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

Quality Control Summary
SDG: L801110

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L801110

Lab SampleID.	Client ID
L801110-01	TU904-TMW01-NT01
L801110-02	TU904-TMW03-NT01

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Quality Control Summary
SDG: L801110

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
February 4, 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 Method 8260B

Laboratory Control Sample

Samples L801110-01 and 02 were analyzed in analytical batch WG829608. 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

For analytical batch WG829608 matrix spike/matrix spike duplicate analysis was performed on sample L801221-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

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 VOCMS18 was calibrated on 11/11/2015. 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.

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2016.02.04 10:58:48 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

Report Summary

Thursday February 04, 2016

Report Number: L801110
Samples Received: 11/14/15
Client Project: 60425210.23446543.00

Description: Holloman AFB

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Pamela A. Langford

Pam Langford , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01,1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 04, 2016

ESC Sample # : L801110-01

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU904-TMW01-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/12/15 12:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.0	50	ug/l		8260B	11/18/15	1
Benzene	71-43-2	U	0.331	0.500	1	ug/l		8260B	11/18/15	1
Bromobenzene	108-86-1	U	0.352	0.500	1	ug/l		8260B	11/18/15	1
Bromochloromethane	74-97-5	U	0.52	0.750	1	ug/l		8260B	11/18/15	1
Bromodichloromethane	75-27-4	U	0.38	0.500	1	ug/l		8260B	11/18/15	1
Bromoform	75-25-2	U	0.469	0.500	1	ug/l		8260B	11/18/15	1
Bromomethane	74-83-9	U	0.866	2.50	5	ug/l		8260B	11/18/15	1
n-Butylbenzene	104-51-8	U	0.361	0.500	1	ug/l		8260B	11/18/15	1
sec-Butylbenzene	135-98-8	U	0.365	0.500	1	ug/l		8260B	11/18/15	1
tert-Butylbenzene	98-06-6	U	0.399	0.500	1	ug/l		8260B	11/18/15	1
Carbon Disulfide	75-15-0	U	0.275	0.500	1	ug/l		8260B	11/18/15	1
Carbon tetrachloride	56-23-5	U	0.379	0.500	1	ug/l		8260B	11/18/15	1
Chlorobenzene	108-90-7	U	0.348	0.500	1	ug/l		8260B	11/18/15	1
Chlorodibromomethane	124-48-1	U	0.327	0.500	1	ug/l		8260B	11/18/15	1
Chloroethane	75-00-3	U	0.453	2.50	5	ug/l		8260B	11/18/15	1
Chloroform	67-66-3	U	0.324	2.50	5	ug/l		8260B	11/18/15	1
Chloromethane	74-87-3	U	0.276	0.500	2.5	ug/l		8260B	11/18/15	1
2-Chlorotoluene	95-49-8	U	0.375	0.500	1	ug/l		8260B	11/18/15	1
4-Chlorotoluene	106-43-4	U	0.351	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.33	2.50	5	ug/l		8260B	11/18/15	1
1,2-Dibromoethane	106-93-4	U	0.381	0.500	1	ug/l		8260B	11/18/15	1
Dibromomethane	74-95-3	U	0.346	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichlorobenzene	95-50-1	U	0.349	0.500	1	ug/l		8260B	11/18/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.500	1	ug/l		8260B	11/18/15	1
1,4-Dichlorobenzene	106-46-7	U	0.274	0.500	1	ug/l		8260B	11/18/15	1
Dichlorodifluoromethane	75-71-8	U	0.551	2.50	5	ug/l		8260B	11/18/15	1
1,1-Dichloroethane	75-34-3	U	0.259	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichloroethane	107-06-2	U	0.361	0.500	1	ug/l		8260B	11/18/15	1
1,1-Dichloroethene	75-35-4	U	0.398	0.500	1	ug/l		8260B	11/18/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.500	1	ug/l		8260B	11/18/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.396	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichloropropane	78-87-5	U	0.306	0.500	1	ug/l		8260B	11/18/15	1
1,1-Dichloropropene	563-58-6	U	0.352	0.500	1	ug/l		8260B	11/18/15	1
1,3-Dichloropropane	142-28-9	U	0.366	0.500	1	ug/l		8260B	11/18/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.418	0.500	1	ug/l		8260B	11/18/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.419	0.500	1	ug/l		8260B	11/18/15	1
2,2-Dichloropropane	594-20-7	U	0.321	0.500	1	ug/l		8260B	11/18/15	1
Ethylbenzene	100-41-4	U	0.384	0.500	1	ug/l		8260B	11/18/15	1
2-Hexanone	591-78-6	U	3.82	5.00	10	ug/l		8260B	11/18/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.256	0.500	1	ug/l		8260B	11/18/15	1
Isopropylbenzene	98-82-8	U	0.326	0.500	1	ug/l		8260B	11/18/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.500	1	ug/l		8260B	11/18/15	1
2-Butanone (MEK)	78-93-3	U	3.93	5.00	10	ug/l		8260B	11/18/15	1
Methylene Chloride	75-09-2	U	1	2.50	5	ug/l		8260B	11/18/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.14	5.00	10	ug/l		8260B	11/18/15	1

U = Not Detected at the LOD
Note:
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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 04, 2016

ESC Sample # : L801110-01

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU904-TMW01-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/12/15 12:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.367	0.500	1	ug/l		8260B	11/18/15	1
Methyl Cyclohexane	108-87-2	U	0.38	0.500	1	ug/l	J4	8260B	11/18/15	1
Naphthalene	91-20-3	U	1	2.50	5	ug/l		8260B	11/18/15	1
n-Propylbenzene	103-65-1	U	0.349	0.500	1	ug/l		8260B	11/18/15	1
Styrene	100-42-5	U	0.307	0.500	1	ug/l		8260B	11/18/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.385	0.500	1	ug/l		8260B	11/18/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.750	1	ug/l		8260B	11/18/15	1
Tetrachloroethene	127-18-4	U	0.372	0.500	1	ug/l		8260B	11/18/15	1
Toluene	108-88-3	U	0.78	2.50	5	ug/l		8260B	11/18/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.500	1	ug/l		8260B	11/18/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.355	0.500	1	ug/l		8260B	11/18/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.500	1	ug/l		8260B	11/18/15	1
1,1,2-Trichloroethane	79-00-5	U	0.383	0.500	1	ug/l		8260B	11/18/15	1
Trichloroethene	79-01-6	U	0.398	0.500	1	ug/l		8260B	11/18/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.50	5	ug/l		8260B	11/18/15	1
1,2,3-Trichloropropane	96-18-4	U	0.807	1.00	2.5	ug/l		8260B	11/18/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.373	0.500	1	ug/l		8260B	11/18/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.387	0.500	1	ug/l		8260B	11/18/15	1
o-Xylene	95-47-6	U	0.341	0.500	1	ug/l		8260B	11/18/15	1
m&p-Xylene	1330-20-7	U	0.719	1.00	2	ug/l		8260B	11/18/15	1
Vinyl chloride	75-01-4	U	0.259	0.500	1	ug/l		8260B	11/18/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	102.				% Rec.		8260B	11/18/15	1
Dibromofluoromethane	1868-53-7	104.				% Rec.		8260B	11/18/15	1
4-Bromofluorobenzene	460-00-4	93.4				% Rec.		8260B	11/18/15	1

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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 04, 2016

ESC Sample # : L801110-02

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU904-TMW03-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/12/15 12:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.0	50	ug/l		8260B	11/18/15	1
Benzene	71-43-2	U	0.331	0.500	1	ug/l		8260B	11/18/15	1
Bromobenzene	108-86-1	U	0.352	0.500	1	ug/l		8260B	11/18/15	1
Bromochloromethane	74-97-5	U	0.52	0.750	1	ug/l		8260B	11/18/15	1
Bromodichloromethane	75-27-4	U	0.38	0.500	1	ug/l		8260B	11/18/15	1
Bromoform	75-25-2	U	0.469	0.500	1	ug/l		8260B	11/18/15	1
Bromomethane	74-83-9	U	0.866	2.50	5	ug/l		8260B	11/18/15	1
n-Butylbenzene	104-51-8	U	0.361	0.500	1	ug/l		8260B	11/18/15	1
sec-Butylbenzene	135-98-8	U	0.365	0.500	1	ug/l		8260B	11/18/15	1
tert-Butylbenzene	98-06-6	U	0.399	0.500	1	ug/l		8260B	11/18/15	1
Carbon Disulfide	75-15-0	U	0.275	0.500	1	ug/l		8260B	11/18/15	1
Carbon tetrachloride	56-23-5	U	0.379	0.500	1	ug/l		8260B	11/18/15	1
Chlorobenzene	108-90-7	U	0.348	0.500	1	ug/l		8260B	11/18/15	1
Chlorodibromomethane	124-48-1	U	0.327	0.500	1	ug/l		8260B	11/18/15	1
Chloroethane	75-00-3	U	0.453	2.50	5	ug/l		8260B	11/18/15	1
Chloroform	67-66-3	U	0.324	2.50	5	ug/l		8260B	11/18/15	1
Chloromethane	74-87-3	U	0.276	0.500	2.5	ug/l		8260B	11/18/15	1
2-Chlorotoluene	95-49-8	U	0.375	0.500	1	ug/l		8260B	11/18/15	1
4-Chlorotoluene	106-43-4	U	0.351	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.33	2.50	5	ug/l		8260B	11/18/15	1
1,2-Dibromoethane	106-93-4	U	0.381	0.500	1	ug/l		8260B	11/18/15	1
Dibromomethane	74-95-3	U	0.346	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichlorobenzene	95-50-1	U	0.349	0.500	1	ug/l		8260B	11/18/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.500	1	ug/l		8260B	11/18/15	1
1,4-Dichlorobenzene	106-46-7	U	0.274	0.500	1	ug/l		8260B	11/18/15	1
Dichlorodifluoromethane	75-71-8	U	0.551	2.50	5	ug/l		8260B	11/18/15	1
1,1-Dichloroethane	75-34-3	U	0.259	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichloroethane	107-06-2	U	0.361	0.500	1	ug/l		8260B	11/18/15	1
1,1-Dichloroethene	75-35-4	U	0.398	0.500	1	ug/l		8260B	11/18/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.500	1	ug/l		8260B	11/18/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.396	0.500	1	ug/l		8260B	11/18/15	1
1,2-Dichloropropane	78-87-5	U	0.306	0.500	1	ug/l		8260B	11/18/15	1
1,1-Dichloropropene	563-58-6	U	0.352	0.500	1	ug/l		8260B	11/18/15	1
1,3-Dichloropropane	142-28-9	U	0.366	0.500	1	ug/l		8260B	11/18/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.418	0.500	1	ug/l		8260B	11/18/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.419	0.500	1	ug/l		8260B	11/18/15	1
2,2-Dichloropropane	594-20-7	U	0.321	0.500	1	ug/l		8260B	11/18/15	1
Ethylbenzene	100-41-4	U	0.384	0.500	1	ug/l		8260B	11/18/15	1
2-Hexanone	591-78-6	U	3.82	5.00	10	ug/l		8260B	11/18/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.256	0.500	1	ug/l		8260B	11/18/15	1
Isopropylbenzene	98-82-8	U	0.326	0.500	1	ug/l		8260B	11/18/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.500	1	ug/l		8260B	11/18/15	1
2-Butanone (MEK)	78-93-3	U	3.93	5.00	10	ug/l		8260B	11/18/15	1
Methylene Chloride	75-09-2	U	1	2.50	5	ug/l		8260B	11/18/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.14	5.00	10	ug/l		8260B	11/18/15	1

U = Not Detected at the LOD
Note:
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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 04, 2016

ESC Sample # : L801110-02

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU904-TMW03-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/12/15 12:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.367	0.500	1	ug/l		8260B	11/18/15	1
Methyl Cyclohexane	108-87-2	U	0.38	0.500	1	ug/l	J4	8260B	11/18/15	1
Naphthalene	91-20-3	U	1	2.50	5	ug/l		8260B	11/18/15	1
n-Propylbenzene	103-65-1	U	0.349	0.500	1	ug/l		8260B	11/18/15	1
Styrene	100-42-5	U	0.307	0.500	1	ug/l		8260B	11/18/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.385	0.500	1	ug/l		8260B	11/18/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.750	1	ug/l		8260B	11/18/15	1
Tetrachloroethene	127-18-4	U	0.372	0.500	1	ug/l		8260B	11/18/15	1
Toluene	108-88-3	U	0.78	2.50	5	ug/l		8260B	11/18/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.500	1	ug/l		8260B	11/18/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.355	0.500	1	ug/l		8260B	11/18/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.500	1	ug/l		8260B	11/18/15	1
1,1,2-Trichloroethane	79-00-5	U	0.383	0.500	1	ug/l		8260B	11/18/15	1
Trichloroethene	79-01-6	3.35	0.398	0.500	1	ug/l		8260B	11/18/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.50	5	ug/l		8260B	11/18/15	1
1,2,3-Trichloropropane	96-18-4	U	0.807	1.00	2.5	ug/l		8260B	11/18/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.373	0.500	1	ug/l		8260B	11/18/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.387	0.500	1	ug/l		8260B	11/18/15	1
o-Xylene	95-47-6	U	0.341	0.500	1	ug/l		8260B	11/18/15	1
m&p-Xylene	1330-20-7	U	0.719	1.00	2	ug/l		8260B	11/18/15	1
Vinyl chloride	75-01-4	U	0.259	0.500	1	ug/l		8260B	11/18/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	102.				% Rec.		8260B	11/18/15	1
Dibromofluoromethane	1868-53-7	99.5				% Rec.		8260B	11/18/15	1
4-Bromofluorobenzene	460-00-4	100.				% Rec.		8260B	11/18/15	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 11/18/15 13:27 Revised: 02/04/16 10:19

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L801110-01	WG829608	SAMP	Methyl Cyclohexane	R3093886	J4
L801110-02	WG829608	SAMP	Methyl Cyclohexane	R3093886	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Volatile Organic Compounds by Method 8260B

12065 Lebanon Rd
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801110

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 60425210.23446543.00

Login No: L801110

Lab SampleID.	Client ID
L801110-01	TU904-TMW01-NT01
L801110-02	TU904-TMW03-NT01

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: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Workgroup: **WG829608**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L801110-01 1x	11/12/2015	11/18/2015
L801110-02 1x	11/12/2015	11/18/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS18	LCS WG829608	LCS WG829608	1118_03.D	11/18/2015	2:45 AM
VOCMS18	LCSD WG829608	LCSD WG829608	1118_04.D	11/18/2015	3:06 AM
VOCMS18	Blank WG829608	Blank WG829608	1118_09.D	11/18/2015	4:48 AM
VOCMS18	MS WG829608	MS WG829608	1118_10.D	11/18/2015	5:08 AM
VOCMS18	MSD WG829608	MSD WG829608	1118_11.D	11/18/2015	5:28 AM
VOCMS18	TU904-TMW01-NT01	L801110-01	1118_16.D	11/18/2015	7:09 AM
VOCMS18	TU904-TMW03-NT01	L801110-02	1118_17.D	11/18/2015	7:30 AM

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000355	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl Cyclohexane	108-87-2	< 0.00100	< 0.000380	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0271	108	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0263	105	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0279	111	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0268	107	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0256	102	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0241	96.3	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0254	101	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0277	111	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0263	105	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0282	113	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0263	105	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0259	104	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0263	105	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0257	103	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0258	103	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0263	105	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0258	103	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0269	107	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0258	103	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0252	101	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0242	96.9	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1469	118	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0261	104	76.4 - 125	
2-Hexanone	1	0.125	0.1473	118	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0261	104	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1378	110	63.3 - 138	
Acetone	1	0.125	0.1347	108	28.7 - 175	
Benzene	1	0.025	0.0249	99.8	73 - 122	
Bromobenzene	1	0.025	0.0255	102	81.5 - 115	
Bromochloromethane	1	0.025	0.0260	104	78.9 - 123	
Bromodichloromethane	1	0.025	0.0269	107	75.5 - 121	
Bromoform	1	0.025	0.0291	117	71.5 - 131	
Bromomethane	1	0.025	0.0259	104	22.4 - 187	
Carbon disulfide	1	0.025	0.0247	98.8	53 - 134	
Carbon tetrachloride	1	0.025	0.0268	107	70.9 - 129	
Chlorobenzene	1	0.025	0.0255	102	79.7 - 122	

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0273	109	78.2 - 124	
Chloroethane	1	0.025	0.0225	89.9	41.2 - 153	
Chloroform	1	0.025	0.0258	103	73.2 - 125	
Chloromethane	1	0.025	0.0257	103	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.7	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0277	111	77.7 - 124	
Dibromomethane	1	0.025	0.0270	108	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0316	127	56 - 134	
Ethylbenzene	1	0.025	0.0266	106	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0273	109	73.7 - 133	
Isopropylbenzene	1	0.025	0.0258	103	81.6 - 124	
m&p-Xylenes	1	0.05	0.0512	102	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0243	97.3	70.1 - 125	
Methylene Chloride	1	0.025	0.0245	97.9	69.5 - 120	
Naphthalene	1	0.025	0.0282	113	69.7 - 134	
n-Butylbenzene	1	0.025	0.0283	113	75.9 - 134	
n-Propylbenzene	1	0.025	0.0261	105	81.9 - 122	
o-Xylene	1	0.025	0.0256	102	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0272	109	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0266	106	80.6 - 126	
Styrene	1	0.025	0.0263	105	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0263	105	79.3 - 127	
Tetrachloroethene	1	0.025	0.0262	105	73.5 - 130	
Toluene	1	0.025	0.0248	99.3	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0248	99.1	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0281	112	73.5 - 127	
Trichloroethene	1	0.025	0.0262	105	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0270	108	49.1 - 157	
Vinyl chloride	1	0.025	0.0257	103	61.5 - 134	

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0267	107	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0276	110	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0280	112	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0263	105	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0261	104	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0263	105	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0260	104	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0282	113	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0292	117	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0265	106	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0270	108	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0269	107	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0263	105	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0264	106	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0270	108	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0262	105	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0270	108	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0254	102	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0257	103	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0260	104	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1578	126	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0267	107	76.4 - 125	
2-Hexanone	1	0.125	0.1559	125	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0262	105	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1483	119	63.3 - 138	
Acetone	1	0.125	0.1471	118	28.7 - 175	
Benzene	1	0.025	0.0255	102	73 - 122	
Bromobenzene	1	0.025	0.0250	99.9	81.5 - 115	
Bromochloromethane	1	0.025	0.0265	106	78.9 - 123	
Bromodichloromethane	1	0.025	0.0270	108	75.5 - 121	
Bromoform	1	0.025	0.0293	117	71.5 - 131	
Bromomethane	1	0.025	0.0274	110	22.4 - 187	
Carbon disulfide	1	0.025	0.0254	102	53 - 134	
Carbon tetrachloride	1	0.025	0.0279	112	70.9 - 129	
Chlorobenzene	1	0.025	0.0253	101	79.7 - 122	

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Est. 1970

Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0275	110	78.2 - 124	
Chloroethane	1	0.025	0.0236	94.2	41.2 - 153	
Chloroform	1	0.025	0.0265	106	73.2 - 125	
Chloromethane	1	0.025	0.0268	107	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0257	103	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0277	111	77.7 - 124	
Dibromomethane	1	0.025	0.0274	110	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0332	133	56 - 134	
Ethylbenzene	1	0.025	0.0261	105	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0287	115	73.7 - 133	
Isopropylbenzene	1	0.025	0.0259	104	81.6 - 124	
m&p-Xylenes	1	0.05	0.0503	101	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0254	102	70.1 - 125	
Methylene Chloride	1	0.025	0.0254	102	69.5 - 120	
Naphthalene	1	0.025	0.0296	119	69.7 - 134	
n-Butylbenzene	1	0.025	0.0289	115	75.9 - 134	
n-Propylbenzene	1	0.025	0.0263	105	81.9 - 122	
o-Xylene	1	0.025	0.0257	103	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0274	110	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0270	108	80.6 - 126	
Styrene	1	0.025	0.0261	104	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0264	106	79.3 - 127	
Tetrachloroethene	1	0.025	0.0270	108	73.5 - 130	
Toluene	1	0.025	0.0254	102	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0262	105	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0280	112	73.5 - 127	
Trichloroethene	1	0.025	0.0272	109	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0279	112	49.1 - 157	
Vinyl chloride	1	0.025	0.0268	107	61.5 - 134	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0271	108	0.0267	107	78.5 - 125		1.55	20	
1,1,1-Trichloroethane	1	0.025	0.0263	105	0.0276	110	71.1 - 129		4.79	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0279	111	0.0280	112	79.3 - 123		0.41	20	
1,1,2-Trichloroethane	1	0.025	0.0268	107	0.0263	105	81.6 - 120		1.66	20	
1,1-Dichloroethane	1	0.025	0.0256	102	0.0261	104	71.7 - 127		2.03	20	
1,1-Dichloroethene	1	0.025	0.0241	96.3	0.0263	105	59.9 - 137		9.03	20	
1,1-Dichloropropene	1	0.025	0.0254	101	0.0260	104	72.5 - 127		2.65	20	
1,2,3-Trichlorobenzene	1	0.025	0.0277	111	0.0288	115	75.7 - 134		4.01	20	
1,2,3-Trichloropropane	1	0.025	0.0263	105	0.0282	113	74.9 - 124		7.08	20	
1,2,4-Trichlorobenzene	1	0.025	0.0282	113	0.0292	117	76.1 - 136		3.68	20	
1,2,4-Trimethylbenzene	1	0.025	0.0263	105	0.0265	106	79 - 122		0.52	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0259	104	0.0270	108	64.8 - 131		4.17	20	
1,2-Dibromoethane	1	0.025	0.0263	105	0.0269	107	79.8 - 122		2.26	20	
1,2-Dichlorobenzene	1	0.025	0.0257	103	0.0263	105	84.7 - 118		2.49	20	
1,2-Dichloroethane	1	0.025	0.0258	103	0.0264	106	65.3 - 126		2.19	20	
1,2-Dichloropropane	1	0.025	0.0263	105	0.0270	108	77.4 - 125		2.87	20	
1,3,5-Trimethylbenzene	1	0.025	0.0258	103	0.0262	105	81 - 123		1.49	20	
1,3-Dichlorobenzene	1	0.025	0.0269	107	0.0270	108	77.6 - 127		0.54	20	
1,3-Dichloropropane	1	0.025	0.0258	103	0.0254	102	80.6 - 115		1.66	20	
1,4-Dichlorobenzene	1	0.025	0.0252	101	0.0257	103	82.2 - 114		1.85	20	
2,2-Dichloropropane	1	0.025	0.0242	96.9	0.0260	104	61.3 - 134		6.92	20	
2-Butanone (MEK)	1	0.125	0.1469	118	0.1578	126	46.4 - 155		7.15	20	
2-Chlorotoluene	1	0.025	0.0261	104	0.0267	107	76.4 - 125		2.23	20	
2-Hexanone	1	0.125	0.1473	118	0.1559	125	59.4 - 151		5.67	20	
4-Chlorotoluene	1	0.025	0.0261	104	0.0262	105	81.5 - 121		0.56	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1378	110	0.1483	119	63.3 - 138		7.33	20	
Acetone	1	0.125	0.1347	108	0.1471	118	28.7 - 175		8.78	20.9	
Benzene	1	0.025	0.0249	99.8	0.0255	102	73 - 122		2.36	20	
Bromobenzene	1	0.025	0.0255	102	0.0250	99.9	81.5 - 115		2	20	
Bromochloromethane	1	0.025	0.0260	104	0.0265	106	78.9 - 123		1.78	20	
Bromodichloromethane	1	0.025	0.0269	107	0.0270	108	75.5 - 121		0.65	20	
Bromoform	1	0.025	0.0291	117	0.0293	117	71.5 - 131		0.76	20	
Bromomethane	1	0.025	0.0259	104	0.0274	110	22.4 - 187		5.71	20	
Carbon disulfide	1	0.025	0.0247	98.8	0.0254	102	53 - 134		2.78	20	
Carbon tetrachloride	1	0.025	0.0268	107	0.0279	112	70.9 - 129		4.35	20	
Chlorobenzene	1	0.025	0.0255	102	0.0253	101	79.7 - 122		0.66	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0273	109	0.0275	110	78.2 - 124		0.6	20	
Chloroethane	1	0.025	0.0225	89.9	0.0236	94.2	41.2 - 153		4.63	20	
Chloroform	1	0.025	0.0258	103	0.0265	106	73.2 - 125		2.51	20	
Chloromethane	1	0.025	0.0257	103	0.0268	107	55.8 - 134		4.25	20	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.7	0.0257	103	77.3 - 122		3.02	20	
cis-1,3-Dichloropropene	1	0.025	0.0277	111	0.0277	111	77.7 - 124		0.28	20	
Dibromomethane	1	0.025	0.0270	108	0.0274	110	79.5 - 118		1.43	20	
Dichlorodifluoromethane	1	0.025	0.0316	127	0.0332	133	56 - 134		4.8	20	
Ethylbenzene	1	0.025	0.0266	106	0.0261	105	80.9 - 121		1.57	20	
Hexachloro-1,3-butadiene	1	0.025	0.0273	109	0.0287	115	73.7 - 133		5.21	20	
Isopropylbenzene	1	0.025	0.0258	103	0.0259	104	81.6 - 124		0.48	20	
m&p-Xylenes	1	0.05	0.0512	102	0.0503	101	78.5 - 122		1.75	20	
Methyl tert-butyl ether	1	0.025	0.0243	97.3	0.0254	102	70.1 - 125		4.48	20	
Methylene Chloride	1	0.025	0.0245	97.9	0.0254	102	69.5 - 120		3.86	20	
Naphthalene	1	0.025	0.0282	113	0.0296	119	69.7 - 134		5.07	20	
n-Butylbenzene	1	0.025	0.0283	113	0.0289	115	75.9 - 134		1.91	20	
n-Propylbenzene	1	0.025	0.0261	105	0.0263	105	81.9 - 122		0.44	20	
o-Xylene	1	0.025	0.0256	102	0.0257	103	79.1 - 123		0.67	20	
p-Isopropyltoluene	1	0.025	0.0272	109	0.0274	110	77.6 - 129		0.7	20	
sec-Butylbenzene	1	0.025	0.0266	106	0.0270	108	80.6 - 126		1.42	20	
Styrene	1	0.025	0.0263	105	0.0261	104	79.9 - 124		0.96	20	
tert-Butylbenzene	1	0.025	0.0263	105	0.0264	106	79.3 - 127		0.6	20	
Tetrachloroethene	1	0.025	0.0262	105	0.0270	108	73.5 - 130		3.1	20	
Toluene	1	0.025	0.0248	99.3	0.0254	102	77.9 - 116		2.3	20	
trans-1,2-Dichloroethene	1	0.025	0.0248	99.1	0.0262	105	72.6 - 125		5.6	20	
trans-1,3-Dichloropropene	1	0.025	0.0281	112	0.0280	112	73.5 - 127		0.48	20	
Trichloroethene	1	0.025	0.0262	105	0.0272	109	79.5 - 121		3.78	20	
Trichlorofluoromethane	1	0.025	0.0270	108	0.0279	112	49.1 - 157		3.41	20	
Vinyl chloride	1	0.025	0.0257	103	0.0268	107	61.5 - 134		4.1	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Matrix Spike / Matrix Spike Duplicate

L801221-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0270	108	0.0278	111	70.5 - 132		2.7	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0277	111	0.0279	112	58.7 - 134		0.97	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0290	116	0.0298	119	64.9 - 145		2.7	20	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0262	105	0.0267	107	74.1 - 130		1.97	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0259	104	0.0268	107	64 - 134		3.43	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0244	97.6	0.0260	104	48.8 - 144		6.13	20	
1,1-Dichloropropene	1	0.025	<0.0004	0.0266	106	0.0267	107	61.5 - 136		0.32	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0277	111	0.0288	115	65.7 - 143		3.78	20	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0268	107	0.0277	111	71.5 - 134		3.48	20	
1,2,4-Trichlorobenzene	1	0.025	<0.0004	0.0298	119	0.0300	120	67 - 146		0.61	20	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0266	106	0.0273	109	60.5 - 137		2.5	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0271	108	0.0275	110	63.9 - 142		1.45	20.2	
1,2-Dibromoethane	1	0.025	<0.0004	0.0268	107	0.0275	110	73.8 - 131		2.84	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0266	107	0.0262	105	77.4 - 127		1.78	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0260	104	0.0273	109	60.7 - 132		4.8	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0270	108	0.0270	108	69.7 - 130		0.22	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0260	104	0.0270	108	67.9 - 134		3.72	20	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0274	110	0.0290	116	67.9 - 136		5.66	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0256	103	0.0264	106	74.3 - 123		3.14	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0260	104	0.0258	103	74.4 - 123		0.57	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0273	109	0.0274	110	54.9 - 142		0.55	20	
2-Butanone (MEK)	1	0.125	<0.0039	0.0998	79.8	0.1034	82.7	45 - 156		3.57	20.8	
2-Chlorotoluene	1	0.025	<0.0004	0.0264	105	0.0276	110	66.9 - 134		4.55	20	
2-Hexanone	1	0.125	<0.0038	0.1132	90.5	0.1165	93.2	59.4 - 154		2.9	20.1	
4-Chlorotoluene	1	0.025	<0.0004	0.0264	106	0.0274	109	66.8 - 134		3.51	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1420	114	0.1418	113	60.7 - 150		0.14	20	
Acetone	1	0.125	<0.01	0.0586	45.9	0.0594	46.5	25 - 156		1.41	21.5	
Benzene	1	0.025	<0.0003	0.0254	102	0.0261	104	58.6 - 133		2.83	20	
Bromobenzene	1	0.025	<0.0004	0.0251	100	0.0263	105	70.6 - 125		4.78	20	
Bromochloromethane	1	0.025	<0.0005	0.0265	106	0.0281	113	74.4 - 128		6.01	20	
Bromodichloromethane	1	0.025	<0.0004	0.0273	109	0.0275	110	69.2 - 127		0.74	20	
Bromoform	1	0.025	<0.0005	0.0291	116	0.0299	119	66.3 - 140		2.69	20	
Bromomethane	1	0.025	<0.0009	0.0260	104	0.0282	113	16.6 - 183		8.31	20.5	
Carbon disulfide	1	0.025	<0.0003	0.0253	101	0.0264	106	34.9 - 138		4.19	20	
Carbon tetrachloride	1	0.025	<0.0004	0.0274	110	0.0299	120	60.6 - 139		8.78	20	
Chlorobenzene	1	0.025	<0.0003	0.0258	103	0.0264	106	70.1 - 130		2.14	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Matrix Spike / Matrix Spike Duplicate

L801221-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0278	111	0.0290	116	71.6 - 132		4.26	20	
Chloroethane	1	0.025	<0.0005	0.0239	95.6	0.0248	99.2	33.3 - 155		3.7	20	
Chloroform	1	0.025	<0.0003	0.0265	106	0.0276	110	66.1 - 133		4.22	20	
Chloromethane	1	0.025	<0.0003	0.0274	110	0.0296	119	40.7 - 139		7.74	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0257	103	0.0264	106	60.6 - 136		2.79	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0275	110	0.0281	112	71.1 - 129		2.13	20	
Dibromomethane	1	0.025	<0.0003	0.0279	112	0.0290	116	72.8 - 127		3.95	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0336	134	0.0335	134	42.2 - 146		0.21	20	
Ethylbenzene	1	0.025	<0.0004	0.0264	106	0.0267	107	62.7 - 136		1.31	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0291	117	0.0290	116	61.1 - 144		0.46	20.1	
Isopropylbenzene	1	0.025	<0.0003	0.0261	104	0.0267	107	67.4 - 136		2.42	20	
m&p-Xylenes	1	0.05	<0.0007	0.0511	102	0.0525	105	64.1 - 133		2.57	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0255	102	0.0259	104	61.4 - 136		1.78	20	
Methylene Chloride	1	0.025	<0.001	0.0253	101	0.0260	104	61.5 - 125		2.8	20	
Naphthalene	1	0.025	<0.001	0.0294	118	0.0303	121	61.8 - 143		2.98	20	
n-Butylbenzene	1	0.025	<0.0004	0.0297	119	0.0293	117	64.8 - 145		1.42	20	
n-Propylbenzene	1	0.025	<0.0003	0.0263	105	0.0272	109	63.2 - 139		3.34	20	
o-Xylene	1	0.025	<0.0003	0.0257	103	0.0266	106	67.1 - 133		3.47	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0274	109	0.0285	114	62.8 - 143		4.08	20	
sec-Butylbenzene	1	0.025	<0.0004	0.0270	108	0.0276	111	66.8 - 139		2.47	20	
Styrene	1	0.025	<0.0003	0.0272	109	0.0273	109	68.2 - 133		0.35	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0264	106	0.0273	109	67.1 - 138		3.29	20	
Tetrachloroethene	1	0.025	<0.0004	0.0259	104	0.0266	107	57.4 - 141		2.71	20	
Toluene	1	0.025	<0.0008	0.0253	101	0.0254	102	67.8 - 124		0.65	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0258	103	0.0266	106	61 - 132		2.87	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0287	115	0.0297	119	66.3 - 136		3.17	20	
Trichloroethene	1	0.025	<0.0004	0.0267	107	0.0267	107	48.9 - 148		0.14	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0291	116	0.0294	117	39.9 - 165		0.85	20	
Vinyl chloride	1	0.025	<0.0003	0.0262	105	0.0277	111	44.3 - 143		5.47	20	

Parameters in bold text are reported in this SDG

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Mt. Juliet, TN 37122
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(800) 767-5859
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Internal Standard Response and Retention Time Summary

File ID: 1118_02
Analyzed: 11/18/15 020300

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	253867	4.10	435347	4.43	77785	5.58	177714	7.97
Upper Limit	508000	4.60	871000	4.93	156000	6.08	355000	8.47
Lower Limit	127000	3.60	218000	3.93	38900	5.08	88900	7.47
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L801110-01	215804	4.10	383907	4.43	66646	5.58	142848	7.97
L801110-02	237466	4.10	412348	4.43	72047	5.58	165846	7.97
MSD WG829608	249646	4.10	447360	4.43	77760	5.58	184183	7.97
MS WG829608	252150	4.10	438996	4.43	78057	5.58	176765	7.97
LCSD WG829608	257723	4.10	449948	4.43	80311	5.58	184373	7.97
LCS WG829608	273105	4.10	477778	4.43	82858	5.58	192594	7.97
BLANK WG829608	252564	4.10	448814	4.43	75035	5.58	163006	7.97

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: L801110
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/12/2015	**Analytic Batch:**	**WG829608**
Analysis Date:	11/18/2015	Analyst:	077
Instrument ID:	VOCMS18		
Sample Numbers:	L801110-01, -02		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L801110-01	VOCMS18	1118_16	0.0374	93.4	0.0416	104	0.0408	102		
L801110-02	VOCMS18	1118_17	0.0401	100	0.0398	99.5	0.0407	102		
LCS WG829608	VOCMS18	1118_03	0.0392	98.1	0.0401	100	0.0408	102	0.0406	101
LCSD WG829608	VOCMS18	1118_04	0.0388	96.9	0.0400	99.9	0.0410	102	0.0416	104
BLANK WG829608	VOCMS18	1118_09	0.0392	97.9	0.0404	101	0.0411	103	0.0418	104
MS WG829608	VOCMS18	1118_10	0.0386	96.4	0.0413	103	0.0414	103	0.0417	104
MSD WG829608	VOCMS18	1118_11	0.0399	99.7	0.0408	102	0.0403	101	0.0406	101

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/12/2015
Instrument ID: VOCMS18

Instrument Performance Summary

FileID: 1118_02.D Date: 11/18/2015 Time: 2:03 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	20.4
75	30 - 60% of mass 95	51.4
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.4
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	72.9
175	5 - 9% of mass 174	8.1
176	95 - 101% of mass 174	95.2
177	5 - 9% of mass 176	6.1

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG829608	LCS WG829608	1118_03.D	11/18/2015	2:45 AM
LCSD WG829608	LCSD WG829608	1118_04.D	11/18/2015	3:06 AM
Blank WG829608	Blank WG829608	1118_09.D	11/18/2015	4:48 AM
MS WG829608	MS WG829608	1118_10.D	11/18/2015	5:08 AM
MSD WG829608	MSD WG829608	1118_11.D	11/18/2015	5:28 AM
TU904-TMW01-NT01	L801110-01	1118_16.D	11/18/2015	7:09 AM
TU904-TMW03-NT01	L801110-02	1118_17.D	11/18/2015	7:30 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS18
Method Name : V818K11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION	1980	2321	2918	2898	2771	2727	2805	2765		2648.154	12.35
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.220882	15.30
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.479550	9.58
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.873331	4.85
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.882788	6.58
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.740	0.785	0.765	0.760	0.768	0.769625	4.08
BROMOMETHANE	0.455	0.452	0.520	0.508	0.509	0.546	0.558	0.540	0.550	0.514279	7.21
CHLOROETHANE	0.613	0.687	0.678	0.608	0.560	0.582	0.572	0.560	0.559	0.589889	8.96
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.810	0.907	0.878	0.884	0.880	0.856029	7.08
DICHLOROFLUOROMETHANE	1.008	1.170	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.251167	7.29
ETHYL ETHER	0.418	0.544	0.588	0.580	0.531	0.589	0.568	0.571	0.552	0.552664	8.73
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.084468	13.57
1,1-DICHLOROETHENE	0.849	1.027	1.110	1.098	1.039	1.099	1.088	1.085	1.085	1.061431	7.07
1,1,2-TRICHLOROTRIFLUOROETHANE	0.500	0.556	0.596	0.622	0.595	0.632	0.610	0.614	0.605	0.597997	6.48
ACETONE			0.368	0.350	0.274	0.321	0.292	0.303	0.274	0.308748	10.93
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.880740	9.03
CARBON DISULFIDE	2.198	2.040	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.296660	6.30
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.610	0.678	0.657	0.659	0.644	0.666894	4.53
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.190	0.197	0.186	0.180464	11.95
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.770658	5.63
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.650	0.646	0.657	0.639988	4.15
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.600	1.579969	5.72
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.350	1.344	1.343	1.347	1.306514	6.32
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.180	1.111081	8.94
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.534033	5.77
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.789588	4.99
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.676138	3.92
2-BUTANONE (MEK)	0.232	0.294	0.306	0.320	0.289	0.363	0.339	0.358	0.333	0.324989	13.66

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS18
Method Name : V818K11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.310	0.339	0.339	0.336	0.330	0.324353	5.14
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.173262	10.63
CHLOROFORM	0.869	1.055	1.106	1.106	1.060	1.120	1.122	1.122	1.109	1.083711	6.97
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.506745	2.22
1,1,1-TRICHLOROETHANE	0.700	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.890	0.849376	6.98
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.740	0.711477	6.86
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.919669	7.65
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.336702	3.95
HEPTANE	1.485	1.631	1.566	1.453	1.500	1.576	1.593	1.589	1.646	1.586310	5.31
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.869907	3.53
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.766621	5.50
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.340	0.345	0.334104	6.58
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.300	0.300	0.308	0.306	0.309	0.309	0.293802	10.39
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.180	0.179	0.184	0.176	0.171316	8.69
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.460	0.435	0.471	0.462	0.470	0.470	0.456888	4.35
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.514534	2.65
2-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.130	0.151	0.154	0.159	0.142	0.138326	13.99
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.620	0.618	0.575704	10.03
4-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.308904	10.01
TOLUENE-D8	1.261	1.280	1.277	1.262	1.260	1.268	1.256	1.260	1.243	1.253546	1.99
TOLUENE	1.866	1.738	1.793	1.730	1.612	1.651	1.651	1.652	1.634	1.691449	4.74
TRANS-1,3-DICHLOROPROPENE		0.409	0.430	0.424	0.442	0.495	0.529	0.530	0.531	0.489356	11.71
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.570	1.455	1.588	1.544	1.562	1.510	1.517137	7.77
TETRACHLOROETHENE	1.230	1.436	1.464	1.536	1.404	1.530	1.490	1.486	1.504	1.478079	7.01
1,3-Dichloropropane	2.422	3.128	3.050	3.104	2.914	3.078	3.055	3.099	3.019	3.021219	7.13
2-HEXANONE	0.248	0.440	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.663383	29.10
CHLORODIBROMOMETHANE	1.257	1.300	1.489	1.413	1.340	1.555	1.536	1.578	1.560	1.489632	9.83
1,2-DIBROMOETHANE	1.258	1.270	1.380	1.321	1.372	1.485	1.450	1.489	1.444	1.411643	7.09
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.314441	7.78

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS18
Method Name : V818K11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.640	1.598	1.658	1.641	1.559351	10.44
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.039157	9.36
M&P-XYLENE	3.398	3.626	3.891	3.736	3.600	3.802	3.821	3.817	3.900	3.809873	6.21
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.538372	5.06
STYRENE		4.444	4.439	5.079	4.961	5.590	5.809	5.941	5.988	5.489971	13.10
Bromoform		0.828	0.702	0.740	0.698	0.860	0.849	0.876	0.870	0.836162	11.92
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	9.46399	7.20
4-BROMOFLUOROBENZENE	2.470	2.480	2.576	2.547	2.494	2.570	2.552	2.567	2.560	2.545988	1.74
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.494305	7.66
1,1,2,2-TETRACHLOROETHANE	1.420	1.694	1.991	2.012	1.833	2.104	2.000	2.050	1.959	1.939294	11.43
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.501481	6.58
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.340	0.469	0.277	0.407	0.463	0.479	0.486	0.414012	23.05
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	11.97942	7.55
4-ETHYLTOLUENE	7.43	8.31	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.16453	8.74
2-Chlorotoluene	1.469	1.888	2.033	2.130	1.988	2.145	2.160	2.141	2.164	2.067025	11.46
4-Chlorotoluene	5.811	6.158	6.800	6.637	6.381	6.929	6.873	6.987	7.012	6.740906	6.96
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.200	8.102	7.950257	8.78
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.050	6.536	6.464	6.504	6.394	6.181761	9.01
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.556878	6.64
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.60	10.74	10.35	10.20002	7.13
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.820	3.640562	11.85
p-Isopropyltoluene	6.233	7.098	7.620	7.807	7.588	8.363	8.418	8.463	8.134	7.901249	9.38
DICYCLOPENTADIENE	8.80	9.93	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.09352	8.59
1,4-DICHLOROBENZENE	1.687	1.670	1.727	1.720	1.609	1.718	1.682	1.673	1.684	1.696523	2.69
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.510	3.507	3.483	3.469171	3.98
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.519136	6.25
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.376328	14.03
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.109658	33.39
1,2,4-Trichlorobenzene	0.658	0.715	0.870	0.871	0.908	1.014	0.996	1.020	0.959	0.894976	13.08

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS18
Method Name : V818K11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.532155	11.72
Naphthalene	2.125	2.025	2.016	2.076	1.930	2.226	2.153	2.298	2.201	2.146093	5.76
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.850	0.946	0.895	0.943	0.851	0.885053	6.05
1-Methylnaphthalene										0.000000	0.00
2-Methylnaphthalene										0.000000	0.00
ETHANOL										0.007198	10.58
Bromoethane										0.580142	2.39
2-PROPANOL										0.036319	9.89
Methyl Acetate										0.428877	3.85
ACETONITRILE										0.067504	4.12
ALLYL CHLORIDE										0.359594	1.76
tert-BUTYL ALCOHOL										0.148373	11.78
chloroprene										1.187464	1.50
ETHYL TERT-BUTYL ETHER										2.111163	2.09
PROPIONITRILE										0.077794	5.38
Ethyl Acetate										0.554415	4.34
METHACRYLONITRILE										0.237878	3.26
Cyclohexane										1.570327	1.49
tert-butyl formate										0.420979	7.65
ISOBUTANOL										0.037761	4.06
t-Amyl Alcohol										0.047363	7.67
TERT-AMYL METHYL ETHER										2.168411	2.17
N-BUTANOL										0.008927	12.39
Methyl Cyclohexane										1.105853	12.58
2-nitropropane										0.084174	5.20
METHYL METHACRYLATE										0.332858	4.21
1,4-DIOXANE										0.003096	4.84
n-octane										0.408474	2.10
3,3-DIMETHYL-1-BUTANOL										0.032146	15.02

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Est. 1970

Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS18
Method Name : V818K11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.318215	7.07
CIS-1,4-DICHLORO-2-BUTENE										0.526166	8.68
Cyclohexanone										0.367163	11.46
PENTACHLOROETHANE										1.130098	4.67
Hexachloroethane										1.382554	3.19

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/12/2015
Instrument ID: VOCMS18

Method Name : V818K11O.M Date : 11/18/2015
FileName : 1118_02.D Time : 2:03 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Dichlorodifluoromethane	0.4796	0.6968	45.3	
Chloromethane	0.8733	1.0292	17.8	>0.1
Vinyl chloride	0.8828	0.9779	10.8	
Bromomethane	0.5143	0.5693	10.7	
Chloroethane	0.5899	0.5707	3.26	
Trichlorofluoromethane	0.8560	0.9923	15.9	
1,1-Dichloroethene	1.0614	0.9922	6.52	
Acetone	0.3087	0.3404	10.3	
Carbon Disulfide	2.2967	2.1684	5.58	
Methylene Chloride	0.6669	0.6702	0.5	
trans-1,2-Dichloroethene	0.6400	0.6634	3.66	
Methyl tert-butyl ether	1.5800	1.6088	1.83	
1,1-Dichloroethane	1.3065	1.3759	5.31	>0.1
2,2-Dichloropropane	0.7896	0.8434	6.81	
cis-1,2-Dichloroethene	0.6761	0.7015	3.75	
2-Butanone (MEK)	0.3250	0.3966	22	
Bromochloromethane	0.3244	0.3506	8.08	
Chloroform	1.0837	1.1511	6.21	
1,1,1-Trichloroethane	0.8494	0.9360	10.2	
Carbon tetrachloride	0.7115	0.8012	12.6	
1,1-Dichloropropene	0.9197	0.9610	4.5	
Benzene	2.8699	2.9074	1.31	
1,2-Dichloroethane	0.7666	0.7972	3.99	
Trichloroethene	0.3341	0.3727	11.6	
1,2-Dichloropropane	0.2938	0.3283	11.7	
Dibromomethane	0.1713	0.1928	12.5	
Bromodichloromethane	0.4569	0.5184	13.5	
cis-1,3-Dichloropropene	0.5757	0.6555	13.9	
4-Methyl-2-pentanone (MIBK)	0.3089	0.3662	18.5	
Toluene	1.6914	1.7729	4.81	
trans-1,3-Dichloropropene	0.4894	0.5557	13.6	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/12/2015
Instrument ID: VOCMS18

Method Name : V818K11O.M Date : 11/18/2015
FileName : 1118_02.D Time : 2:03 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.5171	1.5980	5.33	
Tetrachloroethene	1.4781	1.6148	9.25	
1,3-Dichloropropane	3.0212	3.1655	4.78	
2-Hexanone	0.6634	0.9596	44.7	**
Chlorodibromomethane	1.4896	1.6791	12.7	
1,2-Dibromoethane	1.4116	1.5332	8.61	
Chlorobenzene	5.3144	5.5523	4.48	>0.3
1,1,1,2-Tetrachloroethane	1.5594	1.7408	11.6	
Ethylbenzene	3.0392	3.2361	6.48	
m&p-Xylene	3.8099	3.9461	3.58	
o-Xylene	3.5384	3.7773	6.75	
Styrene	5.4900	5.8866	7.23	
Bromoform	0.8362	0.9680	15.8	>0.1
Isopropylbenzene	9.4640	10.1757	7.52	
Bromobenzene	4.4943	4.7250	5.13	
1,1,2,2-Tetrachloroethane	1.9393	2.2215	14.6	>0.3
1,2,3-Trichloropropane	0.5015	0.5550	10.7	
n-Propylbenzene	11.9794	13.1680	9.92	
2-Chlorotoluene	2.0670	2.2795	10.3	
4-Chlorotoluene	6.7409	7.3481	9.01	
1,3,5-Trimethylbenzene	7.9503	8.6100	8.3	
tert-Butylbenzene	6.1818	6.9175	11.9	
1,2,4-Trimethylbenzene	7.5569	8.2608	9.32	
sec-Butylbenzene	10.2000	11.5258	13	
1,3-Dichlorobenzene	3.6406	4.1229	13.2	
p-Isopropyltoluene	7.9012	8.9340	13.1	
1,4-Dichlorobenzene	1.6965	1.7924	5.65	
1,2-Dichlorobenzene	1.5191	1.6656	9.64	
n-Butylbenzene	3.3763	4.1036	21.5	
1,2-Dibromo-3-Chloropropane	0.1097	0.1397	27.4	**
1,2,4-Trichlorobenzene	0.8950	1.0806	20.7	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801110
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/12/2015
Instrument ID: VOCMS18

Method Name : V818K11O.M Date : 11/18/2015
FileName : 1118_02.D Time : 2:03 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Hexachloro-1,3-butadiene	0.5322	0.6403	20.3
Naphthalene	2.1461	2.4980	16.4
1,2,3-Trichlorobenzene	0.8851	1.0144	14.6

*** - calibrated by linear regression*

Raw Data

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Glen Norton
Date Released : 2/3/2016 5:03:00 PM

Run ID : 111815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1118_01	INSTBLK	V818K11O						1	1	11/18/15 0143	"water"
2	1118_02	ICV VMS 25 PPB	V818K11O						1	1	11/18/15 0203	"water"
2	1118_02-1	ICV VMS 25 PPB	V818K11O						1	1	11/18/15 0203	"water"
3	1118_02T	ICV								1	11/18/15 0203	
4	1118_03	LCS	V818K11O	WG829608	V624	WW			1	1	11/18/15 0245	"water"
4	1118_03-2	LCS	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0245	"water"
4	1118_03-3	LCS	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0245	"water"
5	1118_04	LCSD	V818K11O	WG829608	V624	WW			1	1	11/18/15 0306	"water"
5	1118_04-2	LCSD	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0306	"water"
5	1118_04-3	LCSD	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0306	"water"
6	1118_05	1PPB	V818K11O						1	1	11/18/15 0326	"water"
7	1118_06	AP9	V818K11O						1	1	11/18/15 0347	"water "
8	1118_07	LCS	V818K11O	WG829608	V624	WW			1	1	11/18/15 0407	"water "
8	1118_07-2	LCS	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0407	"water "
8	1118_07-3	LCS	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0407	"water "
9	1118_08	INSTBLK	V818K11O						1	1	11/18/15 0427	"soil"
10	1118_09	BLANK	V818K11O	WG829608	V624	WW			1	1	11/18/15 0448	"water "
10	1118_09-2	BLANK	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0448	"water "
10	1118_09-3	BLANK	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0448	"water "
11	1118_10	MS	V818K11O	WG829608	V624	WW			1	1	11/18/15 0508	"water"
11	1118_10-2	MS	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0508	"water"
11	1118_10-3	MS	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0508	"water"
12	1118_11	MSD	V818K11O	WG829608	V624	WW			1	1	11/18/15 0528	"water"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Glen Norton
Date Released : 2/3/2016 5:03:00 PM

Run ID : 111815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
12	1118_11-2	MSD	V818K11O	WG829608	V8260	GW	PIEGEO		1	1	11/18/15 0528	"water"
12	1118_11-3	MSD	V818K11O	WG829608	V8260	GW	URSTAZ		1	1	11/18/15 0528	"water"
13	1118_12	INSTBLK	V818K11O						1	1	11/18/15 0548	"water"
14	1118_13	L801187-22	V818K11O	WG829608	V8260HEX	GW	PARENVOH	OH	1	1	11/18/15 0609	"water"
15	1118_14	L801221-01	V818K11O	WG829608	V8260	GW	TERRASATX	TX	1	1	11/18/15 0629	"water"
16	1118_15	L800862-23	V818K11O	WG829608	V8260	GW	PIEGEO	MS	20	20	11/18/15 0649	"water"
17	1118_16	L801110-01	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0709	"water"
18	1118_17	L801110-02	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0730	"water"
19	1118_18	L801111-01	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0750	"water"
20	1118_19	L801111-04	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0811	"water"
21	1118_20	L801111-06	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0831	"water"
22	1118_21	L801322-01	V818K11O	WG829608	V624	WW	WEAAERWTX	TX	1	1	11/18/15 0852	"water"
23	1118_22	L801111-07	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0912	"water"
24	1118_23	L801111-10	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0932	"water"
25	1118_24	L801165-01	V818K11O	WG829608	V8260	GW	URSTAZ	NM	1	1	11/18/15 0952	"water"
26	1118_25	L801172-01	V818K11O	WG829608	V8260OXY	GW	CTEHLRAR	IL	1	1	11/18/15 1012	"water"
27	1118_26	L801172-02	V818K11O	WG829608	V8260OXY	GW	CTEHLRAR	IL	1	1	11/18/15 1032	"water"
28	1118_27	L801172-03	V818K11O	WG829608	V8260OXY	GW	CTEHLRAR	IL	1	1	11/18/15 1053	"water"
29	1118_28	L801186-01	V818K11O	WG829608	V8260	GW	JOHNCULB	TN	1	1	11/18/15 1113	"water"
30	1118_29	L801186-02	V818K11O	WG829608	V8260	GW	JOHNCULB	TN	1	1	11/18/15 1134	"water"
31	1118_30	L801357-07	V818K11O	WG829608	V8260	GW	AWPROMNC	IL	1	1	11/18/15 1154	"water"
32	1118_31	L801357-08	V818K11O	WG829608	V8260	GW	AWPROMNC	IL	1	1	11/18/15 1214	"water"
33	1118_32	L801357-09	V818K11O	WG829608	V8260	GW	AWPROMNC	IL	1	1	11/18/15 1234	"water"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Glen Norton
Date Released : 2/3/2016 5:03:00 PM

Run ID : 111815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
34	1118_33	INSTBLK	V818K11O						1	1	11/18/15 1406	"soil"
35	1118_34	ICV VMS 25 PPB 15K17631	V818K11O						1	1	11/18/15 1427	"soil"
35	1118_34-1	ICV VMS 25 PPB 15K17631	V818K11O						1	1	11/18/15 1427	"soil"
36	1118_34T	ICV	V818K11O							1	11/18/15 1427	
37	1118_35	DNR ICV GROMS 5.0 PPM 15K06943	V818K11O						1	1	11/18/15 1447	"soil"
38	1118_36	AP9CV 10A PPB 15H20824	V818K11O						1	1	11/18/15 1507	"soil"
39	1118_37	LCS	V818K11O	WG829805					1	1	11/18/15 1527	"soil"
40	1118_38	LCSD	V818K11O	WG829805					1	1	11/18/15 1548	"soil"
41	1118_39	DNR LCSGRO	V818K11O	WG829805					1	1	11/18/15 1641	"soil"
42	1118_40	DNR LCSDGRO	V818K11O	WG829805					1	1	11/18/15 1702	"soil"
43	1118_41	LCSAP9	V818K11O						1	1	11/18/15 1722	"soil"
44	1118_42	1PPB	V818K11O						1	1	11/18/15 1742	"soil"
45	1118_43	INSTBLK	V818K11O						1	1	11/18/15 1802	"soil"
46	1118_44	BLANK	V818K11O	WG829805					1	1	11/18/15 1822	"soil"
47	1118_45	MB	V818K11O						1	1	11/18/15 1843	"soil"
48	1118_46	CCV VMS 25 PPB 15K17631	V818K11O						1	1	11/18/15 1903	"soil"
49	1118_46T	CCV VMS 25 ppb 15K17631	V818K11O							1	11/18/15 1903	

Environmental Science Corporation
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Injection Log

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#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
50	1118_47	DNR CCV GROMS 5.0 PPM 15K06943	V818K11O						1	1	11/18/15 1924	"soil"
51	1118_48	AP9CV 10A PPB 15H20824	V818K11O						1	1	11/18/15 1944	"soil"
52	1118_49	MS	V818K11O	WG829037	V8260TPHKS	SS			1	1	11/18/15 2023	"soil"
53	1118_50	MSD	V818K11O	WG829037	V8260TPHKS	SS			1	1	11/18/15 2043	"soil"
54	1118_51	DNR MSGRO	V818K11O	WG829037					1	1	11/18/15 2103	"soil"
55	1118_52	DNR MSDGRO	V818K11O	WG829037					1	1	11/18/15 2153	"soil"
56	1118_53	MS	V818K11O	WG829805					1	1	11/18/15 2213	"soil"
57	1118_54	MSD	V818K11O	WG829805					1	1	11/18/15 2234	"soil"
58	1118_55	DNR MSGRO	V818K11O	WG829805					1	1	11/18/15 2254	"soil"
59	1118_56	DNR MSDGRO	V818K11O	WG829805					1	1	11/18/15 2315	"soil"
60	1118_57	INSTBLK	V818K11O						1	1	11/18/15 2335	"soil"
61	1118_58	L800857-01	V818K11O	WG829037	V8260TPHMO	SS	ATCLKS	MO	1	0.78	11/18/15 2355	"soil"
62	1118_59	L801522-01	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.72	11/19/15 0016	"soil"
63	1118_60	L801522-02	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.81	11/19/15 0036	"soil"
64	1118_61	L801522-03	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.77	11/19/15 0057	"soil"
65	1118_62	L801522-04	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.79	11/19/15 0117	"soil"
66	1118_63	L801522-05	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.73	11/19/15 0137	"soil"
67	1118_64	L801522-06	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.77	11/19/15 0157	"soil"
68	1118_65	L801522-07	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.76	11/19/15 0217	"soil"
69	1118_66	L801522-08	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.79	11/19/15 0237	"soil"
70	1118_67	L801522-09	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.77	11/19/15 0257	"soil"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Glen Norton
Date Released : 2/3/2016 5:03:00 PM
Run ID : 111815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
71	1118_68	L801522-10	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.83	11/19/15 0317	"soil"
72	1118_69	L801522-11	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.75	11/19/15 0337	"soil"
73	1118_70	L801522-12	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.8	11/19/15 0358	"soil"
74	1118_71	L801522-13	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.7	11/19/15 0418	"soil"
75	1118_72	L801522-14	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.74	11/19/15 0438	"soil"
76	1118_73	L801522-15	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.74	11/19/15 0458	"soil"
77	1118_74	L801522-16	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.78	11/19/15 0519	"soil"
78	1118_75	L801522-17	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1.01	1.01	11/19/15 0539	"soil"
79	1118_76	L801522-18	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.85	11/19/15 0559	"soil"
80	1118_77	L801522-19	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.91	11/19/15 0619	"soil"
81	1118_78	L801522-20	V818K11O	WG829805	V8260TPHMO	SS	AQUAOPKS	MO	1	0.76	11/19/15 0639	"soil"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 02.D
Acq On : 18 Nov 2015 2:03 am
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 02:29:00 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	253867	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	435347	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	77785	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	177714	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	253867	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	435347	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	77785	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	177714	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	127265	39.5706267 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.93%		
46) a,a,a-Trifluorotoluene	4.791	146	230211	41.1089352 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.77%		
50) TOLUENE-D8	5.247	98	560434	41.0779512 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.69%		
68) 4-BROMOFLUOROBENZENE	7.127	95	194521	39.2893038 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.22%		
Target Compounds					Qvalue
3) PROPENE	1.548	41	12022	8.5756923 ppb	96
4) DICHLORODIFLUOROMETHANE	1.591	85	110561	36.3263647 ppb	99
5) CHLOROMETHANE	1.737	50	163294	29.4608462 ppb	99
6) VINYL CHLORIDE	1.816	62	155156	27.6927286 ppb	99
7) 1,3-BUTADIENE	1.816	39	88064	18.0290627 ppb	96
8) BROMOMETHANE	2.047	94	90332	27.6755830 ppb	99
9) CHLOROETHANE	2.138	64	90545	24.1850847 ppb	99
10) TRICHLOROFLUOROMETHANE	2.223	101	157446	28.9798977 ppb	100
11) DICHLOROFLUOROMETHANE	2.254	67	205163	25.8367375 ppb	98
12) ETHYL ETHER	2.406	59	81002	23.0934400 ppb	99
13) ACROLEIN	2.741	56	81316	151.6837751 ppb	99
14) 1,1-DICHLOROETHENE	2.540	61	157426	23.3689172 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	93317	24.5875756 ppb	99
16) ACETONE	2.905	43	270081	137.8298891 ppb	100
17) IODOMETHANE	2.637	142	682111	122.0284071 ppb	100
18) CARBON DISULFIDE	2.576	76	344060	23.6043007 ppb	98
19) METHYLENE CHLORIDE	2.880	84	106346	25.1256849 ppb	100
20) ACRYLONITRILE	3.349	53	155978	136.1840002 ppb	100
21) n-Hexane	3.008	56	116625	23.8442523 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.978	96	105260	25.9146632 ppb	97
23) METHYL TERT-BUTYL ETHER	3.026	73	255269	25.4567597 ppb	95
24) 1,1-DICHLOROETHANE	3.325	63	218310	26.3277226 ppb	100
25) VINYL ACETATE	3.434	43	1010790	143.3405105 ppb	100
26) DI-ISOPROPYL ETHER	3.221	45	406419	25.2705918 ppb	100
27) 2,2-Dichloropropane	3.684	77	133819	26.7036840 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.623	96	111309	25.9387208 ppb	99
29) 2-BUTANONE (MEK)	3.927	43	314657	152.5536008 ppb	98
30) BROMOCHLOROMETHANE	3.732	130	55622	27.0198298 ppb	97
31) TETRAHYDROFURAN	3.860	42	27709	25.1983045 ppb	100
32) CHLOROFORM	3.763	83	182634	26.5535158 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.890	97	148506	27.5484782 ppb	99
35) CARBON TETRACHLORIDE	3.854	117	127121	28.1520652 ppb	99
36) 1,1-Dichloropropene	3.957	75	152482	26.1240608 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 02.D
Acq On : 18 Nov 2015 2:03 am
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 02:29:00 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.000	57	554630	26.1902488 ppb		98
38)	HEPTANE	4.042	43	255815	25.4092438 ppb	#	98
39)	BENZENE	4.097	78	461310	25.3267124 ppb		100
40)	1,2-DICHLOROETHANE	4.207	62	126490	25.9973689 ppb		98
42)	TRICHLOROETHENE	4.420	130	101412	27.8889682 ppb		98
43)	1,2-DICHLOROPROPANE	4.730	62	89324	27.9343146 ppb		97
44)	DIBROMOMETHANE	4.675	93	52462	28.1365981 ppb		99
45)	BROMODICHLOROMETHANE	4.754	83	141039	28.3630858 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.071	63	256638	170.4674173 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.131	75	178361	28.4658963 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.496	43	498167	148.1755003 ppb		99
51)	TOLUENE	5.284	91	482379	26.2031801 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.533	75	151210	28.3909736 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.642	97	77688	26.3325683 ppb		99
55)	TETRACHLOROETHENE	5.533	164	78504	27.3122996 ppb		98
56)	1,3-Dichloropropane	5.825	76	153894	26.1941111 ppb		100
57)	2-HEXANONE	6.044	58	233264	147.4309373 ppb		98
58)	CHLORODIBROMOMETHANE	5.770	129	81630	28.1796158 ppb		99
59)	1,2-DIBROMOETHANE	5.941	107	74536	27.1522149 ppb		99
60)	CHLOROBENZENE	6.281	112	269929	26.1189722 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.318	133	84629	27.9086968 ppb	#	98
62)	ETHYLBENZENE	6.281	106	157324	26.6198742 ppb		96
63)	M&P-XYLENE	6.379	106	383689	51.7884599 ppb		97
64)	O-XYLENE	6.689	106	183636	26.6881468 ppb		98
65)	STYRENE	6.725	104	286183	26.8063666 ppb		98
66)	Bromoform	6.762	173	47059	28.9412011 ppb		99
67)	Isopropylbenzene	6.902	105	494698	26.8800388 ppb		99
69)	Bromobenzene	7.212	77	229710	26.2833978 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.255	83	108002	28.6386312 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.370	110	26981	27.6673645 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.394	53	27997	29.2357077 ppb	#	96
73)	n-Propylbenzene	7.206	91	640172	27.4805180 ppb		100
74)	4-ETHYLTOLUENE	7.285	105	496284	27.8473852 ppb		100
75)	2-Chlorotoluene	7.340	126	110818	27.5694917 ppb		98
76)	4-Chlorotoluene	7.461	91	357232	27.2518654 ppb		100
77)	1,3,5-Trimethylbenzene	7.346	105	418580	27.0745609 ppb		99
78)	tert-Butylbenzene	7.589	119	336300	27.9755581 ppb		99
79)	1,2,4-Trimethylbenzene	7.644	105	401606	27.3288854 ppb		100
80)	sec-Butylbenzene	7.729	105	560332	28.2493495 ppb		100
81)	1,3-DICHLOROBENZENE	7.918	146	200439	28.3124827 ppb		100
82)	p-Isopropyltoluene	7.833	119	434331	28.2676188 ppb		100
83)	DICYCLOPENTADIENE	7.833	66	588225	27.2670638 ppb		100
85)	1,4-DICHLOROBENZENE	7.985	146	199084	26.4128303 ppb		96
86)	1,2,3-TRIMETHYLBENZENE	7.985	105	410862	26.6568350 ppb		100
87)	1,2-DICHLOROBENZENE	8.319	146	185002	27.4105748 ppb		98
88)	n-Butylbenzene	8.167	91	455789	30.3848788 ppb		100
89)	1,2-Dibromo-3-chloropr...	8.964	157	15521	26.1365704 ppb		96
90)	1,2,4-Trichlorobenzene	9.512	180	120025	30.1855135 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.475	225	71121	30.0813909 ppb		99
92)	Naphthalene	9.785	128	277455	29.0992840 ppb		100
93)	1,2,3-Trichlorobenzene	9.944	180	112676	28.6550139 ppb		98
100)	Methyl Acetate	3.014	43	191078	70.1990956 ppb	#	69
101)	ACETONITRILE	3.227	41	63926	149.2116717 ppb	#	41
103)	tert-BUTYL ALCOHOL	3.069	59	3637	3.8622784 ppb	#	61

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 02.D
Acq On : 18 Nov 2015 2:03 am
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 02:29:00 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

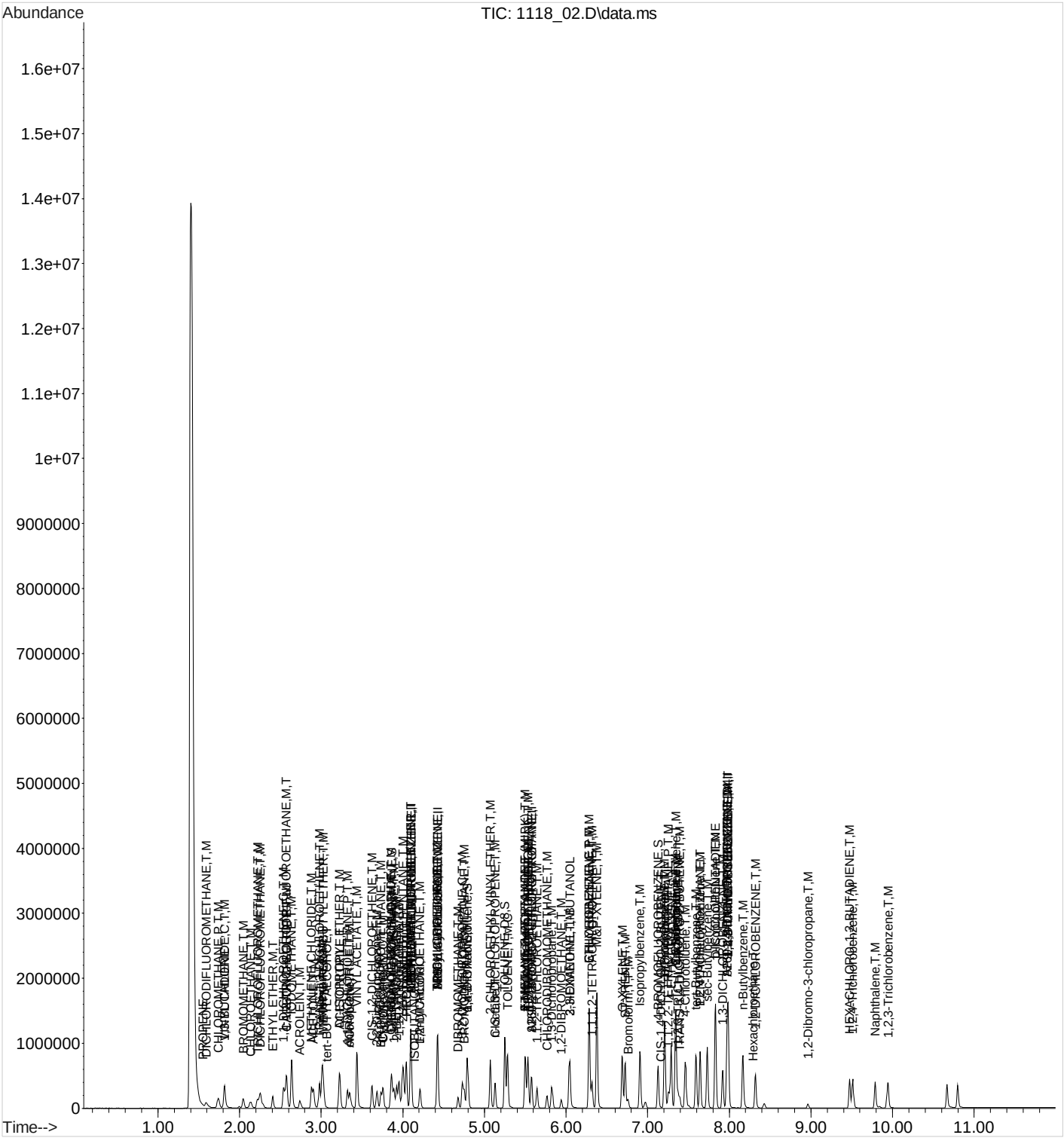
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) chloroprene	3.349	53	155978	20.6964931 ppb #	26
106) PROPIONITRILE	4.042	54	2291	4.6401412 ppb #	1
108) METHACRYLONITRILE	4.103	67	886	0.5868590 ppb #	1
109) Cyclohexane	3.757	84	7454	0.7479164 ppb #	2
111) ISOBUTANOL	4.146	43	969	4.0433020 ppb #	28
112) t-Amyl Alcohol	4.207	59	2921	9.7172555 ppb #	55
113) TERT-AMYL METHYL ETHER	4.097	73	8333	0.6054992 ppb #	55
116) Methyl Cyclohexane	4.426	83	8491	0.7054816 ppb #	43
117) 2-nitropropane	5.496	43	498167	543.7798770 ppb #	39
119) 1,4-DIOXANE	4.791	88	3023	89.7002456 ppb #	32
120) n-octane	5.131	85	2762	0.6212741 ppb #	20
121) 3,3-DIMETHYL-1-BUTANOL	6.044	57	76457	218.5344117 ppb #	49
123) ETHYL METHACRYLATE	5.496	69	3601	0.7987918 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.163	53	1178	1.1512944 ppb #	8
125) Cyclohexanone	7.346	55	1153	1.6148570 ppb #	67
126) PENTACHLOROETHANE	7.644	117	14610	6.6481110 ppb #	13
127) Hexachloroethane	8.295	117	885	0.3291737 ppb #	69

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 02.D
Acq On : 18 Nov 2015 2:03 am
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

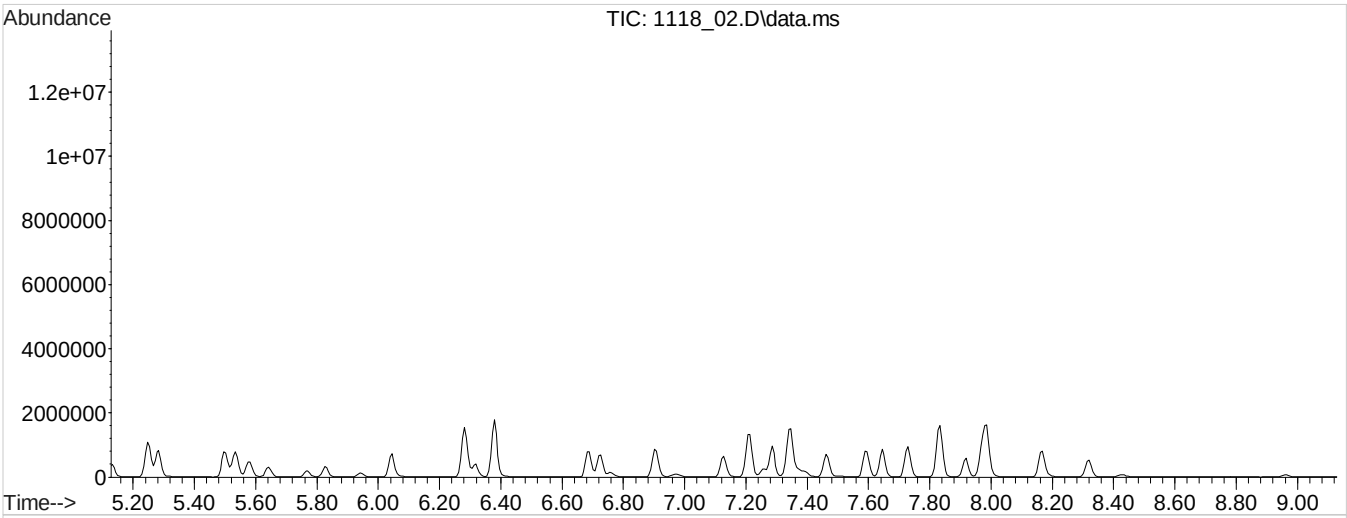
Quant Time: Nov 18 02:29:00 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

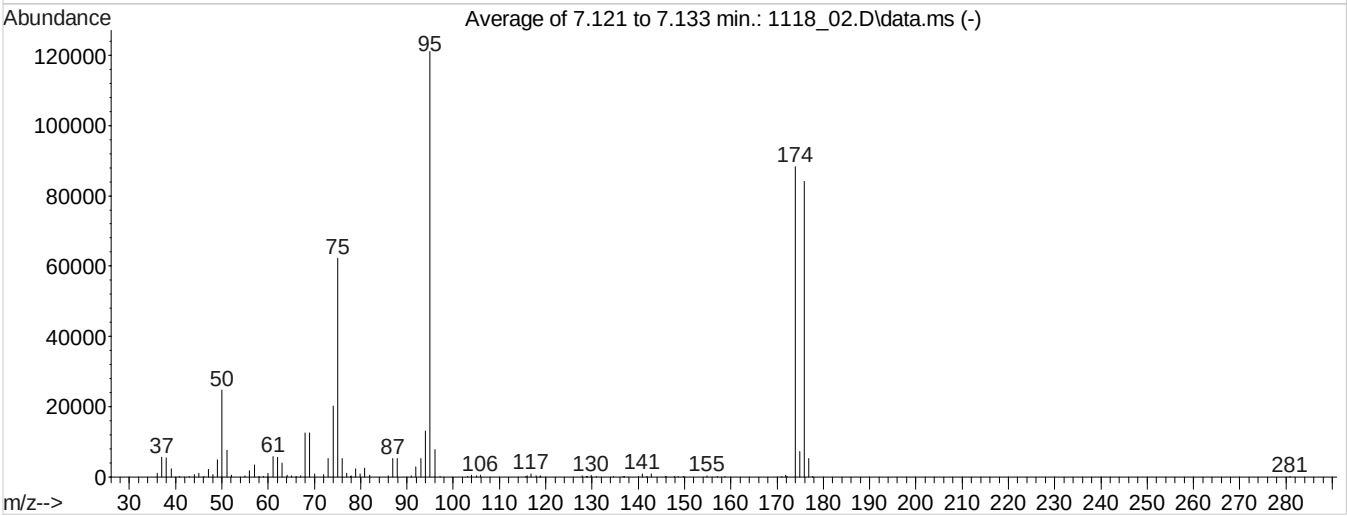


Data Path : C:\msdchem\1\data\111815\
Data File : 1118 02.D
Acq On : 18 Nov 2015 2:03 am
Operator : 189
Sample : ICV
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818K11O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





AutoFind: Scans 1157, 1158, 1159; Background Corrected with Scan 1149

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	24773	PASS
75	95	30	60	51.4	62288	PASS
95	95	100	100	100.0	121160	PASS
96	95	5	9	6.4	7695	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.9	88357	PASS
175	174	5	9	8.1	7155	PASS
176	174	95	101	95.2	84139	PASS
177	176	5	9	6.1	5137	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 03.D
Acq On : 18 Nov 2015 2:45 am
Operator : 189
Sample : LCS 1x WG829608
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:01 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	273105	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	477778	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	82858	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	192594	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	273105	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	477778	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	82858	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	192594	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	138830	40.1258153	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.31%			
46) a,a,a-Trifluorotoluene	4.791	146	249424	40.5842761	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.46%			
50) TOLUENE-D8	5.247	98	610535	40.7759674	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.94%			
68) 4-BROMOFLUOROBENZENE	7.127	95	206905	39.2319807	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.08%			
Target Compounds						Qvalue
3) PROPENE	1.548	41	10415	6.9060281	ppb	94
4) DICHLORODIFLUOROMETHANE	1.591	85	103548	31.6255652	ppb	99
5) CHLOROMETHANE	1.737	50	153003	25.6596977	ppb	99
6) VINYL CHLORIDE	1.816	62	155043	25.7232559	ppb	99
7) 1,3-BUTADIENE	1.816	39	107074	20.3767711	ppb	97
8) BROMOMETHANE	2.047	94	90932	25.8969427	ppb	96
9) CHLOROETHANE	2.138	64	90567	22.4869069	ppb	99
10) TRICHLOROFLUOROMETHANE	2.224	101	157764	26.9929112	ppb	99
11) DICHLOROFLUOROMETHANE	2.260	67	214070	25.0594215	ppb	99
12) ETHYL ETHER	2.406	59	89428	23.6997086	ppb	99
13) ACROLEIN	2.741	56	107031	185.5877490	ppb	98
14) 1,1-DICHLOROETHENE	2.540	61	174392	24.0638597	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	103858	25.4373283	ppb	98
16) ACETONE	2.905	43	283947	134.6986547	ppb	99
17) IODOMETHANE	2.637	142	746374	124.1192067	ppb	100
18) CARBON DISULFIDE	2.576	76	387426	24.7071309	ppb	99
19) METHYLENE CHLORIDE	2.881	84	111429	24.4721194	ppb	99
20) ACRYLONITRILE	3.349	53	163915	133.0325872	ppb	97
21) n-Hexane	3.008	56	128253	24.3745263	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.978	96	108283	24.7810146	ppb	99
23) METHYL TERT-BUTYL ETHER	3.027	73	262369	24.3217134	ppb	98
24) 1,1-DICHLOROETHANE	3.325	63	228317	25.5949634	ppb	99
25) VINYL ACETATE	3.440	43	991057	130.6421271	ppb	99
26) DI-ISOPROPYL ETHER	3.227	45	430256	24.8682340	ppb	99
27) 2,2-Dichloropropane	3.684	77	130559	24.2179185	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.623	96	115086	24.9297181	ppb	100
29) 2-BUTANONE (MEK)	3.927	43	325967	146.9045680	ppb	97
30) BROMOCHLOROMETHANE	3.732	130	57620	26.0187161	ppb	99
31) TETRAHYDROFURAN	3.866	42	29051	24.5577262	ppb	94
32) CHLOROFORM	3.763	83	190976	25.8104628	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.890	97	152636	26.3200790	ppb	99
35) CARBON TETRACHLORIDE	3.854	117	129991	26.7597987	ppb	96
36) 1,1-Dichloropropene	3.957	75	159236	25.3594579	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 03.D
Acq On : 18 Nov 2015 2:45 am
Operator : 189
Sample : LCS 1x WG829608
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:01 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.000	57	579633	25.4428624	ppb		99
38)	HEPTANE	4.043	43	273303	25.2340368	ppb	#	99
39)	BENZENE	4.097	78	488646	24.9377288	ppb		99
40)	1,2-DICHLOROETHANE	4.207	62	135209	25.8318437	ppb		99
42)	TRICHLOROETHENE	4.420	130	104400	26.1609196	ppb		98
43)	1,2-DICHLOROPROPANE	4.730	62	92132	26.2536544	ppb		100
44)	DIBROMOMETHANE	4.675	93	55268	27.0090869	ppb		99
45)	BROMODICHLOROMETHANE	4.754	83	146627	26.8681408	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.071	63	48534	29.3748673	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.132	75	190723	27.7355921	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.497	43	508423	137.7958201	ppb		99
51)	TOLUENE	5.284	91	501310	24.8131205	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.533	75	164246	28.0998488	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.643	97	84149	26.7762435	ppb		98
55)	TETRACHLOROETHENE	5.533	164	80144	26.1757363	ppb		99
56)	1,3-Dichloropropane	5.831	76	161768	25.8485392	ppb		100
57)	2-HEXANONE	6.044	58	248220	147.2796656	ppb		100
58)	CHLORODIBROMOMETHANE	5.770	129	84221	27.2939930	ppb		100
59)	1,2-DIBROMOETHANE	5.941	107	76788	26.2599531	ppb		99
60)	CHLOROBENZENE	6.281	112	280813	25.5085138	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.318	133	87587	27.1157368	ppb	#	99
62)	ETHYLBENZENE	6.281	106	167193	26.5577036	ppb		92
63)	M&P-XYLENE	6.379	106	404003	51.1917112	ppb		99
64)	O-XYLENE	6.689	106	187356	25.5616927	ppb		100
65)	STYRENE	6.725	104	299630	26.3475857	ppb		100
66)	Bromoform	6.762	173	50448	29.1258910	ppb		99
67)	Isopropylbenzene	6.908	105	504958	25.7576599	ppb		99
69)	Bromobenzene	7.212	77	237256	25.4847407	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.261	83	111951	27.8682595	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.370	110	27311	26.2911003	ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.395	53	29197	28.6555135	ppb	#	97
73)	n-Propylbenzene	7.206	91	648788	26.1452295	ppb		100
74)	4-ETHYLTOLUENE	7.285	105	497720	26.2180659	ppb		100
75)	2-Chlorotoluene	7.340	126	111847	26.1218662	ppb		97
76)	4-Chlorotoluene	7.462	91	364054	26.0719250	ppb		100
77)	1,3,5-Trimethylbenzene	7.346	105	425347	25.8278189	ppb		99
78)	tert-Butylbenzene	7.595	119	336470	26.2760240	ppb		98
79)	1,2,4-Trimethylbenzene	7.644	105	411959	26.3170455	ppb		100
80)	sec-Butylbenzene	7.729	105	561593	26.5794581	ppb		100
81)	1,3-DICHLOROBENZENE	7.918	146	202535	26.8569828	ppb		99
82)	p-Isopropyltoluene	7.833	119	445955	27.2471352	ppb		99
83)	DICYCLOPENTADIENE	7.833	66	576250	25.0765187	ppb		99
85)	1,4-DICHLOROBENZENE	7.985	146	205999	25.2186935	ppb		99
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	419155	25.0937836	ppb		98
87)	1,2-DICHLOROBENZENE	8.319	146	187835	25.6801246	ppb		98
88)	n-Butylbenzene	8.167	91	460289	28.3141256	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.964	157	16659	25.8903291	ppb		97
90)	1,2,4-Trichlorobenzene	9.518	180	121486	28.1923953	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.481	225	69923	27.2897150	ppb		100
92)	Naphthalene	9.785	128	291030	28.1647821	ppb		99
93)	1,2,3-Trichlorobenzene	9.944	180	118042	27.7003113	ppb		99
100)	Methyl Acetate	2.972	43	4599	1.5705828	ppb	#	42
101)	ACETONITRILE	3.227	41	63608	138.0109692	ppb	#	41
103)	tert-BUTYL ALCOHOL	3.069	59	3339	3.2960462	ppb	#	61

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 03.D
Acq On : 18 Nov 2015 2:45 am
Operator : 189
Sample : LCS 1x WG829608
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:01 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

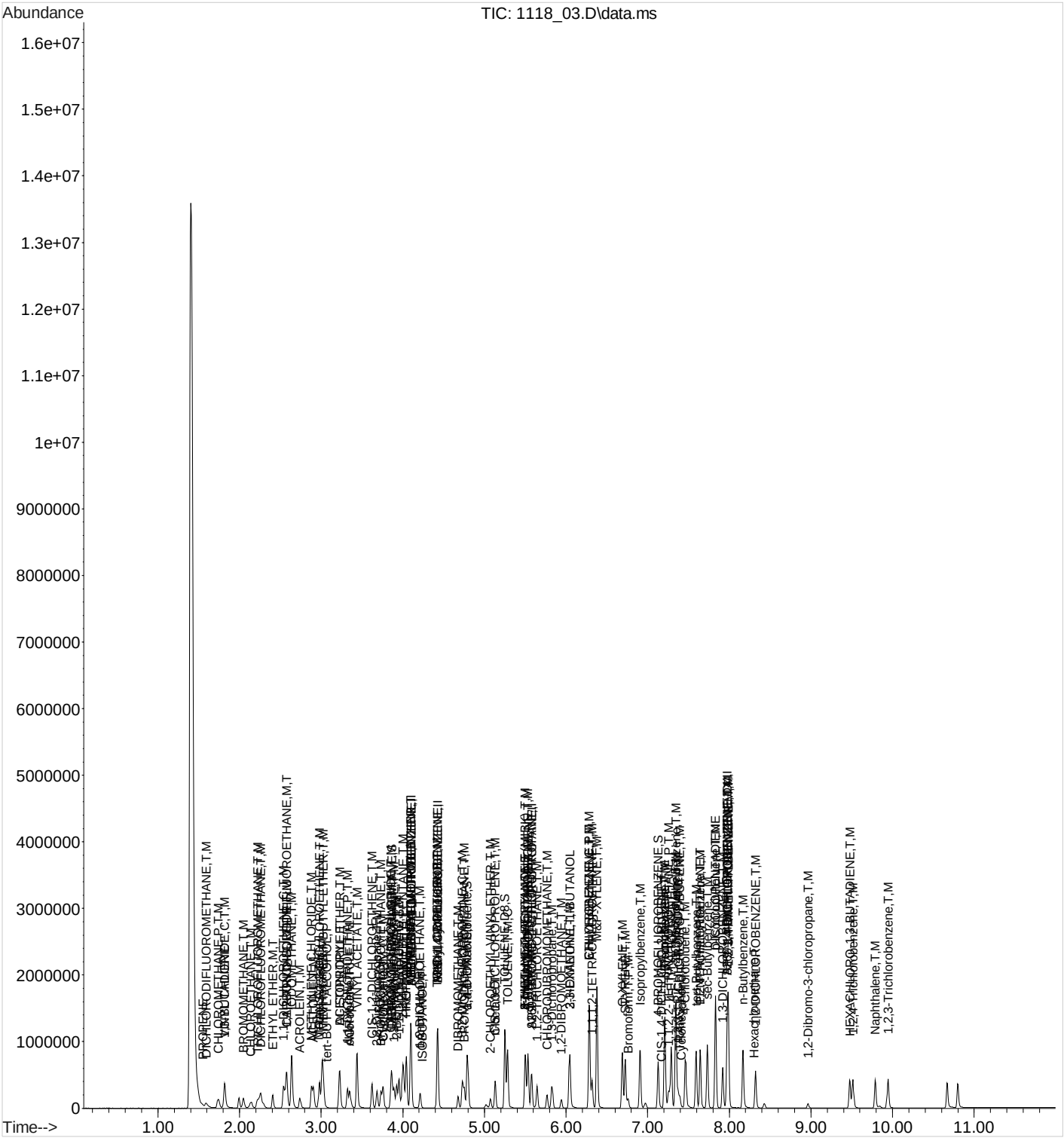
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) chloroprene	3.349	53	163915	20.2175588	ppb #	26
106) PROPIONITRILE	4.037	54	2274	4.2812755	ppb #	1
108) METHACRYLONITRILE	4.103	67	911	0.5609124	ppb #	1
109) Cyclohexane	3.763	84	7276	0.6786299	ppb #	5
111) ISOBUTANOL	4.237	43	552	2.1410563	ppb #	28
112) t-Amyl Alcohol	4.213	59	824	2.5480965	ppb #	25
113) TERT-AMYL METHYL ETHER	4.097	73	8518	0.5753425	ppb #	49
116) Methyl Cyclohexane	4.426	83	8011	0.6064891	ppb #	48
117) 2-nitropropane	5.497	43	508423	505.6881465	ppb #	40
119) 1,4-DIOXANE	4.791	88	2922	79.0032768	ppb #	35
120) n-octane	5.132	85	2444	0.5009221	ppb #	21
121) 3,3-DIMETHYL-1-BUTANOL	6.044	57	81578	212.4638474	ppb #	48
123) ETHYL METHACRYLATE	5.497	69	3306	0.6884537	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.170	53	1165	1.0688787	ppb #	8
125) Cyclohexanone	7.413	55	728	0.9571887	ppb #	23
126) PENTACHLOROETHANE	7.644	117	13702	5.8532007	ppb #	15
127) Hexachloroethane	8.301	117	927	0.3236854	ppb #	50

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 03.D
Acq On : 18 Nov 2015 2:45 am
Operator : 189
Sample : LCS 1x WG829608
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:01 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 04.D
Acq On : 18 Nov 2015 3:06 am
Operator : 189
Sample : LCSD 1x WG829608
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:36 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	257723	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	449948	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.576	79	80311	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	7.973	152	184373	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	257723	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	449948	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.576	79	80311	40.0000000	ppb	-0.01
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	184373	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.860	111	130523	39.9764354	ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.94%			
46) a,a,a-Trifluorotoluene	4.791	146	241016	41.6417777	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.10%			
50) TOLUENE-D8	5.247	98	577607	40.9628323	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.41%			
68) 4-BROMOFLUOROBENZENE	7.127	95	198177	38.7687601	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.92%			
Target Compounds						Qvalue
3) PROPENE	1.554	41	9962	6.9999039	ppb	93
4) DICHLORODIFLUOROMETHANE	1.591	85	102524	33.1816972	ppb	98
5) CHLOROMETHANE	1.737	50	150660	26.7747870	ppb	99
6) VINYL CHLORIDE	1.816	62	152437	26.8003608	ppb	100
7) 1,3-BUTADIENE	1.816	39	107202	21.6187561	ppb	99
8) BROMOMETHANE	2.047	94	90855	27.4193438	ppb	98
9) CHLOROETHANE	2.138	64	89516	23.5524928	ppb	99
10) TRICHLOROFLUOROMETHANE	2.217	101	154048	27.9302198	ppb	99
11) DICHLOROFLUOROMETHANE	2.260	67	212859	26.4048511	ppb	99
12) ETHYL ETHER	2.406	59	91110	25.5865663	ppb	100
13) ACROLEIN	2.741	56	105289	193.4635690	ppb	99
14) 1,1-DICHLOROETHENE	2.540	61	180138	26.3402892	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	100527	26.0910006	ppb	99
16) ACETONE	2.905	43	292564	147.0697424	ppb	100
17) IODOMETHANE	2.637	142	714389	125.8907210	ppb	99
18) CARBON DISULFIDE	2.570	76	375899	25.4027770	ppb	99
19) METHYLENE CHLORIDE	2.881	84	109290	25.4349126	ppb	97
20) ACRYLONITRILE	3.349	53	160064	137.6605429	ppb	97
21) n-Hexane	3.008	56	127245	25.6262968	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.978	96	108073	26.2091227	ppb	98
23) METHYL TERT-BUTYL ETHER	3.027	73	258943	25.4367894	ppb	99
24) 1,1-DICHLOROETHANE	3.325	63	219873	26.1194868	ppb	100
25) VINYL ACETATE	3.434	43	1033763	144.4049455	ppb	99
26) DI-ISOPROPYL ETHER	3.221	45	414182	25.3679693	ppb	97
27) 2,2-Dichloropropane	3.684	77	132031	25.9526903	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.623	96	111934	25.6940976	ppb	100
29) 2-BUTANONE (MEK)	3.927	43	330414	157.7962139	ppb	99
30) BROMOCHLOROMETHANE	3.732	130	55351	26.4858889	ppb	97
31) TETRAHYDROFURAN	3.866	42	29714	26.6173404	ppb	99
32) CHLOROFORM	3.757	83	184803	26.4668643	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.890	97	151115	27.6130424	ppb	98
35) CARBON TETRACHLORIDE	3.854	117	128119	27.9485687	ppb	99
36) 1,1-Dichloropropene	3.957	75	154308	26.0413576	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 04.D
Acq On : 18 Nov 2015 3:06 am
Operator : 189
Sample : LCSD 1x WG829608
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:36 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.000	57	567036	26.3754557 ppb		99
38)	HEPTANE	4.043	43	266271	26.0520964 ppb	#	100
39)	BENZENE	4.097	78	472122	25.5324953 ppb		100
40)	1,2-DICHLOROETHANE	4.207	62	130417	26.4034382 ppb		98
42)	TRICHLOROETHENE	4.420	130	102103	27.1678226 ppb		100
43)	1,2-DICHLOROPROPANE	4.730	62	89296	27.0193621 ppb		100
44)	DIBROMOMETHANE	4.675	93	52797	27.3973918 ppb		98
45)	BROMODICHLOROMETHANE	4.754	83	138985	27.0430344 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.071	63	75213	48.3377645 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.131	75	179107	27.6573620 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.496	43	515236	148.2794196 ppb		100
51)	TOLUENE	5.284	91	483107	25.3911383 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.533	75	153941	27.9658038 ppb		97
54)	1,1,2-TRICHLOROETHANE	5.642	97	80218	26.3349156 ppb		99
55)	TETRACHLOROETHENE	5.533	164	80125	26.9994767 ppb		96
56)	1,3-Dichloropropane	5.825	76	154218	25.4236480 ppb		100
57)	2-HEXANONE	6.044	58	254744	155.8729012 ppb		100
58)	CHLORODIBROMOMETHANE	5.770	129	82124	27.4584608 ppb		100
59)	1,2-DIBROMOETHANE	5.941	107	76130	26.8606076 ppb		99
60)	CHLOROBENZENE	6.281	112	270377	25.3394454 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.318	133	83588	26.6983920 ppb	#	100
62)	ETHYLBENZENE	6.281	106	159537	26.1452779 ppb		96
63)	M&P-XYLENE	6.379	106	384796	50.3042894 ppb		98
64)	O-XYLENE	6.689	106	182818	25.7335895 ppb		100
65)	STYRENE	6.725	104	287636	26.0950531 ppb		99
66)	Bromoform	6.762	173	49270	29.3479143 ppb		98
67)	Isopropylbenzene	6.902	105	491796	25.8818641 ppb		99
69)	Bromobenzene	7.212	77	225415	24.9807366 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.255	83	108960	27.9839087 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.370	110	28415	28.2213791 ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.395	53	29463	29.7682253 ppb	#	97
73)	n-Propylbenzene	7.206	91	631649	26.2618233 ppb		100
74)	4-ETHYLTOLUENE	7.285	105	483390	26.2707597 ppb		100
75)	2-Chlorotoluene	7.340	126	110851	26.7103076 ppb		99
76)	4-Chlorotoluene	7.461	91	354851	26.2187955 ppb		100
77)	1,3,5-Trimethylbenzene	7.346	105	418462	26.2155997 ppb		100
78)	tert-Butylbenzene	7.595	119	328079	26.4332855 ppb		99
79)	1,2,4-Trimethylbenzene	7.644	105	401385	26.4547516 ppb		100
80)	sec-Butylbenzene	7.729	105	552117	26.9596946 ppb		100
81)	1,3-DICHLOROBENZENE	7.918	146	197367	27.0016988 ppb		100
82)	p-Isopropyltoluene	7.833	119	435272	27.4378421 ppb		100
83)	DICYCLOPENTADIENE	7.833	66	565159	25.3738499 ppb		100
85)	1,4-DICHLOROBENZENE	7.985	146	200897	25.6907246 ppb		98
86)	1,2,3-TRIMETHYLBENZENE	7.985	105	406567	25.4254737 ppb		100
87)	1,2-DICHLOROBENZENE	8.319	146	184344	26.3266164 ppb		99
88)	n-Butylbenzene	8.167	91	449141	28.8602900 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.964	157	16641	26.9937246 ppb		98
90)	1,2,4-Trichlorobenzene	9.512	180	120658	29.2487490 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.475	225	70519	28.7495151 ppb		97
92)	Naphthalene	9.785	128	293106	29.6304861 ppb		100
93)	1,2,3-Trichlorobenzene	9.944	180	117628	28.8339562 ppb		96
100)	Methyl Acetate	3.008	43	204118	73.8678073 ppb	#	69
101)	ACETONITRILE	3.221	41	64693	148.7426894 ppb	#	41
103)	tert-BUTYL ALCOHOL	3.063	59	1925	2.0136504 ppb	#	61

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 04.D
Acq On : 18 Nov 2015 3:06 am
Operator : 189
Sample : LCSD 1x WG829608
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:36 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

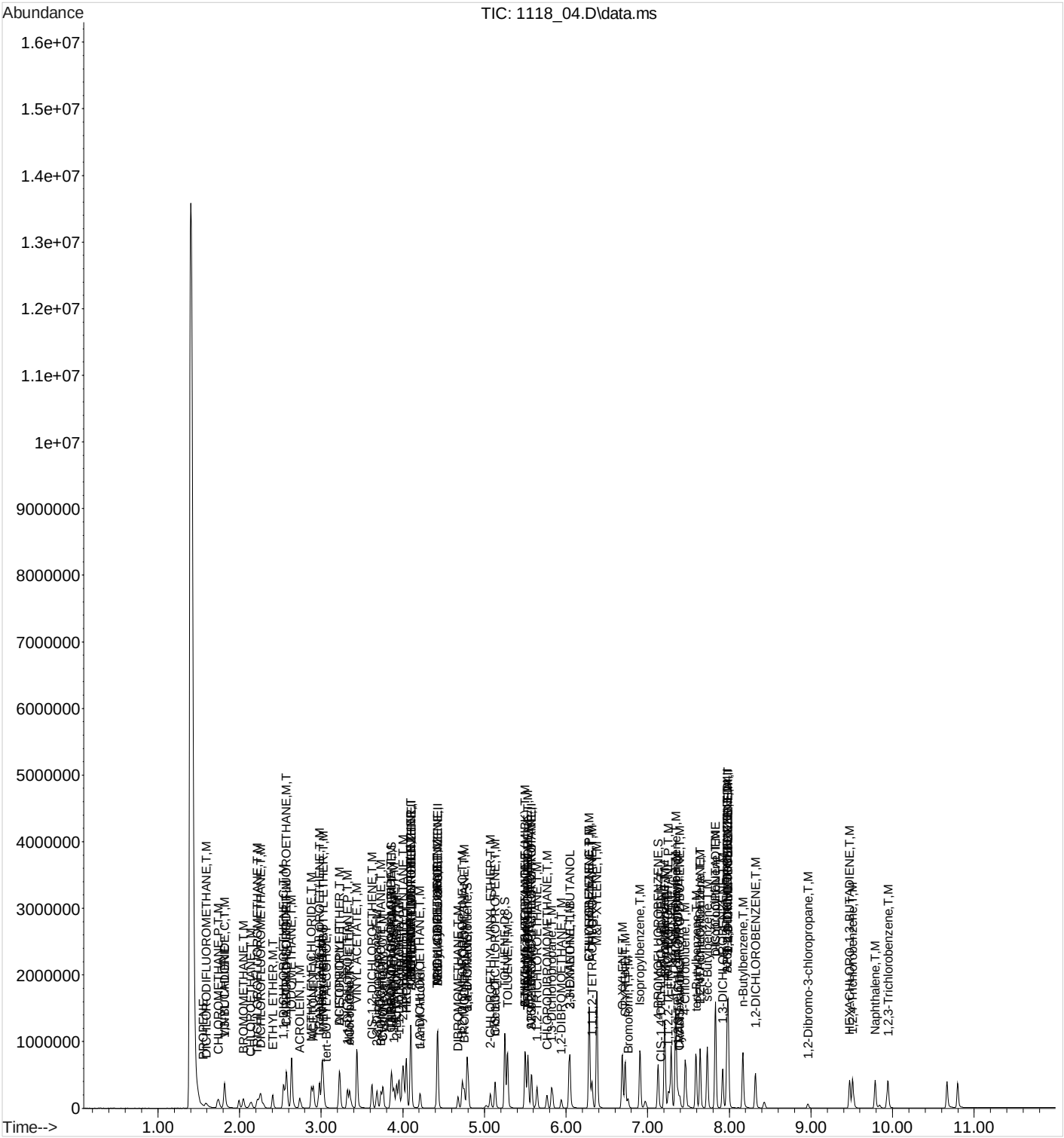
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) chloroprene	3.349	53	160064	20.9208899	ppb #	26
106) PROPIONITRILE	4.043	54	2355	4.6984012	ppb #	1
108) METHACRYLONITRILE	4.097	67	657	0.4286655	ppb #	1
109) Cyclohexane	3.757	84	7315	0.7229880	ppb #	2
112) t-Amyl Alcohol	4.213	59	723	2.3692093	ppb #	25
113) TERT-AMYL METHYL ETHER	4.097	73	8519	0.6097530	ppb #	64
116) Methyl Cyclohexane	4.426	83	8655	0.6957723	ppb #	44
117) 2-nitropropane	5.496	43	515684	544.6343943	ppb #	40
119) 1,4-DIOXANE	4.791	88	2897	83.1720126	ppb #	37
120) n-octane	5.131	85	2011	0.4376681	ppb #	24
121) 3,3-DIMETHYL-1-BUTANOL	6.044	57	85850	237.4193490	ppb #	48
123) ETHYL METHACRYLATE	5.496	69	3620	0.7777497	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.163	53	1109	1.0497683	ppb #	8
125) Cyclohexanone	7.388	55	545	0.7393024	ppb #	1
126) PENTACHLOROETHANE	7.644	117	14151	6.2367164	ppb #	16

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 04.D
Acq On : 18 Nov 2015 3:06 am
Operator : 189
Sample : LCSD 1x WG829608
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 03:30:36 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 06.D
Acq On : 18 Nov 2015 3:47 am
Operator : 189
Sample : AP9 CCV
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:04 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	265400	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	460369	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	77598	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	174244	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	265400	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	460369	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	77598	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	174244	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	133003	39.5576712	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.89%			
46) a,a,a-Trifluorotoluene	4.791	146	240386	40.5927815	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.48%			
50) TOLUENE-D8	5.247	98	592419	41.0622519	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.66%			
68) 4-BROMOFLUOROBENZENE	7.127	95	194102	39.2991519	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -1661553m		Below Cal		
13) ACROLEIN	2.747	56	906	1.6165780	ppb #	56
16) ACETONE	2.911	43	4584	2.2376869	ppb	94
17) IODOMETHANE	2.637	142	6254	1.0702102	ppb	100
19) METHYLENE CHLORIDE	2.887	84	3677	0.8309898	ppb	98
20) ACRYLONITRILE	3.306	53	327524	273.5339274	ppb #	50
24) 1,1-DICHLOROETHANE	3.306	63	6593	0.7605505	ppb #	67
25) VINYL ACETATE	3.434	43	19172	2.6006431	ppb #	89
29) 2-BUTANONE (MEK)	3.933	43	5883	2.7282819	ppb #	79
31) TETRAHYDROFURAN	3.805	42	21407	18.6213691	ppb #	49
32) CHLOROFORM	3.757	83	6354	0.8836758	ppb #	66
35) CARBON TETRACHLORIDE	3.842	117	1449	0.3069493	ppb #	73
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	9542	0.4310037	ppb #	1
42) TRICHLOROETHENE	4.426	130	3474	0.9034464	ppb #	66
47) 2-CHLOROETHYL VINYL ETHER	5.071	63	1647	1.0345310	ppb #	84
49) 4-METHYL-2-PENTANONE (...	5.515	43	4749	1.3357744	ppb #	84
51) TOLUENE	5.283	91	13147	0.6753389	ppb	96
54) 1,1,2-TRICHLOROETHANE	5.642	97	940	0.3193835	ppb #	57
55) TETRACHLOROETHENE	5.533	164	39283	13.6998704	ppb	99
57) 2-HEXANONE	6.068	58	775	1.6999204	ppb #	19
61) 1,1,1,2-TETRACHLOROETHANE	6.318	133	2190	0.7239520	ppb #	93
62) ETHYLBENZENE	6.293	106	1807	0.3064887	ppb	99
63) M&P-XYLENE	6.391	106	4596	0.6218405	ppb	97
69) Bromobenzene	7.212	77	2993	0.3432841	ppb #	76
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	5111	6.6500416	ppb #	55
74) 4-ETHYLTOLUENE	7.297	105	5970	0.3357947	ppb	97
78) tert-Butylbenzene	7.620	119	76548	6.3830915	ppb #	29
79) 1,2,4-Trimethylbenzene	7.656	105	4446	0.3032749	ppb	97
85) 1,4-DICHLOROBENZENE	7.985	146	2389	0.3232649	ppb #	1
92) Naphthalene	9.816	128	3607	0.3858333	ppb #	72
93) 1,2,3-Trichlorobenzene	9.956	180	1534	0.3978857	ppb #	73
97) ETHANOL	2.491	45	37135	777.5583598	ppb #	90
98) Bromoethane	2.704	108	29575	7.6833370	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 06.D
Acq On : 18 Nov 2015 3:47 am
Operator : 189
Sample : AP9 CCV
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:04 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

