836	10.1093025	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	136370	10.4776874	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.07	96	83900	10.3515185	ppb		99
33) 2-BUTANONE (MEK)	4.37	43	258345	50.7134405	ppb	#	88
34) BROMOCHLOROMETHANE	4.18	130	43091	11.3287359	ppb		97
35) TETRAHYDROFURAN	4.32	42	51792	10.1975796	ppb		97
36) CHLOROFORM	4.21	83	152324	10.2082378	ppb		98
37) CYCLOHEXANE	4.20	84	144252	10.3434557	ppb		99
39) 1,1,1-TRICHLOROETHANE	4.35	97	126208	10.3791868	ppb		99

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

Data File : C:\MSDCHEM\1\DATA\010317\0103_10A.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : RL VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:00 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	106912	10.0757436	ppb		95
41)	1,1-DICHLOROPROPENE	4.41	75	121517	10.2281562	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	335584	10.0731585	ppb		94
43)	n-Heptane	4.49	71	86163	10.3487531	ppb	#	99
44)	BENZENE	4.56	78	357117	10.1557831	ppb		97
45)	TERT-AMYL METHYL ETHER	4.58	73	260689	9.7197338	ppb		96
46)	1,2-DICHLOROETHANE	4.67	62	119324	10.1953743	ppb		99
47)	T-AMYL ALCOHOL	4.66	59	56430	49.4523041	ppb		98
49)	TRICHLOROETHENE	4.89	130	78037	10.1710537	ppb	#	99
50)	METHYL CYCLOHEXANE	4.90	83	187915	10.0227554	ppb		95
51)	1,2-DICHLOROPROPANE	5.20	62	66881	10.1615426	ppb		98
52)	DIBROMOMETHANE	5.15	93	45941	10.0167868	ppb		100
53)	BROMODICHLOROMETHANE	5.22	83	112454	9.6611944	ppb	#	97
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	284540	48.8044030	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	138462	9.8330605	ppb		98
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	466728	49.0226714	ppb		100
59)	TOLUENE	5.75	91	366520	9.9919438	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	129161	9.8606176	ppb		100
62)	1,1,2-TRICHLOROETHANE	6.12	97	68317	10.1371332	ppb		98
63)	TETRACHLOROETHENE	6.02	164	55971	9.9633431	ppb		98
64)	1,3-DICHLOROPROPANE	6.31	76	133288	10.1166451	ppb		99
65)	2-HEXANONE	6.51	58	165926	46.8376307	ppb		96
66)	CHLORODIBROMOMETHANE	6.25	129	67536	9.8730970	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	66873	9.8066381	ppb		99
68)	CHLOROBENZENE	6.77	112	207563	9.9172681	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	65540	10.1391121	ppb	#	98
70)	ETHYLBENZENE	6.76	106	123073	9.9555685	ppb		99
71)	M&P-XYLENE	6.85	106	305814	20.0243576	ppb		100
72)	O-XYLENE	7.16	106	144724	10.0921623	ppb		98
73)	STYRENE	7.20	104	242142	10.2562959	ppb		99
74)	BROMOFORM	7.25	173	41799	9.7518068	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	401835	10.0977321	ppb		99
77)	BROMOBENZENE	7.71	77	176005	9.6876196	ppb		98
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	96102	9.7997126	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.86	110	26853	9.7936816	ppb		96
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	30570	8.8764823	ppb	#	91
81)	N-PROPYLBENZENE	7.69	91	483616	10.0472946	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	386706	10.0863522	ppb		100
83)	2-CHLOROTOLUENE	7.83	91	310575	9.7927076	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	280836	9.8082674	ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	329451	9.8102448	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	273324	9.9703220	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	322633	9.9594794	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	428132	10.2262110	ppb		99
89)	1,3-DICHLOROBENZENE	8.42	146	151326	10.0993225	ppb		100
90)	P-ISOPROPYLTOLUENE	8.31	119	351256	10.4601637	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	438515	10.0235851	ppb		99
93)	1,4-DICHLOROBENZENE	8.48	146	158316	10.2909214	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	341559	10.3713583	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	143814	10.8666066	ppb		99
96)	N-BUTYLBENZENE	8.64	91	340334	10.8934418	ppb		100
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	14714	9.1199171	ppb		95
98)	1,2,4-TRICHLOROBENZENE	10.02	180	80517	10.3933014	ppb		98
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	35235	10.2477202	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10A.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : RL VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:00 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

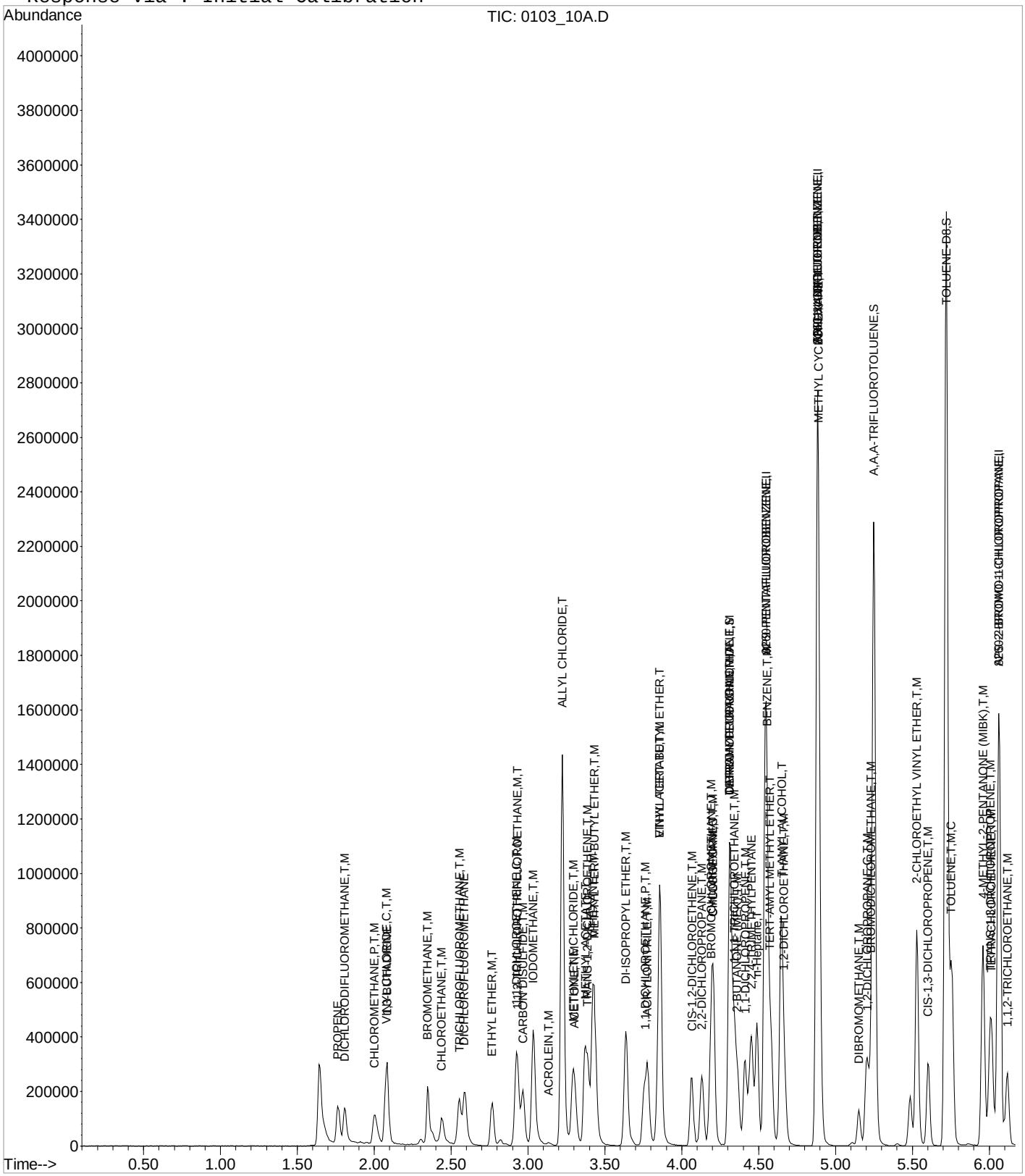
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100)	NAPHTHALENE	10.30	128	229933	9.9736998	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.45	180	76067	10.6388739	ppb	99
102)	1-METHYLNAPHTHALENE	11.17	142	109422	10.5555905	ppb	99
103)	2-METHYLNAPHTHALENE	11.31	142	99349	10.0779538	ppb	97

(#) = qualifier out of range (m) = manual integration
0103_10A.D V808A03Q.M Wed Jan 04 10:48:04 2017 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10A.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : RL VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:48 2017 Quant Results File: V808A03Q.RES

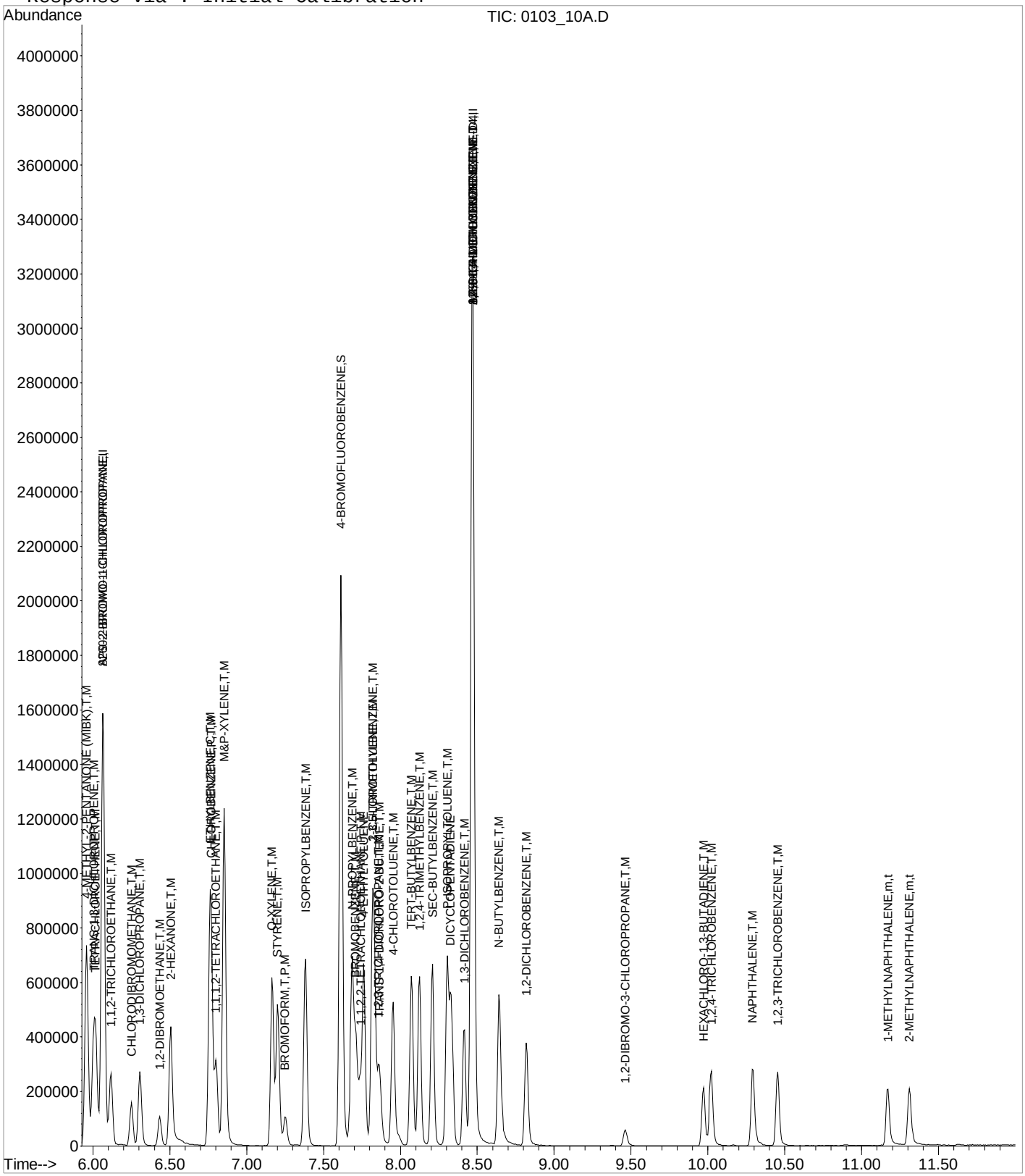
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10A.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : RL VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:48 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20A.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : RL VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:55:09 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	715453	40.00 ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1312745	40.00 ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	247853	40.00 ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	547255	40.00 ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.55	168	716794	40.00 ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1312745	40.00 ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	247853	40.00 ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	547255	40.00 ppb	0.00
System Monitoring Compounds					
38) DIBROMOFLUOROMETHANE	4.31	111	393935	40.8372740 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.09%		
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	672275	41.3852967 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.46%		
58) TOLUENE-D8	5.72	98	1699035	41.8326566 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.58%		
76) 4-BROMOFLUOROBENZENE	7.61	95	622320	40.9237314 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.31%		
Target Compounds					Qvalue
8) 1,3-BUTADIENE	2.10	39	1369	0.1473487 ppb #	5
9) BROMOMETHANE	2.35	94	3003	0.3265718 ppb #	78
17) ACETONE	3.32	43	1328	0.4263536 ppb #	47
18) IODOMETHANE	3.04	142	9281	0.9967765 ppb #	85
20) ALLYL CHLORIDE	3.23	76	18768	4.0039263 ppb	95
22) METHYL ACETATE	3.37	43	157534	21.1577737 ppb #	98
23) ACRYLONITRILE	3.74	53	66164	18.7744013 ppb #	51
28) VINYL ACETATE	3.86	43	4834	0.2598434 ppb #	77
30) ETHYL TERT-BUTYL ETHER	3.85	59	20999	0.7540109 ppb	95
33) 2-BUTANONE (MEK)	4.45	43	16119	3.1787299 ppb #	58
35) TETRAHYDROFURAN	4.32	42	884	0.1748555 ppb #	66
37) CYCLOHEXANE	4.20	84	9006	0.6487364 ppb #	80
42) 2,2,4-TRIMETHYLPENTANE	4.45	57	57969	1.7480456 ppb #	1
45) TERT-AMYL METHYL ETHER	4.58	73	18566	0.6954126 ppb #	1
46) 1,2-DICHLOROETHANE	4.56	62	9826	0.8434215 ppb #	1
47) T-AMYL ALCOHOL	4.66	59	3709	3.2653206 ppb #	74
50) METHYL CYCLOHEXANE	4.89	83	28491	0.8620927 ppb #	66
51) 1,2-DICHLOROPROPANE	5.24	62	16183	2.5125641 ppb #	58
57) 4-METHYL-2-PENTANONE (MIBK	5.90	43	13893	1.4911811 ppb #	38
103) 2-METHYLNAPHTHALENE	11.31	142	1409	0.1449119 ppb #	71
105) ETHANOL	2.86	45	9754	108.1679858 ppb #	98
106) BROMOETHANE	3.10	108	3272	0.7558015 ppb	97
107) 2-PROPANOL	3.20	45	2721	4.8631984 ppb	94
108) ACETONITRILE	3.60	41	69216	51.3523845 ppb	98
109) TERT-BUTYL ALCOHOL	3.47	59	7194	5.2718844 ppb #	90
110) CHLOROPRENE	3.74	53	66164	4.8431104 ppb	97
111) PROPIONITRILE	4.55	54	81886	49.8871049 ppb #	85
112) ETHYL ACETATE	4.24	43	106682	10.3222076 ppb	99
113) METHACRYLONITRILE	4.56	67	182231	49.2689897 ppb	100
114) TERT-BUTYL FORMATE	4.45	59	71411	9.4833078 ppb	96
115) ISOBUTANOL	4.59	43	57944	107.2258925 ppb #	94
117) N-BUTANOL	5.00	56	50581	200.9069436 ppb	95
118) 2-NITROPROPANE	5.90	43	13893	4.6662711 ppb	90
119) METHYL METHACRYLATE	5.26	41	51321	5.0002012 ppb #	1
120) 1,4-DIOXANE	5.33	88	7327	104.7899020 ppb #	90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20A.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : RL VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:55:09 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

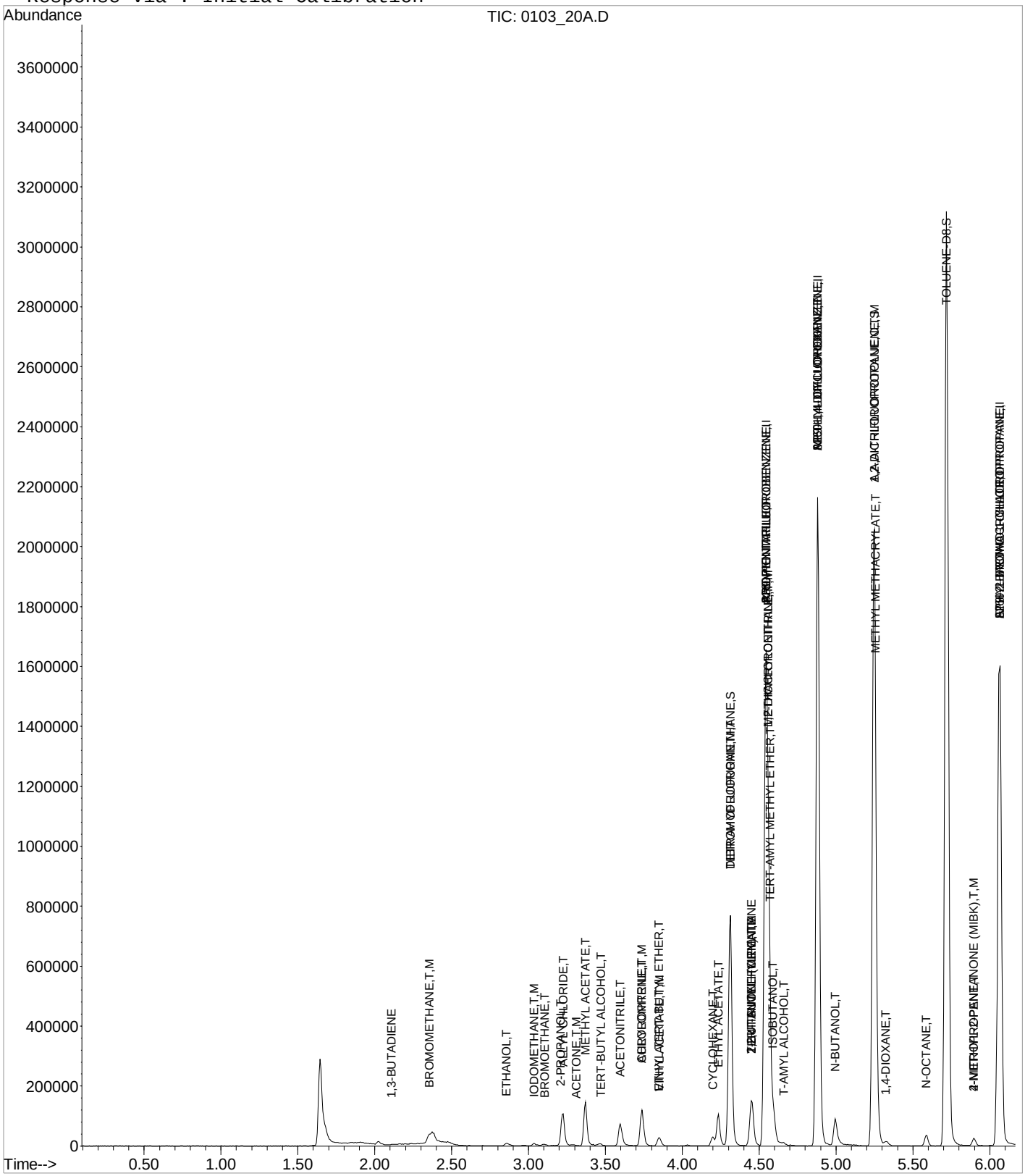
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
121)	N-OCTANE	5.59	85	6301	0.9658186	ppb		97
122)	3,3-DIMETHYL-1-BUTANOL	6.47	57	839	10.4885209	ppb	#	1
124)	ETHYL METHACRYLATE	6.06	69	42681	4.2380053	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.64	53	16453	4.3945492	ppb	#	97
126)	CYCLOHEXANONE	7.93	55	2242	7.9672088	ppb	#	60
127)	PENTACHLOROETHANE	8.11	117	20040	4.6483680	ppb		94
128)	HEXACHLOROETHANE	8.80	117	4641	0.8756033	ppb		97

(#) = qualifier out of range (m) = manual integration
0103_20A.D V808A03Q.M Wed Jan 04 10:55:28 2017 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20A.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : RL VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:55 2017 Quant Results File: V808A03Q.RES

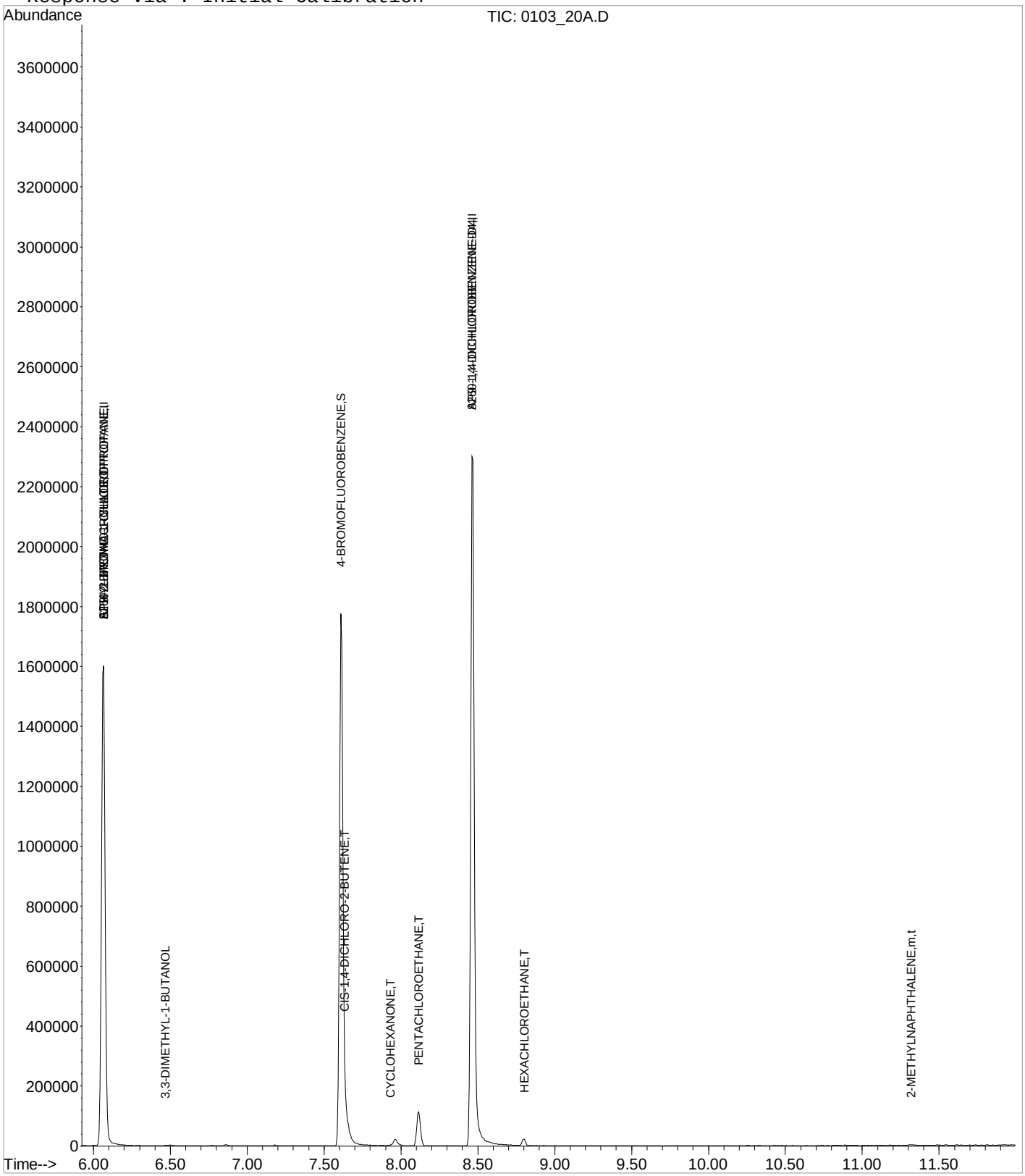
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20A.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : RL VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:55 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_17.D Vial: 17
Acq On : 3 Jan 2017 5:12 pm Operator: 605
Sample : SSCV VMS 25 ppb 16L29039 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	717066	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1340198	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	251213	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	572518	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.55	168	718855	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1340198	40.00	ppb		-0.01
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	251213	40.00	ppb		-0.01
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	572518	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	402272	41.6077239	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.02%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	694497	41.8775141	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.69%				
58) TOLUENE-D8	5.72	98	1741702	42.0047474	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.01%				
76) 4-BROMOFLUOROBENZENE	7.61	95	643546	41.7535236	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.38%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	183212	26.5987318	ppb		99
5) DICHLORODIFLUOROMETHANE	1.81	85	268574	25.5019228	ppb		99
6) CHLOROMETHANE	2.00	50	390925	27.6084644	ppb		99
7) VINYL CHLORIDE	2.07	62	351122	30.1790879	ppb		99
8) 1,3-BUTADIENE	2.08	39	284249	30.5255645	ppb		100
9) BROMOMETHANE	2.34	94	231594	25.1288471	ppb		99
10) CHLOROETHANE	2.43	64	230427	30.4862764	ppb		97
11) TRICHLOROFLUOROMETHANE	2.55	101	317479	27.0417068	ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	480024	27.4998243	ug/l		99
13) ETHYL ETHER	2.76	59	195949	26.8957050	ppb		99
14) ACROLEIN	3.14	56	44179	277.9670044	ppb		98
15) 1,1-DICHLOROETHENE	2.92	96	188885	28.6641522	ppb		98
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	185930	27.4251418	ppb		97
17) ACETONE	3.31	43	424602	136.0115633	ppb		100
18) IODOMETHANE	3.04	142	1450811	155.4661482	ppb		99
19) CARBON DISULFIDE	2.97	76	688450	29.0055114	ppb		100
20) ALLYL CHLORIDE	3.22	76	728563	155.0804929	ppb		99
21) METHYLENE CHLORIDE	3.29	84	224141	28.0839583	ppb		99
22) METHYL ACETATE	3.37	43	1005781	134.7786407	ppb	#	99
23) ACRYLONITRILE	3.78	53	492300	139.3786193	ppb		98
24) n-HEXANE	3.42	56	217525	25.1608908	ppb		98
25) TRANS-1,2-DICHLOROETHENE	3.39	96	223352	30.7766197	ppb		99
26) METHYL TERT-BUTYL ETHER	3.43	73	667706	26.0388047	ppb		97
27) 1,1-DICHLOROETHANE	3.76	63	476214	29.8735181	ppb		99
28) VINYL ACETATE	3.86	43	2135343	114.5235095	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	870757	27.0219016	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	771524	27.6407893	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	370621	28.5424413	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.07	96	239295	29.5930837	ppb		99
33) 2-BUTANONE (MEK)	4.36	43	690289	135.8214818	ppb		92
34) BROMOCHLOROMETHANE	4.19	130	95202	25.0873880	ppb		97
35) TETRAHYDROFURAN	4.32	42	129051	25.4689061	ppb		94
36) CHLOROFORM	4.21	83	428857	28.8077569	ppb		100
37) CYCLOHEXANE	4.20	84	377018	27.0969494	ppb		100
39) 1,1,1-TRICHLOROETHANE	4.35	97	355222	29.2813298	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_17.D Vial: 17
Acq On : 3 Jan 2017 5:12 pm Operator: 605
Sample : SSCV VMS 25 ppb 16L29039 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.32	117	301644	28.4944213	ppb		97
41)	1,1-DICHLOROPROPENE	4.41	75	356720	30.0955489	ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	872153	26.2404693	ppb		98
43)	n-Heptane	4.49	71	212450	25.5763430	ppb	#	99
44)	BENZENE	4.56	78	1016906	28.9866615	ppb		100
45)	TERT-AMYL METHYL ETHER	4.58	73	697238	26.0571678	ppb		99
46)	1,2-DICHLOROETHANE	4.67	62	333835	28.5904989	ppb		100
47)	T-AMYL ALCOHOL	4.66	59	157143	138.0339825	ppb		97
49)	TRICHLOROETHENE	4.89	130	231802	30.2409344	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	463130	25.9243702	ppb		99
51)	1,2-DICHLOROPROPANE	5.20	62	187486	28.5127020	ppb		99
52)	DIBROMOMETHANE	5.15	93	128152	27.9682968	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	320753	27.5828593	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	853412	146.5166800	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	413263	29.3763128	ppb		100
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	1291908	135.8242615	ppb		99
59)	TOLUENE	5.76	91	1051901	28.7038279	ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	359975	27.5079170	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.12	97	179821	26.7344546	ppb		98
63)	TETRACHLOROETHENE	6.02	164	155958	27.8159715	ppb		99
64)	1,3-DICHLOROPROPANE	6.31	76	362379	27.5583394	ppb		99
65)	2-HEXANONE	6.50	58	477376	135.0161165	ppb		97
66)	CHLORODIBROMOMETHANE	6.25	129	198239	29.0369987	ppb		100
67)	1,2-DIBROMOETHANE	6.43	107	180932	26.5845480	ppb		99
68)	CHLOROBENZENE	6.77	112	613991	29.3933223	ppb		100
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	189811	29.4211349	ppb	#	99
70)	ETHYLBENZENE	6.76	106	355767	28.8345711	ppb		97
71)	M&P-XYLENE	6.85	106	866737	56.8634392	ppb		97
72)	O-XYLENE	7.17	106	412519	28.8225354	ppb		100
73)	STYRENE	7.20	104	716573	30.4106296	ppb		99
74)	BROMOFORM	7.25	173	116931	27.3333848	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	1121480	28.2365852	ppb		99
77)	BROMOBENZENE	7.71	77	503518	27.7684494	ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	249328	25.4739635	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.85	110	76105	27.8106356	ppb		96
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	91602	26.6498620	ppb		97
81)	N-PROPYLBENZENE	7.68	91	1409617	29.3423004	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	1103304	28.8332081	ppb		99
83)	2-CHLOROTOLUENE	7.83	91	902755	28.5200809	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	833313	29.1603165	ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	947233	28.2611864	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	772133	28.2207197	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	942626	29.1549177	ppb		98
88)	SEC-BUTYLBENZENE	8.21	105	1195489	28.6106155	ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	419879	28.0767863	ppb		97
90)	P-ISOPROPYLTOLUENE	8.30	119	1007067	30.0481439	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	1279855	29.3118990	ppb		99
93)	1,4-DICHLOROBENZENE	8.48	146	444878	28.0256222	ppb		88
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	949319	27.9361761	ppb		100
95)	1,2-DICHLOROBENZENE	8.82	146	391827	28.6927397	ppb		99
96)	N-BUTYLBENZENE	8.64	91	979353	30.3797305	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	45198	27.1496499	ppb		98
98)	1,2,4-TRICHLOROBENZENE	10.02	180	231831	29.0016245	ppb		100
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	105506	29.7382234	ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_17.D Vial: 17
Acq On : 3 Jan 2017 5:12 pm Operator: 605
Sample : SSCV VMS 25 ppb 16L29039 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:48:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

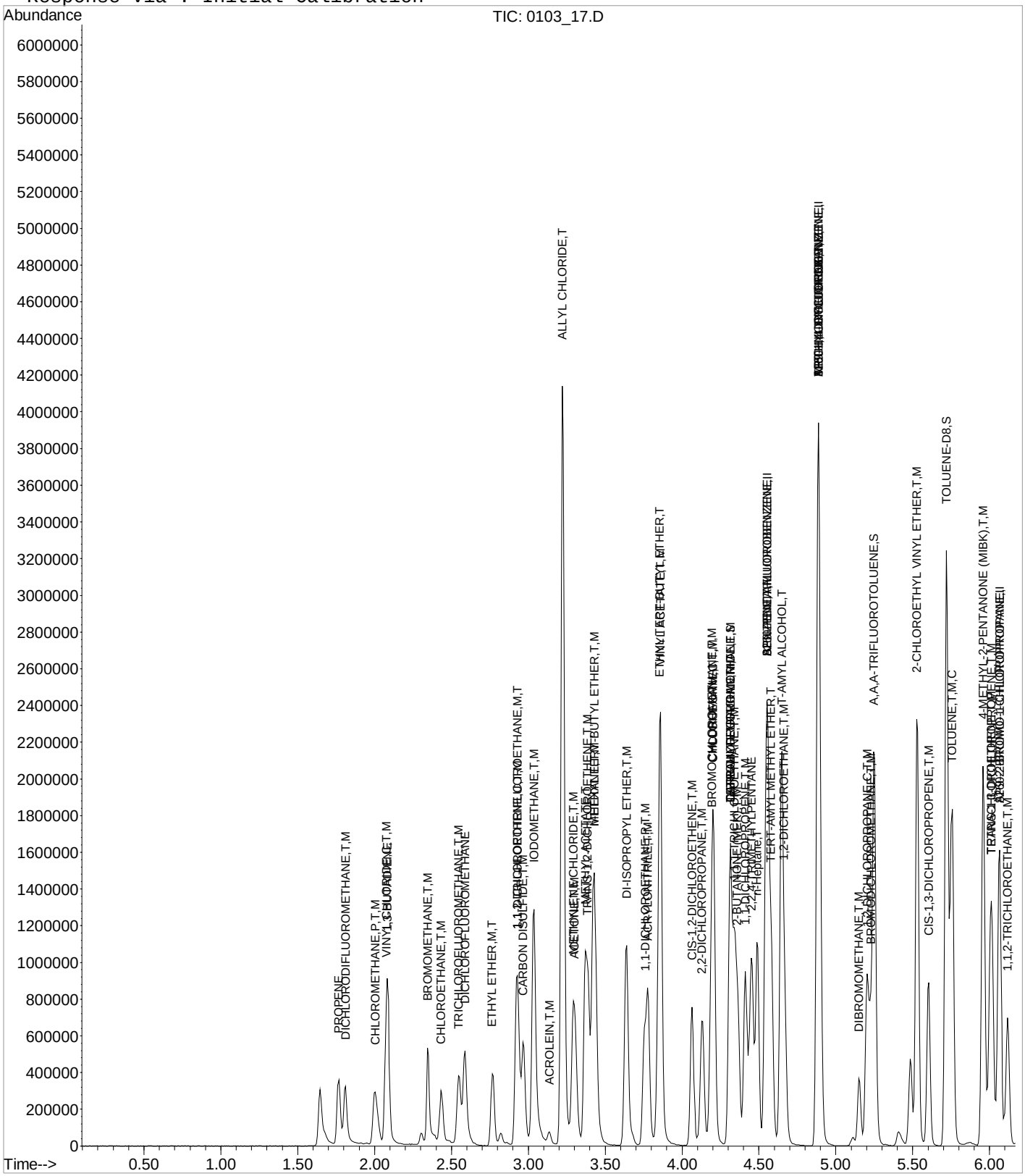
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100)	NAPHTHALENE	10.29	128	646467	27.1760432	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.45	180	216337	29.3234494	ppb	99
102)	1-METHYLNAPHTHALENE	11.17	142	301309	28.1692231	ppb	100
103)	2-METHYLNAPHTHALENE	11.31	142	281290	27.6533682	ppb	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_17.D Vial: 17
Acq On : 3 Jan 2017 5:12 pm Operator: 605
Sample : SSCV VMS 25 ppb 16L29039 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:48 2017 Quant Results File: V808A03Q.RES

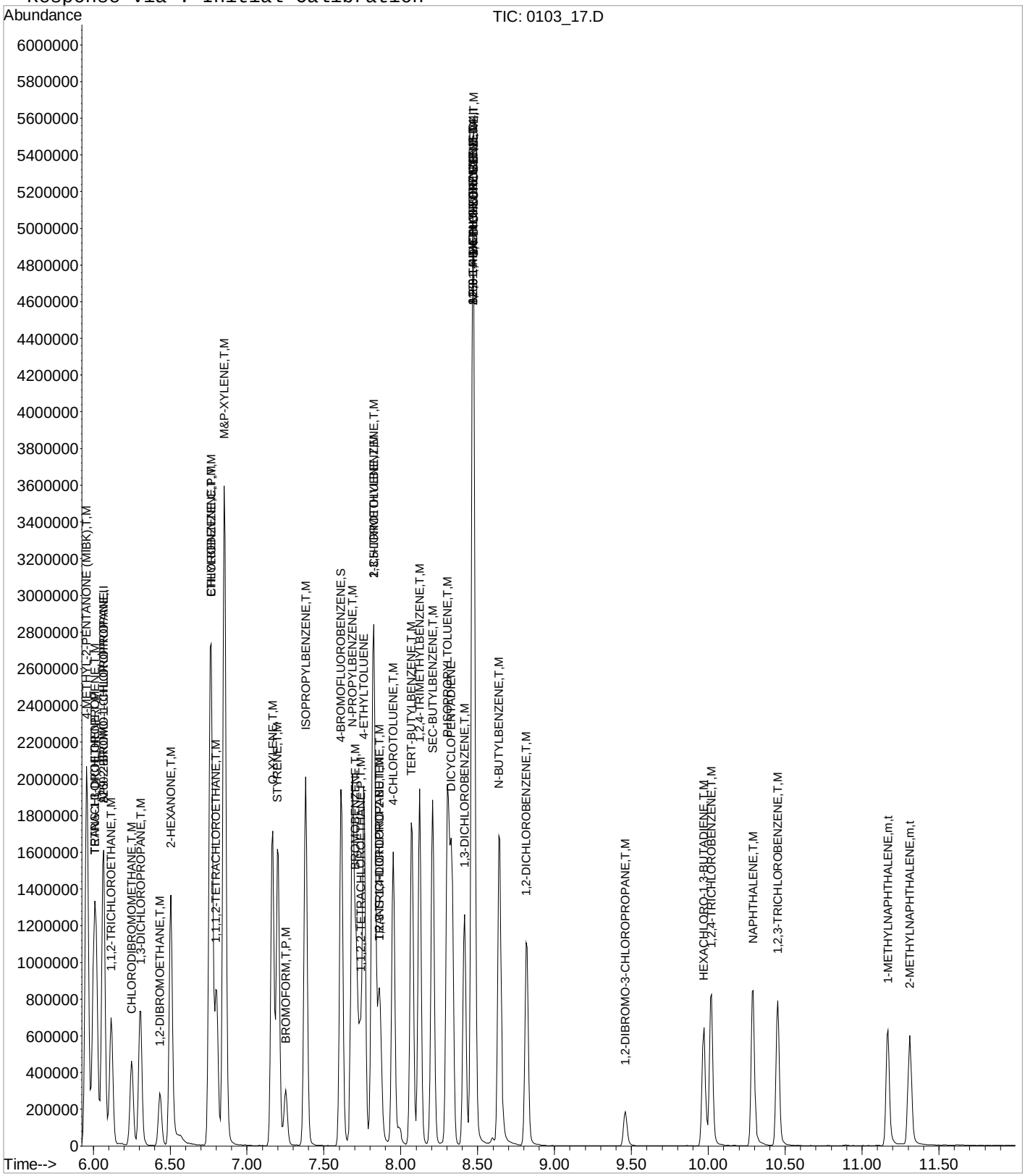
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_17.D Vial: 17
Acq On : 3 Jan 2017 5:12 pm Operator: 605
Sample : SSCV VMS 25 ppb 16L29039 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:48 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:47:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_30.D Vial: 30
Acq On : 3 Jan 2017 10:09 pm Operator: 605
Sample : SSCV VMS 10a ppb 16L17335 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:55:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	700398	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1303944	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	245457	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	542045	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	701862	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1303944	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	245457	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	542045	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	387036	40.9845102	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.46%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	665313	41.2331538	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.08%				
58) TOLUENE-D8	5.72	98	1689092	41.8685439	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.67%				
76) 4-BROMOFLUOROBENZENE	7.61	95	609556	40.4756503	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.19%				
Target Compounds						Qvalue	
9) BROMOMETHANE	2.34	94	3290	0.3654731	ppb	#	79
17) ACETONE	3.31	43	4795	1.5725217	ppb	#	74
18) IODOMETHANE	3.03	142	10916	1.1975751	ppb	#	92
20) ALLYL CHLORIDE	3.22	76	224812	48.9918437	ppb		98
21) METHYLENE CHLORIDE	3.29	84	5352	0.6865424	ppb		86
22) METHYL ACETATE	3.37	43	1802374	247.2730537	ppb	#	100
23) ACRYLONITRILE	3.73	53	759127	220.0366346	ppb	#	51
27) 1,1-DICHLOROETHANE	3.73	63	10356	0.6651054	ppb	#	43
28) VINYL ACETATE	3.85	43	28000	1.5374439	ppb	#	77
30) ETHYL TERT-BUTYL ETHER	3.84	59	231278	8.4830018	ppb		99
33) 2-BUTANONE (MEK)	4.44	43	175012	35.2549070	ppb	#	58
35) TETRAHYDROFURAN	4.30	42	1852	0.3742003	ppb	#	69
36) CHLOROFORM	4.20	83	6448	0.4434414	ppb	#	50
37) CYCLOHEXANE	4.19	84	105502	7.7630653	ppb		89
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	683510	21.0541652	ppb	#	1
45) TERT-AMYL METHYL ETHER	4.58	73	196655	7.5242876	ppb	#	1
46) 1,2-DICHLOROETHANE	4.56	62	67711	5.9369491	ppb	#	77
47) T-AMYL ALCOHOL	4.66	59	38740	34.8389316	ppb	#	80
50) METHYL CYCLOHEXANE	4.89	83	136631	7.2911963	ppb		95
51) 1,2-DICHLOROPROPANE	5.25	62	16729	2.6148666	ppb	#	59
53) BROMODICHLOROMETHANE	5.26	83	2280	0.2015178	ppb	#	1
57) 4-METHYL-2-PENTANONE (MIBK	5.89	43	154890	16.7370599	ppb	#	39
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	13484	1.0590443	ppb	#	1
62) 1,1,2-TRICHLOROETHANE	6.05	97	1758	0.2674955	ppb	#	1
63) TETRACHLOROETHENE	6.02	164	4088	0.7462153	ppb		97
65) 2-HEXANONE	6.47	58	1430	0.4139308	ppb	#	1
70) ETHYLBENZENE	6.75	106	2538	0.2105262	ppb		77
71) M&P-XYLENE	6.85	106	11487	0.7712925	ppb		93
72) O-XYLENE	7.17	106	2196	0.1570317	ppb		88
80) TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	8767	2.6104039	ppb	#	79
81) N-PROPYLBENZENE	7.64	91	27549	0.5869020	ppb	#	68
86) TERT-BUTYLBENZENE	8.11	119	221180	8.2734856	ppb	#	30
90) P-ISOPROPYLTOLUENE	8.11	119	221176	6.7540454	ppb	#	59
91) DICYCLOPENTADIENE	8.46	66	15376	0.3604070	ppb	#	83
105) ETHANOL	2.86	45	99324	1124.8971712	ppb		95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_30.D Vial: 30
Acq On : 3 Jan 2017 10:09 pm Operator: 605
Sample : SSCV VMS 10a ppb 16L17335 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:55:34 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

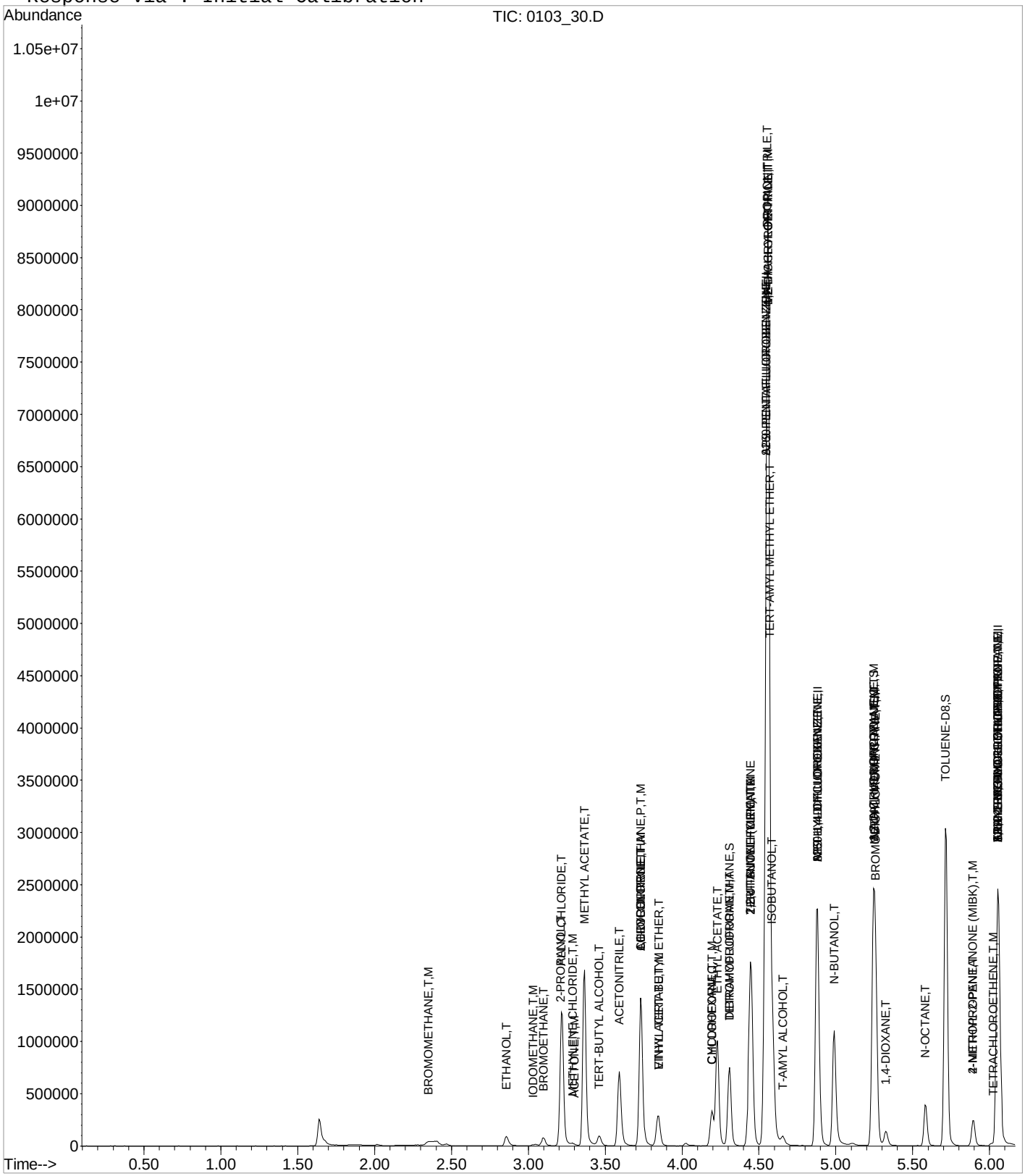
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
106)	BROMOETHANE	3.10	108	57683	13.6077059	ppb		99
107)	2-PROPANOL	3.20	45	29311	53.5015927	ppb		96
108)	ACETONITRILE	3.59	41	651671	493.7705039	ppb		100
109)	TERT-BUTYL ALCOHOL	3.46	59	94173	70.4797701	ppb		100
110)	CHLOROPRENE	3.73	53	759127	56.7491922	ppb		98
111)	PROPIONITRILE	4.55	54	749253	466.1758452	ppb		93
112)	ETHYL ACETATE	4.23	43	1016761	100.4715156	ppb		100
113)	METHACRYLONITRILE	4.56	67	2017768	557.1411811	ppb		98
114)	TERT-BUTYL FORMATE	4.44	59	867478	117.6510572	ppb		100
115)	ISOBUTANOL	4.59	43	548278	1036.1786728	ppb	#	99
117)	N-BUTANOL	4.99	56	538233	2152.2825749	ppb		95
118)	2-NITROPROPANE	5.89	43	154890	52.3743615	ppb		97
119)	METHYL METHACRYLATE	5.26	41	550266	53.9742336	ppb		99
120)	1,4-DIOXANE	5.33	88	76644	1103.5520890	ppb		96
121)	N-OCTANE	5.59	85	65969	10.1799912	ppb		99
122)	3,3-DIMETHYL-1-BUTANOL	6.46	57	41145	81.6208135	ppb		94
124)	ETHYL METHACRYLATE	6.05	69	549155	55.0605576	ppb		97
125)	CIS-1,4-DICHLORO-2-BUTENE	7.64	53	201720	54.4047661	ppb	#	97
126)	CYCLOHEXANONE	7.92	55	29052	104.2474361	ppb		91
127)	PENTACHLOROETHANE	8.11	117	229902	53.8473445	ppb		99
128)	HEXACHLOROETHANE	8.80	117	57623	10.9776765	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_30.D Vial: 30
Acq On : 3 Jan 2017 10:09 pm Operator: 605
Sample : SSCV VMS 10a ppb 16L17335 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:55 2017 Quant Results File: V808A03Q.RES

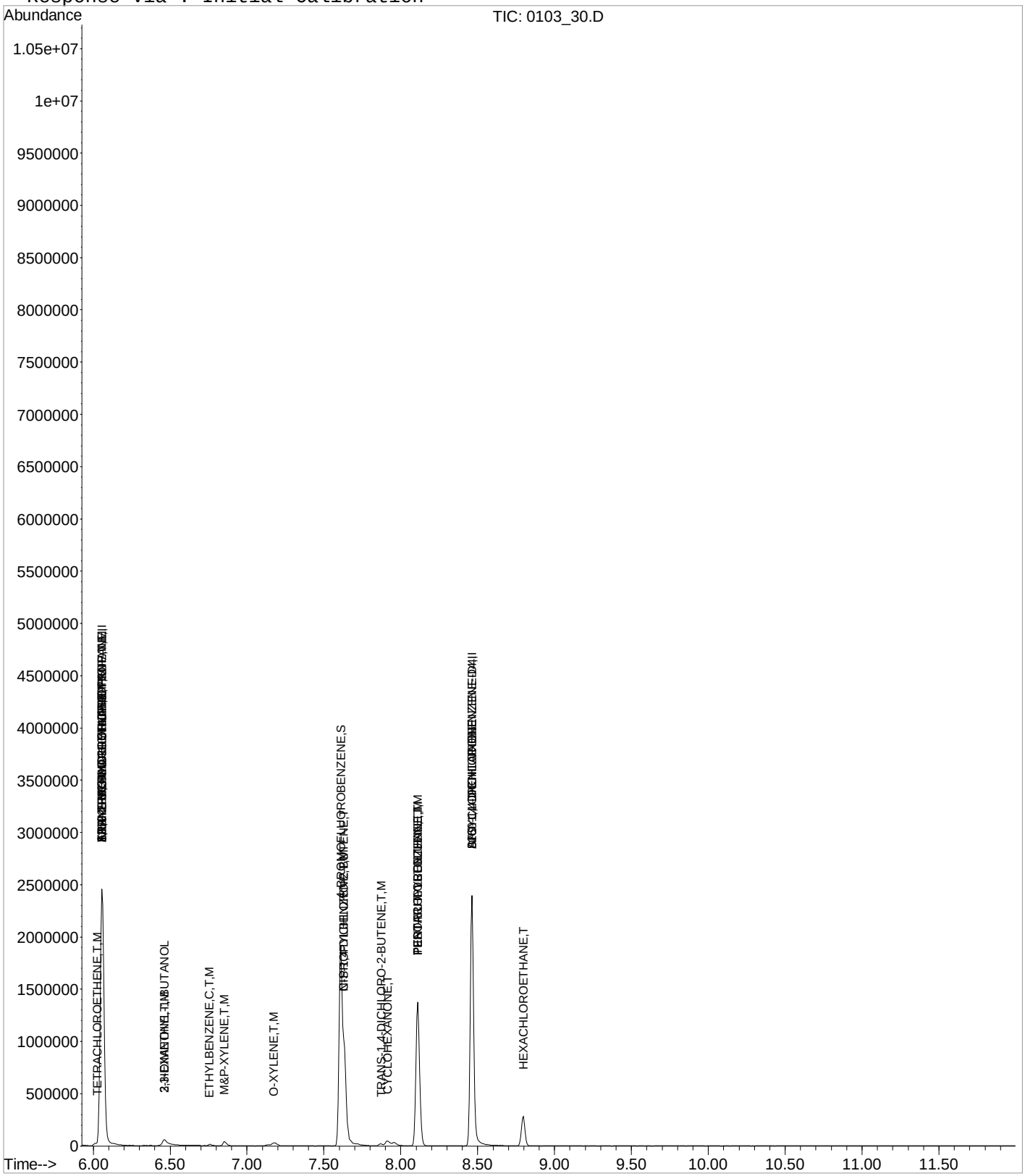
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_30.D Vial: 30
Acq On : 3 Jan 2017 10:09 pm Operator: 605
Sample : SSCV VMS 10a ppb 16L17335 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:55 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:04:40 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.53	168	727727	40.00	ppb	-0.01
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1379004	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.05	79	256885	40.00	ppb	-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	585998	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.53	168	729046	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1379004	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.05	79	258087	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	585998	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.30	111	397989	40.5616735	ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.40%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	707374	41.4536763	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.63%			
58) TOLUENE-D8	5.71	98	1794507	42.0603734	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.15%			
76) 4-BROMOFLUOROBENZENE	7.61	95	674459	42.7929726	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.98%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	5.74	TIC	293178074m	6.2567332	ppm	
4) PROPENE	1.76	41	2131	0.3048464	ppb #	89
6) CHLOROMETHANE	2.02	50	7368	0.5127304	ppb #	68
8) 1,3-BUTADIENE	2.08	39	6872	0.7271744	ppb #	10
9) BROMOMETHANE	2.34	94	1896	0.2027096	ppb #	94
12) DICHLOROFLUOROMETHANE	2.58	67	3342	0.1886531	ug/l #	1
14) ACROLEIN	3.13	56	192521	1144.2463008	ppb #	20
17) ACETONE	3.28	43	364560	115.0677059	ppb #	78
18) IODOMETHANE	3.03	142	5356	0.5655307	ppb #	91
21) METHYLENE CHLORIDE	3.28	84	1222	0.1508686	ppb #	1
22) METHYL ACETATE	3.42	43	1579369	208.5412136	ppb #	57
23) ACRYLONITRILE	3.75	53	6569	1.8325517	ppb #	32
24) n-HEXANE	3.42	56	1220203	139.0719571	ppb #	59
26) METHYL TERT-BUTYL ETHER	3.43	73	29832	1.1463277	ppb #	1
28) VINYL ACETATE	3.88	43	20390	1.0775436	ppb #	80
30) ETHYL TERT-BUTYL ETHER	3.84	59	16597	0.5858969	ppb #	72
31) 2,2-DICHLOROPROPANE	4.13	77	3460	0.2625596	ppb #	59
33) 2-BUTANONE (MEK)	4.38	43	205695	39.8797006	ppb #	64
35) TETRAHYDROFURAN	4.32	42	9960	1.9368630	ppb #	1
36) CHLOROFORM	4.19	83	56203	3.7200355	ppb #	1
37) CYCLOHEXANE	4.19	84	873500	61.8602779	ppb #	64
39) 1,1,1-TRICHLOROETHANE	4.39	97	3657	0.2970343	ppb #	22
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	3939107	116.7796958	ppb	94
43) n-Heptane	4.48	71	1084812	128.6846763	ppb #	96
44) BENZENE	4.55	78	1266808	35.5810557	ppb	100
45) TERT-AMYL METHYL ETHER	4.55	73	24774	0.9122900	ppb #	43
50) METHYL CYCLOHEXANE	4.89	83	1885714	105.0023605	ppb #	75
51) 1,2-DICHLOROPROPANE	5.24	62	19590	2.8953922	ppb	85
52) DIBROMOMETHANE	5.17	93	1843	0.3909034	ppb #	1
53) BROMODICHLOROMETHANE	5.25	83	12572	1.0506943	ppb #	1
55) 2-CHLOROETHYL VINYL ETHER	5.50	63	5305	0.8851506	ppb #	1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	167491	17.1135725	ppb #	44
59) TOLUENE	5.74	91	19536375	518.0985443	ppb #	65
60) TRANS-1,3-DICHLOROPROPENE	6.05	75	13816	1.0260562	ppb #	1
62) 1,1,2-TRICHLOROETHANE	6.12	97	34298	4.9865833	ppb #	1

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:04:40 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

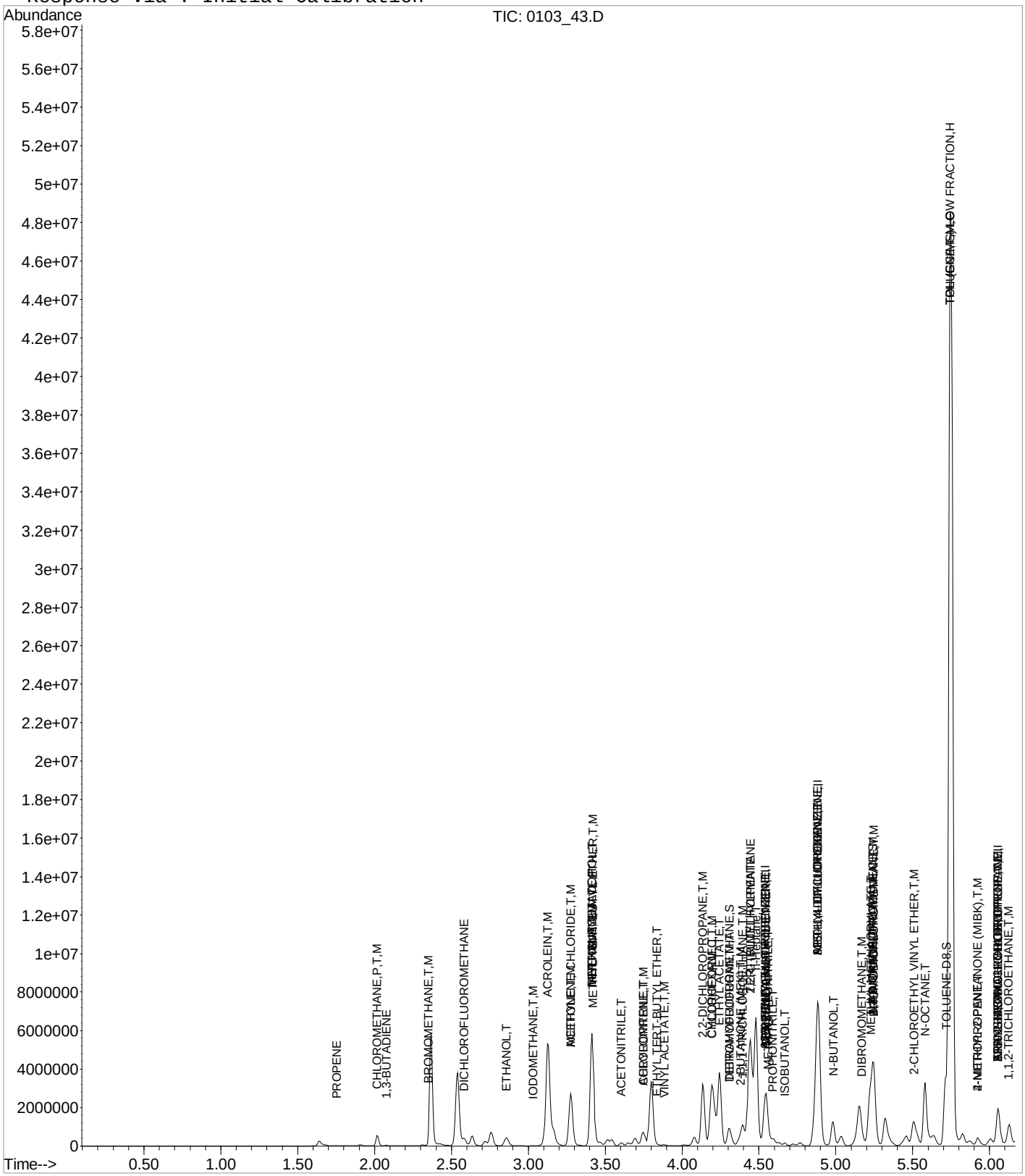
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
65)	2-HEXANONE	6.49	58	1007	0.2785209	ppb	#	1
66)	CHLORODIBROMOMETHANE	6.29	129	1123	0.1608591	ppb	#	32
70)	ETHYLBENZENE	6.75	106	1525376	120.9005028	ppb		100
71)	M&P-XYLENE	6.84	106	3502640	224.7215149	ppb		96
72)	O-XYLENE	7.16	106	1371671	93.7219996	ppb		98
73)	STYRENE	7.19	104	29115	1.2083288	ppb	#	31
75)	ISOPROPYLBENZENE	7.37	105	375825	9.2535776	ppb		100
77)	BROMOBENZENE	7.68	77	57434	3.0974839	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.70	83	28829	2.8804372	ppb	#	27
79)	1,2,3-TRICHLOROPROPANE	7.85	110	2465	0.8808826	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.85	53	8329	2.3696611	ppb	#	33
81)	N-PROPYLBENZENE	7.68	91	1433630	29.1832379	ppb		99
82)	4-ETHYLTOLUENE	7.74	105	5032561	128.6145744	ppb		98
83)	2-CHLOROTOLUENE	7.81	91	148228	4.5794620	ppb	#	52
84)	4-CHLOROTOLUENE	7.99	91	163447	5.5932521	ppb	#	52
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	1353147	39.4804336	ppb		99
86)	TERT-BUTYLBENZENE	8.06	119	5784	0.2067320	ppb	#	32
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	4606539	139.3318881	ppb		100
88)	SEC-BUTYLBENZENE	8.20	105	128063	2.9971512	ppb	#	79
90)	P-ISOPROPYLTOLUENE	8.30	119	61685	1.7998745	ppb		97
91)	DICYCLOPENTADIENE	8.32	66	61919	1.3867893	ppb		100
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	1018888	29.2937010	ppb		100
96)	N-BUTYLBENZENE	8.63	91	124941	3.7865409	ppb	#	91
98)	1,2,4-TRICHLOROBENZENE	10.04	180	4276	0.5226146	ppb	#	25
100)	NAPHTHALENE	10.28	128	237805	9.7668351	ppb	#	91
101)	1,2,3-TRICHLOROBENZENE	10.44	180	3816	0.5053423	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	168682	15.4072283	ppb		95
103)	2-METHYLNAPHTHALENE	11.30	142	92032	8.8394576	ppb		97
105)	ETHANOL	2.85	45	31552	344.0189094	ppb	#	93
108)	ACETONITRILE	3.60	41	48641	35.4810155	ppb	#	47
109)	TERT-BUTYL ALCOHOL	3.41	59	1615	1.1636099	ppb	#	1
110)	CHLOROPRENE	3.75	53	5257	0.3783380	ppb	#	29
111)	PROPIONITRILE	4.59	54	13745	8.2330892	ppb	#	1
112)	ETHYL ACETATE	4.24	43	1976494	188.0253356	ppb	#	46
113)	METHACRYLONITRILE	4.56	67	7765	2.0641074	ppb	#	1
114)	TERT-BUTYL FORMATE	4.44	59	3221	0.4205570	ppb	#	1
115)	ISOBUTANOL	4.66	43	2719	4.9469764	ppb	#	79
117)	N-BUTANOL	4.98	56	211007	797.8463184	ppb	#	34
118)	2-NITROPROPANE	5.92	43	167491	53.5525618	ppb	#	53
119)	METHYL METHACRYLATE	5.22	41	780489	72.3892381	ppb	#	36
120)	1,4-DIOXANE	5.24	88	10780	146.7664705	ppb	#	1
121)	N-OCTANE	5.58	85	474770	69.2762204	ppb		98
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	19034	40.7764803	ppb	#	13
124)	ETHYL METHACRYLATE	6.06	69	74690	7.1222533	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	30701	7.8749862	ppb	#	36
126)	CYCLOHEXANONE	7.92	55	5102	17.4116165	ppb	#	69
127)	PENTACHLOROETHANE	8.12	117	155927	34.7337886	ppb	#	14
128)	HEXACHLOROETHANE	8.78	117	5934	1.0751558	ppb	#	75

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:04 2017 Quant Results File: V808A03Q.RES

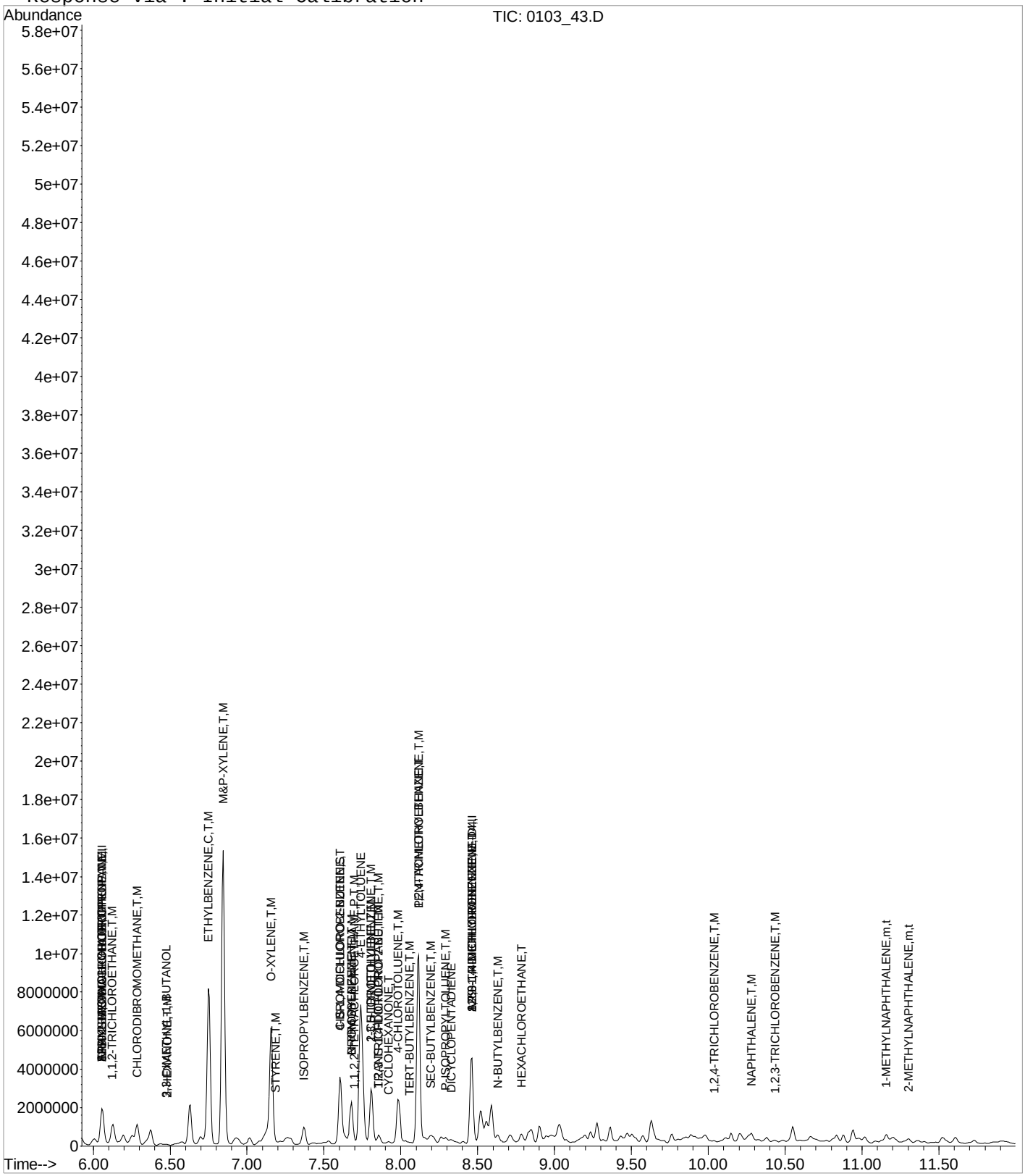
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:04 2017 Quant Results File: V808A03Q.RES

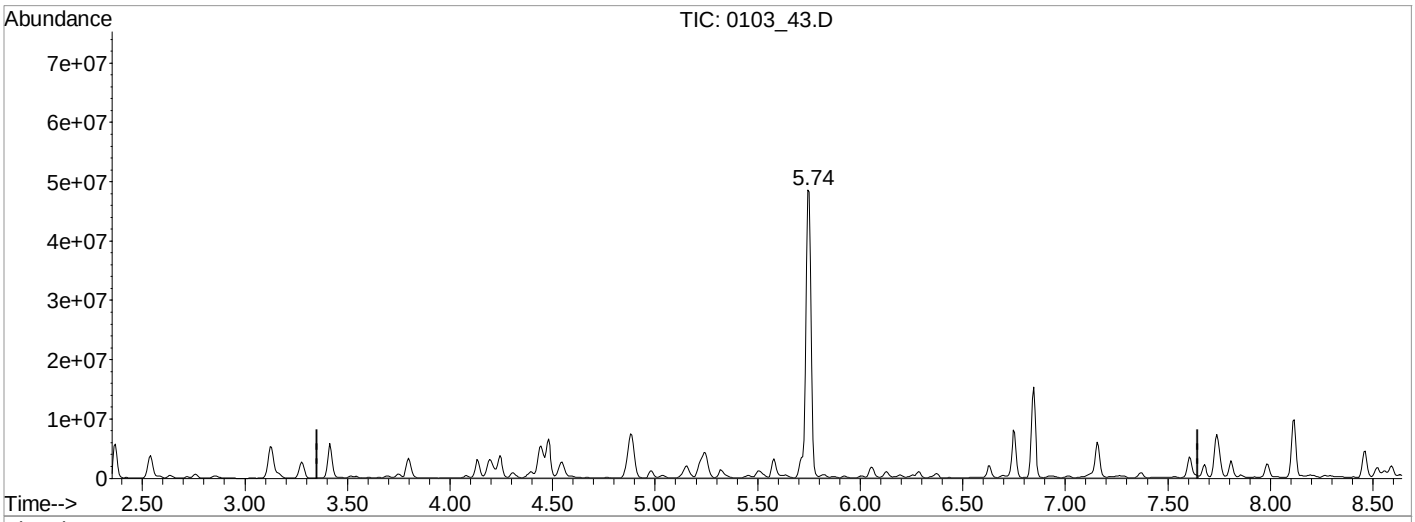
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration

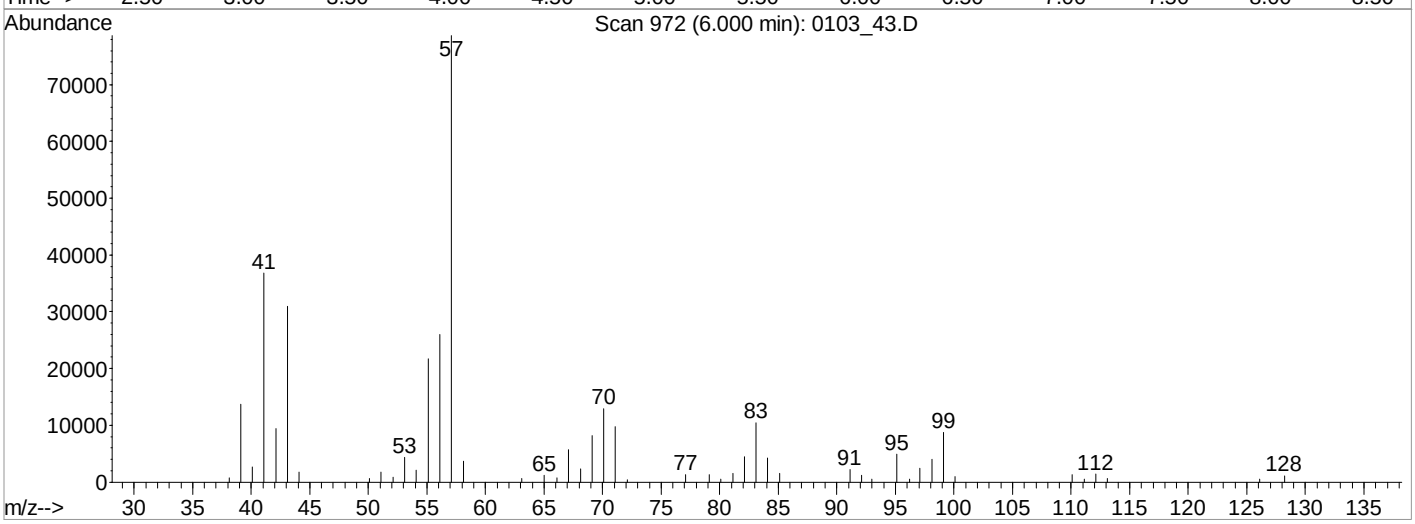


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:04 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Multiple Level Calibration





TIC: 0103_43.D

(2) TPH (GC/MS) LOW FRACTION (H)

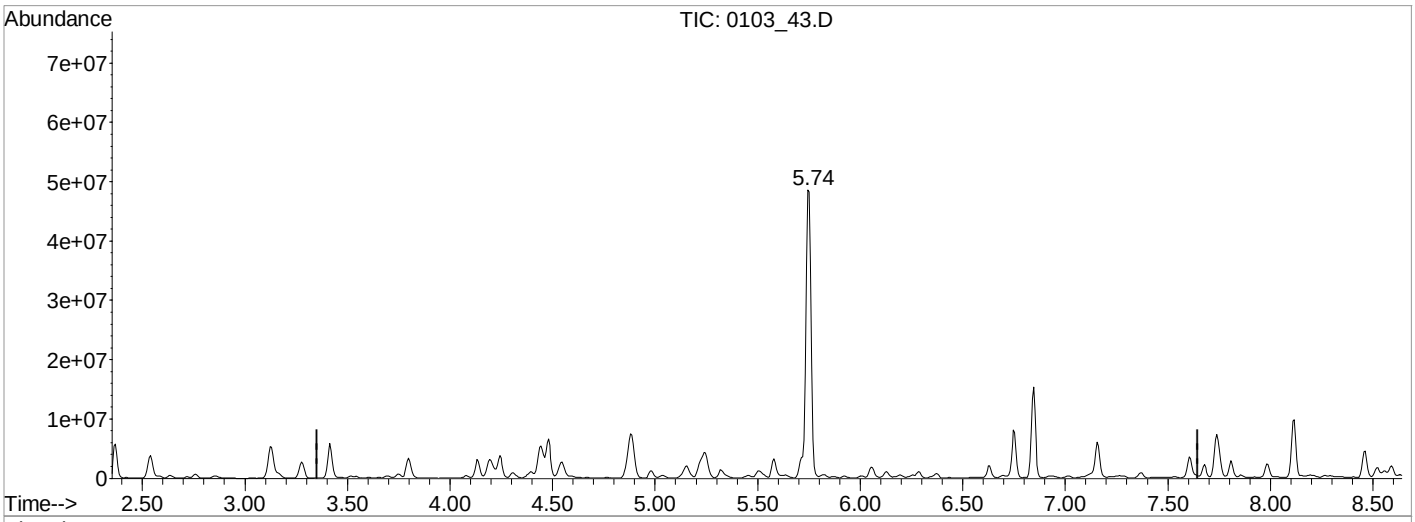
6.00min (0.000) 2.4077490 ppm m

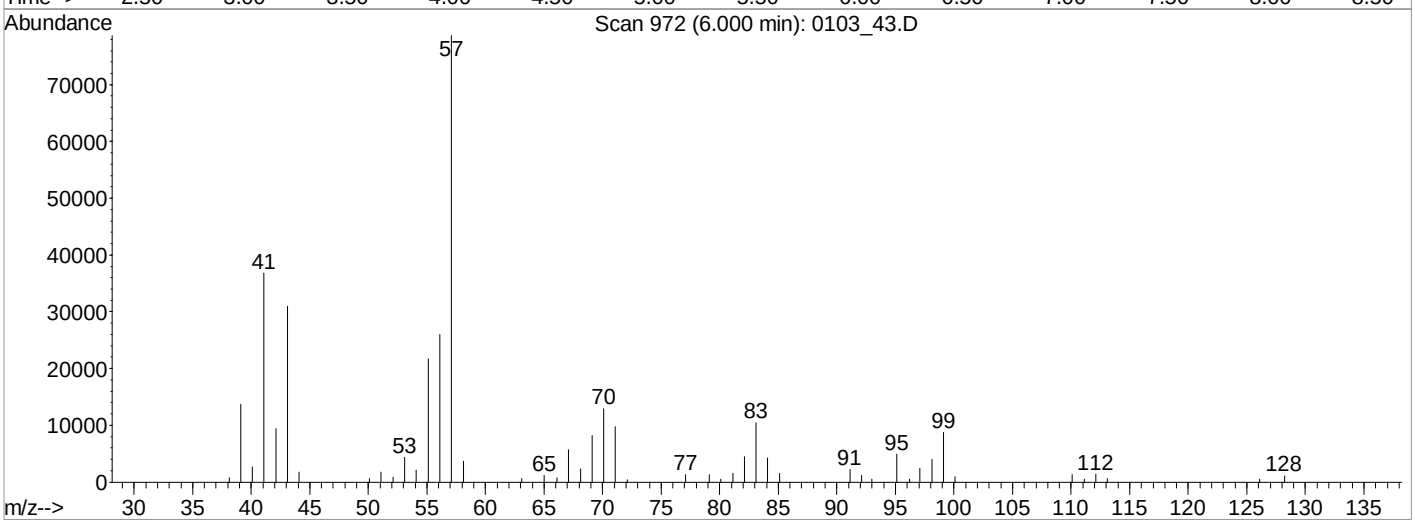
response 123840690

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.74#
0.00	0.00	0.33#
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\010317\0103_43.D Vial: 43
Acq On : 4 Jan 2017 3:13 am Operator: 605
Sample : SSCV GROMS 5.0 ppm 17A03252 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:04 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Multiple Level Calibration





TIC: 0103_43.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.74min (-0.256) 6.2567332 ppm m

response 293178074

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.31#
0.00	0.00	0.14#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_05.D Vial: 5
Acq On : 3 Jan 2017 12:38 pm Operator: 605
Sample : STD VMS 0.25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:02 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	729557	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.89	114	1332455	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	251611	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	538954	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.48
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	399407	40.3756568	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.94%			
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	686071	41.9978350	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.99%			
58) TOLUENE-D8	5.72	98	1711086	42.1215150	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.30%			
76) 4-BROMOFLUOROBENZENE	7.62	95	618655	40.2178604	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.54%			
Target Compounds						Qvalue
4) PROPENE	1.77	41	1340	0.1912453	ppb #	49
5) DICHLORODIFLUOROMETHANE	1.81	85	544	0.0485484	ppb #	43
6) CHLOROMETHANE	2.00	50	3539	0.2713166	ppb #	74
7) VINYL CHLORIDE	2.08	62	1776	0.1401741	ppb #	91
8) 1,3-BUTADIENE	2.09	39	1975	0.2108399	ppb #	52
9) BROMOMETHANE	2.36	94	4480	0.5392582	ppb #	93
10) CHLOROETHANE	2.45	64	1437	0.1690913	ppb #	64
11) TRICHLOROFLUOROMETHANE	2.55	101	867	0.0727462	ppb #	92
12) DICHLOROFLUOROMETHANE	2.59	67	5206	0.3151791	ug/l	89
13) ETHYL ETHER	2.77	59	1666	0.2165357	ppb #	86
15) 1,1-DICHLOROETHENE	2.93	96	957	0.1414402	ppb #	84
17) ACETONE	3.31	43	4220	1.2892135	ppb #	84
18) IODOMETHANE	3.04	142	16101	1.6897225	ppb	96
19) CARBON DISULFIDE	2.96	76	5268	0.2161169	ppb #	78
20) ALLYL CHLORIDE	3.23	76	5318	1.0671151	ppb	88
21) METHYLENE CHLORIDE	3.30	84	1913	0.2405645	ppb	85
22) METHYL ACETATE	3.38	43	10116	1.3326667	ppb #	85
23) ACRYLONITRILE	3.78	53	3990	1.0824592	ppb	92
24) n-HEXANE	3.42	56	1033	0.1144267	ppb #	5
25) TRANS-1,2-DICHLOROETHENE	3.39	96	1326	0.1746967	ppb #	89
26) METHYL TERT-BUTYL ETHER	3.44	73	6217	0.2346075	ppb #	63
27) 1,1-DICHLOROETHANE	3.75	63	4116	0.2521493	ppb #	83
28) VINYL ACETATE	3.86	43	24656	1.3650931	ppb	99
29) DI-ISOPROPYL ETHER	3.64	45	7122	0.2119183	ppb	93
30) ETHYL TERT-BUTYL ETHER	3.85	59	6935	0.2415913	ppb	96
31) 2,2-DICHLOROPROPANE	4.13	77	2664	0.1968937	ppb #	59
32) CIS-1,2-DICHLOROETHENE	4.07	96	1885	0.2283759	ppb	95
33) 2-BUTANONE (MEK)	4.37	43	5293	1.2126037	ppb	92
34) BROMOCHLOROMETHANE	4.19	130	789	0.1921805	ppb	92
35) TETRAHYDROFURAN	4.31	42	2333	0.4469085	ppb #	75
36) CHLOROFORM	4.21	83	3696	0.2430794	ppb #	83
37) CYCLOHEXANE	4.20	84	1386	0.0958501	ppb #	75
39) 1,1,1-TRICHLOROETHANE	4.35	97	2372	0.1863258	ppb #	85
40) CARBON TETRACHLORIDE	4.31	117	1260	0.1164042	ppb	84
41) 1,1-DICHLOROPROPENE	4.42	75	2065	0.1668205	ppb #	76

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_05.D Vial: 5
Acq On : 3 Jan 2017 12:38 pm Operator: 605
Sample : STD VMS 0.25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:02 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

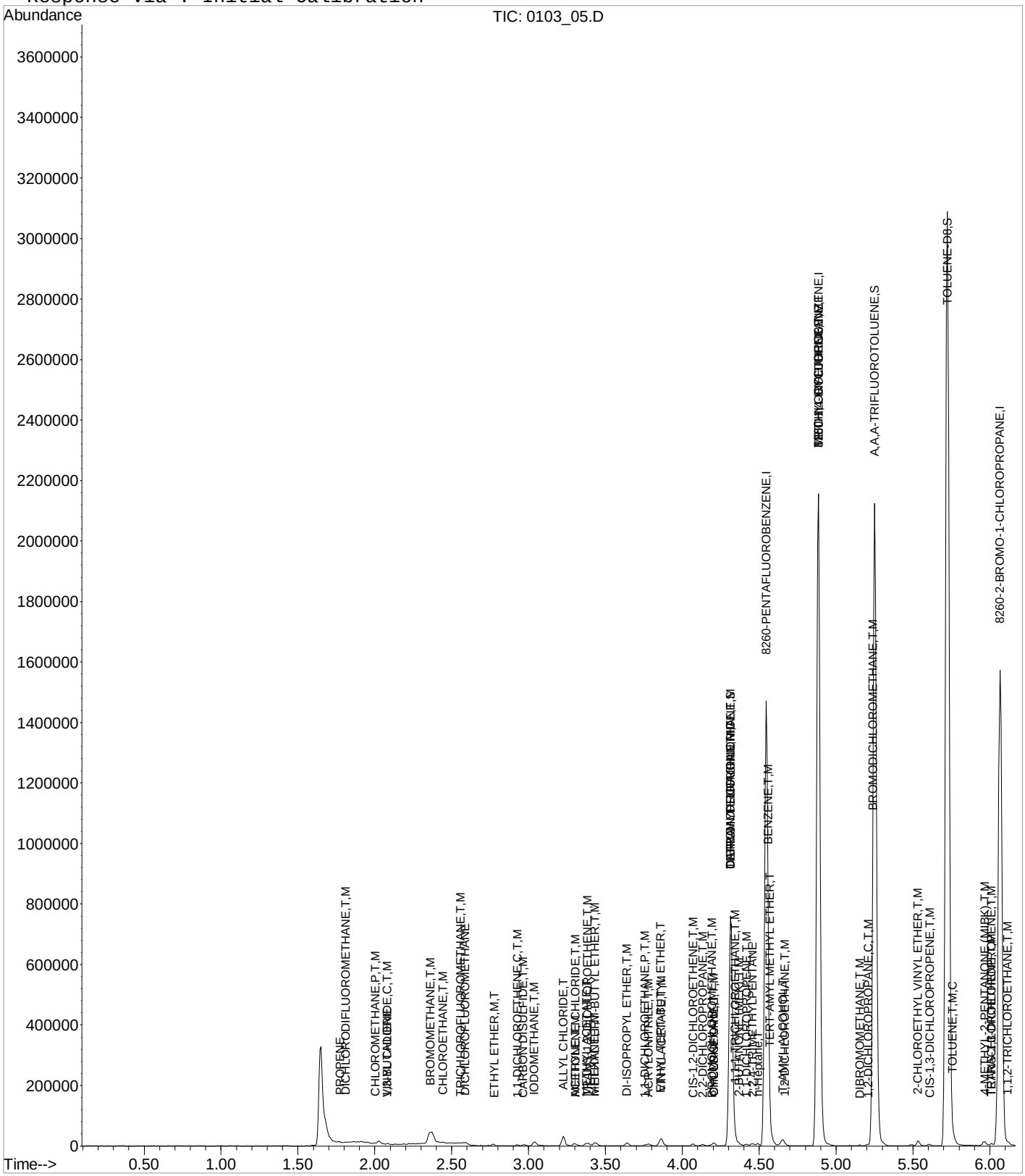
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
42)	2,2,4-TRIMETHYLPENTANE	4.46	57	5405	0.1468017	ppb	#	80
43)	n-Heptane	4.49	71	1252	0.1432302	ppb	#	81
44)	BENZENE	4.56	78	8801	0.2424845	ppb	#	1
45)	TERT-AMYL METHYL ETHER	4.58	73	7641	0.2859273	ppb	#	70
46)	1,2-DICHLOROETHANE	4.67	62	2773	0.2259103	ppb	#	77
47)	T-AMYL ALCOHOL	4.65	59	1028	0.8082401	ppb	#	56
49)	TRICHLOROETHENE	4.89	130	1395	0.1793437	ppb	#	96
50)	METHYL CYCLOHEXANE	4.89	83	19667	1.1394435	ppb	#	43
51)	1,2-DICHLOROPROPANE	5.20	62	1575	0.2416599	ppb	#	74
52)	DIBROMOMETHANE	5.15	93	951	0.2021062	ppb		83
53)	BROMODICHLOROMETHANE	5.23	83	3447	0.3080633	ppb	#	1
55)	2-CHLOROETHYL VINYL ETHER	5.54	63	6657	1.1204977	ppb	#	93
56)	CIS-1,3-DICHLOROPROPENE	5.61	75	3313	0.2346752	ppb	#	95
57)	4-METHYL-2-PENTANONE (MIBK	5.97	43	10247	1.0056806	ppb		95
59)	TOLUENE	5.76	91	8497	0.2338033	ppb		92
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	2893	0.2197500	ppb	#	75
62)	1,1,2-TRICHLOROETHANE	6.12	97	1530	0.2186320	ppb	#	85
63)	TETRACHLOROETHENE	6.02	164	746	0.1338259	ppb	#	88
64)	1,3-DICHLOROPROPANE	6.31	76	3026	0.2232359	ppb		100
65)	2-HEXANONE	6.52	58	182	0.0477218	ppb	#	1
66)	CHLORODIBROMOMETHANE	6.25	129	1398	0.1961181	ppb	#	74
67)	1,2-DIBROMOETHANE	6.44	107	1179	0.1680149	ppb		93
68)	CHLOROBENZENE	6.78	112	4294	0.2001402	ppb	#	94
69)	1,1,1,2-TETRACHLOROETHANE	6.81	133	1388	0.2019767	ppb	#	88
70)	ETHYLBENZENE	6.78	106	2070	0.1661316	ppb	#	64
71)	M&P-XYLENE	6.86	106	6560	0.4188996	ppb		92
72)	O-XYLENE	7.17	106	2878	0.1953680	ppb		90
73)	STYRENE	7.21	104	4373	0.1754208	ppb		93
74)	BROMOFORM	7.26	173	421	0.0939634	ppb	#	57
75)	ISOPROPYLBENZENE	7.38	105	7845	0.1899837	ppb		97
77)	BROMOBENZENE	7.71	77	4331	0.2385764	ppb	#	90
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	2139	0.2084294	ppb	#	86
81)	N-PROPYLBENZENE	7.69	91	9781	0.1951197	ppb	#	87
82)	4-ETHYLTOLUENE	7.77	105	7803	0.1968259	ppb		92
83)	2-CHLOROTOLUENE	7.83	91	7095	0.2269840	ppb	#	85
84)	4-CHLOROTOLUENE	7.96	91	6500	0.2277345	ppb	#	88
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	7380	0.2191197	ppb		91
86)	TERT-BUTYLBENZENE	8.08	119	5282	0.1889223	ppb		91
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	7245	0.2226123	ppb		92
88)	SEC-BUTYLBENZENE	8.21	105	7093	0.1632251	ppb		100
89)	1,3-DICHLOROBENZENE	8.42	146	3359	0.2168372	ppb		87
90)	P-ISOPROPYLTOLUENE	8.30	119	5926	0.1685477	ppb		93
91)	DICYCLOPENTADIENE	8.33	66	8719	0.1951889	ppb		96
93)	1,4-DICHLOROBENZENE	8.48	146	3760	0.2515345	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.48	105	7389	0.2267671	ppb		91
95)	1,2-DICHLOROBENZENE	8.83	146	2825	0.2063348	ppb		90
96)	N-BUTYLBENZENE	8.65	91	5705	0.1713503	ppb	#	81
98)	1,2,4-TRICHLOROBENZENE	10.03	180	906	0.1121250	ppb	#	65
99)	HEXACHLORO-1,3-BUTADIENE	9.98	225	176	0.0485613	ppb	#	19
100)	NAPHTHALENE	10.31	128	4337	0.1767937	ppb	#	85
101)	1,2,3-TRICHLOROBENZENE	10.46	180	1350	0.1712989	ppb	#	83
102)	1-METHYLNAPHTHALENE	11.19	142	1432	0.1305055	ppb	#	74
103)	2-METHYLNAPHTHALENE	11.33	142	1885	0.1788506	ppb		89

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

Quantitation Report (QT Reviewed)

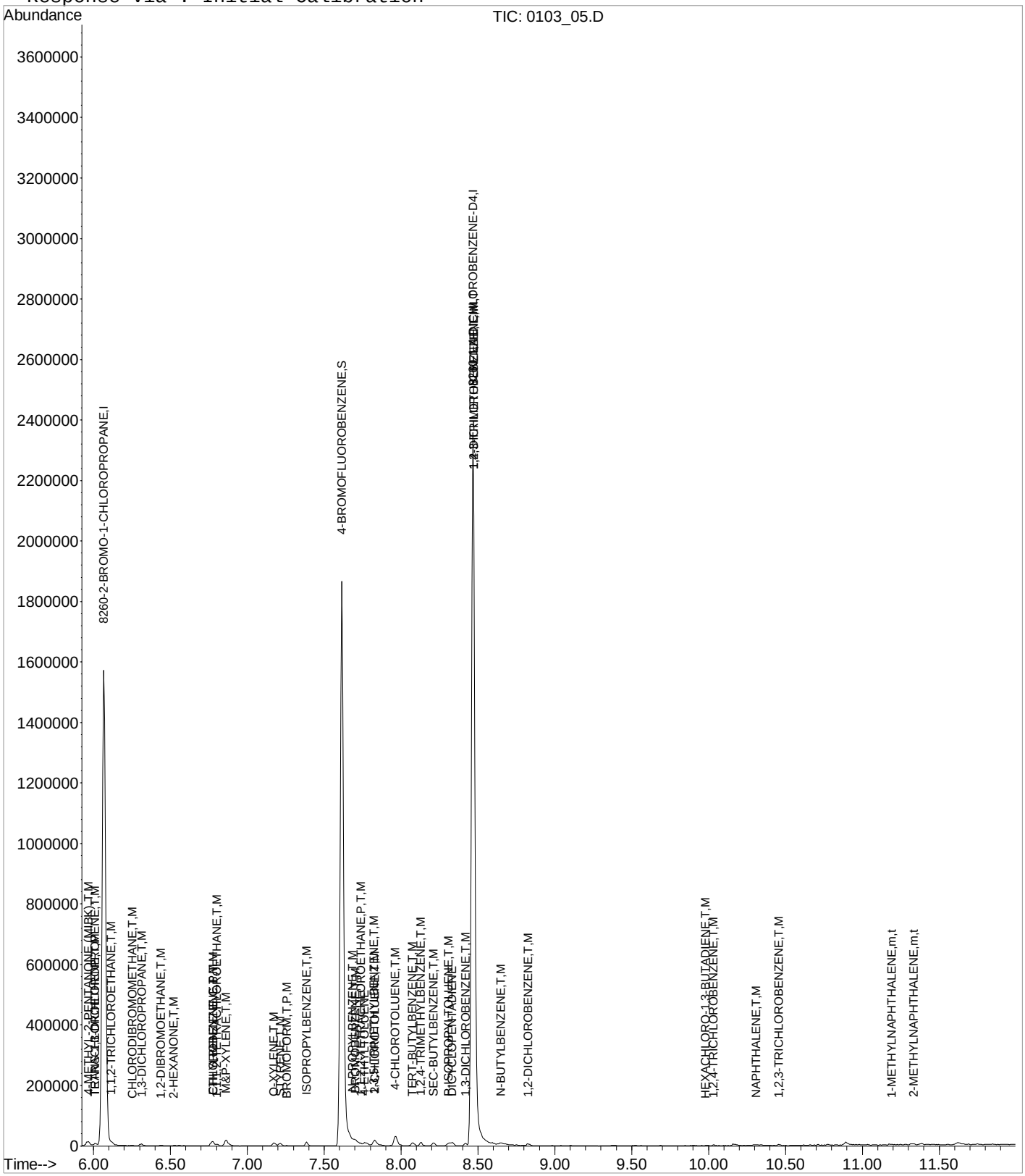
Data File : C:\MSDCHEM\1\DATA\010317\0103_05.D Vial: 5
Acq On : 3 Jan 2017 12:38 pm Operator: 605
Sample : STD VMS 0.25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:24 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\010317\0103_05.D Vial: 5
Acq On : 3 Jan 2017 12:38 pm Operator: 605
Sample : STD VMS 0.25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:24 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_06.D Vial: 6
Acq On : 3 Jan 2017 1:00 pm Operator: 605
Sample : STD VMS 0.5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	726998	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.89	114	1306806	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	247190	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	552325	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	393534	39.9219917	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.80%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	684290	42.7109730	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.78%				
58) TOLUENE-D8	5.73	98	1703406	42.7554763	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.89%				
76) 4-BROMOFLUOROBENZENE	7.62	95	617546	40.8637740	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.16%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	4255	0.6094128	ppb		92
5) DICHLORODIFLUOROMETHANE	1.81	85	5004	0.4481461	ppb	#	86
6) CHLOROMETHANE	2.01	50	7385	0.5681621	ppb	#	89
7) VINYL CHLORIDE	2.07	62	5917	0.4686541	ppb	#	93
8) 1,3-BUTADIENE	2.08	39	6687	0.7163793	ppb	#	70
9) BROMOMETHANE	2.35	94	6889	0.8321487	ppb		87
10) CHLOROETHANE	2.44	64	3815	0.4504898	ppb	#	87
11) TRICHLOROFLUOROMETHANE	2.56	101	5719	0.4815458	ppb	#	90
12) DICHLOROFLUOROMETHANE	2.59	67	8305	0.5045670	ug/l		90
13) ETHYL ETHER	2.77	59	3574	0.4661601	ppb		95
15) 1,1-DICHLOROETHENE	2.92	96	3016	0.4473198	ppb		96
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	3177	0.4481529	ppb	#	89
17) ACETONE	3.31	43	8010	2.4556752	ppb	#	82
18) IODOMETHANE	3.04	142	25010	2.6339180	ppb		99
19) CARBON DISULFIDE	2.97	76	12892	0.5307491	ppb	#	91
20) ALLYL CHLORIDE	3.23	76	11331	2.2816929	ppb		91
21) METHYLENE CHLORIDE	3.29	84	4462	0.5630827	ppb		91
22) METHYL ACETATE	3.37	43	17850	2.3598096	ppb	#	97
23) ACRYLONITRILE	3.78	53	8353	2.2740873	ppb		99
24) n-HEXANE	3.43	56	4585	0.5096739	ppb	#	94
25) TRANS-1,2-DICHLOROETHENE	3.39	96	3698	0.4889159	ppb		94
26) METHYL TERT-BUTYL ETHER	3.44	73	12549	0.4752216	ppb		99
27) 1,1-DICHLOROETHANE	3.76	63	7422	0.4562778	ppb		97
28) VINYL ACETATE	3.86	43	47841	2.6580670	ppb		97
29) DI-ISOPROPYL ETHER	3.64	45	15713	0.4691931	ppb		93
30) ETHYL TERT-BUTYL ETHER	3.85	59	12863	0.4496795	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	6498	0.4819516	ppb	#	84
32) CIS-1,2-DICHLOROETHENE	4.06	96	4126	0.5016424	ppb		94
33) 2-BUTANONE (MEK)	4.37	43	10442	2.4006382	ppb		97
34) BROMOCHLOROMETHANE	4.19	130	1949	0.4763984	ppb		97
35) TETRAHYDROFURAN	4.32	42	3674	0.7062672	ppb		85
36) CHLOROFORM	4.20	83	6881	0.4541443	ppb	#	98
37) CYCLOHEXANE	4.20	84	6590	0.4573418	ppb		94
39) 1,1,1-TRICHLOROETHANE	4.35	97	5966	0.4702919	ppb		94
40) CARBON TETRACHLORIDE	4.31	117	5022	0.4655871	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_06.D Vial: 6
Acq On : 3 Jan 2017 1:00 pm Operator: 605
Sample : STD VMS 0.5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	1,1-DICHLOROPROPENE	4.41	75	5567	0.4513118	ppb		96
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	16000	0.4360952	ppb		96
43)	n-Heptane	4.49	71	3937	0.4519827	ppb	#	20
44)	BENZENE	4.56	78	16879	0.4666859	ppb	#	16
45)	TERT-AMYL METHYL ETHER	4.58	73	13744	0.5161127	ppb	#	69
46)	1,2-DICHLOROETHANE	4.67	62	5182	0.4236523	ppb	#	77
47)	T-AMYL ALCOHOL	4.67	59	2494	1.9677493	ppb		88
49)	TRICHLOROETHENE	4.89	130	3493	0.4578803	ppb	#	52
50)	METHYL CYCLOHEXANE	4.89	83	25612	1.5130024	ppb	#	58
51)	1,2-DICHLOROPROPANE	5.20	62	2879	0.4504091	ppb		91
52)	DIBROMOMETHANE	5.15	93	2259	0.4895046	ppb		93
53)	BROMODICHLOROMETHANE	5.22	83	5899	0.5375496	ppb	#	93
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	12688	2.1775444	ppb		97
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	6679	0.4823903	ppb	#	92
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	20340	2.0354279	ppb		95
59)	TOLUENE	5.76	91	18170	0.5097784	ppb		97
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	6285	0.4867739	ppb	#	89
62)	1,1,2-TRICHLOROETHANE	6.12	97	2670	0.3883580	ppb	#	80
63)	TETRACHLOROETHENE	6.02	164	2721	0.4968536	ppb		90
64)	1,3-DICHLOROPROPANE	6.31	76	5769	0.4332059	ppb		95
65)	2-HEXANONE	6.52	58	2354	0.6282765	ppb	#	1
66)	CHLORODIBROMOMETHANE	6.25	129	3001	0.4285241	ppb	#	87
67)	1,2-DIBROMOETHANE	6.44	107	3055	0.4431431	ppb		99
68)	CHLOROBENZENE	6.78	112	9463	0.4489519	ppb		96
69)	1,1,1,2-TETRACHLOROETHANE	6.81	133	2630	0.3895528	ppb	#	91
70)	ETHYLBENZENE	6.77	106	5267	0.4302728	ppb		94
71)	M&P-XYLENE	6.86	106	13694	0.8900926	ppb		93
72)	O-XYLENE	7.17	106	6530	0.4512058	ppb		93
73)	STYRENE	7.21	104	9987	0.4077888	ppb		94
74)	BROMOFORM	7.26	173	1458	0.3312326	ppb	#	88
75)	ISOPROPYLBENZENE	7.39	105	18158	0.4476002	ppb		97
77)	BROMOBENZENE	7.71	77	8241	0.4620808	ppb		95
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	4291	0.4256037	ppb	#	87
79)	1,2,3-TRICHLOROPROPANE	7.87	110	1026	0.3642857	ppb	#	43
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.88	53	660	0.1955714	ppb	#	36
81)	N-PROPYLBENZENE	7.69	91	22261	0.4520238	ppb	#	93
82)	4-ETHYLTOLUENE	7.76	105	17217	0.4420555	ppb		98
83)	2-CHLOROTOLUENE	7.84	91	15751	0.5129201	ppb	#	92
84)	4-CHLOROTOLUENE	7.96	91	12492	0.4454985	ppb	#	95
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	15368	0.4644523	ppb		93
86)	TERT-BUTYLBENZENE	8.08	119	13479	0.4907285	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	14551	0.4550953	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	19180	0.4492667	ppb		97
89)	1,3-DICHLOROBENZENE	8.42	146	6572	0.4318372	ppb		94
90)	P-ISOPROPYLTOLUENE	8.31	119	14605	0.4228257	ppb		97
91)	DICYCLOPENTADIENE	8.33	66	19918	0.4538714	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	7193	0.4695446	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	15625	0.4679197	ppb		98
95)	1,2-DICHLOROBENZENE	8.83	146	5705	0.4065994	ppb		99
96)	N-BUTYLBENZENE	8.66	91	13275	0.3890636	ppb		96
98)	1,2,4-TRICHLOROBENZENE	10.03	180	3096	0.3738798	ppb	#	78
99)	HEXACHLORO-1,3-BUTADIENE	9.98	225	1378	0.3710085	ppb		92
100)	NAPHTHALENE	10.30	128	9946	0.3956242	ppb	#	82
101)	1,2,3-TRICHLOROBENZENE	10.46	180	2948	0.3650104	ppb		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_06.D Vial: 6
Acq On : 3 Jan 2017 1:00 pm Operator: 605
Sample : STD VMS 0.5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

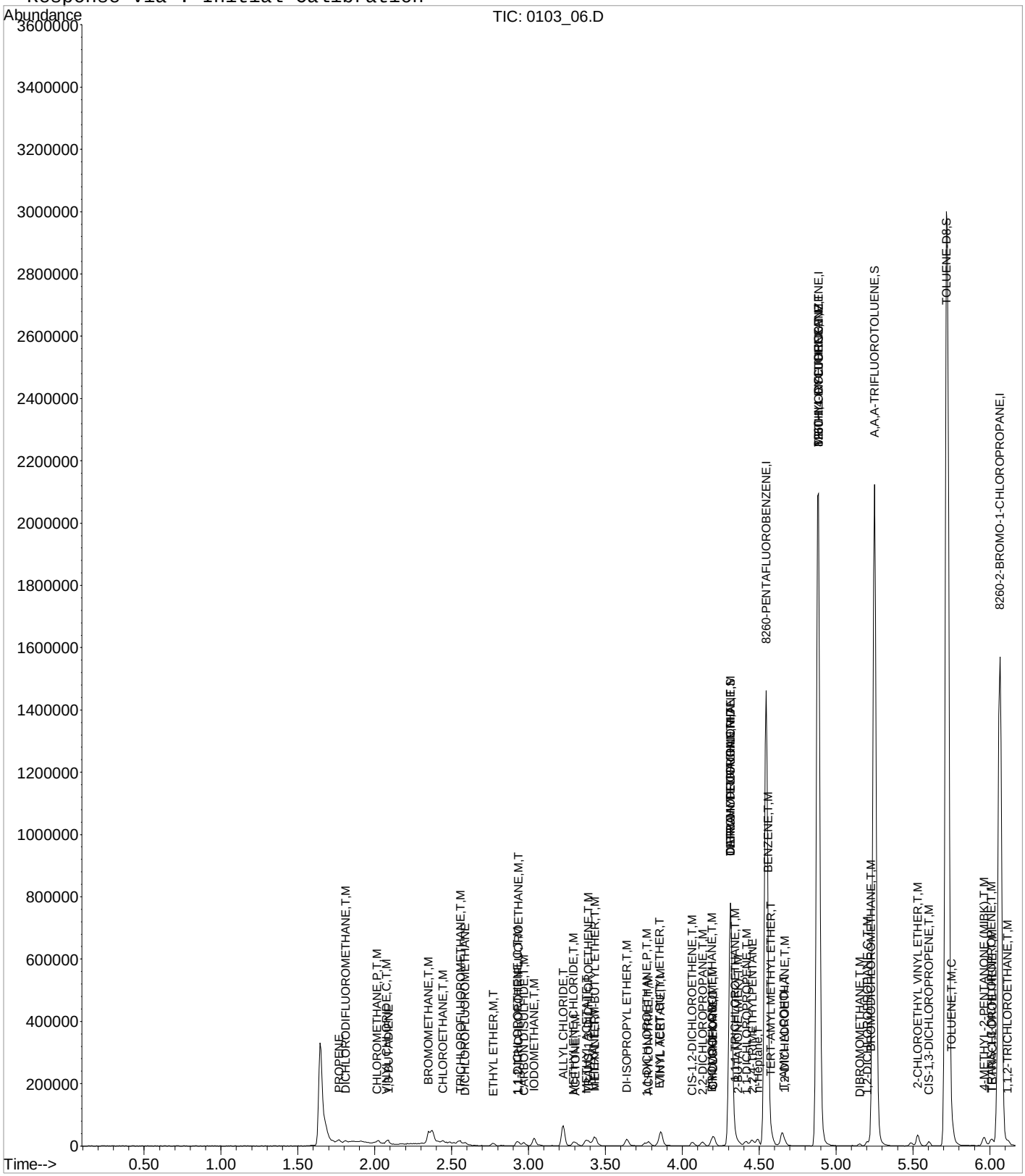
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
102) 1-METHYLNAPHTHALENE	11.18	142	4023	0.3577608	ppb	#	85
103) 2-METHYLNAPHTHALENE	11.32	142	4588	0.4247755	ppb	#	89

(#) = qualifier out of range (m) = manual integration
0103_06.D V808A03Q.M Wed Jan 04 10:25:29 2017 223 of 499 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_06.D Vial: 6
Acq On : 3 Jan 2017 1:00 pm Operator: 605
Sample : STD VMS 0.5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:25 2017 Quant Results File: V808A03Q.RES

