ANALYTICAL REPORT

Job Number: 500-136029-1

Job Description: Ellsworth Industrial Park

For:
Ramboll Environ US Corporation
333 W Wacker Drive
Suite 2700
Chicago, IL 60606

Attention: Ross Jones

Approved for release.
Therese M Hargraves
Project Manager I
11/7/2017 8:50 AM

Designee for
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11/07/2017

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-136029-1

Comments
Revision added to report the Sulfide Method Blank.

No additional comments.

Receipt
The samples were received on 10/20/2017 4:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Receipt Exceptions

Received 1 MEE vial and 1 VOA vial with headspace.

GC/MS VOA
Method(s) 8260B: The following analytes recovered outside control limits for the LCS associated with batch 407027: Bromomethane and Methyl-tert-butyl ether. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The compound 2-Chloroethylvinyl ether is degraded in the presence of acid in preserved samples. Results for 2-Chloroethyl vinyl ether in the matrix spike and matrix spike duplicate OMW2D-GW-101917 (500-136029-1), OMW2D-GW-101917 (500-136029-1[MS]) and OMW2D-GW-101917 (500-136029-1[MSD])are not available due to acid degradation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures.

OMW2D-GW-101917 (500-136029-1), OMW2D-GW-101917 (500-136029-1[MS]), OMW2D-GW-101917 (500-136029-1[MSD]), (CCV 240-300627/19), (CCVRT 240-300627/3), (LCS 240-300627/5) and (MB 240-300627/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Client Sample ID: OMW2D-GW-101917 — Lab Sample ID: 500-136029-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.0010		0.0010	0.00037	mg/L	1		8260B	Total/NA
Chloroform	0.0022		0.0020	0.00037	mg/L	1		8260B	Total/NA
Toluene	0.00057		0.00050	0.00015	mg/L	1		8260B	Total/NA
Methane	0.46	J	1.0	0.17	ug/L	1		RSK-175	Total/NA
Chloride	140		4.0	3.4	mg/L	20		9056A	Total/NA
Nitrate as N	0.074	J	0.20	0.068	mg/L	1		9056A	Total/NA
Sulfate	100		4.0	1.9	mg/L	20		9056A	Total/NA
Total Organic Carbon - Duplicates	1.9		1.0	0.47	mg/L	1		9060A	Total/NA

Client Sample ID: EIP-TB07-102017 — Lab Sample ID: 500-136029-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Client Sample ID: OMW2D-GW-101917

Lab Sample ID: 500-136029-1

Date Collected: 10/19/17 16:04

Matrix: Water

Date Received: 10/20/17 16:05

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.24	ug/L			10/23/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 125*		*10/23/17 17:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/26/17 18:15	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/26/17 18:15	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/26/17 18:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/26/17 18:15	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/26/17 18:15	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/26/17 18:15	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/26/17 18:15	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/26/17 18:15	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/26/17 18:15	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/26/17 18:15	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/26/17 18:15	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/26/17 18:15	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/26/17 18:15	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/26/17 18:15	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:15	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/26/17 18:15	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/26/17 18:15	1
2-Chloroethyl vinyl ether	ND	F1	0.0020	0.00077	mg/L			10/26/17 18:15	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/26/17 18:15	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/26/17 18:15	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/26/17 18:15	1
Acetone	ND		0.0050	0.0017	mg/L			10/26/17 18:15	1
Acrolein	ND		0.10	0.023	mg/L			10/26/17 18:15	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/26/17 18:15	1
Benzene	ND		0.00050	0.00015	mg/L			10/26/17 18:15	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/26/17 18:15	1
Bromodichloromethane	**0.0010**		0.0010	0.00037	mg/L			10/26/17 18:15	1
Bromoform	ND		0.0010	0.00048	mg/L			10/26/17 18:15	1
Bromomethane	ND	F1 *	0.0020	0.00080	mg/L			10/26/17 18:15	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/26/17 18:15	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/26/17 18:15	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/26/17 18:15	1
Chloroform	**0.0022**		0.0020	0.00037	mg/L			10/26/17 18:15	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/26/17 18:15	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/26/17 18:15	1

Client Sample ID: OMW2D-GW-101917

Lab Sample ID: 500-136029-1

Date Collected: 10/19/17 16:04
Date Received: 10/20/17 16:05

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/26/17 18:15	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/26/17 18:15	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/26/17 18:15	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/26/17 18:15	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/26/17 18:15	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/26/17 18:15	1
Iodomethane	ND		0.0025	0.00066	mg/L			10/26/17 18:15	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/26/17 18:15	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/26/17 18:15	1
Methyl Ethyl Ketone	ND	F2	0.0050	0.0021	mg/L			10/26/17 18:15	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/26/17 18:15	1
Methyl tert-butyl ether	ND	*	0.0010	0.00039	mg/L			10/26/17 18:15	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/26/17 18:15	1
Methylene Chloride	ND		0.0050	0.0016	mg/L			10/26/17 18:15	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/26/17 18:15	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/26/17 18:15	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:15	1
Styrene	ND		0.0010	0.00039	mg/L			10/26/17 18:15	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/26/17 18:15	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/26/17 18:15	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/26/17 18:15	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:15	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/26/17 18:15	1
Toluene	**0.00057**		0.00050	0.00015	mg/L			10/26/17 18:15	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/26/17 18:15	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/26/17 18:15	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/26/17 18:15	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/26/17 18:15	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/26/17 18:15	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/26/17 18:15	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/26/17 18:15	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/26/17 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*10/26/17 18:15*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*10/26/17 18:15*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*10/26/17 18:15*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/26/17 18:15*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.46**	**J**	1.0	0.17	ug/L			10/25/17 21:10	1
Ethane	ND		1.0	0.10	ug/L			10/25/17 21:10	1
Ethylene	ND		1.0	0.11	ug/L			10/25/17 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*84*		*60 - 140*		*10/25/17 21:10*	*1*

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Client Sample ID: OMW2D-GW-101917

Lab Sample ID: 500-136029-1

Date Collected: 10/19/17 16:04

Matrix: Water

Date Received: 10/20/17 16:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		4.0	3.4	mg/L			11/02/17 13:28	20
Nitrate as N	**0.074**	**J**	0.20	0.068	mg/L			10/21/17 01:43	1
Sulfate	**100**		4.0	1.9	mg/L			11/02/17 13:28	20
Total Organic Carbon - Duplicates	**1.9**		1.0	0.47	mg/L			10/24/17 05:38	1
Sulfide	ND		1.0	0.23	mg/L			10/26/17 08:44	1

Client Sample ID: EIP-TB07-102017

Lab Sample ID: 500-136029-2

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/20/17 16:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/26/17 18:45	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/26/17 18:45	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/26/17 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/26/17 18:45	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/26/17 18:45	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/26/17 18:45	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/26/17 18:45	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/26/17 18:45	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/26/17 18:45	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/26/17 18:45	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/26/17 18:45	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/26/17 18:45	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/26/17 18:45	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/26/17 18:45	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:45	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/26/17 18:45	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/26/17 18:45	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/26/17 18:45	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/26/17 18:45	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/26/17 18:45	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/26/17 18:45	1
Acetone	ND		0.0050	0.0017	mg/L			10/26/17 18:45	1
Acrolein	ND		0.10	0.023	mg/L			10/26/17 18:45	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/26/17 18:45	1
Benzene	ND		0.00050	0.00015	mg/L			10/26/17 18:45	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/26/17 18:45	1
Bromodichloromethane	ND		0.0010	0.00037	mg/L			10/26/17 18:45	1
Bromoform	ND		0.0010	0.00048	mg/L			10/26/17 18:45	1
Bromomethane	ND	*	0.0020	0.00080	mg/L			10/26/17 18:45	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/26/17 18:45	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/26/17 18:45	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/26/17 18:45	1
Chloroform	ND		0.0020	0.00037	mg/L			10/26/17 18:45	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/26/17 18:45	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/26/17 18:45	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/26/17 18:45	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/26/17 18:45	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/26/17 18:45	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/26/17 18:45	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/26/17 18:45	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/26/17 18:45	1

Client Sample ID: EIP-TB07-102017

Lab Sample ID: 500-136029-2

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/20/17 16:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		0.0025	0.00066	mg/L			10/26/17 18:45	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/26/17 18:45	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/26/17 18:45	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/26/17 18:45	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/26/17 18:45	1
Methyl tert-butyl ether	ND	*	0.0010	0.00039	mg/L			10/26/17 18:45	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/26/17 18:45	1
Methylene Chloride	ND		0.0050	0.0016	mg/L			10/26/17 18:45	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/26/17 18:45	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/26/17 18:45	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:45	1
Styrene	ND		0.0010	0.00039	mg/L			10/26/17 18:45	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/26/17 18:45	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/26/17 18:45	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/26/17 18:45	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 18:45	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/26/17 18:45	1
Toluene	ND		0.00050	0.00015	mg/L			10/26/17 18:45	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/26/17 18:45	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/26/17 18:45	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/26/17 18:45	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/26/17 18:45	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/26/17 18:45	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/26/17 18:45	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/26/17 18:45	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/26/17 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*10/26/17 18:45*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*10/26/17 18:45*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*10/26/17 18:45*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*10/26/17 18:45*	*1*

Default Detection Limits

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,4-Dioxane	2.0	0.24	ug/L	8260B SIM