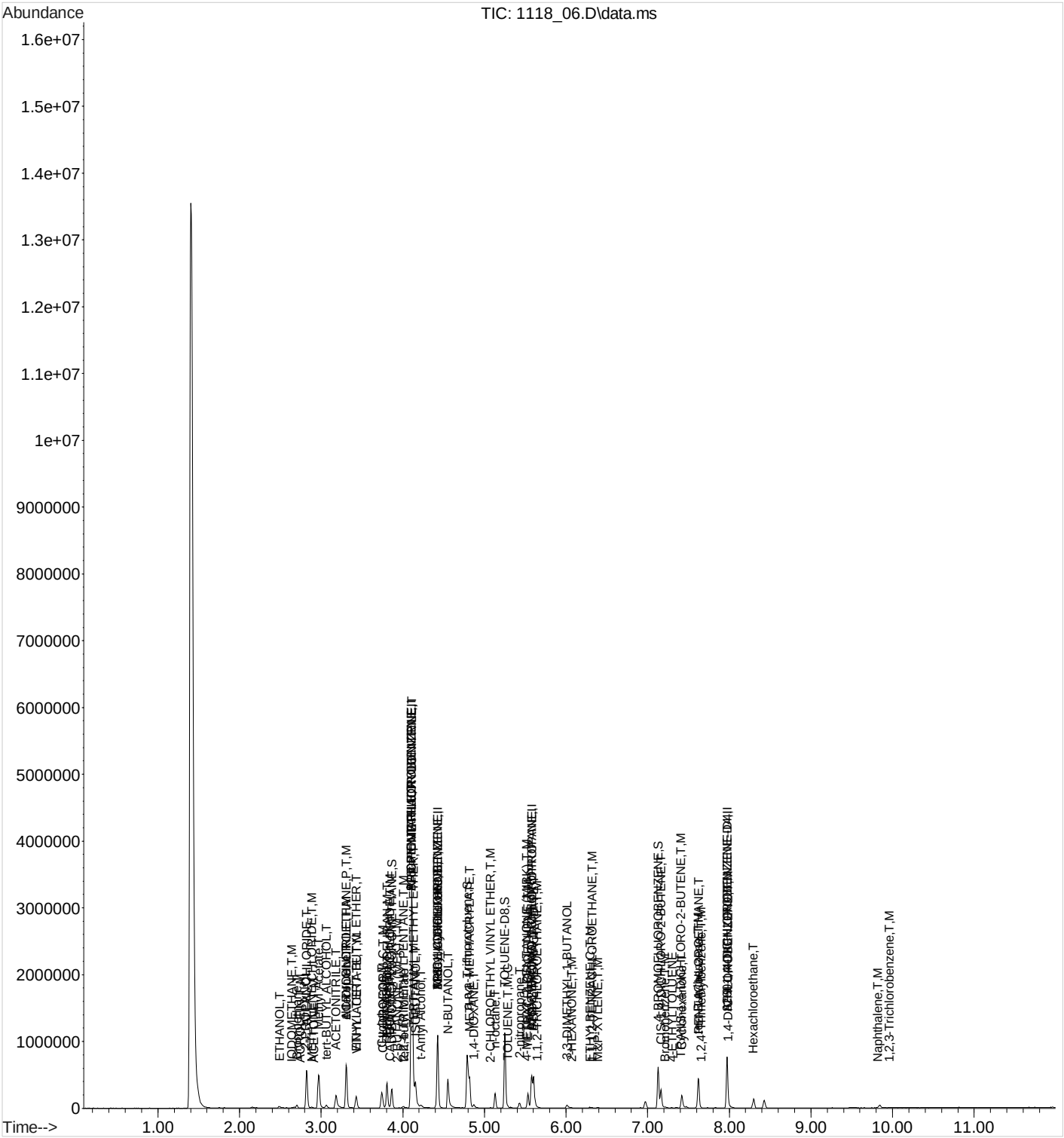
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
99)	2-PROPANOL	2.807	45	10359	42.9872727 ppb		96
100)	Methyl Acetate	2.966	43	502672	176.6488675 ppb	#	99
101)	ACETONITRILE	3.179	41	202072	451.1663887 ppb		99
102)	ALLYL CHLORIDE	2.820	76	102003	42.7523207 ppb		99
103)	tert-BUTYL ALCOHOL	3.063	59	45430	46.1475175 ppb		96
104)	chloroprene	3.306	53	327524	41.5701774 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.428	59	120914	8.6320482 ppb		99
106)	PROPIONITRILE	4.103	54	240147	465.2523855 ppb		100
107)	Ethyl Acetate	3.805	43	342344	93.0651750 ppb		100
108)	METHACRYLONITRILE	4.109	67	718000	454.9145560 ppb		97
109)	Cyclohexane	3.744	84	78201	7.5055293 ppb		98
110)	tert-butyl formate	4.012	59	7994	2.8619528 ppb	#	10
111)	ISOBUTANOL	4.158	43	225253	899.0592654 ppb		96
112)	t-Amyl Alcohol	4.219	59	15763	50.1598552 ppb		98
113)	TERT-AMYL METHYL ETHER	4.134	73	128412	8.9253070 ppb	#	98
115)	N-BUTANOL	4.553	56	214450	2087.3002200 ppb		99
116)	Methyl Cyclohexane	4.426	83	93140	7.3180028 ppb		100
117)	2-nitropropane	5.430	43	45948	47.4290334 ppb		98
118)	METHYL METHACRYLATE	4.815	41	172311	44.9787677 ppb		97
119)	1,4-DIOXANE	4.870	88	29906	839.1571482 ppb		98
120)	n-octane	5.131	85	33668	7.1615390 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.014	57	27522	74.3895711 ppb		95
123)	ETHYL METHACRYLATE	5.606	69	215904	48.0083194 ppb	#	100
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	54929	53.8131120 ppb		93
125)	Cyclohexanone	7.419	55	85113	119.4939723 ppb		97
126)	PENTACHLOROETHANE	7.626	117	78363	35.7441049 ppb		98
127)	Hexachloroethane	8.295	117	26672	9.9444968 ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 06.D
Acq On : 18 Nov 2015 3:47 am
Operator : 189
Sample : AP9 CCV
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:04 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



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

LCS Summary Report

Instrument ID	: VOCMS18	Work Group	: WG829608	Initial Prep Amt	: 0
Lab File ID	: 1118_07-3	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/18/15 0407	Multiplier	: 1	Method	: V818K11O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
PROPENE	0.025	0	0	10	200	J4
DICHLORODIFLUOROMETHANE	0.025	0	0	56	134	J4
CHLOROMETHANE	0.025	0.0005449506	2.18	55.8	134	J4
VINYL CHLORIDE	0.025	0	0	61.5	134	J4
1,3-BUTADIENE	0.025	0	0	36.2	142	J4
BROMOMETHANE	0.025	0	0	22.4	187	J4
CHLOROETHANE	0.025	0	0	41.2	153	J4
TRICHLOROFLUOROMETHANE	0.025	0	0	49.1	157	J4
DICHLOROFLUOROMETHANE	0.025	0	0	53.5	145	J4
ETHYL ETHER	0.025	0	0	56.6	136	J4
ACROLEIN	0.125	0	0	40.4	172	J4
1,1-DICHLOROETHENE	**0.025**	**0**	**0**	**59.9**	**137**	**J4**
1,1,2-TRICHLOROTRIFLUOROETHANE	0.025	0	0	62	141	J4
ACETONE	0.125	0.00132738	1.06	28.7	175	J4
IODOMETHANE	0.125	0	0	64.6	137	J4
CARBON DISULFIDE	0.025	0	0	53	134	J4
METHYLENE CHLORIDE	0.025	0.0006236639	2.49	69.5	120	J4
ACRYLONITRILE	0.125	0.2565184	205	58.2	145	J4
n-Hexane	0.025	0	0	59.5	132	J4
TRANS-1,2-DICHLOROETHENE	0.025	0	0	72.6	125	J4
METHYL TERT-BUTYL ETHER	0.025	0	0	70.1	125	J4
1,1-DICHLOROETHANE	0.025	0.0005722224	2.29	71.7	127	J4
VINYL ACETATE	0.125	0.001753664	1.4	41.7	159	J4
DI-ISOPROPYL ETHER	0.025	0	0	65.1	135	J4
2,2-Dichloropropane	0.025	0	0	61.3	134	J4
CIS-1,2-DICHLOROETHENE	0.025	0	0	77.3	122	J4
2-BUTANONE (MEK)	0.125	0.02115614	16.9	46.4	155	J4
BROMOCHLOROMETHANE	0.025	0	0	78.9	123	J4
TETRAHYDROFURAN	0.025	0.01628588	65.1	54	134	
CHLOROFORM	0.025	0.0005558006	2.22	73.2	125	J4
1,1,1-TRICHLOROETHANE	0.025	0	0	71.1	129	J4
CARBON TETRACHLORIDE	0.025	0	0	70.9	129	J4
1,1-Dichloropropene	0.025	0	0	72.5	127	J4
2,2,4-TRIMETHYLPENTANE	0.025	0.011465	45.9	56.9	117	J4
BENZENE	**0.025**	**0**	**0**	**73**	**122**	**J4**
1,2-DICHLOROETHANE	0.025	0	0	65.3	126	J4
TRICHLOROETHENE	**0.025**	**0.0006491315**	**2.6**	**79.5**	**121**	**J4**
1,2-DICHLOROPROPANE	0.025	0.001567947	6.27	77.4	125	J4
DIBROMOMETHANE	0.025	0	0	79.5	118	J4
BROMODICHLOROMETHANE	0.025	0	0	75.5	121	J4
2-CHLOROETHYL VINYL ETHER	0.125	0	0	23.4	162	J4
CIS-1,3-DICHLOROPROPENE	0.025	0	0	77.7	124	J4
4-METHYL-2-PENTANONE (MIBK)	0.125	0	0	63.3	138	J4

LCS Summary Report

Instrument ID	: VOCMS18	Work Group	: WG829608	Initial Prep Amt	: 0
Lab File ID	: 1118_07-3	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/18/15 0407	Multiplier	: 1	Method	: V818K11O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
TOLUENE	**0.025**	**0**	**0**	**77.9**	**116**	**J4**
TRANS-1,3-DICHLOROPROPENE	0.025	0.0007149088	2.86	73.5	127	J4
1,1,2-TRICHLOROETHANE	0.025	0	0	81.6	120	J4
TETRACHLOROETHENE	0.025	0.01463887	58.6	73.5	130	J4
1,3-Dichloropropane	0.025	0	0	80.6	115	J4
2-HEXANONE	0.125	0.001940399	1.55	59.4	151	J4
CHLORODIBROMOMETHANE	0.025	0	0	78.2	124	J4
1,2-DIBROMOETHANE	0.025	0	0	79.8	122	J4
CHLOROBENZENE	**0.025**	**0**	**0**	**79.7**	**122**	**J4**
1,1,1,2-TETRACHLOROETHANE	0.025	0.0005448395	2.18	78.5	125	J4
ETHYLBENZENE	0.025	0	0	80.9	121	J4
M&P-XYLENE	0.05	0	0	78.5	122	J4
O-XYLENE	0.025	0	0	79.1	123	J4
STYRENE	0.025	0	0	79.9	124	J4
Bromoform	0.025	0	0	71.5	131	J4
Isopropylbenzene	0.025	0	0	81.6	124	J4
Bromobenzene	0.025	0.002263877	9.06	81.5	115	J4
1,1,2,2-TETRACHLOROETHANE	0.025	0	0	79.3	123	J4
1,2,3-TRICHLOROPROPANE	0.025	0	0	74.9	124	J4
TRANS-1,4-DICHLORO-2-BUTENE	0.025	0.00706859	28.3	58.3	129	J4
n-Propylbenzene	0.025	0	0	81.9	122	J4
4-ETHYLTOLUENE	0.025	0	0	69.5	137	J4
2-Chlorotoluene	0.025	0	0	76.4	125	J4
4-Chlorotoluene	0.025	0	0	81.5	121	J4
1,3,5-Trimethylbenzene	0.025	0	0	81	123	J4
tert-Butylbenzene	0.025	0.006211352	24.8	79.3	127	J4
1,2,4-Trimethylbenzene	0.025	0	0	79	122	J4
sec-Butylbenzene	0.025	0	0	80.6	126	J4
1,3-DICHLOROBENZENE	0.025	0	0	77.6	127	J4
p-Isopropyltoluene	0.025	0	0	77.6	129	J4
DICYCLOPENTADIENE	0.025	0	0	73.4	126	J4
1,4-DICHLOROBENZENE	0.025	0	0	82.2	114	J4
1,2,3-TRIMETHYLBENZENE	0.025	0	0	79.9	118	J4
1,2-DICHLOROBENZENE	0.025	0	0	84.7	118	J4
n-Butylbenzene	0.025	0	0	75.9	134	J4
1,2-Dibromo-3-chloropropane	0.025	0	0	64.8	131	J4
1,2,4-Trichlorobenzene	0.025	0	0	76.1	136	J4
HEXACHLORO-1,3-BUTADIENE	0.025	0	0	73.7	133	J4
Naphthalene	0.025	0	0	69.7	134	J4
1,2,3-Trichlorobenzene	0.025	0	0	75.7	134	J4
1-Methylnaphthalene	0.025	0	0	48.8	157	J4
2-Methylnaphthalene	0.025	0	0	55.6	154	J4
Methyl Cyclohexane	0.01	0.006909593	69.1	70	130	J4

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

LCS Summary Report

Instrument ID	: VOCMS18	Work Group	: WG829608	Initial Prep Amt	: 0
Lab File ID	: 1118_07-3	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/18/15 0407	Multiplier	: 1	Method	: V818K11O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
XYLENES, TOTAL		0	0	0	0	J4

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
DIBROMOFLUOROMETHANE	40	0.0392722	98.18	79	121	
a,a,a-Trifluorotoluene	40	0.04146874	103.67	90	116	
TOLUENE-D8	40	0.04055314	101.38	90	115	
4-BROMOFLUOROBENZENE	40	0.03840097	96	80	120	

IS Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
8260-PENTAFLUOROBENZENE	262648	127000	508000	4.1		
8260-1,4-DIFLUOROBENZENE	453344	218000	871000	4.43		
8260-2-BROMO-1-CHLOROPROPANE	77684	38900	156000	5.58		
8260-1,4-DICHLOROBENZENE-D4	167757	88900	355000	7.97		
AP9-PENTAFLUOROBENZENE	262648	127000	508000	4.1		
AP9-1,4-DIFLUOROBENZENE	453344	218000	871000	4.43		
AP9-2-BROMO-1-CHLOROPROPANE	77684	38900	156000	5.58		
AP9-1,4-DICHLOROBENZENE-D4	167757	88900	355000	7.97		

Total Parm Count	: **87**	J3 Qual Count	: 0	J6 Qual Count	: 0
J1 Qual Count	: 0	J4 Qual Count	: 86	V Qual Count	: 0
J2 Qual Count	: 0	J5 Qual Count	: 0	Total J4 Count	: 86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 07.D
Acq On : 18 Nov 2015 4:07 am
Operator : 189
Sample : LCS 1X WG829608
Misc : water
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	262648	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	453344	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	77684	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	167757	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	262648	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	453344	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	77684	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	167757	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	130674	39.2722049	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.18%			
46) a,a,a-Trifluorotoluene	4.791	146	241826	41.4687393	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.67%			
50) TOLUENE-D8	5.247	98	576146	40.5531444	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.38%			
68) 4-BROMOFLUOROBENZENE	7.127	95	189876	38.4009696	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.00%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -1177122m		Below Cal		
5) CHLOROMETHANE	1.755	50	3125	0.5449506	ppb #	74
16) ACETONE	2.911	43	2691	1.3273799	ppb	89
19) METHYLENE CHLORIDE	2.880	84	2731	0.6236639	ppb	96
20) ACRYLONITRILE	3.306	53	303965	256.5183702	ppb #	50
24) 1,1-DICHLOROETHANE	3.306	63	4909	0.5722224	ppb #	44
25) VINYL ACETATE	3.428	43	12794	1.7536645	ppb #	76
29) 2-BUTANONE (MEK)	4.000	43	45146	21.1561431	ppb #	48
31) TETRAHYDROFURAN	3.805	42	18528	16.2858774	ppb #	34
32) CHLOROFORM	3.744	83	3955	0.5558006	ppb #	38
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	251192	11.4650043	ppb #	1
38) HEPTANE	4.000	43	45146	4.3342820	ppb #	25
42) TRICHLOROETHENE	4.426	130	2458	0.6491315	ppb #	58
43) 1,2-DICHLOROPROPANE	4.791	62	5221	1.5679465	ppb #	1
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	3965	0.7149088	ppb #	1
55) TETRACHLOROETHENE	5.533	164	42022	14.6388674	ppb	99
57) 2-HEXANONE	6.020	58	1159	1.9403988	ppb #	1
61) 1,1,1,2-TETRACHLOROETHANE	6.312	133	1650	0.5448395	ppb #	98
69) Bromobenzene	7.163	77	19760	2.2638770	ppb #	32
72) TRANS-1,4-DICHLORO-2-B...	7.419	53	5540	7.0685901	ppb #	26
78) tert-Butylbenzene	7.626	119	74571	6.2113519	ppb #	29
97) ETHANOL	2.485	45	36318	768.4193834	ppb	99
98) Bromoethane	2.704	108	25759	6.7620900	ppb	97
99) 2-PROPANOL	2.814	45	12478	52.3231476	ppb #	90
100) Methyl Acetate	2.966	43	469122	166.5861086	ppb #	100
101) ACETONITRILE	3.179	41	183106	413.1045647	ppb	94
102) ALLYL CHLORIDE	2.826	76	90223	38.2112138	ppb	96
103) tert-BUTYL ALCOHOL	3.063	59	36731	37.7020686	ppb	99
104) chloroprene	3.306	53	303965	38.9842469	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.428	59	116084	8.3740674	ppb	99
106) PROPIONITRILE	4.103	54	234960	459.9728487	ppb	99
107) Ethyl Acetate	3.805	43	321659	88.3582296	ppb	99
108) METHACRYLONITRILE	4.115	67	701839	449.3344399	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 07.D
Acq On : 18 Nov 2015 4:07 am
Operator : 189
Sample : LCS 1X WG829608
Misc : water
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

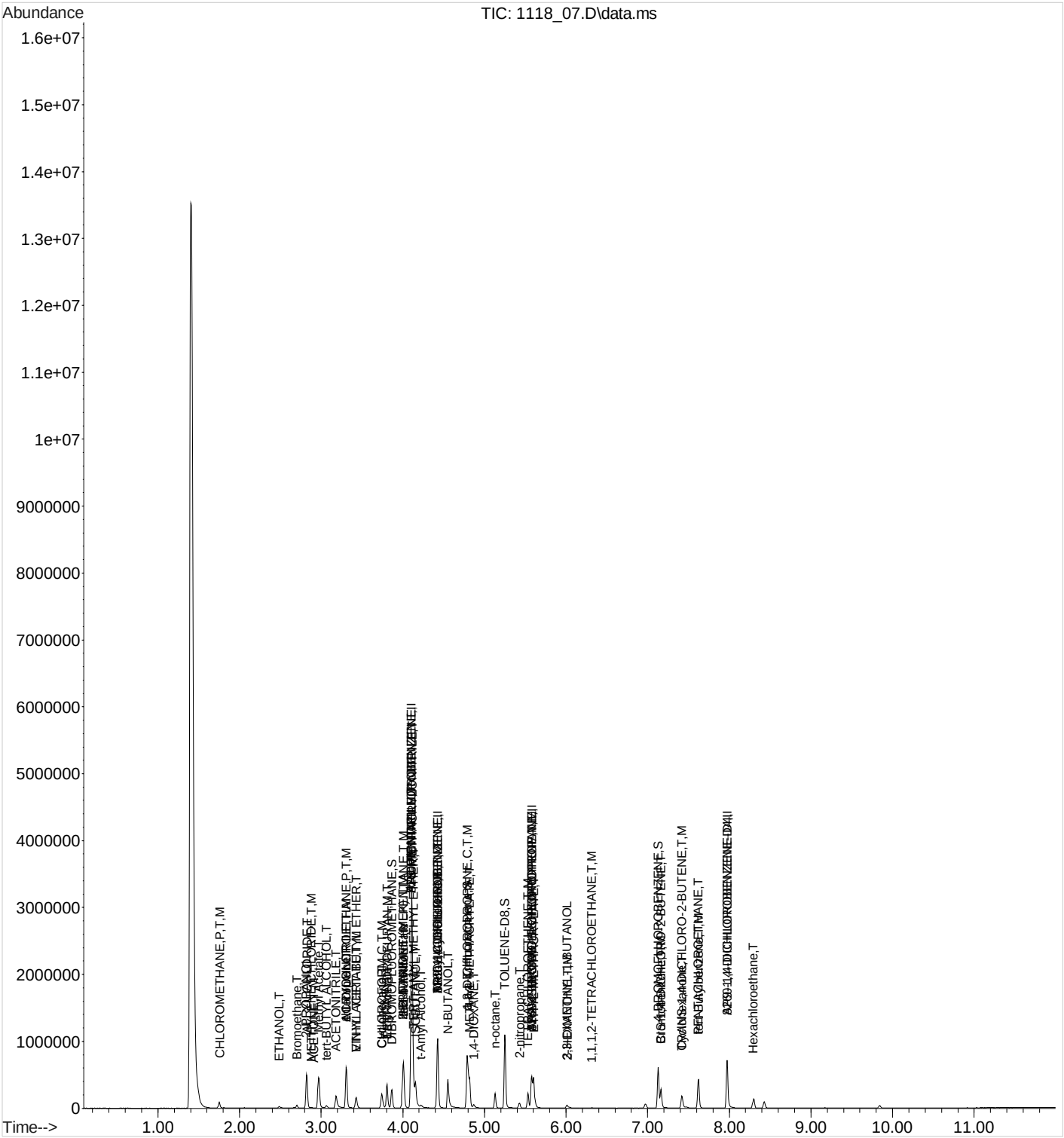
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
109) Cyclohexane	3.744	84	65546	6.3568510 ppb		98
110) tert-butyl formate	4.006	59	301711	109.1481275 ppb		96
111) ISOBUTANOL	4.158	43	223614	901.8691846 ppb		86
112) t-Amyl Alcohol	4.219	59	16211	52.1259550 ppb		87
113) TERT-AMYL METHYL ETHER	4.134	73	127810	8.9765449 ppb	#	98
115) N-BUTANOL	4.553	56	219292	2167.5037437 ppb		97
116) Methyl Cyclohexane	4.426	83	86600	6.9095924 ppb		99
117) 2-nitropropane	5.430	43	46267	48.4983765 ppb		99
118) METHYL METHACRYLATE	4.815	41	169094	44.8230028 ppb		97
119) 1,4-DIOXANE	4.870	88	31675	902.5677105 ppb		91
120) n-octane	5.131	85	31341	6.7698663 ppb		100
121) 3,3-DIMETHYL-1-BUTANOL	6.014	57	26919	73.8871961 ppb		99
123) ETHYL METHACRYLATE	5.606	69	212151	47.1215802 ppb	#	99
124) CIS-1,4-DICHLORO-2-BUTENE	7.163	53	56339	55.1333647 ppb		93
125) Cyclohexanone	7.419	55	82851	116.1894787 ppb		99
126) PENTACHLOROETHANE	7.620	117	74920	34.1358003 ppb		97
127) Hexachloroethane	8.295	117	26887	10.0135605 ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 07.D
Acq On : 18 Nov 2015 4:07 am
Operator : 189
Sample : LCS 1X WG829608
Misc : water
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:26:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration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1.5e+07
1.4e+07
1.3e+07
1.2e+07
1.1e+07
1e+07
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8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
Time-->
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
CHLOROMETHANE,P,T,M
ETHANOL,T
Bromoethane,T
ACETONITRILE,T
ACETONE,P,T,M
ACETONITRILE,T
ACETONE,P,T,M
ACETONITRILE,T
ACETONITRILE,T
ACETONITRILE,T

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 09.D
Acq On : 18 Nov 2015 4:48 am
Operator : 189
Sample : BLANK 1x WG829608
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:50:25 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	252564	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	448814	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	75035	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	163006	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	252564	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	448814	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	75035	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	163006	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	129192	40.3770302 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.94%		
46) a,a,a-Trifluorotoluene	4.791	146	241187	41.7766116 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.44%		
50) TOLUENE-D8	5.247	98	578552	41.1335184 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.83%		
68) 4-BROMOFLUOROBENZENE	7.127	95	187000	39.1544759 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.89%		

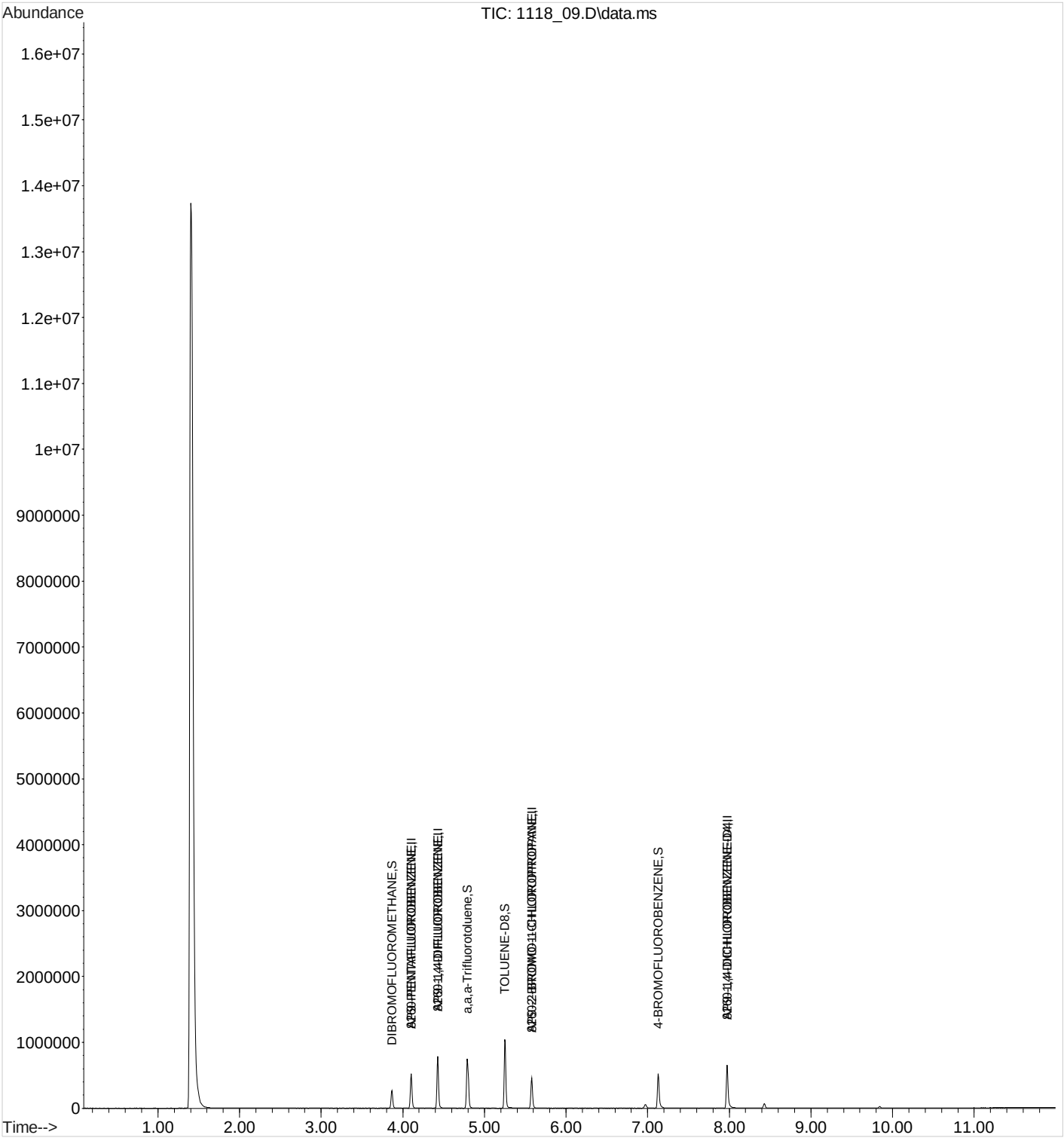
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 09.D
Acq On : 18 Nov 2015 4:48 am
Operator : 189
Sample : BLANK 1x WG829608
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:50:25 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 10.D
Acq On : 18 Nov 2015 5:08 am
Operator : 189
Sample : MS 1x WG829608 L801221-01
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:06 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	252150	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	438996	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.576	79	78057	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	7.972	152	176765	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	252150	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	438996	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.576	79	78057	40.0000000	ppb	-0.01
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	176765	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	132063	41.3420858	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.36%			
46) a,a,a-Trifluorotoluene	4.791	146	235438	41.6928621	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.23%			
50) TOLUENE-D8	5.247	98	569281	41.3795708	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.45%			
68) 4-BROMOFLUOROBENZENE	7.127	95	191542	38.5527940	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.38%			
Target Compounds						Qvalue
3) PROPENE	1.554	41	8644	6.2080399	ppb #	84
4) DICHLORODIFLUOROMETHANE	1.591	85	101484	33.5710431	ppb	97
5) CHLOROMETHANE	1.743	50	150976	27.4239610	ppb	99
6) VINYL CHLORIDE	1.816	62	146009	26.2375984	ppb	99
7) 1,3-BUTADIENE	1.816	39	104073	21.4516199	ppb	99
8) BROMOMETHANE	2.047	94	84133	25.9518789	ppb	97
9) CHLOROETHANE	2.138	64	88837	23.8904485	ppb	99
10) TRICHLOROFLUOROMETHANE	2.223	101	157055	29.1047761	ppb	100
11) DICHLOROFLUOROMETHANE	2.254	67	206228	26.1477028	ppb	98
12) ETHYL ETHER	2.406	59	84558	24.2714023	ppb	99
13) ACROLEIN	2.741	56	65754	123.4902237	ppb	98
14) 1,1-DICHLOROETHENE	2.540	61	163324	24.4095299	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	96968	25.7235354	ppb	99
16) ACETONE	2.911	43	114068	58.6084828	ppb	100
17) IODOMETHANE	2.637	142	719942	129.6733342	ppb	100
18) CARBON DISULFIDE	2.576	76	366922	25.3441648	ppb	99
19) METHYLENE CHLORIDE	2.881	84	106378	25.3043887	ppb	99
20) ACRYLONITRILE	3.355	53	155417	136.6181938	ppb	97
21) n-Hexane	3.008	56	120501	24.8044717	ppb	93
22) TRANS-1,2-DICHLOROETHENE	2.978	96	104257	25.8425108	ppb	97
23) METHYL TERT-BUTYL ETHER	3.027	73	253511	25.4535952	ppb	98
24) 1,1-DICHLOROETHANE	3.325	63	213504	25.9234596	ppb	99
25) VINYL ACETATE	3.440	43	1117733	159.5854754	ppb	100
26) DI-ISOPROPYL ETHER	3.227	45	405741	25.4002262	ppb	100
27) 2,2-Dichloropropane	3.684	77	135783	27.2801075	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.623	96	109394	25.6660511	ppb	99
29) 2-BUTANONE (MEK)	3.927	43	204416	99.7808570	ppb	98
30) BROMOCHLOROMETHANE	3.732	130	54168	26.4926918	ppb	98
31) TETRAHYDROFURAN	3.866	42	27443	25.1263457	ppb	94
32) CHLOROFORM	3.763	83	180751	26.4586930	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.890	97	148093	27.6589330	ppb	97
35) CARBON TETRACHLORIDE	3.854	117	122999	27.4246957	ppb	99
36) 1,1-Dichloropropene	3.957	75	154297	26.6150243	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 10.D
Acq On : 18 Nov 2015 5:08 am
Operator : 189
Sample : MS 1x WG829608 L801221-01
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:06 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.000	57	553426	26.3113483	ppb		98
38)	HEPTANE	4.042	43	252349	25.2356561	ppb	#	99
39)	BENZENE	4.097	78	459298	25.3879586	ppb		100
40)	1,2-DICHLOROETHANE	4.213	62	125716	26.0142337	ppb		99
42)	TRICHLOROETHENE	4.420	130	97900	26.6993559	ppb		98
43)	1,2-DICHLOROPROPANE	4.730	62	87186	27.0390608	ppb		98
44)	DIBROMOMETHANE	4.675	93	52421	27.8809161	ppb		98
45)	BROMODICHLOROMETHANE	4.754	83	137089	27.3395814	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.077	63	4718	3.1078020	ppb	#	91
48)	CIS-1,3-DICHLOROPROPENE	5.131	75	173797	27.5069370	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.496	43	481347	141.9824642	ppb		98
51)	TOLUENE	5.284	91	469370	25.2845909	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.533	75	154405	28.7498859	ppb		100
54)	1,1,2-TRICHLOROETHANE	5.642	97	77630	26.2212183	ppb		99
55)	TETRACHLOROETHENE	5.533	164	74782	25.9267189	ppb		99
56)	1,3-Dichloropropane	5.831	76	151103	25.6294369	ppb		99
57)	2-HEXANONE	6.044	58	179208	113.1553152	ppb		99
58)	CHLORODIBROMOMETHANE	5.770	129	80812	27.8000212	ppb		100
59)	1,2-DIBROMOETHANE	5.941	107	73756	26.7744486	ppb		100
60)	CHLOROBENZENE	6.281	112	267877	25.8300927	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.318	133	82286	27.0414703	ppb	#	99
62)	ETHYLBENZENE	6.281	106	156479	26.3846345	ppb		95
63)	M&P-XYLENE	6.379	106	380089	51.1237790	ppb		100
64)	O-XYLENE	6.689	106	177414	25.6940451	ppb		100
65)	STYRENE	6.725	104	291932	27.2495807	ppb		100
66)	Bromoform	6.762	173	47439	29.0732366	ppb		98
67)	Isopropylbenzene	6.902	105	481414	26.0670841	ppb		99
69)	Bromobenzene	7.212	77	219854	25.0680168	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.255	83	109609	28.9634755	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.370	110	26215	26.7882049	ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.395	53	28017	29.1590563	ppb	#	98
73)	n-Propylbenzene	7.206	91	615802	26.3422784	ppb		100
74)	4-ETHYLTOLUENE	7.285	105	479985	26.8389681	ppb		100
75)	2-Chlorotoluene	7.340	126	106337	26.3625160	ppb		97
76)	4-Chlorotoluene	7.461	91	347466	26.4144879	ppb		100
77)	1,3,5-Trimethylbenzene	7.346	105	403874	26.0323182	ppb		99
78)	tert-Butylbenzene	7.595	119	318572	26.4084854	ppb		99
79)	1,2,4-Trimethylbenzene	7.644	105	392473	26.6143284	ppb		100
80)	sec-Butylbenzene	7.729	105	536868	26.9720866	ppb		100
81)	1,3-DICHLOROBENZENE	7.918	146	194721	27.4089575	ppb		100
82)	p-Isopropyltoluene	7.833	119	422033	27.3715134	ppb		99
83)	DICYCLOPENTADIENE	7.833	66	564271	26.0655340	ppb		99
85)	1,4-DICHLOROBENZENE	7.985	146	194584	25.9544048	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	7.985	105	398611	26.0008324	ppb		100
87)	1,2-DICHLOROBENZENE	8.319	146	178860	26.6428273	ppb		99
88)	n-Butylbenzene	8.167	91	443282	29.7097591	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.964	157	16026	27.1127438	ppb		97
90)	1,2,4-Trichlorobenzene	9.512	180	117883	29.8059795	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.475	225	68537	29.1440910	ppb		99
92)	Naphthalene	9.785	128	279092	29.4281188	ppb		100
93)	1,2,3-Trichlorobenzene	9.944	180	108297	27.6892373	ppb		98
97)	ETHANOL	2.479	45	839	18.4907052	ppb	#	20
100)	Methyl Acetate	3.008	43	208580	77.1508601	ppb	#	69
101)	ACETONITRILE	3.221	41	63491	149.2054584	ppb	#	40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 10.D
Acq On : 18 Nov 2015 5:08 am
Operator : 189
Sample : MS 1x WG829608 L801221-01
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:06 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

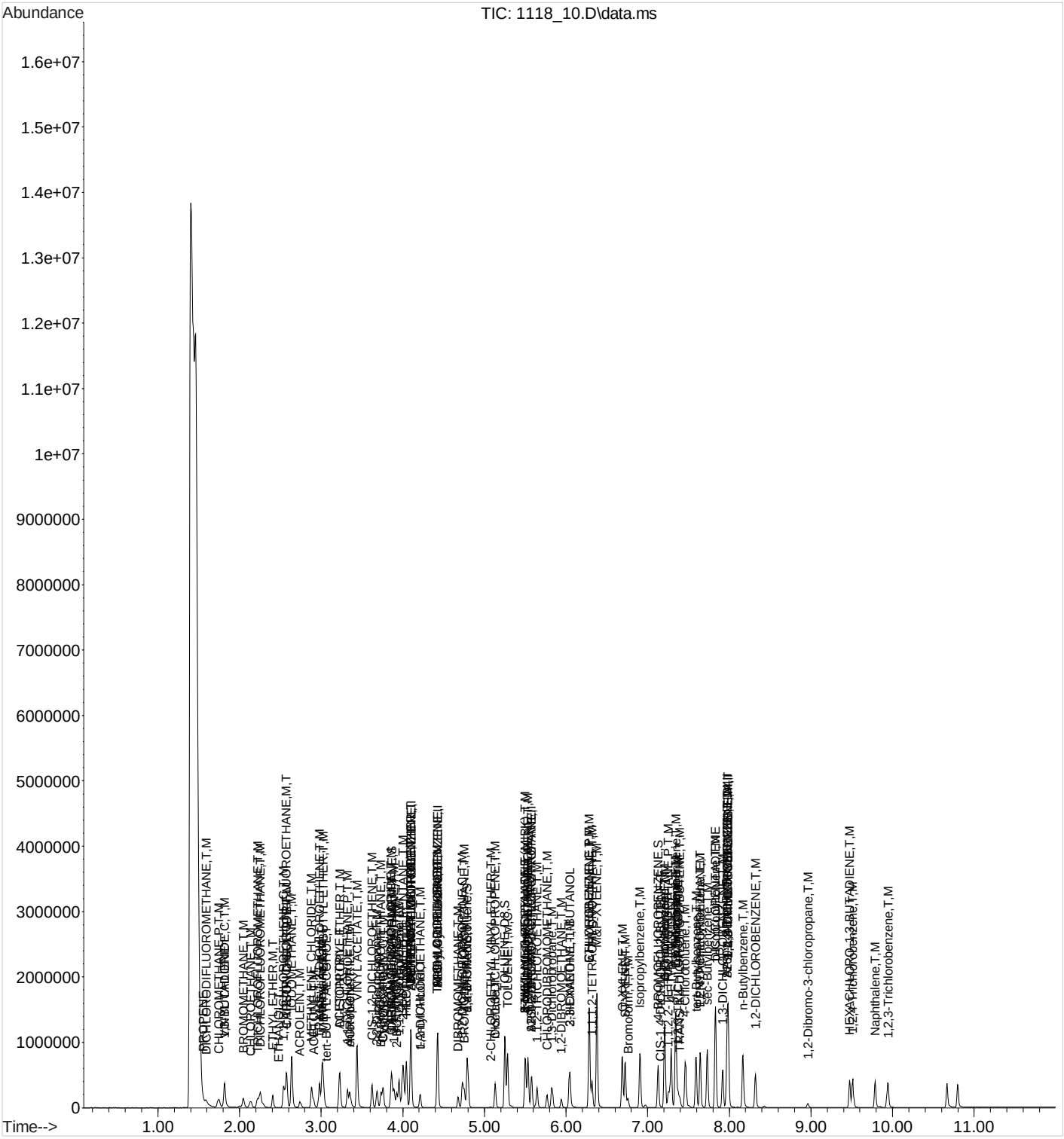
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
103) tert-BUTYL ALCOHOL	3.063	59	2593	2.7723628 ppb #	61
104) chloroprene	3.355	53	155417	20.7624795 ppb #	26
106) PROPIONITRILE	4.042	54	2255	4.5983279 ppb #	1
108) METHACRYLONITRILE	4.097	67	1016	0.6775495 ppb #	1
109) Cyclohexane	3.757	84	6959	0.7030040 ppb #	1
112) t-Amyl Alcohol	4.213	59	746	2.4986083 ppb #	25
113) TERT-AMYL METHYL ETHER	4.097	73	8313	0.6081592 ppb #	54
116) Methyl Cyclohexane	4.426	83	8161	0.6724271 ppb #	45
117) 2-nitropropane	5.496	43	481347	521.0524463 ppb #	39
119) 1,4-DIOXANE	4.791	88	2808	82.6280648 ppb #	36
120) n-octane	5.131	85	2216	0.4943156 ppb #	28
121) 3,3-DIMETHYL-1-BUTANOL	6.044	57	57741	163.6672834 ppb #	46
123) ETHYL METHACRYLATE	5.496	69	3275	0.7239454 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.157	53	1128	1.0985863 ppb #	19
125) Cyclohexanone	7.346	55	1039	1.4501213 ppb #	50
126) PENTACHLOROETHANE	7.644	117	13608	6.1705851 ppb #	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 10.D
Acq On : 18 Nov 2015 5:08 am
Operator : 189
Sample : MS 1x WG829608 L801221-01
Misc : water
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:06 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 11.D
Acq On : 18 Nov 2015 5:28 am
Operator : 189
Sample : MSD 1x WG829608 L801221-01
Misc : water
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:32 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	249646	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	447360	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	77760	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	184183	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	249646	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	447360	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	77760	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	184183	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	129176	40.8439201	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.11%			
46) a,a,a-Trifluorotoluene	4.791	146	233493	40.5753643	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.44%			
50) TOLUENE-D8	5.247	98	565393	40.3285988	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.82%			
68) 4-BROMOFLUOROBENZENE	7.127	95	197328	39.8690748	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.67%			
Target Compounds						Qvalue
3) PROPENE	1.554	41	10446	7.5774683	ppb	98
4) DICHLORODIFLUOROMETHANE	1.591	85	100270	33.5021466	ppb	98
5) CHLOROMETHANE	1.743	50	161514	29.6323982	ppb	99
6) VINYL CHLORIDE	1.816	62	152686	27.7126484	ppb	99
7) 1,3-BUTADIENE	1.816	39	107002	22.2765676	ppb	100
8) BROMOMETHANE	2.047	94	90517	28.2011581	ppb	98
9) CHLOROETHANE	2.138	64	91273	24.7917455	ppb	99
10) TRICHLOROFLUOROMETHANE	2.217	101	156823	29.3532784	ppb	99
11) DICHLOROFLUOROMETHANE	2.260	67	210686	26.9808700	ppb	98
12) ETHYL ETHER	2.406	59	85417	24.7638886	ppb	97
13) ACROLEIN	2.741	56	68478	129.8960151	ppb	100
14) 1,1-DICHLOROETHENE	2.540	61	171924	25.9525643	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	102195	27.3820669	ppb	99
16) ACETONE	2.911	43	114542	59.4423232	ppb	99
17) IODOMETHANE	2.637	142	727972	132.4348255	ppb	99
18) CARBON DISULFIDE	2.576	76	378811	26.4278099	ppb	100
19) METHYLENE CHLORIDE	2.887	84	108312	26.0228564	ppb	99
20) ACRYLONITRILE	3.355	53	161977	143.8128621	ppb	99
21) n-Hexane	3.008	56	125050	25.9990445	ppb	95
22) TRANS-1,2-DICHLOROETHENE	2.978	96	106224	26.5941733	ppb	97
23) METHYL TERT-BUTYL ETHER	3.027	73	255500	25.9106072	ppb	98
24) 1,1-DICHLOROETHANE	3.325	63	218750	26.8268305	ppb	99
25) VINYL ACETATE	3.434	43	1156266	166.7429207	ppb	100
26) DI-ISOPROPYL ETHER	3.227	45	415514	26.2729422	ppb	100
27) 2,2-Dichloropropane	3.684	77	135172	27.4297455	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.623	96	111370	26.3917465	ppb	99
29) 2-BUTANONE (MEK)	3.927	43	209740	103.4065308	ppb	100
30) BROMOCHLOROMETHANE	3.738	130	56955	28.1351674	ppb	99
31) TETRAHYDROFURAN	3.866	42	29093	26.9042329	ppb	99
32) CHLOROFORM	3.763	83	186673	27.5996482	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.890	97	148047	27.9276802	ppb	98
35) CARBON TETRACHLORIDE	3.854	117	132955	29.9418942	ppb	99
36) 1,1-Dichloropropene	3.957	75	153249	26.6993934	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 11.D
Acq On : 18 Nov 2015 5:28 am
Operator : 189
Sample : MSD 1x WG829608 L801221-01
Misc : water
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:32 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.000	57	563391	27.0537711 ppb		99
38)	HEPTANE	4.042	43	262264	26.4902498 ppb	#	97
39)	BENZENE	4.097	78	467810	26.1178299 ppb		99
40)	1,2-DICHLOROETHANE	4.207	62	130583	27.2923848 ppb		100
42)	TRICHLOROETHENE	4.420	130	99625	26.6618229 ppb		98
43)	1,2-DICHLOROPROPANE	4.730	62	88653	26.9799847 ppb		99
44)	DIBROMOMETHANE	4.675	93	55574	29.0052630 ppb		96
45)	BROMODICHLOROMETHANE	4.754	83	140737	27.5423475 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.077	63	2731	1.7653081 ppb	#	88
48)	CIS-1,3-DICHLOROPROPENE	5.131	75	180923	28.0994067 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.496	43	489808	141.7769821 ppb		100
51)	TOLUENE	5.284	91	481439	25.4498534 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.533	75	162419	29.6766593 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.642	97	78872	26.7424835 ppb		99
55)	TETRACHLOROETHENE	5.533	164	76543	26.6386104 ppb		99
56)	1,3-Dichloropropane	5.825	76	155336	26.4480526 ppb		100
57)	2-HEXANONE	6.044	58	183839	116.4866779 ppb		100
58)	CHLORODIBROMOMETHANE	5.770	129	84010	29.0105432 ppb		98
59)	1,2-DIBROMOETHANE	5.941	107	75591	27.5453868 ppb		100
60)	CHLOROBENZENE	6.281	112	272639	26.3896799 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.318	133	84216	27.7814279 ppb	#	99
62)	ETHYLBENZENE	6.281	106	157943	26.7332036 ppb		98
63)	M&P-XYLENE	6.379	106	388486	52.4527937 ppb		98
64)	O-XYLENE	6.689	106	182988	26.6025218 ppb		100
65)	STYRENE	6.725	104	291831	27.3441954 ppb		99
66)	Bromoform	6.762	173	48548	29.8665325 ppb		100
67)	Isopropylbenzene	6.902	105	491324	26.7052913 ppb		99
69)	Bromobenzene	7.212	77	229753	26.2967696 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.255	83	112186	29.7576565 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.370	110	27039	27.7357542 ppb		95
72)	TRANS-1,4-DICHLORO-2-B...	7.395	53	28243	29.4875760 ppb	#	98
73)	n-Propylbenzene	7.206	91	634318	27.2379789 ppb		99
74)	4-ETHYLTOLUENE	7.285	105	490652	27.5402150 ppb		100
75)	2-Chlorotoluene	7.340	126	110868	27.5907985 ppb		99
76)	4-Chlorotoluene	7.461	91	358515	27.3585336 ppb		100
77)	1,3,5-Trimethylbenzene	7.346	105	417579	27.0184980 ppb		100
78)	tert-Butylbenzene	7.595	119	327972	27.2915539 ppb		99
79)	1,2,4-Trimethylbenzene	7.644	105	400880	27.2882522 ppb		99
80)	sec-Butylbenzene	7.729	105	548212	27.6472009 ppb		99
81)	1,3-DICHLOROBENZENE	7.918	146	205274	29.0047600 ppb		100
82)	p-Isopropyltoluene	7.833	119	437922	28.5104956 ppb		99
83)	DICYCLOPENTADIENE	7.833	66	574731	26.6501171 ppb		99
85)	1,4-DICHLOROBENZENE	7.985	146	201594	25.8064511 ppb		96
86)	1,2,3-TRIMETHYLBENZENE	7.985	105	408386	25.5655743 ppb		99
87)	1,2-DICHLOROBENZENE	8.319	146	183069	26.1715008 ppb		99
88)	n-Butylbenzene	8.167	91	455362	29.2902146 ppb		100
89)	1,2-Dibromo-3-chloropr...	8.964	157	16947	27.5086990 ppb		95
90)	1,2,4-Trichlorobenzene	9.512	180	123582	29.9884606 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.475	225	71082	29.0089358 ppb		98
92)	Naphthalene	9.785	128	299610	30.3192289 ppb		99
93)	1,2,3-Trichlorobenzene	9.944	180	117191	28.7564693 ppb		99
100)	Methyl Acetate	3.014	43	210806	78.7563240 ppb	#	69
101)	ACETONITRILE	3.227	41	64345	152.7290709 ppb	#	40
103)	tert-BUTYL ALCOHOL	3.063	59	2663	2.8757629 ppb	#	61

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 11.D
Acq On : 18 Nov 2015 5:28 am
Operator : 189
Sample : MSD 1x WG829608 L801221-01
Misc : water
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:32 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

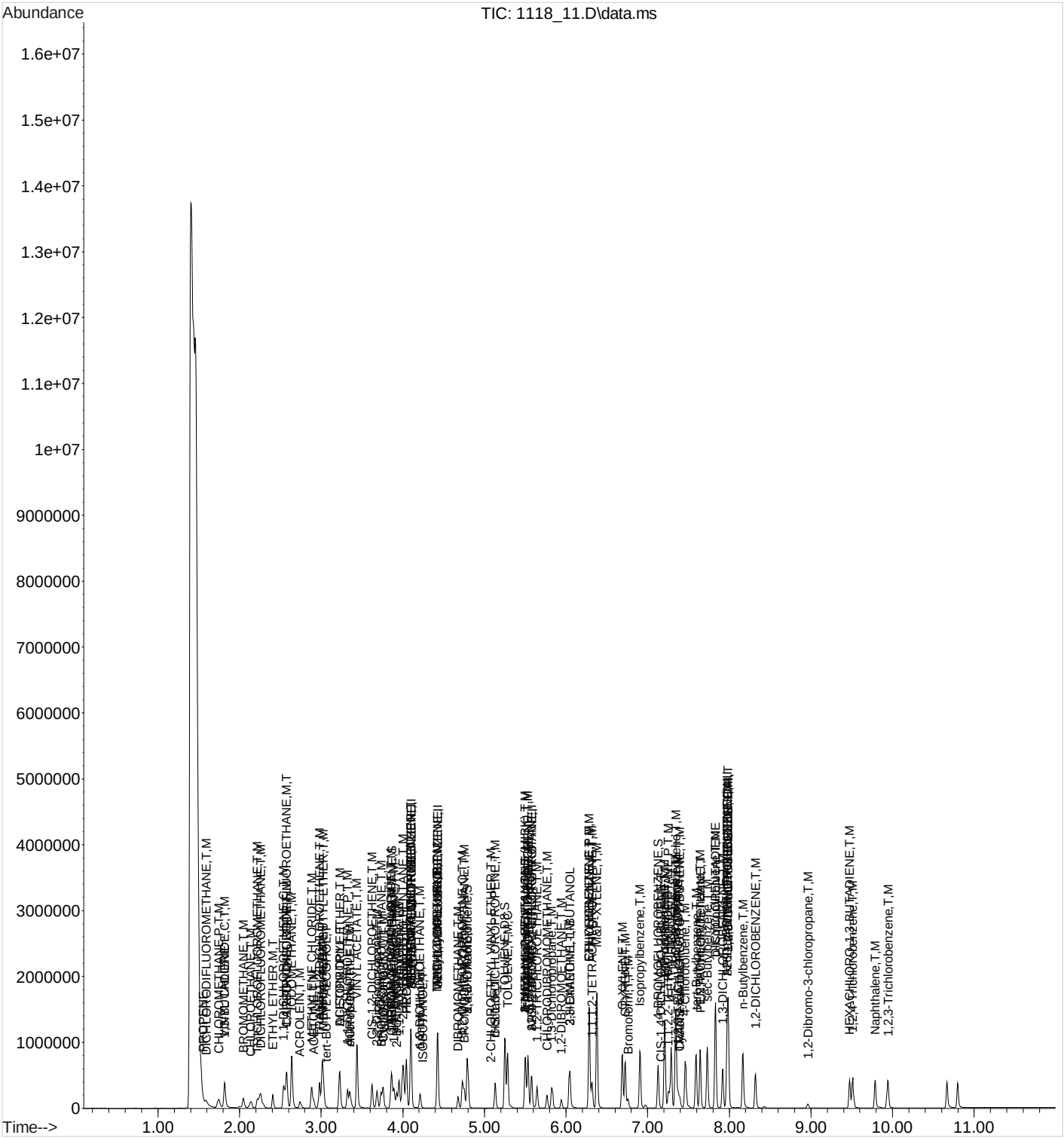
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) chloroprene	3.355	53	161977	21.8558855	ppb #	26
106) PROPIONITRILE	4.042	54	2008	4.1357231	ppb #	1
108) METHACRYLONITRILE	4.103	67	919	0.6190093	ppb #	1
109) Cyclohexane	3.763	84	7313	0.7461754	ppb #	3
111) ISOBUTANOL	4.243	43	586	2.4865183	ppb #	28
112) t-Amyl Alcohol	4.213	59	711	2.4052671	ppb #	25
113) TERT-AMYL METHYL ETHER	4.097	73	8249	0.6095301	ppb #	59
116) Methyl Cyclohexane	4.420	83	8503	0.6875075	ppb #	45
117) 2-nitropropane	5.496	43	489808	520.2983604	ppb #	40
119) 1,4-DIOXANE	4.791	88	2887	83.3644089	ppb #	19
120) n-octane	5.131	85	2238	0.4898894	ppb #	24
121) 3,3-DIMETHYL-1-BUTANOL	6.044	57	61151	170.0922593	ppb #	48
123) ETHYL METHACRYLATE	5.503	69	2972	0.6594758	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.163	53	1369	1.3383945	ppb #	8
125) Cyclohexanone	7.395	55	562	0.7873733	ppb #	23
126) PENTACHLOROETHANE	7.650	117	14470	6.5865225	ppb #	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 11.D
Acq On : 18 Nov 2015 5:28 am
Operator : 189
Sample : MSD 1x WG829608 L801221-01
Misc : water
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 18 08:28:32 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 16.D
Acq On : 18 Nov 2015 7:09 am
Operator : 189
Sample : L801110-01 1x WG829608 V8260
Misc : water
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:51:16 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

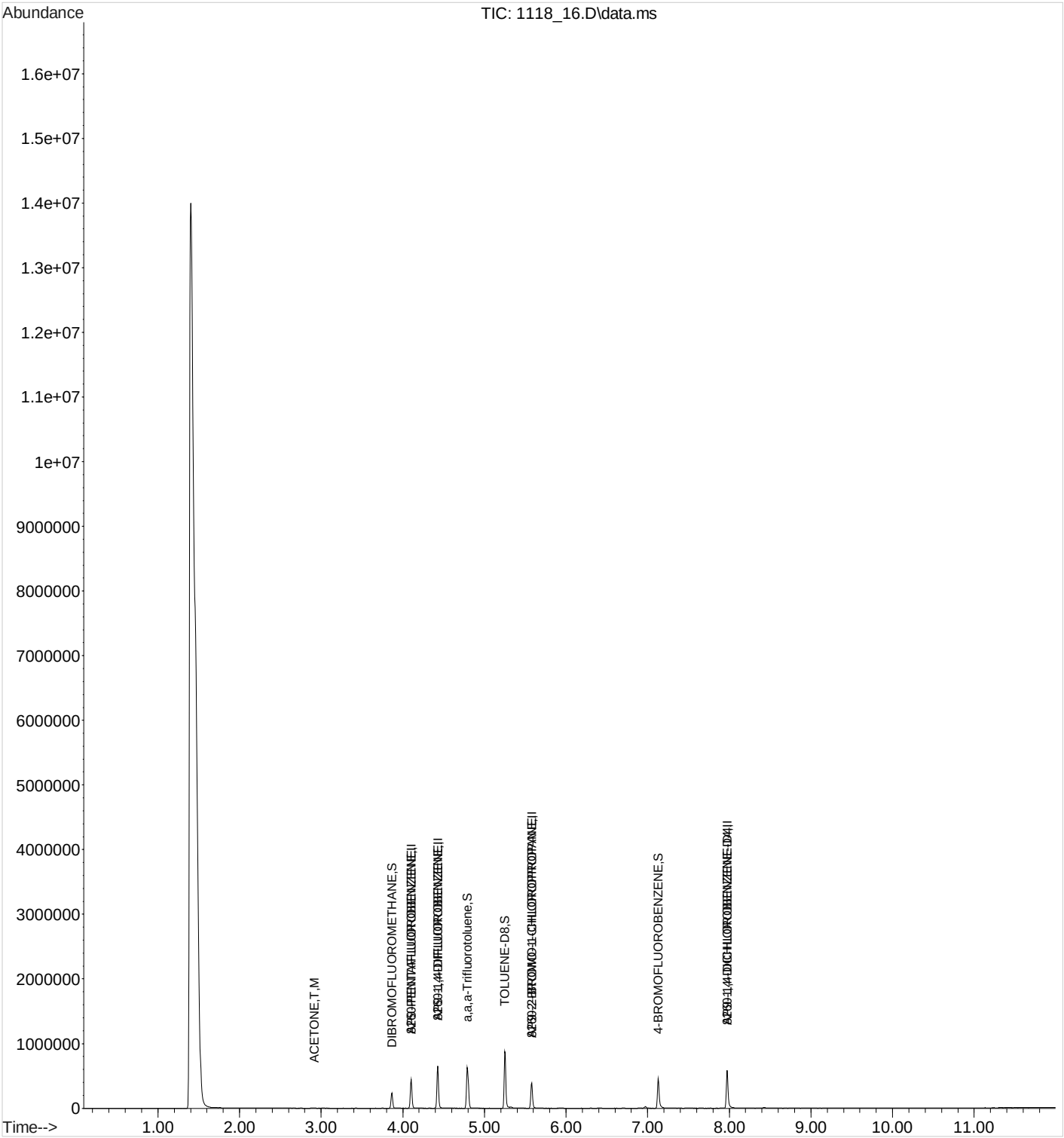
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	215804	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	383907	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	66646	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	142848	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	215804	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	383907	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	66646	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	142848	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	113708	41.5912266	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.98%			
46) a,a,a-Trifluorotoluene	4.791	146	205048	41.5217089	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.80%			
50) TOLUENE-D8	5.247	98	490382	40.7594528	ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.90%			
68) 4-BROMOFLUOROBENZENE	7.127	95	158565	37.3797970	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 93.45%			
Target Compounds						Qvalue
16) ACETONE	2.917	43	4190	2.5154180	ppb #	87

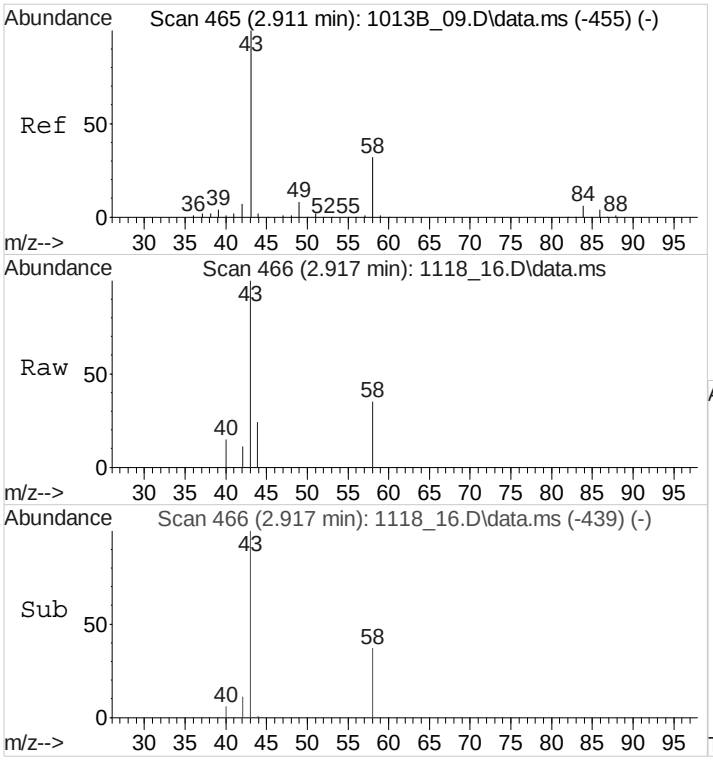
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 16.D
Acq On : 18 Nov 2015 7:09 am
Operator : 189
Sample : L801110-01 1x WG829608 V8260
Misc : water
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:51:16 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

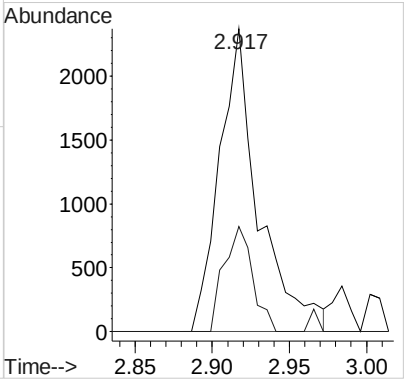




#16
ACETONE
Concen: 2.5154180 ppb
RT: 2.917 min Scan# 466
Delta R.T. 0.007 min
Lab File: 1118 16.D
Acq: 18 Nov 2015 7:09 am

Tgt Ion: 43 Resp: 4190

Ion	Ratio	Lower	Upper
43	100		
58	25.5	26.4	39.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 17.D
Acq On : 18 Nov 2015 7:30 am
Operator : 189
Sample : L801110-02 1x WG829608 V8260
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:51:46 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

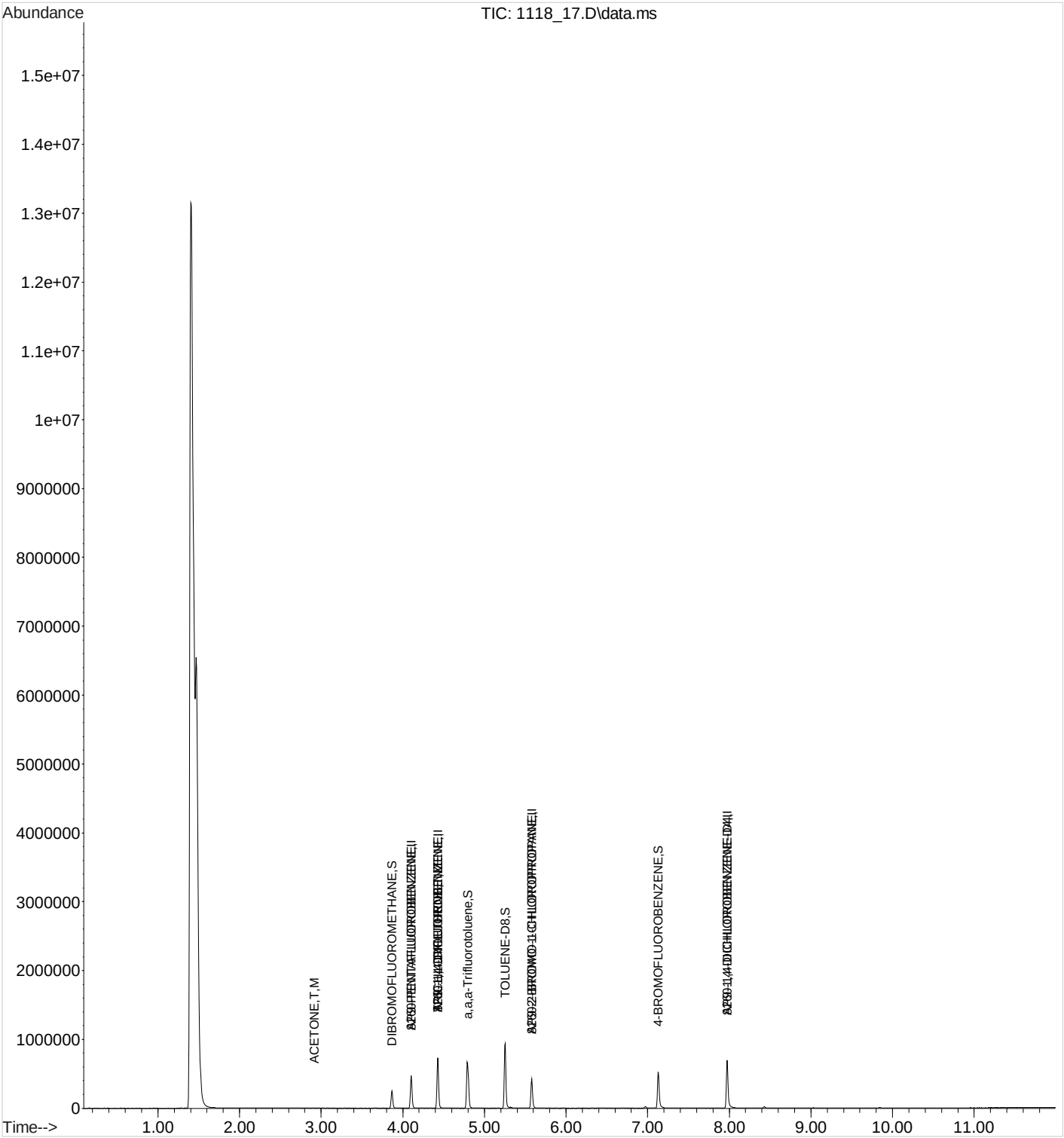
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	237466	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	412348	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	72047	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	165846	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	237466	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	412348	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	72047	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	165846	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	119696	39.7876600	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.47%			
46) a,a,a-Trifluorotoluene	4.797	146	224343	42.2955175	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.74%			
50) TOLUENE-D8	5.253	98	526300	40.7276482	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.82%			
68) 4-BROMOFLUOROBENZENE	7.127	95	184059	40.1369948	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.34%			
Target Compounds						Qvalue
16) ACETONE	2.917	43	1150	0.6274109	ppb #	42
42) TRICHLOROETHENE	4.426	130	11531	3.3479714	ppb	98

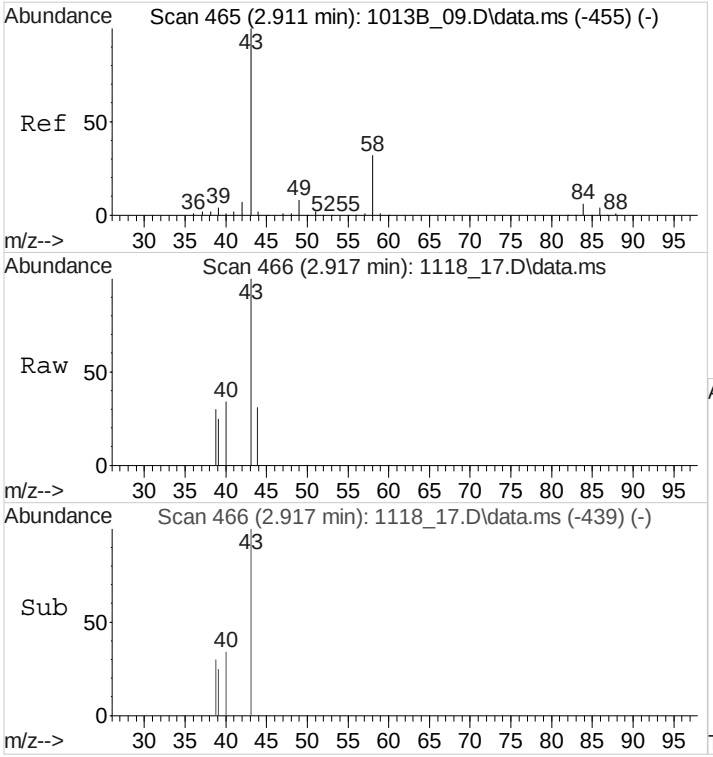
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111815\
Data File : 1118 17.D
Acq On : 18 Nov 2015 7:30 am
Operator : 189
Sample : L801110-02 1x WG829608 V8260
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Feb 02 14:51:46 2016
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

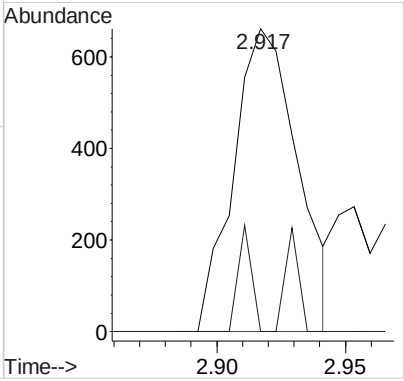


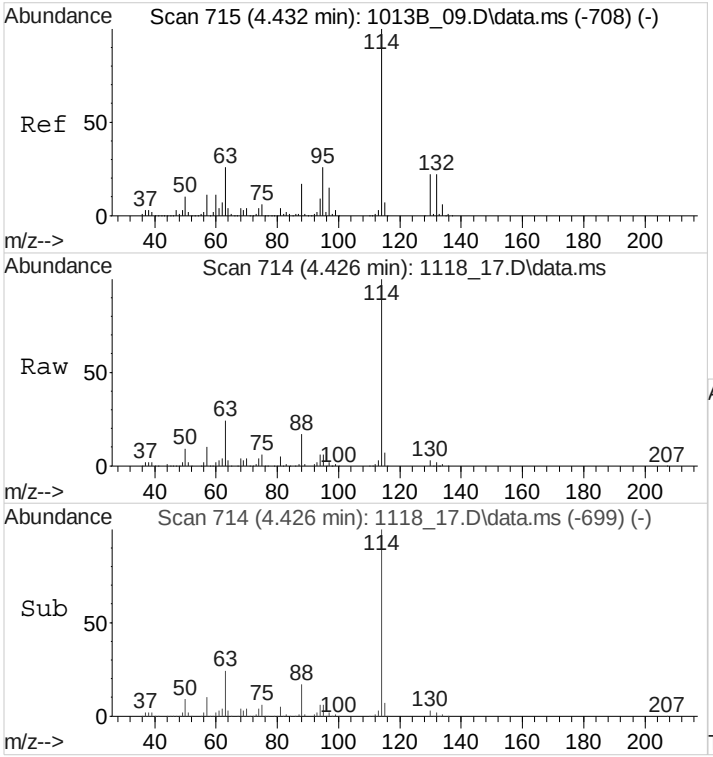


#16
ACETONE
Concen: 0.6274109 ppb
RT: 2.917 min Scan# 466
Delta R.T. 0.007 min
Lab File: 1118 17.D
Acq: 18 Nov 2015 7:30 am

Tgt Ion: 43 Resp: 1150

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.4	39.6#

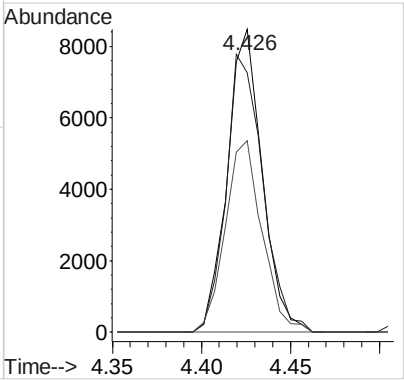




#42
TRICHLOROETHENE
Concen: 3.3479714 ppb
RT: 4.426 min Scan# 714
Delta R.T. -0.006 min
Lab File: 1118_17.D
Acq: 18 Nov 2015 7:30 am

Tgt Ion:130 Resp: 11531

Ion	Ratio	Lower	Upper
130	100		
132	96.3	76.8	115.2
97	66.6	55.4	83.2



Calibration

Instrument: VOCMS18
Method: V818J13O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1013B_03.D	.25	10/13/2015 6:48:00 PM
1013B_04.D	.5	10/13/2015 7:08:00 PM
1013B_05.D	1	10/13/2015 7:28:00 PM
1013B_06.D	2	10/13/2015 7:48:00 PM
1013B_07.D	5.0	10/13/2015 8:09:00 PM
1013B_08.D	10	10/13/2015 8:29:00 PM
1013B_09.D	25	10/13/2015 8:49:00 PM
1013B_10.D	40	10/13/2015 9:09:00 PM
1013B_11.D	75	10/13/2015 9:30:00 PM
1013B_12.D	100	10/13/2015 9:50:00 PM
1013B_13.D	200	10/13/2015 10:11:00 PM
1013B_18.D	1A	10/14/2015 12:30:00 AM
1013B_19.D	2.5A	10/14/2015 12:51:00 AM
1013B_20.D	5A	10/14/2015 1:11:00 AM
1013B_21.D	7.5A	10/14/2015 1:31:00 AM
1013B_22.D	10A	10/14/2015 1:52:00 AM
1013B_23.D	12A	10/14/2015 2:12:00 AM
1013B_24.D	15A	10/14/2015 2:33:00 AM
1013B_25.D	17A	10/14/2015 2:53:00 AM
1013B_26.D	20A	10/14/2015 3:14:00 AM
1013B_31.D	.4	10/14/2015 4:56:00 AM
1013B_32.D	1	10/14/2015 5:16:00 AM
1013B_33.D	2	10/14/2015 5:36:00 AM
1013B_34.D	4	10/14/2015 5:57:00 AM
1013B_35.D	5	10/14/2015 6:17:00 AM
1013B_36.D	7	10/14/2015 6:37:00 AM
1013B_37.D	10	10/14/2015 6:57:00 AM
1013B_38.D	20	10/14/2015 7:18:00 AM

Mint Miner 2.6.4 Directory Scan: z:\101315b

14 Oct 2015 13:17

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101315b\1013B_01.D					
Original Path: 1013B_01.D					
0	Scanned		591	VOCMS18	INSTBLK (water IS/SURR15D18333)
Scan File Path: z:\101315b\1013B_02.D					
Original Path: C:\msdchem\1\data\101315b\1013B_02.D\data.ms					
0	Scanned		591	VOCMS18	INSTBLK (water IS/SURR15D18333)
Scan File Path: z:\101315b\1013B_03.D					
Original Path: C:\msdchem\1\data\101315b\1013B_03.D					
20	Scanned	D(15), MZ(5)	591	VOCMS18	LOD VMS .25 ppb 15J05152 (water IS/SURR15
Scan File Path: z:\101315b\1013B_04.D					
Original Path: C:\msdchem\1\data\101315b\1013B_04.D					
24	Scanned	M(2), D(17), MZ(5)	591	VOCMS18	STD VMS .5 ppb 15J05152 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_05.D					
Original Path: C:\msdchem\1\data\101315b\1013B_05.D					
24	Scanned	M(1), D(18), MZ(5)	591	VOCMS18	STD VMS 1 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_05A.D					
Original Path: C:\msdchem\1\data\101315b\1013B_05.D					
24	Scanned	M(1), D(18), MZ(5)	591	VOCMS18	STD VMS 1 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_06.D					
Original Path: C:\msdchem\1\data\101315b\1013B_06.D					
25	Scanned	D(20), MZ(5)	591	VOCMS18	STD VMS 2 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_06A.D					
Original Path: C:\msdchem\1\data\101315b\1013B_06.D					
25	Scanned	D(20), MZ(5)	591	VOCMS18	STD VMS 2 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_07.D					
Original Path: C:\msdchem\1\data\101315b\1013B_07.D					
31	Scanned	D(26), MZ(5)	591	VOCMS18	STD VMS 5 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_07A.D					
Original Path: C:\msdchem\1\data\101315b\1013B_07.D					
31	Scanned	D(26), MZ(5)	591	VOCMS18	STD VMS 5 ppb 15J05152 (water IS/SURR15D1
Scan File Path: z:\101315b\1013B_08.D					
Original Path: C:\msdchem\1\data\101315b\1013B_08.D					
32	Scanned	D(27), MZ(5)	591	VOCMS18	STD VMS 10 ppb 15J05152 (water IS/SURR15D

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101315b\1013B_09.D					
Original Path: C:\msdchem\1\data\101315b\1013B_09.D					
94	Scanned	D(87), QM(1), MZ(5)	591	VOCMS18	MSTD VMS 25 ppb 15J05152 (water IS/SURR1
Scan File Path: z:\101315b\1013B_10.D					
Original Path: C:\msdchem\1\data\101315b\1013B_10.D					
30	Scanned	D(29), ENR(1)	591	VOCMS18	STD VMS 40 ppb 15J05152 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_11.D					
Original Path: C:\msdchem\1\data\101315b\1013B_11.D					
30	Scanned	D(29), ENR(1)	591	VOCMS18	STD VMS 75 ppb 15J05152 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_12.D					
Original Path: C:\msdchem\1\data\101315b\1013B_12.D					
29	Scanned	D(28), ENR(1)	591	VOCMS18	STD VMS 100 ppb 15J05152 (water IS/SURR15
Scan File Path: z:\101315b\1013B_13.D					
Original Path: C:\msdchem\1\data\101315b\1013B_13.D					
32	Scanned	D(31), ENR(1)	591	VOCMS18	STD VMS 200 ppb 15J05152 (water IS/SURR15
Scan File Path: z:\101315b\1013B_14.D					
Original Path: z:\101315b\1013B_14.D					
0	No Audit				
Scan File Path: z:\101315b\1013B_15.D					
Original Path: C:\msdchem\1\data\101315b\1013B_15.D\data.ms					
2	Scanned	QM(1)	591	VOCMS18	SSCV VMS 25 ppb 15J11487 (water IS/SURR15
Scan File Path: z:\101315b\1013B_16.D					
Original Path: z:\101315b\1013B_16.D					
0	No Audit				
Scan File Path: z:\101315b\1013B_17.D					
Original Path: C:\msdchem\1\data\101315b\1013B_17.D\data.ms					
0	Scanned		591	VOCMS18	LOD AP9 .5a ppb 15H20824 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_18.D					
Original Path: C:\msdchem\1\data\101315b\1013B_18.D					
89	Scanned	D(56), DK(5), DC(4), DS(2), DB(3), DP(2), M(1), MZ(4)	591	VOCMS18	STD VMS 1a ppb 15H20824 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_18A.D					
Original Path: C:\msdchem\1\data\101315b\1013B_18.D					
89	Scanned	D(56), DK(5), DC(4), DS(2), DB(3), DP(2), M(1), MZ(4)	591	VOCMS18	STD VMS 1a ppb 15H20824 (water IS/SURR15I

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101315b\1013B_19.D					
Original Path: C:\msdchem\1\data\101315b\1013B_19.D					
88	Scanned	D(58), DC(4), DK(3), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	STD VMS 2.5a ppb 15H20824 (water IS/SURR1
Scan File Path: z:\101315b\1013B_20.D					
Original Path: C:\msdchem\1\data\101315b\1013B_20.D					
89	Scanned	D(58), DC(4), DK(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	STD VMS 5a ppb 15H20824 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_21.D					
Original Path: C:\msdchem\1\data\101315b\1013B_21.D					
87	Scanned	D(56), DC(4), DK(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	STD VMS 7.5a ppb 15H20824 (water IS/SURR1
Scan File Path: z:\101315b\1013B_22.D					
Original Path: C:\msdchem\1\data\101315b\1013B_22.D					
87	Scanned	D(56), DC(4), DK(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	MSTD VMS 10a ppb 15H20824 (water IS/SURR
Scan File Path: z:\101315b\1013B_23.D					
Original Path: C:\msdchem\1\data\101315b\1013B_23.D					
86	Scanned	D(55), DC(4), DK(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	STD VMS 12.5a ppb 15H20824 (water IS/SURR
Scan File Path: z:\101315b\1013B_24.D					
Original Path: C:\msdchem\1\data\101315b\1013B_24.D					
85	Scanned	D(54), DC(4), DK(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS18	STD VMS 15a ppb 15H20824 (water IS/SURR15
Scan File Path: z:\101315b\1013B_25.D					
Original Path: C:\msdchem\1\data\101315b\1013B_25.D					
88	Scanned	D(56), DC(4), DK(4), DP(3), DS(2), DB(3), MZ(4)	591	VOCMS18	STD VMS 17.5a ppb 15H20824 (water IS/SURR
Scan File Path: z:\101315b\1013B_26.D					
Original Path: C:\msdchem\1\data\101315b\1013B_26.D					
172	Scanned	D(112), DC(8), DK(8), DP(6), DS(4), DB(6), MZ(4)	591	VOCMS18	STD VMS 20a ppb 15H20824 (water IS/SURR15
Scan File Path: z:\101315b\1013B_27.D					
Original Path: z:\101315b\1013B_27.D					
0	No Audit				
Scan File Path: z:\101315b\1013B_28.D					
Original Path: C:\msdchem\1\data\101315b\1013B_28.D\data.ms					
0	Scanned		591	VOCMS18	SSCV VMS 10a ppb 15H19752 (water IS/SURR

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101315b\1013B_29.D					
Original Path: 1013B_29.D					
0	Scanned		591	VOCMS18	INSTBLK (water IS/SURR15D18333)
Scan File Path: z:\101315b\1013B_30.D					
Original Path: C:\msdchem\1\data\101315b\1013B_30.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	LOD VMS .2 ppm 15J13587 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_31.D					
Original Path: C:\msdchem\1\data\101315b\1013B_31.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS .4 ppm 15J13587 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_32.D					
Original Path: C:\msdchem\1\data\101315b\1013B_32.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 1 ppm 15J13587 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_33.D					
Original Path: C:\msdchem\1\data\101315b\1013B_33.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 2 ppm 15J13587 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_34.D					
Original Path: C:\msdchem\1\data\101315b\1013B_34.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 4 ppm 15J13587 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_35.D					
Original Path: C:\msdchem\1\data\101315b\1013B_35.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	MSTD VMS 5 ppm 15J13587 (water IS/SURR15
Scan File Path: z:\101315b\1013B_36.D					
Original Path: C:\msdchem\1\data\101315b\1013B_36.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 7 ppm 15J13587 (water IS/SURR15D
Scan File Path: z:\101315b\1013B_37.D					
Original Path: C:\msdchem\1\data\101315b\1013B_37.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 10 ppm 15J13587 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_38.D					
Original Path: C:\msdchem\1\data\101315b\1013B_38.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	STD VMS 20 ppm 15J13587 (water IS/SURR15I
Scan File Path: z:\101315b\1013B_39.D					
Original Path: C:\msdchem\1\data\101315b\1013B_39.D\data.ms					
1	Scanned	M(1)	591	VOCMS18	DNRSSCV GROMS 5.0 ppm 15J13588 (water I

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101315b\1013B_40.D					
Original Path: z:\101315b\1013B_40.D					
0	No Audit				
Scan File Path: z:\101315b\1013B_41.D					
Original Path: z:\101315b\1013B_41.D					
0	No Audit				
Scan File Path: z:\101315b\1013B_42.D					
Original Path: C:\msdchem\1\data\101315b\1013B_42.D\data.ms					
3	Scanned	QM(1), M(1)	591	VOCMS18	SSCV GROMS 5.0 ppm 15J13588 (water IS/SUF

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
ENR	=	Quant report set to not reviewed (Disables MZ code)	M	=	Manual integration (non-specific)
MZ	=	Manual integrated but indicator missing from either the quant report or audit file	QM	=	Processed >3 times using the same method

ScanSummary.rpt

Total Files Scanned	46	Beginning Analyzed Date	10/13/2015 6:08:00PM
Methods	0	Ending Analyzed Date	10/14/2015 10:31:00AM
Samples	44	Analyzed Range	16 hours, 23 minutes
Tunes	2	Greatest Time Between Tunes	10 hours, 7 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 : VOCMS18
Computer Name : VOCCOMPAF

Released By : Amy Green
Date Released : 10/14/2015 11:11:45 AM

Run ID : 101315b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1013B_01	INSTBLK	V818J13O						1	1	10/13/15 1808	"water IS/SURR15D18333"
2	1013B_01	INSTBLK	V818J13O							1	10/13/15 1808	
3	1013B_04	STD VMS .5 PPB 15J05152	V818J13O						1	1	10/13/15 1908	"water IS/SURR15D18333"
4	1013B_05	STD VMS 1 PPB 15J05152	V818J13O						1	1	10/13/15 1928	"water IS/SURR15D18333"
5	1013B_05 A	RL VMS 1 PPB 15J05152	V818J13O						1	1	10/13/15 1928	"water IS/SURR15D18333"
6	1013B_06	STD VMS 2 PPB 15J05152	V818J13O						1	1	10/13/15 1948	"water IS/SURR15D18333"
7	1013B_06 A	RL VMS 2 PPB 15J05152	V818J13O						1	1	10/13/15 1948	"water IS/SURR15D18333"
8	1013B_07	STD VMS 5 PPB 15J05152	V818J13O						1	1	10/13/15 2009	"water IS/SURR15D18333"
9	1013B_07 A	RL VMS 5 PPB 15J05152	V818J13O						1	1	10/13/15 2009	"water IS/SURR15D18333"
10	1013B_08	STD VMS 10 PPB 15J05152	V818J13O						1	1	10/13/15 2029	"water IS/SURR15D18333"
11	1013B_09	MSTD VMS 25 PPB 15J05152	V818J13O						1	1	10/13/15 2049	"water IS/SURR15D18333"
12	1013B_10	STD VMS 40 PPB 15J05152	V818J13O						1	1	10/13/15 2109	"water IS/SURR15D18333"
13	1013B_11	STD VMS 75 PPB 15J05152	V818J13O						1	1	10/13/15 2130	"water IS/SURR15D18333"
14	1013B_12	STD VMS 100 PPB 15J05152	V818J13O						1	1	10/13/15 2150	"water IS/SURR15D18333"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Amy Green
Date Released : 10/14/2015 11:11:45 AM
Run ID : 101315b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1013B_13	STD VMS 200 PPB 15J05152	V818J13O						1	1	10/13/15 2211	"water IS/SURR15D18333"
16	1013B_15	SSCV VMS 25 PPB 15J11487	V818J13O						1	1	10/13/15 2251	"water IS/SURR15D18333"
17	1013B_18	STD VMS 1A PPB 15H20824	V818J13O						1	1	10/14/15 0030	"water IS/SURR15D18333"
18	1013B_18 A	RL VMS 1A PPB 15H20824	V818J13O						1	1	10/14/15 0030	"water IS/SURR15D18333"
19	1013B_19	STD VMS 2.5A PPB 15H20824	V818J13O						1	1	10/14/15 0051	"water IS/SURR15D18333"
20	1013B_20	STD VMS 5A PPB 15H20824	V818J13O						1	1	10/14/15 0111	"water IS/SURR15D18333"
21	1013B_21	STD VMS 7.5A PPB 15H20824	V818J13O						1	1	10/14/15 0131	"water IS/SURR15D18333"
22	1013B_22	MSTD VMS 10A PPB 15H20824	V818J13O						1	1	10/14/15 0152	"water IS/SURR15D18333"
23	1013B_23	STD VMS 12.5A PPB 15H20824	V818J13O						1	1	10/14/15 0212	"water IS/SURR15D18333"
24	1013B_24	STD VMS 15A PPB 15H20824	V818J13O						1	1	10/14/15 0233	"water IS/SURR15D18333"
25	1013B_25	STD VMS 17.5A PPB 15H20824	V818J13O						1	1	10/14/15 0253	"water IS/SURR15D18333"
26	1013B_26	STD VMS 20A PPB 15H20824	V818J13O						1	1	10/14/15 0314	"water IS/SURR15D18333"
27	1013B_28	SSCV VMS 10A PPB 15H19752	V818J13O						1	1	10/14/15 0355	"water IS/SURR15D18333"
28	1013B_29	INSTBLK	V818J13O						1	1	10/14/15 0415	"water IS/SURR15D18333"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Amy Green
Date Released : 10/14/2015 11:11:45 AM

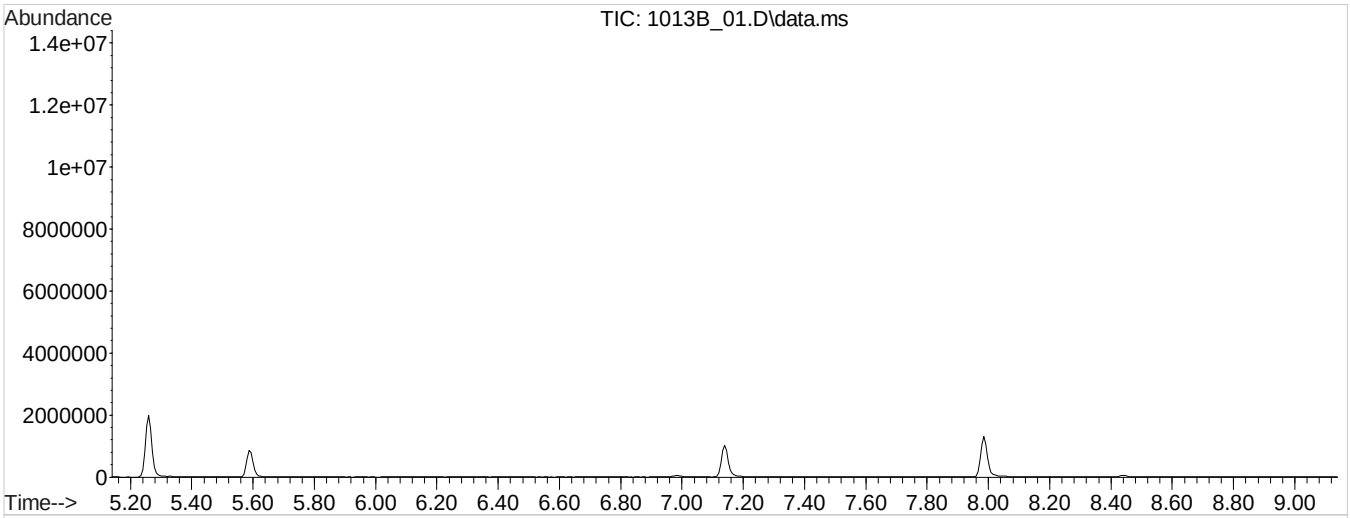
Run ID : 101315b
Signature : _____

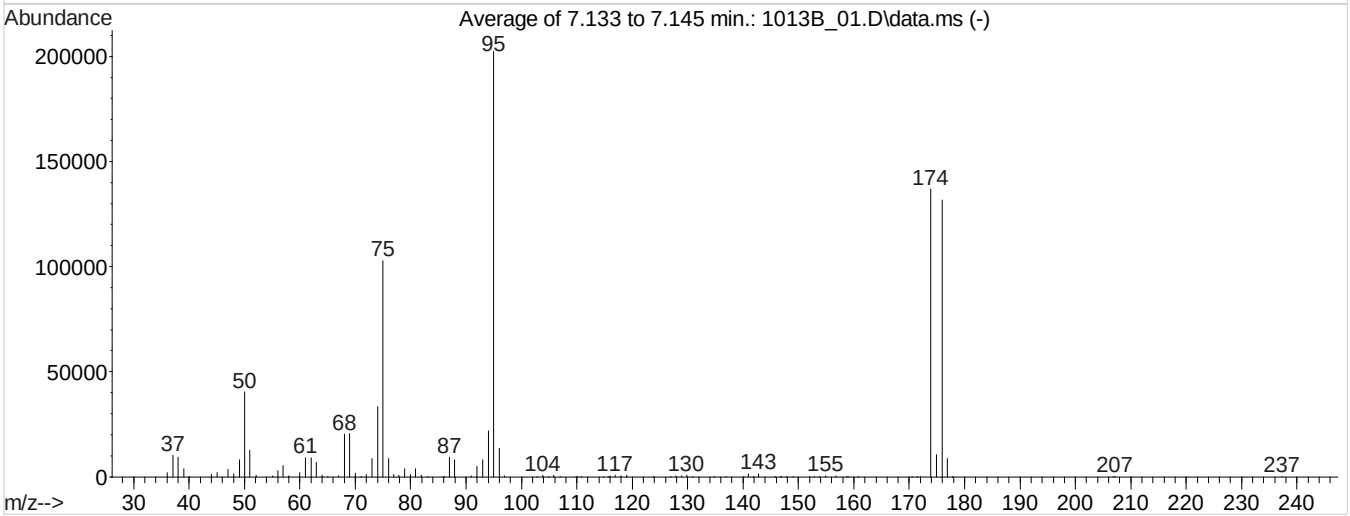
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
29	1013B_29	INSTBLK	V818J13O							1	10/14/15 0415	
30	1013B_31	STD VMS .4 PPM 15J13587	V818J13O						1	1	10/14/15 0456	"water IS/SURR15D18333"
31	1013B_32	STD VMS 1 PPM 15J13587	V818J13O						1	1	10/14/15 0516	"water IS/SURR15D18333"
32	1013B_33	STD VMS 2 PPM 15J13587	V818J13O						1	1	10/14/15 0536	"water IS/SURR15D18333"
33	1013B_34	STD VMS 4 PPM 15J13587	V818J13O						1	1	10/14/15 0557	"water IS/SURR15D18333"
34	1013B_35	MSTD VMS 5 PPM 15J13587	V818J13O						1	1	10/14/15 0617	"water IS/SURR15D18333"
35	1013B_36	STD VMS 7 PPM 15J13587	V818J13O						1	1	10/14/15 0637	"water IS/SURR15D18333"
36	1013B_37	STD VMS 10 PPM 15J13587	V818J13O						1	1	10/14/15 0657	"water IS/SURR15D18333"
37	1013B_38	STD VMS 20 PPM 15J13587	V818J13O						1	1	10/14/15 0718	"water IS/SURR15D18333"
38	1013B_39	DNRSSCV GROMS 5.0 PPM 15J13588	V818J13O						1	1	10/14/15 0738	"water IS/SURR15D18333"
39	1013B_42	SSCV GROMS 5.0 PPM 15J13588	V818J13O						1	1	10/14/15 1031	"water IS/SURR15D18333"

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818J13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





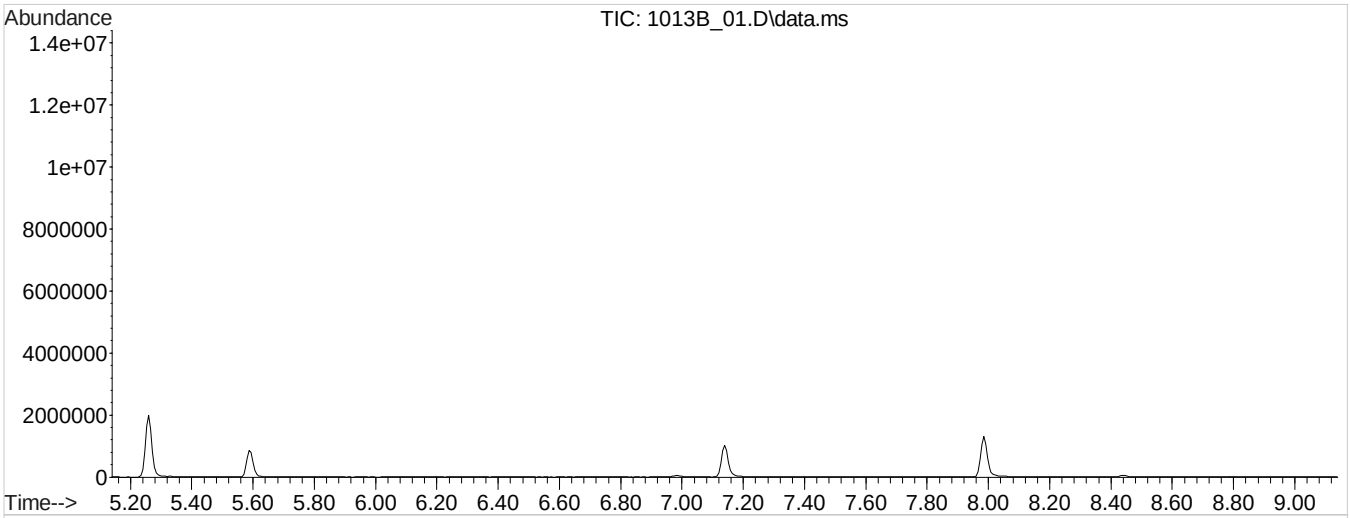
AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1152

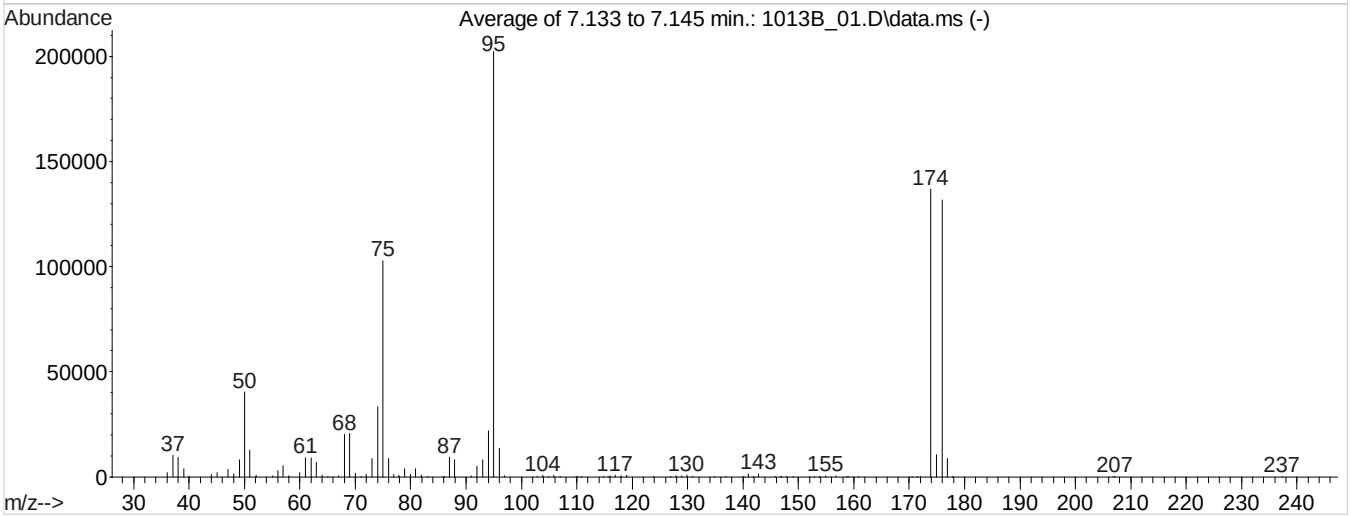
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	40328	PASS
75	95	30	60	50.8	102923	PASS
95	95	100	100	100.0	202411	PASS
96	95	5	9	6.6	13434	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	67.6	136800	PASS
175	174	5	9	7.7	10570	PASS
176	174	95	101	96.2	131605	PASS
177	176	5	9	6.5	8601	PASS

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818J13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





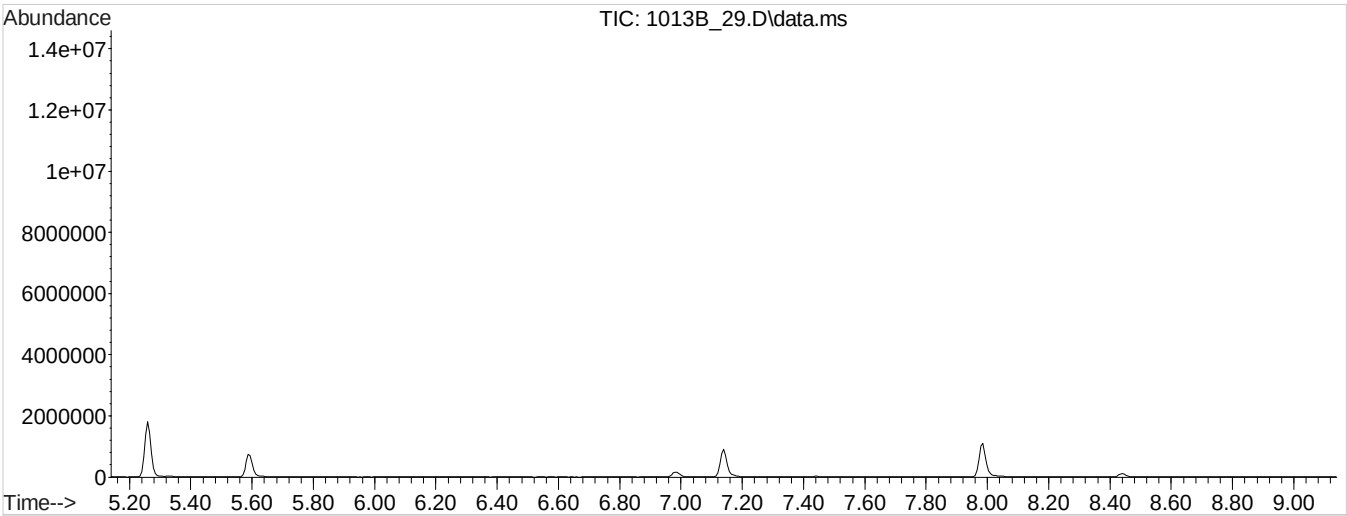
AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1152

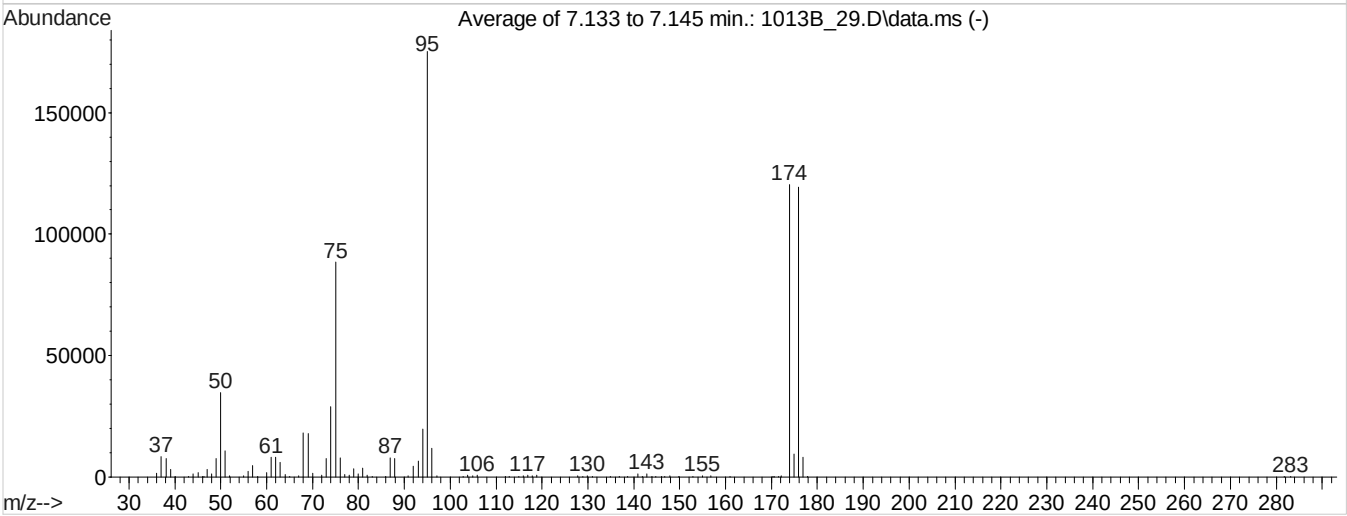
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	40328	PASS
75	95	30	60	50.8	102923	PASS
95	95	100	100	100.0	202411	PASS
96	95	5	9	6.6	13434	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	67.6	136800	PASS
175	174	5	9	7.7	10570	PASS
176	174	95	101	96.2	131605	PASS
177	176	5	9	6.5	8601	PASS

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 29.D
Acq On : 14 Oct 2015 4:15 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 29 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818J13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





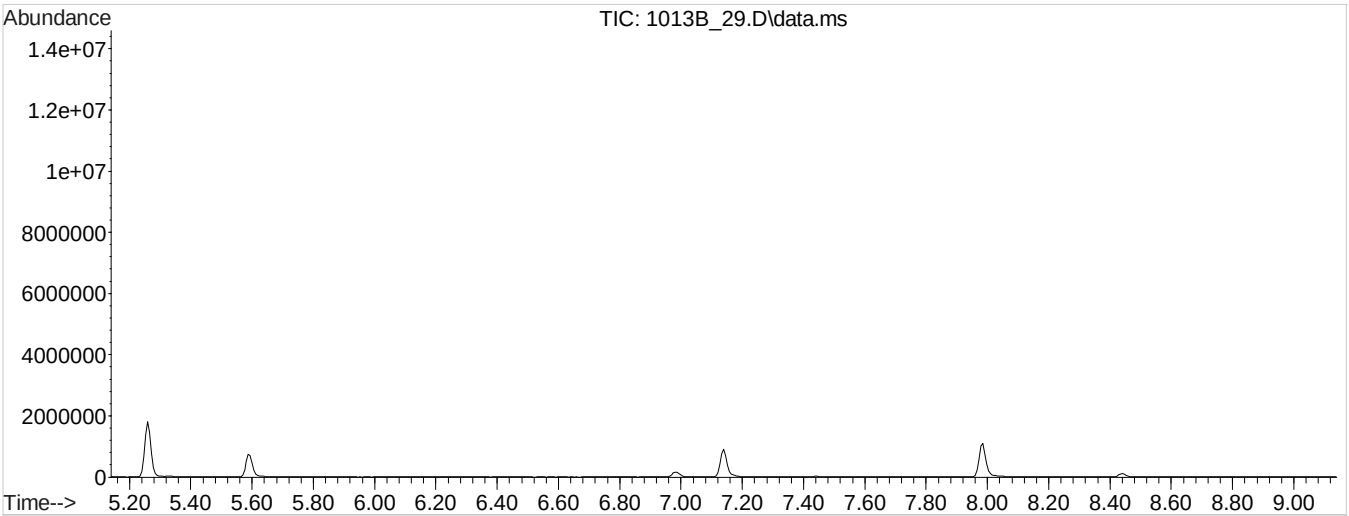
AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1152

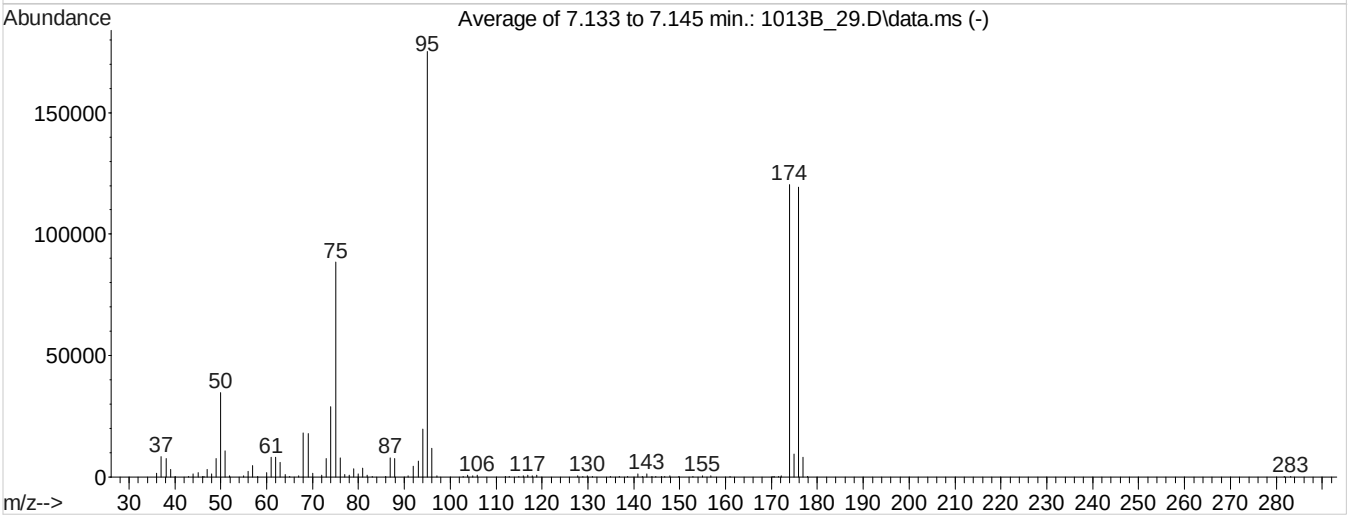
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	34589	PASS
75	95	30	60	50.5	88525	PASS
95	95	100	100	100.0	175317	PASS
96	95	5	9	6.6	11639	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	68.7	120440	PASS
175	174	5	9	7.8	9337	PASS
176	174	95	101	99.2	119435	PASS
177	176	5	9	6.7	7978	PASS

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 29.D
Acq On : 14 Oct 2015 4:15 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 29 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818J13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	34589	PASS
75	95	30	60	50.5	88525	PASS
95	95	100	100	100.0	175317	PASS
96	95	5	9	6.6	11639	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	68.7	120440	PASS
175	174	5	9	7.8	9337	PASS
176	174	95	101	99.2	119435	PASS
177	176	5	9	6.7	7978	PASS

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SM 20th	Released On	: 10/14/2015 11:11:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:06:53 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:07:55 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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INITIAL CALIBRATION SUMMARY

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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:07:55 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:07:55 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:07:55 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: EPA	Released On	: 10/14/2015 11:07:55 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SC	Released On	: 10/14/2015 11:08:49 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SC	Released On	: 10/14/2015 11:08:49 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
sec-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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Method	: V818J13O	Review Protocol	: SC	Released On	: 10/14/2015 11:08:49 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:09:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:09:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:09:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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INITIAL CALIBRATION SUMMARY

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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
sec-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:09:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:09:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	2247	2690	3165	3082	3122	3173	3085	3140													2962.962	11.11	1	0	
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1	
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1	0.1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1	0.1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1	0.1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1	
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1	0.1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1	0.1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1	0.1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1	
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1	
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1	
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1	0.1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1	0.1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1	
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1	0.1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1	0.1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1	
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1	
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1	0.1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1	0.2
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1	
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1	
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1	
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1	0.1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1	0.1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1	
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1	
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1	0.2
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1	
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1	0.1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1	0.1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1	
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1	
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1	
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1	0.5
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1	0.2
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1	0.1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1	

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INITIAL CALIBRATION SUMMARY

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Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

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BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1	0.2
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1	
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1	
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1	0.2
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1	0.1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1	
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1	0.1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1	0.2
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1	
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0	0.1
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1	0.1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1	0.1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1	
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1	0.1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1	0.1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1	0.3
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1	0.3
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1	0.1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1	0.1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1	
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1	
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1	0.3
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0	
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1	
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1	
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1	
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1	
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1	
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1	
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1	
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1	
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1	0.6
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1	
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1	
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1	
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1	0.4
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1	

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0	0.05
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1	
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1	
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1	
1-Methylnaphthalene																					0	0	0	1	
2-Methylnaphthalene																					0	0	0	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1	
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1	
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1	
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1	0.1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1	
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1	
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1	
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1	
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1	
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1	
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1	
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1	
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1	0.1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1	
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1	