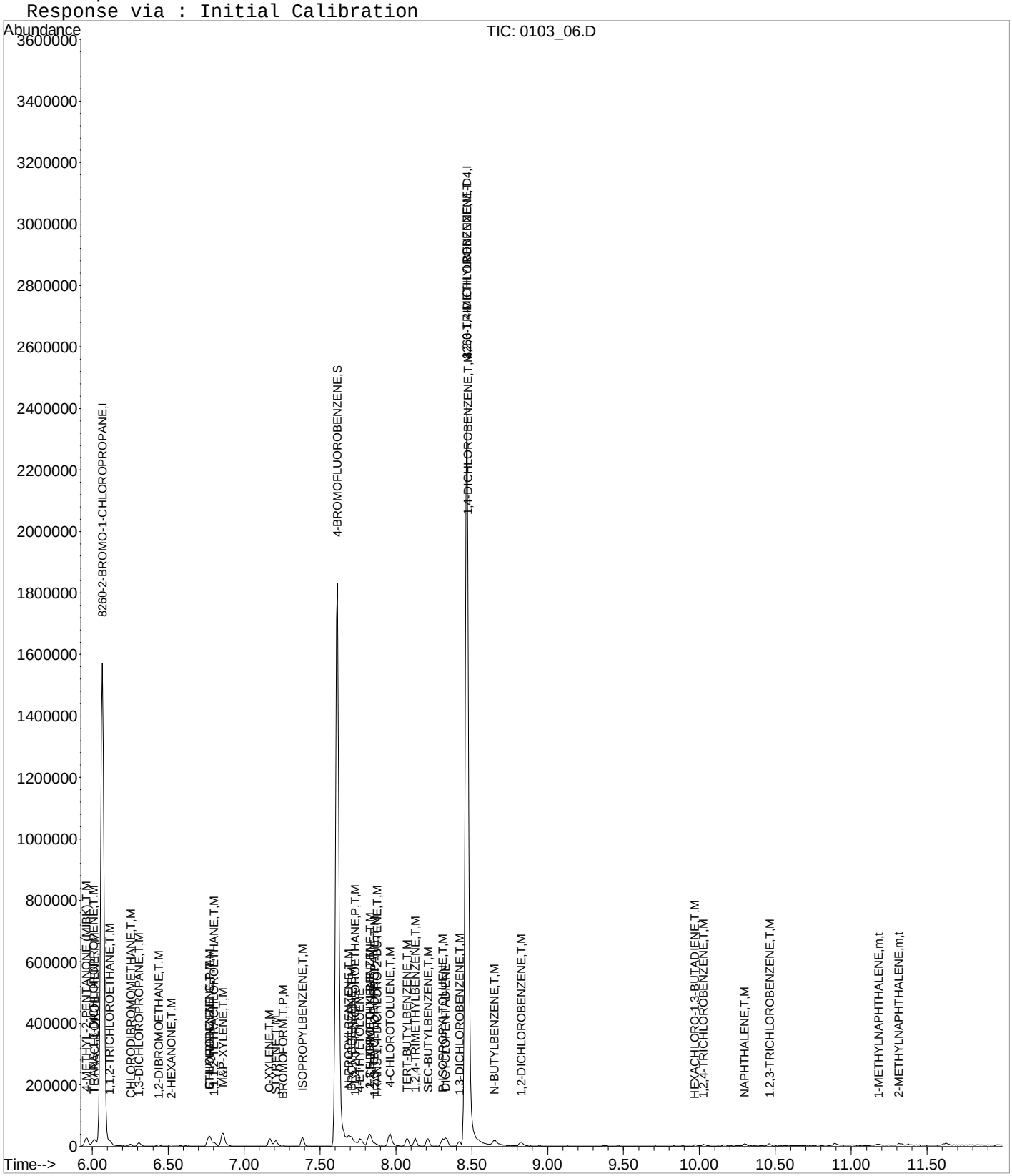
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:11 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_06.D Vial: 6
Acq On : 3 Jan 2017 1:00 pm Operator: 605
Sample : STD VMS 0.5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:25 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:11 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : STD VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	737798	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1311836	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	241648	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	549473	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	402880	40.2718324	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.68%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	695723	43.2580768	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.15%				
58) TOLUENE-D8	5.72	98	1716135	42.9098108	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.27%				
76) 4-BROMOFLUOROBENZENE	7.61	95	625288	42.3249981	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.81%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	7256	1.0240120	ppb		98
5) DICHLORODIFLUOROMETHANE	1.81	85	10187	0.8989683	ppb		98
6) CHLOROMETHANE	2.00	50	13944	1.0570728	ppb		92
7) VINYL CHLORIDE	2.07	62	11363	0.8868284	ppb		99
8) 1,3-BUTADIENE	2.09	39	11062	1.1677264	ppb	#	76
9) BROMOMETHANE	2.35	94	12084	1.4383058	ppb		97
10) CHLOROETHANE	2.44	64	7532	0.8763880	ppb	#	92
11) TRICHLOROFLUOROMETHANE	2.55	101	11742	0.9742162	ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	17117	1.0247139	ug/l		100
13) ETHYL ETHER	2.77	59	6721	0.8637940	ppb		92
14) ACROLEIN	3.13	56	153	1.0712010	ppb	#	15
15) 1,1-DICHLOROETHENE	2.93	96	6380	0.9324020	ppb		93
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	6473	0.8997262	ppb	#	94
17) ACETONE	3.31	43	14434	4.3603449	ppb		96
18) IODOMETHANE	3.03	142	45408	4.7121236	ppb		96
19) CARBON DISULFIDE	2.97	76	22975	0.9320092	ppb	#	93
20) ALLYL CHLORIDE	3.22	76	23662	4.6950059	ppb		91
21) METHYLENE CHLORIDE	3.29	84	7764	0.9654369	ppb		96
22) METHYL ACETATE	3.37	43	35666	4.6461037	ppb	#	99
23) ACRYLONITRILE	3.78	53	17273	4.6337028	ppb		99
24) n-HEXANE	3.42	56	8152	0.8929209	ppb	#	75
25) TRANS-1,2-DICHLOROETHENE	3.39	96	7149	0.9313401	ppb		98
26) METHYL TERT-BUTYL ETHER	3.44	73	25789	0.9623152	ppb		96
27) 1,1-DICHLOROETHANE	3.76	63	15026	0.9102224	ppb		97
28) VINYL ACETATE	3.86	43	94902	5.1956128	ppb		99
29) DI-ISOPROPYL ETHER	3.64	45	32662	0.9610168	ppb		94
30) ETHYL TERT-BUTYL ETHER	3.85	59	25696	0.8851607	ppb		97
31) 2,2-DICHLOROPROPANE	4.13	77	13460	0.9837041	ppb		100
32) CIS-1,2-DICHLOROETHENE	4.07	96	7937	0.9508612	ppb		98
33) 2-BUTANONE (MEK)	4.37	43	17496	3.9634878	ppb	#	80
34) BROMOCHLOROMETHANE	4.19	130	3786	0.9118739	ppb		93
35) TETRAHYDROFURAN	4.32	42	6312	1.1956185	ppb		95
36) CHLOROFORM	4.21	83	14608	0.9500113	ppb	#	98
37) CYCLOHEXANE	4.20	84	13367	0.9140820	ppb		96
39) 1,1,1-TRICHLOROETHANE	4.35	97	11729	0.9110473	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : STD VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.32	117	9738	0.8895896	ppb		94
41)	1,1-DICHLOROPROPENE	4.41	75	10815	0.8639284	ppb		97
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	32526	0.8735499	ppb		94
43)	n-Heptane	4.49	71	7640	0.8642622	ppb	#	91
44)	BENZENE	4.56	78	34505	0.9400603	ppb	#	58
45)	TERT-AMYL METHYL ETHER	4.58	73	27171	1.0053858	ppb	#	75
46)	1,2-DICHLOROETHANE	4.67	62	11405	0.9187624	ppb		97
47)	T-AMYL ALCOHOL	4.66	59	5401	4.1989744	ppb		96
49)	TRICHLOROETHENE	4.89	130	7291	0.9520768	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	32737	1.9264891	ppb	#	69
51)	1,2-DICHLOROPROPANE	5.20	62	6357	0.9907162	ppb		99
52)	DIBROMOMETHANE	5.15	93	4427	0.9556122	ppb		96
53)	BROMODICHLOROMETHANE	5.23	83	11259	1.0220487	ppb	#	62
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	26316	4.4990964	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.61	75	13362	0.9613692	ppb	#	98
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	44418	4.4278750	ppb		98
59)	TOLUENE	5.76	91	34876	0.9747310	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	12294	0.9485206	ppb	#	97
62)	1,1,2-TRICHLOROETHANE	6.12	97	6599	0.9818538	ppb		94
63)	TETRACHLOROETHENE	6.02	164	5026	0.9387935	ppb		96
64)	1,3-DICHLOROPROPANE	6.31	76	12219	0.9385928	ppb		97
65)	2-HEXANONE	6.52	58	11384	3.1080425	ppb		93
66)	CHLORODIBROMOMETHANE	6.25	129	6037	0.8818163	ppb		98
67)	1,2-DIBROMOETHANE	6.44	107	6388	0.9478626	ppb		97
68)	CHLOROBENZENE	6.77	112	18963	0.9202921	ppb		95
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	5727	0.8677316	ppb	#	100
70)	ETHYLBENZENE	6.77	106	10800	0.9025100	ppb		91
71)	M&P-XYLENE	6.86	106	27263	1.8127011	ppb		90
72)	O-XYLENE	7.17	106	13627	0.9631843	ppb		99
73)	STYRENE	7.21	104	20871	0.8717485	ppb		92
74)	BROMOFORM	7.26	173	3991	0.9274810	ppb		92
75)	ISOPROPYLBENZENE	7.38	105	36907	0.9306334	ppb		98
77)	BROMOBENZENE	7.71	77	17394	0.9976660	ppb		94
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	9305	0.9440846	ppb	#	94
79)	1,2,3-TRICHLOROPROPANE	7.86	110	2276	0.8266367	ppb	#	56
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	2430	0.7365724	ppb	#	73
81)	N-PROPYLBENZENE	7.69	91	44165	0.9173658	ppb		98
82)	4-ETHYLTOLUENE	7.77	105	34220	0.8987668	ppb		98
83)	2-CHLOROTOLUENE	7.83	91	27979	0.9320118	ppb		98
84)	4-CHLOROTOLUENE	7.96	91	27572	1.0058430	ppb		96
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	32395	1.0014966	ppb		100
86)	TERT-BUTYLBENZENE	8.08	119	24618	0.9168199	ppb		92
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	29391	0.9403111	ppb		97
88)	SEC-BUTYLBENZENE	8.22	105	40242	0.9642351	ppb		99
89)	1,3-DICHLOROBENZENE	8.42	146	13713	0.9217277	ppb		99
90)	P-ISOPROPYLTOLUENE	8.31	119	29224	0.8654604	ppb		97
91)	DICYCLOPENTADIENE	8.33	66	41255	0.9616375	ppb		97
93)	1,4-DICHLOROBENZENE	8.48	146	14940	0.9803152	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.48	105	32243	0.9705883	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	12435	0.8908513	ppb		99
96)	N-BUTYLBENZENE	8.65	91	27632	0.8140419	ppb		97
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.47	157	1054	0.6083576	ppb	#	86
98)	1,2,4-TRICHLOROBENZENE	10.03	180	7069	0.8580990	ppb	#	90
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	2976	0.8054080	ppb		93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : STD VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

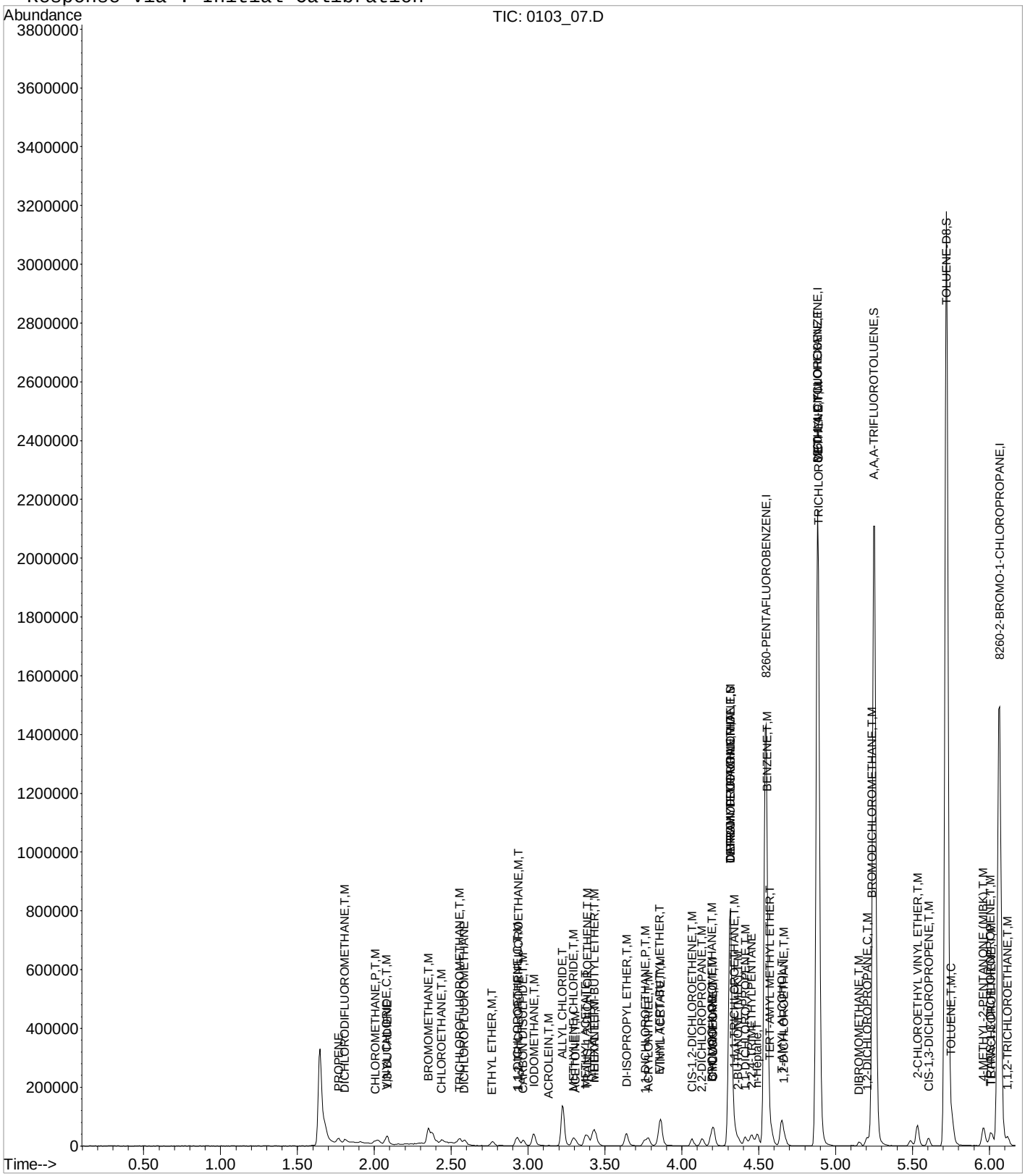
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.29	128	20163	0.8061908	ppb	96
101) 1,2,3-TRICHLOROBENZENE	10.45	180	6469	0.8051249	ppb	93
102) 1-METHYLNAPHTHALENE	11.17	142	9482	0.8476000	ppb	95
103) 2-METHYLNAPHTHALENE	11.32	142	9950	0.9259926	ppb	98

(#) = qualifier out of range (m) = manual integration
0103_07.D V808A03Q.M Wed Jan 04 10:25:55 2017 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : STD VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:25 2017 Quant Results File: V808A03Q.RES

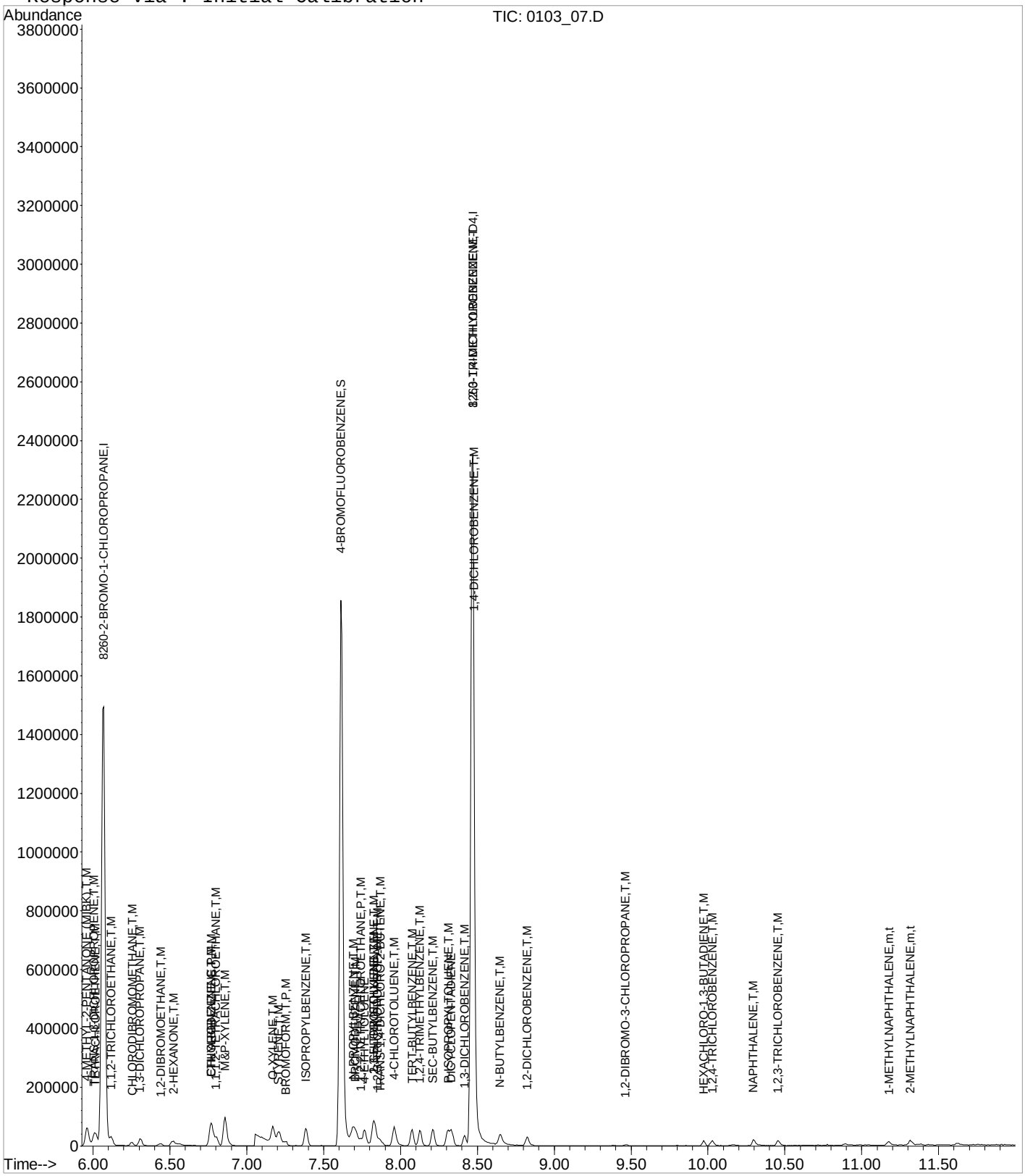
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:33 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_07.D Vial: 7
Acq On : 3 Jan 2017 1:23 pm Operator: 605
Sample : STD VMS 1 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:25 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:33 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_08.D Vial: 8
Acq On : 3 Jan 2017 1:46 pm Operator: 605
Sample : STD VMS 2 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:11 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	722896	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.89	114	1323600	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	244054	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	556269	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	406628	41.4843811	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.71%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	693556	42.7400638	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.85%				
58) TOLUENE-D8	5.72	98	1729124	42.8503207	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.13%				
76) 4-BROMOFLUOROBENZENE	7.62	95	634292	42.5111998	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.28%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	12789	1.8420695	ppb		96
5) DICHLORODIFLUOROMETHANE	1.81	85	18713	1.6854006	ppb		99
6) CHLOROMETHANE	2.00	50	26544	2.0537404	ppb		98
7) VINYL CHLORIDE	2.08	62	22156	1.7648166	ppb		96
8) 1,3-BUTADIENE	2.09	39	17574	1.8933884	ppb		90
9) BROMOMETHANE	2.35	94	20157	2.4486576	ppb		99
10) CHLOROETHANE	2.44	64	14720	1.7480570	ppb		95
11) TRICHLOROFLUOROMETHANE	2.56	101	22104	1.8717411	ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	34893	2.1319399	ug/l		96
13) ETHYL ETHER	2.77	59	14235	1.8672196	ppb		96
14) ACROLEIN	3.14	56	610	4.3588409	ppb	#	73
15) 1,1-DICHLOROETHENE	2.93	96	11528	1.7194841	ppb		97
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	11979	1.6993662	ppb		98
17) ACETONE	3.31	43	25202	7.7701751	ppb		99
18) IODOMETHANE	3.04	142	84658	8.9663142	ppb		99
19) CARBON DISULFIDE	2.97	76	43964	1.8202186	ppb		96
20) ALLYL CHLORIDE	3.23	76	46519	9.4205598	ppb		98
21) METHYLENE CHLORIDE	3.29	84	15681	1.9900949	ppb		93
22) METHYL ACETATE	3.37	43	68573	9.1169442	ppb	#	98
23) ACRYLONITRILE	3.78	53	33312	9.1205864	ppb		99
24) n-HEXANE	3.43	56	15738	1.7593815	ppb		93
25) TRANS-1,2-DICHLOROETHENE	3.40	96	14043	1.8671730	ppb		97
26) METHYL TERT-BUTYL ETHER	3.44	73	50059	1.9064554	ppb		96
27) 1,1-DICHLOROETHANE	3.75	63	31392	1.9408178	ppb		98
28) VINYL ACETATE	3.86	43	174107	9.7283525	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	63182	1.8973316	ppb		96
30) ETHYL TERT-BUTYL ETHER	3.85	59	53112	1.8672862	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	24714	1.8434193	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	15641	1.9124361	ppb		100
33) 2-BUTANONE (MEK)	4.37	43	35612	8.2337329	ppb	#	79
34) BROMOCHLOROMETHANE	4.19	130	8029	1.9736824	ppb		95
35) TETRAHYDROFURAN	4.33	42	11831	2.2872242	ppb		95
36) CHLOROFORM	4.20	83	29468	1.9559166	ppb		96
37) CYCLOHEXANE	4.20	84	24245	1.6921351	ppb		96
39) 1,1,1-TRICHLOROETHANE	4.35	97	23207	1.8397576	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_08.D Vial: 8
Acq On : 3 Jan 2017 1:46 pm Operator: 605
Sample : STD VMS 2 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:11 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	20082	1.8723565	ppb		93
41)	1,1-DICHLOROPROPENE	4.41	75	21028	1.7143948	ppb		97
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	57933	1.5879789	ppb		94
43)	n-Heptane	4.49	71	14571	1.6822989	ppb	#	93
44)	BENZENE	4.56	78	66157	1.8395481	ppb	#	81
45)	TERT-AMYL METHYL ETHER	4.58	73	49976	1.8873405	ppb	#	93
46)	1,2-DICHLOROETHANE	4.67	62	21577	1.7740287	ppb		96
47)	T-AMYL ALCOHOL	4.66	59	10630	8.4345899	ppb		99
49)	TRICHLOROETHENE	4.89	130	14212	1.8393437	ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	45916	2.6780244	ppb	#	79
51)	1,2-DICHLOROPROPANE	5.21	62	12992	2.0067619	ppb		99
52)	DIBROMOMETHANE	5.15	93	8794	1.8814011	ppb		98
53)	BROMODICHLOROMETHANE	5.23	83	21007	1.8899860	ppb	#	83
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	52166	8.8392566	ppb		99
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	26640	1.8996594	ppb	#	99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	86429	8.5392283	ppb		99
59)	TOLUENE	5.76	91	70909	1.9641843	ppb		98
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	23208	1.7746554	ppb		95
62)	1,1,2-TRICHLOROETHANE	6.12	97	12913	1.9023617	ppb		98
63)	TETRACHLOROETHENE	6.02	164	10325	1.9095672	ppb		96
64)	1,3-DICHLOROPROPANE	6.31	76	24514	1.8644597	ppb		99
65)	2-HEXANONE	6.52	58	24721	6.6827524	ppb		96
66)	CHLORODIBROMOMETHANE	6.25	129	12642	1.8283949	ppb		98
67)	1,2-DIBROMOETHANE	6.44	107	12484	1.8341360	ppb		99
68)	CHLOROBENZENE	6.78	112	39466	1.8964397	ppb		98
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	11920	1.7882645	ppb	#	100
70)	ETHYLBENZENE	6.76	106	21900	1.8120479	ppb		99
71)	M&P-XYLENE	6.86	106	56581	3.7249499	ppb		100
72)	O-XYLENE	7.17	106	25994	1.8191962	ppb		96
73)	STYRENE	7.21	104	42873	1.7730830	ppb		94
74)	BROMOFORM	7.25	173	7427	1.7089682	ppb		99
75)	ISOPROPYLBENZENE	7.39	105	75902	1.8950488	ppb		99
77)	BROMOBENZENE	7.71	77	33099	1.8797404	ppb		99
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	17350	1.7429756	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.86	110	4640	1.6686210	ppb		83
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.88	53	4965	1.4901352	ppb	#	86
81)	N-PROPYLBENZENE	7.69	91	87975	1.8093428	ppb		99
82)	4-ETHYLTOLUENE	7.76	105	67512	1.7556797	ppb		96
83)	2-CHLOROTOLUENE	7.84	91	53998	1.7810011	ppb		99
84)	4-CHLOROTOLUENE	7.96	91	53615	1.9366250	ppb		97
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	59345	1.8165732	ppb		96
86)	TERT-BUTYLBENZENE	8.07	119	50679	1.8687731	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	60519	1.9171065	ppb		99
88)	SEC-BUTYLBENZENE	8.21	105	77019	1.8272523	ppb		97
89)	1,3-DICHLOROBENZENE	8.42	146	25632	1.7058856	ppb		94
90)	P-ISOPROPYLTOLUENE	8.31	119	58832	1.7251165	ppb		98
91)	DICYCLOPENTADIENE	8.33	66	81213	1.8743798	ppb		99
93)	1,4-DICHLOROBENZENE	8.48	146	30287	1.9630569	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	62183	1.8489825	ppb		99
95)	1,2-DICHLOROBENZENE	8.83	146	25616	1.8127264	ppb		99
96)	N-BUTYLBENZENE	8.65	91	56399	1.6412221	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	2523	1.4384577	ppb		95
98)	1,2,4-TRICHLOROBENZENE	10.02	180	13174	1.5796417	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.98	225	6248	1.6702655	ppb		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_08.D Vial: 8
Acq On : 3 Jan 2017 1:46 pm Operator: 605
Sample : STD VMS 2 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:11 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

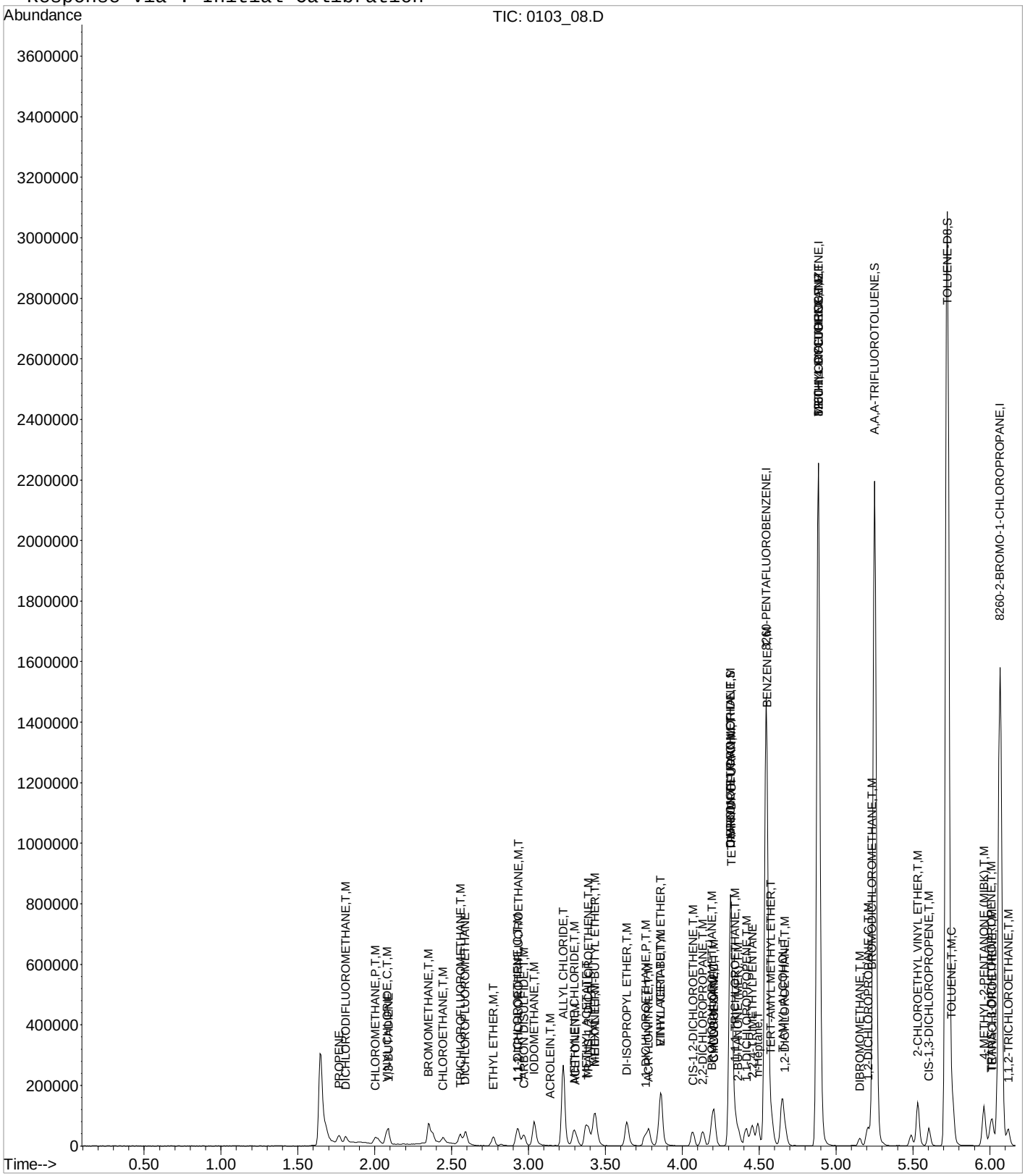
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.30	128	41545	1.6408277	ppb	96
101) 1,2,3-TRICHLOROBENZENE	10.46	180	13214	1.6245082	ppb	97
102) 1-METHYLNAPHTHALENE	11.17	142	18024	1.5914892	ppb	98
103) 2-METHYLNAPHTHALENE	11.31	142	20754	1.9078655	ppb	94

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_08.D Vial: 8
Acq On : 3 Jan 2017 1:46 pm Operator: 605
Sample : STD VMS 2 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

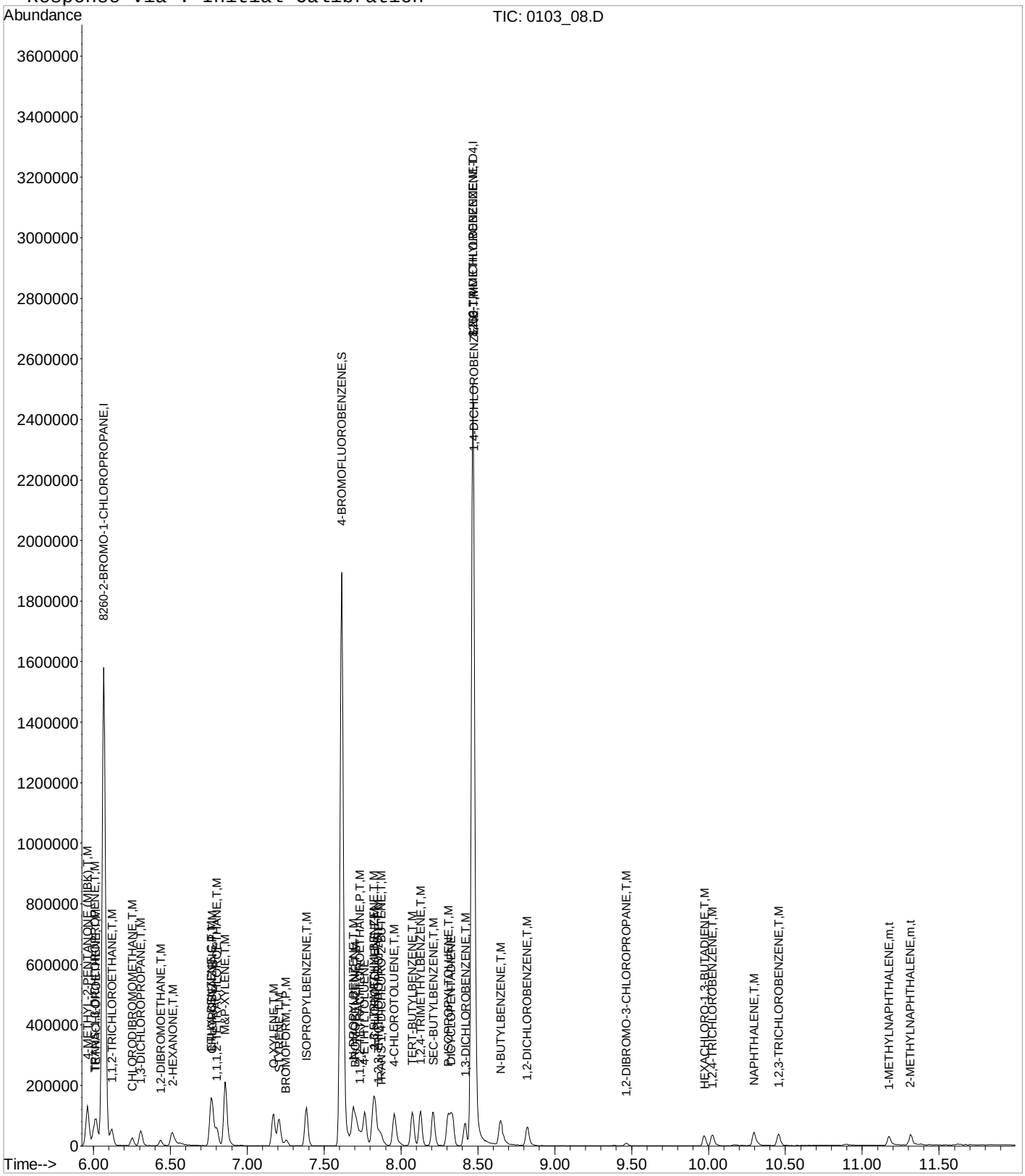
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_08.D Vial: 8
Acq On : 3 Jan 2017 1:46 pm Operator: 605
Sample : STD VMS 2 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:25:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_09.D Vial: 9
Acq On : 3 Jan 2017 2:09 pm Operator: 605
Sample : STD VMS 5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	714747	40.00 ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.89	114	1290402	40.00 ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	240988	40.00 ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	541864	40.00 ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00 ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00 ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00 ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00 ppb		-8.48
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	408350	42.1350366 ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.34%			
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	705864	44.6176197 ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.54%			
58) TOLUENE-D8	5.72	98	1761794	44.7831662 ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.96%			
76) 4-BROMOFLUOROBENZENE	7.62	95	648720	44.0313426 ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 110.08%			
Target Compounds						Qvalue
4) PROPENE	1.77	41	34962	5.0931819 ppb		97
5) DICHLORODIFLUOROMETHANE	1.81	85	54515	4.9659143 ppb		100
6) CHLOROMETHANE	2.01	50	67033	5.2455533 ppb		99
7) VINYL CHLORIDE	2.07	62	62649	5.0471459 ppb		99
8) 1,3-BUTADIENE	2.09	39	46771	5.0964672 ppb		98
9) BROMOMETHANE	2.35	94	43501	5.3447192 ppb		98
10) CHLOROETHANE	2.44	64	39772	4.7769280 ppb		98
11) TRICHLOROFLUOROMETHANE	2.55	101	61696	5.2839098 ppb		100
12) DICHLOROFLUOROMETHANE	2.59	67	82812	5.1174475 ug/l		99
13) ETHYL ETHER	2.77	59	37654	4.9954259 ppb		99
14) ACROLEIN	3.14	56	2286	16.5211735 ppb		92
15) 1,1-DICHLOROETHENE	2.92	96	33525	5.0575066 ppb		95
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	34912	5.0091567 ppb		98
17) ACETONE	3.31	43	68578	21.3847459 ppb		98
18) IODOMETHANE	3.04	142	222162	23.7979312 ppb		99
19) CARBON DISULFIDE	2.97	76	115483	4.8357950 ppb		99
20) ALLYL CHLORIDE	3.23	76	120491	24.6788223 ppb		100
21) METHYLENE CHLORIDE	3.29	84	39691	5.0946640 ppb		99
22) METHYL ACETATE	3.37	43	185436	24.9352472 ppb	#	100
23) ACRYLONITRILE	3.78	53	89044	24.6575655 ppb		100
24) n-HEXANE	3.43	56	42823	4.8418470 ppb		98
25) TRANS-1,2-DICHLOROETHENE	3.40	96	36519	4.9109671 ppb		99
26) METHYL TERT-BUTYL ETHER	3.43	73	128177	4.9371699 ppb		100
27) 1,1-DICHLOROETHANE	3.75	63	78744	4.9238719 ppb		99
28) VINYL ACETATE	3.86	43	474150	26.7955268 ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	162082	4.9227540 ppb		98
30) ETHYL TERT-BUTYL ETHER	3.85	59	138762	4.9341491 ppb		100
31) 2,2-DICHLOROPROPANE	4.13	77	66767	5.0369359 ppb		98
32) CIS-1,2-DICHLOROETHENE	4.06	96	40860	5.0529413 ppb		99
33) 2-BUTANONE (MEK)	4.37	43	133492	31.2161351 ppb	#	88
34) BROMOCHLOROMETHANE	4.19	130	20123	5.0030175 ppb		97
35) TETRAHYDROFURAN	4.32	42	27725	5.4210362 ppb		96
36) CHLOROFORM	4.20	83	73566	4.9385596 ppb		98
37) CYCLOHEXANE	4.20	84	70466	4.9741164 ppb		99
39) 1,1,1-TRICHLOROETHANE	4.35	97	62259	4.9919155 ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_09.D Vial: 9
Acq On : 3 Jan 2017 2:09 pm Operator: 605
Sample : STD VMS 5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	52414	4.9425648	ppb		100
41)	1,1-DICHLOROPROPENE	4.41	75	59922	4.9410886	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	168178	4.6624197	ppb		93
43)	n-Heptane	4.49	71	42326	4.9424752	ppb	#	97
44)	BENZENE	4.56	78	175670	4.9403353	ppb		94
45)	TERT-AMYL METHYL ETHER	4.58	73	129183	4.9342098	ppb		96
46)	1,2-DICHLOROETHANE	4.67	62	58977	4.9042855	ppb		100
47)	T-AMYL ALCOHOL	4.66	59	28099	22.5499224	ppb		100
49)	TRICHLOROETHENE	4.89	130	36811	4.8867153	ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	98410	5.8873715	ppb		92
51)	1,2-DICHLOROPROPANE	5.20	62	30841	4.8862989	ppb		99
52)	DIBROMOMETHANE	5.15	93	22490	4.9353292	ppb		98
53)	BROMODICHLOROMETHANE	5.23	83	54312	5.0121270	ppb	#	91
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	143757	24.9855514	ppb		99
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	69767	5.1029734	ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	237014	24.0195501	ppb		100
59)	TOLUENE	5.76	91	181523	5.1575598	ppb		98
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	61652	4.8356541	ppb		98
62)	1,1,2-TRICHLOROETHANE	6.12	97	33872	5.0535586	ppb		100
63)	TETRACHLOROETHENE	6.02	164	26784	5.0166157	ppb		98
64)	1,3-DICHLOROPROPANE	6.31	76	64164	4.9422051	ppb		99
65)	2-HEXANONE	6.51	58	78579	21.5122751	ppb		93
66)	CHLORODIBROMOMETHANE	6.25	129	32701	4.7896719	ppb		99
67)	1,2-DIBROMOETHANE	6.44	107	33562	4.9936273	ppb		99
68)	CHLOROBENZENE	6.77	112	101731	4.9506218	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	32032	4.8666495	ppb	#	98
70)	ETHYLBENZENE	6.76	106	60123	5.0379832	ppb		96
71)	M&P-XYLENE	6.86	106	147338	9.8232478	ppb		98
72)	O-XYLENE	7.17	106	71061	5.0364932	ppb		99
73)	STYRENE	7.20	104	115743	4.8476410	ppb		95
74)	BROMOFORM	7.25	173	19871	4.6305309	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	194121	4.9082901	ppb		99
77)	BROMOBENZENE	7.71	77	86172	4.9560957	ppb		99
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	47632	4.8459749	ppb		97
79)	1,2,3-TRICHLOROPROPANE	7.86	110	13874	5.0527978	ppb		90
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	15230	4.6291029	ppb	#	85
81)	N-PROPYLBENZENE	7.69	91	237040	4.9371205	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	184155	4.8499620	ppb		100
83)	2-CHLOROTOLUENE	7.83	91	148790	4.9699357	ppb		99
84)	4-CHLOROTOLUENE	7.96	91	135467	4.9554516	ppb		97
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	158955	4.9275776	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	136265	5.0886594	ppb		98
87)	1,2,4-TRIMETHYLBENZENE	8.13	105	153565	4.9264860	ppb		99
88)	SEC-BUTYLBENZENE	8.21	105	204720	4.9187123	ppb		99
89)	1,3-DICHLOROBENZENE	8.41	146	71833	4.8415223	ppb		99
90)	P-ISOPROPYLTOLUENE	8.31	119	169090	5.0212663	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	214438	5.0121529	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	73828	4.9123838	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	163491	4.9905629	ppb		98
95)	1,2-DICHLOROBENZENE	8.82	146	66885	4.8589702	ppb		98
96)	N-BUTYLBENZENE	8.64	91	161844	4.8348956	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	7423	4.3446405	ppb		96
98)	1,2,4-TRICHLOROBENZENE	10.02	180	38215	4.7040222	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.98	225	17919	4.9175957	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_09.D Vial: 9
Acq On : 3 Jan 2017 2:09 pm Operator: 605
Sample : STD VMS 5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

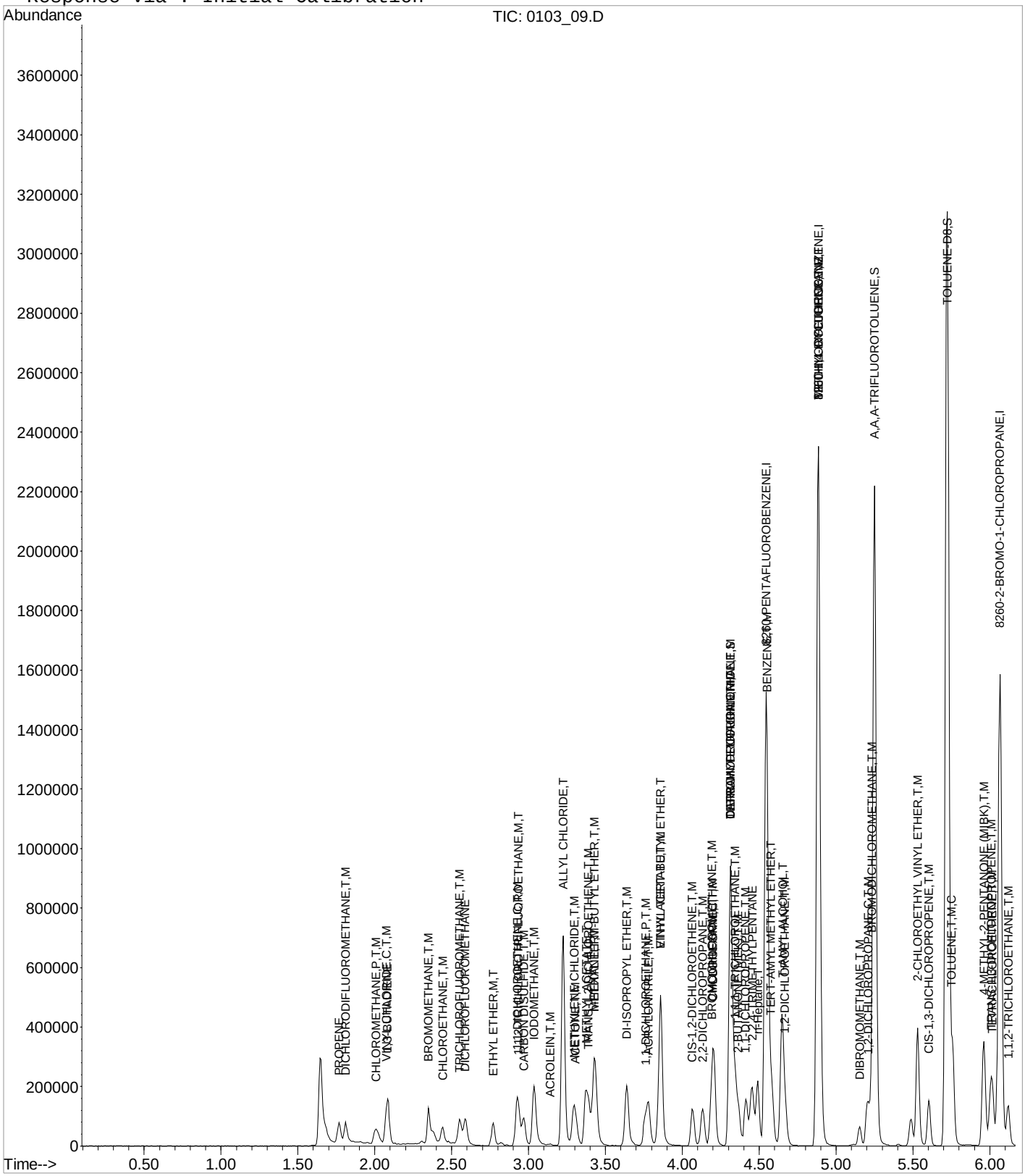
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.30	128	114037	4.6236457	ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.46	180	37060	4.6772175	ppb	99
102) 1-METHYLNAPHTHALENE	11.17	142	52498	4.7587165	ppb	98
103) 2-METHYLNAPHTHALENE	11.31	142	50672	4.7819886	ppb	97

(#) = qualifier out of range (m) = manual integration
0103_09.D V808A03Q.M Wed Jan 04 10:26:30 2017 238 of 499 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_09.D Vial: 9
Acq On : 3 Jan 2017 2:09 pm Operator: 605
Sample : STD VMS 5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:18 2017
Response via : Initial Calibration

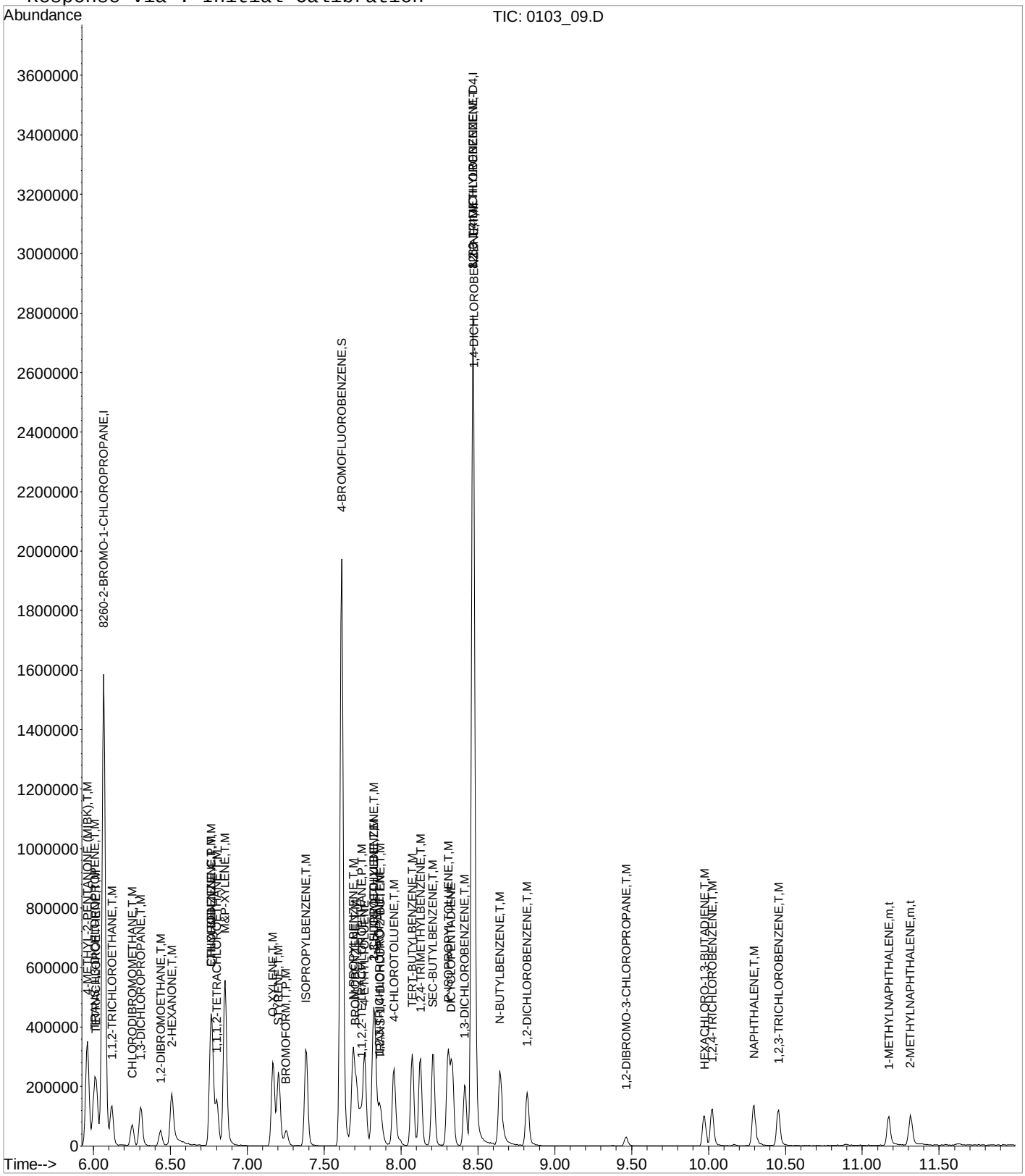


0103_09.D V808A03Q.M Wed Jan 04 10:26:30 2017 239 of 499 Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_09.D Vial: 9
Acq On : 3 Jan 2017 2:09 pm Operator: 605
Sample : STD VMS 5 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:18 2017
Response via : Initial Calibration



0103_09.D V808A03Q.M Wed Jan 04 10:26:30 2017 240 of 499 Page 5

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : STD VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:17 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	718743	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1341472	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	251702	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	554848	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	425029	43.6122097	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 109.03%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	729249	44.3409120	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.85%				
58) TOLUENE-D8	5.72	98	1848816	45.2060723	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 113.02%				
76) 4-BROMOFLUOROBENZENE	7.61	95	671848	43.6600693	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 109.15%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	70587	10.2257779	ppb		97
5) DICHLORODIFLUOROMETHANE	1.81	85	111445	10.0953761	ppb		97
6) CHLOROMETHANE	2.01	50	135303	10.5290403	ppb		99
7) VINYL CHLORIDE	2.07	62	126253	10.1146797	ppb		99
8) 1,3-BUTADIENE	2.09	39	91509	9.9159677	ppb		99
9) BROMOMETHANE	2.35	94	85603	10.4590767	ppb		99
10) CHLOROETHANE	2.44	64	78545	9.3814188	ppb		97
11) TRICHLOROFLUOROMETHANE	2.55	101	125849	10.7183238	ppb		98
12) DICHLOROFLUOROMETHANE	2.59	67	179657	11.0403534	ug/l		99
13) ETHYL ETHER	2.77	59	75931	10.0174974	ppb		99
14) ACROLEIN	3.13	56	5071	36.4449190	ppb	#	81
15) 1,1-DICHLOROETHENE	2.93	96	68831	10.3259606	ppb		96
16) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	70378	10.0416603	ppb		99
17) ACETONE	3.31	43	139939	43.3947068	ppb		99
18) IODOMETHANE	3.03	142	462162	49.2314214	ppb		100
19) CARBON DISULFIDE	2.97	76	243817	10.1529563	ppb		98
20) ALLYL CHLORIDE	3.22	76	250795	51.0819431	ppb		98
21) METHYLENE CHLORIDE	3.30	84	81738	10.4334089	ppb		99
22) METHYL ACETATE	3.37	43	355134	47.4887341	ppb	#	100
23) ACRYLONITRILE	3.78	53	176993	48.7394178	ppb		98
24) n-HEXANE	3.42	56	88965	10.0030368	ppb		98
25) TRANS-1,2-DICHLOROETHENE	3.39	96	76547	10.2365836	ppb		98
26) METHYL TERT-BUTYL ETHER	3.44	73	256981	9.8434581	ppb		98
27) 1,1-DICHLOROETHANE	3.76	63	163266	10.1522835	ppb		98
28) VINYL ACETATE	3.86	43	900197	50.5897834	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	332467	10.0415466	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	282836	10.0012692	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	136370	10.2306238	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.07	96	83900	10.3177872	ppb		99
33) 2-BUTANONE (MEK)	4.37	43	258345	60.0762292	ppb	#	88
34) BROMOCHLOROMETHANE	4.18	130	43091	10.6538009	ppb		97
35) TETRAHYDROFURAN	4.32	42	51792	10.0705259	ppb		97
36) CHLOROFORM	4.21	83	152324	10.1688117	ppb		98
37) CYCLOHEXANE	4.20	84	144252	10.1259757	ppb		99
39) 1,1,1-TRICHLOROETHANE	4.35	97	126208	10.0630745	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : STD VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:17 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	106912	10.0255967	ppb		95
41)	1,1-DICHLOROPROPENE	4.41	75	121517	9.9644216	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	335584	9.2517128	ppb		94
43)	n-Heptane	4.49	71	86163	10.0054539	ppb	#	99
44)	BENZENE	4.56	78	357117	9.9872992	ppb		97
45)	TERT-AMYL METHYL ETHER	4.58	73	260689	9.9017889	ppb		96
46)	1,2-DICHLOROETHANE	4.67	62	119324	9.8673285	ppb		99
47)	T-AMYL ALCOHOL	4.66	59	56430	45.0342517	ppb		98
49)	TRICHLOROETHENE	4.89	130	78037	9.9651400	ppb	#	99
50)	METHYL CYCLOHEXANE	4.90	83	187915	10.8140175	ppb		95
51)	1,2-DICHLOROPROPANE	5.20	62	66881	10.1928996	ppb		98
52)	DIBROMOMETHANE	5.15	93	45941	9.6977398	ppb		100
53)	BROMODICHLOROMETHANE	5.22	83	112454	9.9826213	ppb	#	97
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	284540	47.5714817	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	138462	9.7419808	ppb		98
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	466728	45.4986112	ppb		100
59)	TOLUENE	5.75	91	366520	10.0173698	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	129161	9.7450231	ppb		100
62)	1,1,2-TRICHLOROETHANE	6.12	97	68317	9.7587457	ppb		98
63)	TETRACHLOROETHENE	6.02	164	55971	10.0370760	ppb		98
64)	1,3-DICHLOROPROPANE	6.31	76	133288	9.8294482	ppb		99
65)	2-HEXANONE	6.51	58	165926	43.4913652	ppb		96
66)	CHLORODIBROMOMETHANE	6.25	129	67536	9.4708469	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	66873	9.5263788	ppb		99
68)	CHLOROBENZENE	6.77	112	207563	9.6708607	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	65540	9.5336939	ppb	#	98
70)	ETHYLBENZENE	6.76	106	123073	9.8738747	ppb		99
71)	M&P-XYLENE	6.85	106	305814	19.5211971	ppb		100
72)	O-XYLENE	7.16	106	144724	9.8207859	ppb		98
73)	STYRENE	7.20	104	242142	9.7098963	ppb		99
74)	BROMOFORM	7.25	173	41799	9.3257915	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	401835	9.7277906	ppb		99
77)	BROMOBENZENE	7.71	77	176005	9.6918630	ppb		98
78)	1,1,2,2-TETRACHLOROETHANE	7.74	83	96102	9.3610274	ppb		99
79)	1,2,3-TRICHLOROPROPANE	7.86	110	26853	9.3633615	ppb		96
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	30570	8.8961300	ppb	#	91
81)	N-PROPYLBENZENE	7.69	91	483616	9.6440955	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	386706	9.7508951	ppb		100
83)	2-CHLOROTOLUENE	7.83	91	310575	9.9323559	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	280836	9.8358355	ppb		99
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	329451	9.7781987	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	273324	9.7724977	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	322633	9.9097465	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	428132	9.8486701	ppb		99
89)	1,3-DICHLOROBENZENE	8.42	146	151326	9.7651796	ppb		100
90)	P-ISOPROPYLTOLUENE	8.31	119	351256	9.9868341	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	438515	9.8133157	ppb		99
93)	1,4-DICHLOROBENZENE	8.48	146	158316	10.2875574	ppb	#	1
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	341559	10.1821079	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	143814	10.2031189	ppb		99
96)	N-BUTYLBENZENE	8.64	91	340334	9.9291509	ppb		100
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	14714	8.4104922	ppb		95
98)	1,2,4-TRICHLOROBENZENE	10.02	180	80517	9.6791976	ppb		98
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	35235	9.4434264	ppb		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : STD VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:17 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

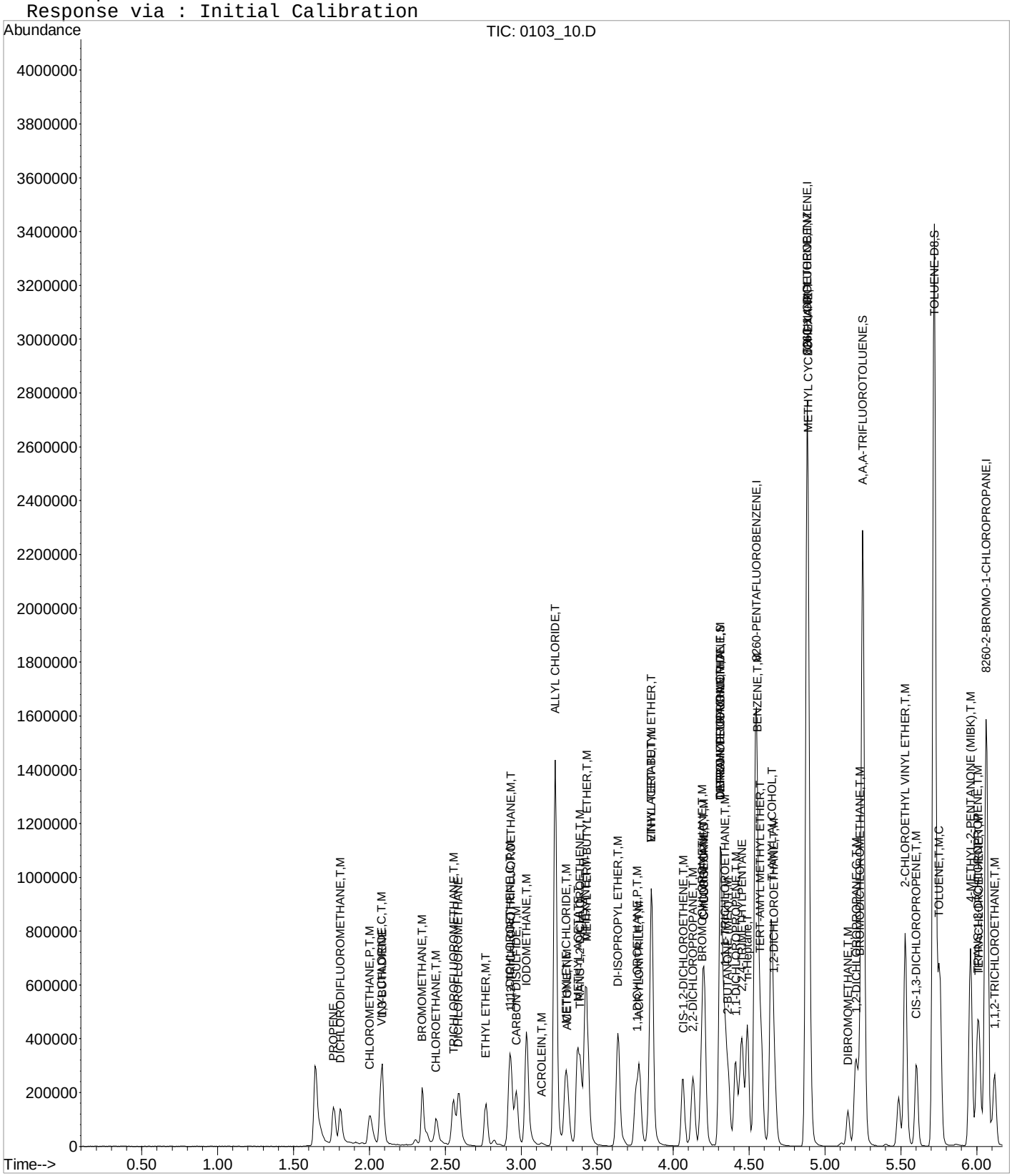
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.30	128	229933	9.1045051	ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.45	180	76067	9.3755060	ppb	99
102) 1-METHYLNAPHTHALENE	11.17	142	109913	9.7299903	ppb	98
103) 2-METHYLNAPHTHALENE	11.31	142	99349	9.1563053	ppb	97

(#) = qualifier out of range (m) = manual integration
0103_10.D V808A03Q.M Wed Jan 04 10:26:49 2017 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : STD VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

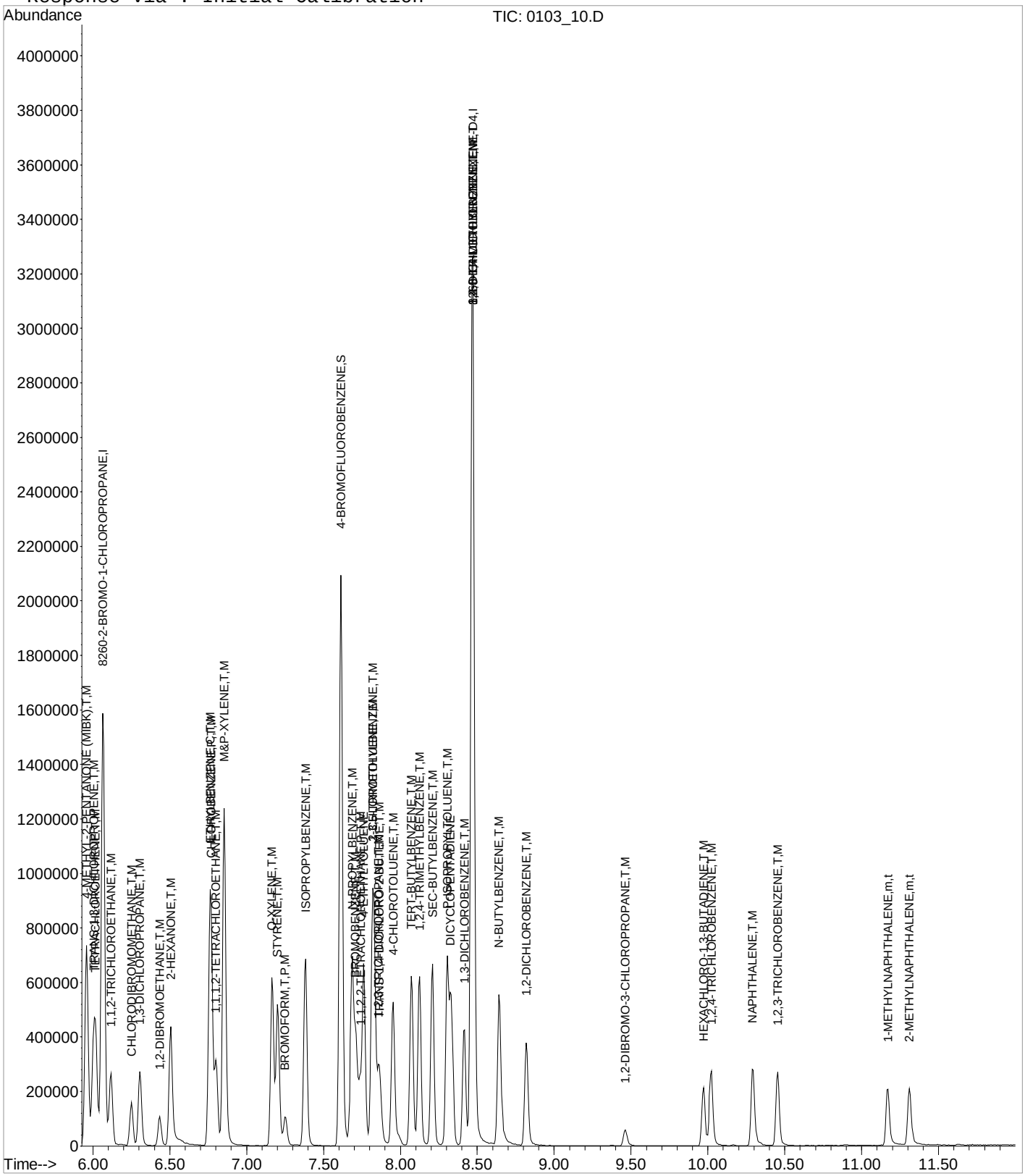
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:34 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_10.D Vial: 10
Acq On : 3 Jan 2017 2:32 pm Operator: 605
Sample : STD VMS 10 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:26 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:34 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_11.D Vial: 11
Acq On : 3 Jan 2017 2:55 pm Operator: 605
Sample : MSTD VMS 25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:20 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	714169	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1325589	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	247254	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	561051	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.32	111	435763	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.50%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	731326	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%				
58) TOLUENE-D8	5.72	98	1818598	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%				
76) 4-BROMOFLUOROBENZENE	7.61	95	680230	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	171473	25.0000000	ppb		100
5) DICHLORODIFLUOROMETHANE	1.81	85	274224	25.0000000	ppb		100
6) CHLOROMETHANE	2.00	50	319217	25.0000000	ppb		100
7) VINYL CHLORIDE	2.07	62	310068	25.0000000	ppb		100
8) 1,3-BUTADIENE	2.08	39	229243	25.0000000	ppb		100
9) BROMOMETHANE	2.34	94	203312	25.0000000	ppb		100
10) CHLOROETHANE	2.43	64	207976	24.9997596	ppb		100
11) TRICHLOROFLUOROMETHANE	2.55	101	291669	25.0000000	ppb		100
12) DICHLOROFLUOROMETHANE	2.59	67	404230	25.0000000	ug/l		100
13) ETHYL ETHER	2.77	59	188290	25.0000000	ppb		100
14) ACROLEIN	3.14	56	17282	125.0000000	ppb		100
15) 1,1-DICHLOROETHENE	2.92	96	165585	25.0000000	ppb		100
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	174100	25.0000000	ppb		100
17) ACETONE	3.31	43	400534	125.0000000	ppb		100
18) IODOMETHANE	3.04	142	1165975	125.0000000	ppb		100
19) CARBON DISULFIDE	2.97	76	596539	25.0000000	ppb		100
20) ALLYL CHLORIDE	3.22	76	609802	125.0000000	ppb		100
21) METHYLENE CHLORIDE	3.29	84	194610	25.0000000	ppb		100
22) METHYL ACETATE	3.37	43	928836	125.0000000	ppb	#	100
23) ACRYLONITRILE	3.77	53	451038	125.0000000	ppb		100
24) n-HEXANE	3.42	56	220605	24.9632236	ppb		99
25) TRANS-1,2-DICHLOROETHENE	3.39	96	185755	25.0000000	ppb		100
26) METHYL TERT-BUTYL ETHER	3.43	73	648516	25.0000000	ppb		100
27) 1,1-DICHLOROETHANE	3.76	63	399484	25.0000000	ppb		100
28) VINYL ACETATE	3.86	43	2210101	125.0000000	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	822461	25.0000000	ppb		100
30) ETHYL TERT-BUTYL ETHER	3.85	59	702480	24.9992527	ppb		100
31) 2,2-DICHLOROPROPANE	4.13	77	331119	25.0000000	ppb		100
32) CIS-1,2-DICHLOROETHENE	4.07	96	201996	25.0000000	ppb		100
33) 2-BUTANONE (MEK)	4.36	43	670390	156.8927104	ppb	#	91
34) BROMOCHLOROMETHANE	4.19	130	100473	25.0000000	ppb		100
35) TETRAHYDROFURAN	4.32	42	127755	25.0000000	ppb		95
36) CHLOROFORM	4.21	83	372105	25.0000000	ppb		100
37) CYCLOHEXANE	4.20	84	353877	25.0000000	ppb		100
39) 1,1,1-TRICHLOROETHANE	4.35	97	311547	25.0000000	ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_11.D Vial: 11
Acq On : 3 Jan 2017 2:55 pm Operator: 605
Sample : MSTD VMS 25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:20 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.32	117	264901	25.0000000	ppb		100
41)	1,1-DICHLOROPROPENE	4.41	75	302937	25.0000000	ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	851575	23.6274270	ppb		97
43)	n-Heptane	4.49	71	213920	25.0000000	ppb	#	100
44)	BENZENE	4.56	78	888239	25.0000000	ppb		100
45)	TERT-AMYL METHYL ETHER	4.58	73	653998	25.0000000	ppb		100
46)	1,2-DICHLOROETHANE	4.67	62	300397	25.0000000	ppb		100
47)	T-AMYL ALCOHOL	4.66	59	155634	125.0000000	ppb		100
49)	TRICHLOROETHENE	4.89	130	193457	25.0000000	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	429281	25.0000000	ppb		100
51)	1,2-DICHLOROPROPANE	5.20	62	162096	25.0000000	ppb		100
52)	DIBROMOMETHANE	5.15	93	117030	25.0000000	ppb		100
53)	BROMODICHLOROMETHANE	5.22	83	278290	25.0000000	ppb		100
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	738812	125.0000000	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	351116	25.0000000	ppb		100
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	1266226	124.9160469	ppb		100
59)	TOLUENE	5.76	91	903881	25.0000000	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	327428	25.0000000	ppb		100
62)	1,1,2-TRICHLOROETHANE	6.12	97	171922	25.0000000	ppb		100
63)	TETRACHLOROETHENE	6.02	164	136947	25.0000000	ppb		100
64)	1,3-DICHLOROPROPANE	6.31	76	333011	25.0000000	ppb		100
65)	2-HEXANONE	6.50	58	468466	125.0000000	ppb		100
66)	CHLORODIBROMOMETHANE	6.25	129	175123	25.0000000	ppb		100
67)	1,2-DIBROMOETHANE	6.43	107	172393	25.0000000	ppb		100
68)	CHLOROBENZENE	6.77	112	527086	25.0000000	ppb		100
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	168827	25.0000000	ppb		100
70)	ETHYLBENZENE	6.76	106	306106	25.0000000	ppb		100
71)	M&P-XYLENE	6.85	106	769445	50.0000000	ppb		100
72)	O-XYLENE	7.17	106	361902	25.0000000	ppb		100
73)	STYRENE	7.20	104	612424	25.0000000	ppb		100
74)	BROMOFORM	7.25	173	110072	25.0000000	ppb		100
75)	ISOPROPYLBENZENE	7.38	105	1014449	25.0000000	ppb		100
77)	BROMOBENZENE	7.71	77	445979	25.0000000	ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	252119	25.0000000	ppb		100
79)	1,2,3-TRICHLOROPROPANE	7.85	110	70430	25.0000000	ppb		100
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	84390	25.0000000	ppb		100
81)	N-PROPYLBENZENE	7.68	91	1231504	25.0000000	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	973942	25.0000000	ppb		100
83)	2-CHLOROTOLUENE	7.83	91	771340	25.1116340	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	701194	25.0000000	ppb		100
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	827425	25.0000000	ppb		100
86)	TERT-BUTYLBENZENE	8.07	119	686861	25.0000000	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	799545	25.0000000	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	1067571	25.0000000	ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	380566	25.0000000	ppb		100
90)	P-ISOPROPYLTOLUENE	8.30	119	863759	25.0000000	ppb		100
91)	DICYCLOPENTADIENE	8.33	66	1097401	25.0000000	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	389028	25.0000000	ppb		100
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	848001	25.0000000	ppb		100
95)	1,2-DICHLOROBENZENE	8.82	146	356317	25.0000000	ppb		100
96)	N-BUTYLBENZENE	8.64	91	866486	25.0000000	ppb		100
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	44226	25.0000000	ppb		100
98)	1,2,4-TRICHLOROBENZENE	10.02	180	210289	25.0000000	ppb		100
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	94322	25.0000000	ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_11.D Vial: 11
Acq On : 3 Jan 2017 2:55 pm Operator: 605
Sample : MSTD VMS 25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:20 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

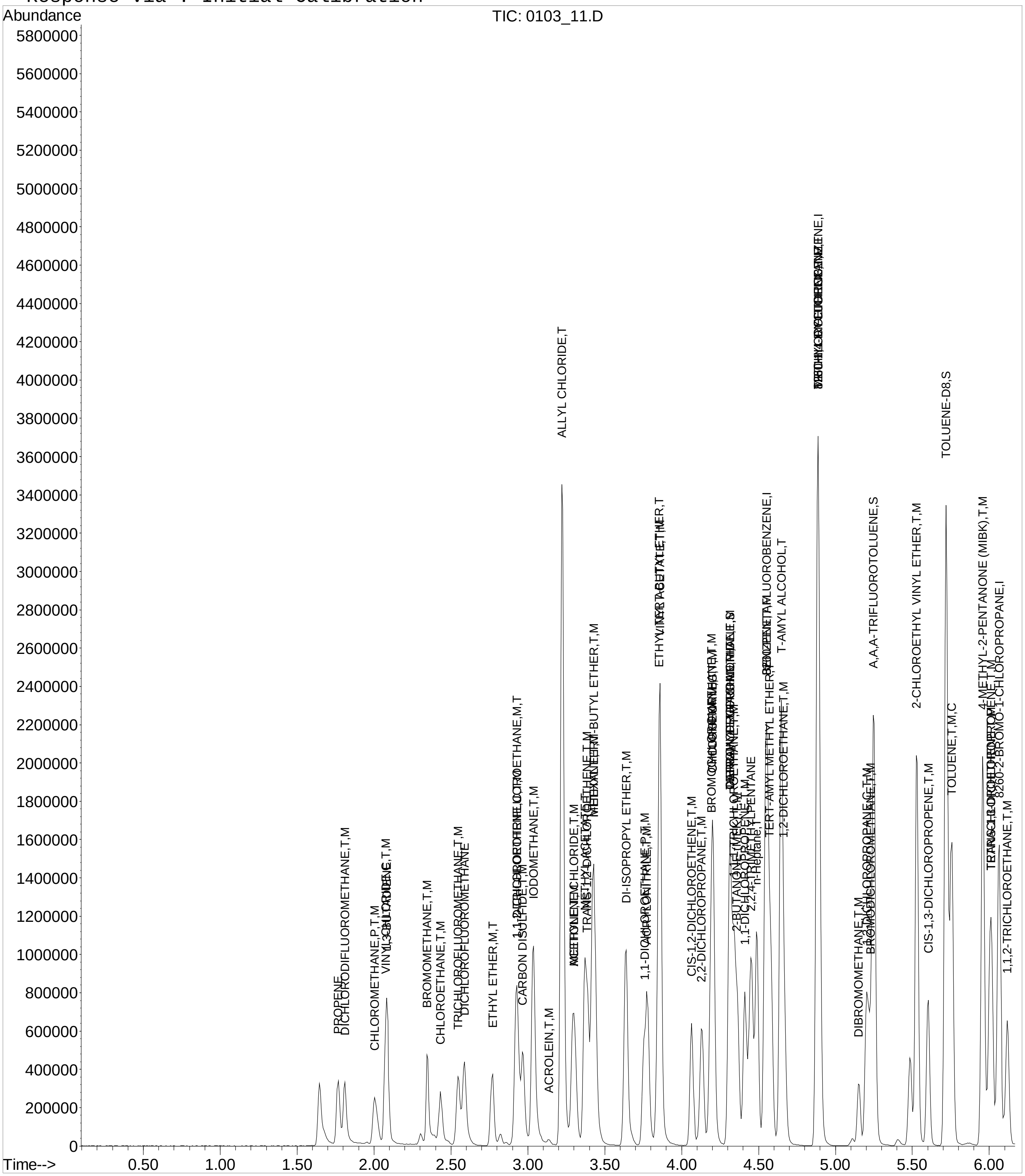
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.29	128	638430	25.0000000	ppb	100
101) 1,2,3-TRICHLOROBENZENE	10.45	180	205102	25.0000000	ppb	100
102) 1-METHYLNAPHTHALENE	11.17	142	285565	25.0000000	ppb	100
103) 2-METHYLNAPHTHALENE	11.31	142	274291	25.0000000	ppb	100

(#) = qualifier out of range (m) = manual integration
0103_11.D V808A03Q.M Wed Jan 04 10:27:10 2017 248 of 499 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_11.D Vial: 11
Acq On : 3 Jan 2017 2:55 pm Operator: 605
Sample : MSTD VMS 25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

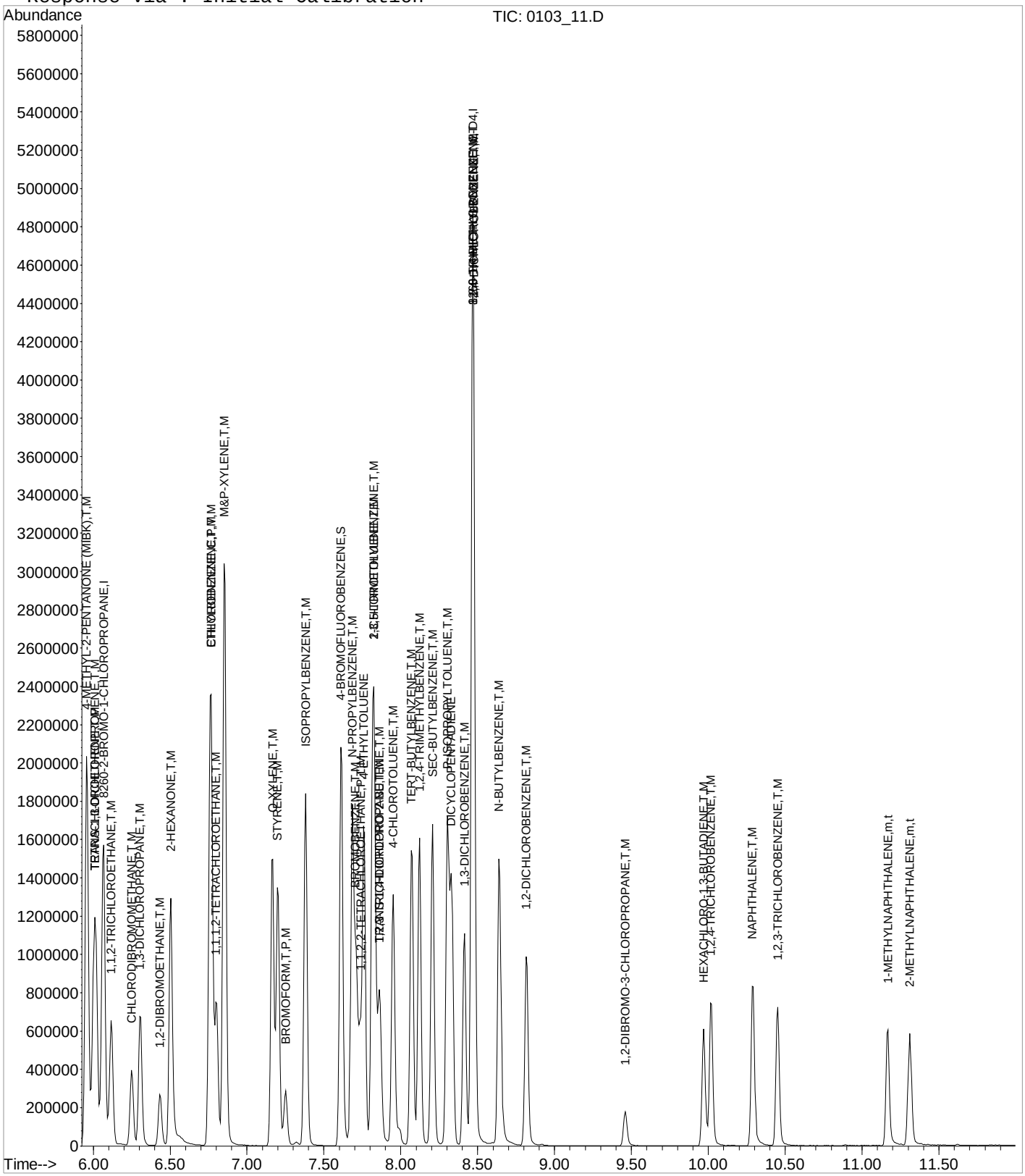
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:54 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_11.D Vial: 11
Acq On : 3 Jan 2017 2:55 pm Operator: 605
Sample : MSTD VMS 25 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:26:54 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_12.D Vial: 12
Acq On : 3 Jan 2017 3:18 pm Operator: 605
Sample : STD VMS 40 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:23 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	721547	40.00 ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1347893	40.00 ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	253965	40.00 ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	578547	40.00 ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00 ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00 ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00 ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00 ppb		-8.48
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.32	111	448118	45.8026832 ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 114.51%			
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	755755	45.7336646 ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.33%			
58) TOLUENE-D8	5.72	98	1905308	46.3654489 ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.91%#			
76) 4-BROMOFLUOROBENZENE	7.61	95	705457	45.4356491 ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 113.59%			
Target Compounds						Qvalue
4) PROPENE	1.77	41	278235	40.1506326 ppb		99
5) DICHLORODIFLUOROMETHANE	1.81	85	446911	40.3266328 ppb		99
6) CHLOROMETHANE	2.00	50	526451	40.8082829 ppb		99
7) VINYL CHLORIDE	2.07	62	510578	40.7456760 ppb		100
8) 1,3-BUTADIENE	2.09	39	361763	39.0485077 ppb		99
9) BROMOMETHANE	2.34	94	355671	43.2874319 ppb		97
10) CHLOROETHANE	2.43	64	308823	36.7424928 ppb		97
11) TRICHLOROFLUOROMETHANE	2.55	101	497311	42.1904513 ppb		99
12) DICHLOROFLUOROMETHANE	2.59	67	676469	41.4090947 ug/l		100
13) ETHYL ETHER	2.76	59	303929	39.9412143 ppb		99
14) ACROLEIN	3.14	56	30238	216.4738516 ppb		96
15) 1,1-DICHLOROETHENE	2.92	96	274119	40.9632612 ppb		100
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	282555	40.1587886 ppb		99
17) ACETONE	3.31	43	648951	200.4559265 ppb		99
18) IODOMETHANE	3.04	142	1928594	204.6435001 ppb		99
19) CARBON DISULFIDE	2.97	76	986563	40.9225191 ppb		100
20) ALLYL CHLORIDE	3.22	76	1004084	203.7171467 ppb		100
21) METHYLENE CHLORIDE	3.29	84	321353	40.8595505 ppb		97
22) METHYL ACETATE	3.37	43	1503953	200.3279779 ppb	#	100
23) ACRYLONITRILE	3.77	53	737783	202.3773448 ppb		100
24) n-HEXANE	3.42	56	361707	40.5115257 ppb		96
25) TRANS-1,2-DICHLOROETHENE	3.39	96	307330	40.9393385 ppb		99
26) METHYL TERT-BUTYL ETHER	3.43	73	1045218	39.8806808 ppb		99
27) 1,1-DICHLOROETHANE	3.76	63	659582	40.8550535 ppb		99
28) VINYL ACETATE	3.86	43	3679804	205.9960764 ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	1342168	40.3801516 ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	1140573	40.1746885 ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	540103	40.3616457 ppb		100
32) CIS-1,2-DICHLOROETHENE	4.07	96	328923	40.2928374 ppb		98
33) 2-BUTANONE (MEK)	4.36	43	1047269	242.5883027 ppb		94
34) BROMOCHLOROMETHANE	4.19	130	154633	38.0828279 ppb		99
35) TETRAHYDROFURAN	4.32	42	181061	35.0690004 ppb	#	94
36) CHLOROFORM	4.21	83	614801	40.8832524 ppb		99
37) CYCLOHEXANE	4.20	84	579644	40.5308196 ppb		99
39) 1,1,1-TRICHLOROETHANE	4.35	97	510826	40.5719422 ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_12.D Vial: 12
Acq On : 3 Jan 2017 3:18 pm Operator: 605
Sample : STD VMS 40 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:23 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.32	117	447701	41.8196934	ppb		98
41)	1,1-DICHLOROPROPENE	4.41	75	496399	40.5466479	ppb		99
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	1401900	38.4987769	ppb		97
43)	n-Heptane	4.49	71	348350	40.2940391	ppb	#	93
44)	BENZENE	4.56	78	1442035	40.1718971	ppb		100
45)	TERT-AMYL METHYL ETHER	4.58	73	1056433	39.9707150	ppb		98
46)	1,2-DICHLOROETHANE	4.67	62	486374	40.0637076	ppb		99
47)	T-AMYL ALCOHOL	4.66	59	250589	199.2066839	ppb		97
49)	TRICHLOROETHENE	4.89	130	315055	40.0401236	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	693223	39.7031330	ppb		98
51)	1,2-DICHLOROPROPANE	5.20	62	271178	41.1316032	ppb		99
52)	DIBROMOMETHANE	5.15	93	189787	39.8715150	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	456452	40.3265432	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	1212556	201.7582726	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	570459	39.9454482	ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	2026460	196.6067910	ppb		100
59)	TOLUENE	5.76	91	1496150	40.6965282	ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	542205	40.7137575	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.12	97	280110	39.6557917	ppb		100
63)	TETRACHLOROETHENE	6.02	164	230752	41.0111943	ppb		99
64)	1,3-DICHLOROPROPANE	6.30	76	548935	40.1210055	ppb		99
65)	2-HEXANONE	6.50	58	755490	196.2592407	ppb		97
66)	CHLORODIBROMOMETHANE	6.25	129	289510	40.2373941	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	278535	39.3250799	ppb		100
68)	CHLOROBENZENE	6.77	112	869185	40.1365656	ppb		100
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	271434	39.1319788	ppb	#	98
70)	ETHYLBENZENE	6.76	106	508830	40.4585517	ppb		99
71)	M&P-XYLENE	6.85	106	1260180	79.7249880	ppb		96
72)	O-XYLENE	7.17	106	600085	40.3581504	ppb		100
73)	STYRENE	7.20	104	1011081	40.1830792	ppb		100
74)	BROMOFORM	7.25	173	182648	40.3875519	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	1661305	39.8592039	ppb		99
77)	BROMOBENZENE	7.71	77	745999	40.7130185	ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	414712	40.0359827	ppb		98
79)	1,2,3-TRICHLOROPROPANE	7.85	110	117648	40.6570933	ppb		96
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	143504	41.3887667	ppb		96
81)	N-PROPYLBENZENE	7.68	91	2005257	39.6317893	ppb		99
82)	4-ETHYLTOLUENE	7.76	105	1631240	40.7656371	ppb		98
83)	2-CHLOROTOLUENE	7.83	91	1299266	41.1809775	ppb		100
84)	4-CHLOROTOLUENE	7.95	91	1180828	40.9881123	ppb		98
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	1394469	41.0194366	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	1149978	40.7502371	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	1334813	40.6337573	ppb		99
88)	SEC-BUTYLBENZENE	8.21	105	1806942	41.1961766	ppb		99
89)	1,3-DICHLOROBENZENE	8.41	146	639857	40.9225234	ppb		100
90)	P-ISOPROPYLTOLUENE	8.30	119	1457809	41.0787772	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	1815656	40.2696341	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	655971	40.8796796	ppb	#	59
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	1413805	40.4200506	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	582440	39.6294782	ppb		99
96)	N-BUTYLBENZENE	8.64	91	1442092	40.3492179	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	73252	40.1555454	ppb		99
98)	1,2,4-TRICHLOROBENZENE	10.02	180	342350	39.4691233	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	154175	39.6282286	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_12.D Vial: 12
Acq On : 3 Jan 2017 3:18 pm Operator: 605
Sample : STD VMS 40 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:23 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

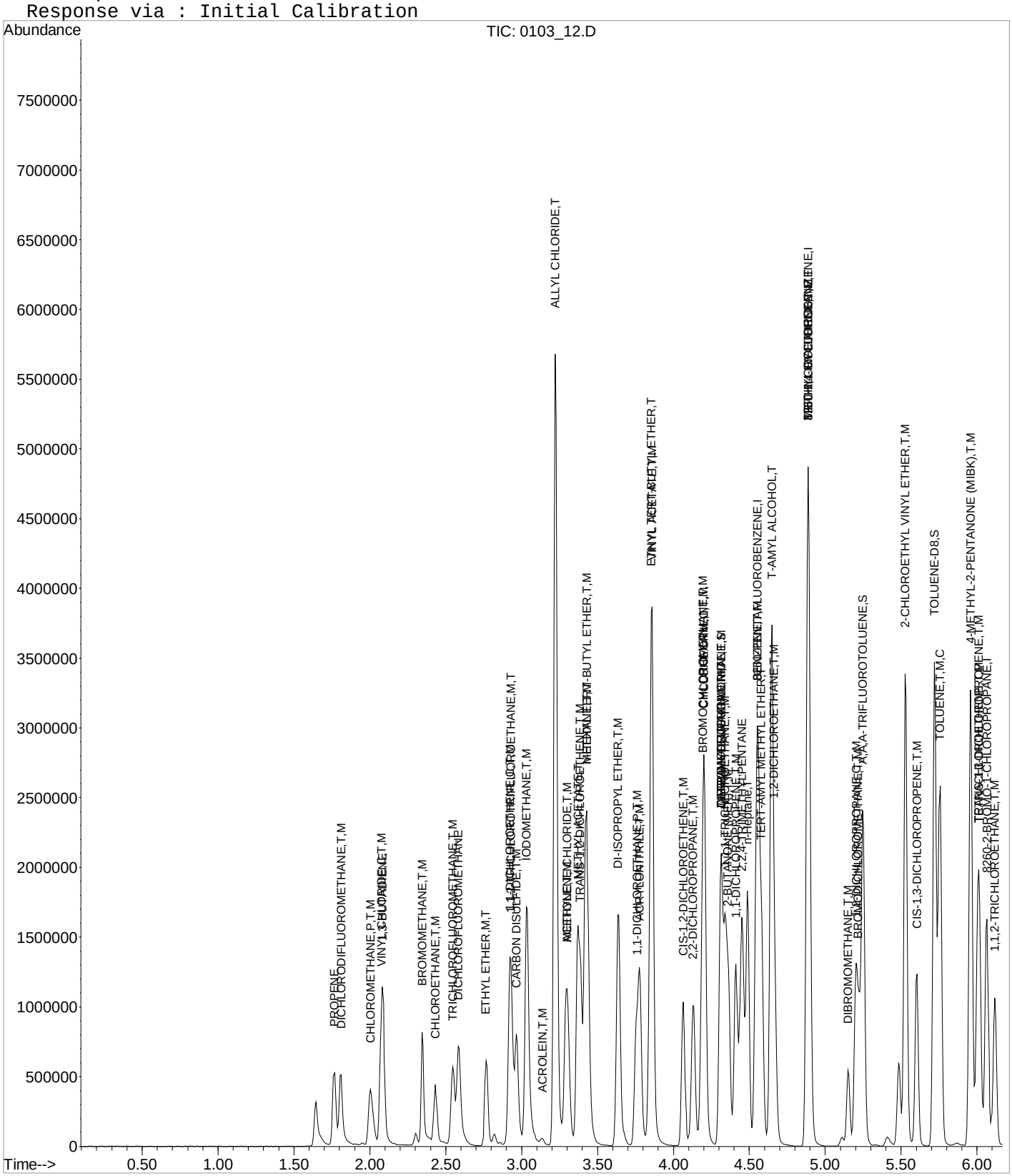
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.29	128	1028494	39.0563973	ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.45	180	326260	38.5653822	ppb	98
102) 1-METHYLNAPHTHALENE	11.17	142	486080	41.2673402	ppb	99
103) 2-METHYLNAPHTHALENE	11.31	142	440384	38.9245569	ppb	97

(#) = qualifier out of range (m) = manual integration
0103_12.D V808A03Q.M Wed Jan 04 10:27:24 2017 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_12.D Vial: 12
Acq On : 3 Jan 2017 3:18 pm Operator: 605
Sample : STD VMS 40 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

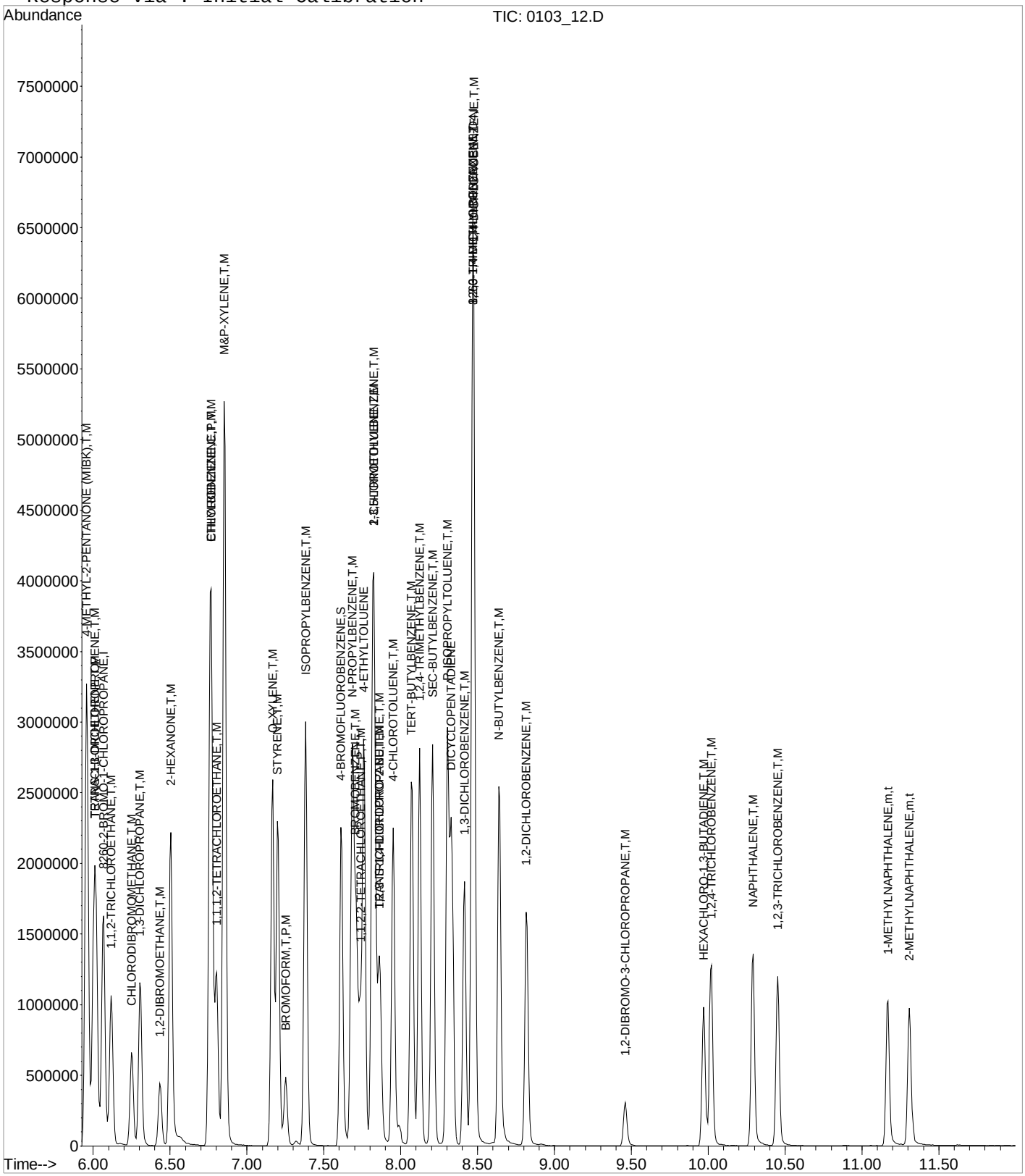
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:14 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_12.D Vial: 12
Acq On : 3 Jan 2017 3:18 pm Operator: 605
Sample : STD VMS 40 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:14 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_13.D Vial: 13
Acq On : 3 Jan 2017 3:41 pm Operator: 605
Sample : STD VMS 75 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:26 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	735521	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1369495	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	255157	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	608709	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	461588	46.2831159	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 115.71%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	776549	46.2507527	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.63%				
58) TOLUENE-D8	5.72	98	1925857	46.1262641	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.32%#				
76) 4-BROMOFLUOROBENZENE	7.61	95	725718	46.5222238	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 116.31%				
Target Compounds							Qvalue
4) PROPENE	1.77	41	520396	73.6688907	ppb		98
5) DICHLORODIFLUOROMETHANE	1.81	85	819768	72.5657063	ppb		98
6) CHLOROMETHANE	2.00	50	1054988	80.2245768	ppb		100
7) VINYL CHLORIDE	2.07	62	948885	74.2852450	ppb		100
8) 1,3-BUTADIENE	2.09	39	674263	71.3968698	ppb		98
9) BROMOMETHANE	2.35	94	686682	81.9857884	ppb		97
10) CHLOROETHANE	2.43	64	612928	71.5381970	ppb		98
11) TRICHLOROFLUOROMETHANE	2.54	101	954271	79.4195423	ppb		99
12) DICHLOROFLUOROMETHANE	2.58	67	1319013	79.2075282	ug/l		100
13) ETHYL ETHER	2.77	59	576992	74.3855302	ppb		99
14) ACROLEIN	3.13	56	64475	452.8071553	ppb		99
15) 1,1-DICHLOROETHENE	2.92	96	524872	76.9446342	ppb		99
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	530719	73.9966045	ppb		99
17) ACETONE	3.31	43	1281661	388.3736104	ppb		100
18) IODOMETHANE	3.04	142	3537204	368.2025566	ppb		99
19) CARBON DISULFIDE	2.97	76	1886710	76.7736584	ppb		99
20) ALLYL CHLORIDE	3.23	76	1830372	364.3061058	ppb		99
21) METHYLENE CHLORIDE	3.29	84	599728	74.8057703	ppb		99
22) METHYL ACETATE	3.37	43	2950244	385.5092714	ppb	#	100
23) ACRYLONITRILE	3.78	53	1428198	384.3184363	ppb		99
24) n-HEXANE	3.42	56	667880	73.3820217	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.39	96	578377	75.5816604	ppb		99
26) METHYL TERT-BUTYL ETHER	3.43	73	2011107	75.2766717	ppb		100
27) 1,1-DICHLOROETHANE	3.75	63	1236338	75.1248737	ppb		99
28) VINYL ACETATE	3.86	43	8384554	460.4513769	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	2532334	74.7397428	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	2222047	76.7807271	ppb		100
31) 2,2-DICHLOROPROPANE	4.13	77	1031525	75.6208549	ppb		99
32) CIS-1,2-DICHLOROETHENE	4.06	96	620972	74.6234245	ppb		98
33) 2-BUTANONE (MEK)	4.36	43	1969187	447.4743194	ppb		94
34) BROMOCHLOROMETHANE	4.19	130	289214	69.8740423	ppb		98
35) TETRAHYDROFURAN	4.31	42	343836	65.3310091	ppb	#	86
36) CHLOROFORM	4.20	83	1155836	75.4009188	ppb		100
37) CYCLOHEXANE	4.20	84	1097692	75.2963785	ppb		99
39) 1,1,1-TRICHLOROETHANE	4.34	97	971754	75.7144357	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_13.D Vial: 13
Acq On : 3 Jan 2017 3:41 pm Operator: 605
Sample : STD VMS 75 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:26 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	847343	77.6464447	ppb		97
41)	1,1-DICHLOROPROPENE	4.41	75	931632	74.6514081	ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	2698988	72.7110471	ppb		98
43)	n-Heptane	4.49	71	666050	75.5790397	ppb	#	100
44)	BENZENE	4.56	78	2719427	74.3179111	ppb		99
45)	TERT-AMYL METHYL ETHER	4.58	73	2014813	74.7832355	ppb		98
46)	1,2-DICHLOROETHANE	4.67	62	936082	75.6422136	ppb		99
47)	T-AMYL ALCOHOL	4.65	59	486186	379.1524794	ppb		97
49)	TRICHLOROETHENE	4.89	130	601832	75.2799421	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	1317738	74.2806768	ppb		98
51)	1,2-DICHLOROPROPANE	5.20	62	530212	79.1526946	ppb		98
52)	DIBROMOMETHANE	5.15	93	363362	75.1330037	ppb		100
53)	BROMODICHLOROMETHANE	5.22	83	872712	75.8860235	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	2342892	383.6867327	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	1099579	75.7816865	ppb		100
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	3948300	377.0210423	ppb		99
59)	TOLUENE	5.76	91	2858915	76.5382336	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	1064383	78.6630105	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.12	97	536547	75.6052866	ppb		99
63)	TETRACHLOROETHENE	6.02	164	438791	77.6213221	ppb		99
64)	1,3-DICHLOROPROPANE	6.31	76	1035198	75.3079269	ppb		100
65)	2-HEXANONE	6.50	58	1479368	382.5110590	ppb		96
66)	CHLORODIBROMOMETHANE	6.25	129	557165	77.0755240	ppb		98
67)	1,2-DIBROMOETHANE	6.43	107	531269	74.6570277	ppb		100
68)	CHLOROBENZENE	6.77	112	1696222	77.9609385	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	523587	75.1316280	ppb	#	98
70)	ETHYLBENZENE	6.76	106	986094	78.0409094	ppb		100
71)	M&P-XYLENE	6.85	106	2457710	154.7600630	ppb		95
72)	O-XYLENE	7.17	106	1157236	77.4652274	ppb		100
73)	STYRENE	7.20	104	1946546	76.9995731	ppb		100
74)	BROMOFORM	7.25	173	362407	79.7619141	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	3229934	77.1328320	ppb		99
77)	BROMOBENZENE	7.71	77	1425217	77.4180864	ppb		99
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	805707	77.4189735	ppb		98
79)	1,2,3-TRICHLOROPROPANE	7.86	110	228592	78.6283544	ppb		99
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	280355	80.4809634	ppb	#	96
81)	N-PROPYLBENZENE	7.68	91	3900927	76.7375349	ppb		100
82)	4-ETHYLTOLUENE	7.76	105	3162169	78.6552706	ppb		99
83)	2-CHLOROTOLUENE	7.83	91	2569808	81.0710197	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	2287368	79.0266728	ppb		98
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	2678328	78.4171349	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	2209059	77.9137854	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	2610306	79.0905066	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	3478100	78.9261910	ppb		100
89)	1,3-DICHLOROBENZENE	8.41	146	1218104	77.5407918	ppb		100
90)	P-ISOPROPYLTOLUENE	8.30	119	2779954	77.9688039	ppb		100
91)	DICYCLOPENTADIENE	8.33	66	3568102	78.7676261	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	1259954	74.6287995	ppb	#	29
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	2764056	75.1074642	ppb		98
95)	1,2-DICHLOROBENZENE	8.82	146	1132302	73.2248276	ppb		99
96)	N-BUTYLBENZENE	8.64	91	2827994	75.2054926	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	145064	75.5813445	ppb		96
98)	1,2,4-TRICHLOROBENZENE	10.02	180	695613	76.2226003	ppb		98
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	304780	74.4570954	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_13.D Vial: 13
Acq On : 3 Jan 2017 3:41 pm Operator: 605
Sample : STD VMS 75 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:26 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

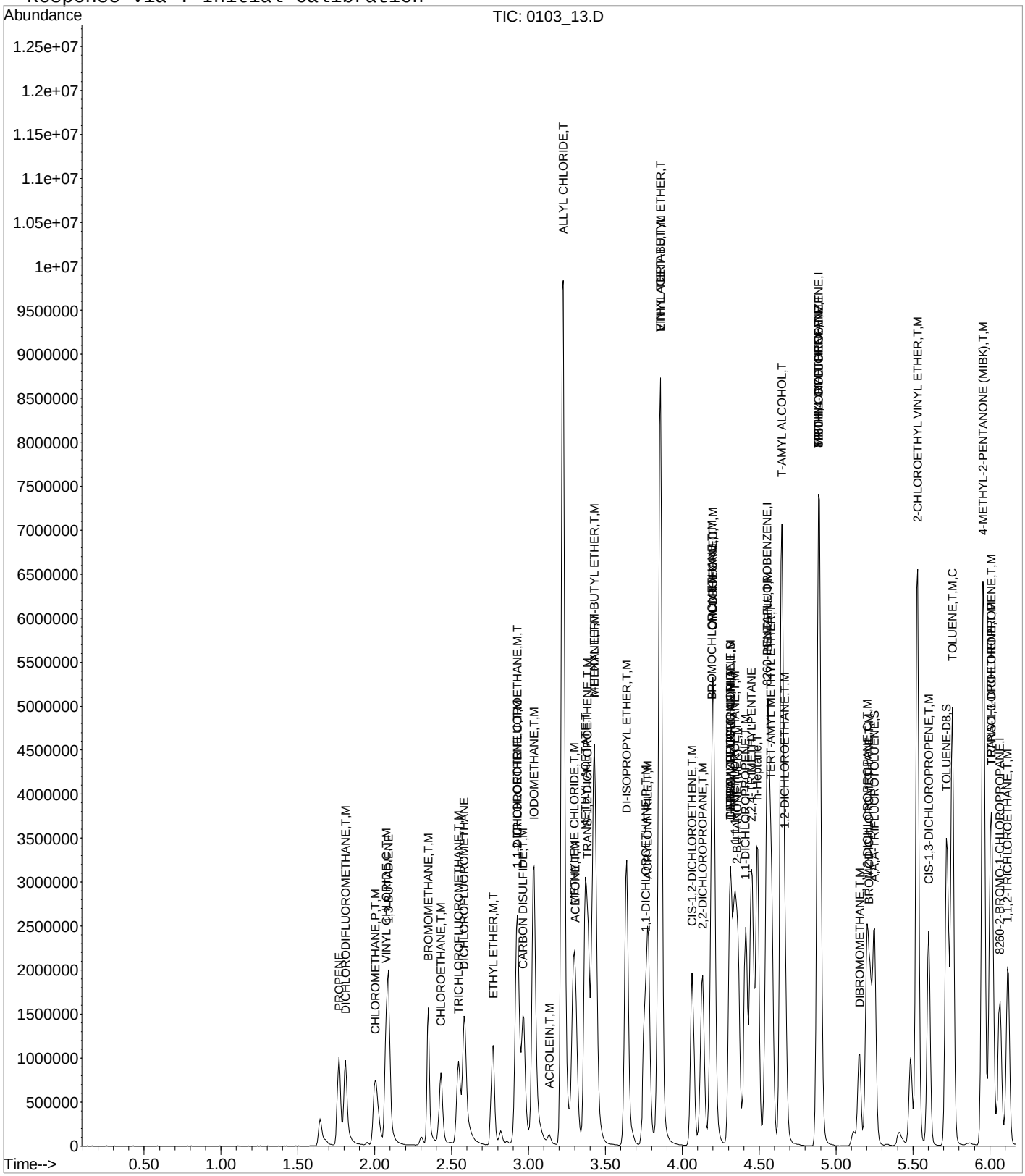
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.29	128	2046367	73.8589048	ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.45	180	637930	71.6697282	ppb	98
102) 1-METHYLNAPHTHALENE	11.17	142	895591	72.2665579	ppb	99
103) 2-METHYLNAPHTHALENE	11.31	142	841398	70.6842321	ppb	99

(#) = qualifier out of range (m) = manual integration
0103_13.D V808A03Q.M Wed Jan 04 10:27:44 2017 258 of 499 Page 3

Quantitation Report (QT Reviewed)