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	0.0010	0.00046	mg/L	8260B
1,1,1-Trichloroethane	0.0010	0.00038	mg/L	8260B
1,1,2,2-Tetrachloroethane	0.0010	0.00040	mg/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	0.00046	mg/L	8260B
1,1,2-Trichloroethane	0.0010	0.00035	mg/L	8260B
1,1-Dichloroethane	0.0010	0.00041	mg/L	8260B
1,1-Dichloroethene	0.0010	0.00039	mg/L	8260B
1,1-Dichloropropene	0.0010	0.00030	mg/L	8260B
1,2,3-Trichlorobenzene	0.0010	0.00046	mg/L	8260B
1,2,3-Trichloropropane	0.0010	0.00041	mg/L	8260B
1,2,4-Trichlorobenzene	0.0010	0.00034	mg/L	8260B
1,2,4-Trimethylbenzene	0.0010	0.00036	mg/L	8260B
1,2-Dibromo-3-Chloropropane	0.0050	0.0020	mg/L	8260B
1,2-Dibromoethane	0.0010	0.00039	mg/L	8260B
1,2-Dichlorobenzene	0.0010	0.00033	mg/L	8260B
1,2-Dichloroethane	0.0010	0.00039	mg/L	8260B
1,2-Dichloropropane	0.0010	0.00043	mg/L	8260B
1,3,5-Trimethylbenzene	0.0010	0.00025	mg/L	8260B
1,3-Dichlorobenzene	0.0010	0.00040	mg/L	8260B
1,3-Dichloropropane	0.0010	0.00036	mg/L	8260B
1,4-Dichlorobenzene	0.0010	0.00036	mg/L	8260B
1,4-Dioxane	0.10	0.041	mg/L	8260B
2,2-Dichloropropane	0.0010	0.00044	mg/L	8260B
2-Chloroethyl vinyl ether	0.0020	0.00077	mg/L	8260B
2-Chlorotoluene	0.0010	0.00031	mg/L	8260B
2-Hexanone	0.0050	0.0016	mg/L	8260B
4-Chlorotoluene	0.0010	0.00035	mg/L	8260B
Acetone	0.0050	0.0017	mg/L	8260B
Acrolein	0.10	0.023	mg/L	8260B
Acrylonitrile	0.020	0.0045	mg/L	8260B
Benzene	0.00050	0.00015	mg/L	8260B
Bromobenzene	0.0010	0.00036	mg/L	8260B
Bromochloromethane	0.0010	0.00043	mg/L	8260B
Bromodichloromethane	0.0010	0.00037	mg/L	8260B
Bromoform	0.0010	0.00048	mg/L	8260B
Bromomethane	0.0020	0.00080	mg/L	8260B
Carbon disulfide	0.0020	0.00045	mg/L	8260B
Carbon tetrachloride	0.0010	0.00038	mg/L	8260B
Chlorobenzene	0.0010	0.00039	mg/L	8260B
Chloroethane	0.0010	0.00051	mg/L	8260B
Chloroform	0.0020	0.00037	mg/L	8260B
Chloromethane	0.0010	0.00032	mg/L	8260B
cis-1,2-Dichloroethene	0.0010	0.00041	mg/L	8260B
cis-1,3-Dichloropropene	0.0010	0.00042	mg/L	8260B
Cyclohexane	0.0010	0.00049	mg/L	8260B
Dibromochloromethane	0.0010	0.00049	mg/L	8260B
Dibromomethane	0.0010	0.00027	mg/L	8260B

Default Detection Limits

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	RL	MDL	Units	Method
Dichlorodifluoromethane	0.0020	0.00067	mg/L	8260B
Ethylbenzene	0.00050	0.00018	mg/L	8260B
Iodomethane	0.0025	0.00066	mg/L	8260B
Isopropyl ether	0.0010	0.00028	mg/L	8260B
Isopropylbenzene	0.0010	0.00039	mg/L	8260B
Methyl acetate	0.0050	0.0020	mg/L	8260B
Methyl Ethyl Ketone	0.0050	0.0021	mg/L	8260B
methyl isobutyl ketone	0.0050	0.0022	mg/L	8260B
Methyl tert-butyl ether	0.0010	0.00039	mg/L	8260B
Methylcyclohexane	0.0010	0.00032	mg/L	8260B
Methylene Chloride	0.0050	0.0016	mg/L	8260B
Naphthalene	0.0010	0.00034	mg/L	8260B
n-Butylbenzene	0.0010	0.00039	mg/L	8260B
N-Propylbenzene	0.0010	0.00041	mg/L	8260B
p-Isopropyltoluene	0.0010	0.00036	mg/L	8260B
sec-Butylbenzene	0.0010	0.00040	mg/L	8260B
Styrene	0.0010	0.00039	mg/L	8260B
Tert-amyl methyl ether	0.0010	0.00040	mg/L	8260B
tert-Butyl alcohol	0.050	0.012	mg/L	8260B
Tert-butyl ethyl ether	0.0010	0.00026	mg/L	8260B
tert-Butylbenzene	0.0010	0.00040	mg/L	8260B
Tetrachloroethene	0.0010	0.00037	mg/L	8260B
Toluene	0.00050	0.00015	mg/L	8260B
trans-1,2-Dichloroethene	0.0010	0.00035	mg/L	8260B
trans-1,3-Dichloropropene	0.0010	0.00036	mg/L	8260B
trans-1,4-Dichloro-2-butene	0.0050	0.0012	mg/L	8260B
Trichloroethene	0.00050	0.00016	mg/L	8260B
Trichlorofluoromethane	0.0010	0.00043	mg/L	8260B
Vinyl acetate	0.0020	0.00091	mg/L	8260B
Vinyl chloride	0.00050	0.00020	mg/L	8260B
Xylenes, Total	0.0010	0.00022	mg/L	8260B

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	1.0	0.10	ug/L	RSK-175
Ethylene	1.0	0.11	ug/L	RSK-175
Methane	1.0	0.17	ug/L	RSK-175

General Chemistry

Analyte	RL	MDL	Units	Method
Chloride	0.20	0.17	mg/L	9056A
Nitrate as N	0.20	0.068	mg/L	9056A
Sulfate	0.20	0.095	mg/L	9056A
Total Organic Carbon - Duplicates	1.0	0.47	mg/L	9060A
Sulfide	1.0	0.23	mg/L	SM 4500 S2 F

Surrogate Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-136029-1	OMW2D-GW-101917	99	90	110	92
500-136029-1 MS	OMW2D-GW-101917	95	91	106	92
500-136029-1 MSD	OMW2D-GW-101917	94	91	105	93
500-136029-2	EIP-TB07-102017	98	91	111	91
LCS 500-407027/7	Lab Control Sample	90	87	103	93
MB 500-407027/6	Method Blank	97	89	107	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DCE
Lab Sample ID	Client Sample ID	(63-125)
500-136029-1	OMW2D-GW-101917	100
500-136029-1 MS	OMW2D-GW-101917	103
500-136029-1 MSD	OMW2D-GW-101917	103
LCS 240-300228/4	Lab Control Sample	101
MB 240-300228/5	Method Blank	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		rifluoroet
Lab Sample ID	Client Sample ID	(60-140)
500-136029-1	OMW2D-GW-101917	84
500-136029-1 MS	OMW2D-GW-101917	83
500-136029-1 MSD	OMW2D-GW-101917	83
LCS 240-300627/5	Lab Control Sample	86
MB 240-300627/4	Method Blank	88

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-407027/6
Matrix: Water
Analysis Batch: 407027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/26/17 11:47	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/26/17 11:47	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/26/17 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/26/17 11:47	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/26/17 11:47	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/26/17 11:47	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/26/17 11:47	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/26/17 11:47	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/26/17 11:47	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/26/17 11:47	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/26/17 11:47	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/26/17 11:47	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/26/17 11:47	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/26/17 11:47	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/26/17 11:47	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/26/17 11:47	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/26/17 11:47	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/26/17 11:47	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/26/17 11:47	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/26/17 11:47	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/26/17 11:47	1
Acetone	ND		0.0050	0.0017	mg/L			10/26/17 11:47	1
Acrolein	ND		0.10	0.023	mg/L			10/26/17 11:47	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/26/17 11:47	1
Benzene	ND		0.00050	0.00015	mg/L			10/26/17 11:47	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/26/17 11:47	1
Bromodichloromethane	ND		0.0010	0.00037	mg/L			10/26/17 11:47	1
Bromoform	ND		0.0010	0.00048	mg/L			10/26/17 11:47	1
Bromomethane	ND		0.0020	0.00080	mg/L			10/26/17 11:47	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/26/17 11:47	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/26/17 11:47	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/26/17 11:47	1
Chloroform	ND		0.0020	0.00037	mg/L			10/26/17 11:47	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/26/17 11:47	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/26/17 11:47	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/26/17 11:47	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/26/17 11:47	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/26/17 11:47	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/26/17 11:47	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/26/17 11:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-407027/6
Matrix: Water
Analysis Batch: 407027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/26/17 11:47	1
Iodomethane	ND		0.0025	0.00066	mg/L			10/26/17 11:47	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/26/17 11:47	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/26/17 11:47	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/26/17 11:47	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/26/17 11:47	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/26/17 11:47	1
Methylene Chloride	ND		0.0050	0.0016	mg/L			10/26/17 11:47	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/26/17 11:47	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/26/17 11:47	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 11:47	1
Styrene	ND		0.0010	0.00039	mg/L			10/26/17 11:47	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/26/17 11:47	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/26/17 11:47	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/26/17 11:47	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/26/17 11:47	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/26/17 11:47	1
Toluene	ND		0.00050	0.00015	mg/L			10/26/17 11:47	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/26/17 11:47	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/26/17 11:47	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/26/17 11:47	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/26/17 11:47	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/26/17 11:47	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/26/17 11:47	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/26/17 11:47	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/26/17 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/26/17 11:47*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*10/26/17 11:47*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*10/26/17 11:47*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*10/26/17 11:47*	*1*