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818J13O	Review Protocol	: SW846	Released On	: 10/14/2015 11:10:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818J13O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1	
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1	
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1	0.1
-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1	
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1	
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1	
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1	
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1	
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1	
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1	
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1	
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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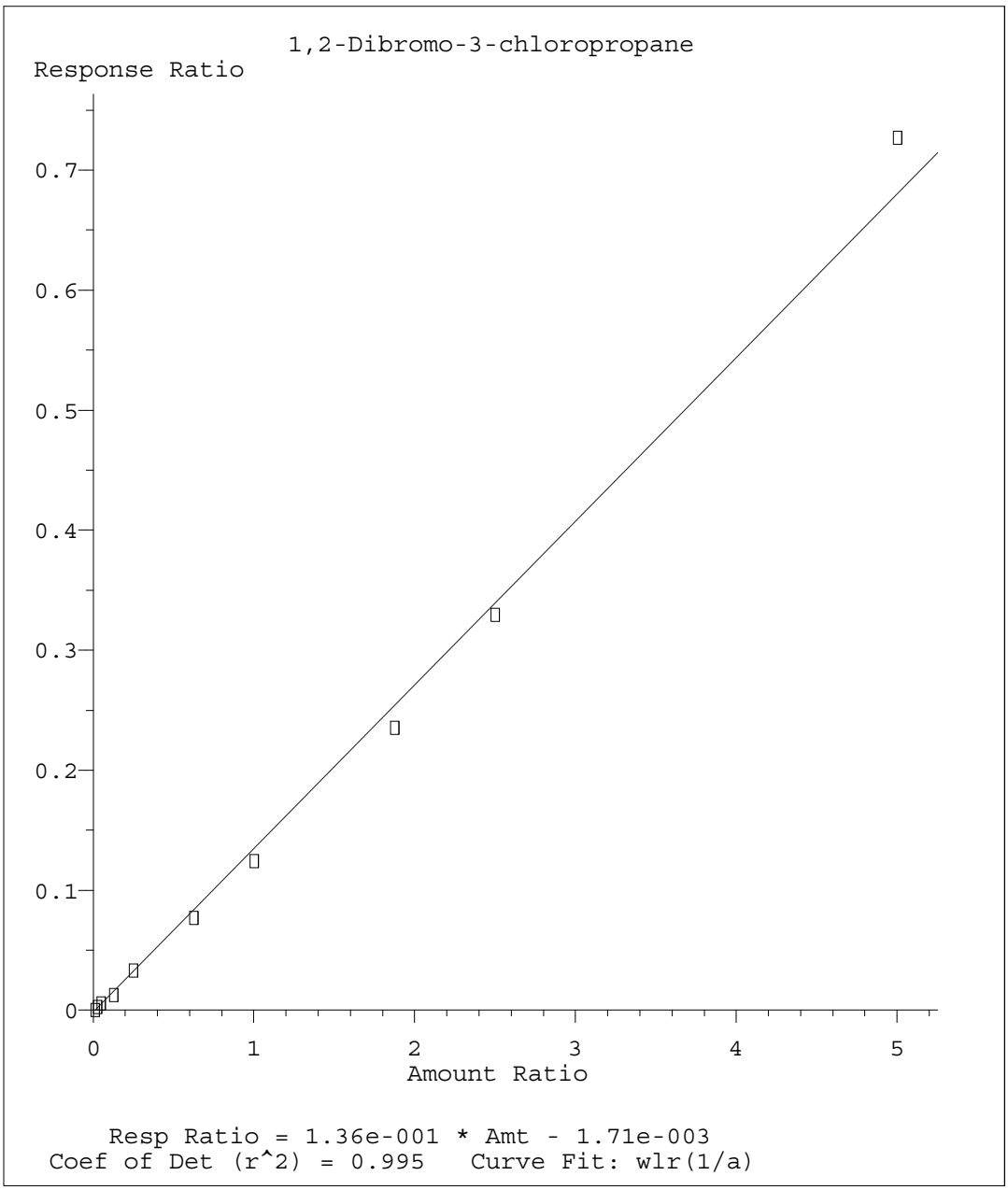
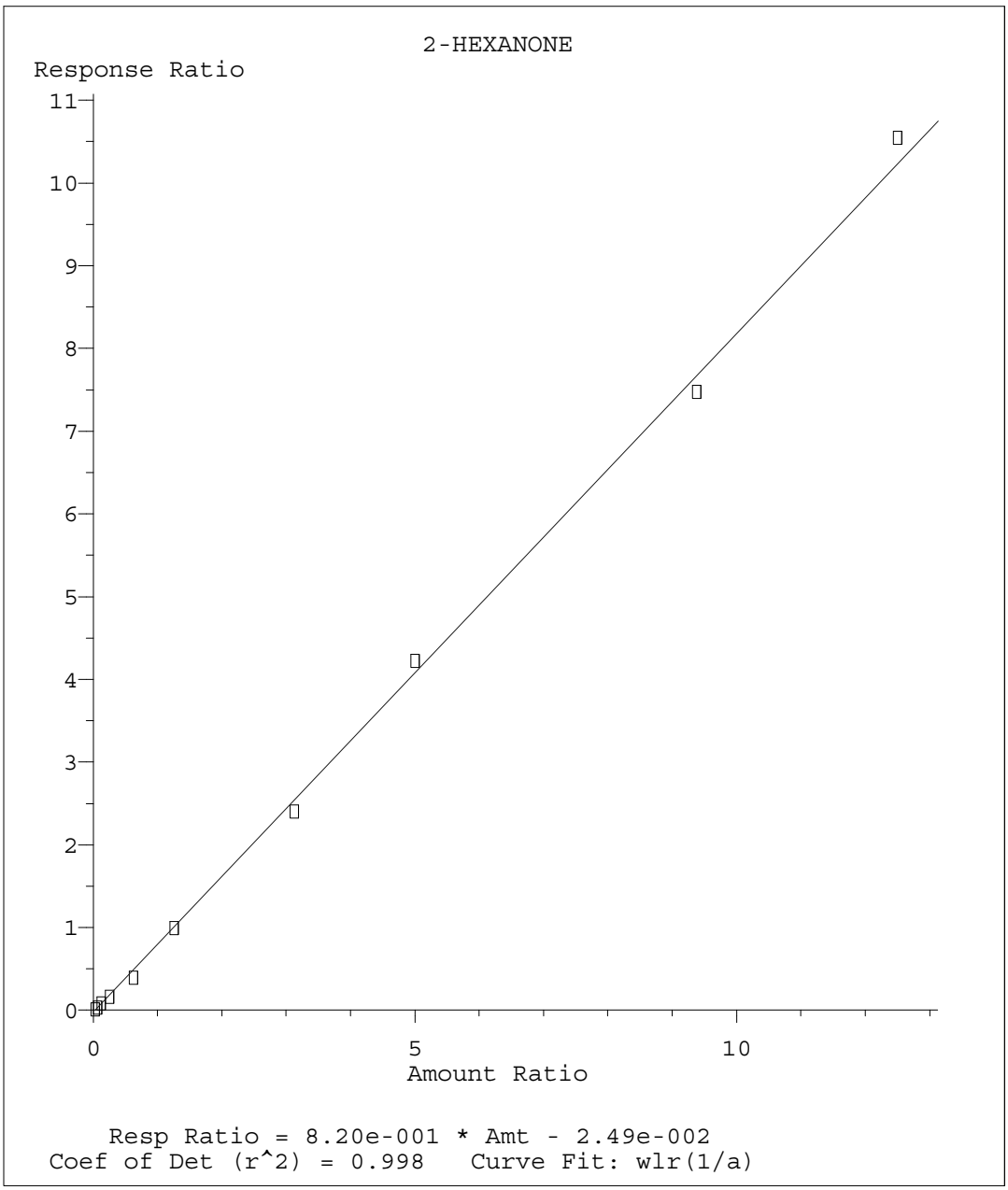
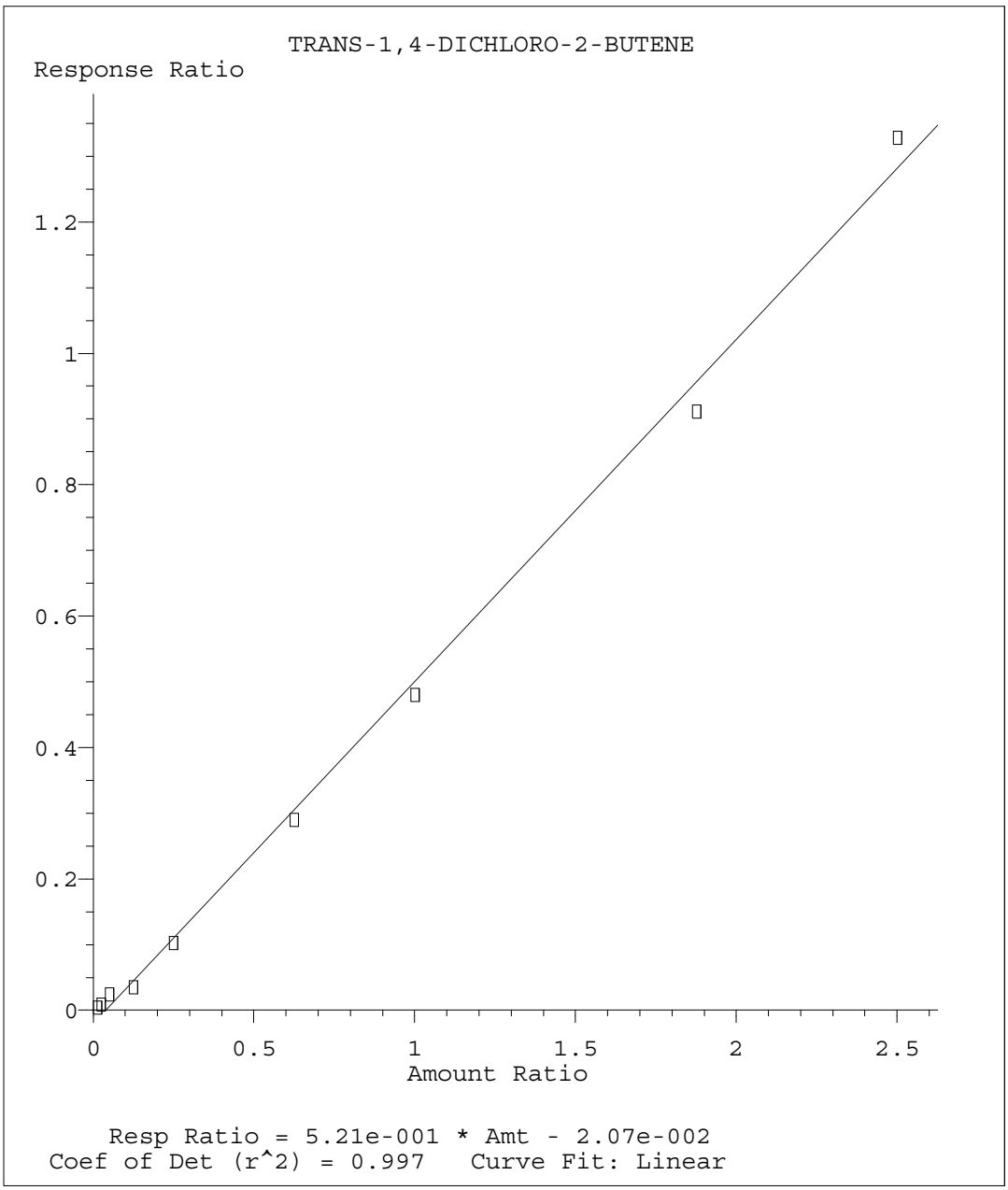


Method Name: C:\msdchem\1\methods\V818J13O.M



Method Name: C:\msdchem\1\methods\V818J13O.M



Method Name: C:\msdchem\1\methods\V818J13O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:02:32 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

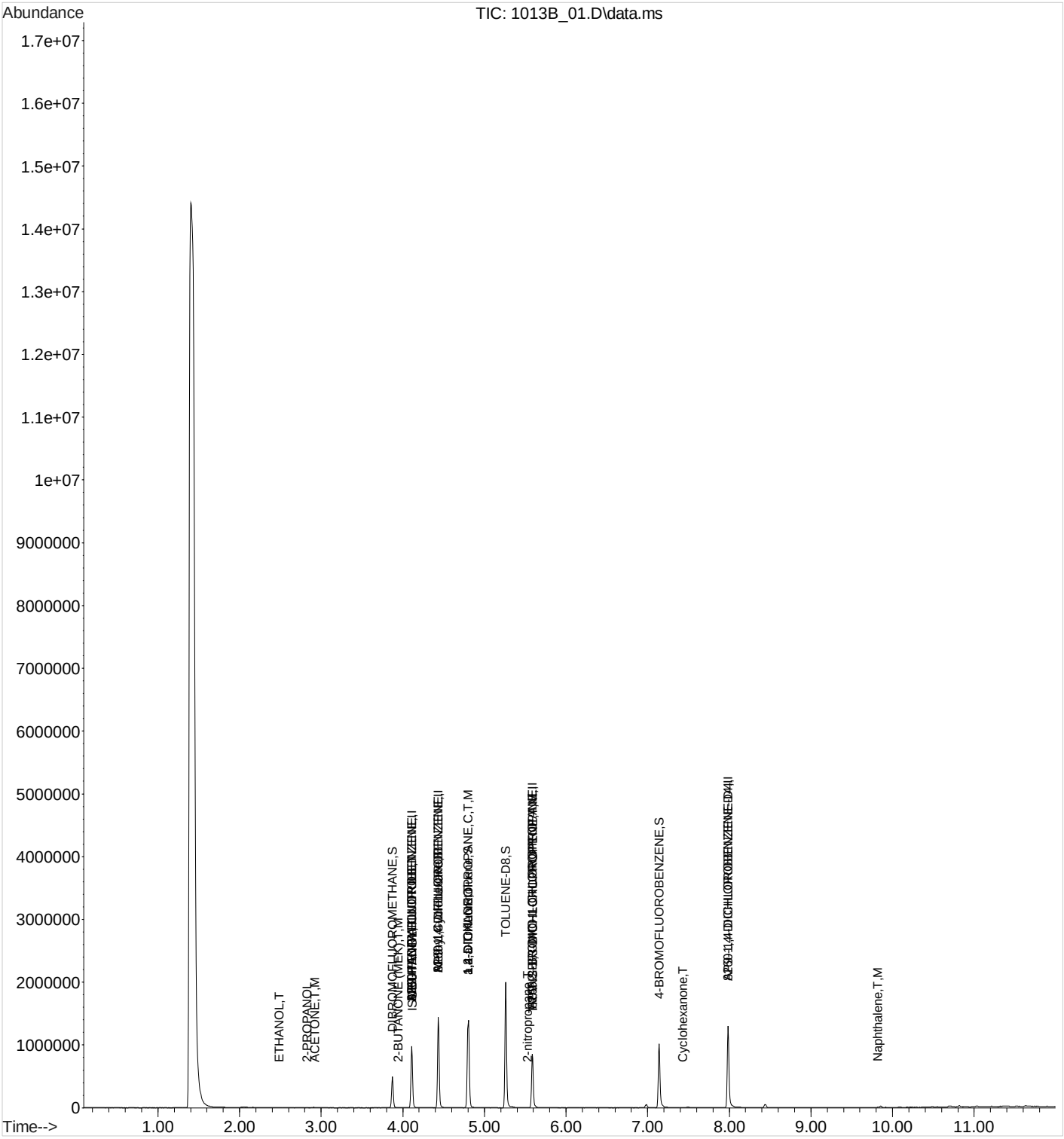
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	477970	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	841139	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	140038	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	312914	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	477970	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	841139	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	140038	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	312914	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	230860	38.1257372	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.31%			
46) a,a,a-Trifluorotoluene	4.803	146	441263	40.7826513	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.96%			
50) TOLUENE-D8	5.259	98	1071288	40.6404329	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.60%			
68) 4-BROMOFLUOROBENZENE	7.139	95	357984	40.1625623	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.41%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4841867m		Below Cal		
16) ACETONE	2.923	43	8478	2.2979914	ppb	95
29) 2-BUTANONE (MEK)	3.945	43	1885	0.4854025	ppb #	48
43) 1,2-DICHLOROPROPANE	4.803	62	8993	1.4556006	ppb #	1
52) TRANS-1,3-DICHLOROPROPENE	5.594	75	7024	0.6825776	ppb #	1
92) Naphthalene	9.816	128	5280	0.3144998	ppb #	72
97) ETHANOL	2.485	45	594	6.9061545	ppb #	1
99) 2-PROPANOL	2.826	45	527	1.2143195	ppb #	54
108) METHACRYLONITRILE	4.109	67	1848	0.6501411	ppb #	1
111) ISOBUTANOL	4.115	43	860	1.9059718	ppb #	1
116) Methyl Cyclohexane	4.432	83	10281	0.4421097	ppb #	38
117) 2-nitropropane	5.527	43	599	0.3384097	ppb #	17
119) 1,4-DIOXANE	4.803	88	5325	81.7792048	ppb #	45
125) Cyclohexanone	7.431	55	764	0.5943580	ppb #	23

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:02:32 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:02:32 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

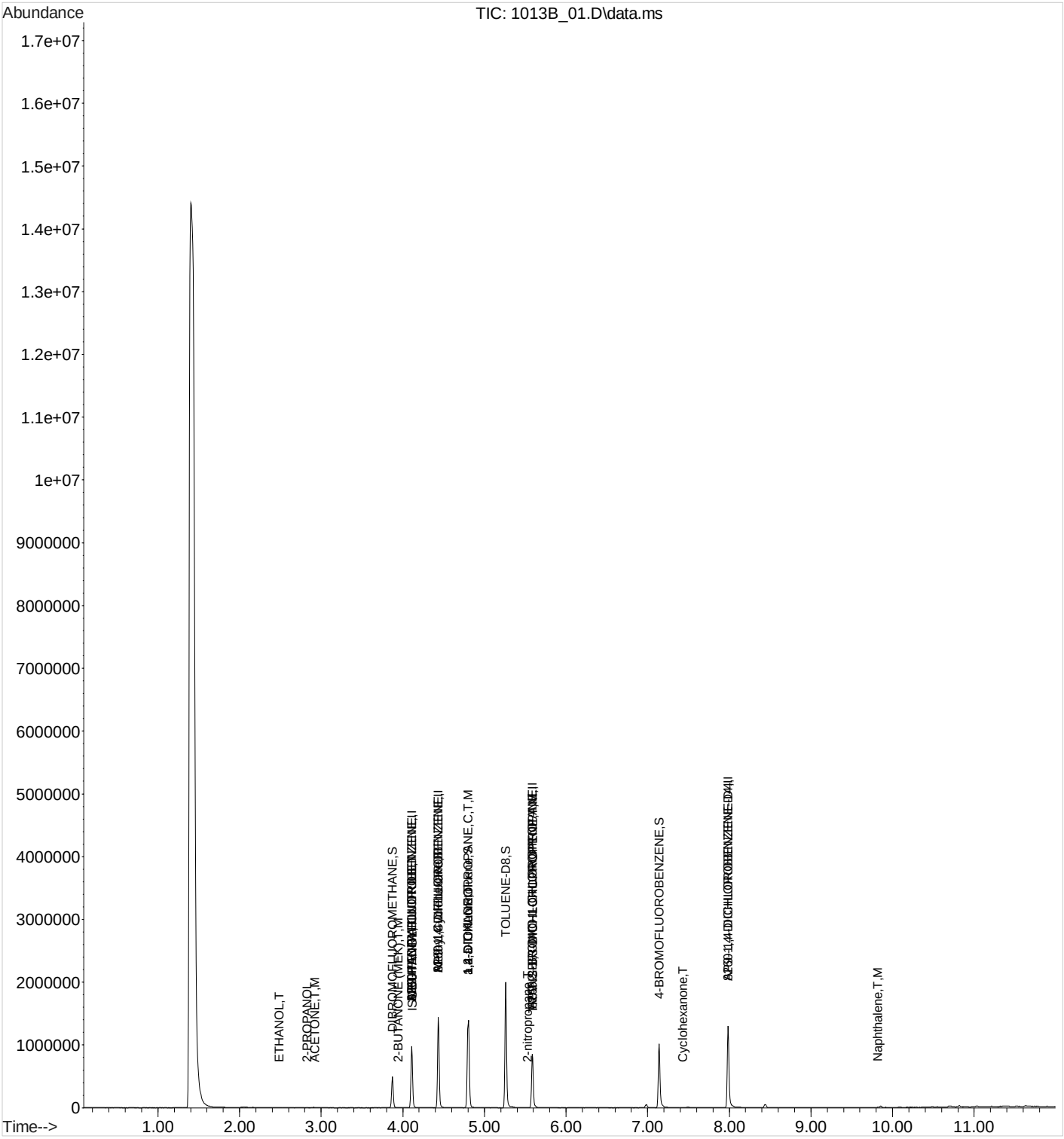
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	477970	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	841139	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	140038	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	312914	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	477970	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	841139	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	140038	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	312914	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	230860	38.1257372	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.31%			
46) a,a,a-Trifluorotoluene	4.803	146	441263	40.7826513	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.96%			
50) TOLUENE-D8	5.259	98	1071288	40.6404329	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.60%			
68) 4-BROMOFLUOROBENZENE	7.139	95	357984	40.1625623	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.41%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4841867m		Below Cal		
16) ACETONE	2.923	43	8478	2.2979914	ppb	95
29) 2-BUTANONE (MEK)	3.945	43	1885	0.4854025	ppb #	48
43) 1,2-DICHLOROPROPANE	4.803	62	8993	1.4556006	ppb #	1
52) TRANS-1,3-DICHLOROPROPENE	5.594	75	7024	0.6825776	ppb #	1
92) Naphthalene	9.816	128	5280	0.3144998	ppb #	72
97) ETHANOL	2.485	45	594	6.9061545	ppb #	1
99) 2-PROPANOL	2.826	45	527	1.2143195	ppb #	54
108) METHACRYLONITRILE	4.109	67	1848	0.6501411	ppb #	1
111) ISOBUTANOL	4.115	43	860	1.9059718	ppb #	1
116) Methyl Cyclohexane	4.432	83	10281	0.4421097	ppb #	38
117) 2-nitropropane	5.527	43	599	0.3384097	ppb #	17
119) 1,4-DIOXANE	4.803	88	5325	81.7792048	ppb #	45
125) Cyclohexanone	7.431	55	764	0.5943580	ppb #	23

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 01.D
Acq On : 13 Oct 2015 6:08 pm
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:02:32 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05A.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:19 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	438952	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	776187	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.594	79	131367	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	290598	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.110	168	438952	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	776187	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.594	79	131367	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	290598	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	225637	40.5754628 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.44%		
46) a,a,a-Trifluorotoluene	4.803	146	419853	42.0510271 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.13%		
50) TOLUENE-D8	5.259	98	1015678	41.7551008 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.39%		
68) 4-BROMOFLUOROBENZENE	7.139	95	346878	41.4852938 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.71%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4152817m		Below Cal	
3) PROPENE	1.542	41	2861	1.1803194 ppb #	71
4) DICHLORODIFLUOROMETHANE	1.591	85	5957	1.1319749 ppb	90
5) CHLOROMETHANE	1.731	50	10080	1.0517796 ppb	96
6) VINYL CHLORIDE	1.810	62	10192	1.0520728 ppb	92
7) 1,3-BUTADIENE	1.816	39	8408	0.9955353 ppb	95
8) BROMOMETHANE	2.053	94	5701	1.0101722 ppb	96
9) CHLOROETHANE	2.138	64	7436	1.1487135 ppb #	89
10) TRICHLOROFLUOROMETHANE	2.224	101	9730	1.0357794 ppb	98
11) DICHLOROFLUOROMETHANE	2.260	67	14213	1.0351746 ppb	95
12) ETHYL ETHER	2.412	59	6458	1.0648297 ppb	95
13) ACROLEIN	2.753	56	3591	3.8740725 ppb	89
14) 1,1-DICHLOROETHENE	2.546	61	12176	1.0453362 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	6544	0.9972119 ppb	96
16) ACETONE	2.917	43	20199	5.9616773 ppb	95
17) IODOMETHANE	2.643	142	50181	5.1919968 ppb	100
18) CARBON DISULFIDE	2.583	76	26352	1.0455860 ppb #	86
19) METHYLENE CHLORIDE	2.893	84	7921	1.0823457 ppb	98
20) ACRYLONITRILE	3.373	53	8263	4.1724363 ppb	87
21) n-Hexane	3.021	56	9398	1.1112626 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.984	96	7150	1.0180696 ppb	91
23) METHYL TERT-BUTYL ETHER	3.039	73	17309	0.9983119 ppb	94
24) 1,1-DICHLOROETHANE	3.331	63	14307	0.9978780 ppb	97
25) VINYL ACETATE	3.453	43	61594	5.0516777 ppb	99
26) DI-ISOPROPYL ETHER	3.240	45	27449	0.9870909 ppb	95
27) 2,2-Dichloropropane	3.696	77	8880	1.0248389 ppb	95
28) CIS-1,2-DICHLOROETHENE	3.629	96	7544	1.0167383 ppb	94
29) 2-BUTANONE (MEK)	3.945	43	16792	4.7084364 ppb	92
30) BROMOCHLOROMETHANE	3.745	130	3502	0.9838783 ppb	95
31) TETRAHYDROFURAN	3.878	42	2154	1.1328838 ppb	93
32) CHLOROFORM	3.769	83	12142	1.0209861 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.903	97	9426	1.0112773 ppb	97
35) CARBON TETRACHLORIDE	3.866	117	8676	1.1112243 ppb	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05A.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:19 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	10732	1.0633886 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	37681	1.0290771 ppb		100
38) HEPTANE	4.055	43	17185	0.9871985 ppb	#	100
39) BENZENE	4.110	78	33287	1.0569388 ppb	#	78
40) 1,2-DICHLOROETHANE	4.219	62	8878	1.0553040 ppb	#	92
42) TRICHLOROETHENE	4.432	130	6736	1.0389972 ppb		96
43) 1,2-DICHLOROPROPANE	4.742	62	5806	1.0183946 ppb		93
44) DIBROMOMETHANE	4.688	93	3435	1.0332911 ppb		96
45) BROMODICHLOROMETHANE	4.767	83	8602	0.9702483 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.089	63	13114	4.8856774 ppb	#	98
48) CIS-1,3-DICHLOROPROPENE	5.144	75	10655	0.9537787 ppb	#	93
49) 4-METHYL-2-PENTANONE (...	5.521	43	27903	4.6550199 ppb		93
51) TOLUENE	5.296	91	34793	1.0600508 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	8338	0.8780735 ppb	#	70
54) 1,1,2-TRICHLOROETHANE	5.655	97	5449	1.0936180 ppb		97
55) TETRACHLOROETHENE	5.545	164	4809	0.9906742 ppb		97
56) 1,3-Dichloropropane	5.843	76	10018	1.0096540 ppb		98
57) 2-HEXANONE	6.075	58	10635	5.1602529 ppb		83
58) CHLORODIBROMOMETHANE	5.783	129	4889	0.9993437 ppb		96
59) 1,2-DIBROMOETHANE	5.959	107	4531	0.9773336 ppb		99
60) CHLOROBENZENE	6.300	112	16444	0.9421577 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	5341	1.0429236 ppb	#	92
62) ETHYLBENZENE	6.300	106	9777	0.9795491 ppb		99
63) M&P-XYLENE	6.391	106	25559	2.0427117 ppb		95
64) O-XYLENE	6.707	106	11458	0.9860047 ppb		99
65) STYRENE	6.750	104	14578	0.8085402 ppb	#	85
66) Bromoform	6.780	173	2305	0.8393718 ppb		96
67) Isopropylbenzene	6.920	105	31288	1.0066468 ppb		99
69) Bromobenzene	7.224	77	14776	1.0010783 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.273	83	6540	1.0268518 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.389	110	1591	0.9660275 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.419	53	1117	2.2443054 ppb	#	65
73) n-Propylbenzene	7.224	91	39259	0.9978771 ppb		99
74) 4-ETHYLTOLUENE	7.303	105	28865	0.9590368 ppb		100
75) 2-Chlorotoluene	7.358	126	6676	0.9834320 ppb		86
76) 4-Chlorotoluene	7.480	91	22333	1.0087941 ppb		98
77) 1,3,5-Trimethylbenzene	7.364	105	25830	0.9892748 ppb		97
78) tert-Butylbenzene	7.608	119	20227	0.9963064 ppb		96
79) 1,2,4-Trimethylbenzene	7.662	105	24586	0.9906476 ppb		97
80) sec-Butylbenzene	7.741	105	34675	1.0351161 ppb		99
81) 1,3-DICHLOROBENZENE	7.930	146	11418	0.9549823 ppb		98
82) p-Isopropyltoluene	7.845	119	25024	0.9643500 ppb		98
83) DICYCLOPENTADIENE	7.845	66	36731	1.0081780 ppb		99
85) 1,4-DICHLOROBENZENE	7.997	146	12545	1.0178371 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	25043	0.9936375 ppb		97
87) 1,2-DICHLOROBENZENE	8.338	146	11195	1.0143664 ppb		94
88) n-Butylbenzene	8.192	91	23642	0.9638443 ppb		93
90) 1,2,4-Trichlorobenzene	9.548	180	6320	0.9720150 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	4408	1.1401728 ppb		97
92) Naphthalene	9.822	128	14643	0.9391800 ppb	#	87
93) 1,2,3-Trichlorobenzene	9.968	180	6648	1.0339255 ppb		97
100) Methyl Acetate	2.917	43	11970	2.5433387 ppb	#	56
101) ACETONITRILE	3.234	41	5275	7.1209338 ppb	#	42
104) chloroprene	3.373	53	8263	0.6341038 ppb	#	26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05A.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:19 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

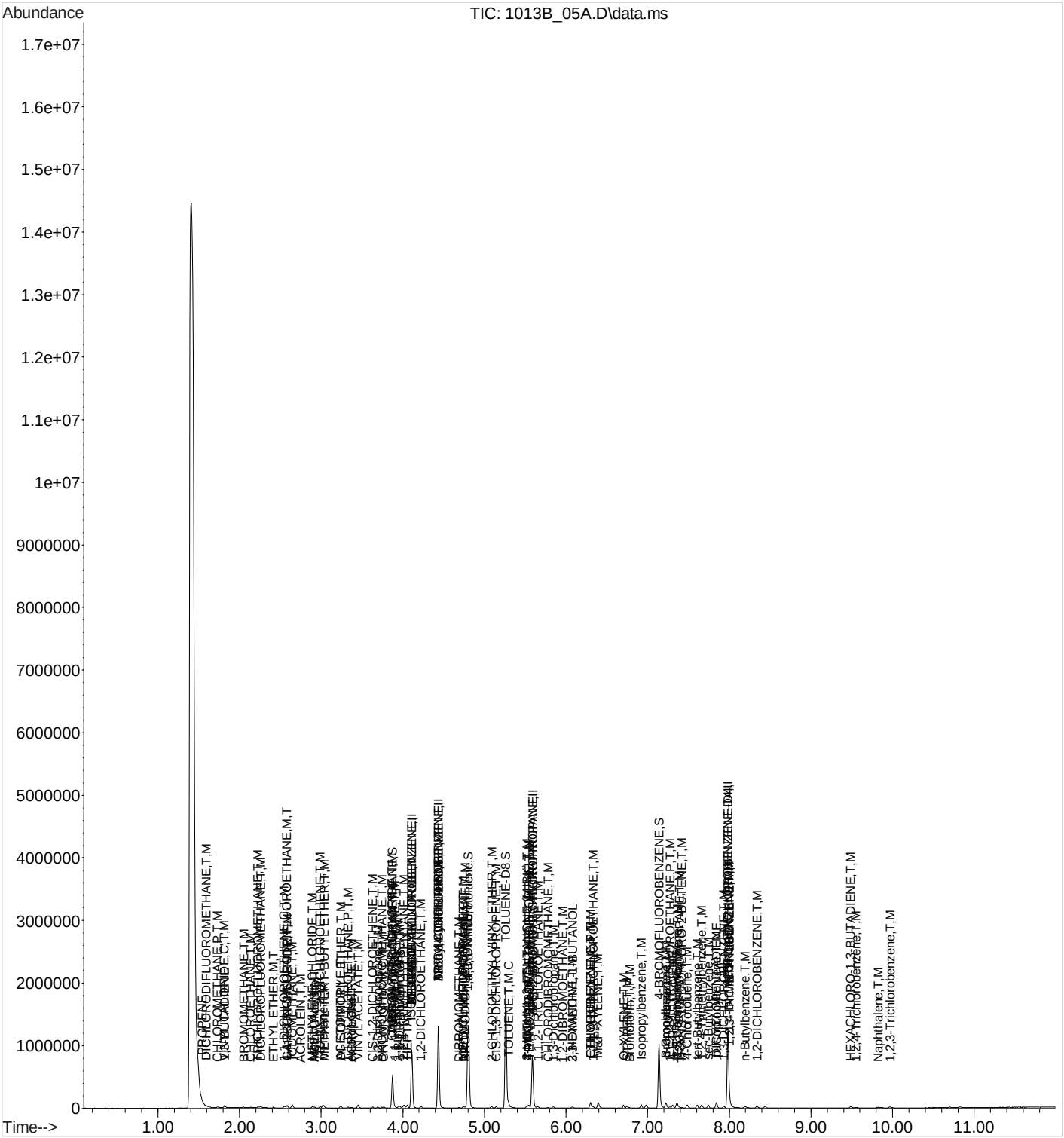
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) METHACRYLONITRILE	4.110	67	1458	0.5585304 ppb #	1
111) ISOBUTANOL	4.103	43	622	1.5010391 ppb #	1
116) Methyl Cyclohexane	4.432	83	9307	0.4337163 ppb #	39
117) 2-nitropropane	5.521	43	27903	17.0831623 ppb #	35
118) METHYL METHACRYLATE	4.742	41	4737	0.7333945 ppb #	17
119) 1,4-DIOXANE	4.797	88	4911	81.7324675 ppb #	43
121) 3,3-DIMETHYL-1-BUTANOL	6.081	57	2896	4.6426969 ppb #	41

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05A.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:19 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On    : 13 Oct 2015   7:28 pm
Operator  : 591
Sample    : STD VMS 1 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:23 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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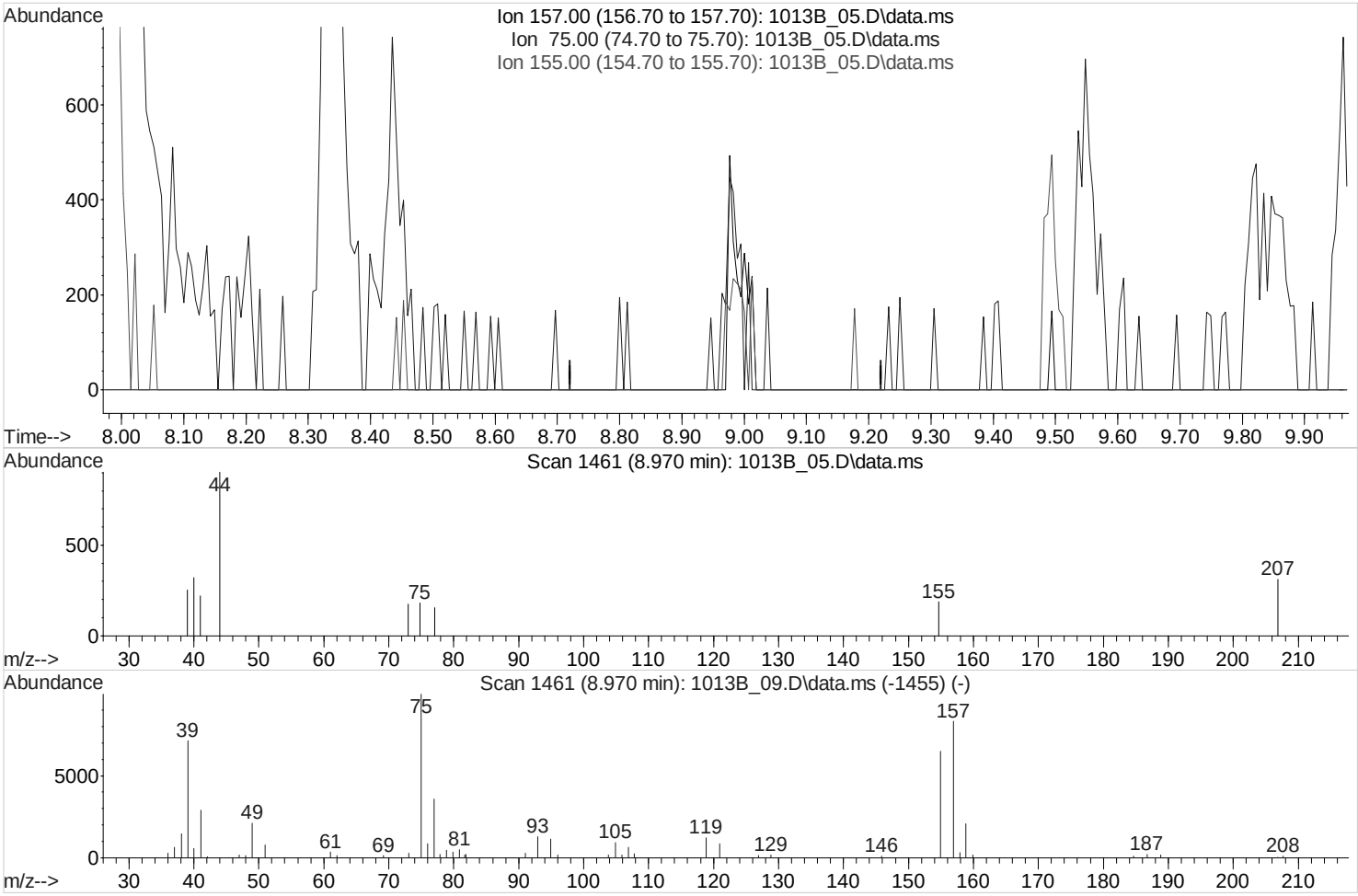