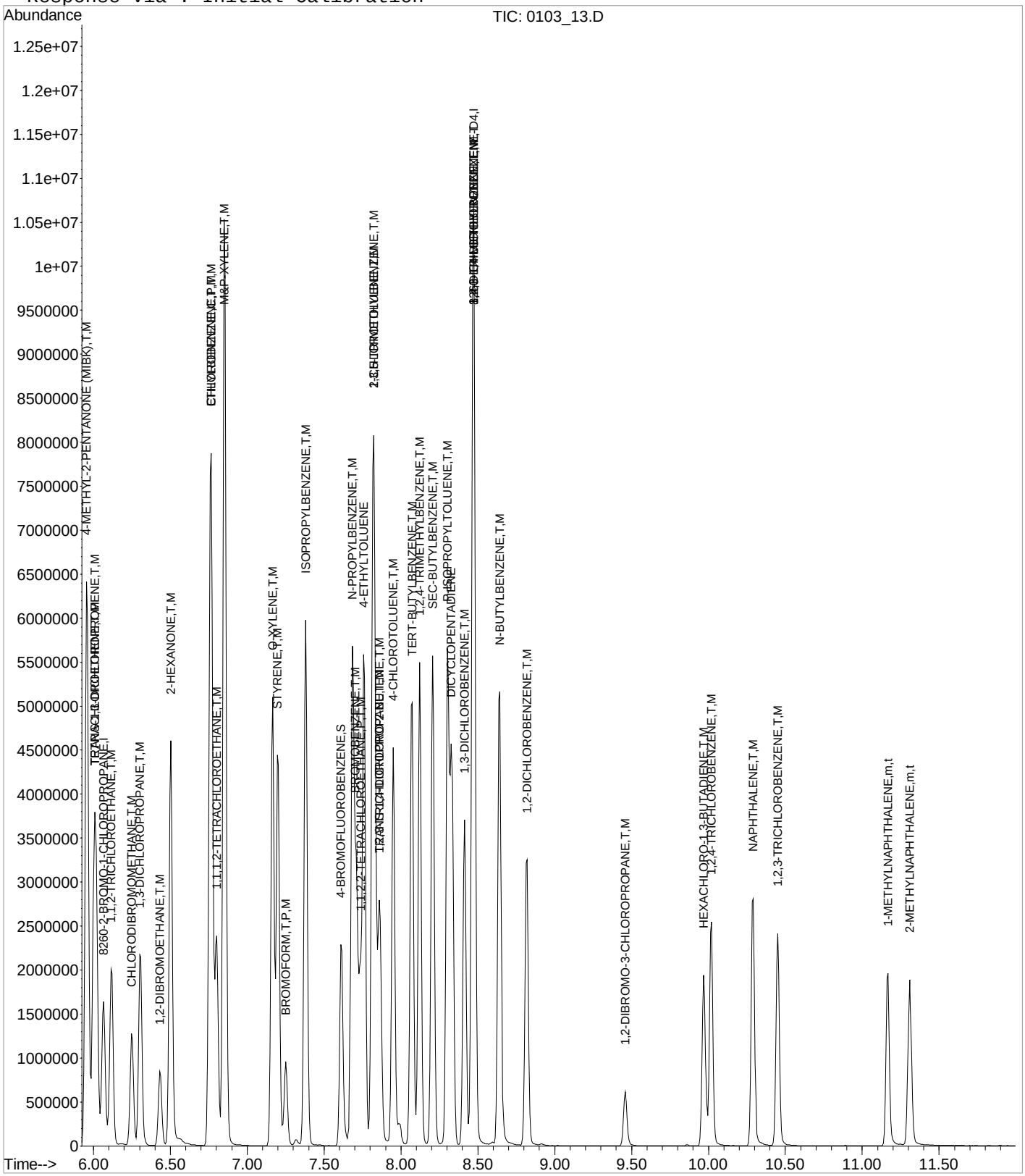
Data File : C:\MSDCHEM\1\DATA\010317\0103_13.D Vial: 13
Acq On : 3 Jan 2017 3:41 pm Operator: 605
Sample : STD VMS 75 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:27 2017
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\010317\0103_13.D Vial: 13
Acq On : 3 Jan 2017 3:41 pm Operator: 605
Sample : STD VMS 75 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:27 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_14.D Vial: 14
Acq On : 3 Jan 2017 4:04 pm Operator: 605
Sample : STD VMS 100 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:29 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	736795	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1392701	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	261177	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	620578	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	473503	47.3957305	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 118.49%				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	798827	46.7848498	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 116.96%#				
58) TOLUENE-D8	5.72	98	2006135	47.2483845	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 118.12%#				
76) 4-BROMOFLUOROBENZENE	7.61	95	761533	47.6929139	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.23%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	676339	95.5791180	ppb		99
5) DICHLORODIFLUOROMETHANE	1.81	85	1082625	95.6680504	ppb		98
6) CHLOROMETHANE	2.00	50	1568574	119.0730104	ppb		99
7) VINYL CHLORIDE	2.07	62	1259614	98.4407388	ppb		100
8) 1,3-BUTADIENE	2.09	39	883059	93.3443361	ppb		98
9) BROMOMETHANE	2.35	94	940976	112.1527347	ppb		98
10) CHLOROETHANE	2.42	64	819790	95.5167534	ppb		97
11) TRICHLOROFLUOROMETHANE	2.54	101	1275519	105.9719664	ppb		98
12) DICHLOROFLUOROMETHANE	2.58	67	1842013	110.4227307	ug/l		99
13) ETHYL ETHER	2.76	59	781460	100.5712461	ppb		99
14) ACROLEIN	3.13	56	96731	678.1660031	ppb		99
15) 1,1-DICHLOROETHENE	2.92	96	705186	103.1993645	ppb		99
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	720587	100.2956241	ppb		99
17) ACETONE	3.31	43	1739329	526.1465028	ppb		99
18) IODOMETHANE	3.03	142	4481677	465.7100953	ppb		99
19) CARBON DISULFIDE	2.96	76	2543019	103.3011358	ppb		99
20) ALLYL CHLORIDE	3.22	76	2418856	480.6019272	ppb		99
21) METHYLENE CHLORIDE	3.29	84	825433	102.7805668	ppb		100
22) METHYL ACETATE	3.37	43	3934266	513.2028009	ppb	#	100
23) ACRYLONITRILE	3.78	53	1894875	509.0163952	ppb		99
24) n-HEXANE	3.42	56	901559	98.8857687	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.39	96	793708	103.5415301	ppb		98
26) METHYL TERT-BUTYL ETHER	3.43	73	2739596	102.3670438	ppb		98
27) 1,1-DICHLOROETHANE	3.75	63	1701953	103.2386951	ppb		99
28) VINYL ACETATE	3.85	43	10176923	557.9158574	ppb		100
29) DI-ISOPROPYL ETHER	3.64	45	3496932	103.0305949	ppb		98
30) ETHYL TERT-BUTYL ETHER	3.85	59	3026360	104.3921819	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	1372031	100.4093500	ppb		100
32) CIS-1,2-DICHLOROETHENE	4.06	96	850574	102.0384064	ppb		99
33) 2-BUTANONE (MEK)	4.37	43	2638702	598.5768401	ppb		96
34) BROMOCHLOROMETHANE	4.18	130	374549	90.3344917	ppb		99
35) TETRAHYDROFURAN	4.31	42	441478	83.7385610	ppb	#	82
36) CHLOROFORM	4.20	83	1574843	102.5571851	ppb		99
37) CYCLOHEXANE	4.20	84	1469816	100.6479578	ppb		97
39) 1,1,1-TRICHLOROETHANE	4.35	97	1309049	101.8184926	ppb		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_14.D Vial: 14
Acq On : 3 Jan 2017 4:04 pm Operator: 605
Sample : STD VMS 100 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:29 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	1126221	103.0230390	ppb		99
41)	1,1-DICHLOROPROPENE	4.41	75	1265700	101.2448155	ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	3620691	97.3731714	ppb		93
43)	n-Heptane	4.49	71	895042	101.3879539	ppb	#	99
44)	BENZENE	4.55	78	3721147	101.5175954	ppb		99
45)	TERT-AMYL METHYL ETHER	4.58	73	2770729	102.6625302	ppb		97
46)	1,2-DICHLOROETHANE	4.67	62	1270585	102.4949496	ppb		100
47)	T-AMYL ALCOHOL	4.66	59	647861	504.3612301	ppb		96
49)	TRICHLOROETHENE	4.89	130	816072	100.3771917	ppb	#	99
50)	METHYL CYCLOHEXANE	4.89	83	1786428	99.0227226	ppb		99
51)	1,2-DICHLOROPROPANE	5.20	62	721887	105.9712204	ppb		99
52)	DIBROMOMETHANE	5.15	93	496581	100.9680355	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	1205654	103.0898964	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	3227843	519.8038348	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.60	75	1522678	103.1925788	ppb		99
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	5260967	493.9961760	ppb		98
59)	TOLUENE	5.75	91	3930322	103.4684368	ppb		99
60)	TRANS-1,3-DICHLOROPROPENE	6.00	75	1475646	107.2401425	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.12	97	725063	99.8142838	ppb		99
63)	TETRACHLOROETHENE	6.01	164	590676	102.0810687	ppb		100
64)	1,3-DICHLOROPROPANE	6.31	76	1441539	102.4510050	ppb		100
65)	2-HEXANONE	6.50	58	1935710	488.9682131	ppb		96
66)	CHLORODIBROMOMETHANE	6.25	129	782471	105.7483179	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	729034	100.0867441	ppb		98
68)	CHLOROBENZENE	6.77	112	2325935	104.4394314	ppb		99
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	731152	102.4977129	ppb	#	99
70)	ETHYLBENZENE	6.76	106	1378645	106.5930806	ppb		100
71)	M&P-XYLENE	6.85	106	3415501	210.1141189	ppb		99
72)	O-XYLENE	7.16	106	1596785	104.4248516	ppb		99
73)	STYRENE	7.20	104	2703275	104.4687581	ppb		99
74)	BROMOFORM	7.25	173	501122	107.7494390	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	4410771	102.9041046	ppb		99
77)	BROMOBENZENE	7.70	77	1997314	105.9937708	ppb		100
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	1092586	102.5648292	ppb		97
79)	1,2,3-TRICHLOROPROPANE	7.86	110	313867	105.4718039	ppb		97
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	394229	110.5620257	ppb	#	95
81)	N-PROPYLBENZENE	7.69	91	5327925	102.3930977	ppb		99
82)	4-ETHYLTOLUENE	7.76	105	4402438	106.9814696	ppb		99
83)	2-CHLOROTOLUENE	7.83	91	3605165	111.1124345	ppb		98
84)	4-CHLOROTOLUENE	7.95	91	3160980	106.6920261	ppb		97
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	3751790	107.3144709	ppb		99
86)	TERT-BUTYLBENZENE	8.07	119	3054474	105.2485159	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	3604486	106.6961717	ppb		100
88)	SEC-BUTYLBENZENE	8.20	105	4752444	105.3582737	ppb		99
89)	1,3-DICHLOROBENZENE	8.41	146	1701644	105.8247197	ppb		99
90)	P-ISOPROPYLTOLUENE	8.31	119	3883444	106.4076537	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	4889491	105.4500294	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	1803745	104.7949256	ppb	#	19
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	3803511	101.3757981	ppb		100
95)	1,2-DICHLOROBENZENE	8.82	146	1539858	97.6765034	ppb		98
96)	N-BUTYLBENZENE	8.64	91	3796315	99.0254136	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	189725	96.9600596	ppb		98
98)	1,2,4-TRICHLOROBENZENE	10.02	180	939866	101.0172072	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	413880	99.1761885	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_14.D Vial: 14
Acq On : 3 Jan 2017 4:04 pm Operator: 605
Sample : STD VMS 100 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:29 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

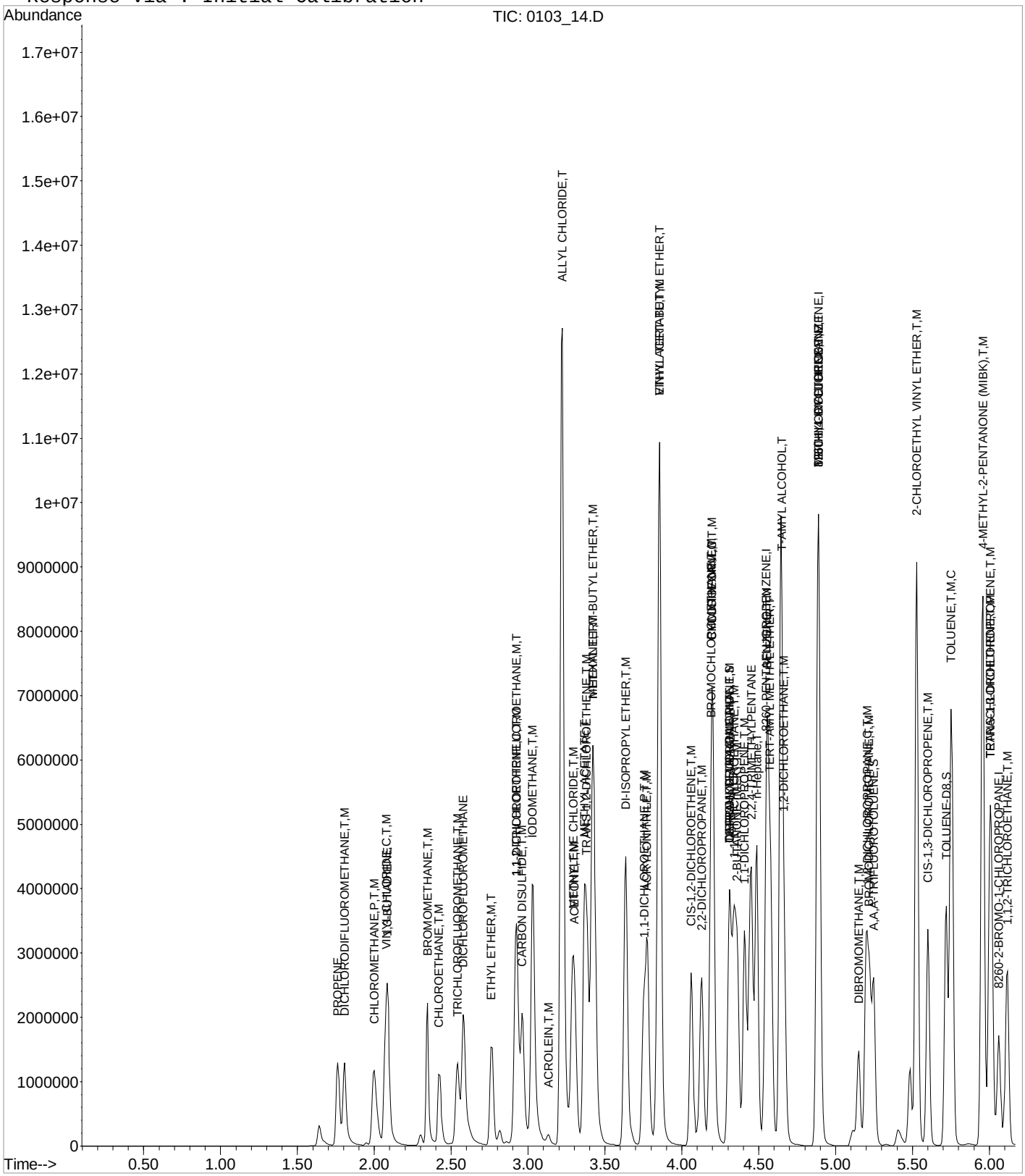
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) NAPHTHALENE	10.29	128	2723809	96.4293719 ppb	100
101) 1,2,3-TRICHLOROBENZENE	10.45	180	871209	96.0060125 ppb	99
102) 1-METHYLNAPHTHALENE	11.16	142	1198042	94.8228578 ppb	100
103) 2-METHYLNAPHTHALENE	11.31	142	1096940	90.3893555 ppb	98

(#) = qualifier out of range (m) = manual integration
0103_14.D V808A03Q.M Wed Jan 04 10:28:03 2017 263 of 499 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_14.D Vial: 14
Acq On : 3 Jan 2017 4:04 pm Operator: 605
Sample : STD VMS 100 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:28 2017 Quant Results File: V808A03Q.RES

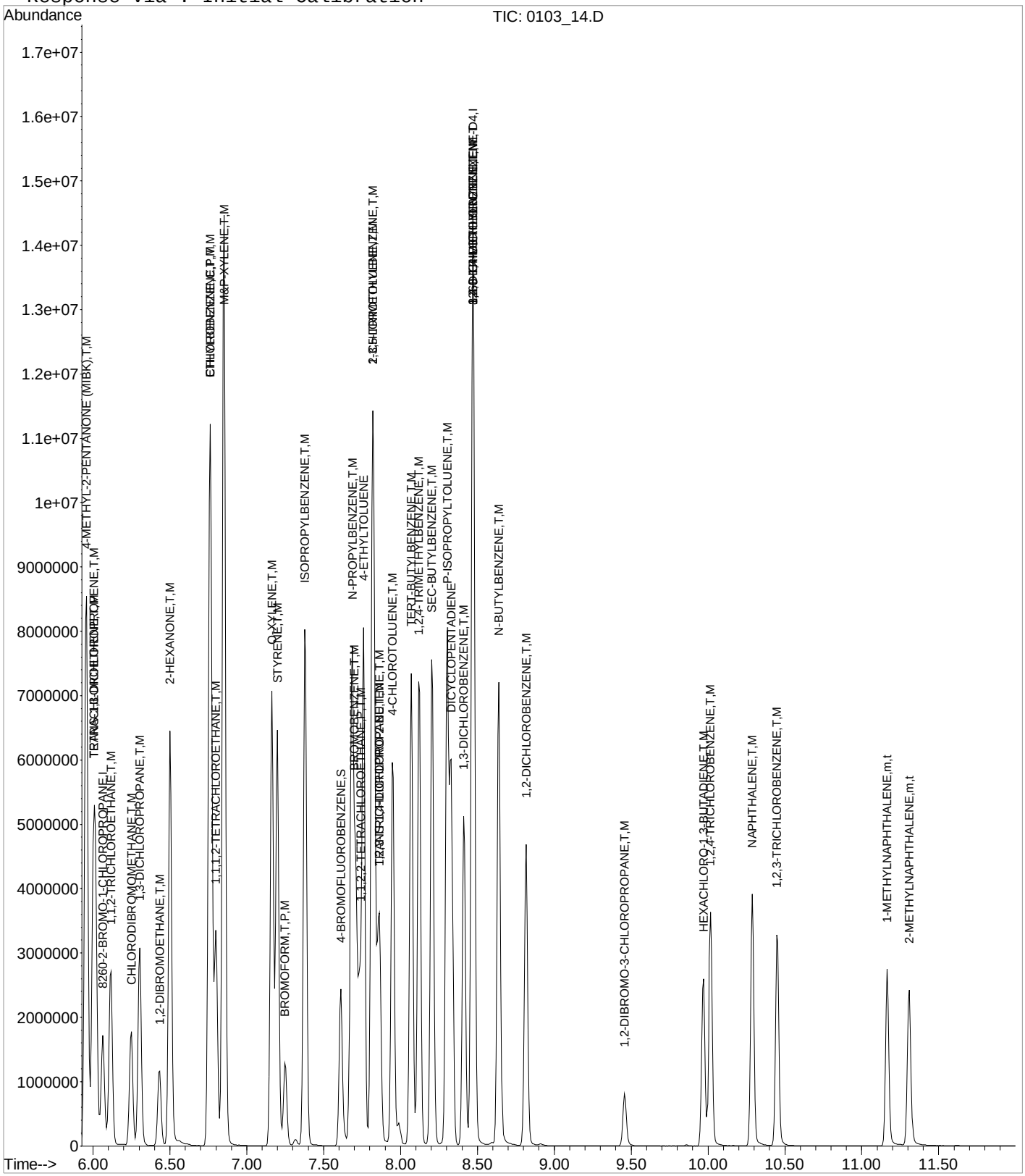
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:50 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_14.D Vial: 14
Acq On : 3 Jan 2017 4:04 pm Operator: 605
Sample : STD VMS 100 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:28 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:27:50 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_15.D Vial: 15
Acq On : 3 Jan 2017 4:26 pm Operator: 605
Sample : STD VMS 200 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:33 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	759193	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1515445	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	273390	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.47	152	690469	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
116) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.89
123) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.08
129) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.48
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	515394	50.0668559	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 125.17%#				
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	831944	44.7779602	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.94%				
58) TOLUENE-D8	5.72	98	2109360	45.6557229	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.14%				
76) 4-BROMOFLUOROBENZENE	7.61	95	802799	48.0312906	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 120.08%#				
Target Compounds							Qvalue
4) PROPENE	1.76	41	1589696	218.0254260	ppb		99
5) DICHLORODIFLUOROMETHANE	1.80	85	2307241	197.8683387	ppb		99
6) CHLOROMETHANE	1.99	50	3965768	292.1662866	ppb		100
7) VINYL CHLORIDE	2.07	62	2624844	199.0835415	ppb		100
8) 1,3-BUTADIENE	2.09	39	2175000	223.1269281	ppb		98
9) BROMOMETHANE	2.35	94	1874002	216.7683370	ppb		98
10) CHLOROETHANE	2.42	64	844167	95.4552417	ppb		96
11) TRICHLOROFLUOROMETHANE	2.53	101	2101484	169.4433868	ppb		98
12) DICHLOROFLUOROMETHANE	2.57	67	3931050	228.7014060	ug/l		100
13) ETHYL ETHER	2.77	59	1609044	200.9691859	ppb		99
14) ACROLEIN	3.14	56	399656	2719.2625983	ppb		99
15) 1,1-DICHLOROETHENE	2.92	96	1543202	219.1747871	ppb		99
16) 1,1,2-TRICHLOROTRIFLUOROET	2.93	101	1555439	210.1082092	ppb		97
17) ACETONE	3.31	43	4078560	1197.3642317	ppb		100
18) IODOMETHANE	3.03	142	8359475	843.0407689	ppb		99
19) CARBON DISULFIDE	2.96	76	5414379	213.4512090	ppb		99
20) ALLYL CHLORIDE	3.22	76	4889488	942.8299131	ppb		94
21) METHYLENE CHLORIDE	3.29	84	1778347	214.9018540	ppb		99
22) METHYL ACETATE	3.37	43	9069676	1148.1841464	ppb	#	100
23) ACRYLONITRILE	3.78	53	4196134	1093.9438435	ppb		100
24) n-HEXANE	3.42	56	1886685	200.8322771	ppb		98
25) TRANS-1,2-DICHLOROETHENE	3.39	96	1716248	217.2842963	ppb		99
26) METHYL TERT-BUTYL ETHER	3.43	73	5676082	205.8338389	ppb		99
27) 1,1-DICHLOROETHANE	3.75	63	3642131	214.4099724	ppb		99
28) VINYL ACETATE	3.85	43	17455836	928.7254455	ppb	#	93
29) DI-ISOPROPYL ETHER	3.64	45	7065952	202.0431718	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.85	59	6804514	227.7922653	ppb		99
31) 2,2-DICHLOROPROPANE	4.13	77	2905686	206.3732424	ppb		100
32) CIS-1,2-DICHLOROETHENE	4.07	96	1847090	215.0473504	ppb		97
33) 2-BUTANONE (MEK)	4.37	43	6109062	1344.9265613	ppb		93
34) BROMOCHLOROMETHANE	4.18	130	744543	174.2726452	ppb		97
35) TETRAHYDROFURAN	4.31	42	947607	174.4372222	ppb	#	86
36) CHLOROFORM	4.21	83	3453584	218.2696371	ppb		99
37) CYCLOHEXANE	4.20	84	3261647	216.7571480	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.35	97	2918343	220.2934422	ppb		99

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

Data File : C:\MSDCHEM\1\DATA\010317\0103_15.D Vial: 15
Acq On : 3 Jan 2017 4:26 pm Operator: 605
Sample : STD VMS 200 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:33 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	CARBON TETRACHLORIDE	4.31	117	2458283	218.2413746	ppb		98
41)	1,1-DICHLOROPROPENE	4.41	75	2865529	222.4545516	ppb		100
42)	2,2,4-TRIMETHYLPENTANE	4.45	57	7175115	187.2712863	ppb		93
43)	n-Heptane	4.49	71	1893661	208.1803112	ppb	#	94
44)	BENZENE	4.56	78	7985909	211.4381390	ppb		99
45)	TERT-AMYL METHYL ETHER	4.58	73	6012453	216.2041782	ppb		97
46)	1,2-DICHLOROETHANE	4.67	62	2776037	217.3293932	ppb		99
47)	T-AMYL ALCOHOL	4.66	59	1431843	1081.8068669	ppb		99
49)	TRICHLOROETHENE	4.89	130	1818284	205.5350957	ppb	#	100
50)	METHYL CYCLOHEXANE	4.89	83	4022723	204.9213379	ppb		98
51)	1,2-DICHLOROPROPANE	5.20	62	1530630	206.4936230	ppb		99
52)	DIBROMOMETHANE	5.15	93	1071197	200.1616460	ppb		99
53)	BROMODICHLOROMETHANE	5.22	83	2647017	208.0021628	ppb		99
55)	2-CHLOROETHYL VINYL ETHER	5.53	63	7760683	1148.5363081	ppb		100
56)	CIS-1,3-DICHLOROPROPENE	5.61	75	3364261	209.5307569	ppb		100
57)	4-METHYL-2-PENTANONE (MIBK	5.96	43	11641015	1004.5384547	ppb		97
59)	TOLUENE	5.76	91	8353851	202.1083184	ppb		100
60)	TRANS-1,3-DICHLOROPROPENE	6.01	75	3299838	220.3867727	ppb		99
62)	1,1,2-TRICHLOROETHANE	6.12	97	1552592	204.1862999	ppb		98
63)	TETRACHLOROETHENE	6.02	164	1330884	219.7295119	ppb		99
64)	1,3-DICHLOROPROPANE	6.31	76	3106298	210.9042093	ppb		100
65)	2-HEXANONE	6.51	58	4353532	1050.5927000	ppb		98
66)	CHLORODIBROMOMETHANE	6.25	129	1732164	223.6384789	ppb		99
67)	1,2-DIBROMOETHANE	6.43	107	1574049	206.4426049	ppb		99
68)	CHLOROBENZENE	6.77	112	5199599	223.0432478	ppb		98
69)	1,1,1,2-TETRACHLOROETHANE	6.80	133	1586824	212.5140104	ppb	#	98
70)	ETHYLBENZENE	6.76	106	3075783	227.1875666	ppb		95
71)	M&P-XYLENE	6.85	106	7628884	448.3468626	ppb		86
72)	O-XYLENE	7.17	106	3432055	214.4193453	ppb		99
73)	STYRENE	7.20	104	6078115	224.3971935	ppb		99
74)	BROMOFORM	7.25	173	1080128	221.8702520	ppb		99
75)	ISOPROPYLBENZENE	7.38	105	9469806	211.0627409	ppb		99
77)	BROMOBENZENE	7.71	77	4412074	223.6809963	ppb		99
78)	1,1,2,2-TETRACHLOROETHANE	7.73	83	2326024	208.5976087	ppb		97
79)	1,2,3-TRICHLOROPROPANE	7.86	110	688212	220.9353771	ppb		96
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	928467	248.7575068	ppb		95
81)	N-PROPYLBENZENE	7.69	91	11571871	212.4557388	ppb		99
82)	4-ETHYLTOLUENE	7.76	105	9505607	220.6721214	ppb		98
83)	2-CHLOROTOLUENE	7.83	91	8064880	237.4585059	ppb		99
84)	4-CHLOROTOLUENE	7.95	91	7038864	226.9682415	ppb		98
85)	1,3,5-TRIMETHYLBENZENE	7.82	105	8353828	228.2746052	ppb		100
86)	TERT-BUTYLBENZENE	8.07	119	6612332	217.6639485	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	8005698	226.3898758	ppb		100
88)	SEC-BUTYLBENZENE	8.21	105	10011374	212.0301535	ppb		100
89)	1,3-DICHLOROBENZENE	8.42	146	3603187	214.0708464	ppb		99
90)	P-ISOPROPYLTOLUENE	8.31	119	8563588	224.1629789	ppb		99
91)	DICYCLOPENTADIENE	8.33	66	10548674	217.3367804	ppb		100
93)	1,4-DICHLOROBENZENE	8.48	146	3880331	202.6217573	ppb	#	7
94)	1,2,3-TRIMETHYLBENZENE	8.48	105	8509811	203.8551628	ppb		99
95)	1,2-DICHLOROBENZENE	8.82	146	3356087	191.3351812	ppb		99
96)	N-BUTYLBENZENE	8.64	91	8244888	193.2953359	ppb		99
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.46	157	421159	193.4490445	ppb		96
98)	1,2,4-TRICHLOROBENZENE	10.02	180	2060670	199.0627765	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.97	225	863166	185.9000424	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_15.D Vial: 15
Acq On : 3 Jan 2017 4:26 pm Operator: 605
Sample : STD VMS 200 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:24:33 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:23:38 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

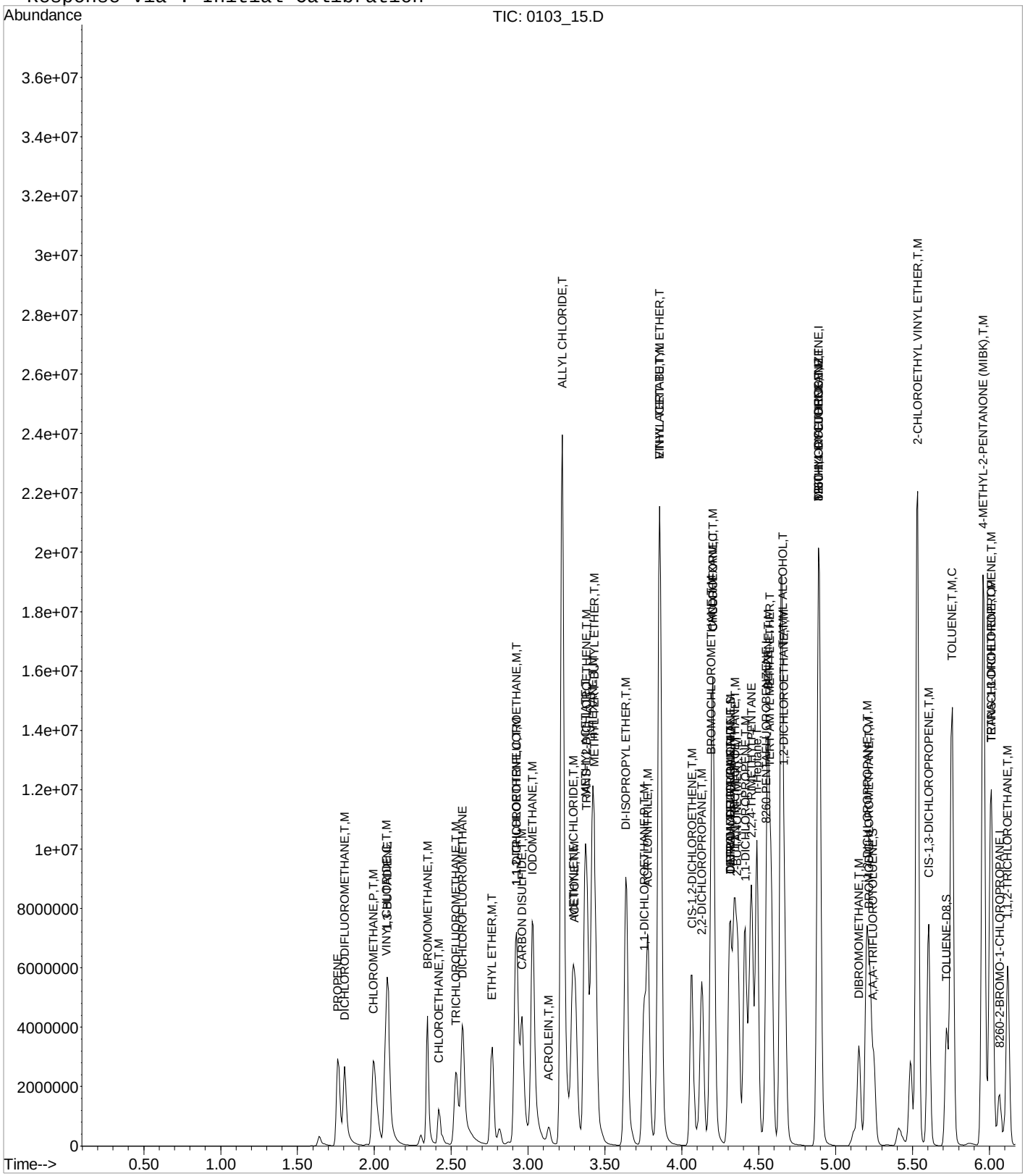
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
100) NAPHTHALENE	10.29	128	5971245	189.9983235	ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.45	180	1834271	181.6735779	ppb	99
102) 1-METHYLNAPHTHALENE	11.16	142	2669800	189.9205310	ppb	99
103) 2-METHYLNAPHTHALENE	11.31	142	2316100	171.5315110	ppb	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_15.D Vial: 15
Acq On : 3 Jan 2017 4:26 pm Operator: 605
Sample : STD VMS 200 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:28 2017 Quant Results File: V808A03Q.RES

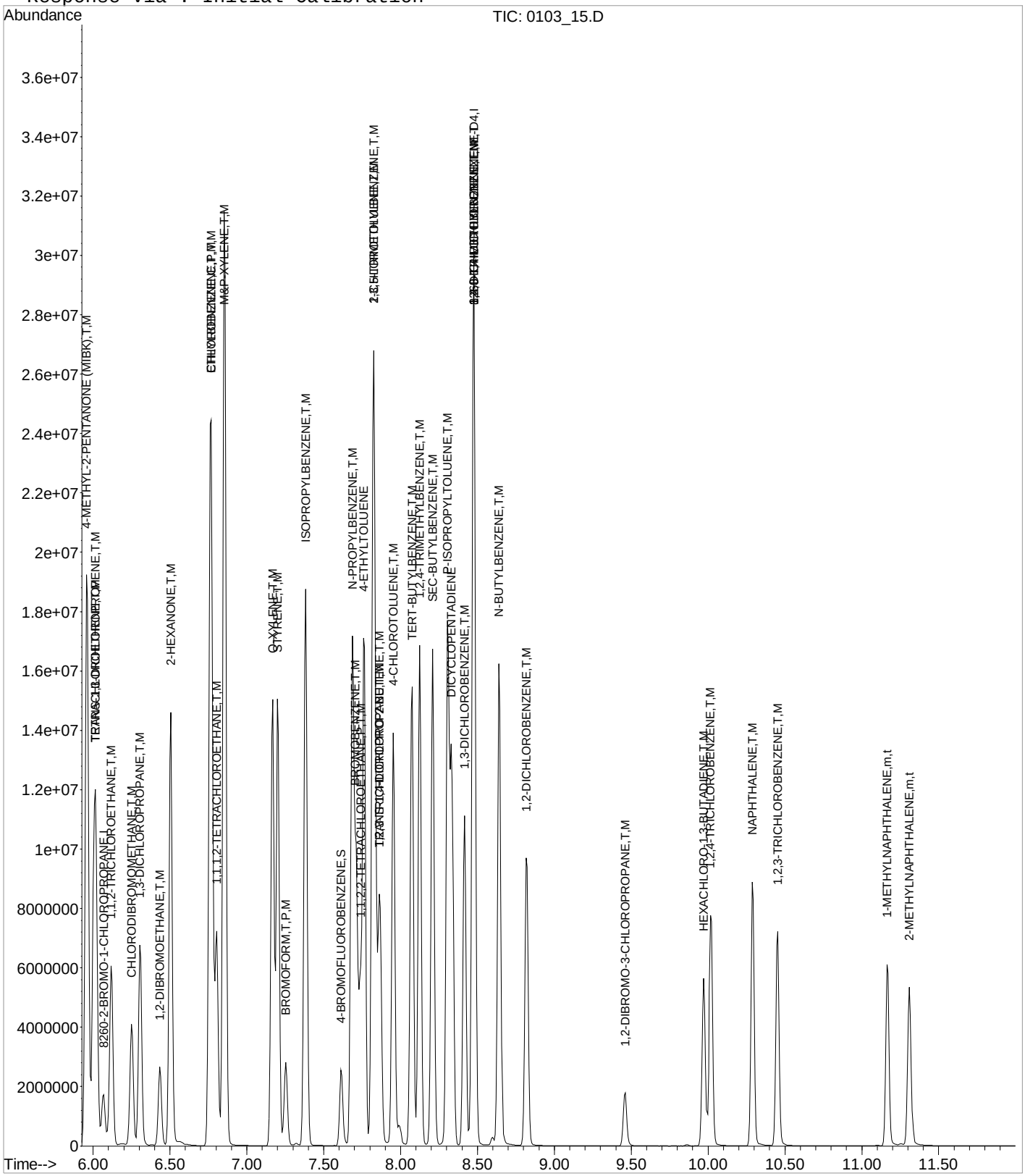
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:28:06 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_15.D Vial: 15
Acq On : 3 Jan 2017 4:26 pm Operator: 605
Sample : STD VMS 200 ppb 16L29037 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:28 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:28:06 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : STD VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:43 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

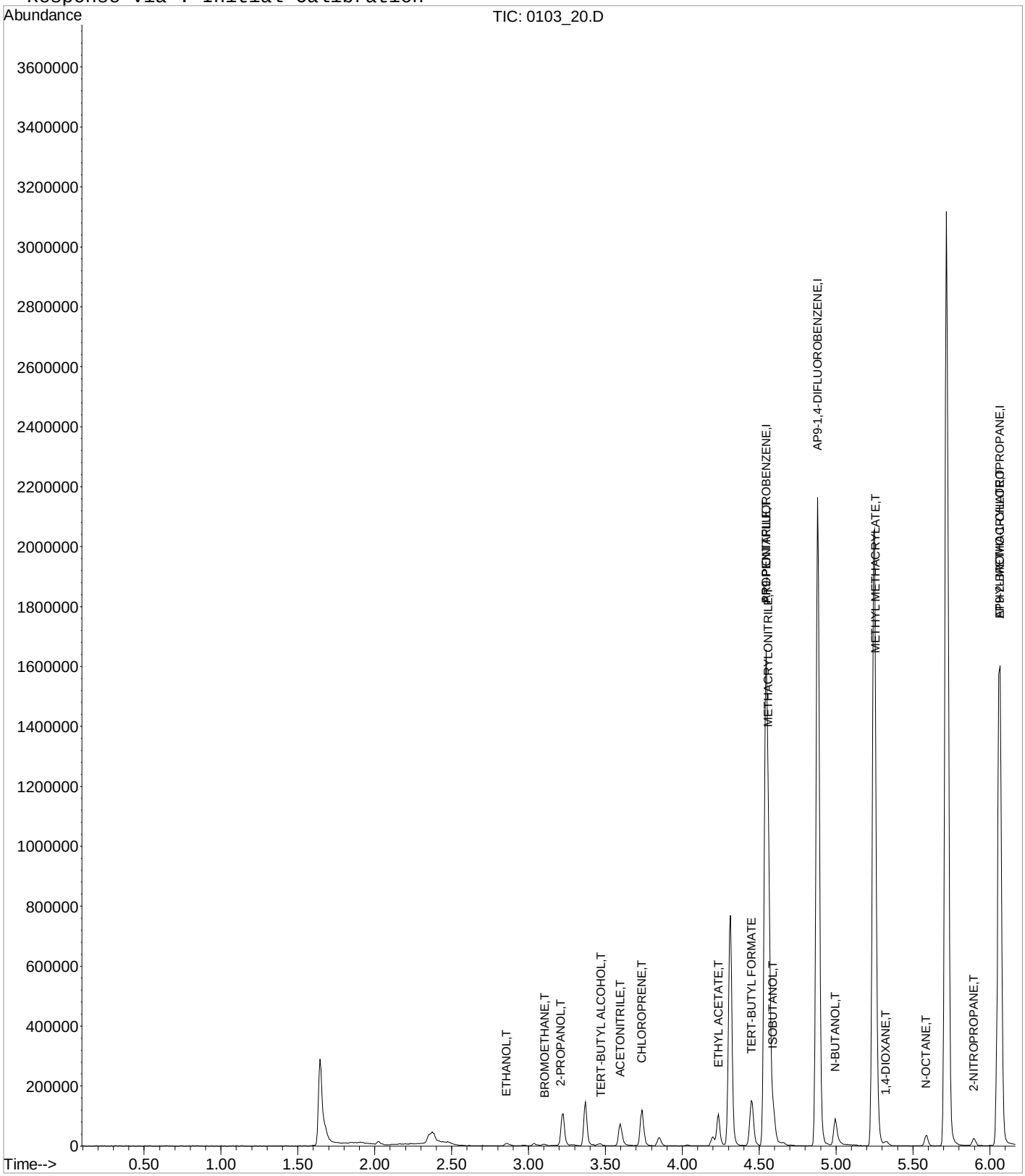
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.55	168	716794	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1312745	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	247853	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	547255	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	9754	116.9224991	ppb	#	98
106) BROMOETHANE	3.10	108	3272	0.7437751	ppb		97
107) 2-PROPANOL	3.20	45	2721	5.1860877	ppb		94
108) ACETONITRILE	3.60	41	69216	53.9660878	ppb		98
109) TERT-BUTYL ALCOHOL	3.47	59	7194	5.6763462	ppb	#	90
110) CHLOROPRENE	3.74	53	66164	4.9607040	ppb		97
111) PROPIONITRILE	4.55	54	81886	52.7653051	ppb	#	85
112) ETHYL ACETATE	4.24	43	106682	11.0472751	ppb		99
113) METHACRYLONITRILE	4.56	67	182231	51.9386813	ppb		100
114) TERT-BUTYL FORMATE	4.45	59	71411	9.5143375	ppb		96
115) ISOBUTANOL	4.59	43	57944	114.6399031	ppb	#	94
117) N-BUTANOL	5.00	56	50581	202.2046305	ppb		95
118) 2-NITROPROPANE	5.90	43	13893	4.6491694	ppb		90
119) METHYL METHACRYLATE	5.26	41	51321	4.9668922	ppb	#	1
120) 1,4-DIOXANE	5.33	88	7327	106.2675533	ppb	#	90
121) N-OCTANE	5.59	85	6301	0.9358112	ppb		97
122) 3,3-DIMETHYL-1-BUTANOL	6.47	57	839	1.6786483	ppb	#	1
124) ETHYL METHACRYLATE	6.06	69	42681	4.1257921	ppb	#	1
125) CIS-1,4-DICHLORO-2-BUTENE	7.64	53	16453	4.3295685	ppb	#	97
126) CYCLOHEXANONE	7.93	55	2242	7.7056665	ppb	#	60
127) PENTACHLOROETHANE	8.11	117	20040	4.4809237	ppb		94
128) HEXACHLOROETHANE	8.80	117	4641	0.8634961	ppb		97

(#) = qualifier out of range (m) = manual integration
0103_20.D V808A03Q.M Wed Jan 04 10:51:26 2017 271 of 499 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : STD VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:51 2017 Quant Results File: V808A03Q.RES

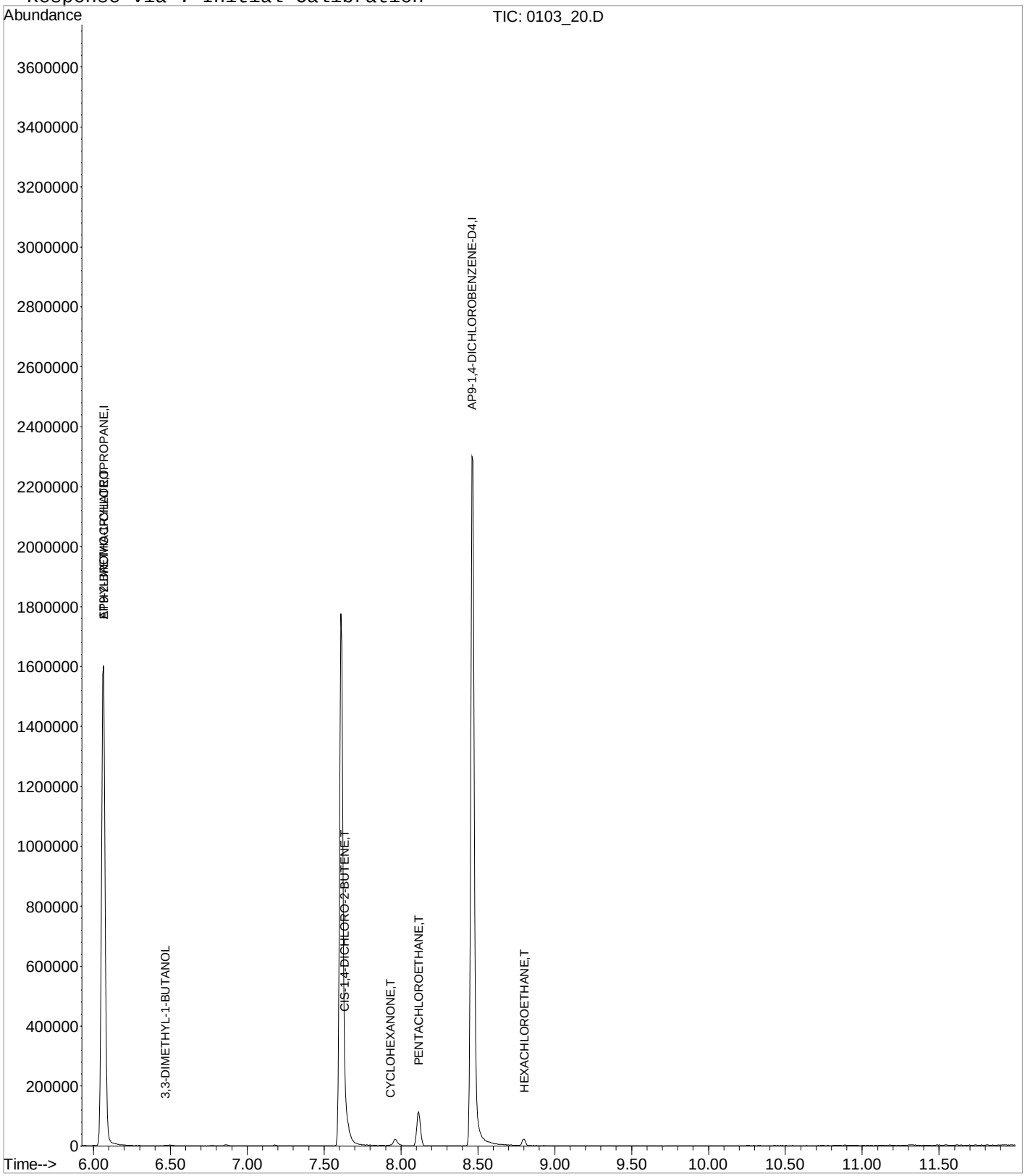
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_20.D Vial: 20
Acq On : 3 Jan 2017 6:21 pm Operator: 605
Sample : STD VMS 1a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:51 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_21.D Vial: 21
Acq On : 3 Jan 2017 6:44 pm Operator: 605
Sample : STD VMS 2.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:46 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

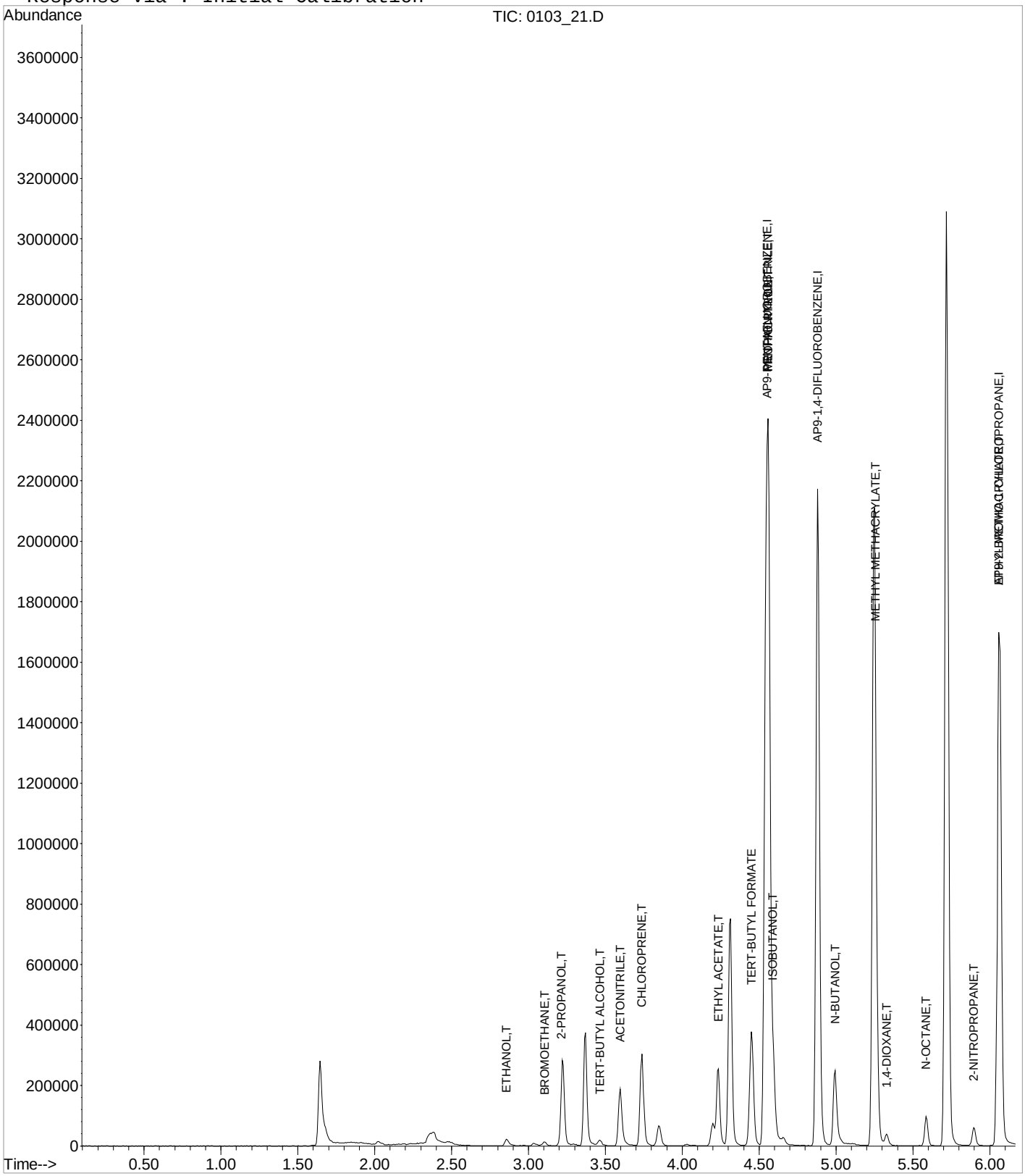
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.55	168	704442	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1324536	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	244446	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	546040	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.85	45	24404	297.6634250	ppb	#	97
106) BROMOETHANE	3.10	108	9130	2.1117778	ppb		90
107) 2-PROPANOL	3.21	45	7381	14.3144822	ppb		96
108) ACETONITRILE	3.60	41	175521	139.2491786	ppb		99
109) TERT-BUTYL ALCOHOL	3.46	59	18898	15.1727188	ppb		97
110) CHLOROPRENE	3.74	53	164774	12.5706971	ppb		100
111) PROPIONITRILE	4.55	54	211301	138.5445572	ppb		97
112) ETHYL ACETATE	4.24	43	267113	28.1454480	ppb		99
113) METHACRYLONITRILE	4.56	67	466548	135.3050832	ppb		100
114) TERT-BUTYL FORMATE	4.45	59	179854	24.3827484	ppb		98
115) ISOBUTANOL	4.59	43	140919	283.6912957	ppb	#	98
117) N-BUTANOL	5.00	56	131488	520.9624379	ppb		94
118) 2-NITROPROPANE	5.90	43	37149	12.3209181	ppb		97
119) METHYL METHACRYLATE	5.26	41	131465	12.6100373	ppb	#	65
120) 1,4-DIOXANE	5.33	88	18793	270.1389516	ppb	#	84
121) N-OCTANE	5.59	85	16047	2.3620506	ppb		99
122) 3,3-DIMETHYL-1-BUTANOL	6.47	57	9157	18.1579819	ppb		90
124) ETHYL METHACRYLATE	6.05	69	121139	11.8732055	ppb	#	1
125) CIS-1,4-DICHLORO-2-BUTENE	7.64	53	46715	12.4642778	ppb	#	97
126) CYCLOHEXANONE	7.91	55	6385	22.2508572	ppb	#	83
127) PENTACHLOROETHANE	8.11	117	49042	11.1185782	ppb		97
128) HEXACHLOROETHANE	8.80	117	12395	2.3383342	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_21.D Vial: 21
Acq On : 3 Jan 2017 6:44 pm Operator: 605
Sample : STD VMS 2.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:51 2017 Quant Results File: V808A03Q.RES

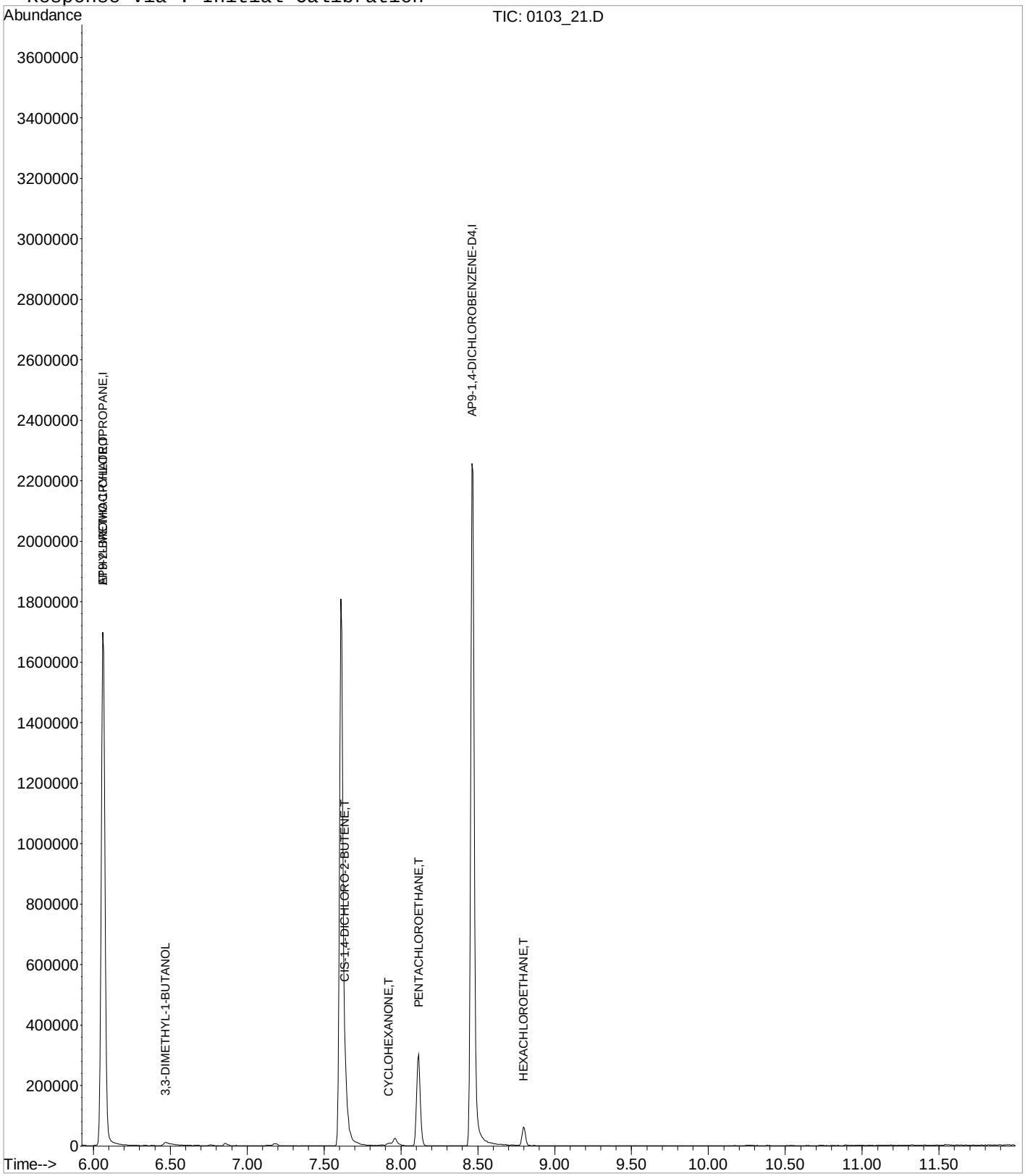
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:51:35 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_21.D Vial: 21
Acq On : 3 Jan 2017 6:44 pm Operator: 605
Sample : STD VMS 2.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:51 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:51:35 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_22.D Vial: 22
Acq On : 3 Jan 2017 7:07 pm Operator: 605
Sample : STD VMS 5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:49 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

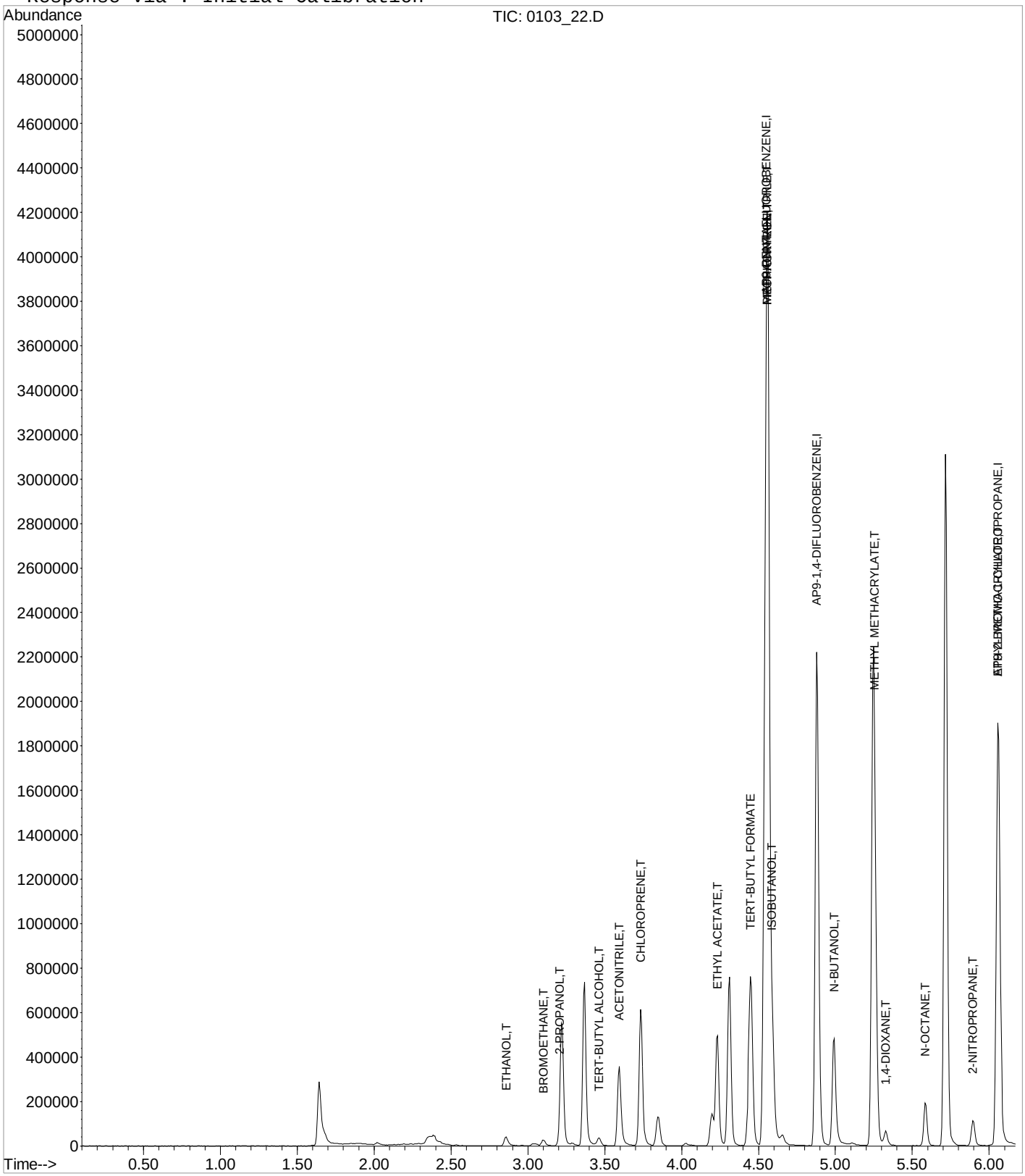
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb	-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb	-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	699021	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1304509	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	243652	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	529781	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#		
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#		
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#		
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#		
Target Compounds						Qvalue
105) ETHANOL	2.86	45	43898	539.5903954	ppb #	97
106) BROMOETHANE	3.10	108	19647	4.5796122	ppb	94
107) 2-PROPANOL	3.20	45	14094	27.5454405	ppb	98
108) ACETONITRILE	3.59	41	328706	262.8005123	ppb	99
109) TERT-BUTYL ALCOHOL	3.46	59	35010	28.3266159	ppb	100
110) CHLOROPRENE	3.73	53	335010	25.7562996	ppb	99
111) PROPIONITRILE	4.55	54	401069	265.0098584	ppb	99
112) ETHYL ACETATE	4.23	43	512199	54.3884754	ppb	100
113) METHACRYLONITRILE	4.56	67	919342	268.6890083	ppb	99
114) TERT-BUTYL FORMATE	4.45	59	364048	49.7366150	ppb	98
115) ISOBUTANOL	4.59	43	262847	533.2544657	ppb #	99
117) N-BUTANOL	4.99	56	251811	1013.0052037	ppb	99
118) 2-NITROPROPANE	5.89	43	74368	25.0437138	ppb	99
119) METHYL METHACRYLATE	5.26	41	253489	24.6877796	ppb	85
120) 1,4-DIOXANE	5.33	88	33737	492.3956917	ppb	98
121) N-OCTANE	5.58	85	32068	4.7927404	ppb	100
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	22802	45.9096512	ppb	96
124) ETHYL METHACRYLATE	6.05	69	249537	24.5375899	ppb #	23
125) CIS-1,4-DICHLORO-2-BUTENE	7.64	53	92635	24.7969820	ppb #	99
126) CYCLOHEXANONE	7.92	55	15104	52.8069125	ppb #	88
127) PENTACHLOROETHANE	8.11	117	102108	23.2248974	ppb	98
128) HEXACHLOROETHANE	8.79	117	25986	4.9182708	ppb	97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_22.D Vial: 22
Acq On : 3 Jan 2017 7:07 pm Operator: 605
Sample : STD VMS 5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

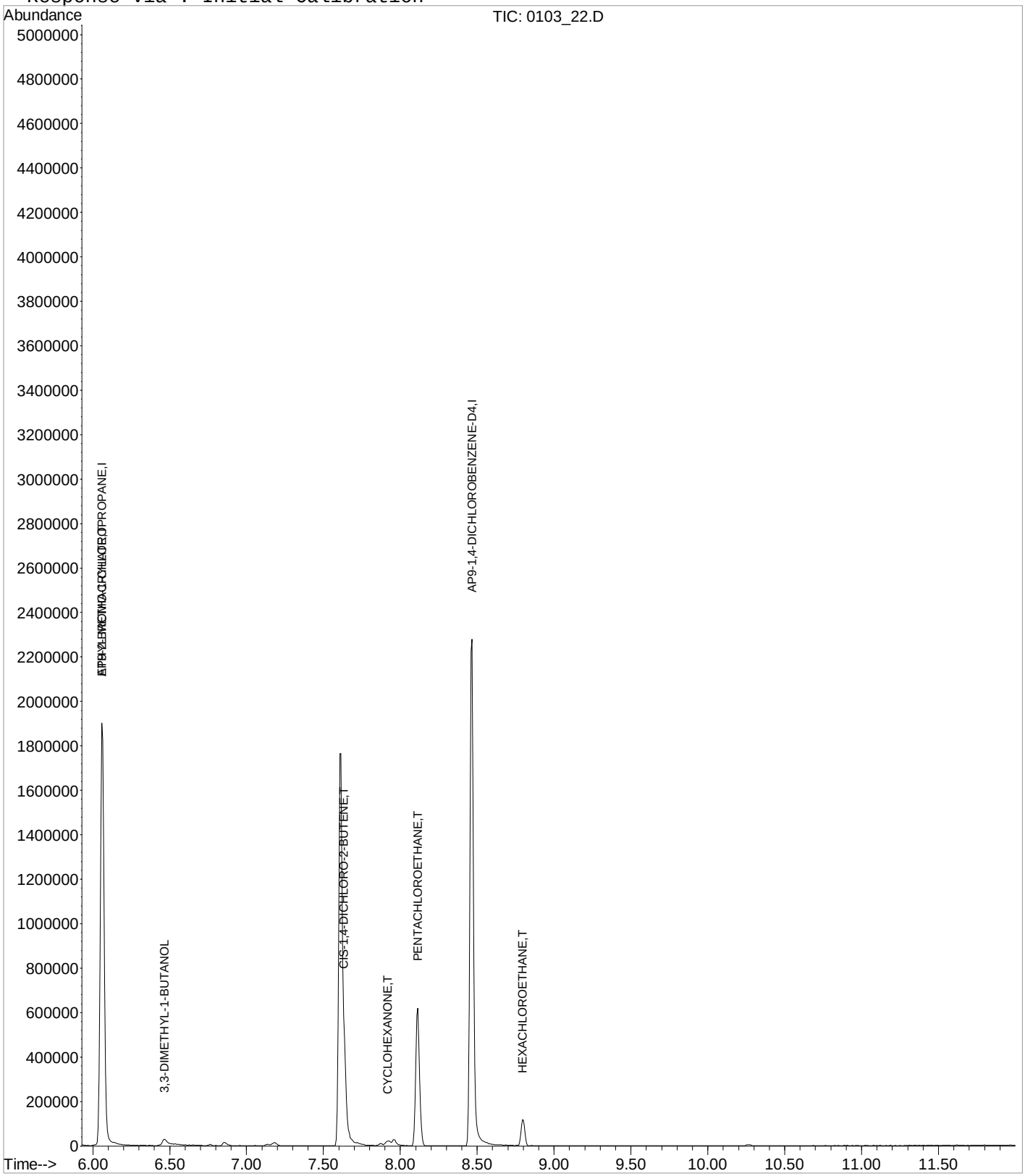
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:51:48 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_22.D Vial: 22
Acq On : 3 Jan 2017 7:07 pm Operator: 605
Sample : STD VMS 5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:51:48 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_23.D Vial: 23
Acq On : 3 Jan 2017 7:29 pm Operator: 605
Sample : STD VMS 7.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:52 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

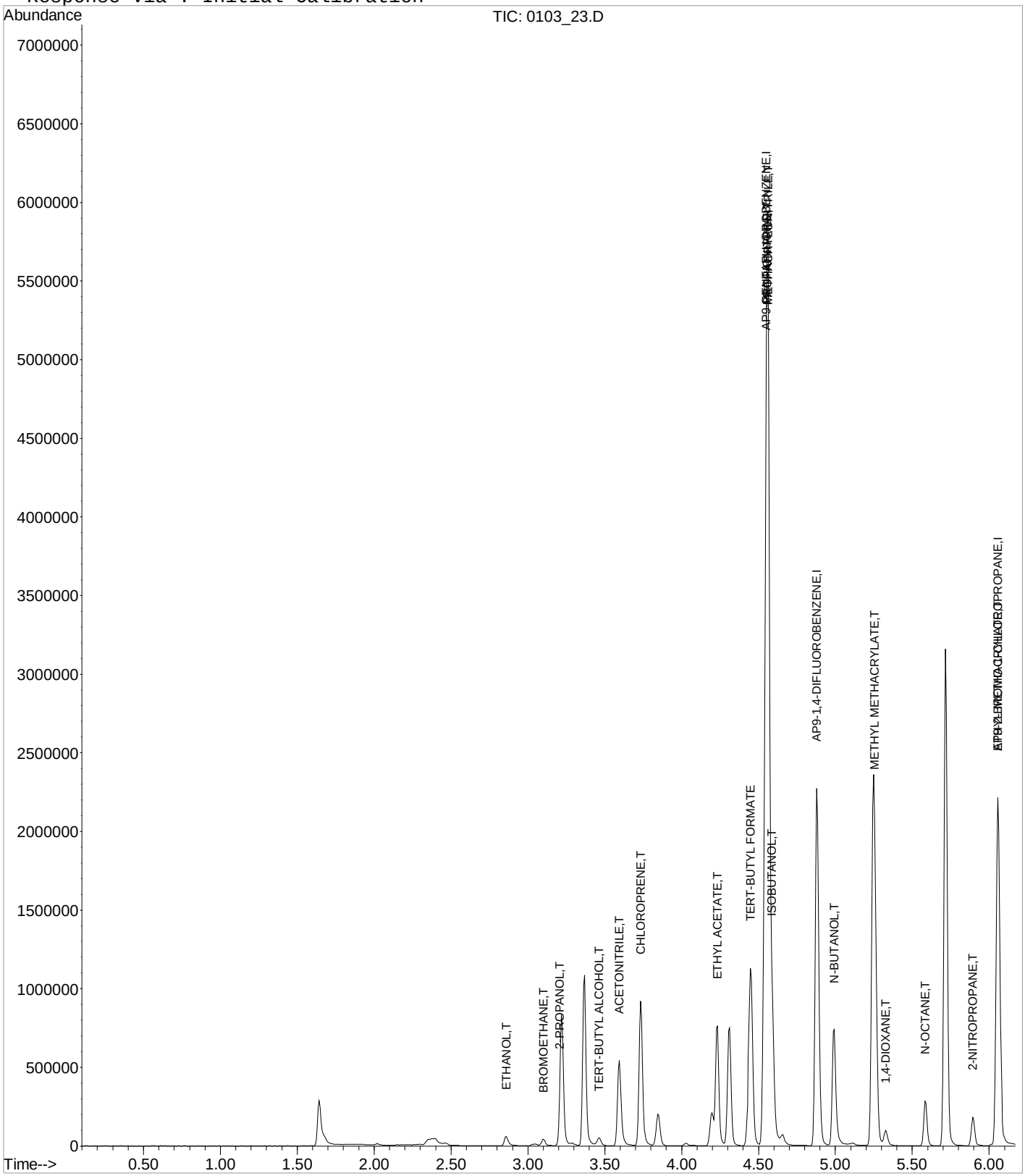
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	716481	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1316873	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	251313	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	547099	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	66000	791.4964241	ppb		95
106) BROMOETHANE	3.10	108	30717	6.9854889	ppb		96
107) 2-PROPANOL	3.20	45	20807	39.6744091	ppb		96
108) ACETONITRILE	3.59	41	504022	393.1457764	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	49964	39.4407648	ppb		99
110) CHLOROPRENE	3.73	53	487585	36.5730835	ppb		100
111) PROPIONITRILE	4.55	54	601679	387.8763800	ppb		98
112) ETHYL ACETATE	4.23	43	774335	80.2199882	ppb		100
113) METHACRYLONITRILE	4.56	67	1342425	382.7792398	ppb		100
114) TERT-BUTYL FORMATE	4.45	59	553742	73.8092148	ppb		99
115) ISOBUTANOL	4.59	43	400838	793.3885126	ppb	#	100
117) N-BUTANOL	4.99	56	382821	1525.5832729	ppb		99
118) 2-NITROPROPANE	5.89	43	112344	37.4770760	ppb		100
119) METHYL METHACRYLATE	5.26	41	377933	36.4620359	ppb		94
120) 1,4-DIOXANE	5.33	88	52539	759.6136705	ppb		96
121) N-OCTANE	5.58	85	48349	7.1581816	ppb		98
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	36410	72.6197780	ppb		95
124) ETHYL METHACRYLATE	6.05	69	379133	36.1446120	ppb	#	70
125) CIS-1,4-DICHLORO-2-BUTENE	7.64	53	140632	36.4974818	ppb	#	99
126) CYCLOHEXANONE	7.92	55	23402	79.3244008	ppb		92
127) PENTACHLOROETHANE	8.11	117	157818	34.8021117	ppb		98
128) HEXACHLOROETHANE	8.80	117	39102	7.1750842	ppb		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_23.D Vial: 23
Acq On : 3 Jan 2017 7:29 pm Operator: 605
Sample : STD VMS 7.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

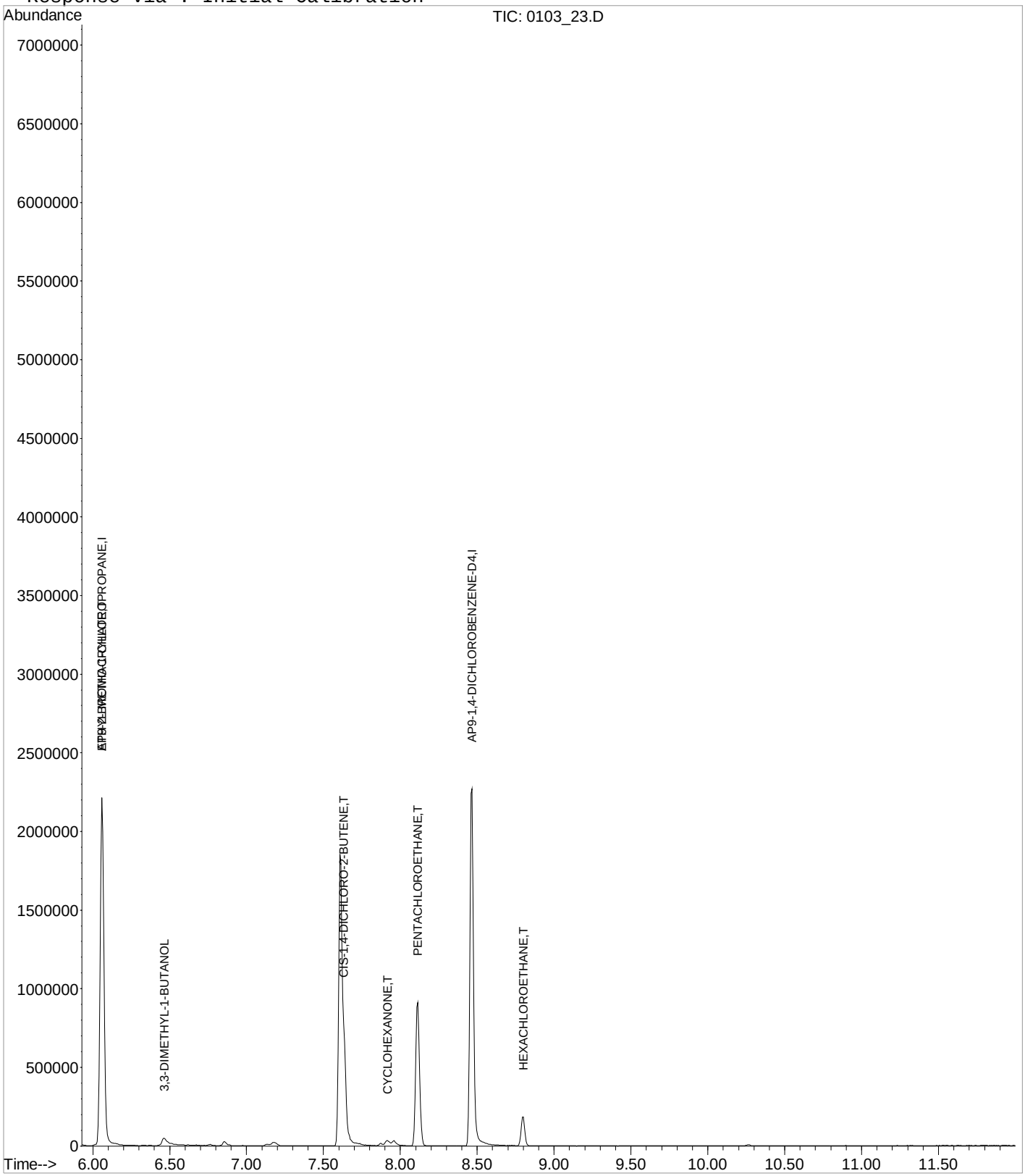
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:05 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_23.D Vial: 23
Acq On : 3 Jan 2017 7:29 pm Operator: 605
Sample : STD VMS 7.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:05 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_24.D Vial: 24
Acq On : 3 Jan 2017 7:52 pm Operator: 605
Sample : MSTD VMS 10a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:55 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

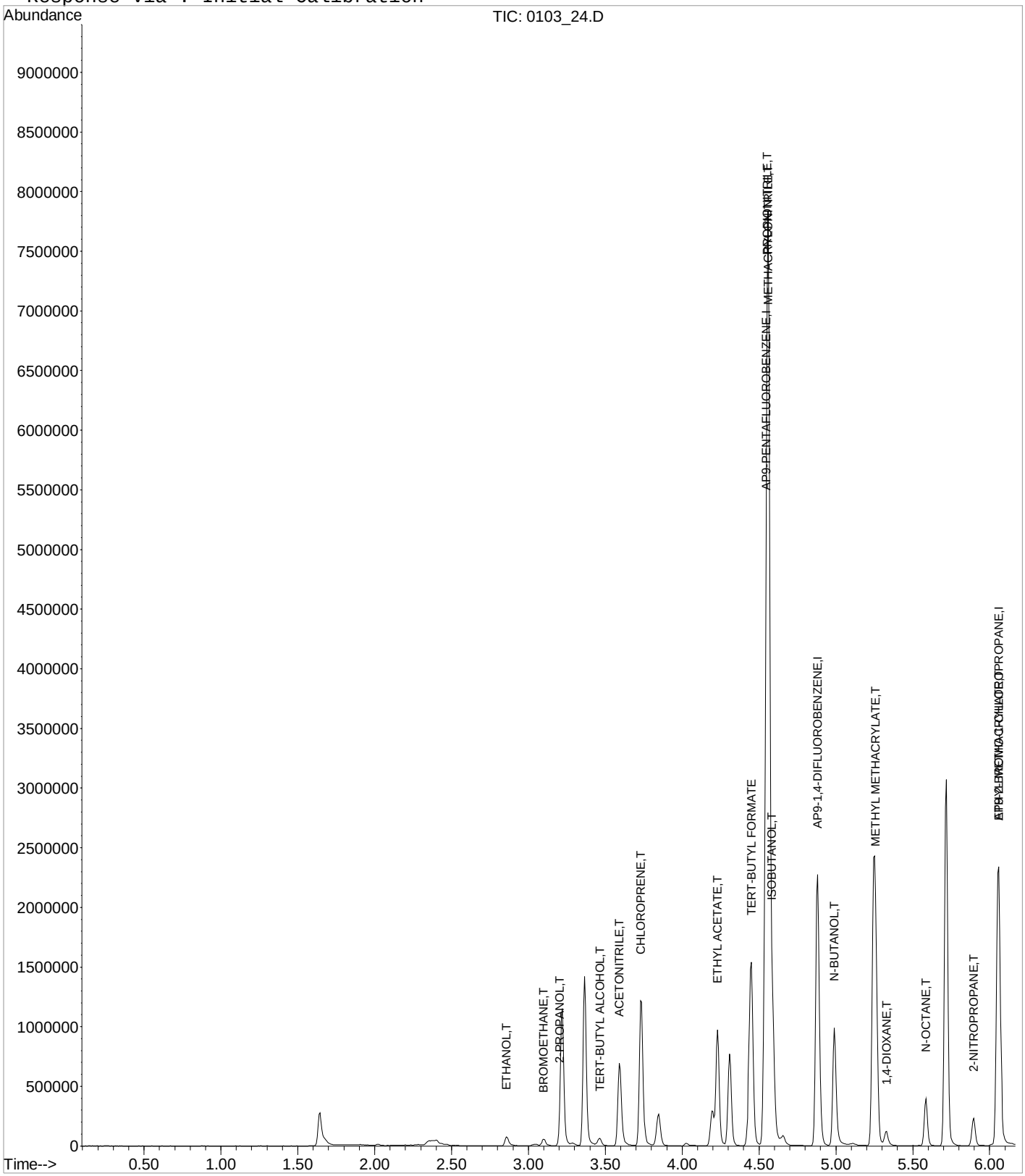
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	716667	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1279738	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	242593	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	535146	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	83408	1000.0000000	ppb		100
106) BROMOETHANE	3.10	108	43984	10.0000000	ppb		100
107) 2-PROPANOL	3.20	45	26788	51.0656144	ppb		99
108) ACETONITRILE	3.59	41	641178	500.0000000	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	63357	50.0000000	ppb		100
110) CHLOROPRENE	3.73	53	666763	50.0000000	ppb		100
111) PROPIONITRILE	4.55	54	773753	498.6755744	ppb		100
112) ETHYL ACETATE	4.23	43	965515	100.0000000	ppb		100
113) METHACRYLONITRILE	4.56	67	1753979	500.0000000	ppb		100
114) TERT-BUTYL FORMATE	4.45	59	749051	99.8163717	ppb		100
115) ISOBUTANOL	4.59	43	505354	1000.0000000	ppb	#	100
117) N-BUTANOL	4.99	56	487716	2000.0000000	ppb		100
118) 2-NITROPROPANE	5.90	43	145657	50.0000000	ppb		100
119) METHYL METHACRYLATE	5.26	41	503641	50.0000000	ppb		100
120) 1,4-DIOXANE	5.33	88	67215	1000.0000000	ppb		100
121) N-OCTANE	5.59	85	65639	10.0000000	ppb		100
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	47940	98.3909367	ppb		95
124) ETHYL METHACRYLATE	6.05	69	506006	49.9740257	ppb		100
125) CIS-1,4-DICHLORO-2-BUTENE	7.63	53	185569	49.8908455	ppb	#	100
126) CYCLOHEXANONE	7.91	55	28478	100.0000000	ppb		100
127) PENTACHLOROETHANE	8.11	117	218869	50.0000000	ppb		100
128) HEXACHLOROETHANE	8.80	117	52606	10.0000000	ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_24.D Vial: 24
Acq On : 3 Jan 2017 7:52 pm Operator: 605
Sample : MSTD VMS 10a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

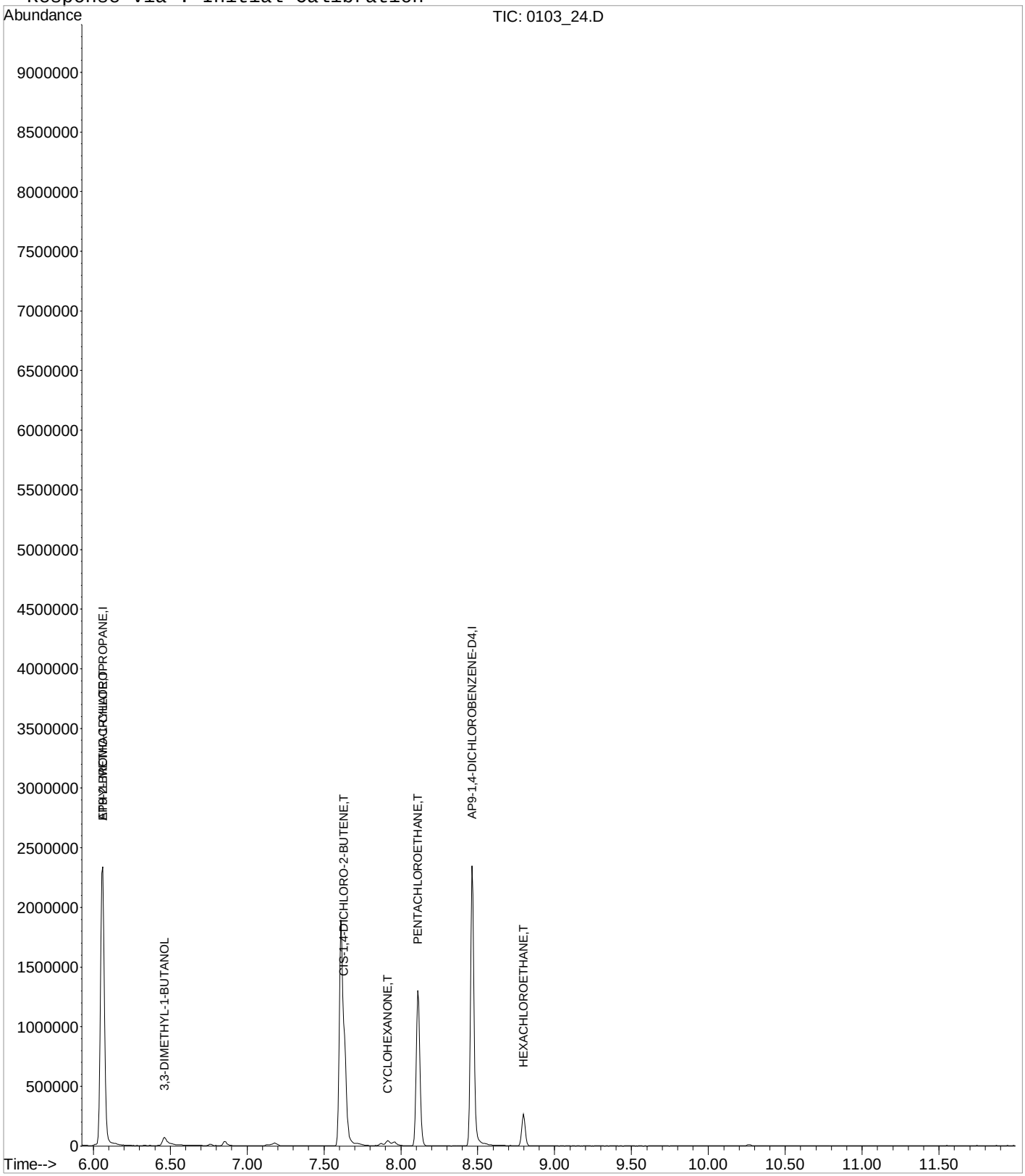
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:18 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_24.D Vial: 24
Acq On : 3 Jan 2017 7:52 pm Operator: 605
Sample : MSTD VMS 10a ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:18 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_25.D Vial: 25
Acq On : 3 Jan 2017 8:15 pm Operator: 605
Sample : STD VMS 12.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:50:58 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

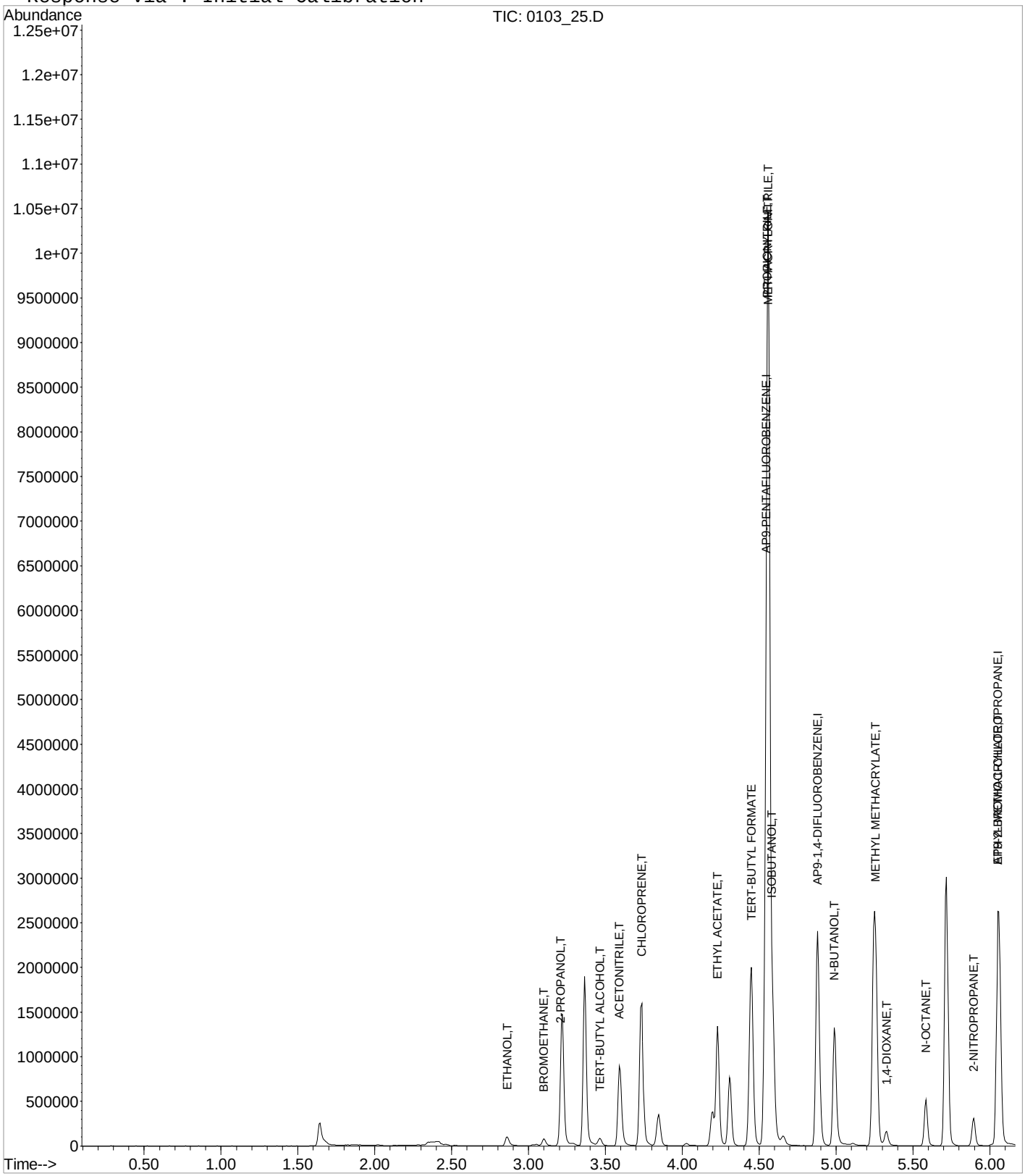
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	714646	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1306260	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	247701	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	533067	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	112361	1350.9346098	ppb		94
106) BROMOETHANE	3.10	108	59293	13.5187066	ppb		95
107) 2-PROPANOL	3.20	45	34968	66.8475515	ppb		96
108) ACETONITRILE	3.59	41	842675	658.9886604	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	84590	66.9454190	ppb		97
110) CHLOROPRENE	3.74	53	884521	66.5170684	ppb		99
111) PROPIONITRILE	4.55	54	1030170	665.8111888	ppb		99
112) ETHYL ACETATE	4.23	43	1297781	134.7934616	ppb		100
113) METHACRYLONITRILE	4.56	67	2326965	665.2148046	ppb		99
114) TERT-BUTYL FORMATE	4.45	59	974710	130.2543551	ppb		99
115) ISOBUTANOL	4.59	43	680278	1349.9483693	ppb	#	99
117) N-BUTANOL	4.99	56	644390	2588.8281497	ppb		97
118) 2-NITROPROPANE	5.90	43	193250	64.9904559	ppb		99
119) METHYL METHACRYLATE	5.26	41	653208	63.5319023	ppb		97
120) 1,4-DIOXANE	5.33	88	90399	1317.6160035	ppb		99
121) N-OCTANE	5.58	85	84678	12.6386321	ppb		99
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	71730	144.2279179	ppb		97
124) ETHYL METHACRYLATE	6.05	69	666683	64.4849779	ppb		83
125) CIS-1,4-DICHLORO-2-BUTENE	7.63	53	244516	64.3832988	ppb	#	99
126) CYCLOHEXANONE	7.92	55	36490	125.4916654	ppb	#	84
127) PENTACHLOROETHANE	8.11	117	286541	64.1095942	ppb		99
128) HEXACHLOROETHANE	8.80	117	70360	13.0990879	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_25.D Vial: 25
Acq On : 3 Jan 2017 8:15 pm Operator: 605
Sample : STD VMS 12.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

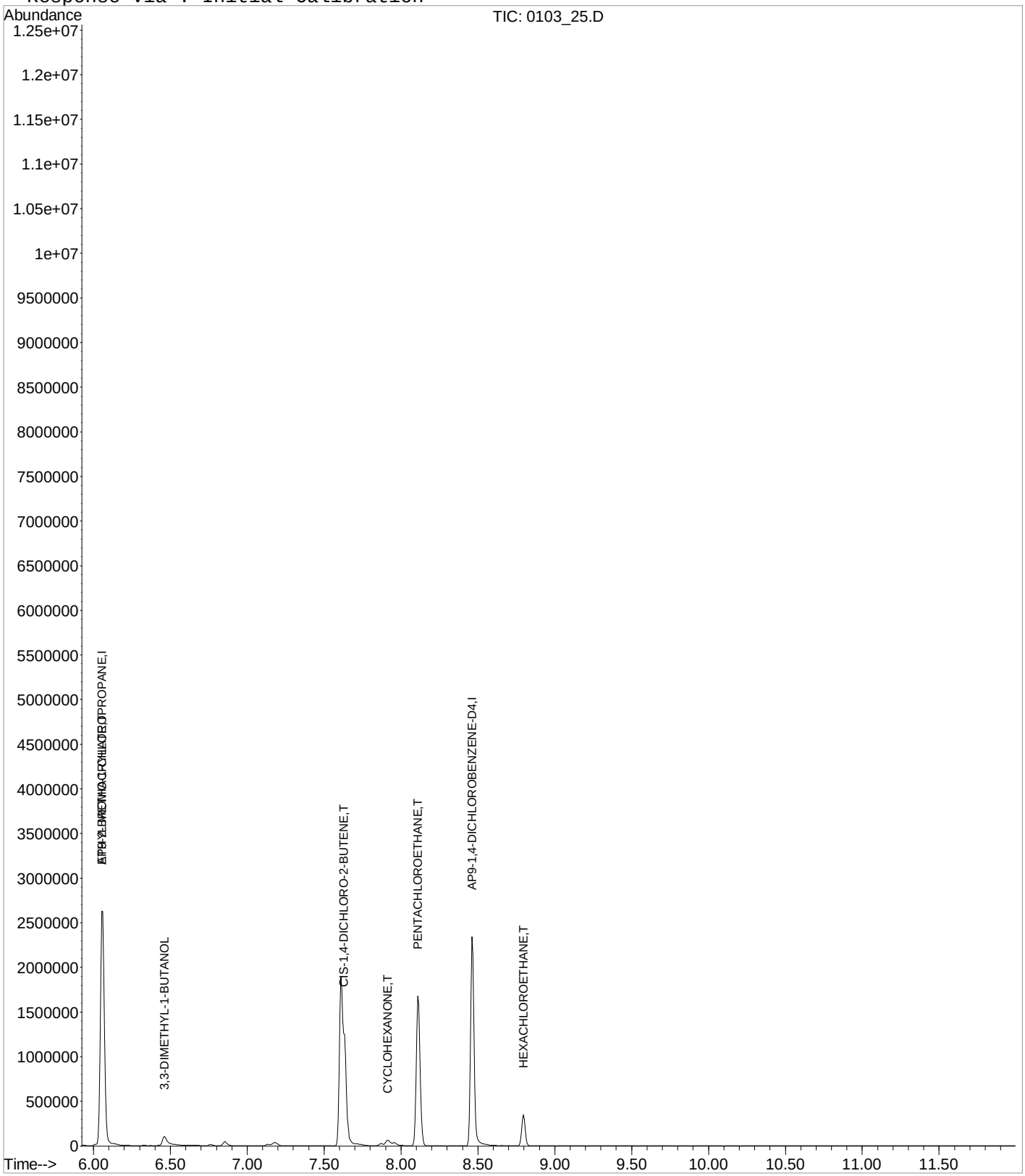
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:34 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_25.D Vial: 25
Acq On : 3 Jan 2017 8:15 pm Operator: 605
Sample : STD VMS 12.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:52 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:34 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_26.D Vial: 26
Acq On : 3 Jan 2017 8:38 pm Operator: 605
Sample : STD VMS 15 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:51:01 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

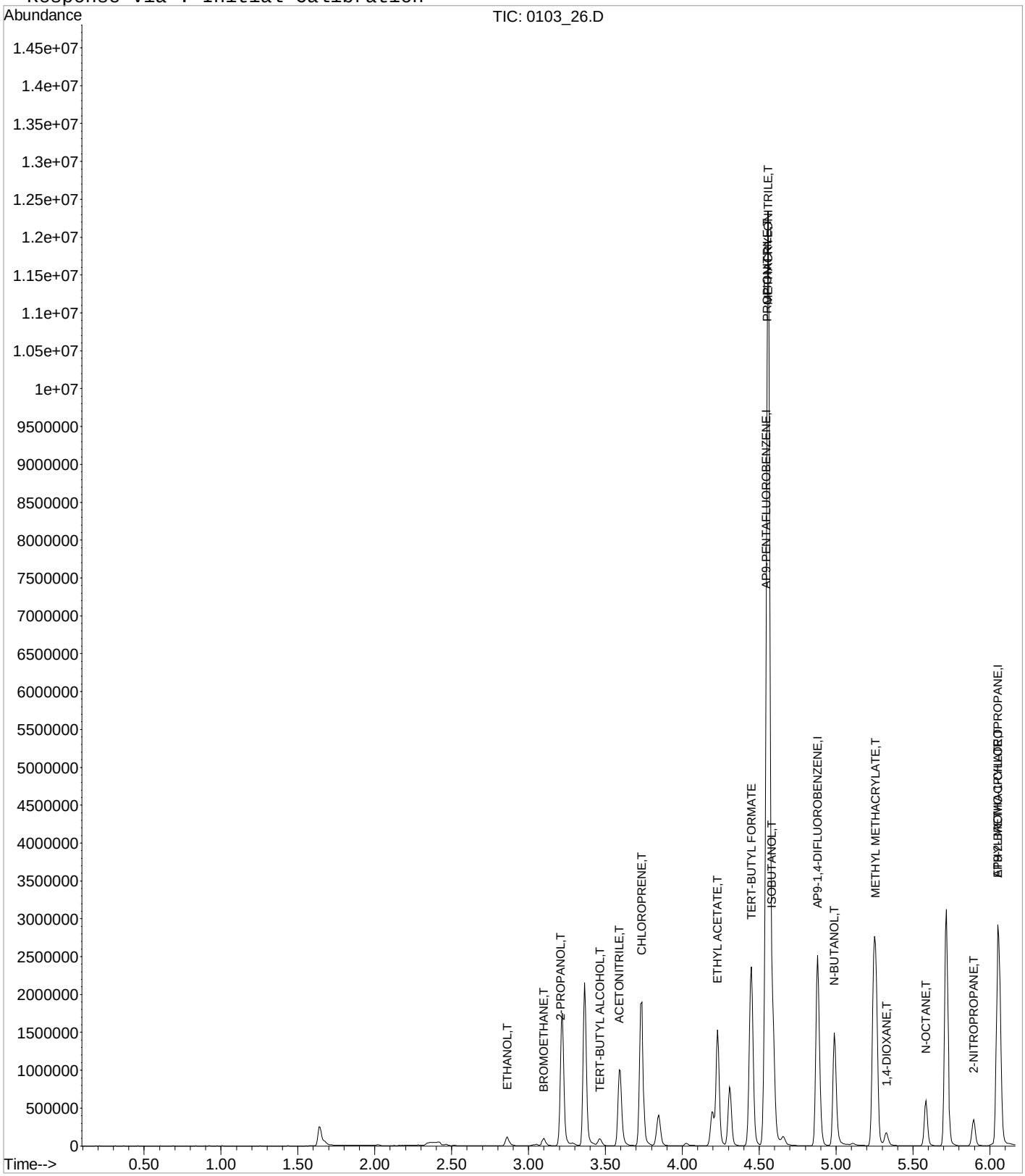
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	718697	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1335759	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	252753	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	543740	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	125958	1505.8774286	ppb		94
106) BROMOETHANE	3.10	108	71517	16.2138496	ppb		99
107) 2-PROPANOL	3.20	45	40092	76.2109838	ppb		94
108) ACETONITRILE	3.59	41	960683	747.0386515	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	95428	75.0970360	ppb		99
110) CHLOROPRENE	3.74	53	1033204	77.2602602	ppb		100
111) PROPIONITRILE	4.55	54	1198349	770.1417078	ppb		98
112) ETHYL ACETATE	4.23	43	1500158	154.9350056	ppb		100
113) METHACRYLONITRILE	4.56	67	2701537	767.9414512	ppb		99
114) TERT-BUTYL FORMATE	4.45	59	1146315	152.3231603	ppb		99
115) ISOBUTANOL	4.59	43	764915	1509.3468235	ppb	#	99
117) N-BUTANOL	4.99	56	728912	2863.7232751	ppb		98
118) 2-NITROPROPANE	5.90	43	220831	72.6259188	ppb		98
119) METHYL METHACRYLATE	5.26	41	759380	72.2272431	ppb		96
120) 1,4-DIOXANE	5.33	88	97948	1396.1186430	ppb		98
121) N-OCTANE	5.58	85	99002	14.4502370	ppb		99
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	75822	149.0888821	ppb		96
124) ETHYL METHACRYLATE	6.05	69	777847	73.7334909	ppb		76
125) CIS-1,4-DICHLORO-2-BUTENE	7.63	53	286278	73.8729356	ppb	#	98
126) CYCLOHEXANONE	7.91	55	41633	140.3169600	ppb	#	87
127) PENTACHLOROETHANE	8.11	117	333487	73.1217549	ppb		98
128) HEXACHLOROETHANE	8.80	117	81647	14.8965911	ppb		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_26.D Vial: 26
Acq On : 3 Jan 2017 8:38 pm Operator: 605
Sample : STD VMS 15 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

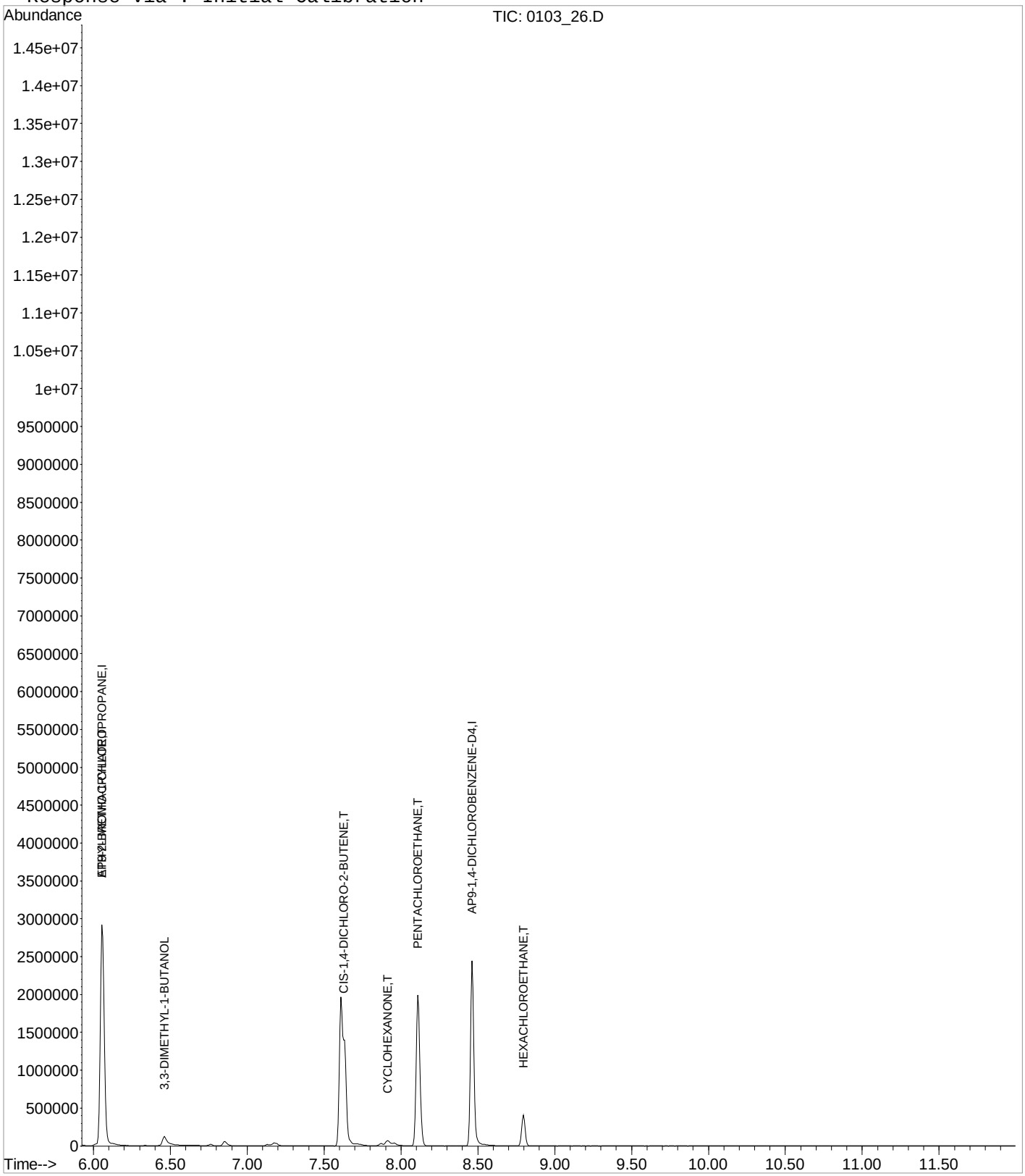
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:52 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_26.D Vial: 26
Acq On : 3 Jan 2017 8:38 pm Operator: 605
Sample : STD VMS 15 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:52:52 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_27.D Vial: 27
Acq On : 3 Jan 2017 9:01 pm Operator: 605
Sample : STD VMS 17.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:51:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

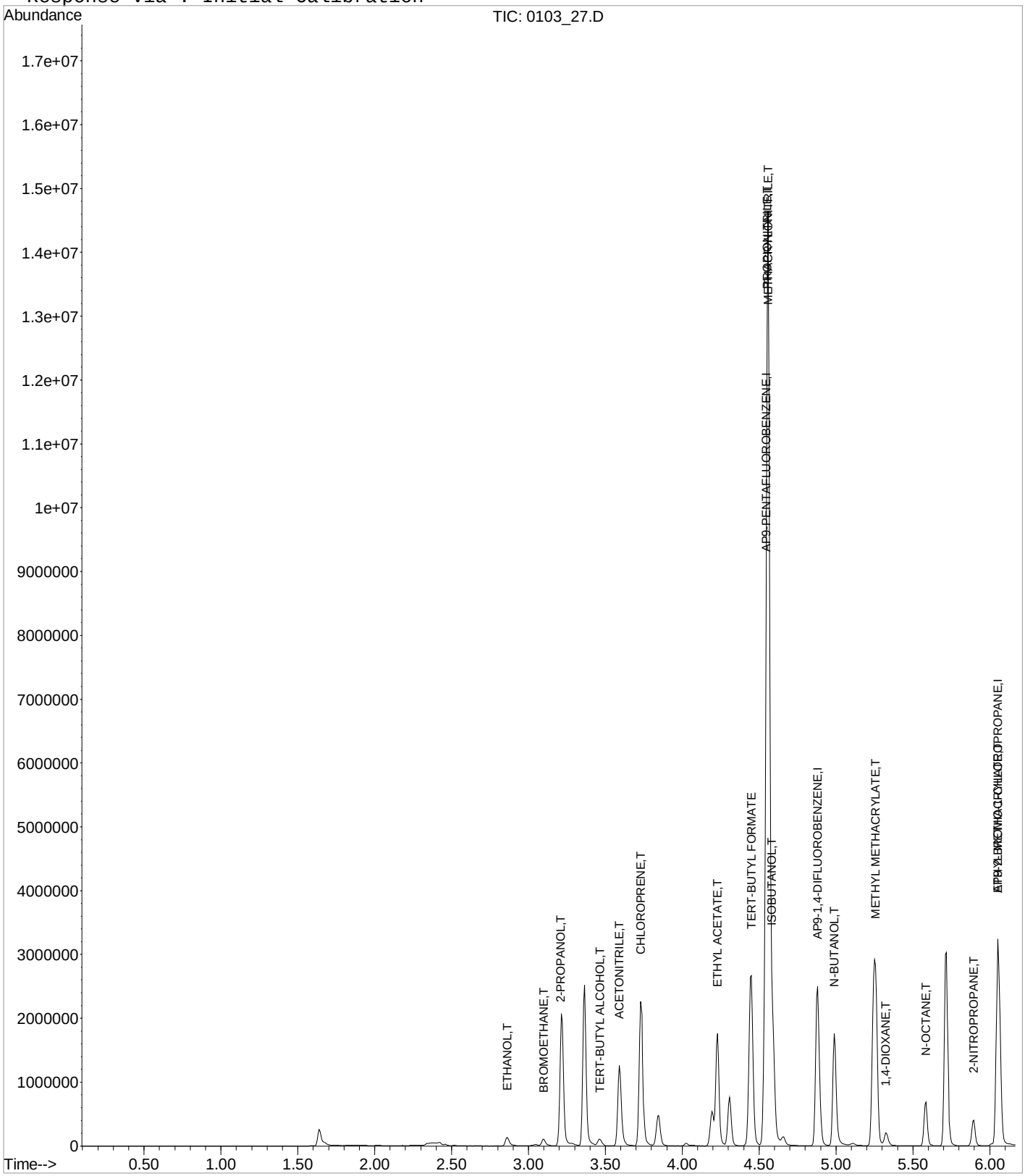
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	704230	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1307688	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	250112	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	543822	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	149230	1820.7541841	ppb		95
106) BROMOETHANE	3.10	108	85022	19.6715907	ppb		98
107) 2-PROPANOL	3.20	45	47304	91.7675258	ppb		96
108) ACETONITRILE	3.59	41	1139087	903.9640776	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	109570	87.9974214	ppb		98
110) CHLOROPRENE	3.73	53	1216766	92.8556776	ppb		99
111) PROPIONITRILE	4.55	54	1400063	918.2611583	ppb		98
112) ETHYL ACETATE	4.23	43	1727254	182.0539336	ppb		100
113) METHACRYLONITRILE	4.56	67	3188071	924.8610399	ppb		99
114) TERT-BUTYL FORMATE	4.45	59	1312590	178.0009695	ppb		99
115) ISOBUTANOL	4.59	43	895012	1802.3371555	ppb	#	96
117) N-BUTANOL	4.99	56	843512	3385.0975243	ppb		96
118) 2-NITROPROPANE	5.90	43	257513	86.5076928	ppb		98
119) METHYL METHACRYLATE	5.26	41	881508	85.6430474	ppb		94
120) 1,4-DIOXANE	5.32	88	117431	1709.7534300	ppb		96
121) N-OCTANE	5.59	85	115575	17.2313329	ppb		98
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	92370	185.5260664	ppb		95
124) ETHYL METHACRYLATE	6.05	69	891400	85.3896110	ppb	#	69
125) CIS-1,4-DICHLORO-2-BUTENE	7.63	53	326600	85.1677852	ppb	#	98
126) CYCLOHEXANONE	7.91	55	49312	167.9526527	ppb		94
127) PENTACHLOROETHANE	8.11	117	394533	87.4204065	ppb		98
128) HEXACHLOROETHANE	8.80	117	99461	18.3383931	ppb		96

(#) = qualifier out of range (m) = manual integration
0103_27.D V808A03Q.M Wed Jan 04 10:53:24 2017 292 of 499 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_27.D Vial: 27
Acq On : 3 Jan 2017 9:01 pm Operator: 605
Sample : STD VMS 17.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