Lab Sample ID: LCS 500-407027/7
Matrix: Water
Analysis Batch: 407027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0508		mg/L		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0474		mg/L		95	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0437		mg/L		87	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0503		mg/L		101	70 - 123
1,1,2-Trichloroethane	0.0500	0.0462		mg/L		92	70 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407027/7
Matrix: Water
Analysis Batch: 407027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.0448		mg/L		90	70 - 125
1,1-Dichloroethene	0.0500	0.0476		mg/L		95	67 - 122
1,1-Dichloropropene	0.0500	0.0454		mg/L		91	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0426		mg/L		85	55 - 140
1,2,3-Trichloropropane	0.0500	0.0389		mg/L		78	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0400		mg/L		80	66 - 127
1,2,4-Trimethylbenzene	0.0500	0.0451		mg/L		90	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0382		mg/L		76	56 - 123
1,2-Dibromoethane	0.0500	0.0476		mg/L		95	70 - 125
1,2-Dichlorobenzene	0.0500	0.0466		mg/L		93	70 - 125
1,2-Dichloroethane	0.0500	0.0432		mg/L		86	68 - 127
1,2-Dichloropropane	0.0500	0.0470		mg/L		94	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0448		mg/L		90	70 - 123
1,3-Dichlorobenzene	0.0500	0.0473		mg/L		95	70 - 125
1,3-Dichloropropane	0.0500	0.0434		mg/L		87	62 - 136
1,4-Dichlorobenzene	0.0500	0.0474		mg/L		95	70 - 120
1,4-Dioxane	1.00	0.979		mg/L		98	70 - 129
2,2-Dichloropropane	0.0500	0.0404		mg/L		81	58 - 129
2-Chloroethyl vinyl ether	0.0500	0.0352		mg/L		70	52 - 136
2-Chlorotoluene	0.0500	0.0449		mg/L		90	70 - 125
2-Hexanone	0.0500	0.0304		mg/L		61	56 - 135
4-Chlorotoluene	0.0500	0.0446		mg/L		89	68 - 124
Acetone	0.0500	0.0337		mg/L		67	40 - 143
Acrolein	2.00	1.07		mg/L		54	40 - 150
Acrylonitrile	0.500	0.406		mg/L		81	67 - 140
Benzene	0.0500	0.0437		mg/L		87	70 - 120
Bromobenzene	0.0500	0.0467		mg/L		93	70 - 122
Bromochloromethane	0.0500	0.0513		mg/L		103	65 - 122
Bromodichloromethane	0.0500	0.0470		mg/L		94	69 - 120
Bromoform	0.0500	0.0516		mg/L		103	56 - 132
Bromomethane	0.0500	0.0722	*	mg/L		144	40 - 130
Carbon disulfide	0.0500	0.0437		mg/L		87	66 - 120
Carbon tetrachloride	0.0500	0.0510		mg/L		102	65 - 122
Chlorobenzene	0.0500	0.0476		mg/L		95	70 - 120
Chloroethane	0.0500	0.0465		mg/L		93	45 - 127
Chloroform	0.0500	0.0459		mg/L		92	70 - 120
Chloromethane	0.0500	0.0304		mg/L		61	54 - 147
cis-1,2-Dichloroethene	0.0500	0.0455		mg/L		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0399		mg/L		80	64 - 127
Cyclohexane	0.0500	0.0440		mg/L		88	69 - 142
Dibromochloromethane	0.0500	0.0503		mg/L		101	68 - 125
Dibromomethane	0.0500	0.0474		mg/L		95	70 - 120
Dichlorodifluoromethane	0.0500	0.0391		mg/L		78	40 - 150
Ethylbenzene	0.0500	0.0453		mg/L		91	70 - 120
Iodomethane	0.0500	0.0473		mg/L		95	61 - 136
Isopropylbenzene	0.0500	0.0460		mg/L		92	70 - 126
Methyl acetate	0.100	0.0665		mg/L		67	56 - 150
Methyl Ethyl Ketone	0.0500	0.0347		mg/L		69	53 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407027/7
Matrix: Water
Analysis Batch: 407027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
methyl isobutyl ketone	0.0500	0.0306		mg/L		61	56 - 133
Methyl tert-butyl ether	0.0500	0.0341	*	mg/L		68	70 - 120
Methylcyclohexane	0.0500	0.0446		mg/L		89	70 - 120
Methylene Chloride	0.0500	0.0439		mg/L		88	69 - 125
Naphthalene	0.0500	0.0387		mg/L		77	59 - 130
n-Butylbenzene	0.0500	0.0442		mg/L		88	68 - 125
N-Propylbenzene	0.0500	0.0446		mg/L		89	69 - 127
p-Isopropyltoluene	0.0500	0.0461		mg/L		92	70 - 125
sec-Butylbenzene	0.0500	0.0454		mg/L		91	70 - 123
Styrene	0.0500	0.0462		mg/L		92	70 - 120
tert-Butyl alcohol	0.500	0.423		mg/L		85	70 - 125
tert-Butylbenzene	0.0500	0.0460		mg/L		92	70 - 121
Tetrachloroethene	0.0500	0.0467		mg/L		93	70 - 128
Toluene	0.0500	0.0420		mg/L		84	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0472		mg/L		94	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0416		mg/L		83	62 - 128
trans-1,4-Dichloro-2-butene	0.0500	0.0345		mg/L		69	60 - 130
Trichloroethene	0.0500	0.0516		mg/L		103	70 - 125
Trichlorofluoromethane	0.0500	0.0523		mg/L		105	70 - 126
Vinyl acetate	0.0500	0.0303		mg/L		61	43 - 133
Vinyl chloride	0.0500	0.0500		mg/L		100	64 - 126
Xylenes, Total	0.100	0.0859		mg/L		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*
Dibromofluoromethane	*103*		*75 - 120*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: 500-136029-1 MS
Matrix: Water
Analysis Batch: 407027

Client Sample ID: OMW2D-GW-101917
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0563		mg/L		113	70 - 125
1,1,1-Trichloroethane	ND		0.0500	0.0512		mg/L		102	70 - 125
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0492		mg/L		98	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0500	0.0543		mg/L		109	70 - 123
1,1,2-Trichloroethane	ND		0.0500	0.0507		mg/L		101	70 - 122
1,1-Dichloroethane	ND		0.0500	0.0486		mg/L		97	70 - 125
1,1-Dichloroethene	ND		0.0500	0.0497		mg/L		99	67 - 122
1,1-Dichloropropene	ND		0.0500	0.0480		mg/L		96	70 - 121
1,2,3-Trichlorobenzene	ND		0.0500	0.0470		mg/L		94	55 - 140
1,2,3-Trichloropropane	ND		0.0500	0.0439		mg/L		88	50 - 133
1,2,4-Trichlorobenzene	ND		0.0500	0.0425		mg/L		85	66 - 127
1,2,4-Trimethylbenzene	ND		0.0500	0.0497		mg/L		99	70 - 123
1,2-Dibromo-3-Chloropropane	ND		0.0500	0.0444		mg/L		89	56 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136029-1 MS
Matrix: Water
Analysis Batch: 407027

Client Sample ID: OMW2D-GW-101917
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	ND		0.0500	0.0522		mg/L		104	70 - 125
1,2-Dichlorobenzene	ND		0.0500	0.0524		mg/L		105	70 - 125
1,2-Dichloroethane	ND		0.0500	0.0478		mg/L		96	68 - 127
1,2-Dichloropropane	ND		0.0500	0.0508		mg/L		102	67 - 130
1,3,5-Trimethylbenzene	ND		0.0500	0.0488		mg/L		98	70 - 123
1,3-Dichlorobenzene	ND		0.0500	0.0519		mg/L		104	70 - 125
1,3-Dichloropropane	ND		0.0500	0.0476		mg/L		95	62 - 136
1,4-Dichlorobenzene	ND		0.0500	0.0520		mg/L		104	70 - 120
1,4-Dioxane	ND		1.00	0.998		mg/L		100	70 - 129
2,2-Dichloropropane	ND		0.0500	0.0432		mg/L		86	58 - 129
2-Chloroethyl vinyl ether	ND	F1	0.0500	ND	F1	mg/L		0	52 - 136
2-Chlorotoluene	ND		0.0500	0.0493		mg/L		99	70 - 125
2-Hexanone	ND		0.0500	0.0295		mg/L		59	56 - 135
4-Chlorotoluene	ND		0.0500	0.0491		mg/L		98	68 - 124
Acetone	ND		0.0500	0.0309		mg/L		62	40 - 143
Acrolein	ND		2.00	1.17		mg/L		58	40 - 150
Acrylonitrile	ND		0.500	0.440		mg/L		88	67 - 140
Benzene	ND		0.0500	0.0479		mg/L		96	70 - 120
Bromobenzene	ND		0.0500	0.0527		mg/L		105	70 - 122
Bromochloromethane	ND		0.0500	0.0561		mg/L		112	65 - 122
Bromodichloromethane	0.0010		0.0500	0.0543		mg/L		107	69 - 120
Bromoform	ND		0.0500	0.0567		mg/L		113	56 - 132
Bromomethane	ND	F1 *	0.0500	0.0685	F1	mg/L		137	40 - 130
Carbon disulfide	ND		0.0500	0.0462		mg/L		92	66 - 120
Carbon tetrachloride	ND		0.0500	0.0555		mg/L		111	65 - 122
Chlorobenzene	ND		0.0500	0.0514		mg/L		103	70 - 120
Chloroethane	ND		0.0500	0.0432		mg/L		86	45 - 127
Chloroform	0.0022		0.0500	0.0527		mg/L		101	70 - 120
Chloromethane	ND		0.0500	0.0312		mg/L		62	54 - 147
cis-1,2-Dichloroethene	ND		0.0500	0.0509		mg/L		102	70 - 125
cis-1,3-Dichloropropene	ND		0.0500	0.0425		mg/L		85	64 - 127
Cyclohexane	ND		0.0500	0.0463		mg/L		93	69 - 142
Dibromochloromethane	ND		0.0500	0.0576		mg/L		115	68 - 125
Dibromomethane	ND		0.0500	0.0530		mg/L		106	70 - 120
Dichlorodifluoromethane	ND		0.0500	0.0351		mg/L		70	40 - 150
Ethylbenzene	ND		0.0500	0.0485		mg/L		97	70 - 120
Iodomethane	ND		0.0500	0.0462		mg/L		92	61 - 136
Isopropylbenzene	ND		0.0500	0.0511		mg/L		102	70 - 126
Methyl acetate	ND		0.100	0.0698		mg/L		70	56 - 150
Methyl Ethyl Ketone	ND	F2	0.0500	0.0290		mg/L		58	53 - 141
methyl isobutyl ketone	ND		0.0500	0.0283		mg/L		57	56 - 133
Methyl tert-butyl ether	ND	*	0.0500	0.0378		mg/L		76	70 - 120
Methylcyclohexane	ND		0.0500	0.0474		mg/L		95	70 - 120
Methylene Chloride	ND		0.0500	0.0482		mg/L		96	69 - 125
Naphthalene	ND		0.0500	0.0439		mg/L		88	59 - 130
n-Butylbenzene	ND		0.0500	0.0468		mg/L		94	68 - 125
N-Propylbenzene	ND		0.0500	0.0489		mg/L		98	69 - 127
p-Isopropyltoluene	ND		0.0500	0.0518		mg/L		104	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	ND		0.0500	0.0504		mg/L		101	70 - 123
Styrene	ND		0.0500	0.0495		mg/L		99	70 - 120
tert-Butyl alcohol	ND		0.500	0.549		mg/L		110	70 - 125
tert-Butylbenzene	ND		0.0500	0.0506		mg/L		101	70 - 121
Tetrachloroethene	ND		0.0500	0.0505		mg/L		101	70 - 128
Toluene	0.00057		0.0500	0.0460		mg/L		91	70 - 125
trans-1,2-Dichloroethene	ND		0.0500	0.0499		mg/L		100	70 - 125
trans-1,3-Dichloropropene	ND		0.0500	0.0449		mg/L		90	62 - 128
trans-1,4-Dichloro-2-butene	ND		0.0500	0.0389		mg/L		78	60 - 130
Trichloroethene	ND		0.0500	0.0554		mg/L		111	70 - 125
Trichlorofluoromethane	ND		0.0500	0.0483		mg/L		97	70 - 126
Vinyl acetate	ND		0.0500	0.0308		mg/L		62	43 - 133
Vinyl chloride	ND		0.0500	0.0454		mg/L		91	64 - 126
Xylenes, Total	ND		0.100	0.0933		mg/L		93	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*106*		*75 - 120*
Toluene-d8 (Surr)	*92*		*75 - 120*