TIC: 1013B_05.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

8.970min (-8.970) 0.0000000 ppb

Qvalue = 0

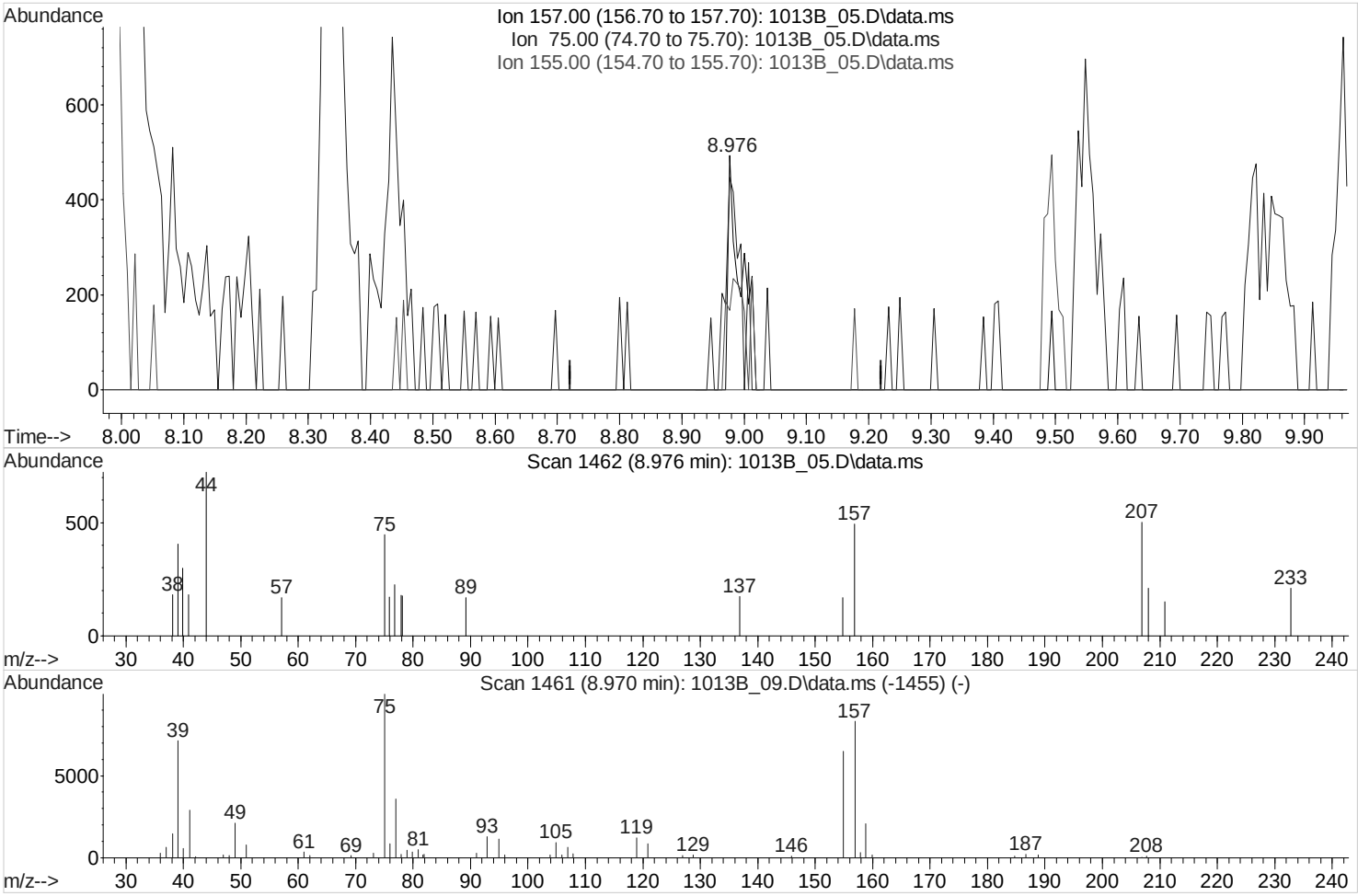
response 0

Ion	Exp%	Act%
157.00	100	0.00
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On    : 13 Oct 2015   7:28 pm
Operator  : 591
Sample    : STD VMS 1 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:23 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
```



TIC: 1013B_05.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

8.976min (+0.006) 0.7946514 ppb m

response 708

Ion	Exp%	Act%
157.00	100	100
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06A.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	462255	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.438	114	820365	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.594	79	138892	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	304327	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	462255	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.438	114	820365	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.594	79	138892	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	304327	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	246508	42.0939420 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.23%		
46) a,a,a-Trifluorotoluene	4.803	146	447318	42.3891749 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.97%		
50) TOLUENE-D8	5.259	98	1087352	42.2944021 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.74%		
68) 4-BROMOFLUOROBENZENE	7.139	95	371497	42.0224892 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.06%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -3877229m	Below Cal			
3) PROPENE	1.548	41	4667	1.8283313 ppb	#	88
4) DICHLORODIFLUOROMETHANE	1.597	85	10553	1.9042350 ppb	#	70
5) CHLOROMETHANE	1.737	50	20670	2.0480479 ppb		94
6) VINYL CHLORIDE	1.816	62	20928	2.0513961 ppb		95
7) 1,3-BUTADIENE	1.822	39	18379	2.0664326 ppb		90
8) BROMOMETHANE	2.053	94	11741	1.9755357 ppb		100
9) CHLOROETHANE	2.144	64	14058	2.0622025 ppb		95
10) TRICHLOROFLUOROMETHANE	2.223	101	19967	2.0183788 ppb		99
11) DICHLOROFLUOROMETHANE	2.266	67	28980	2.0042950 ppb		95
12) ETHYL ETHER	2.412	59	13398	2.0977682 ppb		98
13) ACROLEIN	2.753	56	10309	10.5609818 ppb		97
14) 1,1-DICHLOROETHENE	2.552	61	25378	2.0689222 ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	14381	2.0809836 ppb		99
16) ACETONE	2.917	43	40439	11.3337705 ppb		99
17) IODOMETHANE	2.649	142	99136	9.7400663 ppb		98
18) CARBON DISULFIDE	2.582	76	50993	1.9212866 ppb	#	90
19) METHYLENE CHLORIDE	2.893	84	16203	2.1024071 ppb		96
20) ACRYLONITRILE	3.367	53	19565	9.3813907 ppb		98
21) n-Hexane	3.020	56	18464	2.0732061 ppb		99
22) TRANS-1,2-DICHLOROETHENE	2.984	96	14753	1.9947441 ppb		94
23) METHYL TERT-BUTYL ETHER	3.039	73	37135	2.0338228 ppb		99
24) 1,1-DICHLOROETHANE	3.331	63	31267	2.0708589 ppb		99
25) VINYL ACETATE	3.452	43	125759	9.7942620 ppb		100
26) DI-ISOPROPYL ETHER	3.233	45	59894	2.0452639 ppb		98
27) 2,2-Dichloropropane	3.696	77	18772	2.0572571 ppb		95
28) CIS-1,2-DICHLOROETHENE	3.629	96	15427	1.9743511 ppb		99
29) 2-BUTANONE (MEK)	3.939	43	36924	9.8314696 ppb		95
30) BROMOCHLOROMETHANE	3.744	130	7273	1.9403239 ppb		87
31) TETRAHYDROFURAN	3.884	42	3770	1.8828532 ppb	#	82
32) CHLOROFORM	3.769	83	25572	2.0418777 ppb		97
34) 1,1,1-TRICHLOROETHANE	3.902	97	19294	1.9656243 ppb		97
35) CARBON TETRACHLORIDE	3.866	117	15984	1.9440304 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06A.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.963	75	22305	2.0986933 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.012	57	76517	1.9843526 ppb		99
38)	HEPTANE	4.055	43	33593	1.8324796 ppb	#	93
39)	BENZENE	4.109	78	67003	2.0202487 ppb	#	86
40)	1,2-DICHLOROETHANE	4.219	62	18151	2.0487945 ppb		97
42)	TRICHLOROETHENE	4.432	130	13744	2.0057864 ppb		97
43)	1,2-DICHLOROPROPANE	4.742	62	12295	2.0404541 ppb		98
44)	DIBROMOMETHANE	4.687	93	7038	2.0031083 ppb		96
45)	BROMODICHLOROMETHANE	4.766	83	18849	2.0115508 ppb		94
47)	2-CHLOROETHYL VINYL ETHER	5.083	63	27297	9.6219650 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.144	75	23424	1.9838757 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.515	43	63409	10.0087717 ppb		98
51)	TOLUENE	5.296	91	70942	2.0450196 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.545	75	17409	1.7346107 ppb	#	67
54)	1,1,2-TRICHLOROETHANE	5.655	97	10903	2.0696834 ppb		97
55)	TETRACHLOROETHENE	5.545	164	10670	2.0789762 ppb		98
56)	1,3-Dichloropropane	5.843	76	21555	2.0547010 ppb		96
57)	2-HEXANONE	6.068	58	21819	8.8725607 ppb		93
58)	CHLORODIBROMOMETHANE	5.782	129	9816	1.8977476 ppb		100
59)	1,2-DIBROMOETHANE	5.959	107	9172	1.8712071 ppb		90
60)	CHLOROBENZENE	6.299	112	36993	2.0046784 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.330	133	10672	1.9709917 ppb	#	98
62)	ETHYLBENZENE	6.299	106	21155	2.0046690 ppb		97
63)	M&P-XYLENE	6.391	106	51888	3.9222855 ppb		99
64)	O-XYLENE	6.701	106	24619	2.0037781 ppb		99
65)	STYRENE	6.744	104	35269	1.8501455 ppb		97
66)	Bromoform	6.774	173	5142	1.7710244 ppb		96
67)	Isopropylbenzene	6.920	105	66189	2.0141610 ppb		99
69)	Bromobenzene	7.224	77	31634	2.0270961 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.267	83	13970	2.0746053 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.382	110	3664	2.1041846 ppb		94
72)	TRANS-1,4-DICHLORO-2-B...	7.419	53	3260	3.3939754 ppb	#	84
73)	n-Propylbenzene	7.224	91	83071	1.9970839 ppb		100
74)	4-ETHYLTOLUENE	7.303	105	62167	1.9535867 ppb		99
75)	2-Chlorotoluene	7.358	126	14795	2.0613515 ppb		92
76)	4-Chlorotoluene	7.480	91	46092	1.9692010 ppb		100
77)	1,3,5-Trimethylbenzene	7.358	105	55258	2.0016896 ppb		99
78)	tert-Butylbenzene	7.607	119	43454	2.0244184 ppb		99
79)	1,2,4-Trimethylbenzene	7.662	105	52238	1.9907966 ppb		95
80)	sec-Butylbenzene	7.741	105	72136	2.0367312 ppb		100
81)	1,3-DICHLOROBENZENE	7.930	146	25367	2.0067047 ppb		99
82)	p-Isopropyltoluene	7.845	119	54216	1.9761254 ppb		97
83)	DICYCLOPENTADIENE	7.845	66	77722	2.0177042 ppb		99
85)	1,4-DICHLOROBENZENE	7.991	146	26166	2.0272022 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.003	105	56176	2.1283575 ppb		98
87)	1,2-DICHLOROBENZENE	8.337	146	24473	2.1174350 ppb		97
88)	n-Butylbenzene	8.185	91	52272	2.0349041 ppb		98
89)	1,2-Dibromo-3-chloropr...	8.982	157	1592	2.0371818 ppb		88
90)	1,2,4-Trichlorobenzene	9.536	180	13259	1.9472369 ppb		95
91)	HEXACHLORO-1,3-BUTADIENE	9.493	225	8341	2.0601523 ppb		96
92)	Naphthalene	9.810	128	31596	1.9350982 ppb		98
93)	1,2,3-Trichlorobenzene	9.962	180	13347	1.9821386 ppb		96
101)	ACETONITRILE	3.233	41	8749	11.2152334 ppb	#	40
104)	chloroprene	3.367	53	19565	1.4257320 ppb	#	26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06A.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

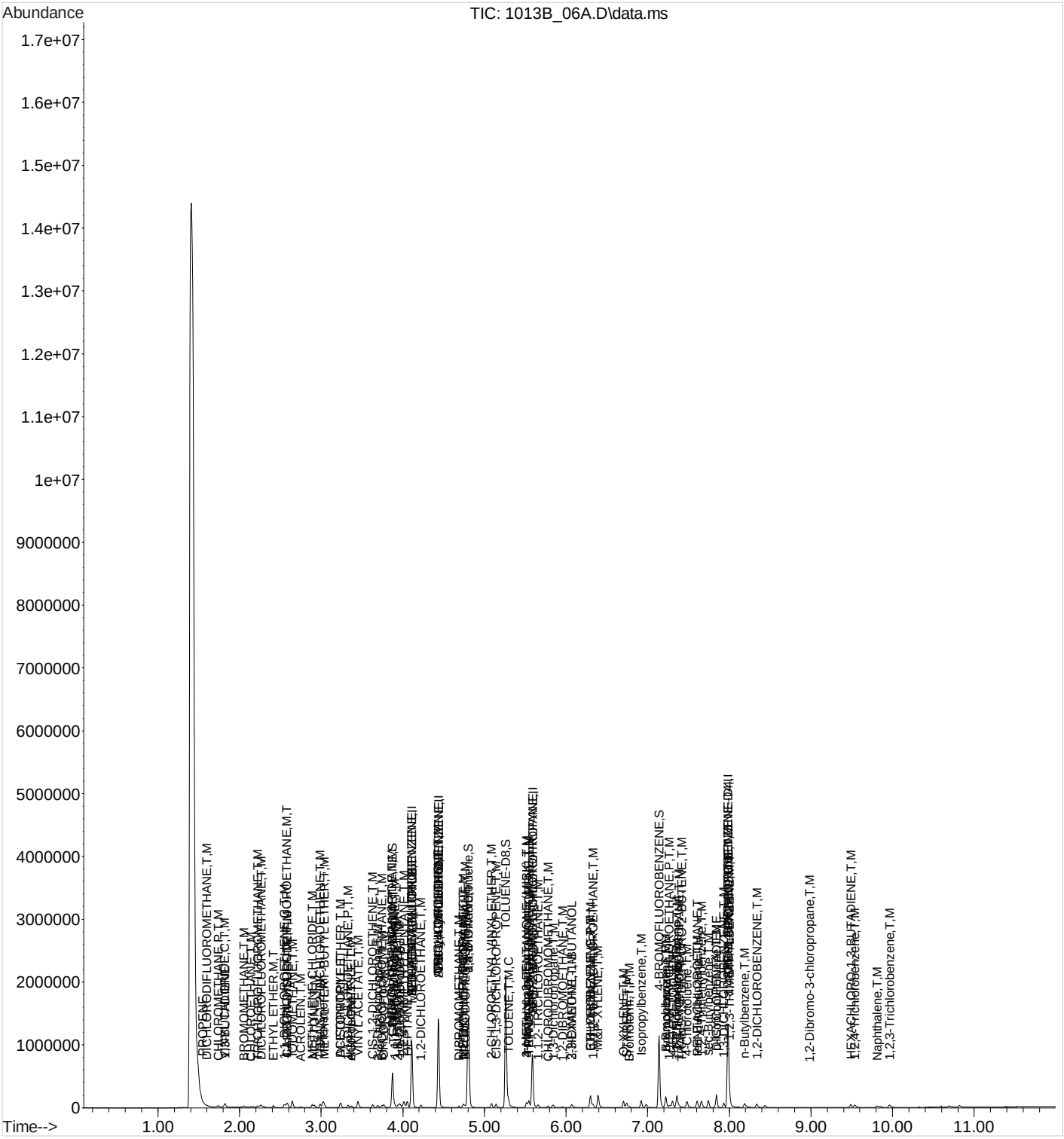
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) METHACRYLONITRILE	4.115	67	1531	0.5569291 ppb #	1
116) Methyl Cyclohexane	4.432	83	9836	0.4336844 ppb #	37
117) 2-nitropropane	5.515	43	63409	36.7305570 ppb #	38
118) METHYL METHACRYLATE	4.742	41	9915	1.4523999 ppb #	17
119) 1,4-DIOXANE	4.803	88	5140	80.9369877 ppb #	42
121) 3,3-DIMETHYL-1-BUTANOL	6.068	57	7554	11.4579782 ppb #	46
126) PENTACHLOROETHANE	7.607	117	1594	0.4062141 ppb #	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06A.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



V818J13O.M Wed Oct 14 10:51:33 2015 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07A.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	467811	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	832022	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	141028	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	307342	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.110	168	467811	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	832022	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	141028	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	307342	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	249601	42.1159003 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.29%		
46) a,a,a-Trifluorotoluene	4.803	146	462926	43.2536215 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.13%		
50) TOLUENE-D8	5.259	98	1127098	43.2261668 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 108.07%		
68) 4-BROMOFLUOROBENZENE	7.139	95	378120	42.1238442 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.31%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-3249368m	Below Cal	
3) PROPENE	1.554	41	11727	4.5395752 ppb	93
4) DICHLORODIFLUOROMETHANE	1.597	85	26853	4.7879391 ppb	93
5) CHLOROMETHANE	1.737	50	50552	4.9493612 ppb	98
6) VINYL CHLORIDE	1.816	62	50169	4.8592410 ppb	99
7) 1,3-BUTADIENE	1.816	39	43291	4.8095914 ppb	96
8) BROMOMETHANE	2.047	94	29774	4.9502617 ppb	99
9) CHLOROETHANE	2.138	64	32773	4.7504545 ppb	96
10) TRICHLOROFLUOROMETHANE	2.224	101	47389	4.7334586 ppb	97
11) DICHLOROFLUOROMETHANE	2.260	67	71889	4.9128884 ppb	99
12) ETHYL ETHER	2.412	59	31064	4.8060257 ppb	99
13) ACROLEIN	2.753	56	20819	21.0745742 ppb	96
14) 1,1-DICHLOROETHENE	2.546	61	60771	4.8954693 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	34771	4.9717347 ppb	95
16) ACETONE	2.917	43	80209	22.2130553 ppb	99
17) IODOMETHANE	2.643	142	246159	23.8977729 ppb	99
18) CARBON DISULFIDE	2.583	76	123881	4.6120869 ppb	98
19) METHYLENE CHLORIDE	2.893	84	35672	4.5736195 ppb	96
20) ACRYLONITRILE	3.361	53	48502	22.9804330 ppb	97
21) n-Hexane	3.021	56	44178	4.9015555 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.984	96	35818	4.7854123 ppb	99
23) METHYL TERT-BUTYL ETHER	3.033	73	85245	4.6132797 ppb	92
24) 1,1-DICHLOROETHANE	3.331	63	76932	5.0348033 ppb	99
25) VINYL ACETATE	3.446	43	300685	23.1395865 ppb	99
26) DI-ISOPROPYL ETHER	3.233	45	140809	4.7512474 ppb	99
27) 2,2-Dichloropropane	3.696	77	45092	4.8830224 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.629	96	38384	4.8540509 ppb	99
29) 2-BUTANONE (MEK)	3.939	43	84558	22.2472118 ppb	99
30) BROMOCHLOROMETHANE	3.744	130	18126	4.7783043 ppb	97
31) TETRAHYDROFURAN	3.878	42	9289	4.5841123 ppb	96
32) CHLOROFORM	3.769	83	61957	4.8883985 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.903	97	48984	4.9310985 ppb	98
35) CARBON TETRACHLORIDE	3.866	117	39331	4.7267624 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07A.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,1-Dichloropropene	3.964	75	53294	4.9549154	ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.012	57	189401	4.8534924	ppb		100
38)	HEPTANE	4.049	43	87743	4.7294870	ppb	#	98
39)	BENZENE	4.110	78	163292	4.8650430	ppb		94
40)	1,2-DICHLOROETHANE	4.219	62	43411	4.8418220	ppb		99
42)	TRICHLOROETHENE	4.432	130	34522	4.9675219	ppb		98
43)	1,2-DICHLOROPROPANE	4.742	62	31228	5.1099279	ppb		98
44)	DIBROMOMETHANE	4.681	93	17329	4.8629633	ppb		97
45)	BROMODICHLOROMETHANE	4.767	83	45238	4.7601255	ppb		96
47)	2-CHLOROETHYL VINYL ETHER	5.083	63	67752	23.5474176	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.144	75	56267	4.6987190	ppb		98
49)	4-METHYL-2-PENTANONE (...	5.515	43	141775	22.0648942	ppb		99
51)	TOLUENE	5.290	91	167682	4.7659864	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.545	75	45974	4.5166123	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.655	97	25646	4.7945674	ppb		99
55)	TETRACHLOROETHENE	5.545	164	24750	4.7493283	ppb		95
56)	1,3-Dichloropropane	5.837	76	51371	4.8227029	ppb		99
57)	2-HEXANONE	6.062	58	55296	20.3307258	ppb		95
58)	CHLORODIBROMOMETHANE	5.776	129	23616	4.4965779	ppb		99
59)	1,2-DIBROMOETHANE	5.953	107	24185	4.8593231	ppb		98
60)	CHLOROBENZENE	6.294	112	87508	4.6703003	ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.324	133	25660	4.6673193	ppb	#	99
62)	ETHYLBENZENE	6.294	106	51268	4.7846250	ppb		99
63)	M&P-XYLENE	6.391	106	126921	9.4488214	ppb		97
64)	O-XYLENE	6.701	106	59893	4.8009499	ppb		98
65)	STYRENE	6.738	104	87451	4.5180331	ppb		100
66)	Bromoform	6.774	173	12299	4.1719027	ppb		99
67)	Isopropylbenzene	6.920	105	162745	4.8773947	ppb		99
69)	Bromobenzene	7.224	77	73823	4.6589045	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.267	83	32308	4.7252092	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.382	110	7770	4.3946195	ppb		95
72)	TRANS-1,4-DICHLORO-2-B...	7.407	53	4876	4.2467645	ppb	#	88
73)	n-Propylbenzene	7.218	91	201945	4.7813645	ppb		99
74)	4-ETHYLTOLUENE	7.297	105	155910	4.8252368	ppb		99
75)	2-Chlorotoluene	7.352	126	35045	4.8087813	ppb		98
76)	4-Chlorotoluene	7.474	91	112494	4.7333187	ppb		99
77)	1,3,5-Trimethylbenzene	7.358	105	136702	4.8769503	ppb		98
78)	tert-Butylbenzene	7.608	119	106644	4.8930407	ppb		98
79)	1,2,4-Trimethylbenzene	7.656	105	127081	4.7697197	ppb		100
80)	sec-Butylbenzene	7.741	105	176748	4.9148248	ppb		99
81)	1,3-DICHLOROBENZENE	7.930	146	62563	4.8742051	ppb		99
82)	p-Isopropyltoluene	7.845	119	133766	4.8018064	ppb		99
83)	DICYCLOPENTADIENE	7.845	66	189127	4.8354727	ppb		100
85)	1,4-DICHLOROBENZENE	7.997	146	61796	4.7406586	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.997	105	130859	4.9092589	ppb		99
87)	1,2-DICHLOROBENZENE	8.332	146	58122	4.9794571	ppb		98
88)	n-Butylbenzene	8.179	91	136956	5.2792771	ppb		100
89)	1,2-Dibromo-3-chloropr...	8.976	157	3791	4.1221991	ppb		95
90)	1,2,4-Trichlorobenzene	9.530	180	34891	5.0738778	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.487	225	22389	5.4756349	ppb		96
92)	Naphthalene	9.804	128	74159	4.4973154	ppb		99
93)	1,2,3-Trichlorobenzene	9.956	180	32643	4.8001963	ppb		99
100)	Methyl Acetate	3.021	43	70270	14.0096281	ppb	#	69
101)	ACETONITRILE	3.233	41	23229	29.4233150	ppb	#	41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07A.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

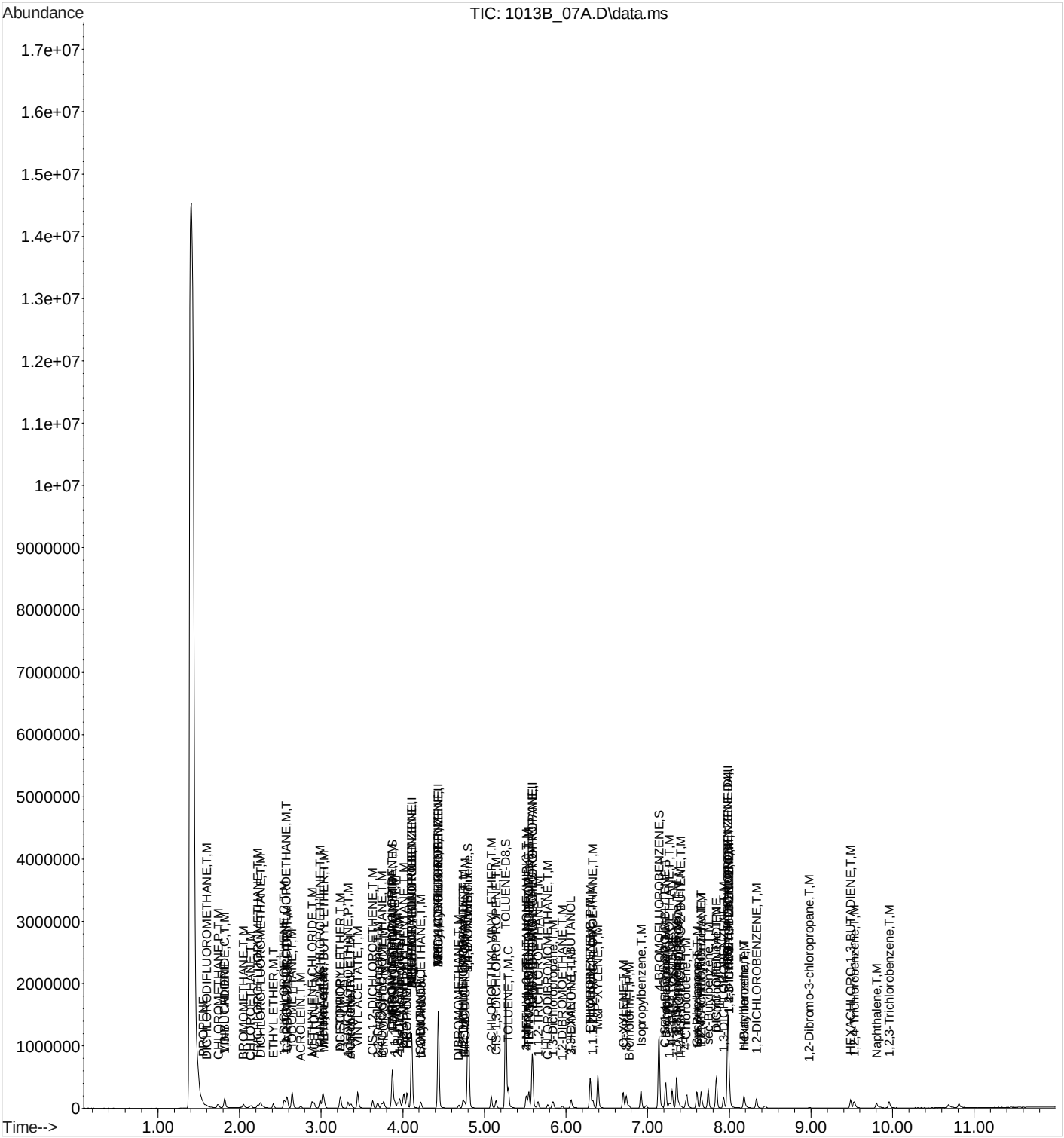
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) chloroprene	3.361	53	48502	3.4924394	ppb #	26
106) PROPIONITRILE	4.049	54	821	0.9023709	ppb #	1
108) METHACRYLONITRILE	4.110	67	1497	0.5380934	ppb #	1
111) ISOBUTANOL	4.213	43	1452	3.2878716	ppb #	1
112) t-Amyl Alcohol	4.225	59	809	1.4604827	ppb #	25
116) Methyl Cyclohexane	4.432	83	10491	0.4560836	ppb #	40
117) 2-nitropropane	5.515	43	142113	81.1676048	ppb #	39
118) METHYL METHACRYLATE	4.742	41	22710	3.2800687	ppb #	17
119) 1,4-DIOXANE	4.803	88	5760	89.4290701	ppb #	38
121) 3,3-DIMETHYL-1-BUTANOL	6.056	57	18620	27.8472942	ppb #	49
124) CIS-1,4-DICHLORO-2-BUTENE	7.212	53	1269	0.6840585	ppb #	1
125) Cyclohexanone	7.601	55	952	0.7354146	ppb #	23
126) PENTACHLOROETHANE	7.656	117	4348	1.0912596	ppb #	13
127) Hexachloroethane	8.179	117	2067	0.4240459	ppb #	70

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07A.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18A.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:49 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.110	168	436715	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.432	114	775776	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.588	79	131523	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	7.985	152	283142	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.110	168	436715	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	775776	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	131523	40.0000000	ppb		0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	283142	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	3.872	111	215308	38.9163639	ppb		0.00
	Spiked Amount 40.000	Range 79 - 121			Recovery = 97.29%			
46)	a,a,a-Trifluorotoluene	4.803	146	408513	40.9369285	ppb		0.00
	Spiked Amount 40.000	Range 90 - 116			Recovery = 102.34%			
50)	TOLUENE-D8	5.259	98	994512	40.9066150	ppb		0.00
	Spiked Amount 40.000	Range 90 - 115			Recovery = 102.27%			
68)	4-BROMOFLUOROBENZENE	7.139	95	326222	38.9686387	ppb		0.00
	Spiked Amount 40.000	Range 80 - 120			Recovery = 97.42%			
Target Compounds								Qvalue
2)	TPH (GC/MS) LOW FRACTION	6.030	TIC -3562333m		Below Cal			
7)	1,3-BUTADIENE	1.798	39	2912	0.3465567	ppb	#	66
16)	ACETONE	2.917	43	6194	1.8375058	ppb		93
20)	ACRYLONITRILE	3.319	53	62728	31.8370135	ppb	#	50
25)	VINYL ACETATE	3.446	43	4023	0.3316394	ppb	#	76
29)	2-BUTANONE (MEK)	4.012	43	8960	2.5252316	ppb	#	48
31)	TETRAHYDROFURAN	3.811	42	3577	1.8909391	ppb	#	34
37)	2,2,4-TRIMETHYLPENTANE	4.018	57	38449	1.0554301	ppb	#	1
38)	HEPTANE	4.012	43	8960	0.5173469	ppb	#	25
40)	1,2-DICHLOROETHANE	4.122	62	3916	0.4678687	ppb	#	76
43)	1,2-DICHLOROPROPANE	4.803	62	7808	1.3702786	ppb	#	20
49)	4-METHYL-2-PENTANONE (...	5.527	43	2231	0.3723919	ppb	#	82
52)	TRANS-1,3-DICHLOROPROPENE	5.588	75	6736	0.7097429	ppb	#	1
57)	2-HEXANONE	6.087	58	525	1.4075813	ppb	#	1
72)	TRANS-1,4-DICHLORO-2-B...	7.431	53	541	1.9071638	ppb	#	26
78)	tert-Butylbenzene	7.632	119	17193	0.8458585	ppb	#	34
92)	Naphthalene	9.828	128	8295	0.5460388	ppb		99
97)	ETHANOL	2.485	45	9128	116.1523518	ppb	#	86
98)	Bromoethane	2.710	108	6645	1.0491146	ppb		97
99)	2-PROPANOL	2.820	45	2263	5.7070204	ppb	#	54
100)	Methyl Acetate	2.978	43	95368	20.3672150	ppb	#	100
101)	ACETONITRILE	3.191	41	35186	47.7422965	ppb		99
102)	ALLYL CHLORIDE	2.826	76	19134	4.8736611	ppb		91
103)	tert-BUTYL ALCOHOL	3.069	59	7551	4.6613626	ppb	#	84
104)	chloroprene	3.319	53	62728	4.8384137	ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.434	59	23723	1.0292235	ppb		98
106)	PROPIONITRILE	4.116	54	39948	47.0337161	ppb	#	68
107)	Ethyl Acetate	3.818	43	58159	9.6082483	ppb		100
108)	METHACRYLONITRILE	4.122	67	129863	50.0027201	ppb		96
109)	Cyclohexane	3.751	84	17407	1.0153032	ppb		97
110)	tert-butyl formate	4.012	59	47843	10.4092524	ppb		96
111)	ISOBUTANOL	4.170	43	43042	104.4030028	ppb	#	30
112)	t-Amyl Alcohol	4.237	59	2639	5.1033999	ppb	#	71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18A.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:49 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

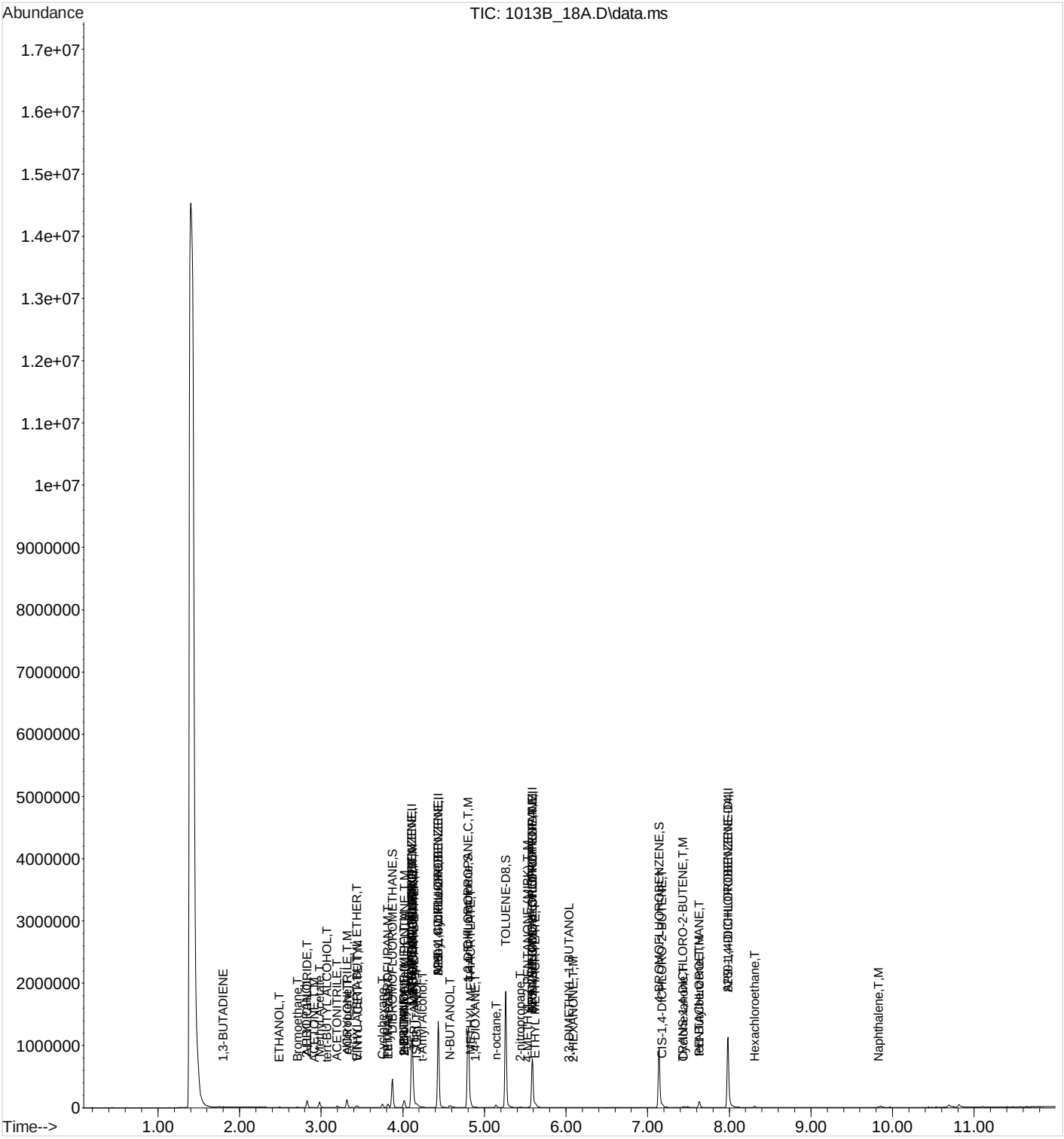
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
113) TERT-AMYL METHYL ETHER	4.140	73	23728	1.0022625	ppb	#	92
115) N-BUTANOL	4.578	56	26169	151.1526367	ppb		96
116) Methyl Cyclohexane	4.432	83	28251	1.3172248	ppb	#	86
117) 2-nitropropane	5.436	43	8591	5.2624879	ppb		97
118) METHYL METHACRYLATE	4.827	41	30419	4.7120427	ppb	#	29
119) 1,4-DIOXANE	4.888	88	5958	99.2099430	ppb		95
120) n-octane	5.144	85	7949	1.0033935	ppb		96
121) 3,3-DIMETHYL-1-BUTANOL	6.038	57	2601	4.1719793	ppb	#	85
123) ETHYL METHACRYLATE	5.624	69	32558	4.2713224	ppb	#	99
124) CIS-1,4-DICHLORO-2-BUTENE	7.176	53	7091	4.0986678	ppb	#	23
125) Cyclohexanone	7.437	55	9363	7.7555740	ppb		98
126) PENTACHLOROETHANE	7.632	117	16790	4.5184855	ppb		93
127) Hexachloroethane	8.307	117	4244	0.9335798	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18A.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:51:49 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On    : 14 Oct 2015  12:30 am
Operator  : 591
Sample    : STD VMS 1a ppb 15H20824
Misc      : water IS/SURR15D18333
ALS Vial  : 18   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 09:28:05 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration
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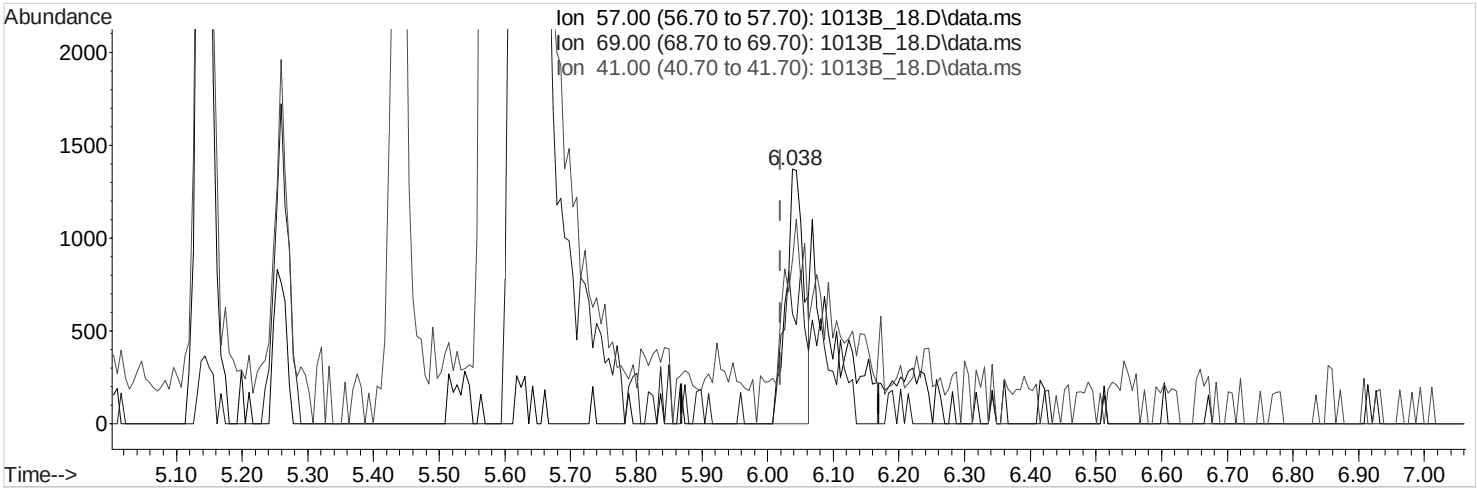
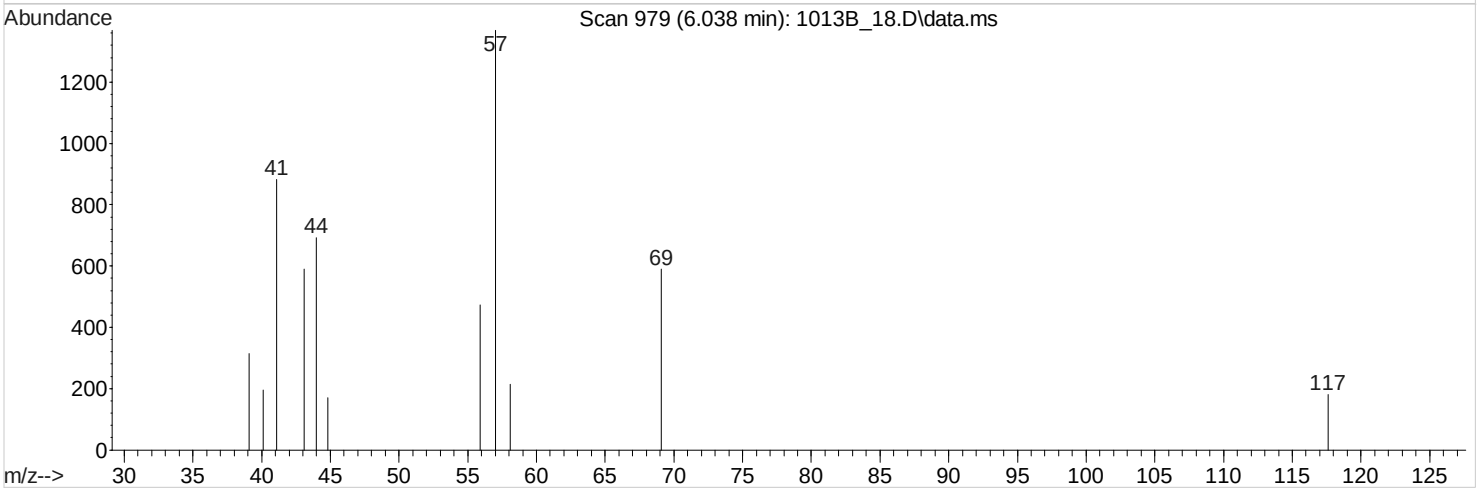




TIC: 1013B_18.D\data.ms

(121) 3,3-DIMETHYL-1-BUTANOL

6.038min (+0.018) 3.2220477 ppb

Qvalue = 84

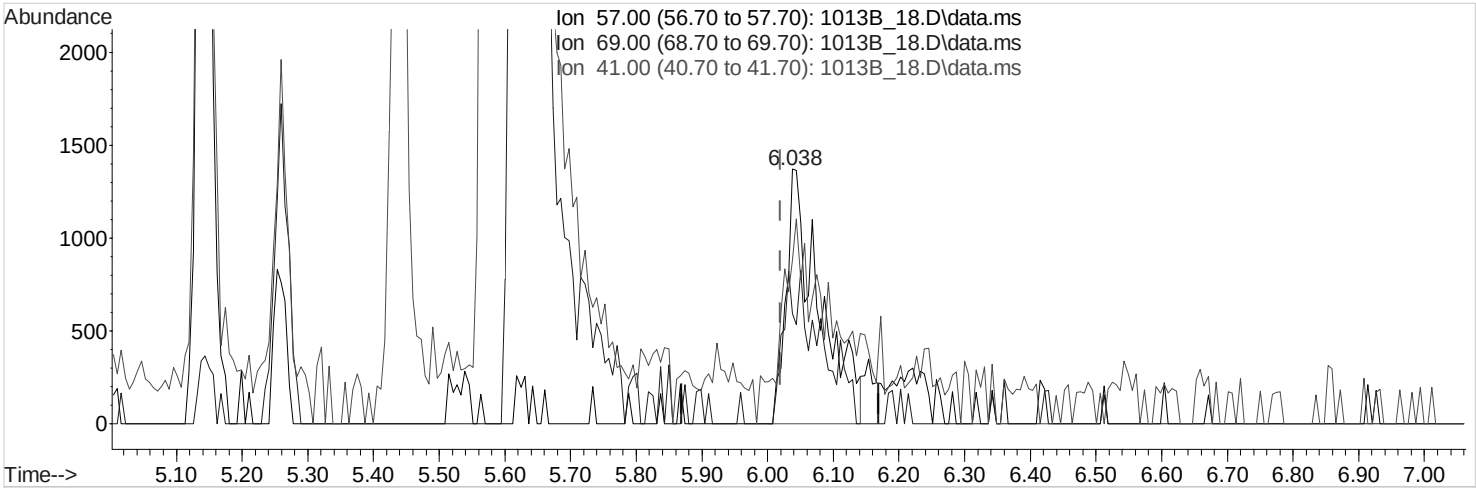
response 2601

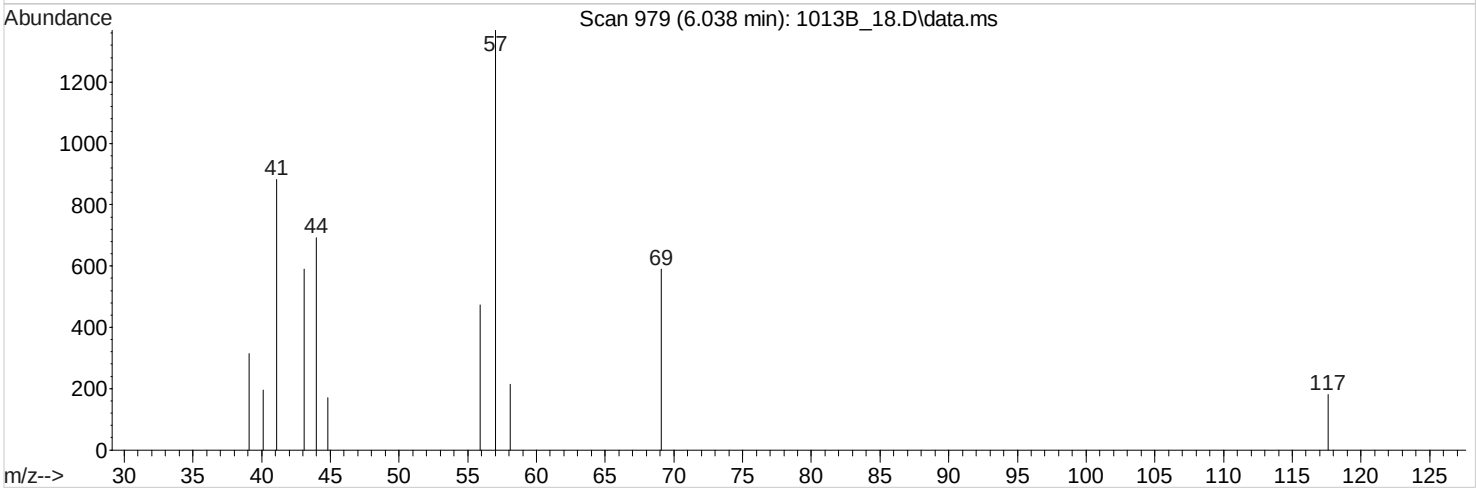
Ion	Exp%	Act%
57.00	100	100
69.00	68.90	43.71#
41.00	69.90	71.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:28:05 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration





TIC: 1013B_18.D\data.ms

(121) 3,3-DIMETHYL-1-BUTANOL
6.038min (+0.018) 5.9968985 ppb m

response 4841

Ion	Exp%	Act%
57.00	100	100
69.00	68.90	23.49#
41.00	69.90	38.19#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 15.D
Acq On : 13 Oct 2015 10:51 pm
Operator : 591
Sample : SSCV VMS 25 ppb 15J11487
Misc : water IS/SURR15D18333
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:25:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:13:11 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	458940	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	811925	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	141785	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	319260	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	458940	40.0000000 ppb	-0.01
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	811925	40.0000000 ppb	-0.01
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	141785	40.0000000 ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	319260	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	265091	45.5941654 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 113.99%		
46) a,a,a-Trifluorotoluene	4.803	146	472921	45.2812490 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 113.20%		
50) TOLUENE-D8	5.259	98	1151748	45.2648836 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 113.16%		
68) 4-BROMOFLUOROBENZENE	7.133	95	406635	45.0586488 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.65%		
Target Compounds					Qvalue
3) PROPENE	1.548	41	35834	14.1396316 ppb	93
4) DICHLORODIFLUOROMETHANE	1.591	85	132126	24.0136738 ppb	98
5) CHLOROMETHANE	1.737	50	251327	25.0821336 ppb	99
6) VINYL CHLORIDE	1.816	62	254705	25.1469307 ppb	98
7) 1,3-BUTADIENE	1.816	39	228786	25.9092312 ppb	100
8) BROMOMETHANE	2.041	94	154216	26.1357475 ppb	99
9) CHLOROETHANE	2.138	64	158035	23.3499933 ppb	100
10) TRICHLOROFLUOROMETHANE	2.217	101	252984	25.7577908 ppb	100
11) DICHLOROFLUOROMETHANE	2.260	67	368047	25.6384788 ppb	99
12) ETHYL ETHER	2.406	59	170080	26.8223284 ppb	98
13) ACROLEIN	2.747	56	133015	137.2505457 ppb	98
14) 1,1-DICHLOROETHENE	2.546	61	319596	26.2430195 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	174384	25.4162758 ppb	99
16) ACETONE	2.911	43	513675	145.0067247 ppb	99
17) IODOMETHANE	2.643	142	1314844	130.1159263 ppb	99
18) CARBON DISULFIDE	2.576	76	695242	26.3841613 ppb	99
19) METHYLENE CHLORIDE	2.887	84	192083	25.1036008 ppb	99
20) ACRYLONITRILE	3.355	53	297014	143.4465144 ppb	99
21) n-Hexane	3.014	56	228330	25.8229211 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.984	96	193893	26.4055169 ppb	96
23) METHYL TERT-BUTYL ETHER	3.033	73	487047	26.8674382 ppb	98
24) 1,1-DICHLOROETHANE	3.331	63	389612	25.9909605 ppb	100
25) VINYL ACETATE	3.446	43	1535744	120.4695192 ppb	100
26) DI-ISOPROPYL ETHER	3.233	45	764880	26.3078317 ppb	100
27) 2,2-Dichloropropane	3.690	77	232912	25.7096168 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.629	96	197476	25.4555763 ppb	98
29) 2-BUTANONE (MEK)	3.933	43	583923	156.5997220 ppb	98
30) BROMOCHLOROMETHANE	3.744	130	99080	26.6239412 ppb	99
31) TETRAHYDROFURAN	3.872	42	55570	27.9538225 ppb	98
32) CHLOROFORM	3.769	83	323604	26.0258319 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.903	97	258483	26.5238118 ppb	98
35) CARBON TETRACHLORIDE	3.866	117	211439	25.9017075 ppb	100
36) 1,1-Dichloropropene	3.963	75	272641	25.8382807 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 15.D
Acq On : 13 Oct 2015 10:51 pm
Operator : 591
Sample : SSCV VMS 25 ppb 15J11487
Misc : water IS/SURR15D18333
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:25:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:13:11 2015
Response via : Initial Calibration

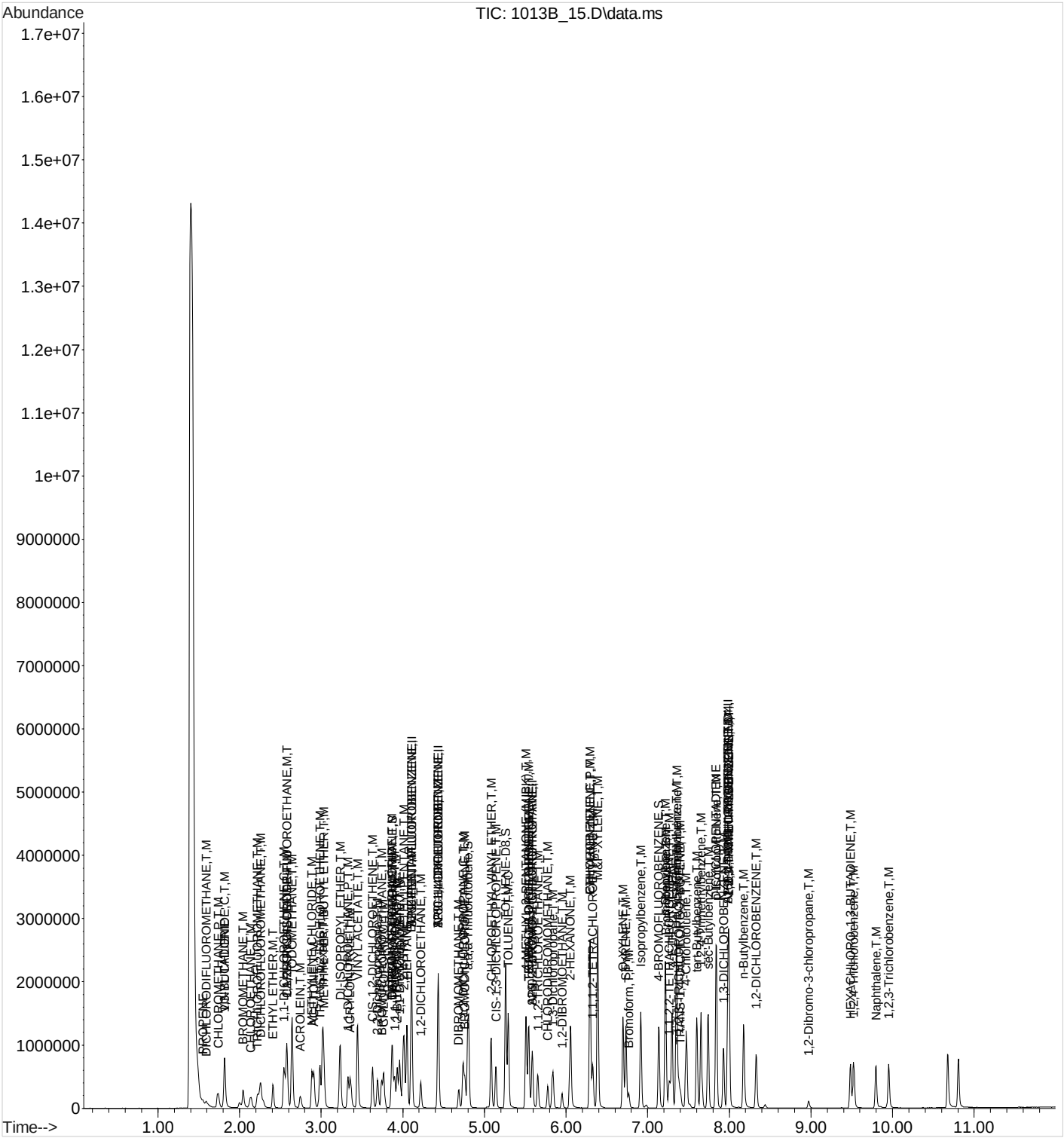
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.012	57	1007918	26.3276325	ppb		99
38)	HEPTANE	4.049	43	469257	25.7826073	ppb	#	97
39)	BENZENE	4.103	78	833144	25.3020879	ppb		100
40)	1,2-DICHLOROETHANE	4.219	62	229479	26.0895443	ppb		99
42)	TRICHLOROETHENE	4.432	130	176825	26.0739248	ppb		98
43)	1,2-DICHLOROPROPANE	4.742	62	159726	26.7833634	ppb		99
44)	DIBROMOMETHANE	4.681	93	95472	27.4550606	ppb		99
45)	BROMODICHLOROMETHANE	4.760	83	239054	25.7768542	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.083	63	396631	141.2624442	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.144	75	320256	27.4057619	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.509	43	863746	137.7549262	ppb		100
51)	TOLUENE	5.290	91	845531	24.6271858	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.545	75	276202	27.8064940	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.655	97	139304	25.9040956	ppb		99
55)	TETRACHLOROETHENE	5.545	164	131181	25.0381933	ppb		99
56)	1,3-Dichloropropane	5.837	76	278673	26.0221059	ppb		99
57)	2-HEXANONE	6.050	58	427447	148.2073957	ppb		96
58)	CHLORODIBROMOMETHANE	5.776	129	138130	26.1600670	ppb		99
59)	1,2-DIBROMOETHANE	5.953	107	132776	26.5353200	ppb		100
60)	CHLOROBENZENE	6.293	112	477588	25.3527756	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.324	133	144186	26.0860914	ppb	#	99
62)	ETHYLBENZENE	6.293	106	275084	25.5353561	ppb		97
63)	M&P-XYLENE	6.391	106	663207	49.1098171	ppb		99
64)	O-XYLENE	6.695	106	320259	25.5345087	ppb		98
65)	STYRENE	6.732	104	523399	26.8963024	ppb		99
66)	Bromoform	6.768	173	78337	26.4305598	ppb		99
67)	Isopropylbenzene	6.914	105	856901	25.5438265	ppb		100
69)	Bromobenzene	7.224	77	397212	24.9338610	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.267	83	185551	26.9928863	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.382	110	48126	27.0741659	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.401	53	43554	25.1846296	ppb	#	98
73)	n-Propylbenzene	7.218	91	1071557	25.2353357	ppb		99
74)	4-ETHYLTOLUENE	7.297	105	818693	25.2023358	ppb		99
75)	2-Chlorotoluene	7.352	126	188877	25.7788237	ppb		100
76)	4-Chlorotoluene	7.474	91	603040	25.2381530	ppb		99
77)	1,3,5-Trimethylbenzene	7.358	105	711223	25.2379636	ppb		100
78)	tert-Butylbenzene	7.601	119	570990	26.0582930	ppb		100
79)	1,2,4-Trimethylbenzene	7.656	105	679196	25.3560976	ppb		99
80)	sec-Butylbenzene	7.741	105	933937	25.8312948	ppb		100
81)	1,3-DICHLOROBENZENE	7.930	146	331022	25.6518182	ppb		100
82)	p-Isopropyltoluene	7.845	119	726918	25.9549018	ppb		99
83)	DICYCLOPENTADIENE	7.839	66	978506	24.8842157	ppb		100
85)	1,4-DICHLOROBENZENE	7.991	146	335242	24.7579190	ppb		99
86)	1,2,3-TRIMETHYLBENZENE	7.997	105	693780	25.0559871	ppb		99
87)	1,2-DICHLOROBENZENE	8.325	146	309355	25.5138496	ppb		99
88)	n-Butylbenzene	8.173	91	730277	27.0993219	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.970	157	27688	25.9571132	ppb		95
90)	1,2,4-Trichlorobenzene	9.524	180	196961	27.5730131	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.487	225	112841	26.5670980	ppb		99
92)	Naphthalene	9.798	128	489158	28.5572275	ppb		99
93)	1,2,3-Trichlorobenzene	9.950	180	188442	26.6762046	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 15.D
Acq On : 13 Oct 2015 10:51 pm
Operator : 591
Sample : SSCV VMS 25 ppb 15J11487
Misc : water IS/SURR15D18333
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:25:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:13:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 28.D
Acq On : 14 Oct 2015 3:55 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15D18333
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:36:57 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	432066	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	749129	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	125966	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	279315	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	432066	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	749129	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	125966	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	279315	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	213065	38.9253225	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.31%			
46) a,a,a-Trifluorotoluene	4.803	146	398078	41.3101983	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.28%			
50) TOLUENE-D8	5.259	98	958860	40.8430765	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.11%			
68) 4-BROMOFLUOROBENZENE	7.139	95	320354	39.9558623	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.89%			
Target Compounds						Qvalue
3) PROPENE	1.536	41	1768	0.7410216	ppb #	57
5) CHLOROMETHANE	1.749	50	5031	0.5333170	ppb #	77
7) 1,3-BUTADIENE	1.810	39	10542	1.2681012	ppb	98
9) CHLOROETHANE	2.126	64	545	0.0855334	ppb #	46
16) ACETONE	2.917	43	7116	2.1337399	ppb	94
17) IODOMETHANE	2.649	142	725	0.0762079	ppb #	45
18) CARBON DISULFIDE	2.582	76	1342	0.0540961	ppb #	1
19) METHYLENE CHLORIDE	2.893	84	1735	0.2408532	ppb	91
20) ACRYLONITRILE	3.318	53	639224	327.9230695	ppb #	50
21) n-Hexane	3.014	56	507	0.0609055	ppb #	1
23) METHYL TERT-BUTYL ETHER	2.978	73	1439	0.0843183	ppb #	1
24) 1,1-DICHLOROETHANE	3.318	63	9387	0.6651547	ppb #	44
25) VINYL ACETATE	3.434	43	22981	1.9148426	ppb #	76
26) DI-ISOPROPYL ETHER	3.312	45	901	0.0329172	ppb #	1
27) 2,2-Dichloropropane	3.757	77	2728	0.3198556	ppb #	59
29) 2-BUTANONE (MEK)	4.012	43	69356	19.7571939	ppb #	48
31) TETRAHYDROFURAN	3.811	42	39522	21.1176477	ppb #	46
32) CHLOROFORM	3.757	83	9617	0.8215541	ppb #	42
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	376548	10.4475094	ppb #	1
38) HEPTANE	4.012	43	69356	4.0476778	ppb #	25
39) BENZENE	4.103	78	847	0.0273228	ppb #	1
40) 1,2-DICHLOROETHANE	4.122	62	33734	4.0737765	ppb #	76
42) TRICHLOROETHENE	4.432	130	6979	1.1153605	ppb #	71
43) 1,2-DICHLOROPROPANE	4.803	62	7846	1.4259264	ppb #	1
45) BROMODICHLOROMETHANE	4.827	83	1068	0.1248143	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.533	43	546	0.0943785	ppb #	36
51) TOLUENE	5.290	91	1795	0.0566642	ppb	87
52) TRANS-1,3-DICHLOROPROPENE	5.588	75	6538	0.7133844	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.612	97	1290	0.2700048	ppb #	1
55) TETRACHLOROETHENE	5.545	164	13577	2.9168414	ppb	94
57) 2-HEXANONE	6.080	58	779	1.5144845	ppb #	1
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	2519	0.5129689	ppb #	99
63) M&P-XYLENE	6.409	106	1073	0.0894326	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 28.D
Acq On : 14 Oct 2015 3:55 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15D18333
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:36:57 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

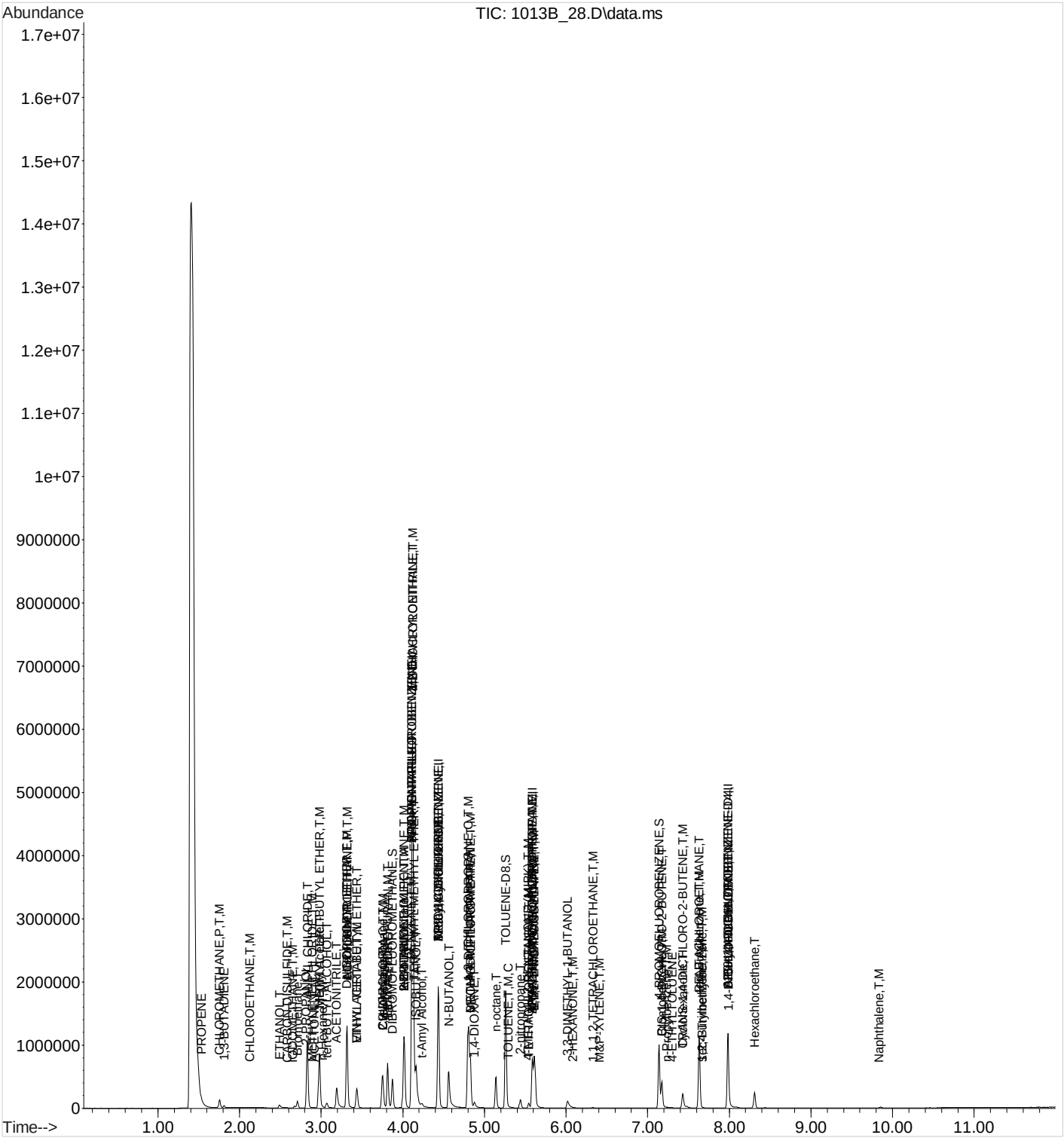
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69)	Bromobenzene	7.175	77	29542	2.0872959	ppb	#	32
72)	TRANS-1,4-DICHLORO-2-B...	7.431	53	5450	4.9142777	ppb	#	26
73)	n-Propylbenzene	7.236	91	875	0.0231942	ppb	#	61
74)	4-ETHYLTOLUENE	7.297	105	951	0.0329517	ppb	#	47
78)	tert-Butylbenzene	7.632	119	181600	9.3284664	ppb	#	29
79)	1,2,4-Trimethylbenzene	7.668	105	1023	0.0429873	ppb	#	32
80)	sec-Butylbenzene	7.668	105	1023	0.0318479	ppb	#	58
85)	1,4-DICHLOROBENZENE	7.991	146	505	0.0426282	ppb	#	1
88)	n-Butylbenzene	7.985	91	1011	0.0428817	ppb	#	33
92)	Naphthalene	9.834	128	514	0.0342989	ppb	#	72
97)	ETHANOL	2.491	45	65001	836.0272455	ppb	#	96
98)	Bromoethane	2.710	108	63590	10.1476336	ppb		94
99)	2-PROPANOL	2.814	45	19533	49.7899667	ppb		99
100)	Methyl Acetate	2.978	43	889845	192.0840719	ppb	#	100
101)	ACETONITRILE	3.185	41	349927	479.9089813	ppb		99
102)	ALLYL CHLORIDE	2.832	76	192937	49.6721658	ppb		97
103)	tert-BUTYL ALCOHOL	3.069	59	81342	50.7541173	ppb		100
104)	chloroprene	3.318	53	639224	49.8359392	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.434	59	227843	9.9913411	ppb		100
106)	PROPIONITRILE	4.109	54	422753	503.0938025	ppb		99
107)	Ethyl Acetate	3.811	43	618636	103.3024193	ppb		99
108)	METHACRYLONITRILE	4.122	67	1280041	498.1728965	ppb		98
109)	Cyclohexane	3.757	84	169694	10.0042914	ppb		100
110)	tert-butyl formate	4.012	59	466620	102.6153900	ppb		100
111)	ISOBUTANOL	4.164	43	376320	922.6263708	ppb		90
112)	t-Amyl Alcohol	4.231	59	24249	47.3982228	ppb		90
113)	TERT-AMYL METHYL ETHER	4.140	73	236465	10.0956723	ppb	#	99
115)	N-BUTANOL	4.566	56	333230	1993.2070908	ppb		98
116)	Methyl Cyclohexane	4.432	83	200177	9.6654032	ppb		98
117)	2-nitropropane	5.436	43	78984	50.1032903	ppb		98
118)	METHYL METHACRYLATE	4.827	41	315677	50.6392136	ppb		99
119)	1,4-DIOXANE	4.876	88	54554	940.7214156	ppb		92
120)	n-octane	5.144	85	78790	10.2993450	ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.020	57	71252	118.3528133	ppb		93
123)	ETHYL METHACRYLATE	5.612	69	365661	50.0877642	ppb	#	100
124)	CIS-1,4-DICHLORO-2-BUTENE	7.175	53	86327	52.0991039	ppb		98
125)	Cyclohexanone	7.431	55	103611	89.6093144	ppb		99
126)	PENTACHLOROETHANE	7.632	117	189306	53.1930558	ppb		99
127)	Hexachloroethane	8.307	117	44464	10.2125206	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 28.D
Acq On : 14 Oct 2015 3:55 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15D18333
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:36:57 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 42.D
Acq On    : 14 Oct 2015  10:31 am
Operator  : 591
Sample    : SSCV GROMS 5.0 ppm 15J13588
Misc      : water IS/SURR15D18333
ALS Vial  : 42   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 10:53:19 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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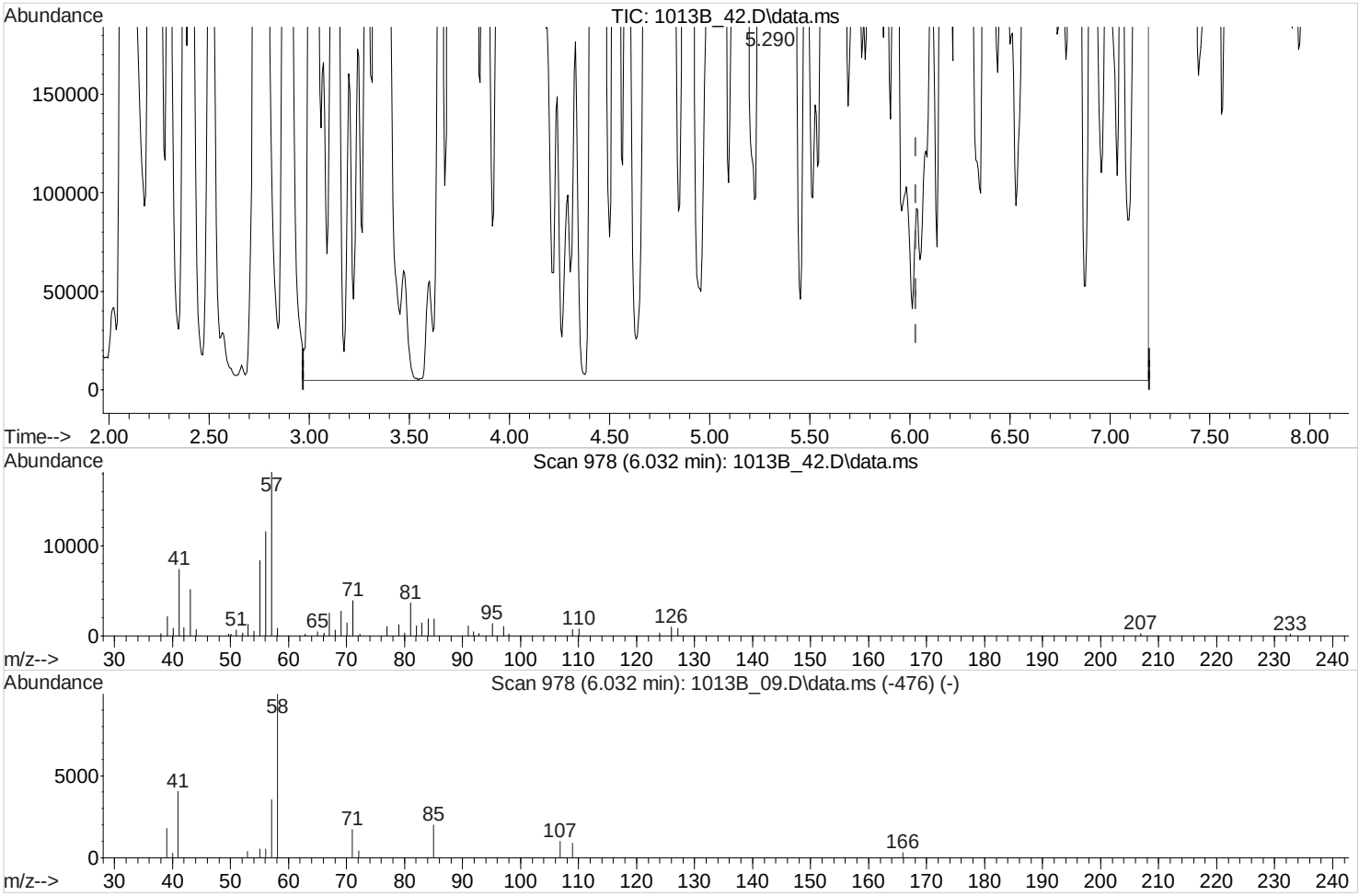


TIC: 1013B_42.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 6.3616855 ppm m

response 219128204

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 Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	458859	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	823998	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	140758	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	301015	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	228398	39.7144153 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.29%		
46) a,a,a-Trifluorotoluene	4.803	146	435643	41.2735480 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.18%		
50) TOLUENE-D8	5.259	98	1038905	40.1613261 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.40%		
68) 4-BROMOFLUOROBENZENE	7.139	95	347699	38.7185638 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.80%		

Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4756107m		Below Cal	
3) PROPENE	1.548	41	626	0.2659029 ppb #	18
4) DICHLORODIFLUOROMETHANE	1.603	85	1036	0.1837307 ppb #	43
5) CHLOROMETHANE	1.737	50	2167	0.2128098 ppb #	92
6) VINYL CHLORIDE	1.804	62	2304	0.2214617 ppb #	81
7) 1,3-BUTADIENE	1.822	39	2001	0.2280191 ppb	88
8) BROMOMETHANE	2.041	94	1306	0.2041343 ppb #	87
9) CHLOROETHANE	2.138	64	1757	0.2679009 ppb #	46
10) TRICHLOROFLUOROMETHANE	2.224	101	1987	0.1971907 ppb #	81
11) DICHLOROFLUOROMETHANE	2.266	67	2891	0.1930092 ppb #	82
12) ETHYL ETHER	2.412	59	1198	0.1839269 ppb #	74
13) ACROLEIN	2.759	56	1209	1.3788823 ppb #	15
14) 1,1-DICHLOROETHENE	2.546	61	2436	0.1952003 ppb #	82
15) 1,1,2-TRICHLOROTRIFLUO...	2.582	101	1434	0.2048031 ppb #	70
16) ACETONE	2.917	43	8827	2.6384258 ppb	98
17) IODOMETHANE	2.643	142	10099	1.0073184 ppb	94
18) CARBON DISULFIDE	2.582	76	6304	0.2374324 ppb #	81
19) METHYLENE CHLORIDE	2.887	84	1975	0.2619884 ppb	87
20) ACRYLONITRILE	3.373	53	1529	0.7029306 ppb #	67
21) n-Hexane	3.027	56	1923	0.2168172 ppb	81
22) TRANS-1,2-DICHLOROETHENE	2.984	96	1657	0.2222420 ppb	92
23) METHYL TERT-BUTYL ETHER	3.039	73	3983	0.2159149 ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	3166	0.2053475 ppb	89
25) VINYL ACETATE	3.459	43	12840	0.9558584 ppb	96
26) DI-ISOPROPYL ETHER	3.233	45	6221	0.2097454 ppb	96
27) 2,2-Dichloropropane	3.696	77	2354	0.2569768 ppb #	59
28) CIS-1,2-DICHLOROETHENE	3.629	96	1916	0.2449066 ppb #	76
29) 2-BUTANONE (MEK)	3.945	43	3324	0.8539459 ppb	99
30) BROMOCHLOROMETHANE	3.751	130	826	0.2124275 ppb	83
32) CHLOROFORM	3.769	83	2491	0.1934679 ppb #	90
34) 1,1,1-TRICHLOROETHANE	3.909	97	2008	0.2027759 ppb	95
35) CARBON TETRACHLORIDE	3.860	117	1709	0.2077895 ppb	95
36) 1,1-Dichloropropene	3.970	75	2113	0.1955931 ppb #	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

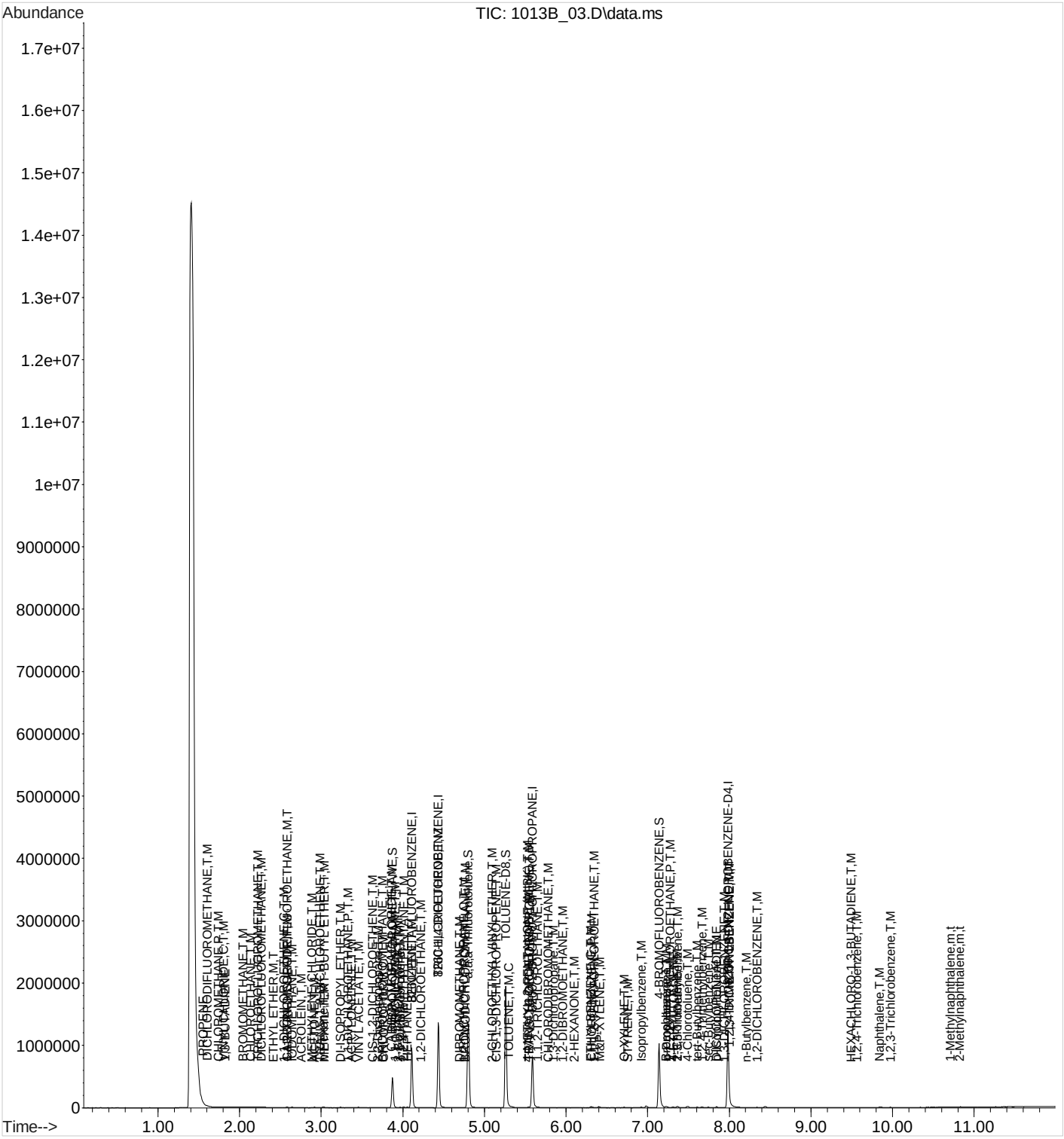
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.012	57	8866	0.2288227 ppb	#	87
38)	HEPTANE	4.055	43	4259	0.2330708 ppb	#	89
39)	BENZENE	4.109	78	7526	0.2286583 ppb	#	1
40)	1,2-DICHLOROETHANE	4.219	62	1896	0.2116029 ppb	#	76
42)	TRICHLOROETHENE	4.432	130	1403	0.1968365 ppb		94
43)	1,2-DICHLOROPROPANE	4.748	62	1063	0.1688237 ppb	#	62
44)	DIBROMOMETHANE	4.693	93	695	0.1888349 ppb	#	36
45)	BROMODICHLOROMETHANE	4.766	83	2120	0.2229796 ppb	#	87
47)	2-CHLOROETHYL VINYL ETHER	5.095	63	2436	0.7700327 ppb	#	95
48)	CIS-1,3-DICHLOROPROPENE	5.144	75	2272	0.1809679 ppb	#	86
49)	4-METHYL-2-PENTANONE (...	5.527	43	4596	0.7002705 ppb		93
51)	TOLUENE	5.296	91	9608	0.2824761 ppb		97
52)	TRANS-1,3-DICHLOROPROPENE	5.551	75	1269	0.1162418 ppb	#	52
54)	1,1,2-TRICHLOROETHANE	5.649	97	1134	0.2087250 ppb	#	61
55)	TETRACHLOROETHENE	5.545	164	1082	0.2063581 ppb		90
56)	1,3-Dichloropropane	5.843	76	2131	0.1982389 ppb		99
57)	2-HEXANONE	6.099	58	1089	0.4035742 ppb		81
58)	CHLORODIBROMOMETHANE	5.782	129	1106	0.2046026 ppb	#	79
59)	1,2-DIBROMOETHANE	5.959	107	1107	0.2169036 ppb		82
60)	CHLOROBENZENE	6.312	112	3913	0.2069160 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.342	133	1065	0.1893484 ppb	#	98
62)	ETHYLBENZENE	6.300	106	2151	0.1988780 ppb		84
63)	M&P-XYLENE	6.415	106	5979	0.4446827 ppb		97
64)	O-XYLENE	6.713	106	2812	0.2202816 ppb		99
65)	STYRENE	6.756	104	3416	0.1704648 ppb		99
67)	Isopropylbenzene	6.920	105	6940	0.2014727 ppb	#	94
69)	Bromobenzene	7.224	77	3204	0.2029688 ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.273	83	1249	0.1774733 ppb	#	81
73)	n-Propylbenzene	7.230	91	8691	0.2000044 ppb	#	96
74)	4-ETHYLTOLUENE	7.316	105	6540	0.1947827 ppb		97
75)	2-Chlorotoluene	7.358	126	1292	0.1699747 ppb	#	93
76)	4-Chlorotoluene	7.486	91	5112	0.2103090 ppb	#	88
77)	1,3,5-Trimethylbenzene	7.364	105	5290	0.1857780 ppb		88
78)	tert-Butylbenzene	7.608	119	4128	0.1814754 ppb	#	78
79)	1,2,4-Trimethylbenzene	7.668	105	5740	0.2082875 ppb		87
80)	sec-Butylbenzene	7.741	105	7681	0.2058355 ppb		96
81)	1,3-DICHLOROBENZENE	7.936	146	2210	0.1638446 ppb		85
82)	p-Isopropyltoluene	7.845	119	5483	0.1851060 ppb		94
83)	DICYCLOPENTADIENE	7.845	66	7745	0.1900836 ppb		100
85)	1,4-DICHLOROBENZENE	7.997	146	3173	0.2506053 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.003	105	6024	0.2280515 ppb		98
87)	1,2-DICHLOROBENZENE	8.338	146	2344	0.2054473 ppb	#	89
88)	n-Butylbenzene	8.210	91	3967	0.1398015 ppb		95
90)	1,2,4-Trichlorobenzene	9.560	180	1238	0.1651274 ppb	#	52
91)	HEXACHLORO-1,3-BUTADIENE	9.493	225	871	0.2043389 ppb	#	56
92)	Naphthalene	9.840	128	3998	0.2468042 ppb	#	72
93)	1,2,3-Trichlorobenzene	9.974	180	1598	0.2373670 ppb	#	86
94)	1-Methylnaphthalene	10.710	142	3815	0.4741483 ppb		93
95)	2-Methylnaphthalene	10.820	142	3647	0.4884389 ppb	#	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



V818J13O.M Wed Oct 14 08:56:29 2015 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	476854	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	838505	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	141768	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	304485	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.99
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	231971	38.8135526	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.03%			
46) a,a,a-Trifluorotoluene	4.803	146	446650	41.5842528	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.96%			
50) TOLUENE-D8	5.259	98	1072929	40.7590162	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.90%			
68) 4-BROMOFLUOROBENZENE	7.139	95	351650	38.8795558	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.20%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-4818576m	Below Cal		
3) PROPENE	1.542	41	1839	0.7516651	ppb #	73
4) DICHLORODIFLUOROMETHANE	1.591	85	2831	0.4831208	ppb #	86
5) CHLOROMETHANE	1.737	50	5203	0.4916776	ppb #	94
6) VINYL CHLORIDE	1.816	62	4450	0.4115949	ppb #	78
7) 1,3-BUTADIENE	1.816	39	4843	0.5310463	ppb #	78
8) BROMOMETHANE	2.053	94	2696	0.4054960	ppb #	88
9) CHLOROETHANE	2.138	64	4097	0.6011214	ppb	97
10) TRICHLOROFLUOROMETHANE	2.224	101	4979	0.4754714	ppb #	89
11) DICHLOROFLUOROMETHANE	2.260	67	6974	0.4480286	ppb	98
12) ETHYL ETHER	2.412	59	3240	0.4786601	ppb	96
13) ACROLEIN	2.753	56	2331	2.5582147	ppb	97
14) 1,1-DICHLOROETHENE	2.546	61	6120	0.4718984	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	3317	0.4558548	ppb	99
16) ACETONE	2.923	43	14582	4.1941375	ppb	100
17) IODOMETHANE	2.643	142	24704	2.3710980	ppb	99
18) CARBON DISULFIDE	2.582	76	12160	0.4407083	ppb #	83
19) METHYLENE CHLORIDE	2.893	84	3990	0.5093094	ppb	95
20) ACRYLONITRILE	3.373	53	4384	1.9394088	ppb	87
21) n-Hexane	3.027	56	4608	0.4999433	ppb	96
22) TRANS-1,2-DICHLOROETHENE	2.990	96	3701	0.4776575	ppb	96
23) METHYL TERT-BUTYL ETHER	3.039	73	9078	0.4735397	ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	7107	0.4435665	ppb	99
25) VINYL ACETATE	3.452	43	29993	2.1485342	ppb	99
26) DI-ISOPROPYL ETHER	3.239	45	14651	0.4753279	ppb	97
27) 2,2-Dichloropropane	3.696	77	5075	0.5331107	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.635	96	3621	0.4453765	ppb	90
29) 2-BUTANONE (MEK)	3.945	43	8761	2.1657924	ppb	98
30) BROMOCHLOROMETHANE	3.744	130	1883	0.4659882	ppb	94
31) TETRAHYDROFURAN	3.878	42	823	0.3994460	ppb #	59
32) CHLOROFORM	3.769	83	6290	0.4700886	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.903	97	4721	0.4587546	ppb	96
35) CARBON TETRACHLORIDE	3.866	117	4215	0.4931431	ppb	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	5033	0.4483062 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	18592	0.4617335 ppb		91
38) HEPTANE	4.055	43	9719	0.5117946 ppb	#	90
39) BENZENE	4.109	78	16891	0.4938238 ppb	#	38
40) 1,2-DICHLOROETHANE	4.219	62	4339	0.4659794 ppb	#	91
42) TRICHLOROETHENE	4.432	130	3370	0.4646205 ppb		93
43) 1,2-DICHLOROPROPANE	4.742	62	2897	0.4521361 ppb		85
44) DIBROMOMETHANE	4.687	93	1605	0.4285416 ppb		87
45) BROMODICHLOROMETHANE	4.766	83	4756	0.4915770 ppb	#	88
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	6520	2.0253495 ppb		94
48) CIS-1,3-DICHLOROPROPENE	5.144	75	5543	0.4338689 ppb	#	88
49) 4-METHYL-2-PENTANONE (...	5.521	43	13045	1.9532165 ppb		98
51) TOLUENE	5.296	91	18218	0.5263443 ppb		94
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	4286	0.3858099 ppb	#	67
54) 1,1,2-TRICHLOROETHANE	5.655	97	2348	0.4290960 ppb		95
55) TETRACHLOROETHENE	5.545	164	2545	0.4819222 ppb		93
56) 1,3-Dichloropropane	5.843	76	5543	0.5119707 ppb		98
57) 2-HEXANONE	6.081	58	3900	1.4350104 ppb		97
58) CHLORODIBROMOMETHANE	5.776	129	2303	0.4230044 ppb	#	88
59) 1,2-DIBROMOETHANE	5.959	107	2251	0.4379147 ppb		98
60) CHLOROBENZENE	6.306	112	9454	0.4963577 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	2376	0.4194240 ppb	#	98
62) ETHYLBENZENE	6.300	106	4853	0.4455038 ppb		88
63) M&P-XYLENE	6.397	106	12851	0.9489722 ppb		96
64) O-XYLENE	6.713	106	5941	0.4620803 ppb		94
65) STYRENE	6.750	104	7875	0.3901776 ppb		99
66) Bromoform	6.774	173	1468	0.4877433 ppb	#	27
67) Isopropylbenzene	6.920	105	15223	0.4387850 ppb	#	94
69) Bromobenzene	7.224	77	8405	0.5286515 ppb		91
70) 1,1,2,2-TETRACHLOROETHANE	7.273	83	3002	0.4235222 ppb	#	95
71) 1,2,3-TRICHLOROPROPANE	7.388	110	834	0.4654312 ppb	#	19
72) TRANS-1,4-DICHLORO-2-B...	7.431	53	484m	0.2947550 ppb		
73) n-Propylbenzene	7.230	91	19732	0.4508539 ppb		98
74) 4-ETHYLTOLUENE	7.309	105	14723	0.4353754 ppb		97
75) 2-Chlorotoluene	7.358	126	3346	0.4370616 ppb		91
76) 4-Chlorotoluene	7.480	91	10912	0.4457241 ppb		98
77) 1,3,5-Trimethylbenzene	7.364	105	14636	0.5103356 ppb		98
78) tert-Butylbenzene	7.614	119	10219	0.4460477 ppb		94
79) 1,2,4-Trimethylbenzene	7.662	105	12225	0.4404484 ppb		96
80) sec-Butylbenzene	7.741	105	15688	0.4174120 ppb		97
81) 1,3-DICHLOROBENZENE	7.930	146	6050	0.4453383 ppb		99
82) p-Isopropyltoluene	7.851	119	12579	0.4216414 ppb		96
83) DICYCLOPENTADIENE	7.845	66	17605	0.4289969 ppb		98
85) 1,4-DICHLOROBENZENE	7.997	146	6358	0.4964356 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	12426	0.4650520 ppb		93
87) 1,2-DICHLOROBENZENE	8.338	146	5852	0.5070717 ppb		91
88) n-Butylbenzene	8.204	91	11530	0.4016994 ppb		91
89) 1,2-Dibromo-3-chloropr...	9.007	157	58m	0.0621295 ppb		
90) 1,2,4-Trichlorobenzene	9.554	180	2723	0.3590612 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.499	225	2101	0.4872830 ppb	#	84
92) Naphthalene	9.816	128	7709	0.4704679 ppb	#	94
93) 1,2,3-Trichlorobenzene	9.974	180	3658	0.5371671 ppb	#	86
94) 1-Methylnaphthalene	10.710	142	4744	0.5828900 ppb	#	79
95) 2-Methylnaphthalene	10.820	142	4669	0.6181881 ppb		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

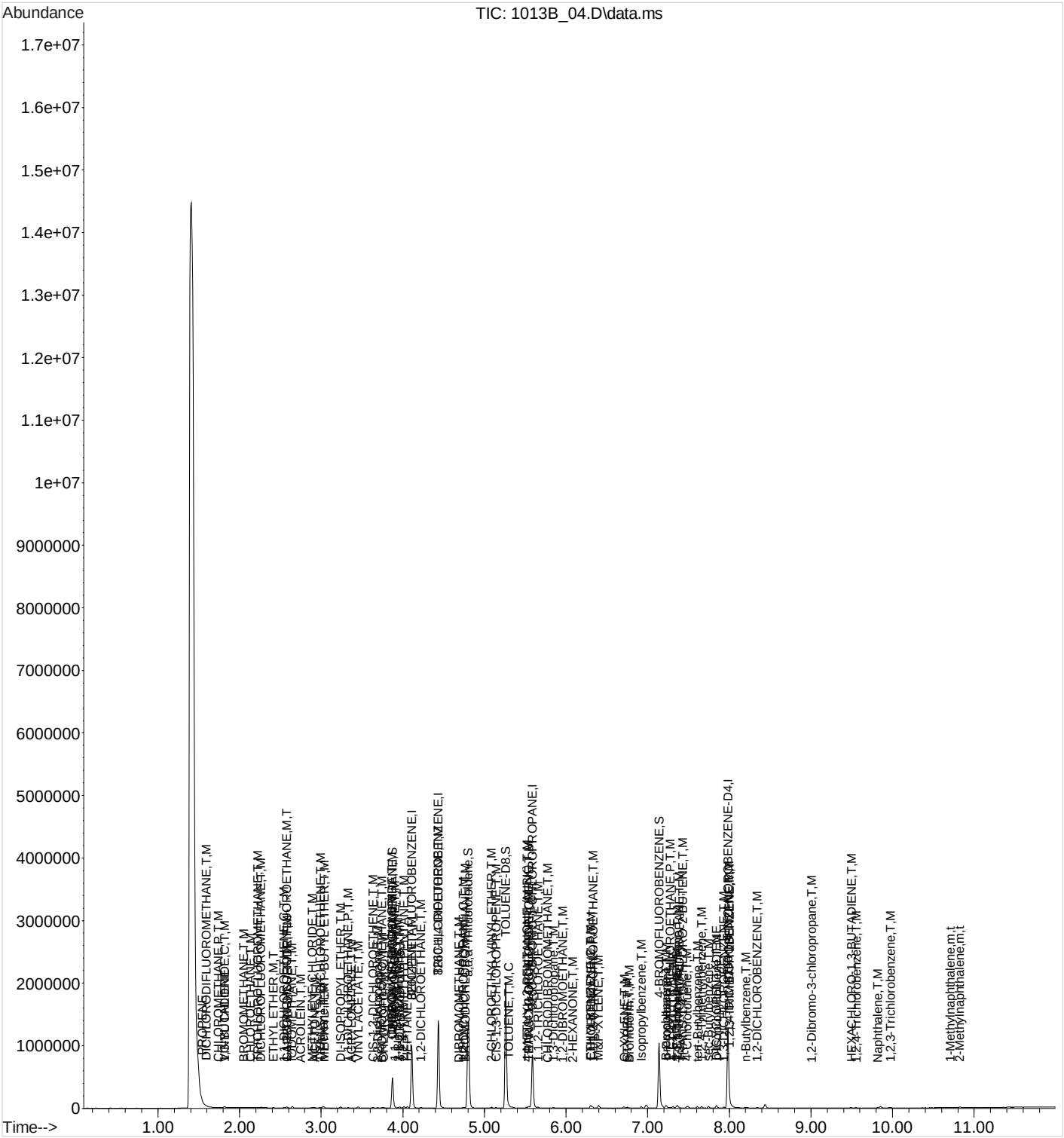
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On    : 13 Oct 2015   7:08 pm
Operator  : 591
Sample    : STD VMS .5 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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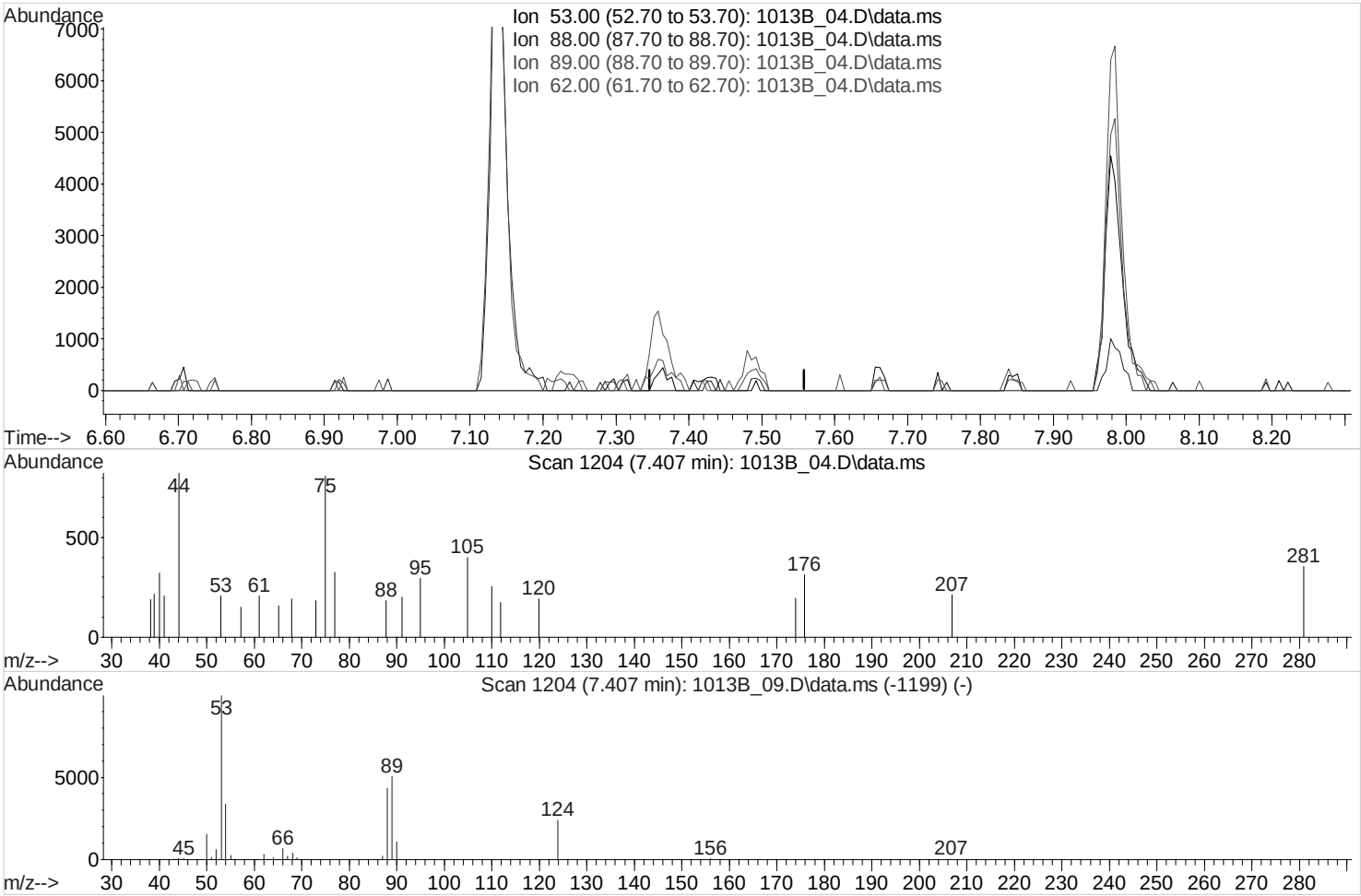


TIC: 1013B_04.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.407min (-7.407) 0.0000000 ppb

Qvalue = 0

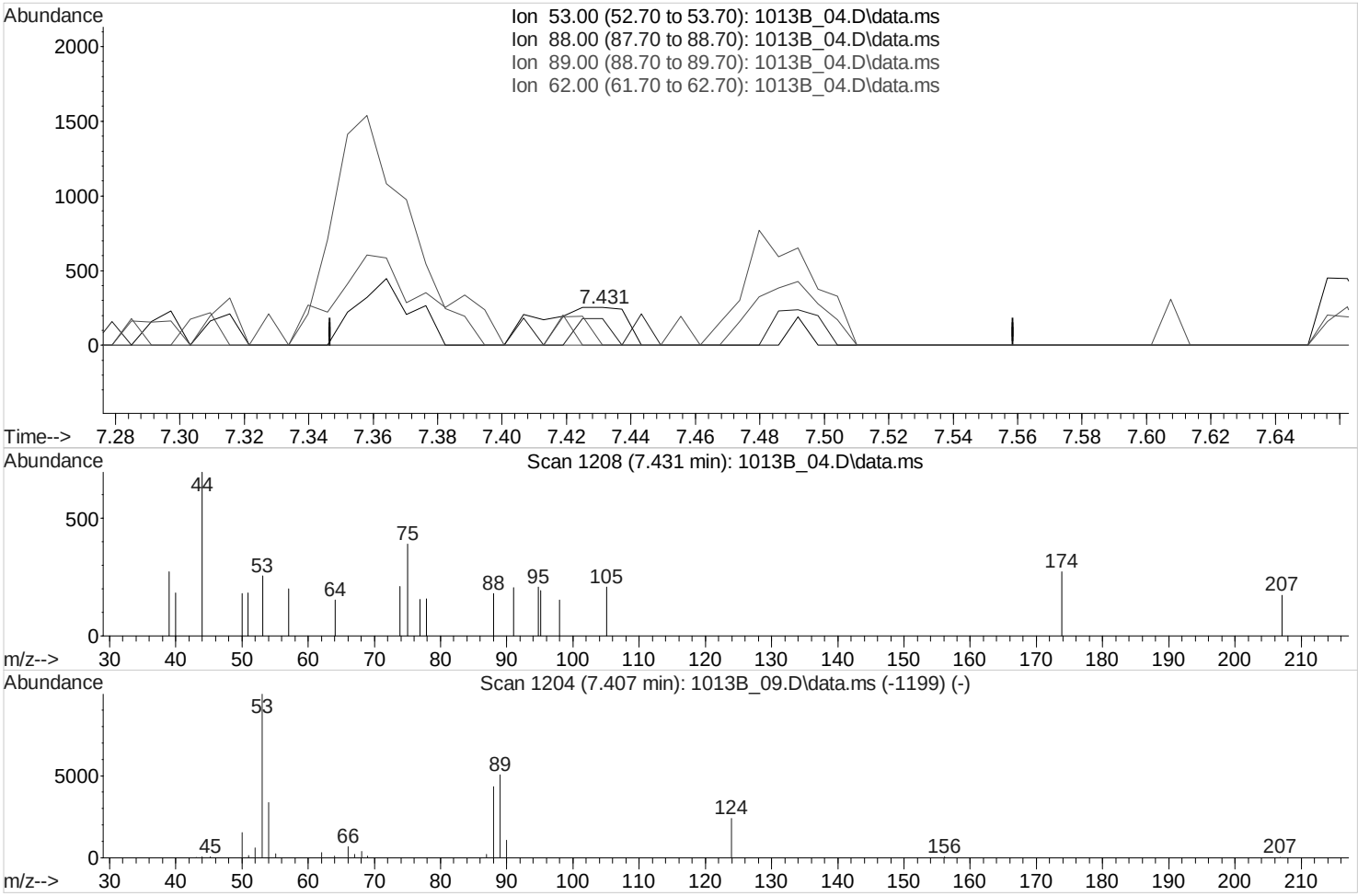
response 0

Ion	Exp%	Act%
53.00	100	0.00
88.00	44.30	0.00#
89.00	57.30	0.00#
62.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



TIC: 1013B_04.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.431min (+0.024) 0.2947550 ppb m

response 484

Ion	Exp%	Act%
53.00	100	100
88.00	44.30	0.00#
89.00	57.30	0.00#
62.00	0.00	0.00

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On    : 13 Oct 2015   7:08 pm
Operator  : 591
Sample    : STD VMS .5 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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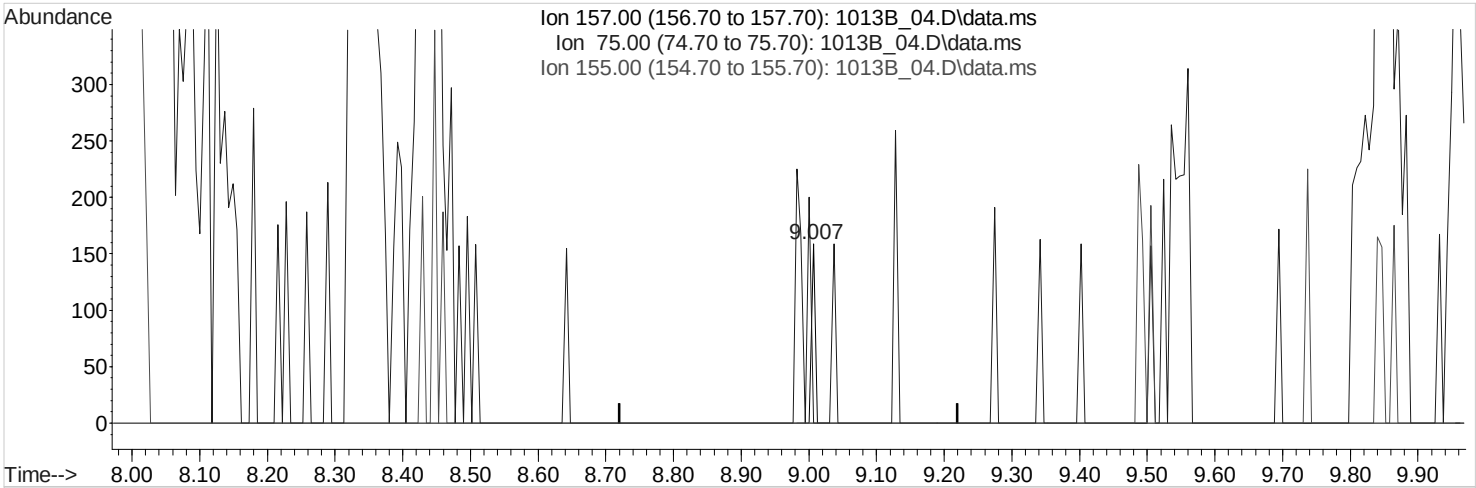
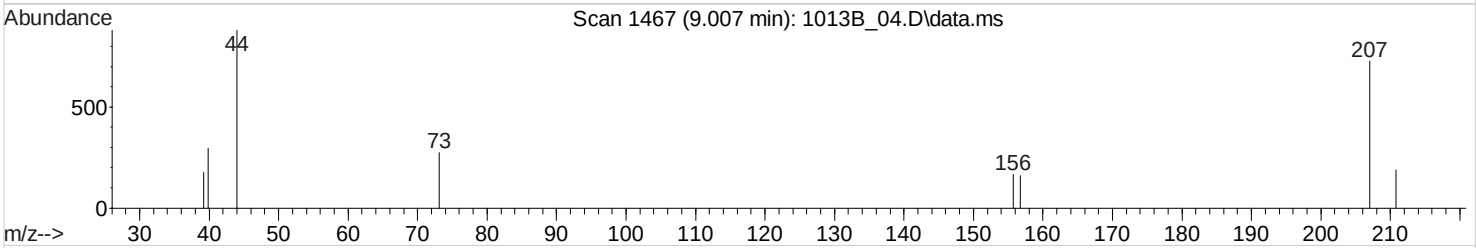
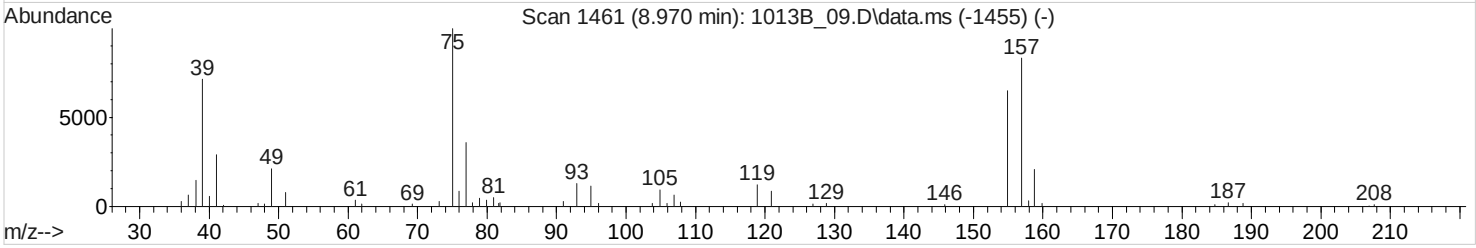






TIC: 1013B_04.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.007min (+0.037) 0.0621295 ppb m

response 58

Ion	Exp%	Act%
157.00	100	100
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:59:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	438952	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	776187	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.594	79	131367	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	290598	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	225637	41.0136495 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.53%		
46) a,a,a-Trifluorotoluene	4.803	146	419853	42.2277670 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.57%		
50) TOLUENE-D8	5.259	98	1015678	41.6819518 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.20%		
68) 4-BROMOFLUOROBENZENE	7.139	95	346878	41.3884688 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.47%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-4129218m	Below Cal		
3) PROPENE	1.542	41	2861	1.2703661 ppb	#	71
4) DICHLORODIFLUOROMETHANE	1.591	85	5957	1.1043630 ppb		90
5) CHLOROMETHANE	1.731	50	10080	1.0347979 ppb		96
6) VINYL CHLORIDE	1.810	62	10192	1.0240892 ppb		92
7) 1,3-BUTADIENE	1.816	39	8408	1.0015648 ppb		95
8) BROMOMETHANE	2.053	94	5701	0.9315070 ppb		96
9) CHLOROETHANE	2.138	64	7436	1.1852337 ppb	#	89
10) TRICHLOROFLUOROMETHANE	2.224	101	9730	1.0094005 ppb		98
11) DICHLOROFLUOROMETHANE	2.260	67	14213	0.9919231 ppb		95
12) ETHYL ETHER	2.412	59	6458	1.0364508 ppb		95
13) ACROLEIN	2.753	56	3591	4.2813281 ppb		89
14) 1,1-DICHLOROETHENE	2.546	61	12176	1.0199294 ppb		99
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	6544	0.9769960 ppb		96
16) ACETONE	2.917	43	20199	6.3113729 ppb		95
17) IODOMETHANE	2.643	142	50181	5.2322674 ppb		100
18) CARBON DISULFIDE	2.583	76	26352	1.0375275 ppb	#	86
19) METHYLENE CHLORIDE	2.893	84	7921	1.0983915 ppb		98
20) ACRYLONITRILE	3.373	53	8263	3.9710464 ppb		87
21) n-Hexane	3.021	56	9398	1.1076744 ppb		97
22) TRANS-1,2-DICHLOROETHENE	2.984	96	7150	1.0024713 ppb		91
23) METHYL TERT-BUTYL ETHER	3.039	73	17309	0.9808590 ppb		94
24) 1,1-DICHLOROETHANE	3.331	63	14307	0.9700394 ppb		97
25) VINYL ACETATE	3.453	43	61594	4.7932400 ppb		99
26) DI-ISOPROPYL ETHER	3.240	45	27449	0.9674331 ppb		95
27) 2,2-Dichloropropane	3.696	77	8880	1.0133576 ppb		95
28) CIS-1,2-DICHLOROETHENE	3.629	96	7544	1.0080194 ppb		94
29) 2-BUTANONE (MEK)	3.945	43	16792	4.5095579 ppb		92
30) BROMOCHLOROMETHANE	3.745	130	3502	0.9414757 ppb		95
31) TETRAHYDROFURAN	3.878	42	2154	1.1357228 ppb		93
32) CHLOROFORM	3.769	83	12142	0.9857974 ppb		99
34) 1,1,1-TRICHLOROETHANE	3.903	97	9426	0.9950440 ppb		97
35) CARBON TETRACHLORIDE	3.866	117	8676	1.1027151 ppb		85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:59:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	10732	1.0384769 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	37681	1.0166139 ppb		100
38) HEPTANE	4.055	43	17185	0.9830872 ppb	#	100
39) BENZENE	4.110	78	33287	1.0572062 ppb	#	78
40) 1,2-DICHLOROETHANE	4.219	62	8878	1.0357636 ppb	#	92
42) TRICHLOROETHENE	4.432	130	6736	1.0032515 ppb		96
43) 1,2-DICHLOROPROPANE	4.742	62	5806	0.9788970 ppb		93
44) DIBROMOMETHANE	4.688	93	3435	0.9907953 ppb		96
45) BROMODICHLOROMETHANE	4.767	83	8602	0.9604802 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.089	63	13114	4.4007515 ppb	#	98
48) CIS-1,3-DICHLOROPROPENE	5.144	75	10655	0.9009618 ppb	#	93
49) 4-METHYL-2-PENTANONE (...	5.521	43	27903	4.5133239 ppb		93
51) TOLUENE	5.296	91	34793	1.0859265 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	8338	0.8108161 ppb	#	70
54) 1,1,2-TRICHLOROETHANE	5.655	97	5449	1.0746452 ppb		97
55) TETRACHLOROETHENE	5.545	164	4809	0.9827337 ppb		97
56) 1,3-Dichloropropane	5.843	76	10018	0.9985577 ppb		98
57) 2-HEXANONE	6.075	58	10635	4.2229881 ppb		83
58) CHLORODIBROMOMETHANE	5.783	129	4889	0.9690872 ppb		96
59) 1,2-DIBROMOETHANE	5.959	107	4531	0.9512617 ppb		99
60) CHLOROBENZENE	6.300	112	16444	0.9317053 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	5341	1.0174695 ppb	#	92
62) ETHYLBENZENE	6.300	106	9777	0.9685871 ppb		99
63) M&P-XYLENE	6.391	106	25559	2.0368186 ppb		95
64) O-XYLENE	6.707	106	11458	0.9617421 ppb		99
65) STYRENE	6.750	104	14578	0.7794740 ppb	#	85
66) Bromoform	6.780	173	2305	0.8264719 ppb		96
67) Isopropylbenzene	6.920	105	31288	0.9732430 ppb		99
69) Bromobenzene	7.224	77	14776	1.0029529 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.273	83	6540	0.9957152 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.389	110	1591	0.9581898 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.419	53	1117	0.7341097 ppb	#	65
73) n-Propylbenzene	7.224	91	39259	0.9680458 ppb		99
74) 4-ETHYLTOLUENE	7.303	105	28865	0.9211515 ppb		100
75) 2-Chlorotoluene	7.358	126	6676	0.9410766 ppb		86
76) 4-Chlorotoluene	7.480	91	22333	0.9844662 ppb		98
77) 1,3,5-Trimethylbenzene	7.364	105	25830	0.9719632 ppb		97
78) tert-Butylbenzene	7.608	119	20227	0.9527881 ppb		96
79) 1,2,4-Trimethylbenzene	7.662	105	24586	0.9559298 ppb		97
80) sec-Butylbenzene	7.741	105	34675	0.9956479 ppb		99
81) 1,3-DICHLOROBENZENE	7.930	146	11418	0.9070196 ppb		98
82) p-Isopropyltoluene	7.845	119	25024	0.9052026 ppb		98
83) DICYCLOPENTADIENE	7.845	66	36731	0.9659236 ppb		99
85) 1,4-DICHLOROBENZENE	7.997	146	12545	1.0263283 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	25043	0.9820414 ppb		97
87) 1,2-DICHLOROBENZENE	8.338	146	11195	1.0163947 ppb		94
88) n-Butylbenzene	8.192	91	23642	0.8630370 ppb		93
89) 1,2-Dibromo-3-chloropr...	8.976	157	708m	0.7946514 ppb		
90) 1,2,4-Trichlorobenzene	9.548	180	6320	0.8731948 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	4408	1.0711988 ppb		97
92) Naphthalene	9.822	128	14643	0.9363437 ppb	#	87
93) 1,2,3-Trichlorobenzene	9.968	180	6648	1.0228925 ppb		97
94) 1-Methylnaphthalene	10.704	142	6266	0.8066880 ppb	#	75
95) 2-Methylnaphthalene	10.826	142	6969	0.9668086 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:59:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

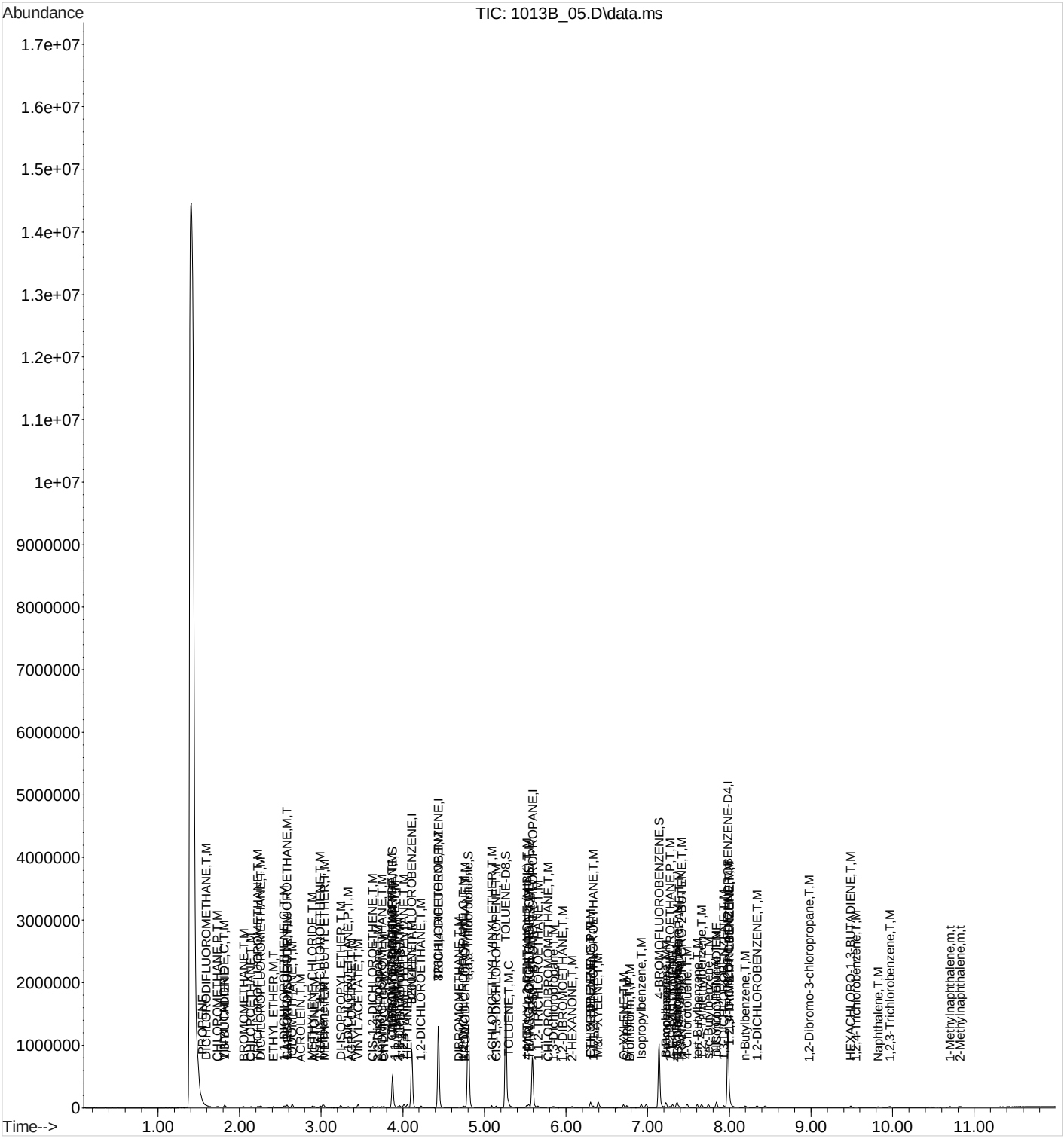
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On : 13 Oct 2015 7:28 pm
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:59:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On    : 13 Oct 2015   7:28 pm
Operator  : 591
Sample    : STD VMS 1 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:23 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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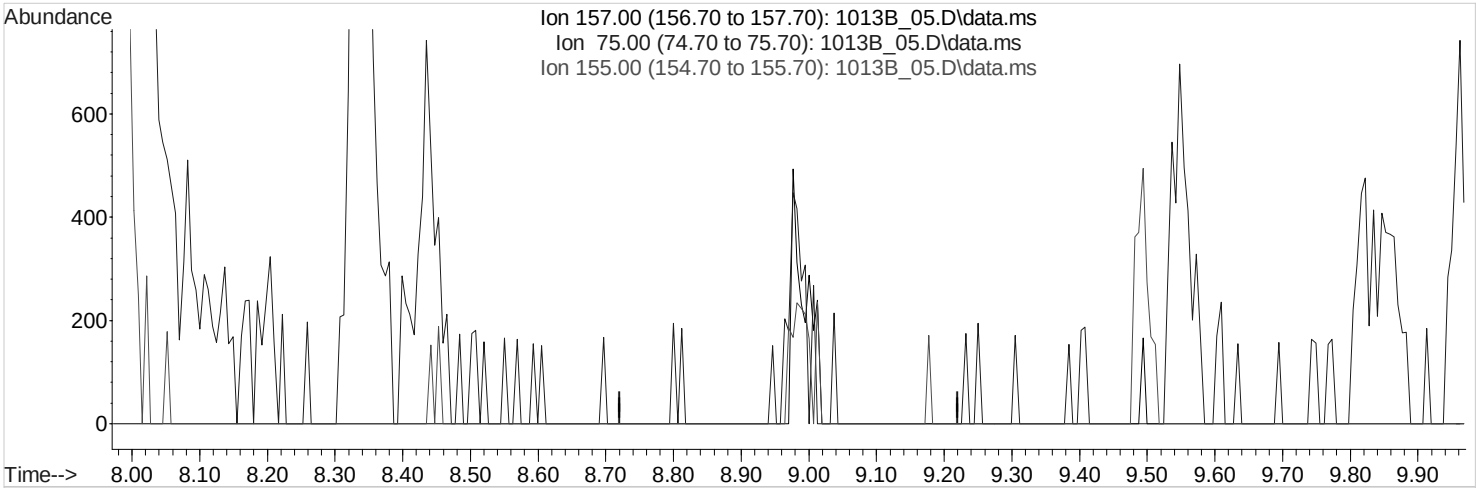

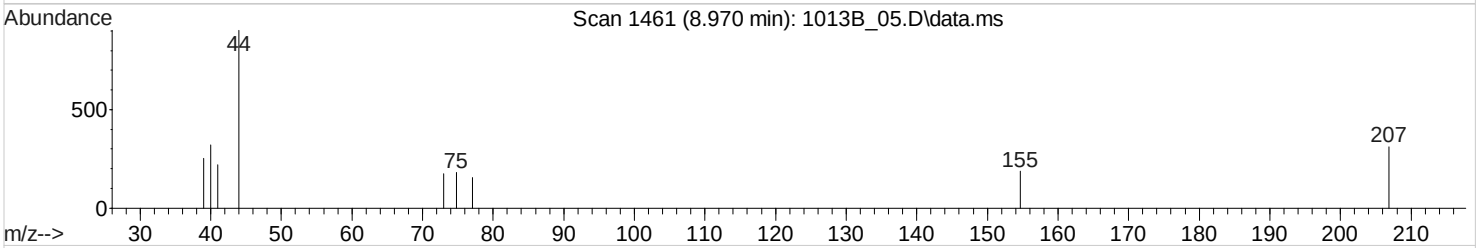

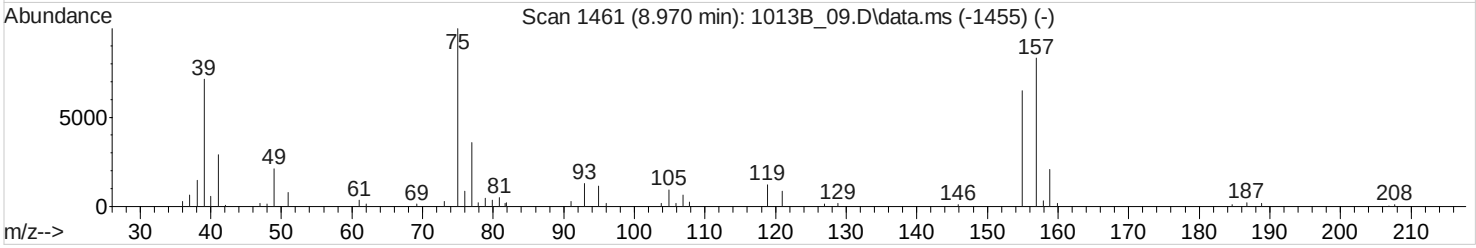

TIC: 1013B_05.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

8.970min (-8.970) 0.0000000 ppb

Qvalue = 0

response 0

Ion	Exp%	Act%
157.00	100	0.00
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 05.D
Acq On    : 13 Oct 2015   7:28 pm
Operator  : 591
Sample    : STD VMS 1 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:23 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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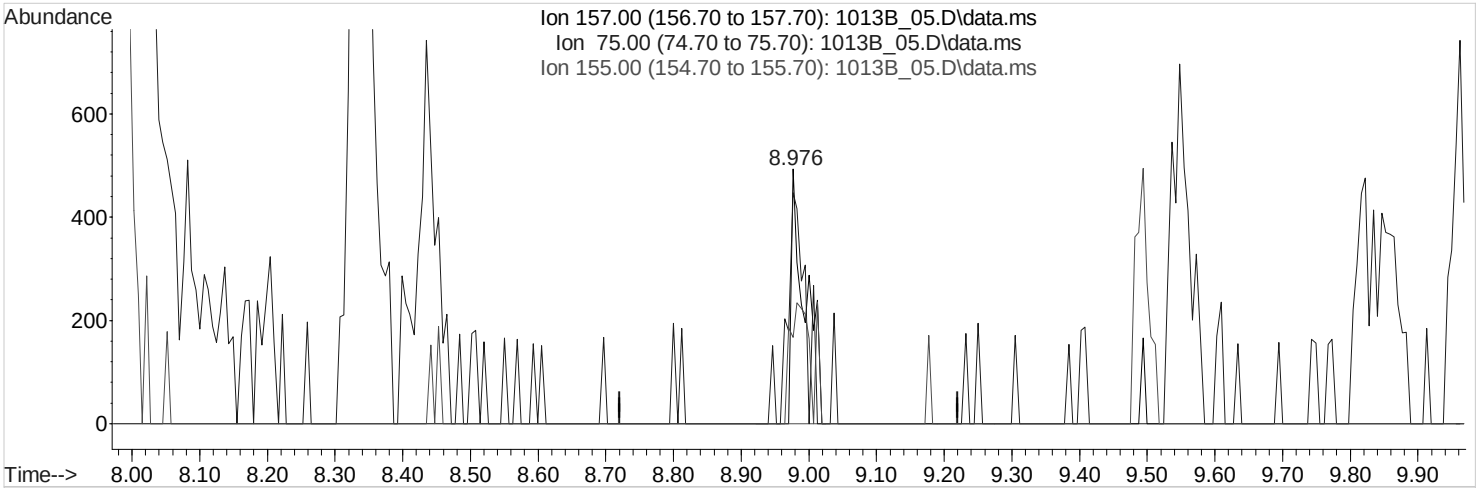
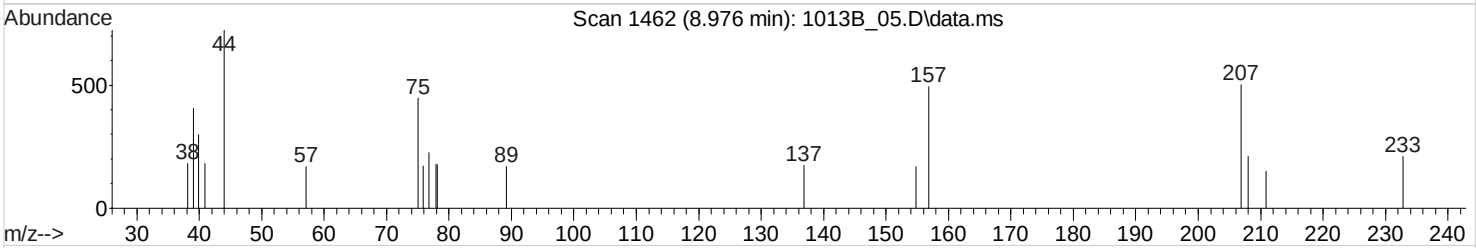
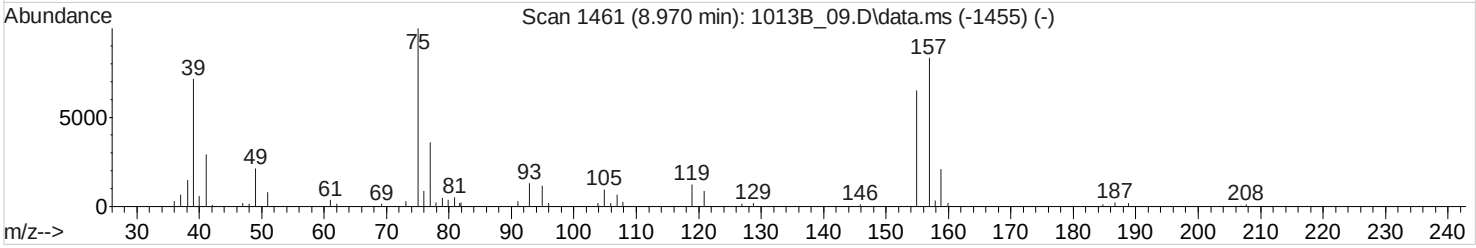






TIC: 1013B_05.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

8.976min (+0.006) 0.7946514 ppb m

response 708

Ion	Exp%	Act%
157.00	100	100
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:00:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	462255	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.438	114	820365	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.594	79	138892	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	304327	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.99
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	246508	42.5485271	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 106.37%			
46) a,a,a-Trifluorotoluene	4.803	146	447318	42.5673361	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.42%			
50) TOLUENE-D8	5.259	98	1087352	42.2203083	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.55%			
68) 4-BROMOFLUOROBENZENE	7.139	95	371497	41.9244104	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.81%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-3868790m	Below Cal		
3) PROPENE	1.548	41	4667	1.9678149	ppb #	88
4) DICHLORODIFLUOROMETHANE	1.597	85	10553	1.8577856	ppb #	70
5) CHLOROMETHANE	1.737	50	20670	2.0149808	ppb	94
6) VINYL CHLORIDE	1.816	62	20928	1.9968319	ppb	95
7) 1,3-BUTADIENE	1.822	39	18379	2.0789480	ppb	90
8) BROMOMETHANE	2.053	94	11741	1.8216947	ppb	100
9) CHLOROETHANE	2.144	64	14058	2.1277645	ppb	95
10) TRICHLOROFLUOROMETHANE	2.223	101	19967	1.9669754	ppb	99
11) DICHLOROFLUOROMETHANE	2.266	67	28980	1.9205518	ppb	95
12) ETHYL ETHER	2.412	59	13398	2.0418603	ppb	98
13) ACROLEIN	2.753	56	10309	11.6711880	ppb	97
14) 1,1-DICHLOROETHENE	2.552	61	25378	2.0186372	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	14381	2.0387971	ppb	99
16) ACETONE	2.917	43	40439	11.9985784	ppb	99
17) IODOMETHANE	2.649	142	99136	9.8156129	ppb	98
18) CARBON DISULFIDE	2.582	76	50993	1.9064790	ppb #	90
19) METHYLENE CHLORIDE	2.893	84	16203	2.1335754	ppb	96
20) ACRYLONITRILE	3.367	53	19565	8.9285817	ppb	98
21) n-Hexane	3.020	56	18464	2.0665119	ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.984	96	14753	1.9641817	ppb	94
23) METHYL TERT-BUTYL ETHER	3.039	73	37135	1.9982666	ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	31267	2.0130865	ppb	99
25) VINYL ACETATE	3.452	43	125759	9.2931993	ppb	100
26) DI-ISOPROPYL ETHER	3.233	45	59894	2.0045328	ppb	98
27) 2,2-Dichloropropane	3.696	77	18772	2.0342097	ppb	95
28) CIS-1,2-DICHLOROETHENE	3.629	96	15427	1.9574204	ppb	99
29) 2-BUTANONE (MEK)	3.939	43	36924	9.4162006	ppb	95
30) BROMOCHLOROMETHANE	3.744	130	7273	1.8567009	ppb	87
31) TETRAHYDROFURAN	3.884	42	3770	1.8875715	ppb #	82
32) CHLOROFORM	3.769	83	25572	1.9715036	ppb	97
34) 1,1,1-TRICHLOROETHANE	3.902	97	19294	1.9340716	ppb	97
35) CARBON TETRACHLORIDE	3.866	117	15984	1.9291441	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:00:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	22305	2.0495279 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	76517	1.9603200 ppb		99
38) HEPTANE	4.055	43	33593	1.8248480 ppb	#	93
39) BENZENE	4.109	78	67003	2.0207599 ppb	#	86
40) 1,2-DICHLOROETHANE	4.219	62	18151	2.0108584 ppb		97
42) TRICHLOROETHENE	4.432	130	13744	1.9367792 ppb		97
43) 1,2-DICHLOROPROPANE	4.742	62	12295	1.9613169 ppb		98
44) DIBROMOMETHANE	4.687	93	7038	1.9207273 ppb		96
45) BROMODICHLOROMETHANE	4.766	83	18849	1.9912993 ppb		94
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	27297	8.6669407 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.144	75	23424	1.8740157 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.515	43	63409	9.7041108 ppb		98
51) TOLUENE	5.296	91	70942	2.0949382 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	17409	1.6017456 ppb	#	67
54) 1,1,2-TRICHLOROETHANE	5.655	97	10903	2.0337772 ppb		97
55) TETRACHLOROETHENE	5.545	164	10670	2.0623127 ppb		98
56) 1,3-Dichloropropane	5.843	76	21555	2.0321195 ppb		96
57) 2-HEXANONE	6.068	58	21819	8.1945715 ppb		93
58) CHLORODIBROMOMETHANE	5.782	129	9816	1.8402907 ppb		100
59) 1,2-DIBROMOETHANE	5.959	107	9172	1.8212898 ppb		90
60) CHLOROBENZENE	6.299	112	36993	1.9824384 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	10672	1.9228866 ppb	#	98
62) ETHYLBENZENE	6.299	106	21155	1.9822349 ppb		97
63) M&P-XYLENE	6.391	106	51888	3.9109700 ppb		99
64) O-XYLENE	6.701	106	24619	1.9544711 ppb		99
65) STYRENE	6.744	104	35269	1.7836345 ppb		97
66) Bromoform	6.774	173	5142	1.7438066 ppb		96
67) Isopropylbenzene	6.920	105	66189	1.9473247 ppb		99
69) Bromobenzene	7.224	77	31634	2.0308920 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	13970	2.0116983 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.382	110	3664	2.0871126 ppb		94
72) TRANS-1,4-DICHLORO-2-B...	7.419	53	3260	2.0264432 ppb	#	84
73) n-Propylbenzene	7.224	91	83071	1.9373815 ppb		100
74) 4-ETHYLTOLUENE	7.303	105	62167	1.8764130 ppb		99
75) 2-Chlorotoluene	7.358	126	14795	1.9725712 ppb		92
76) 4-Chlorotoluene	7.480	91	46092	1.9217122 ppb		100
77) 1,3,5-Trimethylbenzene	7.358	105	55258	1.9666616 ppb		99
78) tert-Butylbenzene	7.607	119	43454	1.9359924 ppb		99
79) 1,2,4-Trimethylbenzene	7.662	105	52238	1.9210281 ppb		95
80) sec-Butylbenzene	7.741	105	72136	1.9590722 ppb		100
81) 1,3-DICHLOROBENZENE	7.930	146	25367	1.9059204 ppb		99
82) p-Isopropyltoluene	7.845	119	54216	1.8549218 ppb		97
83) DICYCLOPENTADIENE	7.845	66	77722	1.9331389 ppb		99
85) 1,4-DICHLOROBENZENE	7.991	146	26166	2.0441140 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	56176	2.1035187 ppb		98
87) 1,2-DICHLOROBENZENE	8.337	146	24473	2.1216691 ppb		97
88) n-Butylbenzene	8.185	91	52272	1.8220758 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.982	157	1592	1.7062341 ppb		88
90) 1,2,4-Trichlorobenzene	9.536	180	13259	1.7492705 ppb		95
91) HEXACHLORO-1,3-BUTADIENE	9.493	225	8341	1.9355248 ppb		96
92) Naphthalene	9.810	128	31596	1.9292543 ppb		98
93) 1,2,3-Trichlorobenzene	9.962	180	13347	1.9609874 ppb		96
94) 1-Methylnaphthalene	10.692	142	15085	1.8544395 ppb		91
95) 2-Methylnaphthalene	10.820	142	13343	1.7675660 ppb	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:00:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

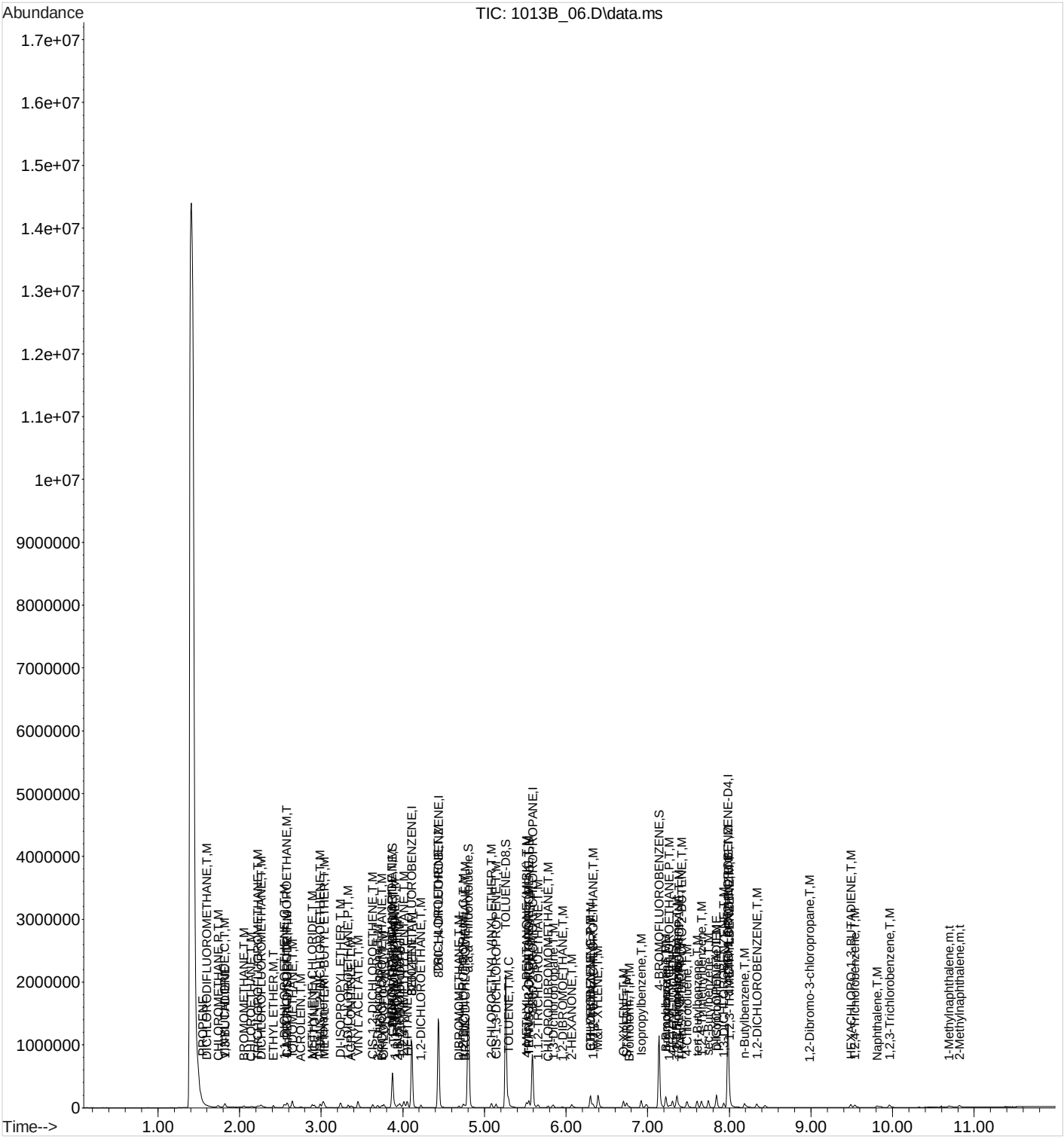
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 06.D
Acq On : 13 Oct 2015 7:48 pm
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:00:38 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:01:41 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	467811	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	832022	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	141028	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	307342	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	249601	42.5707226 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 106.43%		
46) a,a,a-Trifluorotoluene	4.803	146	462926	43.4354159 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.59%		
50) TOLUENE-D8	5.259	98	1127098	43.1504407 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.88%		
68) 4-BROMOFLUOROBENZENE	7.139	95	378120	42.0255288 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.06%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-3241317m	Below Cal	
3) PROPENE	1.554	41	11727	4.8858998 ppb	93
4) DICHLORODIFLUOROMETHANE	1.597	85	26853	4.6711482 ppb	93
5) CHLOROMETHANE	1.737	50	50552	4.8694507 ppb	98
6) VINYL CHLORIDE	1.816	62	50169	4.7299921 ppb	99
7) 1,3-BUTADIENE	1.816	39	43291	4.8387208 ppb	96
8) BROMOMETHANE	2.047	94	29774	4.5647698 ppb	99
9) CHLOROETHANE	2.138	64	32773	4.9014820 ppb	96
10) TRICHLOROFLUOROMETHANE	2.224	101	47389	4.6129085 ppb	97
11) DICHLOROFLUOROMETHANE	2.260	67	71889	4.7076187 ppb	99
12) ETHYL ETHER	2.412	59	31064	4.6779396 ppb	99
13) ACROLEIN	2.753	56	20819	23.2900048 ppb	96
14) 1,1-DICHLOROETHENE	2.546	61	60771	4.7764854 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	34771	4.8709456 ppb	95
16) ACETONE	2.917	43	80209	23.5160122 ppb	99
17) IODOMETHANE	2.643	142	246159	24.0831304 ppb	99
18) CARBON DISULFIDE	2.583	76	123881	4.5765409 ppb	98
19) METHYLENE CHLORIDE	2.893	84	35672	4.6414237 ppb	96
20) ACRYLONITRILE	3.361	53	48502	21.8712426 ppb	97
21) n-Hexane	3.021	56	44178	4.8857287 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.984	96	35818	4.7120929 ppb	99
23) METHYL TERT-BUTYL ETHER	3.033	73	85245	4.5326284 ppb	92
24) 1,1-DICHLOROETHANE	3.331	63	76932	4.8943433 ppb	99
25) VINYL ACETATE	3.446	43	300685	21.9557931 ppb	99
26) DI-ISOPROPYL ETHER	3.233	45	140809	4.6566270 ppb	99
27) 2,2-Dichloropropane	3.696	77	45092	4.8283180 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.629	96	38384	4.8124258 ppb	99
29) 2-BUTANONE (MEK)	3.939	43	84558	21.3075172 ppb	99
30) BROMOCHLOROMETHANE	3.744	130	18126	4.5723717 ppb	97
31) TETRAHYDROFURAN	3.878	42	9289	4.5955998 ppb	96
32) CHLOROFORM	3.769	83	61957	4.7199179 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.903	97	48984	4.8519431 ppb	98
35) CARBON TETRACHLORIDE	3.866	117	39331	4.6905674 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:01:41 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	53294	4.8388383 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	189401	4.7947117 ppb		100
38) HEPTANE	4.049	43	87743	4.7097904 ppb	#	98
39) BENZENE	4.110	78	163292	4.8662740 ppb		94
40) 1,2-DICHLOROETHANE	4.219	62	43411	4.7521693 ppb		99
42) TRICHLOROETHENE	4.432	130	34522	4.7966190 ppb		98
43) 1,2-DICHLOROPROPANE	4.742	62	31228	4.9117439 ppb		98
44) DIBROMOMETHANE	4.681	93	17329	4.6629662 ppb		97
45) BROMODICHLOROMETHANE	4.767	83	45238	4.7122023 ppb		96
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	67752	21.2102281 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.144	75	56267	4.4385206 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.515	43	141775	21.3932522 ppb		99
51) TOLUENE	5.290	91	167682	4.8823233 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	45974	4.1706554 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.655	97	25646	4.7113880 ppb		99
55) TETRACHLOROETHENE	5.545	164	24750	4.7112613 ppb		95
56) 1,3-Dichloropropane	5.837	76	51371	4.7697005 ppb		99
57) 2-HEXANONE	6.062	58	55296	20.4529996 ppb		95
58) CHLORODIBROMOMETHANE	5.776	129	23616	4.3604379 ppb		99
59) 1,2-DIBROMOETHANE	5.953	107	24185	4.7296933 ppb		98
60) CHLOROBENZENE	6.294	112	87508	4.6184877 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.324	133	25660	4.5534062 ppb	#	99
62) ETHYLBENZENE	6.294	106	51268	4.7310807 ppb		99
63) M&P-XYLENE	6.391	106	126921	9.4215622 ppb		97
64) O-XYLENE	6.701	106	59893	4.6828128 ppb		98
65) STYRENE	6.738	104	87451	4.3556140 ppb		100
66) Bromoform	6.774	173	12299	4.1077871 ppb		99
67) Isopropylbenzene	6.920	105	162745	4.7155471 ppb		99
69) Bromobenzene	7.224	77	73823	4.6676287 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	32308	4.5819296 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.382	110	7770	4.3589644 ppb		95
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	4876	2.9850555 ppb	#	88
73) n-Propylbenzene	7.218	91	201945	4.6384267 ppb		99
74) 4-ETHYLTOLUENE	7.297	105	155910	4.6346228 ppb		99
75) 2-Chlorotoluene	7.352	126	35045	4.6016721 ppb		98
76) 4-Chlorotoluene	7.474	91	112494	4.6191709 ppb		99
77) 1,3,5-Trimethylbenzene	7.358	105	136702	4.7916075 ppb		98
78) tert-Butylbenzene	7.608	119	106644	4.6793142 ppb		98
79) 1,2,4-Trimethylbenzene	7.656	105	127081	4.6025624 ppb		100
80) sec-Butylbenzene	7.741	105	176748	4.7274264 ppb		99
81) 1,3-DICHLOROBENZENE	7.930	146	62563	4.6294043 ppb		99
82) p-Isopropyltoluene	7.845	119	133766	4.5072925 ppb		99
83) DICYCLOPENTADIENE	7.845	66	189127	4.6328102 ppb		100
85) 1,4-DICHLOROBENZENE	7.997	146	61796	4.7802071 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	130859	4.8519657 ppb		99
87) 1,2-DICHLOROBENZENE	8.332	146	58122	4.9894143 ppb		98
88) n-Butylbenzene	8.179	91	136956	4.7271237 ppb		100
89) 1,2-Dibromo-3-chloropr...	8.976	157	3791	4.0231655 ppb		95
90) 1,2,4-Trichlorobenzene	9.530	180	34891	4.5580406 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	22389	5.1443901 ppb		96
92) Naphthalene	9.804	128	74159	4.4837337 ppb		99
93) 1,2,3-Trichlorobenzene	9.956	180	32643	4.7489738 ppb		99
94) 1-Methylnaphthalene	10.686	142	34516	4.2015194 ppb		99
95) 2-Methylnaphthalene	10.814	142	34545	4.5313325 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:01:41 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

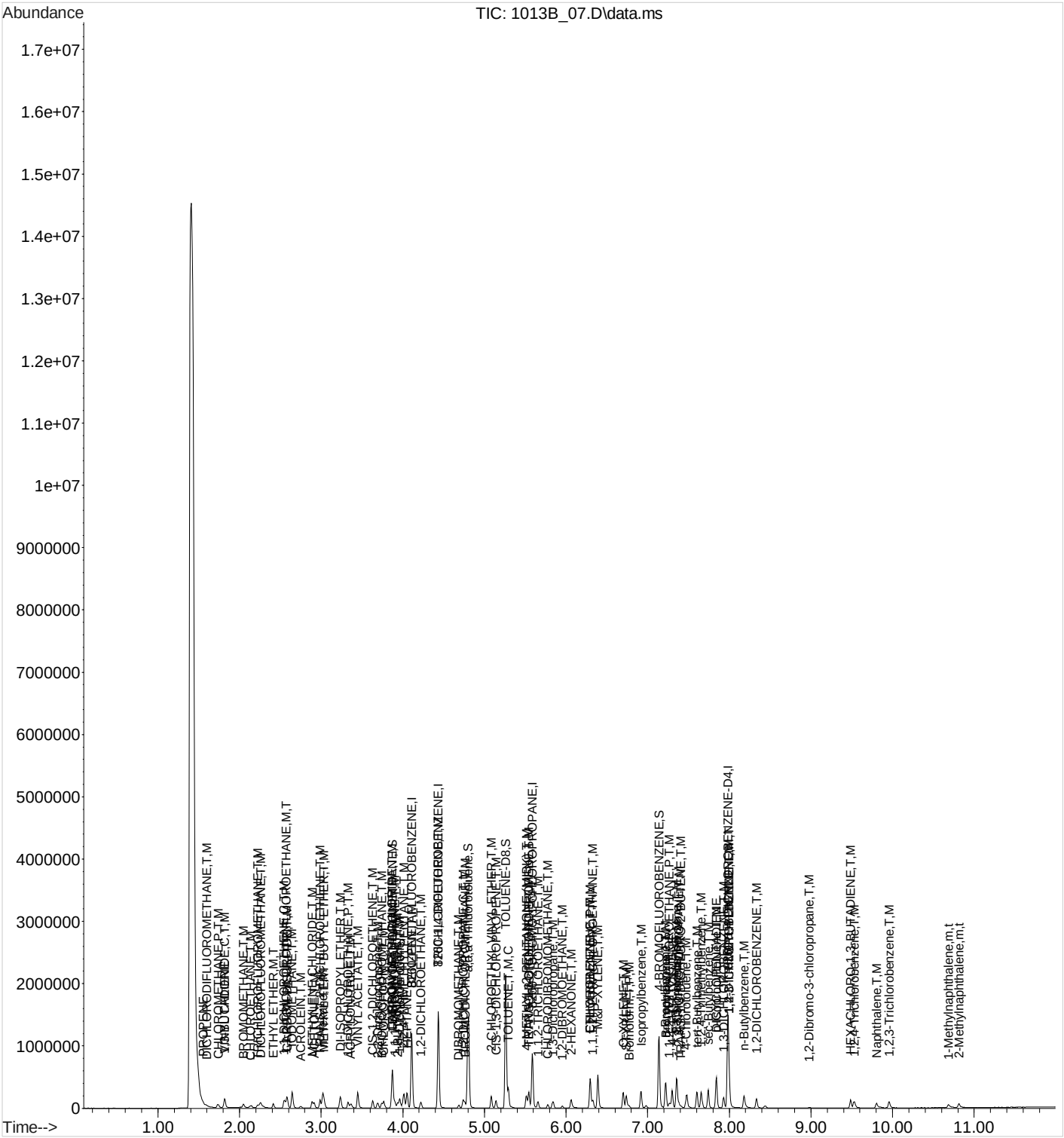
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 07.D
Acq On : 13 Oct 2015 8:09 pm
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:01:41 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 08.D
Acq On : 13 Oct 2015 8:29 pm
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	453947	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	807377	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	138085	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	309740	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	253822	44.6127754 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 111.53%		
46) a,a,a-Trifluorotoluene	4.803	146	457766	44.2623411 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.66%		
50) TOLUENE-D8	5.259	98	1126396	44.4399020 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.10%		
68) 4-BROMOFLUOROBENZENE	7.139	95	390311	44.3050439 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 110.76%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-2184289m	Below Cal	
3) PROPENE	1.548	41	23926	10.2728989 ppb	100
4) DICHLORODIFLUOROMETHANE	1.591	85	57498	10.3073933 ppb	97
5) CHLOROMETHANE	1.731	50	103065	10.2310007 ppb	99
6) VINYL CHLORIDE	1.810	62	105331	10.2340246 ppb	99
7) 1,3-BUTADIENE	1.816	39	89066	10.2591215 ppb	98
8) BROMOMETHANE	2.047	94	61949	9.7877140 ppb	96
9) CHLOROETHANE	2.138	64	66055	10.1808066 ppb	99
10) TRICHLOROFLUOROMETHANE	2.223	101	102908	10.3231375 ppb	99
11) DICHLOROFLUOROMETHANE	2.260	67	148434	10.0169962 ppb	100
12) ETHYL ETHER	2.406	59	66894	10.3812507 ppb	98
13) ACROLEIN	2.747	56	51826	59.7479050 ppb	96
14) 1,1-DICHLOROETHENE	2.546	61	124745	10.1041665 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	71748	10.3578872 ppb	97
16) ACETONE	2.911	43	182401	55.1103373 ppb	99
17) IODOMETHANE	2.643	142	492790	49.6848958 ppb	100
18) CARBON DISULFIDE	2.576	76	258473	9.8404081 ppb	98
19) METHYLENE CHLORIDE	2.887	84	76980	10.3220733 ppb	99
20) ACRYLONITRILE	3.361	53	108759	50.5410541 ppb	99
21) n-Hexane	3.014	56	88116	10.0425350 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.984	96	75640	10.2548499 ppb	97
23) METHYL TERT-BUTYL ETHER	3.033	73	187330	10.2648784 ppb	98
24) 1,1-DICHLOROETHANE	3.331	63	153168	10.0420118 ppb	100
25) VINYL ACETATE	3.446	43	659473	49.6249022 ppb	99
26) DI-ISOPROPYL ETHER	3.233	45	295759	10.0796230 ppb	99
27) 2,2-Dichloropropane	3.690	77	91337	10.0787898 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.629	96	78811	10.1827701 ppb	100
29) 2-BUTANONE (MEK)	3.933	43	206098	53.5201353 ppb	100
30) BROMOCHLOROMETHANE	3.744	130	38448	9.9949031 ppb	100
31) TETRAHYDROFURAN	3.872	42	20639	10.5226996 ppb	97
32) CHLOROFORM	3.769	83	127128	9.9804600 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.896	97	100928	10.3023999 ppb	98
35) CARBON TETRACHLORIDE	3.866	117	81853	10.0598215 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 08.D
Acq On : 13 Oct 2015 8:29 pm
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	107230	10.0333134 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	390889	10.1976233 ppb		100
38) HEPTANE	4.049	43	178811	9.8911915 ppb	#	100
39) BENZENE	4.103	78	330360	10.1457553 ppb		96
40) 1,2-DICHLOROETHANE	4.219	62	90318	10.1890033 ppb		99
42) TRICHLOROETHENE	4.432	130	69900	10.0086358 ppb		97
43) 1,2-DICHLOROPROPANE	4.742	62	62169	10.0768283 ppb		99
44) DIBROMOMETHANE	4.681	93	36330	10.0742471 ppb		99
45) BROMODICHLOROMETHANE	4.760	83	95124	10.2110187 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	151986	49.0326358 ppb		98
48) CIS-1,3-DICHLOROPROPENE	5.144	75	119914	9.7479392 ppb		97
49) 4-METHYL-2-PENTANONE (...	5.509	43	336103	52.2646421 ppb		100
51) TOLUENE	5.290	91	333236	9.9988590 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	99870	9.3365302 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.655	97	54829	10.2872290 ppb		99
55) TETRACHLOROETHENE	5.545	164	52818	10.2684001 ppb		97
56) 1,3-Dichloropropane	5.837	76	106252	10.0755567 ppb		99
57) 2-HEXANONE	6.056	58	136688	51.6359921 ppb		99
58) CHLORODIBROMOMETHANE	5.776	129	53674	10.1215394 ppb		98
59) 1,2-DIBROMOETHANE	5.953	107	51253	10.2368190 ppb		98
60) CHLOROBENZENE	6.293	112	185291	9.9876933 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	56616	10.2607184 ppb	#	100
62) ETHYLBENZENE	6.293	106	106103	10.0000112 ppb		99
63) M&P-XYLENE	6.391	106	262518	19.9024876 ppb		99
64) O-XYLENE	6.695	106	123498	9.8616480 ppb		98
65) STYRENE	6.737	104	192989	9.8169370 ppb		100
66) Bromoform	6.774	173	29703	10.1320489 ppb		98
67) Isopropylbenzene	6.914	105	334005	9.8840798 ppb		98
69) Bromobenzene	7.224	77	156154	10.0836222 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	72642	10.5216772 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.382	110	17647	10.1109517 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	14065	8.7940169 ppb	#	98
73) n-Propylbenzene	7.218	91	422078	9.9012300 ppb		100
74) 4-ETHYLTOLUENE	7.297	105	328683	9.9787583 ppb		100
75) 2-Chlorotoluene	7.352	126	74034	9.9284090 ppb		99
76) 4-Chlorotoluene	7.474	91	239182	10.0304867 ppb		99
77) 1,3,5-Trimethylbenzene	7.358	105	279039	9.9891863 ppb		99
78) tert-Butylbenzene	7.601	119	225627	10.1110368 ppb		100
79) 1,2,4-Trimethylbenzene	7.656	105	274270	10.1450972 ppb		99
80) sec-Butylbenzene	7.741	105	373250	10.1959788 ppb		100
81) 1,3-DICHLOROBENZENE	7.930	146	134411	10.1578361 ppb		99
82) p-Isopropyltoluene	7.845	119	288713	9.9356249 ppb		99
83) DICYCLOPENTADIENE	7.839	66	402721	10.0752096 ppb		99
85) 1,4-DICHLOROBENZENE	7.997	146	133020	10.2100510 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	275197	10.1247065 ppb		99
87) 1,2-DICHLOROBENZENE	8.331	146	122179	10.4071113 ppb		100
88) n-Butylbenzene	8.179	91	290462	9.9478642 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.970	157	10178	10.7176897 ppb		100
90) 1,2,4-Trichlorobenzene	9.530	180	78494	10.1747992 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	46093	10.5089371 ppb		98
92) Naphthalene	9.798	128	172401	10.3428529 ppb		99
93) 1,2,3-Trichlorobenzene	9.956	180	73286	10.5792614 ppb		99
94) 1-Methylnaphthalene	10.680	142	83664	10.1052988 ppb		99
95) 2-Methylnaphthalene	10.807	142	74830	9.7395994 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 08.D
Acq On : 13 Oct 2015 8:29 pm
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

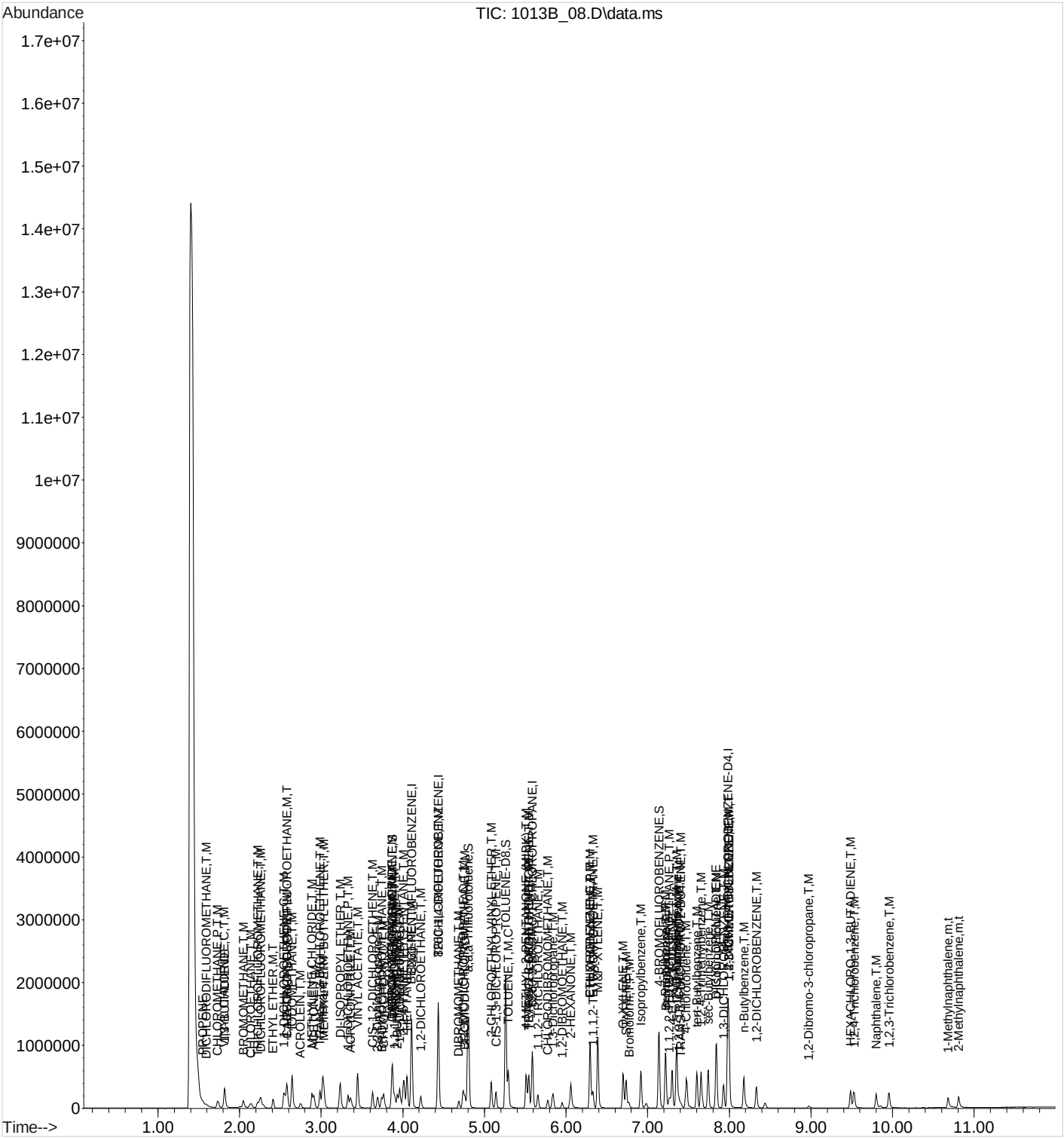
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 08.D
Acq On : 13 Oct 2015 8:29 pm
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:29 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 09.D
Acq On : 13 Oct 2015 8:49 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	458266	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	811473	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	139606	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.978	152	319158	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.99
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	258461	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	4.803	146	467756	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%			
50) TOLUENE-D8	5.259	98	1146379	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%			
68) 4-BROMOFLUOROBENZENE	7.139	95	400800	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	2661497m	10.0000000	ppm	
3) PROPENE	1.554	41	58780	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.591	85	140785	25.0000000	ppb	100
5) CHLOROMETHANE	1.737	50	254241	25.0000000	ppb	100
6) VINYL CHLORIDE	1.816	62	259754	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.816	39	219106	25.0000000	ppb	100
8) BROMOMETHANE	2.047	94	159737	25.0000000	ppb	100
9) CHLOROETHANE	2.138	64	163748	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.223	101	251588	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.260	67	373980	25.0000000	ppb	100
12) ETHYL ETHER	2.412	59	162626	25.0000000	ppb	100
13) ACROLEIN	2.747	56	109458	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.546	61	311584	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	174820	25.0000000	ppb	100
16) ACETONE	2.911	43	417654	125.0000000	ppb	100
17) IODOMETHANE	2.643	142	1251584	125.0000000	ppb	100
18) CARBON DISULFIDE	2.576	76	662910	25.0000000	ppb	100
19) METHYLENE CHLORIDE	2.887	84	188219	25.0000000	ppb	100
20) ACRYLONITRILE	3.361	53	271546	125.0000000	ppb	100
21) n-Hexane	3.014	56	221444	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.984	96	186155	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.033	73	460581	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.331	63	384946	25.0000000	ppb	100
25) VINYL ACETATE	3.446	43	1676949	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.233	45	740536	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.690	77	228713	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.629	96	195332	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	3.933	43	485936	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.744	130	97002	24.9788843	ppb	100
31) TETRAHYDROFURAN	3.872	42	49501	25.0000000	ppb	100
32) CHLOROFORM	3.769	83	321472	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.902	97	247244	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	3.866	117	205351	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 09.D
Acq On : 13 Oct 2015 8:49 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	269727	25.0000000	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	967402	25.0000000	ppb		100
38) HEPTANE	4.048	43	456245	25.0000000	ppb	#	100
39) BENZENE	4.109	78	820516	24.9615469	ppb		100
40) 1,2-DICHLOROETHANE	4.219	62	223715	25.0000000	ppb		100
42) TRICHLOROETHENE	4.432	130	175328	24.9776334	ppb		100
43) 1,2-DICHLOROPROPANE	4.742	62	155020	25.0000000	ppb		100
44) DIBROMOMETHANE	4.687	93	90613	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	4.766	83	234077	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	389427	125.0000000	ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.144	75	309097	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.509	43	807754	124.9732340	ppb		100
51) TOLUENE	5.290	91	837412	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	268324	24.9581433	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.655	97	134713	25.0000000	ppb		100
55) TETRACHLOROETHENE	5.545	164	130010	25.0000000	ppb		100
56) 1,3-Dichloropropane	5.837	76	266542	25.0000000	ppb		100
57) 2-HEXANONE	6.056	58	334538	125.0000000	ppb		100
58) CHLORODIBROMOMETHANE	5.776	129	134034	25.0000000	ppb		100
59) 1,2-DIBROMOETHANE	5.953	107	126547	25.0000000	ppb		100
60) CHLOROBENZENE	6.293	112	468907	25.0000000	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.324	133	139463	25.0000000	ppb		100
62) ETHYLBENZENE	6.293	106	268179	25.0000000	ppb		100
63) M&P-XYLENE	6.391	106	666775	50.0000000	ppb		100
64) O-XYLENE	6.695	106	316242	24.9776479	ppb		100
65) STYRENE	6.731	104	506866	25.5022812	ppb		99
66) Bromoform	6.768	173	74097	25.0000000	ppb		100
67) Isopropylbenzene	6.914	105	854111	25.0000000	ppb		100
69) Bromobenzene	7.224	77	391412	25.0000000	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	174502	25.0000000	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.382	110	44114	25.0000000	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	40425	25.0000000	ppb	#	100
73) n-Propylbenzene	7.218	91	1077460	25.0000000	ppb		100
74) 4-ETHYLTOLUENE	7.297	105	832527	25.0000000	ppb		100
75) 2-Chlorotoluene	7.352	126	188473	25.0000000	ppb		100
76) 4-Chlorotoluene	7.474	91	599691	24.8750216	ppb		100
77) 1,3,5-Trimethylbenzene	7.358	105	706045	25.0000000	ppb		100
78) tert-Butylbenzene	7.601	119	564018	25.0000000	ppb		100
79) 1,2,4-Trimethylbenzene	7.656	105	683313	25.0000000	ppb		100
80) sec-Butylbenzene	7.741	105	925270	25.0000000	ppb		100
81) 1,3-DICHLOROBENZENE	7.930	146	334450	25.0000000	ppb		100
82) p-Isopropyltoluene	7.845	119	734461	25.0000000	ppb		100
83) DICYCLOPENTADIENE	7.839	66	1010294	25.0000000	ppb		100
85) 1,4-DICHLOROBENZENE	7.991	146	335612	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	700180	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.331	146	302423	25.0000000	ppb		100
88) n-Butylbenzene	8.173	91	752156	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.970	157	24463	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.524	180	198728	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	112986	25.0000000	ppb		100
92) Naphthalene	9.797	128	429386	25.0000000	ppb		100
93) 1,2,3-Trichlorobenzene	9.950	180	178449	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.680	142	214366	25.1280044	ppb		100
95) 2-Methylnaphthalene	10.807	142	197917	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 09.D
Acq On : 13 Oct 2015 8:49 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

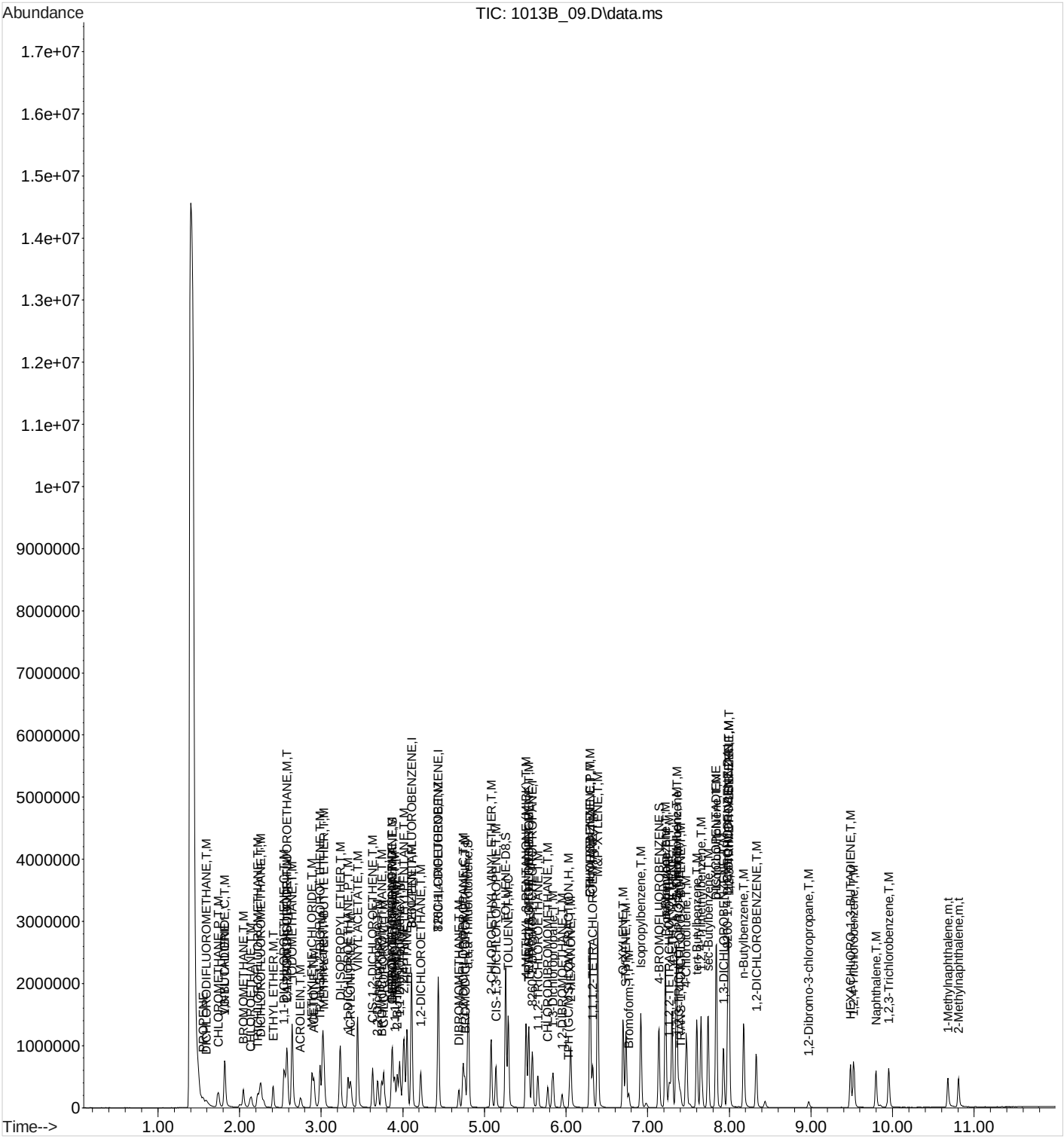
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 09.D
Acq On : 13 Oct 2015 8:49 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:03:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 10.D
Acq On : 13 Oct 2015 9:09 pm
Operator : 591
Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:05:44 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:04:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	455357	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	809075	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	139722	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.979	152	322263	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	271563	47.7158860 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 119.29%		
46) a,a,a-Trifluorotoluene	4.803	146	475873	45.0731500 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.68%		
50) TOLUENE-D8	5.259	98	1172729	45.7888827 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.47%		
68) 4-BROMOFLUOROBENZENE	7.133	95	412535	46.7337595 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 116.83%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	11395173m	Below Cal	
3) PROPENE	1.554	41	89217	34.1585419 ppb	95
4) DICHLORODIFLUOROMETHANE	1.591	85	230612	43.0619791 ppb	98
5) CHLOROMETHANE	1.737	50	398729	40.1822625 ppb	99
6) VINYL CHLORIDE	1.816	62	413559	41.8449450 ppb	100
7) 1,3-BUTADIENE	1.816	39	346029	39.6838915 ppb	98
8) BROMOMETHANE	2.041	94	245950	42.6263352 ppb	100
9) CHLOROETHANE	2.138	64	255101	36.4791444 ppb	100
10) TRICHLOROFLUOROMETHANE	2.218	101	402615	42.1444710 ppb	100
11) DICHLOROFLUOROMETHANE	2.260	67	587846	42.1776394 ppb	98
12) ETHYL ETHER	2.406	59	260152	41.8991576 ppb	100
13) ACROLEIN	2.747	56	189509	209.5286209 ppb	98
14) 1,1-DICHLOROETHENE	2.546	61	494048	41.5582111 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	279502	41.7938091 ppb	99
16) ACETONE	2.911	43	689800	156.4972616 ppb	100
17) IODOMETHANE	2.643	142	2016671	210.5386750 ppb	100
18) CARBON DISULFIDE	2.576	76	1076432	42.5485589 ppb	100
19) METHYLENE CHLORIDE	2.887	84	300057	39.0372833 ppb	99
20) ACRYLONITRILE	3.355	53	447788	245.6705235 ppb	100
21) n-Hexane	3.015	56	346382	39.4139429 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.984	96	294178	40.9484938 ppb	99
23) METHYL TERT-BUTYL ETHER	3.033	73	750134	42.6604343 ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	611470	41.9538658 ppb	100
25) VINYL ACETATE	3.440	43	2825882	232.4859616 ppb	100
26) DI-ISOPROPYL ETHER	3.227	45	1186429	42.1224483 ppb	99
27) 2,2-Dichloropropane	3.690	77	352095	38.1969328 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.629	96	313680	41.3614903 ppb	100
29) 2-BUTANONE (MEK)	3.933	43	813969	233.5502701 ppb	98
30) BROMOCHLOROMETHANE	3.745	130	152910	42.2553278 ppb	98
31) TETRAHYDROFURAN	3.872	42	79971	41.6903099 ppb	100
32) CHLOROFORM	3.769	83	510848	42.2273774 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.903	97	401914	42.7857511 ppb	98
35) CARBON TETRACHLORIDE	3.860	117	326007	40.9437534 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 10.D
Acq On : 13 Oct 2015 9:09 pm
Operator : 591
Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:05:44 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:04:33 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	427724	41.6011392 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	1575287	42.0861482 ppb		100
38) HEPTANE	4.049	43	723360	41.1692299 ppb	#	99
39) BENZENE	4.103	78	1323630	40.7798088 ppb		99
40) 1,2-DICHLOROETHANE	4.219	62	356527	41.3429763 ppb		99
42) TRICHLOROETHENE	4.432	130	275279	41.4187256 ppb		99
43) 1,2-DICHLOROPROPANE	4.742	62	249870	43.3304105 ppb		99
44) DIBROMOMETHANE	4.681	93	149103	44.4084299 ppb		98
45) BROMODICHLOROMETHANE	4.760	83	379969	41.9314273 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	642777	241.3383864 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.138	75	501911	45.2961447 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.509	43	1351896	240.1267337 ppb		100
51) TOLUENE	5.290	91	1336238	38.4061802 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.539	75	429050	49.9047351 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.649	97	218273	41.9374694 ppb		99
55) TETRACHLOROETHENE	5.545	164	207609	41.2299870 ppb		99
56) 1,3-Dichloropropane	5.837	76	433046	41.8199450 ppb		100
57) 2-HEXANONE	6.050	58	589186	284.5220494 ppb		99
58) CHLORODIBROMOMETHANE	5.776	129	220459	44.6731343 ppb		99
59) 1,2-DIBROMOETHANE	5.953	107	208024	43.7164700 ppb		99
60) CHLOROBENZENE	6.294	112	761135	42.5796351 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	231672	44.6050123 ppb	#	99
62) ETHYLBENZENE	6.294	106	442700	43.7840399 ppb		97
63) M&P-XYLENE	6.391	106	1066562	82.6060645 ppb		98
64) O-XYLENE	6.695	106	498582	41.3175180 ppb		97
65) STYRENE	6.732	104	830058	48.6313609 ppb		99
66) Bromoform	6.768	173	122407	44.9462061 ppb		99
67) Isopropylbenzene	6.914	105	1376535	42.9459055 ppb		100
69) Bromobenzene	7.224	77	638630	41.7739765 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	286372	43.9632884 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.383	110	73120	42.7172698 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	66969	51.5840627 ppb	#	97
73) n-Propylbenzene	7.218	91	1743307	43.1512326 ppb		100
74) 4-ETHYLTOLUENE	7.297	105	1364444	44.5400778 ppb		99
75) 2-Chlorotoluene	7.352	126	299196	43.4083551 ppb		97
76) 4-Chlorotoluene	7.474	91	976292	42.9157089 ppb		99
77) 1,3,5-Trimethylbenzene	7.352	105	1145786	42.5022077 ppb		100
78) tert-Butylbenzene	7.602	119	908758	43.4382744 ppb		99
79) 1,2,4-Trimethylbenzene	7.656	105	1098751	42.8241033 ppb		99
80) sec-Butylbenzene	7.741	105	1500610	42.9769770 ppb		100
81) 1,3-DICHLOROBENZENE	7.924	146	536079	44.1528352 ppb		99
82) p-Isopropyltoluene	7.839	119	1182514	44.6056406 ppb		99
83) DICYCLOPENTADIENE	7.839	66	1627916	43.4468195 ppb		99
85) 1,4-DICHLOROBENZENE	7.991	146	539175	39.6591774 ppb	#	71
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	1130085	40.7826622 ppb		100
87) 1,2-DICHLOROBENZENE	8.325	146	502548	41.4287250 ppb		99
88) n-Butylbenzene	8.173	91	1195260	45.3217166 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.970	157	39950	52.1900074 ppb		96
90) 1,2,4-Trichlorobenzene	9.524	180	328793	47.3525358 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	181950	40.3869980 ppb		99
92) Naphthalene	9.792	128	740546	44.2161386 ppb		99
93) 1,2,3-Trichlorobenzene	9.950	180	303773	41.9382102 ppb		100
94) 1-Methylnaphthalene	10.674	142	388240	41.2294367 ppb		100
95) 2-Methylnaphthalene	10.808	142	339654	37.5499798 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 10.D
Acq On : 13 Oct 2015 9:09 pm
Operator : 591
Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:05:44 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:04:33 2015
Response via : Initial Calibration

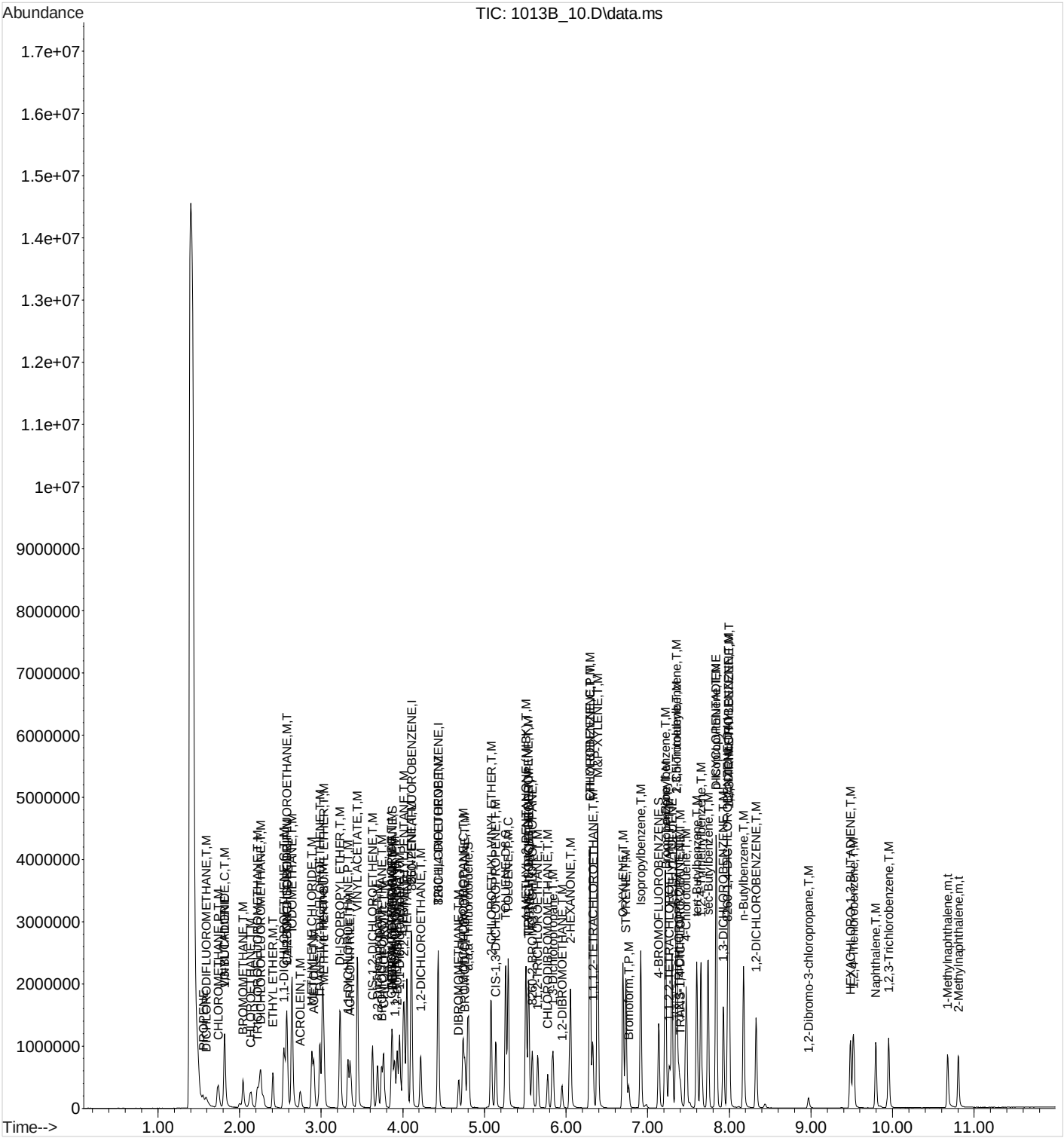
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 10.D
Acq On : 13 Oct 2015 9:09 pm
Operator : 591
Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:05:44 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:04:33 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 11.D
Acq On : 13 Oct 2015 9:30 pm
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:07:02 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	463526	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	827858	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	142024	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.979	152	325108	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.99
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	281412	48.4399453	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 121.10%#			
46) a,a,a-Trifluorotoluene	4.803	146	491013	46.3024916	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.76%			
50) TOLUENE-D8	5.259	98	1208632	46.5046740	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 116.26%#			
68) 4-BROMOFLUOROBENZENE	7.133	95	427130	47.1397441	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 117.85%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	33606661m	124.8368927	ppm	
3) PROPENE	1.560	41	180823	76.0339643	ppb	96
4) DICHLORODIFLUOROMETHANE	1.597	85	420811	73.8778494	ppb	99
5) CHLOROMETHANE	1.743	50	757198	73.6117964	ppb	100
6) VINYL CHLORIDE	1.822	62	778933	74.1176098	ppb	99
7) 1,3-BUTADIENE	1.816	39	667784	75.3295347	ppb	100
8) BROMOMETHANE	2.047	94	478407	74.0245111	ppb	100
9) CHLOROETHANE	2.132	64	485592	73.2957959	ppb	99
10) TRICHLOROFLUOROMETHANE	2.223	101	764704	75.1254325	ppb	99
11) DICHLOROFLUOROMETHANE	2.260	67	1127420	74.5110878	ppb	100
12) ETHYL ETHER	2.412	59	479942	72.9427820	ppb	100
13) ACROLEIN	2.747	56	376032	424.5519564	ppb	100
14) 1,1-DICHLOROETHENE	2.546	61	942949	74.7991396	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	525615	74.3122106	ppb	99
16) ACETONE	2.911	43	1191165	352.4591823	ppb	100
17) IODOMETHANE	2.643	142	4095740	404.4137633	ppb	99
18) CARBON DISULFIDE	2.576	76	2065258	77.0022276	ppb	100
19) METHYLENE CHLORIDE	2.893	84	559532	73.4759168	ppb	99
20) ACRYLONITRILE	3.361	53	808464	367.9347665	ppb	99
21) n-Hexane	3.014	56	661864	73.8734511	ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.984	96	570898	75.7996782	ppb	98
23) METHYL TERT-BUTYL ETHER	3.033	73	1390707	74.6299530	ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	1170319	75.1429067	ppb	100
25) VINYL ACETATE	3.446	43	5127595	377.8743481	ppb	100
26) DI-ISOPROPYL ETHER	3.233	45	2278950	76.0627752	ppb	99
27) 2,2-Dichloropropane	3.696	77	682878	73.7965089	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.629	96	600161	75.9412812	ppb	99
29) 2-BUTANONE (MEK)	3.933	43	1449138	368.5396515	ppb	99
30) BROMOCHLOROMETHANE	3.744	130	286807	73.0172767	ppb	98
31) TETRAHYDROFURAN	3.872	42	145711	72.7548438	ppb	99
32) CHLOROFORM	3.769	83	964237	74.1351527	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.903	97	773846	77.3592636	ppb	98
35) CARBON TETRACHLORIDE	3.866	117	642912	77.3816981	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 11.D
Acq On : 13 Oct 2015 9:30 pm
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:07:02 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	819592	75.1029221 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	2947043	75.2944626 ppb		99
38) HEPTANE	4.049	43	1430820	77.5122654 ppb	#	97
39) BENZENE	4.103	78	2498973	75.1604796 ppb		100
40) 1,2-DICHLOROETHANE	4.219	62	671197	74.1546601 ppb		99
42) TRICHLOROETHENE	4.432	130	534878	74.6918073 ppb		99
43) 1,2-DICHLOROPROPANE	4.742	62	478908	75.7046563 ppb		99
44) DIBROMOMETHANE	4.687	93	273956	74.0881141 ppb		99
45) BROMODICHLOROMETHANE	4.766	83	730061	76.4290813 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	1104271	347.4384231 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.144	75	959832	76.0954462 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.509	43	2418588	366.7904411 ppb		99
51) TOLUENE	5.290	91	2536289	74.2194602 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	824150	75.1410468 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.649	97	402150	73.3602694 ppb		99
55) TETRACHLOROETHENE	5.545	164	400514	75.7047789 ppb		100
56) 1,3-Dichloropropane	5.837	76	803836	74.1112524 ppb		99
57) 2-HEXANONE	6.050	58	1061444	389.8557886 ppb		99
58) CHLORODIBROMOMETHANE	5.776	129	415483	76.1764330 ppb		99
59) 1,2-DIBROMOETHANE	5.953	107	384527	74.6719234 ppb		98
60) CHLOROBENZENE	6.293	112	1455141	76.2606871 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	437012	77.0046076 ppb	#	98
62) ETHYLBENZENE	6.293	106	850240	77.9110609 ppb		98
63) M&P-XYLENE	6.391	106	2077257	153.1169505 ppb		100
64) O-XYLENE	6.695	106	958087	74.3839578 ppb		98
65) STYRENE	6.731	104	1594635	78.8659440 ppb		100
66) Bromoform	6.768	173	231606	76.8124352 ppb		99
67) Isopropylbenzene	6.914	105	2587105	74.4358398 ppb		100
69) Bromobenzene	7.224	77	1212838	76.1466868 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	521693	73.4677861 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.382	110	129911	72.3688780 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	129321	78.6142686 ppb	#	96
73) n-Propylbenzene	7.218	91	3299710	75.2587445 ppb		100
74) 4-ETHYLTOLUENE	7.297	105	2572996	75.9491882 ppb		100
75) 2-Chlorotoluene	7.352	126	576139	75.1208483 ppb		98
76) 4-Chlorotoluene	7.474	91	1867168	76.1310245 ppb		99
77) 1,3,5-Trimethylbenzene	7.358	105	2157612	75.0971265 ppb		100
78) tert-Butylbenzene	7.601	119	1702626	74.1837271 ppb		99
79) 1,2,4-Trimethylbenzene	7.656	105	2059895	74.0811563 ppb		99
80) sec-Butylbenzene	7.741	105	2755588	73.1860244 ppb		100
81) 1,3-DICHLOROBENZENE	7.930	146	1017312	74.7489884 ppb		99
82) p-Isopropyltoluene	7.845	119	2166021	72.4730061 ppb		100
83) DICYCLOPENTADIENE	7.845	66	3056569	74.3479131 ppb		100
85) 1,4-DICHLOROBENZENE	7.991	146	1026788	75.0864187 ppb	#	47
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	2123261	74.4237876 ppb		99
87) 1,2-DICHLOROBENZENE	8.325	146	927966	75.3069978 ppb		99
88) n-Butylbenzene	8.173	91	2157446	70.3963428 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.970	157	76448	76.6963153 ppb		98
90) 1,2,4-Trichlorobenzene	9.524	180	584423	72.1749222 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	293237	63.6960089 ppb		99
92) Naphthalene	9.791	128	1341540	76.6785397 ppb		99
93) 1,2,3-Trichlorobenzene	9.950	180	518762	71.3464099 ppb		99
94) 1-Methylnaphthalene	10.674	142	653399	75.1897496 ppb		100
95) 2-Methylnaphthalene	10.807	142	564736	70.0294090 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 11.D
Acq On : 13 Oct 2015 9:30 pm
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:07:02 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

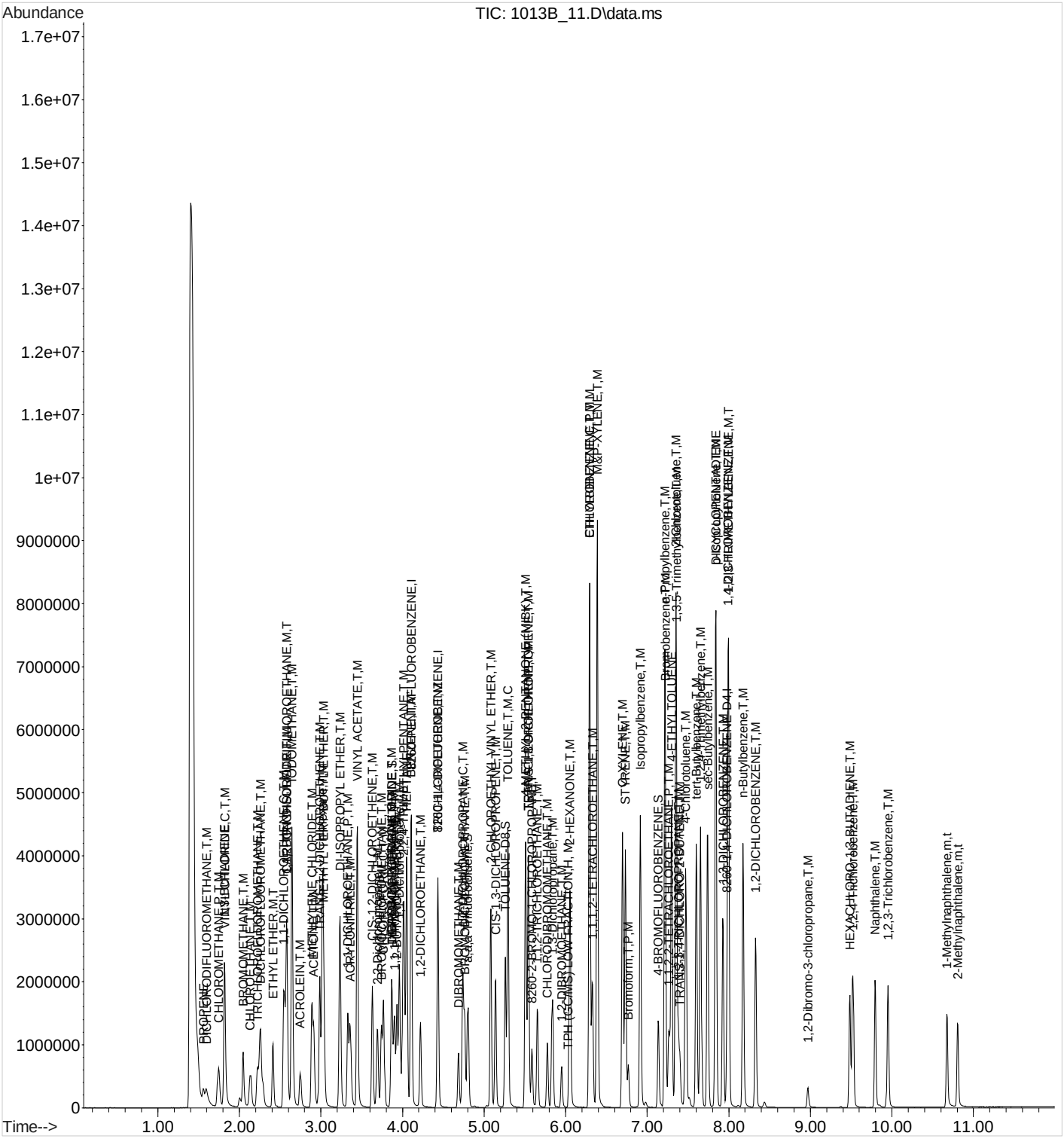
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 11.D
Acq On : 13 Oct 2015 9:30 pm
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:07:02 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 12.D
Acq On : 13 Oct 2015 9:50 pm
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:08:12 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	457973	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	823056	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	138938	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	323595	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	283493	49.3898373 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 123.47%#		
46) a,a,a-Trifluorotoluene	4.803	146	499682	47.3948923 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 118.49%#		
50) TOLUENE-D8	5.259	98	1217023	47.1007439 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 117.75%#		
68) 4-BROMOFLUOROBENZENE	7.133	95	432553	48.7985784 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 122.00%#		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	49815161m	187.2894633 ppm	
3) PROPENE	1.554	41	240110	102.1876559 ppb	96