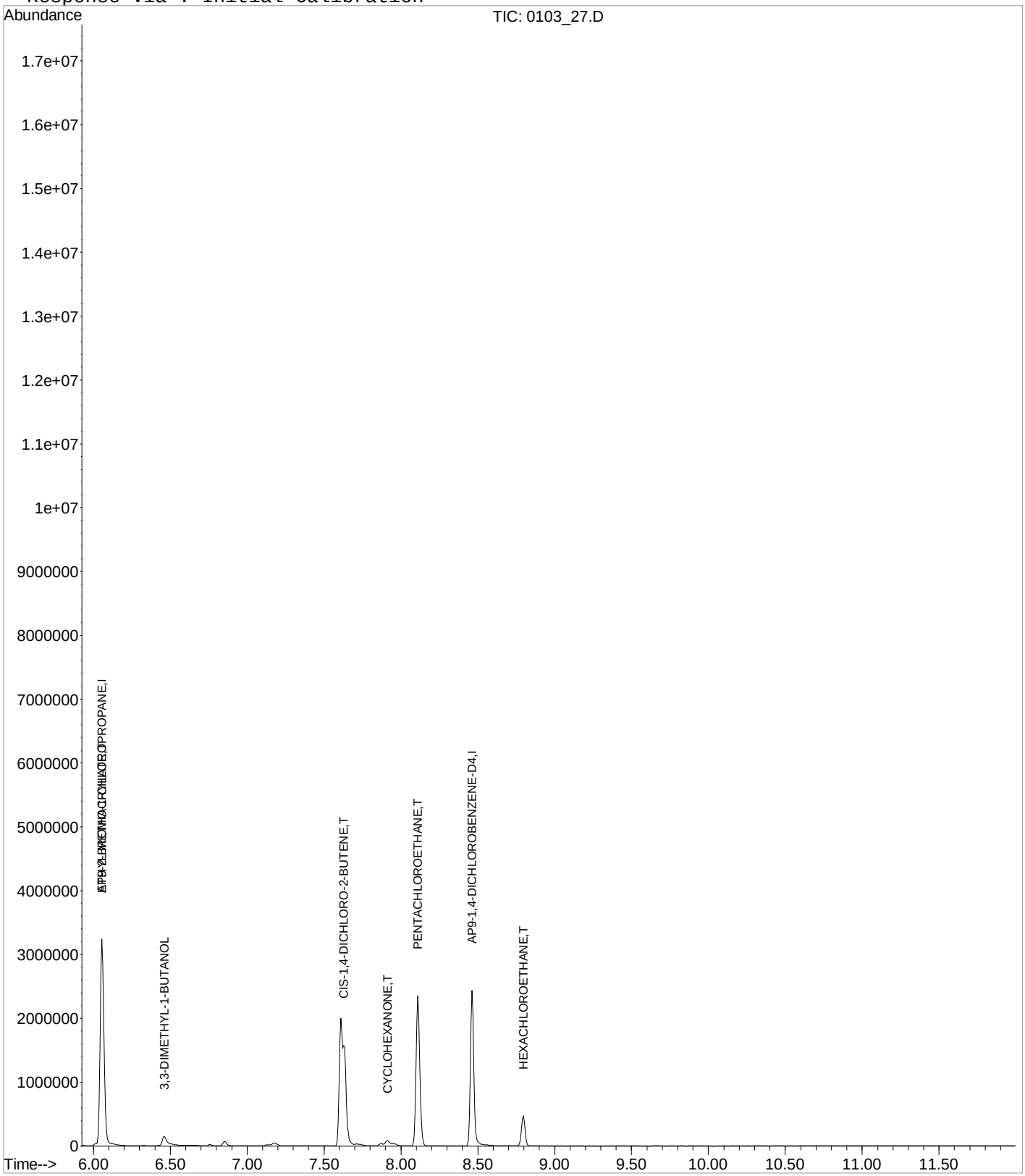
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:53:08 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_27.D Vial: 27
Acq On : 3 Jan 2017 9:01 pm Operator: 605
Sample : STD VMS 17.5 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:53:08 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_28.D Vial: 28
Acq On : 3 Jan 2017 9:23 pm Operator: 605
Sample : STD VMS 20 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:51:08 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:50:24 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

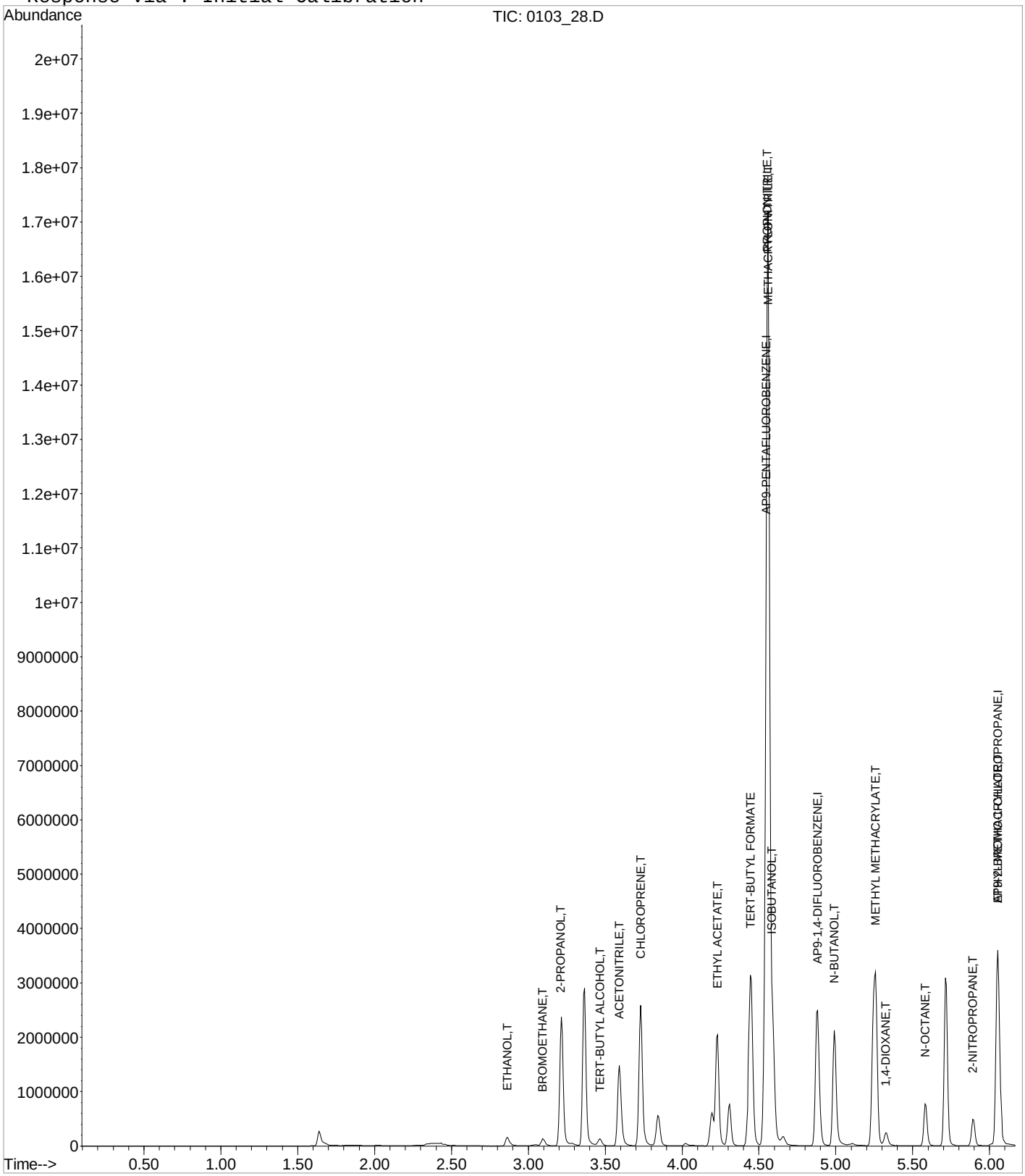
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.55
48) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.88
61) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.07
92) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.46
104) AP9-PENTAFLUOROBENZENE	4.54	168	703164	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1315020	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	244397	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	551916	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.86	45	181501	2217.8496101	ppb		94
106) BROMOETHANE	3.09	108	97917	22.6894598	ppb		97
107) 2-PROPANOL	3.20	45	56595	109.9580716	ppb		93
108) ACETONITRILE	3.59	41	1360908	1081.6355135	ppb		100
109) TERT-BUTYL ALCOHOL	3.46	59	134083	107.8474540	ppb		98
110) CHLOROPRENE	3.73	53	1386351	105.9576924	ppb		98
111) PROPIONITRILE	4.55	54	1708513	1122.2634463	ppb		96
112) ETHYL ACETATE	4.23	43	2070319	218.5440675	ppb		100
113) METHACRYLONITRILE	4.56	67	3874539	1125.7097586	ppb		98
114) TERT-BUTYL FORMATE	4.44	59	1547703	210.2029443	ppb		99
115) ISOBUTANOL	4.59	43	1091499	2201.3465319	ppb	#	97
117) N-BUTANOL	4.99	56	1020213	4071.3885737	ppb		96
118) 2-NITROPROPANE	5.89	43	315366	105.3518633	ppb		99
119) METHYL METHACRYLATE	5.26	41	1055458	101.9714490	ppb		94
120) 1,4-DIOXANE	5.32	88	141483	2048.4565896	ppb		96
121) N-OCTANE	5.58	85	130538	19.3536867	ppb		100
122) 3,3-DIMETHYL-1-BUTANOL	6.46	57	115422	230.5336724	ppb		97
124) ETHYL METHACRYLATE	6.05	69	1072183	105.1090185	ppb	#	63
125) CIS-1,4-DICHLORO-2-BUTENE	7.64	53	394370	105.2450556	ppb	#	98
126) CYCLOHEXANONE	7.91	55	59161	206.2093794	ppb		90
127) PENTACHLOROETHANE	8.11	117	455668	103.3276794	ppb		99
128) HEXACHLOROETHANE	8.80	117	111024	20.9490332	ppb		98

(#) = qualifier out of range (m) = manual integration
0103_28.D V808A03Q.M Wed Jan 04 10:53:39 2017 295 of 499 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_28.D Vial: 28
Acq On : 3 Jan 2017 9:23 pm Operator: 605
Sample : STD VMS 20 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

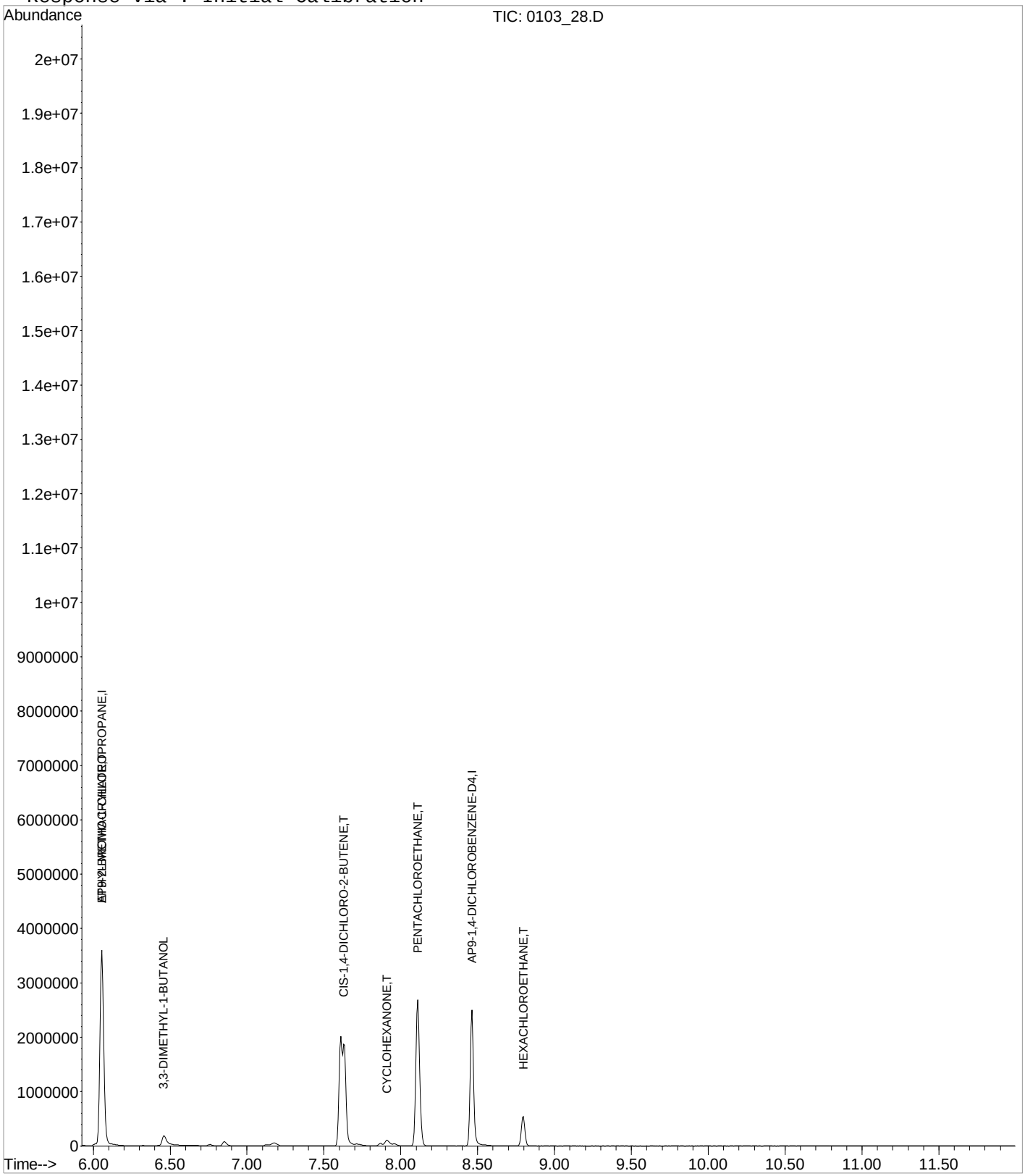
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:53:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_28.D Vial: 28
Acq On : 3 Jan 2017 9:23 pm Operator: 605
Sample : STD VMS 20 ppb 16L16234 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:53 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:53:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:58:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.53	168	684922	40.00 ppb	-0.01
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1274530	40.00 ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.05	79	235820	40.00 ppb	-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	523633	40.00 ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.53	168	686693	40.00 ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1274530	40.00 ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.05	79	235820	40.00 ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	523633	40.00 ppb	0.00
System Monitoring Compounds					
38) DIBROMOFLUOROMETHANE	4.30	111	377603	40.8891050 ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.22%		
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	659709	41.8294189 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.57%		
58) TOLUENE-D8	5.71	98	1645669	41.7336067 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.33%		
76) 4-BROMOFLUOROBENZENE	7.60	95	593640	41.0296836 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.57%		
Target Compounds					Qvalue
6) CHLOROMETHANE	2.02	50	6255	0.4624813 ppb	# 70
8) 1,3-BUTADIENE	2.08	39	2935	0.3299825 ppb	# 11
9) BROMOMETHANE	2.34	94	2152	0.2444587 ppb	# 93
14) ACROLEIN	3.13	56	22352	154.2771239 ppb	# 15
17) ACETONE	3.27	43	38604	12.9462538 ppb	# 78
18) IODOMETHANE	3.03	142	6017	0.6750299 ppb	# 94
23) ACRYLONITRILE	3.75	53	1055	0.3127064 ppb	# 26
24) n-HEXANE	3.41	56	86974	10.5323260 ppb	# 54
33) 2-BUTANONE (MEK)	4.38	43	13090	2.6964674 ppb	# 58
35) TETRAHYDROFURAN	4.30	42	1195	0.2469078 ppb	# 1
36) CHLOROFORM	4.19	83	2500	0.1758146 ppb	# 1
37) CYCLOHEXANE	4.19	84	36146	2.7197975 ppb	# 1
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	396016	12.4741128 ppb	94
43) n-Heptane	4.48	71	54540	6.8740844 ppb	# 84
44) BENZENE	4.55	78	103352	3.0842835 ppb	# 88
50) METHYL CYCLOHEXANE	4.88	83	78600	3.9548921 ppb	# 70
51) 1,2-DICHLOROPROPANE	5.24	62	16008	2.5599148 ppb	# 27
53) BROMODICHLOROMETHANE	5.25	83	2062	0.1864559 ppb	# 1
56) CIS-1,3-DICHLOROPROPENE	5.74	75	5465	0.4084885 ppb	# 1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	5625	0.6218522 ppb	# 38
59) TOLUENE	5.74	91	787246	22.5888601 ppb	99
60) TRANS-1,3-DICHLOROPROPENE	6.05	75	13199	1.0605846 ppb	# 1
62) 1,1,2-TRICHLOROETHANE	6.11	97	2537	0.4018027 ppb	# 1
65) 2-HEXANONE	6.63	58	657	0.1979483 ppb	# 1
70) ETHYLBENZENE	6.75	106	52907	4.5679616 ppb	100
71) M&P-XYLENE	6.84	106	278185	19.4420014 ppb	97
72) O-XYLENE	7.15	106	100167	7.4554587 ppb	94
73) STYRENE	7.16	104	4390	0.1984682 ppb	# 1
75) ISOPROPYLBENZENE	7.37	105	23906	0.6411934 ppb	98
77) BROMOBENZENE	7.68	77	3875	0.2276511 ppb	# 34
78) 1,1,2,2-TETRACHLOROETHANE	7.71	83	2716	0.2956084 ppb	# 48
80) TRANS-1,4-DICHLORO-2-BUTEN	7.81	53	4485	1.3899972 ppb	# 51
81) N-PROPYLBENZENE	7.68	91	66931	1.4841637 ppb	100
82) 4-ETHYLTOLUENE	7.74	105	267695	7.4524575 ppb	99
83) 2-CHLOROTOLUENE	7.81	91	10774	0.3625929 ppb	# 53

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:58:51 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

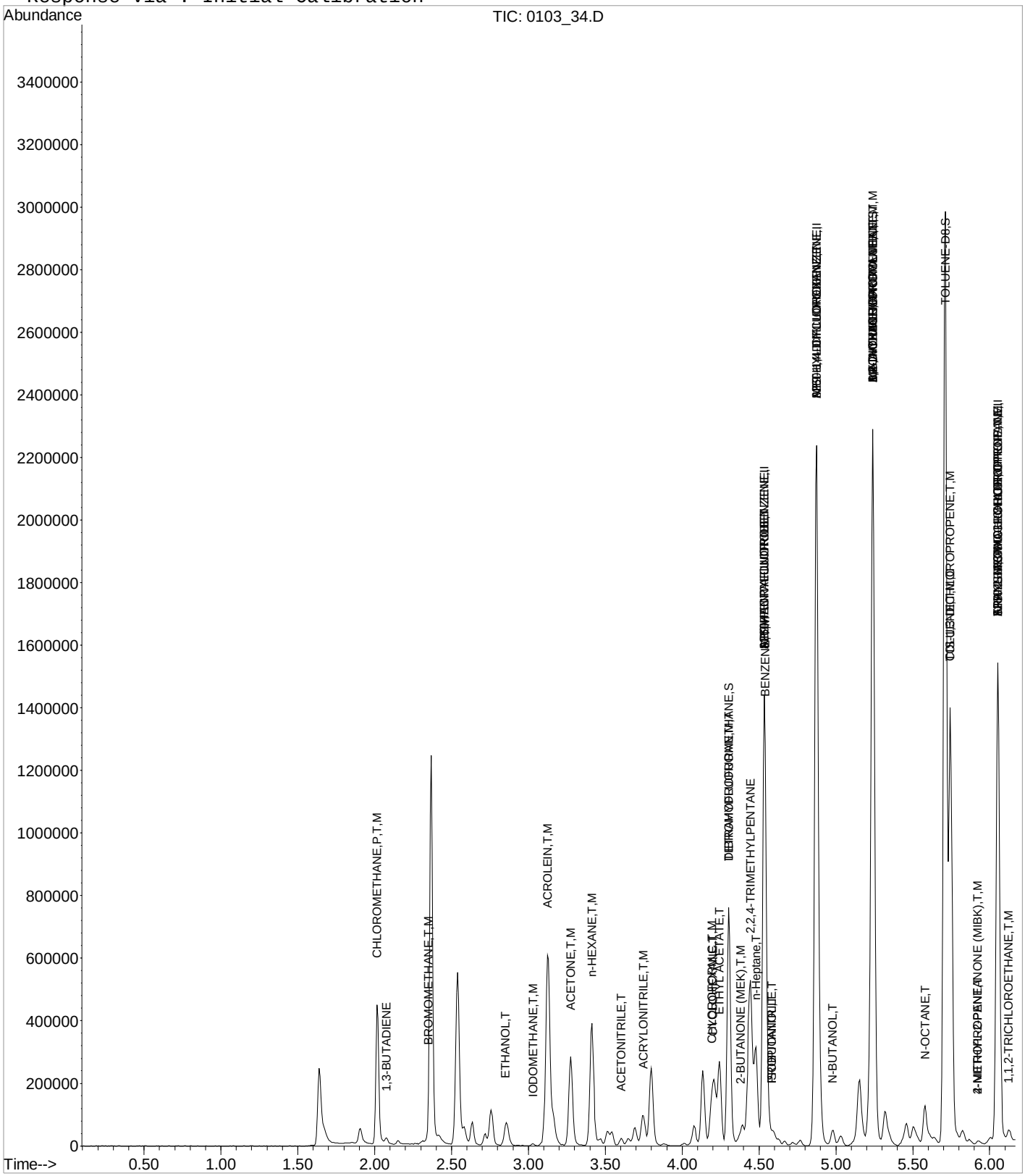
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	86376	2.7452894	ppb		97
86)	TERT-BUTYLBENZENE	8.12	119	31234	1.2160881	ppb	#	59
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	283441	9.3389178	ppb		100
88)	SEC-BUTYLBENZENE	8.20	105	11064	0.2820689	ppb	#	91
90)	P-ISOPROPYLTOLUENE	8.27	119	13521	0.4297635	ppb		95
91)	DICYCLOPENTADIENE	8.46	66	15996	0.3902618	ppb	#	78
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	70618	2.2721256	ppb		99
96)	N-BUTYLBENZENE	8.63	91	13118	0.4449123	ppb	#	83
100)	NAPHTHALENE	10.29	128	21559	0.9909018	ppb	#	84
102)	1-METHYLNAPHTHALENE	11.16	142	12009	1.2275290	ppb	#	84
103)	2-METHYLNAPHTHALENE	11.30	142	7132	0.7665972	ppb	#	88
105)	ETHANOL	2.84	45	4095	47.4025428	ppb	#	80
108)	ACETONITRILE	3.60	41	6863	5.3149582	ppb	#	40
111)	PROPIONITRILE	4.59	54	1287	0.8184439	ppb	#	1
112)	ETHYL ACETATE	4.24	43	162473	16.4094635	ppb	#	48
113)	METHACRYLONITRILE	4.53	67	4650	1.3123090	ppb	#	1
115)	ISOBUTANOL	4.59	43	3155	6.0942786	ppb	#	79
117)	N-BUTANOL	4.98	56	12496	51.1221208	ppb	#	60
118)	2-NITROPROPANE	5.92	43	5625	1.9459280	ppb	#	67
119)	METHYL METHACRYLATE	5.25	41	32469	3.2583040	ppb	#	1
120)	1,4-DIOXANE	5.24	88	10040	147.8962852	ppb	#	1
121)	N-OCTANE	5.58	85	16533	2.6101655	ppb		91
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	3269	14.9194516	ppb	#	50
124)	ETHYL METHACRYLATE	6.06	69	5011	0.5229556	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.60	53	1291	0.3624174	ppb	#	36
126)	CYCLOHEXANONE	7.91	55	490	1.8301227	ppb	#	51
127)	PENTACHLOROETHANE	8.12	117	8981	2.1894802	ppb	#	14

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: V808A03Q.RES

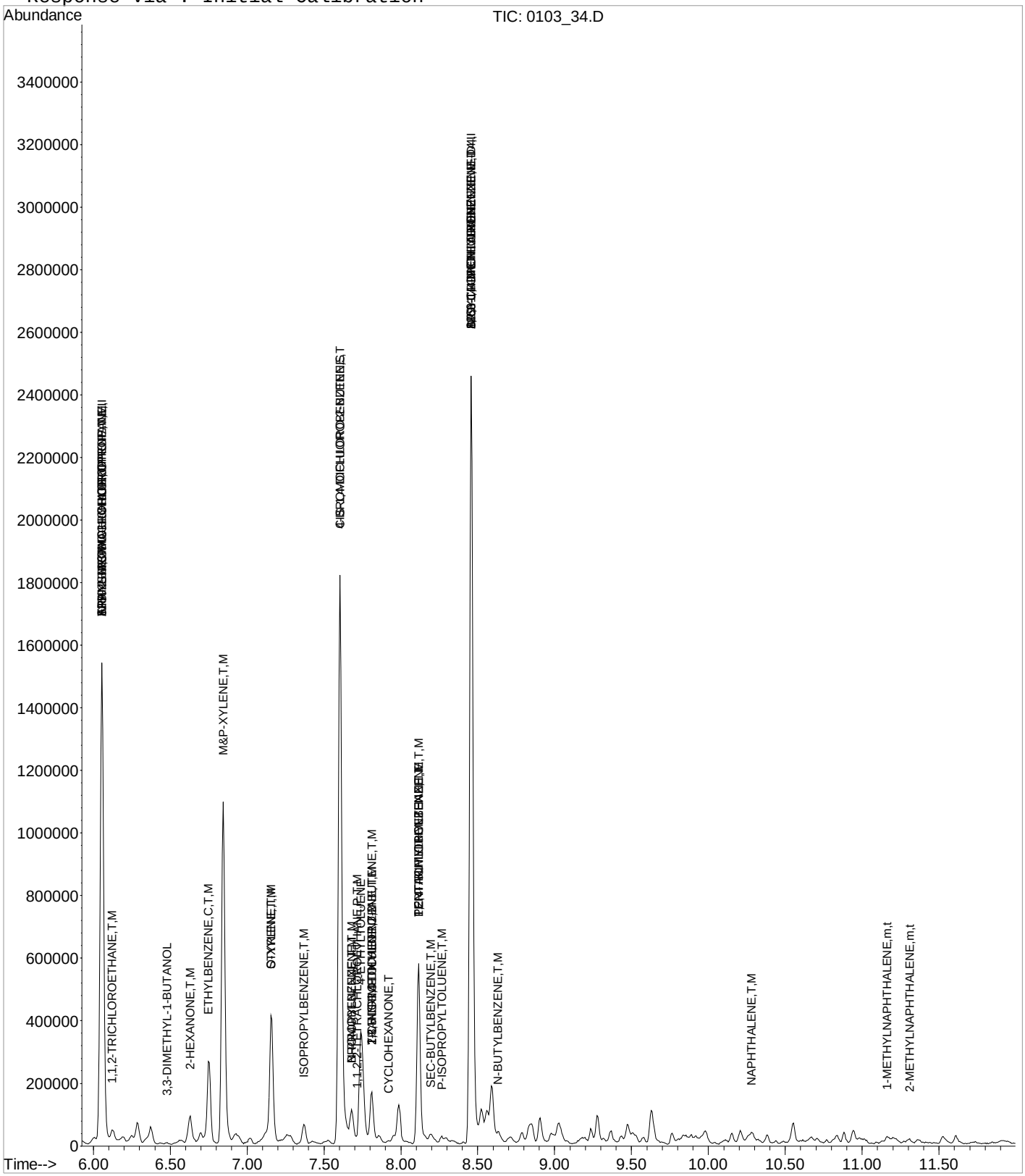
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: V808A03Q.RES

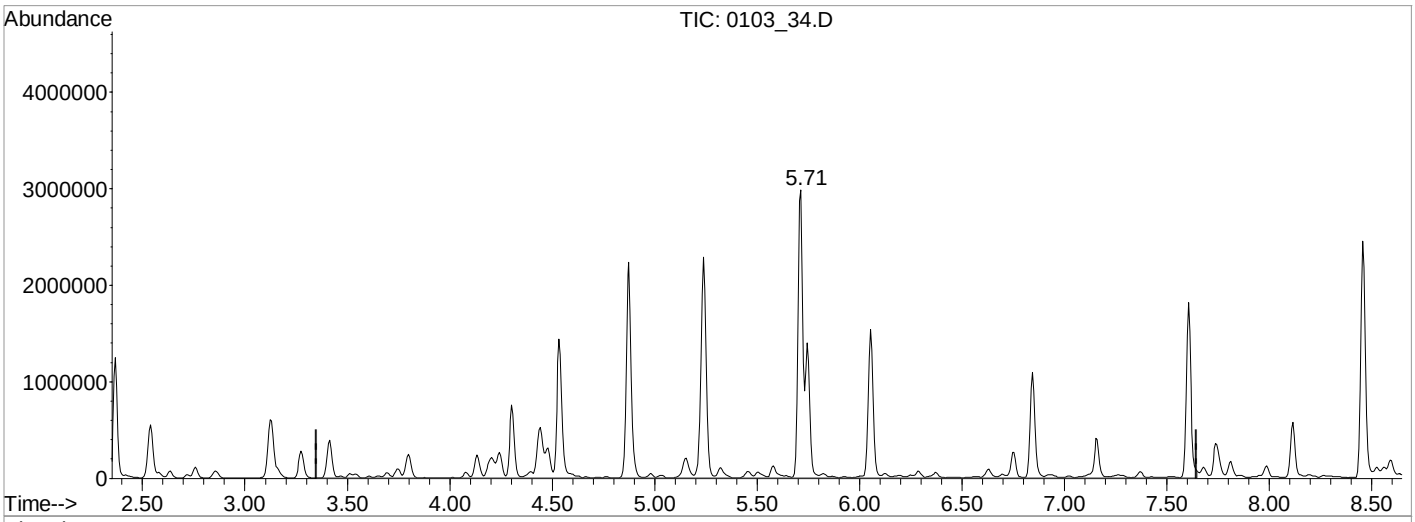
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

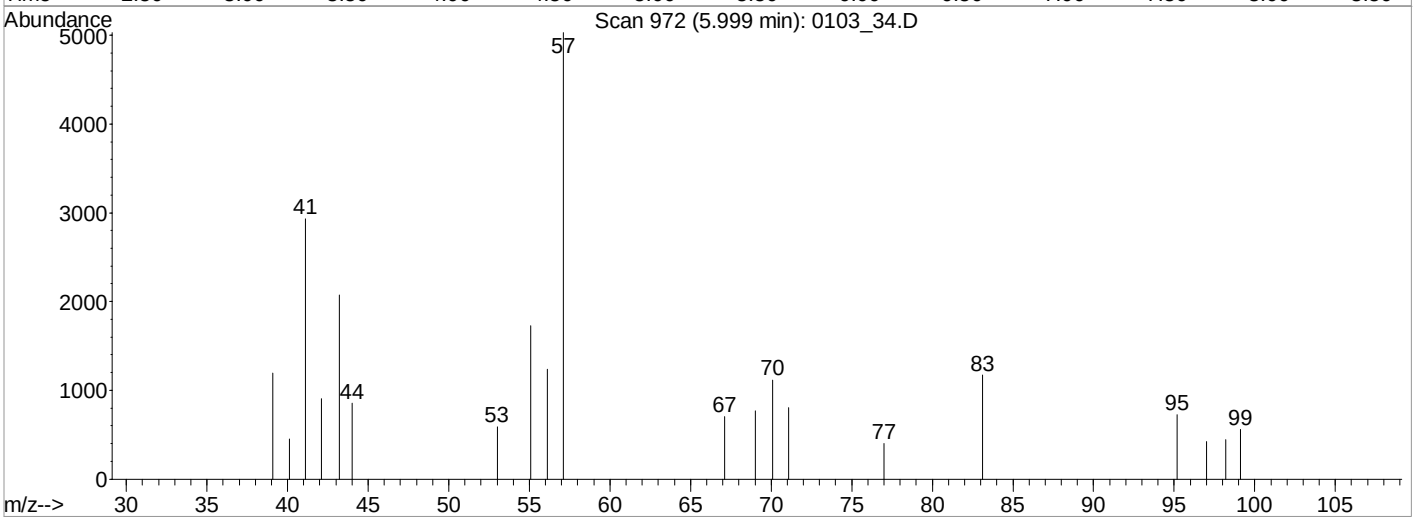


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:58 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_34.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

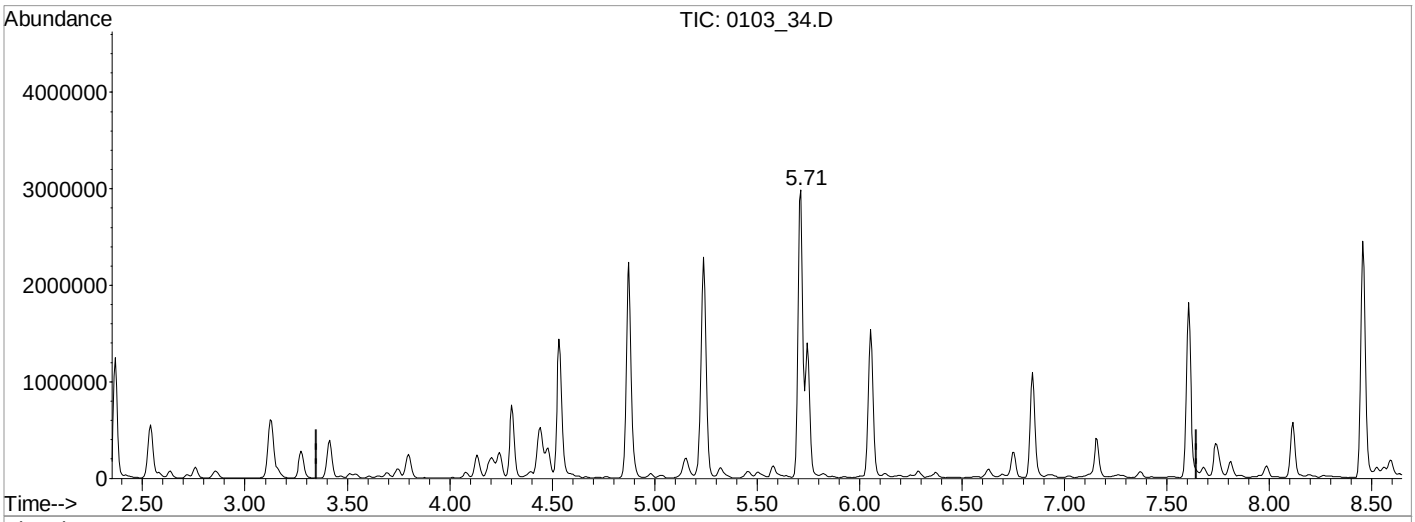
response -8112282

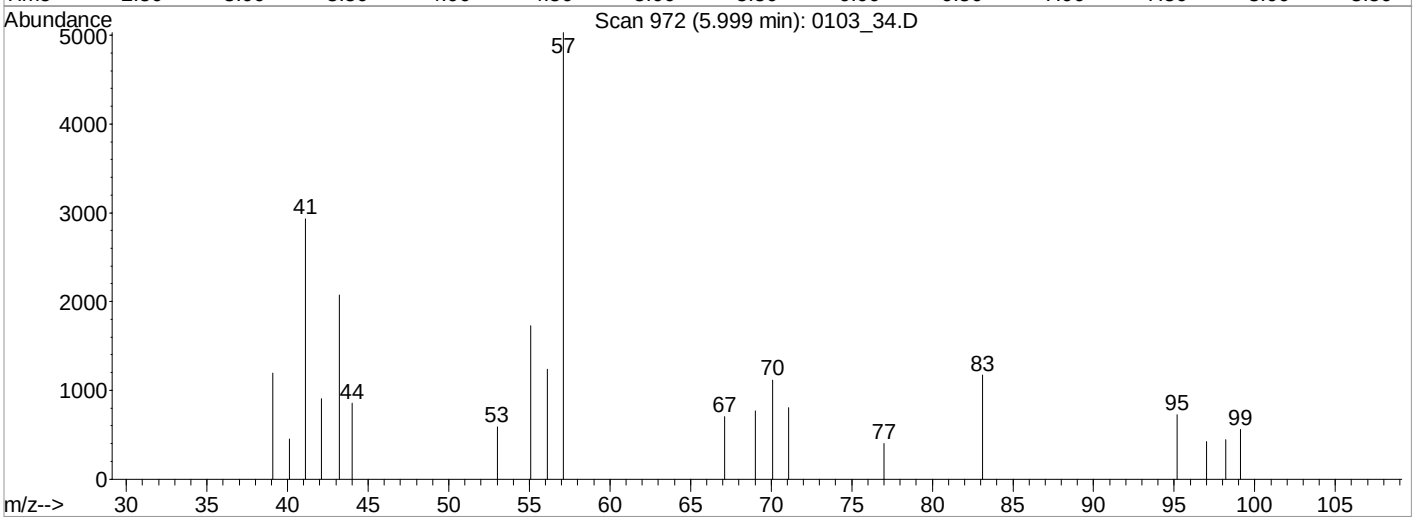
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-10.12#
0.00	0.00	-4.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_34.D Vial: 34
Acq On : 3 Jan 2017 11:48 pm Operator: 605
Sample : STD GROMS 0.4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_34.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.71min (-0.287) 0.0000000 ppm m

response 35353060

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	2.32#
0.00	0.00	0.95#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:59:19 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	692962	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1290757	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.05	79	239774	40.00	ppb	-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	527553	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	694052	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1290757	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.05	79	239774	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	527553	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	386970	41.4172407	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.54%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	663036	41.5118516	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.78%			
58) TOLUENE-D8	5.71	98	1665060	41.6945116	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.24%			
76) 4-BROMOFLUOROBENZENE	7.61	95	612689	41.6479512	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.12%			
Target Compounds						Qvalue
6) CHLOROMETHANE	2.02	50	16239	1.1867461	ppb #	67
8) 1,3-BUTADIENE	2.08	39	10101	1.1224806	ppb #	13
9) BROMOMETHANE	2.35	94	1873	0.2102968	ppb	97
14) ACROLEIN	3.13	56	58022	372.3877655	ppb #	21
17) ACETONE	3.28	43	99790	33.0773364	ppb #	78
18) IODOMETHANE	3.03	142	5807	0.6439120	ppb #	92
22) METHYL ACETATE	3.42	43	273725	37.9561208	ppb #	57
23) ACRYLONITRILE	3.75	53	3285	0.9623907	ppb #	32
24) n-HEXANE	3.42	56	227506	27.2307373	ppb #	53
28) VINYL ACETATE	3.88	43	5931	0.3291582	ppb #	77
33) 2-BUTANONE (MEK)	4.38	43	36264	7.3835110	ppb #	63
35) TETRAHYDROFURAN	4.32	42	3085	0.6300192	ppb #	13
36) CHLOROFORM	4.20	83	7068	0.4912960	ppb #	1
37) CYCLOHEXANE	4.19	84	92493	6.8788667	ppb #	1
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	1043406	32.4849319	ppb	93
43) n-Heptane	4.48	71	136648	17.0229452	ppb #	92
44) BENZENE	4.55	78	258231	7.6168513	ppb	98
45) TERT-AMYL METHYL ETHER	4.55	73	5642	0.2181870	ppb #	1
50) METHYL CYCLOHEXANE	4.89	83	174181	9.6252790	ppb #	56
53) BROMODICHLOROMETHANE	5.25	83	4773	0.4261716	ppb #	1
57) 4-METHYL-2-PENTANONE (MIBK	5.93	43	16341	1.7838111	ppb #	38
59) TOLUENE	5.74	91	2022378	57.2996222	ppb	99
60) TRANS-1,3-DICHLOROPROPENE	6.05	75	12669	1.0051993	ppb #	1
62) 1,1,2-TRICHLOROETHANE	6.12	97	6779	1.0559335	ppb #	1
65) 2-HEXANONE	6.63	58	2413	0.7150269	ppb #	1
70) ETHYLBENZENE	6.75	106	135177	11.4786459	ppb	99
71) M&P-XYLENE	6.85	106	727245	49.9880911	ppb	99
72) O-XYLENE	7.16	106	260322	19.0563236	ppb	100
73) STYRENE	7.16	104	12107	0.5383213	ppb #	1
75) ISOPROPYLBENZENE	7.37	105	63793	1.6828046	ppb	98
77) BROMOBENZENE	7.68	77	6417	0.3707735	ppb #	34
78) 1,1,2,2-TETRACHLOROETHANE	7.70	83	3084	0.3301261	ppb #	83
79) 1,2,3-TRICHLOROPROPANE	7.85	110	471	0.1803261	ppb #	1
80) TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	1943	0.5922469	ppb #	31
81) N-PROPYLBENZENE	7.68	91	173186	3.7769900	ppb	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:59:19 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

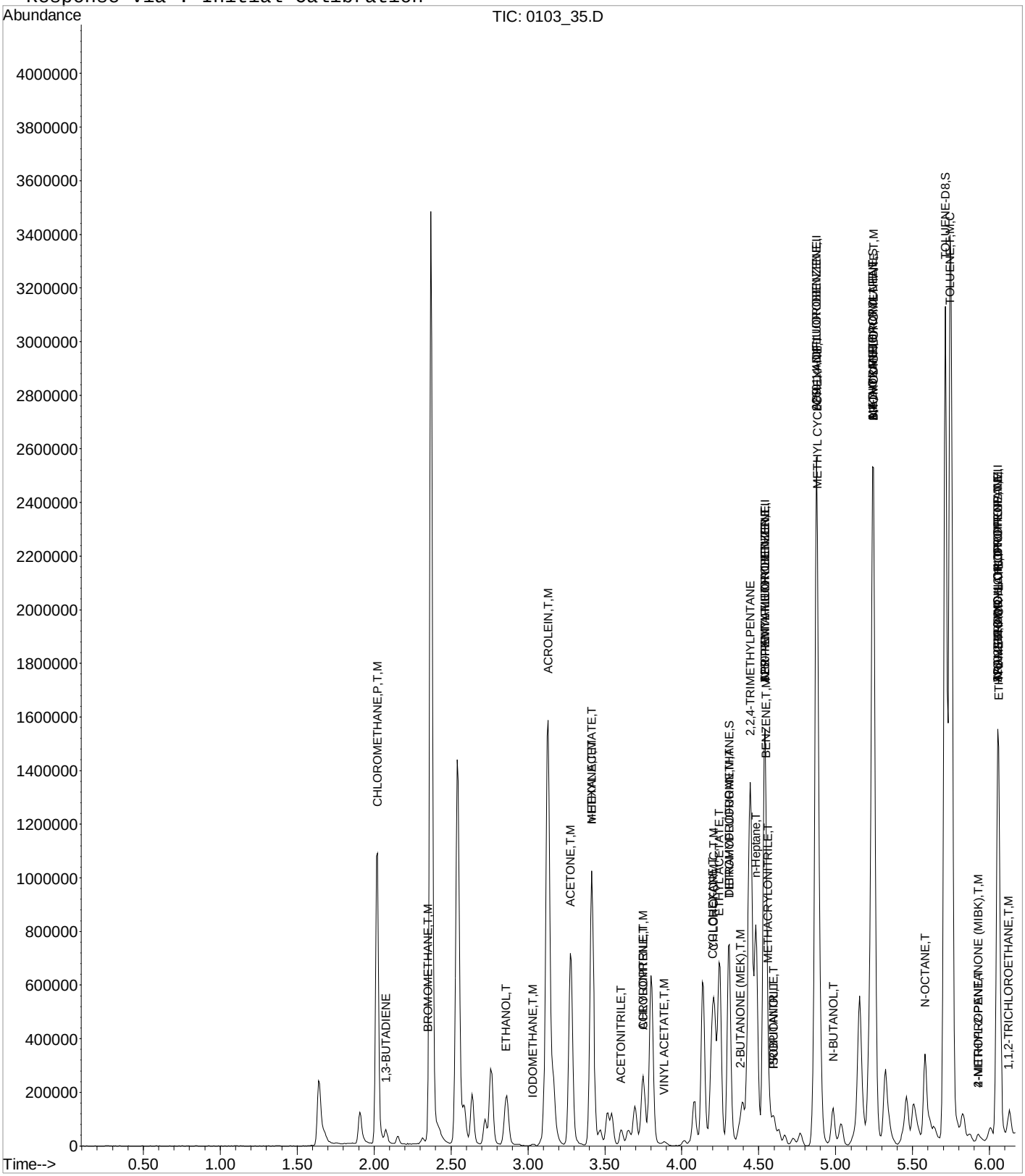
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
82)	4-ETHYLTOLUENE	7.74	105	692470	18.9600185	ppb		98
83)	2-CHLOROTOLUENE	7.81	91	23569	0.7801211	ppb	#	47
84)	4-CHLOROTOLUENE	7.99	91	24556	0.9002885	ppb	#	51
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	213153	6.6629268	ppb		99
86)	TERT-BUTYLBENZENE	8.12	119	85324	3.2672864	ppb	#	68
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	724391	23.4739121	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	25569	0.6411142	ppb	#	83
90)	P-ISOPROPYLTOLUENE	8.27	119	35248	1.1018787	ppb	#	89
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	175600	5.6079269	ppb		100
96)	N-BUTYLBENZENE	8.64	91	35086	1.1811405	ppb	#	83
100)	NAPHTHALENE	10.29	128	50095	2.2853741	ppb	#	80
102)	1-METHYLNAPHTHALENE	11.16	142	30334	3.0776235	ppb		91
103)	2-METHYLNAPHTHALENE	11.30	142	19159	2.0440411	ppb		89
105)	ETHANOL	2.85	45	7738	88.6231267	ppb	#	84
108)	ACETONITRILE	3.61	41	19591	15.0111192	ppb	#	55
110)	CHLOROPRENE	3.75	53	3285	0.2483364	ppb	#	29
111)	PROPIONITRILE	4.60	54	4204	2.6451098	ppb	#	1
112)	ETHYL ACETATE	4.24	43	265452	26.5258797	ppb	#	27
113)	METHACRYLONITRILE	4.56	67	626	0.1747946	ppb	#	1
115)	ISOBUTANOL	4.60	43	7727	14.7674144	ppb	#	79
117)	N-BUTANOL	4.98	56	28813	116.3943498	ppb	#	56
118)	2-NITROPROPANE	5.93	43	16341	5.5819821	ppb	#	46
119)	METHYL METHACRYLATE	5.25	41	168067	16.6536987	ppb	#	69
120)	1,4-DIOXANE	5.24	88	10724	155.9861114	ppb	#	1
121)	N-OCTANE	5.58	85	43581	6.7938999	ppb		93
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	5762	19.2892518	ppb	#	46
124)	ETHYL METHACRYLATE	6.07	69	9251	0.9495278	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.62	53	7176	1.9812704	ppb	#	36
126)	CYCLOHEXANONE	7.93	55	1584	5.8185914	ppb	#	77
127)	PENTACHLOROETHANE	8.12	117	23878	5.7252285	ppb	#	14
128)	HEXACHLOROETHANE	8.80	117	1237	0.2412446	ppb	#	46

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: V808A03Q.RES

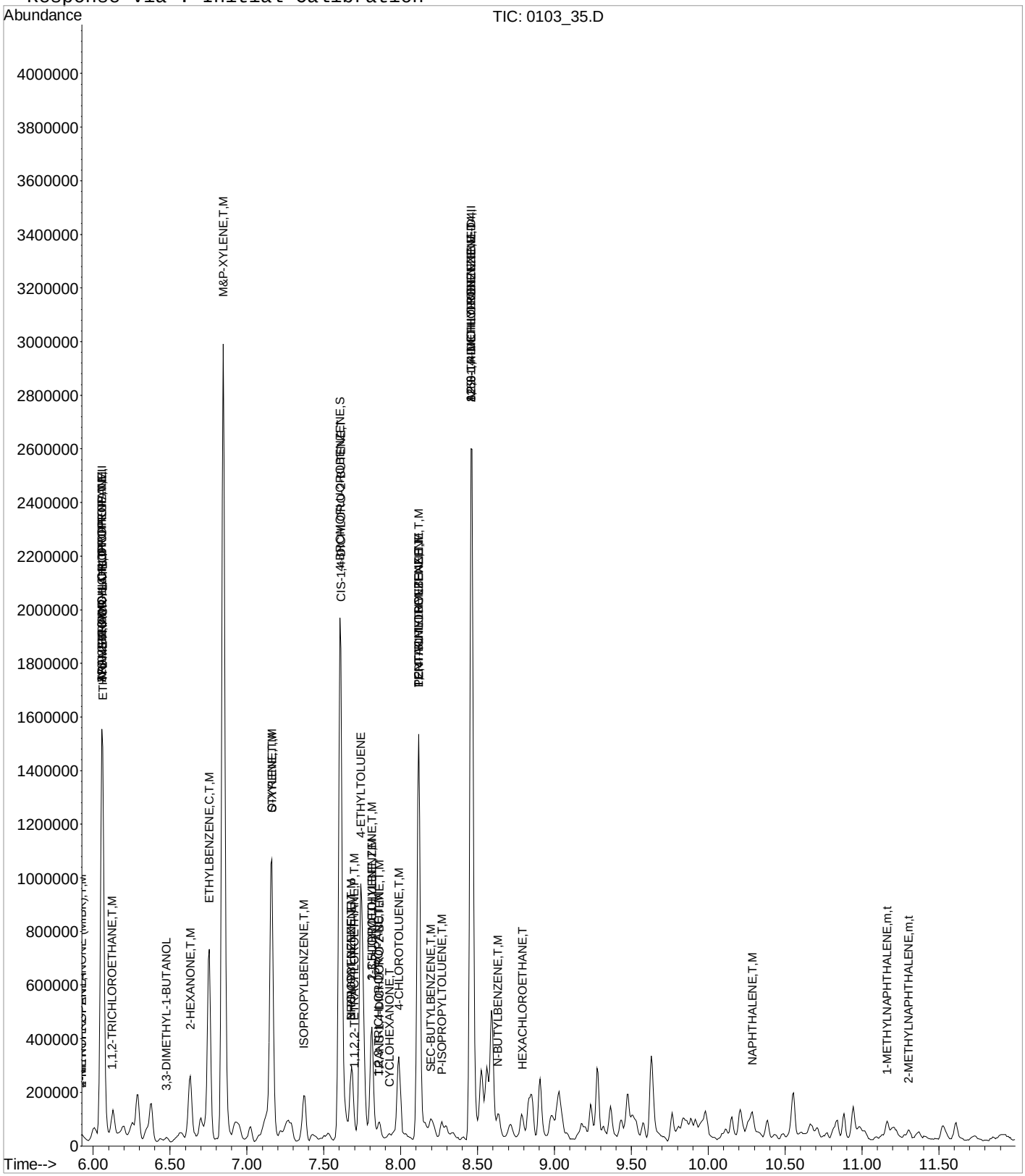
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: V808A03Q.RES

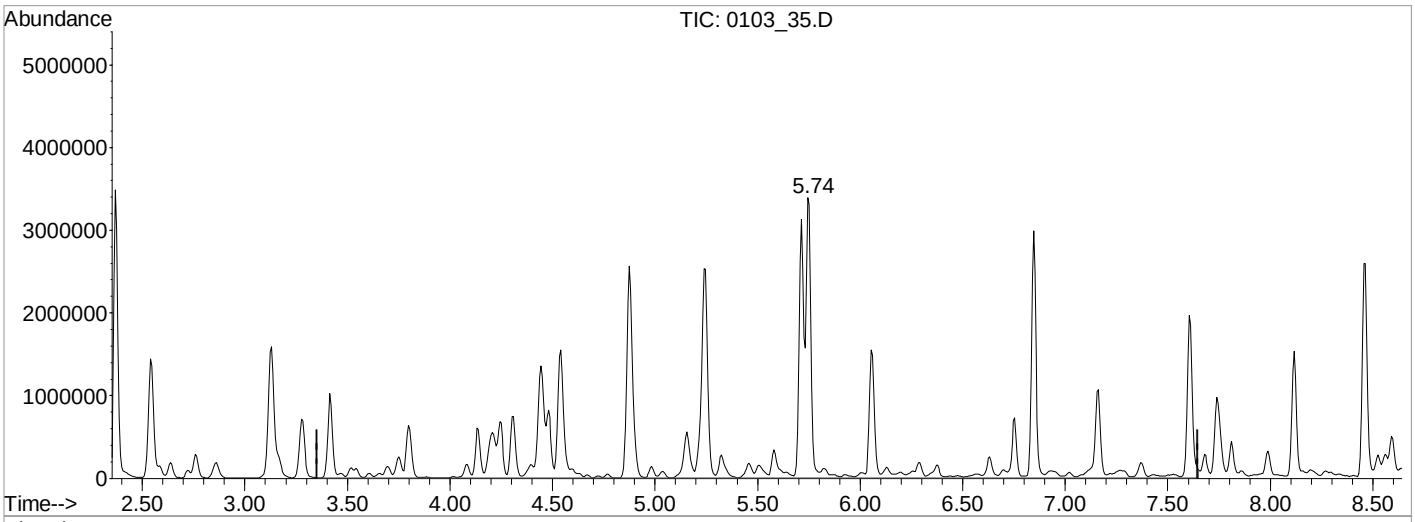
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration



TIC: 0103_35.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

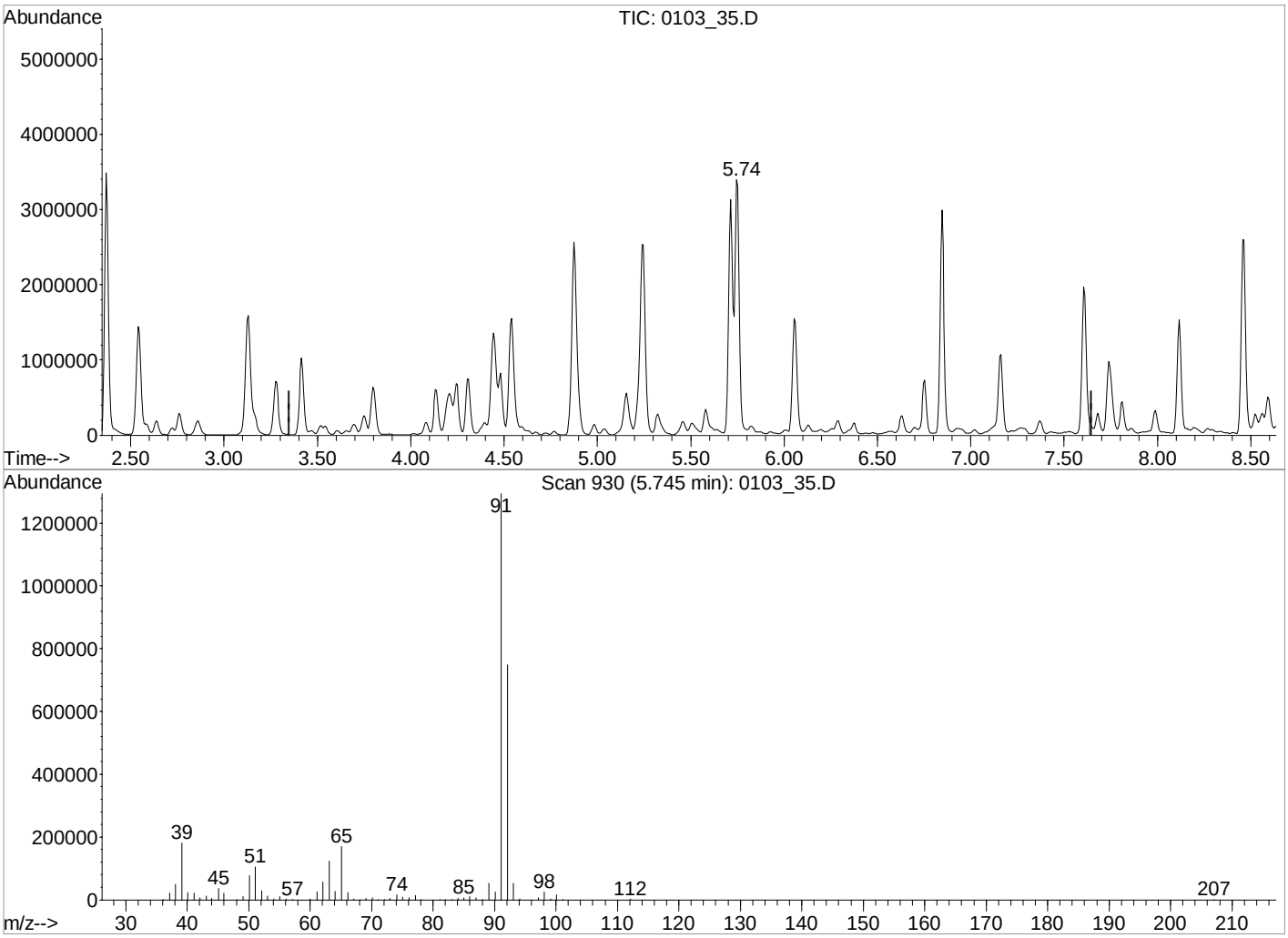
response -3341137

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-24.79#
0.00	0.00	-10.15#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_35.D Vial: 35
Acq On : 4 Jan 2017 12:11 am Operator: 605
Sample : STD GROMS 1 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:59 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration



TIC: 0103_35.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.74min (-0.255) 0.0000000 ppm m

response 60371133

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.37#
0.00	0.00	0.56#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:00:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	702365	40.00	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1301734	40.00	ppb		0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	246107	40.00	ppb		0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	548239	40.00	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	703581	40.00	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1301734	40.00	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	246107	40.00	ppb		0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	548239	40.00	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.31	111	384381	40.5893723	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.47%				
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	671052	41.6594385	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.15%				
58) TOLUENE-D8	5.71	98	1686200	41.8678182	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.67%				
76) 4-BROMOFLUOROBENZENE	7.60	95	619293	41.0135962	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.53%				
Target Compounds							Qvalue
4) PROPENE	1.76	41	1577	0.2337410	ppb	#	64
6) CHLOROMETHANE	2.02	50	30017	2.1642746	ppb	#	68
8) 1,3-BUTADIENE	2.08	39	23636	2.5914033	ppb	#	12
9) BROMOMETHANE	2.35	94	1807	0.2001703	ppb	#	94
12) DICHLOROFLUOROMETHANE	2.58	67	2907	0.1700232	ug/l	#	1
14) ACROLEIN	3.13	56	115086	714.4106557	ppb	#	23
17) ACETONE	3.28	43	199287	65.1731985	ppb	#	78
18) IODOMETHANE	3.03	142	5996	0.6559684	ppb	#	86
22) METHYL ACETATE	3.41	43	535388	73.2457696	ppb	#	57
23) ACRYLONITRILE	3.75	53	6846	1.9787890	ppb	#	44
24) n-HEXANE	3.41	56	450133	53.1562037	ppb	#	53
26) METHYL TERT-BUTYL ETHER	3.43	73	5566	0.2216028	ppb	#	1
28) VINYL ACETATE	3.88	43	11218	0.6142409	ppb	#	77
33) 2-BUTANONE (MEK)	4.38	43	71684	14.3997851	ppb	#	63
35) TETRAHYDROFURAN	4.32	42	2903	0.5849143	ppb	#	1
36) CHLOROFORM	4.19	83	14614	1.0022183	ppb	#	1
37) CYCLOHEXANE	4.19	84	183467	13.4620917	ppb	#	1
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	2077934	63.8273682	ppb	#	89
43) n-Heptane	4.48	71	269644	33.1412391	ppb	#	98
44) BENZENE	4.55	78	531086	15.4553382	ppb		99
45) TERT-AMYL METHYL ETHER	4.55	73	10077	0.3844799	ppb	#	1
50) METHYL CYCLOHEXANE	4.89	83	327312	18.6404902	ppb	#	51
53) BROMODICHLOROMETHANE	5.26	83	9374	0.8299276	ppb	#	1
57) 4-METHYL-2-PENTANONE (MIBK	5.93	43	34523	3.7368099	ppb	#	43
59) TOLUENE	5.75	91	4123301	115.8395085	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	12920	1.0164701	ppb	#	1
62) 1,1,2-TRICHLOROETHANE	6.11	97	11231	1.7043842	ppb	#	1
70) ETHYLBENZENE	6.75	106	276807	22.9003988	ppb		99
71) M&P-XYLENE	6.84	106	1479883	99.1040292	ppb		96
72) O-XYLENE	7.16	106	524539	37.4096937	ppb		98
73) STYRENE	7.16	104	27628	1.1968303	ppb	#	1
75) ISOPROPYLBENZENE	7.37	105	128136	3.2931381	ppb		98
77) BROMOBENZENE	7.74	77	184588	10.3910213	ppb	#	34
78) 1,1,2,2-TETRACHLOROETHANE	7.71	83	7470	0.7790480	ppb	#	47
79) 1,2,3-TRICHLOROPROPANE	7.86	110	1194	0.4453692	ppb	#	1

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:00:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

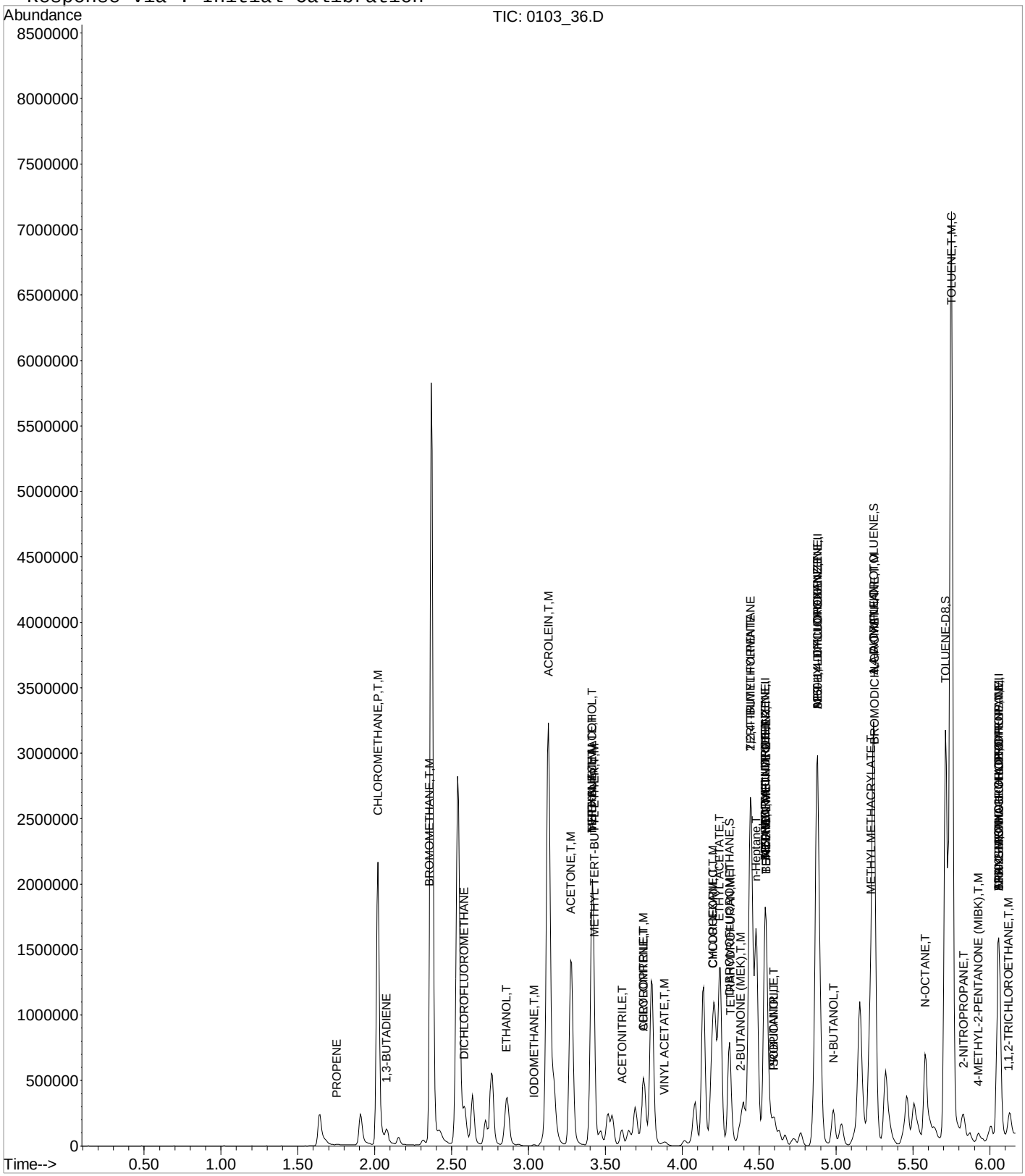
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	3441	1.0218634	ppb	#	31
81)	N-PROPYLBENZENE	7.68	91	361171	7.6740398	ppb		100
82)	4-ETHYLTOLUENE	7.74	105	1441518	38.4535099	ppb		98
83)	2-CHLOROTOLUENE	7.81	91	49382	1.5924568	ppb	#	49
84)	4-CHLOROTOLUENE	7.99	91	45500	1.6252255	ppb	#	52
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	425001	12.9432001	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	1508284	47.6182766	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	51136	1.2491843	ppb	#	80
90)	P-ISOPROPYLTOLUENE	8.27	119	74444	2.2672903	ppb	#	92
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	368432	11.3222137	ppb		98
96)	N-BUTYLBENZENE	8.63	91	72664	2.3538738	ppb	#	89
100)	NAPHTHALENE	10.29	128	116705	5.1232854	ppb	#	87
101)	1,2,3-TRICHLOROBENZENE	10.45	180	1061	0.1501823	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	68408	6.6786530	ppb		97
103)	2-METHYLNAPHTHALENE	11.30	142	33419	3.4308870	ppb		96
105)	ETHANOL	2.85	45	18669	210.9197781	ppb	#	89
108)	ACETONITRILE	3.61	41	39505	29.8597688	ppb	#	48
109)	TERT-BUTYL ALCOHOL	3.41	59	313	0.2336792	ppb	#	1
110)	CHLOROPRENE	3.75	53	6846	0.5105282	ppb	#	29
111)	PROPIONITRILE	4.59	54	7948	4.9330641	ppb	#	1
112)	ETHYL ACETATE	4.24	43	837505	82.5560888	ppb	#	51
113)	METHACRYLONITRILE	4.54	67	1140	0.3140050	ppb	#	1
114)	TERT-BUTYL FORMATE	4.45	59	1273	0.1722279	ppb	#	1
115)	ISOBUTANOL	4.59	43	10134	19.1052338	ppb	#	79
117)	N-BUTANOL	4.98	56	58495	234.3065370	ppb	#	54
118)	2-NITROPROPANE	5.83	43	37856	12.8223249	ppb		88
119)	METHYL METHACRYLATE	5.22	41	137856	13.5449114	ppb	#	19
120)	1,4-DIOXANE	5.24	88	10271	148.1371879	ppb	#	1
121)	N-OCTANE	5.59	85	93506	14.4538543	ppb		97
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	12325	30.8031086	ppb	#	50
124)	ETHYL METHACRYLATE	6.07	69	21246	2.1245859	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	9495	2.5540795	ppb	#	36
126)	CYCLOHEXANONE	7.92	55	4528	16.2049323	ppb	#	75
127)	PENTACHLOROETHANE	8.12	117	50410	11.7757803	ppb	#	14
128)	HEXACHLOROETHANE	8.78	117	2972	0.5646961	ppb	#	69

(#) = qualifier out of range (m) = manual integration
0103_36.D V808A03Q.M Wed Jan 04 11:00:38 2017 311 of 499 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: V808A03Q.RES

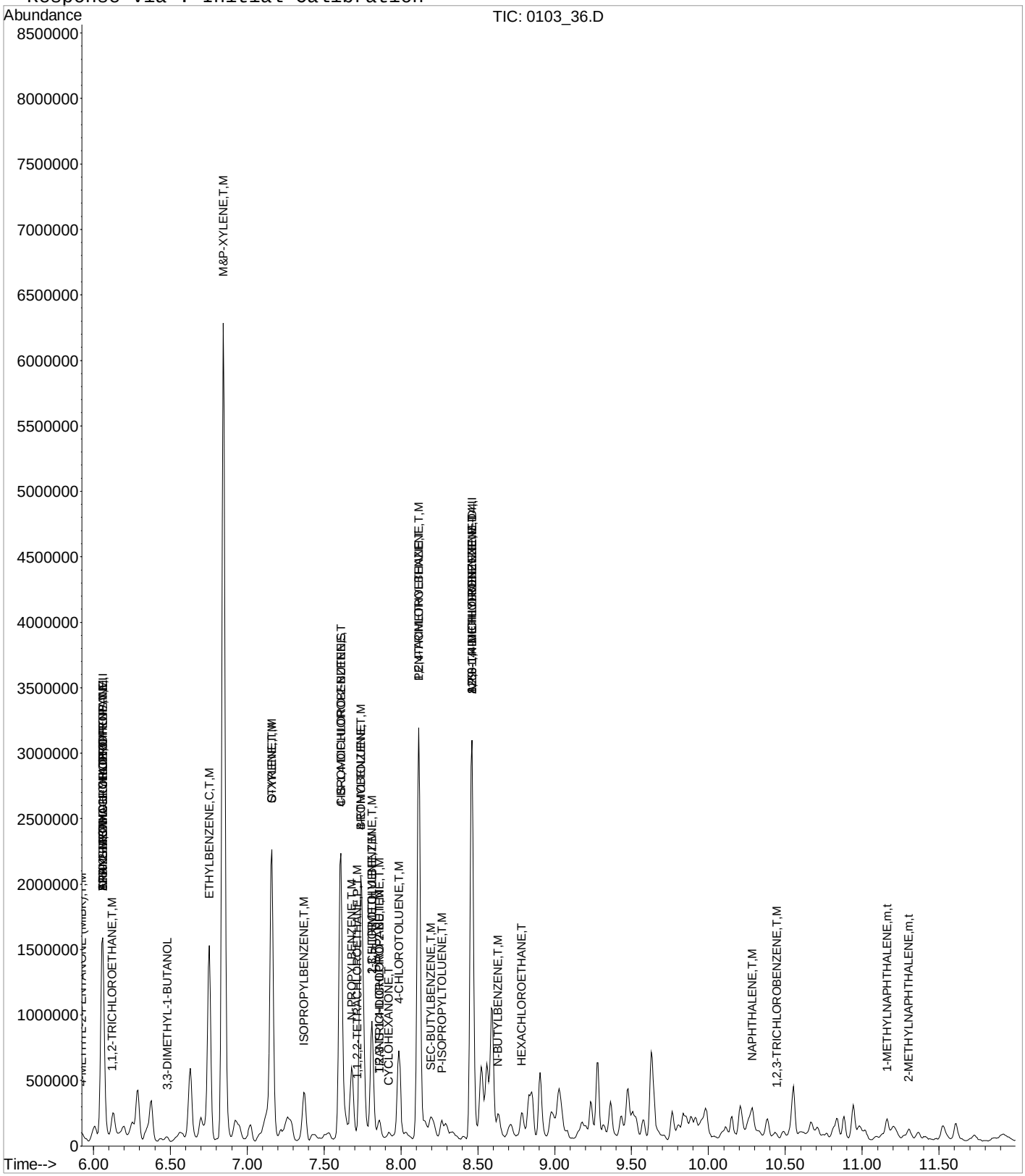
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: V808A03Q.RES

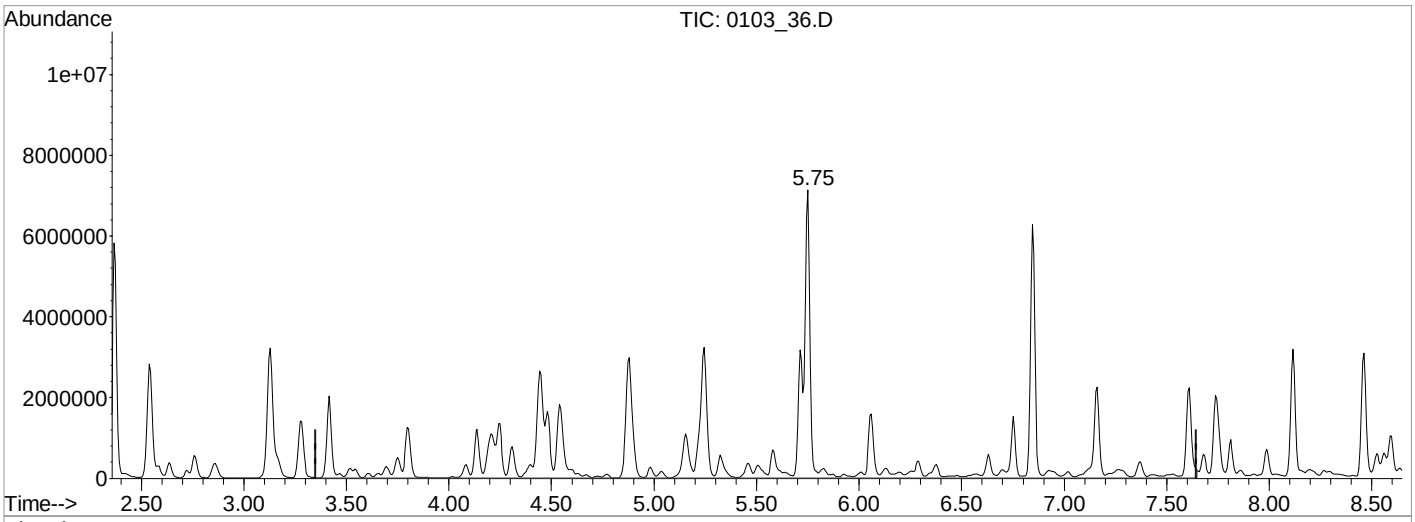
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

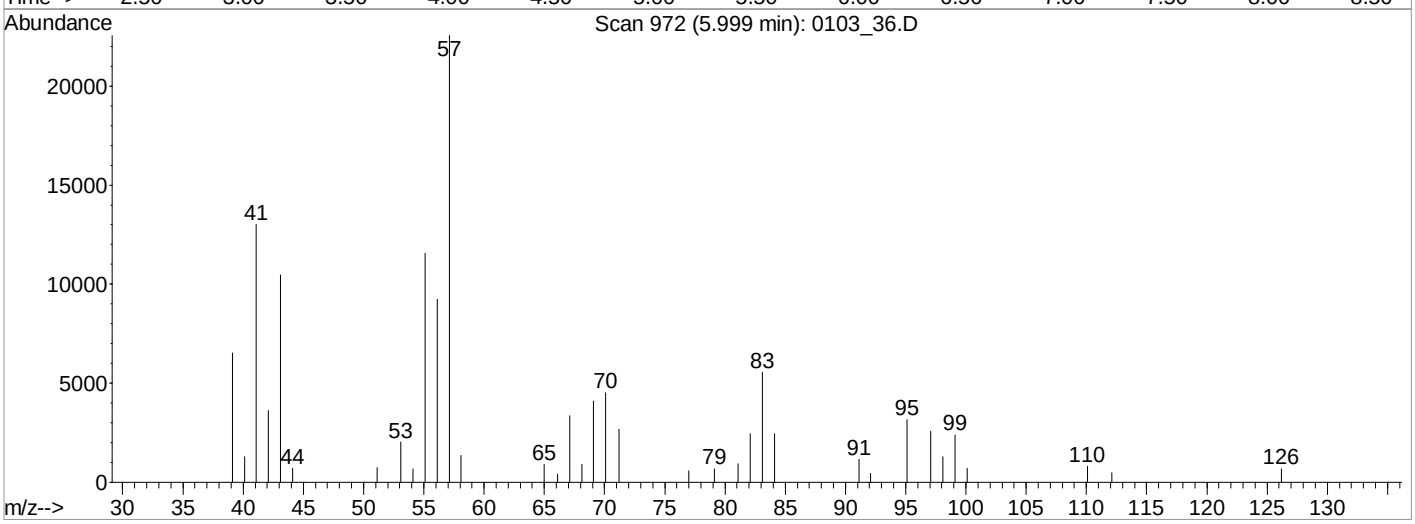


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_36.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

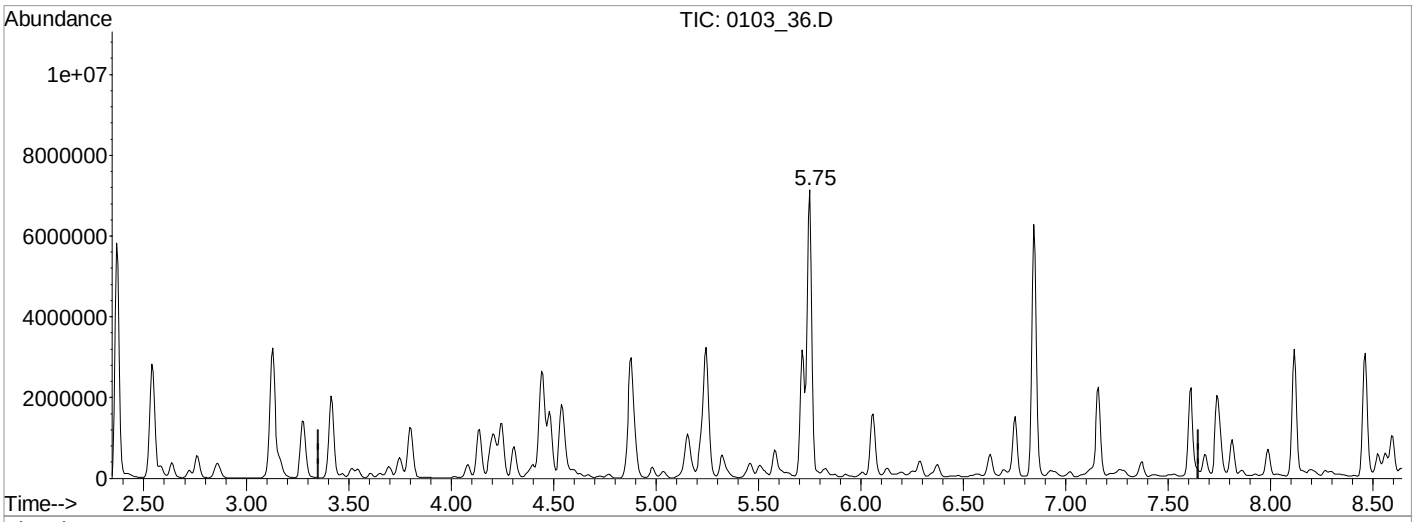
response 9878868

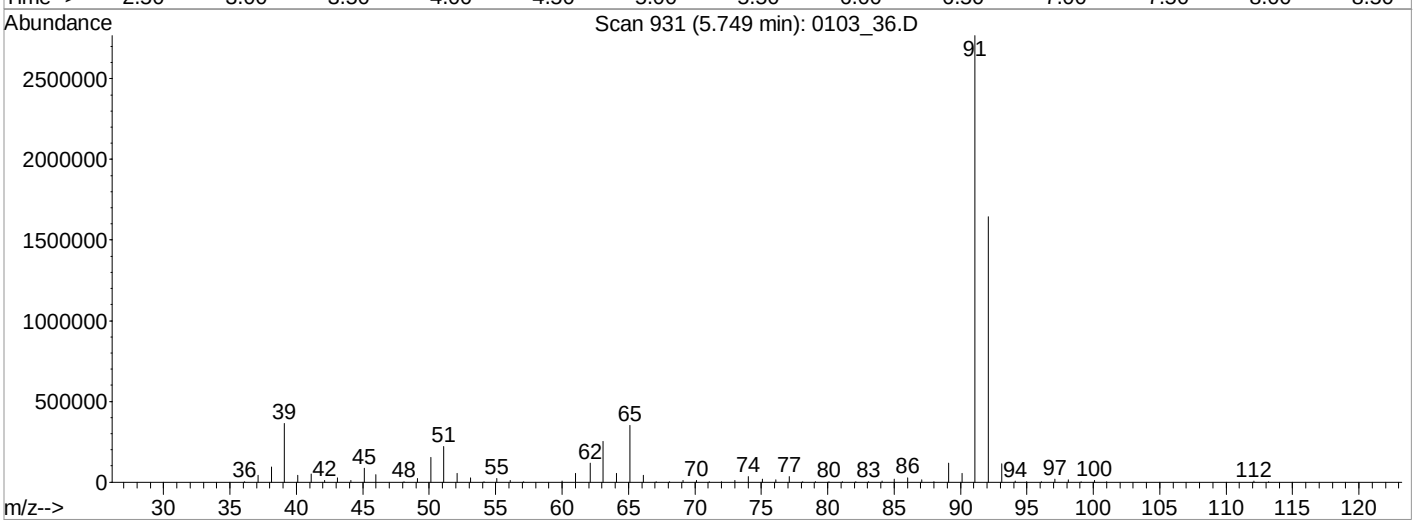
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	8.68#
0.00	0.00	3.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_36.D Vial: 36
Acq On : 4 Jan 2017 12:33 am Operator: 605
Sample : STD GROMS 2 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_36.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.75min (-0.251) 0.0000000 ppm m

response 102882546

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.83#
0.00	0.00	0.35#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:00:42 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	708122	40.00 ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1329448	40.00 ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	251192	40.00 ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	568919	40.00 ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	709374	40.00 ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1329448	40.00 ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	251192	40.00 ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	568919	40.00 ppb	0.00
System Monitoring Compounds					
38) DIBROMOFLUOROMETHANE	4.31	111	394434	41.3123158 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.28%		
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	686503	41.7302099 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.33%		
58) TOLUENE-D8	5.71	98	1713005	41.6467167 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.12%		
76) 4-BROMOFLUOROBENZENE	7.60	95	654409	42.4618690 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.15%		
Target Compounds					Qvalue
4) PROPENE	1.76	41	2367	0.3479816 ppb	# 63
6) CHLOROMETHANE	2.02	50	61708	4.4130751 ppb	# 70
8) 1,3-BUTADIENE	2.08	39	42900	4.6652304 ppb	# 13
9) BROMOMETHANE	2.35	94	1754	0.1927196 ppb	# 83
10) CHLOROETHANE	2.37	64	1129	0.1512572 ppb	# 1
12) DICHLOROFLUOROMETHANE	2.59	67	4889	0.2836208 ug/l	# 1
14) ACROLEIN	3.13	56	228689	1393.5360911 ppb	# 20
17) ACETONE	3.28	43	398861	129.3797817 ppb	# 79
18) IODOMETHANE	3.03	142	5863	0.6362033 ppb	# 95
22) METHYL ACETATE	3.41	43	1109432	150.5460540 ppb	# 57
23) ACRYLONITRILE	3.75	53	12584	3.6077470 ppb	# 40
24) n-HEXANE	3.41	56	933279	109.3149027 ppb	# 53
26) METHYL TERT-BUTYL ETHER	3.43	73	11315	0.4468290 ppb	# 1
28) VINYL ACETATE	3.88	43	18987	1.0311798 ppb	# 77
31) 2,2-DICHLOROPROPANE	4.14	77	2886	0.2250653 ppb	# 59
33) 2-BUTANONE (MEK)	4.37	43	149992	29.8852333 ppb	# 64
35) TETRAHYDROFURAN	4.33	42	6472	1.2934167 ppb	# 1
36) CHLOROFORM	4.19	83	28596	1.9451508 ppb	# 1
37) CYCLOHEXANE	4.19	84	378269	27.5302471 ppb	# 1
39) 1,1,1-TRICHLOROETHANE	4.40	97	2440	0.2036722 ppb	# 22
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	4303609	131.1181370 ppb	94
43) n-Heptane	4.48	71	549377	66.9735359 ppb	# 100
44) BENZENE	4.55	78	1073068	30.9738847 ppb	98
50) METHYL CYCLOHEXANE	4.89	83	662103	37.7224940 ppb	# 49
51) 1,2-DICHLOROPROPANE	5.18	62	2538	0.3890978 ppb	# 1
52) DIBROMOMETHANE	5.12	93	1349	0.2967906 ppb	# 1
53) BROMODICHLOROMETHANE	5.25	83	16099	1.3956132 ppb	# 1
55) 2-CHLOROETHYL VINYL ETHER	5.51	63	2732	0.4728317 ppb	# 1
57) 4-METHYL-2-PENTANONE (MIBK	5.93	43	91643	9.7127603 ppb	# 44
59) TOLUENE	5.75	91	8503250	233.9093100 ppb	99
62) 1,1,2-TRICHLOROETHANE	6.12	97	21568	3.2068386 ppb	# 1
65) 2-HEXANONE	6.47	58	1787	0.5054589 ppb	# 1
70) ETHYLBENZENE	6.75	106	573840	46.5130649 ppb	98
71) M&P-XYLENE	6.84	106	3155409	207.0321312 ppb	97
72) O-XYLENE	7.16	106	1095500	76.5485402 ppb	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:00:42 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

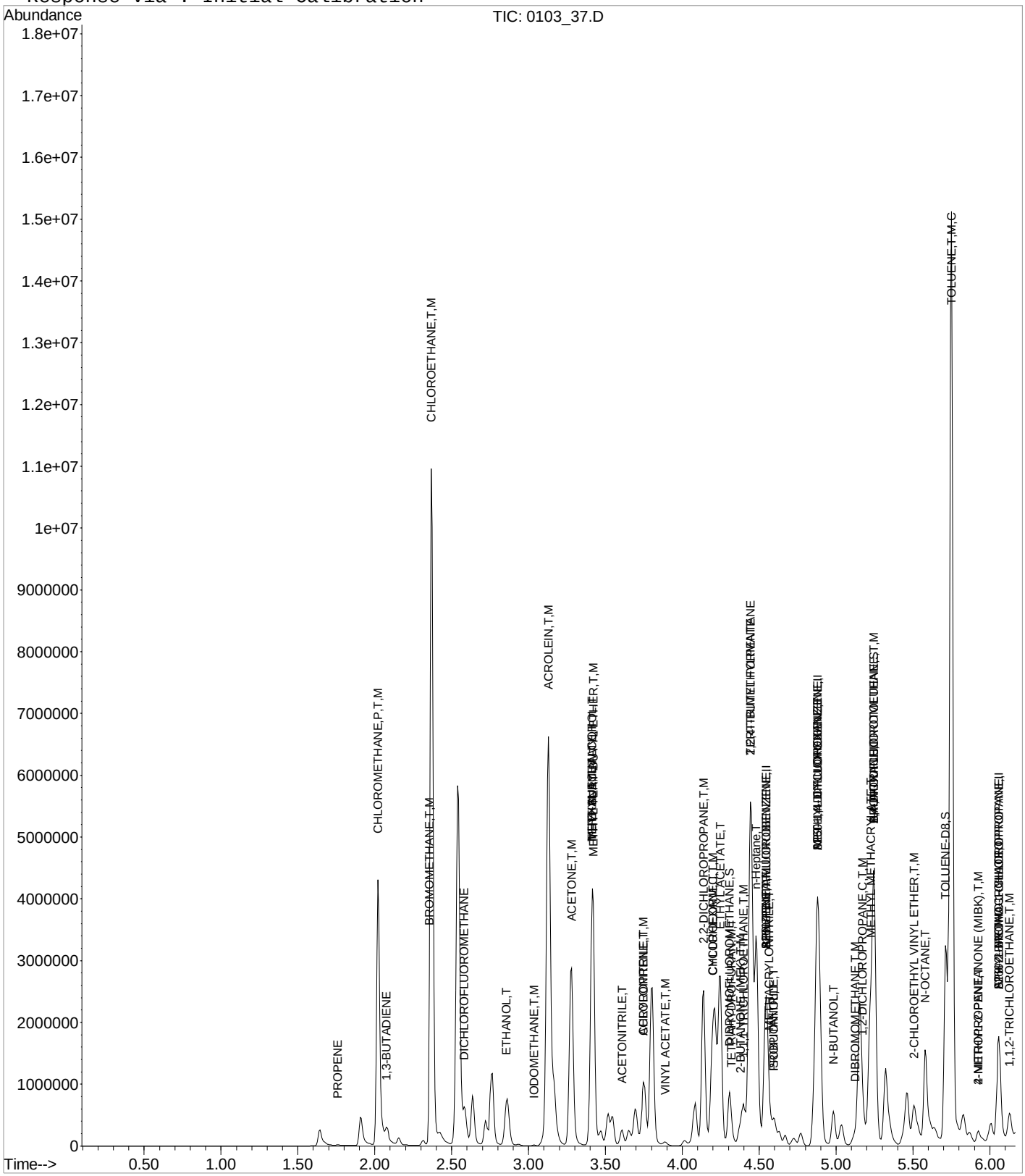
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
73)	STYRENE	7.16	104	57089	2.4230017	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	264348	6.6563014	ppb		100
77)	BROMOBENZENE	7.74	77	387413	21.3671759	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.70	83	22195	2.2678636	ppb	#	39
79)	1,2,3-TRICHLOROPROPANE	7.86	110	1970	0.7199466	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.87	53	5538	1.6113106	ppb	#	31
81)	N-PROPYLBENZENE	7.68	91	749566	15.6041176	ppb		100
82)	4-ETHYLTOLUENE	7.74	105	3004275	78.5188198	ppb		97
83)	2-CHLOROTOLUENE	7.81	91	98136	3.1005983	ppb	#	50
84)	4-CHLOROTOLUENE	7.99	91	93921	3.2868743	ppb	#	53
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	885292	26.4153528	ppb		100
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	3177007	98.2713413	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	101008	2.4175401	ppb	#	76
90)	P-ISOPROPYLTOLUENE	8.27	119	151827	4.5304840	ppb		95
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	755287	22.3668849	ppb		100
96)	N-BUTYLBENZENE	8.63	91	152667	4.7657202	ppb	#	92
100)	NAPHTHALENE	10.29	128	247592	10.4740629	ppb	#	85
101)	1,2,3-TRICHLOROBENZENE	10.44	180	4843	0.6605983	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	155181	14.5995685	ppb	#	95
103)	2-METHYLNAPHTHALENE	11.30	142	74757	7.3957856	ppb		97
105)	ETHANOL	2.85	45	35926	402.5723585	ppb	#	94
108)	ACETONITRILE	3.61	41	82972	62.2020603	ppb	#	48
109)	TERT-BUTYL ALCOHOL	3.42	59	699	0.5175970	ppb	#	1
110)	CHLOROPRENE	3.75	53	13140	0.9718899	ppb	#	29
111)	PROPIONITRILE	4.59	54	13987	8.6103799	ppb	#	1
112)	ETHYL ACETATE	4.24	43	1700544	166.2602428	ppb	#	50
113)	METHACRYLONITRILE	4.57	67	10003	2.7327554	ppb	#	1
114)	TERT-BUTYL FORMATE	4.44	59	3041	0.4080658	ppb	#	1
115)	ISOBUTANOL	4.59	43	23063	43.1247004	ppb	#	79
117)	N-BUTANOL	4.98	56	120650	473.1990669	ppb	#	54
118)	2-NITROPROPANE	5.93	43	91643	30.3936071	ppb	#	50
119)	METHYL METHACRYLATE	5.22	41	295312	28.4107360	ppb	#	19
120)	1,4-DIOXANE	5.24	88	10335	145.9529043	ppb	#	1
121)	N-OCTANE	5.58	85	207058	31.3391420	ppb		96
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	32714	65.6363991	ppb	#	40
124)	ETHYL METHACRYLATE	6.07	69	40844	4.0016910	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	25319	6.6727393	ppb	#	36
126)	CYCLOHEXANONE	7.93	55	10754	37.7076092	ppb	#	66
127)	PENTACHLOROETHANE	8.11	117	104838	23.9943996	ppb	#	14
128)	HEXACHLOROETHANE	8.78	117	3520	0.6552799	ppb	#	58

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

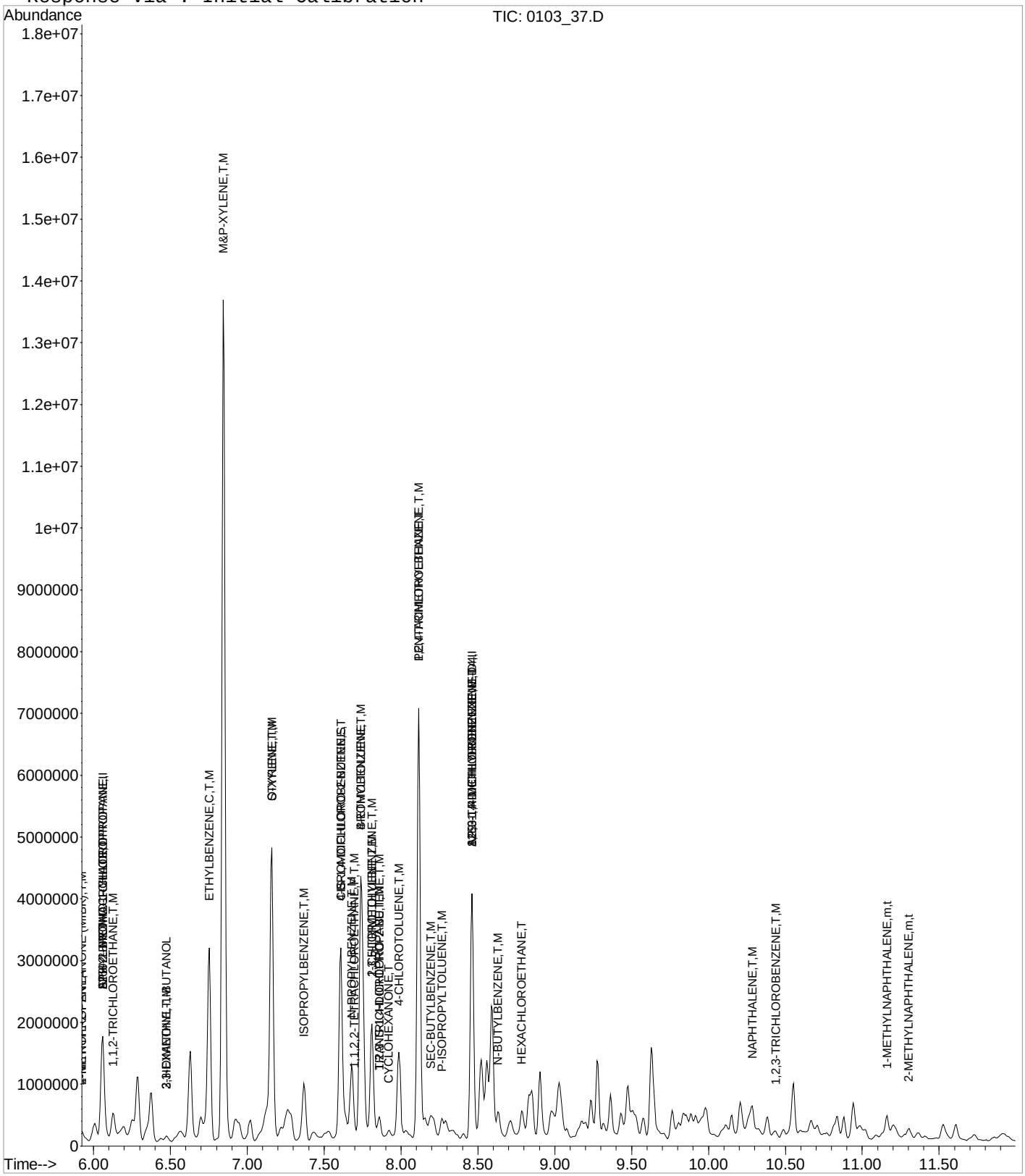


0103_37.D V808A03Q.M Wed Jan 04 11:01:08 2017 318 of 499 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: V808A03Q.RES

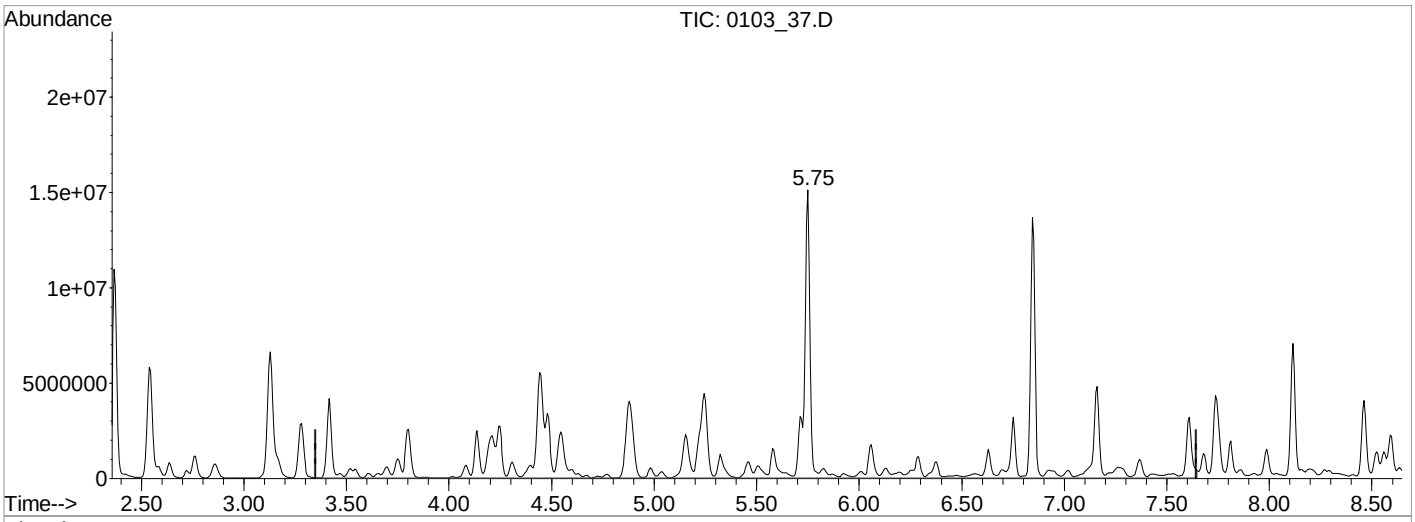
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

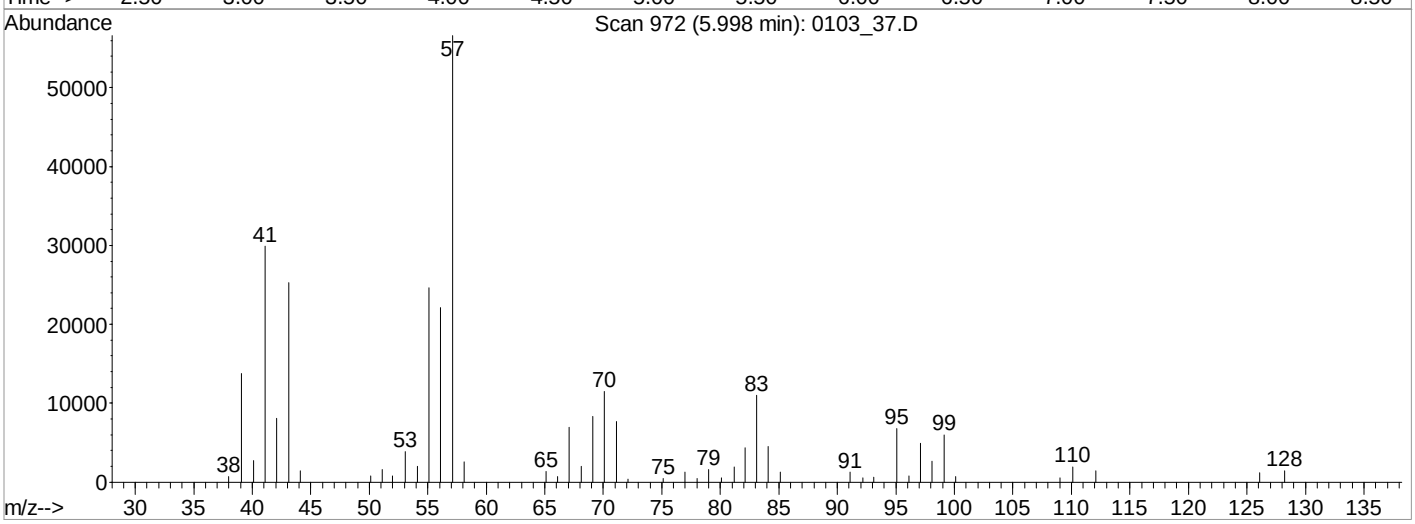


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_37.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

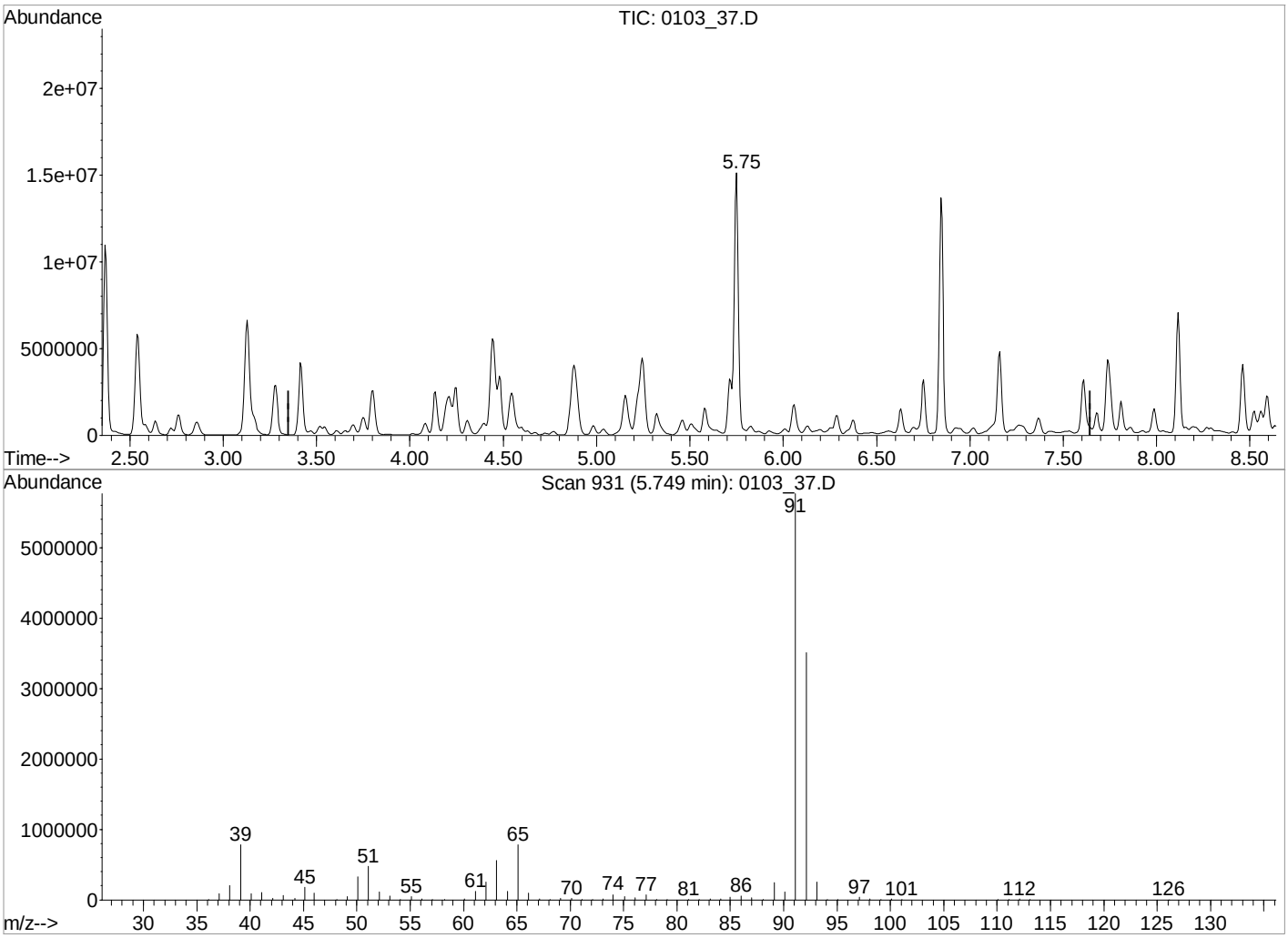
response 53066739

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.68#
0.00	0.00	0.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_37.D Vial: 37
Acq On : 4 Jan 2017 12:56 am Operator: 605
Sample : STD GROMS 4 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:00 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration



TIC: 0103_37.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.75min (-0.251) 0.0000000 ppm m

response 195974716

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.45#
0.00	0.00	0.19#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:01:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	721265	40.00	ppb	-0.01
48) 8260-1,4-DIFLUOROBENZENE	4.88	114	1367770	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	257985	40.00	ppb	-0.01
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	569167	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	722938	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.88	114	1367770	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	257985	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	569167	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.30	111	393192	40.4318021	ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.08%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	692053	40.8889319	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.22%			
58) TOLUENE-D8	5.72	98	1727017	40.8109807	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.03%			
76) 4-BROMOFLUOROBENZENE	7.61	95	658758	41.6185642	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.05%			
Target Compounds						Qvalue
4) PROPENE	1.76	41	2900	0.4185711	ppb	# 66
6) CHLOROMETHANE	2.02	50	75767	5.3197739	ppb	# 68
8) 1,3-BUTADIENE	2.08	39	58847	6.2828018	ppb	# 13
9) BROMOMETHANE	2.35	94	1633	0.1761553	ppb	# 93
10) CHLOROETHANE	2.37	64	1625	0.2137414	ppb	# 1
12) DICHLOROFLUOROMETHANE	2.58	67	6561	0.3736812	ug/l	# 1
14) ACROLEIN	3.13	56	296575	1770.1832959	ppb	# 13
17) ACETONE	3.28	43	509496	162.2552837	ppb	# 78
18) IODOMETHANE	3.03	142	5906	0.6291913	ppb	# 87
22) METHYL ACETATE	3.42	43	1398733	186.3445685	ppb	# 57
23) ACRYLONITRILE	3.75	53	14063	3.9582988	ppb	# 44
24) n-HEXANE	3.42	56	1184657	136.2303063	ppb	# 53
26) METHYL TERT-BUTYL ETHER	3.43	73	14081	0.5459257	ppb	# 1
27) 1,1-DICHLOROETHANE	3.75	63	2432	0.1516743	ppb	# 50
28) VINYL ACETATE	3.89	43	26931	1.4359647	ppb	# 80
33) 2-BUTANONE (MEK)	4.37	43	183772	35.9485292	ppb	# 64
35) TETRAHYDROFURAN	4.32	42	6818	1.3377353	ppb	# 1
36) CHLOROFORM	4.19	83	36906	2.4646667	ppb	# 1
37) CYCLOHEXANE	4.20	84	479291	34.2469470	ppb	# 1
39) 1,1,1-TRICHLOROETHANE	4.40	97	3401	0.2787160	ppb	# 22
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	5248362	156.9881871	ppb	96
43) n-Heptane	4.48	71	689424	82.5149008	ppb	# 91
44) BENZENE	4.55	78	1378707	39.0709205	ppb	99
45) TERT-AMYL METHYL ETHER	4.55	73	25329	0.9410842	ppb	# 44
50) METHYL CYCLOHEXANE	4.89	83	832664	46.2925969	ppb	# 49
51) 1,2-DICHLOROPROPANE	5.17	62	3775	0.5625257	ppb	# 1
52) DIBROMOMETHANE	5.12	93	1656	0.3541252	ppb	# 1
53) BROMODICHLOROMETHANE	5.25	83	19308	1.6269033	ppb	# 1
55) 2-CHLOROETHYL VINYL ETHER	5.51	63	3547	0.5966854	ppb	# 1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	100278	10.3301665	ppb	# 45
59) TOLUENE	5.75	91	10868642	290.6003446	ppb	98
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	13804	1.0335850	ppb	# 1
62) 1,1,2-TRICHLOROETHANE	6.12	97	29005	4.1990539	ppb	# 1
65) 2-HEXANONE	6.48	58	1898	0.5227197	ppb	# 1
66) CHLORODIBROMOMETHANE	6.29	129	1353	0.1929781	ppb	# 36

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:01:14 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