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0533		mg/L		107	70 - 125	5	20
1,1,1-Trichloroethane	ND		0.0500	0.0504		mg/L		101	70 - 125	2	20
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0484		mg/L		97	67 - 127	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0500	0.0526		mg/L		105	70 - 123	3	20
1,1,2-Trichloroethane	ND		0.0500	0.0479		mg/L		96	70 - 122	6	20
1,1-Dichloroethane	ND		0.0500	0.0471		mg/L		94	70 - 125	3	20
1,1-Dichloroethene	ND		0.0500	0.0476		mg/L		95	67 - 122	4	20
1,1-Dichloropropene	ND		0.0500	0.0476		mg/L		95	70 - 121	1	20
1,2,3-Trichlorobenzene	ND		0.0500	0.0463		mg/L		93	55 - 140	1	20
1,2,3-Trichloropropane	ND		0.0500	0.0418		mg/L		84	50 - 133	5	20
1,2,4-Trichlorobenzene	ND		0.0500	0.0429		mg/L		86	66 - 127	1	20
1,2,4-Trimethylbenzene	ND		0.0500	0.0487		mg/L		97	70 - 123	2	20
1,2-Dibromo-3-Chloropropane	ND		0.0500	0.0443		mg/L		89	56 - 123	0	20
1,2-Dibromoethane	ND		0.0500	0.0509		mg/L		102	70 - 125	3	20
1,2-Dichlorobenzene	ND		0.0500	0.0506		mg/L		101	70 - 125	3	20
1,2-Dichloroethane	ND		0.0500	0.0459		mg/L		92	68 - 127	4	20
1,2-Dichloropropane	ND		0.0500	0.0484		mg/L		97	67 - 130	5	20
1,3,5-Trimethylbenzene	ND		0.0500	0.0477		mg/L		95	70 - 123	2	20
1,3-Dichlorobenzene	ND		0.0500	0.0511		mg/L		102	70 - 125	2	20
1,3-Dichloropropane	ND		0.0500	0.0474		mg/L		95	62 - 136	0	20
1,4-Dichlorobenzene	ND		0.0500	0.0509		mg/L		102	70 - 120	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136029-1 MSD
Matrix: Water
Analysis Batch: 407027

Client Sample ID: OMW2D-GW-101917
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1.00	1.04		mg/L		104	70 - 129	4	20
2,2-Dichloropropane	ND		0.0500	0.0425		mg/L		85	58 - 129	2	20
2-Chloroethyl vinyl ether	ND	F1	0.0500	ND	F1	mg/L		0	52 - 136	NC	20
2-Chlorotoluene	ND		0.0500	0.0483		mg/L		97	70 - 125	2	20
2-Hexanone	ND		0.0500	0.0320		mg/L		64	56 - 135	8	20
4-Chlorotoluene	ND		0.0500	0.0473		mg/L		95	68 - 124	4	20
Acetone	ND		0.0500	0.0322		mg/L		64	40 - 143	4	20
Acrolein	ND		2.00	1.20		mg/L		60	40 - 150	3	20
Acrylonitrile	ND		0.500	0.423		mg/L		85	67 - 140	4	20
Benzene	ND		0.0500	0.0462		mg/L		92	70 - 120	4	20
Bromobenzene	ND		0.0500	0.0508		mg/L		102	70 - 122	4	20
Bromochloromethane	ND		0.0500	0.0539		mg/L		108	65 - 122	4	20
Bromodichloromethane	0.0010		0.0500	0.0510		mg/L		100	69 - 120	6	20
Bromoform	ND		0.0500	0.0540		mg/L		108	56 - 132	5	20
Bromomethane	ND	F1 *	0.0500	0.0706	F1	mg/L		141	40 - 130	3	20
Carbon disulfide	ND		0.0500	0.0455		mg/L		91	66 - 120	2	20
Carbon tetrachloride	ND		0.0500	0.0543		mg/L		109	65 - 122	2	20
Chlorobenzene	ND		0.0500	0.0496		mg/L		99	70 - 120	3	20
Chloroethane	ND		0.0500	0.0450		mg/L		90	45 - 127	4	20
Chloroform	0.0022		0.0500	0.0515		mg/L		99	70 - 120	2	20
Chloromethane	ND		0.0500	0.0336		mg/L		67	54 - 147	7	20
cis-1,2-Dichloroethene	ND		0.0500	0.0502		mg/L		100	70 - 125	1	20
cis-1,3-Dichloropropene	ND		0.0500	0.0415		mg/L		83	64 - 127	2	20
Cyclohexane	ND		0.0500	0.0455		mg/L		91	69 - 142	2	20
Dibromochloromethane	ND		0.0500	0.0544		mg/L		109	68 - 125	6	20
Dibromomethane	ND		0.0500	0.0522		mg/L		104	70 - 120	1	20
Dichlorodifluoromethane	ND		0.0500	0.0368		mg/L		74	40 - 150	4	20
Ethylbenzene	ND		0.0500	0.0474		mg/L		95	70 - 120	2	20
Iodomethane	ND		0.0500	0.0483		mg/L		97	61 - 136	4	20
Isopropylbenzene	ND		0.0500	0.0495		mg/L		99	70 - 126	3	20
Methyl acetate	ND		0.100	0.0685		mg/L		68	56 - 150	2	20
Methyl Ethyl Ketone	ND	F2	0.0500	0.0387	F2	mg/L		77	53 - 141	29	20
methyl isobutyl ketone	ND		0.0500	0.0331		mg/L		66	56 - 133	16	20
Methyl tert-butyl ether	ND	*	0.0500	0.0359		mg/L		72	70 - 120	5	20
Methylcyclohexane	ND		0.0500	0.0459		mg/L		92	70 - 120	3	20
Methylene Chloride	ND		0.0500	0.0471		mg/L		94	69 - 125	2	20
Naphthalene	ND		0.0500	0.0437		mg/L		87	59 - 130	1	20
n-Butylbenzene	ND		0.0500	0.0462		mg/L		92	68 - 125	1	20
N-Propylbenzene	ND		0.0500	0.0478		mg/L		96	69 - 127	2	20
p-Isopropyltoluene	ND		0.0500	0.0509		mg/L		102	70 - 125	2	20
sec-Butylbenzene	ND		0.0500	0.0489		mg/L		98	70 - 123	3	20
Styrene	ND		0.0500	0.0484		mg/L		97	70 - 120	2	20
tert-Butyl alcohol	ND		0.500	0.526		mg/L		105	70 - 125	4	20
tert-Butylbenzene	ND		0.0500	0.0494		mg/L		99	70 - 121	2	20
Tetrachloroethene	ND		0.0500	0.0484		mg/L		97	70 - 128	4	20
Toluene	0.00057		0.0500	0.0448		mg/L		89	70 - 125	2	20
trans-1,2-Dichloroethene	ND		0.0500	0.0490		mg/L		98	70 - 125	2	20
trans-1,3-Dichloropropene	ND		0.0500	0.0437		mg/L		87	62 - 128	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene	ND		0.0500	0.0361		mg/L		72	60 - 130	7	20
Trichloroethene	ND		0.0500	0.0537		mg/L		107	70 - 125	3	20
Trichlorofluoromethane	ND		0.0500	0.0497		mg/L		99	70 - 126	3	20
Vinyl acetate	ND		0.0500	0.0325		mg/L		65	43 - 133	5	20
Vinyl chloride	ND		0.0500	0.0476		mg/L		95	64 - 126	5	20
Xylenes, Total	ND		0.100	0.0906		mg/L		91	70 - 125	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*105*		*75 - 120*
Toluene-d8 (Surr)	*93*		*75 - 120*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-300228/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.24	ug/L			10/23/17 16:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 125*		*10/23/17 16:33*	*1*

Lab Sample ID: LCS 240-300228/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			10.0	11.1		ug/L		111	59 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 125*

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	ND		10.0	9.69		ug/L		97	52 - 129		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 125*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		10.0	10.5		ug/L		105	52 - 129	8	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 125*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300627/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.17	ug/L			10/25/17 20:02	1
Ethane	ND		1.0	0.10	ug/L			10/25/17 20:02	1
Ethylene	ND		1.0	0.11	ug/L			10/25/17 20:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*88*		*60 - 140*		*10/25/17 20:02*	*1*