4) DICHLORODIFLUOROMETHANE	1.591	85	567880	100.9062251 ppb	99
5) CHLOROMETHANE	1.743	50	1001978	98.5894330 ppb	100
6) VINYL CHLORIDE	1.822	62	1037967	99.9629521 ppb	99
7) 1,3-BUTADIENE	1.822	39	887923	101.3768532 ppb	100
8) BROMOMETHANE	2.047	94	613795	96.1248319 ppb	100
9) CHLOROETHANE	2.139	64	634443	96.9246802 ppb	99
10) TRICHLOROFLUOROMETHANE	2.224	101	1015624	100.9859146 ppb	100
11) DICHLOROFLUOROMETHANE	2.260	67	1492077	99.8069144 ppb	100
12) ETHYL ETHER	2.412	59	644553	99.1485632 ppb	100
13) ACROLEIN	2.747	56	569851	651.1807917 ppb	98
14) 1,1-DICHLOROETHENE	2.546	61	1248992	100.2772186 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.577	101	703951	100.7323777 ppb	99
16) ACETONE	2.911	43	1592345	476.8791104 ppb	100
17) IODOMETHANE	2.643	142	5547786	554.4309590 ppb	99
18) CARBON DISULFIDE	2.577	76	2809228	106.0108188 ppb	99
19) METHYLENE CHLORIDE	2.887	84	743328	98.7949627 ppb	99
20) ACRYLONITRILE	3.355	53	1103923	508.4908557 ppb	100
21) n-Hexane	3.015	56	878688	99.2632633 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.984	96	752679	101.1469670 ppb	99
23) METHYL TERT-BUTYL ETHER	3.033	73	1859101	100.9752035 ppb	100
24) 1,1-DICHLOROETHANE	3.331	63	1554519	101.0215422 ppb	99
25) VINYL ACETATE	3.446	43	6582461	490.9714233 ppb	100
26) DI-ISOPROPYL ETHER	3.234	45	3034063	102.4934682 ppb	99
27) 2,2-Dichloropropane	3.690	77	867149	94.8463556 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.629	96	794701	101.7766457 ppb	100
29) 2-BUTANONE (MEK)	3.933	43	1965680	505.9662163 ppb	98
30) BROMOCHLOROMETHANE	3.745	130	380034	97.9247704 ppb	98
31) TETRAHYDROFURAN	3.872	42	201337	101.7483538 ppb	97
32) CHLOROFORM	3.769	83	1288603	100.2752508 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.903	97	1031156	104.3317238 ppb	98
35) CARBON TETRACHLORIDE	3.866	117	843600	102.7679089 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 12.D
Acq On : 13 Oct 2015 9:50 pm
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:08:12 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	1085976	100.7195035 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	3880918	100.3564422 ppb		99
38) HEPTANE	4.049	43	1924162	105.5021442 ppb	#	97
39) BENZENE	4.103	78	3318561	101.0210803 ppb		100
40) 1,2-DICHLOROETHANE	4.219	62	891489	99.6870296 ppb		99
42) TRICHLOROETHENE	4.432	130	703934	98.8727560 ppb		100
43) 1,2-DICHLOROPROPANE	4.742	62	637195	101.3139679 ppb		100
44) DIBROMOMETHANE	4.681	93	369560	100.5261724 ppb		99
45) BROMODICHLOROMETHANE	4.767	83	975672	102.7376900 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	984718	311.6309040 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.144	75	1288073	102.7141755 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.509	43	3324066	507.0516709 ppb		100
51) TOLUENE	5.290	91	3392813	99.8631914 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	1110107	101.8034003 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.655	97	538257	100.3698392 ppb		100
55) TETRACHLOROETHENE	5.545	164	531895	102.7713826 ppb		100
56) 1,3-Dichloropropane	5.837	76	1077730	101.5704484 ppb		99
57) 2-HEXANONE	6.050	58	1464829	549.9643356 ppb		97
58) CHLORODIBROMOMETHANE	5.776	129	566092	106.0950419 ppb		99
59) 1,2-DIBROMOETHANE	5.953	107	515652	102.3594402 ppb		100
60) CHLOROBENZENE	6.294	112	1960406	105.0225010 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	587521	105.8247962 ppb	#	99
62) ETHYLBENZENE	6.294	106	1135346	106.3473119 ppb		98
63) M&P-XYLENE	6.391	106	2779828	209.4554486 ppb		99
64) O-XYLENE	6.695	106	1290166	102.3907266 ppb		99
65) STYRENE	6.732	104	2142505	108.3155365 ppb		100
66) Bromoform	6.768	173	320474	108.6463713 ppb		99
67) Isopropylbenzene	6.914	105	3483171	102.4432930 ppb		100
69) Bromobenzene	7.224	77	1624681	104.2694337 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	705196	101.5155287 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.383	110	174914	99.6027163 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	184501	114.6493892 ppb	#	94
73) n-Propylbenzene	7.218	91	4400537	102.5953247 ppb		99
74) 4-ETHYLTOLUENE	7.297	105	3382238	102.0537310 ppb		99
75) 2-Chlorotoluene	7.352	126	775048	103.3005196 ppb		100
76) 4-Chlorotoluene	7.474	91	2459782	102.5216518 ppb		100
77) 1,3,5-Trimethylbenzene	7.358	105	2896831	103.0656217 ppb		99
78) tert-Butylbenzene	7.602	119	2273909	101.2752132 ppb		99
79) 1,2,4-Trimethylbenzene	7.656	105	2747840	101.0170793 ppb		99
80) sec-Butylbenzene	7.741	105	3657474	99.2969287 ppb		99
81) 1,3-DICHLOROBENZENE	7.930	146	1358392	102.0274341 ppb		99
82) p-Isopropyltoluene	7.845	119	2921901	99.9355040 ppb		100
83) DICYCLOPENTADIENE	7.845	66	4117842	102.3870322 ppb		100
85) 1,4-DICHLOROBENZENE	7.997	146	1373709	100.9255683 ppb	#	40
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	2856650	100.5984462 ppb		99
87) 1,2-DICHLOROBENZENE	8.325	146	1237418	100.8894032 ppb		99
88) n-Butylbenzene	8.173	91	2851308	93.4717017 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.970	157	106606	107.4523391 ppb		97
90) 1,2,4-Trichlorobenzene	9.524	180	768534	95.3559868 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	386794	84.4109982 ppb		100
92) Naphthalene	9.798	128	1866945	107.2080964 ppb		100
93) 1,2,3-Trichlorobenzene	9.950	180	701606	96.9444870 ppb		100
94) 1-Methylnaphthalene	10.674	142	946104	109.3817596 ppb		99
95) 2-Methylnaphthalene	10.808	142	814608	101.4867892 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 12.D
Acq On : 13 Oct 2015 9:50 pm
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:08:12 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

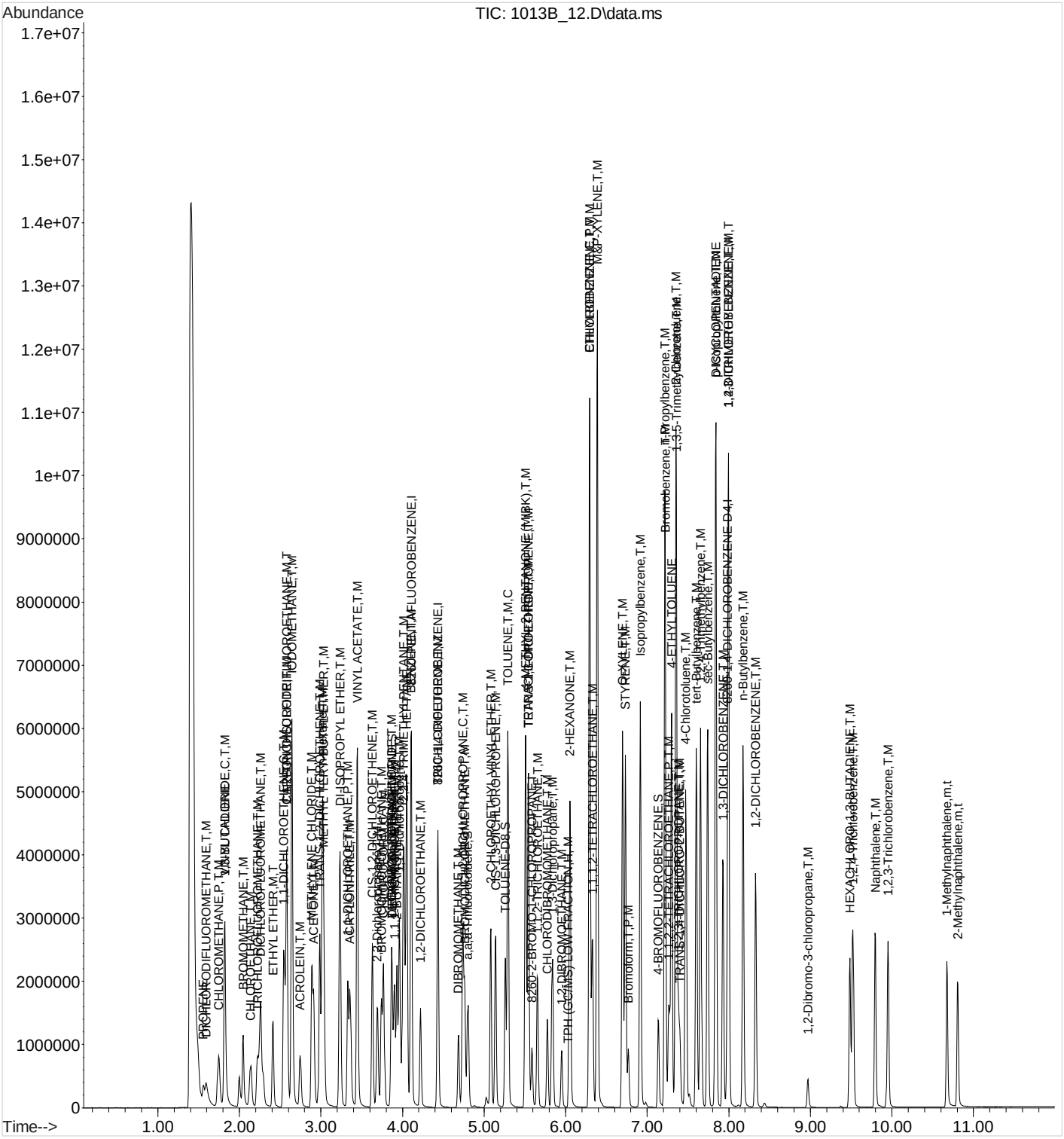
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 12.D
Acq On : 13 Oct 2015 9:50 pm
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:08:12 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 13.D
Acq On : 13 Oct 2015 10:11 pm
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:09:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.110	168	461129	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	843437	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	137523	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	334061	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	295724	51.1680972 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 127.92%#		
46) a,a,a-Trifluorotoluene	4.803	146	500019	46.2808237 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.70%		
50) TOLUENE-D8	5.259	98	1229861	46.4474362 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 116.12%#		
68) 4-BROMOFLUOROBENZENE	7.133	95	437116	49.8207488 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 124.55%#		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	130989118m	489.1076617 ppm	
3) PROPENE	1.554	41	484132	204.6300535 ppb	96
4) DICHLORODIFLUOROMETHANE	1.591	85	1142239	201.5746013 ppb	100
5) CHLOROMETHANE	1.743	50	2035754	198.9367043 ppb	99
6) VINYL CHLORIDE	1.816	62	2126934	203.4356120 ppb	100
7) 1,3-BUTADIENE	1.816	39	1845360	209.2483501 ppb	99
8) BROMOMETHANE	2.041	94	1112381	173.0147975 ppb	99
9) CHLOROETHANE	2.126	64	1188923	180.3901977 ppb	99
10) TRICHLOROFLUOROMETHANE	2.212	101	2054161	202.8522209 ppb	100
11) DICHLOROFLUOROMETHANE	2.254	67	3000419	199.3281976 ppb	99
12) ETHYL ETHER	2.406	59	1325452	202.4926364 ppb	99
13) ACROLEIN	2.741	56	1195279	1356.5224805 ppb	99
14) 1,1-DICHLOROETHENE	2.540	61	2547525	203.1320804 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.570	101	1457852	207.1846286 ppb	99
16) ACETONE	2.911	43	3666168	1090.4378849 ppb	100
17) IODOMETHANE	2.637	142	11538105	1145.1956739 ppb	99
18) CARBON DISULFIDE	2.570	76	5794263	217.1595053 ppb	99
19) METHYLENE CHLORIDE	2.887	84	1515870	200.0938343 ppb	99
20) ACRYLONITRILE	3.355	53	2477677	1133.4607715 ppb	100
21) n-Hexane	3.015	56	1806714	202.7032456 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.978	96	1526410	203.7190804 ppb	99
23) METHYL TERT-BUTYL ETHER	3.033	73	3910512	210.9418812 ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	3141261	202.7399903 ppb	100
25) VINYL ACETATE	3.440	43	13565700	1004.9109261 ppb	98
26) DI-ISOPROPYL ETHER	3.227	45	6172830	207.0967821 ppb	99
27) 2,2-Dichloropropane	3.690	77	1616343	175.5811489 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.629	96	1615496	205.4791215 ppb	100
29) 2-BUTANONE (MEK)	3.933	43	4582110	1171.3634021 ppb	97
30) BROMOCHLOROMETHANE	3.738	130	795438	203.5606753 ppb	99
31) TETRAHYDROFURAN	3.866	42	466844	234.3111843 ppb	98
32) CHLOROFORM	3.769	83	2594327	200.5011064 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.897	97	2059679	206.9707579 ppb	98
35) CARBON TETRACHLORIDE	3.860	117	1700915	205.7884515 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 13.D
Acq On : 13 Oct 2015 10:11 pm
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:09:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.964	75	2221192	204.5958822 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	7949703	204.1639846 ppb		99
38) HEPTANE	4.049	43	3988490	217.1928877 ppb	#	96
39) BENZENE	4.103	78	6755315	204.2326853 ppb		99
40) 1,2-DICHLOROETHANE	4.219	62	1835874	203.8839210 ppb		99
42) TRICHLOROETHENE	4.432	130	1468063	201.2176753 ppb		100
43) 1,2-DICHLOROPROPANE	4.736	62	1303562	202.2578533 ppb		100
44) DIBROMOMETHANE	4.681	93	768093	203.8847449 ppb		99
45) BROMODICHLOROMETHANE	4.761	83	2005807	206.1065691 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.077	63	3357876	1036.9791727 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.138	75	2670809	207.8305922 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.509	43	7385229	1099.3178576 ppb		99
51) TOLUENE	5.290	91	6877472	197.5381968 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	2378017	212.8085803 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.649	97	1125181	211.9735323 ppb		99
55) TETRACHLOROETHENE	5.545	164	1132394	221.0495098 ppb		99
56) 1,3-Dichloropropane	5.837	76	2242642	213.5320424 ppb		100
57) 2-HEXANONE	6.050	58	3332374	1263.9999020 ppb		97
58) CHLORODIBROMOMETHANE	5.776	129	1188608	225.0569481 ppb		99
59) 1,2-DIBROMOETHANE	5.953	107	1082852	217.1630856 ppb		99
60) CHLOROBENZENE	6.294	112	4181199	226.2991260 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	1205967	219.4548461 ppb	#	100
62) ETHYLBENZENE	6.294	106	2433184	230.2602330 ppb		94
63) M&P-XYLENE	6.391	106	5935237	451.8117361 ppb		92
64) O-XYLENE	6.695	106	2653724	212.7729865 ppb		99
65) STYRENE	6.732	104	4456282	227.6078740 ppb		100
66) Bromoform	6.768	173	698049	239.0859411 ppb		99
67) Isopropylbenzene	6.914	105	7065736	209.9480505 ppb		99
69) Bromobenzene	7.218	77	3436966	222.8485715 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.267	83	1540000	223.9695961 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.383	110	384960	221.4664385 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	424958	266.7870443 ppb	#	94
73) n-Propylbenzene	7.218	91	9128638	215.0173890 ppb		99
74) 4-ETHYLTOLUENE	7.297	105	7051291	214.9507999 ppb		99
75) 2-Chlorotoluene	7.352	126	1642308	221.1435209 ppb		99
76) 4-Chlorotoluene	7.474	91	5143779	216.5942794 ppb		100
77) 1,3,5-Trimethylbenzene	7.358	105	6041580	217.1635355 ppb		98
78) tert-Butylbenzene	7.602	119	4559184	205.1459325 ppb		99
79) 1,2,4-Trimethylbenzene	7.656	105	5637581	209.3832162 ppb		98
80) sec-Butylbenzene	7.741	105	7295901	200.1147985 ppb		99
81) 1,3-DICHLOROBENZENE	7.930	146	2851677	216.3903490 ppb		100
82) p-Isopropyltoluene	7.845	119	6035929	208.5663005 ppb		99
83) DICYCLOPENTADIENE	7.845	66	8221690	206.5294929 ppb		100
85) 1,4-DICHLOROBENZENE	7.997	146	2996362	213.2439736 ppb	#	30
86) 1,2,3-TRIMETHYLBENZENE	7.997	105	5952840	203.0647193 ppb		98
87) 1,2-DICHLOROBENZENE	8.325	146	2604967	205.7346185 ppb		99
88) n-Butylbenzene	8.173	91	5767102	183.1342926 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.970	157	242776	237.0369242 ppb		96
90) 1,2,4-Trichlorobenzene	9.524	180	1474604	177.2296226 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.487	225	694178	146.7459685 ppb		99
92) Naphthalene	9.792	128	3755974	208.9270459 ppb		99
93) 1,2,3-Trichlorobenzene	9.950	180	1304926	174.6593069 ppb		100
94) 1-Methylnaphthalene	10.674	142	1660958	186.0118890 ppb		100
95) 2-Methylnaphthalene	10.808	142	1408867	170.0226826 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 13.D
Acq On : 13 Oct 2015 10:11 pm
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:09:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

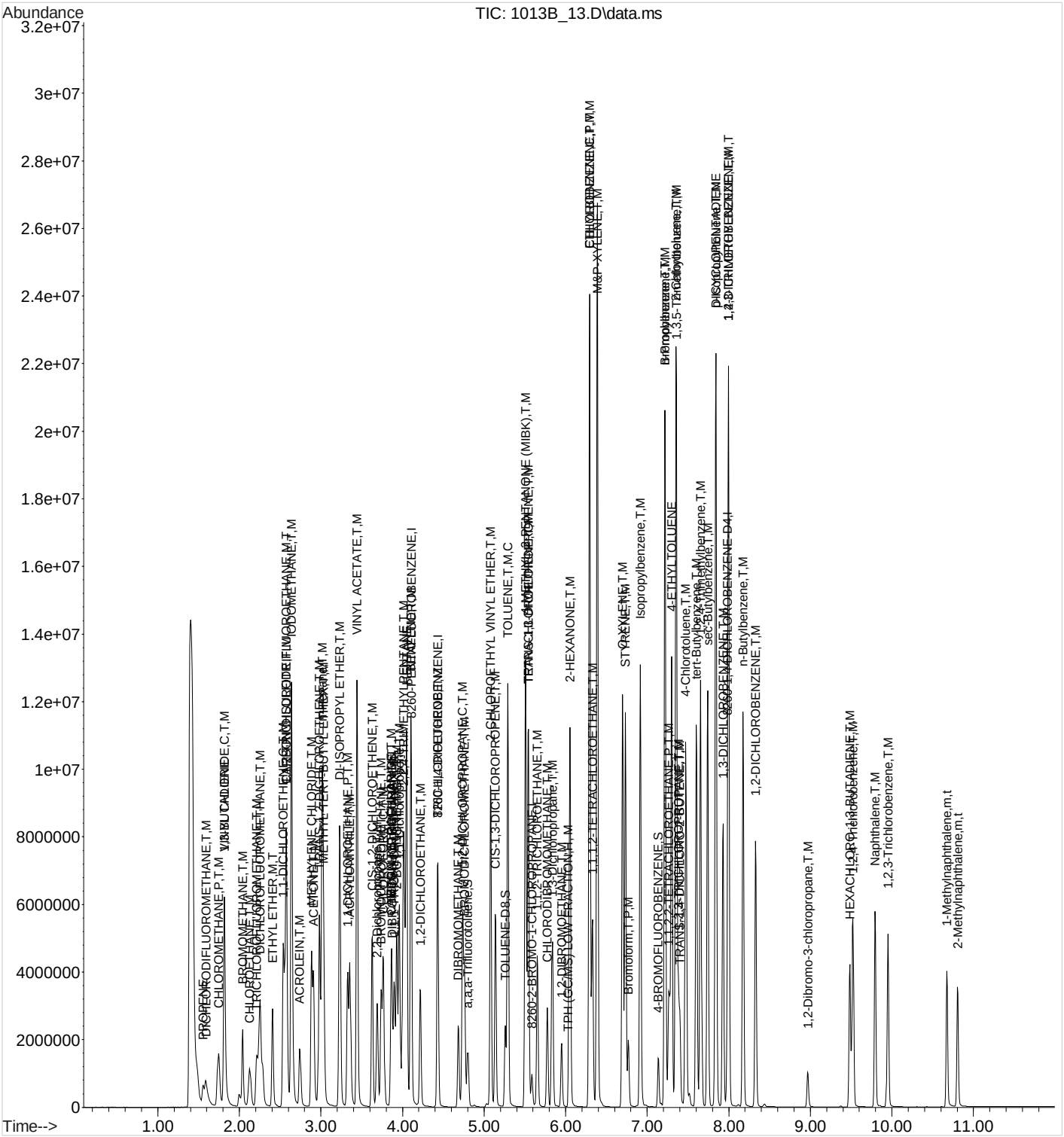
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 13.D
Acq On : 13 Oct 2015 10:11 pm
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:09:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:29:40 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

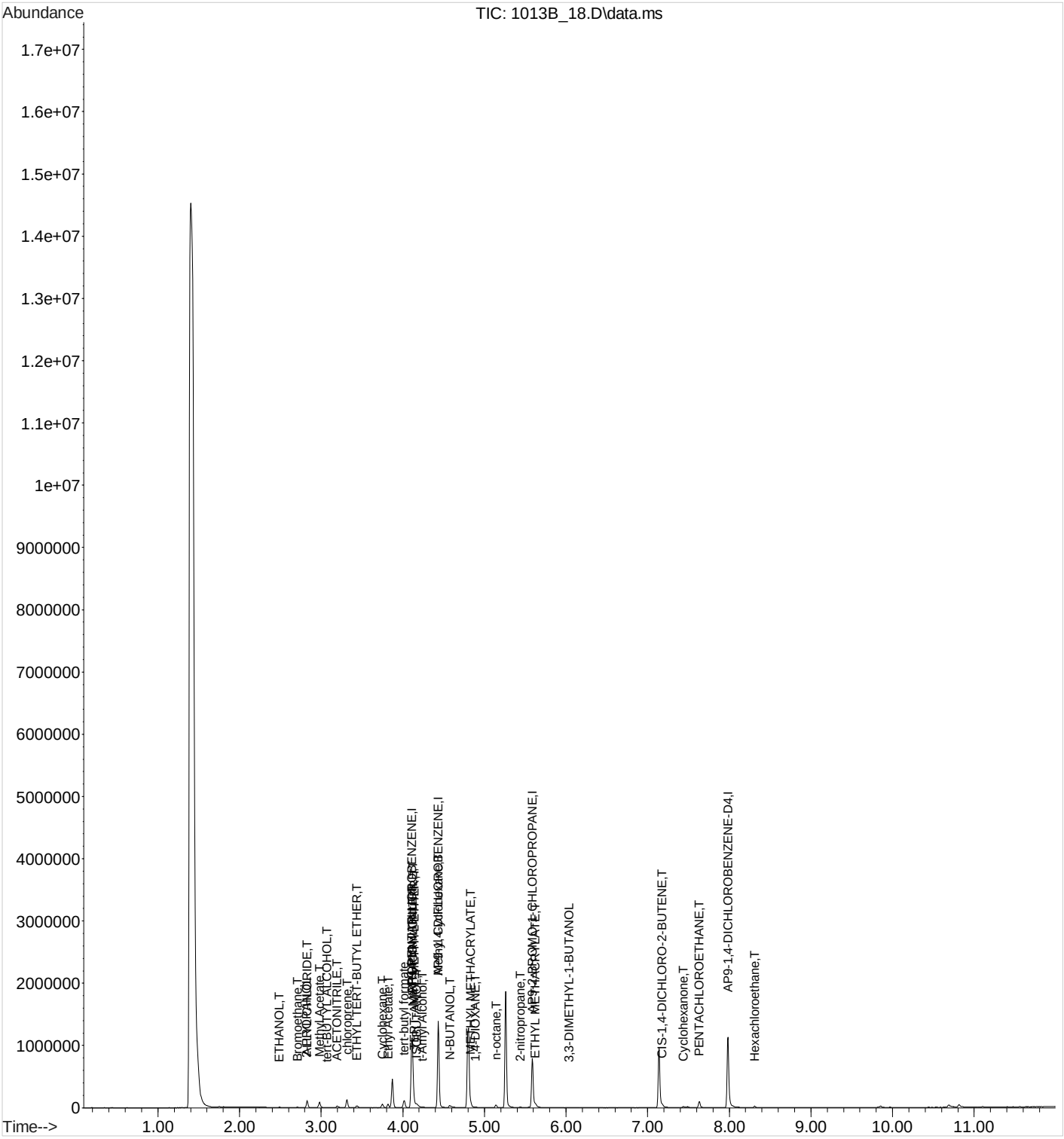
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.11
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.43
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.59
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.98
96) AP9-PENTAFLUOROBENZENE	4.110	168	436715	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	775776	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	131523	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	283142	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.485	45	9128	131.0896771	ppb #	81
98) Bromoethane	2.710	108	6645	1.0676054	ppb	97
99) 2-PROPANOL	2.820	45	2263	5.5469660	ppb #	56
100) Methyl Acetate	2.978	43	95368	19.4427727	ppb #	99
101) ACETONITRILE	3.191	41	35186	44.6498362	ppb	96
102) ALLYL CHLORIDE	2.826	76	19134	4.9094665	ppb	94
103) tert-BUTYL ALCOHOL	3.069	59	7551	4.4854939	ppb #	86
104) chloroprene	3.319	53	62728	4.8565273	ppb	97
105) ETHYL TERT-BUTYL ETHER	3.434	59	23723	1.0354531	ppb	99
106) PROPIONITRILE	4.116	54	39948	42.9154657	ppb #	65
107) Ethyl Acetate	3.818	43	58159	8.9247012	ppb	99
108) METHACRYLONITRILE	4.122	67	129863	47.5914505	ppb	95
109) Cyclohexane	3.751	84	17407	1.0175687	ppb	97
110) tert-butyl formate	4.012	59	47843	10.1814506	ppb	95
111) ISOBUTANOL	4.170	43	43042	99.8083687	ppb #	31
112) t-Amyl Alcohol	4.237	59	2639	4.4312909	ppb #	69
113) TERT-AMYL METHYL ETHER	4.140	73	23728	0.9880131	ppb #	93
115) N-BUTANOL	4.578	56	26169	124.9714978	ppb	97
116) Methyl Cyclohexane	4.432	83	28251	1.4066512	ppb #	84
117) 2-nitropropane	5.436	43	8591	4.8299919	ppb	98
118) METHYL METHACRYLATE	4.827	41	30419	4.4032015	ppb #	30
119) 1,4-DIOXANE	4.888	88	5958	91.1089604	ppb #	90
120) n-octane	5.144	85	7949	0.9917444	ppb	96
121) 3,3-DIMETHYL-1-BUTANOL	6.038	57	4841m	5.9968985	ppb	
123) ETHYL METHACRYLATE	5.624	69	32558	3.8502086	ppb #	18
124) CIS-1,4-DICHLORO-2-BUTENE	7.176	53	7091	3.5859022	ppb #	22
125) Cyclohexanone	7.437	55	9363	6.4355141	ppb	97
126) PENTACHLOROETHANE	7.632	117	16790	4.3280876	ppb #	92
127) Hexachloroethane	8.307	117	4244	0.9091436	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:29:40 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On    : 14 Oct 2015  12:30 am
Operator  : 591
Sample    : STD VMS 1a ppb 15H20824
Misc      : water IS/SURR15D18333
ALS Vial  : 18   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 09:28:05 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration
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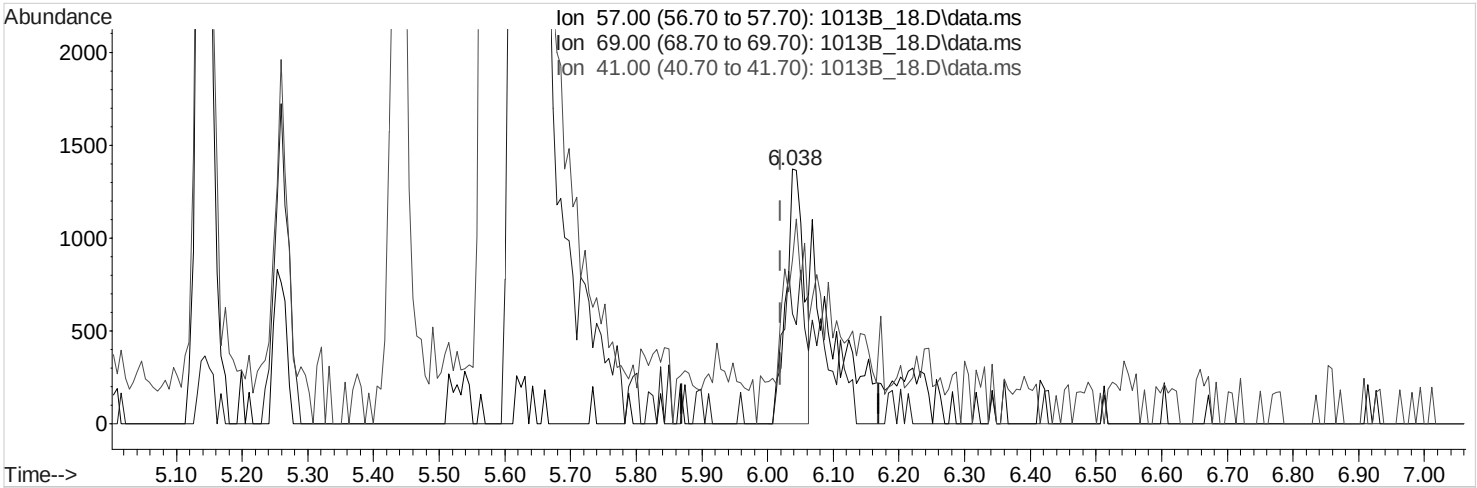
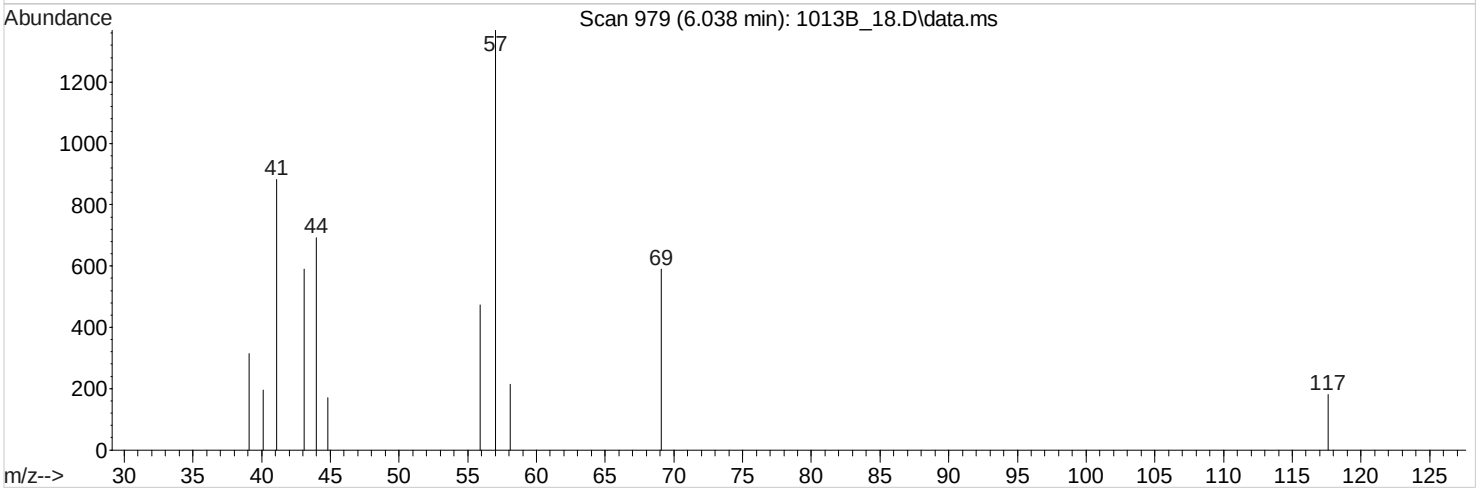




TIC: 1013B_18.D\data.ms

(121) 3,3-DIMETHYL-1-BUTANOL

6.038min (+0.018) 3.2220477 ppb

Qvalue = 84

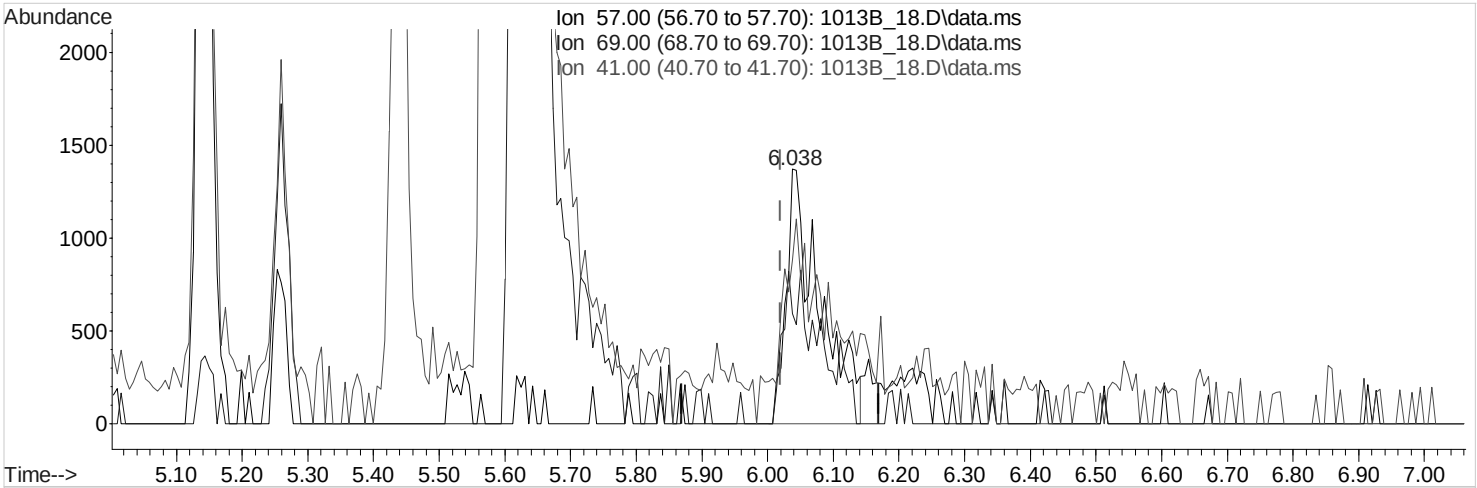
response 2601

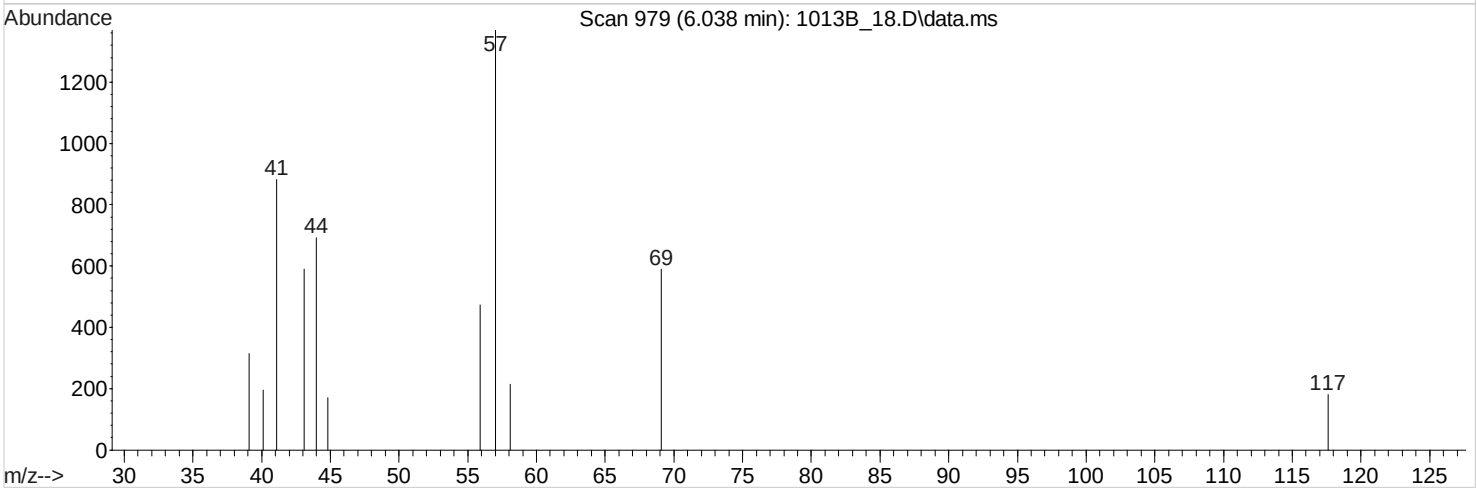
Ion	Exp%	Act%
57.00	100	100
69.00	68.90	43.71#
41.00	69.90	71.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 18.D
Acq On : 14 Oct 2015 12:30 am
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:28:05 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration





TIC: 1013B_18.D\data.ms

(121) 3,3-DIMETHYL-1-BUTANOL
6.038min (+0.018) 5.9968985 ppb m

response 4841

Ion	Exp%	Act%
57.00	100	100
69.00	68.90	23.49#
41.00	69.90	38.19#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 19.D
Acq On : 14 Oct 2015 12:51 am
Operator : 591
Sample : STD VMS 2.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:30:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

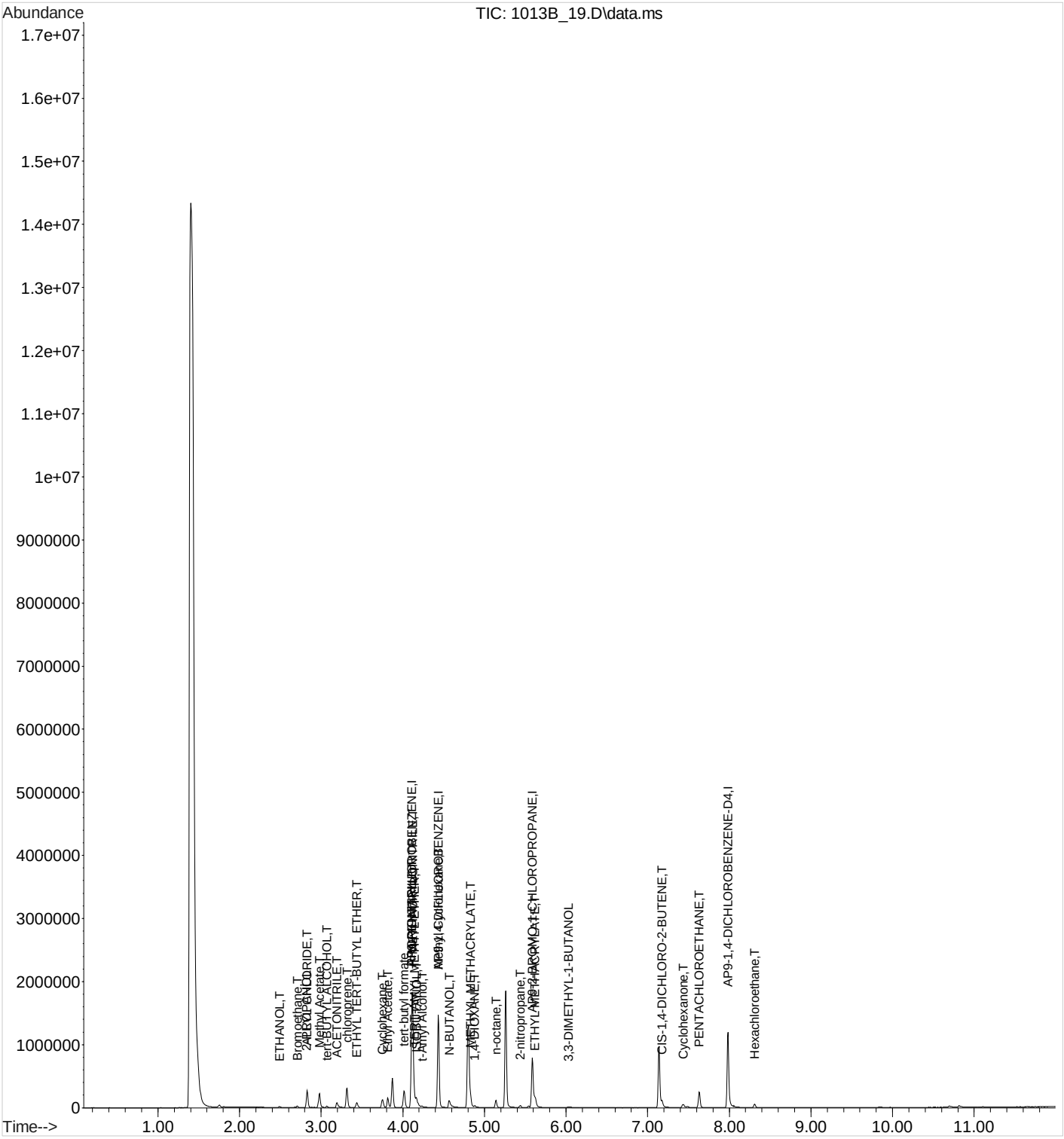
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96)	AP9-PENTAFLUOROBENZENE	4.110	168	441624	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	776020	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	129046	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	286842	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 79 - 121			Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 116			Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 115			Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 80 - 120			Recovery = 0.00%#			
Target Compounds								Qvalue
97)	ETHANOL	2.491	45	22382	317.8609636	ppb	#	93
98)	Bromoethane	2.710	108	16081	2.5549020	ppb		98
99)	2-PROPANOL	2.820	45	5057	12.2577100	ppb	#	89
100)	Methyl Acetate	2.978	43	234409	47.2579902	ppb	#	100
101)	ACETONITRILE	3.191	41	91676	115.0405819	ppb		95
102)	ALLYL CHLORIDE	2.826	76	49075	12.4518616	ppb		97
103)	tert-BUTYL ALCOHOL	3.069	59	22442	13.1829560	ppb		96
104)	chloroprene	3.319	53	162043	12.4062380	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.434	59	59045	2.5485279	ppb		98
106)	PROPIONITRILE	4.110	54	102272	108.6478107	ppb	#	89
107)	Ethyl Acetate	3.811	43	147272	22.3481913	ppb		99
108)	METHACRYLONITRILE	4.122	67	321205	116.4048966	ppb		95
109)	Cyclohexane	3.751	84	42157	2.4369968	ppb		98
110)	tert-butyl formate	4.012	59	107254	22.5709684	ppb		96
111)	ISOBUTANOL	4.170	43	99696	228.6112984	ppb	#	99
112)	t-Amyl Alcohol	4.237	59	6798	11.2880122	ppb		99
113)	TERT-AMYL METHYL ETHER	4.146	73	59610	2.4545175	ppb	#	99
115)	N-BUTANOL	4.572	56	77497	369.9748171	ppb		97
116)	Methyl Cyclohexane	4.432	83	56354	2.8050510	ppb		94
117)	2-nitropropane	5.436	43	19611	11.0221382	ppb		91
118)	METHYL METHACRYLATE	4.827	41	77954	11.2804248	ppb		94
119)	1,4-DIOXANE	4.876	88	14923	228.1288214	ppb		94
120)	n-octane	5.144	85	19229	2.3983215	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.032	57	12986	16.0816438	ppb		92
123)	ETHYL METHACRYLATE	5.618	69	87457	10.5409141	ppb	#	17
124)	CIS-1,4-DICHLORO-2-BUTENE	7.176	53	20510	10.5709440	ppb	#	24
125)	Cyclohexanone	7.437	55	28321	19.8396482	ppb		97
126)	PENTACHLOROETHANE	7.632	117	43031	11.3053482	ppb		96
127)	Hexachloroethane	8.307	117	11211	2.4477025	ppb		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 19.D
Acq On : 14 Oct 2015 12:51 am
Operator : 591
Sample : STD VMS 2.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:30:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 20.D
Acq On : 14 Oct 2015 1:11 am
Operator : 591
Sample : STD VMS 5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:31:04 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

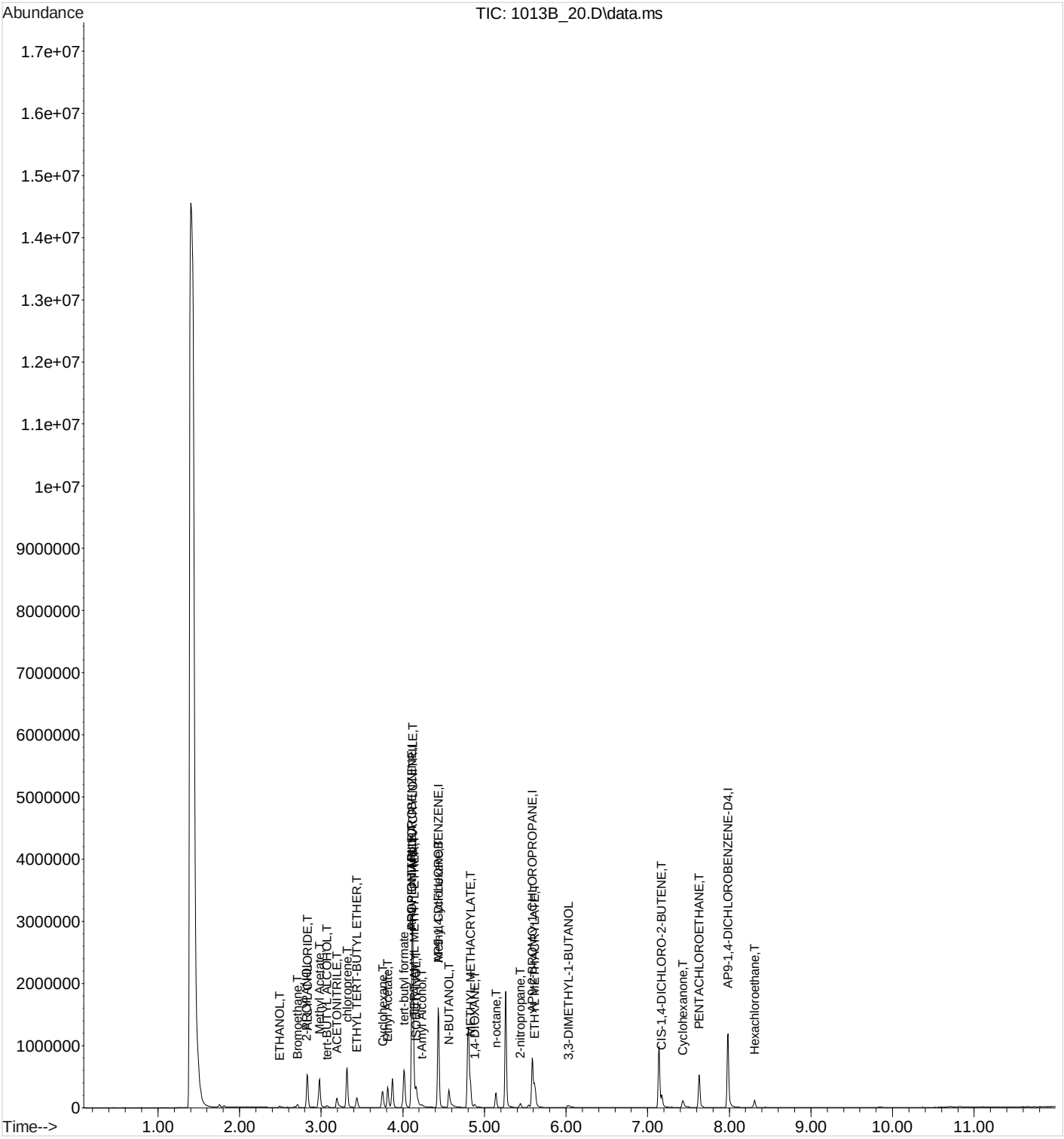
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96)	AP9-PENTAFLUOROBENZENE	4.109	168	433552	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	762528	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	126973	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	290538	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 79 - 121			Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 116			Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 115			Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 80 - 120			Recovery = 0.00%#			
Target Compounds								Qvalue
97)	ETHANOL	2.491	45	34981	506.0366801	ppb		97
98)	Bromoethane	2.710	108	31892	5.1612445	ppb		96
99)	2-PROPANOL	2.820	45	10766	26.5816686	ppb		99
100)	Methyl Acetate	2.978	43	472705	97.0739351	ppb	#	99
101)	ACETONITRILE	3.191	41	181280	231.7164036	ppb		97
102)	ALLYL CHLORIDE	2.832	76	97650	25.2381604	ppb		99
103)	tert-BUTYL ALCOHOL	3.069	59	30866	18.4689867	ppb		98
104)	chloroprene	3.319	53	321755	25.0926547	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.434	59	116609	5.1268405	ppb		99
106)	PROPIONITRILE	4.109	54	216216	233.9718087	ppb		96
107)	Ethyl Acetate	3.811	43	304220	47.0242017	ppb		99
108)	METHACRYLONITRILE	4.122	67	650431	240.1052505	ppb		96
109)	Cyclohexane	3.757	84	85138	5.0132595	ppb		98
110)	tert-butyl formate	4.012	59	252108	54.0424208	ppb		99
111)	ISOBUTANOL	4.164	43	206364	482.0203422	ppb	#	31
112)	t-Amyl Alcohol	4.231	59	12389	20.9548250	ppb		91
113)	TERT-AMYL METHYL ETHER	4.140	73	121581	5.0994600	ppb	#	92
115)	N-BUTANOL	4.566	56	171763	834.5147340	ppb		98
116)	Methyl Cyclohexane	4.432	83	103836	5.2599436	ppb		99
117)	2-nitropropane	5.436	43	38602	22.0796934	ppb		97
118)	METHYL METHACRYLATE	4.827	41	162379	23.9129983	ppb		89
119)	1,4-DIOXANE	4.882	88	27994	435.5179855	ppb		93
120)	n-octane	5.144	85	37403	4.7476015	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.032	57	29696	37.4257155	ppb		97
123)	ETHYL METHACRYLATE	5.618	69	183801	22.5146258	ppb	#	17
124)	CIS-1,4-DICHLORO-2-BUTENE	7.169	53	40365	21.1439555	ppb		92
125)	Cyclohexanone	7.431	55	56214	40.0223918	ppb		99
126)	PENTACHLOROETHANE	7.632	117	89697	23.9504452	ppb		98
127)	Hexachloroethane	8.307	117	21849	4.8481830	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 20.D
Acq On : 14 Oct 2015 1:11 am
Operator : 591
Sample : STD VMS 5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:31:04 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 21.D
Acq On : 14 Oct 2015 1:31 am
Operator : 591
Sample : STD VMS 7.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:31:45 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

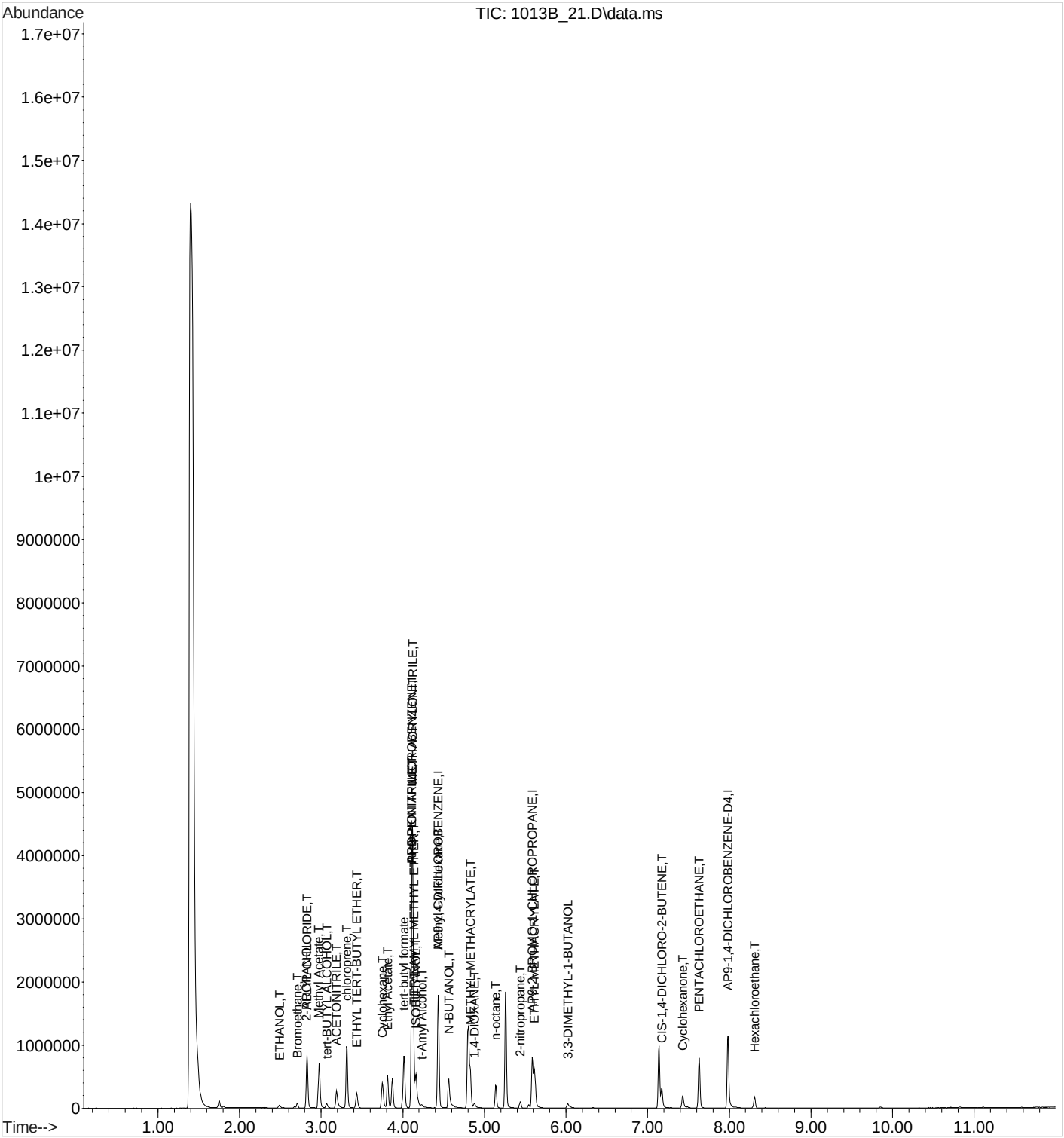
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96)	AP9-PENTAFLUOROBENZENE	4.109	168	438536	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	764949	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	129559	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	282480	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 79 - 121			Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 116			Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 115			Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 80 - 120			Recovery = 0.00%#			
Target Compounds								Qvalue
97)	ETHANOL	2.491	45	62197	889.5188543	ppb	#	98
98)	Bromoethane	2.710	108	46547	7.4473251	ppb		100
99)	2-PROPANOL	2.820	45	13864	33.8417144	ppb		92
100)	Methyl Acetate	2.972	43	712274	144.6090503	ppb	#	99
101)	ACETONITRILE	3.185	41	281504	355.7356582	ppb		97
102)	ALLYL CHLORIDE	2.826	76	146726	37.4911247	ppb		100
103)	tert-BUTYL ALCOHOL	3.069	59	68122	40.2982374	ppb		98
104)	chloroprene	3.312	53	492073	37.9390790	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.434	59	171831	7.4688751	ppb		100
106)	PROPIONITRILE	4.109	54	324608	347.2728774	ppb		96
107)	Ethyl Acetate	3.811	43	463204	70.7851104	ppb		99
108)	METHACRYLONITRILE	4.122	67	985078	359.5066997	ppb		97
109)	Cyclohexane	3.750	84	129424	7.5343797	ppb		98
110)	tert-butyl formate	4.012	59	341127	72.2936589	ppb		99
111)	ISOBUTANOL	4.164	43	311922	720.2999410	ppb		99
112)	t-Amyl Alcohol	4.231	59	18119	30.2982785	ppb		87
113)	TERT-AMYL METHYL ETHER	4.140	73	178835	7.4156110	ppb	#	96
115)	N-BUTANOL	4.566	56	259571	1257.1406702	ppb		97
116)	Methyl Cyclohexane	4.432	83	151991	7.6749282	ppb		100
117)	2-nitropropane	5.436	43	60860	34.7007207	ppb		100
118)	METHYL METHACRYLATE	4.827	41	241054	35.3868437	ppb		94
119)	1,4-DIOXANE	4.876	88	46040	714.0025548	ppb		97
120)	n-octane	5.138	85	58892	7.4515640	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	43175	54.2410163	ppb		96
123)	ETHYL METHACRYLATE	5.612	69	282549	33.9198898	ppb	#	17
124)	CIS-1,4-DICHLORO-2-BUTENE	7.176	53	63131	32.4091576	ppb		99
125)	Cyclohexanone	7.431	55	87052	60.7408824	ppb		99
126)	PENTACHLOROETHANE	7.632	117	137351	35.9427491	ppb		98
127)	Hexachloroethane	8.307	117	32838	7.1411464	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 21.D
Acq On : 14 Oct 2015 1:31 am
Operator : 591
Sample : STD VMS 7.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:31:45 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 22.D
Acq On : 14 Oct 2015 1:52 am
Operator : 591
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:32:26 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

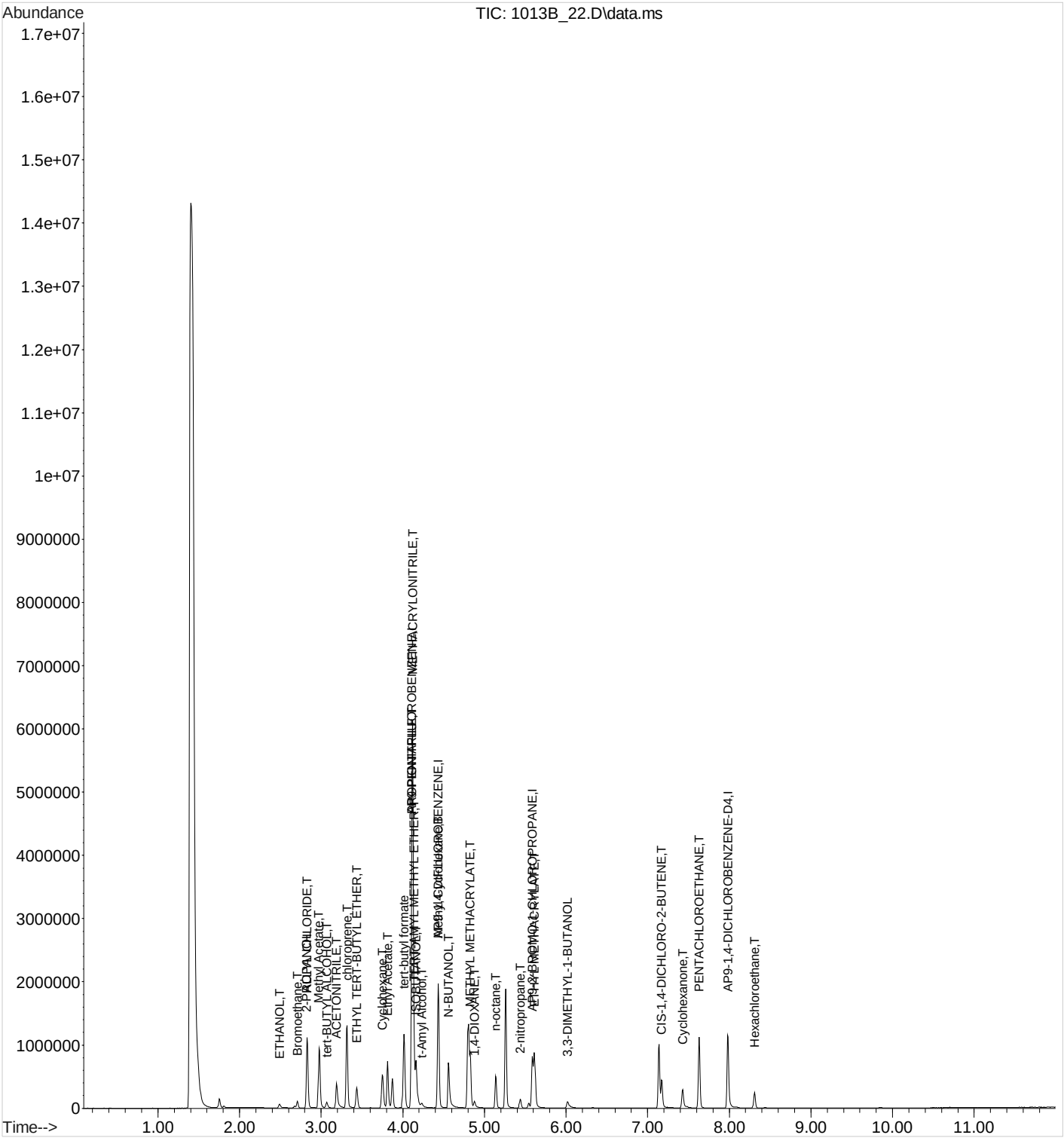
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96)	AP9-PENTAFLUOROBENZENE	4.109	168	438843	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	769730	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	129871	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	285982	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 79 - 121			Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 116			Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 115			Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 80 - 120			Recovery = 0.00%#			
Target Compounds								Qvalue
97)	ETHANOL	2.491	45	82626	1180.8603072	ppb		94
98)	Bromoethane	2.710	108	64109	10.2499960	ppb		100
99)	2-PROPANOL	2.820	45	21310	51.9808446	ppb		98
100)	Methyl Acetate	2.972	43	977120	198.2404891	ppb	#	99
101)	ACETONITRILE	3.185	41	389297	491.6091556	ppb		97
102)	ALLYL CHLORIDE	2.826	76	202975	51.8274709	ppb		96
103)	tert-BUTYL ALCOHOL	3.069	59	90865	53.7144790	ppb		99
104)	chloroprene	3.319	53	662364	51.0328760	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.434	59	233891	10.1592878	ppb		99
106)	PROPIONITRILE	4.109	54	449810	480.8801259	ppb		97
107)	Ethyl Acetate	3.811	43	637379	97.3337461	ppb		99
108)	METHACRYLONITRILE	4.122	67	1353447	493.5983482	ppb		100
109)	Cyclohexane	3.750	84	175861	10.2305339	ppb		100
110)	tert-butyl formate	4.012	59	475135	100.6229880	ppb		99
111)	ISOBUTANOL	4.164	43	429870	991.9746764	ppb		99
112)	t-Amyl Alcohol	4.231	59	27237	45.5133784	ppb		98
113)	TERT-AMYL METHYL ETHER	4.140	73	240455	9.9637841	ppb	#	99
115)	N-BUTANOL	4.560	56	369673	1779.2603720	ppb		97
116)	Methyl Cyclohexane	4.432	83	204871	10.2808969	ppb		98
117)	2-nitropropane	5.436	43	83953	47.5704034	ppb		99
118)	METHYL METHACRYLATE	4.821	41	332707	48.5381803	ppb		96
119)	1,4-DIOXANE	4.876	88	60574	933.5654525	ppb		94
120)	n-octane	5.138	85	79700	10.0217490	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.020	57	65852	82.2164100	ppb		95
123)	ETHYL METHACRYLATE	5.612	69	389589	46.6576377	ppb	#	18
124)	CIS-1,4-DICHLORO-2-BUTENE	7.169	53	89910	46.0456358	ppb		98
125)	Cyclohexanone	7.431	55	130014	90.4998514	ppb		98
126)	PENTACHLOROETHANE	7.632	117	187299	48.8956617	ppb		99
127)	Hexachloroethane	8.307	117	45917	9.9613946	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 22.D
Acq On : 14 Oct 2015 1:52 am
Operator : 591
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:32:26 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 23.D
Acq On : 14 Oct 2015 2:12 am
Operator : 591
Sample : STD VMS 12.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:33:15 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

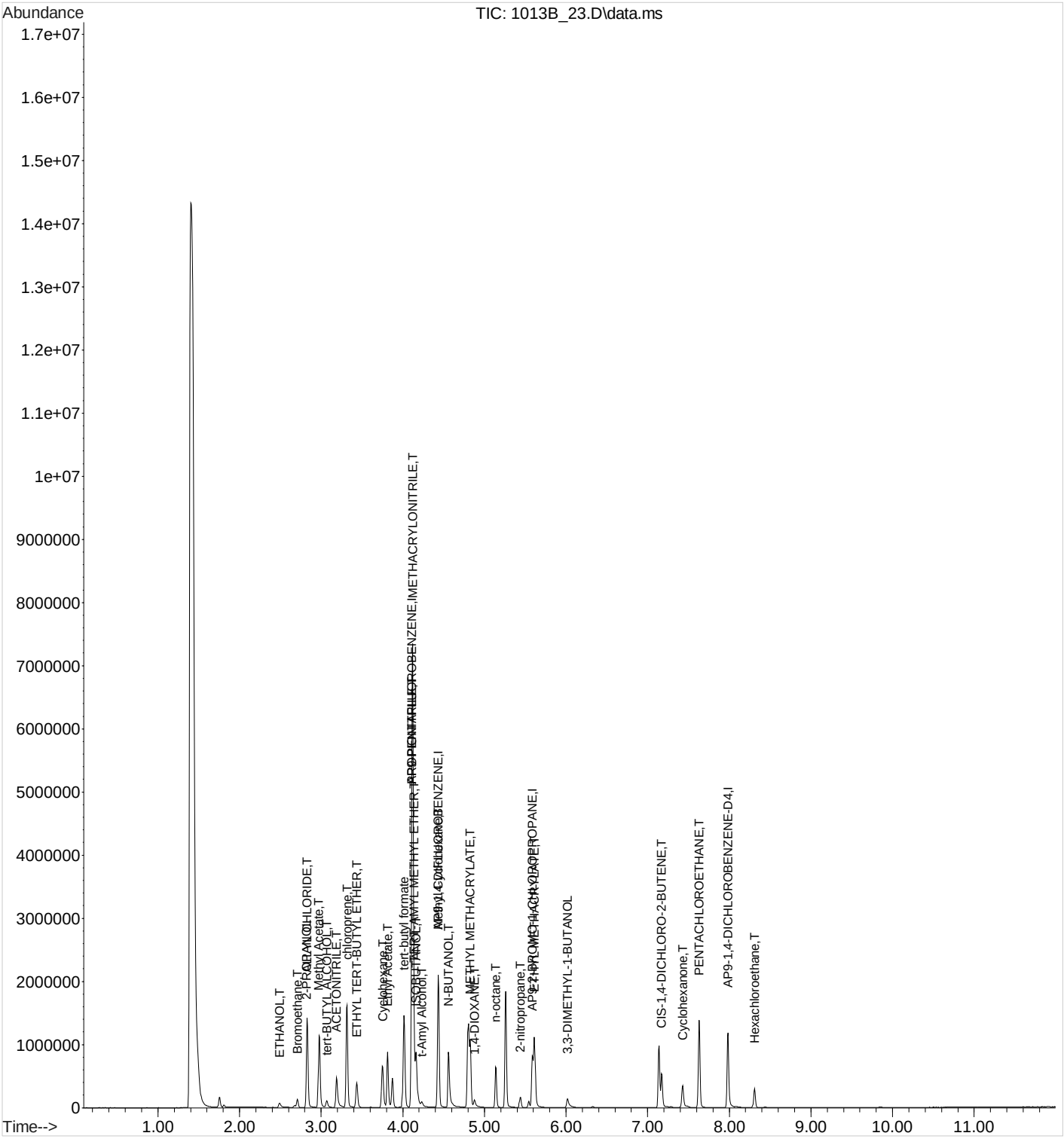
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96)	AP9-PENTAFLUOROBENZENE	4.109	168	440024	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.432	114	770553	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.588	79	131247	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.985	152	287644	40.0000000	ppb		0.00
	System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 79 - 121			Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 116			Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 90 - 115			Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
	Spiked Amount 40.000	Range 80 - 120			Recovery = 0.00%#			
	Target Compounds							Qvalue
97)	ETHANOL	2.491	45	98120	1398.5311571	ppb		97
98)	Bromoethane	2.710	108	80380	12.8169741	ppb		99
99)	2-PROPANOL	2.820	45	25073	60.9956682	ppb		97
100)	Methyl Acetate	2.972	43	1179387	238.6347055	ppb	#	100
101)	ACETONITRILE	3.185	41	471624	593.9742441	ppb		98
102)	ALLYL CHLORIDE	2.826	76	253936	64.6657847	ppb		97
103)	tert-BUTYL ALCOHOL	3.069	59	107219	63.2119662	ppb		99
104)	chloroprene	3.319	53	828774	63.6828150	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.434	59	291850	12.6427707	ppb		100
106)	PROPIONITRILE	4.109	54	539241	574.9412098	ppb		97
107)	Ethyl Acetate	3.811	43	768146	116.9882574	ppb		100
108)	METHACRYLONITRILE	4.122	67	1645684	598.5655274	ppb		98
109)	Cyclohexane	3.757	84	217935	12.6441184	ppb		99
110)	tert-butyl formate	4.012	59	596432	125.9719736	ppb		100
111)	ISOBUTANOL	4.164	43	523711	1205.2800125	ppb		98
112)	t-Amyl Alcohol	4.231	59	32615	54.3538106	ppb		92
113)	TERT-AMYL METHYL ETHER	4.140	73	299638	12.3828382	ppb	#	98
115)	N-BUTANOL	4.560	56	446549	2146.9740396	ppb		96
116)	Methyl Cyclohexane	4.432	83	252288	12.6468687	ppb		99
117)	2-nitropropane	5.436	43	101546	57.4776936	ppb		98
118)	METHYL METHACRYLATE	4.821	41	406090	59.1806520	ppb		98
119)	1,4-DIOXANE	4.876	88	76447	1176.9414642	ppb		99
120)	n-octane	5.138	85	100975	12.6833787	ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.020	57	83052	103.5799108	ppb		99
123)	ETHYL METHACRYLATE	5.612	69	485735	57.5623158	ppb	#	81
124)	CIS-1,4-DICHLORO-2-BUTENE	7.169	53	110312	55.9018312	ppb		96
125)	Cyclohexanone	7.431	55	151195	104.1400963	ppb		99
126)	PENTACHLOROETHANE	7.632	117	236381	61.0618887	ppb		99
127)	Hexachloroethane	8.307	117	56068	12.0360644	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 23.D
Acq On : 14 Oct 2015 2:12 am
Operator : 591
Sample : STD VMS 12.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:33:15 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 24.D
Acq On : 14 Oct 2015 2:33 am
Operator : 591
Sample : STD VMS 15a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:33:59 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

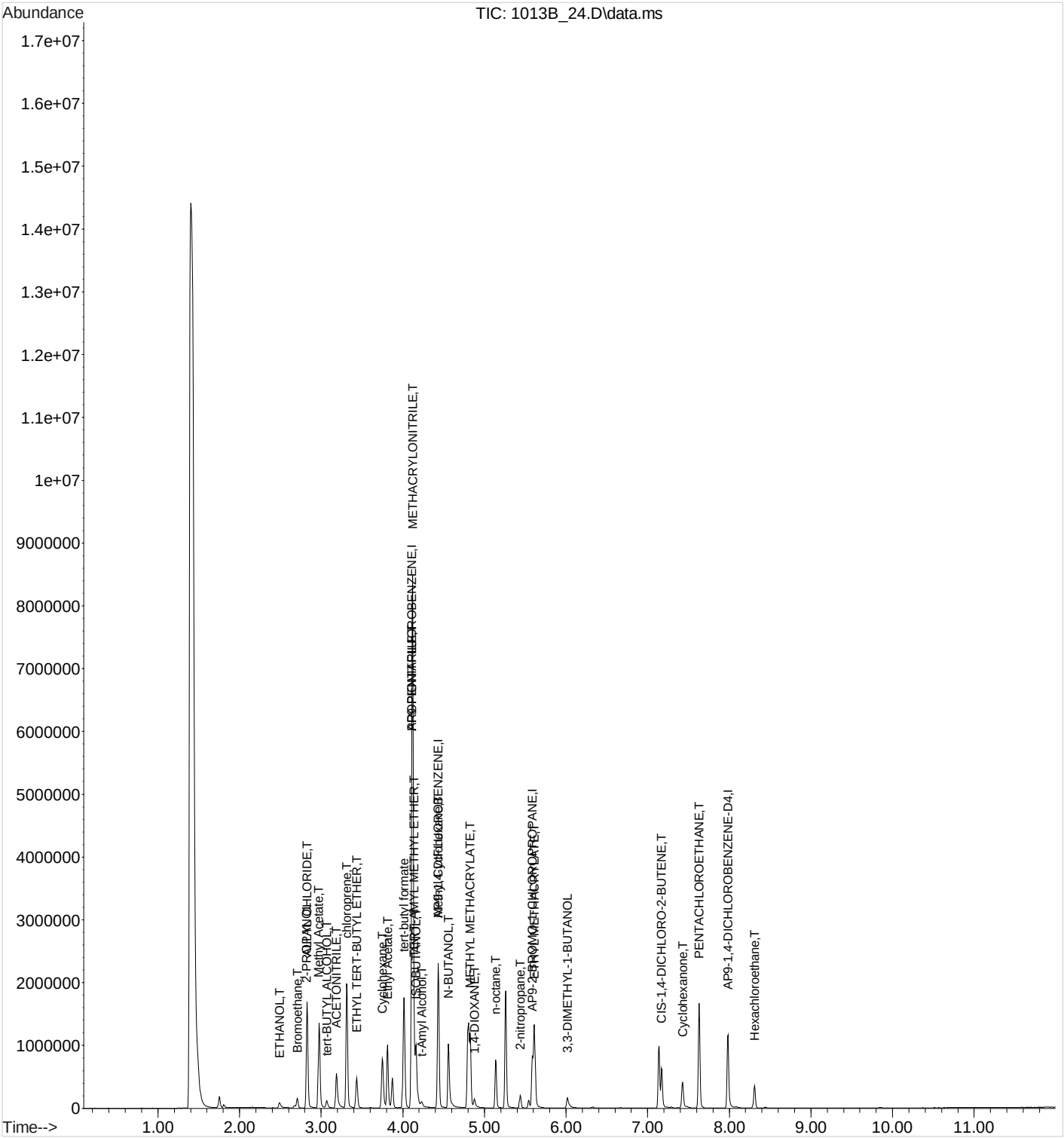
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96) AP9-PENTAFLUOROBENZENE	4.109	168	445438	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	780560	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	128732	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	282516	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#				
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#				
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#				
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#				
Target Compounds							Qvalue
97) ETHANOL	2.491	45	117358	1652.4046460	ppb		98
98) Bromoethane	2.710	108	95525	15.0467828	ppb		99
99) 2-PROPANOL	2.820	45	26702	64.1690463	ppb		97
100) Methyl Acetate	2.972	43	1343757	268.5883116	ppb	#	100
101) ACETONITRILE	3.185	41	539556	671.2701625	ppb		98
102) ALLYL CHLORIDE	2.826	76	299009	75.2183217	ppb		99
103) tert-BUTYL ALCOHOL	3.069	59	110405	64.2991734	ppb		98
104) chloroprene	3.312	53	998175	75.7673197	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.434	59	342127	14.6406047	ppb		99
106) PROPIONITRILE	4.109	54	622341	655.4778906	ppb		96
107) Ethyl Acetate	3.811	43	886040	133.3033084	ppb		99
108) METHACRYLONITRILE	4.122	67	1891006	679.4339789	ppb		98
109) Cyclohexane	3.750	84	258020	14.7878161	ppb		98
110) tert-butyl formate	4.012	59	719370	150.0909203	ppb		100
111) ISOBUTANOL	4.164	43	595199	1353.1550186	ppb		96
112) t-Amyl Alcohol	4.231	59	37376	61.5310797	ppb		98
113) TERT-AMYL METHYL ETHER	4.140	73	350711	14.3173221	ppb	#	98
115) N-BUTANOL	4.560	56	513950	2439.3536414	ppb		99
116) Methyl Cyclohexane	4.432	83	291832	14.4416079	ppb		99
117) 2-nitropropane	5.436	43	114923	64.2154736	ppb		98
118) METHYL METHACRYLATE	4.821	41	464960	66.8912431	ppb		99
119) 1,4-DIOXANE	4.876	88	87999	1337.4217356	ppb		97
120) n-octane	5.138	85	119639	14.8350870	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.020	57	93346	114.9257572	ppb		96
123) ETHYL METHACRYLATE	5.612	69	572225	69.1366856	ppb		88
124) CIS-1,4-DICHLORO-2-BUTENE	7.169	53	126955	65.5927674	ppb		93
125) Cyclohexanone	7.431	55	177899	124.9271755	ppb		100
126) PENTACHLOROETHANE	7.632	117	283160	74.5748589	ppb		99
127) Hexachloroethane	8.307	117	67199	14.7073733	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 24.D
Acq On : 14 Oct 2015 2:33 am
Operator : 591
Sample : STD VMS 15a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:33:59 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 25.D
Acq On : 14 Oct 2015 2:53 am
Operator : 591
Sample : STD VMS 17.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:35:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

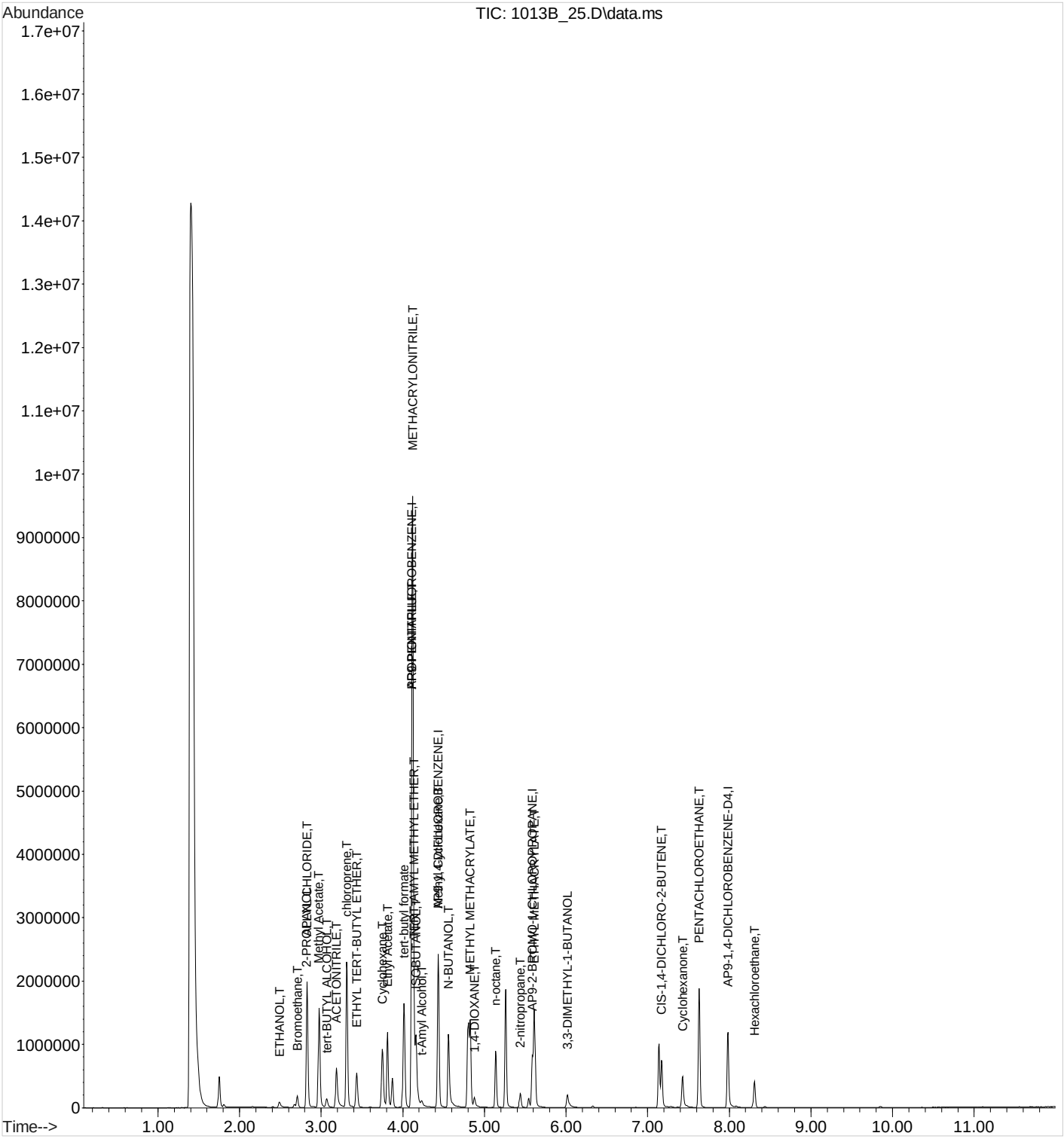
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.11
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.43
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.59
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.98
96) AP9-PENTAFLUOROBENZENE	4.110	168	442466	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	761031	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	128563	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	285297	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#				
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#				
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#				
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#				
Target Compounds							Qvalue
97) ETHANOL	2.491	45	120458	1707.4449690	ppb		99
98) Bromoethane	2.710	108	109294	17.3312659	ppb		100
99) 2-PROPANOL	2.820	45	29684	71.8144065	ppb		96
100) Methyl Acetate	2.972	43	1562602	314.4286455	ppb	#	100
101) ACETONITRILE	3.185	41	628487	787.1626434	ppb		98
102) ALLYL CHLORIDE	2.826	76	347126	87.9091097	ppb		99
103) tert-BUTYL ALCOHOL	3.069	59	142124	83.3280904	ppb		97
104) chloroprene	3.313	53	1150389	87.9077805	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.434	59	396063	17.0625249	ppb		99
106) PROPIONITRILE	4.110	54	715375	758.5264902	ppb		96
107) Ethyl Acetate	3.811	43	1029613	155.9441101	ppb		100
108) METHACRYLONITRILE	4.122	67	2209243	799.1074923	ppb		98
109) Cyclohexane	3.751	84	303318	17.5007320	ppb		100
110) tert-butyl formate	4.012	59	685424	143.9689259	ppb		100
111) ISOBUTANOL	4.164	43	694772	1590.1387710	ppb		96
112) t-Amyl Alcohol	4.231	59	41124	68.1560519	ppb		93
113) TERT-AMYL METHYL ETHER	4.140	73	405412	16.6615871	ppb	#	99
115) N-BUTANOL	4.560	56	605485	2947.5503229	ppb		98
116) Methyl Cyclohexane	4.432	83	346309	17.5772270	ppb		99
117) 2-nitropropane	5.436	43	133862	76.7174200	ppb		100
118) METHYL METHACRYLATE	4.821	41	543973	80.2666176	ppb		100
119) 1,4-DIOXANE	4.876	88	95721	1492.1133337	ppb		96
120) n-octane	5.138	85	136984	17.4217232	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.020	57	114111	144.0963953	ppb		99
123) ETHYL METHACRYLATE	5.612	69	664162	80.3500720	ppb		94
124) CIS-1,4-DICHLORO-2-BUTENE	7.170	53	154130	79.7377251	ppb		95
125) Cyclohexanone	7.431	55	211472	148.6985746	ppb		99
126) PENTACHLOROETHANE	7.632	117	326823	86.1873777	ppb		100
127) Hexachloroethane	8.307	117	81044	17.7608478	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 25.D
Acq On : 14 Oct 2015 2:53 am
Operator : 591
Sample : STD VMS 17.5a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:35:08 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 26.D
Acq On : 14 Oct 2015 3:14 am
Operator : 591
Sample : STD VMS 20a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:35:54 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration

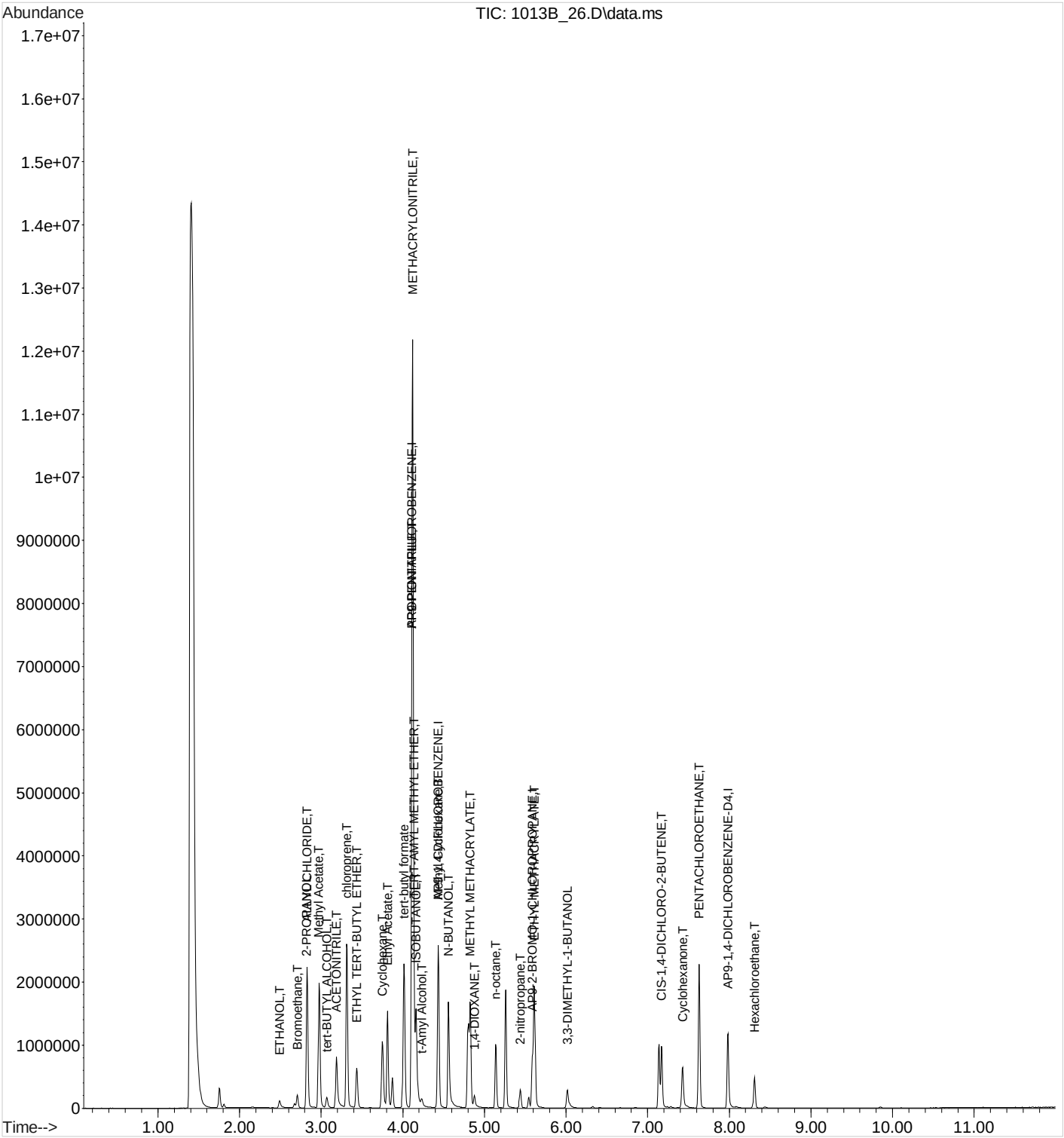
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.11
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.43
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.59
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.98
96) AP9-PENTAFLUOROBENZENE	4.109	168	441938	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	757694	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	127366	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	286724	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.491	45	140929	2000.0000000	ppb	100
98) Bromoethane	2.710	108	125973	20.0000000	ppb	100
99) 2-PROPANOL	2.820	45	41285	100.0000000	ppb	100
100) Methyl Acetate	2.972	43	1985490	400.0000000	ppb #	100
101) ACETONITRILE	3.185	41	797468	1000.0000000	ppb	100
102) ALLYL CHLORIDE	2.826	76	394398	100.0000000	ppb	100
103) tert-BUTYL ALCOHOL	3.069	59	170356	100.0000000	ppb	100
104) chloroprene	3.312	53	1307070	100.0000000	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.434	59	463695	20.0000000	ppb	100
106) PROPIONITRILE	4.109	54	941986	1000.0000000	ppb	100
107) Ethyl Acetate	3.811	43	1318914	200.0000000	ppb	100
108) METHACRYLONITRILE	4.122	67	2760627	999.7421541	ppb	100
109) Cyclohexane	3.750	84	346221	20.0000000	ppb	100
110) tert-butyl formate	4.012	59	951047	200.0000000	ppb	100
111) ISOBUTANOL	4.164	43	872808	2000.0000000	ppb	100
112) t-Amyl Alcohol	4.231	59	60266	100.0000000	ppb	100
113) TERT-AMYL METHYL ETHER	4.140	73	486062	20.0000000	ppb #	100
115) N-BUTANOL	4.560	56	818076	4000.0000000	ppb	100
116) Methyl Cyclohexane	4.432	83	392315	20.0000000	ppb	100
117) 2-nitropropane	5.436	43	173722	100.0000000	ppb	100
118) METHYL METHACRYLATE	4.821	41	674736	100.0000000	ppb	100
119) 1,4-DIOXANE	4.876	88	127624	1998.1838109	ppb	100
120) n-octane	5.137	85	156567	20.0000000	ppb	100
121) 3,3-DIMETHYL-1-BUTANOL	6.020	57	157008	199.1388003	ppb	100
123) ETHYL METHACRYLATE	5.612	69	818883	99.9992149	ppb	100
124) CIS-1,4-DICHLORO-2-BUTENE	7.169	53	191495	99.9992149	ppb	100
125) Cyclohexanone	7.431	55	281780	199.9984297	ppb	100
126) PENTACHLOROETHANE	7.632	117	375667	99.9992149	ppb	100
127) Hexachloroethane	8.307	117	90411	19.9998430	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 26.D
Acq On : 14 Oct 2015 3:14 am
Operator : 591
Sample : STD VMS 20a ppb 15H20824
Misc : water IS/SURR15D18333
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:35:54 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:27:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 29.D
Acq On : 14 Oct 2015 4:15 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:03:22 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

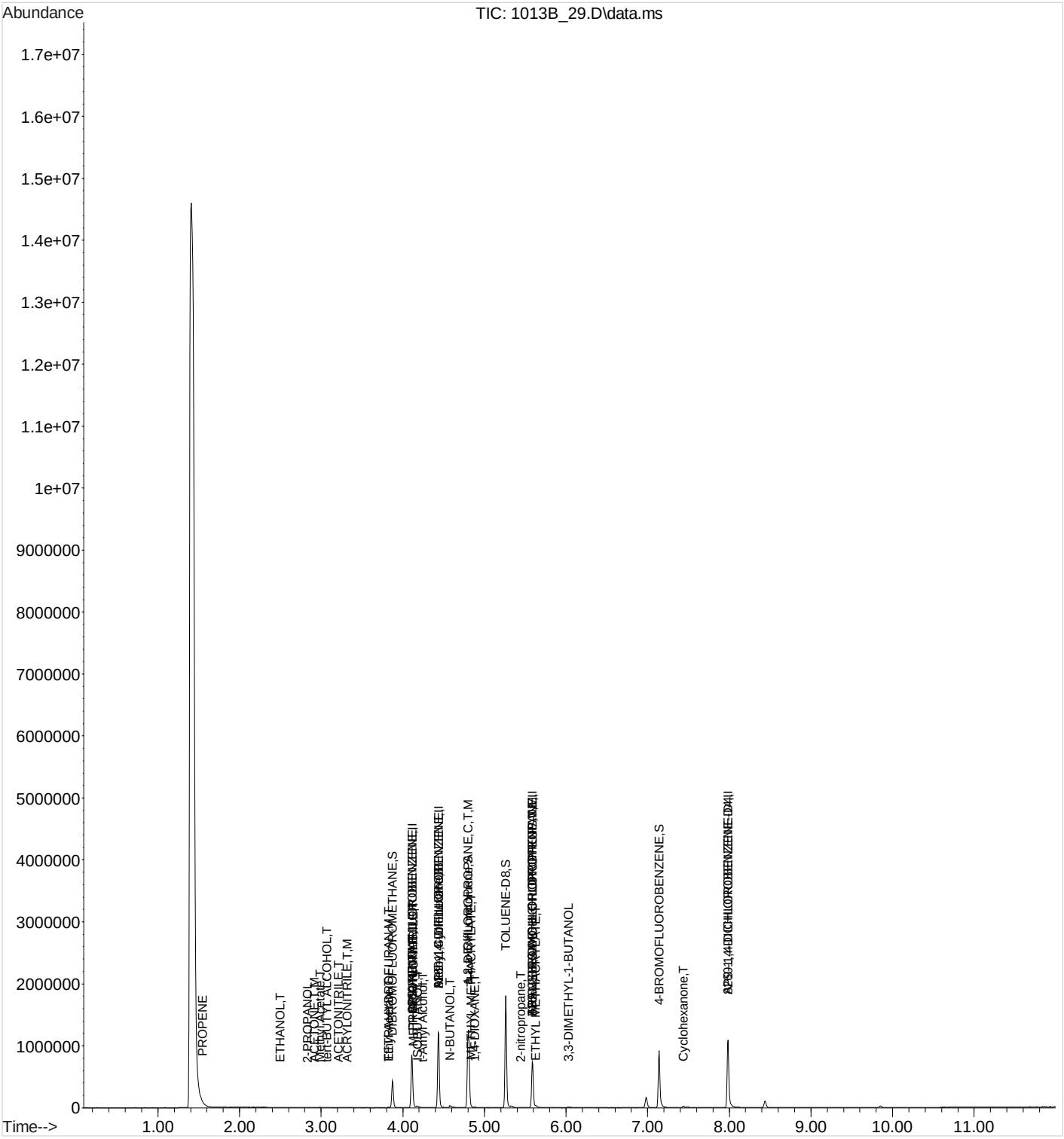
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.116	168	422101	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.438	114	740814	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	123609	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	269297	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.116	168	422101	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.438	114	740814	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	123609	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.985	152	269297	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	208314	38.9558132	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.39%			
46) a,a,a-Trifluorotoluene	4.803	146	396079	41.5640968	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.91%			
50) TOLUENE-D8	5.259	98	952968	41.0477155	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.62%			
68) 4-BROMOFLUOROBENZENE	7.139	95	314820	40.0143638	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.04%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -3648711m		Below Cal		
3) PROPENE	1.542	41	1044	0.4479018	ppb #	52
16) ACETONE	2.917	43	5913	1.8148767	ppb	96
20) ACRYLONITRILE	3.319	53	683	0.3586520	ppb #	18
31) TETRAHYDROFURAN	3.824	42	635	0.3473074	ppb #	34
43) 1,2-DICHLOROPROPANE	4.803	62	7505	1.3792625	ppb #	1
52) TRANS-1,3-DICHLOROPROPENE	5.588	75	6630	0.7315427	ppb #	1
97) ETHANOL	2.497	45	1856	24.4349850	ppb #	79
99) 2-PROPANOL	2.832	45	669	1.7455517	ppb #	54
100) Methyl Acetate	2.984	43	9429	2.0834176	ppb #	96
101) ACETONITRILE	3.209	41	2903	4.0753243	ppb #	97
103) tert-BUTYL ALCOHOL	3.069	59	3495	2.2322217	ppb #	78
106) PROPIONITRILE	4.122	54	6935	8.4477771	ppb #	18
107) Ethyl Acetate	3.824	43	12017	2.0540219	ppb #	95
108) METHACRYLONITRILE	4.128	67	9919	3.9514621	ppb	83
111) ISOBUTANOL	4.183	43	19814	49.7249590	ppb	98
112) t-Amyl Alcohol	4.243	59	1306	2.6130343	ppb	86
115) N-BUTANOL	4.578	56	22942	138.7672668	ppb	97
116) Methyl Cyclohexane	4.438	83	9011	0.4399732	ppb #	43
117) 2-nitropropane	5.442	43	2138	1.3714572	ppb #	81
118) METHYL METHACRYLATE	4.833	41	6279	1.0185490	ppb #	17
119) 1,4-DIOXANE	4.882	88	2354	41.0476519	ppb #	94
121) 3,3-DIMETHYL-1-BUTANOL	6.032	57	12425	20.8701395	ppb	95
123) ETHYL METHACRYLATE	5.630	69	12129	1.6930947	ppb #	97
125) Cyclohexanone	7.437	55	14166	12.4852652	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 29.D
Acq On : 14 Oct 2015 4:15 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR15D18333
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 10:03:22 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Instrument: VOCMS18
Method: V818K11O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1013B_03.D	.25	10/13/2015 6:48:00 PM
1013B_04.D	.5	10/13/2015 7:08:00 PM
1013B_05.D	1	10/13/2015 7:28:00 PM
1013B_06.D	2	10/13/2015 7:48:00 PM
1013B_07.D	5.0	10/13/2015 8:09:00 PM
1013B_08.D	10	10/13/2015 8:29:00 PM
1013B_09.D	25	10/13/2015 8:49:00 PM
1013B_10.D	40	10/13/2015 9:09:00 PM
1013B_11.D	75	10/13/2015 9:30:00 PM
1013B_12.D	100	10/13/2015 9:50:00 PM
1013B_13.D	200	10/13/2015 10:11:00 PM
1013B_18.D	1A	10/14/2015 12:30:00 AM
1013B_19.D	2.5A	10/14/2015 12:51:00 AM
1013B_20.D	5A	10/14/2015 1:11:00 AM
1013B_21.D	7.5A	10/14/2015 1:31:00 AM
1013B_22.D	10A	10/14/2015 1:52:00 AM
1013B_23.D	12A	10/14/2015 2:12:00 AM
1013B_24.D	15A	10/14/2015 2:33:00 AM
1013B_25.D	17A	10/14/2015 2:53:00 AM
1013B_26.D	20A	10/14/2015 3:14:00 AM
1111a_04.D	.4	11/11/2015 11:21:00 PM
1111a_05.D	1	11/11/2015 11:41:00 PM
1111a_06.D	2	11/12/2015 12:01:00 AM
1111a_07.D	4	11/12/2015 12:22:00 AM
1111a_08.D	5.0	11/12/2015 12:42:00 AM
1111a_09.D	7	11/12/2015 1:02:00 AM
1111a_10.D	10	11/12/2015 1:22:00 AM
1111a_11.D	20	11/12/2015 1:42:00 AM

Mint Miner 2.6.4 Directory Scan: z:\111115a

12 Nov 2015 11:41

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111115a\1111a_01.D					
Original Path: 1111a_01.D					
0	Scanned		189	VOCMS18	INSTBLK (water 15J30547)
Scan File Path: z:\111115a\1111a_02.D					
Original Path: C:\msdchem\1\data\111115a\1111a_02.D\data.ms					
0	Scanned		189	VOCMS18	INSTBLK (water 15J30547)
Scan File Path: z:\111115a\1111a_03.D					
Original Path: C:\msdchem\1\data\111115a\1111a_03.D\data.ms					
1	Scanned	M(1)	189	VOCMS18	LOD GROMS .2 ppm 15K06943 (water 15J3054
Scan File Path: z:\111115a\1111a_04.D					
Original Path: C:\msdchem\1\data\111115a\1111a_04.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS .4 ppm 15K06943 (water 15J3054
Scan File Path: z:\111115a\1111a_05.D					
Original Path: C:\msdchem\1\data\111115a\1111a_05.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 1 ppm 15K06943 (water 15J30547
Scan File Path: z:\111115a\1111a_06.D					
Original Path: C:\msdchem\1\data\111115a\1111a_06.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 2 ppm 15K06943 (water 15J30547
Scan File Path: z:\111115a\1111a_07.D					
Original Path: C:\msdchem\1\data\111115a\1111a_07.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 4 ppm 15K06943 (water 15J30547
Scan File Path: z:\111115a\1111a_08.D					
Original Path: C:\msdchem\1\data\111115a\1111a_08.D					
1	Scanned	M(1)	189	VOCMS18	MSTD GROMS 5.0 ppm 15K06943 (water 15J3
Scan File Path: z:\111115a\1111a_09.D					
Original Path: C:\msdchem\1\data\111115a\1111a_09.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 7 ppm 15K06943 (water 15J30547
Scan File Path: z:\111115a\1111a_10.D					
Original Path: C:\msdchem\1\data\111115a\1111a_10.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 10 ppm 15K06943 (water 15J3054
Scan File Path: z:\111115a\1111a_11.D					
Original Path: C:\msdchem\1\data\111115a\1111a_11.D					
1	Scanned	M(1)	189	VOCMS18	STD GROMS 20 ppm 15K06943 (water 15J3054

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111115a\1111a_12.D					
Original Path: C:\msdchem\1\data\111115a\1111a_12.D\data.ms					
0	Scanned		189	VOCMS18	INSTBLK (water 15J30547)
Scan File Path: z:\111115a\1111a_13.D					
Original Path: C:\msdchem\1\data\111115a\1111a_13.D\data.ms					
1	Scanned	M(1)	189	VOCMS18	SSCV GROMS 5.0 ppm 15K06944 (water 15J30

M = Manual integration (non-specific)

ScanSummary.rpt

Total Files Scanned	13	Beginning Analyzed Date	11/11/2015 10:20:00PM
Methods	0	Ending Analyzed Date	11/12/2015 2:23:00AM
Samples	12	Analyzed Range	4 hours, 3 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 : VOCMS18
Computer Name : VOCCOMPAF
Released By : Amy Green
Date Released : 11/12/2015 8:49:51 AM
Run ID : 101315b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1013B_01	INSTBLK	V818J13O						1	1	10/13/15 1808	"water IS/SURR15D18333"
2	1013B_01	INSTBLK	V818J13O							1	10/13/15 1808	
3	1013B_04	STD VMS .5 PPB 15J05152	V818J13O						1	1	10/13/15 1908	"water IS/SURR15D18333"
4	1013B_05	STD VMS 1 PPB 15J05152	V818J13O						1	1	10/13/15 1928	"water IS/SURR15D18333"
5	1013B_05 A	RL VMS 1 PPB 15J05152	V818J13O						1	1	10/13/15 1928	"water IS/SURR15D18333"
6	1013B_06	STD VMS 2 PPB 15J05152	V818J13O						1	1	10/13/15 1948	"water IS/SURR15D18333"
7	1013B_06 A	RL VMS 2 PPB 15J05152	V818J13O						1	1	10/13/15 1948	"water IS/SURR15D18333"
8	1013B_07	STD VMS 5 PPB 15J05152	V818J13O						1	1	10/13/15 2009	"water IS/SURR15D18333"
9	1013B_07 A	RL VMS 5.0 PPB 15J05152	V818J13O						1	1	10/13/15 2009	"water IS/SURR15D18333"
10	1013B_08	STD VMS 10 PPB 15J05152	V818J13O						1	1	10/13/15 2029	"water IS/SURR15D18333"
11	1013B_09	MSTD VMS 25 PPB 15J05152	V818J13O						1	1	10/13/15 2049	"water IS/SURR15D18333"
12	1013B_10	STD VMS 40 PPB 15J05152	V818J13O						1	1	10/13/15 2109	"water IS/SURR15D18333"
13	1013B_11	STD VMS 75 PPB 15J05152	V818J13O						1	1	10/13/15 2130	"water IS/SURR15D18333"
14	1013B_12	STD VMS 100 PPB 15J05152	V818J13O						1	1	10/13/15 2150	"water IS/SURR15D18333"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Amy Green
Date Released : 11/12/2015 8:49:51 AM
Run ID : 101315b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1013B_13	STD VMS 200 PPB 15J05152	V818J13O						1	1	10/13/15 2211	"water IS/SURR15D18333"
16	1013B_14	INSTBLK	V818J13O						1	1	10/13/15 2231	"water IS/SURR15D18333"
17	1013B_15	SSCV VMS 25 PPB 15J11487	V818J13O						1	1	10/13/15 2251	"water IS/SURR15D18333"
18	1013B_18	STD VMS 1A PPB 15H20824	V818J13O						1	1	10/14/15 0030	"water IS/SURR15D18333"
19	1013B_18 A	RL VMS 1A PPB 15H20824	V818J13O						1	1	10/14/15 0030	"water IS/SURR15D18333"
20	1013B_19	STD VMS 2.5A PPB 15H20824	V818J13O						1	1	10/14/15 0051	"water IS/SURR15D18333"
21	1013B_20	STD VMS 5A PPB 15H20824	V818J13O						1	1	10/14/15 0111	"water IS/SURR15D18333"
22	1013B_21	STD VMS 7.5A PPB 15H20824	V818J13O						1	1	10/14/15 0131	"water IS/SURR15D18333"
23	1013B_22	MSTD VMS 10A PPB 15H20824	V818J13O						1	1	10/14/15 0152	"water IS/SURR15D18333"
24	1013B_23	STD VMS 12.5A PPB 15H20824	V818J13O						1	1	10/14/15 0212	"water IS/SURR15D18333"
25	1013B_24	STD VMS 15A PPB 15H20824	V818J13O						1	1	10/14/15 0233	"water IS/SURR15D18333"
26	1013B_25	STD VMS 17.5A PPB 15H20824	V818J13O						1	1	10/14/15 0253	"water IS/SURR15D18333"
27	1013B_26	STD VMS 20A PPB 15H20824	V818J13O						1	1	10/14/15 0314	"water IS/SURR15D18333"
28	1013B_28	SSCV VMS 10A PPB 15H19752	V818J13O						1	1	10/14/15 0355	"water IS/SURR15D18333"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Amy Green
Date Released : 11/12/2015 8:49:51 AM

Run ID : 101315b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
29	1013B_29	INSTBLK	V818J13O						1	1	10/14/15 0415	"water IS/SURR15D18333"
30	1013B_29	INSTBLK	V818J13O							1	10/14/15 0415	
31	1013B_42	SSCV GROMS 5.0 PPM 15J13588	V818J13O						1	1	10/14/15 1031	"water IS/SURR15D18333"
32	1111a_01	INSTBLK	V818K11O						1	1	11/11/15 2220	"water 15J30547"
33	1111a_01	INSTBLK	V818K11O							1	11/11/15 2220	
34	1111a_02	INSTBLK	V818K11O						1	1	11/11/15 2241	"water 15J30547"
35	1111a_03	LOD GROMS .2 PPM 15K06943	V818K11O						1	1	11/11/15 2301	"water 15J30547"
36	1111a_04	STD GROMS .4 PPM 15K06943	V818K11O						1	1	11/11/15 2321	"water 15J30547"
37	1111a_05	STD GROMS 1 PPM 15K06943	V818K11O						1	1	11/11/15 2341	"water 15J30547"
38	1111a_06	STD GROMS 2 PPM 15K06943	V818K11O						1	1	11/12/15 0001	"water 15J30547"
39	1111a_07	STD GROMS 4 PPM 15K06943	V818K11O						1	1	11/12/15 0022	"water 15J30547"
40	1111a_08	MSTD GROMS 5.0 PPM 15K06943	V818K11O						1	1	11/12/15 0042	"water 15J30547"
41	1111a_09	STD GROMS 7 PPM 15K06943	V818K11O						1	1	11/12/15 0102	"water 15J30547"
42	1111a_10	STD GROMS 10 PPM 15K06943	V818K11O						1	1	11/12/15 0122	"water 15J30547"
43	1111a_11	STD GROMS 20 PPM 15K06943	V818K11O						1	1	11/12/15 0142	"water 15J30547"

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

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Amy Green
Date Released : 11/12/2015 8:49:51 AM

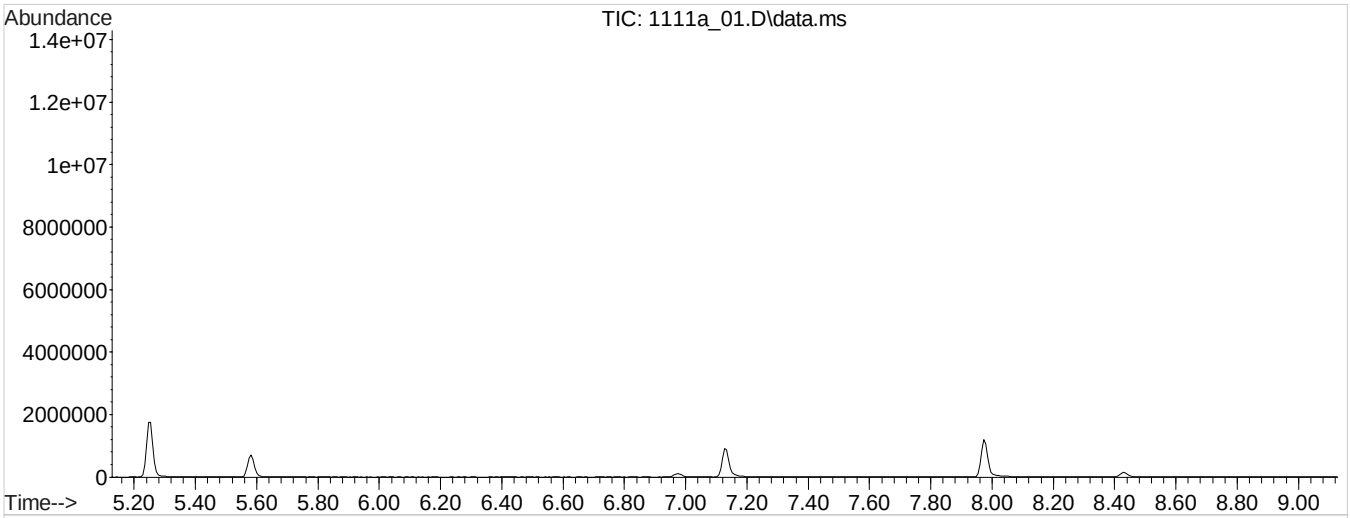
Run ID : 101315b
Signature : _____

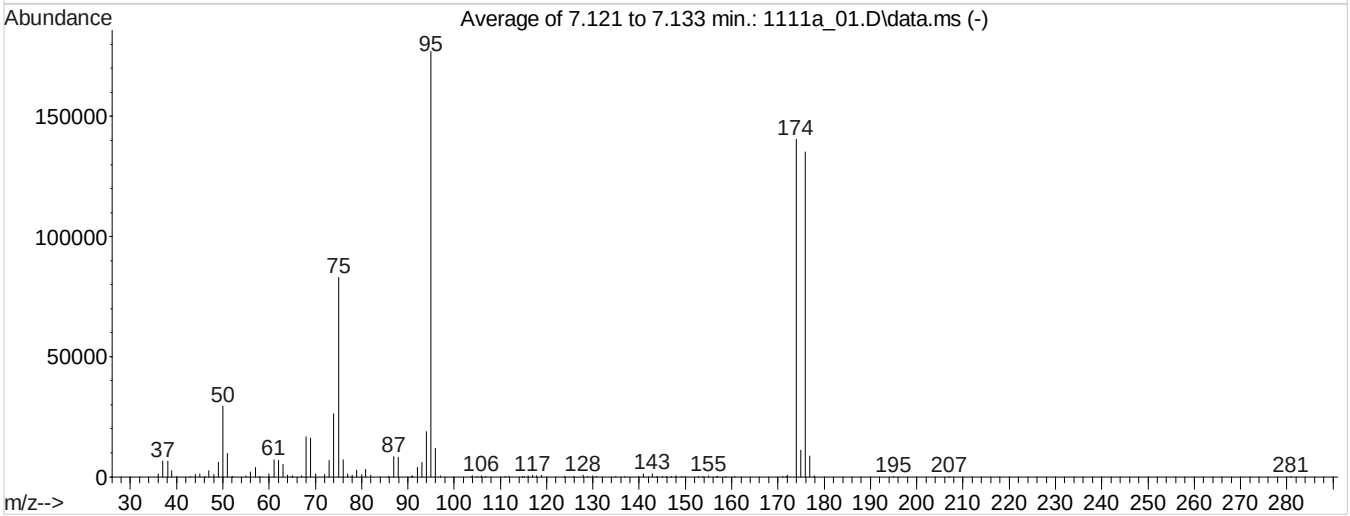
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
44	1111a_12	INSTBLK	V818K11O						1	1	11/12/15 0203	"water 15J30547"
45	1111a_13	SSCV GROMS 5.0 PPM 15K06944	V818K11O						1	1	11/12/15 0223	"water 15J30547"

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818K11O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





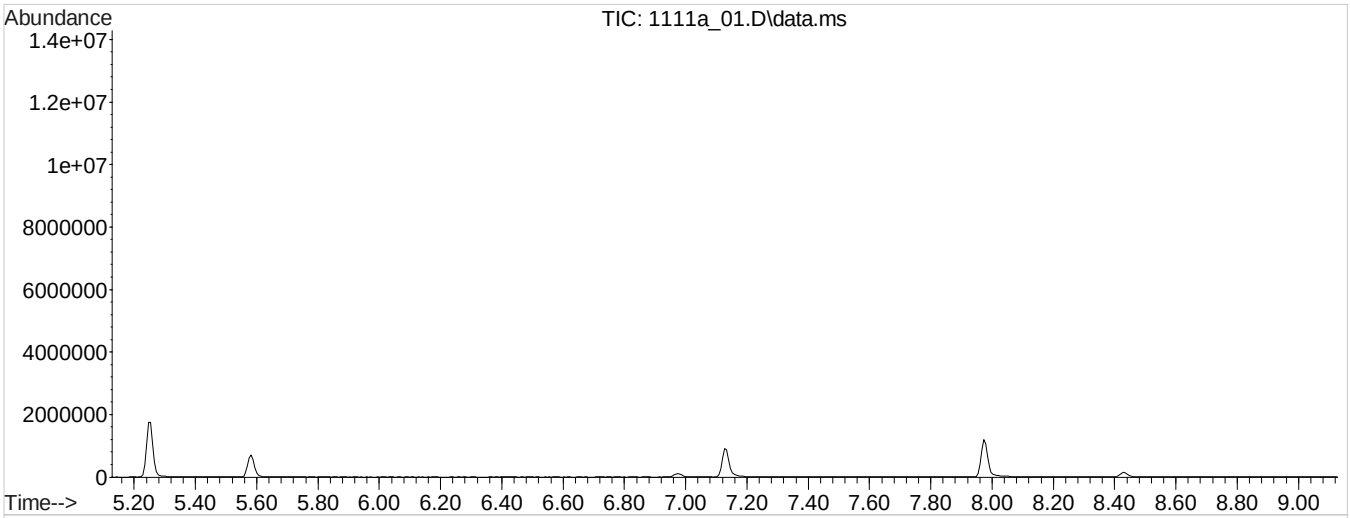
AutoFind: Scans 1157, 1158, 1159; Background Corrected with Scan 1150

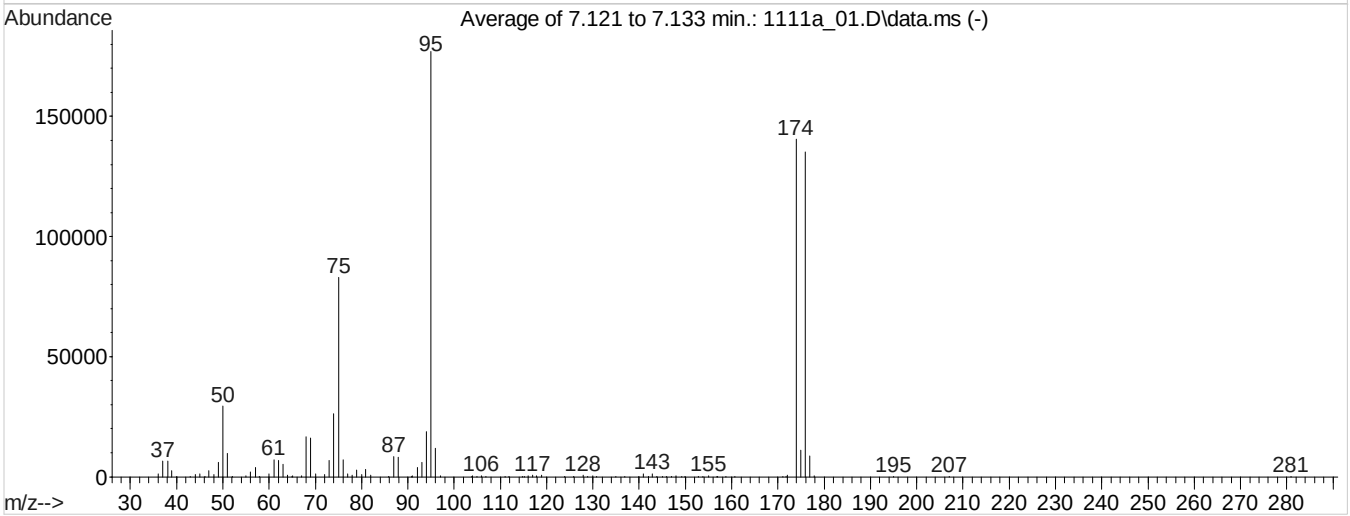
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	29491	PASS
75	95	30	60	46.8	82933	PASS
95	95	100	100	100.0	177088	PASS
96	95	5	9	6.6	11762	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	79.4	140608	PASS
175	174	5	9	7.9	11105	PASS
176	174	95	101	96.2	135309	PASS
177	176	5	9	6.4	8660	PASS

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818K11O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Oct 14 09:36:20 2015





AutoFind: Scans 1157, 1158, 1159; Background Corrected with Scan 1150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	29491	PASS
75	95	30	60	46.8	82933	PASS
95	95	100	100	100.0	177088	PASS
96	95	5	9	6.6	11762	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	79.4	140608	PASS
175	174	5	9	7.9	11105	PASS
176	174	95	101	96.2	135309	PASS
177	176	5	9	6.4	8660	PASS

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	1980	2321	2918	2898	2771	2727	2805	2765													2648.154	12.35	0.124	1
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SM 20th	Released On	: 11/12/2015 8:49:51 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
t-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
2-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	1980	2321	2918	2898	2771	2727	2805	2765													2648.154	12.35	0.124	1
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
n-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

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Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: EPA	Released On	: 11/12/2015 8:44:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
t-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
2-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 42.D
Acq On : 14 Oct 2015 10:31 am
Operator : 591
Sample : DNRSSCV GROMS 5.0 ppm 15J13588
Misc : water IS/SURR15D18333
ALS Vial : 42 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:53:27 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	442602	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	805423	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	131712	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	7.979	152	302750	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.109	168	442602	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.432	114	805423	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.588	79	131712	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	7.979	152	303079	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	212011	37.8107438 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.53%		
46) a,a,a-Trifluorotoluene	4.803	146	415513	40.1057185 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.26%		
50) TOLUENE-D8	5.259	98	1016899	40.2878089 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.72%		
68) 4-BROMOFLUOROBENZENE	7.133	95	362269	43.2125130 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.03%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	219128204m	6.3616855 ppm	
3) PROPENE	1.542	41	2248	0.9197751 ppb #	89
5) CHLOROMETHANE	1.773	50	4473	0.4628782 ppb #	67
7) 1,3-BUTADIENE	1.773	39	30994	3.6395295 ppb #	1
13) ACROLEIN	2.747	56	187181	200.2708604 ppb #	1
16) ACETONE	2.887	43	377779	110.5808860 ppb #	74
20) ACRYLONITRILE	3.379	53	83910	42.0212860 ppb #	42
21) n-Hexane	3.014	56	1274928	149.5101202 ppb #	75
23) METHYL TERT-BUTYL ETHER	3.033	73	20505	1.1728911 ppb #	1
24) 1,1-DICHLOROETHANE	3.373	63	9225	0.6381149 ppb #	1
25) VINYL ACETATE	3.471	43	18600	1.5129126 ppb #	87
27) 2,2-Dichloropropane	3.714	77	2644	0.3026270 ppb #	59
29) 2-BUTANONE (MEK)	3.945	43	216860	60.3055660 ppb #	54
31) TETRAHYDROFURAN	3.890	42	8508	4.4378317 ppb #	1
32) CHLOROFORM	3.757	83	57268	4.7757908 ppb #	26
34) 1,1,1-TRICHLOROETHANE	3.957	97	3006	0.3198420 ppb #	60
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	4327455	117.2092012 ppb	95
38) HEPTANE	4.049	43	2272682	129.4783885 ppb #	100
39) BENZENE	4.103	78	1166869	36.7452266 ppb	100
45) BROMODICHLOROMETHANE	4.803	83	11553	1.2558002 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.046	63	3018	1.0835556 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.484	43	186773	30.0280459 ppb #	43
51) TOLUENE	5.284	91	17434547	511.9031547 ppb #	62
52) TRANS-1,3-DICHLOROPROPENE	5.594	75	6351	0.6445453 ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.649	97	32018	6.4092025 ppb #	1
57) 2-HEXANONE	6.038	58	1421	1.7389915 ppb #	1
62) ETHYLBENZENE	6.293	106	1362180	136.1181477 ppb	99
63) M&P-XYLENE	6.391	106	3067511	244.5176918 ppb	99
64) O-XYLENE	6.695	106	1168062	100.2529130 ppb	98
65) STYRENE	6.731	104	27029	1.4951839 ppb #	31
67) Isopropylbenzene	6.914	105	321878	10.3288398 ppb	99
69) Bromobenzene	7.218	77	47248	3.1926811 ppb #	32
70) 1,1,2,2-TETRACHLOROETHANE	7.303	83	2155	0.3374724 ppb #	1

Quantitation Report (QT Reviewed)

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Acq On : 14 Oct 2015 10:31 am
Operator : 591
Sample : DNRSSCV GROMS 5.0 ppm 15J13588
Misc : water IS/SURR15D18333
ALS Vial : 42 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:53:27 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

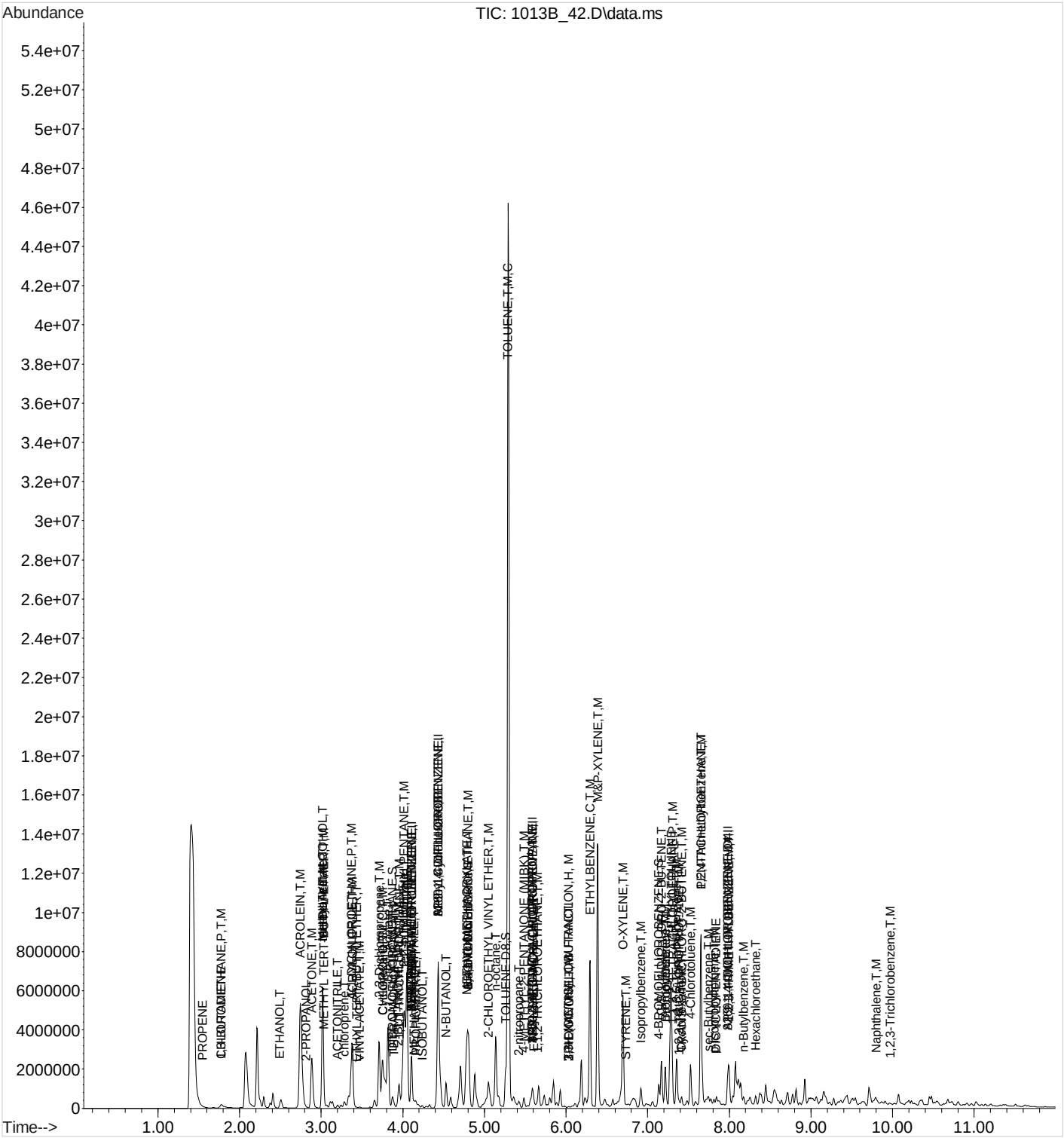
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	1,2,3-TRICHLOROPROPANE	7.382	110	2454	1.4861232	ppb	#	19
72)	TRANS-1,4-DICHLORO-2-B...	7.419	53	3021	3.3528793	ppb	#	26
73)	n-Propylbenzene	7.218	91	1274879	32.3197296	ppb		99
74)	4-ETHYLTOLUENE	7.285	105	4251813	140.8960492	ppb		97
76)	4-Chlorotoluene	7.522	91	119050	5.3634692	ppb	#	51
77)	1,3,5-Trimethylbenzene	7.352	105	1119568	42.7665225	ppb		100
79)	1,2,4-Trimethylbenzene	7.656	105	3815533	153.3371730	ppb		99
80)	sec-Butylbenzene	7.741	105	109934	3.2731474	ppb	#	75
82)	p-Isopropyltoluene	7.814	119	130536	5.0172901	ppb		95
83)	DICYCLOPENTADIENE	7.839	66	55594	1.5219253	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	7.997	105	823651	31.3684694	ppb		98
88)	n-Butylbenzene	8.173	91	107697	4.2143904	ppb	#	85
92)	Naphthalene	9.798	128	145505	8.9578783	ppb	#	84
93)	1,2,3-Trichlorobenzene	9.968	180	3508	0.5236803	ppb	#	12
97)	ETHANOL	2.491	45	36686	460.6143617	ppb	#	93
99)	2-PROPANOL	2.814	45	517	1.2864714	ppb	#	54
100)	Methyl Acetate	3.014	43	1610593	339.3903708	ppb	#	57
101)	ACETONITRILE	3.197	41	46773	62.6200443	ppb	#	48
103)	tert-BUTYL ALCOHOL	3.014	59	1908	1.1621750	ppb	#	1
104)	chloroprene	3.282	53	13986	1.0644366	ppb	#	26
105)	ETHYL TERT-BUTYL ETHER	3.434	59	12655	0.5417351	ppb		100
106)	PROPIONITRILE	4.164	54	12027	13.9719268	ppb	#	1
107)	Ethyl Acetate	3.817	43	2017045	328.7968221	ppb	#	47
108)	METHACRYLONITRILE	4.140	67	9505	3.6111461	ppb	#	1
109)	Cyclohexane	3.757	84	746832	42.9812938	ppb	#	53
110)	tert-butyl formate	4.012	59	4208	0.9033616	ppb	#	1
111)	ISOBUTANOL	4.237	43	2224	5.3227990	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.103	73	21215	0.8841952	ppb	#	84
115)	N-BUTANOL	4.529	56	228381	1270.5766883	ppb	#	53
116)	Methyl Cyclohexane	4.432	83	1796682	80.6881200	ppb	#	78
117)	2-nitropropane	5.423	43	79815	47.0916843	ppb	#	68
118)	METHYL METHACRYLATE	4.785	41	720231	107.4603881	ppb	#	30
119)	1,4-DIOXANE	4.803	88	5193	83.2885567	ppb	#	1
120)	n-octane	5.138	85	530609	64.5127713	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.032	57	23511	36.3232927	ppb	#	35
123)	ETHYL METHACRYLATE	5.606	69	86785	11.3690890	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.169	53	21728	12.5409764	ppb	#	8
125)	Cyclohexanone	7.413	55	31057	25.6882658	ppb	#	71
126)	PENTACHLOROETHANE	7.656	117	126362	33.9574482	ppb	#	13
127)	Hexachloroethane	8.319	117	4571	1.0040692	ppb	#	83

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 42.D
Acq On : 14 Oct 2015 10:31 am
Operator : 591
Sample : DNRSSCV GROMS 5.0 ppm 15J13588
Misc : water IS/SURR15D18333
ALS Vial : 42 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 09:53:27 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	1980	2321	2918	2898	2771	2727	2805	2765													2648.154	12.35	0.124	1
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

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Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
sec-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SC	Released On	: 11/12/2015 8:46:24 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
t-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
2-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	1980	2321	2918	2898	2771	2727	2805	2765													2648.154	12.35	0.124	1
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1
sec-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1
1-Methylnaphthalene																					0	0	0	1
2-Methylnaphthalene																					0	0	0	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1

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Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:47:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
t-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1
2-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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	1980	2321	2918	2898	2771	2727	2805	2765													2648.154	12.35	0.124	1	
PROPENE	0.218	0.309	0.261	0.202	0.201	0.211	0.205	0.196	0.208	0.21	0.21										0.220882	15.3	0.153	1	
DICHLORODIFLUOROMETHANE	0.361	0.475	0.543	0.457	0.459	0.507	0.492	0.506	0.484	0.496	0.495										0.47955	9.58	0.096	1	0.1
CHLOROMETHANE	0.756	0.873	0.919	0.894	0.864	0.908	0.888	0.876	0.871	0.875	0.883										0.873331	4.85	0.049	1	0.1
VINYL CHLORIDE	0.803	0.747	0.929	0.905	0.858	0.928	0.907	0.908	0.896	0.907	0.922										0.882788	6.58	0.066	1	0.1
1,3-BUTADIENE	0.698	0.812	0.766	0.795	0.74	0.785	0.765	0.76	0.768	0.776	0.8										0.769625	4.08	0.041	1	
BROMOMETHANE	0.455	0.452	0.52	0.508	0.509	0.546	0.558	0.54	0.55	0.536	0.482										0.514279	7.21	0.072	1	0.1
CHLOROETHANE	0.613	0.687	0.678	0.608	0.56	0.582	0.572	0.56	0.559	0.554	0.516										0.589889	8.96	0.09	1	0.1
TRICHLOROFLUOROMETHANE	0.693	0.835	0.887	0.864	0.81	0.907	0.878	0.884	0.88	0.887	0.891										0.856029	7.08	0.071	1	0.1
DICHLOROFLUOROMETHANE	1.008	1.17	1.295	1.254	1.229	1.308	1.306	1.291	1.297	1.303	1.301										1.251167	7.29	0.073	1	
ETHYL ETHER	0.418	0.544	0.588	0.58	0.531	0.589	0.568	0.571	0.552	0.563	0.575										0.552664	8.73	0.087	1	
ACROLEIN	0.084	0.078	0.065	0.089	0.071	0.091	0.076	0.083	0.087	0.1	0.104										0.084468	13.57	0.136	1	
1,1-DICHLOROETHENE	0.849	1.027	1.11	1.098	1.039	1.099	1.088	1.085	1.085	1.091	1.105										1.061431	7.07	0.071	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.5	0.556	0.596	0.622	0.595	0.632	0.61	0.614	0.605	0.615	0.632										0.597997	6.48	0.065	1	0.1
ACETONE			0.368	0.35	0.274	0.321	0.292	0.303	0.274	0.278	0.318										0.308748	10.93	0.109	1	0.1
IODOMETHANE	0.704	0.829	0.915	0.858	0.842	0.868	0.874	0.886	0.943	0.969	1.001										0.88074	9.03	0.09	1	
CARBON DISULFIDE	2.198	2.04	2.401	2.206	2.118	2.278	2.314	2.364	2.376	2.454	2.513										2.29666	6.3	0.063	1	0.1
METHYLENE CHLORIDE	0.689	0.669	0.722	0.701	0.61	0.678	0.657	0.659	0.644	0.649	0.657										0.666894	4.53	0.045	1	0.1
ACRYLONITRILE		0.147	0.151	0.169	0.166	0.192	0.19	0.197	0.186	0.193	0.215										0.180464	11.95	0.12	1	
n-Hexane	0.671	0.773	0.856	0.799	0.755	0.776	0.773	0.761	0.762	0.767	0.784										0.770658	5.63	0.056	1	
TRANS-1,2-DICHLOROETHENE	0.578	0.621	0.652	0.638	0.613	0.667	0.65	0.646	0.657	0.657	0.662										0.639988	4.15	0.041	1	0.1

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Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

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Parameter	.25	.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
METHYL TERT-BUTYL ETHER	1.389	1.523	1.577	1.607	1.458	1.651	1.608	1.647	1.6	1.624	1.696										1.579969	5.72	0.057	1	0.1
1,1-DICHLOROETHANE	1.104	1.192	1.304	1.353	1.316	1.35	1.344	1.343	1.347	1.358	1.362										1.306514	6.32	0.063	1	0.2
VINYL ACETATE	0.895	1.006	1.123	1.088	1.028	1.162	1.171	1.241	1.18	1.15	1.177										1.111081	8.94	0.089	1	
DI-ISOPROPYL ETHER	2.169	2.458	2.501	2.591	2.408	2.606	2.586	2.605	2.622	2.65	2.677										2.534033	5.77	0.058	1	
2,2-Dichloropropane	0.821	0.851	0.809	0.812	0.771	0.805	0.799	0.773	0.786	0.757	0.701										0.789588	4.99	0.05	1	
CIS-1,2-DICHLOROETHENE	0.668	0.607	0.687	0.667	0.656	0.694	0.682	0.689	0.691	0.694	0.701										0.676138	3.92	0.039	1	0.1
2-BUTANONE (MEK)	0.232	0.294	0.306	0.32	0.289	0.363	0.339	0.358	0.333	0.343	0.397										0.324989	13.66	0.137	1	0.1
BROMOCHLOROMETHANE	0.288	0.316	0.319	0.315	0.31	0.339	0.339	0.336	0.33	0.332	0.345										0.324353	5.14	0.051	1	
TETRAHYDROFURAN		0.138	0.196	0.163	0.159	0.182	0.173	0.176	0.168	0.176	0.202										0.173262	10.63	0.106	1	
CHLOROFORM	0.869	1.055	1.106	1.106	1.06	1.12	1.122	1.122	1.109	1.125	1.125										1.083711	6.97	0.07	1	0.2
DIBROMOFLUOROMETHANE	0.498	0.486	0.501	0.508	0.496	0.508	0.501	0.519	0.517	0.516	0.524										0.506745	2.22	0.022	1	
1,1,1-TRICHLOROETHANE	0.7	0.792	0.859	0.835	0.838	0.889	0.863	0.883	0.89	0.901	0.893										0.849376	6.98	0.07	1	0.1
CARBON TETRACHLORIDE	0.596	0.707	0.791	0.692	0.673	0.721	0.717	0.716	0.74	0.737	0.738										0.711477	6.86	0.069	1	0.1
1,1-Dichloropropene	0.737	0.844	0.978	0.965	0.911	0.945	0.942	0.939	0.943	0.949	0.963										0.919669	7.65	0.076	1	
2,2,4-TRIMETHYLPENTANE	3.091	3.119	3.434	3.311	3.239	3.444	3.378	3.459	3.391	3.39	3.448										3.336702	3.95	0.039	1	
HEPTANE	1.485	1.631	1.566	1.453	1.5	1.576	1.593	1.589	1.646	1.681	1.73										1.58631	5.31	0.053	1	
BENZENE	2.624	2.834	3.033	2.899	2.792	2.911	2.865	2.907	2.875	2.898	2.93										2.869907	3.53	0.035	1	0.5
1,2-DICHLOROETHANE	0.661	0.728	0.809	0.785	0.742	0.796	0.781	0.783	0.772	0.779	0.796										0.766621	5.5	0.055	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.272	0.322	0.347	0.335	0.332	0.346	0.346	0.34	0.345	0.342	0.348										0.334104	6.58	0.066	1	0.2
1,2-DICHLOROPROPANE	0.206	0.276	0.299	0.3	0.3	0.308	0.306	0.309	0.309	0.31	0.309										0.293802	10.39	0.104	1	0.1
DIBROMOMETHANE	0.135	0.153	0.177	0.172	0.167	0.18	0.179	0.184	0.176	0.18	0.182										0.171316	8.69	0.087	1	

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

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
BROMODICHLOROMETHANE	0.412	0.454	0.443	0.46	0.435	0.471	0.462	0.47	0.47	0.474	0.476										0.456888	4.35	0.043	1	0.2
a,a,a-Trifluorotoluene	0.529	0.533	0.528	0.519	0.518	0.515	0.512	0.511	0.505	0.506	0.484										0.514534	2.65	0.026	1	
-CHLOROETHYL VINYL ETHER		0.124	0.135	0.133	0.13	0.151	0.154	0.159	0.142	0.096	0.159										0.138326	13.99	0.14	1	
CIS-1,3-DICHLOROPROPENE	0.441	0.529	0.549	0.571	0.541	0.594	0.609	0.62	0.618	0.626	0.633										0.575704	10.03	0.1	1	0.2
-METHYL-2-PENTANONE (MIBK)		0.249	0.288	0.309	0.273	0.333	0.319	0.334	0.312	0.323	0.35										0.308904	10.01	0.1	1	0.1
TOLUENE-D8	1.261	1.28	1.277	1.262	1.26	1.268	1.256	1.26	1.243	1.232	1.19										1.253546	1.99	0.02	1	
TOLUENE	1.866	1.738	1.793	1.73	1.612	1.651	1.651	1.652	1.634	1.649	1.631										1.691449	4.74	0.047	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.409	0.43	0.424	0.442	0.495	0.529	0.53	0.531	0.54	0.564										0.489356	11.71	0.117	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.289	1.325	1.659	1.57	1.455	1.588	1.544	1.562	1.51	1.55	1.636										1.517137	7.77	0.078	1	0.1
TETRACHLOROETHENE	1.23	1.436	1.464	1.536	1.404	1.53	1.49	1.486	1.504	1.531	1.647										1.478079	7.01	0.07	1	0.2
1,3-Dichloropropane	2.422	3.128	3.05	3.104	2.914	3.078	3.055	3.099	3.019	3.103	3.261										3.021219	7.13	0.071	1	
2-HEXANONE	0.248	0.44	0.648	0.628	0.627	0.792	0.767	0.843	0.797	0.843											0.663383	29.1	0.998	0	0.1
CHLORODIBROMOMETHANE	1.257	1.3	1.489	1.413	1.34	1.555	1.536	1.578	1.56	1.63	1.729										1.489632	9.83	0.098	1	0.1
1,2-DIBROMOETHANE	1.258	1.27	1.38	1.321	1.372	1.485	1.45	1.489	1.444	1.485	1.575										1.411643	7.09	0.071	1	0.1
CHLOROBENZENE	4.448	5.335	5.007	5.327	4.964	5.367	5.374	5.447	5.464	5.644	6.081										5.314441	7.78	0.078	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.211	1.341	1.626	1.537	1.456	1.64	1.598	1.658	1.641	1.691	1.754										1.559351	10.44	0.104	1	
ETHYLBENZENE	2.445	2.739	2.977	3.046	2.908	3.074	3.074	3.168	3.193	3.269	3.539										3.039157	9.36	0.094	1	0.1
M&P-XYLENE	3.398	3.626	3.891	3.736	3.6	3.802	3.821	3.817	3.9	4.002	4.316										3.809873	6.21	0.062	1	0.1
O-XYLENE	3.196	3.353	3.489	3.545	3.398	3.577	3.624	3.568	3.598	3.714	3.859										3.538372	5.06	0.051	1	0.3
STYRENE		4.444	4.439	5.079	4.961	5.59	5.809	5.941	5.988	6.168	6.481										5.489971	13.1	0.131	1	0.3
Bromoform		0.828	0.702	0.74	0.698	0.86	0.849	0.876	0.87	0.923	1.015										0.836162	11.92	0.119	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
Isopropylbenzene	7.89	8.59	9.53	9.53	9.23	9.68	9.79	9.85	9.72	10.03	10.28										9.463989	7.2	0.072	1	0.1
4-BROMOFLUOROBENZENE	2.47	2.48	2.576	2.547	2.494	2.57	2.552	2.567	2.56	2.594	2.595										2.545988	1.74	0.017	1	
Bromobenzene	3.642	4.743	4.499	4.555	4.188	4.523	4.486	4.571	4.554	4.677	4.998										4.494305	7.66	0.077	1	
1,1,2,2-TETRACHLOROETHANE	1.42	1.694	1.991	2.012	1.833	2.104	2	2.05	1.959	2.03	2.24										1.939294	11.43	0.114	1	0.3
1,2,3-TRICHLOROPROPANE		0.471	0.484	0.528	0.441	0.511	0.506	0.523	0.488	0.504	0.56										0.501481	6.58	0.066	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.273	0.34	0.469	0.277	0.407	0.463	0.479	0.486	0.531											0.414012	23.05	0.997	0	
n-Propylbenzene	9.88	11.13	11.95	11.96	11.46	12.23	12.35	12.48	12.39	12.67	13.28										11.97942	7.55	0.075	1	
4-ETHYLTOLUENE	7.43	8.309999	8.79	8.95	8.84	9.52	9.54	9.77	9.66	9.74	10.25										9.16453	8.74	0.087	1	
2-Chlorotoluene	1.469	1.888	2.033	2.13	1.988	2.145	2.16	2.141	2.164	2.231	2.388										2.067025	11.46	0.115	1	
4-Chlorotoluene	5.811	6.158	6.8	6.637	6.381	6.929	6.873	6.987	7.012	7.082	7.481										6.740906	6.96	0.07	1	
1,3,5-Trimethylbenzene	6.013	8.259	7.865	7.957	7.755	8.083	8.092	8.2	8.102	8.34	8.786										7.950257	8.78	0.088	1	
tert-Butylbenzene	4.692	5.767	6.159	6.257	6.05	6.536	6.464	6.504	6.394	6.547	6.63										6.181761	9.01	0.09	1	
1,2,4-Trimethylbenzene	6.525	6.899	7.486	7.522	7.209	7.945	7.831	7.864	7.735	7.911	8.199										7.556878	6.64	0.066	1	
sec-Butylbenzene	8.73	8.85	10.56	10.39	10.03	10.81	10.6	10.74	10.35	10.53	10.61										10.20002	7.13	0.071	1	
1,3-DICHLOROBENZENE	2.512	3.414	3.477	3.653	3.549	3.894	3.833	3.837	3.82	3.911	4.147										3.640562	11.85	0.119	1	0.6
p-Isopropyltoluene	6.233	7.098	7.62	7.807	7.588	8.363	8.418	8.463	8.134	8.412	8.778										7.901249	9.38	0.094	1	
DICYCLOPENTADIENE	8.8	9.929999	11.18	11.19	10.73	11.67	11.58	11.65	11.48	11.86	11.96										11.09352	8.59	0.086	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.687	1.67	1.727	1.72	1.609	1.718	1.682	1.673	1.684	1.698	1.794										1.696523	2.69	0.027	1	
1,2,3-TRIMETHYLBENZENE	3.202	3.265	3.447	3.692	3.406	3.554	3.51	3.507	3.483	3.531	3.564										3.469171	3.98	0.04	1	
1,2-DICHLOROBENZENE	1.246	1.538	1.541	1.608	1.513	1.578	1.516	1.559	1.522	1.53	1.56										1.519136	6.25	0.063	1	0.4
sec-Butylbenzene	2.109	3.029	3.254	3.435	3.565	3.751	3.771	3.709	3.539	3.525	3.453										3.376328	14.03	0.14	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Amy Green
Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
1,2-Dibromo-3-chloropropane		0.015	0.097	0.105	0.099	0.131	0.123	0.124	0.125	0.132	0.145										0.109658	33.39	0.995	0	0.05
1,2,4-Trichlorobenzene	0.658	0.715	0.87	0.871	0.908	1.014	0.996	1.02	0.959	0.95	0.883										0.894976	13.08	0.131	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.463	0.552	0.607	0.548	0.583	0.595	0.566	0.565	0.481	0.478	0.416										0.532155	11.72	0.117	1	
Naphthalene	2.125	2.025	2.016	2.076	1.93	2.226	2.153	2.298	2.201	2.308	2.249										2.146093	5.76	0.058	1	
1,2,3-Trichlorobenzene	0.849	0.961	0.915	0.877	0.85	0.946	0.895	0.943	0.851	0.867	0.781										0.885053	6.05	0.061	1	
1-Methylnaphthalene																					0	0	0	1	
2-Methylnaphthalene																					0	0	0	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.008	0.008	0.006	0.008	0.008	0.007	0.007	0.006	0.006	0.007198	10.58	0.106	1	
Bromoethane												0.609	0.583	0.588	0.566	0.584	0.585	0.572	0.565	0.57	0.580142	2.39	0.024	1	
2-PROPANOL												0.041	0.037	0.04	0.034	0.039	0.036	0.032	0.031	0.037	0.036319	9.89	0.099	1	
Methyl Acetate												0.437	0.425	0.436	0.433	0.445	0.429	0.402	0.404	0.449	0.428877	3.85	0.039	1	0.1
ACETONITRILE												0.064	0.066	0.067	0.068	0.071	0.069	0.065	0.065	0.072	0.067504	4.12	0.041	1	
ALLYL CHLORIDE												0.351	0.356	0.36	0.357	0.37	0.369	0.358	0.359	0.357	0.359594	1.76	0.018	1	
tert-BUTYL ALCOHOL												0.138	0.163	0.114	0.166	0.166	0.156	0.132	0.147	0.154	0.148373	11.78	0.118	1	
chloroprene												1.149	1.174	1.187	1.197	1.207	1.205	1.195	1.189	1.183	1.187464	1.5	0.015	1	
ETHYL TERT-BUTYL ETHER												2.173	2.139	2.152	2.09	2.132	2.122	2.048	2.046	2.098	2.111163	2.09	0.021	1	
PROPIONITRILE												0.073	0.074	0.08	0.079	0.082	0.078	0.075	0.074	0.085	0.077794	5.38	0.054	1	
Ethyl Acetate												0.533	0.534	0.561	0.563	0.581	0.559	0.53	0.532	0.597	0.554415	4.34	0.043	1	
METHACRYLONITRILE												0.238	0.233	0.24	0.24	0.247	0.239	0.226	0.228	0.25	0.237878	3.26	0.033	1	
Cyclohexane												1.594	1.527	1.571	1.574	1.603	1.585	1.545	1.567	1.567	1.570327	1.49	0.015	1	0.1
tert-butyl formate												0.438	0.389	0.465	0.415	0.433	0.434	0.431	0.354	0.43	0.420979	7.65	0.077	1	
ISOBUTANOL												0.039	0.036	0.038	0.038	0.039	0.038	0.036	0.036	0.039	0.037761	4.06	0.041	1	

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

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Method	: V818K11O	Review Protocol	: SW846	Released On	: 11/12/2015 8:48:41 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818K11O -- ICal Updated Time: Wed Oct 14 09:36:20 2015

Parameter	.25	.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
t-Amyl Alcohol												0.048	0.049	0.046	0.044	0.05	0.047	0.045	0.042	0.055	0.047363	7.67	0.077	1	
TERT-AMYL METHYL ETHER												2.173	2.16	2.243	2.175	2.192	2.179	2.1	2.094	2.2	2.168411	2.17	0.022	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.007	0.008	0.009	0.009	0.01	0.009	0.009	0.009	0.011	0.008927	12.39	0.124	1	
Methyl Cyclohexane												1.457	1.162	1.089	1.06	1.065	1.048	0.997	1.04	1.036	1.105853	12.58	0.126	1	0.1
2-nitropropane												0.089	0.081	0.081	0.085	0.087	0.084	0.079	0.08	0.092	0.084174	5.2	0.052	1	
METHYL METHACRYLATE												0.314	0.321	0.341	0.336	0.346	0.337	0.318	0.327	0.356	0.332858	4.21	0.042	1	
1,4-DIOXANE												0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003096	4.84	0.048	1	
n-octane												0.41	0.396	0.392	0.411	0.414	0.419	0.409	0.411	0.413	0.408474	2.1	0.021	1	
3,3-DIMETHYL-1-BUTANOL												0.025	0.027	0.031	0.03	0.034	0.034	0.032	0.034	0.041	0.032146	15.02	0.15	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.98	2.169	2.316	2.326	2.4	2.369	2.371	2.362	2.572	2.318215	7.07	0.071	1	
CIS-1,4-DICHLORO-2-BUTENE												0.431	0.509	0.509	0.52	0.554	0.538	0.526	0.548	0.601	0.526166	8.68	0.087	1	
Cyclohexanone												0.285	0.351	0.354	0.358	0.4	0.369	0.369	0.376	0.442	0.367163	11.46	0.115	1	
PENTACHLOROETHANE												1.021	1.067	1.13	1.131	1.154	1.153	1.173	1.162	1.18	1.130098	4.67	0.047	1	
Hexachloroethane												1.291	1.39	1.377	1.352	1.414	1.367	1.392	1.441	1.42	1.382554	3.19	0.032	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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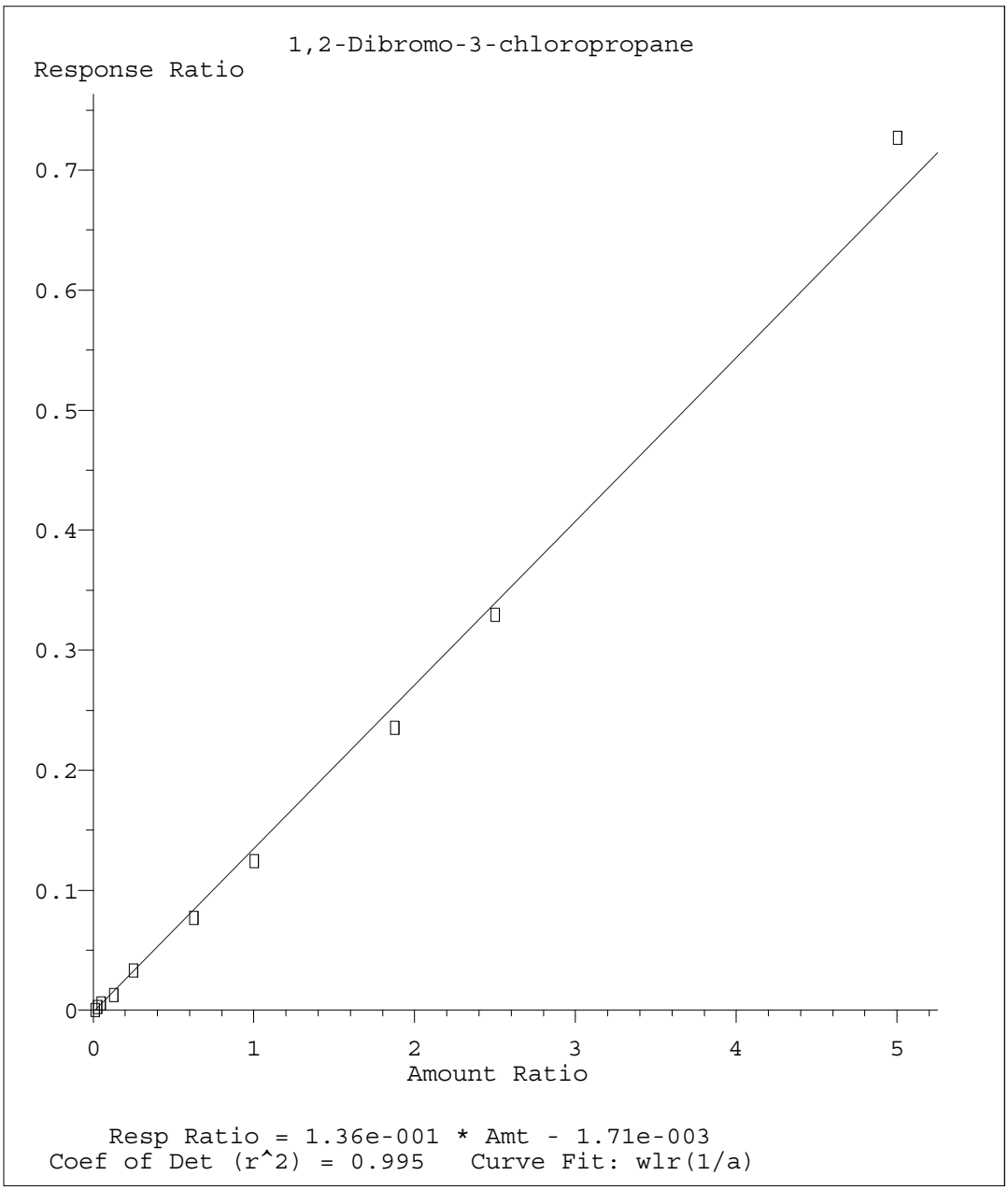
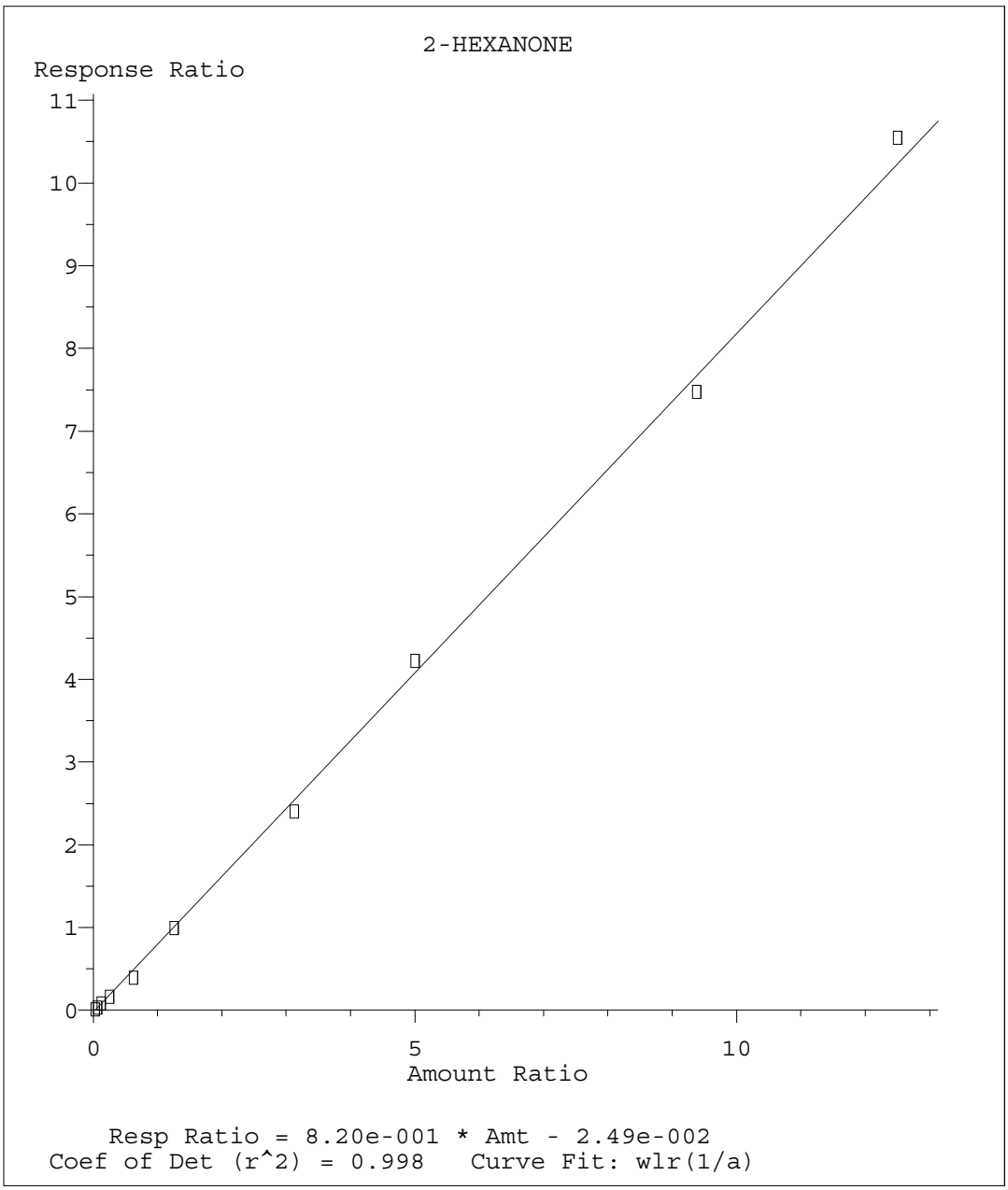
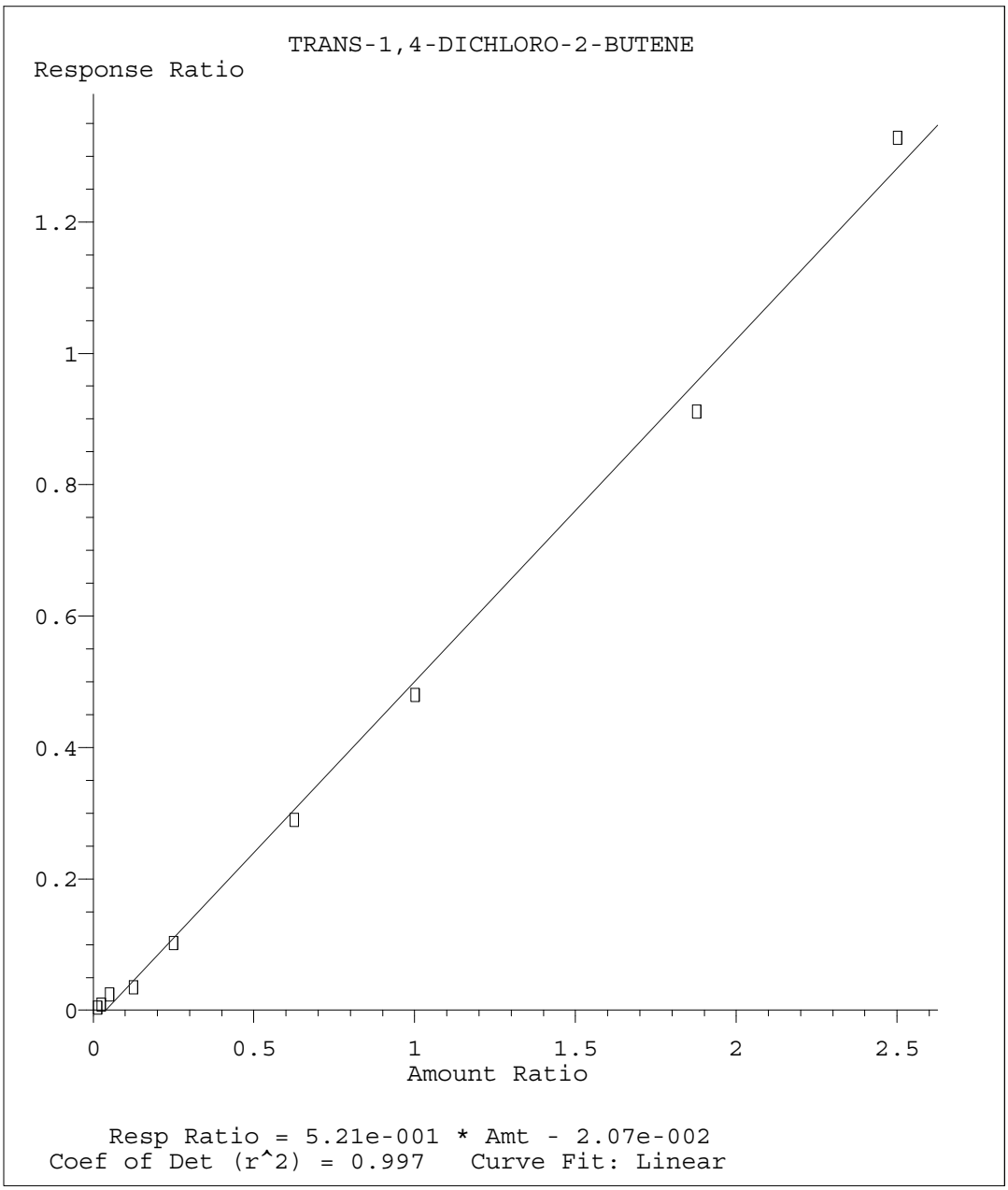


Method Name: C:\msdchem\1\methods\V818K11O.M



Method Name: C:\msdchem\1\methods\V818K11O.M



Method Name: C:\msdchem\1\methods\V818K11O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 13.D
Acq On : 12 Nov 2015 2:23 am
Operator : 189
Sample : SSCV GROMS 5.0 ppm 15K06944
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:28 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	531226	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	884965	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	129504	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	350801	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	531226	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	884965	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	129504	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	350801	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	225409	33.4936230	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 83.73%				
46) a,a,a-Trifluorotoluene	4.791	146	490178	43.0599412	ppb		-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.65%				
50) TOLUENE-D8	5.253	98	1046659	37.7397460	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 94.35%				
68) 4-BROMOFLUOROBENZENE	7.127	95	374069	45.3808087	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 113.45%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC 202804804m		5.7665453	ppm		
5) CHLOROMETHANE	1.773	50	4857	0.4187647	ppb	#	67
13) ACROLEIN	2.741	56	171514	152.8937122	ppb	#	1
16) ACETONE	2.881	43	314831	76.7810047	ppb	#	75
20) ACRYLONITRILE	3.367	53	69400	28.9567048	ppb	#	42
21) n-Hexane	3.008	56	1155497	112.8984041	ppb	#	67
23) METHYL TERT-BUTYL ETHER	3.027	73	19426	0.9257961	ppb	#	1
24) 1,1-DICHLOROETHANE	3.373	63	9393	0.5413410	ppb	#	1
25) VINYL ACETATE	3.471	43	15519	1.0517165	ppb	#	93
29) 2-BUTANONE (MEK)	3.939	43	180630	41.8506180	ppb	#	55
31) TETRAHYDROFURAN	3.878	42	7609	3.3067775	ppb	#	1
32) CHLOROFORM	3.744	83	60271	4.1877016	ppb	#	26
34) 1,1,1-TRICHLOROETHANE	3.951	97	3656	0.3241057	ppb	#	78
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	4436762	100.1219565	ppb		95
38) HEPTANE	4.043	43	2496158	118.4853714	ppb	#	93
39) BENZENE	4.097	78	1146807	30.0886853	ppb		93
43) 1,2-DICHLOROPROPANE	4.724	62	2063	0.3173793	ppb	#	1
45) BROMODICHLOROMETHANE	4.797	83	11636	1.1511381	ppb	#	1
47) 2-CHLOROETHYL VINYL ETHER	5.040	63	3572	1.1671894	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	167561	24.5179329	ppb	#	43
51) TOLUENE	5.278	91	18092058	483.4627769	ppb	#	68
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5916	0.5464336	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.643	97	30286	6.1658630	ppb	#	1
57) 2-HEXANONE	6.074	58	1181	1.6576001	ppb	#	1
58) CHLORODIBROMOMETHANE	5.837	129	1501	0.3112280	ppb	#	20
62) ETHYLBENZENE	6.281	106	1426263	144.9516985	ppb		87
63) M&P-XYLENE	6.379	106	3161617	256.3159183	ppb		90
64) O-XYLENE	6.689	106	1233234	107.6511706	ppb		93
65) STYRENE	6.725	104	28435	1.5997791	ppb	#	31
67) Isopropylbenzene	6.908	105	331377	10.8149564	ppb		96
69) Bromobenzene	7.206	77	43153	2.9656867	ppb	#	32
70) 1,1,2,2-TETRACHLOROETHANE	7.230	83	31364	4.9953345	ppb	#	26
71) 1,2,3-TRICHLOROPROPANE	7.376	110	2850	1.7553644	ppb	#	19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 13.D
Acq On : 12 Nov 2015 2:23 am
Operator : 189
Sample : SSCV GROMS 5.0 ppm 15K06944
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:28 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

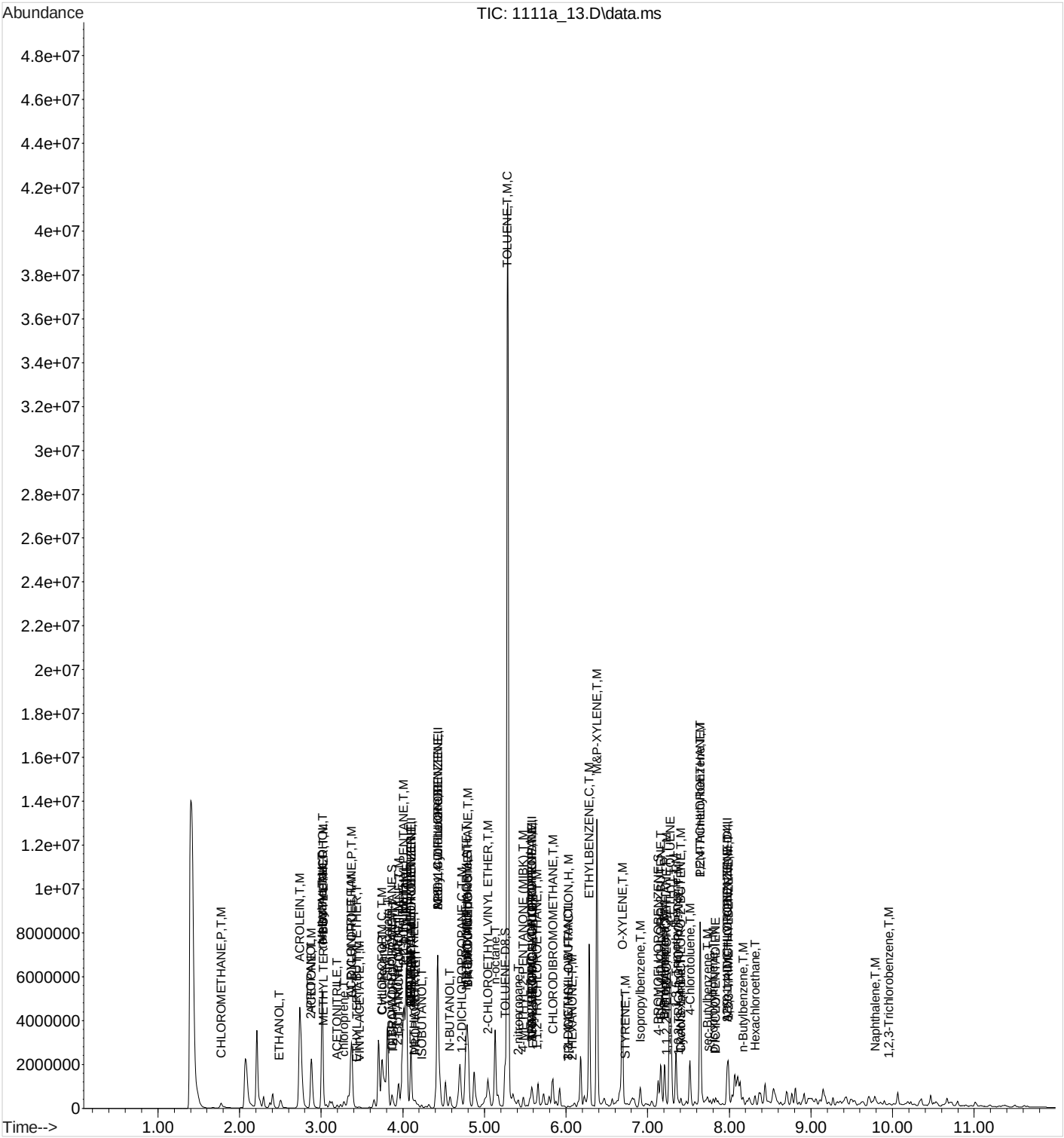
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72)	TRANS-1,4-DICHLORO-2-B...	7.407	53	3667	3.7660410	ppb	#	26
73)	n-Propylbenzene	7.206	91	1241211	32.0026933	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	4284457	144.3984761	ppb		94
76)	4-Chlorotoluene	7.516	91	122218	5.6000735	ppb	#	53
77)	1,3,5-Trimethylbenzene	7.346	105	1122197	43.5978151	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	3788453	154.8446852	ppb		93
80)	sec-Butylbenzene	7.729	105	114881	3.4787555	ppb	#	71
82)	p-Isopropyltoluene	7.802	119	129151	5.0486916	ppb	#	90
83)	DICYCLOPENTADIENE	7.833	66	51047	1.4212739	ppb	#	92
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	835364	27.4567534	ppb		95
88)	n-Butylbenzene	8.167	91	98281	3.3191284	ppb	#	82
92)	Naphthalene	9.785	128	189422	10.0642400	ppb	#	86
93)	1,2,3-Trichlorobenzene	9.950	180	2893	0.3727164	ppb	#	12
97)	ETHANOL	2.485	45	22727	237.7460305	ppb	#	91
99)	2-PROPANOL	2.875	45	770	1.5963730	ppb	#	1
100)	Methyl Acetate	3.008	43	1343299	235.8416203	ppb	#	57
101)	ACETONITRILE	3.191	41	39575	44.1441458	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.014	59	1713	0.8693298	ppb	#	1
104)	chloroprene	3.276	53	12663	0.8029656	ppb	#	26
105)	ETHYL TERT-BUTYL ETHER	3.434	59	11555	0.4121249	ppb	#	70
106)	PROPIONITRILE	4.158	54	9725	9.4128827	ppb	#	1
107)	Ethyl Acetate	3.811	43	1701168	231.0432463	ppb	#	40
108)	METHACRYLONITRILE	4.140	67	23399	7.4066919	ppb	#	1
109)	Cyclohexane	3.751	84	876455	42.0262112	ppb		91
110)	tert-butyl formate	4.006	59	4137	0.7399552	ppb	#	1
111)	ISOBUTANOL	4.231	43	2865	5.7129965	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	19968	0.6933838	ppb	#	84
115)	N-BUTANOL	4.578	56	30568	154.7768023	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	1863130	76.1516769	ppb	#	95
117)	2-nitropropane	5.417	43	76247	40.9430695	ppb	#	63
118)	METHYL METHACRYLATE	4.779	41	582978	79.1638110	ppb	#	33
119)	1,4-DIOXANE	4.797	88	4533	66.1684049	ppb	#	1
120)	n-octane	5.132	85	585200	64.7550042	ppb		93
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	21134	29.7162323	ppb	#	30
123)	ETHYL METHACRYLATE	5.594	69	84568	11.2675429	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.157	53	18609	10.9238769	ppb	#	8
125)	Cyclohexanone	7.407	55	23589	19.8438975	ppb	#	64
126)	PENTACHLOROETHANE	7.644	117	130129	35.5659824	ppb	#	13
127)	Hexachloroethane	8.313	117	3439	0.7682928	ppb	#	67

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 13.D
Acq On : 12 Nov 2015 2:23 am
Operator : 189
Sample : SSCV GROMS 5.0 ppm 15K06944
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:28 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 13.D
Acq On    : 12 Nov 2015   2:23 am
Operator  : 189
Sample    : SSCV GROMS 5.0 ppm 15K06944
Misc      : water 15J30547
ALS Vial  : 13   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:26:20 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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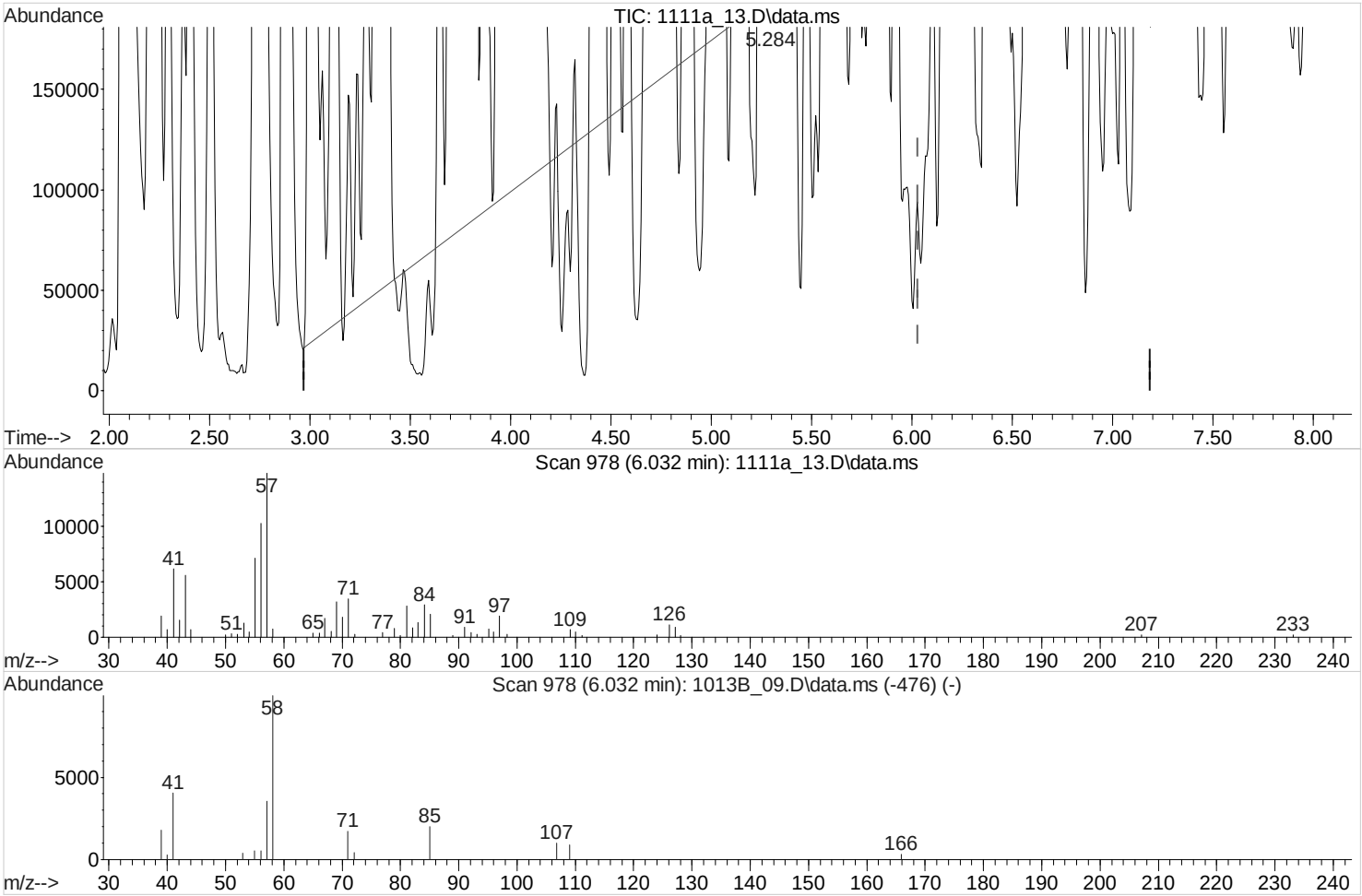


TIC: 1111a_13.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 3.1173987 ppm m

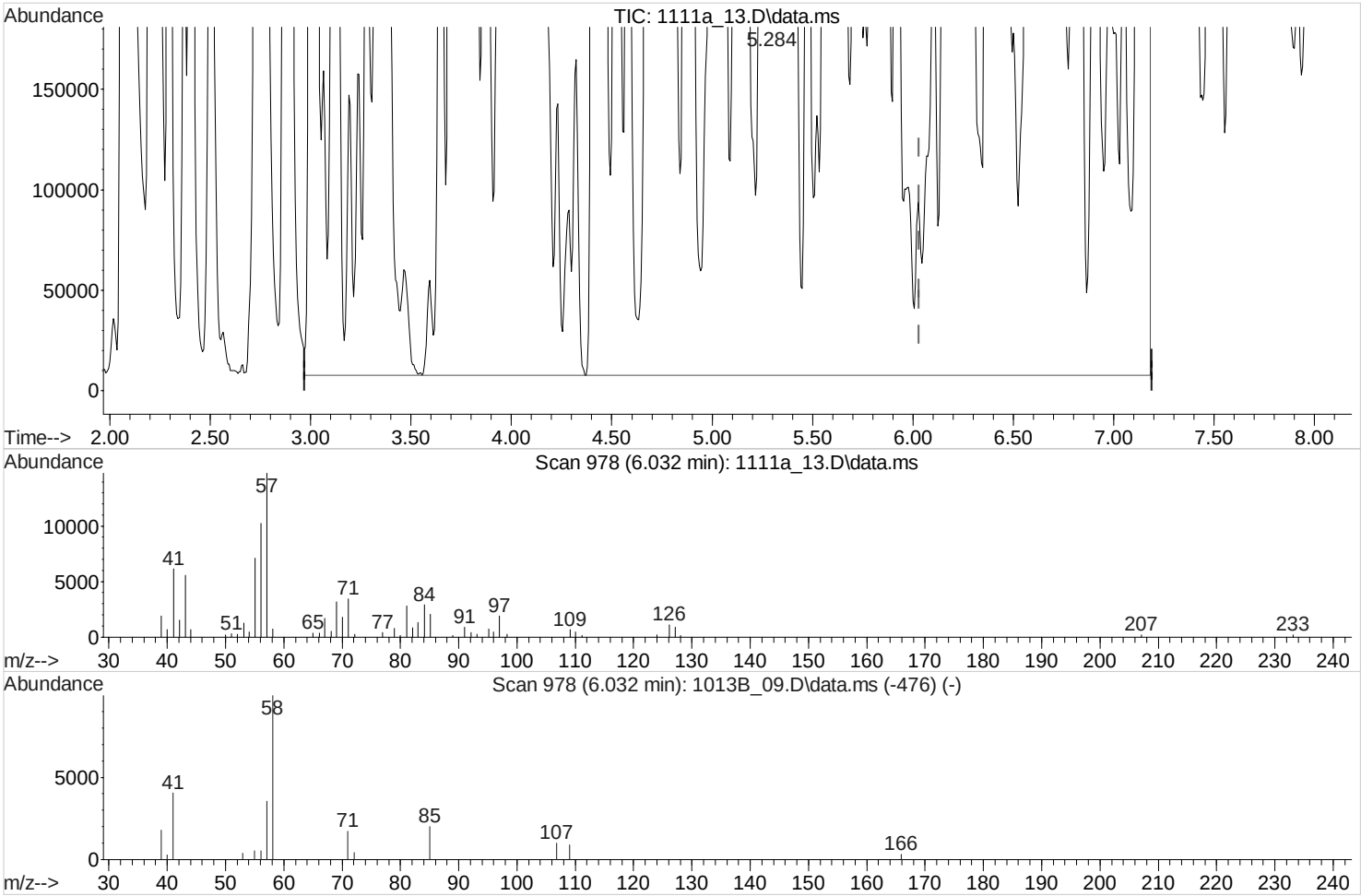
response 109636427

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.50#
0.00	0.00	0.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 13.D
Acq On : 12 Nov 2015 2:23 am
Operator : 189
Sample : SSCV GROMS 5.0 ppm 15K06944
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:20 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_13.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 5.7665453 ppm m

response 202804804

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.27#
0.00	0.00	0.11#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.109	168	458859	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	823998	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	140758	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	301015	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.99
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.872	111	228398	39.7144153 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.29%		
46) a,a,a-Trifluorotoluene	4.803	146	435643	41.2735480 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.18%		
50) TOLUENE-D8	5.259	98	1038905	40.1613261 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.40%		
68) 4-BROMOFLUOROBENZENE	7.139	95	347699	38.7185638 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.80%		

Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4756107m		Below Cal	
3) PROPENE	1.548	41	626	0.2659029 ppb #	18
4) DICHLORODIFLUOROMETHANE	1.603	85	1036	0.1837307 ppb #	43
5) CHLOROMETHANE	1.737	50	2167	0.2128098 ppb #	92
6) VINYL CHLORIDE	1.804	62	2304	0.2214617 ppb #	81
7) 1,3-BUTADIENE	1.822	39	2001	0.2280191 ppb	88
8) BROMOMETHANE	2.041	94	1306	0.2041343 ppb #	87
9) CHLOROETHANE	2.138	64	1757	0.2679009 ppb #	46
10) TRICHLOROFLUOROMETHANE	2.224	101	1987	0.1971907 ppb #	81
11) DICHLOROFLUOROMETHANE	2.266	67	2891	0.1930092 ppb #	82
12) ETHYL ETHER	2.412	59	1198	0.1839269 ppb #	74
13) ACROLEIN	2.759	56	1209	1.3788823 ppb #	15
14) 1,1-DICHLOROETHENE	2.546	61	2436	0.1952003 ppb #	82
15) 1,1,2-TRICHLOROTRIFLUO...	2.582	101	1434	0.2048031 ppb #	70
16) ACETONE	2.917	43	8827	2.6384258 ppb	98
17) IODOMETHANE	2.643	142	10099	1.0073184 ppb	94
18) CARBON DISULFIDE	2.582	76	6304	0.2374324 ppb #	81
19) METHYLENE CHLORIDE	2.887	84	1975	0.2619884 ppb	87
20) ACRYLONITRILE	3.373	53	1529	0.7029306 ppb #	67
21) n-Hexane	3.027	56	1923	0.2168172 ppb	81
22) TRANS-1,2-DICHLOROETHENE	2.984	96	1657	0.2222420 ppb	92
23) METHYL TERT-BUTYL ETHER	3.039	73	3983	0.2159149 ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	3166	0.2053475 ppb	89
25) VINYL ACETATE	3.459	43	12840	0.9558584 ppb	96
26) DI-ISOPROPYL ETHER	3.233	45	6221	0.2097454 ppb	96
27) 2,2-Dichloropropane	3.696	77	2354	0.2569768 ppb #	59
28) CIS-1,2-DICHLOROETHENE	3.629	96	1916	0.2449066 ppb #	76
29) 2-BUTANONE (MEK)	3.945	43	3324	0.8539459 ppb	99
30) BROMOCHLOROMETHANE	3.751	130	826	0.2124275 ppb	83
32) CHLOROFORM	3.769	83	2491	0.1934679 ppb #	90
34) 1,1,1-TRICHLOROETHANE	3.909	97	2008	0.2027759 ppb	95
35) CARBON TETRACHLORIDE	3.860	117	1709	0.2077895 ppb	95
36) 1,1-Dichloropropene	3.970	75	2113	0.1955931 ppb #	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

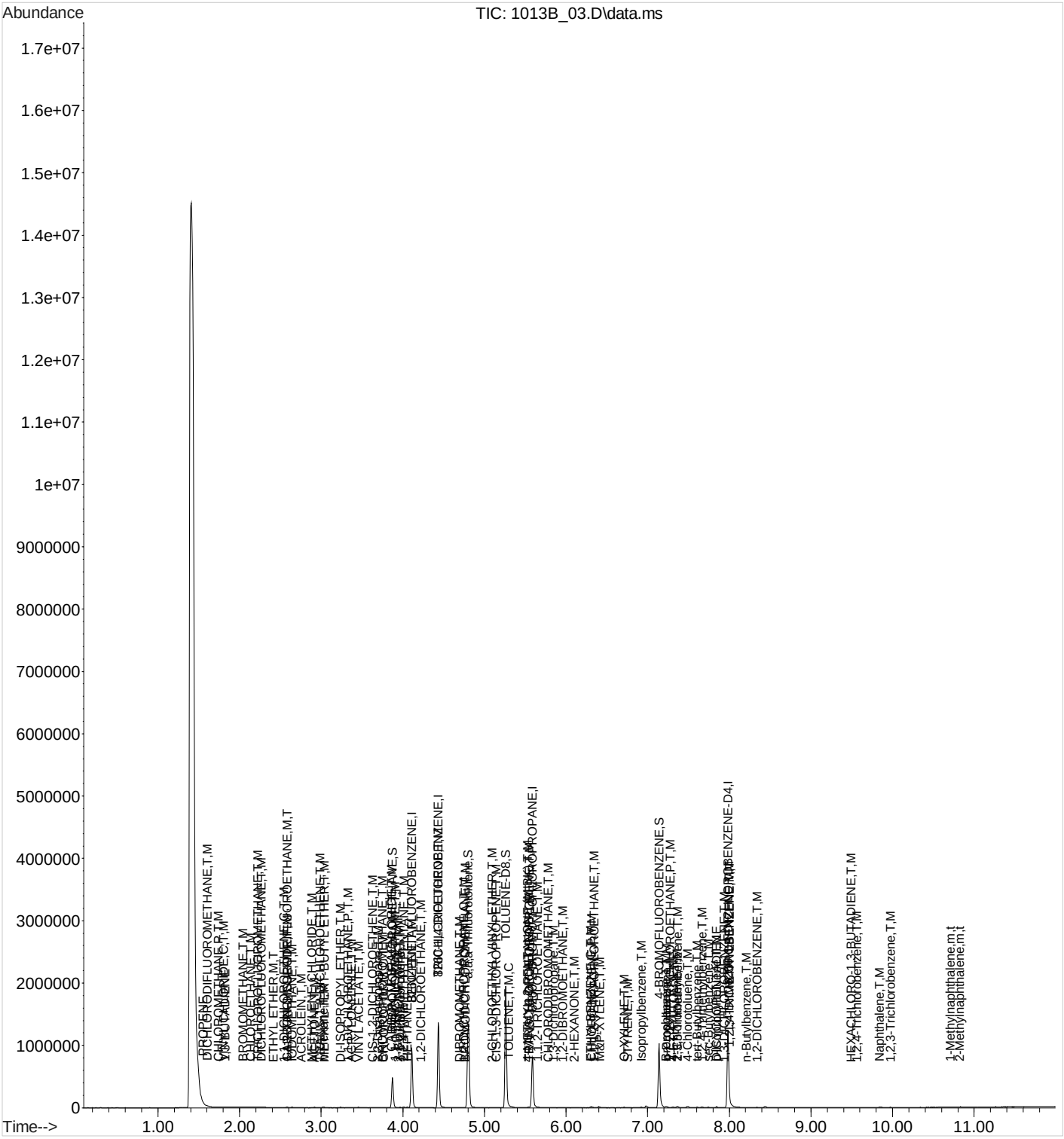
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	8866	0.2288227 ppb	#	87
38) HEPTANE	4.055	43	4259	0.2330708 ppb	#	89
39) BENZENE	4.109	78	7526	0.2286583 ppb	#	1
40) 1,2-DICHLOROETHANE	4.219	62	1896	0.2116029 ppb	#	76
42) TRICHLOROETHENE	4.432	130	1403	0.1968365 ppb		94
43) 1,2-DICHLOROPROPANE	4.748	62	1063	0.1688237 ppb	#	62
44) DIBROMOMETHANE	4.693	93	695	0.1888349 ppb	#	36
45) BROMODICHLOROMETHANE	4.766	83	2120	0.2229796 ppb	#	87
47) 2-CHLOROETHYL VINYL ETHER	5.095	63	2436	0.7700327 ppb	#	95
48) CIS-1,3-DICHLOROPROPENE	5.144	75	2272	0.1809679 ppb	#	86
49) 4-METHYL-2-PENTANONE (...	5.527	43	4596	0.7002705 ppb		93
51) TOLUENE	5.296	91	9608	0.2824761 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.551	75	1269	0.1162418 ppb	#	52
54) 1,1,2-TRICHLOROETHANE	5.649	97	1134	0.2087250 ppb	#	61
55) TETRACHLOROETHENE	5.545	164	1082	0.2063581 ppb		90
56) 1,3-Dichloropropane	5.843	76	2131	0.1982389 ppb		99
57) 2-HEXANONE	6.099	58	1089	0.4035742 ppb		81
58) CHLORODIBROMOMETHANE	5.782	129	1106	0.2046026 ppb	#	79
59) 1,2-DIBROMOETHANE	5.959	107	1107	0.2169036 ppb		82
60) CHLOROBENZENE	6.312	112	3913	0.2069160 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.342	133	1065	0.1893484 ppb	#	98
62) ETHYLBENZENE	6.300	106	2151	0.1988780 ppb		84
63) M&P-XYLENE	6.415	106	5979	0.4446827 ppb		97
64) O-XYLENE	6.713	106	2812	0.2202816 ppb		99
65) STYRENE	6.756	104	3416	0.1704648 ppb		99
67) Isopropylbenzene	6.920	105	6940	0.2014727 ppb	#	94
69) Bromobenzene	7.224	77	3204	0.2029688 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.273	83	1249	0.1774733 ppb	#	81
73) n-Propylbenzene	7.230	91	8691	0.2000044 ppb	#	96
74) 4-ETHYLTOLUENE	7.316	105	6540	0.1947827 ppb		97
75) 2-Chlorotoluene	7.358	126	1292	0.1699747 ppb	#	93
76) 4-Chlorotoluene	7.486	91	5112	0.2103090 ppb	#	88
77) 1,3,5-Trimethylbenzene	7.364	105	5290	0.1857780 ppb		88
78) tert-Butylbenzene	7.608	119	4128	0.1814754 ppb	#	78
79) 1,2,4-Trimethylbenzene	7.668	105	5740	0.2082875 ppb		87
80) sec-Butylbenzene	7.741	105	7681	0.2058355 ppb		96
81) 1,3-DICHLOROBENZENE	7.936	146	2210	0.1638446 ppb		85
82) p-Isopropyltoluene	7.845	119	5483	0.1851060 ppb		94
83) DICYCLOPENTADIENE	7.845	66	7745	0.1900836 ppb		100
85) 1,4-DICHLOROBENZENE	7.997	146	3173	0.2506053 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	6024	0.2280515 ppb		98
87) 1,2-DICHLOROBENZENE	8.338	146	2344	0.2054473 ppb	#	89
88) n-Butylbenzene	8.210	91	3967	0.1398015 ppb		95
90) 1,2,4-Trichlorobenzene	9.560	180	1238	0.1651274 ppb	#	52
91) HEXACHLORO-1,3-BUTADIENE	9.493	225	871	0.2043389 ppb	#	56
92) Naphthalene	9.840	128	3998	0.2468042 ppb	#	72
93) 1,2,3-Trichlorobenzene	9.974	180	1598	0.2373670 ppb	#	86
94) 1-Methylnaphthalene	10.710	142	3815	0.4741483 ppb		93
95) 2-Methylnaphthalene	10.820	142	3647	0.4884389 ppb	#	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 03.D
Acq On : 13 Oct 2015 6:48 pm
Operator : 591
Sample : LOD VMS .25 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:56:24 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.109	168	476854	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.432	114	838505	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.588	79	141768	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.985	152	304485	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.12
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.44
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.60
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.99
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.872	111	231971	38.8135526	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.03%			
46) a,a,a-Trifluorotoluene	4.803	146	446650	41.5842528	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.96%			
50) TOLUENE-D8	5.259	98	1072929	40.7590162	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.90%			
68) 4-BROMOFLUOROBENZENE	7.139	95	351650	38.8795558	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.20%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-4818576m	Below Cal		
3) PROPENE	1.542	41	1839	0.7516651	ppb #	73
4) DICHLORODIFLUOROMETHANE	1.591	85	2831	0.4831208	ppb #	86
5) CHLOROMETHANE	1.737	50	5203	0.4916776	ppb #	94
6) VINYL CHLORIDE	1.816	62	4450	0.4115949	ppb #	78
7) 1,3-BUTADIENE	1.816	39	4843	0.5310463	ppb #	78
8) BROMOMETHANE	2.053	94	2696	0.4054960	ppb #	88
9) CHLOROETHANE	2.138	64	4097	0.6011214	ppb	97
10) TRICHLOROFLUOROMETHANE	2.224	101	4979	0.4754714	ppb #	89
11) DICHLOROFLUOROMETHANE	2.260	67	6974	0.4480286	ppb	98
12) ETHYL ETHER	2.412	59	3240	0.4786601	ppb	96
13) ACROLEIN	2.753	56	2331	2.5582147	ppb	97
14) 1,1-DICHLOROETHENE	2.546	61	6120	0.4718984	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.576	101	3317	0.4558548	ppb	99
16) ACETONE	2.923	43	14582	4.1941375	ppb	100
17) IODOMETHANE	2.643	142	24704	2.3710980	ppb	99
18) CARBON DISULFIDE	2.582	76	12160	0.4407083	ppb #	83
19) METHYLENE CHLORIDE	2.893	84	3990	0.5093094	ppb	95
20) ACRYLONITRILE	3.373	53	4384	1.9394088	ppb	87
21) n-Hexane	3.027	56	4608	0.4999433	ppb	96
22) TRANS-1,2-DICHLOROETHENE	2.990	96	3701	0.4776575	ppb	96
23) METHYL TERT-BUTYL ETHER	3.039	73	9078	0.4735397	ppb	99
24) 1,1-DICHLOROETHANE	3.331	63	7107	0.4435665	ppb	99
25) VINYL ACETATE	3.452	43	29993	2.1485342	ppb	99
26) DI-ISOPROPYL ETHER	3.239	45	14651	0.4753279	ppb	97
27) 2,2-Dichloropropane	3.696	77	5075	0.5331107	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.635	96	3621	0.4453765	ppb	90
29) 2-BUTANONE (MEK)	3.945	43	8761	2.1657924	ppb	98
30) BROMOCHLOROMETHANE	3.744	130	1883	0.4659882	ppb	94
31) TETRAHYDROFURAN	3.878	42	823	0.3994460	ppb #	59
32) CHLOROFORM	3.769	83	6290	0.4700886	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.903	97	4721	0.4587546	ppb	96
35) CARBON TETRACHLORIDE	3.866	117	4215	0.4931431	ppb	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.963	75	5033	0.4483062 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	18592	0.4617335 ppb		91
38) HEPTANE	4.055	43	9719	0.5117946 ppb	#	90
39) BENZENE	4.109	78	16891	0.4938238 ppb	#	38
40) 1,2-DICHLOROETHANE	4.219	62	4339	0.4659794 ppb	#	91
42) TRICHLOROETHENE	4.432	130	3370	0.4646205 ppb		93
43) 1,2-DICHLOROPROPANE	4.742	62	2897	0.4521361 ppb		85
44) DIBROMOMETHANE	4.687	93	1605	0.4285416 ppb		87
45) BROMODICHLOROMETHANE	4.766	83	4756	0.4915770 ppb	#	88
47) 2-CHLOROETHYL VINYL ETHER	5.083	63	6520	2.0253495 ppb		94
48) CIS-1,3-DICHLOROPROPENE	5.144	75	5543	0.4338689 ppb	#	88
49) 4-METHYL-2-PENTANONE (...	5.521	43	13045	1.9532165 ppb		98
51) TOLUENE	5.296	91	18218	0.5263443 ppb		94
52) TRANS-1,3-DICHLOROPROPENE	5.545	75	4286	0.3858099 ppb	#	67
54) 1,1,2-TRICHLOROETHANE	5.655	97	2348	0.4290960 ppb		95
55) TETRACHLOROETHENE	5.545	164	2545	0.4819222 ppb		93
56) 1,3-Dichloropropane	5.843	76	5543	0.5119707 ppb		98
57) 2-HEXANONE	6.081	58	3900	1.4350104 ppb		97
58) CHLORODIBROMOMETHANE	5.776	129	2303	0.4230044 ppb	#	88
59) 1,2-DIBROMOETHANE	5.959	107	2251	0.4379147 ppb		98
60) CHLOROBENZENE	6.306	112	9454	0.4963577 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.330	133	2376	0.4194240 ppb	#	98
62) ETHYLBENZENE	6.300	106	4853	0.4455038 ppb		88
63) M&P-XYLENE	6.397	106	12851	0.9489722 ppb		96
64) O-XYLENE	6.713	106	5941	0.4620803 ppb		94
65) STYRENE	6.750	104	7875	0.3901776 ppb		99
66) Bromoform	6.774	173	1468	0.4877433 ppb	#	27
67) Isopropylbenzene	6.920	105	15223	0.4387850 ppb	#	94
69) Bromobenzene	7.224	77	8405	0.5286515 ppb		91
70) 1,1,2,2-TETRACHLOROETHANE	7.273	83	3002	0.4235222 ppb	#	95
71) 1,2,3-TRICHLOROPROPANE	7.388	110	834	0.4654312 ppb	#	19
72) TRANS-1,4-DICHLORO-2-B...	7.431	53	484m	0.2947550 ppb		
73) n-Propylbenzene	7.230	91	19732	0.4508539 ppb		98
74) 4-ETHYLTOLUENE	7.309	105	14723	0.4353754 ppb		97
75) 2-Chlorotoluene	7.358	126	3346	0.4370616 ppb		91
76) 4-Chlorotoluene	7.480	91	10912	0.4457241 ppb		98
77) 1,3,5-Trimethylbenzene	7.364	105	14636	0.5103356 ppb		98
78) tert-Butylbenzene	7.614	119	10219	0.4460477 ppb		94
79) 1,2,4-Trimethylbenzene	7.662	105	12225	0.4404484 ppb		96
80) sec-Butylbenzene	7.741	105	15688	0.4174120 ppb		97
81) 1,3-DICHLOROBENZENE	7.930	146	6050	0.4453383 ppb		99
82) p-Isopropyltoluene	7.851	119	12579	0.4216414 ppb		96
83) DICYCLOPENTADIENE	7.845	66	17605	0.4289969 ppb		98
85) 1,4-DICHLOROBENZENE	7.997	146	6358	0.4964356 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.003	105	12426	0.4650520 ppb		93
87) 1,2-DICHLOROBENZENE	8.338	146	5852	0.5070717 ppb		91
88) n-Butylbenzene	8.204	91	11530	0.4016994 ppb		91
89) 1,2-Dibromo-3-chloropr...	9.007	157	58m	0.0621295 ppb		
90) 1,2,4-Trichlorobenzene	9.554	180	2723	0.3590612 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.499	225	2101	0.4872830 ppb	#	84
92) Naphthalene	9.816	128	7709	0.4704679 ppb	#	94
93) 1,2,3-Trichlorobenzene	9.974	180	3658	0.5371671 ppb	#	86
94) 1-Methylnaphthalene	10.710	142	4744	0.5828900 ppb	#	79
95) 2-Methylnaphthalene	10.820	142	4669	0.6181881 ppb		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration

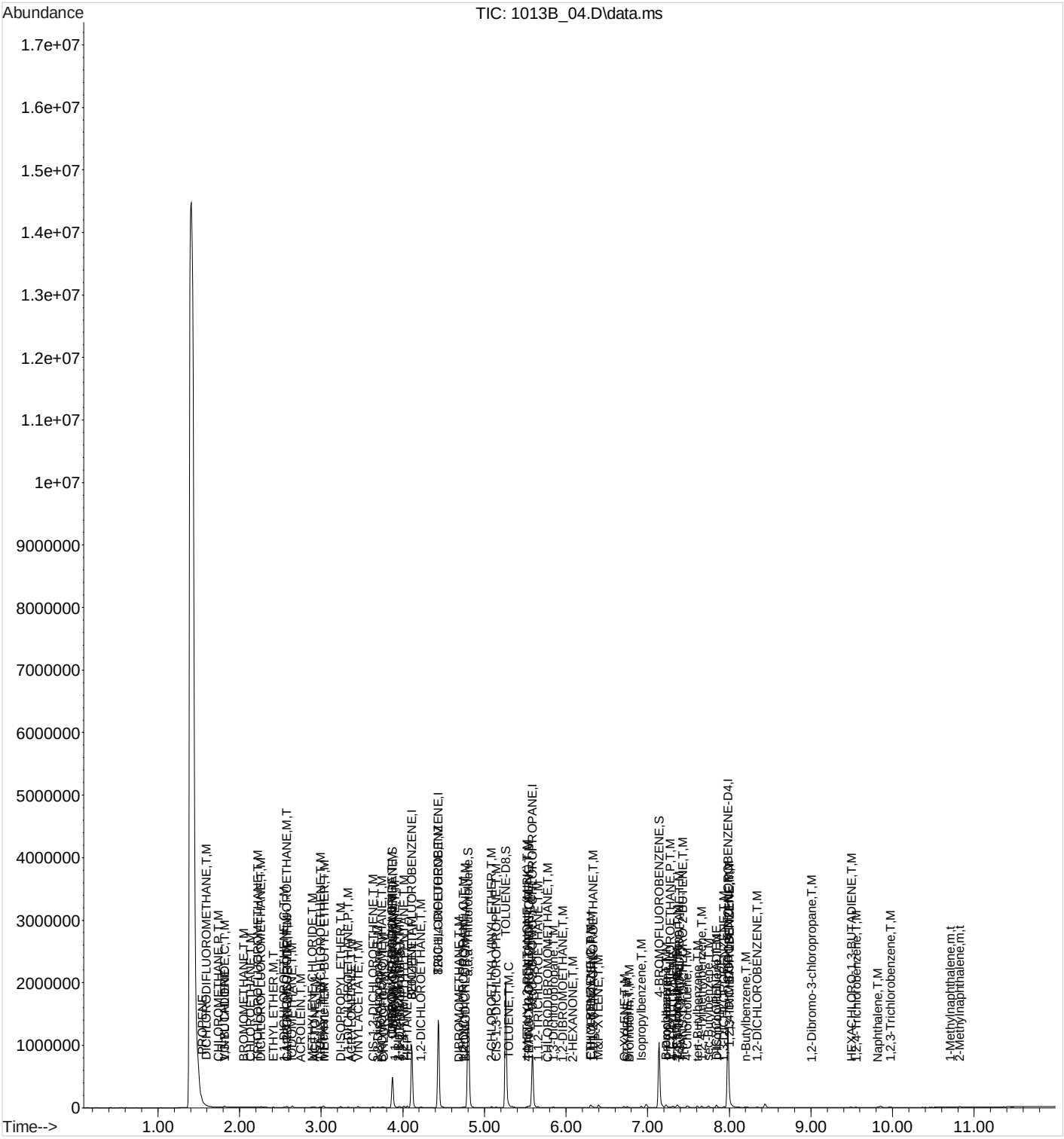
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On : 13 Oct 2015 7:08 pm
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR15D18333
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Oct 14 08:57:50 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On    : 13 Oct 2015   7:08 pm
Operator  : 591
Sample    : STD VMS .5 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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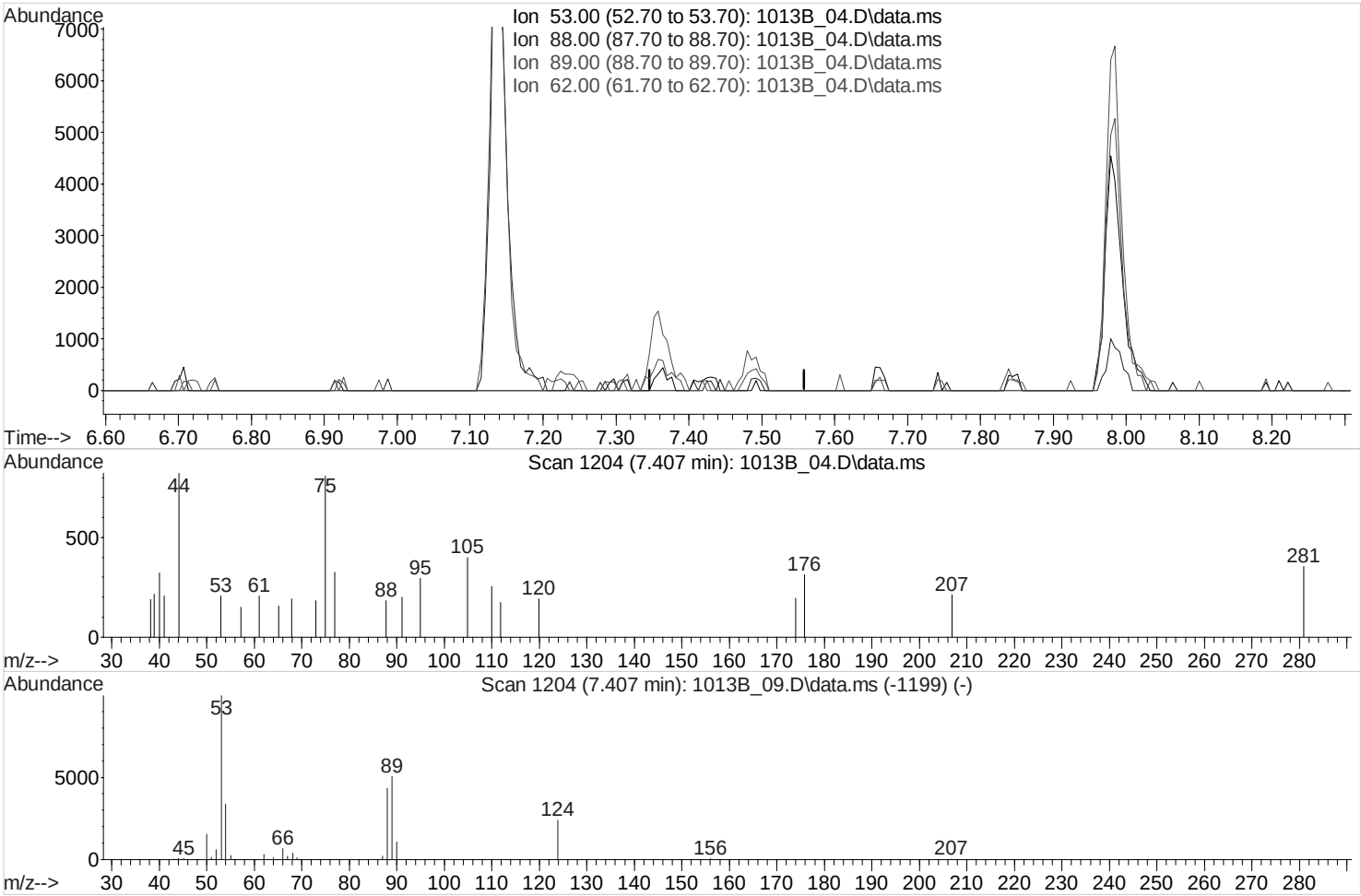


TIC: 1013B_04.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.407min (-7.407) 0.0000000 ppb

Qvalue = 0

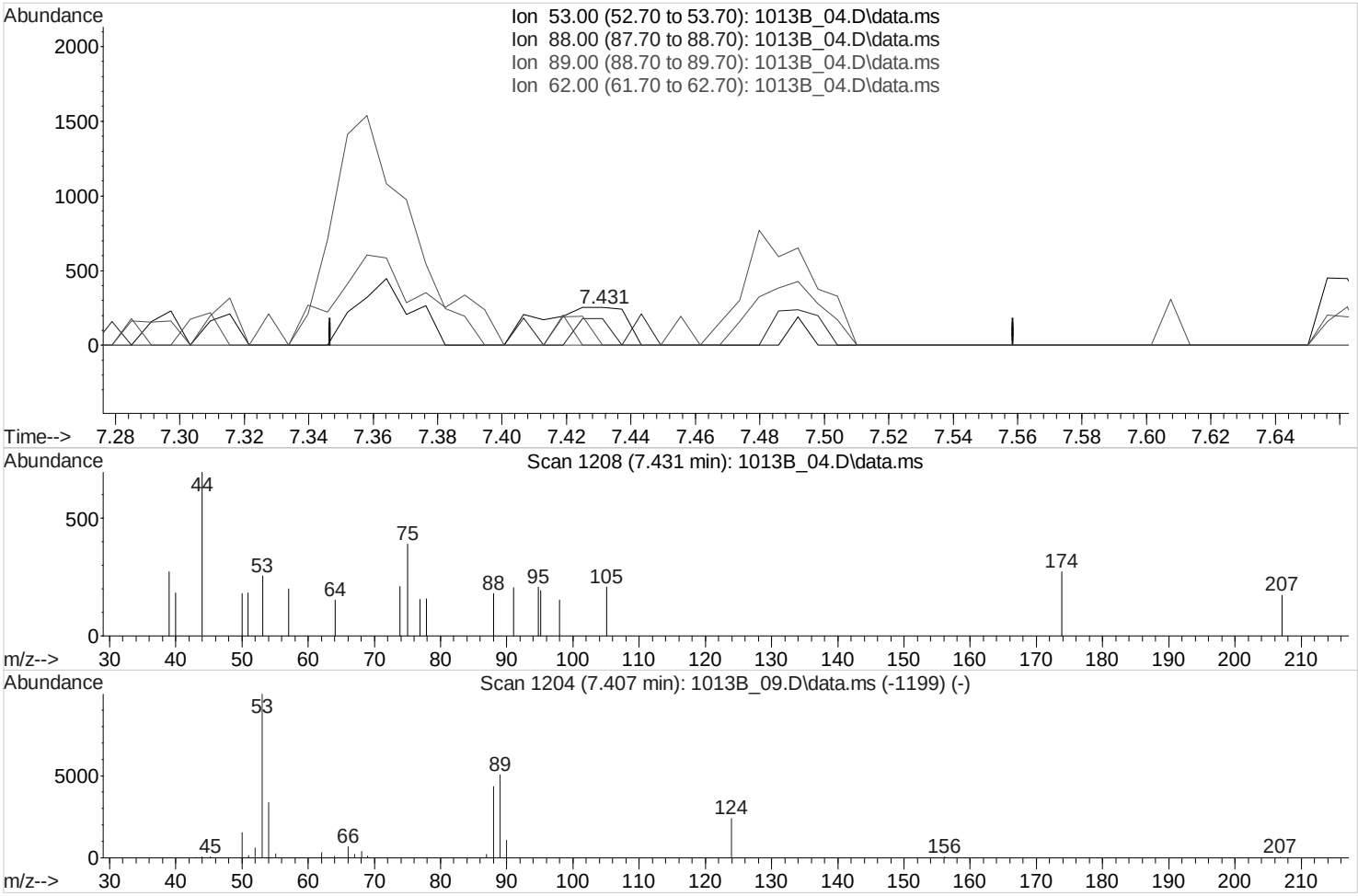
response 0

Ion	Exp%	Act%
53.00	100	0.00
88.00	44.30	0.00#
89.00	57.30	0.00#
62.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On    : 13 Oct 2015   7:08 pm
Operator  : 591
Sample    : STD VMS .5 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
```