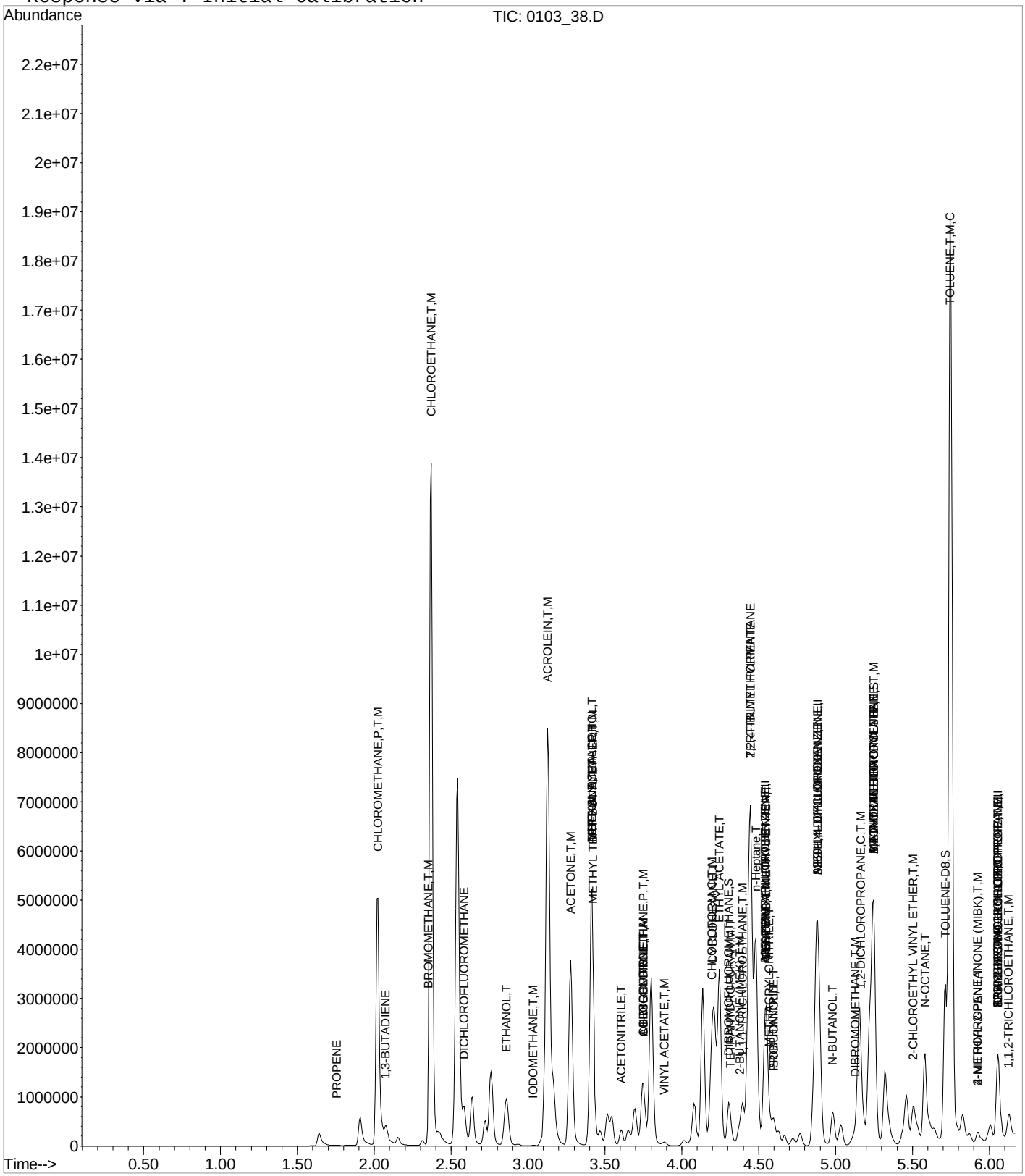
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	ETHYLBENZENE	6.75	106	744330	58.7436613	ppb		100
71)	M&P-XYLENE	6.85	106	4090733	261.3331933	ppb		98
72)	O-XYLENE	7.16	106	1403058	95.4578181	ppb		100
73)	STYRENE	7.16	104	72656	3.0025076	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	334593	8.2032349	ppb		99
77)	BROMOBENZENE	7.68	77	34171	1.8350249	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.70	83	25155	2.5026346	ppb	#	44
79)	1,2,3-TRICHLOROPROPANE	7.86	110	4143	1.4742133	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	8989	2.5465314	ppb	#	31
81)	N-PROPYLBENZENE	7.68	91	933224	18.9158815	ppb		99
82)	4-ETHYLTOLUENE	7.74	105	3883401	98.8229162	ppb		97
83)	2-CHLOROTOLUENE	7.81	91	125389	3.8573402	ppb	#	51
84)	4-CHLOROTOLUENE	7.98	91	118467	4.0367246	ppb	#	53
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	1147186	33.3284459	ppb		98
86)	TERT-BUTYLBENZENE	8.11	119	471141	16.7677398	ppb	#	68
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	4028564	121.3305951	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	133242	3.1050630	ppb	#	79
90)	P-ISOPROPYLTOLUENE	8.26	119	182901	5.3140180	ppb		95
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	961539	28.4623742	ppb		100
96)	N-BUTYLBENZENE	8.63	91	193498	6.0376867	ppb	#	92
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.57	157	705	0.4259745	ppb	#	14
98)	1,2,4-TRICHLOROBENZENE	10.04	180	1877	0.2361916	ppb	#	65
100)	NAPHTHALENE	10.28	128	327785	13.8604833	ppb	#	86
101)	1,2,3-TRICHLOROBENZENE	10.44	180	2077	0.2831850	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	201334	18.9334310	ppb	#	90
103)	2-METHYLNAPHTHALENE	11.30	142	99597	9.8489387	ppb		94
105)	ETHANOL	2.85	45	40997	450.7766146	ppb	#	89
108)	ACETONITRILE	3.61	41	99766	73.3888335	ppb	#	47
109)	TERT-BUTYL ALCOHOL	3.42	59	1421	1.0324828	ppb	#	1
110)	CHLOROPRENE	3.75	53	14063	1.0206431	ppb	#	29
111)	PROPIONITRILE	4.59	54	19344	11.6847180	ppb	#	1
112)	ETHYL ACETATE	4.24	43	2152316	206.4813280	ppb	#	50
113)	METHACRYLONITRILE	4.57	67	11546	3.0951112	ppb	#	1
114)	TERT-BUTYL FORMATE	4.44	59	4437	0.5842214	ppb	#	1
115)	ISOBUTANOL	4.59	43	30977	56.8360466	ppb	#	79
117)	N-BUTANOL	4.98	56	153949	586.8832392	ppb	#	56
118)	2-NITROPROPANE	5.92	43	100278	32.3256221	ppb	#	53
119)	METHYL METHACRYLATE	5.25	41	421814	39.4439737	ppb	#	57
120)	1,4-DIOXANE	5.25	88	10529	144.5265604	ppb	#	1
121)	N-OCTANE	5.58	85	249869	36.7591743	ppb		96
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	36047	69.6569055	ppb	#	42
124)	ETHYL METHACRYLATE	6.06	69	50599	4.8269029	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	28744	7.3759193	ppb	#	37
126)	CYCLOHEXANONE	7.92	55	9848	33.6215982	ppb	#	78
127)	PENTACHLOROETHANE	8.12	117	135246	30.1388680	ppb	#	14
128)	HEXACHLOROETHANE	8.79	117	5925	1.0739496	ppb	#	79

(#) = qualifier out of range (m) = manual integration
0103_38.D V808A03Q.M Wed Jan 04 11:01:39 2017 323 of 499 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: V808A03Q.RES

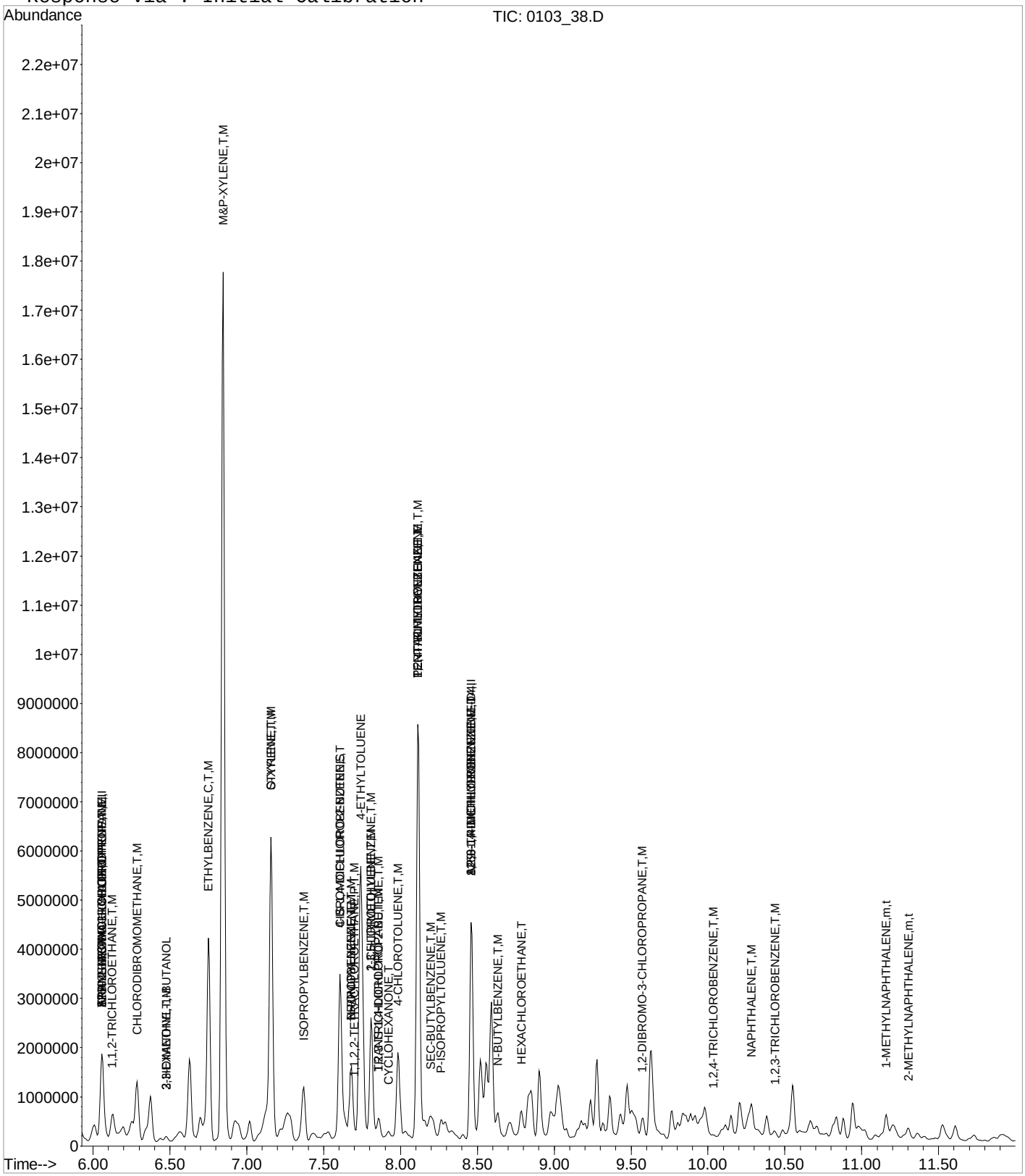
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: V808A03Q.RES

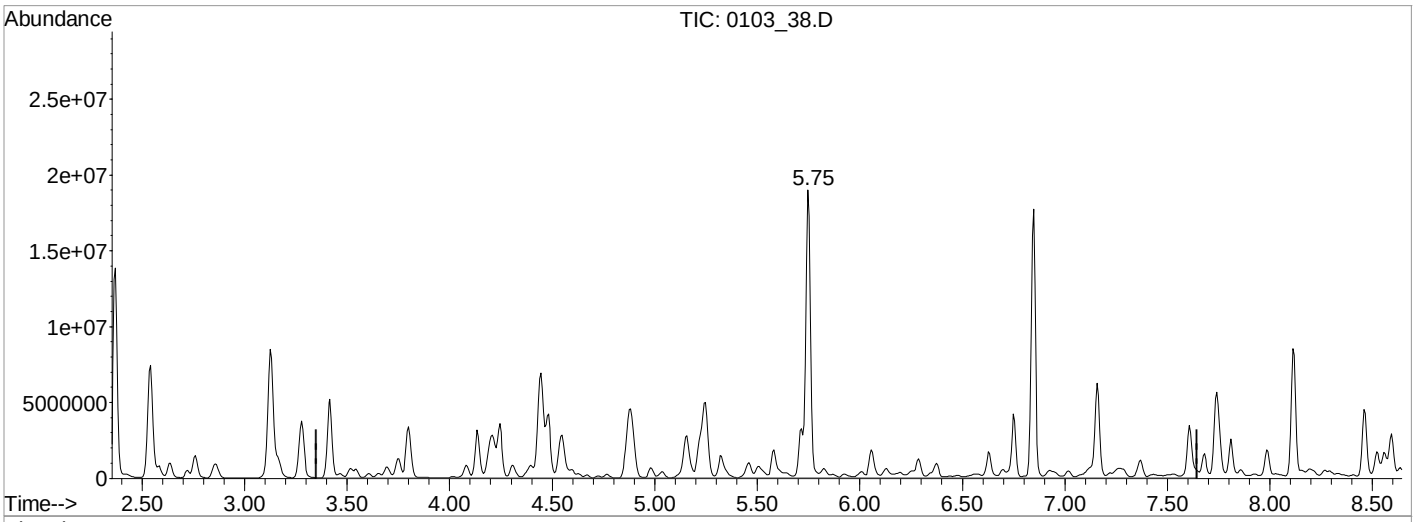
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

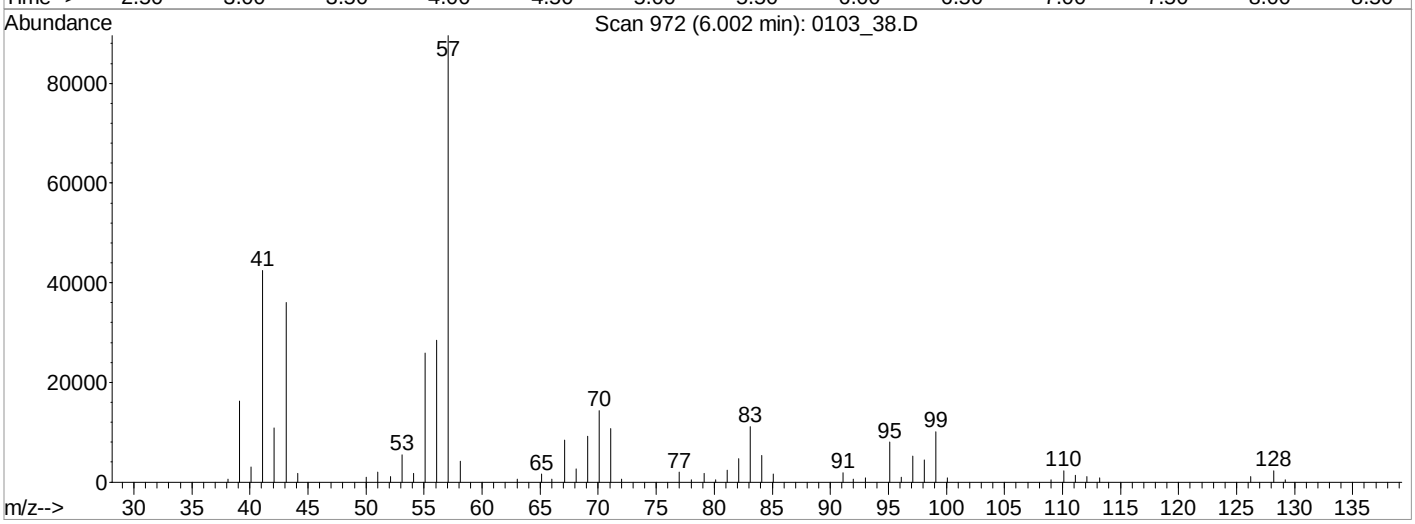


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_38.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

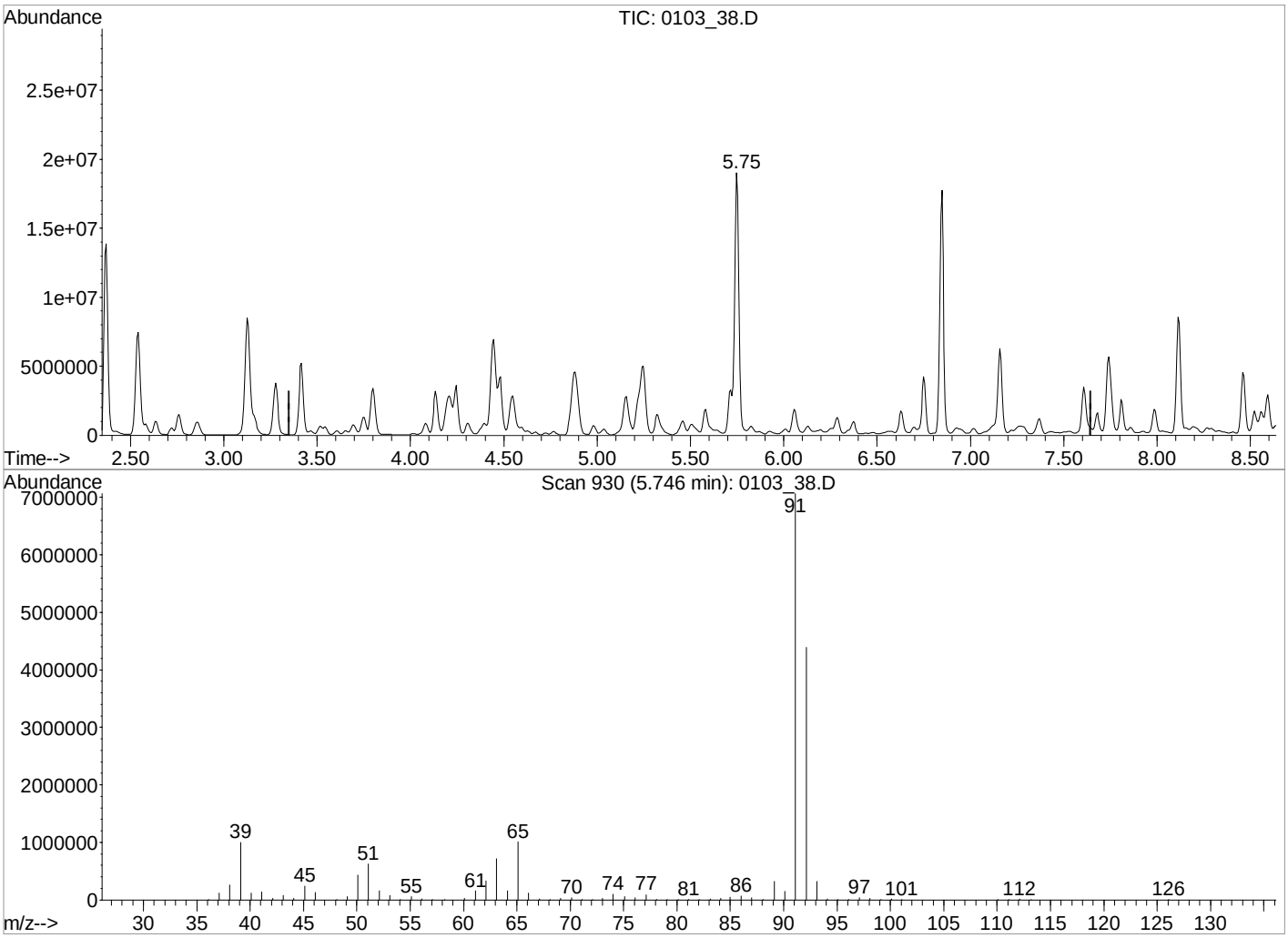
response 70853917

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.26#
0.00	0.00	0.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_38.D Vial: 38
Acq On : 4 Jan 2017 1:19 am Operator: 605
Sample : MSTD GROMS 5.0 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration



TIC: 0103_38.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.75min (-0.254) 0.0000000 ppm m

response 240067407

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.37#
0.00	0.00	0.16#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:01:42 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	734604	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1389942	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	263317	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	577409	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	735506	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1389942	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	263317	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	577409	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	400380	40.4233564	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.06%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	702201	40.8266974	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.07%			
58) TOLUENE-D8	5.71	98	1786660	41.5469100	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.87%			
76) 4-BROMOFLUOROBENZENE	7.61	95	671407	41.5587631	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.90%			
Target Compounds						Qvalue
4) PROPENE	1.76	41	3758	0.5325613	ppb #	70
6) CHLOROMETHANE	2.02	50	110138	7.5926230	ppb #	68
8) 1,3-BUTADIENE	2.08	39	78942	8.2752043	ppb #	13
9) BROMOMETHANE	2.34	94	1454	0.1539982	ppb #	89
10) CHLOROETHANE	2.37	64	1839	0.2374973	ppb #	1
12) DICHLOROFLUOROMETHANE	2.58	67	9240	0.5167075	ug/l #	1
14) ACROLEIN	3.13	56	422911	2472.4258195	ppb #	18
17) ACETONE	3.28	43	732740	229.1128981	ppb #	79
18) IODOMETHANE	3.03	142	6416	0.6711123	ppb #	90
21) METHYLENE CHLORIDE	3.29	84	1202	0.1470102	ppb #	1
22) METHYL ACETATE	3.41	43	2022009	264.4883645	ppb #	57
23) ACRYLONITRILE	3.75	53	19163	5.2958499	ppb #	43
24) n-HEXANE	3.41	56	1714213	193.5474535	ppb #	53
26) METHYL TERT-BUTYL ETHER	3.43	73	20044	0.7630026	ppb #	1
27) 1,1-DICHLOROETHANE	3.74	63	2464	0.1508797	ppb #	1
28) VINYL ACETATE	3.88	43	31920	1.6710742	ppb #	86
31) 2,2-DICHLOROPROPANE	4.13	77	4615	0.3469274	ppb #	59
33) 2-BUTANONE (MEK)	4.38	43	265481	50.9890356	ppb #	64
35) TETRAHYDROFURAN	4.32	42	9290	1.7896598	ppb #	1
36) CHLOROFORM	4.20	83	51560	3.3807705	ppb #	1
37) CYCLOHEXANE	4.19	84	693730	48.6692476	ppb #	1
39) 1,1,1-TRICHLOROETHANE	4.40	97	4519	0.3636128	ppb #	25
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	7105112	208.6679212	ppb	94
43) n-Heptane	4.48	71	939258	110.3754421	ppb #	98
44) BENZENE	4.55	78	2010124	55.9301624	ppb	98
45) TERT-AMYL METHYL ETHER	4.55	73	34997	1.2766823	ppb #	53
50) METHYL CYCLOHEXANE	4.89	83	1181067	64.9384318	ppb #	52
51) 1,2-DICHLOROPROPANE	5.17	62	6027	0.8837776	ppb #	1
52) DIBROMOMETHANE	5.18	93	5718	1.2032533	ppb #	1
53) BROMODICHLOROMETHANE	5.25	83	25006	2.0734094	ppb #	1
55) 2-CHLOROETHYL VINYL ETHER	5.50	63	3742	0.6194473	ppb #	1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	111378	11.2906116	ppb #	45
59) TOLUENE	5.74	91	14511457	381.8108415	ppb	89
60) TRANS-1,3-DICHLOROPROPENE	6.05	75	13893	1.0236552	ppb #	1
62) 1,1,2-TRICHLOROETHANE	6.12	97	41848	5.9356576	ppb #	1

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:01:42 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

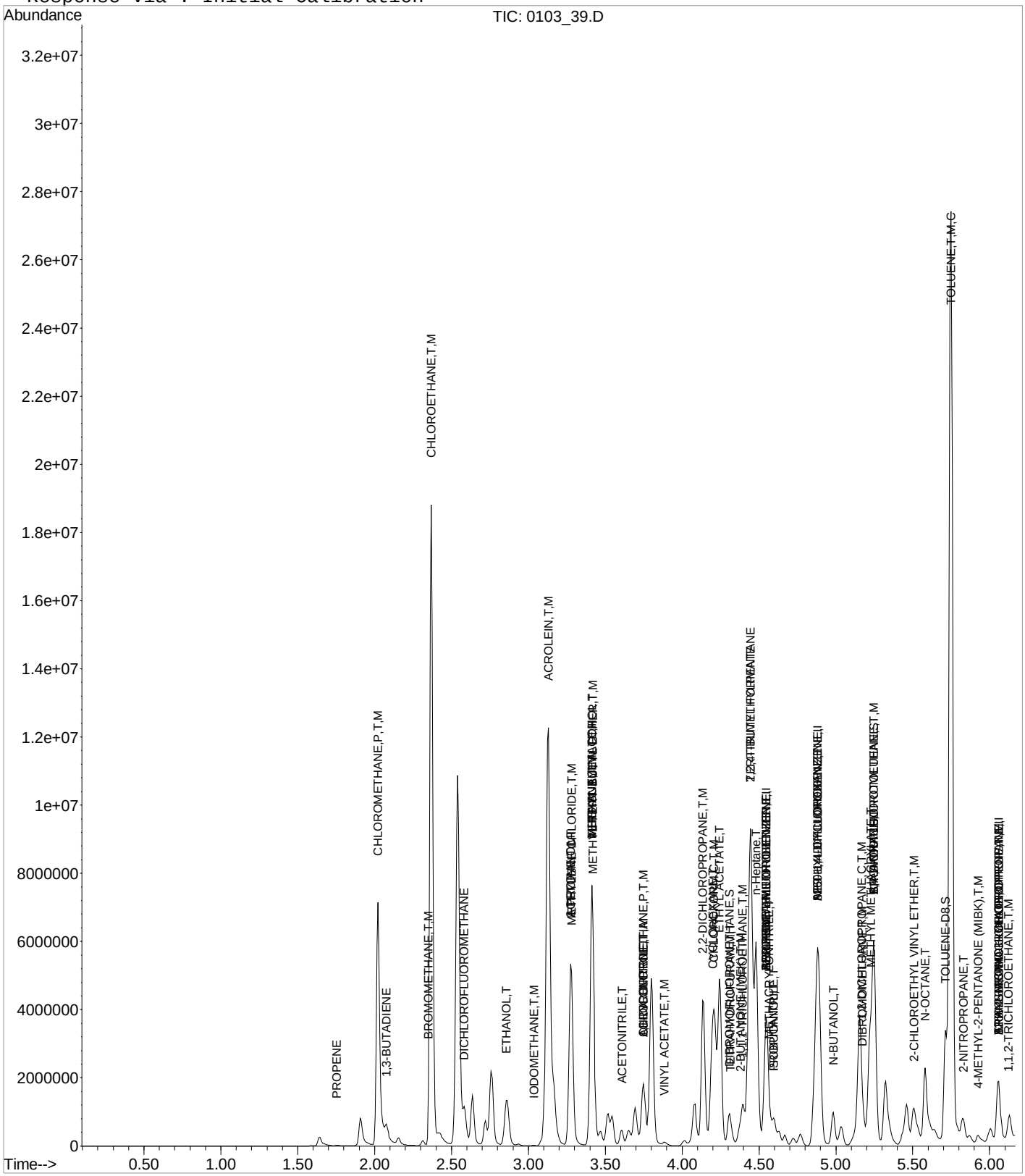
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
65)	2-HEXANONE	6.47	58	1922	0.5186109	ppb	#	1
66)	CHLORODIBROMOMETHANE	6.29	129	2332	0.3258775	ppb	#	30
70)	ETHYLBENZENE	6.75	106	1084873	83.8860888	ppb		100
71)	M&P-XYLENE	6.84	106	6134429	383.9574886	ppb		97
72)	O-XYLENE	7.16	106	2064055	137.5855112	ppb		100
73)	STYRENE	7.16	104	106298	4.3038118	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	488214	11.7271933	ppb		100
77)	BROMOBENZENE	7.74	77	733043	38.5681929	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.70	83	23513	2.2919056	ppb	#	44
79)	1,2,3-TRICHLOROPROPANE	7.85	110	2364	0.8241541	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.85	53	9232	2.5624123	ppb	#	32
81)	N-PROPYLBENZENE	7.68	91	1372733	27.2610335	ppb		99
82)	4-ETHYLTOLUENE	7.74	105	5705621	142.2538092	ppb		98
83)	2-CHLOROTOLUENE	7.81	91	179615	5.4136063	ppb	#	50
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	1647750	46.9016479	ppb		98
87)	1,2,4-TRIMETHYLBENZENE	8.12	105	5986042	176.6344364	ppb		99
88)	SEC-BUTYLBENZENE	8.20	105	183657	4.1932650	ppb	#	78
90)	P-ISOPROPYLTOLUENE	8.27	119	259189	7.3780070	ppb	#	85
94)	1,2,3-TRIMETHYLBENZENE	8.46	105	1399682	40.8403787	ppb		98
96)	N-BUTYLBENZENE	8.63	91	272839	8.3918305	ppb	#	90
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.59	157	380	0.2263259	ppb	#	1
98)	1,2,4-TRICHLOROBENZENE	10.00	180	1362	0.1689404	ppb	#	12
100)	NAPHTHALENE	10.28	128	433645	18.0750623	ppb	#	88
101)	1,2,3-TRICHLOROBENZENE	10.44	180	4089	0.5495497	ppb	#	19
102)	1-METHYLNAPHTHALENE	11.16	142	277243	25.6997531	ppb		95
103)	2-METHYLNAPHTHALENE	11.30	142	132456	12.9113298	ppb		95
105)	ETHANOL	2.85	45	56154	606.8828023	ppb	#	92
107)	2-PROPANOL	3.28	45	182	0.3170100	ppb	#	1
108)	ACETONITRILE	3.61	41	144377	104.3903302	ppb	#	48
109)	TERT-BUTYL ALCOHOL	3.41	59	2272	1.6226016	ppb	#	1
110)	CHLOROPRENE	3.75	53	20244	1.4441326	ppb	#	29
111)	PROPIONITRILE	4.59	54	25765	15.2973757	ppb	#	1
112)	ETHYL ACETATE	4.24	43	3002021	283.0761692	ppb	#	51
113)	METHACRYLONITRILE	4.57	67	18537	4.8842624	ppb	#	1
114)	TERT-BUTYL FORMATE	4.45	59	5871	0.7598274	ppb	#	1
115)	ISOBUTANOL	4.59	43	41564	74.9577730	ppb	#	79
117)	N-BUTANOL	4.98	56	208345	781.5815745	ppb	#	54
118)	2-NITROPROPANE	5.84	43	119115	37.7854047	ppb		92
119)	METHYL METHACRYLATE	5.22	41	471369	43.3747599	ppb	#	19
120)	1,4-DIOXANE	5.24	88	10775	145.5439696	ppb	#	1
121)	N-OCTANE	5.58	85	298306	43.1848835	ppb		97
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	38540	72.8164813	ppb	#	50
124)	ETHYL METHACRYLATE	6.07	69	69913	6.5343159	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	31676	7.9636992	ppb	#	36
126)	CYCLOHEXANONE	7.92	55	9663	32.3219720	ppb	#	84
127)	PENTACHLOROETHANE	8.12	117	199839	43.6313160	ppb	#	14
128)	HEXACHLOROETHANE	8.78	117	7598	1.3493058	ppb	#	59

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: V808A03Q.RES

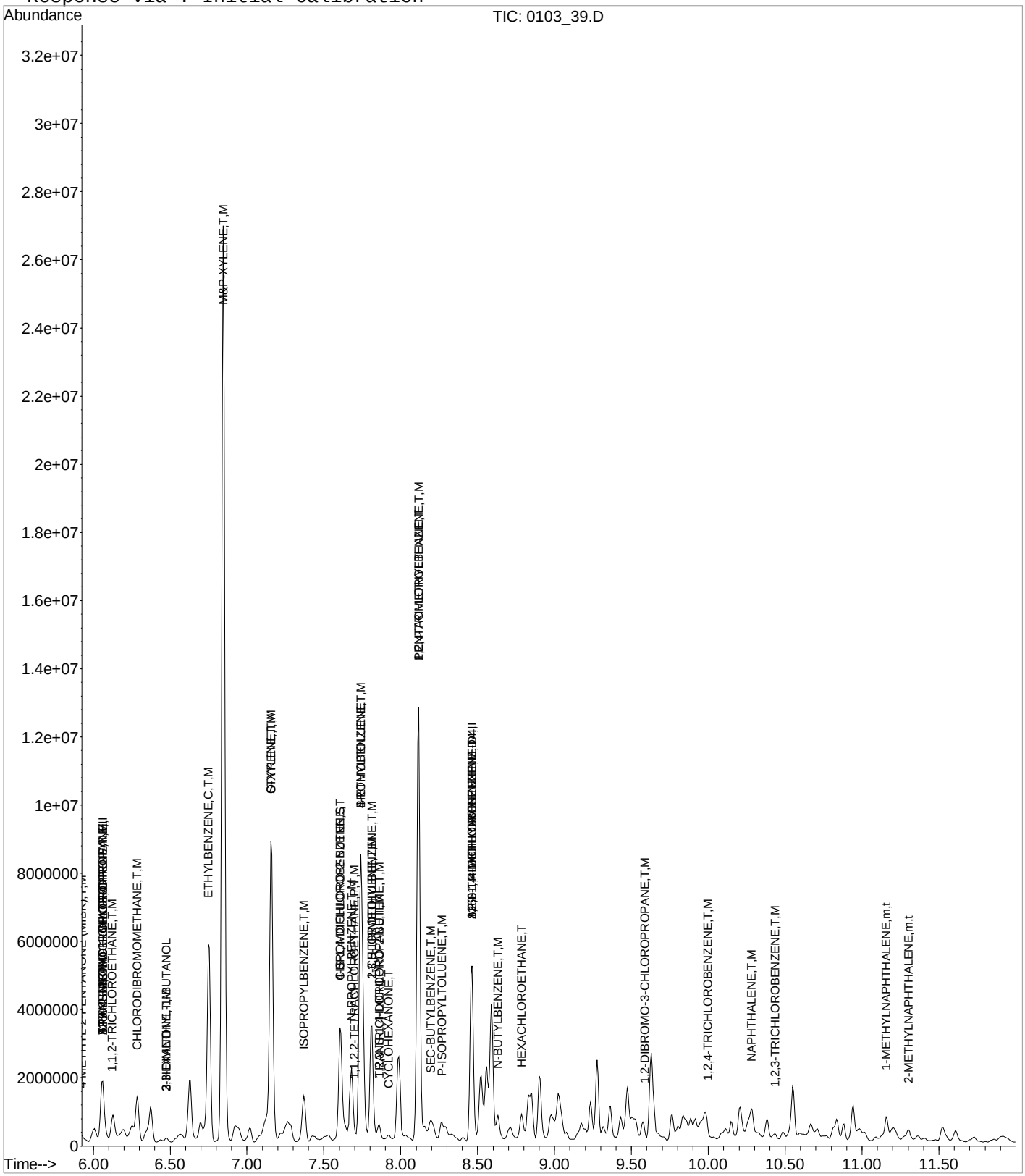
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: V808A03Q.RES

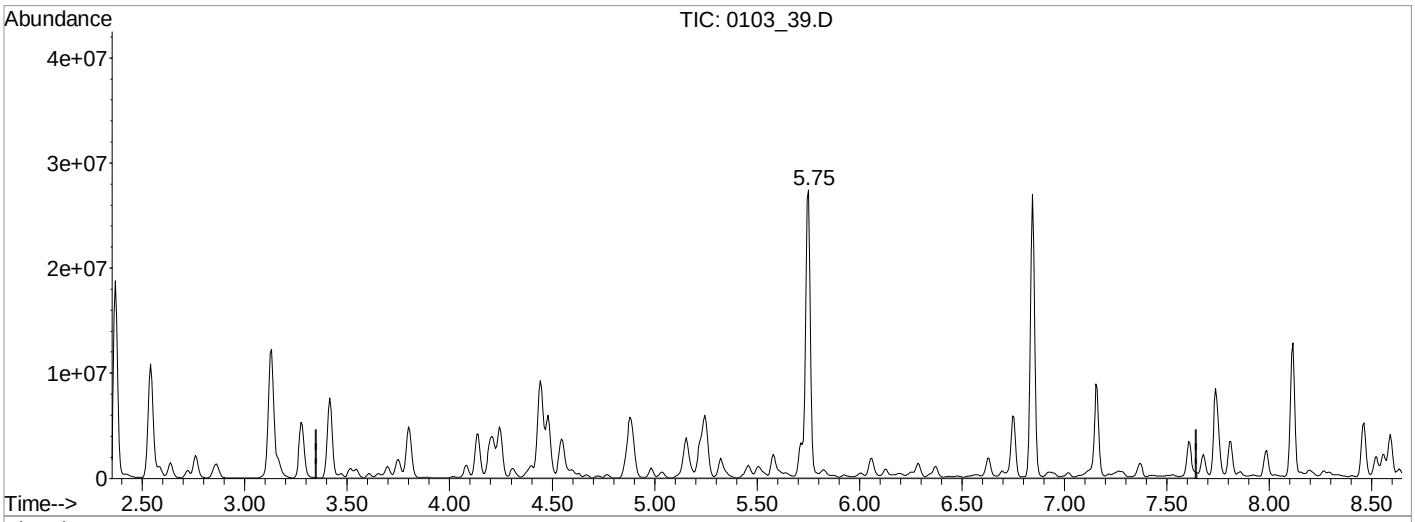
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

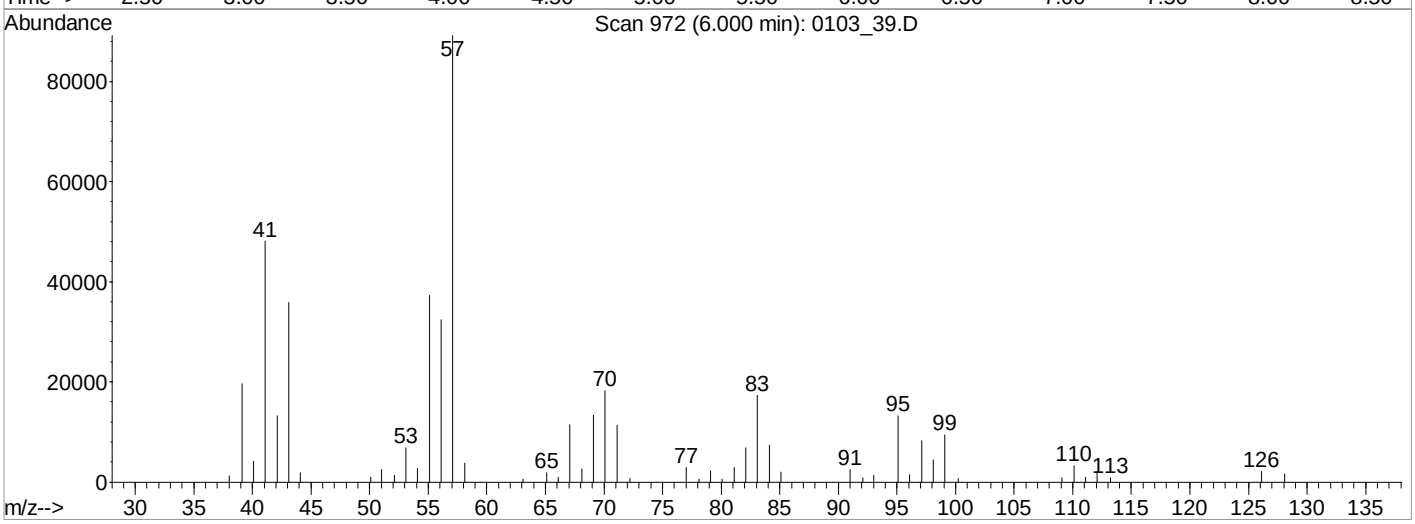


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_39.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

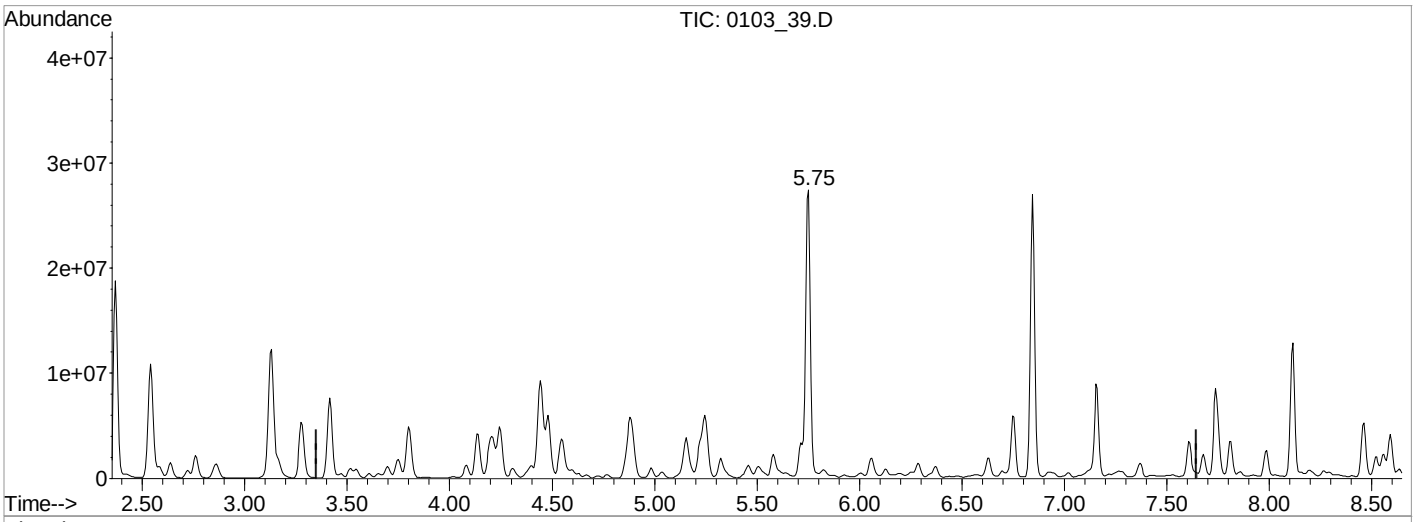
response 110109622

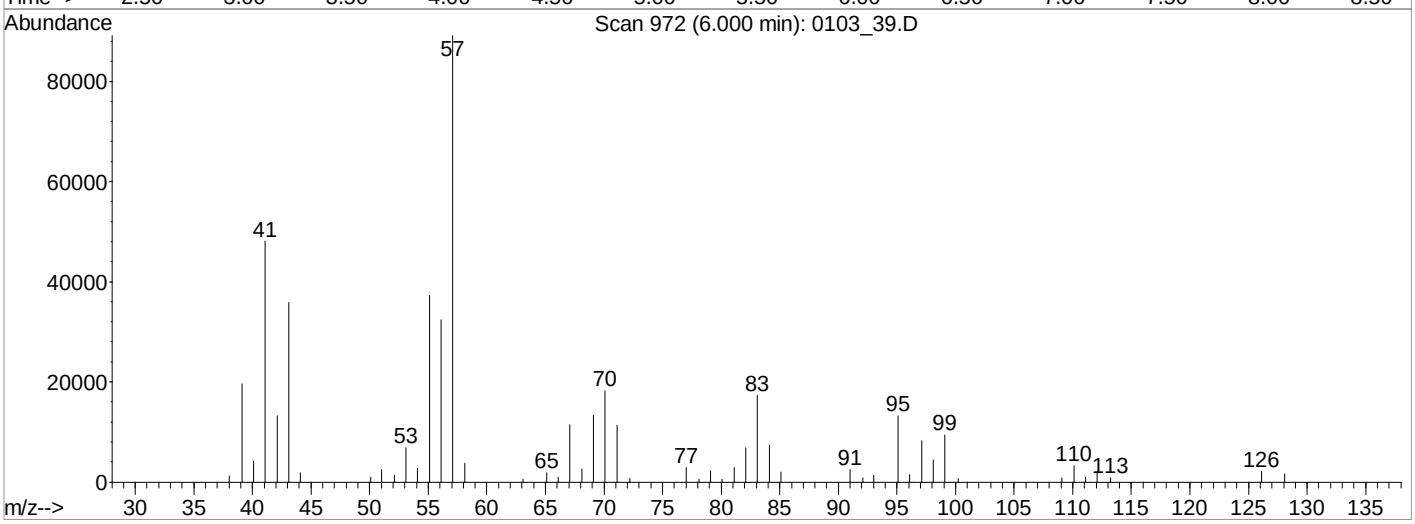
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.83#
0.00	0.00	0.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_39.D Vial: 39
Acq On : 4 Jan 2017 1:42 am Operator: 605
Sample : STD GROMS 7 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:01 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_39.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.75min (-0.250) 0.0000000 ppm m

response 321183261

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.13#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:03:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	761021	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1425369	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	281521	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	599081	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	762277	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1425369	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	281521	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	599081	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	407129	39.6779003	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.19%			
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	726478	41.1883735	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.97%			
58) TOLUENE-D8	5.71	98	1817857	41.2217002	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.05%			
76) 4-BROMOFLUOROBENZENE	7.61	95	709263	41.0631399	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.66%			
Target Compounds						Qvalue
4) PROPENE	1.76	41	5727	0.7834237	ppb	# 70
6) CHLOROMETHANE	2.02	50	144400	9.6090065	ppb	# 69
8) 1,3-BUTADIENE	2.07	39	132031	13.3598986	ppb	# 12
9) BROMOMETHANE	2.34	94	1930	0.1973173	ppb	# 90
10) CHLOROETHANE	2.37	64	2341	0.2918333	ppb	# 1
12) DICHLOROFLUOROMETHANE	2.58	67	11330	0.6115886	ug/l	# 1
14) ACROLEIN	3.13	56	593539	3344.1901878	ppb	# 24
17) ACETONE	3.28	43	1025196	309.4305502	ppb	# 78
18) IODOMETHANE	3.02	142	7544	0.7617091	ppb	92
21) METHYLENE CHLORIDE	3.28	84	2327	0.2747235	ppb	# 1
22) METHYL ACETATE	3.41	43	2851401	360.0297858	ppb	# 57
23) ACRYLONITRILE	3.75	53	23848	6.3618112	ppb	# 41
24) n-HEXANE	3.41	56	2381495	259.5547608	ppb	# 54
26) METHYL TERT-BUTYL ETHER	3.42	73	29541	1.0854841	ppb	# 1
27) 1,1-DICHLOROETHANE	3.75	63	3342	0.1975391	ppb	# 1
28) VINYL ACETATE	3.89	43	47192	2.3848325	ppb	# 87
31) 2,2-DICHLOROPROPANE	4.14	77	3684	0.2673272	ppb	# 59
32) CIS-1,2-DICHLOROETHENE	4.09	96	1841	0.2145225	ppb	# 56
33) 2-BUTANONE (MEK)	4.37	43	355253	65.8624308	ppb	# 64
35) TETRAHYDROFURAN	4.32	42	13132	2.4419810	ppb	# 1
36) CHLOROFORM	4.20	83	72511	4.5894783	ppb	# 1
37) CYCLOHEXANE	4.19	84	867614	58.7553416	ppb	# 1
39) 1,1,1-TRICHLOROETHANE	4.40	97	6656	0.5169717	ppb	# 30
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	9959847	282.3540855	ppb	94
43) n-Heptane	4.48	71	1316062	149.2865050	ppb	# 98
44) BENZENE	4.55	78	2845711	76.4311989	ppb	99
45) TERT-AMYL METHYL ETHER	4.55	73	51818	1.8246909	ppb	# 58
50) METHYL CYCLOHEXANE	4.88	83	1634126	87.9012016	ppb	# 49
51) 1,2-DICHLOROPROPANE	5.18	62	6398	0.9148617	ppb	# 1
52) DIBROMOMETHANE	5.18	93	8026	1.6469539	ppb	# 1
53) BROMODICHLOROMETHANE	5.25	83	35598	2.8782984	ppb	# 1
55) 2-CHLOROETHYL VINYL ETHER	5.50	63	4060	0.6553843	ppb	# 1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	168537	16.6602947	ppb	# 45
59) TOLUENE	5.74	91	17049480	437.4392453	ppb	# 74
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	14281	1.0260904	ppb	# 1

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:03:05 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

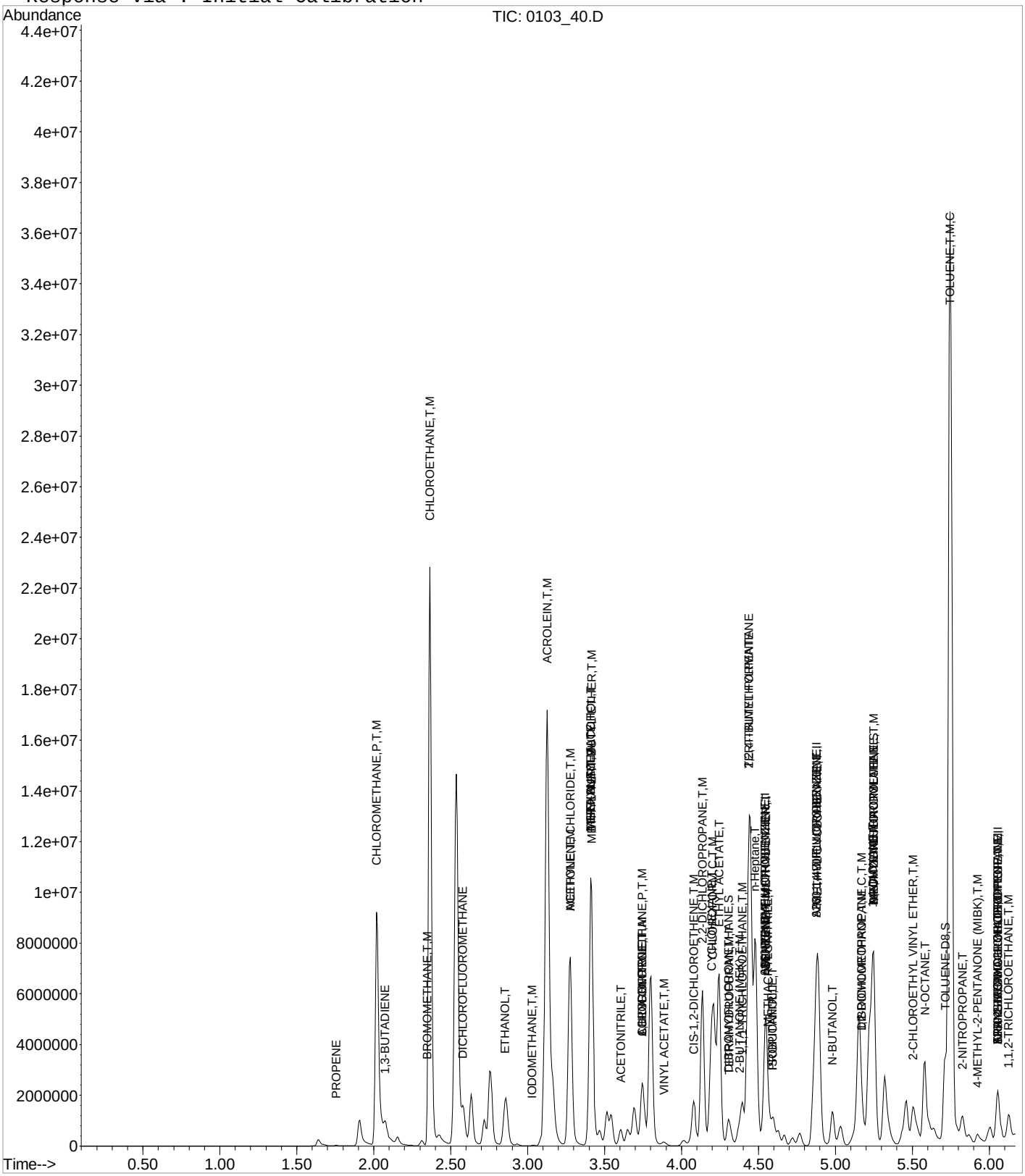
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
62)	1,1,2-TRICHLOROETHANE	6.12	97	60758	8.0605691	ppb	#	1
65)	2-HEXANONE	6.48	58	3315	0.8366424	ppb	#	1
70)	ETHYLBENZENE	6.75	106	1562410	112.9988847	ppb		99
71)	M&P-XYLENE	6.85	106	8939025	523.3199027	ppb		77
72)	O-XYLENE	7.16	106	3005599	187.3917969	ppb		99
73)	STYRENE	7.16	104	153814	5.8249493	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	687709	15.4510025	ppb		99
77)	BROMOBENZENE	7.74	77	1041198	51.2390734	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.70	83	35470	3.2338358	ppb	#	44
79)	1,2,3-TRICHLOROPROPANE	7.84	110	4623	1.5074848	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	14185	3.6825670	ppb	#	31
81)	N-PROPYLBENZENE	7.67	91	1940200	36.0388434	ppb		99
82)	4-ETHYLTOLUENE	7.74	105	8133691	189.6779102	ppb		96
83)	2-CHLOROTOLUENE	7.81	91	251110	7.0790694	ppb	#	51
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	2373902	63.2015413	ppb		99
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	8637410	238.3895723	ppb		100
88)	SEC-BUTYLBENZENE	8.20	105	257029	5.4890231	ppb	#	77
90)	P-ISOPROPYLTOLUENE	8.26	119	382193	10.1759116	ppb		94
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	2020291	56.8162171	ppb		98
96)	N-BUTYLBENZENE	8.64	91	397216	11.7753816	ppb	#	92
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.47	157	506	0.2904686	ppb	#	1
100)	NAPHTHALENE	10.28	128	649686	26.1003885	ppb	#	86
101)	1,2,3-TRICHLOROBENZENE	10.44	180	5570	0.7215112	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	404578	36.1466978	ppb	#	93
103)	2-METHYLNAPHTHALENE	11.30	142	192028	18.0410538	ppb		96
105)	ETHANOL	2.85	45	85976	896.5505324	ppb	#	88
108)	ACETONITRILE	3.61	41	210173	146.6265395	ppb	#	48
109)	TERT-BUTYL ALCOHOL	3.41	59	2795	1.9260112	ppb	#	1
110)	CHLOROPRENE	3.75	53	25261	1.7387402	ppb	#	29
111)	PROPIONITRILE	4.59	54	36330	20.8125641	ppb	#	1
112)	ETHYL ACETATE	4.24	43	2700118	245.6663830	ppb	#	29
113)	METHACRYLONITRILE	4.57	67	27797	7.0669313	ppb	#	1
114)	TERT-BUTYL FORMATE	4.45	59	8903	1.1117641	ppb	#	1
115)	ISOBUTANOL	4.59	43	57057	99.2845510	ppb	#	79
117)	N-BUTANOL	4.98	56	290509	1062.7232707	ppb	#	55
118)	2-NITROPROPANE	5.83	43	169507	52.4341981	ppb		86
119)	METHYL METHACRYLATE	5.25	41	753472	67.6102519	ppb	#	51
120)	1,4-DIOXANE	5.24	88	11399	150.1457556	ppb	#	1
121)	N-OCTANE	5.58	85	438981	61.9704795	ppb		94
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	57167	101.2992444	ppb	#	47
124)	ETHYL METHACRYLATE	6.06	69	91127	7.9663129	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	45664	10.7380783	ppb	#	36
126)	CYCLOHEXANONE	7.92	55	12853	40.2122598	ppb	#	78
127)	PENTACHLOROETHANE	8.11	117	289856	59.1927424	ppb	#	14
128)	HEXACHLOROETHANE	8.79	117	10146	1.6852877	ppb	#	64

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:03 2017 Quant Results File: V808A03Q.RES

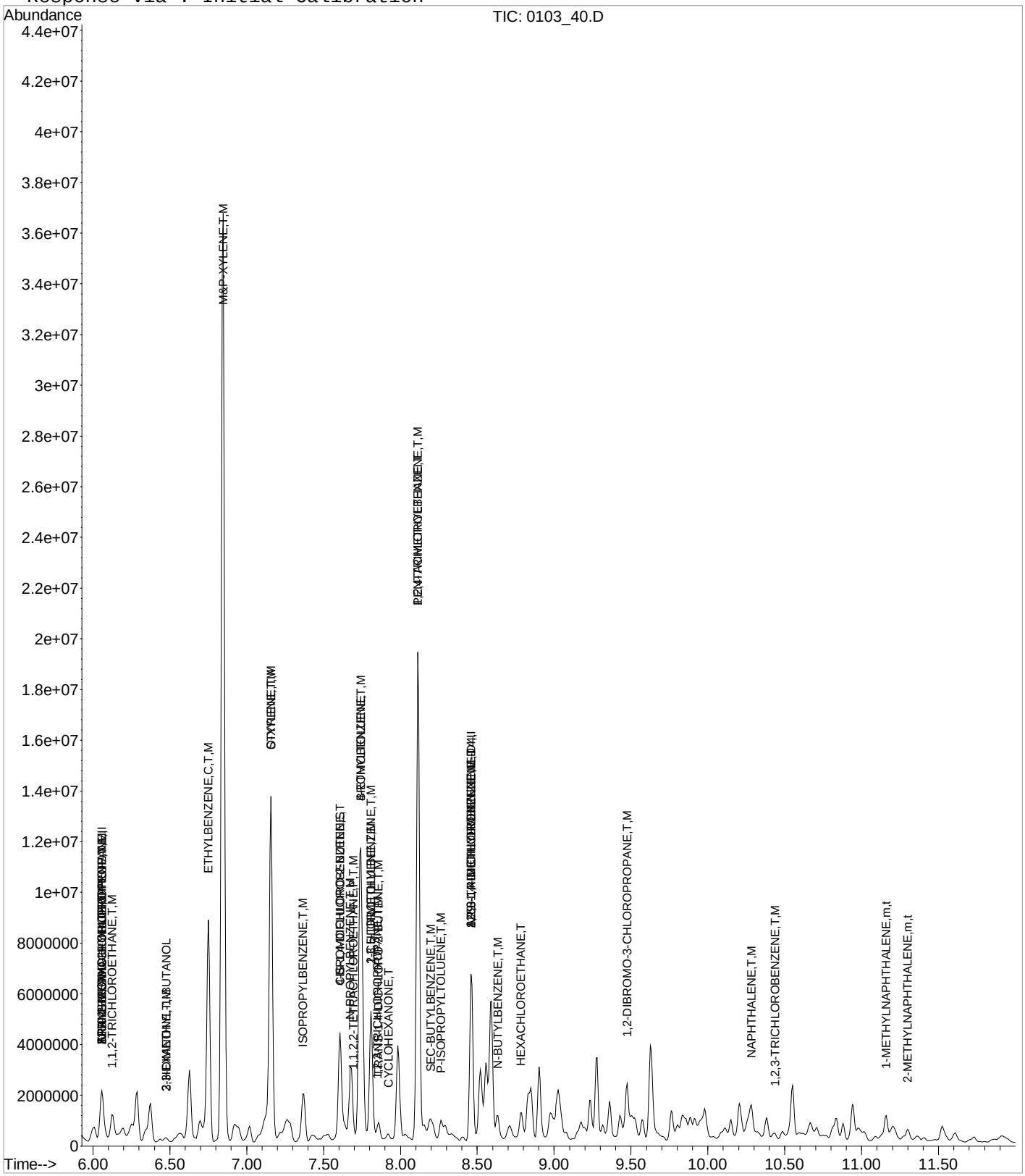
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:03 2017 Quant Results File: V808A03Q.RES

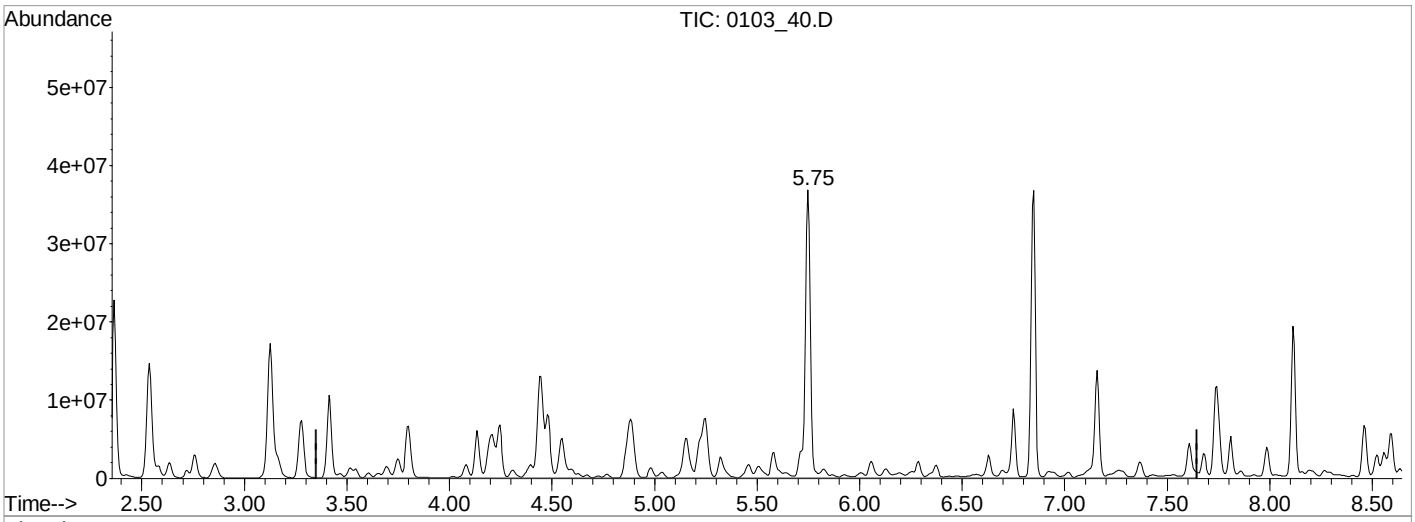
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

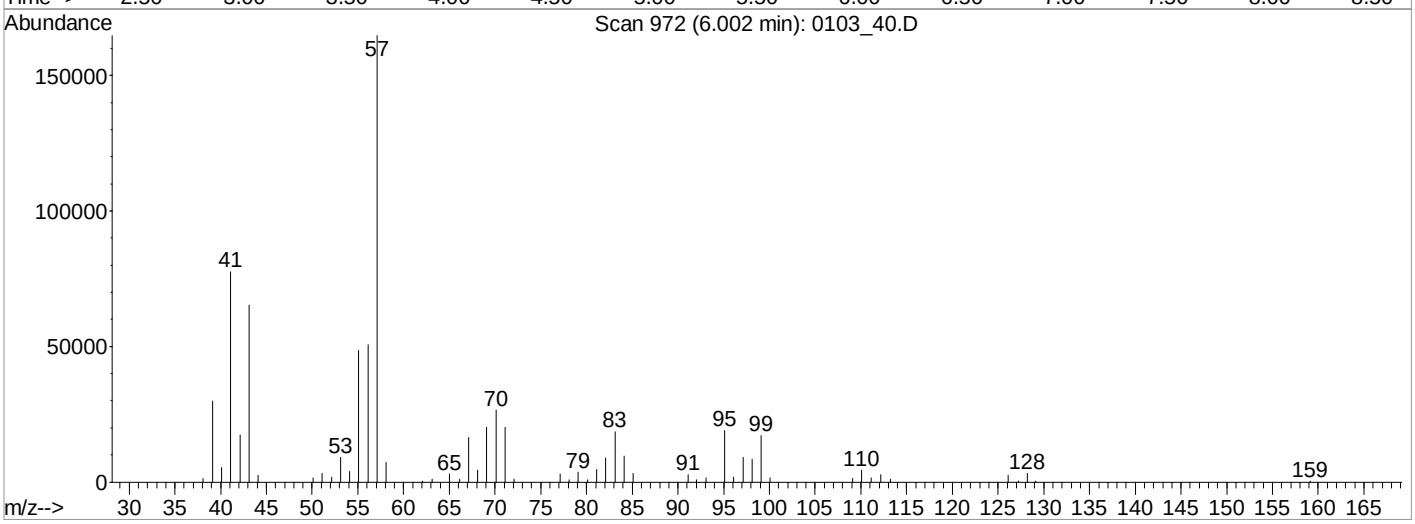


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:03 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_40.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

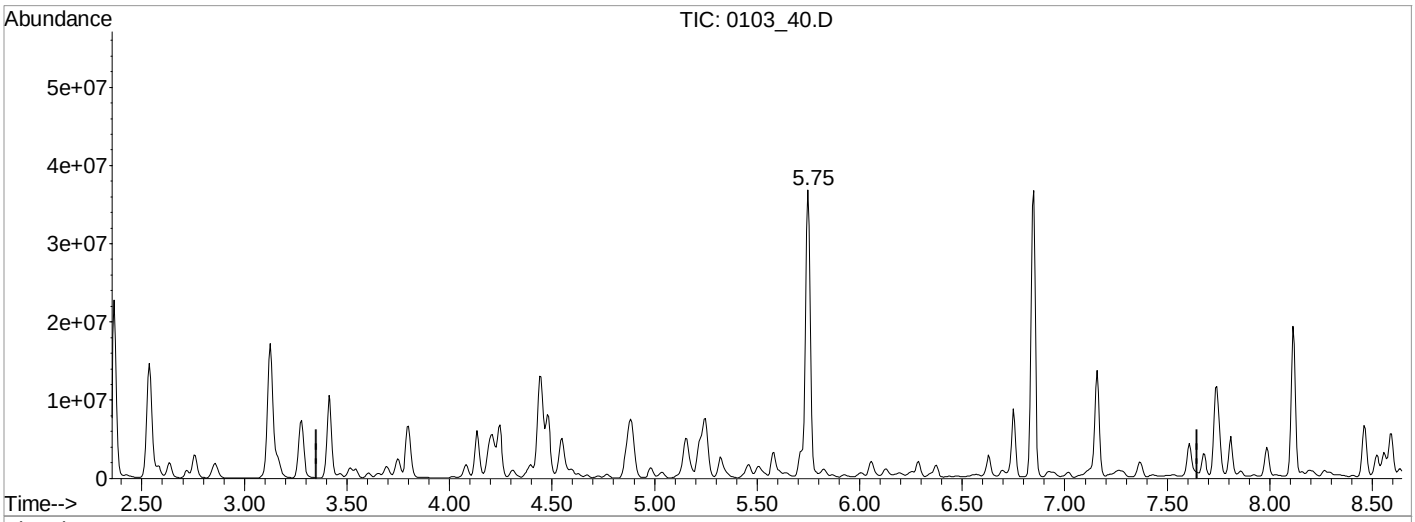
response 164388884

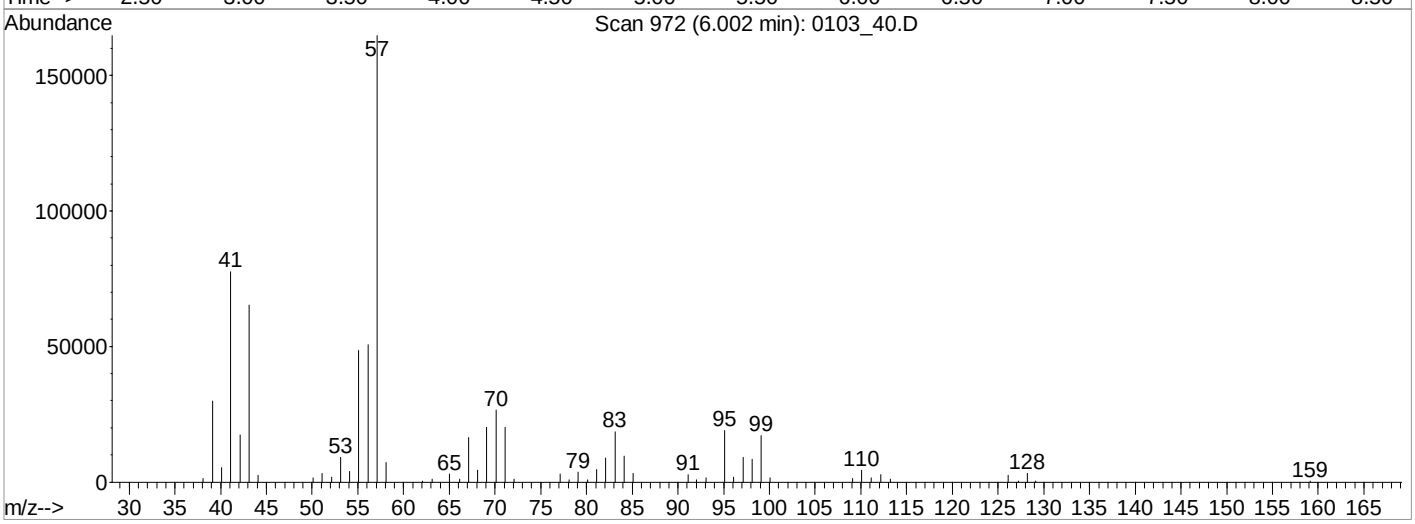
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.57#
0.00	0.00	0.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_40.D Vial: 40
Acq On : 4 Jan 2017 2:05 am Operator: 605
Sample : STD GROMS 10 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:03 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_40.D

(2) TPH (GC/MS) LOW FRACTION (H)

5.75min (-0.253) 0.0000000 ppm m

response 446283695

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.21#
0.00	0.00	0.10#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:57:47 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	753548	40.00 ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1476065	40.00 ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	292955	40.00 ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	599373	40.00 ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	754311	40.00 ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1476065	40.00 ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	292955	40.00 ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	599373	40.00 ppb	0.00
System Monitoring Compounds					
38) DIBROMOFLUOROMETHANE	4.31	111	401820	39.5488548 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.87%		
54) A,A,A-TRIFLUOROTOLUENE	5.24	146	727839	39.8482566 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.62%		
58) TOLUENE-D8	5.72	98	1854863	40.6162523 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.54%		
76) 4-BROMOFLUOROBENZENE	7.61	95	739951	41.1678033 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.92%		
Target Compounds					Qvalue
4) PROPENE	1.76	41	10018	1.3840005 ppb #	69
6) CHLOROMETHANE	2.02	50	291080	19.5618256 ppb #	68
9) BROMOMETHANE	2.34	94	1807	0.1865742 ppb #	88
12) DICHLOROFLUOROMETHANE	2.58	67	23836	1.2994170 ug/l #	1
14) ACROLEIN	3.13	56	1223927	6948.1792658 ppb #	18
17) ACETONE	3.27	43	2117036	645.3127550 ppb #	77
18) IODOMETHANE	3.03	142	9343	0.9527074 ppb #	96
21) METHYLENE CHLORIDE	3.28	84	3518	0.4194508 ppb #	1
22) METHYL ACETATE	3.41	43	5826747	743.0054772 ppb #	57
23) ACRYLONITRILE	3.75	53	51689	13.9255598 ppb #	40
24) n-HEXANE	3.41	56	4906634	540.0683275 ppb #	53
26) METHYL TERT-BUTYL ETHER	3.42	73	60426	2.2423728 ppb #	1
27) 1,1-DICHLOROETHANE	3.75	63	6690	0.3993545 ppb #	1
28) VINYL ACETATE	3.89	43	91648	4.6773321 ppb #	87
30) ETHYL TERT-BUTYL ETHER	3.84	59	4192	0.1429126 ppb #	66
31) 2,2-DICHLOROPROPANE	4.13	77	7177	0.5259594 ppb #	59
32) CIS-1,2-DICHLOROETHENE	4.08	96	3896	0.4584835 ppb #	42
33) 2-BUTANONE (MEK)	4.37	43	715863	134.0342032 ppb #	64
35) TETRAHYDROFURAN	4.32	42	23271	4.3703093 ppb #	1
36) CHLOROFORM	4.19	83	144407	9.2306736 ppb #	1
37) CYCLOHEXANE	4.19	84	2001970	136.9191169 ppb #	1
42) 2,2,4-TRIMETHYLPENTANE	4.44	57	18351094	525.3988144 ppb #	87
43) n-Heptane	4.48	71	2723492	312.0010277 ppb #	99
44) BENZENE	4.55	78	5918720	160.5437467 ppb	99
45) TERT-AMYL METHYL ETHER	4.55	73	108070	3.8432578 ppb #	52
50) METHYL CYCLOHEXANE	4.88	83	3310728	172.7525466 ppb #	50
51) 1,2-DICHLOROPROPANE	5.18	62	17329	2.3928006 ppb #	1
52) DIBROMOMETHANE	5.18	93	14183	2.8104264 ppb #	1
53) BROMODICHLOROMETHANE	5.25	83	70304	5.4892382 ppb #	1
55) 2-CHLOROETHYL VINYL ETHER	5.50	63	8128	1.2669968 ppb #	1
57) 4-METHYL-2-PENTANONE (MIBK	5.92	43	356086	33.9910161 ppb #	44
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	14942	1.0367107 ppb #	1
62) 1,1,2-TRICHLOROETHANE	6.12	97	105897	13.5006840 ppb #	1
65) 2-HEXANONE	6.48	58	5738	1.3916396 ppb #	1
66) CHLORODIBROMOMETHANE	6.25	129	1527	0.1917975 ppb #	9

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 10:57:47 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

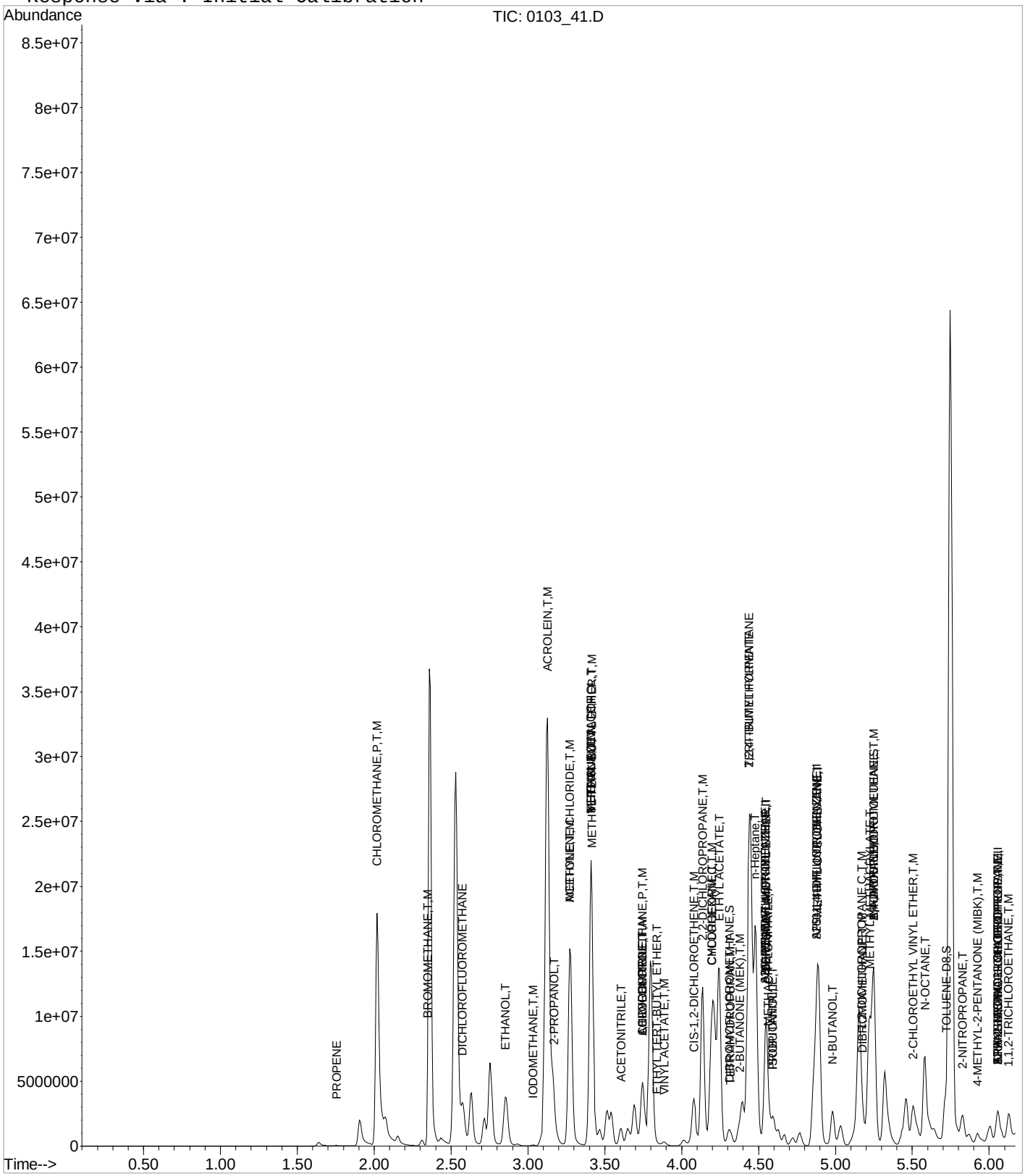
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
67)	1,2-DIBROMOETHANE	6.44	107	1610	0.2028528	ppb	#	1
68)	CHLOROBENZENE	6.81	112	6572	0.2697897	ppb	#	17
70)	ETHYLBENZENE	6.75	106	3348166	232.6998004	ppb		97
71)	M&P-XYLENE	6.84	106	15392760	865.9712622	ppb	#	1
72)	O-XYLENE	7.16	106	6527500	391.0896300	ppb		90
73)	STYRENE	7.16	104	332262	12.0916855	ppb	#	1
75)	ISOPROPYLBENZENE	7.37	105	1426008	30.7881645	ppb		99
77)	BROMOBENZENE	7.67	77	155228	7.3408760	ppb	#	34
78)	1,1,2,2-TETRACHLOROETHANE	7.76	83	10239	0.8970656	ppb	#	1
79)	1,2,3-TRICHLOROPROPANE	7.86	110	8408	2.6347027	ppb	#	1
80)	TRANS-1,4-DICHLORO-2-BUTEN	7.86	53	24910	6.2144820	ppb	#	34
81)	N-PROPYLBENZENE	7.67	91	4023197	71.8134059	ppb		100
82)	4-ETHYLTOLUENE	7.74	105	16396910	367.4523094	ppb		93
83)	2-CHLOROTOLUENE	7.81	91	533067	14.4412187	ppb	#	51
85)	1,3,5-TRIMETHYLBENZENE	7.81	105	4864802	124.4629053	ppb		99
86)	TERT-BUTYLBENZENE	8.06	119	5153	0.1615018	ppb	#	67
87)	1,2,4-TRIMETHYLBENZENE	8.11	105	15013883	398.2049260	ppb	#	82
88)	SEC-BUTYLBENZENE	8.20	105	495001	10.1584837	ppb	#	77
90)	P-ISOPROPYLTOLUENE	8.26	119	764956	19.5720779	ppb	#	92
91)	DICYCLOPENTADIENE	8.26	66	8877	0.1743374	ppb		99
94)	1,2,3-TRIMETHYLBENZENE	8.47	105	4171377	117.2536035	ppb		98
96)	N-BUTYLBENZENE	8.64	91	777484	23.0371149	ppb	#	94
97)	1,2-DIBROMO-3-CHLOROPROPAN	9.45	157	488	0.2799992	ppb	#	1
98)	1,2,4-TRICHLOROBENZENE	10.04	180	2307	0.2756706	ppb	#	12
100)	NAPHTHALENE	10.28	128	1285424	51.6152741	ppb	#	88
101)	1,2,3-TRICHLOROBENZENE	10.45	180	6589	0.8530917	ppb	#	13
102)	1-METHYLNAPHTHALENE	11.16	142	765852	68.3910996	ppb		97
103)	2-METHYLNAPHTHALENE	11.30	142	354170	33.2581038	ppb		97
105)	ETHANOL	2.85	45	172931	1822.3540859	ppb	#	89
107)	2-PROPANOL	3.17	45	175	0.2972182	ppb	#	51
108)	ACETONITRILE	3.61	41	444020	313.0405294	ppb	#	48
109)	TERT-BUTYL ALCOHOL	3.41	59	6838	4.7617705	ppb	#	1
110)	CHLOROPRENE	3.75	53	51689	3.5953789	ppb	#	29
111)	PROPIONITRILE	4.59	54	73676	42.6529039	ppb	#	1
112)	ETHYL ACETATE	4.24	43	8451996	777.1138436	ppb	#	51
113)	METHACRYLONITRILE	4.57	67	67292	17.2885574	ppb	#	1
114)	TERT-BUTYL FORMATE	4.44	59	17910	2.2601343	ppb	#	1
115)	ISOBUTANOL	4.59	43	117467	206.5622689	ppb	#	79
117)	N-BUTANOL	4.98	56	590054	2084.3669803	ppb	#	55
118)	2-NITROPROPANE	5.83	43	354391	105.8599058	ppb		91
119)	METHYL METHACRYLATE	5.22	41	1290149	111.7910750	ppb	#	20
120)	1,4-DIOXANE	5.24	88	10864	138.1840413	ppb	#	1
121)	N-OCTANE	5.58	85	912239	124.3568163	ppb		95
122)	3,3-DIMETHYL-1-BUTANOL	6.48	57	121303	198.1049063	ppb	#	44
124)	ETHYL METHACRYLATE	6.06	69	191574	16.0937310	ppb	#	1
125)	CIS-1,4-DICHLORO-2-BUTENE	7.61	53	90421	20.4329843	ppb	#	37
126)	CYCLOHEXANONE	7.92	55	19561	58.8105048	ppb	#	74
127)	PENTACHLOROETHANE	8.11	117	630559	123.7433238	ppb	#	14
128)	HEXACHLOROETHANE	8.79	117	19769	3.1555406	ppb	#	65

(#) = qualifier out of range (m) = manual integration
0103_41.D V808A03Q.M Wed Jan 04 10:58:39 2017 341 of 499 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:58 2017 Quant Results File: V808A03Q.RES

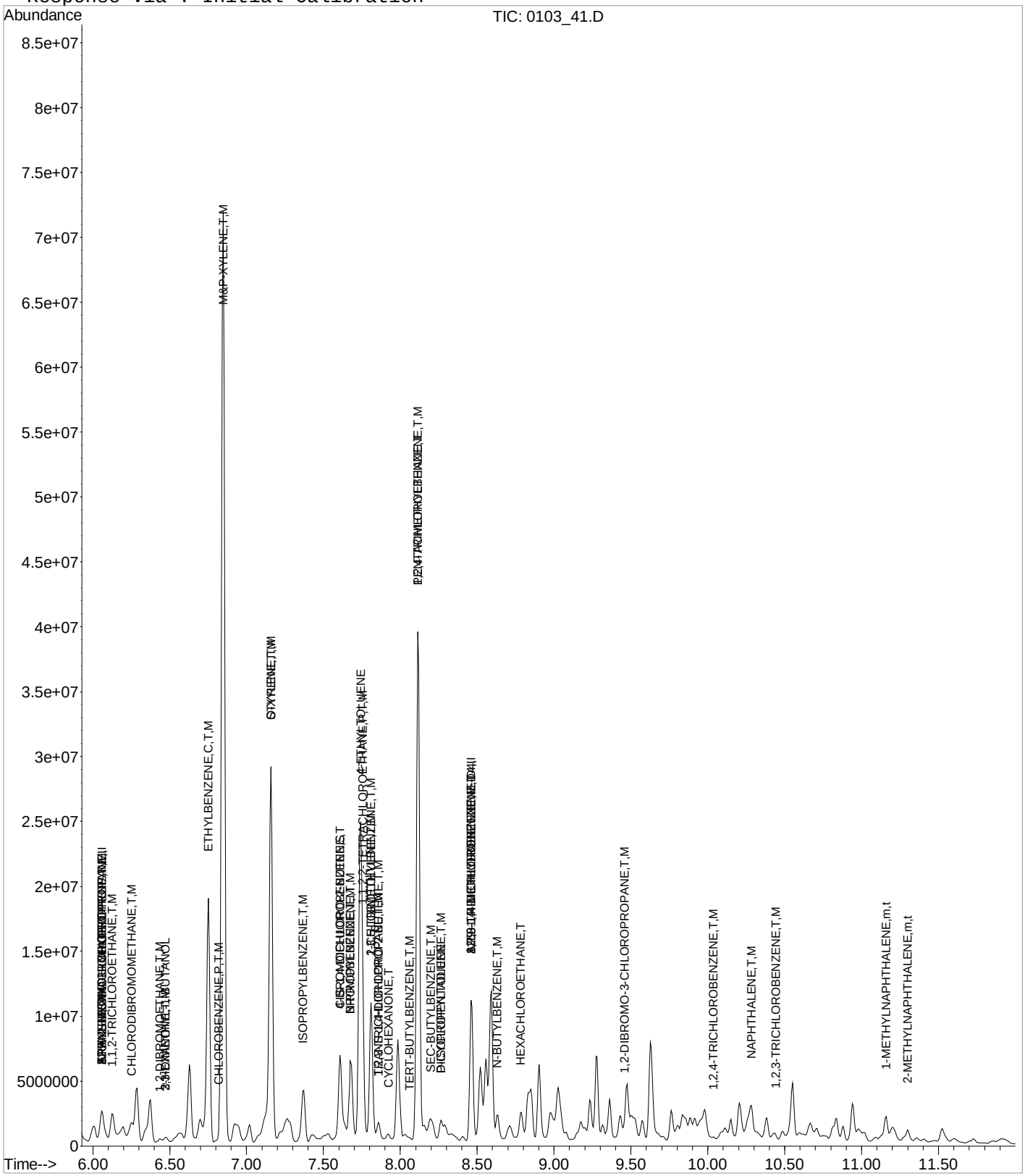
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:58 2017 Quant Results File: V808A03Q.RES

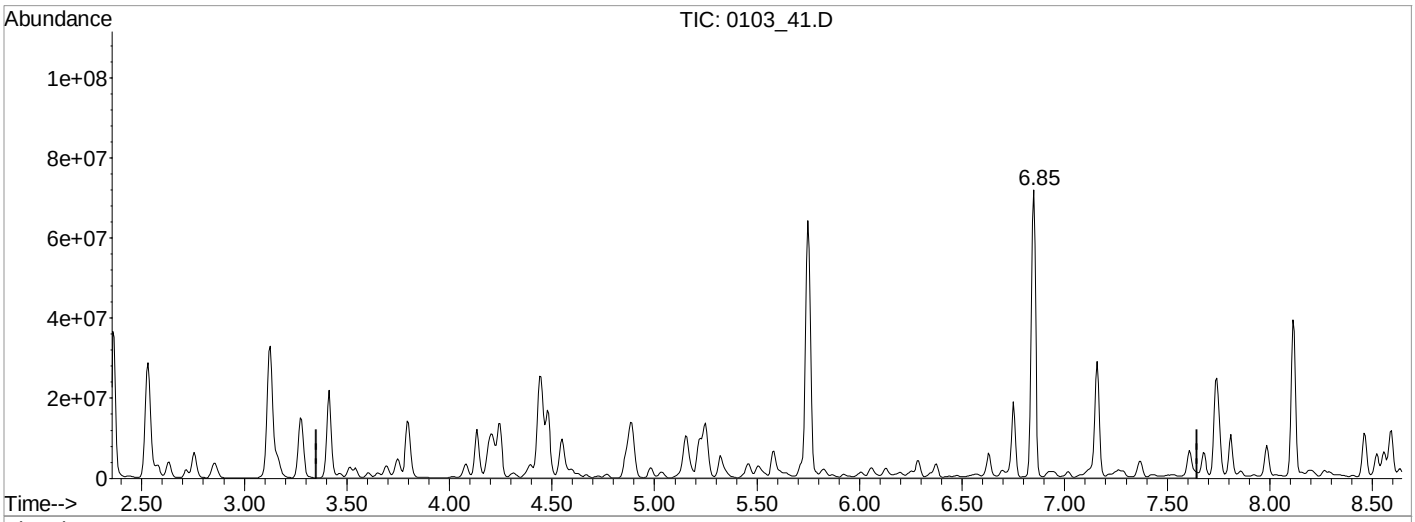
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Initial Calibration

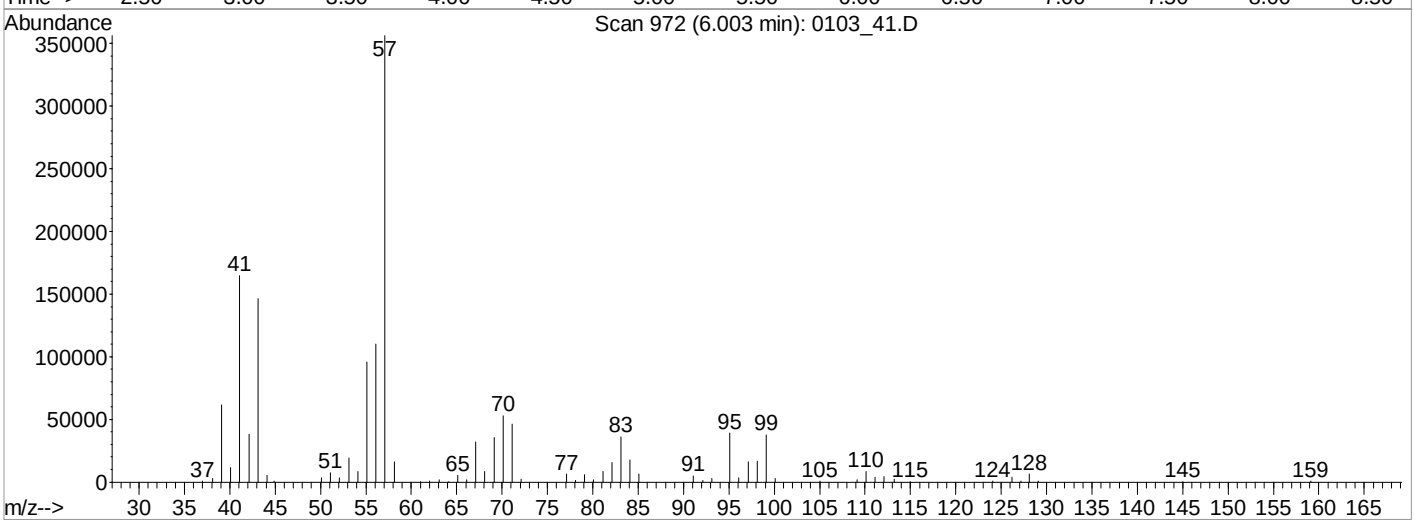


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:57 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_41.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.00min (0.000) 0.0000000 ppm m

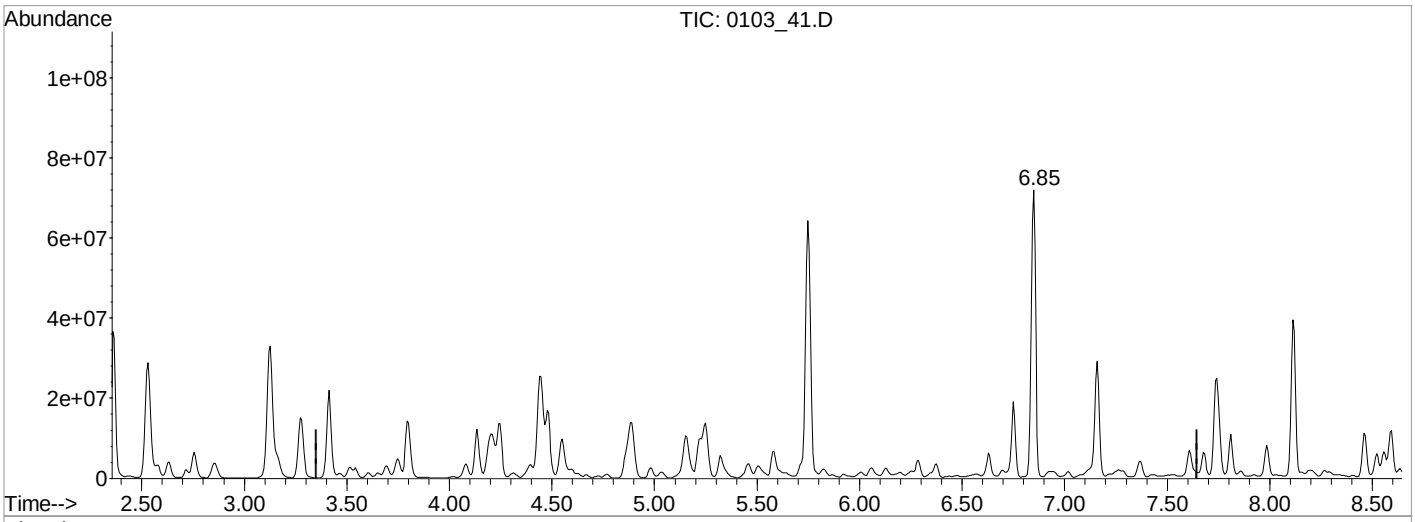
response 342605626

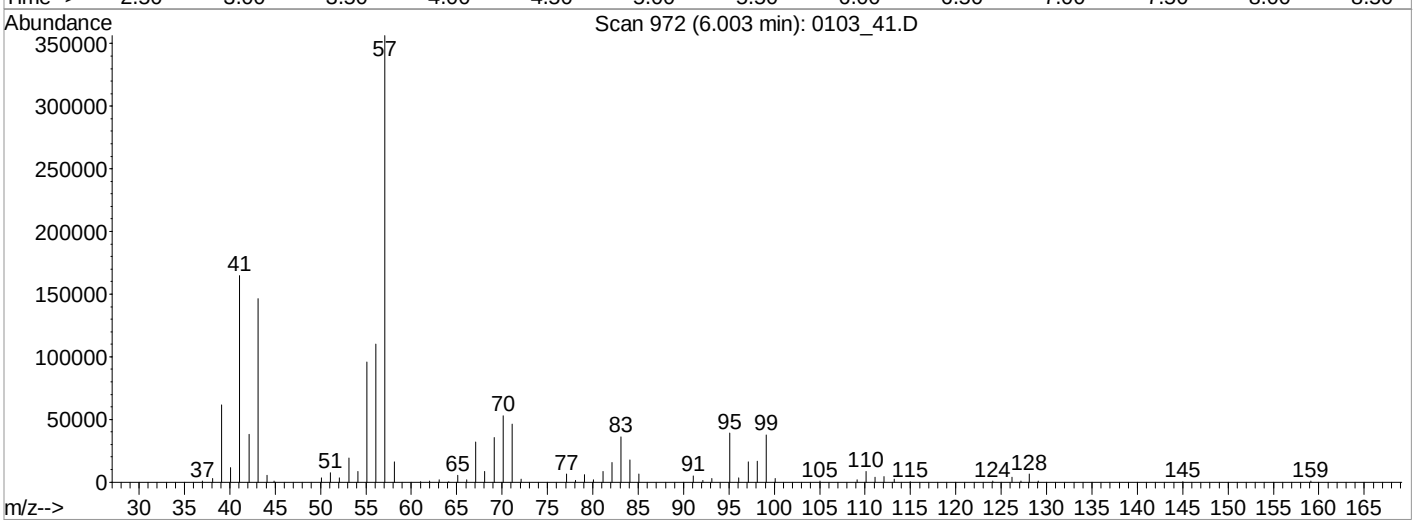
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\010317\0103_41.D Vial: 41
Acq On : 4 Jan 2017 2:27 am Operator: 605
Sample : STD GROMS 20 ppm 17A03251 Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 10:58 2017 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 10:54:17 2017
Response via : Multiple Level Calibration





TIC: 0103_41.D

(2) TPH (GC/MS) LOW FRACTION (H)

6.85min (+0.848) 0.0000000 ppm m

response -692239116

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-0.14#
0.00	0.00	-0.08#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:08:45 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

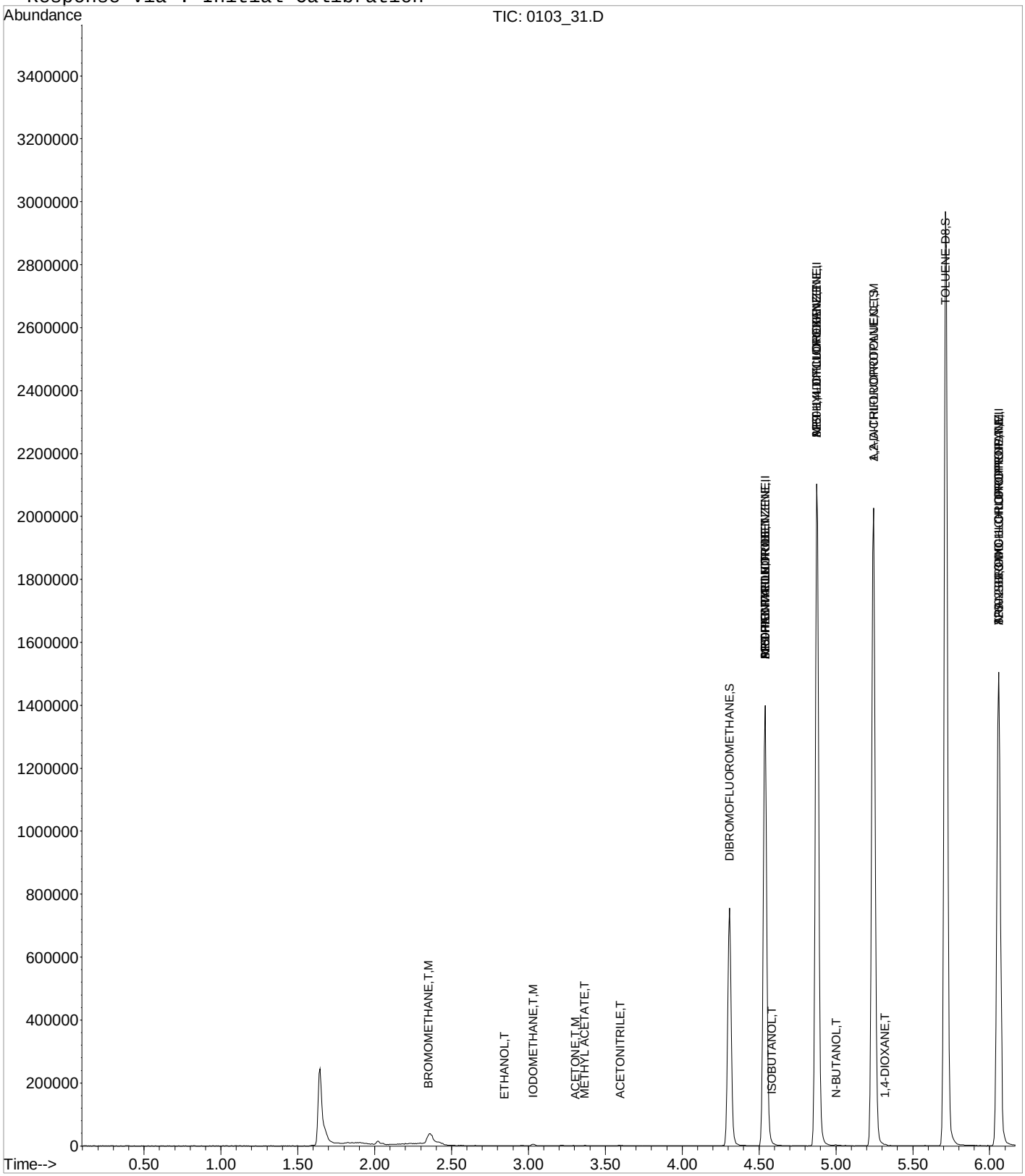
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	689754	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1299491	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	236947	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	514935	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	690928	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1299491	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	236947	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	514935	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	386040	41.5098691	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.77%			
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	651877	40.5388913	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.35%			
58) TOLUENE-D8	5.71	98	1658076	41.2405691	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.10%			
76) 4-BROMOFLUOROBENZENE	7.61	95	588792	40.5010547	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-9898236m	Below Cal		
9) BROMOMETHANE	2.34	94	2216	0.2499654	ppb #	93
17) ACETONE	3.31	43	700	0.2331078	ppb #	47
18) IODOMETHANE	3.03	142	5448	0.6069138	ppb #	91
22) METHYL ACETATE	3.37	43	2457	0.3422849	ppb #	57
50) METHYL CYCLOHEXANE	4.88	83	17479	0.2234558	ppb #	37
51) 1,2-DICHLOROPROPANE	5.24	62	16322	2.5599919	ppb #	50
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	12947	1.0203524	ppb #	1
77) BROMOBENZENE	7.61	77	3435	0.2008419	ppb #	34
91) DICYCLOPENTADIENE	8.46	66	15317	0.3719185	ppb #	82
105) ETHANOL	2.84	45	541	6.2240751	ppb #	41
108) ACETONITRILE	3.60	41	1628	1.2530549	ppb #	71
111) PROPIONITRILE	4.55	54	1324	0.8368126	ppb #	1
113) METHACRYLONITRILE	4.54	67	5143	1.4425454	ppb #	1
115) ISOBUTANOL	4.59	43	954	1.8314756	ppb #	79
117) N-BUTANOL	5.00	56	1746	7.0058183	ppb #	86
120) 1,4-DIOXANE	5.32	88	1010	14.5922316	ppb #	41
126) CYCLOHEXANONE	7.85	55	354	1.3158816	ppb #	23

(#) = qualifier out of range (m) = manual integration
0103_31.D V808A03Q.M Wed Jan 04 11:08:49 2017 346 of 499 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:08 2017 Quant Results File: V808A03Q.RES

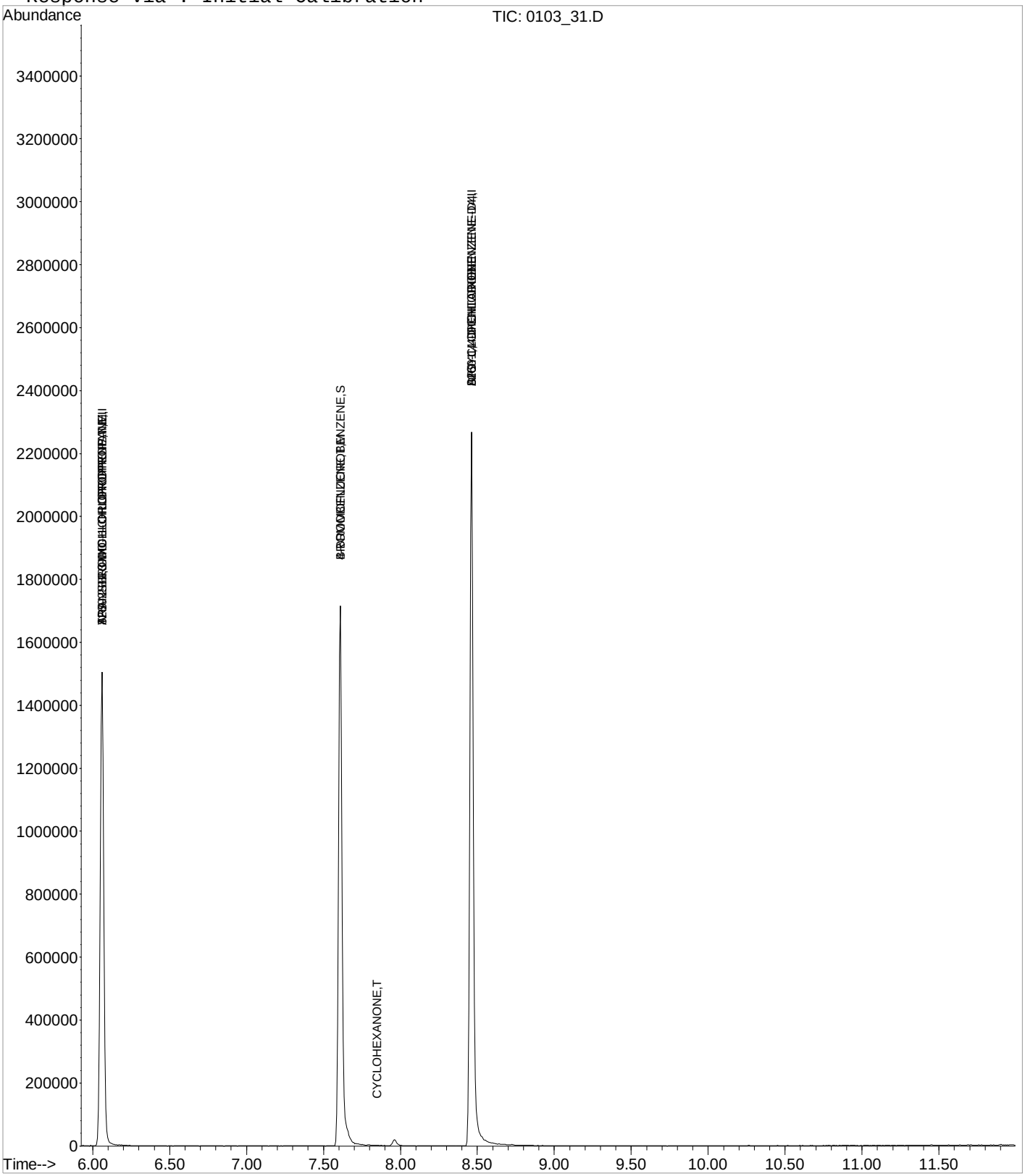
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:08 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 04 11:08:45 2017 Quant Results File: V808A03Q.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration
DataAcq Meth : 8260_W

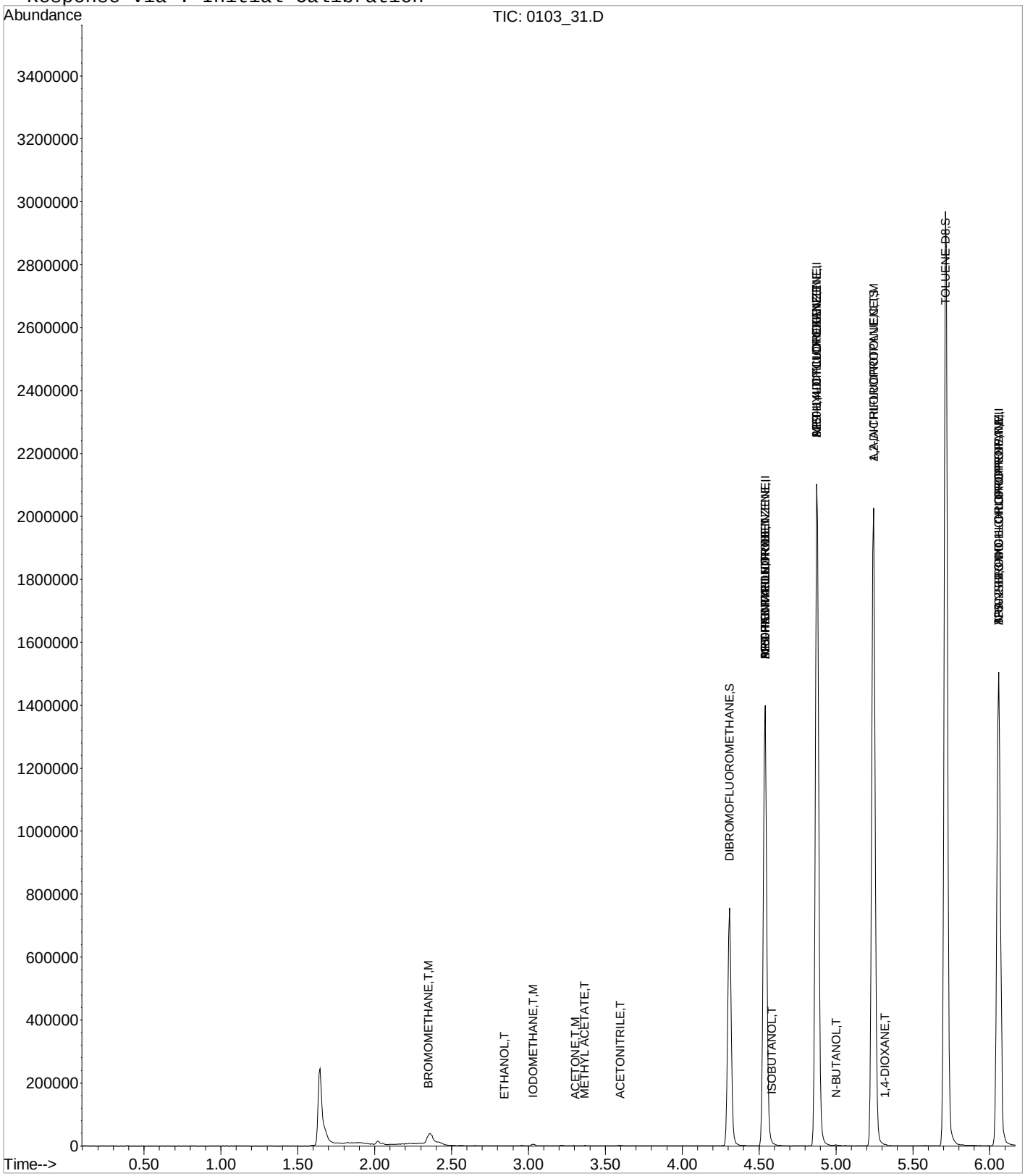
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.54	168	689754	40.00	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.87	114	1299491	40.00	ppb	0.00
61) 8260-2-BROMO-1-CHLOROPROPA	6.06	79	236947	40.00	ppb	0.00
92) 8260-1,4-DICHLOROBENZENE-D	8.46	152	514935	40.00	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.54	168	690928	40.00	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.87	114	1299491	40.00	ppb	0.00
123) AP9-2-BROMO-1-CHLOROPROPAN	6.06	79	236947	40.00	ppb	0.00
129) AP9-1,4-DICHLOROBENZENE-D4	8.46	152	514935	40.00	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.31	111	386040	41.5098691	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.77%			
54) A,A,A-TRIFLUOROTOLUENE	5.25	146	651877	40.5388913	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.35%			
58) TOLUENE-D8	5.71	98	1658076	41.2405691	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.10%			
76) 4-BROMOFLUOROBENZENE	7.61	95	588792	40.5010547	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-9898236m	Below Cal		
9) BROMOMETHANE	2.34	94	2216	0.2499654	ppb #	93
17) ACETONE	3.31	43	700	0.2331078	ppb #	47
18) IODOMETHANE	3.03	142	5448	0.6069138	ppb #	91
22) METHYL ACETATE	3.37	43	2457	0.3422849	ppb #	57
50) METHYL CYCLOHEXANE	4.88	83	17479	0.2234558	ppb #	37
51) 1,2-DICHLOROPROPANE	5.24	62	16322	2.5599919	ppb #	50
60) TRANS-1,3-DICHLOROPROPENE	6.06	75	12947	1.0203524	ppb #	1
77) BROMOBENZENE	7.61	77	3435	0.2008419	ppb #	34
91) DICYCLOPENTADIENE	8.46	66	15317	0.3719185	ppb #	82
105) ETHANOL	2.84	45	541	6.2240751	ppb #	41
108) ACETONITRILE	3.60	41	1628	1.2530549	ppb #	71
111) PROPIONITRILE	4.55	54	1324	0.8368126	ppb #	1
113) METHACRYLONITRILE	4.54	67	5143	1.4425454	ppb #	1
115) ISOBUTANOL	4.59	43	954	1.8314756	ppb #	79
117) N-BUTANOL	5.00	56	1746	7.0058183	ppb #	86
120) 1,4-DIOXANE	5.32	88	1010	14.5922316	ppb #	41
126) CYCLOHEXANONE	7.85	55	354	1.3158816	ppb #	23