Lab Sample ID: LCS 240-300627/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300627

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			285	279		ug/L		98	80 - 120		
Ethane			536	557		ug/L		104	80 - 120		
Ethylene			501	517		ug/L		103	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*86*		*60 - 140*

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane	0.46	J	285	278		ug/L		97	50 - 150		
Ethane	ND		536	546		ug/L		102	50 - 150		
Ethylene	ND		501	510		ug/L		102	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*83*		*60 - 140*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	0.46	J	285	275		ug/L		96	50 - 150	1	30
Ethane	ND		536	544		ug/L		101	50 - 150	0	30
Ethylene	ND		501	506		ug/L		101	50 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*83*		*60 - 140*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 500-406285/59 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.17	mg/L			10/20/17 23:11	1
Nitrate as N	ND		0.20	0.068	mg/L			10/20/17 23:11	1

Lab Sample ID: LCS 500-406285/60 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.97		mg/L		99	80 - 120
Nitrate as N	2.00	2.05		mg/L		103	80 - 120

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.074	J	1.00	1.03		mg/L		96	80 - 120

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.074	J	1.00	1.02		mg/L					

Lab Sample ID: MB 500-408255/20 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.17	mg/L			11/02/17 10:56	1
Sulfate	ND		0.20	0.095	mg/L			11/02/17 10:56	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-408255/21 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.97		mg/L		99	80 - 120
Sulfate	5.00	5.11		mg/L		102	80 - 120

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100		50.0	154		mg/L		102	80 - 120

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	140		20.0	161	4	mg/L		97	80 - 120

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100		50.0	153		mg/L		99	80 - 120	1	15

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	140		20.0	160	4	mg/L		93	80 - 120	0	15

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-406794/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0	0.47	mg/L			10/24/17 00:21	1

Lab Sample ID: LCS 500-406794/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	10.0	9.63		mg/L		96	80 - 120
TOC Result 1	10.0	9.64		mg/L		96	80 - 120
TOC Result 2	10.0	9.62		mg/L		96	80 - 120

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	1.9		10.0	11.3		mg/L		93	75 - 125
TOC Result 1	1.9		10.0	11.3		mg/L		93	75 - 125
TOC Result 2	1.9		10.0	11.3		mg/L		94	75 - 125

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	1.9		10.0	11.3		mg/L		94	75 - 125	0	20
TOC Result 1	1.9		10.0	11.3		mg/L		93	75 - 125	0	20
TOC Result 2	1.9		10.0	11.3		mg/L		94	75 - 125	0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-407023/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.23	mg/L			10/26/17 08:14	1

Lab Sample ID: LCS 500-407023/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.28	3.29		mg/L		100	85 - 115

Lab Sample ID: 500-136029-1 MS — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		3.28	2.48		mg/L		76	75 - 125

Lab Sample ID: 500-136029-1 MSD — **Client Sample ID: OMW2D-GW-101917**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		3.28	2.73		mg/L		83	75 - 125	9	20

QC Association Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

GC/MS VOA

Analysis Batch: 300228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	8260B SIM	
MB 240-300228/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-300228/4	Lab Control Sample	Total/NA	Water	8260B SIM	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	8260B SIM	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	8260B SIM	

Analysis Batch: 407027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	8260B	
500-136029-2	EIP-TB07-102017	Total/NA	Water	8260B	
MB 500-407027/6	Method Blank	Total/NA	Water	8260B	
LCS 500-407027/7	Lab Control Sample	Total/NA	Water	8260B	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	8260B	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 300627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	RSK-175	
MB 240-300627/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300627/5	Lab Control Sample	Total/NA	Water	RSK-175	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	RSK-175	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 406285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	9056A	
MB 500-406285/59	Method Blank	Total/NA	Water	9056A	
LCS 500-406285/60	Lab Control Sample	Total/NA	Water	9056A	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	9056A	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	9056A	

Analysis Batch: 406794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	9060A	
MB 500-406794/4	Method Blank	Total/NA	Water	9060A	
LCS 500-406794/5	Lab Control Sample	Total/NA	Water	9060A	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	9060A	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	9060A	

Analysis Batch: 407023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	SM 4500 S2 F	
MB 500-407023/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-407023/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	SM 4500 S2 F	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 408255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136029-1	OMW2D-GW-101917	Total/NA	Water	9056A	
MB 500-408255/20	Method Blank	Total/NA	Water	9056A	
LCS 500-408255/21	Lab Control Sample	Total/NA	Water	9056A	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	9056A	
500-136029-1 MS	OMW2D-GW-101917	Total/NA	Water	9056A	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	9056A	
500-136029-1 MSD	OMW2D-GW-101917	Total/NA	Water	9056A	

Lab Chronicle

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Client Sample ID: OMW2D-GW-101917

Lab Sample ID: 500-136029-1

Date Collected: 10/19/17 16:04

Matrix: Water

Date Received: 10/20/17 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407027	10/26/17 18:15	PMF	TAL CHI
Total/NA	Analysis	8260B SIM		1	300228	10/23/17 17:22	SAM	TAL CAN
Total/NA	Analysis	RSK-175		1	300627	10/25/17 21:10	BPM	TAL CAN
Total/NA	Analysis	9056A		1	406285	10/21/17 01:43	CCK	TAL CHI
Total/NA	Analysis	9056A		20	408255	11/02/17 13:28	CCK	TAL CHI
Total/NA	Analysis	9060A		1	406794	10/24/17 05:38	HMW	TAL CHI
Total/NA	Analysis	SM 4500 S2 F		1	407023		CLB	TAL CHI
					(Start)	10/26/17 08:44		
					(End)	10/26/17 08:47		

Client Sample ID: EIP-TB07-102017

Lab Sample ID: 500-136029-2

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/20/17 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407027	10/26/17 18:45	PMF	TAL CHI

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,4-Dioxane
8260B		Water	Cyclohexane
8260B		Water	Methyl acetate
8260B		Water	Methylcyclohexane
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol
8260B		Water	Tert-butyl ethyl ether

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
9056A	Anions, Ion Chromatography	SW846	TAL CHI
9060A	Organic Carbon, Total (TOC)	SW846	TAL CHI
SM 4500 S2 F	Sulfide, Total	SM	TAL CHI

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136029-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136029-1	OMW2D-GW-101917	Water	10/19/17 16:04	10/20/17 16:05
500-136029-2	EIP-TB07-102017	Water	10/19/17 00:00	10/20/17 16:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: CMS25 Analysis Batch Number: 363659

Lab Sample ID: STD03AP 500-363659/13 I Client Sample ID:

Date Analyzed: 12/05/16 20:39 Lab File ID: 25J1205C.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acetate	4.88	Baseline	alikpalae	12/05/16 22:11
n-Butyl alcohol	6.28	Baseline	alikpalae	12/05/16 22:11

Lab Sample ID: STD04AP 500-363659/14 I Client Sample ID:

Date Analyzed: 12/05/16 21:07 Lab File ID: 25J1205D.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.68	Split Peak	alikpalae	12/05/16 22:15

Lab Sample ID: STD05AP 500-363659/15 I Client Sample ID:

Date Analyzed: 12/05/16 21:35 Lab File ID: 25J1205E.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.68	Missed Peak	alikpalae	12/05/16 22:06
Isopropyl alcohol	3.23	Missed Peak	alikpalae	12/05/16 22:06
n-Butyl alcohol	6.27	Baseline	alikpalae	12/05/16 22:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: A3UX2 Analysis Batch Number: 297993

Lab Sample ID: ICIS 240-297993/6 Client Sample ID:

Date Analyzed: 10/06/17 16:31 Lab File ID: X21220.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.07	Poor chromatography	macenczaks	10/09/17 08:48

8260B SIM

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: A3UX2 Analysis Batch Number: 300228

Lab Sample ID: CCVIS 240-300228/3 Client Sample ID:

Date Analyzed: 10/23/17 15:44 Lab File ID: X21277.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.07	Poor chromatography	macenczaks	10/23/17 16:03

Lab Sample ID: LCS 240-300228/4 Client Sample ID:

Date Analyzed: 10/23/17 16:09 Lab File ID: X21278.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.07	Poor chromatography	macenczaks	10/23/17 16:42

Lab Sample ID: 500-136029-1 MSD Client Sample ID: OMW2D-GW-101917 MSD

Date Analyzed: 10/23/17 18:12 Lab File ID: X21283.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.08	Poor chromatography	macenczaks	10/24/17 09:06

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: ZPID Analysis Batch Number: 299071

Lab Sample ID: STD1 240-299071/3 IC Client Sample ID:

Date Analyzed: 10/15/17 12:40 Lab File ID: RSK1015003.D GC Column: HP-PLOT/Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propane	4.56	Incomplete Integration	matthewsb	10/16/17 07:07

Lab Sample ID: STD2 240-299071/4 IC Client Sample ID:

Date Analyzed: 10/15/17 12:57 Lab File ID: RSK1015004.D GC Column: HP-PLOT/Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propane	4.56	Incomplete Integration	matthewsb	10/16/17 07:08