TIC: 1013B_04.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.431min (+0.024) 0.2947550 ppb m

response 484

Ion	Exp%	Act%
53.00	100	100
88.00	44.30	0.00#
89.00	57.30	0.00#
62.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\101315b\
Data File : 1013B 04.D
Acq On    : 13 Oct 2015   7:08 pm
Operator  : 591
Sample    : STD VMS .5 ppb 15J05152
Misc      : water IS/SURR15D18333
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Oct 14 08:54:17 2015
Quant Method : C:\msdchem\1\methods\V818J13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 08:53:28 2015
Response via : Initial Calibration
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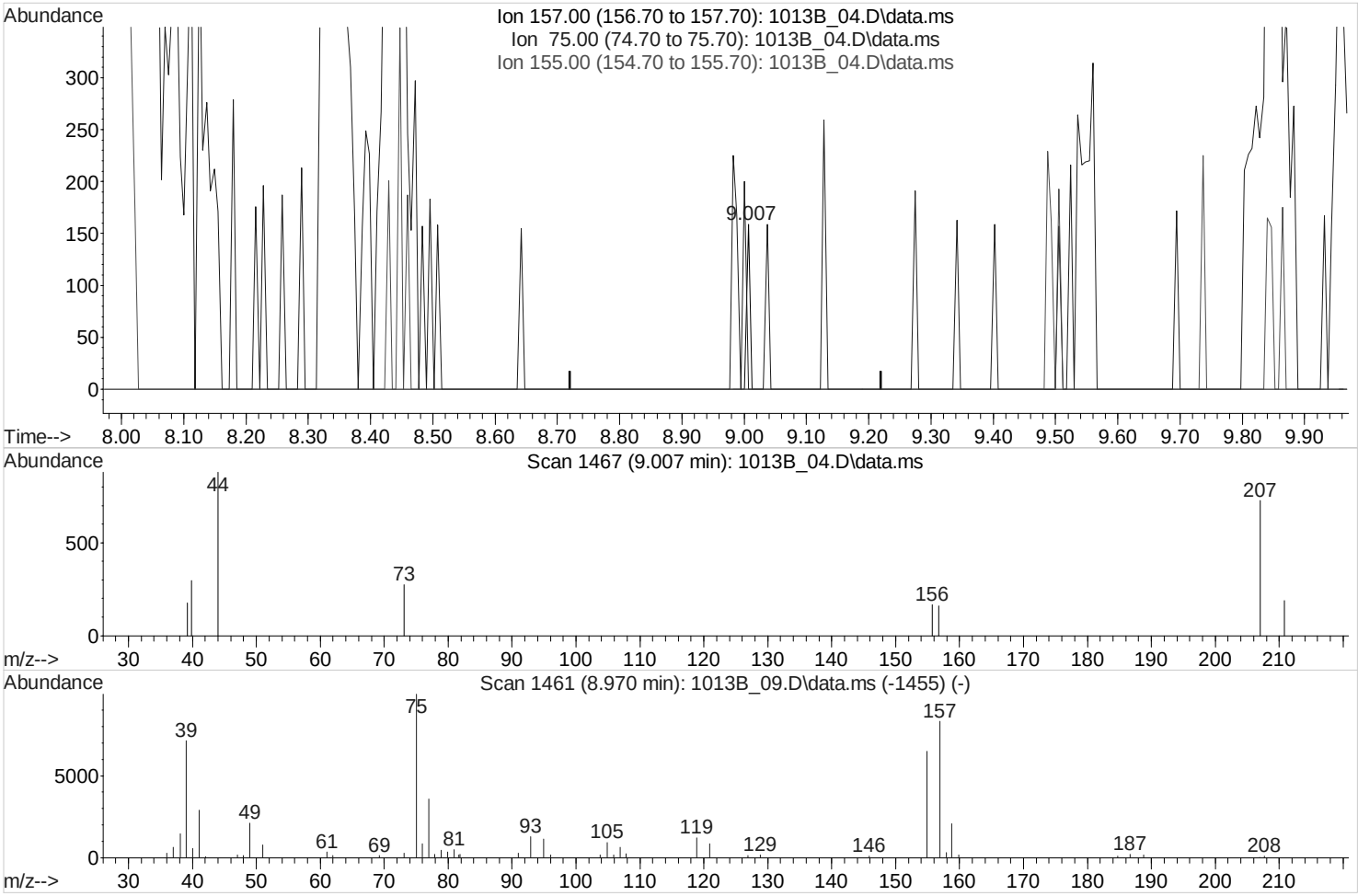