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:08 2017 Quant Results File: V808A03Q.RES

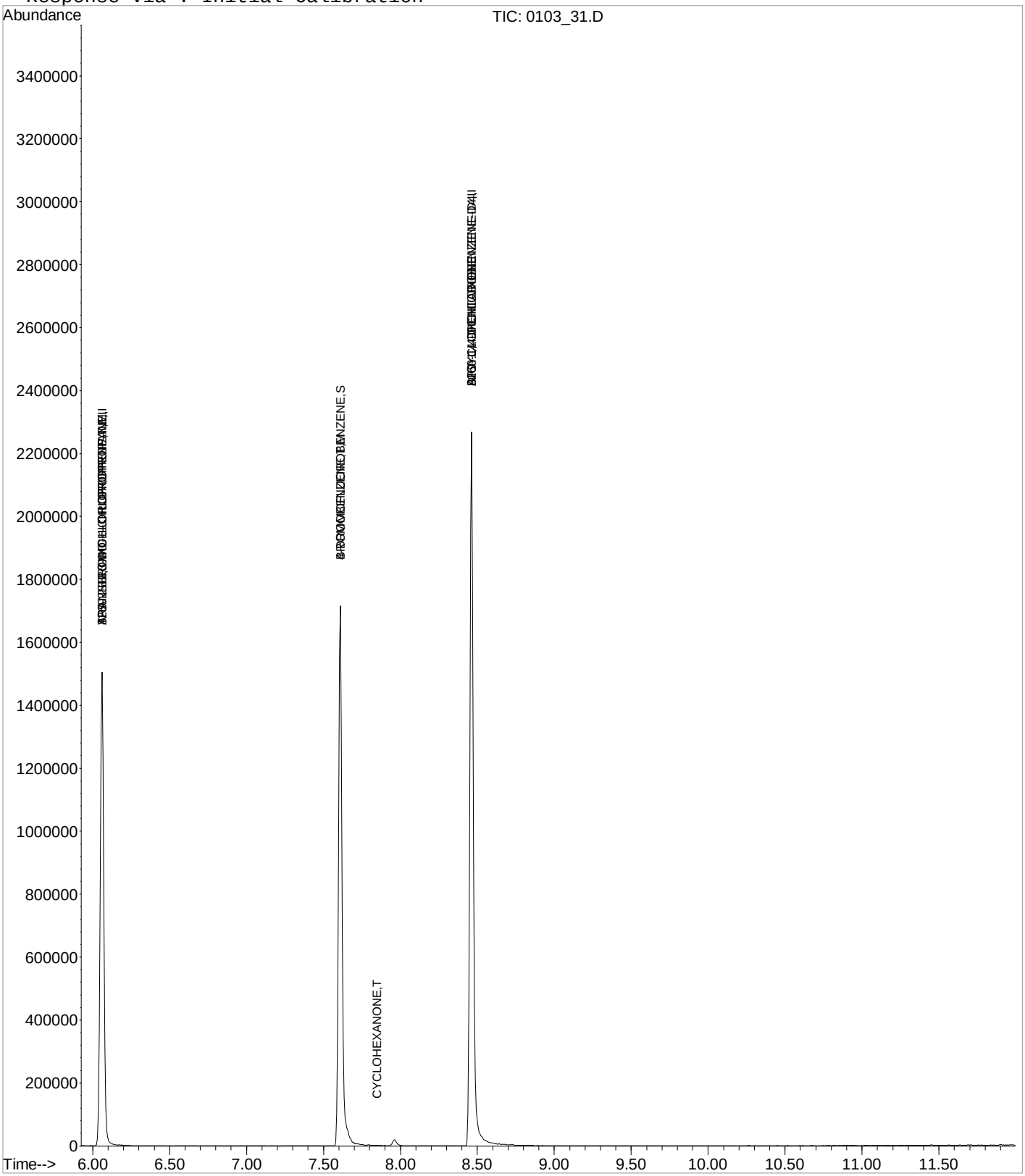
Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\010317\0103_31.D Vial: 31
Acq On : 3 Jan 2017 10:39 pm Operator: 605
Sample : INSTBLK Inst : VOCMS8
Misc : water IS/Surr16L30078 Multiplr: 1.00
MS Integration Params: RTEINTLRH.P
Quant Time: Jan 4 11:08 2017 Quant Results File: V808A03Q.RES

Method : C:\MSDCHEM\1\METHODS\V808A03Q.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Jan 04 11:04:31 2017
Response via : Initial Calibration



Instrument: VOCMS30
Method: V830B21Q

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0221_03.D	0.25	2/21/2017 2:37:00 PM
0221_04.D	0.5	2/21/2017 2:59:00 PM
0221_05.D	1	2/21/2017 3:22:00 PM
0221_06.D	2	2/21/2017 3:45:00 PM
0221_07.D	5.0	2/21/2017 4:07:00 PM
0221_08.D	10	2/21/2017 4:30:00 PM
0221_09.D	25	2/21/2017 4:53:00 PM
0221_10.D	40	2/21/2017 5:15:00 PM
0221_11.D	75	2/21/2017 5:38:00 PM
0221_12.D	100	2/21/2017 6:00:00 PM
0221_13.D	200	2/21/2017 6:23:00 PM
0221_18.D	1A	2/21/2017 8:16:00 PM
0221_19.D	2.5A	2/21/2017 8:38:00 PM
0221_20.D	5A	2/21/2017 9:01:00 PM
0221_21.D	7.5A	2/21/2017 9:24:00 PM
0221_22.D	10A	2/21/2017 9:46:00 PM
0221_23.D	12A	2/21/2017 10:09:00 PM
0221_24.D	15A	2/21/2017 10:31:00 PM
0221_25.D	17A	2/21/2017 10:54:00 PM
0221_26.D	20A	2/21/2017 11:16:00 PM

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\022117\0221_01.D					
Original Path: z:\022117\0221_01.D					
0	No Audit				
Scan File Path: z:\022117\0221_02.D					
Original Path: z:\022117\0221_02.D					
0	No Audit				
Scan File Path: z:\022117\0221_03.D					
Original Path: C:\msdchem\1\data\022117\0221_03.D					
27	Scanned	D(21), MZ(6)	605	VOCMS30	STD VMS 0.25 ppb 17B21483 (IS/SURR 16L30
Scan File Path: z:\022117\0221_04.D					
Original Path: C:\msdchem\1\data\022117\0221_04.D					
26	Scanned	D(20), MZ(6)	605	VOCMS30	STD VMS 0.5 ppb 17B21483 (IS/SURR 16L300
Scan File Path: z:\022117\0221_05.D					
Original Path: C:\msdchem\1\data\022117\0221_05.D					
28	Scanned	D(22), MZ(6)	605	VOCMS30	STD VMS 1 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_05A.D					
Original Path: C:\msdchem\1\data\022117\0221_05.D					
28	Scanned	D(22), MZ(6)	605	VOCMS30	STD VMS 1 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_06.D					
Original Path: C:\msdchem\1\data\022117\0221_06.D					
27	Scanned	D(21), MZ(6)	605	VOCMS30	STD VMS 2 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_06A.D					
Original Path: C:\msdchem\1\data\022117\0221_06.D					
27	Scanned	D(21), MZ(6)	605	VOCMS30	STD VMS 2 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_07.D					
Original Path: C:\msdchem\1\data\022117\0221_07.D					
29	Scanned	D(23), MZ(6)	605	VOCMS30	STD VMS 5 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_07A.D					
Original Path: C:\msdchem\1\data\022117\0221_07.D					
29	Scanned	D(23), MZ(6)	605	VOCMS30	STD VMS 5 ppb 17B21483 (IS/SURR 16L30078
Scan File Path: z:\022117\0221_08.D					
Original Path: C:\msdchem\1\data\022117\0221_08.D					
29	Scanned	D(23), MZ(6)	605	VOCMS30	STD VMS 10 ppb 17B21483 (IS/SURR 16L3007

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\022117\0221_09.D					
Original Path: C:\msdchem\1\data\022117\0221_09.D\data.ms					
52	Scanned	D(52)	605	VOCMS30	MSTD VMS 25 ppb 17B21483 (IS/SURR 16L30
Scan File Path: z:\022117\0221_10.D					
Original Path: C:\msdchem\1\data\022117\0221_10.D					
32	Scanned	D(26), MZ(6)	605	VOCMS30	STD VMS 40 ppb 17B21483 (IS/SURR 16L3007
Scan File Path: z:\022117\0221_11.D					
Original Path: C:\msdchem\1\data\022117\0221_11.D					
32	Scanned	D(26), MZ(6)	605	VOCMS30	STD VMS 70 ppb 17B21483 (IS/SURR 16L3007
Scan File Path: z:\022117\0221_12.D					
Original Path: C:\msdchem\1\data\022117\0221_12.D					
32	Scanned	D(26), MZ(6)	605	VOCMS30	STD VMS 100 ppb 17B21483 (IS/SURR 16L300
Scan File Path: z:\022117\0221_13.D					
Original Path: C:\msdchem\1\data\022117\0221_13.D					
36	Scanned	MP(1), M(1), D(26), MZ(6)	605	VOCMS30	STD VMS 200 ppb 17B21483 (IS/SURR 16L300
Scan File Path: z:\022117\0221_14.D					
Original Path: z:\022117\0221_14.D					
0	No Audit				
Scan File Path: z:\022117\0221_15.D					
Original Path: C:\msdchem\1\data\022117\0221_15.D\data.ms					
0	Scanned		605	VOCMS30	SSCV VMS 25 ppb 17B21486 (IS/SURR 16L300
Scan File Path: z:\022117\0221_16.D					
Original Path: z:\022117\0221_16.D					
0	No Audit				
Scan File Path: z:\022117\0221_17.D					
Original Path: z:\022117\0221_17.D					
0	No Audit				
Scan File Path: z:\022117\0221_18.D					
Original Path: C:\msdchem\1\data\022117\0221_18.D					
122	Scanned	D(86), DK(6), DC(6), DS(2), DP(3), DB(3), MZ(4)	605	VOCMS30	STD VMS 1a ppb 17B19356 (IS/SURR 16L3007
Scan File Path: z:\022117\0221_18A.D					
Original Path: C:\msdchem\1\data\022117\0221_18.D					
122	Scanned	D(86), DK(6), DC(6), DS(2), DP(3), DB(3), MZ(4)	605	VOCMS30	STD VMS 1a ppb 17B19356 (IS/SURR 16L3007

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\022117\0221_19.D					
Original Path: C:\msdchem\1\data\022117\0221_19.D					
122	Scanned	D(85), DK(7), DC(6), DS(2), DP(3), DB(3), MZ(4)	605	VOCMS30	STD VMS 2.5a ppb 17B19356 (IS/SURR 16L30(
Scan File Path: z:\022117\0221_20.D					
Original Path: C:\msdchem\1\data\022117\0221_20.D					
119	Scanned	D(82), DK(7), DC(6), DS(2), DP(3), DB(3), MZ(4)	605	VOCMS30	STD VMS 5.0a ppb 17B19356 (IS/SURR 16L30(
Scan File Path: z:\022117\0221_21.D					
Original Path: C:\msdchem\1\data\022117\0221_21.D					
115	Scanned	D(80), DC(6), DK(5), DS(2), DP(3), DB(3), MZ(4)	605	VOCMS30	STD VMS 7.5a ppb 17B19356 (IS/SURR 16L30(
Scan File Path: z:\022117\0221_22.D					
Original Path: C:\msdchem\1\data\022117\0221_22.D					
234	Scanned	D(164), DC(12), DK(12), DP(8), DS(4), DB(6), MZ(4)	605	VOCMS30	MSTD VMS 10a ppb 17B19356 (IS/SURR 16L3
Scan File Path: z:\022117\0221_23.D					
Original Path: C:\msdchem\1\data\022117\0221_23.D					
115	Scanned	D(81), DC(6), DK(5), DS(2), DB(3), DP(2), MZ(4)	605	VOCMS30	STD VMS 12.5a ppb 17B19356 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_24.D					
Original Path: C:\msdchem\1\data\022117\0221_24.D					
116	Scanned	D(81), DC(6), DK(5), DP(3), DS(2), DB(3), MZ(4)	605	VOCMS30	STD VMS 15a ppb 17B19356 (IS/SURR 16L300
Scan File Path: z:\022117\0221_25.D					
Original Path: C:\msdchem\1\data\022117\0221_25.D					
115	Scanned	D(80), DC(6), DK(5), DP(3), DS(2), DB(3), MZ(4)	605	VOCMS30	STD VMS 17.5a ppb 17B19356 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_26.D					
Original Path: C:\msdchem\1\data\022117\0221_26.D					
114	Scanned	D(79), DC(6), DK(5), DP(3), DS(2), DB(3), MZ(4)	605	VOCMS30	STD VMS 20a ppb 17B19356 (IS/SURR 16L300
Scan File Path: z:\022117\0221_27.D					
Original Path: z:\022117\0221_27.D					
0	No Audit				
Scan File Path: z:\022117\0221_28.D					
Original Path: C:\msdchem\1\data\022117\0221_28.D\data.ms					
0	Scanned		605	VOCMS30	SSCV VMS 10a ppb 17B19365 (IS/SURR 16L3(

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\022117\0221_29.D					
Original Path: z:\022117\0221_29.D					
0	No Audit				
Scan File Path: z:\022117\0221_30.D					
Original Path: z:\022117\0221_30.D					
0	No Audit				
Scan File Path: z:\022117\0221_31.D					
Original Path: C:\msdchem\1\data\022117\0221_31.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 0.4 ppm 17B20458 (IS/SURR 16L
Scan File Path: z:\022117\0221_32.D					
Original Path: C:\msdchem\1\data\022117\0221_32.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 1 ppm 17B20458 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_33.D					
Original Path: C:\msdchem\1\data\022117\0221_33.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 2 ppm 17B20458 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_34.D					
Original Path: C:\msdchem\1\data\022117\0221_34.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 4 ppm 17B20458 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_35.D					
Original Path: C:\msdchem\1\data\022117\0221_35.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	MSTD GROMS 5 ppm 17B20458 (IS/SURR 16L
Scan File Path: z:\022117\0221_36.D					
Original Path: C:\msdchem\1\data\022117\0221_36.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 7 ppm 17B20458 (IS/SURR 16L3(
Scan File Path: z:\022117\0221_37.D					
Original Path: C:\msdchem\1\data\022117\0221_37.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 10 ppm 17B20458 (IS/SURR 16L3
Scan File Path: z:\022117\0221_38.D					
Original Path: C:\msdchem\1\data\022117\0221_38.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	STD GROMS 20 ppm 17B20458 (IS/SURR 16L3
Scan File Path: z:\022117\0221_39.D					
Original Path: z:\022117\0221_39.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\022117\0221_40.D					
Original Path: C:\msdchem\1\data\022117\0221_40.D\data.ms					
0	Scanned		605	VOCMS30	SSCV GROMS 5 ppb 17B20459 (IS/SURR 16L3
Scan File Path: z:\022117\0221_41.D					
Original Path: C:\msdchem\1\data\022117\0221_41.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	SSCV GROMS 5.0 ppm 17B20459 (IS/SURR 16
Scan File Path: z:\022117\0221_42.D					
Original Path: 0221_42.D					
0	Scanned		605	VOCMS30	INSTBLK VMS (IS/SURR 16L30078)
Scan File Path: z:\022117\0221_43.D					
Original Path: C:\msdchem\1\data\022117\0221_43.D\data.ms					
1	Scanned	M(1)	605	VOCMS30	SSCV GROMS 5.0 ppm 17B20459 (IS/SURR 16

D = Deletion of any analyte
DB = Deletion of a common contaminant
DC = Deletion of a CCC
DK = Deletion of a spike compound
DP = Deletion of an SPCC
DS = Deletion of a surrogate
M = Manual integration (non-specific)
MP = Manual integration of an SPCC
MZ = Manual integrated but indicator missing from either the quant report or audit file

ScanSummary.rpt

Total Files Scanned	47	Beginning Analyzed Date	2/21/2017 2:04:31PM
Methods	0	Ending Analyzed Date	2/22/2017 2:49:00PM
Samples	46	Analyzed Range	24 hours, 45 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : Amy Green
Date Released : 2/22/2017 3:23:26 PM
Run ID : 022117
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
1	0221_03	STD VMS 0.25 PPB 17B21483	V830B21Q					1	1	02/21/17 1437	"IS/SURR 16L30078 "
2	0221_04	STD VMS 0.5 PPB 17B21483	V830B21Q					1	1	02/21/17 1459	"IS/SURR 16L30078 "
3	0221_05	STD VMS 1 PPB 17B21483	V830B21Q					1	1	02/21/17 1522	"IS/SURR 16L30078 "
4	0221_05A-6	RL VMS 1 PPB 17B21483	V830B21Q					1	1	02/21/17 1522	"IS/SURR 16L30078 "
5	0221_06	STD VMS 2 PPB 17B21483	V830B21Q					1	1	02/21/17 1545	"IS/SURR 16L30078 "
6	0221_06A-6	RL VMS 2 PPB 17B21483	V830B21Q					1	1	02/21/17 1545	"IS/SURR 16L30078 "
7	0221_07	STD VMS 5 PPB 17B21483	V830B21Q					1	1	02/21/17 1607	"IS/SURR 16L30078 "
8	0221_07A-6	RL VMS 5.0 PPB 17B21483	V830B21Q					1	1	02/21/17 1607	"IS/SURR 16L30078 "
9	0221_08	STD VMS 10 PPB 17B21483	V830B21Q					1	1	02/21/17 1630	"IS/SURR 16L30078 "
10	0221_09	MSTD VMS 25 PPB 17B21483	V830B21Q					1	1	02/21/17 1653	"IS/SURR 16L30078 "
11	0221_10	STD VMS 40 PPB 17B21483	V830B21Q					1	1	02/21/17 1715	"IS/SURR 16L30078 "
12	0221_11	STD VMS 70 PPB 17B21483	V830B21Q					1	1	02/21/17 1738	"IS/SURR 16L30078 "
13	0221_12	STD VMS 100 PPB 17B21483	V830B21Q					1	1	02/21/17 1800	"IS/SURR 16L30078 "
14	0221_13	STD VMS 200 PPB 17B21483	V830B21Q					1	1	02/21/17 1823	"IS/SURR 16L30078 "
15	0221_15-6	SSCV VMS 25 PPB 17B21486	V830B21Q					1	1	02/21/17 1908	"IS/SURR 16L30078 "
16	0221_18	STD VMS 1A PPB 17B19356	V830B21Q					1	1	02/21/17 2016	"IS/SURR 16L30078 "
17	0221_18A-6	RL VMS 1A PPB 17B19356	V830B21Q					1	1	02/21/17 2016	"IS/SURR 16L30078 "
18	0221_19	STD VMS 2.5A PPB 17B19356	V830B21Q					1	1	02/21/17 2038	"IS/SURR 16L30078 "
19	0221_20	STD VMS 5.0A PPB 17B19356	V830B21Q					1	1	02/21/17 2101	"IS/SURR 16L30078 "
20	0221_21	STD VMS 7.5A PPB 17B19356	V830B21Q					1	1	02/21/17 2124	"IS/SURR 16L30078 "
21	0221_22	MSTD VMS 10A PPB 17B19356	V830B21Q					1	1	02/21/17 2146	"IS/SURR 16L30078 "
22	0221_23	STD VMS 12.5A PPB 17B19356	V830B21Q					1	1	02/21/17 2209	"IS/SURR 16L30078 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : Amy Green
Date Released : 2/22/2017 3:23:26 PM
Run ID : 022117
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	State	Dil.	Mult.	Injected	Misc.
23	0221_24	STD VMS 15A PPB 17B19356	V830B21Q					1	1	02/21/17 2231	"IS/SURR 16L30078 "
24	0221_25	STD VMS 17.5A PPB 17B19356	V830B21Q					1	1	02/21/17 2254	"IS/SURR 16L30078 "
25	0221_26	STD VMS 20A PPB 17B19356	V830B21Q					1	1	02/21/17 2316	"IS/SURR 16L30078 "
26	0221_28-6	SSCV VMS 10A PPB 17B19365	V830B21Q					1	1	02/22/17 0001	"IS/SURR 16L30078 "
27	0221_42	INSTBLK	V830B21Q					1	1	02/22/17 1426	"IS/SURR 16L30078 "
28	0221_42	INSTBLK VMS	V830B21Q						1	02/22/17 1426	

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260B
Review Protocol : VDoD
Released By : Amy Green
Released On : 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260B
Review Protocol : VDoD
Released By : Amy Green
Released On : 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 601-602	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 601-602	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 601-602	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 601-602	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 624	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 624	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 624	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: EPA	Released On	: 2/22/2017 3:22:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260SC	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SC	Released On	: 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260SC	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SC	Released On	: 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260SC	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SC	Released On	: 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260SC	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SC	Released On	: 2/22/2017 3:22:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 6200	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SM 20th	Released On	: 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 6200	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SM 20th	Released On	: 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 6200	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SM 20th	Released On	: 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 6200	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SM 20th	Released On	: 2/22/2017 3:22:52 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260B
Review Protocol : VDoD
Released By : Amy Green
Released On : 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0
LRH (C5-C8)																					0	0	0	1
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260B
Review Protocol : VDoD
Released By : Amy Green
Released On : 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-2-BROMO-1-CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS30	Review Method	: 8260B	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: VDoD	Released On	: 2/22/2017 3:23:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1
AP9-2-BROMO-1-CHLOROPROPANE																								
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1
AP9-1,4-DICHLOROBENZENE-D4																								

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION	813	1448	1643	1495	1606	1714	1630														1478.319	20.76	0.997	0	
LRH (C5-C8)																					0	0	0	1	
PROPENE		0.614	0.589	0.605	0.46	0.515	0.473	0.483	0.467	0.446	0.474										0.512576	12.66	0.127	1	
DICHLORODIFLUOROMETHANE			0.477	0.59	0.508	0.605	0.576	0.589	0.566	0.551	0.638										0.566651	8.67	0.087	1	0.1
CHLOROMETHANE		0.696	0.707	0.752	0.622	0.693	0.653	0.723	0.808	0.864	0.962										0.747887	13.79	0.138	1	0.1
VINYL CHLORIDE		0.542	0.61	0.7	0.606	0.658	0.639	0.649	0.645	0.638	0.643										0.632937	6.51	0.065	1	0.1
1,3-BUTADIENE		0.605	0.555	0.562	0.47	0.511	0.461	0.474	0.455	0.445	0.431										0.496818	11.81	0.118	1	
BROMOMETHANE					0.251	0.228	0.217	0.215	0.213	0.214	0.201										0.219743	7.12	0.071	1	0.1
CHLOROETHANE		0.369	0.382	0.376	0.353	0.378	0.371	0.366	0.365	0.359	0.247										0.356512	11.11	0.111	1	0.1
TRICHLOROFLUOROMETHANE		0.659	0.733	0.82	0.729	0.837	0.786	0.816	0.806	0.799	0.797										0.77824	7.01	0.07	1	0.1
DICHLOROFLUOROMETHANE		1.011	0.994	1.074	0.997	1.043	1.008	1.033	1.02	1.004	0.977										1.016047	2.74	0.027	1	
ETHYL ETHER	0.421	0.388	0.375	0.42	0.376	0.399	0.393	0.411	0.413	0.405	0.41										0.400988	4.04	0.04	1	
ACROLEIN	0.032	0.043	0.044	0.049	0.022	0.038	0.053	0.037	0.048	0.063	0.075										0.045908	31.46	0.997	3	
1,1-DICHLOROETHENE		0.532	0.503	0.547	0.474	0.496	0.483	0.489	0.491	0.488	0.473										0.49749	4.88	0.049	1	0.1
1,1,2-TRICHLOROTRIFLUOROETHANE	0.599	0.33	0.378	0.509	0.418	0.499	0.473	0.493	0.47	0.466	0.455										0.462675	15.26	0.153	1	0.1
ACETONE	0.249	0.203	0.168	0.204	0.174	0.191	0.191	0.184	0.197	0.188	0.192										0.194623	10.85	0.108	1	0.1
IODOMETHANE	0.672	0.595	0.608	0.668	0.662	0.731	0.697	0.709	0.668	0.605	0.55										0.651316	8.45	0.085	1	
CARBON DISULFIDE		1.68	1.709	1.775	1.525	1.628	1.507	1.55	1.559	1.553	1.546										1.603173	5.62	0.056	1	0.1
ALLYL CHLORIDE	0.32	0.255	0.286	0.304	0.275	0.292	0.265	0.269	0.254	0.235	0.226										0.270868	10.48	0.105	1	

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYLENE CHLORIDE		0.668	0.66	0.635	0.5	0.487	0.482	0.496	0.505	0.499	0.503										0.543385	14.2	0.142	1	0.1
METHYL ACETATE	0.401	0.404	0.407	0.41	0.385	0.386	0.369	0.384	0.385	0.363	0.354										0.386182	4.8	0.048	1	0.1
ACRYLONITRILE	0.238	0.224	0.206	0.233	0.212	0.209	0.203	0.206	0.214	0.201	0.199										0.213314	6.09	0.061	1	
n-HEXANE	0.494	0.422	0.405	0.45	0.353	0.399	0.376	0.389	0.361	0.357	0.351										0.396001	11.37	0.114	1	
TRANS-1,2-DICHLOROETHENE		0.5	0.567	0.573	0.493	0.517	0.496	0.501	0.5	0.5	0.508										0.515618	5.71	0.057	1	0.1
METHYL TERT-BUTYL ETHER	1.51	1.574	1.598	1.662	1.378	1.423	1.387	1.422	1.44	1.411	1.43										1.475913	6.46	0.065	1	0.1
1,1-DICHLOROETHANE	1.194	0.886	0.925	1.019	0.92	0.966	0.94	0.953	0.953	0.945	0.942										0.967367	8.45	0.085	1	0.2
VINYL ACETATE	0.841	0.868	0.856	0.91	0.84	0.83	0.802	0.827	0.817	0.79	0.803										0.834904	4.12	0.041	1	
DI-ISOPROPYL ETHER	1.707	1.503	1.442	1.572	1.419	1.495	1.493	1.511	1.522	1.477	1.47										1.510045	5.08	0.051	1	
ETHYL TERT-BUTYL ETHER	1.56	1.287	1.456	1.521	1.373	1.398	1.368	1.382	1.408	1.359	1.369										1.407313	5.52	0.055	1	
2,2-DICHLOROPROPANE		0.953	0.893	0.908	0.859	0.869	0.831	0.86	0.857	0.851	0.841										0.872083	4.17	0.042	1	
CIS-1,2-DICHLOROETHENE	0.861	0.575	0.575	0.608	0.535	0.571	0.556	0.56	0.569	0.57	0.574										0.596062	15.04	0.15	1	0.1
2-BUTANONE (MEK)	0.243	0.315	0.276	0.274	0.272	0.26	0.224	0.254	0.234	0.224	0.222										0.254373	11.4	0.114	1	0.1
BROMOCHLOROMETHANE	0.293	0.297	0.296	0.335	0.293	0.293	0.262	0.269	0.255	0.227	0.221										0.276515	12.2	0.122	1	
TETRAHYDROFURAN				0.188	0.202	0.184	0.166	0.168	0.163	0.155	0.151										0.172221	10.19	0.102	1	
CHLOROFORM	1.168	0.982	0.995	1.074	0.907	0.952	0.903	0.914	0.908	0.901	0.897										0.963527	9.05	0.09	1	0.2
CYCLOHEXANE		0.635	0.685	0.813	0.698	0.805	0.751	0.76	0.738	0.741	0.731										0.735865	7.28	0.073	1	0.1
DIBROMOFLUOROMETHANE	0.501	0.5	0.503	0.499	0.495	0.497	0.496	0.501	0.491	0.503	0.487										0.497476	0.99	0.01	1	
1,1,1-TRICHLOROETHANE		0.798	0.836	0.886	0.792	0.818	0.794	0.825	0.815	0.836	0.827										0.822773	3.35	0.033	1	0.1
CARBON TETRACHLORIDE		0.821	0.758	0.822	0.71	0.757	0.713	0.739	0.744	0.745	0.743										0.755118	5.1	0.051	1	0.1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,1-DICHLOROPROPENE		0.649	0.734	0.809	0.679	0.722	0.711	0.722	0.715	0.722	0.714										0.717812	5.67	0.057	1	
2,2,4-TRIMETHYLPENTANE	1.054	1	1.13	1.347	1.153	1.36	1.304	1.362	1.299	1.292	1.292										1.235783	10.39	0.104	1	
n-Heptane	0.447	0.292	0.293	0.333	0.343	0.367	0.347	0.362	0.356	0.358	0.36										0.350933	11.75	0.118	1	
BENZENE	2.342	1.966	1.935	2.167	1.909	1.991	1.941	1.985	1.989	1.984	1.989										2.017942	6.25	0.063	1	0.5
TERT-AMYL METHYL ETHER	2.1	1.382	1.563	1.569	1.351	1.39	1.38	1.422	1.423	1.402	1.404										1.489714	14.42	0.144	1	
1,2-DICHLOROETHANE	0.692	0.649	0.651	0.729	0.63	0.664	0.656	0.651	0.656	0.652	0.652										0.662034	4.01	0.04	1	0.1
T-AMYL ALCOHOL	0.064	0.061	0.062	0.062	0.057	0.054	0.05	0.052	0.052	0.045	0.041										0.054648	13.51	0.135	1	
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.413	0.294	0.34	0.351	0.323	0.342	0.336	0.338	0.348	0.342	0.345										0.342965	8.2	0.082	1	0.2
METHYL CYCLOHEXANE			0.94	0.771	0.555	0.564	0.526	0.528	0.508	0.499	0.503										0.599417	25.5	1	0	0.1
1,2-DICHLOROPROPANE	0.217	0.246	0.233	0.242	0.207	0.225	0.219	0.221	0.224	0.216	0.223										0.224947	5.12	0.051	1	0.1
DIBROMOMETHANE	0.237	0.194	0.198	0.213	0.2	0.208	0.206	0.21	0.213	0.205	0.202										0.207885	5.5	0.055	1	
BROMODICHLOROMETHANE	0.628	0.482	0.436	0.495	0.395	0.421	0.421	0.422	0.431	0.42	0.44										0.453704	14.17	0.142	1	0.2
A,A,A-TRIFLUOROTOLUENE	0.551	0.56	0.548	0.55	0.547	0.542	0.547	0.55	0.544	0.551	0.577										0.551456	1.71	0.017	1	
2-CHLOROETHYL VINYL ETHER	0.216	0.205	0.211	0.226	0.204	0.211	0.209	0.214	0.211	0.2	0.198										0.209641	3.69	0.037	1	
CIS-1,3-DICHLOROPROPENE	0.482	0.471	0.451	0.492	0.445	0.465	0.47	0.482	0.491	0.474	0.492										0.474033	3.34	0.033	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.341	0.315	0.297	0.329	0.301	0.307	0.307	0.303	0.305	0.284	0.279										0.306254	5.85	0.059	1	0.1
TOLUENE-D8	1.179	1.177	1.165	1.165	1.153	1.16	1.183	1.201	1.21	1.219	1.284										1.190534	3.14	0.031	1	
TOLUENE	1.673	1.365	1.33	1.482	1.267	1.337	1.31	1.316	1.333	1.303	1.322										1.366901	8.4	0.084	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.484	0.412	0.423	0.498	0.411	0.432	0.43	0.438	0.444	0.429	0.439										0.439974	6.2	0.062	1	0.1

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-2-BROMO-1-CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	2.212	1.588	1.796	1.775	1.591	1.682	1.633	1.685	1.708	1.623	1.58										1.715602	10.48	0.105	1	0.1
TETRACHLOROETHENE		1.437	1.528	1.822	1.573	1.6	1.542	1.548	1.506	1.454	1.366										1.537654	7.93	0.079	1	0.2
1,3-DICHLOROPROPANE	2.87	2.594	2.828	3.039	2.729	2.813	2.837	2.84	2.873	2.737	2.632										2.799217	4.39	0.044	1	
2-HEXANONE	0.818	0.728	0.729	0.823	0.801	0.808	0.791	0.785	0.806	0.729	0.685										0.772907	6.03	0.06	1	0.1
CHLORODIBROMOMETHANE	2.01	1.966	1.761	1.911	1.81	1.859	1.876	1.971	2.018	1.938	1.891										1.910171	4.24	0.042	1	0.1
1,2-DIBROMOETHANE	1.895	1.758	1.773	1.968	1.72	1.816	1.788	1.887	1.908	1.82	1.76										1.826598	4.25	0.043	1	0.1
CHLOROBENZENE	5.016	4.579	4.986	5.712	4.982	5.255	5.007	5.005	4.945	4.663	4.384										4.95762	7.06	0.071	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.016	1.914	1.896	1.847	1.65	1.652	1.598	1.633	1.655	1.588	1.561										1.728164	9.16	0.092	1	
ETHYLBENZENE	3.237	2.675	2.824	3.381	2.985	3	2.899	2.927	2.871	2.752	2.582										2.921042	7.94	0.079	1	0.1
M&P-XYLENE	3.69	3.248	3.609	3.959	3.478	3.582	3.377	3.399	3.423	3.241	3.052										3.460001	7.14	0.071	1	0.1
O-XYLENE	3.588	3.387	3.503	3.67	3.33	3.505	3.377	3.482	3.49	3.348	3.159										3.439908	4.04	0.04	1	0.3
STYRENE	5.037	4.966	5.322	5.701	5.167	5.404	5.195	5.295	5.338	5.02	4.762										5.200641	4.88	0.049	1	0.3
BROMOFORM	1.353	1.116	1.231	1.31	1.175	1.25	1.242	1.295	1.341	1.282	1.253										1.258988	5.55	0.055	1	0.1
ISOPROPYLBENZENE	10.7	8.33	8.93	9.85	8.83	9.27	8.89	8.98	8.83	8.450001	7.74										8.98208	8.68	0.087	1	0.1
4-BROMOFLUOROBENZENE	2.703	2.766	2.72	2.72	2.779	2.719	2.775	2.83	2.812	2.801	2.699										2.756589	1.69	0.017	1	
BROMOBENZENE	4.952	3.493	3.624	3.894	3.427	3.514	3.355	3.45	3.416	3.215	3.02										3.578084	14.14	0.141	1	
1,1,2,2-TETRACHLOROETHANE	3.393	2.718	2.558	2.615	2.309	2.375	2.272	2.289	2.32	2.173	2.032										2.459514	14.94	0.149	1	0.3
1,2,3-TRICHLOROPROPANE	0.956	0.646	0.755	0.761	0.653	0.675	0.681	0.686	0.707	0.662	0.631										0.710263	12.88	0.129	1	
TRANS-1,4-DICHLORO-2-BUTENE			0.738	0.768	0.688	0.671	0.663	0.697	0.702	0.659	0.621										0.689778	6.35	0.064	1	

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
N-PROPYLBENZENE	13.55	9.59	9.51	10.72	9.71	9.96	9.85	9.98	9.88	9.36	8.51										10.05627	12.68	0.127	1	
4-ETHYLTOLUENE	9.728	7.923	8.326	9.098	8.336	8.478	8.142	8.352	8.207	7.701	7.136										8.311678	8.16	0.082	1	
2-CHLOROTOLUENE	7.696	5.84	6.593	6.938	6.231	6.313	6.039	6.049	5.984	5.599	5.179										6.22369	10.87	0.109	1	
4-CHLOROTOLUENE	7.211	5.856	6.148	6.191	5.761	5.929	5.791	5.884	5.946	5.611	5.236										5.960395	8.2	0.082	1	
1,3,5-TRIMETHYLBENZENE	8.163	6.432	6.945	7.717	6.878	7.11	6.68	6.805	6.815	6.374	5.791										6.882697	9.3	0.093	1	
TERT-BUTYLBENZENE	7.917	5.723	6.025	6.345	5.932	6.171	5.877	5.982	5.954	5.671	5.226										6.074693	11.12	0.111	1	
1,2,4-TRIMETHYLBENZENE	7.239	6.749	6.978	7.309	6.701	7.002	6.646	6.861	6.821	6.38	5.842										6.775151	6	0.06	1	
SEC-BUTYLBENZENE	12.8	8.57	9.04	9.62	8.77	8.97	8.63	8.86	8.88	8.33	7.61										9.0978	14.54	0.145	1	
1,3-DICHLOROBENZENE	3.606	3.553	3.623	3.927	3.547	3.667	3.597	3.663	3.66	3.412	3.185										3.585539	5.06	0.051	1	0.6
P-ISOPROPYLTOLUENE	9.118	6.777	7.044	7.83	7.133	7.387	7.088	7.314	7.256	6.754	6.121										7.2564	10.38	0.104	1	
DICYCLOPENTADIENE	9.087	7.617	7.426	8.364	7.647	7.717	7.315	7.344	7.195	6.731	6.223										7.515079	10.07	0.101	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.289	1.342	1.279	1.363	1.203	1.3	1.269	1.282	1.29	1.237	1.229										1.280479	3.66	0.037	1	
1,2,3-TRIMETHYLBENZENE	2.727	2.361	2.39	2.72	2.271	2.478	2.384	2.443	2.418	2.309	2.288										2.435309	6.41	0.064	1	
1,2-DICHLOROBENZENE	1.287	1.13	1.233	1.371	1.211	1.324	1.286	1.303	1.311	1.258	1.25										1.269318	5.07	0.051	1	0.4
N-BUTYLBENZENE	3.384	2.308	2.4	2.675	2.33	2.531	2.48	2.529	2.519	2.434	2.37										2.541758	11.76	0.118	1	
1,2-DIBROMO-3-CHLOROPROPANE	0.182	0.177	0.234	0.2	0.202	0.214	0.218	0.222	0.235	0.219	0.233										0.212353	9.43	0.094	1	0.05
1,2,4-TRICHLOROBENZENE	0.736	0.735	0.714	0.781	0.718	0.777	0.748	0.787	0.785	0.758	0.787										0.756873	3.73	0.037	1	0.2
HEXACHLORO-1,3-BUTADIENE		0.283	0.306	0.339	0.303	0.337	0.327	0.339	0.341	0.325	0.333										0.323255	6.02	0.06	1	
NAPHTHALENE	2.461	2.478	2.347	2.565	2.406	2.591	2.575	2.75	2.72	2.574	2.659										2.556764	4.92	0.049	1	
1,2,3-TRICHLOROBENZENE	0.782	0.664	0.689	0.76	0.702	0.738	0.726	0.775	0.752	0.728	0.752										0.733411	5	0.05	1	

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830B21Q
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1-METHYLNAPHTHALENE	0.997	0.992	0.902	1.107	1.041	1.071	1.05	1.148	1.141	1.098	1.166										1.064832	7.47	0.075	1	
2-METHYLNAPHTHALENE	1.125	0.937	0.893	1.007	0.942	0.938	0.959	1.025	1.053	1.011	1.054										0.995022	6.82	0.068	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.006	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.005347	4.36	0.044	1	
BROMOETHANE												0.249	0.316	0.319	0.336	0.356	0.412	0.437			0.346495	18.14	0.999	3	
2-PROPANOL												0.031	0.031	0.032	0.031	0.029	0.031	0.032	0.029	0.031	0.03093	3.66	0.037	1	
ACETONITRILE												0.073	0.08	0.078	0.076	0.078	0.08	0.082	0.078	0.081	0.078429	3.41	0.034	1	
TERT-BUTYL ALCOHOL												0.112	0.12	0.128	0.116	0.109	0.113	0.109	0.103	0.105	0.112682	6.77	0.068	1	
CHLOROPRENE												0.734	0.813	0.785	0.773	0.766	0.776	0.787	0.781	0.781	0.777201	2.68	0.027	1	
PROPIONITRILE												0.086	0.095	0.091	0.089	0.089	0.092	0.092	0.089	0.091	0.090456	2.88	0.029	1	
ETHYL ACETATE												0.517	0.589	0.564	0.556	0.564	0.571	0.571	0.554	0.571	0.561877	3.49	0.035	1	
METHACRYLONITRILE												0.209	0.224	0.212	0.208	0.21	0.212	0.212	0.206	0.212	0.21175	2.44	0.024	1	
TERT-BUTYL FORMATE												0.247	0.26	0.253	0.245	0.254	0.29	0.289	0.282	0.293	0.267924	7.47	0.075	1	
ISOBUTANOL												0.022	0.025	0.024	0.023	0.024	0.025	0.025	0.023	0.025	0.023925	4.21	0.042	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.007754	5.87	0.059	1	
2-NITROPROPANE												0.094	0.103	0.093	0.094	0.096	0.1	0.101	0.1	0.102	0.098042	3.91	0.039	1	
METHYL METHACRYLATE												0.282	0.315	0.299	0.301	0.291	0.299	0.297	0.288	0.292	0.295954	3.11	0.031	1	
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002993	5.53	0.055	1	
N-OCTANE												0.196	0.214	0.206	0.211	0.204	0.213	0.21	0.205	0.203	0.206714	2.84	0.028	1	

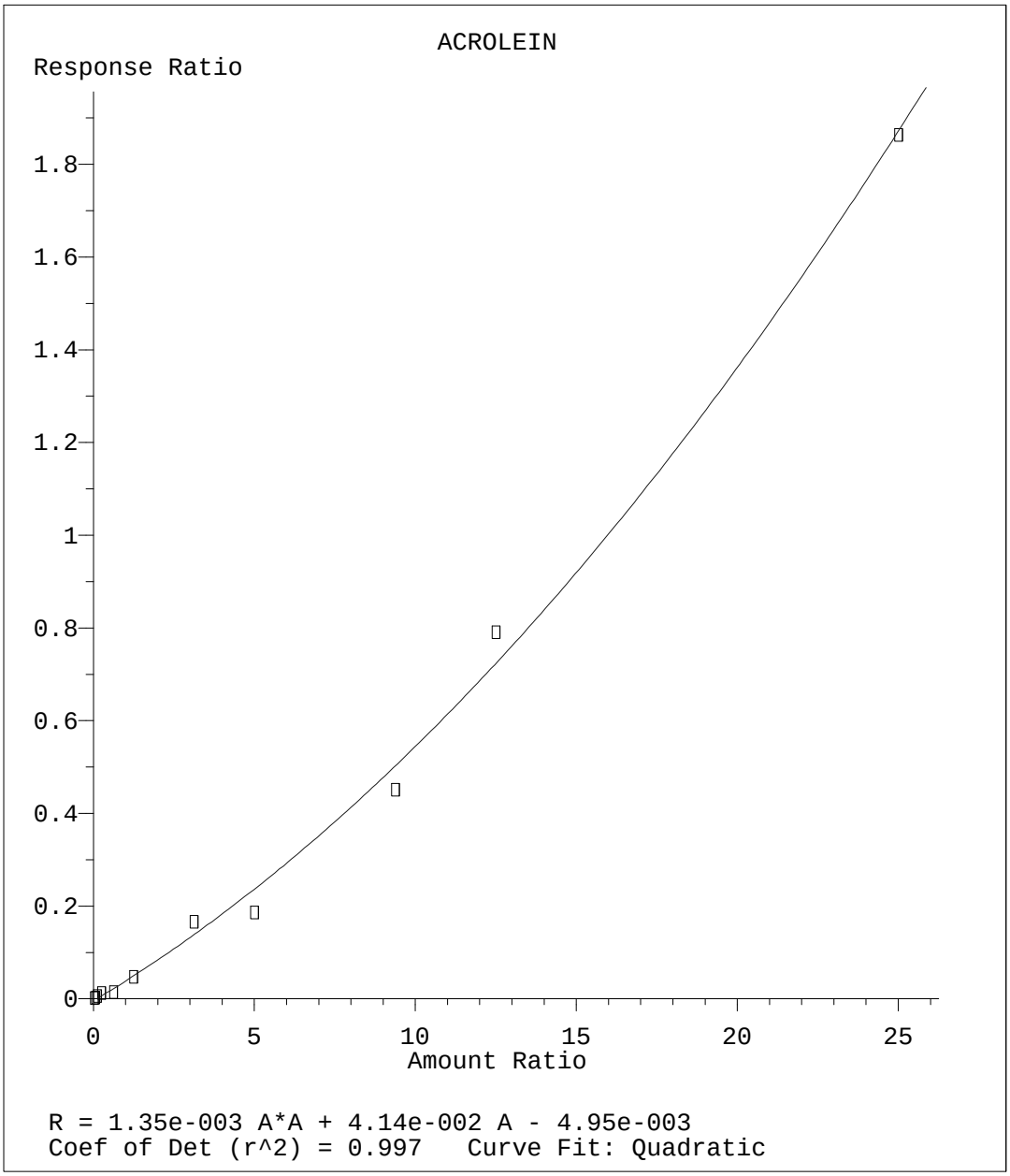
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

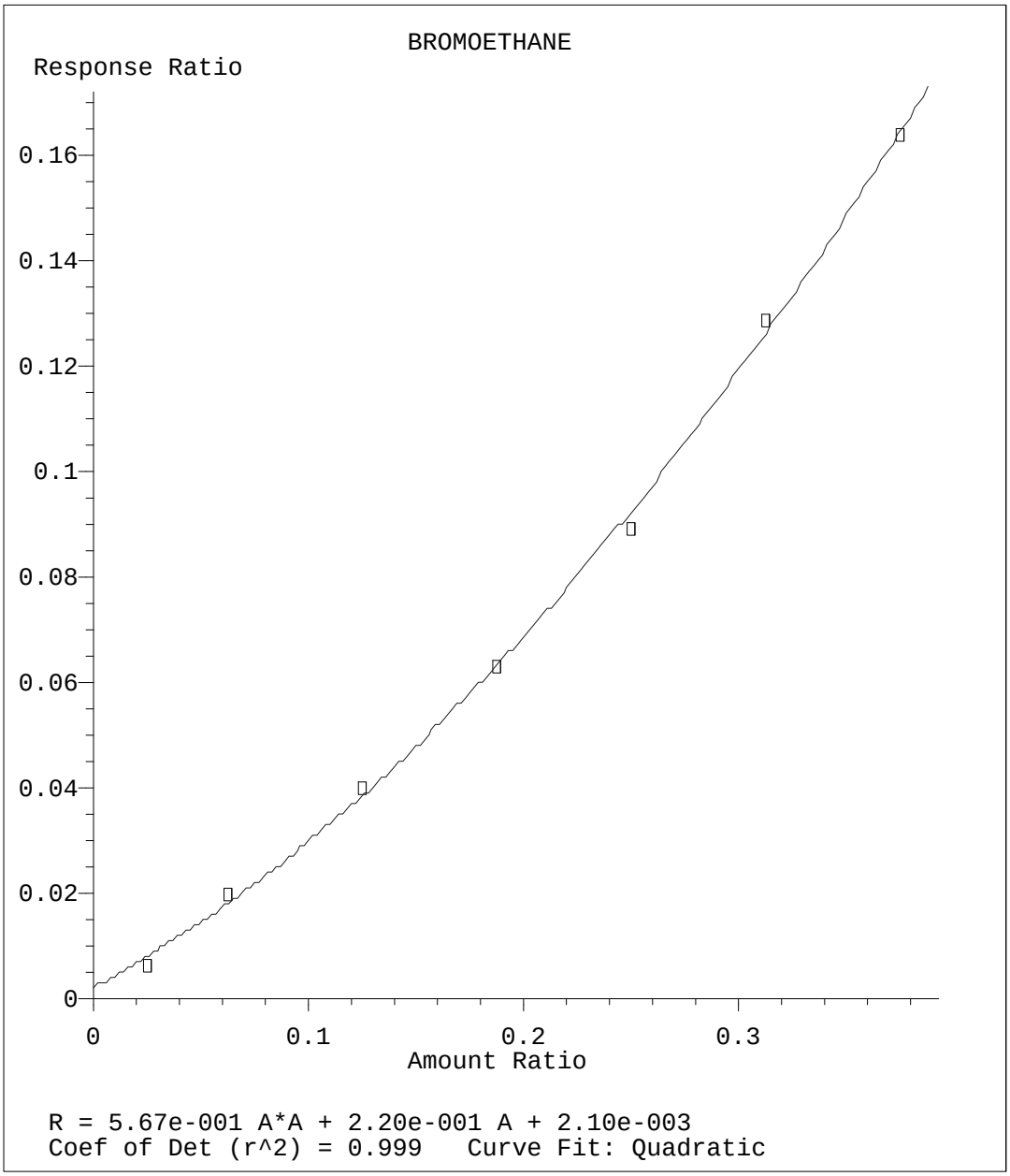
Instrument ID	: VOCMS30	Review Method	: 8260C	Released By	: Amy Green
Method	: V830B21Q	Review Protocol	: SW846	Released On	: 2/22/2017 3:23:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830B21Q -- ICal Updated Time: Wed Feb 22 14:00:51 2017

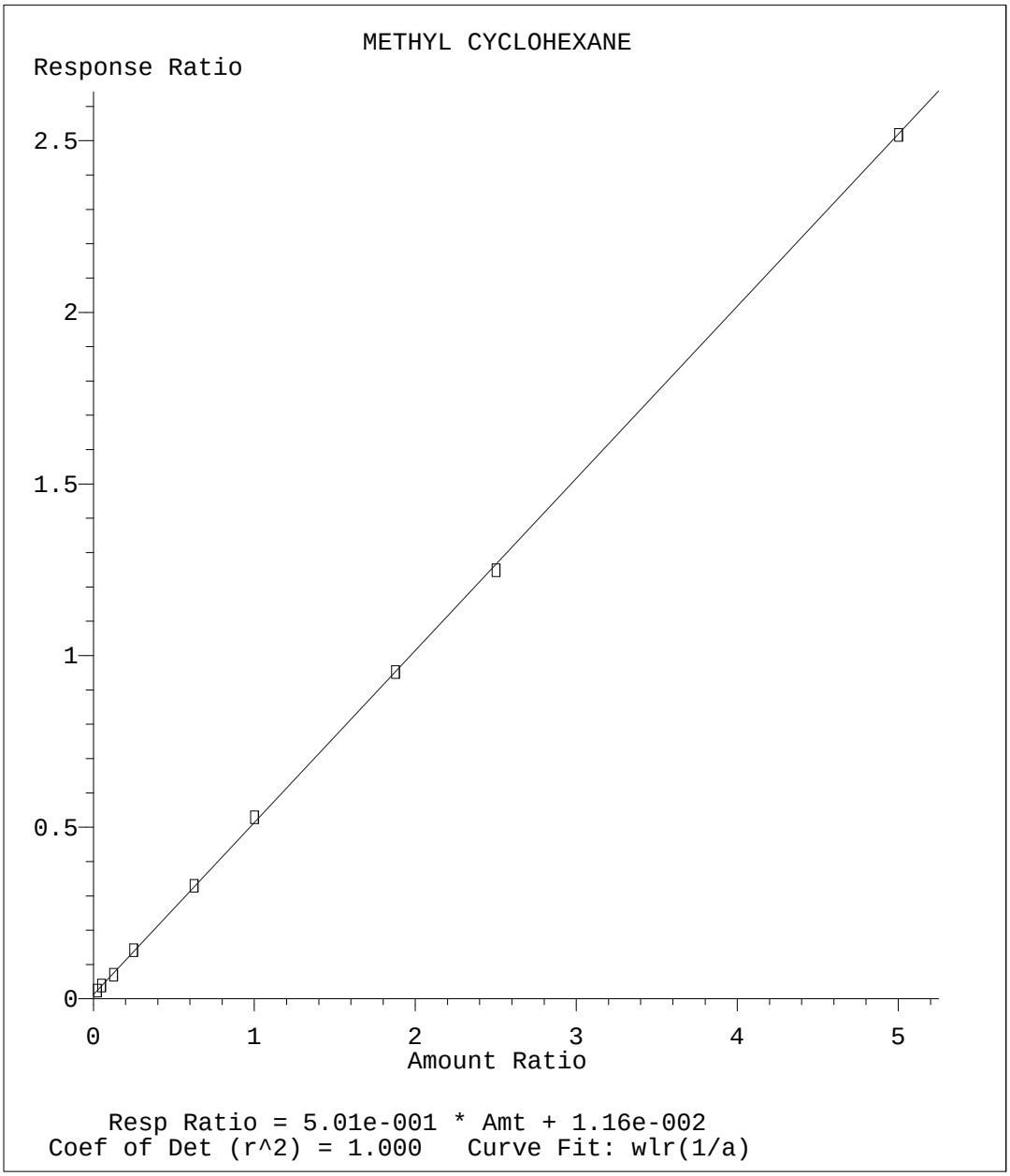
Parameter	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
3,3-DIMETHYL-1-BUTANOL												0.028	0.029	0.028	0.027	0.028	0.029	0.028	0.026	0.027	0.027867	3.26	0.033	1	
AP9-2-BROMO-1-CHLOROPROPANE																									
ETHYL METHACRYLATE												2.172	2.281	2.196	2.195	2.208	2.212	2.216	2.187	2.229	2.210666	1.42	0.014	1	
CIS-1,4-DICHLORO-2-BUTENE												0.701	0.756	0.724	0.724	0.736	0.783	0.792	0.783	0.801	0.755644	4.72	0.047	1	
CYCLOHEXANONE												0.088	0.097	0.094	0.103	0.085	0.084	0.075	0.08	0.078	0.087099	10.47	0.105	1	
PENTACHLOROETHANE												0.984	1.041	1.038	1.023	1.055	1.049	1.067	1.045	1.058	1.039942	2.37	0.024	1	
HEXACHLOROETHANE												1.058	1.168	1.183	1.208	1.201	1.276	1.29	1.273	1.276	1.214699	6.15	0.062	1	
AP9-1,4-DICHLOROBENZENE-D4																									



Method Name: C:\msdchem\1\methods\V830B21Q.M



Method Name: C:\msdchem\1\methods\V830B21Q.M



Method Name: C:\msdchem\1\methods\V830B21Q.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05A.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : RL VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:29 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	452516	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	719707	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	116513	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	307673	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.280	168	454305	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	719707	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	116513	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	307673	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	233212	41.4385786	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.60%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	404131	40.7301036	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.83%				
58) TOLUENE-D8	5.424	98	859257	40.1130457	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.28%				
76) 4-BROMOFLUOROBENZENE	7.297	95	324802	40.4512788	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.13%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4070577m	Below Cal			
4) PROPENE	1.634	41	6665	1.1493913	ppb		95
5) DICHLORODIFLUOROMETHANE	1.676	85	5399	0.8422160	ppb		96
6) CHLOROMETHANE	1.865	50	7998	0.9453040	ppb		97
7) VINYL CHLORIDE	1.913	62	6899	0.9635007	ppb	#	96
8) 1,3-BUTADIENE	1.920	39	6283	1.1178814	ppb		91
9) BROMOMETHANE	2.163	94	4780	1.9228198	ppb	#	79
10) CHLOROETHANE	2.254	64	4326	1.0726028	ppb	#	71
11) TRICHLOROFLUOROMETHANE	2.358	101	8298	0.9425097	ppb	#	92
12) DICHLOROFLUOROMETHANE	2.388	67	11243	0.9781257	ug/l		95
13) ETHYL ETHER	2.552	59	4240	0.9346745	ppb		90
14) ACROLEIN	2.899	56	2496	10.0393920	ppb	#	77
15) 1,1-DICHLOROETHENE	2.698	96	5685	1.0101186	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	4277	0.8171264	ppb	#	92
17) ACETONE	3.075	43	9488	4.3092912	ppb	#	86
18) IODOMETHANE	2.802	142	34418	4.6711073	ppb		97
19) CARBON DISULFIDE	2.735	76	19330	1.0658043	ppb		97
20) ALLYL CHLORIDE	2.984	76	16163	5.2746101	ppb		95
21) METHYLENE CHLORIDE	3.051	84	7462	1.2138737	ppb		97
22) METHYL ACETATE	3.130	43	23049	5.2757672	ppb	#	100
23) ACRYLONITRILE	3.526	53	11661	4.8321692	ppb		100
24) n-HEXANE	3.173	56	4584	1.0232319	ppb	#	83
25) TRANS-1,2-DICHLOROETHENE	3.142	96	6412	1.0992377	ppb		91
26) METHYL TERT-BUTYL ETHER	3.191	73	18076	1.0825992	ppb		86
27) 1,1-DICHLOROETHANE	3.501	63	10465	0.9562558	ppb		94
28) VINYL ACETATE	3.605	43	48398	5.1240944	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	16311	0.9548098	ppb		94
30) ETHYL TERT-BUTYL ETHER	3.599	59	16467	1.0343078	ppb		95
31) 2,2-DICHLOROPROPANE	3.860	77	10106	1.0243479	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.799	96	6507	0.9649732	ppb		95
33) 2-BUTANONE (MEK)	4.104	43	15616	5.4265583	ppb		90
34) BROMOCHLOROMETHANE	3.915	130	3353	1.0718683	ppb		97
35) TETRAHYDROFURAN	4.043	42	3088	1.5849519	ppb	#	86
36) CHLOROFORM	3.939	83	11257	1.0327253	ppb		99

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05A.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : RL VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:29 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	7750	0.9309572	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	9454	1.0156909	ppb		93
40) CARBON TETRACHLORIDE	4.037	117	8578	1.0041472	ppb		97
41) 1,1-DICHLOROPROPENE	4.134	75	8299	1.0219763	ppb		96
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	12789	0.9147880	ppb		97
43) n-Heptane	4.213	71	3319	0.8360065	ppb	#	61
44) BENZENE	4.280	78	21895	0.9590967	ppb	#	64
45) TERT-AMYL METHYL ETHER	4.310	73	17686	1.0494281	ppb	#	68
46) 1,2-DICHLOROETHANE	4.396	62	7368	0.9837736	ppb	#	93
47) T-AMYL ALCOHOL	4.389	59	3522	5.6969069	ppb	#	84
49) TRICHLOROETHENE	4.602	130	6109	0.9899746	ppb	#	98
50) METHYL CYCLOHEXANE	4.602	83	16913	0.9454561	ppb	#	75
51) 1,2-DICHLOROPROPANE	4.913	62	4198	1.0372073	ppb		90
52) DIBROMOMETHANE	4.858	93	3571	0.9547094	ppb		97
53) BROMODICHLOROMETHANE	4.937	83	7836	0.9599005	ppb	#	92
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	18971	5.0294307	ppb		99
56) CIS-1,3-DICHLOROPROPENE	5.314	75	8117	0.9516799	ppb		90
57) 4-METHYL-2-PENTANONE (...	5.673	43	26707	4.8467191	ppb		100
59) TOLUENE	5.460	91	23927	0.9728718	ppb		98
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	7619	0.9624431	ppb	#	96
62) 1,1,2-TRICHLOROETHANE	5.819	97	5230	1.0465761	ppb		94
63) TETRACHLOROETHENE	5.716	164	4452	0.9939902	ppb		92
64) 1,3-DICHLOROPROPANE	6.008	76	8238	1.0103477	ppb		90
65) 2-HEXANONE	6.215	58	10619	4.7167435	ppb		89
66) CHLORODIBROMOMETHANE	5.947	129	5130	0.9219998	ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	5163	0.9703868	ppb		100
68) CHLOROBENZENE	6.464	112	14523	1.0057005	ppb		97
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	5524	1.0973730	ppb	#	88
70) ETHYLBENZENE	6.458	106	8225	0.9666820	ppb		89
71) M&P-XYLENE	6.549	106	21027	2.0863476	ppb		95
72) O-XYLENE	6.859	106	10203	1.0182788	ppb		97
73) STYRENE	6.896	104	15502	1.0233318	ppb		97
74) BROMOFORM	6.938	173	3587	0.9781276	ppb		95
75) ISOPROPYLBENZENE	7.072	105	26021	0.9945643	ppb	#	95
77) BROMOBENZENE	7.389	77	10555	1.0127292	ppb		98
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	7452	1.0401816	ppb		96
79) 1,2,3-TRICHLOROPROPANE	7.547	110	2198	1.0624141	ppb		83
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	2149	1.0695782	ppb	#	89
81) N-PROPYLBENZENE	7.370	91	27709	0.9459531	ppb		99
82) 4-ETHYLTOLUENE	7.449	105	24253	1.0017569	ppb		99
83) 2-CHLOROTOLUENE	7.510	91	19203	1.0592701	ppb		98
84) 4-CHLOROTOLUENE	7.632	91	17909	1.0315301	ppb		94
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	20230	1.0090736	ppb		100
86) TERT-BUTYLBENZENE	7.760	119	17549	0.9917761	ppb		98
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	20326	1.0299557	ppb		97
88) SEC-BUTYLBENZENE	7.888	105	26345	0.9941396	ppb		97
89) 1,3-DICHLOROBENZENE	8.088	146	10552	1.0103363	ppb		95
90) P-ISOPROPYLTOLUENE	7.991	119	20518	0.9707322	ppb		98
91) DICYCLOPENTADIENE	8.003	66	21630	0.9881175	ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	9840	0.9990637	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	18381	0.9812634	ppb		96
95) 1,2-DICHLOROBENZENE	8.490	146	9482	0.9711810	ppb		99
96) N-BUTYLBENZENE	8.326	91	18458	0.9441066	ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	1802	1.1032320	ppb		95
98) 1,2,4-TRICHLOROBENZENE	9.676	180	5491	0.9431894	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05A.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : RL VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:29 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.627	225	2350	0.9451343	ppb		95
100)	NAPHTHALENE	9.944	128	18053	0.9179720	ppb		99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	5296	0.9387954	ppb		96
102)	1-METHYLNAPHTHALENE	10.759	142	6938	0.8470786	ppb	#	87
103)	2-METHYLNAPHTHALENE	10.875	142	6870	0.8976244	ppb		89
105)	ETHANOL	2.656	45	651	10.7204468	ppb	#	25
108)	ACETONITRILE	3.319	41	229	0.2570831	ppb	#	1
109)	TERT-BUTYL ALCOHOL	3.228	59	623	0.4867939	ppb	#	58
110)	CHLOROPRENE	3.526	53	11661	1.3210363	ppb	#	21
111)	PROPIONITRILE	4.316	54	176	0.1713113	ppb	#	25
113)	METHACRYLONITRILE	4.274	67	1854	0.7709002	ppb	#	1
115)	ISOBUTANOL	4.310	43	5005	18.4185879	ppb	#	75
117)	N-BUTANOL	4.706	56	161	1.1539311	ppb	#	12
118)	2-NITROPROPANE	5.606	43	236	0.1337842	ppb	#	63
120)	1,4-DIOXANE	4.961	88	5463	101.4453219	ppb	#	42
122)	3,3-DIMETHYL-1-BUTANOL	6.215	57	5108	10.1874739	ppb	#	48
126)	CYCLOHEXANONE	7.541	55	253	0.9972258	ppb	#	20
127)	PENTACHLOROETHANE	7.815	117	763	0.2518843	ppb	#	12

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

Quantitation Report (QT Reviewed)

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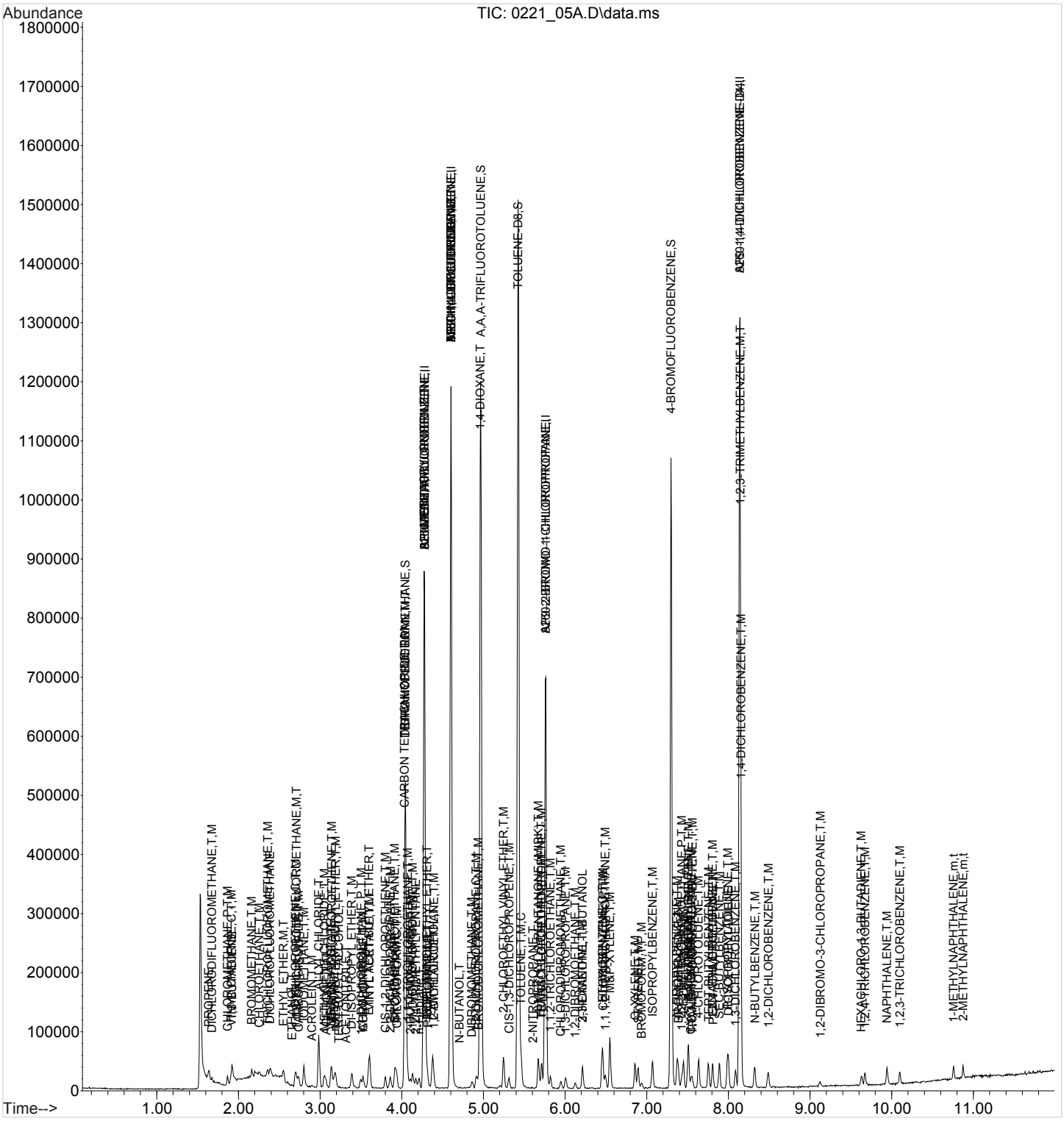


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06A.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : RL VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:44 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	458152	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	720589	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	117526	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	306954	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.274	168	459416	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	720589	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	117526	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	306954	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	239873	42.0978267	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.24%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	416132	41.8882832	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.72%				
58) TOLUENE-D8	5.424	98	881626	41.1069304	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.77%				
76) 4-BROMOFLUOROBENZENE	7.298	95	335626	41.4390306	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.60%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4007235m	Below Cal			
4) PROPENE	1.640	41	13856	2.3600977	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	13518	2.0827971	ppb		100
6) CHLOROMETHANE	1.865	50	17218	2.0100051	ppb		99
7) VINYL CHLORIDE	1.914	62	16044	2.2131095	ppb		98
8) 1,3-BUTADIENE	1.926	39	12874	2.2623850	ppb		93
9) BROMOMETHANE	2.163	94	7318	2.9075517	ppb		98
10) CHLOROETHANE	2.254	64	8614	2.1095103	ppb	#	86
11) TRICHLOROFLUOROMETHANE	2.358	101	18783	2.1071803	ppb	#	94
12) DICHLOROFLUOROMETHANE	2.388	67	24604	2.1141827	ug/l		91
13) ETHYL ETHER	2.552	59	9626	2.0958720	ppb		97
14) ACROLEIN	2.899	56	5641	16.4705916	ppb		90
15) 1,1-DICHLOROETHENE	2.698	96	12536	2.2000129	ppb		96
16) 1,1,2-TRICHLOROTRIFLUO...	2.717	101	11658	2.1998770	ppb		98
17) ACETONE	3.076	43	23405	10.4993923	ppb		99
18) IODOMETHANE	2.802	142	76521	10.2574452	ppb		99
19) CARBON DISULFIDE	2.735	76	40667	2.2146858	ppb		95
20) ALLYL CHLORIDE	2.984	76	34806	11.2188117	ppb		94
21) METHYLENE CHLORIDE	3.051	84	14543	2.3366659	ppb		95
22) METHYL ACETATE	3.130	43	46971	10.6190996	ppb	#	99
23) ACRYLONITRILE	3.526	53	26685	10.9218925	ppb		100
24) n-HEXANE	3.173	56	10307	2.2724070	ppb		82
25) TRANS-1,2-DICHLOROETHENE	3.143	96	13128	2.2229056	ppb		99
26) METHYL TERT-BUTYL ETHER	3.191	73	38063	2.2516077	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	23333	2.1058614	ppb		96
28) VINYL ACETATE	3.605	43	104272	10.9038976	ppb		98
29) DI-ISOPROPYL ETHER	3.386	45	36004	2.0816676	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.593	59	34841	2.1614753	ppb		97
31) 2,2-DICHLOROPROPANE	3.860	77	20792	2.0815593	ppb		96
32) CIS-1,2-DICHLOROETHENE	3.800	96	13937	2.0414000	ppb		98
33) 2-BUTANONE (MEK)	4.104	43	31433	10.7885943	ppb		92
34) BROMOCHLOROMETHANE	3.915	130	7684	2.4261608	ppb		99
35) TETRAHYDROFURAN	4.043	42	4313	2.1864654	ppb	#	84
36) CHLOROFORM	3.939	83	24595	2.2286061	ppb		99

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06A.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : RL VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:44 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	18626	2.2098968	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.067	97	20298	2.1538902	ppb		99
40) CARBON TETRACHLORIDE	4.031	117	18830	2.1771384	ppb		98
41) 1,1-DICHLOROPROPENE	4.134	75	18541	2.2551351	ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	30862	2.1803806	ppb		96
43) n-Heptane	4.213	71	7619	1.8955041	ppb		94
44) BENZENE	4.280	78	49637	2.1475700	ppb	#	85
45) TERT-AMYL METHYL ETHER	4.305	73	35941	2.1063842	ppb	#	91
46) 1,2-DICHLOROETHANE	4.390	62	16699	2.2022184	ppb		99
47) T-AMYL ALCOHOL	4.396	59	7076	11.3047757	ppb		95
49) TRICHLOROETHENE	4.603	130	12652	2.0477701	ppb	#	98
50) METHYL CYCLOHEXANE	4.603	83	27794	2.1478088	ppb	#	88
51) 1,2-DICHLOROPROPANE	4.913	62	8718	2.1513353	ppb		98
52) DIBROMOMETHANE	4.858	93	7660	2.0453998	ppb		97
53) BROMODICHLOROMETHANE	4.937	83	17824	2.1807459	ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	40723	10.7829221	ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	17711	2.0739893	ppb		91
57) 4-METHYL-2-PENTANONE (...	5.673	43	59303	10.7489863	ppb		100
59) TOLUENE	5.460	91	53379	2.1677335	ppb		99
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	17938	2.2631807	ppb		98
62) 1,1,2-TRICHLOROETHANE	5.819	97	10428	2.0687622	ppb		94
63) TETRACHLOROETHENE	5.716	164	10709	2.3703709	ppb		97
64) 1,3-DICHLOROPROPANE	6.008	76	17856	2.1710693	ppb		99
65) 2-HEXANONE	6.215	58	24173	10.6446067	ppb		98
66) CHLORODIBROMOMETHANE	5.953	129	11232	2.0012943	ppb		96
67) 1,2-DIBROMOETHANE	6.123	107	11567	2.1552810	ppb		100
68) CHLOROBENZENE	6.458	112	33568	2.3045081	ppb		95
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	10855	2.1378187	ppb	#	92
70) ETHYLBENZENE	6.452	106	19866	2.3147207	ppb		98
71) M&P-XYLENE	6.549	106	46534	4.5774137	ppb		99
72) O-XYLENE	6.854	106	21566	2.1337761	ppb		90
73) STYRENE	6.890	104	33503	2.1925669	ppb		98
74) BROMOFORM	6.939	173	7700	2.0815904	ppb		97
75) ISOPROPYLBENZENE	7.073	105	57863	2.1925539	ppb		98
77) BROMOBENZENE	7.389	77	22884	2.1767445	ppb		96
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	15364	2.1260871	ppb		97
79) 1,2,3-TRICHLOROPROPANE	7.547	110	4474	2.1438903	ppb		95
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	4512	2.2263101	ppb		92
81) N-PROPYLBENZENE	7.371	91	62996	2.1320735	ppb		99
82) 4-ETHYLTOLUENE	7.450	105	53463	2.1892262	ppb		100
83) 2-CHLOROTOLUENE	7.511	91	40768	2.2294487	ppb		99
84) 4-CHLOROTOLUENE	7.632	91	36378	2.0772551	ppb		97
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	45349	2.2425136	ppb		99
86) TERT-BUTYLBENZENE	7.754	119	37283	2.0888755	ppb		97
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	42950	2.1575964	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	56506	2.1138986	ppb		99
89) 1,3-DICHLOROBENZENE	8.088	146	23079	2.1907287	ppb		96
90) P-ISOPROPYLTOLUENE	7.991	119	46010	2.1580279	ppb		99
91) DICYCLOPENTADIENE	8.003	66	49147	2.2258173	ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	20926	2.1296116	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	41751	2.2340836	ppb		99
95) 1,2-DICHLOROBENZENE	8.490	146	21040	2.1600412	ppb		94
96) N-BUTYLBENZENE	8.320	91	41055	2.1048374	ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	3075	1.8870059	ppb		88
98) 1,2,4-TRICHLOROBENZENE	9.670	180	11981	2.0627975	ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06A.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : RL VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

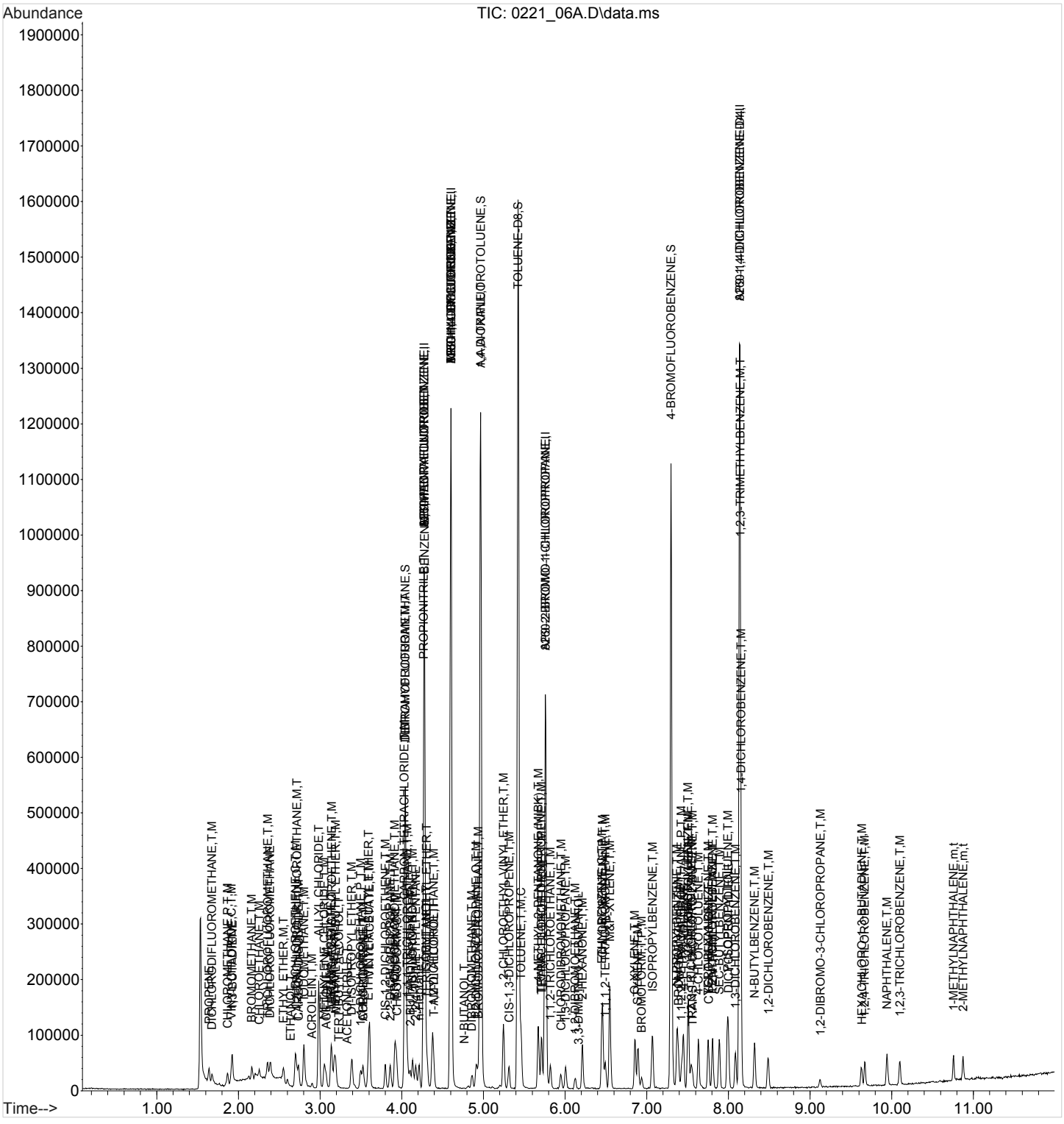
Quant Time: Feb 22 15:07:44 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	5202	2.0970661	ppb		94
100)	NAPHTHALENE	9.944	128	39361	2.0061447	ppb		99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	11670	2.0735282	ppb		97
102)	1-METHYLNAPHTHALENE	10.759	142	16996	2.0799468	ppb		95
103)	2-METHYLNAPHTHALENE	10.875	142	15454	2.0239273	ppb		97
105)	ETHANOL	2.638	45	1058	17.2289561	ppb	#	60
108)	ACETONITRILE	3.331	41	219	0.2431217	ppb	#	33
109)	TERT-BUTYL ALCOHOL	3.228	59	1601	1.2370572	ppb	#	58
110)	CHLOROPRENE	3.526	53	26685	2.9894243	ppb	#	21
111)	PROPIONITRILE	4.268	54	158	0.1520799	ppb	#	1
113)	METHACRYLONITRILE	4.274	67	1874	0.7705475	ppb	#	1
115)	ISOBUTANOL	4.298	43	10867	39.5460687	ppb	#	75
117)	N-BUTANOL	4.767	56	195	1.3959077	ppb	#	20
120)	1,4-DIOXANE	4.968	88	5533	102.6194288	ppb	#	42
122)	3,3-DIMETHYL-1-BUTANOL	6.166	57	221	0.4402263	ppb	#	13
126)	CYCLOHEXANONE	7.760	55	515	2.0124293	ppb		87
127)	PENTACHLOROETHANE	7.809	117	1485	0.4860080	ppb	#	12

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

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06A.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : RL VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:07:44 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07A.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : RL VMS 5.0 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:00 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	435361	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	695462	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.765	79	111509	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	301617	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.274	168	435915	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	695462	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.765	79	111509	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	301617	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	231687	42.7897787	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 106.97%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	409228	42.6816315	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.70%				
58) TOLUENE-D8	5.424	98	861926	41.6403971	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.10%				
76) 4-BROMOFLUOROBENZENE	7.298	95	333120	43.3489649	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.37%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3261986m	Below Cal			
4) PROPENE	1.640	41	25051	4.4903195	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	27670	4.4864593	ppb		99
6) CHLOROMETHANE	1.865	50	33848	4.1582206	ppb		100
7) VINYL CHLORIDE	1.914	62	32994	4.7894461	ppb		99
8) 1,3-BUTADIENE	1.926	39	25563	4.7274277	ppb		92
9) BROMOMETHANE	2.163	94	13639	5.7026621	ppb		97
10) CHLOROETHANE	2.254	64	19206	4.9496418	ppb		96
11) TRICHLOROFLUOROMETHANE	2.352	101	39694	4.6862091	ppb		97
12) DICHLOROFLUOROMETHANE	2.388	67	54274	4.9078207	ug/l		100
13) ETHYL ETHER	2.552	59	20483	4.6932375	ppb		99
14) ACROLEIN	2.905	56	6118	18.1066993	ppb		94
15) 1,1-DICHLOROETHENE	2.698	96	25793	4.7635218	ppb		98
16) 1,1,2-TRICHLOROTRIFLUO...	2.711	101	22771	4.5218538	ppb		98
17) ACETONE	3.069	43	47284	22.3218297	ppb		98
18) IODOMETHANE	2.802	142	180059	25.3999855	ppb		99
19) CARBON DISULFIDE	2.735	76	83002	4.7568406	ppb		100
20) ALLYL CHLORIDE	2.984	76	74893	25.4035281	ppb		97
21) METHYLENE CHLORIDE	3.051	84	27205	4.5999320	ppb		96
22) METHYL ACETATE	3.130	43	104796	24.9323181	ppb	#	99
23) ACRYLONITRILE	3.526	53	57615	24.8156880	ppb		96
24) n-HEXANE	3.173	56	19187	4.4516496	ppb		92
25) TRANS-1,2-DICHLOROETHENE	3.142	96	26817	4.7785124	ppb		98
26) METHYL TERT-BUTYL ETHER	3.191	73	74980	4.6676170	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	50080	4.7564570	ppb		99
28) VINYL ACETATE	3.605	43	228520	25.1477040	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	77226	4.6987706	ppb		100
30) ETHYL TERT-BUTYL ETHER	3.593	59	74692	4.8763383	ppb		95
31) 2,2-DICHLOROPROPANE	3.860	77	46766	4.9270029	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.800	96	29139	4.4915218	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	74072	26.7542736	ppb		90
34) BROMOCHLOROMETHANE	3.915	130	15950	5.2997206	ppb		96
35) TETRAHYDROFURAN	4.043	42	10978	5.8566119	ppb	#	85
36) CHLOROFORM	3.939	83	49362	4.7069470	ppb		99

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07A.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : RL VMS 5.0 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:00 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	37996	4.7440617 ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	43094	4.8122390 ppb		99
40) CARBON TETRACHLORIDE	4.031	117	38628	4.7000015 ppb		96
41) 1,1-DICHLOROPROPENE	4.134	75	36974	4.7325576 ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	62761	4.6661442 ppb		97
43) n-Heptane	4.213	71	18683	4.8914029 ppb		92
44) BENZENE	4.274	78	103912	4.7311593 ppb		94
45) TERT-AMYL METHYL ETHER	4.304	73	73506	4.5334652 ppb	#	94
46) 1,2-DICHLOROETHANE	4.390	62	34311	4.7617146 ppb		95
47) T-AMYL ALCOHOL	4.396	59	15479	26.0241821 ppb		93
49) TRICHLOROETHENE	4.603	130	28069	4.7072057 ppb	#	99
50) METHYL CYCLOHEXANE	4.603	83	48230	4.6032201 ppb		92
51) 1,2-DICHLOROPROPANE	4.913	62	18027	4.6092357 ppb		100
52) DIBROMOMETHANE	4.864	93	17372	4.8063290 ppb		94
53) BROMODICHLOROMETHANE	4.937	83	34367	4.3566807 ppb		94
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	88631	24.3162487 ppb		97
56) CIS-1,3-DICHLOROPROPENE	5.314	75	38693	4.6947239 ppb		98
57) 4-METHYL-2-PENTANONE (...	5.673	43	130708	24.5474983 ppb		99
59) TOLUENE	5.460	91	110140	4.6344132 ppb		98
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	35694	4.6661065 ppb		99
62) 1,1,2-TRICHLOROETHANE	5.825	97	22178	4.6372014 ppb		96
63) TETRACHLOROETHENE	5.716	164	21922	5.1141281 ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	38034	4.8740002 ppb		96
65) 2-HEXANONE	6.215	58	55837	25.9146400 ppb		99
66) CHLORODIBROMOMETHANE	5.953	129	25225	4.7370621 ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	23969	4.7071401 ppb		97
68) CHLOROBENZENE	6.458	112	69440	5.0244268 ppb		97
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	22993	4.7726624 ppb	#	100
70) ETHYLBENZENE	6.452	106	41613	5.1102391 ppb		99
71) M&P-XYLENE	6.549	106	96947	10.0509749 ppb		99
72) O-XYLENE	6.860	106	46413	4.8399729 ppb		98
73) STYRENE	6.896	104	72017	4.9673894 ppb		100
74) BROMOFORM	6.939	173	16374	4.6653407 ppb		98
75) ISOPROPYLBENZENE	7.072	105	123138	4.9177388 ppb		97
77) BROMOBENZENE	7.389	77	47765	4.7886085 ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	32190	4.6948505 ppb		98
79) 1,2,3-TRICHLOROPROPANE	7.547	110	9098	4.5949051 ppb		86
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	9594	4.9893080 ppb		93
81) N-PROPYLBENZENE	7.371	91	135287	4.8257997 ppb		100
82) 4-ETHYLTOLUENE	7.450	105	116186	5.0143559 ppb		100
83) 2-CHLOROTOLUENE	7.510	91	86852	5.0058972 ppb		97
84) 4-CHLOROTOLUENE	7.632	91	80294	4.8323473 ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	95864	4.9962822 ppb		100
86) TERT-BUTYLBENZENE	7.754	119	82687	4.8827330 ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	93406	4.9454503 ppb		99
88) SEC-BUTYLBENZENE	7.888	105	122195	4.8180028 ppb		98
89) 1,3-DICHLOROBENZENE	8.088	146	49436	4.9458276 ppb		98
90) P-ISOPROPYLTOLUENE	7.991	119	99418	4.9146646 ppb		99
91) DICYCLOPENTADIENE	8.003	66	106592	5.0879302 ppb		98
93) 1,4-DICHLOROBENZENE	8.155	146	45356	4.6974960 ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	85640	4.6636578 ppb		97
95) 1,2-DICHLOROBENZENE	8.484	146	45653	4.7698322 ppb		98
96) N-BUTYLBENZENE	8.320	91	87842	4.5832357 ppb		98
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	7604	4.7488421 ppb		98
98) 1,2,4-TRICHLOROBENZENE	9.676	180	27073	4.7437020 ppb		98

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07A.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : RL VMS 5.0 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:00 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

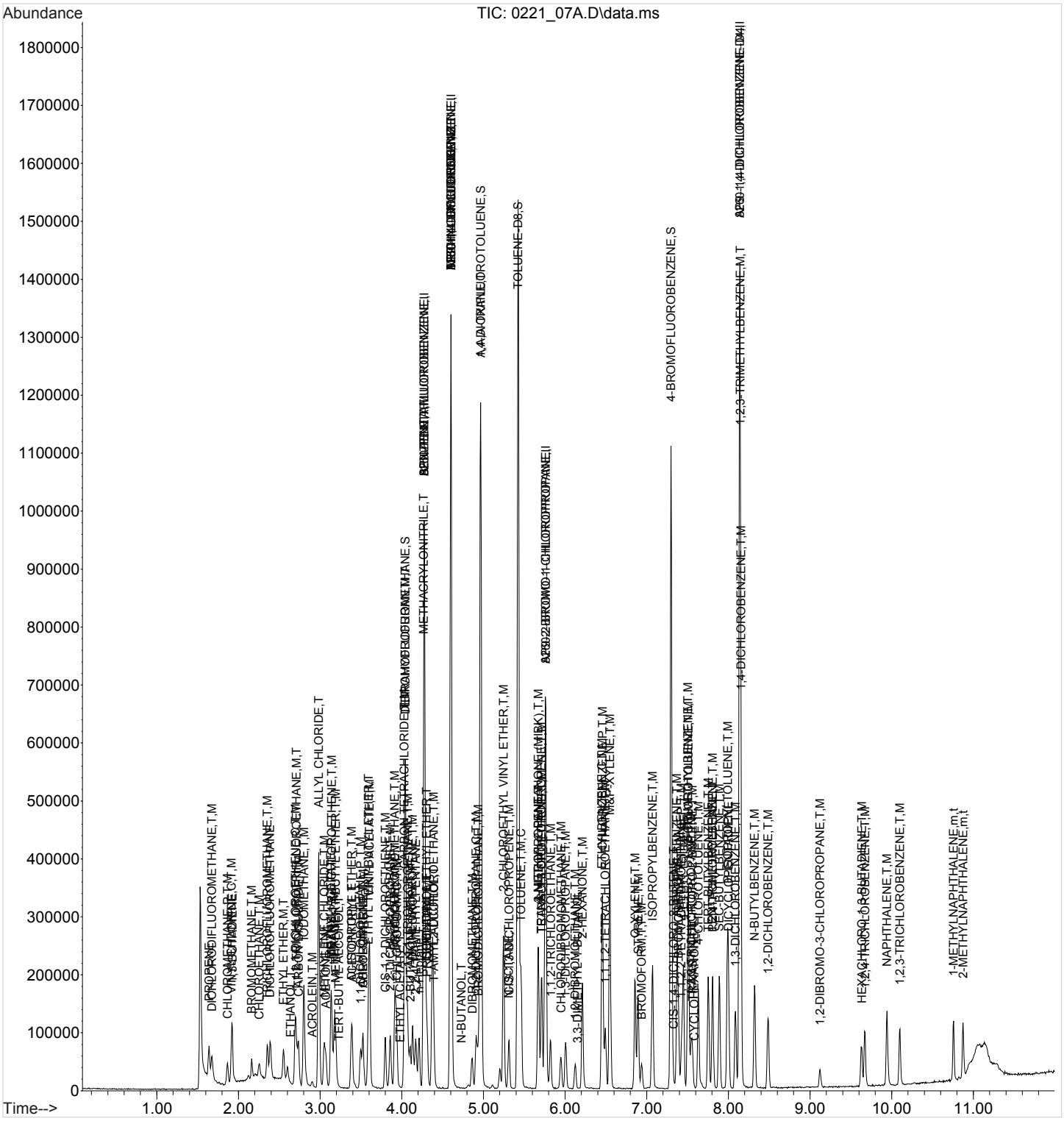
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	11419	4.6847597	ppb		98
100)	NAPHTHALENE	9.944	128	90704	4.7047879	ppb		100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	26463	4.7851510	ppb		100
102)	1-METHYLNAPHTHALENE	10.759	142	39246	4.8878558	ppb		99
103)	2-METHYLNAPHTHALENE	10.875	142	35505	4.7321772	ppb		95
105)	ETHANOL	2.638	45	2159	37.0535857	ppb	#	80
108)	ACETONITRILE	3.392	41	16203	18.9574214	ppb	#	40
109)	TERT-BUTYL ALCOHOL	3.228	59	2921	2.3786707	ppb	#	58
110)	CHLOROPRENE	3.526	53	57615	6.8023696	ppb	#	21
111)	PROPIONITRILE	4.311	54	432	0.4382307	ppb	#	1
112)	ETHYL ACETATE	3.982	43	1185	0.1935242	ppb	#	82
113)	METHACRYLONITRILE	4.268	67	1752	0.7592210	ppb	#	1
115)	ISOBUTANOL	4.304	43	23396	89.7303919	ppb	#	75
117)	N-BUTANOL	4.730	56	180	1.3350847	ppb	#	1
118)	2-NITROPROPANE	5.673	43	130627	76.6316334	ppb	#	39
120)	1,4-DIOXANE	4.968	88	5338	102.5797686	ppb	#	46
121)	N-OCTANE	5.308	85	614	0.1708384	ppb	#	33
122)	3,3-DIMETHYL-1-BUTANOL	6.154	57	224	0.4623235	ppb	#	58
125)	CIS-1,4-DICHLORO-2-BUTENE	7.328	53	488	0.2316609	ppb	#	8
126)	CYCLOHEXANONE	7.583	55	173	0.7124978	ppb	#	20
127)	PENTACHLOROETHANE	7.809	117	3400	1.1727890	ppb	#	12

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07A.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : RL VMS 5.0 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:00 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_18A.D
Acq On : 21 Feb 2017 8:16 pm
Operator : 605
Sample : RL VMS 1a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:15 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	451856	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	718946	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	117459	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	313245	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.274	168	453585	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	718946	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	117459	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	313245	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	234146	41.6653069	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.16%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	402035	40.5617484	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.40%				
58) TOLUENE-D8	5.424	98	849403	39.6949999	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.24%				
76) 4-BROMOFLUOROBENZENE	7.297	95	324804	40.1257364	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.31%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3569214m	Below Cal			
4) PROPENE	1.634	41	2149	0.3711403	ppb	#	82
6) CHLOROMETHANE	1.871	50	1174	0.1389607	ppb	#	66
8) 1,3-BUTADIENE	1.926	39	1730	0.3082539	ppb		85
9) BROMOMETHANE	2.163	94	1137	0.4580417	ppb	#	65
14) ACROLEIN	2.899	56	162	5.1148670	ppb	#	15
17) ACETONE	3.075	43	1351	0.6144979	ppb		90
18) IODOMETHANE	2.808	142	6342	0.8619743	ppb	#	95
19) CARBON DISULFIDE	2.735	76	3253	0.1796237	ppb	#	97
20) ALLYL CHLORIDE	2.984	76	14395	4.7045051	ppb		97
21) METHYLENE CHLORIDE	3.051	84	1122	0.1827869	ppb		93
22) METHYL ACETATE	3.130	43	93451	21.4215738	ppb	#	97
23) ACRYLONITRILE	3.483	53	41608	17.2670069	ppb	#	52
28) VINYL ACETATE	3.605	43	3976	0.4215703	ppb	#	73
30) ETHYL TERT-BUTYL ETHER	3.593	59	13537	0.8515137	ppb		93
33) 2-BUTANONE (MEK)	4.097	43	896	0.3118147	ppb	#	44
35) TETRAHYDROFURAN	4.049	42	635	0.3263972	ppb	#	65
37) CYCLOHEXANE	3.921	84	7189	0.8648293	ppb		96
42) 2,2,4-TRIMETHYLPENTANE	4.183	57	21400	1.5329626	ppb	#	12
45) TERT-AMYL METHYL ETHER	4.310	73	13154	0.7816544	ppb	#	48
47) T-AMYL ALCOHOL	4.396	59	2361	3.8245439	ppb	#	41
50) METHYL CYCLOHEXANE	4.602	83	15703	0.8131739	ppb	#	74
51) 1,2-DICHLOROPROPANE	4.967	62	7171	1.7736271	ppb	#	38
57) 4-METHYL-2-PENTANONE (...	5.679	43	1497	0.2719594	ppb	#	35
63) TETRACHLOROETHENE	5.716	164	745	0.1649952	ppb	#	79
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	687	0.3391728	ppb	#	31
86) TERT-BUTYLBENZENE	7.790	119	14418	0.8082661	ppb	#	32
99) HEXACHLORO-1,3-BUTADIENE	9.621	225	773	0.3053588	ppb		94
102) 1-METHYLNAPHTHALENE	10.759	142	1180	0.1415066	ppb	#	83
103) 2-METHYLNAPHTHALENE	10.875	142	1272	0.1632414	ppb	#	70
105) ETHANOL	2.644	45	6427	106.0056538	ppb	#	86
106) BROMOETHANE	2.869	108	2827	0.7186777	ppb		99
107) 2-PROPANOL	2.972	45	1780	5.0750463	ppb	#	84
108) ACETONITRILE	3.349	41	41268	46.4023936	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_18A.D
Acq On : 21 Feb 2017 8:16 pm
Operator : 605
Sample : RL VMS 1a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:15 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

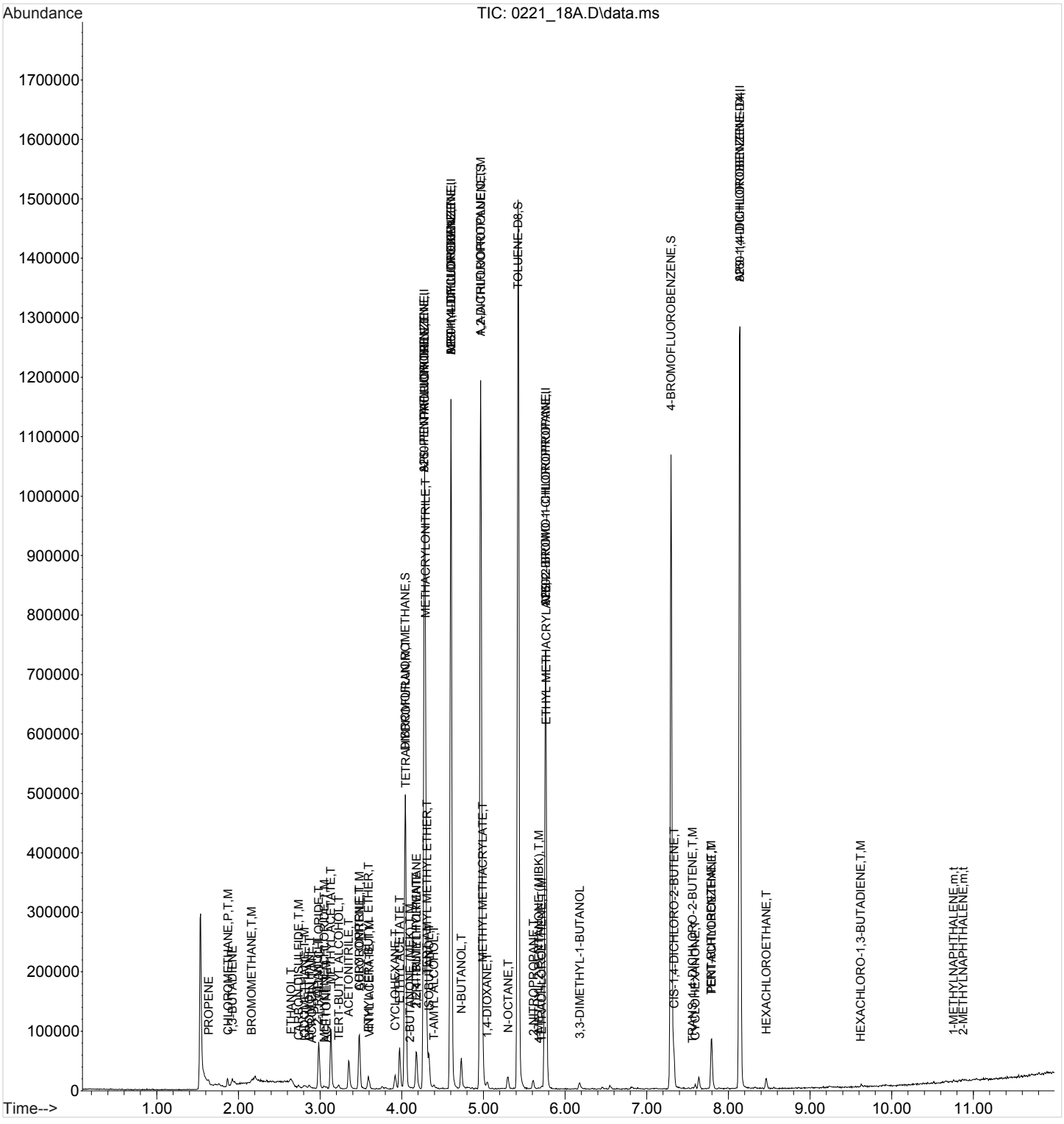
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
109) TERT-BUTYL ALCOHOL	3.228	59	6344	4.9648836	ppb	#	90
110) CHLOROPRENE	3.483	53	41608	4.7211155	ppb		99
111) PROPIONITRILE	4.280	54	48601	47.3813470	ppb	#	82
112) ETHYL ACETATE	3.976	43	58669	9.2080731	ppb		98
113) METHACRYLONITRILE	4.292	67	118681	49.4263392	ppb		98
114) TERT-BUTYL FORMATE	4.177	59	28007	9.2184156	ppb		95
115) ISOBUTANOL	4.335	43	25394	93.5992129	ppb	#	95
117) N-BUTANOL	4.730	56	24357	174.7580726	ppb		95
118) 2-NITROPROPANE	5.612	43	8435	4.7867126	ppb	#	94
119) METHYL METHACRYLATE	4.992	41	25384	4.7719846	ppb	#	20
120) 1,4-DIOXANE	5.047	88	4809	89.3953762	ppb	#	95
121) N-OCTANE	5.302	85	3515	0.9460619	ppb		88
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	4969	9.9207401	ppb		98
124) ETHYL METHACRYLATE	5.770	69	31889	4.9123738	ppb	#	1
125) CIS-1,4-DICHLORO-2-BUTENE	7.334	53	10295	4.6396259	ppb	#	29
126) CYCLOHEXANONE	7.596	55	2590	10.1265340	ppb	#	85
127) PENTACHLOROETHANE	7.796	117	14443	4.7295739	ppb		97
128) HEXACHLOROETHANE	8.465	117	3106	0.8707759	ppb		91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_18A.D
Acq On : 21 Feb 2017 8:16 pm
Operator : 605
Sample : RL VMS 1a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:08:15 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_15.D
Acq On : 21 Feb 2017 7:08 pm
Operator : 605
Sample : SSCV VMS 25 ppb 17B21486
Misc : IS/SURR 16L30078
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:05:49 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	421332	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	678242	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	109621	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	290494	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.274	168	422210	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	678242	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	109621	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	290494	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	235015	44.8496474	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.12%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	418038	44.7074765	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.77%				
58) TOLUENE-D8	5.424	98	893758	44.2744881	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 110.69%				
76) 4-BROMOFLUOROBENZENE	7.297	95	343241	45.4352942	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 113.59%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-284618m	0.1505911	ppm		
4) PROPENE	1.640	41	129831	24.0467093	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	170874	28.6283054	ppb		99
6) CHLOROMETHANE	1.865	50	172969	21.9567404	ppb		99
7) VINYL CHLORIDE	1.913	62	177864	26.6786256	ppb		99
8) 1,3-BUTADIENE	1.926	39	115414	22.0544710	ppb		95
9) BROMOMETHANE	2.163	94	53709	23.2042350	ppb		99
10) CHLOROETHANE	2.254	64	99499	26.4960197	ppb		99
11) TRICHLOROFLUOROMETHANE	2.358	101	219301	26.7523840	ppb		99
12) DICHLOROFLUOROMETHANE	2.388	67	279210	26.0887278	ug/l		100
13) ETHYL ETHER	2.552	59	104696	24.7875801	ppb		98
14) ACROLEIN	2.905	56	145674	276.6987768	ppb		99
15) 1,1-DICHLOROETHENE	2.698	96	132545	25.2938378	ppb		98
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	134978	27.6963459	ppb		97
17) ACETONE	3.075	43	239610	116.8814518	ppb		99
18) IODOMETHANE	2.802	142	1121292	163.4415359	ppb		99
19) CARBON DISULFIDE	2.735	76	417000	24.6939848	ppb		100
20) ALLYL CHLORIDE	2.984	76	339088	118.8475701	ppb		96
21) METHYLENE CHLORIDE	3.051	84	131692	23.0084389	ppb		99
22) METHYL ACETATE	3.130	43	510965	125.6128829	ppb	#	100
23) ACRYLONITRILE	3.526	53	281687	125.3668273	ppb		99
24) n-HEXANE	3.173	56	98028	23.5011502	ppb		100
25) TRANS-1,2-DICHLOROETHENE	3.142	96	139441	25.6742690	ppb		98
26) METHYL TERT-BUTYL ETHER	3.191	73	365699	23.5233204	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	256281	25.1513179	ppb		99
28) VINYL ACETATE	3.605	43	1115021	126.7891963	ppb		100
29) DI-ISOPROPYL ETHER	3.386	45	384280	24.1598126	ppb		98
30) ETHYL TERT-BUTYL ETHER	3.593	59	384261	25.9221560	ppb		98
31) 2,2-DICHLOROPROPANE	3.860	77	224357	24.4240283	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	153758	24.4895988	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	352970	131.7352395	ppb		100
34) BROMOCHLOROMETHANE	3.915	130	57315	19.6782130	ppb		95
35) TETRAHYDROFURAN	4.043	42	40562	22.3597866	ppb		99
36) CHLOROFORM	3.939	83	250836	24.7150506	ppb		100

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_15.D
Acq On : 21 Feb 2017 7:08 pm
Operator : 605
Sample : SSCV VMS 25 ppb 17B21486
Misc : IS/SURR 16L30078
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:05:49 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) CYCLOHEXANE	3.921	84	209910	27.0813716	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	225761	26.0497990	ppb		99
40) CARBON TETRACHLORIDE	4.037	117	199618	25.0969272	ppb		99
41) 1,1-DICHLOROPROPENE	4.134	75	200641	26.5365359	ppb		99
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	350318	26.9126110	ppb		98
43) n-Heptane	4.213	71	95842	25.9279255	ppb		98
44) BENZENE	4.274	78	528552	24.8665003	ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	366144	23.3337476	ppb		99
46) 1,2-DICHLOROETHANE	4.389	62	186626	26.7625325	ppb		99
47) T-AMYL ALCOHOL	4.396	59	54206	94.1687114	ppb	#	83
49) TRICHLOROETHENE	4.602	130	152071	26.1499802	ppb	#	99
50) METHYL CYCLOHEXANE	4.602	83	237823	27.0442786	ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	94287	24.7198595	ppb		99
52) DIBROMOMETHANE	4.858	93	88984	25.2443575	ppb		99
53) BROMODICHLOROMETHANE	4.937	83	186788	24.2801745	ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	467261	131.4495750	ppb		100
56) CIS-1,3-DICHLOROPROPENE	5.314	75	219664	27.3290960	ppb		100
57) 4-METHYL-2-PENTANONE (...	5.673	43	749453	144.3238803	ppb		99
59) TOLUENE	5.460	91	577537	24.9182890	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	191634	25.6874337	ppb		100
62) 1,1,2-TRICHLOROETHANE	5.819	97	120321	25.5912310	ppb		99
63) TETRACHLOROETHENE	5.716	164	112806	26.7694709	ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	203488	26.5258009	ppb		98
65) 2-HEXANONE	6.215	58	301139	142.1694453	ppb		98
66) CHLORODIBROMOMETHANE	5.947	129	143295	27.3731707	ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	134361	26.8408705	ppb		97
68) CHLOROBENZENE	6.458	112	370472	27.2676911	ppb		99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	117866	24.8868414	ppb	#	100
70) ETHYLBENZENE	6.452	106	212861	26.5903745	ppb		99
71) M&P-XYLENE	6.549	106	494154	52.1137460	ppb		100
72) O-XYLENE	6.859	106	254076	26.9515093	ppb		99
73) STYRENE	6.890	104	398164	27.9364576	ppb		99
74) BROMOFORM	6.939	173	92211	26.7256006	ppb		100
75) ISOPROPYLBENZENE	7.072	105	646944	26.2818670	ppb		100
77) BROMOBENZENE	7.389	77	245862	25.0730475	ppb		100
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	159940	23.7287051	ppb		99
79) 1,2,3-TRICHLOROPROPANE	7.547	110	49156	25.2536008	ppb		96
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	50532	26.7314953	ppb		98
81) N-PROPYLBENZENE	7.370	91	721155	26.1672452	ppb		99
82) 4-ETHYLTOLUENE	7.450	105	598954	26.2948672	ppb		100
83) 2-CHLOROTOLUENE	7.510	91	438718	25.7219399	ppb		100
84) 4-CHLOROTOLUENE	7.632	91	430103	26.3307772	ppb		100
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	486937	25.8154887	ppb		100
86) TERT-BUTYLBENZENE	7.754	119	434036	26.0715984	ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	490165	26.3991248	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	633330	25.4015278	ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	257364	26.1914543	ppb		99
90) P-ISOPROPYLTOLUENE	7.991	119	527163	26.5087923	ppb		99
91) DICYCLOPENTADIENE	8.003	66	524798	25.4814926	ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	243064	26.1379163	ppb		94
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	457353	25.8595046	ppb		100
95) 1,2-DICHLOROBENZENE	8.490	146	249266	27.0405470	ppb		99
96) N-BUTYLBENZENE	8.319	91	461255	24.9878972	ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	39560	25.6519602	ppb		94
98) 1,2,4-TRICHLOROBENZENE	9.670	180	149623	27.2206207	ppb		98