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
2ETTOL WK STD_00015	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	2ETTOL PT STD_00005	200 uL	2-Ethyltoluene	100 ug/mL
.2ETTOL PT STD_00005	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	2ETHYLTOL STD_00002	1 mL	2-Ethyltoluene	1000 ug/mL
..2ETHYLTOL STD_00002	07/01/21	ABSOLUTE STD, Lot 070116			(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
8260 23DCP WK_00076	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260 23DCP PT_00023	200 uL	2,3-Dichloro-1-propene	100 ug/mL
.8260 23DCP PT_00023	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN_00004	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
..2,3DICL1PRPEN_00004	03/15/19	ABSOLUTE STD, Lot 031516			(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
8260 ACR SPK_00122	12/07/16	11/30/16	Water, Lot NA	1 mL	8260 ACRPTSPK_00024	100 uL	Acrolein	2000 ug/mL
.8260 ACRPTSPK_00024	02/28/17	11/30/16	Water, Lot NA	1 mL	ACROLN SK STK_00023	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00023	02/28/17	Restek, Lot A0122526			(Purchased Reagent)		Acrolein	20000 ug/mL
8260 GAS SPK_00120	12/07/16	11/30/16	METHANOL, Lot 147462	2 mL	8260 GASSPKPT_00030	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00030	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	GASES SPK STK_00010	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00010	08/31/18	Restek, Lot A0113063			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 KET SPK_00094	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260KETSPKPT_00025	8 uL	2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							Methyl Ethyl Ketone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
.8260KETSPKPT_00025	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	KET SPK STK_00009	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..KET SPK STK_00009	07/31/18	Restek, Lot A0112937			(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00104	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	1,4DIOX-d8 IS_00012	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00023	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT_00023	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS_00012	06/30/19	Restek, Lot A0120108			(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00023	02/15/17	11/15/16	n/a, Lot NA	1 mL	8260A IS SK_00006	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00006	02/28/21	Restek, Lot A0117358			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT_00023	02/15/17	11/15/16	n/a, Lot NA	1 mL	T-BUOH-d9 IS_00005	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS_00005	08/31/18	Restek, Lot A0113658			(Purchased Reagent)		TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00124	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260 SS PT_00051	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 SS PT_00051	02/15/17	11/15/16	n/a, Lot NA	5 mL	8260 SS PT_00049	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00049	07/31/21	Restek, Lot A0120212			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00098	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260MEGASPKPT_00026	40 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00026	01/31/17	11/15/16	METHANOL, Lot NA	1 mL	MEGA SPK STK_00010	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00010	01/31/17		Restek, Lot A0108163		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWK_00299	12/12/16	12/05/16	Water, Lot NA	2 mL	8260/624ACRPT_00110	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00110	01/31/17	11/29/16	Water, Lot NA	1 mL	8260 ACROLEIN_00032	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00032	01/31/17	Restek, Lot A0121648			(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624ACRWK_00358	10/27/17	10/20/17	Water, Lot NA	2 mL	8260/624ACRPT_00136	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00136	11/30/17	10/20/17	Water, Lot NA	1 mL	8260 ACROLEIN_00038	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00038	11/30/17	Restek, Lot A0127476			(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_00411	12/12/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624GASPT_00076	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00076	03/05/17	12/05/16	na, Lot na	1 mL	8260/624 GAS_00013	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00013	10/31/18	Restek, Lot A0115012			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_00475	10/31/17	10/24/17	METHANOL, Lot 177891	2 mL	8260/624GASPT_00088	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00088	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00236	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624KETPT_00041	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00041	03/05/17	12/05/16	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00282	10/27/17	10/13/17	METHANOL, Lot 177891	2 mL	8260/624KETPT_00051	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00051	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 KET_00013	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00013	01/31/20		Restek, Lot A0123890		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_00347	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00063	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00063	01/31/17	12/05/16	na, Lot na	1 mL	8260/624 Mega_00014	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00014	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_00347	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00063	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00063	01/31/17	12/05/16	na, Lot na	1 mL	8260/624 Mega_00014	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00014	01/31/17	Restek, Lot A0108166			(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_00416	11/08/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624MEGPT_00078	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Iodomethane	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00078	01/23/18	10/23/17	na, Lot na	1 mL	8260/624 Mega_00017	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00017	12/31/18		Restek, Lot A01237		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624STD2_00143	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260 MENAP PT_00007	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					8260PENTCLEPT_00008	80 uL	Pentachloroethane	100 ug/mL
.8260 MENAP PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 MENAPH_00001	1 mL	1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..8260 MENAPH_00001	12/31/17		Restek, Lot A0116084		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
.8260PENTCLEPT_00008	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 PENTACLE_00001	1 mL	Pentachloroethane	2500 ug/mL
..8260 PENTACLE_00001	12/31/17		Restek, Lot A0116076		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
8260ADDS 2016_00029	12/14/16	11/30/16	METHANOL, Lot 127999	2 mL	8260LIST2/6PT_00007	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00007	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
.8260LIST2/6PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00001	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260 LIST2/#6_00001	06/30/17		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.8260LIST2/7PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00001	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..8260 LIST2/#7_00001	06/30/17		Restek, Lot A0116077		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
8260CYCHXWK_00148	12/14/16	11/30/16	Water, Lot NA	2 mL	8260 CYCHX PT_00028	800 uL	Cyclohexanone	10000 ug/mL
.8260 CYCHX PT_00028	03/31/19		Restek, Lot A0118487		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
8260LOW IS/SS_00123	12/14/16	11/30/16	METHANOL, Lot 118655	20 mL	8260 IS/SS SK_00029	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00029	07/31/21		Restek, Lot A0120630		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260LOW IS/SS_00123	12/14/16	11/30/16	METHANOL, Lot 118655	20 mL	8260 IS/SS SK_00029	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00029	07/31/21		Restek, Lot A0120630		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260POLR ADDS_00104	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260POLRADDPT_00023	80 uL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.8260POLRADDPT_00023	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260POLARADDS_00006	1 mL	Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00006	10/31/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260POLR ADDS_00130	11/01/17	10/18/17	METHANOL, Lot 177891	2 mL	8260POLRADDPT_00029	80 uL	Isopropyl ether	100 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260POLRADDPT_00029	01/01/18	10/04/17	METHANOL, Lot NA	1 mL	8260POLARADDS_00007	1 mL	Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00007	12/31/18		Restek, Lot A0123796		(Purchased Reagent)		Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260VA/2CEVE_00241	12/12/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00048	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00040	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00048	02/28/17	12/05/16	METHANOL, Lot NA	1 mL	8260/624 VA_00021	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00021	02/28/17		Restek, Lot A0120810		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00040	03/05/17	12/05/16	METHANOL, Lot NA	1 mL	8260/624 CEVE_00010	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00010	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00297	11/01/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624 VAPT_00056	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00048	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00056	12/31/17	10/04/17	METHANOL, Lot NA	1 mL	8260/624 VA_00024	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00024	12/31/17		Restek, Lot A0128793		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00048	01/04/18	10/04/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
BFB STD WK_00128							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00037	25 uL	BFB	25 ug/mL
.BFB WK PT_00037	01/18/17	10/18/16	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
BFB STD WK_00166							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00043	25 uL	BFB	25 ug/mL
.BFB WK PT_00043	11/30/17	10/08/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
LEVEL1 8260_00003	12/31/17	07/06/15	1, Lot DH247	1 mL	8260/624STD_00001	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
.8260/624STD_00001	12/31/17	01/15/13	METHANOL, Lot DH247	2 mL	8260/624L1GAS_00001	100 uL	Vinyl chloride	100 ug/mL
					8260/624L1MEG_00001	100 uL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	100 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624L1GAS_00001	12/31/17		Restek, Lot A092242		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00001	12/31/17		Restek, Lot A092262		(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Toluene	2000 ug/mL
							Trichloroethene	2000 ug/mL
LO8260/624STD_00216	12/12/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624GASWK_00411	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00236	100 uL	2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							Methyl Ethyl Ketone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_00347	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromochloromethane	5 ug/mL
							Bromodichloromethane	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromochloromethane	5 ug/mL
							Dibromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	25 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							p-Isopropyltoluene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butyl alcohol	50 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00241	100 uL	Vinyl acetate	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_00411	12/12/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624GASPT_00076	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00076	03/05/17	12/05/16	na, Lot na	1 mL	8260/624 GAS_00013	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00013	10/31/18		Restek, Lot A0115012		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00236	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624KETPT_00041	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00041	03/05/17	12/05/16	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_00347	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00063	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00063	01/31/17	12/05/16	na, Lot na	1 mL	8260/624 Mega_00014	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00014	01/31/17	Restek, Lot A0108166			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00241	12/12/16	12/05/16	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00048	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00040	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
..8260/624 VAPT_00048	02/28/17	12/05/16	METHANOL, Lot NA	1 mL	8260/624 VA_00021	1 mL	Vinyl acetate	5000 ug/mL
...8260/624 VA_00021	02/28/17		Restek, Lot A0120810		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00040	03/05/17	12/05/16	METHANOL, Lot NA	1 mL	8260/624 CEVE_00010	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE_00010	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LO8260ADDS_00017	12/14/16	11/30/16	METHANOL, Lot 147462	1 mL	8260ADDS 2016_00029	50 uL	1,2,3-Trimethylbenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1-Chlorohexane	5 ug/mL
							2-Chloro-1,3-butadiene	5 ug/mL
							2-Nitropropane	10 ug/mL
							Benzyl chloride	5 ug/mL
							Isooctane	5 ug/mL
							Isopropyl alcohol	50 ug/mL
							Methacrylonitrile	50 ug/mL
							n-Butanol	125 ug/mL
							Ethyl acetate	10 ug/mL
							Ethyl acrylate	5 ug/mL
							Methyl methacrylate	10 ug/mL
							n-Butyl acetate	5 ug/mL
.8260ADDS 2016_00029	12/14/16	11/30/16	METHANOL, Lot 127999	2 mL	8260LIST2/6PT_00007	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00007	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8260LIST2/6PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00001	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
...8260 LIST2/#6_00001	06/30/17		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260LIST2/7PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00001	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
...8260 LIST2/#7_00001	06/30/17		Restek, Lot A0116077		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
LO8260POLRADD_00075	12/14/16	11/30/16	METHANOL, Lot 147462	1 mL	8260POLR ADDS_00104	50 uL	Acetonitrile	50 ug/mL
							Ethanol	200 ug/mL
							Isopropyl ether	5 ug/mL
							Propionitrile	50 ug/mL
							Tert-amyl methyl ether	5 ug/mL
							Tert-butyl ethyl ether	5 ug/mL
.8260POLR ADDS_00104	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260POLRADDPT_00023	80 uL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
..8260POLRADDPT_00023	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260POLARADDS_00006	1 mL	Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
...8260POLARADDS_00006	10/31/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
LOW2,3-DICP_00052	12/19/16	12/05/16	METHANOL, Lot 147462	1 mL	8260 23DCP WK_00076	50 uL	2,3-Dichloro-1-propene	5 ug/mL
.8260 23DCP WK_00076	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	8260 23DCP PT_00023	200 uL	2,3-Dichloro-1-propene	100 ug/mL
..8260 23DCP PT_00023	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN_00004	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
...2,3DICL1PRPEN_00004	03/15/19		ABSOLUTE STD, Lot 031516		(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
LOW2ETTOL STD_00008	12/19/16	12/05/16	METHANOL, Lot 147462	1 mL	2ETTOL WK STD_00015	50 uL	2-Ethyltoluene	5 ug/mL
.2ETTOL WK STD_00015	12/19/16	12/05/16	METHANOL, Lot 147462	2 mL	2ETTOL PT STD_00005	200 uL	2-Ethyltoluene	100 ug/mL
..2ETTOL PT STD_00005	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	2ETHYLTOL STD_00002	1 mL	2-Ethyltoluene	1000 ug/mL
...2ETHYLTOL STD_00002	07/01/21		ABSOLUTE STD, Lot 070116		(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
LOW8260ACR_00155	12/12/16	12/05/16	Water, Lot NA	1 mL	8260/624ACRWK_00299	50 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00299	12/12/16	12/05/16	Water, Lot NA	2 mL	8260/624ACRPT_00110	400 uL	Acrolein	4000 ug/mL
..8260/624ACRPT_00110	01/31/17	11/29/16	Water, Lot NA	1 mL	8260 ACROLEIN_00032	1 mL	Acrolein	20000 ug/mL
...8260 ACROLEIN_00032	01/31/17		Restek, Lot A0121648		(Purchased Reagent)		Acrolein	20000 ug/mL
LOW8260STD2_00133	12/14/16	11/30/16	METHANOL, Lot 147462	1 mL	8260/624STD2_00143	50 uL	1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Pentachloroethane	5 ug/mL
.8260/624STD2_00143	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260 MENAP PT_00007	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					8260PENTCLEPT_00008	80 uL	Pentachloroethane	100 ug/mL
..8260 MENAP PT_00007	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 MENAPH_00001	1 mL	1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
...8260 MENAPH_00001	12/31/17		Restek, Lot A0116084		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..8260PENTCLEPT_00008	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 PENTACLE_00001	1 mL	Pentachloroethane	2500 ug/mL
...8260 PENTACLE_00001	12/31/17		Restek, Lot A0116076		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
LOWCYCHXWK_00134	12/14/16	11/30/16	Water, Lot NA	1 mL	8260CYCHXWK_00148	50 uL	Cyclohexanone	500 ug/mL
.8260CYCHXWK_00148	12/14/16	11/30/16	Water, Lot NA	2 mL	8260 CYCHX PT_00028	800 uL	Cyclohexanone	10000 ug/mL
..8260 CYCHX PT_00028	03/31/19		Restek, Lot A0118487		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
POLRADDSSPK_00064	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	POLRADDSPKPT_00018	40 uL	Isopropyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.POLRADDSPKPT_00018	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	8260 PolarSPK_00005	1 mL	Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260 PolarSPK_00005	04/30/17		Restek, Lot A0110751		(Purchased Reagent)		Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
VA/2CEVE SPK_00106	12/14/16	11/30/16	METHANOL, Lot 147462	2 mL	8260 VASPKPT_00034	20 uL	Vinyl acetate	50 ug/mL
					8260CEVESPKPT_00023	40 uL	2-Chloroethyl vinyl ether	50 ug/mL
.8260 VASPKPT_00034	01/31/17	11/15/16	METHANOL, Lot NA	1 mL	VA SPK STK_00017	1 mL	Vinyl acetate	5000 ug/mL
..VA SPK STK_00017	01/31/17		Restek, Lot A0120342		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260CEVESPKPT_00023	02/15/17	11/15/16	METHANOL, Lot NA	1 mL	CEVE SPK STK_00008	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..CEVE SPK STK_00008	11/30/18	Restek, Lot A0115500			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
WCSTTC1_00122	11/09/17	Macron, Lot 0000123337			(Purchased Reagent)		TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
							Total Organic Carbon - Duplicates	2000 mg/L
WCSTTC2_00132	11/09/17	J.T Baker, Lot 0000123024			(Purchased Reagent)		TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
							Total Organic Carbon - Duplicates	2000 mg/L
WSTICCL1_00016	05/31/18	ERA, Lot 180516			(Purchased Reagent)		Chloride	1000 mg/L
WSTICCL1_00017	01/30/19	ERA, Lot 190117			(Purchased Reagent)		Chloride	1000 mg/L
WSTICCL2_00016	03/31/19	RICCA, Lot 1703J22			(Purchased Reagent)		Chloride	1000 mg/L
WSTICN031_00007	11/30/17	ERA, Lot 031115			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICNO32_00014	11/30/18	RICCA, Lot 2705D50			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICS1_00010	06/30/19	ERA, Lot 210617			(Purchased Reagent)		Sulfate	1000 mg/L
WSTICS2_00012	08/31/18	RICCA, Lot 2603747			(Purchased Reagent)		Sulfate	1000 mg/L
WSTSF1_00070	10/13/18	Na2Scrystal_3/1.5g, Lot 0.5MZnAcetat 34/20mL			(Purchased Reagent)		Sulfide	163.84 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SAICALSURR_00012	10/03/18	Matheson Trigas, Lot 109-46-10609			(Purchased Reagent)		1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18	Air Liquide-Scott Specialty gases, Lot 403-120156			(Purchased Reagent)		Ethane	12338 ug/L
							Ethylene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00008	10/08/18	Matheson Trigas, Lot 109-66-14469			(Purchased Reagent)		Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethylene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00009	09/27/18	MATHESON TRI-GAS INC., Lot 109-56-13136			(Purchased Reagent)		Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethylene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00010	11/22/17	Matheson Trigas, Lot 9302603973			(Purchased Reagent)		1,1,1-Trifluoroethane	11190 ug/L
vm150is_00060	11/01/17	09/01/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150is_00062	01/05/18	10/05/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150is_00064	01/23/18	10/23/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150ss_00006	12/06/17	07/06/17	MEOH, Lot +181520000147462JF	100 mL	VM567650_00026	6 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
.VM567650_00026	12/31/20	Restek, Lot A0115812			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vm150ss_00007	01/22/18	10/22/17	MEOH, Lot +191720000177891JR	50 mL	VM567650_00027	3 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
.VM567650_00027	07/31/21	Restek, Lot A0120212			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vm50ss_00299	10/10/17	10/03/17	MEOH, Lot na	4 mL	vm50ss_stk_00075	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
.vm50ss_stk_00075	03/08/18	09/08/17	MEOH, Lot 0000136118	200 mL	VM567650_00024	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
..VM567650_00024	07/31/20	Restek, Lot A0112455			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vmbfb_00018							Tentatively Identified Compound	
					vm30026_00001	1.25 mL	BFB	50 ug/mL
.vm30026_00001	03/31/20	restek, Lot A0109427			(Purchased Reagent)		BFB	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vmdiox_spike_00121	10/12/17	10/05/17	MEOH, Lot na	1 mL	VMSIMSTOSPIKE_00010	1 mL	1,4-Dioxane	50 ug/mL
.VMSIMSTOSPIKE_00010	02/01/18	08/01/17	MEOH, Lot +181520000147462JF	100 mL	VMNSIMIX2_00006	100 uL	1,4-Dioxane	50 ug/mL
..VMNSIMIX2_00006	06/30/18	NSI Soln, Inc., Lot 062217			(Purchased Reagent)		1,4-Dioxane	50000 ug/mL
vmdiox_spike_00123	10/30/17	10/23/17	MEOH, Lot na	1 mL	VMSIMSTOSPIKE_00010	1 mL	1,4-Dioxane	50 ug/mL
.VMSIMSTOSPIKE_00010	02/01/18	08/01/17	MEOH, Lot +181520000147462JF	100 mL	VMNSIMIX2_00006	100 uL	1,4-Dioxane	50 ug/mL
..VMNSIMIX2_00006	06/30/18	NSI Soln, Inc., Lot 062217			(Purchased Reagent)		1,4-Dioxane	50000 ug/mL
vmdioxanew_00108	10/12/17	10/05/17	MEOH, Lot na	1 mL	vmdioxane_00021	1 mL	1,4-Dioxane	100 ug/mL
.vmdioxane_00021	12/18/17	06/18/17	MEOH, Lot +181520000147462JF	50 mL	VM30287_00014	2.5 mL	1,4-Dioxane	100 ug/mL
..VM30287_00014	02/28/21	Restek, Lot A0117572			(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
vmdioxanew_00110	10/30/17	10/23/17	MEOH, Lot na	1 mL	vmdioxane_00021	1 mL	1,4-Dioxane	100 ug/mL
.vmdioxane_00021	12/18/17	06/18/17	MEOH, Lot +181520000147462JF	50 mL	VM30287_00014	2.5 mL	1,4-Dioxane	100 ug/mL
..VM30287_00014	02/28/21	Restek, Lot A0117572			(Purchased Reagent)		1,4-Dioxane	2000 ug/mL