TIC: 1013B_04.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.007min (+0.037) 0.0621295 ppb m

response 58

Ion	Exp%	Act%
157.00	100	100
75.00	112.40	0.00#
155.00	81.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 04.D
Acq On : 11 Nov 2015 11:21 pm
Operator : 189
Sample : STD GROMS .4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	512786	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	822990	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	127389	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	331061	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	512786	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	822990	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	127389	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	331061	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	222775	34.2926061	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 85.73%				
46) a,a,a-Trifluorotoluene	4.797	146	471573	44.5451151	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.36%				
50) TOLUENE-D8	5.253	98	1003239	38.8982178	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.25%				
68) 4-BROMOFLUOROBENZENE	7.127	95	328869	40.5596972	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.40%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	9084560m	0.3002813	ppm		
5) CHLOROMETHANE	1.767	50	4856	0.4337343	ppb	#	66
13) ACROLEIN	2.741	56	22011	20.3269859	ppb	#	1
16) ACETONE	2.881	43	34278	8.6603399	ppb	#	77
20) ACRYLONITRILE	3.367	53	7059	3.0512375	ppb	#	41
21) n-Hexane	3.008	56	86581	8.7636443	ppb	#	62
29) 2-BUTANONE (MEK)	3.939	43	11776	2.8265258	ppb	#	48
37) 2,2,4-TRIMETHYLPENTANE	4.000	57	407734	9.5319836	ppb		99
38) HEPTANE	4.042	43	70785	3.4807839	ppb	#	89
39) BENZENE	4.097	78	102905	2.7970003	ppb		100
43) 1,2-DICHLOROPROPANE	4.791	62	7248	1.1990272	ppb	#	26
49) 4-METHYL-2-PENTANONE (...	5.478	43	7438	1.1703038	ppb	#	36
51) TOLUENE	5.284	91	732145	21.0379640	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	6018	0.5977133	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.642	97	2611	0.5403935	ppb	#	1
57) 2-HEXANONE	6.184	58	1386	1.7434465	ppb	#	1
62) ETHYLBENZENE	6.287	106	53125	5.4887556	ppb		86
63) M&P-XYLENE	6.379	106	251122	20.6967587	ppb		91
64) O-XYLENE	6.689	106	87950	7.8047746	ppb		93
67) Isopropylbenzene	6.908	105	22533	0.7476058	ppb	#	92
71) 1,2,3-TRICHLOROPROPANE	7.486	110	576	0.3606585	ppb	#	1
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	1029	2.2116419	ppb	#	26
73) n-Propylbenzene	7.212	91	64094	1.6800010	ppb		94
74) 4-ETHYLTOLUENE	7.279	105	253049	8.6700719	ppb		96
76) 4-Chlorotoluene	7.522	91	6956	0.3240182	ppb	#	51
77) 1,3,5-Trimethylbenzene	7.346	105	76526	3.0224275	ppb		92
78) tert-Butylbenzene	7.650	119	31636	1.6069316	ppb	#	85
79) 1,2,4-Trimethylbenzene	7.650	105	248164	10.3115615	ppb		94
80) sec-Butylbenzene	7.729	105	10077	0.3102117	ppb	#	79
82) p-Isopropyltoluene	7.808	119	12726	0.5057364	ppb		93
86) 1,2,3-TRIMETHYLBENZENE	7.991	105	61548	2.1435824	ppb		95
88) n-Butylbenzene	8.173	91	12463	0.4459949	ppb	#	76
92) Naphthalene	9.798	128	20568	1.1579650	ppb	#	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 04.D
Acq On : 11 Nov 2015 11:21 pm
Operator : 189
Sample : STD GROMS .4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

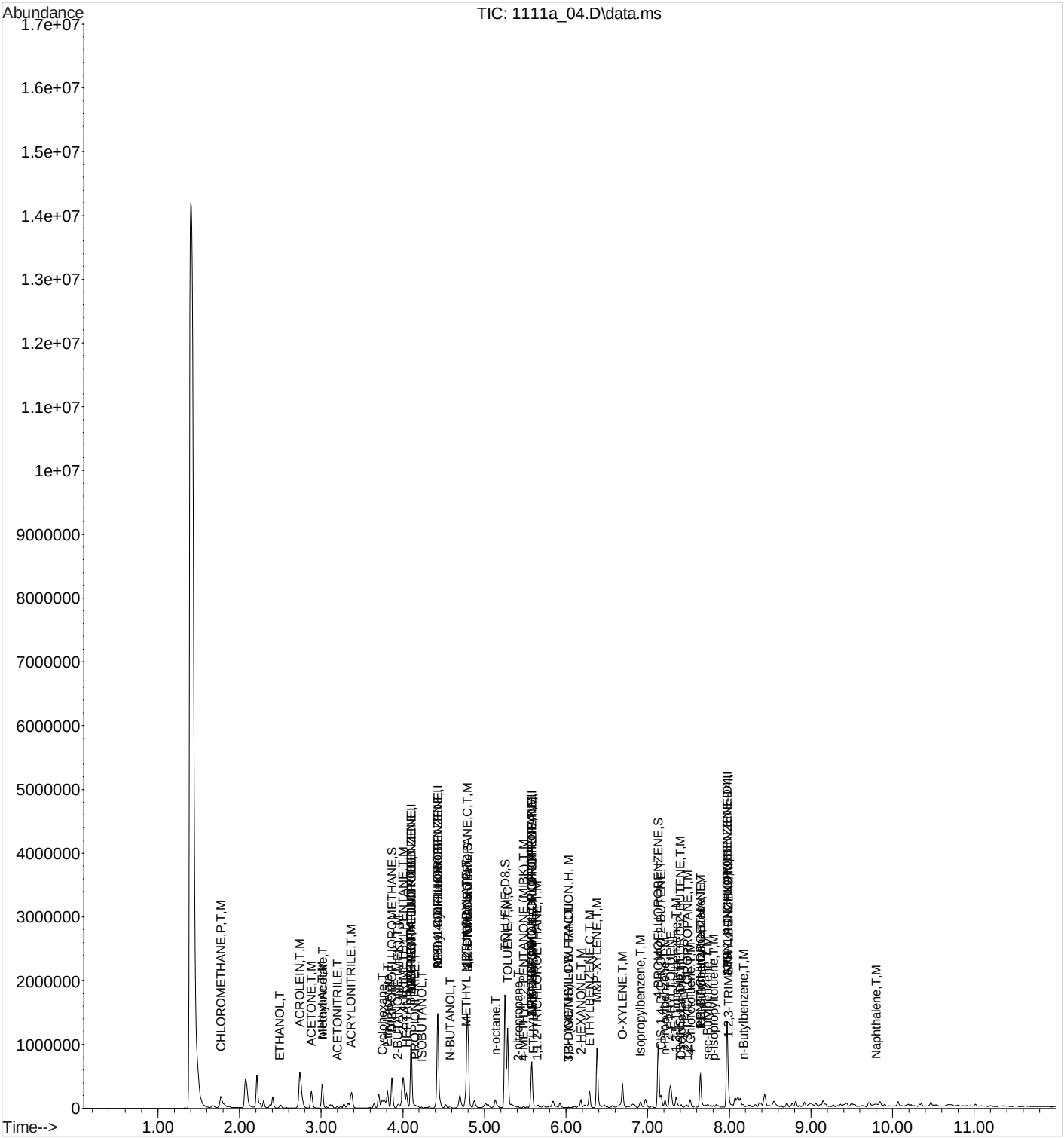
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.491	45	1918	20.7856174	ppb	#	87
100)	Methyl Acetate	3.014	43	90829	16.5202058	ppb	#	56
101)	ACETONITRILE	3.197	41	8211	9.4883656	ppb	#	44
106)	PROPIONITRILE	4.152	54	1924	1.9292178	ppb	#	21
107)	Ethyl Acetate	3.811	43	85909	12.0872610	ppb	#	21
108)	METHACRYLONITRILE	4.103	67	1073	0.3518600	ppb	#	1
109)	Cyclohexane	3.750	84	38325	1.9037764	ppb	#	71
111)	ISOBUTANOL	4.231	43	551	1.1382407	ppb	#	1
115)	N-BUTANOL	4.584	56	1879	10.2305071	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	58179	2.5570199	ppb	#	70
117)	2-nitropropane	5.417	43	4964	2.8662954	ppb	#	64
118)	METHYL METHACRYLATE	4.779	41	47007	6.8638629	ppb	#	89
119)	1,4-DIOXANE	4.791	88	4749	74.5415901	ppb	#	1
120)	n-octane	5.138	85	19945	2.3732014	ppb		93
121)	3,3-DIMETHYL-1-BUTANOL	6.032	57	3657	5.5292794	ppb	#	37
123)	ETHYL METHACRYLATE	5.600	69	3146	0.4261212	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	1905	1.1368417	ppb	#	8
125)	Cyclohexanone	7.413	55	2837	2.4262080	ppb	#	51
126)	PENTACHLOROETHANE	7.650	117	9095	2.5270549	ppb	#	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 04.D
Acq On : 11 Nov 2015 11:21 pm
Operator : 189
Sample : STD GROMS .4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:26 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 04.D
Acq On    : 11 Nov 2015  11:21 pm
Operator  : 189
Sample    : STD GROMS .4 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:28 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```
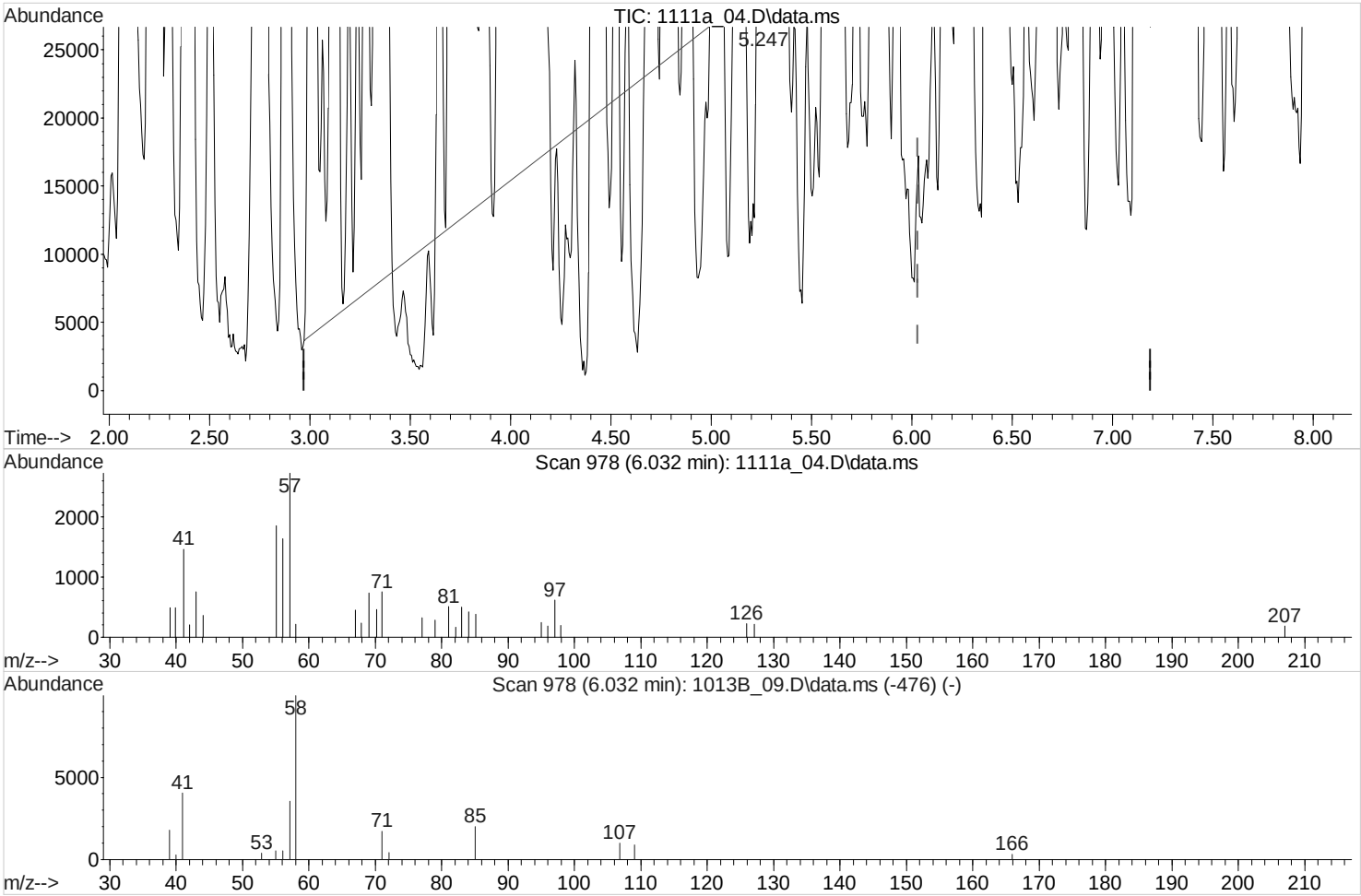



TIC: 1111a_04.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

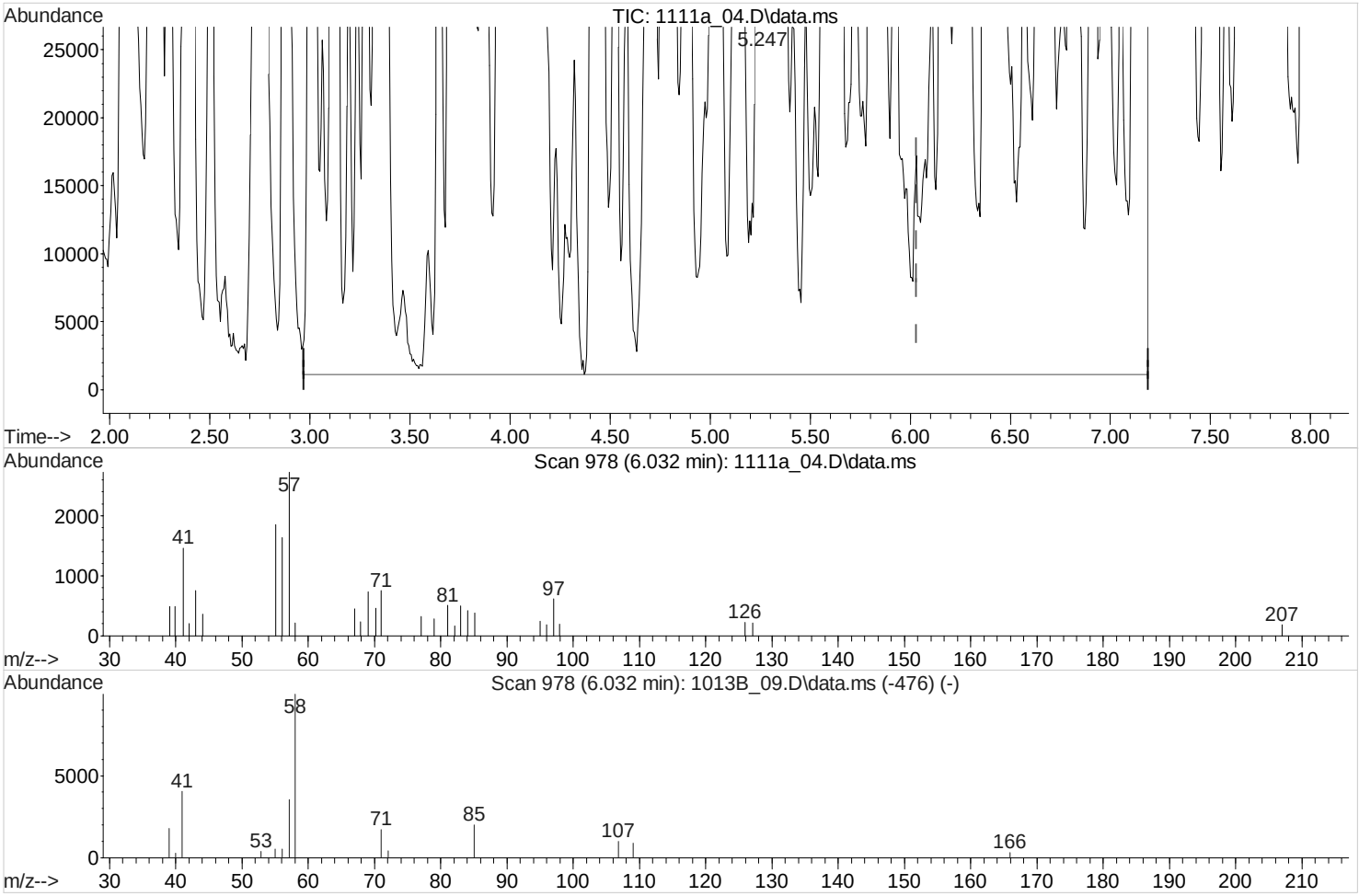
6.030min (0.000) 0.0511491 ppm m

response -976697

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-53.53#
0.00	0.00	-19.32#
0.00	0.00	-0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 04.D
Acq On    : 11 Nov 2015  11:21 pm
Operator  : 189
Sample    : STD GROMS .4 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:28 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```



TIC: 1111a_04.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.3002813 ppm m

response 9084560

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	5.47#
0.00	0.00	3.22#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 05.D
Acq On : 11 Nov 2015 11:41 pm
Operator : 189
Sample : STD GROMS 1 ppm 15K06943
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:49 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	488216	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	799740	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	123110	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	324007	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	488216	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	799740	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	123110	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	324007	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	213594	34.5340281	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 86.34%				
46) a,a,a-Trifluorotoluene	4.791	146	452786	44.0139032	ppb		-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.03%				
50) TOLUENE-D8	5.247	98	970043	38.7045501	ppb		-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 96.76%				
68) 4-BROMOFLUOROBENZENE	7.127	95	322374	41.1405764	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.85%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	27664399m	0.7948207	ppm		
3) PROPENE	1.542	41	931	0.3453317	ppb	#	18
5) CHLOROMETHANE	1.773	50	9989	0.9371115	ppb	#	71
13) ACROLEIN	2.741	56	53397	51.7933762	ppb	#	58
16) ACETONE	2.881	43	82675	21.9390501	ppb	#	76
20) ACRYLONITRILE	3.373	53	15891	7.2145328	ppb	#	48
21) n-Hexane	3.008	56	213099	22.6551899	ppb	#	62
25) VINYL ACETATE	3.465	43	5594	0.4125007	ppb	#	76
27) 2,2-Dichloropropane	3.647	77	5367	0.5569026	ppb	#	59
29) 2-BUTANONE (MEK)	3.939	43	28855	7.2744537	ppb	#	54
31) TETRAHYDROFURAN	3.890	42	1145	0.5414398	ppb	#	1
32) CHLOROFORM	3.744	83	10929	0.8262568	ppb	#	26
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	1018423	25.0068339	ppb		99
38) HEPTANE	4.043	43	173489	8.9604933	ppb	#	82
39) BENZENE	4.097	78	247056	7.0530278	ppb		95
43) 1,2-DICHLOROPROPANE	4.797	62	7404	1.2604424	ppb	#	27
45) BROMODICHLOROMETHANE	4.791	83	5624	0.6156676	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.478	43	21056	3.4092909	ppb	#	42
51) TOLUENE	5.284	91	1745815	51.6238711	ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5735	0.5861651	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.636	97	5567	1.1922382	ppb	#	16
57) 2-HEXANONE	6.105	58	794	1.5274205	ppb	#	14
62) ETHYLBENZENE	6.287	106	128833	13.7733843	ppb		88
63) M&P-XYLENE	6.379	106	612706	52.2526481	ppb		92
64) O-XYLENE	6.689	106	220381	20.2365870	ppb		92
67) Isopropylbenzene	6.908	105	57001	1.9569275	ppb		99
69) Bromobenzene	7.212	77	5964	0.4311633	ppb	#	32
70) 1,1,2,2-TETRACHLOROETHANE	7.230	83	5555	0.9306943	ppb	#	55
71) 1,2,3-TRICHLOROPROPANE	7.370	110	1093	0.7081617	ppb	#	19
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	1076	2.2625279	ppb	#	26
73) n-Propylbenzene	7.212	91	159797	4.3341046	ppb		95
74) 4-ETHYLTOLUENE	7.273	105	637199	22.5908077	ppb		95
76) 4-Chlorotoluene	7.516	91	17247	0.8313080	ppb	#	51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 05.D
Acq On : 11 Nov 2015 11:41 pm
Operator : 189
Sample : STD GROMS 1 ppm 15K06943
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:49 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

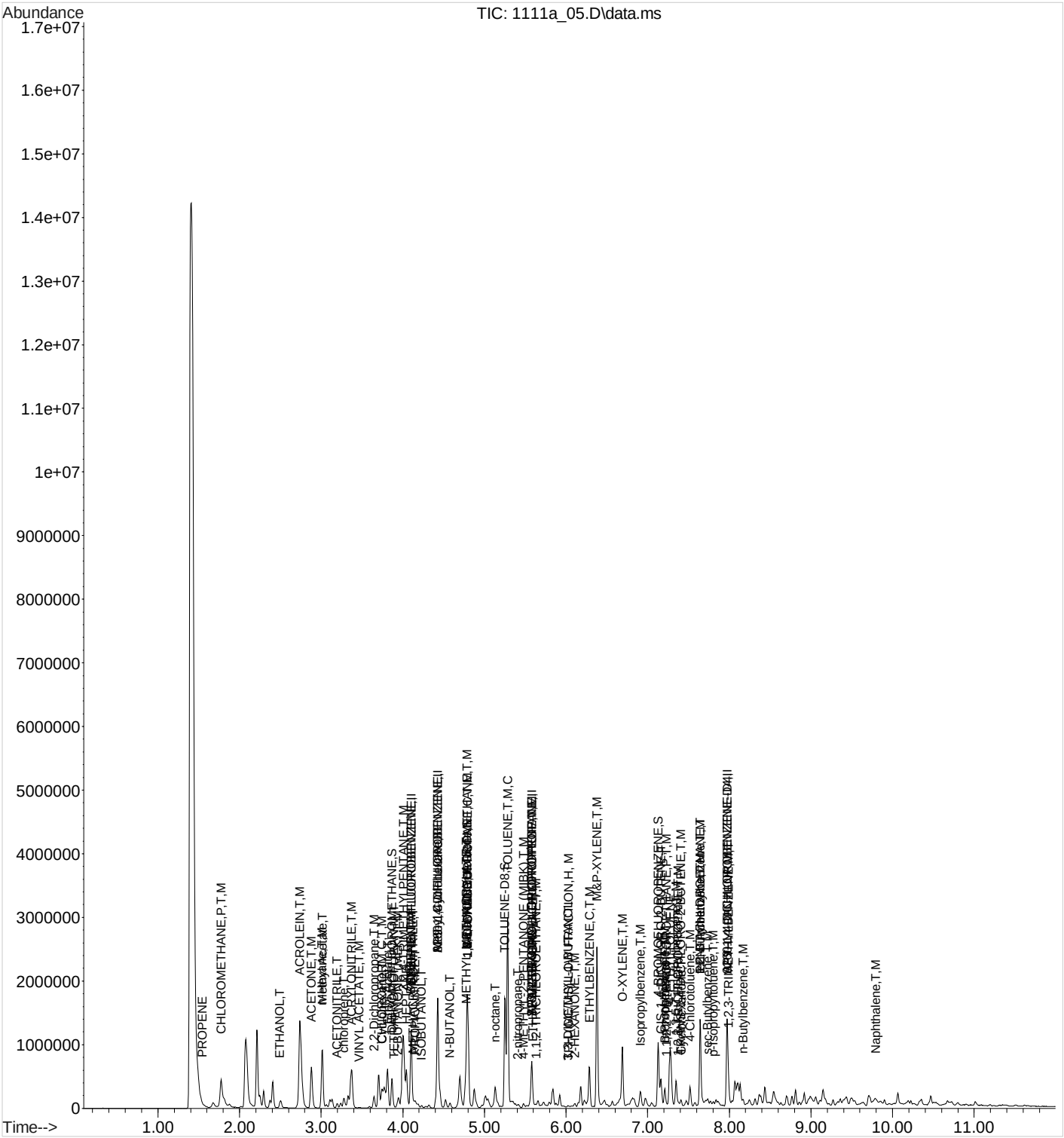
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77)	1,3,5-Trimethylbenzene	7.346	105	181820	7.4306555	ppb		93
78)	tert-Butylbenzene	7.644	119	77032	4.0487932	ppb	#	81
79)	1,2,4-Trimethylbenzene	7.644	105	613594	26.3818566	ppb		93
80)	sec-Butylbenzene	7.729	105	24543	0.7817956	ppb	#	73
82)	p-Isopropyltoluene	7.802	119	31917	1.3124809	ppb	#	83
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	147479	5.2481959	ppb		96
88)	n-Butylbenzene	8.167	91	30772	1.1251661	ppb	#	84
92)	Naphthalene	9.792	128	46297	2.6632372	ppb	#	84
97)	ETHANOL	2.491	45	4812	54.7726932	ppb	#	78
100)	Methyl Acetate	3.014	43	226322	43.2356354	ppb	#	56
101)	ACETONITRILE	3.191	41	19111	23.1954563	ppb	#	45
104)	chloroprene	3.276	53	6681	0.4609663	ppb	#	26
106)	PROPIONITRILE	4.152	54	3842	4.0462966	ppb	#	1
107)	Ethyl Acetate	3.811	43	215899	31.9053871	ppb	#	22
108)	METHACRYLONITRILE	4.128	67	1886	0.6495850	ppb	#	1
109)	Cyclohexane	3.751	84	101761	5.3093248	ppb	#	56
111)	ISOBUTANOL	4.225	43	548	1.1890147	ppb	#	1
115)	N-BUTANOL	4.578	56	4238	23.7452679	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	131205	5.9342245	ppb	#	63
117)	2-nitropropane	5.411	43	12697	7.5445968	ppb	#	58
118)	METHYL METHACRYLATE	4.779	41	115502	17.3556670	ppb	#	54
119)	1,4-DIOXANE	4.797	88	4692	75.7879616	ppb	#	1
120)	n-octane	5.131	85	50124	6.1375072	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	9567	14.8855571	ppb	#	35
123)	ETHYL METHACRYLATE	5.594	69	7603	1.0656093	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	4795	2.9609578	ppb	#	8
125)	Cyclohexanone	7.413	55	7731	6.8413683	ppb	#	54
126)	PENTACHLOROETHANE	7.644	117	21818	6.2728587	ppb	#	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 05.D
Acq On : 11 Nov 2015 11:41 pm
Operator : 189
Sample : STD GROMS 1 ppm 15K06943
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:49 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 05.D
Acq On    : 11 Nov 2015  11:41 pm
Operator  : 189
Sample    : STD GROMS 1 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:33 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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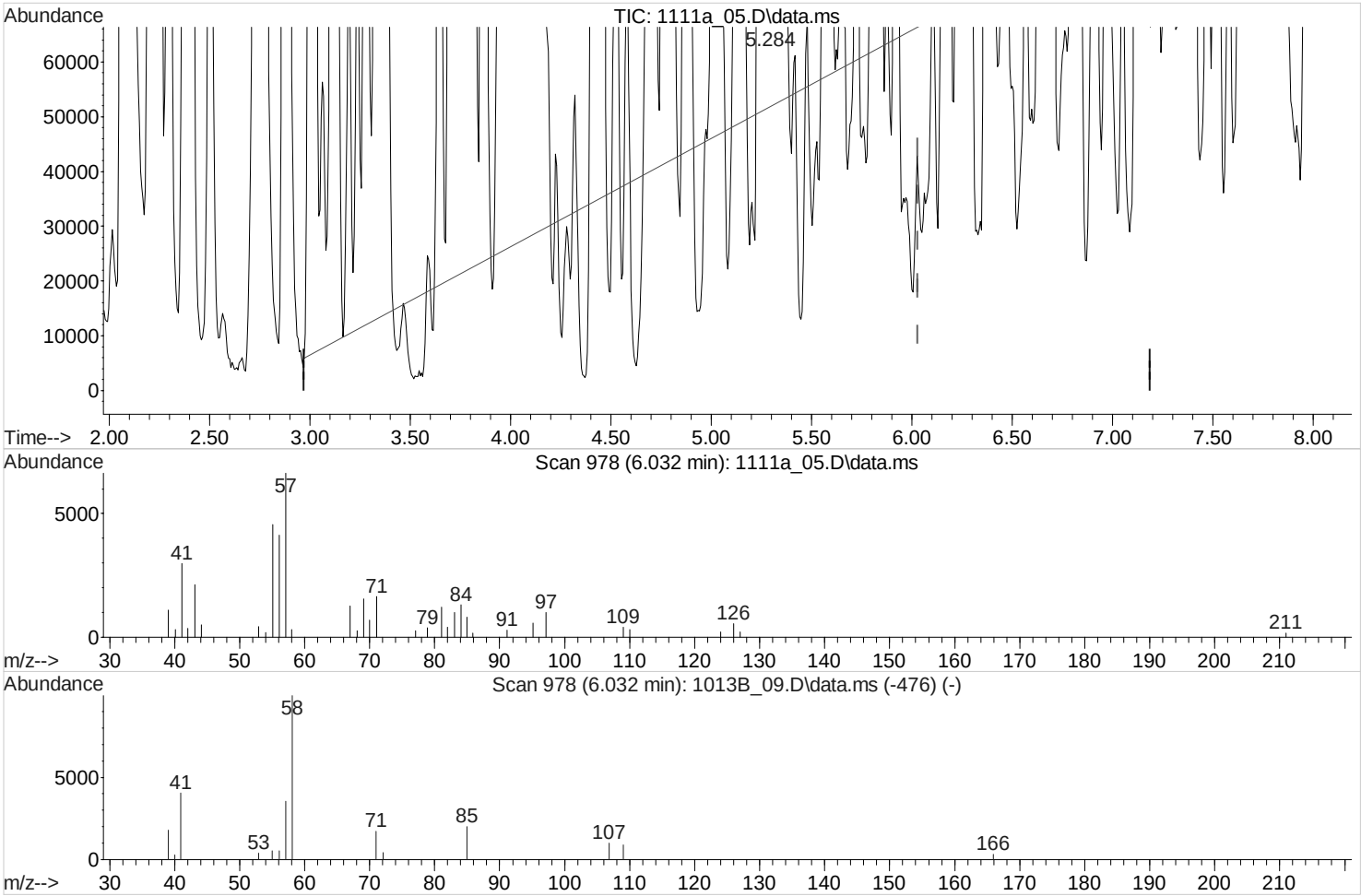


TIC: 1111a_05.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.1992382 ppm m

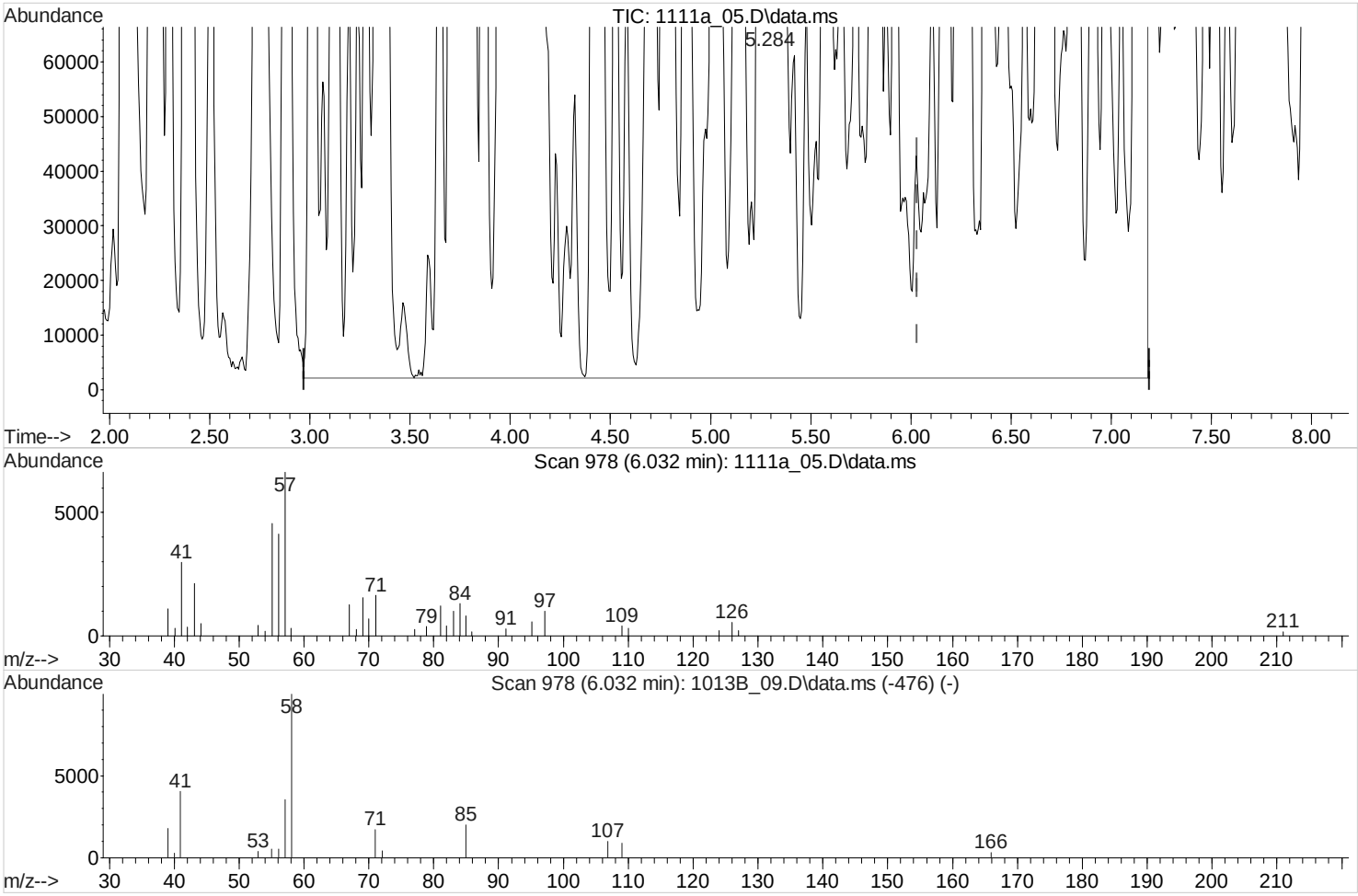
response 4764152

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	10.68#
0.00	0.00	4.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 05.D
Acq On : 11 Nov 2015 11:41 pm
Operator : 189
Sample : STD GROMS 1 ppm 15K06943
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:33 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_05.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.7948207 ppm m

response 27664399

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.80#
0.00	0.00	1.06#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:22:19 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	513567	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	840454	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	129882	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	332830	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	513567	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	840454	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	129882	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	332830	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	217382	33.4115534	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 83.53%				
46) a,a,a-Trifluorotoluene	4.791	146	469194	43.3994488	ppb		-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.50%				
50) TOLUENE-D8	5.247	98	1012366	38.4364667	ppb		-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 96.09%				
68) 4-BROMOFLUOROBENZENE	7.127	95	337887	40.8720302	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.18%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	64033743m	1.6584963	ppm		
3) PROPENE	1.542	41	1866	0.6579808	ppb	#	47
5) CHLOROMETHANE	1.761	50	18665	1.6646086	ppb	#	68
13) ACROLEIN	2.741	56	106376	98.0880088	ppb	#	46
16) ACETONE	2.880	43	174419	43.9999626	ppb	#	75
20) ACRYLONITRILE	3.367	53	33178	14.3193097	ppb	#	43
21) n-Hexane	3.008	56	451592	45.6401889	ppb	#	63
25) VINYL ACETATE	3.477	43	8934	0.6262722	ppb	#	76
29) 2-BUTANONE (MEK)	3.933	43	59923	14.3611016	ppb	#	55
31) TETRAHYDROFURAN	3.872	42	1555	0.6990206	ppb	#	1
32) CHLOROFORM	3.744	83	20464	1.4707541	ppb	#	26
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	2084884	48.6661852	ppb		99
38) HEPTANE	4.042	43	389475	19.1229312	ppb	#	83
39) BENZENE	4.097	78	525568	14.2634310	ppb		94
45) BROMODICHLOROMETHANE	4.797	83	8181	0.8522014	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	40915	6.3038462	ppb	#	45
51) TOLUENE	5.283	91	3753016	105.6009033	ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	6059	0.5892809	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.642	97	12837	2.6058518	ppb	#	1
57) 2-HEXANONE	6.080	58	678	1.4674773	ppb	#	8
62) ETHYLBENZENE	6.281	106	277958	28.1667725	ppb		89
63) M&P-XYLENE	6.378	106	1311290	105.9983939	ppb		90
64) O-XYLENE	6.689	106	467528	40.6925689	ppb		91
67) Isopropylbenzene	6.908	105	126073	4.1025956	ppb		98
69) Bromobenzene	7.206	77	11934	0.8177763	ppb	#	32
71) 1,2,3-TRICHLOROPROPANE	7.376	110	1185	0.7277379	ppb	#	19
72) TRANS-1,4-DICHLORO-2-B...	7.407	53	1206	2.3044023	ppb	#	26
73) n-Propylbenzene	7.212	91	338829	8.7107531	ppb		95
74) 4-ETHYLTOLUENE	7.273	105	1352159	45.4390037	ppb		94
77) 1,3,5-Trimethylbenzene	7.346	105	385794	14.9446348	ppb		96
79) 1,2,4-Trimethylbenzene	7.644	105	1294136	52.7410210	ppb		94
80) sec-Butylbenzene	7.729	105	50682	1.5302545	ppb	#	78
82) p-Isopropyltoluene	7.802	119	68851	2.6836479	ppb		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

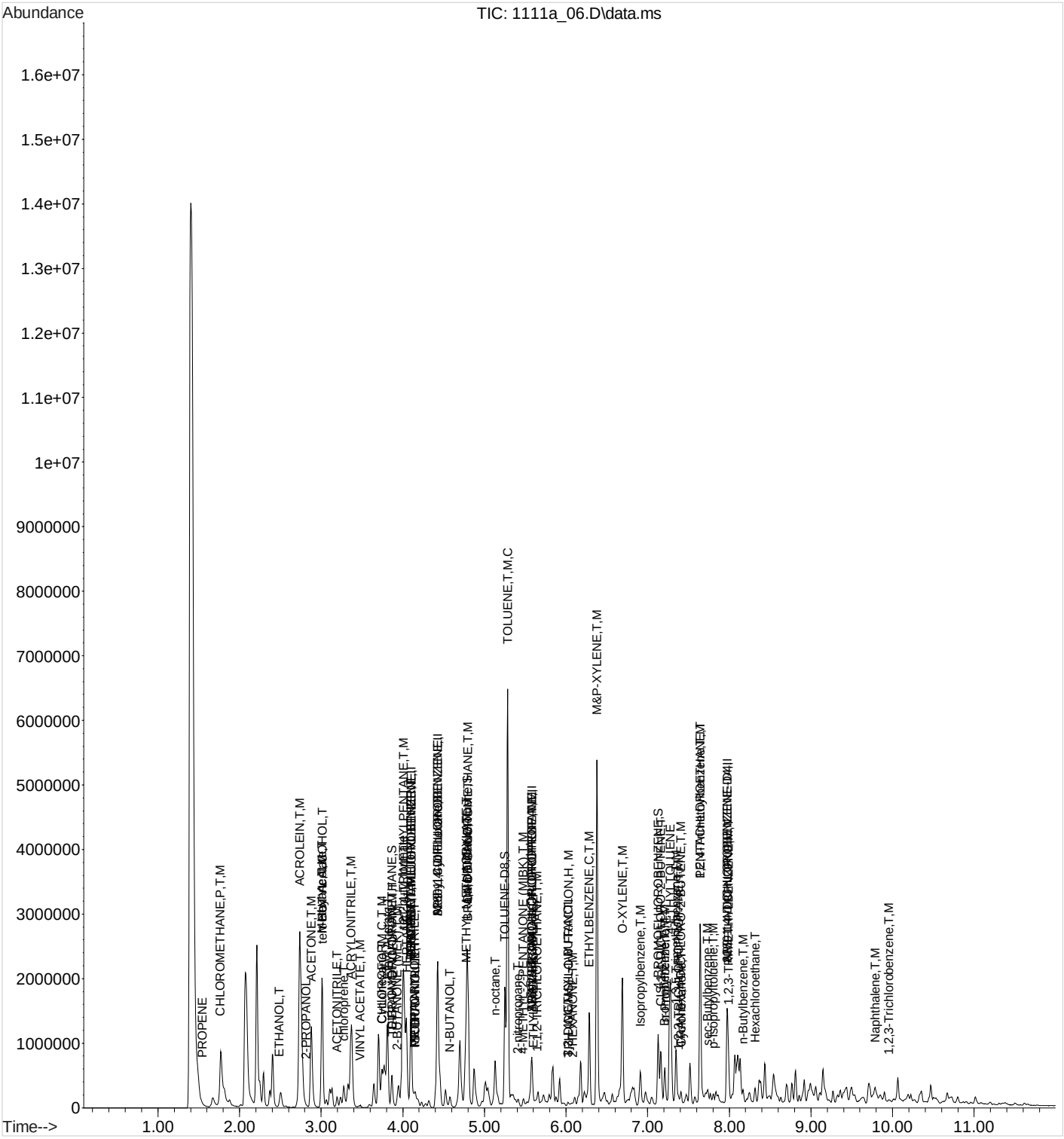
Quant Time: Nov 12 08:22:19 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	311122	10.7781074	ppb		94
88)	n-Butylbenzene	8.167	91	62720	2.2325382	ppb	#	84
92)	Naphthalene	9.785	128	107336	6.0108284	ppb	#	85
93)	1,2,3-Trichlorobenzene	9.950	180	2248	0.3052563	ppb	#	12
97)	ETHANOL	2.485	45	10210	110.4788430	ppb	#	91
99)	2-PROPANOL	2.814	45	750	1.6083743	ppb	#	54
100)	Methyl Acetate	3.008	43	489726	88.9371346	ppb	#	57
101)	ACETONITRILE	3.191	41	41835	48.2696534	ppb	#	47
103)	tert-BUTYL ALCOHOL	3.014	59	675	0.3543343	ppb	#	1
104)	chloroprene	3.276	53	13637	0.8944610	ppb	#	26
106)	PROPIONITRILE	4.152	54	7028	7.0363430	ppb	#	1
107)	Ethyl Acetate	3.811	43	638961	89.7640910	ppb	#	42
108)	METHACRYLONITRILE	4.146	67	10699	3.5030988	ppb	#	1
109)	Cyclohexane	3.744	84	195647	9.7038935	ppb	#	50
110)	tert-butyl formate	4.000	59	1832	0.3389437	ppb	#	1
111)	ISOBUTANOL	4.152	43	11394	23.5016179	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	8859	0.3182043	ppb	#	2
115)	N-BUTANOL	4.578	56	8232	43.8890675	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	272801	11.7407115	ppb	#	64
117)	2-nitropropane	5.411	43	24801	14.0229368	ppb	#	62
118)	METHYL METHACRYLATE	4.779	41	237314	33.9320449	ppb	#	44
119)	1,4-DIOXANE	4.791	88	4526	69.5651366	ppb	#	1
120)	n-octane	5.131	85	106516	12.4106925	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	20219	29.9353169	ppb	#	35
123)	ETHYL METHACRYLATE	5.600	69	17428	2.3152875	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.157	53	8080	4.7293269	ppb	#	8
125)	Cyclohexanone	7.413	55	13478	11.3051704	ppb	#	64
126)	PENTACHLOROETHANE	7.644	117	44870	12.2278753	ppb	#	13
127)	Hexachloroethane	8.313	117	2074	0.4619953	ppb	#	73

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

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

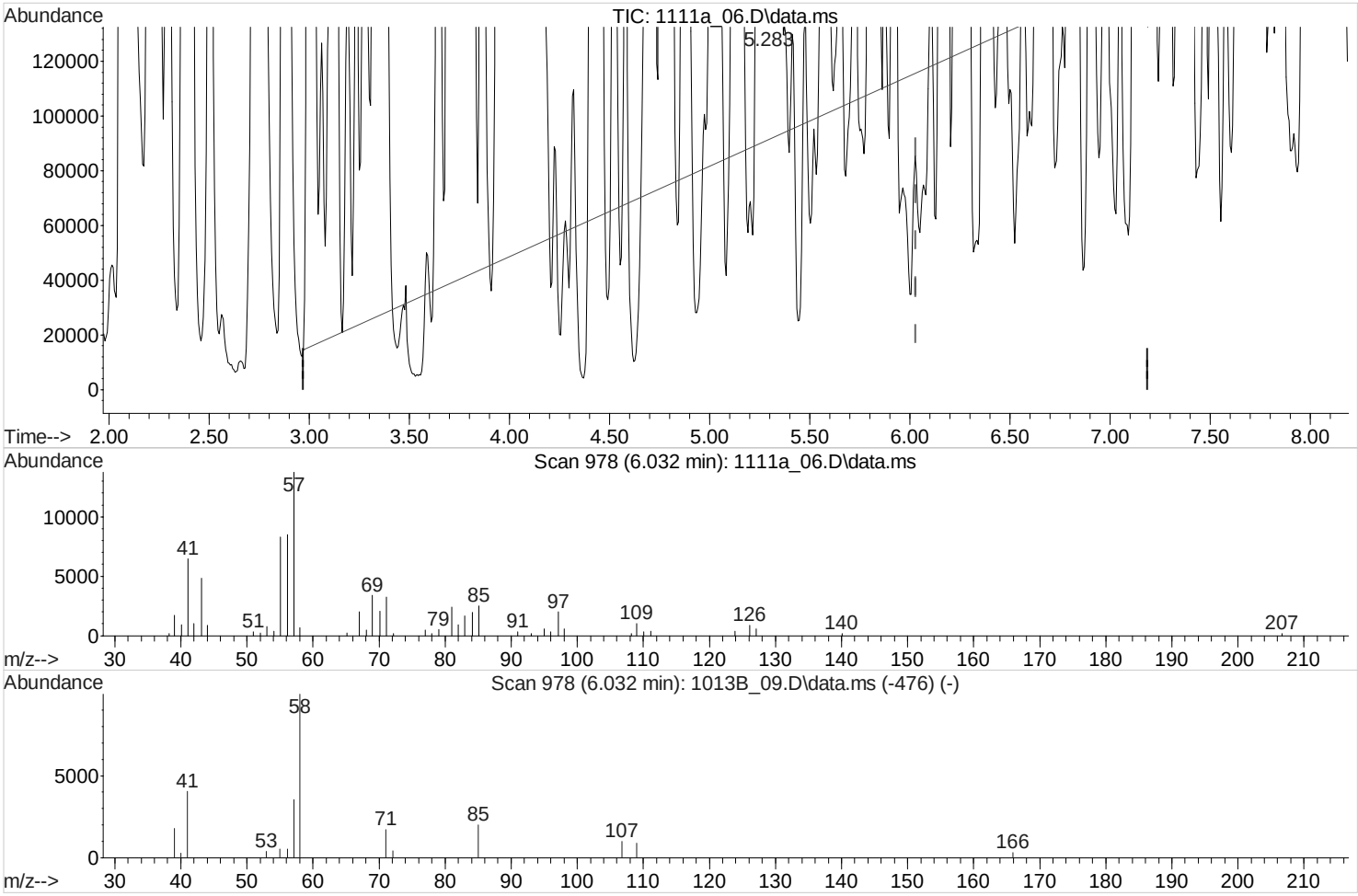
Quant Time: Nov 12 08:22:19 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:39 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_06.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.5169363 ppm m

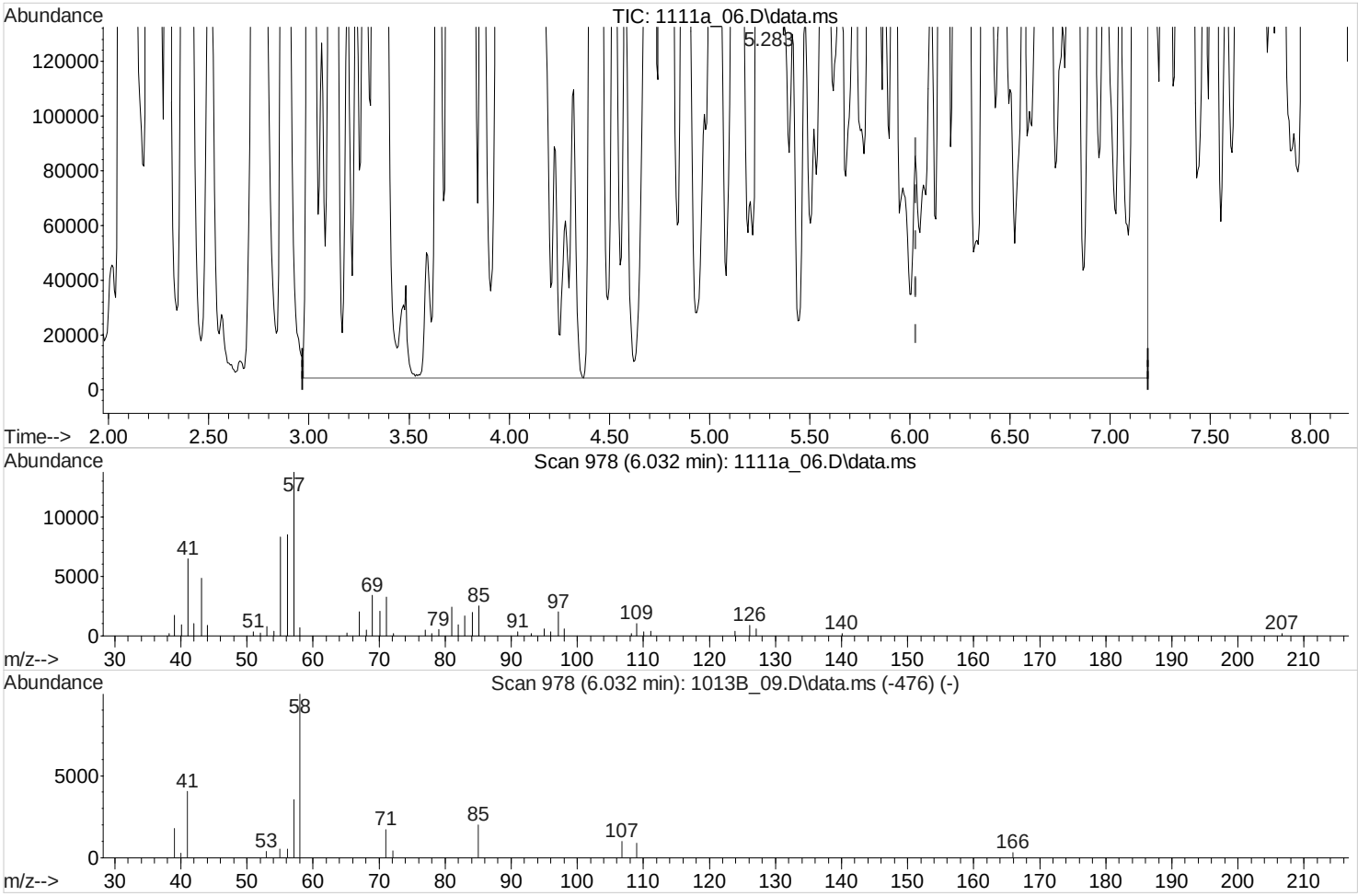
response 17861383

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	2.92#
0.00	0.00	1.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:39 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_06.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 1.6584963 ppm m

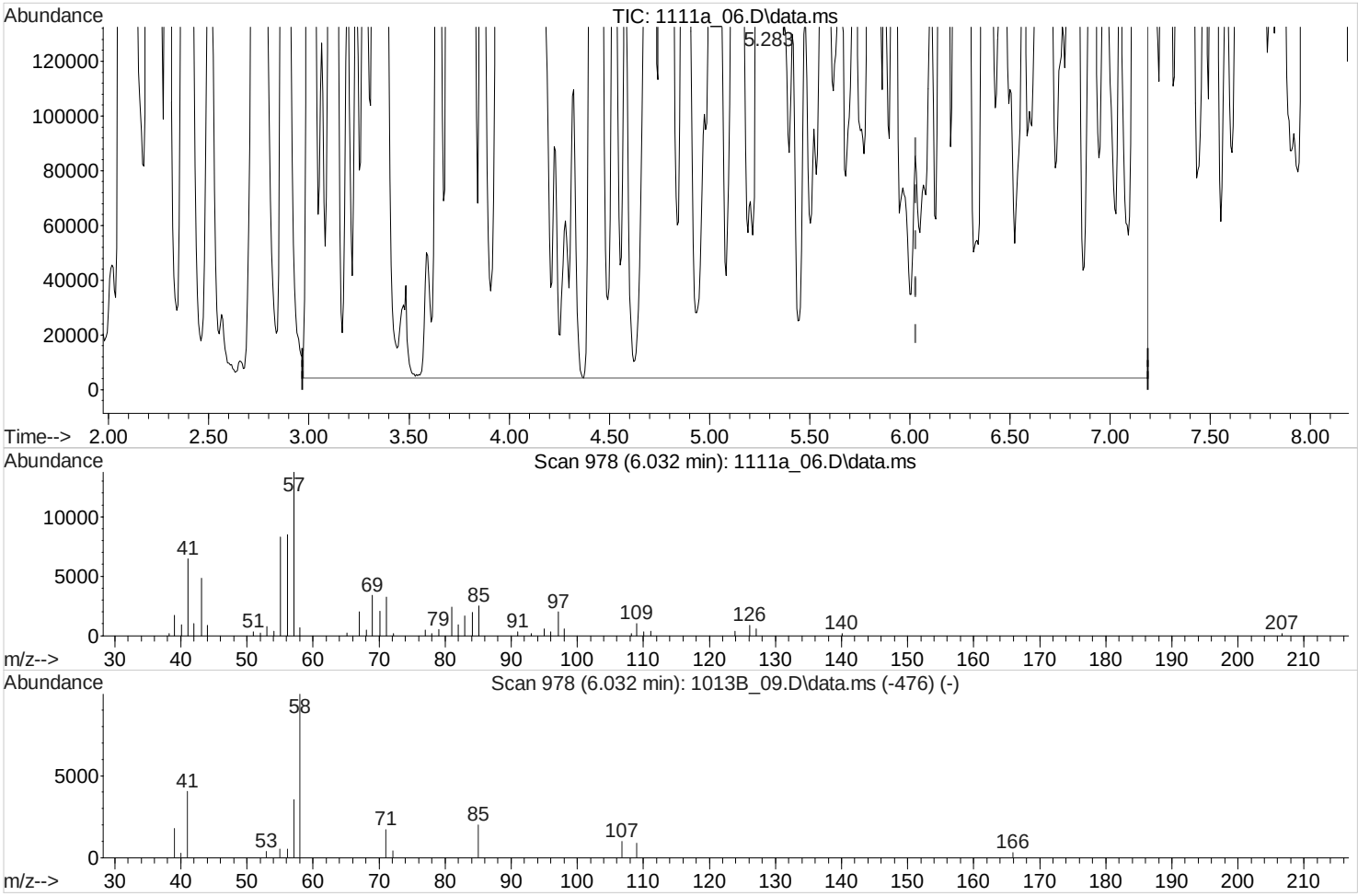
response 64033743

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.78#
0.00	0.00	0.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 06.D
Acq On : 12 Nov 2015 12:01 am
Operator : 189
Sample : STD GROMS 2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:39 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_06.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 1.6584963 ppm m

response 64033743

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.78#
0.00	0.00	0.46#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 07.D
Acq On : 12 Nov 2015 12:22 am
Operator : 189
Sample : STD GROMS 4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:22:46 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	537416	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	894026	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	134386	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	348047	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	537416	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	894026	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	134386	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	348047	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	226235	33.2291628	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 83.07%				
46) a,a,a-Trifluorotoluene	4.791	146	491243	42.7161338	ppb		-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.79%				
50) TOLUENE-D8	5.247	98	1049293	37.4512642	ppb		-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 93.63%				
68) 4-BROMOFLUOROBENZENE	7.127	95	358916	41.9606770	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.90%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	133974905m	3.2407193	ppm		
3) PROPENE	1.542	41	3055	1.0294360	ppb	#	65
5) CHLOROMETHANE	1.767	50	35669	3.0399160	ppb	#	71
11) DICHLOROFLUOROMETHANE	2.248	67	6580	0.3914355	ppb	#	1
13) ACROLEIN	2.741	56	212874	187.5777841	ppb	#	15
16) ACETONE	2.881	43	342219	82.4990886	ppb	#	75
20) ACRYLONITRILE	3.367	53	63472	26.1782482	ppb	#	42
21) n-Hexane	3.008	56	895124	86.4511775	ppb	#	62
24) 1,1-DICHLOROETHANE	3.367	63	7860	0.4477730	ppb	#	1
25) VINYL ACETATE	3.465	43	18702	1.2528288	ppb	#	91
29) 2-BUTANONE (MEK)	3.933	43	122164	27.9784705	ppb	#	55
31) TETRAHYDROFURAN	3.878	42	3271	1.4051629	ppb	#	1
32) CHLOROFORM	3.751	83	38460	2.6414679	ppb	#	26
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	4169141	92.9990493	ppb		98
38) HEPTANE	4.043	43	784919	36.8286869	ppb	#	85
39) BENZENE	4.097	78	1056430	27.3982191	ppb		94
43) 1,2-DICHLOROPROPANE	4.718	62	2431	0.3702032	ppb	#	1
44) DIBROMOMETHANE	4.663	93	1657	0.4327476	ppb	#	1
45) BROMODICHLOROMETHANE	4.797	83	14195	1.3900649	ppb	#	1
47) 2-CHLOROETHYL VINYL ETHER	5.034	63	2519	0.8147681	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	85713	12.4146234	ppb	#	44
51) TOLUENE	5.284	91	7607473	201.2294018	ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5824	0.5324840	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.636	97	25958	5.0927497	ppb	#	15
57) 2-HEXANONE	6.075	58	881	1.5325999	ppb	#	1
62) ETHYLBENZENE	6.281	106	563190	55.1579076	ppb		89
63) M&P-XYLENE	6.379	106	2731317	213.3868162	ppb		90
64) O-XYLENE	6.689	106	960045	80.7595727	ppb		92
67) Isopropylbenzene	6.908	105	249625	7.8509036	ppb		98
69) Bromobenzene	7.206	77	24325	1.6110028	ppb	#	32
70) 1,1,2,2-TETRACHLOROETHANE	7.303	83	2320	0.3560822	ppb	#	26
71) 1,2,3-TRICHLOROPROPANE	7.382	110	2563	1.5212486	ppb	#	19
72) TRANS-1,4-DICHLORO-2-B...	7.401	53	2861	3.2263815	ppb	#	26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 07.D
Acq On : 12 Nov 2015 12:22 am
Operator : 189
Sample : STD GROMS 4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:22:46 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

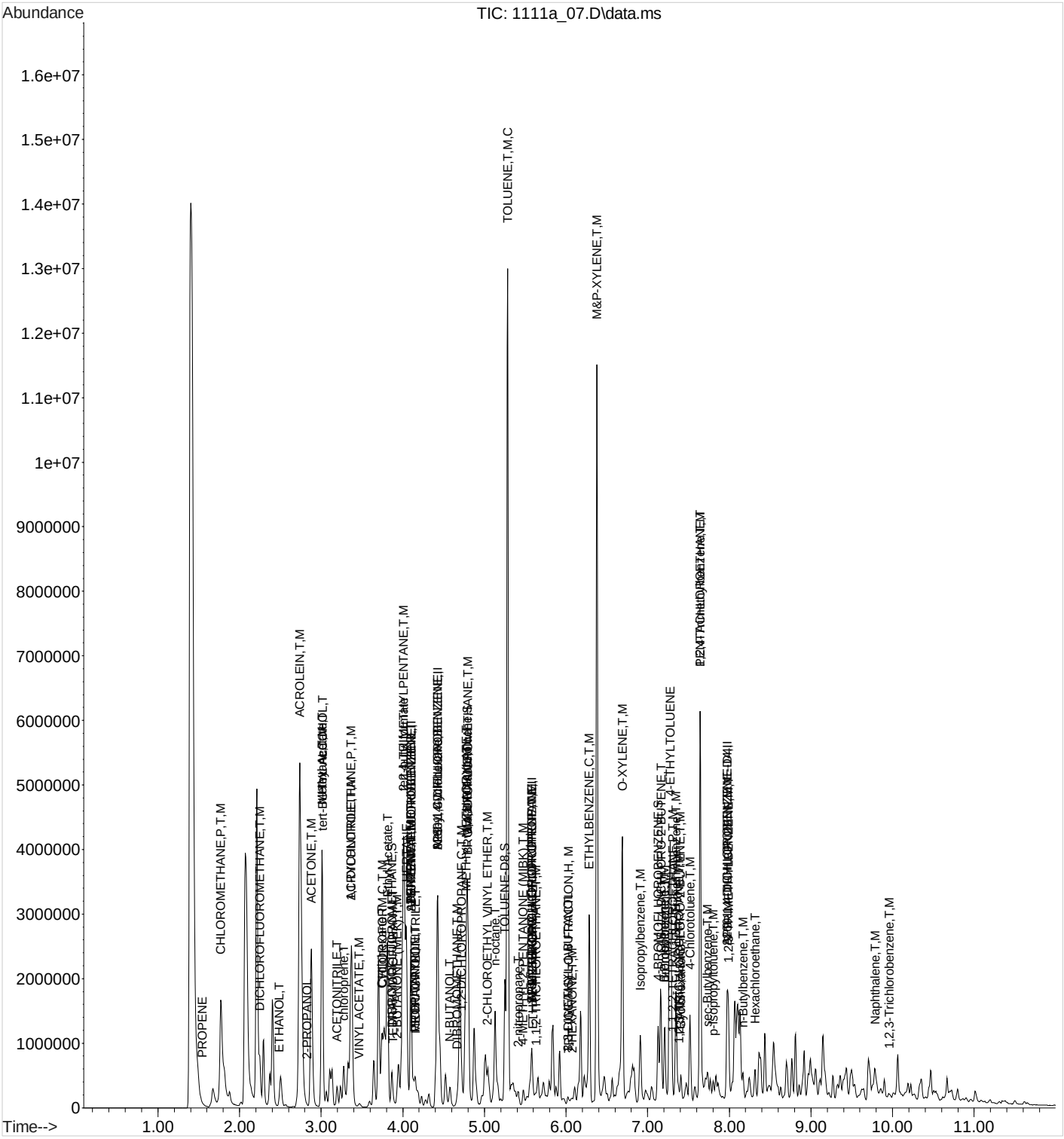
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	n-Propylbenzene	7.206	91	689024	17.1200259	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	2773452	90.0775636	ppb		94
76)	4-Chlorotoluene	7.516	91	73489	3.2449652	ppb	#	53
77)	1,3,5-Trimethylbenzene	7.346	105	773338	28.9530372	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	2676806	105.4339439	ppb		93
80)	sec-Butylbenzene	7.729	105	100310	2.9271777	ppb	#	75
82)	p-Isopropyltoluene	7.802	119	126521	4.7662064	ppb	#	87
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	632988	20.9696814	ppb		96
88)	n-Butylbenzene	8.167	91	125889	4.2851418	ppb		94
92)	Naphthalene	9.786	128	203120	10.8774272	ppb	#	85
93)	1,2,3-Trichlorobenzene	9.956	180	3298	0.4282561	ppb	#	12
97)	ETHANOL	2.485	45	21803	225.4530671	ppb	#	90
99)	2-PROPANOL	2.826	45	611	1.2521420	ppb	#	54
100)	Methyl Acetate	3.008	43	953938	165.5528411	ppb	#	57
101)	ACETONITRILE	3.191	41	85416	94.1803183	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.014	59	1157	0.5804025	ppb	#	1
104)	chloroprene	3.276	53	24187	1.5160415	ppb	#	26
106)	PROPIONITRILE	4.152	54	15323	14.6603916	ppb	#	1
107)	Ethyl Acetate	3.811	43	1263121	169.5741932	ppb	#	42
108)	METHACRYLONITRILE	4.158	67	20682	6.4712511	ppb	#	1
109)	Cyclohexane	3.744	84	383620	18.1827927	ppb	#	50
110)	tert-butyl formate	4.006	59	3307	0.5846862	ppb	#	1
111)	ISOBUTANOL	4.152	43	23253	45.8339256	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	16954	0.5819425	ppb	#	74
115)	N-BUTANOL	4.578	56	16528	82.8390472	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	520274	21.0496259	ppb	#	60
117)	2-nitropropane	5.417	43	50592	26.8915250	ppb	#	66
118)	METHYL METHACRYLATE	4.779	41	463848	62.3485218	ppb	#	38
119)	1,4-DIOXANE	4.791	88	4723	68.2431143	ppb	#	1
120)	n-octane	5.132	85	220146	24.1132508	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	40154	55.8877726	ppb	#	36
123)	ETHYL METHACRYLATE	5.594	69	33956	4.3598228	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	16656	9.4222284	ppb	#	8
125)	Cyclohexanone	7.407	55	22735	18.4306885	ppb	#	68
126)	PENTACHLOROETHANE	7.644	117	91561	24.1157293	ppb	#	13
127)	Hexachloroethane	8.313	117	3867	0.8325262	ppb	#	71

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 07.D
Acq On : 12 Nov 2015 12:22 am
Operator : 189
Sample : STD GROMS 4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:22:46 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 07.D
Acq On    : 12 Nov 2015  12:22 am
Operator  : 189
Sample    : STD GROMS 4 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 7   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:45 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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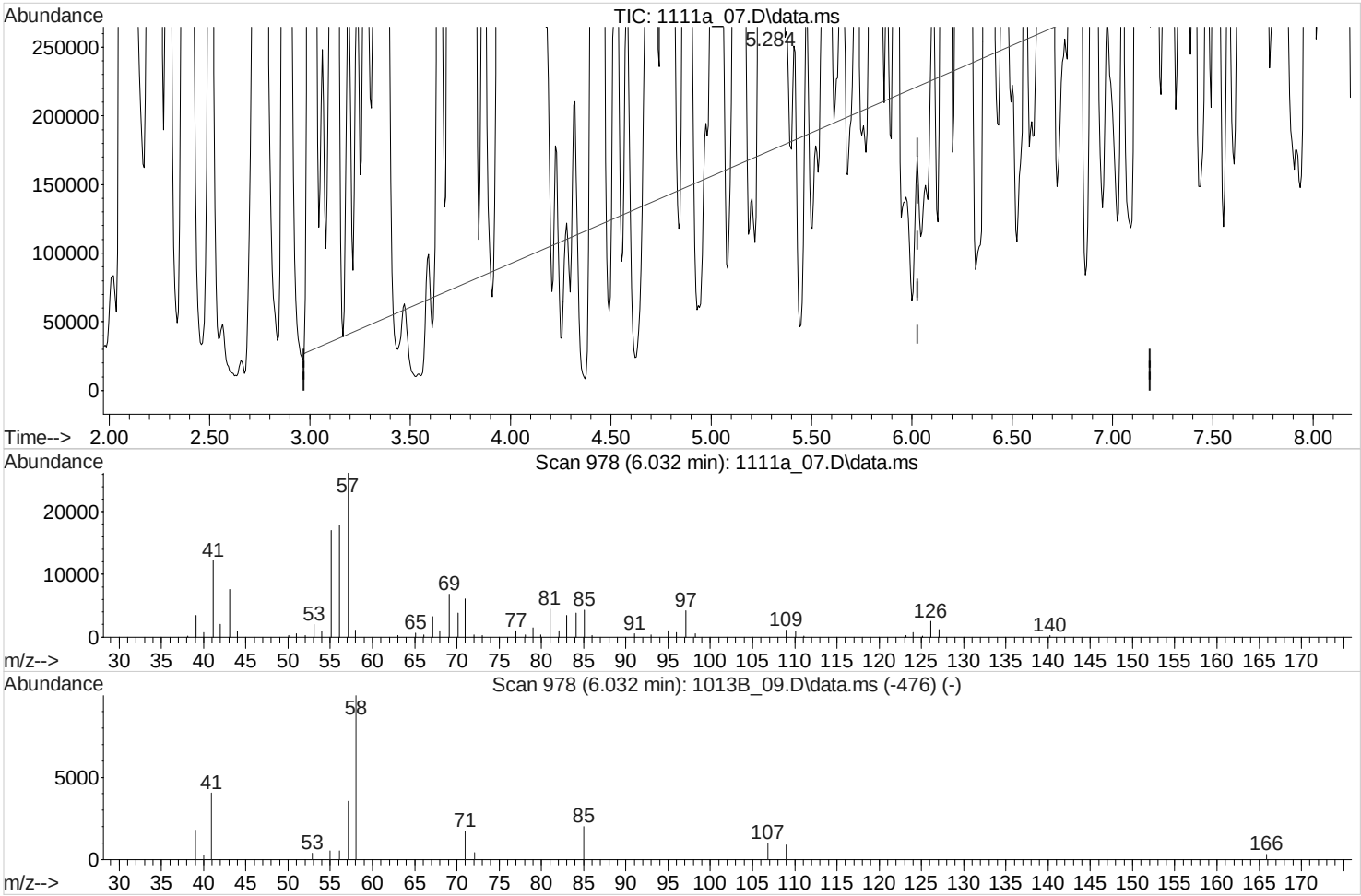


TIC: 1111a_07.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 1.3778426 ppm m

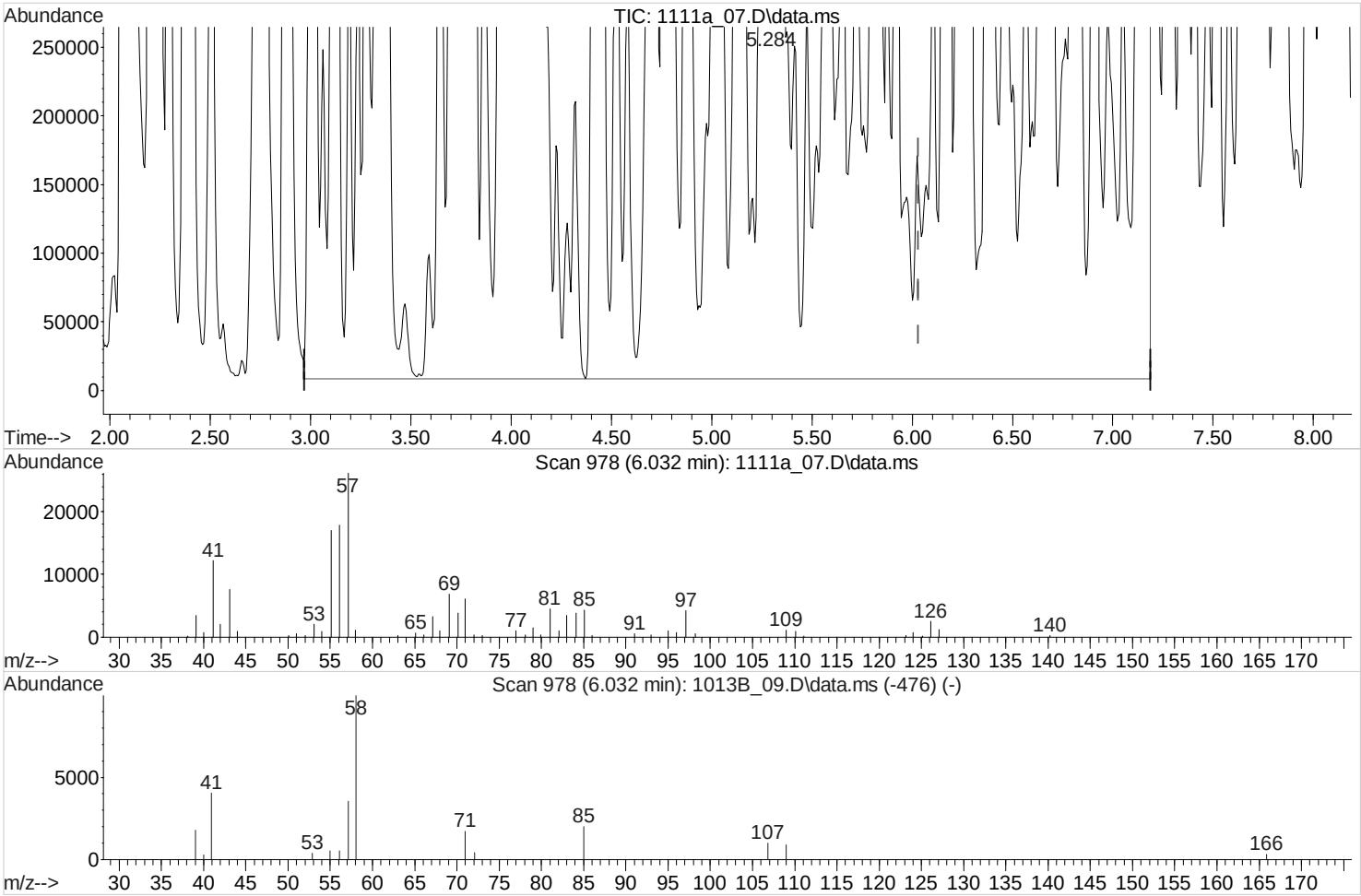
response 55128674

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.98#
0.00	0.00	0.40#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 07.D
Acq On : 12 Nov 2015 12:22 am
Operator : 189
Sample : STD GROMS 4 ppm 15K06943
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:45 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_07.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 3.2407193 ppm m

response 133974905

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.37#
0.00	0.00	0.22#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 08.D
Acq On : 12 Nov 2015 12:42 am
Operator : 189
Sample : MSTD GROMS 5.0 ppm 15K06943
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:23:15 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	516983	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	854340	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	126327	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	335486	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	516983	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	854340	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	126327	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	335486	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	220255	33.6294459 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 84.07%		
46) a,a,a-Trifluorotoluene	4.791	146	473797	43.1129041 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.78%		
50) TOLUENE-D8	5.247	98	1009512	37.7051437 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 94.26%		
68) 4-BROMOFLUOROBENZENE	7.127	95	354938	44.1428135 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 110.36%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC 162065784m		4.0557532 ppm	
3) PROPENE	1.548	41	4127	1.4456292 ppb #	78
5) CHLOROMETHANE	1.767	50	44469	3.9396926 ppb #	75
11) DICHLOROFLUOROMETHANE	2.248	67	7765	0.4801866 ppb #	1
13) ACROLEIN	2.741	56	255868	234.3738125 ppb #	45
16) ACETONE	2.881	43	430139	107.7924104 ppb #	75
19) METHYLENE CHLORIDE	2.881	84	2650	0.3074487 ppb #	1
20) ACRYLONITRILE	3.367	53	78107	33.4874968 ppb #	42
21) n-Hexane	3.008	56	1088519	109.2843705 ppb #	62
24) 1,1-DICHLOROETHANE	3.373	63	9752	0.5775151 ppb #	1
25) VINYL ACETATE	3.471	43	19783	1.3776223 ppb #	87
29) 2-BUTANONE (MEK)	3.939	43	148408	35.3323372 ppb #	55
31) TETRAHYDROFURAN	3.884	42	4707	2.1019610 ppb #	1
32) CHLOROFORM	3.744	83	47332	3.3792883 ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	5176834	120.0412460 ppb	98
38) HEPTANE	4.043	43	937756	45.7388851 ppb #	82
39) BENZENE	4.097	78	1277695	34.4463439 ppb	93
43) 1,2-DICHLOROPROPANE	4.718	62	3105	0.4948075 ppb #	1
44) DIBROMOMETHANE	4.663	93	1958	0.5351115 ppb #	1
45) BROMODICHLOROMETHANE	4.797	83	16902	1.7320370 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.046	63	1267	0.4288465 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	100385	15.2151096 ppb #	45
51) TOLUENE	5.284	91	9189569	254.3698116 ppb	97
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5826	0.5574104 ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.636	97	31399	6.5532203 ppb #	15
57) 2-HEXANONE	6.068	58	1347	1.7328534 ppb #	1
58) CHLORODIBROMOMETHANE	5.837	129	1494	0.3175671 ppb #	20
62) ETHYLBENZENE	6.281	106	687244	71.6014224 ppb	90
63) M&P-XYLENE	6.379	106	3327931	276.5843697 ppb	90
64) O-XYLENE	6.689	106	1166790	104.4126132 ppb	92
67) Isopropylbenzene	6.908	105	298387	9.9831894 ppb	97
69) Bromobenzene	7.206	77	29320	2.0656905 ppb #	32
71) 1,2,3-TRICHLOROPROPANE	7.376	110	3046	1.9232659 ppb #	19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 08.D
Acq On : 12 Nov 2015 12:42 am
Operator : 189
Sample : MSTD GROMS 5.0 ppm 15K06943
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:23:15 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

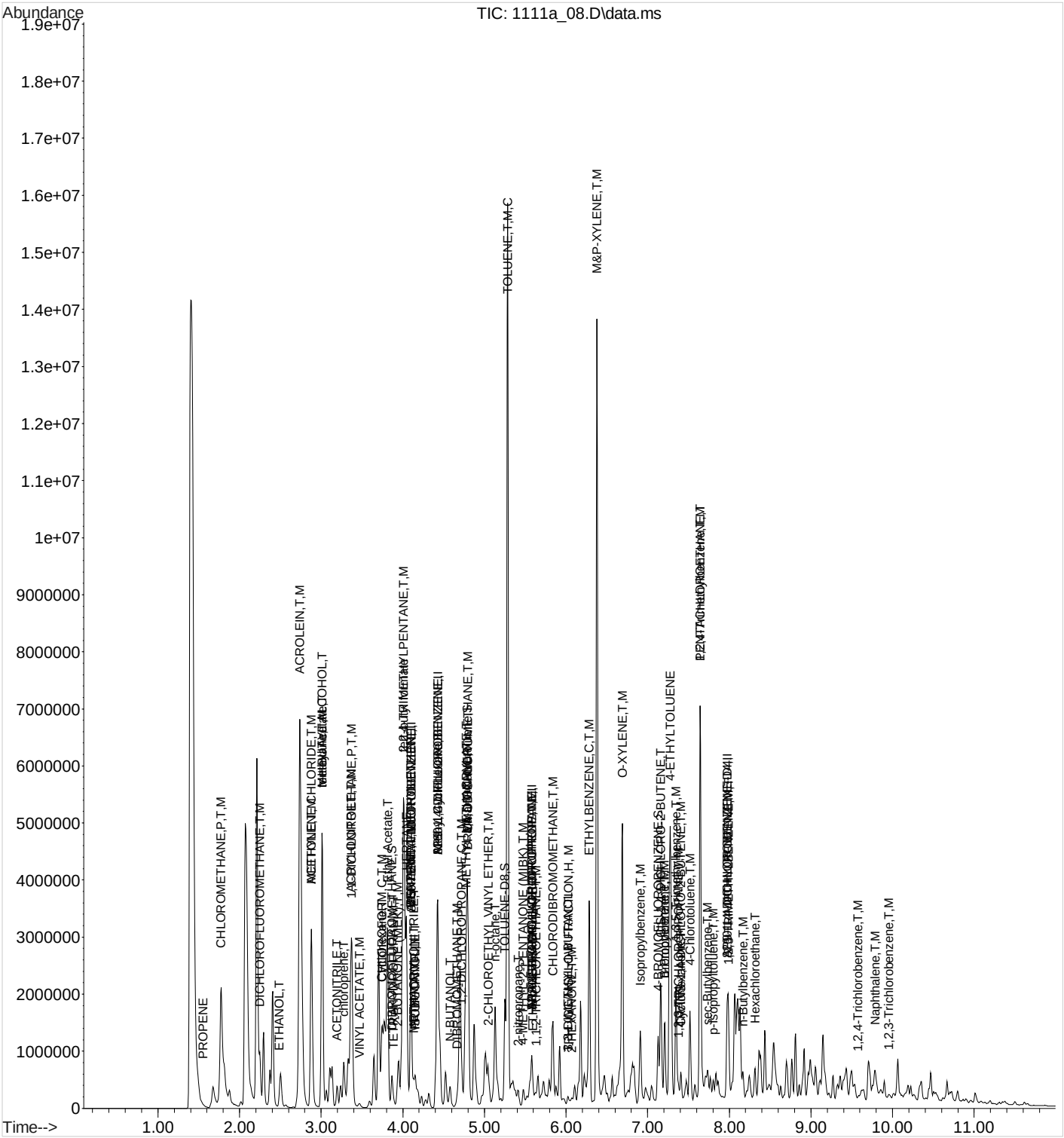
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72)	TRANS-1,4-DICHLORO-2-B...	7.407	53	3288	3.5903070	ppb	#	26
73)	n-Propylbenzene	7.206	91	832127	21.9946739	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	3342938	115.5000424	ppb		94
76)	4-Chlorotoluene	7.516	91	90824	4.2662488	ppb	#	54
77)	1,3,5-Trimethylbenzene	7.346	105	910261	36.2533846	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	3178439	133.1788562	ppb		93
80)	sec-Butylbenzene	7.729	105	110448	3.4286295	ppb	#	70
82)	p-Isopropyltoluene	7.802	119	149290	5.9827216	ppb	#	88
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	743479	25.5522151	ppb		95
88)	n-Butylbenzene	8.167	91	149954	5.2954024	ppb		96
90)	1,2,4-Trichlorobenzene	9.573	180	3213	0.4280405	ppb	#	30
92)	Naphthalene	9.785	128	235796	13.1000641	ppb	#	86
93)	1,2,3-Trichlorobenzene	9.950	180	4696	0.6326223	ppb	#	23
97)	ETHANOL	2.485	45	23796	255.7868320	ppb	#	90
100)	Methyl Acetate	3.008	43	1164293	210.0453663	ppb	#	57
101)	ACETONITRILE	3.191	41	104283	119.5277572	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.008	59	1502	0.7832496	ppb	#	1
104)	chloroprene	3.276	53	30288	1.9734858	ppb	#	26
106)	PROPIONITRILE	4.152	54	17143	17.0499427	ppb	#	1
107)	Ethyl Acetate	3.811	43	1541399	215.1117862	ppb	#	42
108)	METHACRYLONITRILE	4.134	67	10313	3.3544016	ppb	#	1
109)	Cyclohexane	3.744	84	466154	22.9679953	ppb	#	58
110)	tert-butyl formate	4.006	59	4485	0.8243002	ppb	#	1
111)	ISOBUTANOL	4.152	43	24699	50.6083017	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	20901	0.7457775	ppb	#	87
115)	N-BUTANOL	4.584	56	19957	104.6717432	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	635934	26.9242560	ppb	#	62
117)	2-nitropropane	5.417	43	61386	34.1446234	ppb	#	61
118)	METHYL METHACRYLATE	4.779	41	567303	79.7967056	ppb	#	36
119)	1,4-DIOXANE	4.791	88	4527	68.4495812	ppb	#	1
120)	n-octane	5.132	85	265914	30.4793412	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	48907	71.2325381	ppb	#	33
123)	ETHYL METHACRYLATE	5.594	69	32707	4.4673592	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.157	53	21780	13.1068593	ppb	#	8
125)	Cyclohexanone	7.407	55	27857	24.0236388	ppb	#	65
126)	PENTACHLOROETHANE	7.644	117	106263	29.7734931	ppb	#	13
127)	Hexachloroethane	8.313	117	4233	0.9694599	ppb	#	71

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 08.D
Acq On : 12 Nov 2015 12:42 am
Operator : 189
Sample : MSTD GROMS 5.0 ppm 15K06943
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:23:15 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 08.D
Acq On    : 12 Nov 2015  12:42 am
Operator  : 189
Sample    : MSTD GROMS 5.0 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 8   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:51 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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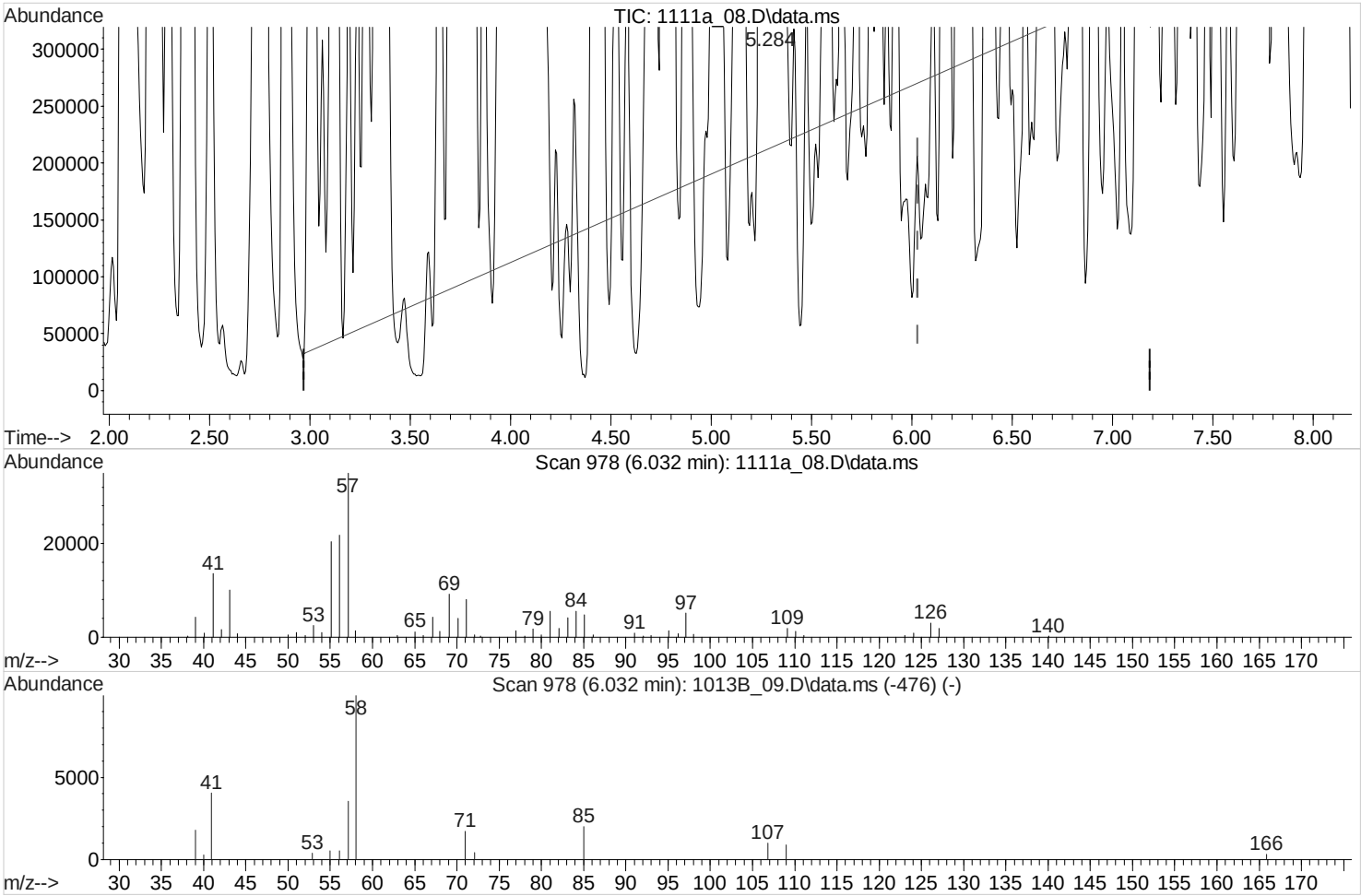


TIC: 1111a_08.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 1.7683588 ppm m

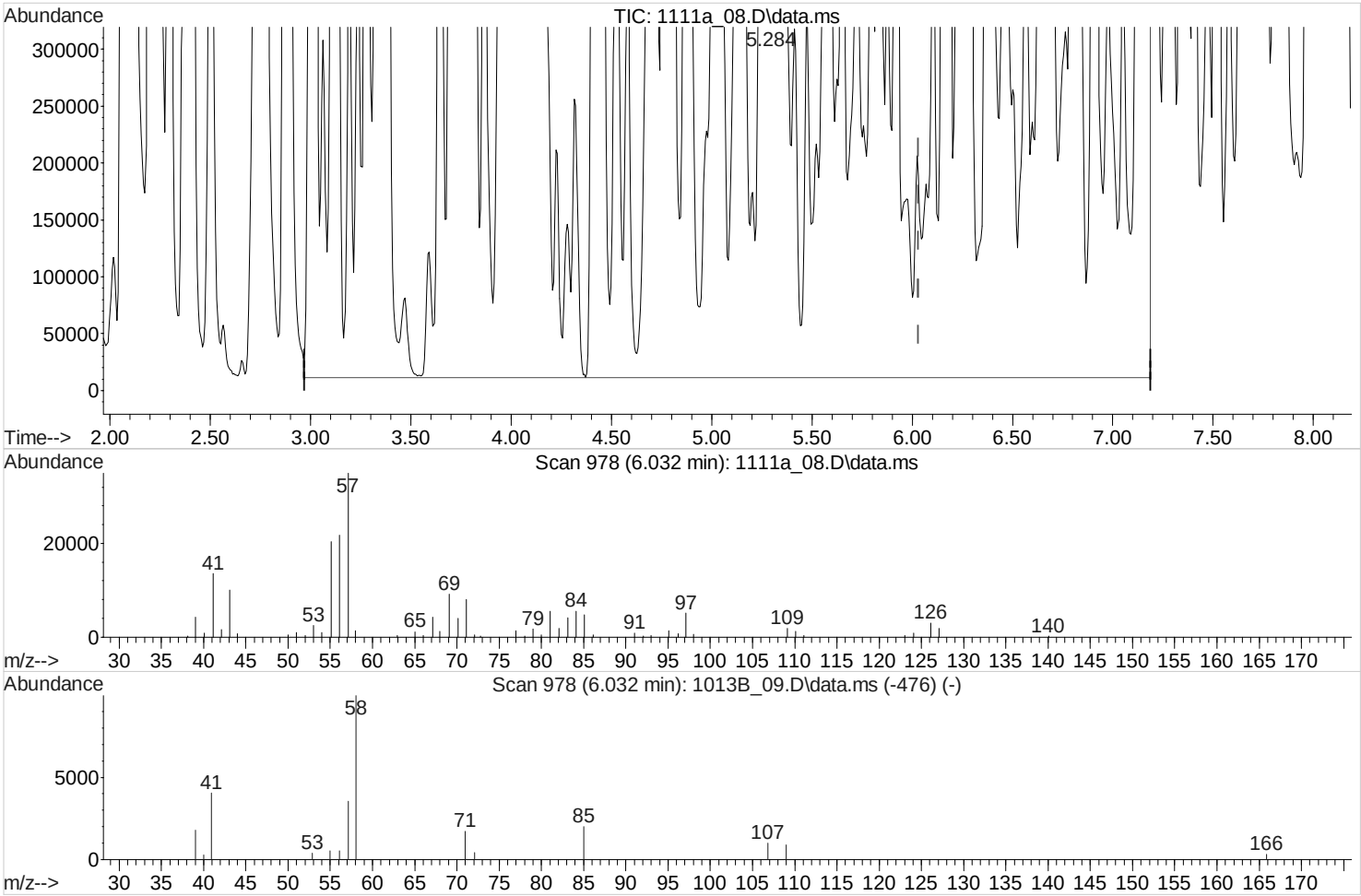
response 68932800

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.76#
0.00	0.00	0.32#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 08.D
Acq On    : 12 Nov 2015  12:42 am
Operator  : 189
Sample    : MSTD GROMS 5.0 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 8   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:51 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```



TIC: 1111a_08.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 4.0557532 ppm m

response 162065784

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.31#
0.00	0.00	0.18#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 09.D
Acq On : 12 Nov 2015 1:02 am
Operator : 189
Sample : STD GROMS 7 ppm 15K06943
Misc : water 15J30547
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:23:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	450055	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	767619	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	119797	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	297107	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	450055	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	767619	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	119797	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	297107	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	192621	33.7837800 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 84.46%		
46) a,a,a-Trifluorotoluene	4.791	146	421108	42.6474912 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.62%		
50) TOLUENE-D8	5.247	98	896897	37.2835031 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 93.21%		
68) 4-BROMOFLUOROBENZENE	7.127	95	334870	43.9171344 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 109.79%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC 216653132m		6.1877532 ppm	
3) PROPENE	1.542	41	5249	2.1120768 ppb #	75
4) DICHLORODIFLUOROMETHANE	1.591	85	1674	0.3102531 ppb #	43
5) CHLOROMETHANE	1.767	50	60033	6.1095004 ppb #	68
11) DICHLOROFLUOROMETHANE	2.248	67	10399	0.7387047 ppb #	1
13) ACROLEIN	2.741	56	354869	373.3978769 ppb #	42
16) ACETONE	2.880	43	583404	167.9420446 ppb #	75
20) ACRYLONITRILE	3.367	53	105372	51.8953712 ppb #	42
21) n-Hexane	3.008	56	1489729	171.8066559 ppb #	62
24) 1,1-DICHLOROETHANE	3.367	63	13687	0.9310834 ppb #	1
25) VINYL ACETATE	3.465	43	31752	2.5399184 ppb #	87
27) 2,2-Dichloropropane	3.702	77	3895	0.4384313 ppb #	59
29) 2-BUTANONE (MEK)	3.939	43	199286	54.5007546 ppb #	55
31) TETRAHYDROFURAN	3.878	42	6089	3.1234683 ppb #	1
32) CHLOROFORM	3.744	83	63555	5.2123165 ppb #	26
34) 1,1,1-TRICHLOROETHANE	3.945	97	3855	0.4033840 ppb #	22
37) 2,2,4-TRIMETHYLPENTANE	4.006	57	7193344	191.6054053 ppb	98
38) HEPTANE	4.042	43	1284128	71.9473347 ppb #	82
39) BENZENE	4.097	78	1656984	51.3150698 ppb	93
43) 1,2-DICHLOROPROPANE	4.724	62	4167	0.7390660 ppb #	1
44) DIBROMOMETHANE	4.669	93	2139	0.6506199 ppb #	1
45) BROMODICHLOROMETHANE	4.797	83	23340	2.6619810 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.040	63	2443	0.9203091 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	139822	23.5866790 ppb #	44
51) TOLUENE	5.284	91	11727087	361.2813948 ppb	95
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	4825	0.5137915 ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.642	97	41549	9.1442853 ppb #	1
57) 2-HEXANONE	6.074	58	1429	1.7945673 ppb #	1
58) CHLORODIBROMOMETHANE	5.831	129	2060	0.4617452 ppb #	20
60) CHLOROBENZENE	6.263	112	5057	0.3177235 ppb #	1
62) ETHYLBENZENE	6.281	106	916886	100.7340453 ppb	87
63) M&P-XYLENE	6.379	106	4438486	388.9899805 ppb	89
64) O-XYLENE	6.689	106	1530215	144.3985932 ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 09.D
Acq On : 12 Nov 2015 1:02 am
Operator : 189
Sample : STD GROMS 7 ppm 15K06943
Misc : water 15J30547
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:23:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