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_15.D
Acq On : 21 Feb 2017 7:08 pm
Operator : 605
Sample : SSCV VMS 25 ppb 17B21486
Misc : IS/SURR 16L30078
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:05:49 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

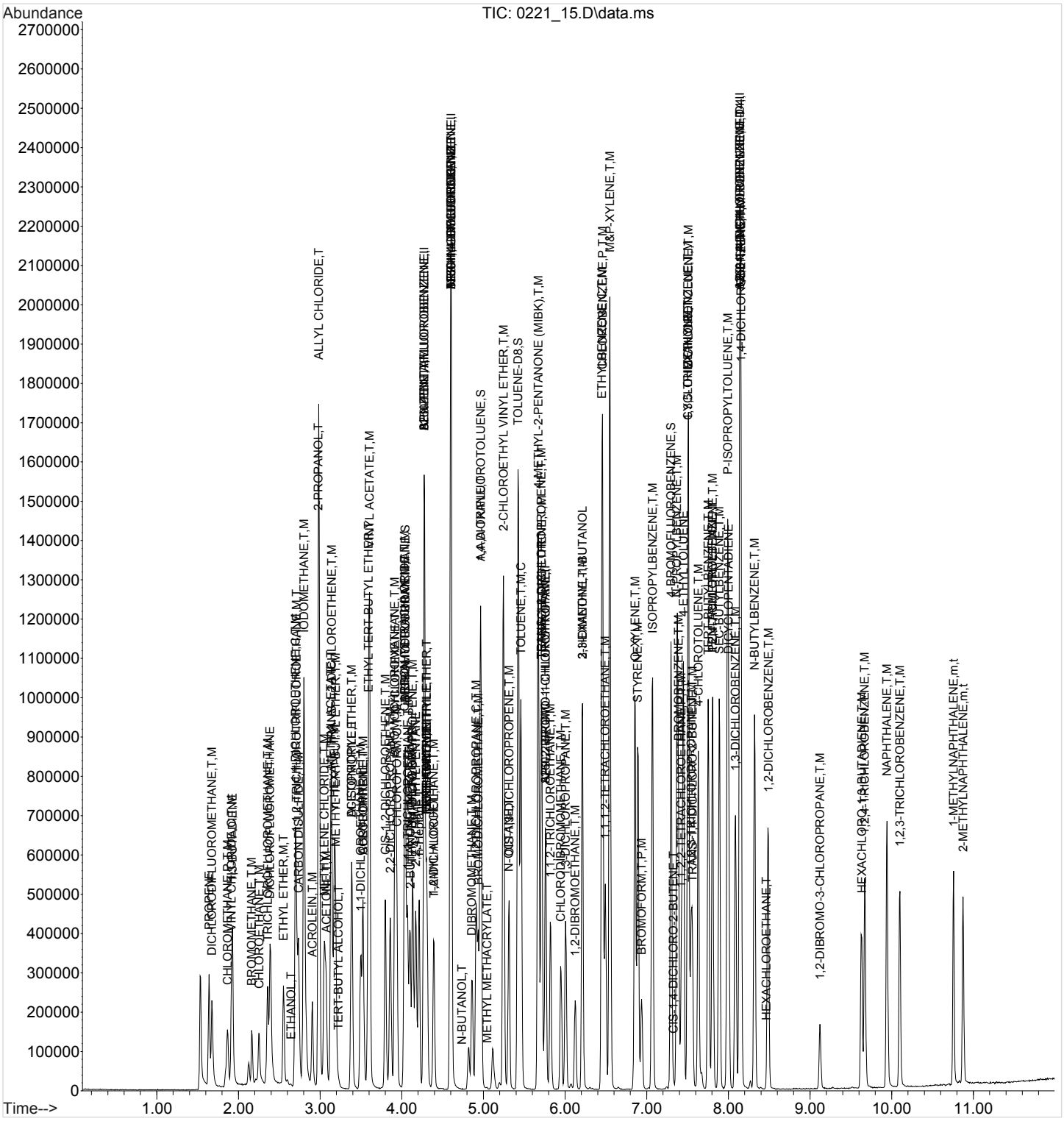
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	66715	28.4185155	ppb		96
100)	NAPHTHALENE	9.944	128	492476	26.5226756	ppb		100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	139172	26.1292586	ppb		98
102)	1-METHYLNAPHTHALENE	10.759	142	206897	26.7544379	ppb		98
103)	2-METHYLNAPHTHALENE	10.875	142	179754	24.8753209	ppb		99
105)	ETHANOL	2.644	45	7734	137.0424346	ppb	#	91
106)	BROMOETHANE	2.899	108	778	Below Cal		97	
107)	2-PROPANOL	2.978	45	270	0.8270160	ppb	#	1
108)	ACETONITRILE	3.386	41	68111	82.2762307	ppb	#	34
109)	TERT-BUTYL ALCOHOL	3.221	59	13885	11.6740608	ppb	#	58
110)	CHLOROPRENE	3.526	53	281687	34.3371908	ppb	#	21
111)	PROPIONITRILE	4.304	54	1871	1.9595942	ppb	#	1
113)	METHACRYLONITRILE	4.304	67	769	0.3440597	ppb	#	1
114)	TERT-BUTYL FORMATE	4.128	59	1248	0.4413005	ppb	#	14
115)	ISOBUTANOL	4.304	43	115272	456.4519622	ppb	#	75
117)	N-BUTANOL	4.736	56	280	2.1295266	ppb	#	21
119)	METHYL METHACRYLATE	5.047	41	1167	0.2325527	ppb	#	22
120)	1,4-DIOXANE	4.967	88	5768	113.6572445	ppb	#	37
121)	N-OCTANE	5.308	85	3113	0.8881472	ppb	#	35
122)	3,3-DIMETHYL-1-BUTANOL	6.215	57	103442	218.9190613	ppb	#	35
125)	CIS-1,4-DICHLORO-2-BUTENE	7.328	53	1273	0.6147203	ppb	#	8
126)	CYCLOHEXANONE	7.504	55	1388	5.8149109	ppb		92
127)	PENTACHLOROETHANE	7.808	117	17205	6.0368700	ppb	#	12
128)	HEXACHLOROETHANE	8.465	117	909	0.2730621	ppb	#	31

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_15.D
Acq On : 21 Feb 2017 7:08 pm
Operator : 605
Sample : SSCV VMS 25 ppb 17B21486
Misc : IS/SURR 16L30078
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 15:05:49 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_28.D
Acq On : 22 Feb 2017 12:01 am
Operator : 605
Sample : SSCV VMS 10a ppb 17B19365
Misc : IS/SURR 16L30078
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 14:01:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	411312	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	684015	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	112030	40.0000000	ppb	#	0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	303216	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	4.274	168	412134	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	684015	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	112030	40.0000000	ppb		0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	303216	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	215445	42.1165642	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.29%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	388372	41.1842690	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.96%				
58) TOLUENE-D8	5.424	98	823747	40.4619218	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.15%				
76) 4-BROMOFLUOROBENZENE	7.297	95	316889	41.0450485	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.61%				
Target Compounds							Qvalue
4) PROPENE	1.634	41	2413	0.4578125	ppb	#	79
6) CHLOROMETHANE	1.865	50	3072	0.3994605	ppb	#	81
8) 1,3-BUTADIENE	1.926	39	4732	0.9262665	ppb		99
9) BROMOMETHANE	2.163	94	883	0.3907815	ppb		94
14) ACROLEIN	2.929	56	309	5.4912499	ppb	#	1
17) ACETONE	3.069	43	6274	3.1350050	ppb		95
18) IODOMETHANE	2.802	142	2481	0.3704448	ppb	#	94
20) ALLYL CHLORIDE	2.984	76	138682	49.7910227	ppb		97
21) METHYLENE CHLORIDE	3.051	84	4119	0.7371784	ppb		99
22) METHYL ACETATE	3.130	43	996869	251.0349476	ppb	#	99
23) ACRYLONITRILE	3.477	53	416458	189.8628976	ppb	#	52
24) n-HEXANE	3.124	56	1191	0.2924851	ppb	#	1
27) 1,1-DICHLOROETHANE	3.477	63	7278	0.7316602	ppb	#	43
28) VINYL ACETATE	3.593	43	15760	1.8357286	ppb	#	76
30) ETHYL TERT-BUTYL ETHER	3.593	59	125027	8.6397602	ppb		97
33) 2-BUTANONE (MEK)	4.177	43	68822	26.3114344	ppb	#	44
35) TETRAHYDROFURAN	4.104	42	263	0.1485105	ppb	#	1
36) CHLOROFORM	3.921	83	3999	0.4036232	ppb	#	42
37) CYCLOHEXANE	3.921	84	69568	9.1939071	ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.177	57	301635	23.7371284	ppb	#	13
43) n-Heptane	4.177	71	560	0.1551862	ppb	#	1
45) TERT-AMYL METHYL ETHER	4.304	73	102926	6.7190943	ppb	#	61
47) T-AMYL ALCOHOL	4.396	59	21286	37.8796877	ppb		88
49) TRICHLOROETHENE	4.602	130	3080	0.5251637	ppb	#	97
50) METHYL CYCLOHEXANE	4.602	83	77121	8.0653865	ppb		95
53) BROMODICHLOROMETHANE	4.992	83	1427	0.1839272	ppb	#	1
62) 1,1,2-TRICHLOROETHANE	5.770	97	1525	0.3173796	ppb	#	1
63) TETRACHLOROETHENE	5.722	164	6886	1.5989469	ppb		89
65) 2-HEXANONE	6.178	58	1908	0.8814081	ppb	#	1
70) ETHYLBENZENE	6.458	106	2219	0.2712346	ppb		100
71) M&P-XYLENE	6.549	106	8791	0.9071679	ppb		100
72) O-XYLENE	6.859	106	1684	0.1747918	ppb		86
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	5453	2.8226153	ppb	#	81
81) N-PROPYLBENZENE	7.328	91	18746	0.6655756	ppb	#	65

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_28.D
Acq On : 22 Feb 2017 12:01 am
Operator : 605
Sample : SSCV VMS 10a ppb 17B19365
Misc : IS/SURR 16L30078
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 14:01:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration

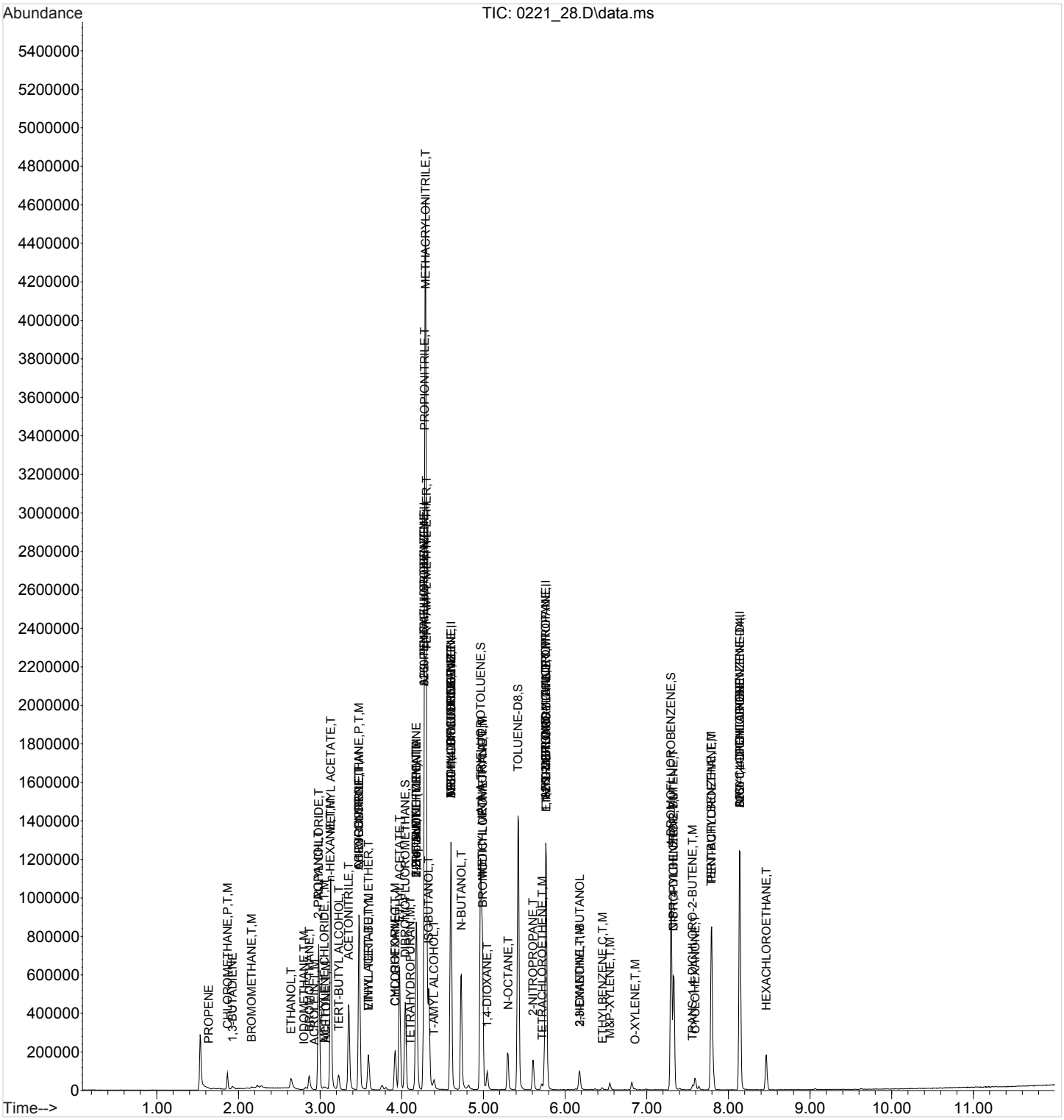
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	TERT-BUTYLBENZENE	7.790	119	142410	8.3703153	ppb	#	32
91)	DICYCLOPENTADIENE	8.143	66	6619	0.3144738	ppb	#	80
105)	ETHANOL	2.643	45	55733	1011.7038200	ppb		97
106)	BROMOETHANE	2.869	108	48201	11.8514552	ppb		94
107)	2-PROPANOL	2.978	45	15139	47.5047932	ppb		92
108)	ACETONITRILE	3.349	41	379288	469.3710550	ppb		99
109)	TERT-BUTYL ALCOHOL	3.228	59	74733	64.3692658	ppb	#	92
110)	CHLOROPRENE	3.477	53	416458	52.0066928	ppb		99
111)	PROPIONITRILE	4.280	54	403497	432.9350507	ppb		91
112)	ETHYL ACETATE	3.976	43	561131	96.9269562	ppb		99
113)	METHACRYLONITRILE	4.292	67	1133021	519.3204771	ppb		95
114)	TERT-BUTYL FORMATE	4.177	59	412778	149.5293599	ppb		98
115)	ISOBUTANOL	4.329	43	246956	1001.7997138	ppb	#	100
117)	N-BUTANOL	4.730	56	280827	2117.7903103	ppb		99
118)	2-NITROPROPANE	5.606	43	86003	51.2975366	ppb		99
119)	METHYL METHACRYLATE	4.986	41	259756	51.3257382	ppb		98
120)	1,4-DIOXANE	5.047	88	53056	1036.6339543	ppb		96
121)	N-OCTANE	5.302	85	35724	10.1061321	ppb		96
122)	3,3-DIMETHYL-1-BUTANOL	6.178	57	41042	86.1259923	ppb		100
124)	ETHYL METHACRYLATE	5.770	69	317568	51.2907678	ppb		99
125)	CIS-1,4-DICHLORO-2-BUTENE	7.328	53	108354	51.1980625	ppb		98
126)	CYCLOHEXANONE	7.596	55	21728	89.0702716	ppb		98
127)	PENTACHLOROETHANE	7.796	117	148312	50.9205235	ppb		98
128)	HEXACHLOROETHANE	8.465	117	34317	10.0870982	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_28.D
Acq On : 22 Feb 2017 12:01 am
Operator : 605
Sample : SSCV VMS 10a ppb 17B19365
Misc : IS/SURR 16L30078
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 14:01:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 14:00:51 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_03.D
Acq On : 21 Feb 2017 2:37 pm
Operator : 605
Sample : STD VMS 0.25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:31:25 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	452241	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	708782	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	116839	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	302060	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	226393	40.3698135	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.92%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	390219	40.2265965	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.57%				
58) TOLUENE-D8	5.424	98	835507	39.8521061	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.63%				
76) 4-BROMOFLUOROBENZENE	7.297	95	315774	38.9511782	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.38%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-4041978m	75.9820307	ppm		
3) LRH (C5-C8)	4.000	TIC	-3986638m	Below Cal			
4) PROPENE	1.640	41	3980	0.7453876	ppb	#	88
5) DICHLORODIFLUOROMETHANE	1.682	85	2214	0.3404917	ppb	#	83
6) CHLOROMETHANE	1.865	50	3144	0.4263915	ppb	#	89
7) VINYL CHLORIDE	1.913	62	3563	0.4933187	ppb	#	88
8) 1,3-BUTADIENE	1.926	39	4558	0.8759210	ppb	#	79
9) BROMOMETHANE	2.163	94	1311	0.5340426	ppb	#	87
10) CHLOROETHANE	2.254	64	1581	0.3775212	ppb	#	89
11) TRICHLOROFLUOROMETHANE	2.358	101	4080	0.4592364	ppb	#	97
12) DICHLOROFLUOROMETHANE	2.388	67	4759	0.4180396	ug/l	#	84
13) ETHYL ETHER	2.552	59	1190	0.2678130	ppb	#	63
14) ACROLEIN	2.899	56	452	0.7525669	ppb	#	38
15) 1,1-DICHLOROETHENE	2.698	96	2964	0.5427338	ppb		90
16) 1,1,2-TRICHLOROTRIFLUO...	2.716	101	1693	0.3168858	ppb	#	79
17) ACETONE	3.075	43	3518	1.6310132	ppb		96
18) IODOMETHANE	2.802	142	9493	1.2056278	ppb		100
19) CARBON DISULFIDE	2.741	76	9719	0.5708865	ppb		95
20) ALLYL CHLORIDE	2.984	76	4521	1.5096779	ppb		86
21) METHYLENE CHLORIDE	3.045	84	2385	0.4384340	ppb		85
22) METHYL ACETATE	3.130	43	5674	1.3594405	ppb	#	97
23) ACRYLONITRILE	3.532	53	3363	1.4636129	ppb		91
24) n-HEXANE	3.173	56	1395	0.3288593	ppb	#	54
25) TRANS-1,2-DICHLOROETHENE	3.142	96	2446	0.4363573	ppb		88
26) METHYL TERT-BUTYL ETHER	3.191	73	4268	0.2723103	ppb		85
27) 1,1-DICHLOROETHANE	3.495	63	3374	0.3178967	ppb		97
28) VINYL ACETATE	3.611	43	11890	1.3122987	ppb		97
29) DI-ISOPROPYL ETHER	3.392	45	4824	0.2860299	ppb		96
30) ETHYL TERT-BUTYL ETHER	3.593	59	4409	0.2852869	ppb	#	87
31) 2,2-DICHLOROPROPANE	3.860	77	4442	0.4732031	ppb		96
32) CIS-1,2-DICHLOROETHENE	3.799	96	2434	0.3872255	ppb	#	79
33) 2-BUTANONE (MEK)	4.104	43	3435	1.3596311	ppb		98
34) BROMOCHLOROMETHANE	3.915	130	827	0.2798622	ppb		95
35) TETRAHYDROFURAN	4.043	42	1488	0.7892193	ppb	#	67

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_03.D
Acq On : 21 Feb 2017 2:37 pm
Operator : 605
Sample : STD VMS 0.25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:31:25 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	3300	0.3235009	ppb	#	90
37) CYCLOHEXANE	3.921	84	3499	0.4123438	ppb	#	85
39) 1,1,1-TRICHLOROETHANE	4.073	97	3736	0.4163052	ppb		99
40) CARBON TETRACHLORIDE	4.031	117	4613	0.5727318	ppb		86
41) 1,1-DICHLOROPROPENE	4.134	75	3780	0.4705394	ppb	#	81
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	2980	0.2110801	ppb	#	86
43) n-Heptane	4.213	71	1264	0.3222450	ppb	#	55
44) BENZENE	4.280	78	6620	0.3018511	ppb	#	1
45) TERT-AMYL METHYL ETHER	4.304	73	5937	0.3807380	ppb	#	52
46) 1,2-DICHLOROETHANE	4.396	62	1956	0.2638836	ppb	#	76
47) T-AMYL ALCOHOL	4.396	59	898	1.5938000	ppb	#	1
49) TRICHLOROETHENE	4.602	130	1829	0.3068047	ppb	#	51
50) METHYL CYCLOHEXANE	4.602	83	11433	1.2262750	ppb	#	64
51) 1,2-DICHLOROPROPANE	4.913	62	960	0.2477687	ppb	#	83
52) DIBROMOMETHANE	4.864	93	1051	0.2884534	ppb		88
53) BROMODICHLOROMETHANE	4.931	83	2780	0.3729917	ppb	#	91
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	4777	1.2875246	ppb	#	83
56) CIS-1,3-DICHLOROPROPENE	5.314	75	2135	0.2563902	ppb	#	38
57) 4-METHYL-2-PENTANONE (...	5.673	43	7561	1.3890184	ppb		97
59) TOLUENE	5.460	91	7409	0.3192098	ppb		96
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	2142	0.2814460	ppb	#	68
62) 1,1,2-TRICHLOROETHANE	5.819	97	1615	0.3386180	ppb	#	84
63) TETRACHLOROETHENE	5.716	164	1656	0.3676346	ppb		92
64) 1,3-DICHLOROPROPANE	6.008	76	2096	0.2529270	ppb	#	87
65) 2-HEXANONE	6.215	58	2986	1.2929208	ppb		92
66) CHLORODIBROMOMETHANE	5.953	129	1468	0.2678616	ppb	#	94
67) 1,2-DIBROMOETHANE	6.123	107	1384	0.2650145	ppb		85
68) CHLOROBENZENE	6.458	112	3663	0.2504798	ppb	#	73
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	1472	0.3153550	ppb	#	97
70) ETHYLBENZENE	6.452	106	2364	0.2791997	ppb		85
71) M&P-XYLENE	6.549	106	5389	0.5462730	ppb		79
72) O-XYLENE	6.859	106	2620	0.2655785	ppb		84
73) STYRENE	6.896	104	3678	0.2423923	ppb	#	85
74) BROMOFORM	6.945	173	988	0.2723287	ppb	#	83
75) ISOPROPYLBENZENE	7.072	105	7812	0.3006973	ppb	#	89
77) BROMOBENZENE	7.383	77	3616	0.3689839	ppb	#	76
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	2478	0.3733392	ppb	#	92
79) 1,2,3-TRICHLOROPROPANE	7.547	110	698	0.3506960	ppb	#	83
80) TRANS-1,4-DICHLORO-2-B...	7.553	53	655	0.3382415	ppb	#	53
81) N-PROPYLBENZENE	7.370	91	9897	0.3440619	ppb		95
82) 4-ETHYLTOLUENE	7.450	105	7104	0.2986895	ppb		93
83) 2-CHLOROTOLUENE	7.510	91	5620	0.3185723	ppb		94
84) 4-CHLOROTOLUENE	7.632	91	5266	0.3113043	ppb		98
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	5961	0.3055056	ppb		95
86) TERT-BUTYLBENZENE	7.754	119	5781	0.3367848	ppb		90
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	5286	0.2723052	ppb		99
88) SEC-BUTYLBENZENE	7.894	105	9348	0.3710355	ppb		96
89) 1,3-DICHLOROBENZENE	8.088	146	2633	0.2505935	ppb		97
90) P-ISOPROPYLTOLUENE	7.991	119	6658	0.3214105	ppb	#	90
91) DICYCLOPENTADIENE	7.997	66	6636	0.3105669	ppb	#	93
93) 1,4-DICHLOROBENZENE	8.155	146	2434	0.2539425	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.143	105	5149	0.2859972	ppb		90
95) 1,2-DICHLOROBENZENE	8.490	146	2429	0.2500641	ppb		96
96) N-BUTYLBENZENE	8.326	91	6389	0.3412021	ppb		97
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	343	0.2081472	ppb	#	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_03.D
Acq On : 21 Feb 2017 2:37 pm
Operator : 605
Sample : STD VMS 0.25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:31:25 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

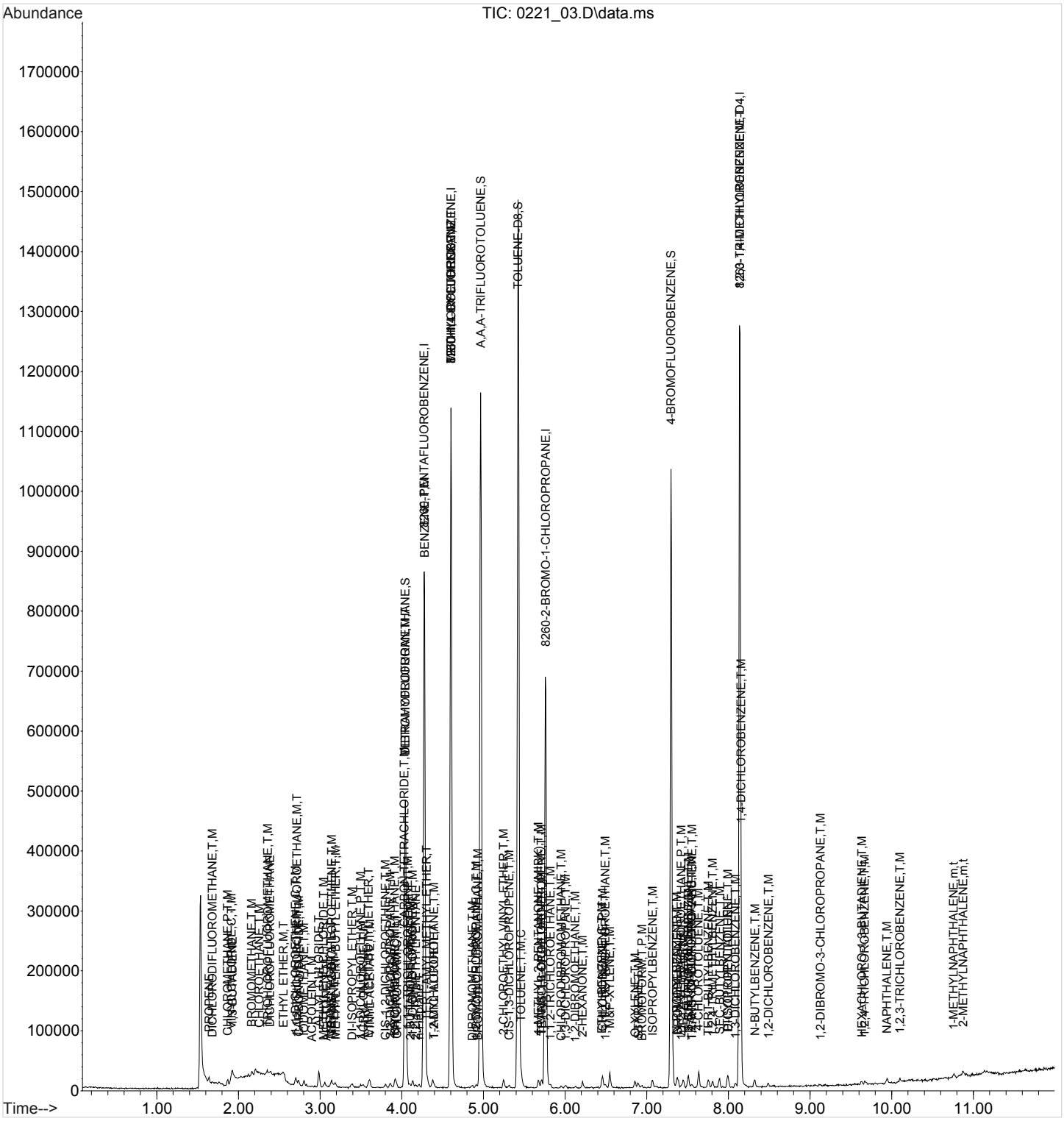
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.670	180	1389	0.2458200	ppb	#	88
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	929	0.3758167	ppb		92
100)	NAPHTHALENE	9.944	128	4646	0.2389097	ppb	#	92
101)	1,2,3-TRICHLOROBENZENE	10.102	180	1477	0.2692299	ppb	#	81
102)	1-METHYLNAPHTHALENE	10.759	142	1882	0.2382594	ppb	#	61
103)	2-METHYLNAPHTHALENE	10.875	142	2124	0.2931727	ppb	#	74

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_03.D
Acq On : 21 Feb 2017 2:37 pm
Operator : 605
Sample : STD VMS 0.25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:31:25 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_04.D
Acq On : 21 Feb 2017 2:59 pm
Operator : 605
Sample : STD VMS 0.5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:32:26 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	443067	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	694375	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	114121	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	301829	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	221358	40.2892793	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.72%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	388554	40.8860227	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.22%				
58) TOLUENE-D8	5.424	98	817260	39.7905582	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.48%				
76) 4-BROMOFLUOROBENZENE	7.297	95	315637	39.8615700	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.65%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3788948m	72.7002751	ppm		
3) LRH (C5-C8)	4.000	TIC	-3719922m	Below Cal			
4) PROPENE	1.634	41	3401	0.6501390	ppb		92
5) DICHLORODIFLUOROMETHANE	1.670	85	1854	0.2910309	ppb	#	84
6) CHLOROMETHANE	1.865	50	3854	0.5335047	ppb		95
7) VINYL CHLORIDE	1.913	62	3000	0.4239684	ppb	#	83
8) 1,3-BUTADIENE	1.926	39	3352	0.6574991	ppb		85
9) BROMOMETHANE	2.163	94	1997	0.8303321	ppb	#	88
10) CHLOROETHANE	2.254	64	2042	0.4976979	ppb	#	57
11) TRICHLOROFLUOROMETHANE	2.358	101	3650	0.4193431	ppb	#	96
12) DICHLOROFLUOROMETHANE	2.394	67	5599	0.5020104	ug/l	#	50
13) ETHYL ETHER	2.552	59	2148	0.4934231	ppb	#	74
14) ACROLEIN	2.899	56	1203	2.0444327	ppb	#	62
15) 1,1-DICHLOROETHENE	2.698	96	2947	0.5507942	ppb	#	76
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	1828	0.3492388	ppb	#	90
17) ACETONE	3.075	43	5620	2.6594908	ppb		100
18) IODOMETHANE	2.802	142	16478	2.1360667	ppb		98
19) CARBON DISULFIDE	2.735	76	9302	0.5577057	ppb	#	92
20) ALLYL CHLORIDE	2.984	76	7052	2.4036023	ppb		85
21) METHYLENE CHLORIDE	3.051	84	3699	0.6940659	ppb	#	79
22) METHYL ACETATE	3.130	43	11175	2.7328697	ppb	#	98
23) ACRYLONITRILE	3.526	53	6213	2.7599502	ppb		88
24) n-HEXANE	3.173	56	2337	0.5623351	ppb	#	73
25) TRANS-1,2-DICHLOROETHENE	3.142	96	2770	0.5043895	ppb		100
26) METHYL TERT-BUTYL ETHER	3.191	73	8720	0.5678801	ppb		97
27) 1,1-DICHLOROETHANE	3.495	63	4905	0.4717159	ppb	#	88
28) VINYL ACETATE	3.605	43	24032	2.7073306	ppb		97
29) DI-ISOPROPYL ETHER	3.386	45	8322	0.5036542	ppb		90
30) ETHYL TERT-BUTYL ETHER	3.592	59	7126	0.4706392	ppb	#	90
31) 2,2-DICHLOROPROPANE	3.860	77	5276	0.5736861	ppb		92
32) CIS-1,2-DICHLOROETHENE	3.805	96	3186	0.5173562	ppb		91
33) 2-BUTANONE (MEK)	4.104	43	8727	3.5258176	ppb	#	83
34) BROMOCHLOROMETHANE	3.915	130	1647	0.5688960	ppb		99
35) TETRAHYDROFURAN	4.049	42	1637	0.8862250	ppb	#	82

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_04.D
Acq On : 21 Feb 2017 2:59 pm
Operator : 605
Sample : STD VMS 0.5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:32:26 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	5436	0.5439281	ppb		97
37) CYCLOHEXANE	3.921	84	3517	0.4230468	ppb		93
39) 1,1,1-TRICHLOROETHANE	4.073	97	4419	0.5026081	ppb		92
40) CARBON TETRACHLORIDE	4.037	117	4548	0.5763533	ppb		86
41) 1,1-DICHLOROPROPENE	4.134	75	3597	0.4570305	ppb	#	83
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	5540	0.4005357	ppb		96
43) n-Heptane	4.207	71	1618	0.4210350	ppb	#	82
44) BENZENE	4.280	78	10886	0.5066449	ppb	#	28
45) TERT-AMYL METHYL ETHER	4.310	73	7652	0.5008811	ppb	#	51
46) 1,2-DICHLOROETHANE	4.389	62	3595	0.4950431	ppb	#	93
47) T-AMYL ALCOHOL	4.396	59	1701	3.0815011	ppb	#	67
49) TRICHLOROETHENE	4.602	130	2548	0.4362811	ppb	#	99
50) METHYL CYCLOHEXANE	4.602	83	11621	1.2723007	ppb	#	72
51) 1,2-DICHLOROPROPANE	4.913	62	2139	0.5635138	ppb		94
52) DIBROMOMETHANE	4.858	93	1687	0.4726141	ppb		97
53) BROMODICHLOROMETHANE	4.937	83	4181	0.5726024	ppb	#	78
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	8890	2.4457985	ppb	#	89
56) CIS-1,3-DICHLOROPROPENE	5.314	75	4087	0.5009874	ppb	#	75
57) 4-METHYL-2-PENTANONE (...	5.673	43	13673	2.5639595	ppb		93
59) TOLUENE	5.460	91	11846	0.5209631	ppb		97
60) TRANS-1,3-DICHLOROPROPENE	5.716	75	3580	0.4801503	ppb	#	66
62) 1,1,2-TRICHLOROETHANE	5.819	97	2265	0.4862145	ppb		91
63) TETRACHLOROETHENE	5.710	164	2050	0.4659423	ppb		98
64) 1,3-DICHLOROPROPANE	6.008	76	3700	0.4571176	ppb	#	86
65) 2-HEXANONE	6.215	58	5192	2.3016488	ppb		90
66) CHLORODIBROMOMETHANE	5.947	129	2805	0.5240099	ppb	#	86
67) 1,2-DIBROMOETHANE	6.123	107	2508	0.4916808	ppb		99
68) CHLOROBENZENE	6.464	112	6532	0.4573033	ppb	#	78
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	2730	0.5987932	ppb	#	86
70) ETHYLBENZENE	6.452	106	3816	0.4614217	ppb		89
71) M&P-XYLENE	6.549	106	9268	0.9618556	ppb		88
72) O-XYLENE	6.853	106	4832	0.5014653	ppb		96
73) STYRENE	6.896	104	7084	0.4779780	ppb		90
74) BROMOFORM	6.945	173	1592	0.4492642	ppb		97
75) ISOPROPYLBENZENE	7.072	105	11877	0.4680544	ppb		95
77) BROMOBENZENE	7.389	77	4983	0.5205856	ppb		95
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	3877	0.5980263	ppb		99
79) 1,2,3-TRICHLOROPROPANE	7.547	110	922	0.4742732	ppb	#	62
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	1492	0.7888177	ppb	#	58
81) N-PROPYLBENZENE	7.376	91	13686	0.4871154	ppb		97
82) 4-ETHYLTOLUENE	7.449	105	11302	0.4865132	ppb		96
83) 2-CHLOROTOLUENE	7.510	91	8331	0.4834940	ppb	#	96
84) 4-CHLOROTOLUENE	7.638	91	8354	0.5056162	ppb	#	96
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	9176	0.4814772	ppb		95
86) TERT-BUTYLBENZENE	7.760	119	8164	0.4869393	ppb		94
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	9627	0.5077407	ppb		92
88) SEC-BUTYLBENZENE	7.894	105	12223	0.4967030	ppb		95
89) 1,3-DICHLOROBENZENE	8.088	146	5069	0.4939278	ppb		98
90) P-ISOPROPYLTOLUENE	7.991	119	9667	0.4777825	ppb		94
91) DICYCLOPENTADIENE	8.003	66	10866	0.5206439	ppb	#	93
93) 1,4-DICHLOROBENZENE	8.155	146	5065	0.5288427	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	8906	0.4950554	ppb		98
95) 1,2-DICHLOROBENZENE	8.490	146	4264	0.4393122	ppb		97
96) N-BUTYLBENZENE	8.319	91	8708	0.4654033	ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.122	157	668	0.4056815	ppb	#	67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_04.D
Acq On : 21 Feb 2017 2:59 pm
Operator : 605
Sample : STD VMS 0.5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:32:26 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.676	180	2772	0.4909535	ppb	#	89
99)	HEXACHLORO-1,3-BUTADIENE	9.633	225	1069	0.4327831	ppb		91
100)	NAPHTHALENE	9.944	128	9348	0.4810669	ppb		97
101)	1,2,3-TRICHLOROBENZENE	10.102	180	2505	0.4569649	ppb		97
102)	1-METHYLNAPHTHALENE	10.759	142	3741	0.4739695	ppb	#	83
103)	2-METHYLNAPHTHALENE	10.875	142	3537	0.4885807	ppb	#	87

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_04.D
Acq On : 21 Feb 2017 2:59 pm
Operator : 605
Sample : STD VMS 0.5 ppb 17B21483
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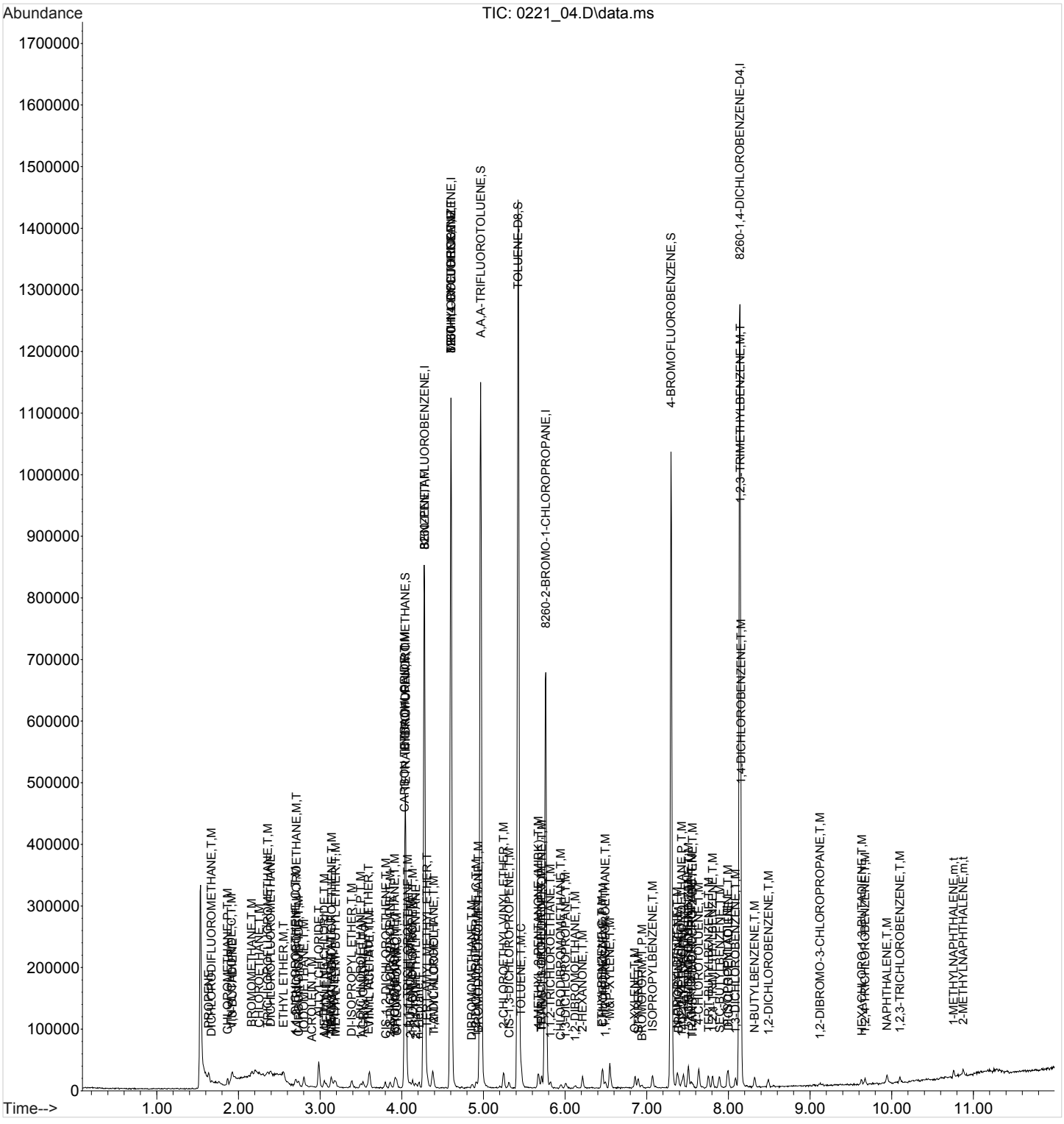
Quant Time: Feb 22 13:32:26 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : STD VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:33:21 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.280	168	452516	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	719707	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.764	79	116513	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	307673	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	233212	41.5604877	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.90%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	404131	41.0283448	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.57%				
58) TOLUENE-D8	5.424	98	859257	40.3627936	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.91%				
76) 4-BROMOFLUOROBENZENE	7.297	95	324802	40.1768951	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.44%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3955863m	74.3180328	ppm		
3) LRH (C5-C8)	4.000	TIC	-3834935m	Below Cal			
4) PROPENE	1.634	41	6665	1.2474847	ppb		95
5) DICHLORODIFLUOROMETHANE	1.676	85	5399	0.8298091	ppb		96
6) CHLOROMETHANE	1.865	50	7998	1.0840353	ppb		97
7) VINYL CHLORIDE	1.913	62	6899	0.9546273	ppb	#	96
8) 1,3-BUTADIENE	1.920	39	6283	1.2066844	ppb		91
9) BROMOMETHANE	2.163	94	4780	1.9459744	ppb	#	79
10) CHLOROETHANE	2.254	64	4326	1.0323620	ppb	#	71
11) TRICHLOROFLUOROMETHANE	2.358	101	8298	0.9334381	ppb	#	92
12) DICHLOROFLUOROMETHANE	2.388	67	11243	0.9870063	ug/l		95
13) ETHYL ETHER	2.552	59	4240	0.9536446	ppb		90
14) ACROLEIN	2.899	56	2496	4.1532420	ppb	#	77
15) 1,1-DICHLOROETHENE	2.698	96	5685	1.0403396	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	4277	0.8000572	ppb	#	92
17) ACETONE	3.075	43	9488	4.3961481	ppb	#	86
18) IODOMETHANE	2.802	142	34418	4.3684906	ppb		97
19) CARBON DISULFIDE	2.735	76	19330	1.1347392	ppb		97
20) ALLYL CHLORIDE	2.984	76	16163	5.3939604	ppb		95
21) METHYLENE CHLORIDE	3.051	84	7462	1.3709042	ppb		97
22) METHYL ACETATE	3.130	43	23049	5.5189817	ppb	#	100
23) ACRYLONITRILE	3.526	53	11661	5.0719054	ppb		100
24) n-HEXANE	3.173	56	4584	1.0799822	ppb	#	83
25) TRANS-1,2-DICHLOROETHENE	3.142	96	6412	1.1431817	ppb		91
26) METHYL TERT-BUTYL ETHER	3.191	73	18076	1.1525983	ppb		86
27) 1,1-DICHLOROETHANE	3.501	63	10465	0.9854083	ppb		94
28) VINYL ACETATE	3.605	43	48398	5.3384387	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	16311	0.9665421	ppb		94
30) ETHYL TERT-BUTYL ETHER	3.599	59	16467	1.0648594	ppb		95
31) 2,2-DICHLOROPROPANE	3.860	77	10106	1.0759308	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.799	96	6507	1.0345706	ppb		95
33) 2-BUTANONE (MEK)	4.104	43	15616	6.1773204	ppb		90
34) BROMOCHLOROMETHANE	3.915	130	3353	1.1339876	ppb		97
35) TETRAHYDROFURAN	4.043	42	3088	1.6368470	ppb	#	86

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : STD VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:33:21 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) CHLOROFORM	3.939	83	11257	1.1028594 ppb		99
37) CYCLOHEXANE	3.921	84	7750	0.9127528 ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	9454	1.0528259 ppb		93
40) CARBON TETRACHLORIDE	4.037	117	8578	1.0643632 ppb		97
41) 1,1-DICHLOROPROPENE	4.134	75	8299	1.0324426 ppb		96
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	12789	0.9053229 ppb		97
43) n-Heptane	4.213	71	3319	0.8456340 ppb	#	61
44) BENZENE	4.280	78	21895	0.9977362 ppb	#	64
45) TERT-AMYL METHYL ETHER	4.310	73	17686	1.1335085 ppb	#	68
46) 1,2-DICHLOROETHANE	4.396	62	7368	0.9934116 ppb	#	93
47) T-AMYL ALCOHOL	4.389	59	3522	6.2471628 ppb	#	84
49) TRICHLOROETHENE	4.602	130	6109	1.0091958 ppb	#	98
50) METHYL CYCLOHEXANE	4.602	83	16913	1.7865093 ppb	#	75
51) 1,2-DICHLOROPROPANE	4.913	62	4198	1.0670249 ppb		90
52) DIBROMOMETHANE	4.858	93	3571	0.9652056 ppb		97
53) BROMODICHLOROMETHANE	4.937	83	7836	1.0353944 ppb	#	92
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	18971	5.0355566 ppb		99
56) CIS-1,3-DICHLOROPROPENE	5.314	75	8117	0.9599664 ppb		90
57) 4-METHYL-2-PENTANONE (...	5.673	43	26707	4.8318206 ppb		100
59) TOLUENE	5.460	91	23927	1.0152240 ppb		98
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	7619	0.9858947 ppb	#	96
62) 1,1,2-TRICHLOROETHANE	5.819	97	5230	1.0996452 ppb		94
63) TETRACHLOROETHENE	5.716	164	4452	0.9911163 ppb		92
64) 1,3-DICHLOROPROPANE	6.008	76	8238	0.9968716 ppb		90
65) 2-HEXANONE	6.215	58	10619	4.6108307 ppb		89
66) CHLORODIBROMOMETHANE	5.947	129	5130	0.9386748 ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	5163	0.9914003 ppb		100
68) CHLOROBENZENE	6.464	112	14523	0.9958769 ppb		97
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	5524	1.1867496 ppb	#	88
70) ETHYLBENZENE	6.458	106	8225	0.9741297 ppb		89
71) M&P-XYLENE	6.549	106	21027	2.1374321 ppb		95
72) O-XYLENE	6.859	106	10203	1.0371295 ppb		97
73) STYRENE	6.896	104	15502	1.0244913 ppb		97
74) BROMOFORM	6.938	173	3587	0.9914740 ppb		95
75) ISOPROPYLBENZENE	7.072	105	26021	1.0043955 ppb	#	95
77) BROMOBENZENE	7.389	77	10555	1.0800670 ppb		98
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	7452	1.1258708 ppb		96
79) 1,2,3-TRICHLOROPROPANE	7.547	110	2198	1.1074307 ppb		83
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	2149	1.1128469 ppb	#	89
81) N-PROPYLBENZENE	7.370	91	27709	0.9659782 ppb		99
82) 4-ETHYLTOLUENE	7.449	105	24253	1.0225768 ppb		99
83) 2-CHLOROTOLUENE	7.510	91	19203	1.0915766 ppb		98
84) 4-CHLOROTOLUENE	7.632	91	17909	1.0616687 ppb		94
85) 1,3,5-TRIMETHYLBENZENE	7.510	105	20230	1.0397033 ppb		100
86) TERT-BUTYLBENZENE	7.760	119	17549	1.0252160 ppb		98
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	20326	1.0500117 ppb		97
88) SEC-BUTYLBENZENE	7.888	105	26345	1.0485965 ppb		97
89) 1,3-DICHLOROBENZENE	8.088	146	10552	1.0070873 ppb		95
90) P-ISOPROPYLTOLUENE	7.991	119	20518	0.9932641 ppb		98
91) DICYCLOPENTADIENE	8.003	66	21630	1.0151233 ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	9840	1.0078914 ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	18381	1.0023326 ppb		96
95) 1,2-DICHLOROBENZENE	8.490	146	9482	0.9583575 ppb		99
96) N-BUTYLBENZENE	8.326	91	18458	0.9677591 ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	1802	1.0735817 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : STD VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

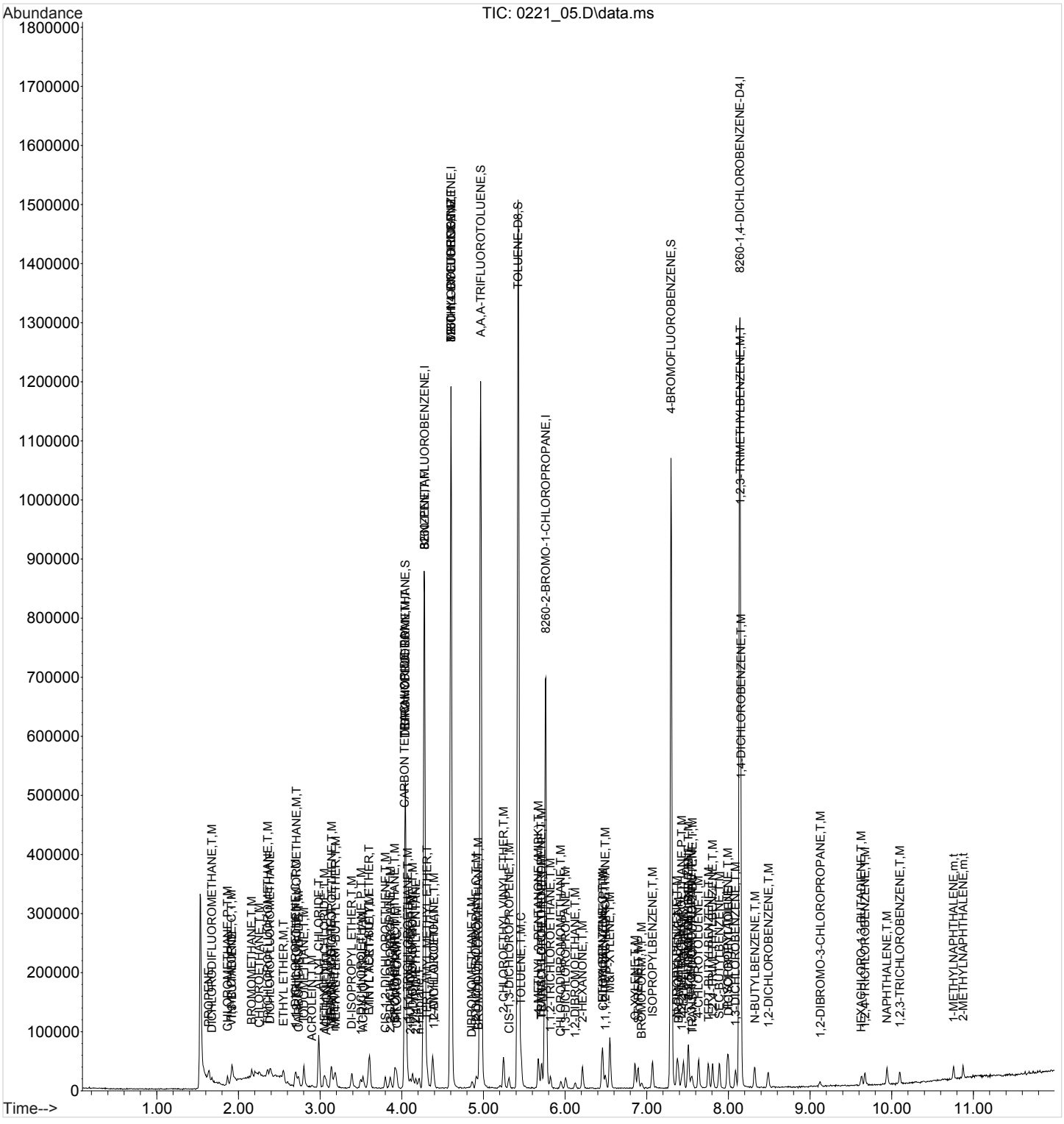
Quant Time: Feb 22 13:33:21 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.676	180	5491	0.9540479	ppb		99
99)	HEXACHLORO-1,3-BUTADIENE	9.627	225	2350	0.9333232	ppb		95
100)	NAPHTHALENE	9.944	128	18053	0.9113974	ppb		99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	5296	0.9477518	ppb		96
102)	1-METHYLNAPHTHALENE	10.759	142	6938	0.8623201	ppb	#	87
103)	2-METHYLNAPHTHALENE	10.875	142	6870	0.9309568	ppb		89

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

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_05.D
Acq On : 21 Feb 2017 3:22 pm
Operator : 605
Sample : STD VMS 1 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:33:21 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : STD VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:34:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	458152	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	720589	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	117526	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	306954	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	239873	42.2216753	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.55%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	416132	42.1950051	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.49%				
58) TOLUENE-D8	5.424	98	881626	41.3628663	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.41%				
76) 4-BROMOFLUOROBENZENE	7.298	95	335626	41.1579469	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.89%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3903873m	72.4390897	ppm		
3) LRH (C5-C8)	4.000	TIC	-3712024m	Below Cal			
4) PROPENE	1.640	41	13856	2.5615173	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	13518	2.0521150	ppb		100
6) CHLOROMETHANE	1.865	50	17218	2.3049902	ppb		99
7) VINYL CHLORIDE	1.914	62	16044	2.1927278	ppb		98
8) 1,3-BUTADIENE	1.926	39	12874	2.4421058	ppb		93
9) BROMOMETHANE	2.163	94	7318	2.9425645	ppb		98
10) CHLOROETHANE	2.254	64	8614	2.0303679	ppb	#	86
11) TRICHLOROFLUOROMETHANE	2.358	101	18783	2.0868988	ppb	#	94
12) DICHLOROFLUOROMETHANE	2.388	67	24604	2.1333778	ug/l		91
13) ETHYL ETHER	2.552	59	9626	2.1384097	ppb		97
14) ACROLEIN	2.899	56	5641	9.2709260	ppb		90
15) 1,1-DICHLOROETHENE	2.698	96	12536	2.2658335	ppb		96
16) 1,1,2-TRICHLOROTRIFLUO...	2.717	101	11658	2.1539231	ppb		98
17) ACETONE	3.076	43	23405	10.7110153	ppb		99
18) IODOMETHANE	2.802	142	76521	9.5929188	ppb		99
19) CARBON DISULFIDE	2.735	76	40667	2.3579288	ppb		95
20) ALLYL CHLORIDE	2.984	76	34806	11.4726633	ppb		94
21) METHYLENE CHLORIDE	3.051	84	14543	2.6389443	ppb		95
22) METHYL ACETATE	3.130	43	46971	11.1086434	ppb	#	99
23) ACRYLONITRILE	3.526	53	26685	11.4637554	ppb		100
24) n-HEXANE	3.173	56	10307	2.3984386	ppb		82
25) TRANS-1,2-DICHLOROETHENE	3.143	96	13128	2.3117703	ppb		99
26) METHYL TERT-BUTYL ETHER	3.191	73	38063	2.3971931	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	23333	2.1700609	ppb		96
28) VINYL ACETATE	3.605	43	104272	11.3600150	ppb		98
29) DI-ISOPROPYL ETHER	3.386	45	36004	2.1072463	ppb		95
30) ETHYL TERT-BUTYL ETHER	3.593	59	34841	2.2253214	ppb		97
31) 2,2-DICHLOROPROPANE	3.860	77	20792	2.1863801	ppb		96
32) CIS-1,2-DICHLOROETHENE	3.800	96	13937	2.1886332	ppb		98
33) 2-BUTANONE (MEK)	4.104	43	31433	12.2811918	ppb		92
34) BROMOCHLOROMETHANE	3.915	130	7684	2.5667670	ppb		99
35) TETRAHYDROFURAN	4.043	42	4313	2.2580554	ppb	#	84

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : STD VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:34:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	24595	2.3799546	ppb		99
37) CYCLOHEXANE	3.921	84	18626	2.1666833	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.067	97	20298	2.2326392	ppb		99
40) CARBON TETRACHLORIDE	4.031	117	18830	2.3076954	ppb		98
41) 1,1-DICHLOROPROPENE	4.134	75	18541	2.2782306	ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	30862	2.1578206	ppb		96
43) n-Heptane	4.213	71	7619	1.9173327	ppb		94
44) BENZENE	4.280	78	49637	2.2340900	ppb	#	85
45) TERT-AMYL METHYL ETHER	4.305	73	35941	2.2751480	ppb	#	91
46) 1,2-DICHLOROETHANE	4.390	62	16699	2.2237934	ppb		99
47) T-AMYL ALCOHOL	4.396	59	7076	12.3966874	ppb		95
49) TRICHLOROETHENE	4.603	130	12652	2.0875293	ppb	#	98
50) METHYL CYCLOHEXANE	4.603	83	27794	2.9322688	ppb	#	88
51) 1,2-DICHLOROPROPANE	4.913	62	8718	2.2131818	ppb		98
52) DIBROMOMETHANE	4.858	93	7660	2.0678871	ppb		97
53) BROMODICHLOROMETHANE	4.937	83	17824	2.3522563	ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	40723	10.7960557	ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	17711	2.0920482	ppb		91
57) 4-METHYL-2-PENTANONE (...	5.673	43	59303	10.7159446	ppb		100
59) TOLUENE	5.460	91	53379	2.2621018	ppb		99
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	17938	2.3183268	ppb		98
62) 1,1,2-TRICHLOROETHANE	5.819	97	10428	2.1736637	ppb		94
63) TETRACHLOROETHENE	5.716	164	10709	2.3635174	ppb		97
64) 1,3-DICHLOROPROPANE	6.008	76	17856	2.1421114	ppb		99
65) 2-HEXANONE	6.215	58	24173	10.4055858	ppb		98
66) CHLORODIBROMOMETHANE	5.953	129	11232	2.0374892	ppb		96
67) 1,2-DIBROMOETHANE	6.123	107	11567	2.2019533	ppb		100
68) CHLOROBENZENE	6.458	112	33568	2.2819978	ppb		95
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	10855	2.3119353	ppb	#	92
70) ETHYLBENZENE	6.452	106	19866	2.3325542	ppb		98
71) M&P-XYLENE	6.549	106	46534	4.6894924	ppb		99
72) O-XYLENE	6.854	106	21566	2.1732773	ppb		90
73) STYRENE	6.890	104	33503	2.1950512	ppb		98
74) BROMOFORM	6.939	173	7700	2.1099934	ppb		97
75) ISOPROPYLBENZENE	7.073	105	57863	2.2142271	ppb		98
77) BROMOBENZENE	7.389	77	22884	2.3214793	ppb		96
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	15364	2.3012321	ppb		97
79) 1,2,3-TRICHLOROPROPANE	7.547	110	4474	2.2347311	ppb		95
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	4512	2.3163731	ppb		92
81) N-PROPYLBENZENE	7.371	91	62996	2.1772078	ppb		99
82) 4-ETHYLTOLUENE	7.450	105	53463	2.2347258	ppb		100
83) 2-CHLOROTOLUENE	7.511	91	40768	2.2974441	ppb		99
84) 4-CHLOROTOLUENE	7.632	91	36378	2.1379470	ppb		97
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	45349	2.3105836	ppb		99
86) TERT-BUTYLBENZENE	7.754	119	37283	2.1593064	ppb		97
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	42950	2.1996107	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	56506	2.2296936	ppb		99
89) 1,3-DICHLOROBENZENE	8.088	146	23079	2.1836838	ppb		96
90) P-ISOPROPYLTOLUENE	7.991	119	46010	2.2081185	ppb		99
91) DICYCLOPENTADIENE	8.003	66	49147	2.2866502	ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	20926	2.1484288	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	41751	2.2820528	ppb		99
95) 1,2-DICHLOROBENZENE	8.490	146	21040	2.1315201	ppb		94
96) N-BUTYLBENZENE	8.320	91	41055	2.1575693	ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.129	157	3075	1.8362911	ppb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : STD VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

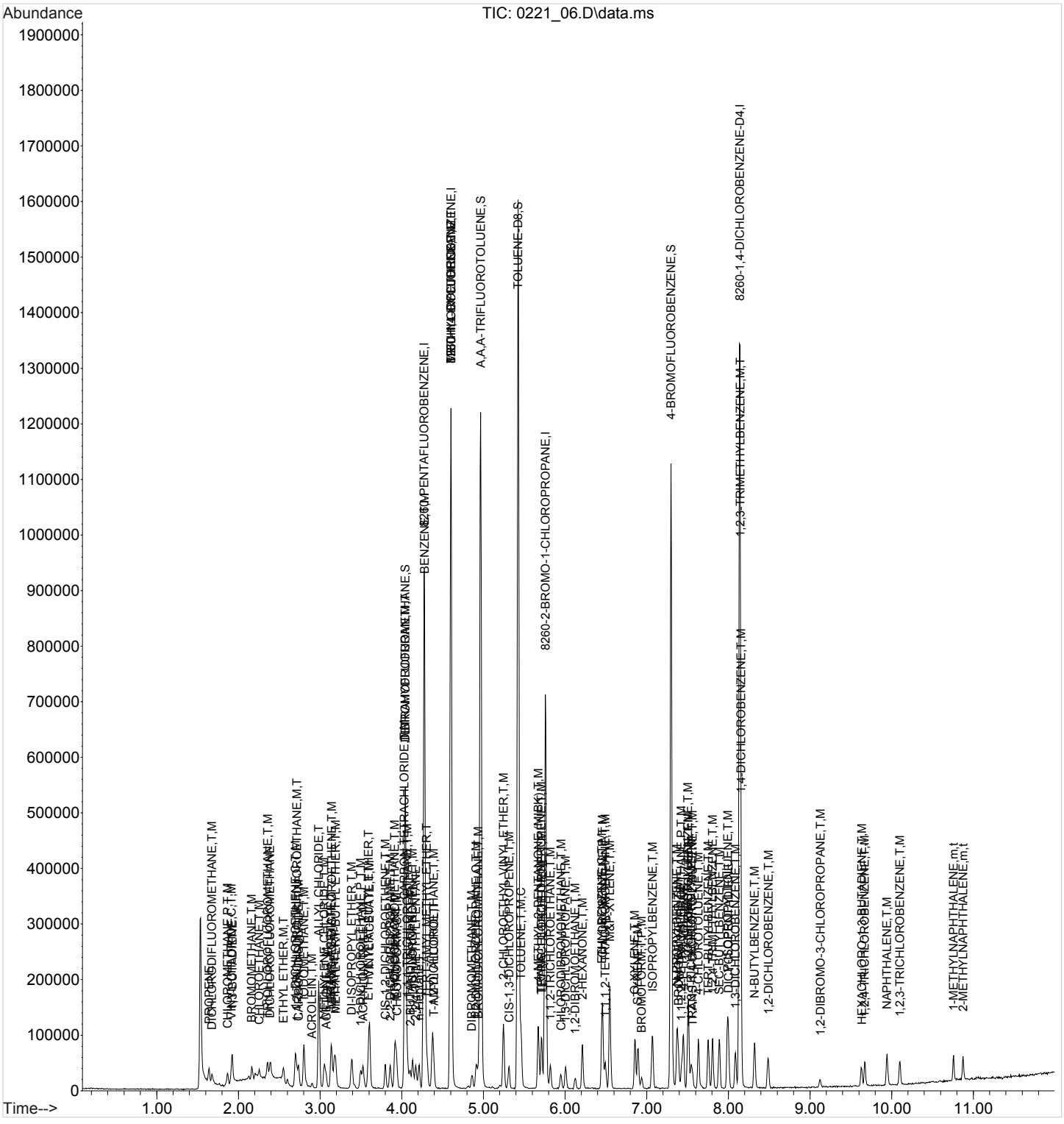
Quant Time: Feb 22 13:34:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98) 1,2,4-TRICHLOROBENZENE	9.670	180	11981	2.0865456 ppb	97
99) HEXACHLORO-1,3-BUTADIENE	9.634	225	5202	2.0708595 ppb	94
100) NAPHTHALENE	9.944	128	39361	1.9917765 ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.102	180	11670	2.0933102 ppb	97
102) 1-METHYLNAPHTHALENE	10.759	142	16996	2.1173714 ppb	95
103) 2-METHYLNAPHTHALENE	10.875	142	15454	2.0990838 ppb	97

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

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_06.D
Acq On : 21 Feb 2017 3:45 pm
Operator : 605
Sample : STD VMS 2 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:34:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : STD VMS 5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:35:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	435361	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	695462	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.765	79	111509	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	301617	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	231687	42.9156629	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.29%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	409228	42.9941625	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.49%				
58) TOLUENE-D8	5.424	98	861926	41.8996544	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.75%				
76) 4-BROMOFLUOROBENZENE	7.298	95	333120	43.0549261	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.64%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-3151336m	61.5363992	ppm		
3) LRH (C5-C8)	4.000	TIC	-2670414m	Below Cal			
4) PROPENE	1.640	41	25051	4.8735402	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	27670	4.4203684	ppb		99
6) CHLOROMETHANE	1.865	50	33848	4.7684745	ppb		100
7) VINYL CHLORIDE	1.914	62	32994	4.7453375	ppb		99
8) 1,3-BUTADIENE	1.926	39	25563	5.1029682	ppb		92
9) BROMOMETHANE	2.163	94	13639	5.7713335	ppb		97
10) CHLOROETHANE	2.254	64	19206	4.7639463	ppb		96
11) TRICHLOROFLUOROMETHANE	2.352	101	39694	4.6411048	ppb		97
12) DICHLOROFLUOROMETHANE	2.388	67	54274	4.9523800	ug/l		100
13) ETHYL ETHER	2.552	59	20483	4.7884910	ppb		99
14) ACROLEIN	2.905	56	6118	10.5812396	ppb		94
15) 1,1-DICHLOROETHENE	2.698	96	25793	4.9060382	ppb		98
16) 1,1,2-TRICHLOROTRIFLUO...	2.711	101	22771	4.4273954	ppb		98
17) ACETONE	3.069	43	47284	22.7717427	ppb		98
18) IODOMETHANE	2.802	142	180059	23.7544527	ppb		99
19) CARBON DISULFIDE	2.735	76	83002	5.0645069	ppb		100
20) ALLYL CHLORIDE	2.984	76	74893	25.9783416	ppb		97
21) METHYLENE CHLORIDE	3.051	84	27205	5.1949936	ppb		96
22) METHYL ACETATE	3.130	43	104796	26.0817057	ppb	#	99
23) ACRYLONITRILE	3.526	53	57615	26.0468576	ppb		96
24) n-HEXANE	3.173	56	19187	4.6985458	ppb		92
25) TRANS-1,2-DICHLOROETHENE	3.142	96	26817	4.9695420	ppb		98
26) METHYL TERT-BUTYL ETHER	3.191	73	74980	4.9694178	ppb		98
27) 1,1-DICHLOROETHANE	3.495	63	50080	4.9014630	ppb		99
28) VINYL ACETATE	3.605	43	228520	26.1996494	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	77226	4.7565072	ppb		100
30) ETHYL TERT-BUTYL ETHER	3.593	59	74692	5.0203765	ppb		95
31) 2,2-DICHLOROPROPANE	3.860	77	46766	5.1751111	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.800	96	29139	4.8154667	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	74072	30.4557163	ppb		90
34) BROMOCHLOROMETHANE	3.915	130	15950	5.6068617	ppb		96
35) TETRAHYDROFURAN	4.043	42	10978	6.0483711	ppb	#	85

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : STD VMS 5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:35:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	49362	5.0266039	ppb		99
37) CYCLOHEXANE	3.921	84	37996	4.6512939	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.073	97	43094	4.9881806	ppb		99
40) CARBON TETRACHLORIDE	4.031	117	38628	4.9818477	ppb		96
41) 1,1-DICHLOROPROPENE	4.134	75	36974	4.7810251	ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	62761	4.6178646	ppb		97
43) n-Heptane	4.213	71	18683	4.9477323	ppb		92
44) BENZENE	4.274	78	103912	4.9217654	ppb		94
45) TERT-AMYL METHYL ETHER	4.304	73	73506	4.8966871	ppb	#	94
46) 1,2-DICHLOROETHANE	4.390	62	34311	4.8083649	ppb		95
47) T-AMYL ALCOHOL	4.396	59	15479	28.5378198	ppb		93
49) TRICHLOROETHENE	4.603	130	28069	4.7986002	ppb	#	99
50) METHYL CYCLOHEXANE	4.603	83	48230	5.2721069	ppb		92
51) 1,2-DICHLOROPROPANE	4.913	62	18027	4.7417419	ppb		100
52) DIBROMOMETHANE	4.864	93	17372	4.8591701	ppb		94
53) BROMODICHLOROMETHANE	4.937	83	34367	4.6993232	ppb		94
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	88631	24.3458659	ppb		97
56) CIS-1,3-DICHLOROPROPENE	5.314	75	38693	4.7356024	ppb		98
57) 4-METHYL-2-PENTANONE (...	5.673	43	130708	24.4720409	ppb		99
59) TOLUENE	5.460	91	110140	4.8361638	ppb		98
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	35694	4.7798039	ppb		99
62) 1,1,2-TRICHLOROETHANE	5.825	97	22178	4.8723418	ppb		96
63) TETRACHLOROETHENE	5.716	164	21922	5.0993414	ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	38034	4.8089903	ppb		96
65) 2-HEXANONE	6.215	58	55837	25.3327357	ppb		99
66) CHLORODIBROMOMETHANE	5.953	129	25225	4.8227353	ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	23969	4.8090723	ppb		97
68) CHLOROBENZENE	6.458	112	69440	4.9753483	ppb		97
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	22993	5.1613762	ppb	#	100
70) ETHYLBENZENE	6.452	106	41613	5.1496103	ppb		99
71) M&P-XYLENE	6.549	106	96947	10.2970746	ppb		99
72) O-XYLENE	6.860	106	46413	4.9295721	ppb		98
73) STYRENE	6.896	104	72017	4.9730179	ppb		100
74) BROMOFORM	6.939	173	16374	4.7289986	ppb		98
75) ISOPROPYLBENZENE	7.072	105	123138	4.9663503	ppb		97
77) BROMOBENZENE	7.389	77	47765	5.1070099	ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	32190	5.0816077	ppb		98
79) 1,2,3-TRICHLOROPROPANE	7.547	110	9098	4.7896002	ppb		86
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	9594	5.1911451	ppb		93
81) N-PROPYLBENZENE	7.371	91	135287	4.9279582	ppb		100
82) 4-ETHYLTOLUENE	7.450	105	116186	5.1185711	ppb		100
83) 2-CHLOROTOLUENE	7.510	91	86852	5.1585710	ppb		97
84) 4-CHLOROTOLUENE	7.632	91	80294	4.9735358	ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	95864	5.1479408	ppb		100
86) TERT-BUTYLBENZENE	7.754	119	82687	5.0473647	ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	93406	5.0417519	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	122195	5.0819232	ppb		98
89) 1,3-DICHLOROBENZENE	8.088	146	49436	4.9299228	ppb		98
90) P-ISOPROPYLTOLUENE	7.991	119	99418	5.0287401	ppb		99
91) DICYCLOPENTADIENE	8.003	66	106592	5.2269863	ppb		98
93) 1,4-DICHLOROBENZENE	8.155	146	45356	4.7390028	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	85640	4.7637937	ppb		97
95) 1,2-DICHLOROBENZENE	8.484	146	45653	4.7068516	ppb		98
96) N-BUTYLBENZENE	8.320	91	87842	4.6980583	ppb		98
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	7604	4.6212132	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_07.D
Acq On : 21 Feb 2017 4:07 pm
Operator : 605
Sample : STD VMS 5 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:35:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.676	180	27073	4.7983141	ppb	98
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	11419	4.6262153	ppb	98
100)	NAPHTHALENE	9.944	128	90704	4.6710918	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	26463	4.8308026	ppb	100
102)	1-METHYLNAPHTHALENE	10.759	142	39246	4.9758033	ppb	99
103)	2-METHYLNAPHTHALENE	10.875	142	35505	4.9079019	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
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Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
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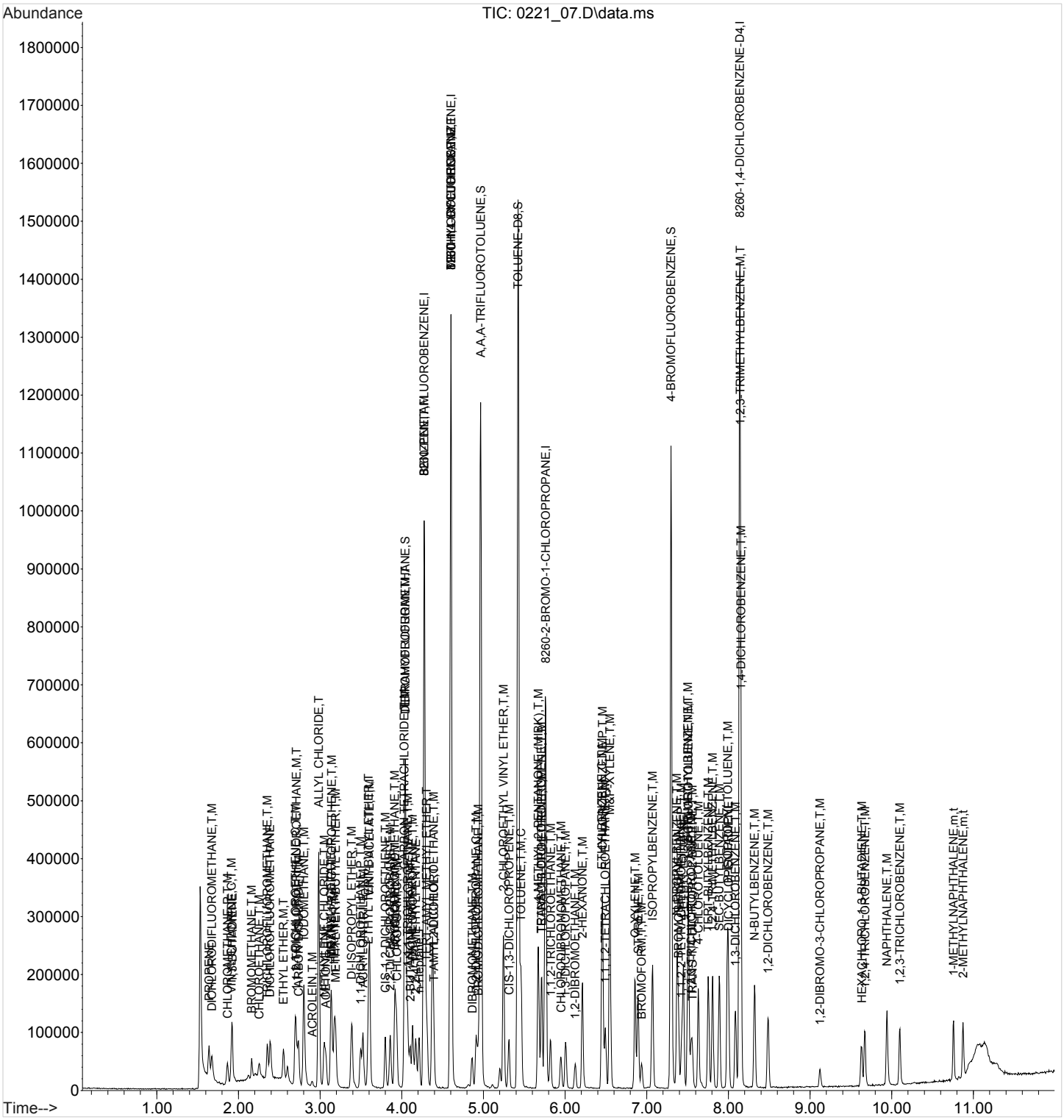


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_08.D
Acq On : 21 Feb 2017 4:30 pm
Operator : 605
Sample : STD VMS 10 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:36:12 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	425566	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	682756	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	112227	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	293003	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	232631	44.0823101	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 110.21%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	407040	43.5601255	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.90%				
58) TOLUENE-D8	5.424	98	871449	43.1509454	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.88%				
76) 4-BROMOFLUOROBENZENE	7.297	95	335624	43.1010367	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.75%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-2433187m	48.6066301	ppm		
3) LRH (C5-C8)	4.000	TIC	-1562644m	Below Cal			
4) PROPENE	1.640	41	54776	10.9016542	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	64319	10.5116572	ppb		98
6) CHLOROMETHANE	1.865	50	73716	10.6240673	ppb		99
7) VINYL CHLORIDE	1.913	62	69956	10.2929462	ppb		99
8) 1,3-BUTADIENE	1.926	39	54323	11.0937247	ppb		95
9) BROMOMETHANE	2.163	94	24232	10.4897588	ppb		98
10) CHLOROETHANE	2.254	64	40243	10.2118136	ppb		98
11) TRICHLOROFLUOROMETHANE	2.358	101	89020	10.6479669	ppb	#	98
12) DICHLOROFLUOROMETHANE	2.388	67	110919	10.3540599	ug/l		99
13) ETHYL ETHER	2.552	59	42431	10.1477785	ppb		97
14) ACROLEIN	2.905	56	19969	35.3318187	ppb		89
15) 1,1-DICHLOROETHENE	2.698	96	52789	10.2720021	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	53078	10.5575550	ppb		99
17) ACETONE	3.069	43	101568	50.0404906	ppb		99
18) IODOMETHANE	2.802	142	389114	52.5157595	ppb		100
19) CARBON DISULFIDE	2.735	76	173155	10.8085203	ppb		100
20) ALLYL CHLORIDE	2.984	76	155076	55.0297304	ppb		99
21) METHYLENE CHLORIDE	3.051	84	51855	10.1300017	ppb		95
22) METHYL ACETATE	3.130	43	205115	52.2241408	ppb	#	99
23) ACRYLONITRILE	3.526	53	111390	51.5167636	ppb		99
24) n-HEXANE	3.173	56	42400	10.6219644	ppb		99
25) TRANS-1,2-DICHLOROETHENE	3.142	96	55048	10.4359098	ppb		99
26) METHYL TERT-BUTYL ETHER	3.191	73	151384	10.2641419	ppb		99
27) 1,1-DICHLOROETHANE	3.495	63	102763	10.2891804	ppb		98
28) VINYL ACETATE	3.605	43	441721	51.8086064	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	159096	10.0245867	ppb		98
30) ETHYL TERT-BUTYL ETHER	3.593	59	148752	10.2283978	ppb		98
31) 2,2-DICHLOROPROPANE	3.860	77	92407	10.4610897	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	60793	10.2777942	ppb		99
33) 2-BUTANONE (MEK)	4.104	43	138086	58.0827265	ppb		93
34) BROMOCHLOROMETHANE	3.915	130	31164	11.2071439	ppb		98
35) TETRAHYDROFURAN	4.043	42	19612	11.0540058	ppb		88

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_08.D
Acq On : 21 Feb 2017 4:30 pm
Operator : 605
Sample : STD VMS 10 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:36:12 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) CHLOROFORM	3.939	83	101250	10.5477432 ppb		99
37) CYCLOHEXANE	3.921	84	85659	10.7273265 ppb		99
39) 1,1,1-TRICHLOROETHANE	4.073	97	87030	10.3056869 ppb		100
40) CARBON TETRACHLORIDE	4.037	117	80505	10.6216914 ppb		96
41) 1,1-DICHLOROPROPENE	4.134	75	76799	10.1592757 ppb		98
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	144733	10.8943544 ppb		98
43) n-Heptane	4.213	71	39091	10.5905608 ppb		99
44) BENZENE	4.280	78	211781	10.2618297 ppb		96
45) TERT-AMYL METHYL ETHER	4.304	73	147901	10.0793673 ppb		96
46) 1,2-DICHLOROETHANE	4.390	62	70605	10.1223674 ppb		99
47) T-AMYL ALCOHOL	4.390	59	28877	54.4643798 ppb		99
49) TRICHLOROETHENE	4.602	130	58459	10.1799792 ppb	#	99
50) METHYL CYCLOHEXANE	4.602	83	96273	10.7196186 ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	38415	10.2925544 ppb		98
52) DIBROMOMETHANE	4.864	93	35512	10.1180144 ppb		99
53) BROMODICHLOROMETHANE	4.937	83	71941	10.0202380 ppb		96
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	180485	50.4996734 ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	79416	9.9005363 ppb		100
57) 4-METHYL-2-PENTANONE (...	5.673	43	262406	50.0437287 ppb		100
59) TOLUENE	5.460	91	228197	10.2064271 ppb		100
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	73770	10.0624220 ppb		99
62) 1,1,2-TRICHLOROETHANE	5.819	97	47188	10.3005284 ppb		97
63) TETRACHLOROETHENE	5.716	164	44877	10.3721860 ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	78915	9.9141167 ppb		99
65) 2-HEXANONE	6.215	58	113289	51.0693496 ppb		99
66) CHLORODIBROMOMETHANE	5.953	129	52153	9.9072725 ppb		100
67) 1,2-DIBROMOETHANE	6.123	107	50955	10.1580598 ppb		99
68) CHLOROBENZENE	6.458	112	147425	10.4953635 ppb		99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	46340	10.3356662 ppb		99
70) ETHYLBENZENE	6.452	106	84165	10.3487867 ppb		97
71) M&P-XYLENE	6.549	106	201015	21.2139000 ppb		100
72) O-XYLENE	6.859	106	98328	10.3767023 ppb		100
73) STYRENE	6.890	104	151631	10.4036460 ppb		99
74) BROMOFORM	6.939	173	35062	10.0615213 ppb		99
75) ISOPROPYLBENZENE	7.072	105	259999	10.4190830 ppb		99
77) BROMOBENZENE	7.389	77	98604	10.4752409 ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	66634	10.4517404 ppb		98
79) 1,2,3-TRICHLOROPROPANE	7.547	110	18945	9.9097000 ppb		91
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	18831	10.1239364 ppb	#	94
81) N-PROPYLBENZENE	7.370	91	279307	10.1089334 ppb		100
82) 4-ETHYLTOLUENE	7.450	105	237870	10.4123122 ppb		100
83) 2-CHLOROTOLUENE	7.510	91	177131	10.4533798 ppb		99
84) 4-CHLOROTOLUENE	7.632	91	166343	10.2376259 ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	199487	10.6440073 ppb		100
86) TERT-BUTYLBENZENE	7.754	119	173139	10.5011032 ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	196440	10.5353554 ppb		99
88) SEC-BUTYLBENZENE	7.888	105	251595	10.3965497 ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	102876	10.1935024 ppb		99
90) P-ISOPROPYLTOLUENE	7.991	119	207246	10.4158063 ppb		99
91) DICYCLOPENTADIENE	8.003	66	216519	10.5495838 ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	95254	10.2451704 ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	181511	10.3935278 ppb		100
95) 1,2-DICHLOROBENZENE	8.490	146	96979	10.2925417 ppb		98
96) N-BUTYLBENZENE	8.319	91	185428	10.2088130 ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	15685	9.8125566 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_08.D
Acq On : 21 Feb 2017 4:30 pm
Operator : 605
Sample : STD VMS 10 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:36:12 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

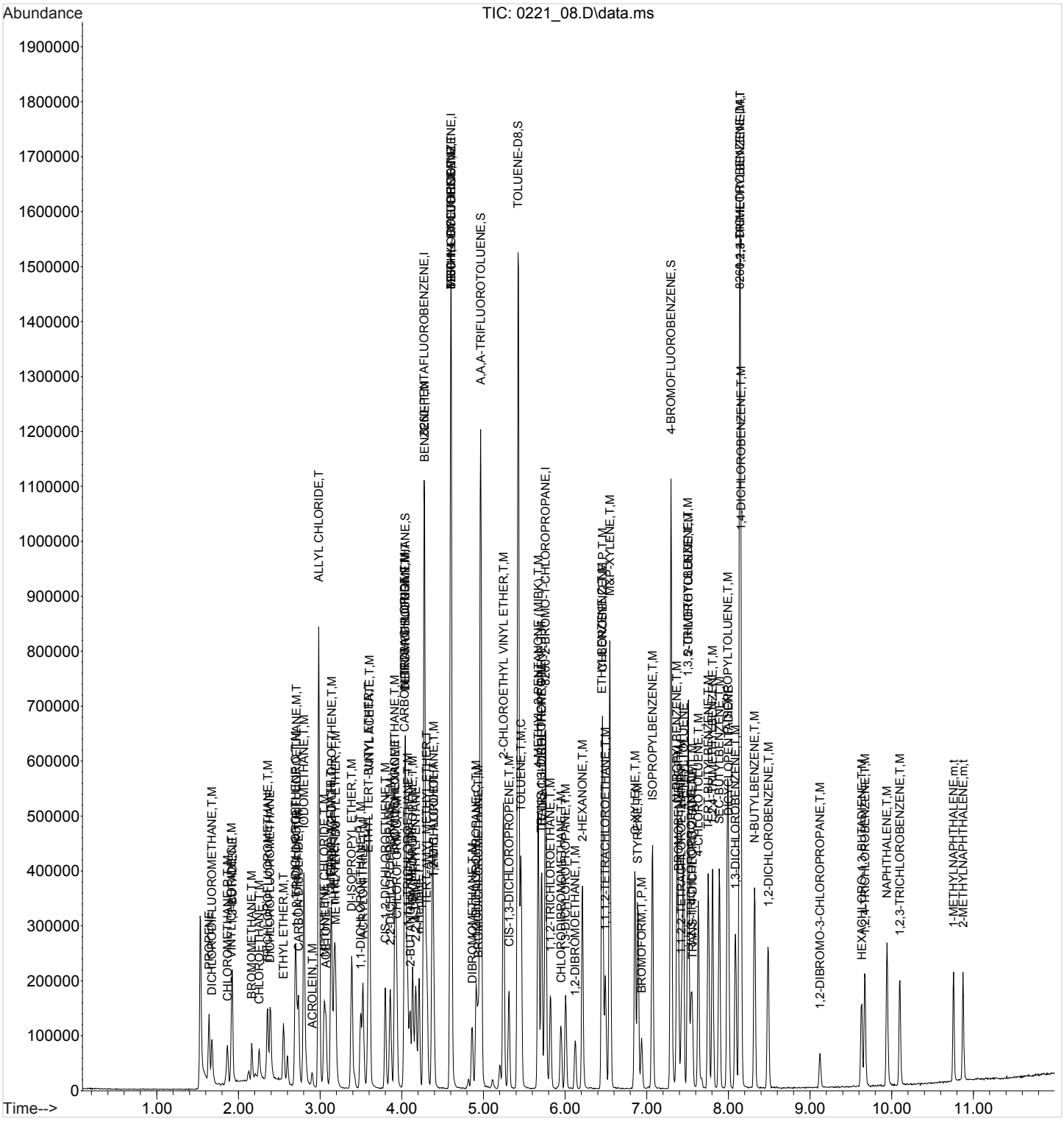
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.676	180	56895	10.3803056	ppb	100
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	24658	10.2834625	ppb	98
100)	NAPHTHALENE	9.944	128	189808	10.0621370	ppb	98
101)	1,2,3-TRICHLOROBENZENE	10.102	180	54050	10.1568646	ppb	99
102)	1-METHYLNAPHTHALENE	10.759	142	78455	10.2393451	ppb	97
103)	2-METHYLNAPHTHALENE	10.875	142	68737	9.7809418	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_08.D
Acq On : 21 Feb 2017 4:30 pm
Operator : 605
Sample : STD VMS 10 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:36:12 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_09.D
Acq On : 21 Feb 2017 4:53 pm
Operator : 605
Sample : MSTD VMS 25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:29:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	429371	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	684075	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	114319	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.137	152	298718	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	239803	45.0386728	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.60%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	421307	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%				
58) TOLUENE-D8	5.424	98	910547	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%				
76) 4-BROMOFLUOROBENZENE	7.298	95	356943	45.0000000	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%				
Target Compounds				Qvalue			
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	-503429m	9.9676453	ppm		
3) LRH (C5-C8)	4.000	TIC	518621m	2.4116799	ppm		
4) PROPENE	1.640	41	126846	25.0214849	ppb		100
5) DICHLORODIFLUOROMETHANE	1.676	85	154471	25.0214849	ppb		100
6) CHLOROMETHANE	1.865	50	175166	25.0214849	ppb		100
7) VINYL CHLORIDE	1.914	62	171579	25.0214849	ppb		100
8) 1,3-BUTADIENE	1.926	39	123619	25.0214849	ppb		100
9) BROMOMETHANE	2.163	94	58318	25.0214849	ppb		100
10) CHLOROETHANE	2.254	64	99487	25.0214849	ppb		100
11) TRICHLOROFLUOROMETHANE	2.358	101	211057	25.0214849	ppb		100
12) DICHLOROFLUOROMETHANE	2.388	67	270442	25.0214849	ug/l		100
13) ETHYL ETHER	2.552	59	105558	25.0214849	ppb		100
14) ACROLEIN	2.905	56	71341	125.1074246	ppb		100
15) 1,1-DICHLOROETHENE	2.698	96	129738	25.0214849	ppb		100
16) 1,1,2-TRICHLOROTRIFLUO...	2.711	101	126920	25.0214849	ppb		100
17) ACETONE	3.070	43	256203	125.1074246	ppb		100
18) IODOMETHANE	2.802	142	935268	125.1074246	ppb		100
19) CARBON DISULFIDE	2.735	76	404434	25.0214849	ppb		100
20) ALLYL CHLORIDE	2.984	76	355710	125.1074246	ppb		100
21) METHYLENE CHLORIDE	3.051	84	129229	25.0214849	ppb		100
22) METHYL ACETATE	3.130	43	495764	125.1074246	ppb	#	100
23) ACRYLONITRILE	3.526	53	272927	125.1074246	ppb		100
24) n-HEXANE	3.173	56	100772	25.0214849	ppb		100
25) TRANS-1,2-DICHLOROETHENE	3.143	96	133165	25.0214849	ppb		100
26) METHYL TERT-BUTYL ETHER	3.191	73	372337	25.0214849	ppb		100
27) 1,1-DICHLOROETHANE	3.495	63	252136	25.0214849	ppb		100
28) VINYL ACETATE	3.605	43	1076563	125.1490416	ppb		100
29) DI-ISOPROPYL ETHER	3.386	45	400656	25.0214849	ppb		100
30) ETHYL TERT-BUTYL ETHER	3.593	59	367142	25.0214849	ppb		100
31) 2,2-DICHLOROPROPANE	3.860	77	223001	25.0214849	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.800	96	149325	25.0214849	ppb		100
33) 2-BUTANONE (MEK)	4.104	43	300090	125.1074246	ppb		100
34) BROMOCHLOROMETHANE	3.915	130	70200	25.0214849	ppb		100
35) TETRAHYDROFURAN	4.043	42	44668	24.9533308	ppb		100

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_09.D
Acq On : 21 Feb 2017 4:53 pm
Operator : 605
Sample : MSTD VMS 25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:29:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	242334	25.0214849	ppb		100
37) CYCLOHEXANE	3.921	84	201586	25.0214849	ppb		100
39) 1,1,1-TRICHLOROETHANE	4.073	97	213192	25.0214849	ppb		100
40) CARBON TETRACHLORIDE	4.037	117	191341	25.0214849	ppb		100
41) 1,1-DICHLOROPROPENE	4.134	75	190841	25.0214849	ppb		100
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	349904	26.1046008	ppb		98
43) n-Heptane	4.213	71	93183	25.0214849	ppb		100
44) BENZENE	4.280	78	521004	25.0214849	ppb		100
45) TERT-AMYL METHYL ETHER	4.304	73	370439	25.0214849	ppb		100
46) 1,2-DICHLOROETHANE	4.390	62	176089	25.0214849	ppb		100
47) T-AMYL ALCOHOL	4.396	59	66925	125.1074246	ppb		100
49) TRICHLOROETHENE	4.603	130	143841	25.0000000	ppb	#	100
50) METHYL CYCLOHEXANE	4.603	83	224959	25.0000000	ppb		100
51) 1,2-DICHLOROPROPANE	4.913	62	93488	25.0000000	ppb		100
52) DIBROMOMETHANE	4.858	93	87914	25.0000000	ppb		100
53) BROMODICHLOROMETHANE	4.937	83	179836	25.0000000	ppb		100
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	447611	125.0000000	ppb		100
56) CIS-1,3-DICHLOROPROPENE	5.314	75	200922	25.0000000	ppb		100
57) 4-METHYL-2-PENTANONE (...	5.673	43	656708	125.0000000	ppb		100
59) TOLUENE	5.460	91	560034	25.0000000	ppb		100
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	183635	25.0000000	ppb		100
62) 1,1,2-TRICHLOROETHANE	5.819	97	116663	25.0000000	ppb		100
63) TETRACHLOROETHENE	5.716	164	110183	25.0000000	ppb		100
64) 1,3-DICHLOROPROPANE	6.008	76	202706	25.0000000	ppb		100
65) 2-HEXANONE	6.215	58	282461	125.0000000	ppb		100
66) CHLORODIBROMOMETHANE	5.947	129	134056	25.0000000	ppb		100
67) 1,2-DIBROMOETHANE	6.123	107	127743	25.0000000	ppb		100
68) CHLOROBENZENE	6.458	112	357713	25.0000000	ppb		100
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	114177	25.0000000	ppb		100
70) ETHYLBENZENE	6.452	106	207111	25.0000000	ppb		100
71) M&P-XYLENE	6.549	106	482613	50.0000000	ppb		100
72) O-XYLENE	6.853	106	241312	25.0000000	ppb		100
73) STYRENE	6.890	104	371162	25.0000000	ppb		100
74) BROMOFORM	6.939	173	88743	25.0000000	ppb		100
75) ISOPROPYLBENZENE	7.072	105	635482	25.0000000	ppb		100
77) BROMOBENZENE	7.383	77	239713	25.0000000	ppb		100
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	162356	25.0000000	ppb		100
79) 1,2,3-TRICHLOROPROPANE	7.547	110	48685	25.0000000	ppb		100
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	47381	25.0068612	ppb		100
81) N-PROPYLBENZENE	7.371	91	703619	25.0000000	ppb		100
82) 4-ETHYLTOLUENE	7.450	105	581773	25.0000000	ppb		100
83) 2-CHLOROTOLUENE	7.511	91	431518	25.0000000	ppb		100
84) 4-CHLOROTOLUENE	7.632	91	413777	25.0000000	ppb		100
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	477277	25.0000000	ppb		100
86) TERT-BUTYLBENZENE	7.754	119	419876	25.0000000	ppb		100
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	474834	25.0000000	ppb		100
88) SEC-BUTYLBENZENE	7.888	105	616274	25.0000000	ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	257011	25.0000000	ppb		100
90) P-ISOPROPYLTOLUENE	7.991	119	506424	24.9861852	ppb		100
91) DICYCLOPENTADIENE	8.003	66	522663	25.0000000	ppb		100
93) 1,4-DICHLOROBENZENE	8.155	146	236970	25.0000000	ppb		100
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	445112	25.0000000	ppb		100
95) 1,2-DICHLOROBENZENE	8.484	146	240151	25.0000000	ppb		100
96) N-BUTYLBENZENE	8.320	91	462945	25.0000000	ppb		100
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	40741	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_09.D
Acq On : 21 Feb 2017 4:53 pm
Operator : 605
Sample : MSTD VMS 25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:29:09 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.670	180	139699	25.0000000	ppb	100
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	61115	25.0000000	ppb	100
100)	NAPHTHALENE	9.944	128	480788	25.0000000	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	135633	25.0000000	ppb	100
102)	1-METHYLNAPHTHALENE	10.759	142	196053	25.0978038	ppb	100
103)	2-METHYLNAPHTHALENE	10.875	142	179118	25.0000000	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_09.D
Acq On : 21 Feb 2017 4:53 pm
Operator : 605
Sample : MSTD VMS 25 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 9 Sample Multiplier: 1
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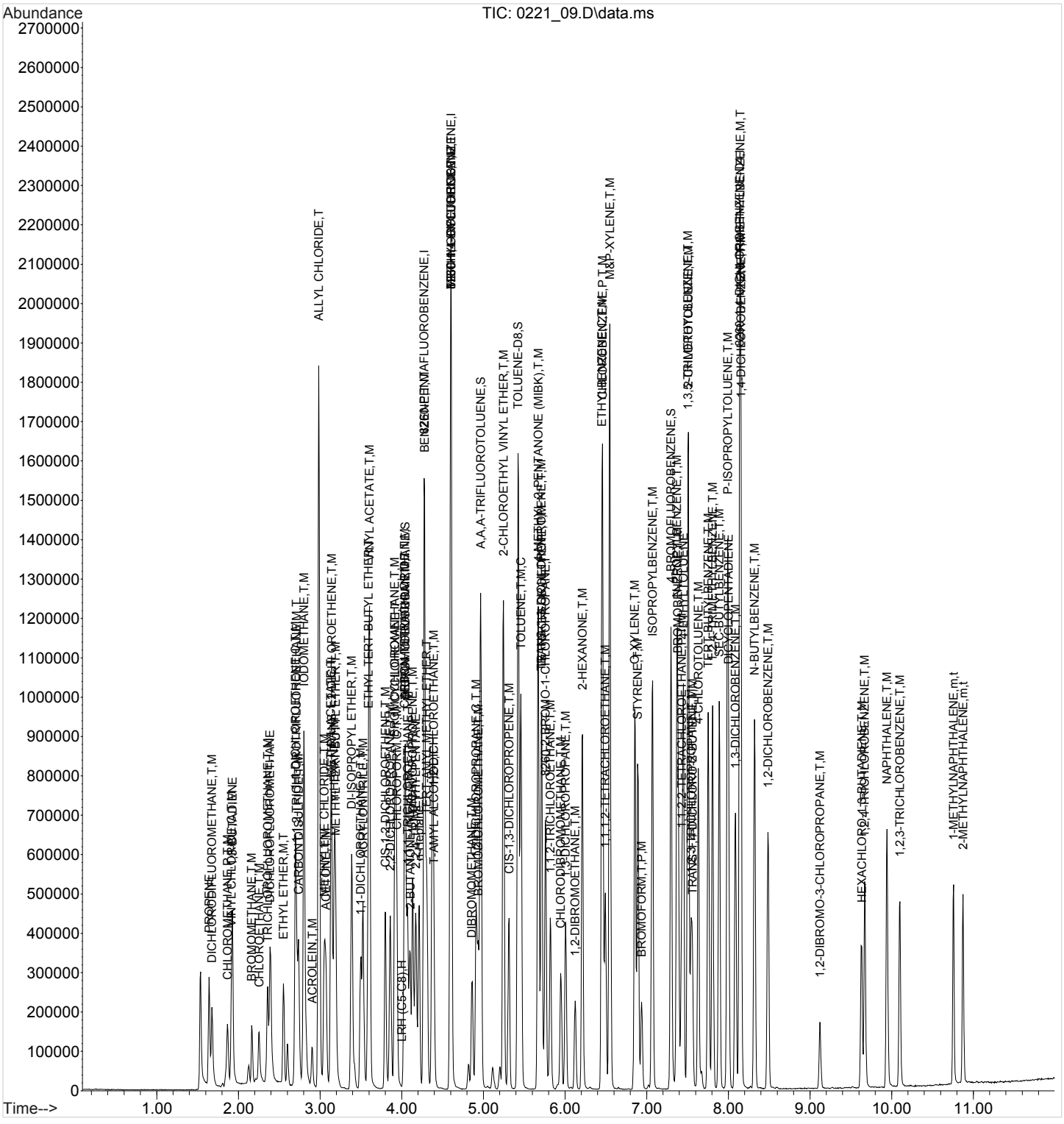
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_10.D
Acq On : 21 Feb 2017 5:15 pm
Operator : 605
Sample : STD VMS 40 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:37:16 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	403858	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	650914	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	108495	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	287354	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	232833	46.4921387	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.23%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	411384	46.1786616	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.45%				
58) TOLUENE-D8	5.424	98	899052	46.6955037	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 116.74%#				
76) 4-BROMOFLUOROBENZENE	7.298	95	353043	46.8975270	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 117.24%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	6286689m	Below Cal			
3) LRH (C5-C8)	4.000	TIC	6540423m	32.3354942	ppm		
4) PROPENE	1.640	41	195024	40.9004778	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	237837	40.9590201	ppb		100
6) CHLOROMETHANE	1.865	50	291928	44.3346248	ppb		99
7) VINYL CHLORIDE	1.914	62	262043	40.6280079	ppb		100
8) 1,3-BUTADIENE	1.926	39	191327	41.1725849	ppb		97
9) BROMOMETHANE	2.163	94	86724	39.5597717	ppb		100
10) CHLOROETHANE	2.248	64	147730	39.5020342	ppb		98
11) TRICHLOROFLUOROMETHANE	2.352	101	329504	41.5315393	ppb		99
12) DICHLOROFLUOROMETHANE	2.388	67	417228	41.0408555	ug/l		100
13) ETHYL ETHER	2.552	59	166039	41.8442756	ppb		98
14) ACROLEIN	2.899	56	75082	139.9857222	ppb		98
15) 1,1-DICHLOROETHENE	2.698	96	197297	40.4548300	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.711	101	198915	41.6921766	ppb		99
17) ACETONE	3.069	43	371986	193.1209934	ppb		100
18) IODOMETHANE	2.802	142	1430942	203.5040506	ppb		100
19) CARBON DISULFIDE	2.735	76	626165	41.1868168	ppb		99
20) ALLYL CHLORIDE	2.984	76	543198	203.1183640	ppb		100
21) METHYLENE CHLORIDE	3.051	84	200318	41.2360531	ppb		99
22) METHYL ACETATE	3.130	43	774902	207.9021099	ppb	#	100
23) ACRYLONITRILE	3.526	53	416086	202.7793395	ppb		99
24) n-HEXANE	3.173	56	157272	41.5172548	ppb		97
25) TRANS-1,2-DICHLOROETHENE	3.142	96	202282	40.4095713	ppb		100
26) METHYL TERT-BUTYL ETHER	3.191	73	574470	41.0438656	ppb		99
27) 1,1-DICHLOROETHANE	3.495	63	384695	40.5881055	ppb		99
28) VINYL ACETATE	3.605	43	1669413	206.3269166	ppb		100
29) DI-ISOPROPYL ETHER	3.386	45	610190	40.5145046	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.593	59	558195	40.4453847	ppb		100
31) 2,2-DICHLOROPROPANE	3.860	77	347222	41.4207084	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	226090	40.2778174	ppb		98
33) 2-BUTANONE (MEK)	4.098	43	513645	227.6662445	ppb		95
34) BROMOCHLOROMETHANE	3.915	130	108780	41.2219982	ppb		99
35) TETRAHYDROFURAN	4.043	42	67778	40.2554592	ppb		96