Reagent

SARSK2NDSRCE_00010

Scott™

2357148
ID: SARSK2NDSRCE_00010
Exp:10/13/18 Prpd:BPM Opn:01/08/16
1%,20% varluos gases

Shipped From: 6141 Easton Road
Plumsteadville, PA 18949
Phone: 215-766-8860
Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA
TESTAMERICA-1
4101 Shuffel St NW
NORTH CANTON, OH 44720-6900
US

Sales Order # : 505422
P.O. #.: 2621142
Item No.: A0911317
Date: 14Oct2015

Cylinder #: ST0000153189
Fill Pressure: 240 PSIG
CGA: 600

Product Expiration: 13Oct2018
Lot #: 403-120156

Blend Type: CERTIFIED SCOTTY

Component Name	Requested Gas Conc (Moles)	Analysis (Mole)	Accuracy (+ / - %)
ACETYLENE	1.00 %	1.00 %	5
ETHANE	1.00 %	1.01 %	5
ETHYLENE	1.00 %	1.01 %	5
METHANE	1.00 %	0.990 %	5
PROPANE	1.00 %	0.998 %	5
HELIUM	BALANCE	BALANCE	

APPROVED BY: Lynn Matonis
Lynn Matonis

DATE: 12Oct2015

AIR LIQUIDE

Reagent

SARSKHIGHCALP_00008

MATHESON TRI-GAS INC
1650 Enterprise Pkwy
Twinsburg, OH 44087
1-215-648-4000

RCVD
10/14/16

CERTIFICATE OF ANALYSIS

Test America

Ref Po# 092916TB

17 LITER DISPOSABLE

LOT NUMBER: 109-66-14469

COMPONENT	CONCENTRATION	
ethane	1.00	%
propane	0.999	%
ethylene	0.999	%
acetylene	1.00	%
methane	1.00	%
helium	BAL	

ITEM NUMBER: GMT2690244TB

CGA: 600

PSIG: 240

FILL DATE: 10/07/16

EXPIRATION DATE: 10/08/18

Above are the results of the analysis you requested, as reported by our laboratory. Results are in mole percent, unless otherwise indicated. Mixture accuracy is ± 2%. NIST traceable by weights or gaseous standards.