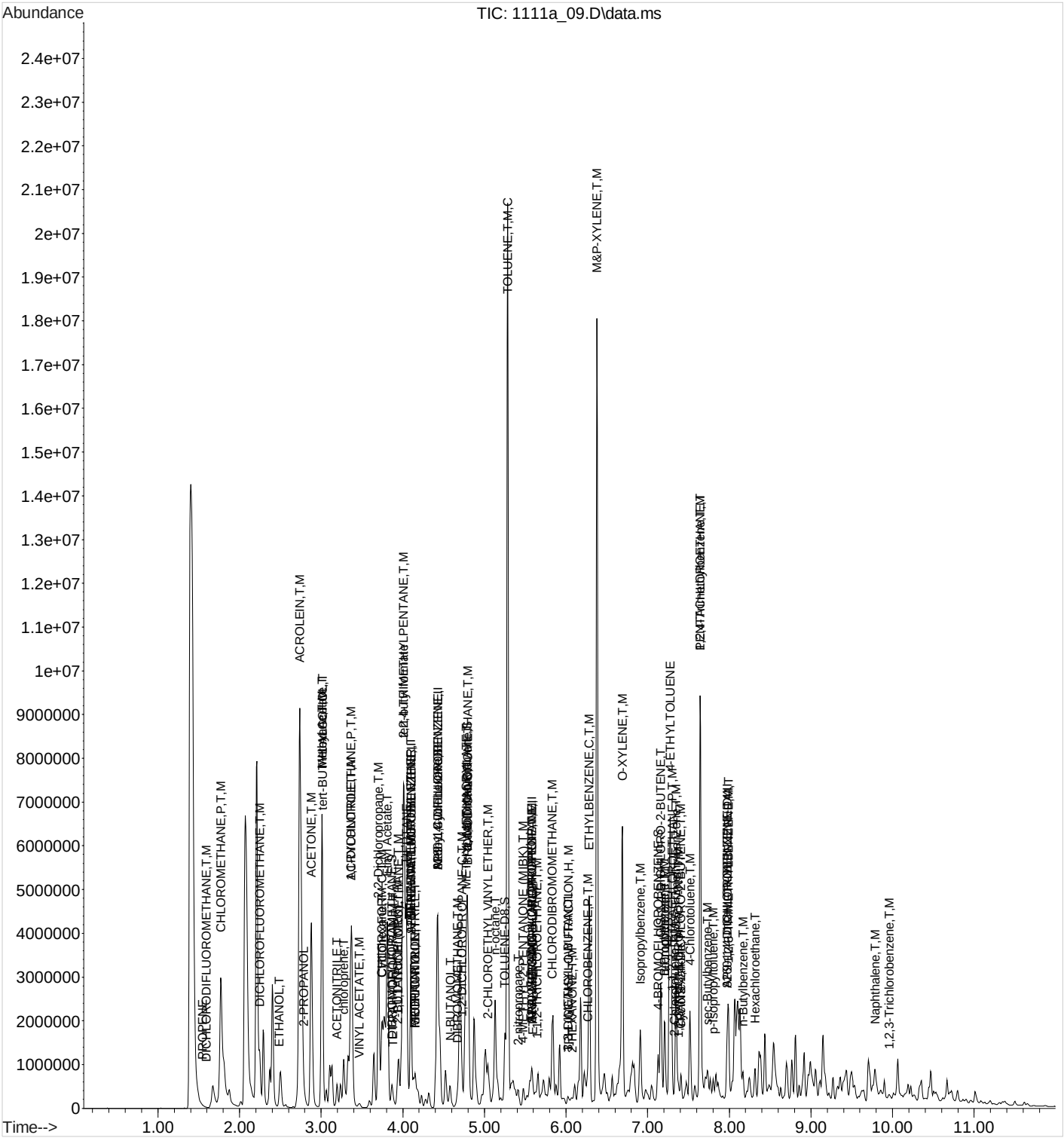
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
67)	Isopropylbenzene	6.908	105	401315	14.1587542	ppb		97
69)	Bromobenzene	7.206	77	38884	2.8888331	ppb	#	32
70)	1,1,2,2-TETRACHLOROETHANE	7.297	83	2304	0.3966915	ppb	#	26
71)	1,2,3-TRICHLOROPROPANE	7.376	110	3784	2.5194793	ppb	#	19
72)	TRANS-1,4-DICHLORO-2-B...	7.407	53	3561	3.8743029	ppb	#	26
73)	n-Propylbenzene	7.206	91	1119689	31.2086919	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	4496077	163.8090163	ppb		94
75)	2-Chlorotoluene	7.328	126	2166	0.3498862	ppb	#	1
76)	4-Chlorotoluene	7.516	91	117392	5.8147935	ppb	#	54
77)	1,3,5-Trimethylbenzene	7.346	105	1227863	51.5682953	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	4228594	186.8390409	ppb		93
80)	sec-Butylbenzene	7.729	105	155351	5.0854220	ppb	#	73
82)	p-Isopropyltoluene	7.802	119	198754	8.3991278	ppb	#	88
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	964062	37.4133271	ppb		94
88)	n-Butylbenzene	8.167	91	198886	7.9306109	ppb		95
92)	Naphthalene	9.785	128	323330	20.2835753	ppb	#	85
93)	1,2,3-Trichlorobenzene	9.956	180	3840	0.5841296	ppb	#	12
97)	ETHANOL	2.485	45	37201	459.3455449	ppb	#	91
99)	2-PROPANOL	2.783	45	1501	3.6731451	ppb	#	54
100)	Methyl Acetate	3.008	43	1588893	329.2730163	ppb	#	57
101)	ACETONITRILE	3.191	41	142029	187.0005805	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.014	59	2004	1.2004350	ppb	#	1
104)	chloroprene	3.276	53	45884	3.4342772	ppb	#	26
106)	PROPIONITRILE	4.152	54	24706	28.2259916	ppb	#	1
107)	Ethyl Acetate	3.805	43	2115352	339.1114474	ppb	#	42
108)	METHACRYLONITRILE	4.152	67	35351	13.2081630	ppb	#	1
109)	Cyclohexane	3.744	84	646093	36.5678463	ppb	#	60
110)	tert-butyl formate	4.006	59	6548	1.3824274	ppb	#	1
111)	ISOBUTANOL	4.152	43	35931	84.5711759	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	27018	1.1074040	ppb	#	90
115)	N-BUTANOL	4.584	56	26261	153.2958804	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	881908	41.5565967	ppb	#	62
117)	2-nitropropane	5.417	43	85653	53.0249901	ppb	#	65
118)	METHYL METHACRYLATE	4.779	41	773427	121.0805082	ppb	#	35
119)	1,4-DIOXANE	4.791	88	3972	66.8427894	ppb	#	1
120)	n-octane	5.131	85	373776	47.6826968	ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	64711	104.8988027	ppb	#	37
123)	ETHYL METHACRYLATE	5.594	69	54883	7.9049339	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.157	53	26592	16.8749309	ppb	#	8
125)	Cyclohexanone	7.407	55	36774	33.4422552	ppb	#	58
126)	PENTACHLOROETHANE	7.644	117	144992	42.8392637	ppb	#	13
127)	Hexachloroethane	8.313	117	5534	1.3365062	ppb	#	71

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 09.D
Acq On : 12 Nov 2015 1:02 am
Operator : 189
Sample : STD GROMS 7 ppm 15K06943
Misc : water 15J30547
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

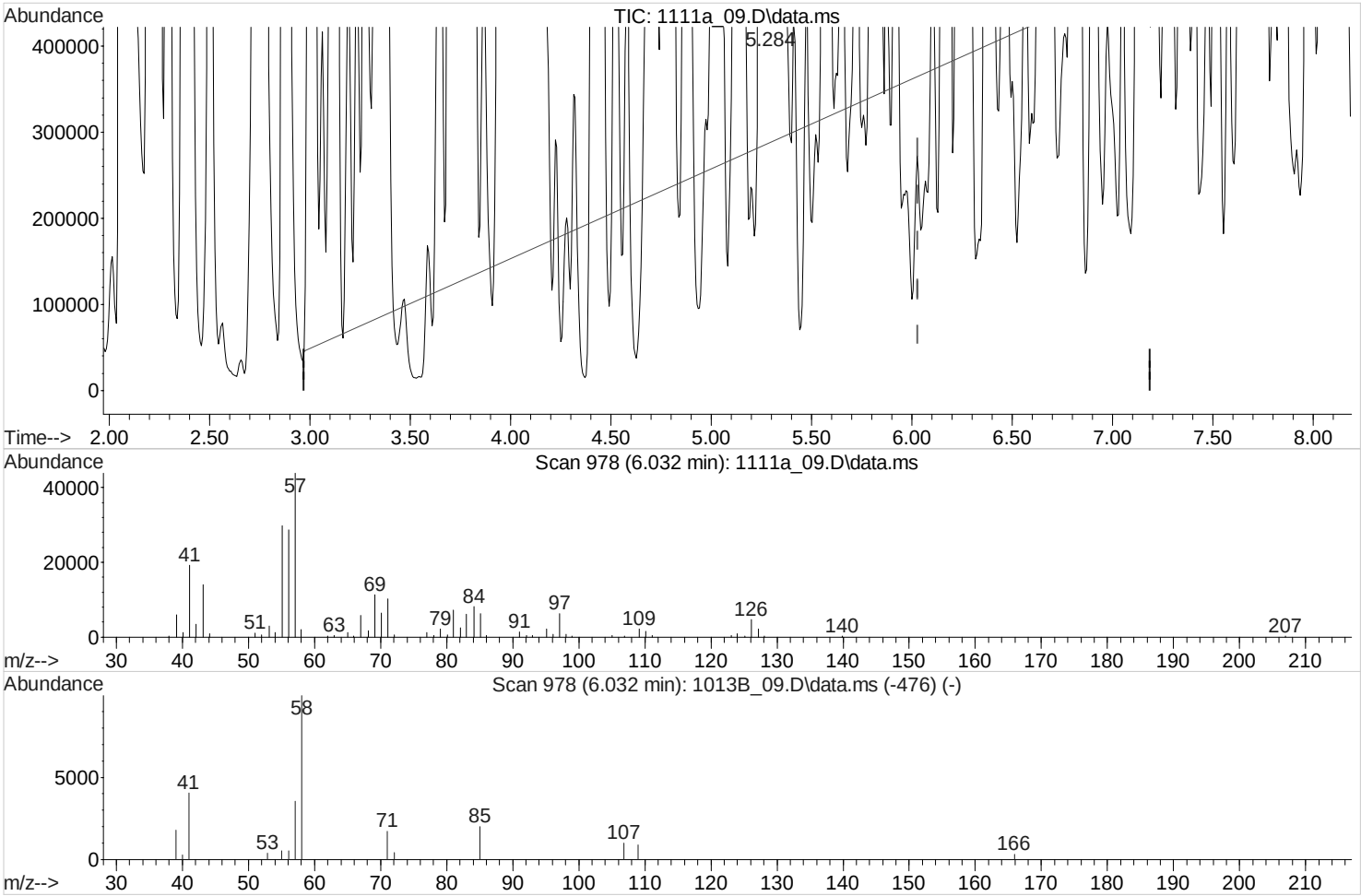
Quant Time: Nov 12 08:23:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 09.D
Acq On : 12 Nov 2015 1:02 am
Operator : 189
Sample : STD GROMS 7 ppm 15K06943
Misc : water 15J30547
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:20:57 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_09.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 2.8092118 ppm m

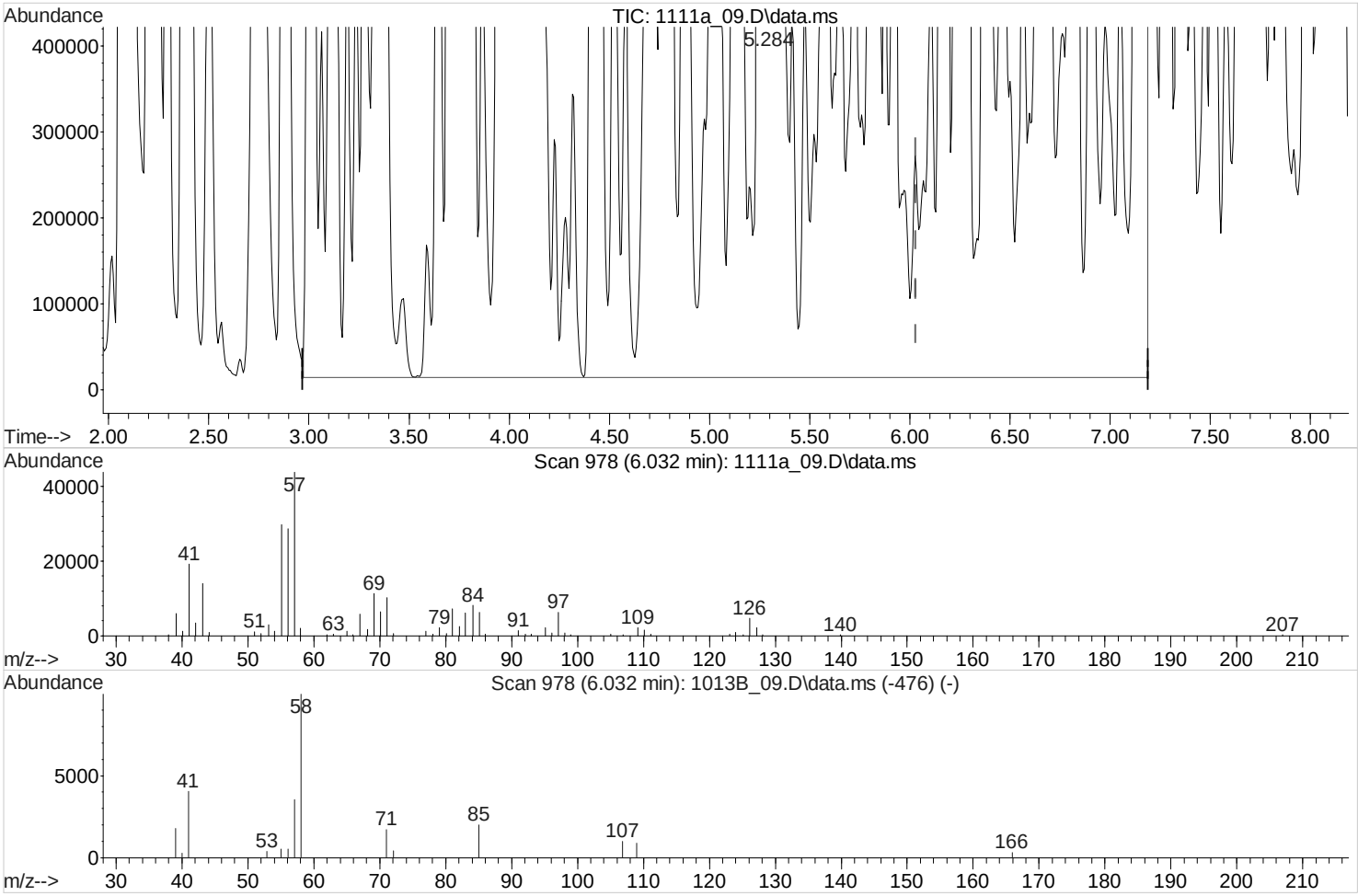
response 96901604

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	0.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 09.D
Acq On    : 12 Nov 2015   1:02 am
Operator  : 189
Sample    : STD GROMS 7 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 9   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:20:57 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```



TIC: 1111a_09.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 6.1877532 ppm m

response 216653132

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.14#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 10.D
Acq On : 12 Nov 2015 1:22 am
Operator : 189
Sample : STD GROMS 10 ppm 15K06943
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:07 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	504367	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	851834	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	118303	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	316332	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	504367	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	851834	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	118303	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	316332	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	210617	32.9622582 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 82.41%		
46) a,a,a-Trifluorotoluene	4.791	146	458589	41.8518225 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.63%		
50) TOLUENE-D8	5.247	98	975087	36.5265161 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 91.32%		
68) 4-BROMOFLUOROBENZENE	7.127	95	367756	48.8391059 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 122.10%#		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	321368234m	8.1657349 ppm	
3) PROPENE	1.542	41	7100	2.5492381 ppb #	67
4) DICHLORODIFLUOROMETHANE	1.585	85	1957	0.3236461 ppb	95
5) CHLOROMETHANE	1.767	50	83829	7.6125273 ppb #	71
11) DICHLOROFLUOROMETHANE	2.248	67	14771	0.9362851 ppb #	1
13) ACROLEIN	2.741	56	505460	474.5800764 ppb #	47
16) ACETONE	2.880	43	824393	211.7596725 ppb #	76
19) METHYLENE CHLORIDE	2.880	84	3094	0.3679397 ppb #	1
20) ACRYLONITRILE	3.367	53	151298	66.4898746 ppb #	43
21) n-Hexane	3.008	56	2132957	219.4996036 ppb #	61
24) 1,1-DICHLOROETHANE	3.373	63	20222	1.2275052 ppb #	1
25) VINYL ACETATE	3.465	43	41428	2.9570697 ppb #	90
27) 2,2-Dichloropropane	3.702	77	5520	0.5544368 ppb #	59
29) 2-BUTANONE (MEK)	3.939	43	283581	69.2024997 ppb #	55
31) TETRAHYDROFURAN	3.884	42	8590	3.9319068 ppb #	1
32) CHLOROFORM	3.750	83	91262	6.6786698 ppb #	26
34) 1,1,1-TRICHLOROETHANE	3.951	97	5525	0.5158762 ppb #	29
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	10198418	242.3977938 ppb	98
38) HEPTANE	4.042	43	1892183	94.5994166 ppb #	83
39) BENZENE	4.097	78	2485947	68.6969415 ppb	93
43) 1,2-DICHLOROPROPANE	4.718	62	6428	1.0273687 ppb #	1
44) DIBROMOMETHANE	4.669	93	3741	1.0254041 ppb #	1
45) BROMODICHLOROMETHANE	4.797	83	32182	3.3075611 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.040	63	3519	1.1945938 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	214278	32.5731393 ppb #	43
51) TOLUENE	5.277	91	14502127	402.6038275 ppb #	79
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5568	0.5342931 ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.642	97	61500	13.7061188 ppb #	1
57) 2-HEXANONE	6.068	58	2194	2.1172055 ppb #	1
58) CHLORODIBROMOMETHANE	5.837	129	3661	0.8309695 ppb #	20
60) CHLOROBENZENE	6.263	112	6025	0.3833219 ppb #	28
62) ETHYLBENZENE	6.281	106	1357701	151.0480961 ppb	88
63) M&P-XYLENE	6.379	106	6698915	594.5086974 ppb	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 10.D
Acq On : 12 Nov 2015 1:22 am
Operator : 189
Sample : STD GROMS 10 ppm 15K06943
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:07 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

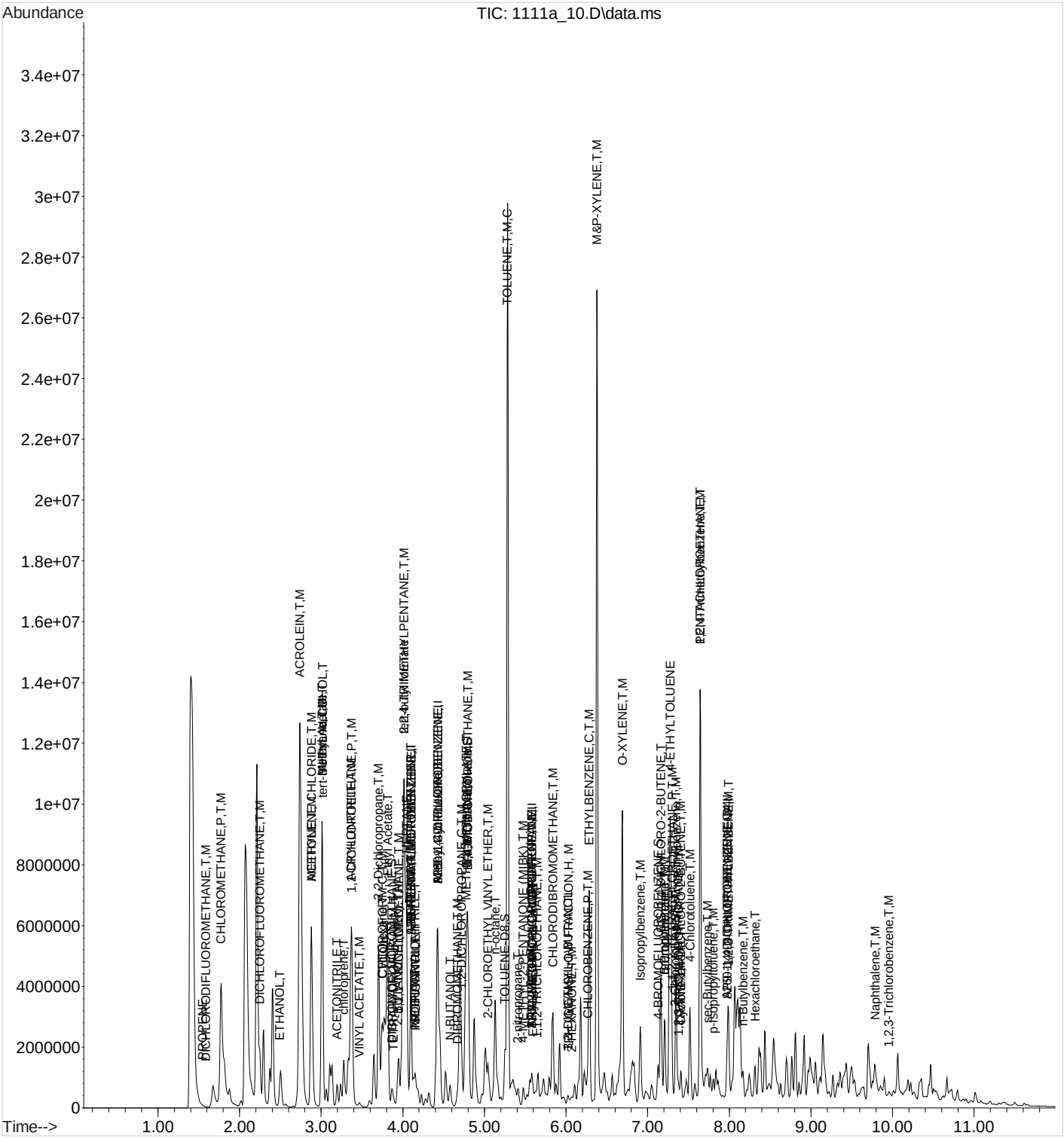
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	O-XYLENE	6.689	106	2303832	220.1463545	ppb		91
67)	Isopropylbenzene	6.908	105	586909	20.9681737	ppb		96
69)	Bromobenzene	7.206	77	56846	4.2766294	ppb	#	32
70)	1,1,2,2-TETRACHLOROETHANE	7.297	83	2262	0.3943784	ppb	#	26
71)	1,2,3-TRICHLOROPROPANE	7.376	110	5401	3.6415311	ppb	#	19
72)	TRANS-1,4-DICHLORO-2-B...	7.407	53	6002	5.4878991	ppb	#	26
73)	n-Propylbenzene	7.206	91	1643534	46.3881477	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	6611665	243.9299277	ppb		94
75)	2-Chlorotoluene	7.334	126	3438	0.5623729	ppb	#	1
76)	4-Chlorotoluene	7.516	91	174811	8.7682866	ppb	#	53
77)	1,3,5-Trimethylbenzene	7.346	105	1790920	76.1656642	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	6243366	279.3448181	ppb		93
80)	sec-Butylbenzene	7.729	105	217327	7.2040515	ppb	#	69
82)	p-Isopropyltoluene	7.802	119	292752	12.5276141	ppb	#	88
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	1419961	51.7568146	ppb		95
88)	n-Butylbenzene	8.167	91	288518	10.8055057	ppb		96
92)	Naphthalene	9.785	128	468975	27.6323585	ppb	#	84
93)	1,2,3-Trichlorobenzene	9.950	180	9715	1.3880034	ppb	#	12
97)	ETHANOL	2.491	45	59130	651.4959206	ppb	#	91
100)	Methyl Acetate	3.008	43	2255467	417.0776280	ppb	#	57
101)	ACETONITRILE	3.191	41	205615	241.5681353	ppb	#	45
103)	tert-BUTYL ALCOHOL	3.014	59	3088	1.6505822	ppb	#	1
104)	chloroprene	3.276	53	64005	4.2747124	ppb	#	26
106)	PROPIONITRILE	4.158	54	33699	34.3544272	ppb	#	21
107)	Ethyl Acetate	3.811	43	3019566	431.9398360	ppb	#	42
108)	METHACRYLONITRILE	4.152	67	51304	17.1045192	ppb	#	1
109)	Cyclohexane	3.750	84	911375	46.0278179	ppb	#	56
110)	tert-butyl formate	4.012	59	8756	1.6495228	ppb	#	1
111)	ISOBUTANOL	4.152	43	54281	114.0039325	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	40105	1.4667981	ppb	#	79
115)	N-BUTANOL	4.584	56	40895	215.1196993	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	1269490	53.9059521	ppb	#	63
117)	2-nitropropane	5.411	43	123791	69.0586102	ppb	#	59
118)	METHYL METHACRYLATE	4.779	41	1107962	156.3041529	ppb	#	34
119)	1,4-DIOXANE	4.791	88	4196	63.6314105	ppb	#	1
120)	n-octane	5.131	85	538610	61.9176629	ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	97030	141.7389454	ppb	#	36
123)	ETHYL METHACRYLATE	5.594	69	103829	15.1436044	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	39207	25.1944451	ppb	#	8
125)	Cyclohexanone	7.407	55	53521	49.2866261	ppb	#	72
126)	PENTACHLOROETHANE	7.644	117	212507	63.5801257	ppb	#	13
127)	Hexachloroethane	8.313	117	7644	1.8694019	ppb	#	50

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 10.D
Acq On : 12 Nov 2015 1:22 am
Operator : 189
Sample : STD GROMS 10 ppm 15K06943
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:07 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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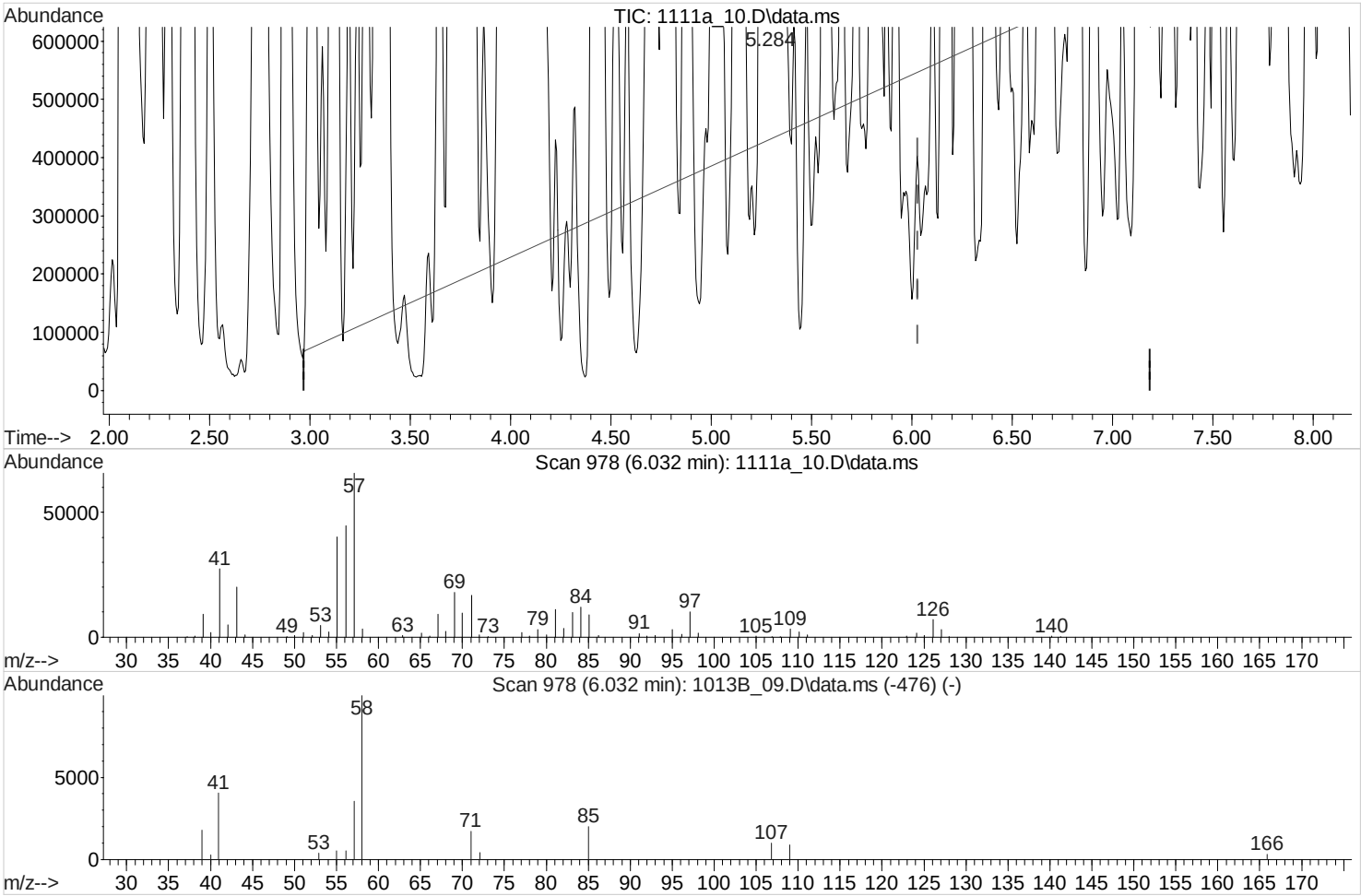
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 10.D
Acq On    : 12 Nov 2015   1:22 am
Operator  : 189
Sample    : STD GROMS 10 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 10   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:21:03 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```



TIC: 1111a_10.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 3.6964809 ppm m

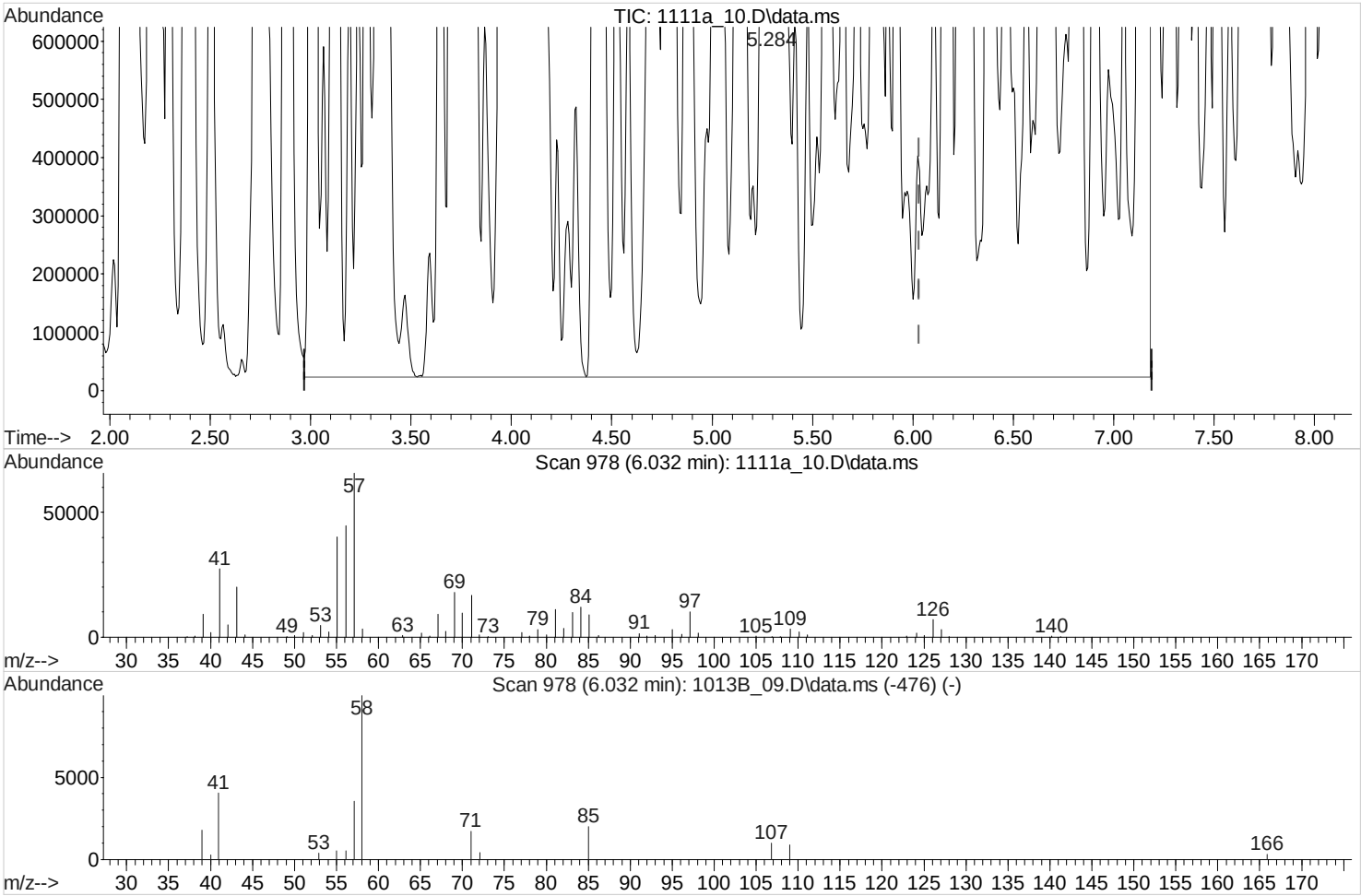
response 143839801

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.35#
0.00	0.00	0.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 10.D
Acq On    : 12 Nov 2015   1:22 am
Operator  : 189
Sample    : STD GROMS 10 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 10   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:21:03 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
```



TIC: 1111a_10.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 8.1657349 ppm m

response 321368234

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.15#
0.00	0.00	0.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 11.D
Acq On : 12 Nov 2015 1:42 am
Operator : 189
Sample : STD GROMS 20 ppm 15K06943
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	501846	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	912961	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	116975	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	323352	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	501846	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	912961	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	116975	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	323352	40.0000000 ppb	#-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	205956	32.3947162 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 80.99%		
46) a,a,a-Trifluorotoluene	4.791	146	467442	39.8034960 ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.51%		
50) TOLUENE-D8	5.247	98	992494	34.6892987 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 86.72%#		
68) 4-BROMOFLUOROBENZENE	7.127	95	360101	48.3654206 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 120.91%#		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	629574353m	16.0044007 ppm	
3) PROPENE	1.554	41	12774	4.6095142 ppb #	66
4) DICHLORODIFLUOROMETHANE	1.585	85	3979	0.6613475 ppb #	84
5) CHLOROMETHANE	1.767	50	162085	14.7929094 ppb #	68
11) DICHLOROFLUOROMETHANE	2.242	67	27434	1.7476866 ppb #	1
13) ACROLEIN	2.741	56	1001809	945.3308579 ppb #	1
16) ACETONE	2.881	43	1631262	421.1229185 ppb #	75
20) ACRYLONITRILE	3.367	53	298073	131.6500905 ppb #	42
21) n-Hexane	3.008	56	4206916	435.1025986 ppb #	61
23) METHYL TERT-BUTYL ETHER	3.020	73	8479	0.4277455 ppb #	1
24) 1,1-DICHLOROETHANE	3.367	63	38316	2.3375215 ppb #	1
25) VINYL ACETATE	3.471	43	79902	5.7319375 ppb #	92
28) CIS-1,2-DICHLOROETHENE	3.665	96	3314	0.3906669 ppb #	1
29) 2-BUTANONE (MEK)	3.939	43	563662	138.2418721 ppb #	55
31) TETRAHYDROFURAN	3.884	42	13678	6.2922917 ppb #	1
32) CHLOROFORM	3.750	83	180167	13.2510847 ppb #	26
34) 1,1,1-TRICHLOROETHANE	3.951	97	10174	0.9547312 ppb #	74
37) 2,2,4-TRIMETHYLPENTANE	4.012	57	18862181	450.5717502 ppb	99
38) HEPTANE	4.043	43	6638258	333.5459302 ppb #	76
39) BENZENE	4.097	78	4967358	137.9580967 ppb #	92
43) 1,2-DICHLOROPROPANE	4.718	62	12521	1.8672059 ppb #	1
44) DIBROMOMETHANE	4.663	93	6597	1.6871611 ppb #	1
45) BROMODICHLOROMETHANE	4.803	83	58180	5.5791920 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.040	63	6793	2.1516190 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.472	43	418648	59.3791256 ppb #	43
51) TOLUENE	5.162	91	12550	0.3250818 ppb #	45
52) TRANS-1,3-DICHLOROPROPENE	5.576	75	5084	0.4551857 ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.642	97	119233	26.8743861 ppb #	1
57) 2-HEXANONE	6.080	58	3279	2.5797286 ppb #	1
58) CHLORODIBROMOMETHANE	5.837	129	6857	1.5740634 ppb #	20
59) 1,2-DIBROMOETHANE	5.983	107	1906	0.4617053 ppb #	1
60) CHLOROBENZENE	6.263	112	12695	0.8168495 ppb #	1
62) ETHYLBENZENE	6.281	106	2723260	306.4099957 ppb	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 11.D
Acq On : 12 Nov 2015 1:42 am
Operator : 189
Sample : STD GROMS 20 ppm 15K06943
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

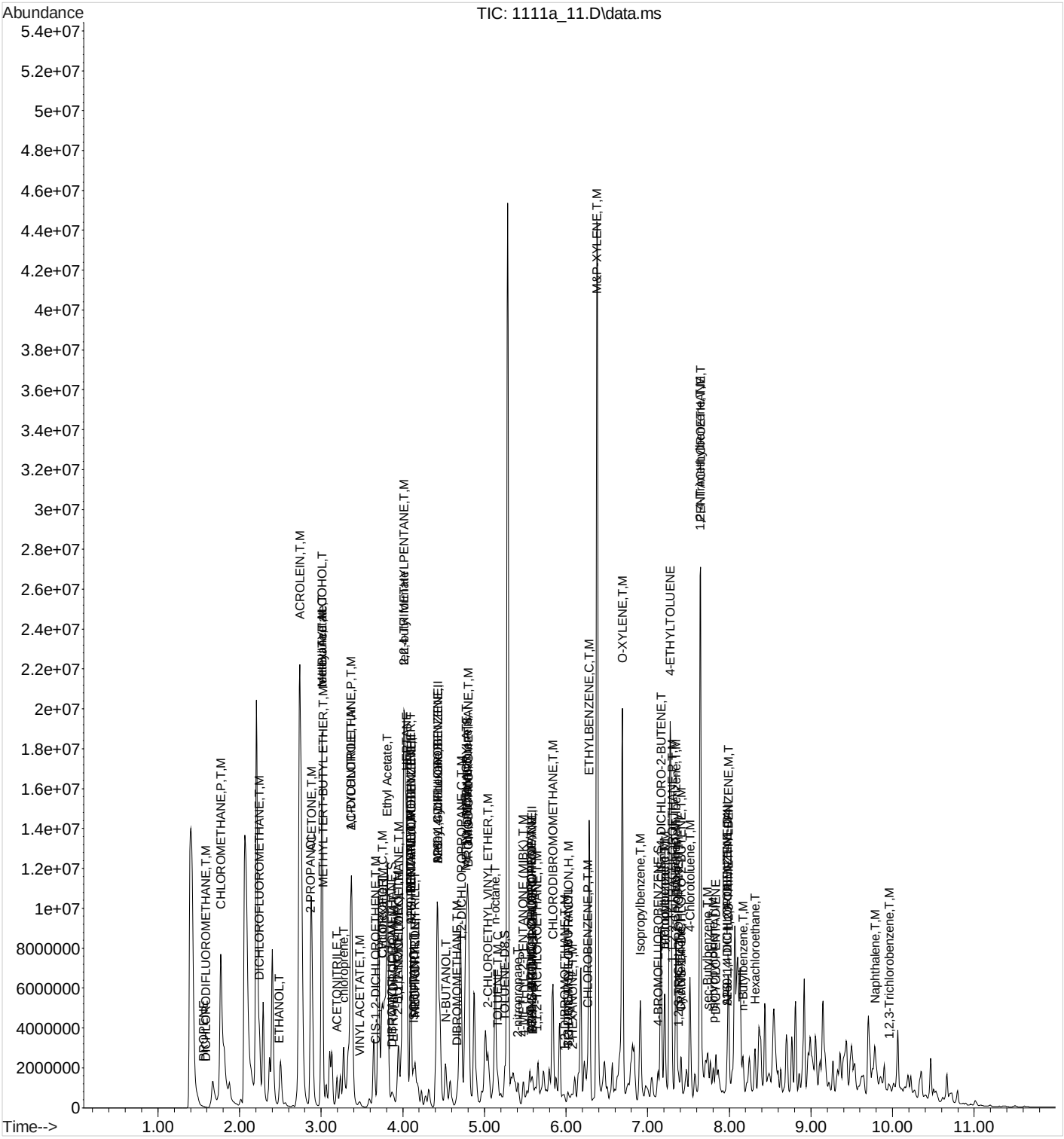
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
63)	M&P-XYLENE	6.379	106	12485231	1120.6062267	ppb	#	49
64)	O-XYLENE	6.689	106	4579595	442.5786588	ppb		89
67)	Isopropylbenzene	6.908	105	1144619	41.3574249	ppb		97
69)	Bromobenzene	7.206	77	108795	8.2777698	ppb	#	33
70)	1,1,2,2-TETRACHLOROETHANE	7.297	83	4219	0.7439312	ppb	#	1
71)	1,2,3-TRICHLOROPROPANE	7.376	110	11391	7.7673774	ppb	#	19
72)	TRANS-1,4-DICHLORO-2-B...	7.413	53	11423	9.0915555	ppb	#	26
73)	n-Propylbenzene	7.206	91	3230528	92.2156330	ppb		95
74)	4-ETHYLTOLUENE	7.273	105	13038615	486.5062370	ppb		92
75)	2-Chlorotoluene	7.340	126	6155	1.0182380	ppb	#	1
76)	4-Chlorotoluene	7.516	91	342685	17.3837624	ppb	#	54
77)	1,3,5-Trimethylbenzene	7.346	105	3557122	152.9975624	ppb		94
79)	1,2,4-Trimethylbenzene	7.644	105	11959088	541.1561397	ppb		88
80)	sec-Butylbenzene	7.729	105	433855	14.5448898	ppb	#	70
82)	p-Isopropyltoluene	7.802	119	581133	25.1505067	ppb	#	88
83)	DICYCLOPENTADIENE	7.833	66	11107	0.3423690	ppb		97
86)	1,2,3-TRIMETHYLBENZENE	7.991	105	2853746	101.7592774	ppb		95
88)	n-Butylbenzene	8.167	91	581617	21.3096762	ppb		96
92)	Naphthalene	9.785	128	941404	54.2640092	ppb	#	84
93)	1,2,3-Trichlorobenzene	9.956	180	26334	3.6807144	ppb	#	12
97)	ETHANOL	2.485	45	116957	1295.1087520	ppb	#	86
99)	2-PROPANOL	2.868	45	570	1.2509138	ppb	#	1
100)	Methyl Acetate	3.008	43	4411047	819.7818514	ppb	#	57
101)	ACETONITRILE	3.191	41	396180	467.7928691	ppb	#	47
103)	tert-BUTYL ALCOHOL	3.008	59	5516	2.9631956	ppb	#	1
104)	chloroprene	3.276	53	126481	8.4897420	ppb	#	26
106)	PROPIONITRILE	4.152	54	67635	69.2968333	ppb	#	1
107)	Ethyl Acetate	3.805	43	5976857	859.2663296	ppb	#	42
108)	METHACRYLONITRILE	4.152	67	94359	31.6168916	ppb	#	1
109)	Cyclohexane	3.750	84	2085777	105.8686428	ppb	#	55
110)	tert-butyl formate	4.012	59	16289	3.0840627	ppb	#	1
111)	ISOBUTANOL	4.134	43	24350	51.3981106	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.097	73	78749	2.8946299	ppb	#	68
115)	N-BUTANOL	4.529	56	504763	2477.4233538	ppb	#	72
116)	Methyl Cyclohexane	4.426	83	2558450	101.3647878	ppb	#	64
117)	2-nitropropane	5.411	43	246944	128.5375406	ppb	#	61
118)	METHYL METHACRYLATE	4.779	41	2190076	288.2753992	ppb	#	33
119)	1,4-DIOXANE	4.791	88	4175	59.0738526	ppb	#	1
120)	n-octane	5.131	85	1062269	113.9403097	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.026	57	190860	260.1362227	ppb	#	36
123)	ETHYL METHACRYLATE	5.594	69	163695	24.1461949	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.163	53	78506	51.0207384	ppb	#	8
125)	Cyclohexanone	7.407	55	121589	113.2405215	ppb	#	71
126)	PENTACHLOROETHANE	7.650	117	418739	126.7051470	ppb	#	13
127)	Hexachloroethane	8.313	117	15729	3.8903244	ppb	#	55

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 11.D
Acq On : 12 Nov 2015 1:42 am
Operator : 189
Sample : STD GROMS 20 ppm 15K06943
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:24:38 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

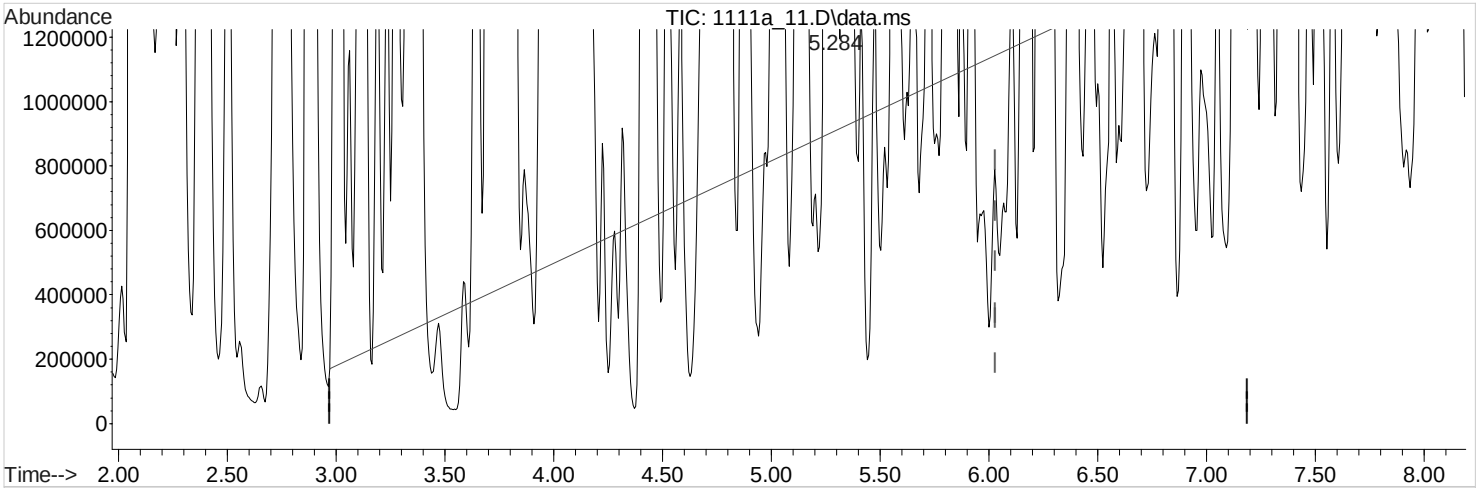


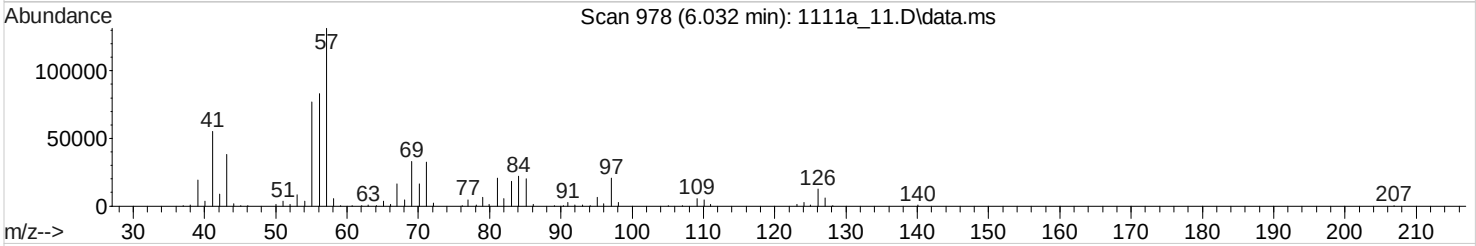
V818K11O.M Thu Nov 12 08:24:54 2015 Page: 3

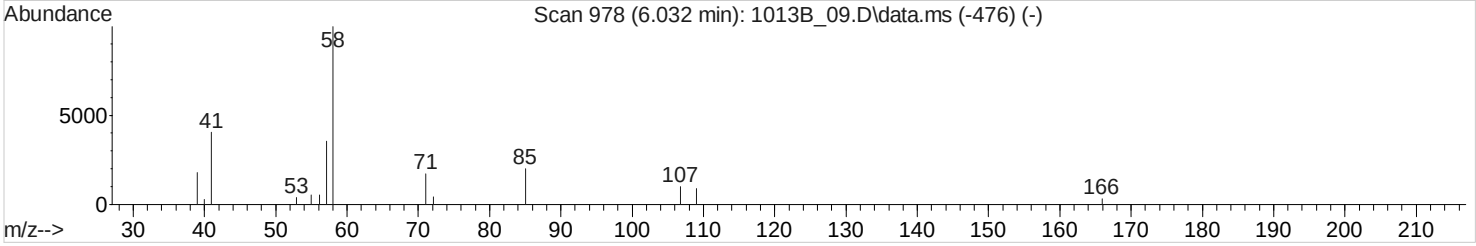
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 11.D
Acq On : 12 Nov 2015 1:42 am
Operator : 189
Sample : STD GROMS 20 ppm 15K06943
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:09 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration







TIC: 1111a_11.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 7.1774575 ppm m

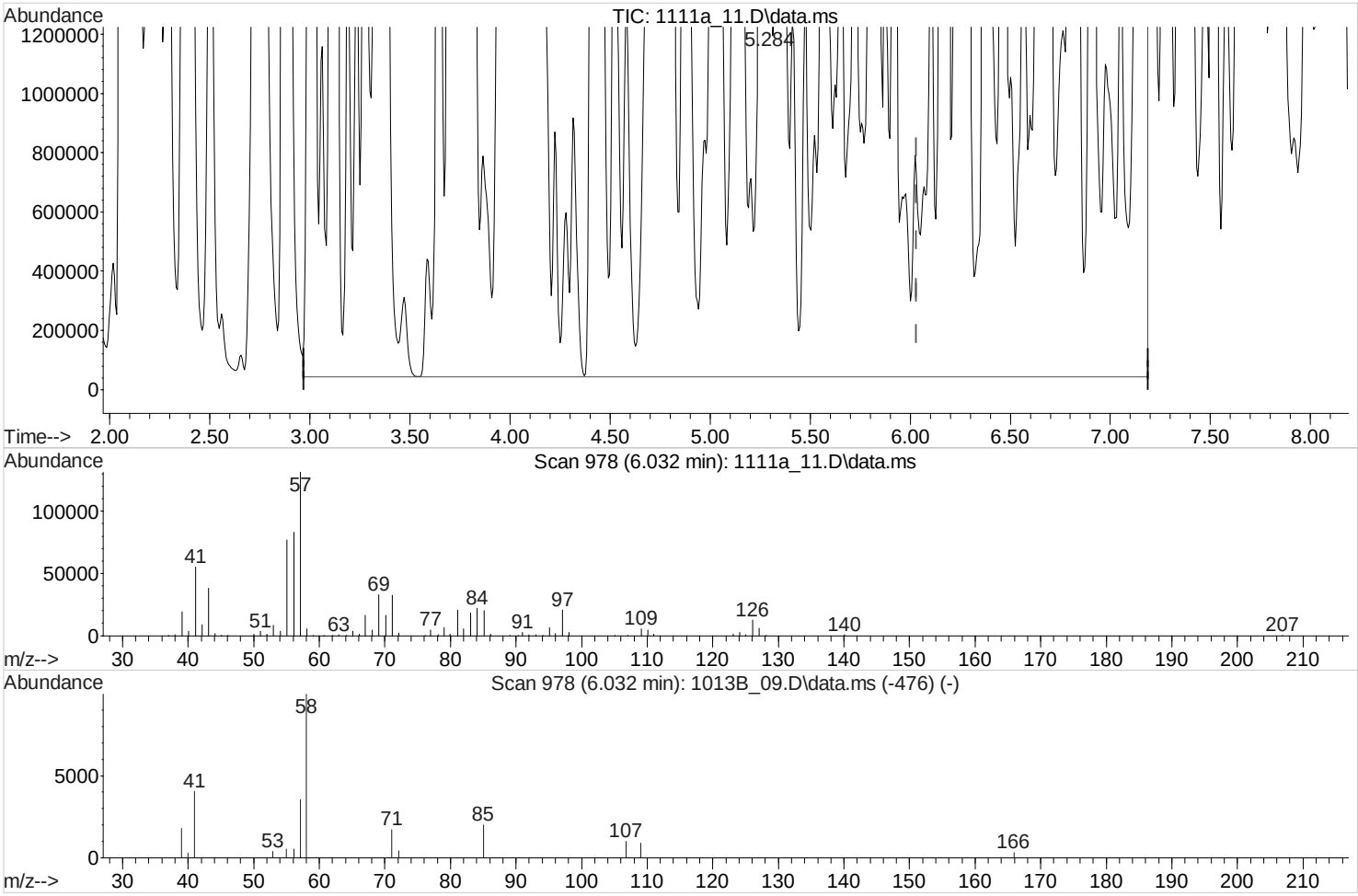
response 280701627

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 11.D
Acq On : 12 Nov 2015 1:42 am
Operator : 189
Sample : STD GROMS 20 ppm 15K06943
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:21:09 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



TIC: 1111a_11.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 16.0044007 ppm m

response 629574353

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.08#
0.00	0.00	0.05#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 03.D
Acq On : 11 Nov 2015 11:01 pm
Operator : 189
Sample : LOD GROMS .2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:31 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	536888	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	867113	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	129960	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	336984	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	536888	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	867113	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	129960	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	336984	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	234784	34.5187450	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 86.30%			
46) a,a,a-Trifluorotoluene	4.797	146	485101	43.4912795	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.73%			
50) TOLUENE-D8	5.253	98	1065089	39.1949448	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.99%			
68) 4-BROMOFLUOROBENZENE	7.127	95	336191	40.6424683	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.61%			
Target Compounds						Qvalue
13) ACROLEIN	2.741	56	11391	10.0472574	ppb #	1
16) ACETONE	2.880	43	19288	4.6543509	ppb #	73
20) ACRYLONITRILE	3.373	53	3757	1.5510525	ppb #	40
21) n-Hexane	3.014	56	43698	4.2245083	ppb #	63
29) 2-BUTANONE (MEK)	3.933	43	6393	1.4655894	ppb #	48
31) TETRAHYDROFURAN	3.811	42	5133	2.2072132	ppb #	1
37) 2,2,4-TRIMETHYLPENTANE	4.000	57	211912	4.7316692	ppb	99
38) HEPTANE	4.042	43	33698	1.5826774	ppb #	78
39) BENZENE	4.097	78	53436	1.3872107	ppb #	91
43) 1,2-DICHLOROPROPANE	4.791	62	7279	1.1428821	ppb #	3
49) 4-METHYL-2-PENTANONE (...	5.478	43	4150	0.6197398	ppb #	36
51) TOLUENE	5.283	91	377522	10.2959810	ppb	98
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5910	0.5571179	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.636	97	1618	0.3282494	ppb #	1
57) 2-HEXANONE	6.184	58	554	1.4208023	ppb #	1
62) ETHYLBENZENE	6.287	106	25881	2.6210676	ppb	90
63) M&P-XYLENE	6.385	106	126111	10.1880899	ppb	89
64) O-XYLENE	6.689	106	43620	3.7943065	ppb	98
67) Isopropylbenzene	6.908	105	11410	0.3710749	ppb #	94
72) TRANS-1,4-DICHLORO-2-B...	7.516	53	657	1.9795187	ppb #	26
73) n-Propylbenzene	7.212	91	32490	0.8347648	ppb	96
74) 4-ETHYLTOLUENE	7.279	105	126647	4.2533900	ppb	96
77) 1,3,5-Trimethylbenzene	7.352	105	37955	1.4693934	ppb	98
78) tert-Butylbenzene	7.650	119	14997	0.7466936	ppb #	76
79) 1,2,4-Trimethylbenzene	7.650	105	120876	4.9232055	ppb	92
82) p-Isopropyltoluene	7.802	119	8339	0.3248393	ppb #	89
86) 1,2,3-TRIMETHYLBENZENE	7.991	105	31063	1.0628412	ppb	94
92) Naphthalene	9.804	128	9945	0.5500560	ppb #	73
97) ETHANOL	2.491	45	1474	15.2568288	ppb #	17
100) Methyl Acetate	3.014	43	46916	8.1501267	ppb #	56
101) ACETONITRILE	3.191	41	4179	4.6123281	ppb #	35
106) PROPIONITRILE	4.158	54	676	0.6474040	ppb #	21
107) Ethyl Acetate	3.811	43	44906	6.0345664	ppb #	22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 03.D
Acq On : 11 Nov 2015 11:01 pm
Operator : 189
Sample : LOD GROMS .2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:31 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

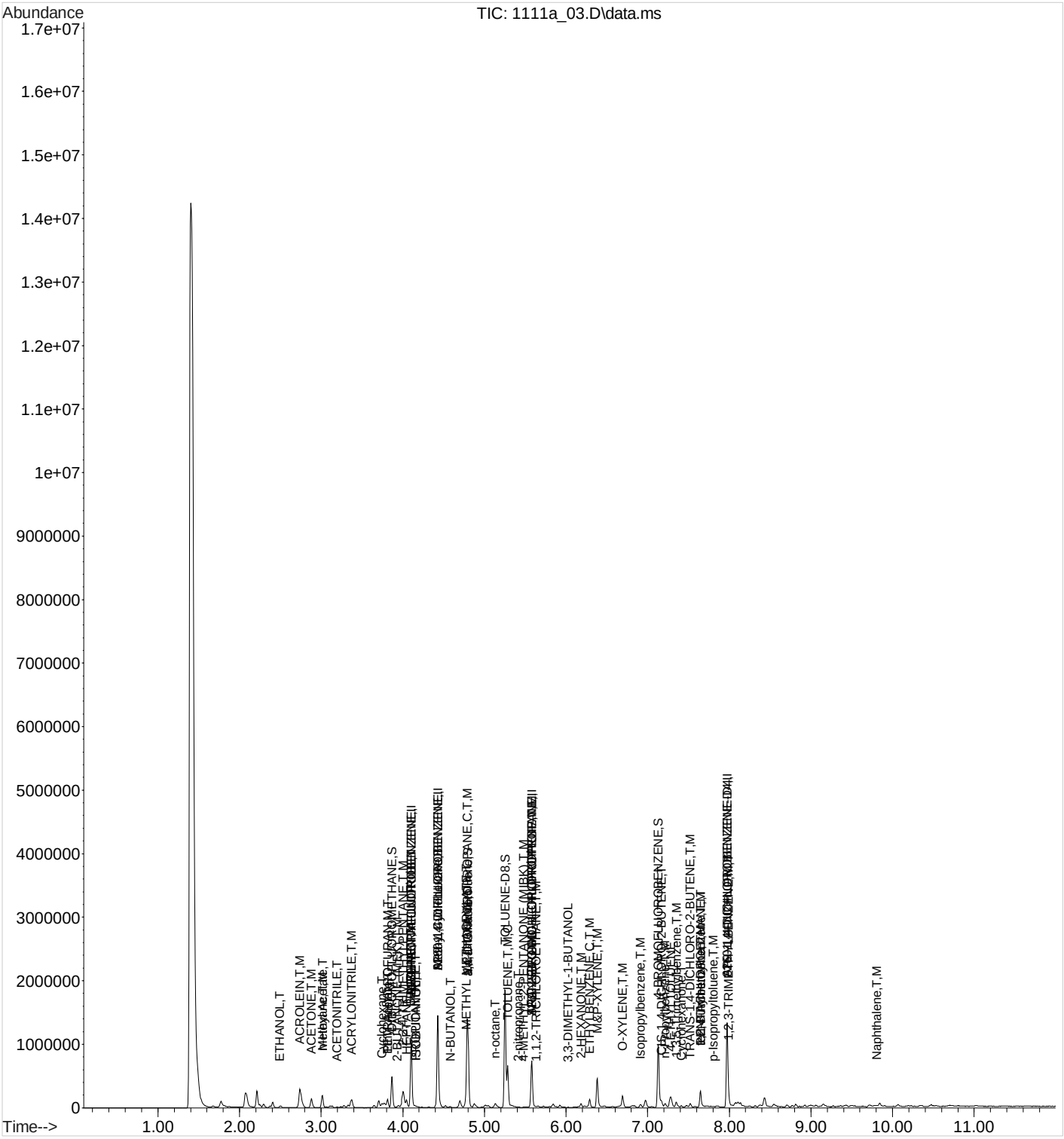
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) METHACRYLONITRILE	4.103	67	1468	0.4597785 ppb #	1
109) Cyclohexane	3.744	84	20304	0.9633139 ppb #	35
111) ISOBUTANOL	4.164	43	1042	2.0559033 ppb #	28
115) N-BUTANOL	4.584	56	883	4.5629945 ppb #	1
116) Methyl Cyclohexane	4.426	83	34491	1.4387737 ppb #	82
117) 2-nitropropane	5.417	43	3324	1.8216673 ppb #	49
118) METHYL METHACRYLATE	4.779	41	24780	3.4342051 ppb #	55
119) 1,4-DIOXANE	4.797	88	4566	68.0222904 ppb #	1
120) n-octane	5.131	85	9920	1.1202916 ppb	91
121) 3,3-DIMETHYL-1-BUTANOL	6.026	57	2100	3.0135731 ppb #	39
124) CIS-1,4-DICHLORO-2-BUTENE	7.169	53	1859	1.0874433 ppb #	8
125) Cyclohexanone	7.413	55	1567	1.3135903 ppb #	76
126) PENTACHLOROETHANE	7.650	117	4386	1.1945459 ppb #	13

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 03.D
Acq On : 11 Nov 2015 11:01 pm
Operator : 189
Sample : LOD GROMS .2 ppm 15K06943
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:31 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 03.D
Acq On    : 11 Nov 2015  11:01 pm
Operator  : 189
Sample    : LOD GROMS .2 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:27:22 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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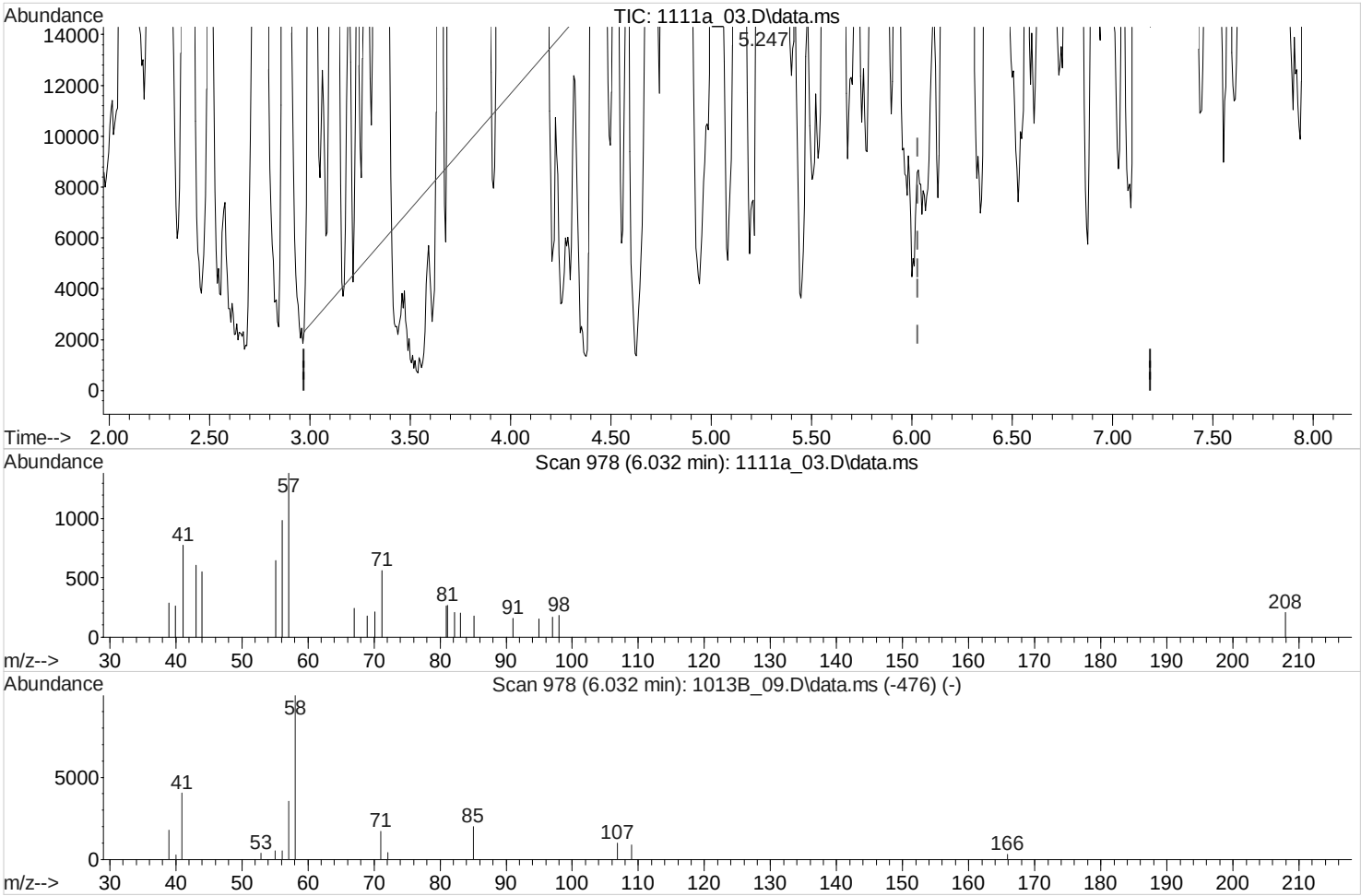

TIC: 1111a_03.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) -0.0775273 ppm m

response -2755633

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-19.15#
0.00	0.00	-7.00#
0.00	0.00	-0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 03.D
Acq On    : 11 Nov 2015  11:01 pm
Operator  : 189
Sample    : LOD GROMS .2 ppm 15K06943
Misc      : water 15J30547
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: Nov 12 08:27:22 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration
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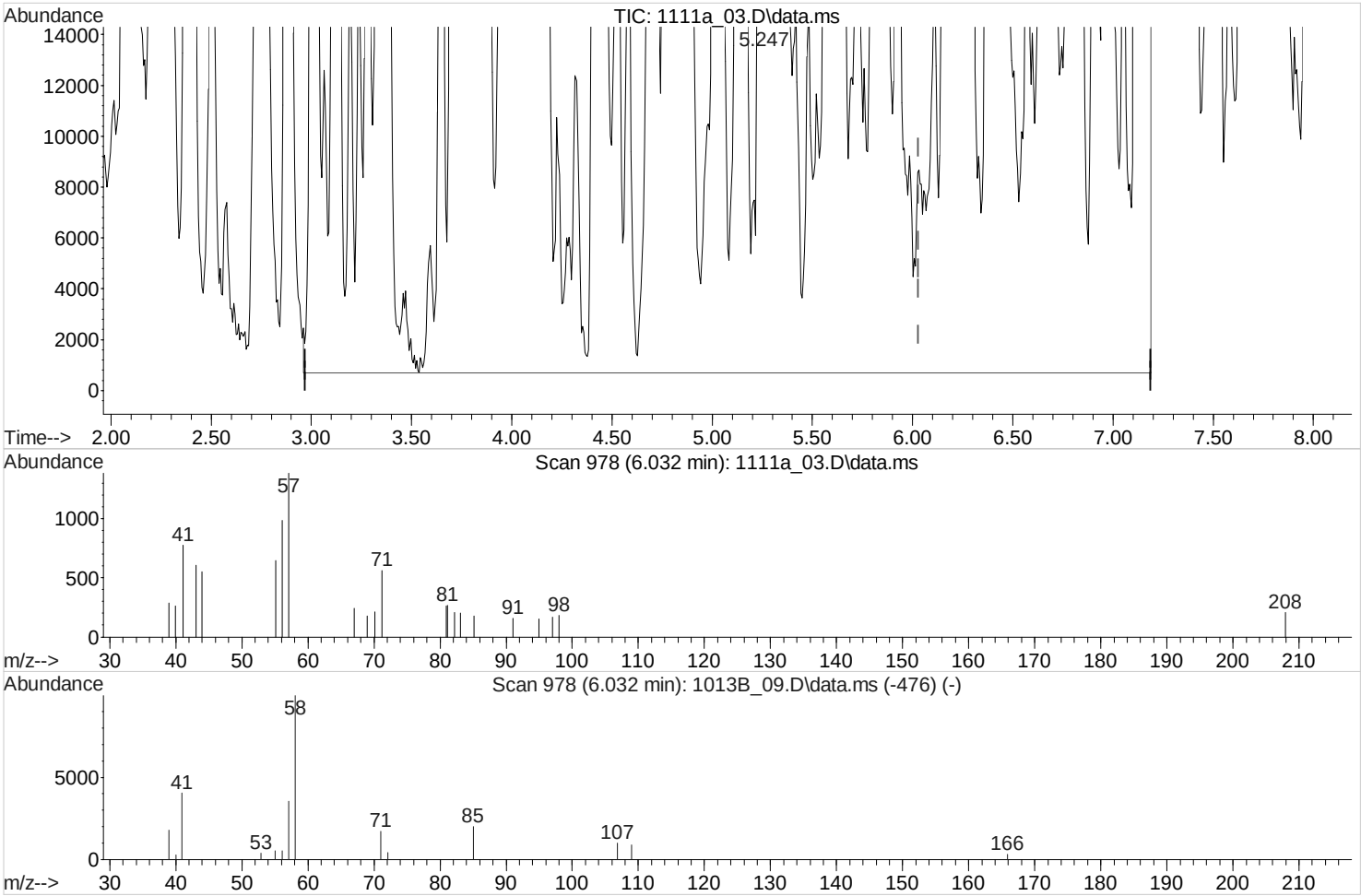


TIC: 1111a_03.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0816275 ppm m

response 2901373

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	18.19#
0.00	0.00	6.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:54 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

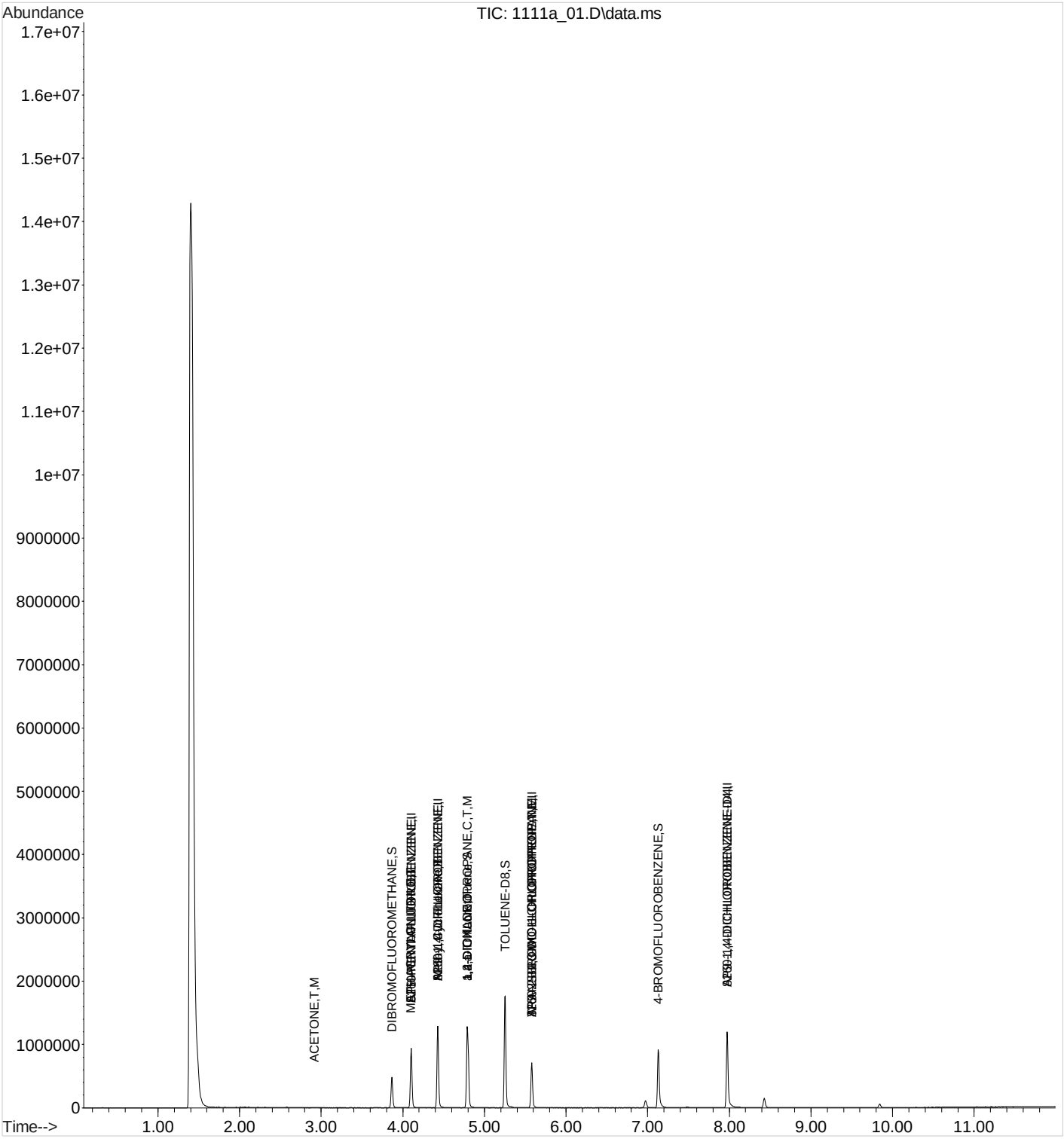
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.103	168	514558	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	835190	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	129096	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	332570	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	514558	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	835190	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	129096	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	332570	40.0000000	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.866	111	231574	35.5243108	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 88.81%				
46) a,a,a-Trifluorotoluene	4.791	146	474938	44.2076415	ppb		-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.52%				
50) TOLUENE-D8	5.253	98	1038413	39.6738810	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.18%				
68) 4-BROMOFLUOROBENZENE	7.127	95	325850	39.6559752	ppb		-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.14%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4103581m		Below Cal			
16) ACETONE	2.917	43	2268	0.5710371	ppb		95
43) 1,2-DICHLOROPROPANE	4.791	62	6944	1.1319568	ppb	#	17
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	6233	0.6100243	ppb	#	1
108) METHACRYLONITRILE	4.097	67	1272	0.4156800	ppb	#	1
116) Methyl Cyclohexane	4.426	83	9308	0.4031192	ppb	#	32
119) 1,4-DIOXANE	4.791	88	4542	70.2510606	ppb	#	19

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:54 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:54 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

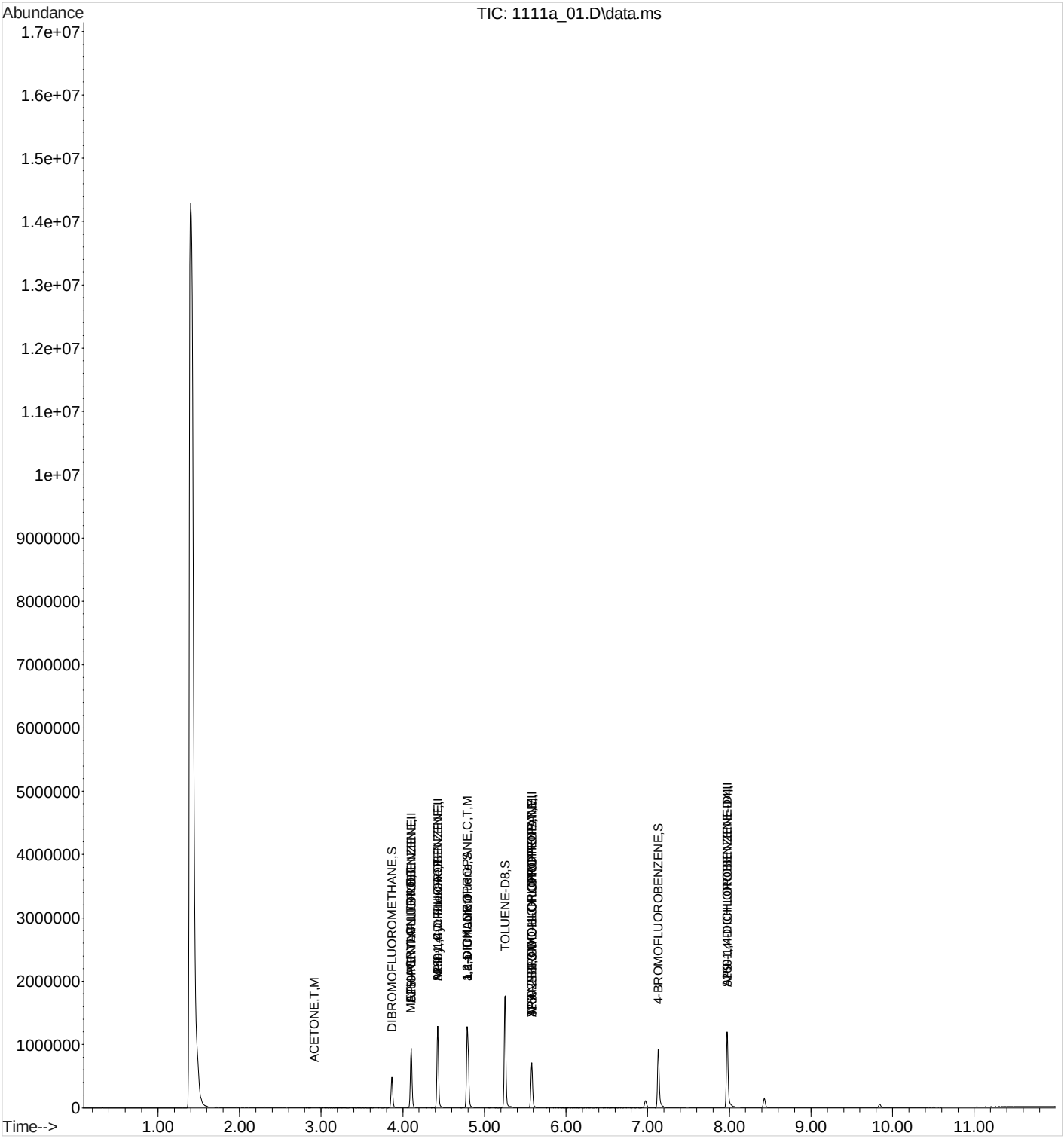
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.103	168	514558	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.426	114	835190	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.582	79	129096	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	7.973	152	332570	40.0000000	ppb	#	0.00
96)	AP9-PENTAFLUOROBENZENE	4.103	168	514558	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.426	114	835190	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.582	79	129096	40.0000000	ppb		0.00
128)	AP9-1,4-DICHLOROBENZEN...	7.973	152	332570	40.0000000	ppb		-0.01
	System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	3.866	111	231574	35.5243108	ppb		0.00
	Spiked Amount 40.000	Range 79 - 121		Recovery = 88.81%				
46)	a,a,a-Trifluorotoluene	4.791	146	474938	44.2076415	ppb		-0.01
	Spiked Amount 40.000	Range 90 - 116		Recovery = 110.52%				
50)	TOLUENE-D8	5.253	98	1038413	39.6738810	ppb		0.00
	Spiked Amount 40.000	Range 90 - 115		Recovery = 99.18%				
68)	4-BROMOFLUOROBENZENE	7.127	95	325850	39.6559752	ppb		-0.01
	Spiked Amount 40.000	Range 80 - 120		Recovery = 99.14%				
	Target Compounds							Qvalue
2)	TPH (GC/MS) LOW FRACTION	6.030	TIC -4103581m		Below Cal			
16)	ACETONE	2.917	43	2268	0.5710371	ppb		95
43)	1,2-DICHLOROPROPANE	4.791	62	6944	1.1319568	ppb	#	17
52)	TRANS-1,3-DICHLOROPROPENE	5.582	75	6233	0.6100243	ppb	#	1
108)	METHACRYLONITRILE	4.097	67	1272	0.4156800	ppb	#	1
116)	Methyl Cyclohexane	4.426	83	9308	0.4031192	ppb	#	32
119)	1,4-DIOXANE	4.791	88	4542	70.2510606	ppb	#	19

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 01.D
Acq On : 11 Nov 2015 10:20 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:26:54 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 02.D
Acq On : 11 Nov 2015 10:41 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:13 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

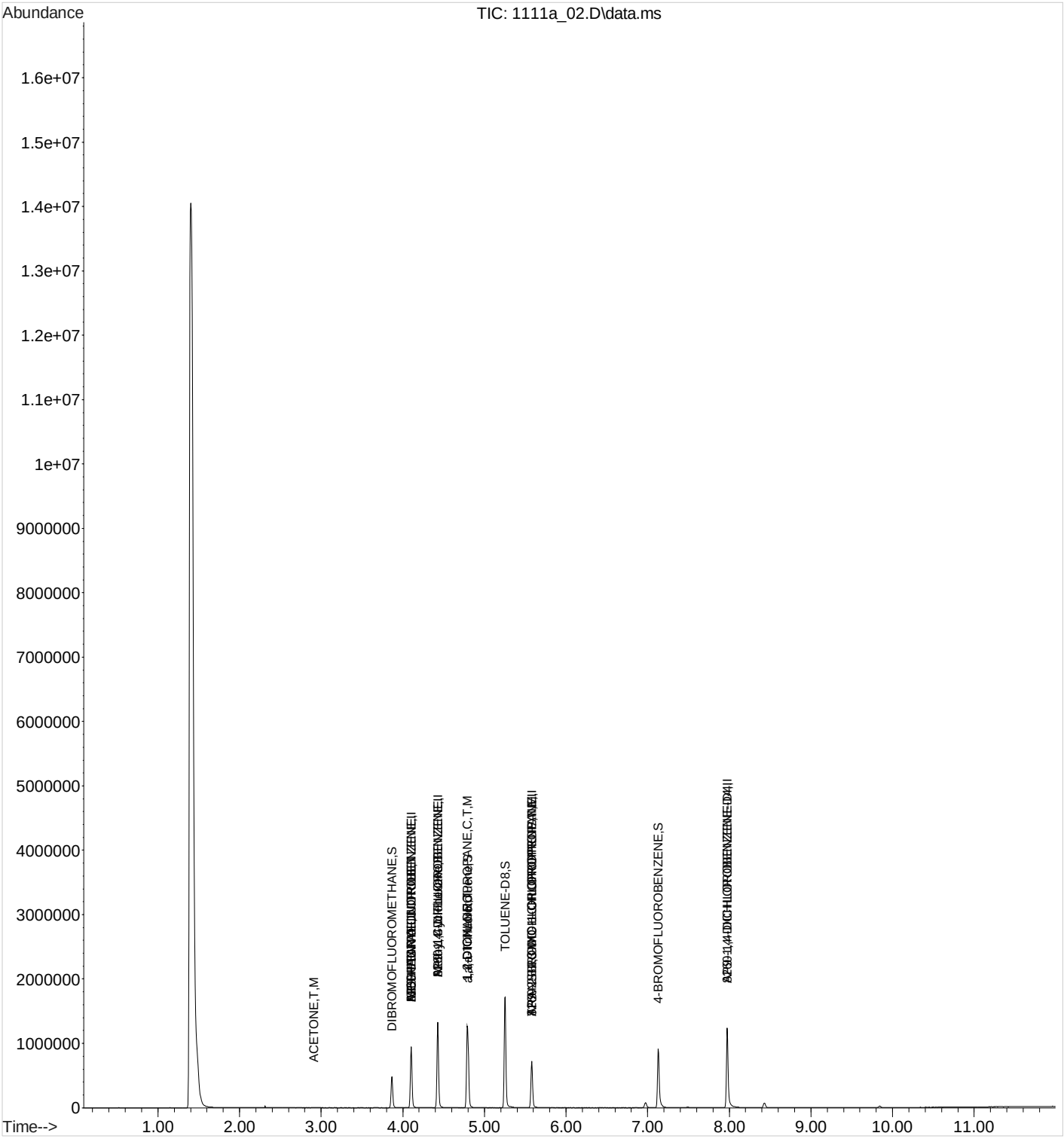
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.103	168	515823	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	848104	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	130035	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	330502	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	515823	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	848104	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	130035	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	330502	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.866	111	232812	35.6266393	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 89.07%			
46) a,a,a-Trifluorotoluene	4.797	146	474415	43.4865559	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.72%			
50) TOLUENE-D8	5.253	98	1039528	39.1117218	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.78%			
68) 4-BROMOFLUOROBENZENE	7.127	95	325329	39.3066663	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.27%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4114722m	Below Cal			
16) ACETONE	2.911	43	1936	0.4862507	ppb	94
43) 1,2-DICHLOROPROPANE	4.791	62	7389	1.1861564	ppb #	32
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5870	0.5657497	ppb #	1
108) METHACRYLONITRILE	4.103	67	1192	0.3885813	ppb #	1
111) ISOBUTANOL	4.103	43	545	1.1192174	ppb #	1
116) Methyl Cyclohexane	4.426	83	9974	0.4253855	ppb #	30
119) 1,4-DIOXANE	4.791	88	4679	71.2680662	ppb #	28

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 02.D
Acq On : 11 Nov 2015 10:41 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:13 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 02.D
Acq On : 11 Nov 2015 10:41 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:13 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

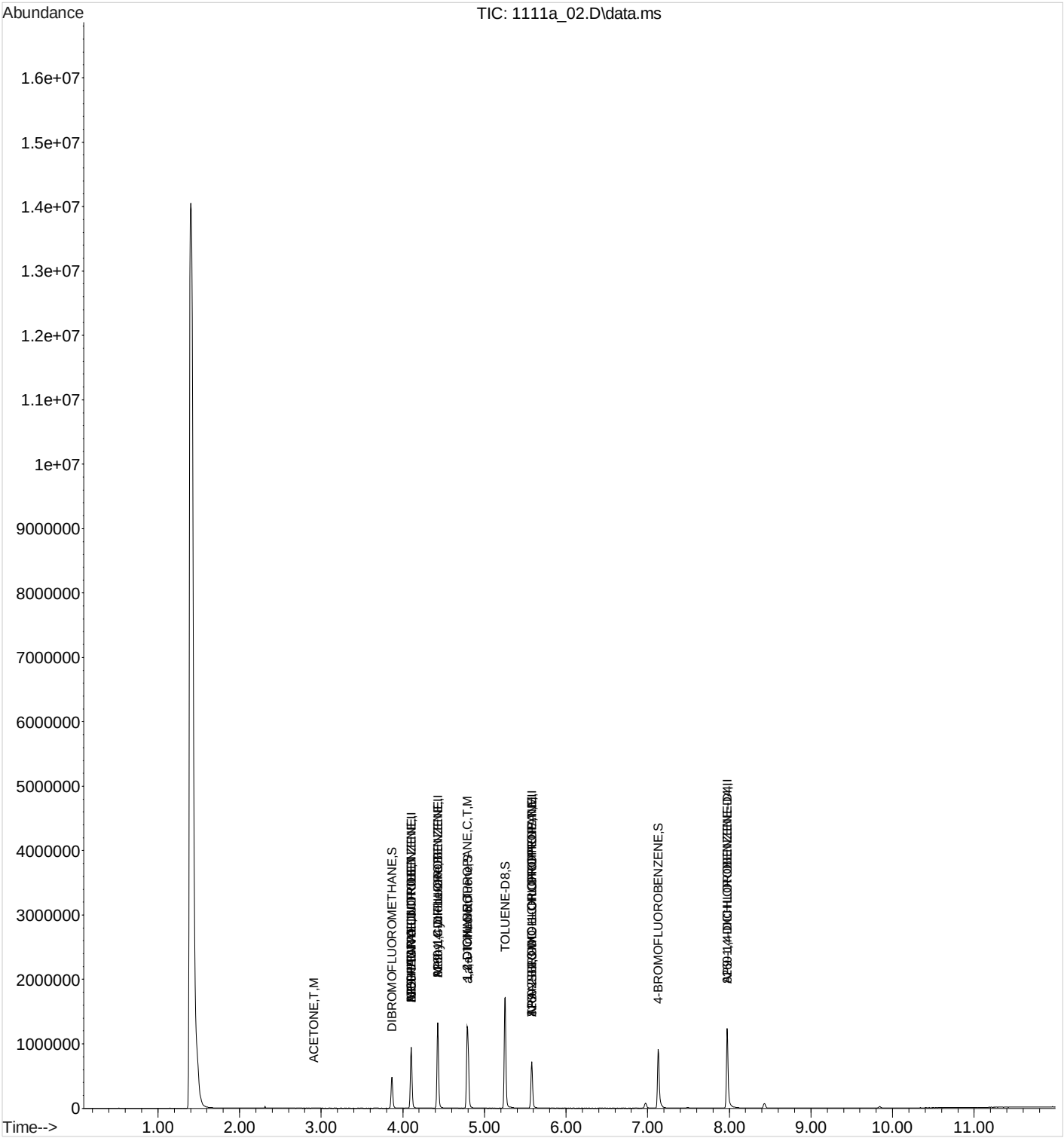
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	515823	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	848104	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	130035	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.973	152	330502	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	515823	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	848104	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	130035	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.973	152	330502	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	232812	35.6266393 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 89.07%		
46) a,a,a-Trifluorotoluene	4.797	146	474415	43.4865559 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.72%		
50) TOLUENE-D8	5.253	98	1039528	39.1117218 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.78%		
68) 4-BROMOFLUOROBENZENE	7.127	95	325329	39.3066663 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.27%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -4114722m	Below Cal		
16) ACETONE	2.911	43	1936	0.4862507 ppb	94
43) 1,2-DICHLOROPROPANE	4.791	62	7389	1.1861564 ppb #	32
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5870	0.5657497 ppb #	1
108) METHACRYLONITRILE	4.103	67	1192	0.3885813 ppb #	1
111) ISOBUTANOL	4.103	43	545	1.1192174 ppb #	1
116) Methyl Cyclohexane	4.426	83	9974	0.4253855 ppb #	30
119) 1,4-DIOXANE	4.791	88	4679	71.2680662 ppb #	28

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 02.D
Acq On : 11 Nov 2015 10:41 pm
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:13 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 12.D
Acq On : 12 Nov 2015 2:03 am
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:42 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

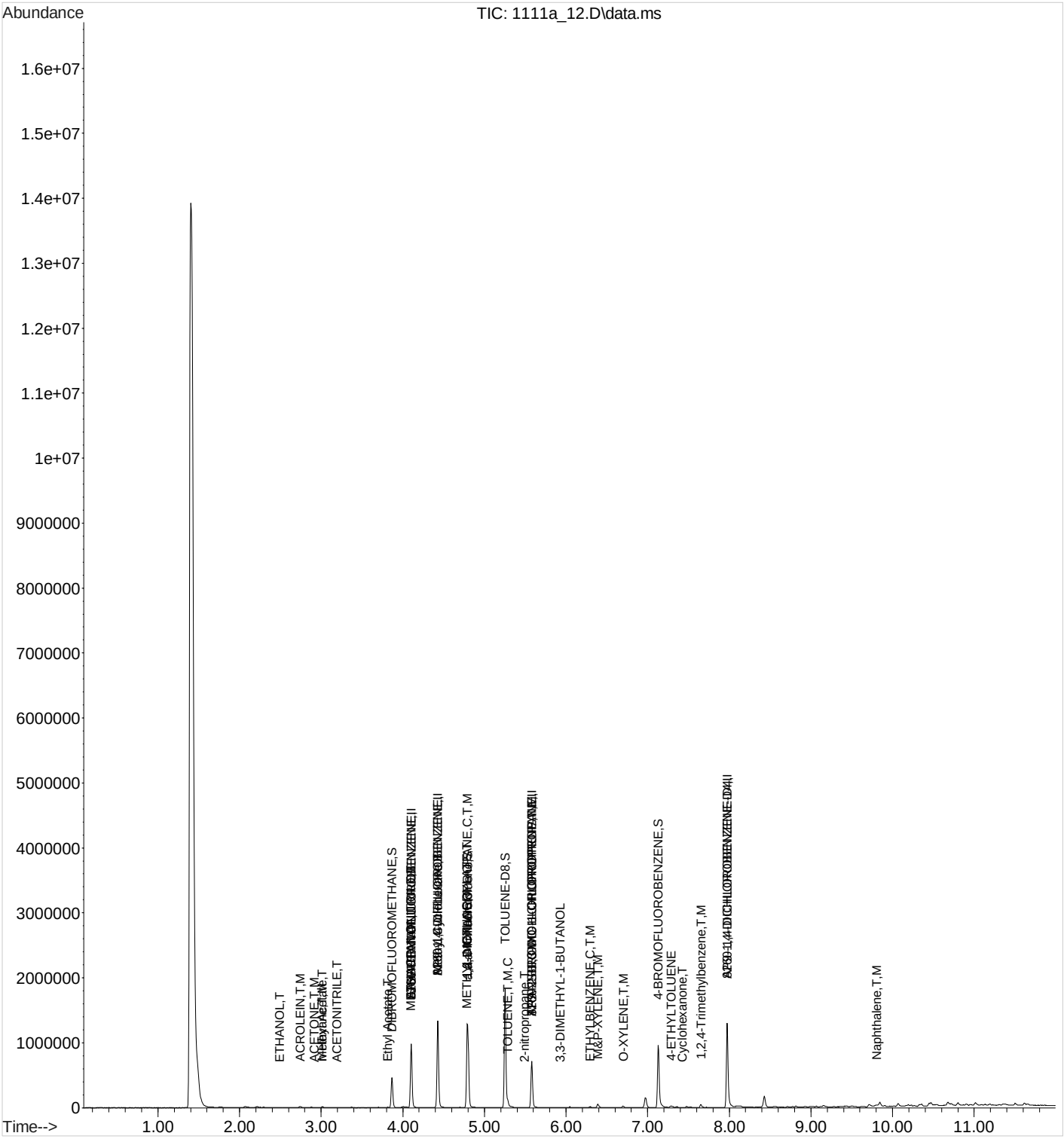
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	541564	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	859969	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	126176	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	332121	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	541564	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	859969	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	126176	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	332121	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	224612	32.7380920 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 81.85%		
46) a,a,a-Trifluorotoluene	4.797	146	489907	44.2870305 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.72%		
50) TOLUENE-D8	5.253	98	1043836	38.7319471 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 96.83%		
68) 4-BROMOFLUOROBENZENE	7.127	95	332166	41.3601511 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.40%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -3910453m		Below Cal	
13) ACROLEIN	2.747	56	714	0.6243352 ppb #	1
16) ACETONE	2.917	43	1752	0.4191215 ppb	100
21) n-Hexane	3.008	56	3653	0.3501049 ppb #	72
43) 1,2-DICHLOROPROPANE	4.791	62	7303	1.1561759 ppb #	31
51) TOLUENE	5.283	91	51866	1.4262680 ppb	97
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5955	0.5660233 ppb #	1
62) ETHYLBENZENE	6.293	106	3361	0.3505893 ppb	94
63) M&P-XYLENE	6.391	106	18300	1.5227333 ppb	96
64) O-XYLENE	6.701	106	7412	0.6640719 ppb	82
74) 4-ETHYLTOLUENE	7.285	105	21091	0.7295758 ppb	93
79) 1,2,4-Trimethylbenzene	7.656	105	26025	1.0917710 ppb	96
92) Naphthalene	9.804	128	18559	1.0415248 ppb #	84
97) ETHANOL	2.491	45	564	5.7873507 ppb #	18
100) Methyl Acetate	3.008	43	4494	0.7739455 ppb #	56
101) ACETONITRILE	3.191	41	525	0.5744352 ppb #	36
107) Ethyl Acetate	3.811	43	2798	0.3727549 ppb #	21
108) METHACRYLONITRILE	4.097	67	1168	0.3626598 ppb #	15
111) ISOBUTANOL	4.103	43	570	1.1149200 ppb #	1
116) Methyl Cyclohexane	4.426	83	11214	0.4716721 ppb #	50
117) 2-nitropropane	5.490	43	685	0.3785223 ppb #	17
118) METHYL METHACRYLATE	4.785	41	2266	0.3166487 ppb #	1
119) 1,4-DIOXANE	4.791	88	4473	67.1903871 ppb #	1
121) 3,3-DIMETHYL-1-BUTANOL	5.928	57	2614	3.7823431 ppb #	45
125) Cyclohexanone	7.425	55	850	0.7339100 ppb #	23

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 12.D
Acq On : 12 Nov 2015 2:03 am
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:42 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 12.D
Acq On : 12 Nov 2015 2:03 am
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:42 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration

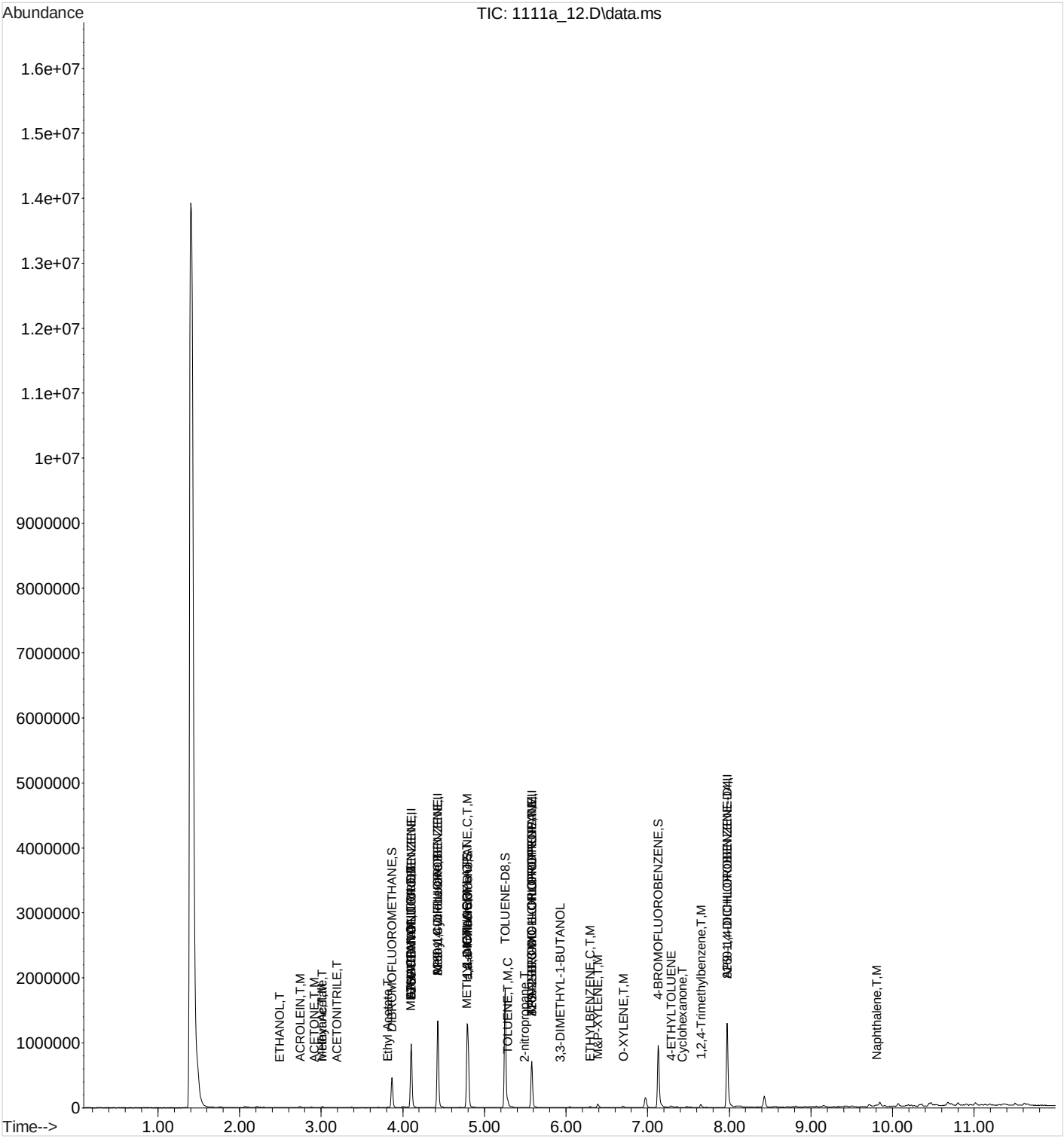
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.103	168	541564	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.426	114	859969	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.582	79	126176	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.972	152	332121	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.103	168	541564	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.426	114	859969	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.582	79	126176	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.972	152	332121	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.866	111	224612	32.7380920 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 81.85%		
46) a,a,a-Trifluorotoluene	4.797	146	489907	44.2870305 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.72%		
50) TOLUENE-D8	5.253	98	1043836	38.7319471 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 96.83%		
68) 4-BROMOFLUOROBENZENE	7.127	95	332166	41.3601511 ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.40%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC -3910453m		Below Cal	
13) ACROLEIN	2.747	56	714	0.6243352 ppb #	1
16) ACETONE	2.917	43	1752	0.4191215 ppb	100
21) n-Hexane	3.008	56	3653	0.3501049 ppb #	72
43) 1,2-DICHLOROPROPANE	4.791	62	7303	1.1561759 ppb #	31
51) TOLUENE	5.283	91	51866	1.4262680 ppb	97
52) TRANS-1,3-DICHLOROPROPENE	5.582	75	5955	0.5660233 ppb #	1
62) ETHYLBENZENE	6.293	106	3361	0.3505893 ppb	94
63) M&P-XYLENE	6.391	106	18300	1.5227333 ppb	96
64) O-XYLENE	6.701	106	7412	0.6640719 ppb	82
74) 4-ETHYLTOLUENE	7.285	105	21091	0.7295758 ppb	93
79) 1,2,4-Trimethylbenzene	7.656	105	26025	1.0917710 ppb	96
92) Naphthalene	9.804	128	18559	1.0415248 ppb #	84
97) ETHANOL	2.491	45	564	5.7873507 ppb #	18
100) Methyl Acetate	3.008	43	4494	0.7739455 ppb #	56
101) ACETONITRILE	3.191	41	525	0.5744352 ppb #	36
107) Ethyl Acetate	3.811	43	2798	0.3727549 ppb #	21
108) METHACRYLONITRILE	4.097	67	1168	0.3626598 ppb #	15
111) ISOBUTANOL	4.103	43	570	1.1149200 ppb #	1
116) Methyl Cyclohexane	4.426	83	11214	0.4716721 ppb #	50
117) 2-nitropropane	5.490	43	685	0.3785223 ppb #	17
118) METHYL METHACRYLATE	4.785	41	2266	0.3166487 ppb #	1
119) 1,4-DIOXANE	4.791	88	4473	67.1903871 ppb #	1
121) 3,3-DIMETHYL-1-BUTANOL	5.928	57	2614	3.7823431 ppb #	45
125) Cyclohexanone	7.425	55	850	0.7339100 ppb #	23

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111115a\
Data File : 1111a 12.D
Acq On : 12 Nov 2015 2:03 am
Operator : 189
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 12 08:27:42 2015
Quant Method : C:\msdchem\1\methods\V818K11O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Oct 14 09:36:20 2015
Response via : Initial Calibration



CHAIN-OF-CUSTODY RECORD

URS
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Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

801110

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210.23446543.0053AB
Project Manager: Sheri Fling	**Sample Manager:** Katie Abbott
Project Mgr Phone: (303) 332-5297	**Sample Mgr Phone:** (303) 875-0351

Lab: ESC

Cooler # 7

D228

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	VOCs 8260B (2x40ml V Amb, HCl, < 6C)	PAHs 8270 SIM (3x40ml V Amb, < 6C)	SVOCs 8270 (2x100ml G Amb, < 6C)	Tot Metals/6020/7470A (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A (1x500ml P, HNO3, < 6C)	TDS A2540C (1x250ml P, < 6C)	Nitrate + Sulfate E9056 (1x125ml P, < 6C)	Sulfide SM4500S (1x125ml Amb, NaOH+ZnAc, < 6C)	RSK 175 Methane (2x40ml V Amb, HCl, < 6C)	Tot Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)	Remarks
TU904-TMW01-NT01	11/12/15	12:00	GW	2 ~~3~~	X	X	X	X		X						VOCs ONLY GI
TU904-TMW01-ND01	11/12/15	12:00	GW	~~1~~					X							

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Katie Abbott	Printed Name	Printed Name	Printed Name
Firm URS	Firm	Firm	Firm
Date/Time 11/13/15 1530	Date/Time	Date/Time	Date/Time 11/14/15 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6020 - Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc, Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium, (plus Iron, as noted).
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Poly Amb = Amber V = Vial G = Glass

Yep

3.4 SW7 COOSE

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

8010

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210.23446543.0053AB
Project Manager: Sheri Fling	**Sample Manager:** Katie Abbott
Project Mgr Phone: (303) 332-5297	**Sample Mgr Phone:** (303) 875-0351

Lab: ESC

Cooler # 7

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	VOCs 8260B	PAHs 8270 SIM	SVOCs 8270	Tot Metals/6020/7470A	Dis Metals/6020/7470A	TDS A2540C	Nitrate + Sulfate E9056	Sulfide SM4500S	RSK 175 Methane	Tot Metals/6020/7470A plus iron	Dis Metals/6020/7470A plus iron	Remarks
					2x40ml V Amb, HCL, < 6C	3x40ml V Amb, < 6C	2x100ml G Amb, < 6C	1x500ml P, HNO3, < 6C	1x500ml P, HNO3, < 6C	1x250ml P, < 6C	1x125ml P, < 6C	1x125ml Amb NaOH+ZnAc, < 6C	2x40ml V Amb, HCL, < 6C	1x500ml P, HNO3, < 6C	1x500ml P, HNO3, < 6C	
TU904-TMW03-NT01	11/12/15	12:10	GW	28	X	X	X	X		X						VOCs ONLY ok
TU904-TMW03-ND01	11/12/15	12:10	GW	1					X							

ok

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Katie Abbott	Printed Name	Printed Name	Printed Name
Firm URS	Firm	Firm	Firm
Date/Time 11/13/15 1530	Date/Time	Date/Time	Date/Time 11/14/15 0920

Special Instructions:
1. All soil samples require percent moisture.
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   7470A - Mercury
7. Dissolved metals are field filtered

4 up

Container Key: P = Poly Amb = Amber V = Vial G = Glass

3.4 JW7 10058

ESC Lab Sciences

Login Confirmation Report

November 15, 2015 - 00:08

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L801110**	Receive Date: 11/14/2015	TSR: Pam Langford
Template #		Entered: 11/14/2015	By: Matt Shacklock
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 60425210.23446543.00	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By: Katie Abbott	PO Req: Y
Phone:	(303) 740-3909 FAX:	Reg. State: NM	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com,bmock@esclabsciences.com,tmellette@esclabsciences.com		Quote #

Proj/Acct Comments: PO #' 312575 Metals list: ICP -Al ICP/MS-Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Tl, V, Zn plus HG

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L801110-01		**TU904-TMW01-NT01**	**11/12/2015 12:00** Sample Description: Holloman AFB Sample Comments: QC4/DOD	**Site:**	**Est. Due Date*: 11/20/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L801110-02		**TU904-TMW03-NT01**	**11/12/2015 12:00** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 11/20/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 92.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**