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_10.D
Acq On : 21 Feb 2017 5:15 pm
Operator : 605
Sample : STD VMS 40 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:37:16 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	368941	40.5004331	ppb		99
37) CYCLOHEXANE	3.921	84	307022	40.5159687	ppb		99
39) 1,1,1-TRICHLOROETHANE	4.067	97	333209	41.5779351	ppb		99
40) CARBON TETRACHLORIDE	4.037	117	298329	41.4767320	ppb		99
41) 1,1-DICHLOROPROPENE	4.134	75	291643	40.6534092	ppb		99
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	549912	43.6179615	ppb		99
43) n-Heptane	4.213	71	146285	41.7618958	ppb		99
44) BENZENE	4.274	78	801488	40.9235278	ppb		100
45) TERT-AMYL METHYL ETHER	4.304	73	574450	41.2527238	ppb		99
46) 1,2-DICHLOROETHANE	4.390	62	262919	39.7197808	ppb		99
47) T-AMYL ALCOHOL	4.396	59	105790	210.2535511	ppb		99
49) TRICHLOROETHENE	4.603	130	220219	40.2246439	ppb	#	100
50) METHYL CYCLOHEXANE	4.603	83	343800	40.1534268	ppb		98
51) 1,2-DICHLOROPROPANE	4.913	62	144172	40.5177359	ppb		98
52) DIBROMOMETHANE	4.858	93	136898	40.9127977	ppb		99
53) BROMODICHLOROMETHANE	4.937	83	274982	40.1742472	ppb		100
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	696582	204.4379968	ppb		99
56) CIS-1,3-DICHLOROPROPENE	5.314	75	313555	41.0021239	ppb		99
57) 4-METHYL-2-PENTANONE (...	5.673	43	986115	197.2628837	ppb		99
59) TOLUENE	5.460	91	856344	40.1748238	ppb		98
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	285295	40.8186668	ppb		99
62) 1,1,2-TRICHLOROETHANE	5.819	97	182807	41.2770245	ppb		100
63) TETRACHLOROETHENE	5.716	164	167913	40.1437953	ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	308120	40.0407300	ppb		98
65) 2-HEXANONE	6.209	58	426082	198.6796568	ppb		99
66) CHLORODIBROMOMETHANE	5.947	129	213850	42.0215144	ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	204687	42.2086878	ppb		99
68) CHLOROBENZENE	6.458	112	543045	39.9898520	ppb		98
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	177148	40.8701590	ppb		100
70) ETHYLBENZENE	6.452	106	317515	40.3840418	ppb		100
71) M&P-XYLENE	6.549	106	737604	80.5198476	ppb		99
72) O-XYLENE	6.853	106	377780	41.2390588	ppb		99
73) STYRENE	6.890	104	574525	40.7750147	ppb		100
74) BROMOFORM	6.939	173	140515	41.7097208	ppb		100
75) ISOPROPYLBENZENE	7.072	105	974523	40.3959235	ppb		100
77) BROMOBENZENE	7.389	77	374255	41.1267816	ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	248298	40.2859473	ppb		98
79) 1,2,3-TRICHLOROPROPANE	7.547	110	74444	40.2794218	ppb		98
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	75672	42.0822416	ppb		98
81) N-PROPYLBENZENE	7.371	91	1082441	40.5242865	ppb		99
82) 4-ETHYLTOLUENE	7.450	105	906183	41.0309006	ppb		99
83) 2-CHLOROTOLUENE	7.510	91	656293	40.0633773	ppb		98
84) 4-CHLOROTOLUENE	7.632	91	638412	40.6427791	ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	738272	40.7469018	ppb		99
86) TERT-BUTYLBENZENE	7.754	119	649029	40.7184983	ppb		100
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	744342	41.2932835	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	961661	41.1052089	ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	397461	40.7372315	ppb		100
90) P-ISOPROPYLTOLUENE	7.991	119	793483	41.2507639	ppb		99
91) DICYCLOPENTADIENE	8.003	66	796806	40.1586903	ppb		100
93) 1,4-DICHLOROBENZENE	8.155	146	368352	40.3974376	ppb	#	63
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	701872	40.9800769	ppb		100
95) 1,2-DICHLOROBENZENE	8.484	146	374287	40.5046141	ppb		100
96) N-BUTYLBENZENE	8.320	91	726585	40.7888240	ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	63760	40.6724916	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_10.D
Acq On : 21 Feb 2017 5:15 pm
Operator : 605
Sample : STD VMS 40 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:37:16 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 1,2,4-TRICHLOROBENZENE	9.670	180	226193	42.0794464	ppb	100
99) HEXACHLORO-1,3-BUTADIENE	9.634	225	97341	41.3934993	ppb	98
100) NAPHTHALENE	9.944	128	790167	42.7119523	ppb	100
101) 1,2,3-TRICHLOROBENZENE	10.102	180	222583	42.6491891	ppb	100
102) 1-METHYLNAPHTHALENE	10.759	142	329994	43.9149524	ppb	98
103) 2-METHYLNAPHTHALENE	10.875	142	294631	42.7487444	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_10.D
Acq On : 21 Feb 2017 5:15 pm
Operator : 605
Sample : STD VMS 40 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 10 Sample Multiplier: 1
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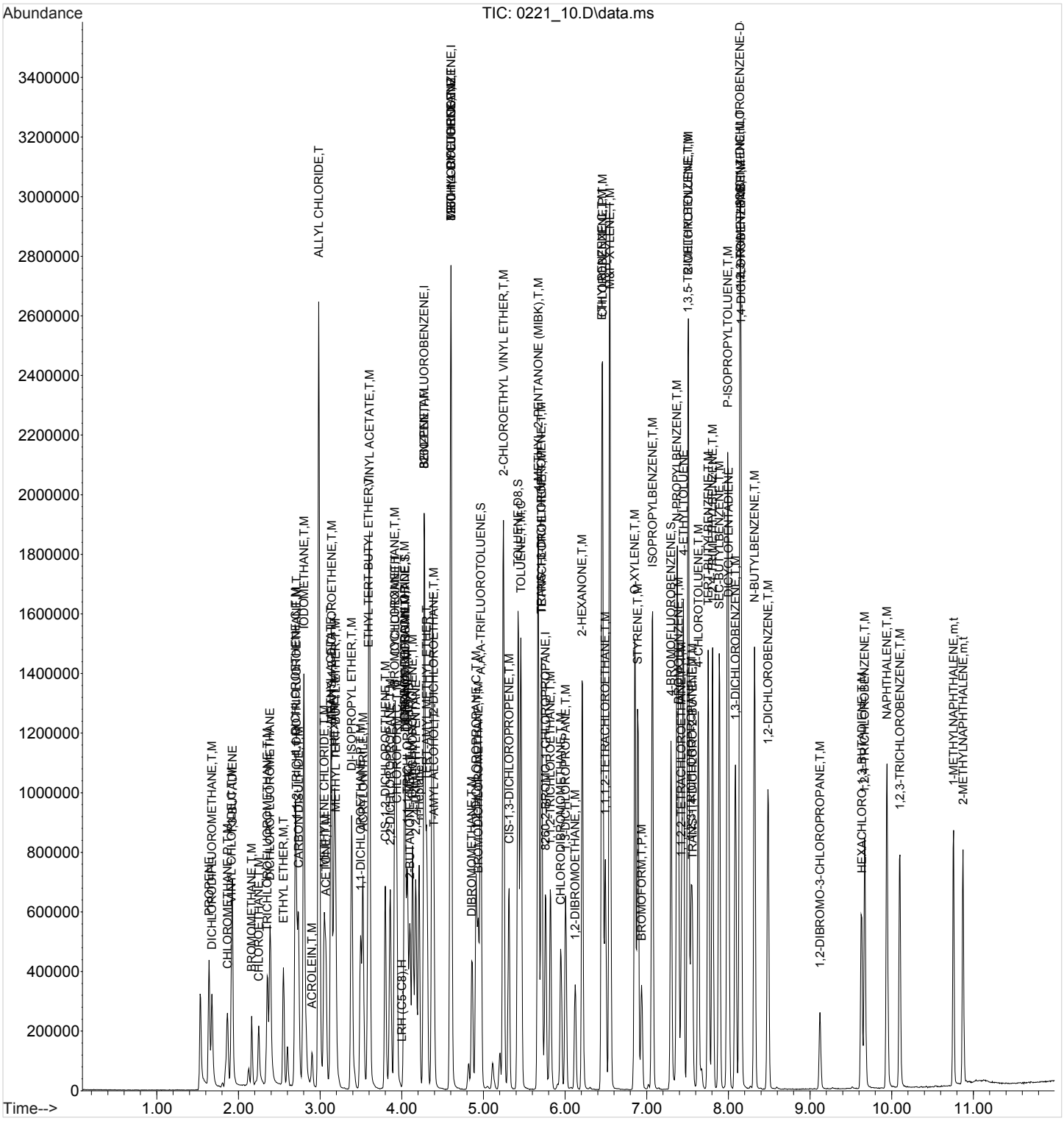
Quant Time: Feb 22 13:37:16 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_11.D
Acq On : 21 Feb 2017 5:38 pm
Operator : 605
Sample : STD VMS 70 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:38:11 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	396886	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	635400	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	107028	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	285703	40.0000000	ppb		0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	228875	46.5046370	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.26%				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	406421	46.7354563	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 116.84%#				
58) TOLUENE-D8	5.424	98	903569	48.0759613	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 120.19%#				
76) 4-BROMOFLUOROBENZENE	7.297	95	353621	47.6181698	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.05%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	20032362m	Below Cal			
3) LRH (C5-C8)	4.000	TIC	19171664m	96.4487073	ppm		
4) PROPENE	1.640	41	347448	74.1469085	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	421396	73.8454021	ppb		100
6) CHLOROMETHANE	1.865	50	601620	92.9720616	ppb		100
7) VINYL CHLORIDE	1.913	62	479798	75.6962403	ppb		99
8) 1,3-BUTADIENE	1.926	39	338791	74.1868015	ppb		100
9) BROMOMETHANE	2.163	94	158257	73.4582057	ppb		98
10) CHLOROETHANE	2.242	64	271463	73.8625535	ppb		98
11) TRICHLOROFLUOROMETHANE	2.351	101	599932	76.9453316	ppb		100
12) DICHLOROFLUOROMETHANE	2.388	67	758798	75.9507465	ug/l		100
13) ETHYL ETHER	2.552	59	307037	78.7371280	ppb		98
14) ACROLEIN	2.899	56	178809	339.2346416	ppb		99
15) 1,1-DICHLOROETHENE	2.698	96	365261	76.2107286	ppb		100
16) 1,1,2-TRICHLOROTRIFLUO...	2.704	101	349731	74.5905956	ppb		99
17) ACETONE	3.069	43	731327	386.3468802	ppb		97
18) IODOMETHANE	2.802	142	2484071	359.4826565	ppb		100
19) CARBON DISULFIDE	2.735	76	1160394	77.6672314	ppb		100
20) ALLYL CHLORIDE	2.984	76	943683	359.0707839	ppb		98
21) METHYLENE CHLORIDE	3.051	84	375685	78.6944094	ppb		98
22) METHYL ACETATE	3.130	43	1430718	390.5971470	ppb	#	100
23) ACRYLONITRILE	3.526	53	797393	395.4357504	ppb		97
24) n-HEXANE	3.173	56	268668	72.1698949	ppb		99
25) TRANS-1,2-DICHLOROETHENE	3.142	96	372435	75.7077610	ppb		99
26) METHYL TERT-BUTYL ETHER	3.191	73	1071279	77.8836695	ppb		95
27) 1,1-DICHLOROETHANE	3.495	63	708821	76.0994864	ppb		97
28) VINYL ACETATE	3.605	43	3038961	382.1907169	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	1132873	76.5401985	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.592	59	1048082	77.2753893	ppb		98
31) 2,2-DICHLOROPROPANE	3.860	77	637570	77.3928913	ppb		99
32) CIS-1,2-DICHLOROETHENE	3.799	96	423396	76.7528014	ppb		99
33) 2-BUTANONE (MEK)	4.097	43	871819	393.2102398	ppb		99
34) BROMOCHLOROMETHANE	3.915	130	189855	73.2090777	ppb		97
35) TETRAHYDROFURAN	4.037	42	121461	73.4067165	ppb		99

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_11.D
Acq On : 21 Feb 2017 5:38 pm
Operator : 605
Sample : STD VMS 70 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:38:11 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) CHLOROFORM	3.939	83	675592	75.4657958	ppb		98
37) CYCLOHEXANE	3.921	84	549317	73.7636979	ppb		98
39) 1,1,1-TRICHLOROETHANE	4.067	97	606663	77.0294174	ppb		99
40) CARBON TETRACHLORIDE	4.031	117	553603	78.3195898	ppb		99
41) 1,1-DICHLOROPROPENE	4.134	75	532314	75.5050872	ppb		100
42) 2,2,4-TRIMETHYLPENTANE	4.170	57	966311	77.9923492	ppb		97
43) n-Heptane	4.213	71	265175	77.0328379	ppb		97
44) BENZENE	4.274	78	1479861	76.8882322	ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	1058691	77.3628618	ppb		99
46) 1,2-DICHLOROETHANE	4.389	62	487891	75.0016104	ppb		99
47) T-AMYL ALCOHOL	4.396	59	195159	394.6846327	ppb		99
49) TRICHLOROETHENE	4.602	130	415000	77.6536583	ppb	#	99
50) METHYL CYCLOHEXANE	4.602	83	604732	72.3529253	ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	267260	76.9439739	ppb		99
52) DIBROMOMETHANE	4.858	93	254308	77.8571495	ppb		99
53) BROMODICHLOROMETHANE	4.937	83	514008	76.9289423	ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	1257118	377.9564975	ppb		99
56) CIS-1,3-DICHLOROPROPENE	5.314	75	584654	78.3191472	ppb		99
57) 4-METHYL-2-PENTANONE (...	5.673	43	1816915	372.3306814	ppb		98
59) TOLUENE	5.460	91	1588027	76.3202888	ppb		99
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	528528	77.4656301	ppb		100
62) 1,1,2-TRICHLOROETHANE	5.819	97	342684	78.4371315	ppb		99
63) TETRACHLOROETHENE	5.716	164	302307	73.2646748	ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	576588	75.9556372	ppb		99
65) 2-HEXANONE	6.215	58	808743	382.2813071	ppb		96
66) CHLORODIBROMOMETHANE	5.947	129	404926	80.6585522	ppb		100
67) 1,2-DIBROMOETHANE	6.123	107	382920	80.0445845	ppb		99
68) CHLOROBENZENE	6.458	112	992287	74.0736242	ppb		100
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	332178	77.6878770	ppb	#	100
70) ETHYLBENZENE	6.452	106	576118	74.2795552	ppb		99
71) M&P-XYLENE	6.549	106	1373980	152.0450921	ppb		96
72) O-XYLENE	6.853	106	700335	77.4975419	ppb		97
73) STYRENE	6.890	104	1071170	77.0647742	ppb		99
74) BROMOFORM	6.938	173	269165	80.9926290	ppb		99
75) ISOPROPYLBENZENE	7.072	105	1772545	74.4826348	ppb		99
77) BROMOBENZENE	7.389	77	685436	76.3547991	ppb		100
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	465581	76.5751615	ppb		100
79) 1,2,3-TRICHLOROPROPANE	7.547	110	141880	77.8192464	ppb		97
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	140922	79.4428408	ppb		96
81) N-PROPYLBENZENE	7.370	91	1983145	75.2623763	ppb		99
82) 4-ETHYLTOLUENE	7.449	105	1646953	75.5942320	ppb		99
83) 2-CHLOROTOLUENE	7.510	91	1200870	74.3118537	ppb		97
84) 4-CHLOROTOLUENE	7.632	91	1193194	77.0026604	ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	1367604	76.5157557	ppb		100
86) TERT-BUTYLBENZENE	7.754	119	1194766	75.9841167	ppb		100
87) 1,2,4-TRIMETHYLBENZENE	7.808	105	1368863	76.9802278	ppb		99
88) SEC-BUTYLBENZENE	7.888	105	1781496	77.1919517	ppb		100
89) 1,3-DICHLOROBENZENE	8.088	146	734506	76.3140763	ppb		99
90) P-ISOPROPYLTOLUENE	7.991	119	1456208	76.7414667	ppb		99
91) DICYCLOPENTADIENE	8.003	66	1443775	73.7630347	ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	691210	76.2435738	ppb	#	34
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	1295191	76.0590884	ppb		99
95) 1,2-DICHLOROBENZENE	8.484	146	702170	76.4265881	ppb		100
96) N-BUTYLBENZENE	8.319	91	1349250	76.1815193	ppb		98
97) 1,2-DIBROMO-3-CHLOROPR...	9.122	157	125672	80.6294028	ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_11.D
Acq On : 21 Feb 2017 5:38 pm
Operator : 605
Sample : STD VMS 70 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:38:11 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

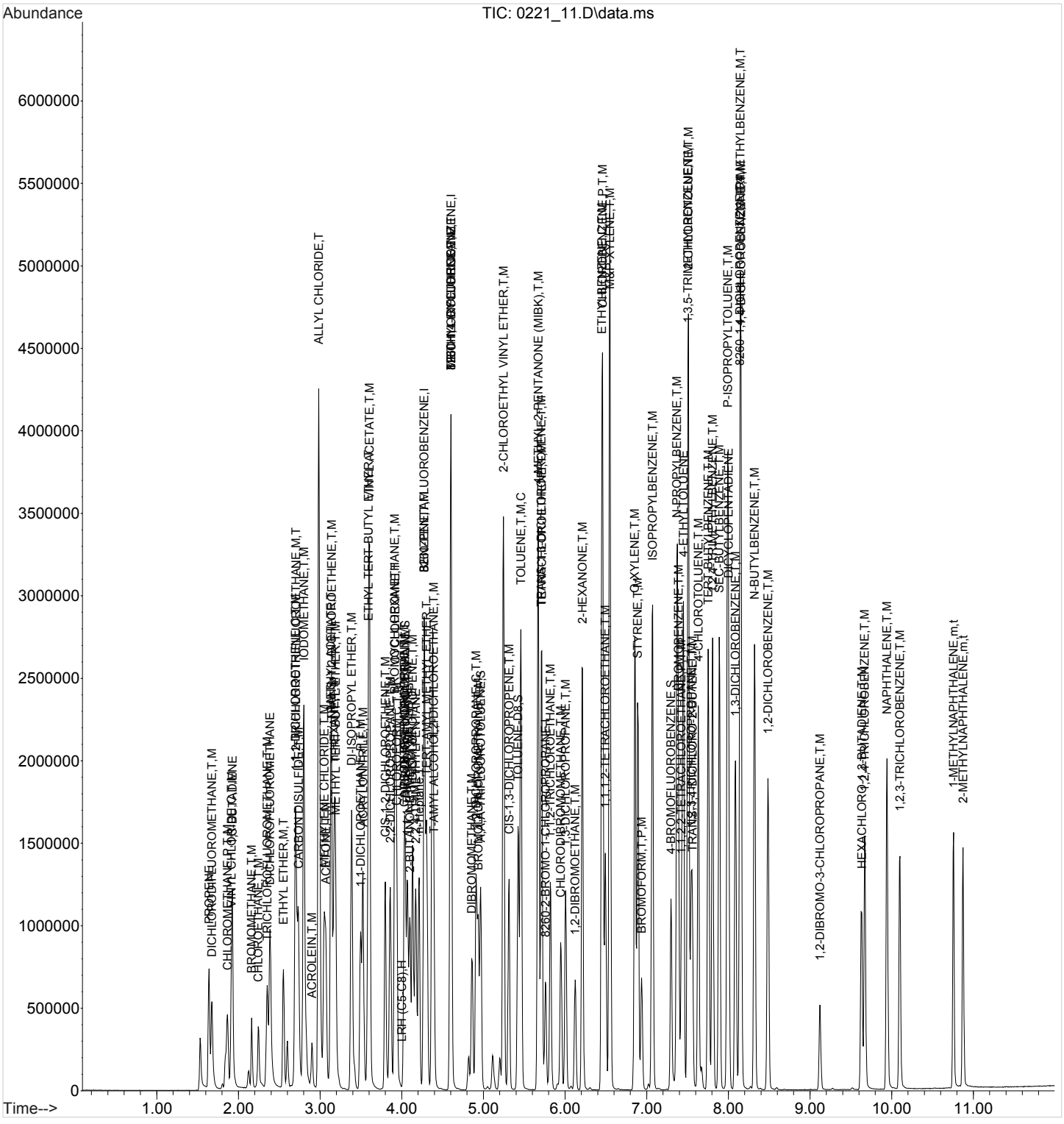
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.670	180	420579	78.6938671	ppb	98
99)	HEXACHLORO-1,3-BUTADIENE	9.633	225	182544	78.0739851	ppb	98
100)	NAPHTHALENE	9.944	128	1456864	79.2048896	ppb	100
101)	1,2,3-TRICHLOROBENZENE	10.102	180	402859	77.6379936	ppb	99
102)	1-METHYLNAPHTHALENE	10.759	142	611287	81.8189646	ppb	98
103)	2-METHYLNAPHTHALENE	10.875	142	564254	82.3421146	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_11.D
Acq On : 21 Feb 2017 5:38 pm
Operator : 605
Sample : STD VMS 70 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:38:11 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_12.D
Acq On : 21 Feb 2017 6:00 pm
Operator : 605
Sample : STD VMS 100 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:39:08 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	395786	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.602	114	639278	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.758	79	110492	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	284495	40.0000000	ppb	#	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	238817	48.6595952	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 121.65%#				
54) A,A,A-TRIFLUOROTOLUENE	4.967	146	422459	48.2850144	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 120.71%#				
58) TOLUENE-D8	5.424	98	935002	49.4466241	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 123.62%#				
76) 4-BROMOFLUOROBENZENE	7.297	95	371393	48.4434361	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 121.11%#				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	27718433m	Below Cal			
3) LRH (C5-C8)	4.000	TIC	25499875m	128.6411760	ppm		
4) PROPENE	1.640	41	440845	94.3397026	ppb		99
5) DICHLORODIFLUOROMETHANE	1.676	85	544829	95.7411452	ppb		100
6) CHLOROMETHANE	1.865	50	854631	132.4384805	ppb		100
7) VINYL CHLORIDE	1.914	62	631204	99.8598640	ppb		99
8) 1,3-BUTADIENE	1.926	39	440171	96.6543847	ppb		99
9) BROMOMETHANE	2.163	94	211394	98.3955358	ppb		98
10) CHLOROETHANE	2.242	64	355099	96.8876616	ppb		98
11) TRICHLOROFLUOROMETHANE	2.352	101	790216	101.6322214	ppb		100
12) DICHLOROFLUOROMETHANE	2.388	67	993825	99.7518913	ug/l		100
13) ETHYL ETHER	2.552	59	400447	102.9767667	ppb		99
14) ACROLEIN	2.899	56	312809	595.1074838	ppb		98
15) 1,1-DICHLOROETHENE	2.698	96	482368	100.9245103	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.710	101	460618	98.5136028	ppb		100
17) ACETONE	3.069	43	930750	493.0650263	ppb		99
18) IODOMETHANE	2.802	142	2990894	434.0305615	ppb		99
19) CARBON DISULFIDE	2.735	76	1536232	103.1085095	ppb		99
20) ALLYL CHLORIDE	2.984	76	1161373	443.1298594	ppb		98
21) METHYLENE CHLORIDE	3.051	84	494024	103.7703841	ppb		98
22) METHYL ACETATE	3.130	43	1797069	491.9773738	ppb	#	99
23) ACRYLONITRILE	3.526	53	993035	493.8253938	ppb		98
24) n-HEXANE	3.173	56	353451	95.2082751	ppb		99
25) TRANS-1,2-DICHLOROETHENE	3.142	96	494969	100.8958414	ppb		98
26) METHYL TERT-BUTYL ETHER	3.191	73	1396558	101.8141505	ppb		96
27) 1,1-DICHLOROETHANE	3.495	63	934914	100.6519434	ppb		98
28) VINYL ACETATE	3.605	43	3907629	492.8033859	ppb		99
29) DI-ISOPROPYL ETHER	3.386	45	1461399	99.0107876	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.593	59	1344610	99.4140181	ppb		99
31) 2,2-DICHLOROPROPANE	3.860	77	842221	102.5190600	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.799	96	564305	102.5809543	ppb		99
33) 2-BUTANONE (MEK)	4.098	43	1106569	500.4749450	ppb		99
34) BROMOCHLOROMETHANE	3.915	130	224131	86.6662842	ppb		100
35) TETRAHYDROFURAN	4.043	42	153166	92.8253656	ppb		99

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_12.D
Acq On : 21 Feb 2017 6:00 pm
Operator : 605
Sample : STD VMS 100 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:39:08 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) CHLOROFORM	3.939	83	891250	99.8321794 ppb		98
37) CYCLOHEXANE	3.921	84	733361	98.7512959 ppb		97
39) 1,1,1-TRICHLOROETHANE	4.073	97	827155	105.3176975 ppb		99
40) CARBON TETRACHLORIDE	4.037	117	737101	104.5693290 ppb		99
41) 1,1-DICHLOROPROPENE	4.134	75	714016	101.5597493 ppb		100
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	1278088	103.4430191 ppb		99
43) n-Heptane	4.213	71	354639	103.3082882 ppb		97
44) BENZENE	4.274	78	1962754	102.2610326 ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	1386976	101.6336688 ppb		99
46) 1,2-DICHLOROETHANE	4.390	62	645547	99.5132707 ppb		99
47) T-AMYL ALCOHOL	4.396	59	222782	451.8008910 ppb		96
49) TRICHLOROETHENE	4.602	130	546128	101.5700622 ppb	#	100
50) METHYL CYCLOHEXANE	4.602	83	797998	94.8969816 ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	345956	98.9963009 ppb		99
52) DIBROMOMETHANE	4.858	93	327611	99.6906445 ppb		99
53) BROMODICHLOROMETHANE	4.937	83	671647	99.9121751 ppb		99
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	1600368	478.2368987 ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	757472	100.8539843 ppb		99
57) 4-METHYL-2-PENTANONE (...	5.673	43	2268389	462.0289609 ppb		97
59) TOLUENE	5.460	91	2082910	99.4970214 ppb		97
60) TRANS-1,3-DICHLOROPROPENE	5.710	75	686338	99.9853922 ppb		99
62) 1,1,2-TRICHLOROETHANE	5.819	97	448422	99.4217405 ppb		99
63) TETRACHLOROETHENE	5.716	164	401750	94.3124188 ppb		99
64) 1,3-DICHLOROPROPANE	6.008	76	756157	96.4879243 ppb		99
65) 2-HEXANONE	6.209	58	1006711	460.9394898 ppb		95
66) CHLORODIBROMOMETHANE	5.947	129	535375	103.2997859 ppb		100
67) 1,2-DIBROMOETHANE	6.123	107	502821	101.8131530 ppb		100
68) CHLOROBENZENE	6.458	112	1288121	93.1428511 ppb		99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	438741	99.3933169 ppb	#	99
70) ETHYLBENZENE	6.452	106	760069	94.9243091 ppb		97
71) M&P-XYLENE	6.549	106	1790704	191.9474619 ppb		95
72) O-XYLENE	6.853	106	924840	99.1323215 ppb		95
73) STYRENE	6.890	104	1386644	96.6338007 ppb		100
74) BROMOFORM	6.939	173	354055	103.1963214 ppb		99
75) ISOPROPYLBENZENE	7.072	105	2333430	94.9771458 ppb		99
77) BROMOBENZENE	7.389	77	887984	95.8166856 ppb		100
78) 1,1,2,2-TETRACHLOROETHANE	7.425	83	600264	95.6316272 ppb		99
79) 1,2,3-TRICHLOROPROPANE	7.547	110	182759	97.0982023 ppb		98
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	182112	99.4445774 ppb		97
81) N-PROPYLBENZENE	7.370	91	2586468	95.0817447 ppb		99
82) 4-ETHYLTOLUENE	7.450	105	2127292	94.5803977 ppb		98
83) 2-CHLOROTOLUENE	7.510	91	1546478	92.6984390 ppb		97
84) 4-CHLOROTOLUENE	7.632	91	1549891	96.8863066 ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.504	105	1760624	95.4165484 ppb		99
86) TERT-BUTYLBENZENE	7.754	119	1566453	96.4992434 ppb		99
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	1762372	96.0026821 ppb		98
88) SEC-BUTYLBENZENE	7.888	105	2301557	96.5996338 ppb		99
89) 1,3-DICHLOROBENZENE	8.088	146	942627	94.8671284 ppb		98
90) P-ISOPROPYLTOLUENE	7.991	119	1865620	95.2349695 ppb		99
91) DICYCLOPENTADIENE	8.003	66	1859187	92.0087028 ppb		99
93) 1,4-DICHLOROBENZENE	8.155	146	879904	97.4694885 ppb	#	27
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	1642146	96.8432214 ppb		99
95) 1,2-DICHLOROBENZENE	8.484	146	894819	97.8087168 ppb		99
96) N-BUTYLBENZENE	8.320	91	1730959	98.1486085 ppb		98
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	155883	100.4370236 ppb		97

Quantitation Report (QT Reviewed)

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	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,2,4-TRICHLOROBENZENE	9.670	180	539316	101.3390365	ppb	99
99)	HEXACHLORO-1,3-BUTADIENE	9.634	225	231483	99.4255609	ppb	98
100)	NAPHTHALENE	9.944	128	1830493	99.9404306	ppb	99
101)	1,2,3-TRICHLOROBENZENE	10.102	180	517625	100.1789878	ppb	98
102)	1-METHYLNAPHTHALENE	10.759	142	780902	104.9652434	ppb	99
103)	2-METHYLNAPHTHALENE	10.875	142	718831	105.3450977	ppb	99

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

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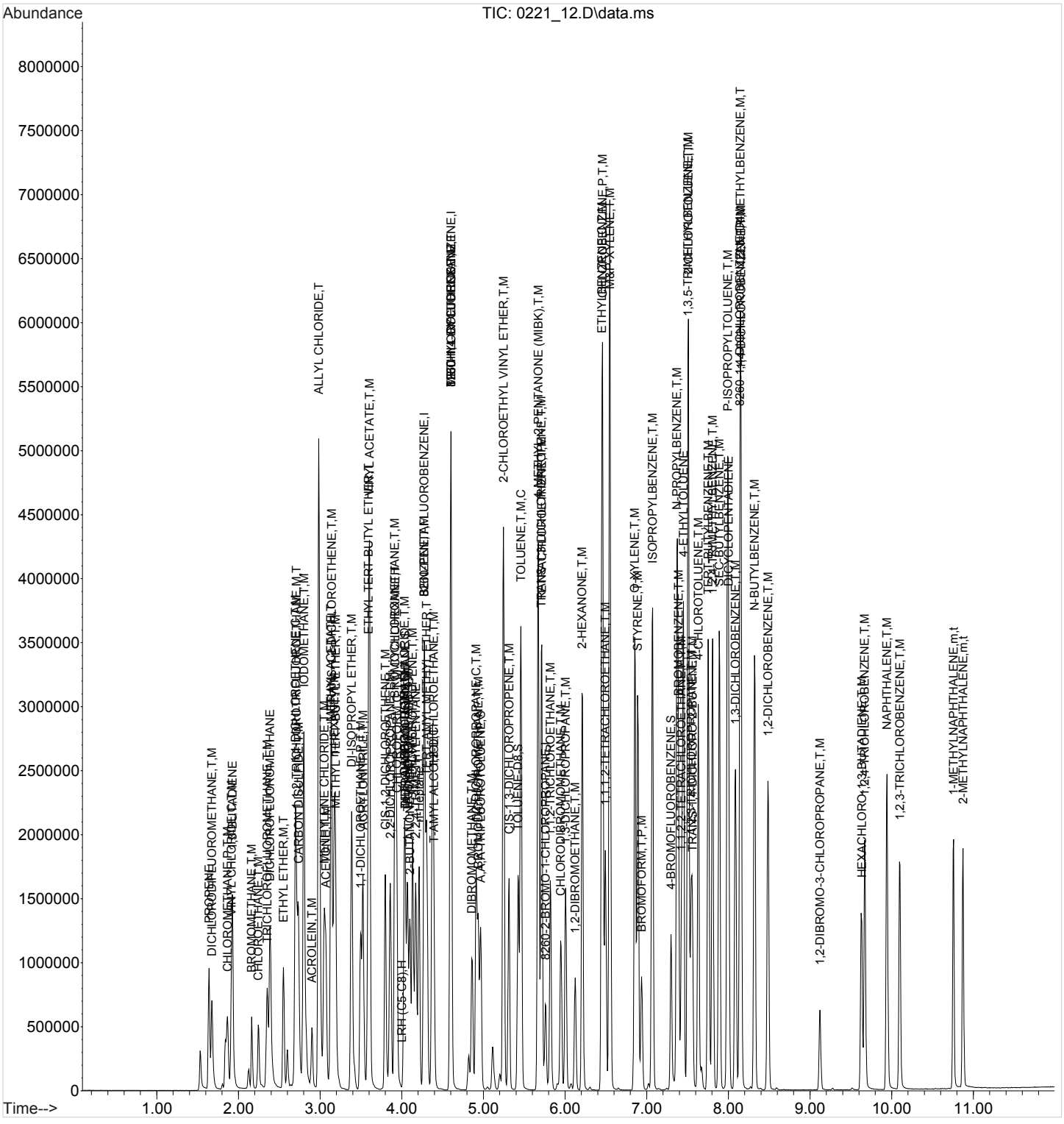

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.274	168	395116	40.0000000	ppb		0.00
48) 8260-1,4-DIFLUOROBENZENE	4.603	114	617128	40.0000000	ppb		0.00
61) 8260-2-BROMO-1-CHLOROP...	5.765	79	114695	40.0000000	ppb		0.00
92) 8260-1,4-DICHLOROBENZE...	8.143	152	272873	40.0000000	ppb	#	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.61
123) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.77
129) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.15
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.043	111	235823	48.1310377	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 120.33%				
54) A,A,A-TRIFLUOROTOLUENE	4.968	146	435934	51.6134689	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 129.03%#				
58) TOLUENE-D8	5.430	98	970363	53.1585152	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 132.90%#				
76) 4-BROMOFLUOROBENZENE	7.298	95	379204	47.6497345	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.12%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	66914978m	Below Cal			
3) LRH (C5-C8)	4.000	TIC	60439479m	305.4207080	ppm		
4) PROPENE	1.640	41	937346	200.9297877	ppb		98
5) DICHLORODIFLUOROMETHANE	1.676	85	1260573	221.8922911	ppb		99
6) CHLOROMETHANE	1.865	50	1900045m	294.9410660	ppb		
7) VINYL CHLORIDE	1.914	62	1269830	201.2345850	ppb		99
8) 1,3-BUTADIENE	1.926	39	850906	187.1619371	ppb		99
9) BROMOMETHANE	2.163	94	397984	185.5599141	ppb		99
10) CHLOROETHANE	2.242	64	487211	133.1594282	ppb		95
11) TRICHLOROFLUOROMETHANE	2.346	101	1573766	202.7503298	ppb		100
12) DICHLOROFLUOROMETHANE	2.382	67	1929779	194.0236225	ug/l		99
13) ETHYL ETHER	2.552	59	810021	208.6537992	ppb		98
14) ACROLEIN	2.899	56	736179	1402.9280808	ppb		99
15) 1,1-DICHLOROETHENE	2.698	96	933584	195.6623985	ppb		99
16) 1,1,2-TRICHLOROTRIFLUO...	2.704	101	899107	192.6204917	ppb		100
17) ACETONE	3.069	43	1900020	1008.2428192	ppb		98
18) IODOMETHANE	2.802	142	5433925	789.8938647	ppb		98
19) CARBON DISULFIDE	2.735	76	3054339	205.3481291	ppb		100
20) ALLYL CHLORIDE	2.984	76	2233618	853.6974853	ppb		96
21) METHYLENE CHLORIDE	3.051	84	992741	208.8801383	ppb		97
22) METHYL ACETATE	3.130	43	3493679	958.0742948	ppb	#	96
23) ACRYLONITRILE	3.526	53	1969355	980.9992706	ppb		97
24) n-HEXANE	3.173	56	693581	187.1451089	ppb		90
25) TRANS-1,2-DICHLOROETHENE	3.142	96	1003905	204.9857614	ppb		97
26) METHYL TERT-BUTYL ETHER	3.191	73	2824157	206.2404334	ppb		94
27) 1,1-DICHLOROETHANE	3.495	63	1861875	200.7875745	ppb		97
28) VINYL ACETATE	3.605	43	7931083	1001.9098941	ppb		97
29) DI-ISOPROPYL ETHER	3.386	45	2904106	197.0888180	ppb		99
30) ETHYL TERT-BUTYL ETHER	3.593	59	2704775	200.3172022	ppb		97
31) 2,2-DICHLOROPROPANE	3.860	77	1660727	202.4942090	ppb		100
32) CIS-1,2-DICHLOROETHENE	3.800	96	1134598	206.6001640	ppb		97
33) 2-BUTANONE (MEK)	4.098	43	2188855	991.6459563	ppb		98
34) BROMOCHLOROMETHANE	3.915	130	437146	169.3209000	ppb		98
35) TETRAHYDROFURAN	4.043	42	298583	181.2613401	ppb		99

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Misc : IS/SURR 16L30078
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS30

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Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) CHLOROFORM	3.939	83	1772376	198.8669812 ppb		97
37) CYCLOHEXANE	3.921	84	1444926	194.8975636 ppb		97
39) 1,1,1-TRICHLOROETHANE	4.073	97	1634771	208.5005442 ppb		99
40) CARBON TETRACHLORIDE	4.031	117	1467190	208.4968464 ppb		98
41) 1,1-DICHLOROPROPENE	4.134	75	1410928	201.0269762 ppb		99
42) 2,2,4-TRIMETHYLPENTANE	4.171	57	2552245	206.9181579 ppb		96
43) n-Heptane	4.213	71	711193	207.5257331 ppb		95
44) BENZENE	4.274	78	3929613	205.0831106 ppb		99
45) TERT-AMYL METHYL ETHER	4.304	73	2774420	203.6463708 ppb		99
46) 1,2-DICHLOROETHANE	4.390	62	1287337	198.7838951 ppb		99
47) T-AMYL ALCOHOL	4.396	59	406959	826.7104999 ppb		94
49) TRICHLOROETHENE	4.603	130	1065535	205.2832442 ppb	#	99
50) METHYL CYCLOHEXANE	4.603	83	1552912	191.2986695 ppb		99
51) 1,2-DICHLOROPROPANE	4.913	62	686909	203.6159590 ppb		99
52) DIBROMOMETHANE	4.858	93	622609	196.2573047 ppb		98
53) BROMODICHLOROMETHANE	4.937	83	1356742	209.0687447 ppb		98
55) 2-CHLOROETHYL VINYL ETHER	5.247	63	3062352	947.9661698 ppb		98
56) CIS-1,3-DICHLOROPROPENE	5.314	75	1518560	209.4464192 ppb		99
57) 4-METHYL-2-PENTANONE (...	5.673	43	4305466	908.4192692 ppb		95
59) TOLUENE	5.460	91	4078203	201.8008179 ppb		95
60) TRANS-1,3-DICHLOROPROPENE	5.716	75	1353792	204.2983977 ppb		100
62) 1,1,2-TRICHLOROETHANE	5.825	97	906326	193.5821186 ppb		98
63) TETRACHLOROETHENE	5.716	164	783244	177.1317542 ppb		98
64) 1,3-DICHLOROPROPANE	6.008	76	1509125	185.5122315 ppb		98
65) 2-HEXANONE	6.215	58	1963071	865.8874780 ppb		93
66) CHLORODIBROMOMETHANE	5.953	129	1084368	201.5600122 ppb		99
67) 1,2-DIBROMOETHANE	6.123	107	1009081	196.8352415 ppb		100
68) CHLOROBENZENE	6.464	112	2514298	175.1442831 ppb		99
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	895172	195.3627687 ppb		98
70) ETHYLBENZENE	6.452	106	1480578	178.1320501 ppb		94
71) M&P-XYLENE	6.549	106	3500087	361.4296347 ppb		90
72) O-XYLENE	6.860	106	1811799	187.0876140 ppb		93
73) STYRENE	6.896	104	2730936	183.3419964 ppb		99
74) BROMOFORM	6.939	173	718846	201.8439303 ppb		99
75) ISOPROPYLBENZENE	7.072	105	4439426	174.0754423 ppb		98
77) BROMOBENZENE	7.389	77	1731929	180.0331320 ppb		99
78) 1,1,2,2-TETRACHLOROETHANE	7.431	83	1165394	178.8621202 ppb		99
79) 1,2,3-TRICHLOROPROPANE	7.547	110	361656	185.1034188 ppb		99
80) TRANS-1,4-DICHLORO-2-B...	7.559	53	356016	187.2830218 ppb		94
81) N-PROPYLBENZENE	7.371	91	4878807	172.7786275 ppb		97
82) 4-ETHYLTOLUENE	7.450	105	4092567	175.2896105 ppb		96
83) 2-CHLOROTOLUENE	7.511	91	2969829	171.4930275 ppb		97
84) 4-CHLOROTOLUENE	7.632	91	3002925	180.8389925 ppb		99
85) 1,3,5-TRIMETHYLBENZENE	7.511	105	3320853	173.3776393 ppb		98
86) TERT-BUTYLBENZENE	7.754	119	2997131	177.8683246 ppb		100
87) 1,2,4-TRIMETHYLBENZENE	7.809	105	3350141	175.8066170 ppb		97
88) SEC-BUTYLBENZENE	7.888	105	4366065	176.5347842 ppb		98
89) 1,3-DICHLOROBENZENE	8.088	146	1826674	177.1019225 ppb		98
90) P-ISOPROPYLTOLUENE	7.991	119	3510519	172.6358291 ppb		98
91) DICYCLOPENTADIENE	8.003	66	3568799	170.1430726 ppb		98
93) 1,4-DICHLOROBENZENE	8.155	146	1676505	193.6209383 ppb	#	15
94) 1,2,3-TRIMETHYLBENZENE	8.149	105	3121269	191.9122655 ppb		98
95) 1,2-DICHLOROBENZENE	8.490	146	1704811	194.2820492 ppb		98
96) N-BUTYLBENZENE	8.320	91	3234164	191.1936555 ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	9.123	157	317661	213.3895021 ppb		97

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Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98) 1,2,4-TRICHLOROBENZENE	9.670	180	1073790	210.3618075 ppb	99
99) HEXACHLORO-1,3-BUTADIENE	9.634	225	454231	203.4088246 ppb	97
100) NAPHTHALENE	9.944	128	3627566	206.4916712 ppb	99
101) 1,2,3-TRICHLOROBENZENE	10.102	180	1025526	206.9293738 ppb	98
102) 1-METHYLNAPHTHALENE	10.759	142	1590532	222.8976376 ppb	97
103) 2-METHYLNAPHTHALENE	10.875	142	1437748	219.6768926 ppb	99

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

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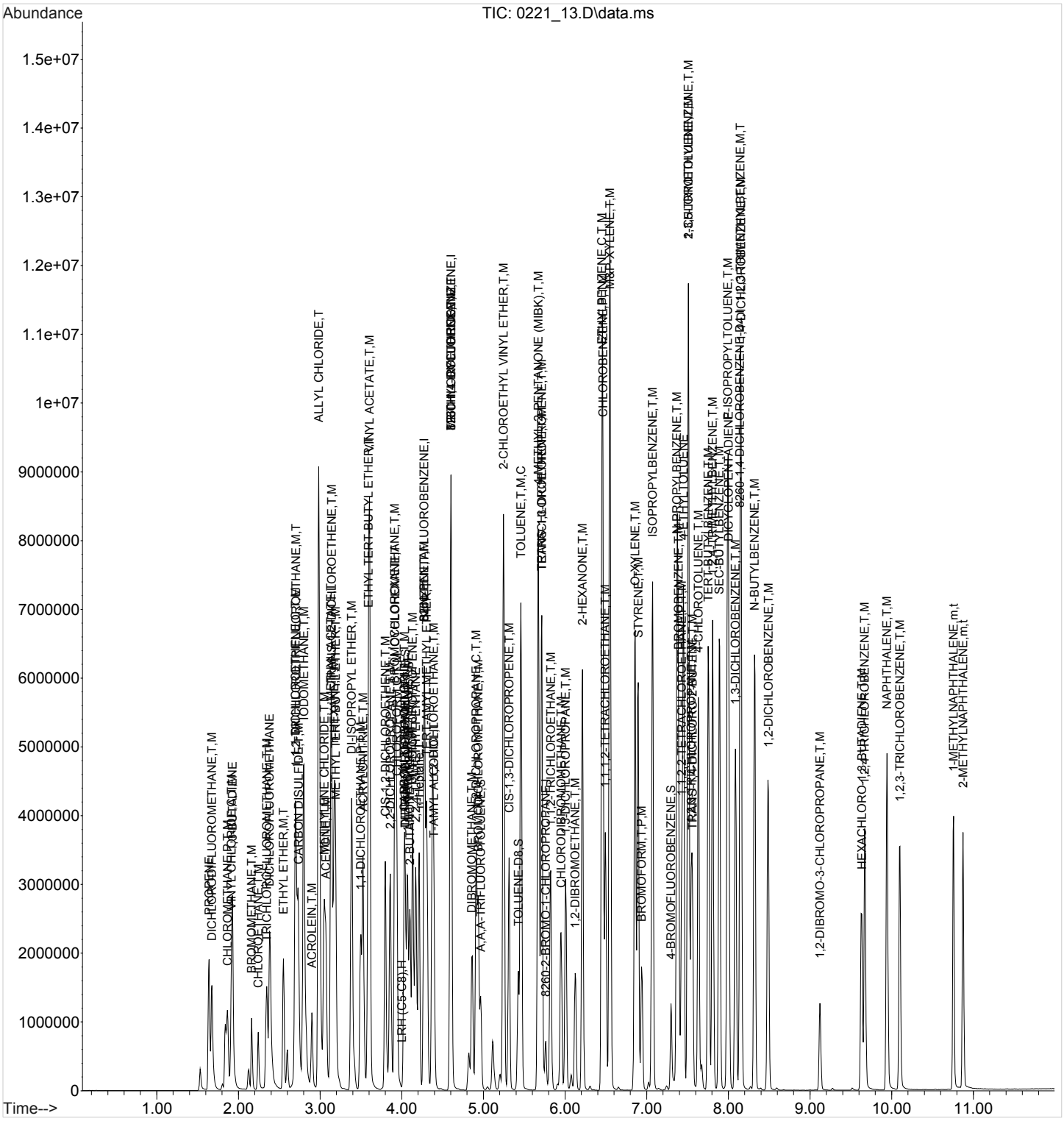
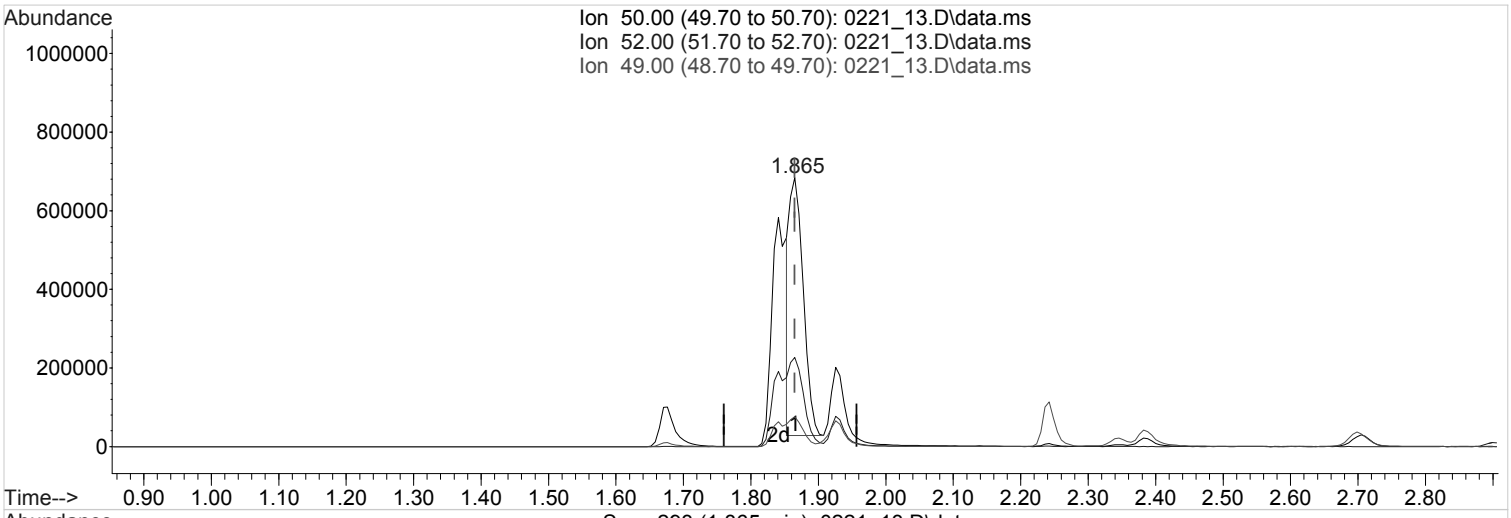
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration

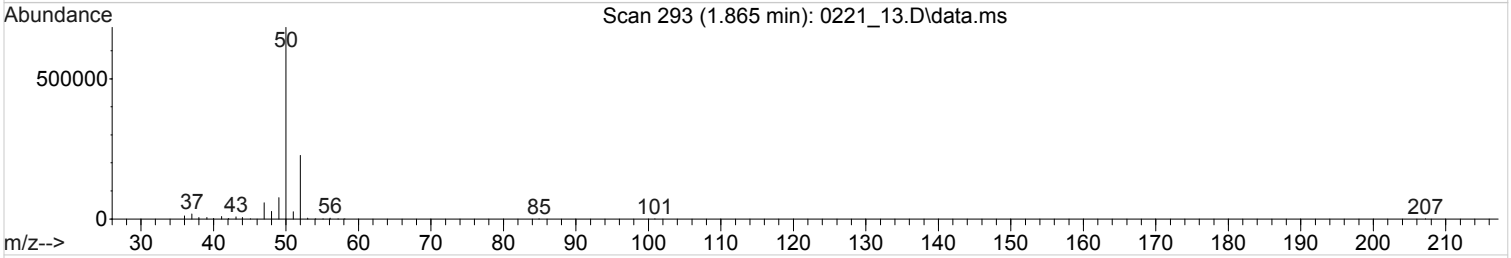


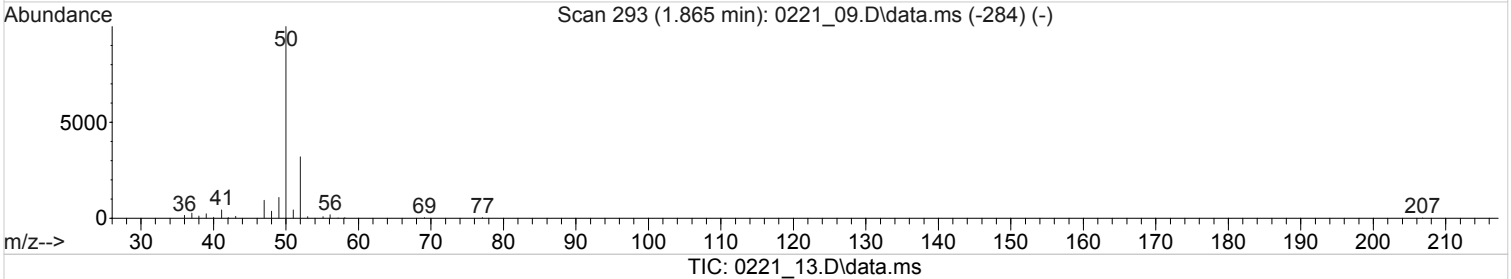
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_13.D
Acq On : 21 Feb 2017 6:23 pm
Operator : 605
Sample : STD VMS 200 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:30:13 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration







TIC: 0221_13.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.865min (-0.000) 144.1448408 ppb

Qvalue = 52

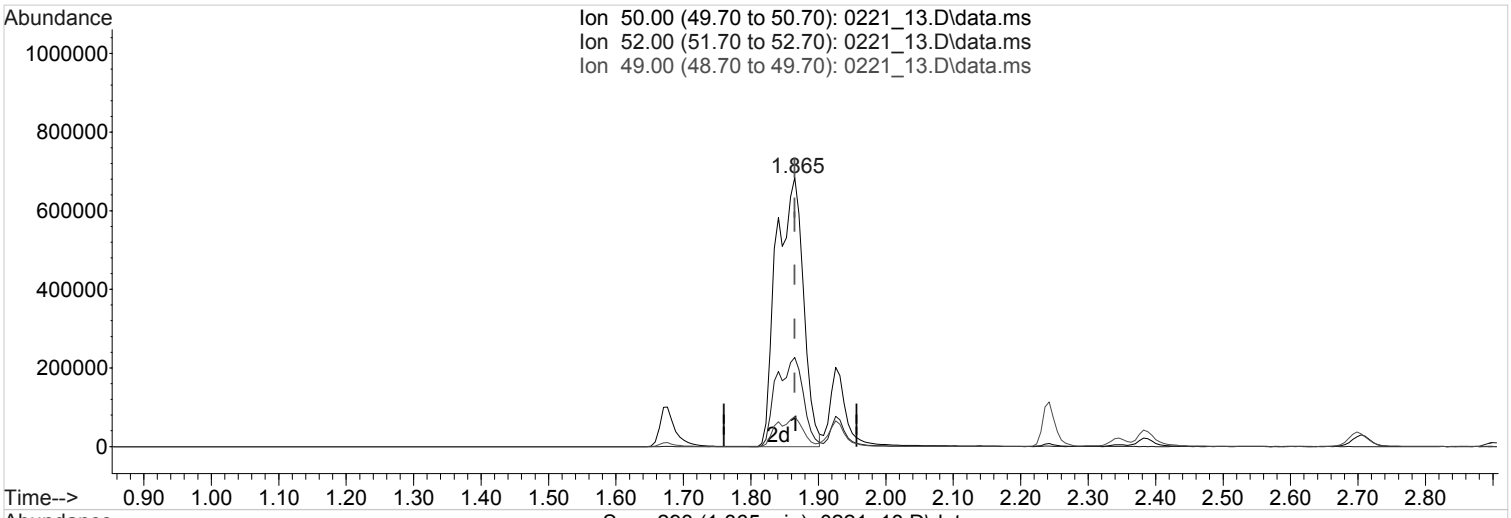
response 928598

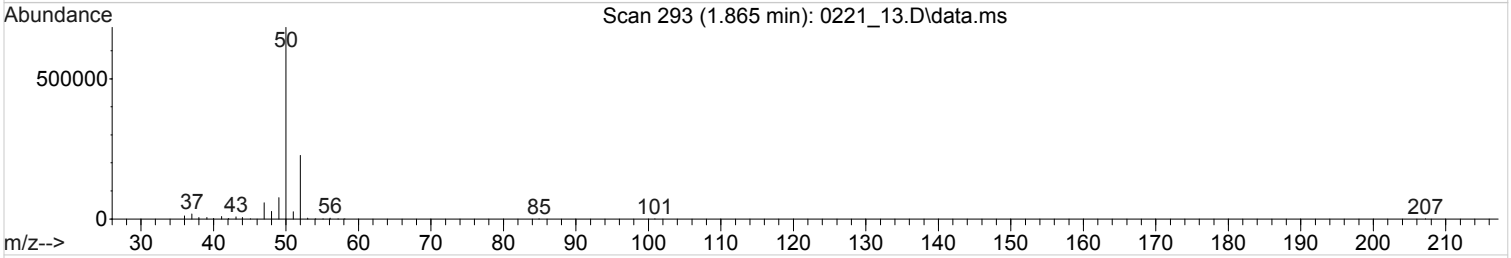
Ion	Exp%	Act%
50.00	100	100
52.00	32.80	67.95#
49.00	10.90	9.54
0.00	0.00	0.00

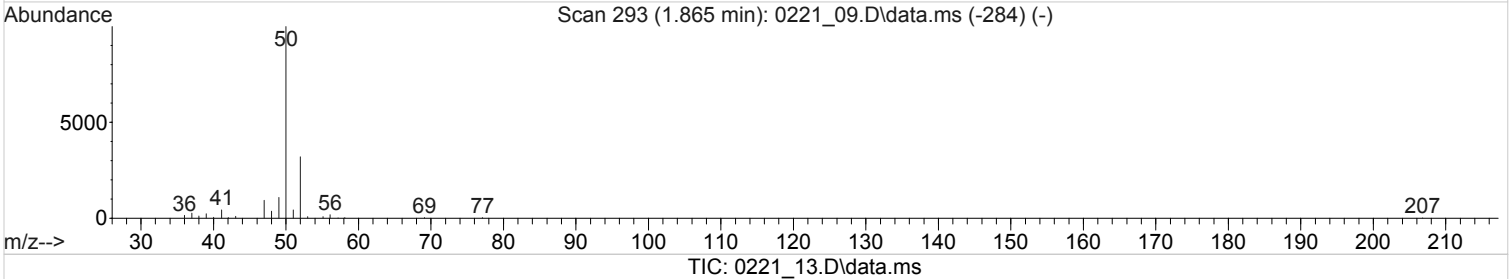
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_13.D
Acq On : 21 Feb 2017 6:23 pm
Operator : 605
Sample : STD VMS 200 ppb 17B21483
Misc : IS/SURR 16L30078
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:30:13 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:28:59 2017
Response via : Initial Calibration







TIC: 0221_13.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.865min (-0.000) 294.9410660 ppb m

response 1900045

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	33.21
49.00	10.90	4.66#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_18.D
Acq On : 21 Feb 2017 8:16 pm
Operator : 605
Sample : STD VMS 1a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:53:31 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

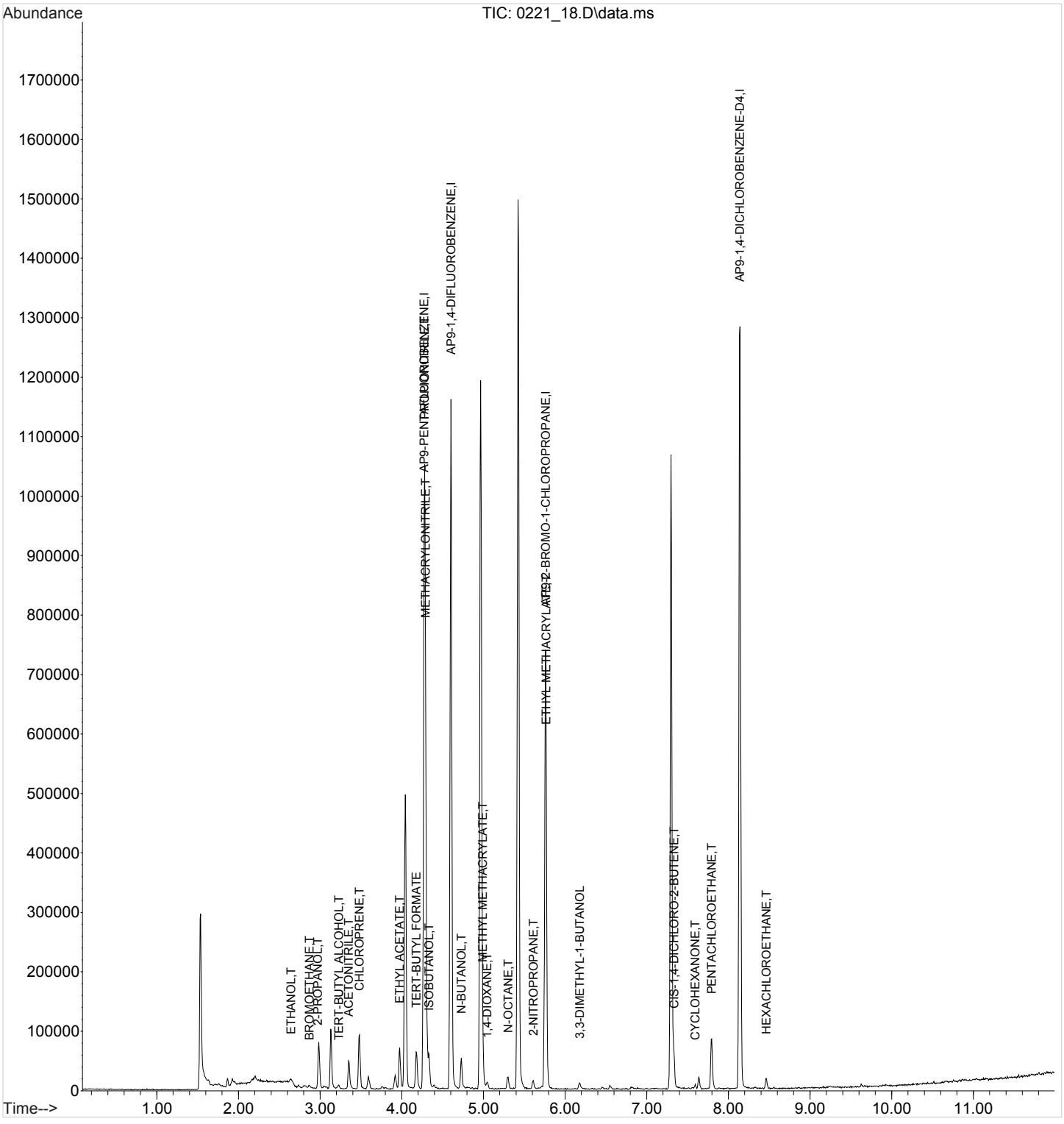
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	453585	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	718946	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	117459	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	313245	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.644	45	6427	105.6505845	ppb	#	86
106) BROMOETHANE	2.869	108	2827	0.6997045	ppb		99
107) 2-PROPANOL	2.972	45	1780	5.3288179	ppb	#	84
108) ACETONITRILE	3.349	41	41268	46.8324820	ppb		98
109) TERT-BUTYL ALCOHOL	3.228	59	6344	5.1105881	ppb	#	90
110) CHLOROPRENE	3.483	53	41608	4.7907234	ppb		99
111) PROPIONITRILE	4.280	54	48601	48.0208330	ppb	#	82
112) ETHYL ACETATE	3.976	43	58669	9.1494261	ppb		98
113) METHACRYLONITRILE	4.292	67	118681	49.8957737	ppb		98
114) TERT-BUTYL FORMATE	4.177	59	28007	9.7249097	ppb		95
115) ISOBUTANOL	4.335	43	25394	93.3778053	ppb	#	95
117) N-BUTANOL	4.730	56	24357	169.1512573	ppb		95
118) 2-NITROPROPANE	5.612	43	8435	4.9059774	ppb	#	94
119) METHYL METHACRYLATE	4.992	41	25384	4.8527079	ppb	#	20
120) 1,4-DIOXANE	5.047	88	4809	88.1780310	ppb	#	95
121) N-OCTANE	5.302	85	3515	0.9589621	ppb		88
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	4969	9.8410385	ppb		98
124) ETHYL METHACRYLATE	5.770	69	31889	4.9188637	ppb	#	1
125) CIS-1,4-DICHLORO-2-BUTENE	7.334	53	10295	4.7639347	ppb	#	29
126) CYCLOHEXANONE	7.596	55	2590	10.3248711	ppb	#	85
127) PENTACHLOROETHANE	7.796	117	14443	4.6608551	ppb		97
128) HEXACHLOROETHANE	8.465	117	3106	0.8810171	ppb		91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_18.D
Acq On : 21 Feb 2017 8:16 pm
Operator : 605
Sample : STD VMS 1a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:53:31 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_19.D
Acq On : 21 Feb 2017 8:38 pm
Operator : 605
Sample : STD VMS 2.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS30

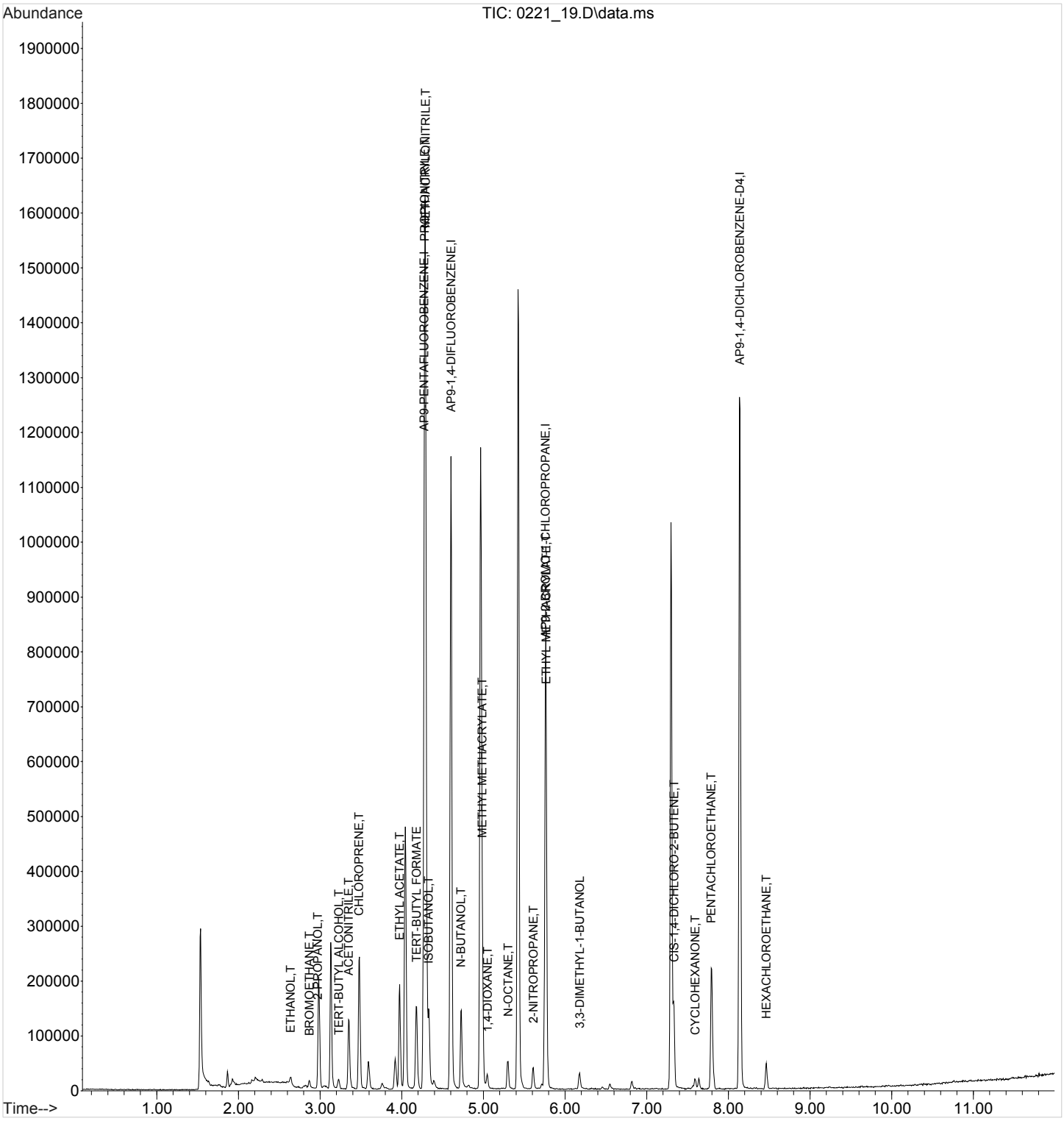
Quant Time: Feb 22 13:54:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	438519	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	698108	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	115030	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	306272	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.637	45	14380	244.5078232	ppb	#	90
106) BROMOETHANE	2.869	108	8669	2.2193620	ppb		95
107) 2-PROPANOL	2.972	45	4201	13.0086979	ppb	#	90
108) ACETONITRILE	3.349	41	109373	128.3849588	ppb		99
109) TERT-BUTYL ALCOHOL	3.227	59	16403	13.6678833	ppb	#	96
110) CHLOROPRENE	3.477	53	111375	13.2642359	ppb		99
111) PROPIONITRILE	4.280	54	130166	133.0308335	ppb		96
112) ETHYL ACETATE	3.976	43	161451	26.0433098	ppb		100
113) METHACRYLONITRILE	4.292	67	307373	133.6652606	ppb	#	92
114) TERT-BUTYL FORMATE	4.183	59	71151	25.5546693	ppb		100
115) ISOBUTANOL	4.329	43	68671	261.1897849	ppb	#	95
117) N-BUTANOL	4.724	56	70574	504.7424414	ppb		98
118) 2-NITROPROPANE	5.612	43	22418	13.4279890	ppb		93
119) METHYL METHACRYLATE	4.986	41	68684	13.5223859	ppb	#	68
120) 1,4-DIOXANE	5.053	88	13774	260.0994029	ppb		92
121) N-OCTANE	5.302	85	9350	2.6270079	ppb		93
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	12587	25.6724798	ppb		96
124) ETHYL METHACRYLATE	5.770	69	82006	12.9164956	ppb	#	1
125) CIS-1,4-DICHLORO-2-BUTENE	7.334	53	27171	12.8386764	ppb	#	30
126) CYCLOHEXANONE	7.595	55	6943	28.2622816	ppb		97
127) PENTACHLOROETHANE	7.790	117	37433	12.3349674	ppb		96
128) HEXACHLOROETHANE	8.465	117	8399	2.4326838	ppb		99

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

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_19.D
Acq On : 21 Feb 2017 8:38 pm
Operator : 605
Sample : STD VMS 2.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:54:07 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_20.D
Acq On : 21 Feb 2017 9:01 pm
Operator : 605
Sample : STD VMS 5.0a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:55:28 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

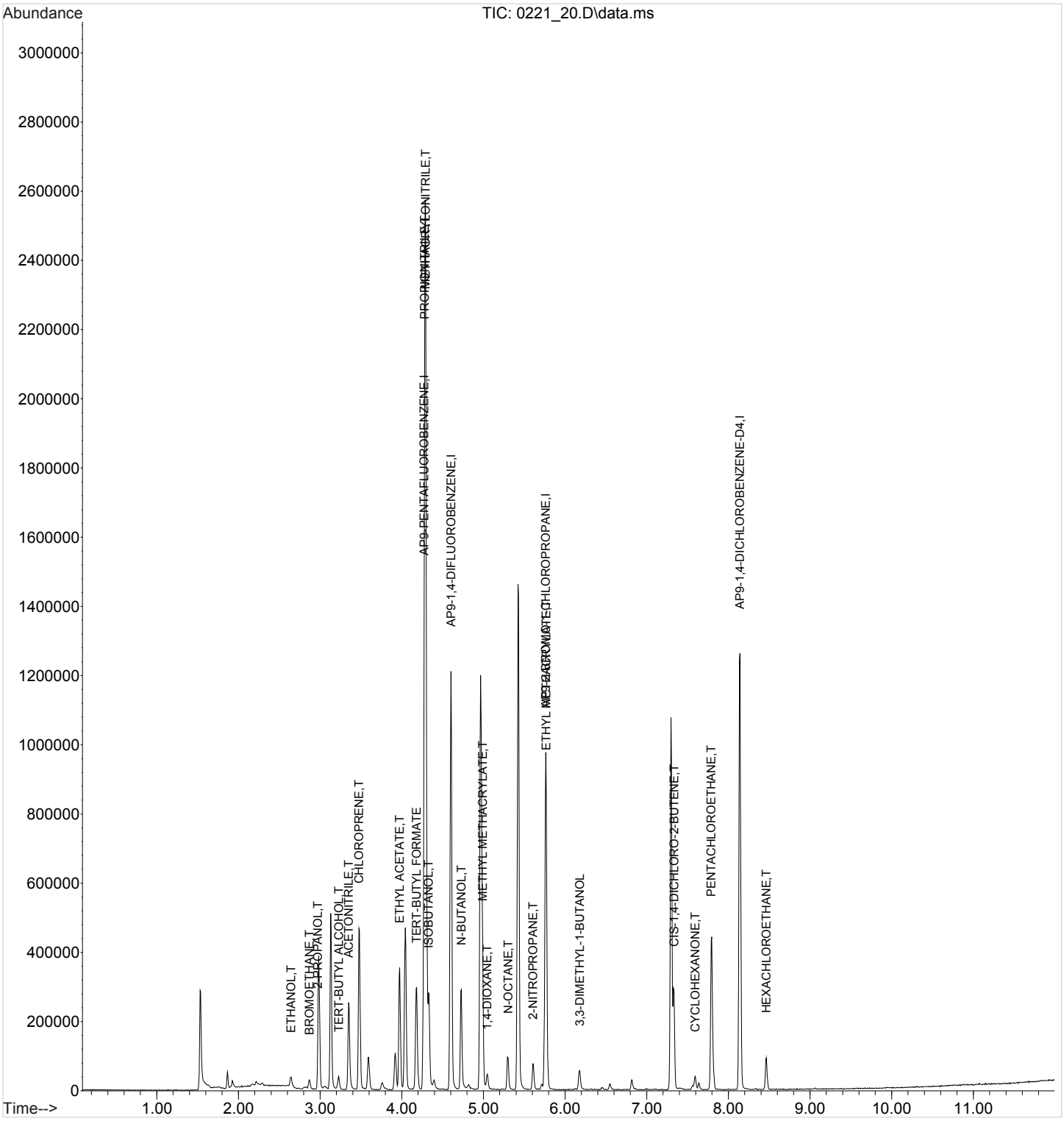
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	437143	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	706582	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	116036	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	307460	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.644	45	28198	480.9689783	ppb		97
106) BROMOETHANE	2.869	108	17450	4.4814593	ppb		100
107) 2-PROPANOL	2.972	45	8815	27.3822007	ppb	#	84
108) ACETONITRILE	3.349	41	214440	252.5077469	ppb		98
109) TERT-BUTYL ALCOHOL	3.228	59	34913	29.1830064	ppb		95
110) CHLOROPRENE	3.477	53	214395	25.6138028	ppb		99
111) PROPIONITRILE	4.280	54	248318	254.5820864	ppb		99
112) ETHYL ACETATE	3.976	43	307919	49.8260904	ppb		100
113) METHACRYLONITRILE	4.292	67	579306	252.7119313	ppb	#	93
114) TERT-BUTYL FORMATE	4.183	59	138144	49.7721235	ppb		99
115) ISOBUTANOL	4.329	43	129554	494.3090129	ppb	#	97
117) N-BUTANOL	4.730	56	137569	972.0883009	ppb		98
118) 2-NITROPROPANE	5.606	43	41012	24.2708566	ppb		94
119) METHYL METHACRYLATE	4.992	41	132018	25.6797588	ppb		89
120) 1,4-DIOXANE	5.047	88	26214	489.0717941	ppb		97
121) N-OCTANE	5.302	85	18152	5.0388833	ppb		99
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	25027	50.4329564	ppb		98
124) ETHYL METHACRYLATE	5.771	69	159288	24.8714154	ppb	#	48
125) CIS-1,4-DICHLORO-2-BUTENE	7.334	53	52528	24.6050281	ppb		91
126) CYCLOHEXANONE	7.596	55	13625	54.9812913	ppb		98
127) PENTACHLOROETHANE	7.790	117	75254	24.5827991	ppb		98
128) HEXACHLOROETHANE	8.466	117	17154	4.9254040	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_20.D
Acq On : 21 Feb 2017 9:01 pm
Operator : 605
Sample : STD VMS 5.0a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:55:28 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_21.D
Acq On : 21 Feb 2017 9:24 pm
Operator : 605
Sample : STD VMS 7.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:56:03 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

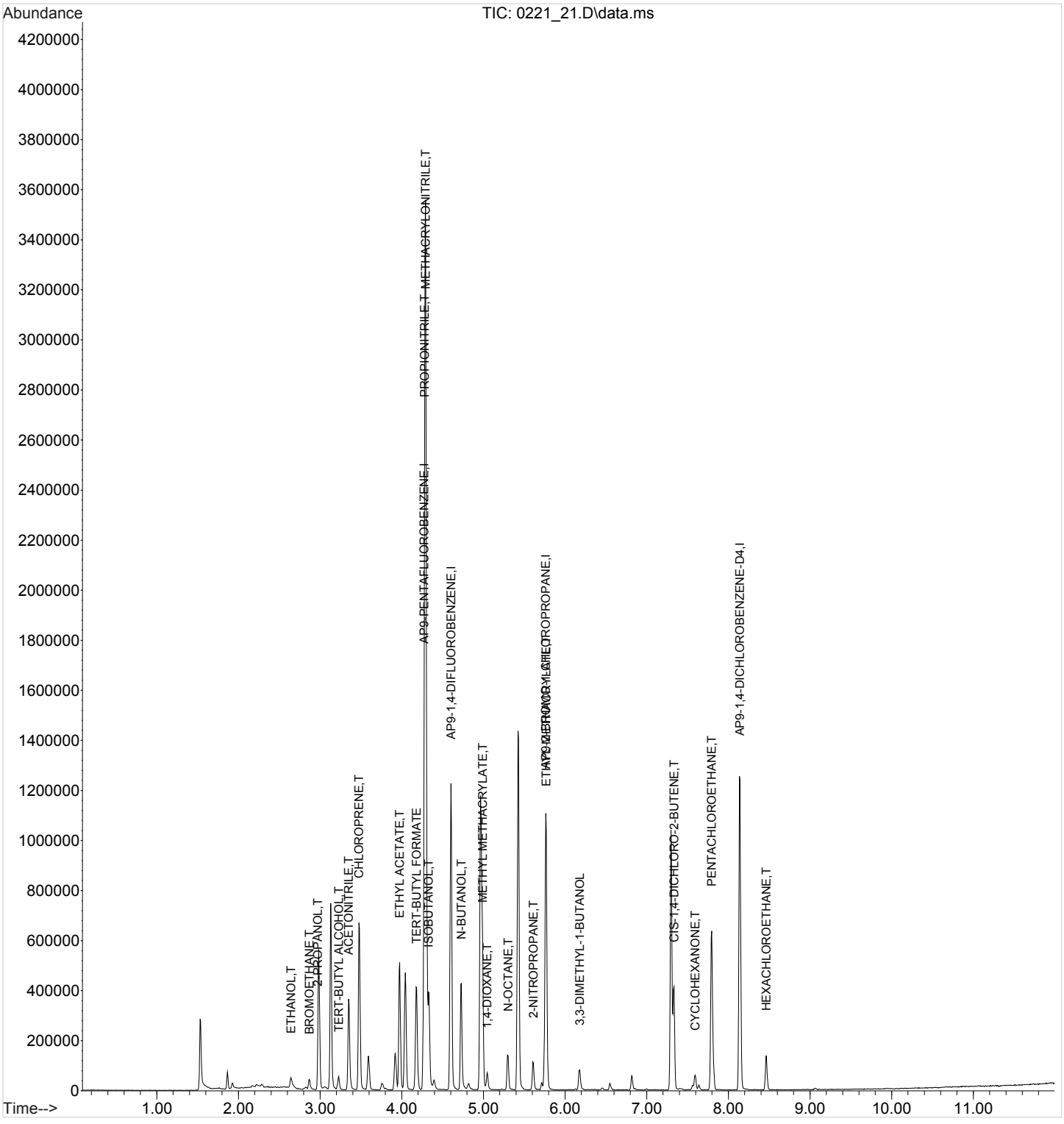
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	424912	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	689549	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.764	79	113759	40.0000000	ppb		0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	306117	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.644	45	40528	711.1782472	ppb		98
106) BROMOETHANE	2.869	108	26750	7.0676062	ppb		98
107) 2-PROPANOL	2.972	45	12464	39.8316233	ppb		94
108) ACETONITRILE	3.349	41	303709	367.9180563	ppb		100
109) TERT-BUTYL ALCOHOL	3.228	59	46110	39.6517644	ppb		95
110) CHLOROPRENE	3.477	53	307941	37.8487426	ppb		99
111) PROPIONITRILE	4.280	54	355129	374.5676880	ppb		99
112) ETHYL ACETATE	3.976	43	443110	73.7660294	ppb		99
113) METHACRYLONITRILE	4.292	67	827140	371.2113751	ppb		95
114) TERT-BUTYL FORMATE	4.183	59	195149	72.3344204	ppb		99
115) ISOBUTANOL	4.329	43	180964	710.3369761	ppb	#	98
117) N-BUTANOL	4.730	56	200679	1453.0631898	ppb		98
118) 2-NITROPROPANE	5.612	43	60996	36.9890305	ppb		96
119) METHYL METHACRYLATE	4.992	41	194309	38.7300578	ppb		97
120) 1,4-DIOXANE	5.047	88	38276	731.7509658	ppb		98
121) N-OCTANE	5.302	85	27226	7.7444592	ppb		98
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	34738	71.7311646	ppb		93
124) ETHYL METHACRYLATE	5.771	69	234127	37.2885869	ppb		83
125) CIS-1,4-DICHLORO-2-BUTENE	7.334	53	77257	36.9128709	ppb		99
126) CYCLOHEXANONE	7.596	55	21867	90.0066532	ppb		98
127) PENTACHLOROETHANE	7.796	117	109102	36.3530989	ppb		98
128) HEXACHLOROETHANE	8.466	117	25768	7.5468227	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_21.D
Acq On : 21 Feb 2017 9:24 pm
Operator : 605
Sample : STD VMS 7.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:56:03 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_22.D
Acq On : 21 Feb 2017 9:46 pm
Operator : 605
Sample : MSTD VMS 10a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:51:29 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

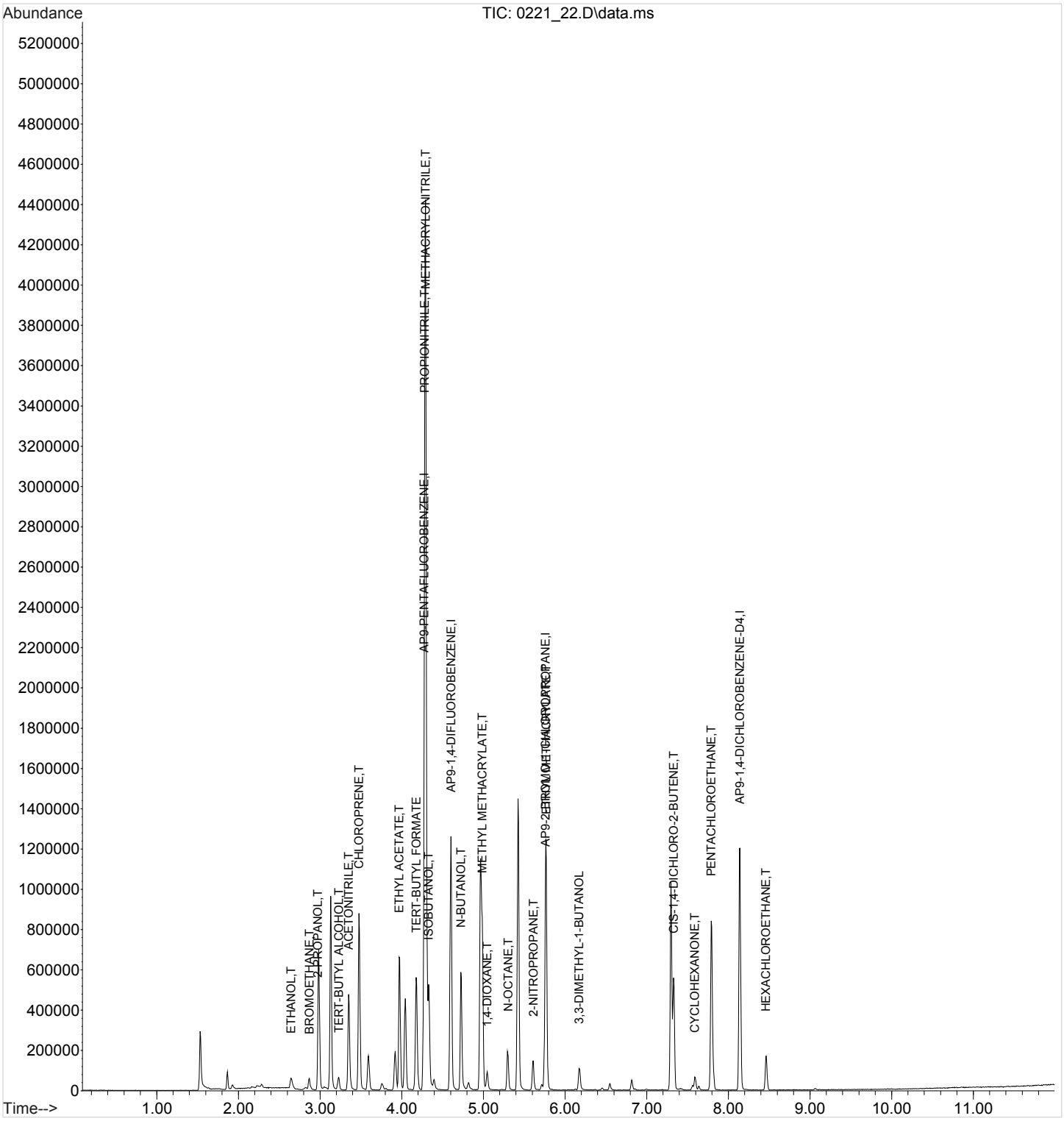
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	410006	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	683440	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	110510	40.0000000	ppb		0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	296312	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.644	45	54988	1000.0000000	ppb		100
106) BROMOETHANE	2.869	108	36521	10.0000000	ppb		100
107) 2-PROPANOL	2.972	45	15097	50.0000000	ppb		100
108) ACETONITRILE	3.349	41	398261	500.0000000	ppb		100
109) TERT-BUTYL ALCOHOL	3.228	59	56104	50.0000000	ppb		100
110) CHLOROPRENE	3.477	53	392534	50.0000000	ppb		100
111) PROPIONITRILE	4.280	54	457422	500.0000000	ppb		100
112) ETHYL ACETATE	3.970	43	577983	99.7168854	ppb		100
113) METHACRYLONITRILE	4.292	67	1075026	500.0000000	ppb		100
114) TERT-BUTYL FORMATE	4.177	59	259989	99.8716979	ppb		100
115) ISOBUTANOL	4.329	43	245821	1000.0000000	ppb	#	100
117) N-BUTANOL	4.724	56	273768	2000.0000000	ppb		100
118) 2-NITROPROPANE	5.612	43	81721	50.0000000	ppb		100
119) METHYL METHACRYLATE	4.986	41	248628	50.0000000	ppb		100
120) 1,4-DIOXANE	5.047	88	51844	1000.0000000	ppb		100
121) N-OCTANE	5.302	85	34844	10.0000000	ppb		100
122) 3,3-DIMETHYL-1-BUTANOL	6.172	57	47660	99.2937353	ppb		100
124) ETHYL METHACRYLATE	5.771	69	304973	50.0000000	ppb		100
125) CIS-1,4-DICHLORO-2-BUTENE	7.328	53	101659	50.0000000	ppb		100
126) CYCLOHEXANONE	7.590	55	23601	100.0000000	ppb		100
127) PENTACHLOROETHANE	7.790	117	145773	50.0000000	ppb		100
128) HEXACHLOROETHANE	8.460	117	33169	10.0000000	ppb		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_22.D
Acq On : 21 Feb 2017 9:46 pm
Operator : 605
Sample : MSTD VMS 10a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:51:29 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_23.D
Acq On : 21 Feb 2017 10:09 pm
Operator : 605
Sample : STD VMS 12.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:56:58 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

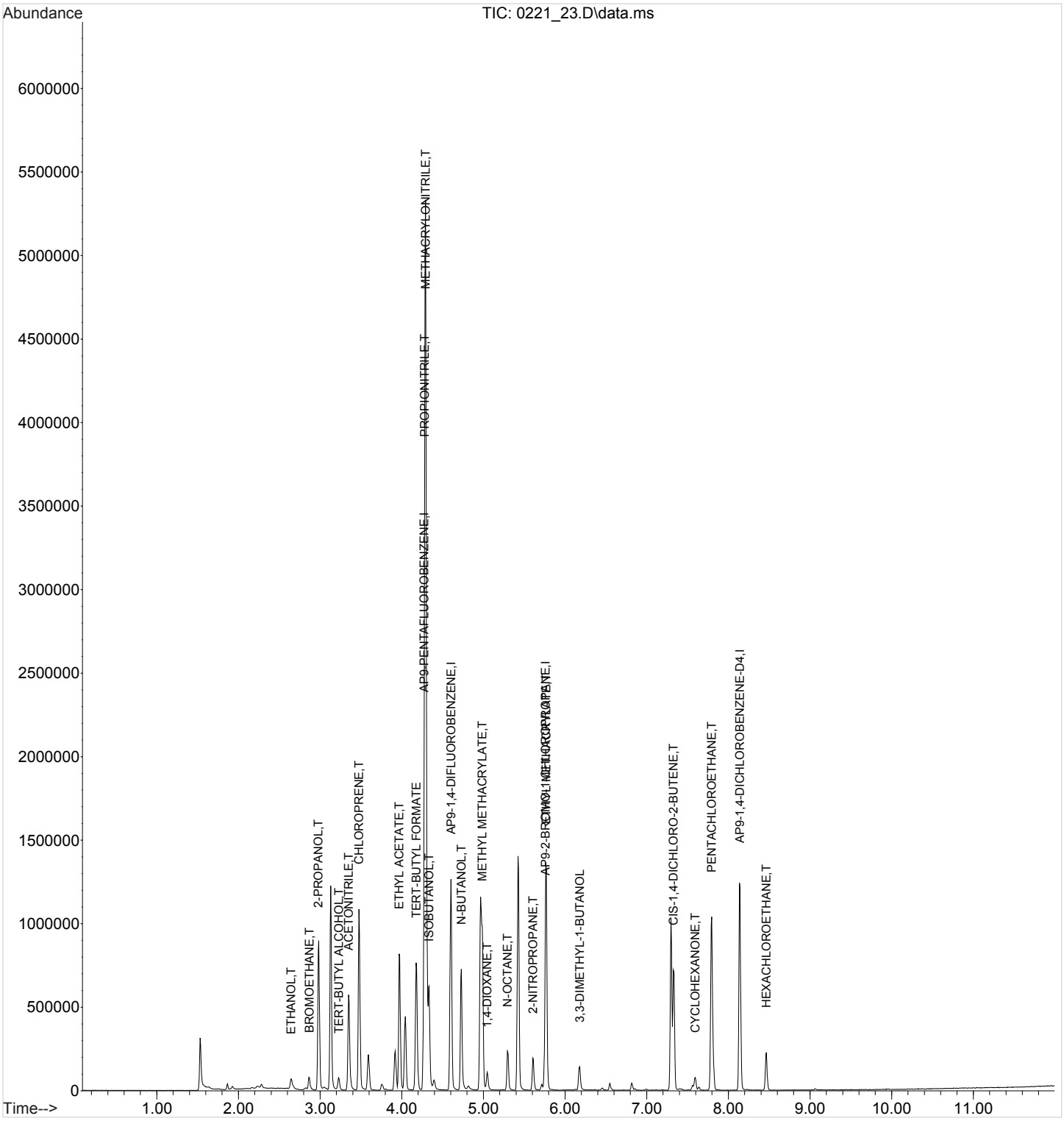
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	396777	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.602	114	666374	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	109362	40.0000000	ppb		0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	296828	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.643	45	65659	1233.8718688	ppb	#	98
106) BROMOETHANE	2.869	108	51036	14.4403490	ppb		96
107) 2-PROPANOL	2.978	45	19332	66.1606645	ppb		96
108) ACETONITRILE	3.349	41	497055	644.8376611	ppb		99
109) TERT-BUTYL ALCOHOL	3.227	59	69930	64.3996385	ppb		96
110) CHLOROPRENE	3.477	53	480955	63.3054195	ppb		100
111) PROPIONITRILE	4.280	54	570725	644.6493891	ppb	#	93
112) ETHYL ACETATE	3.970	43	708336	126.2806119	ppb		100
113) METHACRYLONITRILE	4.292	67	1313779	631.4181693	ppb		99
114) TERT-BUTYL FORMATE	4.177	59	359399	142.6619141	ppb		98
115) ISOBUTANOL	4.335	43	305539	1284.3736723	ppb	#	99
117) N-BUTANOL	4.730	56	336608	2522.0523410	ppb		99
118) 2-NITROPROPANE	5.606	43	103768	65.1151624	ppb		98
119) METHYL METHACRYLATE	4.986	41	310914	64.1272469	ppb		97
120) 1,4-DIOXANE	5.046	88	64380	1273.6051894	ppb		97
121) N-OCTANE	5.296	85	44352	13.0547197	ppb		93
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	60863	130.0479514	ppb		97
124) ETHYL METHACRYLATE	5.770	69	377924	62.6106511	ppb		90
125) CIS-1,4-DICHLORO-2-BUTENE	7.328	53	133751	66.4746935	ppb		100
126) CYCLOHEXANONE	7.596	55	28706	122.9072242	ppb		98
127) PENTACHLOROETHANE	7.796	117	179282	62.1390681	ppb		97
128) HEXACHLOROETHANE	8.465	117	43595	13.2812649	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_23.D
Acq On : 21 Feb 2017 10:09 pm
Operator : 605
Sample : STD VMS 12.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:56:58 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_24.D
Acq On : 21 Feb 2017 10:31 pm
Operator : 605
Sample : STD VMS 15a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:57:36 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

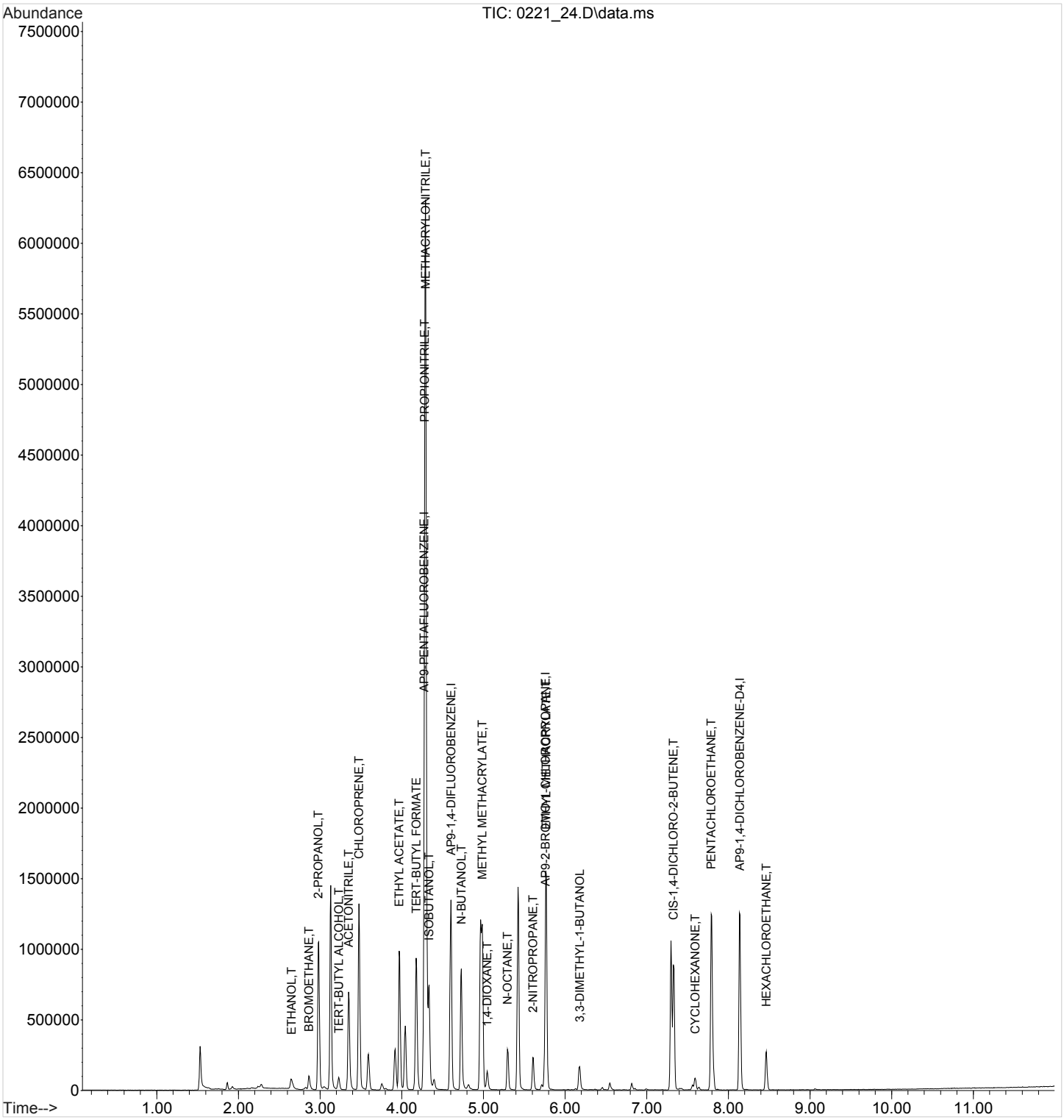
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	399296	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	678234	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	111423	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	307707	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.650	45	83648	1562.0066920	ppb	#	98
106) BROMOETHANE	2.863	108	65413	18.3914792	ppb		97
107) 2-PROPANOL	2.978	45	23902	81.2847069	ppb		100
108) ACETONITRILE	3.349	41	610337	786.8051170	ppb		99
109) TERT-BUTYL ALCOHOL	3.228	59	81415	74.5033598	ppb		98
110) CHLOROPRENE	3.477	53	589435	77.0945890	ppb		100
111) PROPIONITRILE	4.280	54	690440	774.9508382	ppb	#	93
112) ETHYL ACETATE	3.970	43	854265	151.3357405	ppb		99
113) METHACRYLONITRILE	4.292	67	1588564	758.6666707	ppb		99
114) TERT-BUTYL FORMATE	4.177	59	432219	170.4851540	ppb		99
115) ISOBUTANOL	4.335	43	370682	1548.3807704	ppb	#	99
117) N-BUTANOL	4.730	56	411002	3025.6039866	ppb		100
118) 2-NITROPROPANE	5.606	43	128482	79.2135463	ppb		99
119) METHYL METHACRYLATE	4.986	41	377449	76.4890176	ppb		95
120) 1,4-DIOXANE	5.047	88	80216	1559.1336187	ppb		99
121) N-OCTANE	5.296	85	53411	15.4462671	ppb		99
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	71864	150.8690075	ppb		95
124) ETHYL METHACRYLATE	5.771	69	463051	75.2946589	ppb		82
125) CIS-1,4-DICHLORO-2-BUTENE	7.328	53	165502	80.7335685	ppb		99
126) CYCLOHEXANONE	7.596	55	31309	131.5726201	ppb		98
127) PENTACHLOROETHANE	7.790	117	222927	75.8372045	ppb		98
128) HEXACHLOROETHANE	8.466	117	53915	16.1214449	ppb		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_24.D
Acq On : 21 Feb 2017 10:31 pm
Operator : 605
Sample : STD VMS 15a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:57:36 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_25.D
Acq On : 21 Feb 2017 10:54 pm
Operator : 605
Sample : STD VMS 17.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:58:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

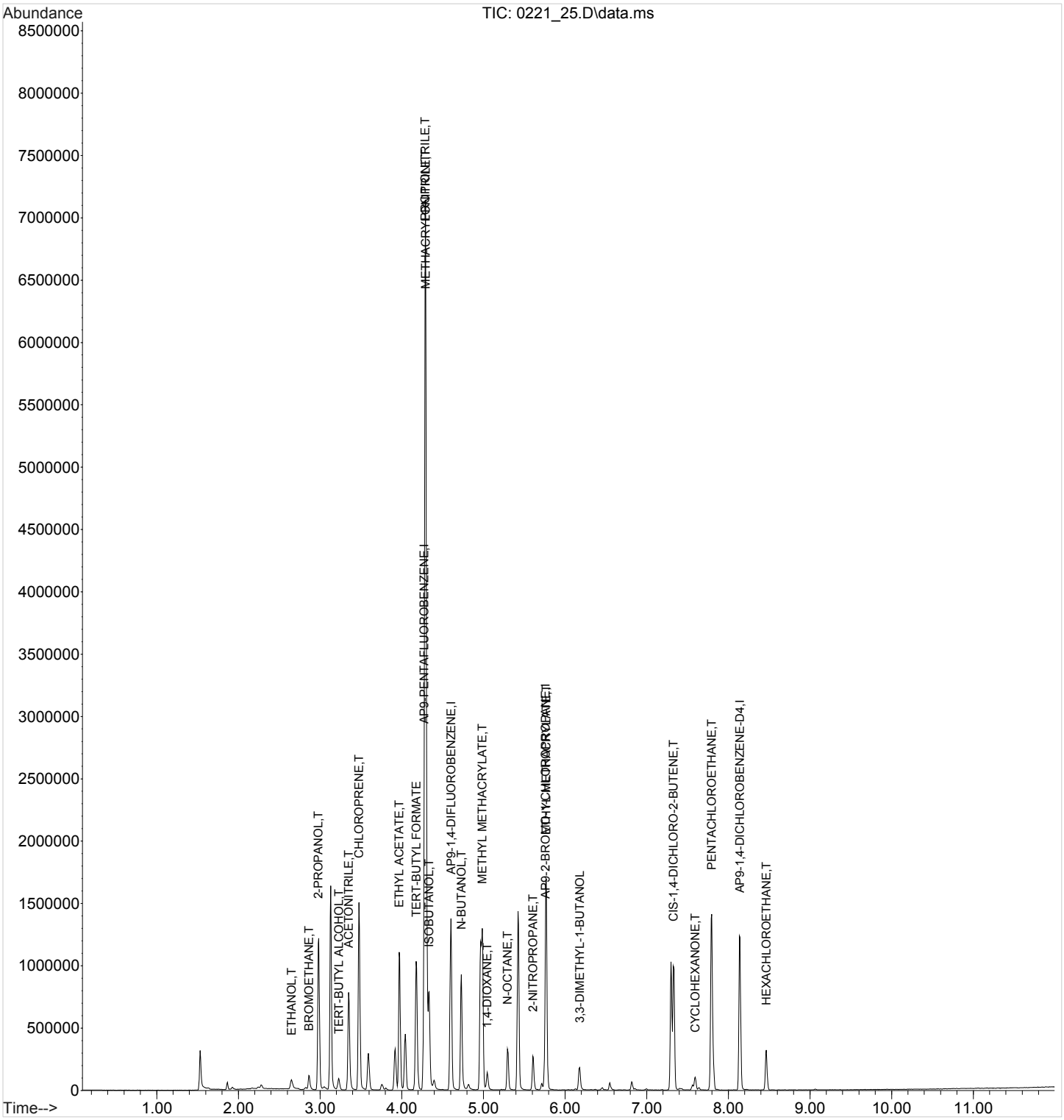
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	397584	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	675122	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	109069	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	304020	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.650	45	88263	1655.2823117	ppb	#	96
106) BROMOETHANE	2.863	108	76185	21.5123634	ppb		98
107) 2-PROPANOL	2.978	45	25035	85.5043596	ppb		94
108) ACETONITRILE	3.349	41	681247	881.9990974	ppb		98
109) TERT-BUTYL ALCOHOL	3.228	59	89599	82.3456486	ppb		94
110) CHLOROPRENE	3.477	53	679110	89.2060200	ppb		100
111) PROPIONITRILE	4.286	54	773814	872.2698315	ppb	#	93
112) ETHYL ACETATE	3.970	43	963603	171.4403708	ppb		100
113) METHACRYLONITRILE	4.292	67	1794430	860.6743717	ppb		98
114) TERT-BUTYL FORMATE	4.177	59	490083	194.1415135	ppb		98
115) ISOBUTANOL	4.335	43	401814	1685.6499685	ppb	#	99
117) N-BUTANOL	4.730	56	427615	3162.4114693	ppb		98
118) 2-NITROPROPANE	5.606	43	148002	91.6689061	ppb		99
119) METHYL METHACRYLATE	4.986	41	425482	86.6202221	ppb		95
120) 1,4-DIOXANE	5.047	88	82464	1610.2155926	ppb		99
121) N-OCTANE	5.296	85	60451	17.5627944	ppb		98
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	78123	164.7649594	ppb		99
124) ETHYL METHACRYLATE	5.771	69	521700	86.6621974	ppb	#	78
125) CIS-1,4-DICHLORO-2-BUTENE	7.328	53	186888	93.1334809	ppb		98
126) CYCLOHEXANONE	7.596	55	38307	164.4553417	ppb		96
127) PENTACHLOROETHANE	7.796	117	249240	86.6185487	ppb		97
128) HEXACHLOROETHANE	8.466	117	60735	18.5526907	ppb		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_25.D
Acq On : 21 Feb 2017 10:54 pm
Operator : 605
Sample : STD VMS 17.5a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:58:17 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_26.D
Acq On : 21 Feb 2017 11:16 pm
Operator : 605
Sample : STD VMS 20a ppb 17B19356
Misc : IS/SURR 16L30078
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS30

Quant Time: Feb 22 13:59:03 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.27
48) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.60
61) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.76
92) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.14
104) AP9-PENTAFLUOROBENZENE	4.274	168	394977	40.0000000	ppb		0.00
116) AP9-1,4-DIFLUOROBENZENE	4.603	114	680243	40.0000000	ppb		0.00
123) AP9-2-BROMO-1-CHLOROPR...	5.758	79	110547	40.0000000	ppb	#	0.00
129) AP9-1,4-DICHLOROBENZEN...	8.143	152	305734	40.0000000	ppb		0.00
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
54) A,A,A-TRIFLUOROTOLUENE	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
58) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
76) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
105) ETHANOL	2.656	45	111330	2101.6611220	ppb	#	96
106) BROMOETHANE	2.863	108	91696	26.0631039	ppb		99
107) 2-PROPANOL	2.978	45	31023	106.6550804	ppb		98
108) ACETONITRILE	3.349	41	797811	1039.7301786	ppb		99
109) TERT-BUTYL ALCOHOL	3.228	59	103664	95.9008699	ppb		95
110) CHLOROPRENE	3.477	53	770848	101.9248028	ppb		100
111) PROPIONITRILE	4.286	54	897212	1018.0437330	ppb	#	93
112) ETHYL ACETATE	3.970	43	1127874	201.9912845	ppb		100
113) METHACRYLONITRILE	4.292	67	2096187	1012.0441643	ppb		97
114) TERT-BUTYL FORMATE	4.177	59	578779	230.7908730	ppb		97
115) ISOBUTANOL	4.335	43	493256	2082.9162158	ppb	#	99
117) N-BUTANOL	4.730	56	541874	3977.2412744	ppb		100
118) 2-NITROPROPANE	5.606	43	173403	106.5931388	ppb		99
119) METHYL METHACRYLATE	4.986	41	496952	100.4085563	ppb		94
120) 1,4-DIOXANE	5.047	88	105579	2046.0458152	ppb		98
121) N-OCTANE	5.296	85	69006	19.8973464	ppb		96
122) 3,3-DIMETHYL-1-BUTANOL	6.178	57	92777	194.1978635	ppb		96
124) ETHYL METHACRYLATE	5.771	69	615919	100.9454693	ppb	#	74
125) CIS-1,4-DICHLORO-2-BUTENE	7.328	53	221342	108.8284938	ppb		94
126) CYCLOHEXANONE	7.596	55	43130	182.6853287	ppb		97
127) PENTACHLOROETHANE	7.790	117	292292	100.2223217	ppb		98
128) HEXACHLOROETHANE	8.466	117	70542	21.2603303	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\022117\
Data File : 0221_26.D
Acq On : 21 Feb 2017 11:16 pm
Operator : 605
Sample : STD VMS 20a ppb 17B19356
Misc : IS/SURR 16L30078
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Quant Time: Feb 22 13:59:03 2017
Quant Method : C:\msdchem\1\methods\V830B21Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Wed Feb 22 13:51:15 2017
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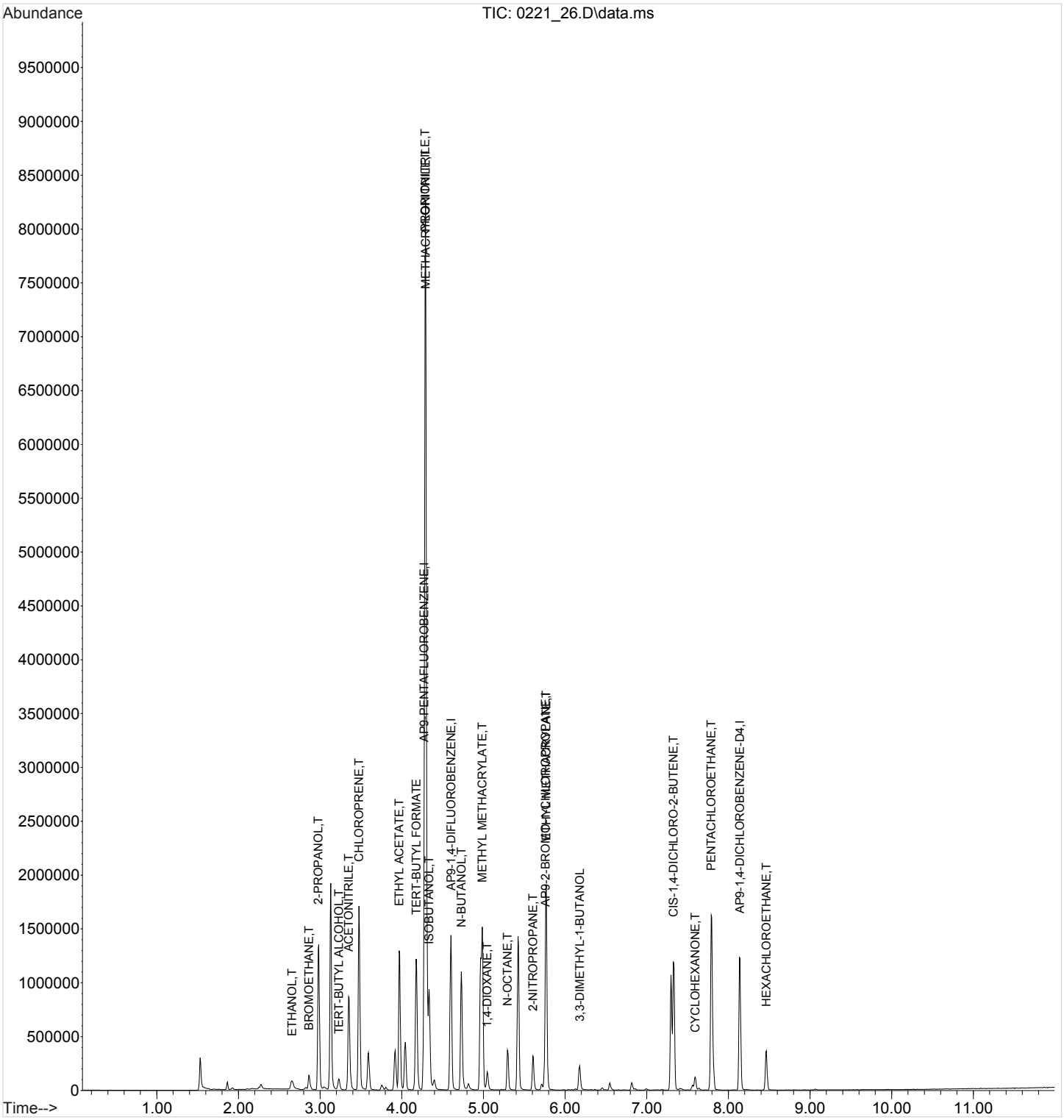

CH2MHILL - Montgomery, AL

4121 Carmichael Rd, Suite 400
Montgomery, AL 36106

Billing Information:
Ms. Kaye Walker
4121 Carmichael Rd., Ste. 400
Montgomery, AL 36106

Pres Chk

Report to: Ms. Kaye Walker

Email To: kaye.walker@ch2m.com

Project Description: MGM DEAP Soil Vapor

City/State Collected:

Phone: 334-215-9058
Fax:

Client Project #

Lab Project # CH2MMAL-DEAP

Collected by (print): Jestina Hansen

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
EB01-0217	G	GW	—	2/20/17	1010	2	X			01
AB01-0217	G	GW	—	2/20/17	1015	2	X			02
BSW-0217	G	GW	—	2/20/17	1025	2	X			03
FD01-0217	G	GW	—	2/20/17	1030	2	X			04
		GW				2	X			
		GW				2	X			
TRIP BLANK	G	GW		2/20/17		1		X		05

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 891420

J057

Acctnum: CH2MMAL
Template: T120478
Prelogin: P588270
TSR: 034 - Craig Cothron
PB: 2-13-17

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air
GW - Groundwater
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: PO # 10381-7-114258

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 7176 9004 4560

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	2/20/17	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MWT

Trip Blank Received: (Yes) / No
HCL / MeoH
TBR

Temp: MWT °C 1.2 Bottles Received: 8

Date: 2-21-17 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ESC Lab Sciences

Login Confirmation Report

February 22, 2017 - 12:04

Account: CH2MMAL - CH2MHILL - Montgomery, AL

Login #	**L891420**	Receive Date: 02/21/2017	TSR: Craig Cothron
Template #	T120478	Entered: 02/21/2017	By: Matt Shacklock
Report to:	Ms. Kaye Walker 4121 Carmichael Rd, Suite 400 Montgomery, AL 36106	Lab Project Number: CH2MMAL-DEAP Client Project # Project Description: MGM DEAP Soil Vapor Collected By: Jestina Hansen	**Report MDL: Y** **HDC: N** PO # PO Req: N
Phone:	(334) 215-9058 FAX:	Reg. State: AL	Terms: 30
Email:	kaye.walker@ch2m.com		Quote #

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L891420-01		**EB01-0217**	**02/20/2017 10:10** Sample Description: MGM DEAP Soil Vapor	**Site:**	**Est. Due Date*: 02/28/2017 - NU**	
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		UDEFAULT	8260B	$ 55.00
Misc	DISPOSAL	Sample Disposal Charge				$ 5.00
Misc	ENERGY	Energy Surcharge				$ 15.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SAMPLEKIT	Sample Kit / Supplies Fee				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L891420-02		**AB01-0217**	**02/20/2017 10:15** Sample Description: MGM DEAP Soil Vapor	**Site:**	**Est. Due Date*: 02/28/2017 - NU**	
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		UDEFAULT	8260B	$ 55.00
L891420-03		**BSW-0217**	**02/20/2017 10:25** Sample Description: MGM DEAP Soil Vapor	**Site:**	**Est. Due Date*: 02/28/2017 - NU**	
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		UDEFAULT	8260B	$ 55.00
L891420-04		**FD01-0217**	**02/20/2017 10:30** Sample Description: MGM DEAP Soil Vapor	**Site:**	**Est. Due Date*: 02/28/2017 - NU**	
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		UDEFAULT	8260B	$ 55.00
L891420-05		**TRIP BLANK**	**02/20/2017 00:00** Sample Description: MGM DEAP Soil Vapor	**Site:**	**Est. Due Date*: 02/28/2017 - NU**	
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		UDEFAULT	8260B	$ 55.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 295.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**