Amanda Miller, Lab Technician

10/10/2016
DATE

Reagent

---

vm30026_00001

Rec: 8/20/25

VM30026-00001

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0109427

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,009.0 µg/mL	+/- 11.7899 +/- 22.7110 +/- 26.1178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM30287_00014

VM 30287_00014 Rec: 7/8/16 (10)

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30287 **Lot No.:** A0117572

Description : 1,4-Dioxane Standard

1,4-Dioxane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane	2,014.4 µg/mL	+/- 11.8216 µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBG1461V)		+/- 43.1585 µg/mL	Unstressed
	Purity 99%		+/- 44.4114 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00024

VM567650_00024

Rec: 9/16/15

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0112455

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,509.6 µg/mL	+/- 14.5910	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022012)		+/- 28.2993	µg/mL	Unstressed
	Purity 99%			+/- 32.5644	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,507.5 µg/mL	+/- 14.5788	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 14C-191)		+/- 28.2757	µg/mL	Unstressed
	Purity 99%			+/- 32.5371	µg/mL	Stressed
3	Toluene-d8		2,509.0 µg/mL	+/- 14.5875	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-26282)		+/- 28.2926	µg/mL	Unstressed
	Purity 99%			+/- 32.5566	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,506.0 µg/mL	+/- 14.5701	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 28.2587	µg/mL	Unstressed
	Purity 99%			+/- 32.5176	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00026

VM567650-00026

Rec: 1/26/16

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

33

Catalog No. : 567650 **Lot No.:** A0115812

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,503.1 µg/mL	+/- 14.5534 µg/mL +/- 140.3482 µg/mL +/- 143.6322 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 14C-191) **Purity** 99%	2,500.1 µg/mL	+/- 14.5360 µg/mL +/- 140.1800 µg/mL +/- 143.4600 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-26282) **Purity** 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL +/- 140.4529 µg/mL +/- 143.7393 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 140.2361 µg/mL +/- 143.5174 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00027

VM567650-00027 Rec: 4/10/17 (39)

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0120212

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 032015) **Purity** 99%	2,521.3 µg/mL	+/- 14.6591 µg/mL +/- 141.3668 µg/mL +/- 144.6746 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 14C-191) **Purity** 99%	2,523.7 µg/mL	+/- 14.6730 µg/mL +/- 141.5014 µg/mL +/- 144.8123 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-26623) **Purity** 99%	2,523.6 µg/mL	+/- 14.6724 µg/mL +/- 141.4957 µg/mL +/- 144.8066 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,510.9 µg/mL	+/- 14.5986 µg/mL +/- 140.7837 µg/mL +/- 144.0778 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568718_00008

VM568718_00008 Rec: 7/12/16

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0118105

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot I201P6) **Purity** 99%	5,023.8 µg/mL	+/- 29.2073 µg/mL +/- 107.5597 µg/mL +/- 110.6867 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 (Lot M276) **Purity** 99%	1,251.1 µg/mL	+/- 7.2740 µg/mL +/- 26.7862 µg/mL +/- 27.5649 µg/mL		Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	250.2 µg/mL	+/- 1.4578 µg/mL +/- 5.3567 µg/mL +/- 5.5123 µg/mL		Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot I-19239) **Purity** 99%	5,005.7 µg/mL	+/- 29.1020 µg/mL +/- 107.1722 µg/mL +/- 110.2879 µg/mL		Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	250.1 µg/mL	+/- 1.4575 µg/mL +/- 5.3556 µg/mL +/- 5.5112 µg/mL		Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	250.0 µg/mL	+/- 1.4566 µg/mL +/- 5.3524 µg/mL +/- 5.5079 µg/mL		Gravimetric Unstressed Stressed

Reagent

VMNSIMIX2_00006

nsi lab solutions
protect more. test more.
7212 ACC Blvd. | Raleigh, NC 27617 | 800.234.7837

Certificate of Analysis

8260 Extras Mix 2

Catalog Number: Q-3383
Lot Number: 062217
Manufacture Date: 06/22/17

Expiration: 06/30/2018
Solvent: Methanol/Water
Hazards: Irritant, Toxic

Analyte	CAS	Analyte Purity	Gravimetric Concentration (ug/mL)
Ethylene oxide	75-21-8	99.0%	25000.0 ± 176
Epichlorohydrin	106-89-8	99.9%	9998.2 ± 70
Propylene oxide	75-56-9	99.0%	10000.8 ± 71
1,4-Dioxane	123-91-1	100%	50001.9 ± 353

Packaging, Storage, Instructions For Use

This standard is packaged in a flame-sealed ampule and **must be stored at -15 to -30°C.** To use this standard, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

Method: This standard was verified gravimetrically.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our standards is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
OMW2D-GW-101917	500-136029-1	110	99	92	90
EIP-TB07-102017	500-136029-2	111	98	91	91
	MB 500-407027/6	107	97	91	89
	LCS 500-407027/7	103	90	93	87
OMW2D-GW-101917 MS	500-136029-1 MS	106	95	92	91
OMW2D-GW-101917 MSD	500-136029-1 MSD	105	94	93	91

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-126
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	72-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25S1026A.d

Lab ID: LCS 500-407027/7 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	0.0500	0.0508	102	70-125	
1,1,1-Trichloroethane	0.0500	0.0474	95	70-125	
1,1,2,2-Tetrachloroethane	0.0500	0.0437	87	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0503	101	70-123	
1,1,2-Trichloroethane	0.0500	0.0462	92	70-122	
1,1-Dichloroethane	0.0500	0.0448	90	70-125	
1,1-Dichloroethene	0.0500	0.0476	95	67-122	
1,1-Dichloropropene	0.0500	0.0454	91	70-121	
1,2,3-Trichlorobenzene	0.0500	0.0426	85	55-140	
1,2,3-Trichloropropane	0.0500	0.0389	78	50-133	
1,2,4-Trichlorobenzene	0.0500	0.0400	80	66-127	
1,2,4-Trimethylbenzene	0.0500	0.0451	90	70-123	
1,2-Dibromo-3-Chloropropane	0.0500	0.0382	76	56-123	
1,2-Dibromoethane	0.0500	0.0476	95	70-125	
1,2-Dichlorobenzene	0.0500	0.0466	93	70-125	
1,2-Dichloroethane	0.0500	0.0432	86	68-127	
1,2-Dichloropropane	0.0500	0.0470	94	67-130	
1,3,5-Trimethylbenzene	0.0500	0.0448	90	70-123	
1,3-Dichlorobenzene	0.0500	0.0473	95	70-125	
1,3-Dichloropropane	0.0500	0.0434	87	62-136	
1,4-Dichlorobenzene	0.0500	0.0474	95	70-120	
1,4-Dioxane	1.00	0.979	98	70-129	
2,2-Dichloropropane	0.0500	0.0404	81	58-129	
2-Chloroethyl vinyl ether	0.0500	0.0352	70	52-136	
2-Chlorotoluene	0.0500	0.0449	90	70-125	
2-Hexanone	0.0500	0.0304	61	56-135	
4-Chlorotoluene	0.0500	0.0446	89	68-124	
Acetone	0.0500	0.0337	67	40-143	
Acrolein	2.00	1.07	54	40-150	
Acrylonitrile	0.500	0.406	81	67-140	
Benzene	0.0500	0.0437	87	70-120	
Bromobenzene	0.0500	0.0467	93	70-122	
Bromochloromethane	0.0500	0.0513	103	65-122	
Bromodichloromethane	0.0500	0.0470	94	69-120	
Bromoform	0.0500	0.0516	103	56-132	
Bromomethane	0.0500	0.0722	144	40-130	*
Carbon disulfide	0.0500	0.0437	87	66-120	
Carbon tetrachloride	0.0500	0.0510	102	65-122	
Chlorobenzene	0.0500	0.0476	95	70-120	
Chloroethane	0.0500	0.0465	93	45-127	
Chloroform	0.0500	0.0459	92	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25S1026A.d

Lab ID: LCS 500-407027/7 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	0.0500	0.0304	61	54-147	
cis-1,2-Dichloroethene	0.0500	0.0455	91	70-125	
cis-1,3-Dichloropropene	0.0500	0.0399	80	64-127	
Cyclohexane	0.0500	0.0440	88	69-142	
Dibromochloromethane	0.0500	0.0503	101	68-125	
Dibromomethane	0.0500	0.0474	95	70-120	
Dichlorodifluoromethane	0.0500	0.0391	78	40-150	
Ethylbenzene	0.0500	0.0453	91	70-120	
Iodomethane	0.0500	0.0473	95	61-136	
Isopropylbenzene	0.0500	0.0460	92	70-126	
Methyl acetate	0.100	0.0665	67	56-150	
Methyl Ethyl Ketone	0.0500	0.0347	69	53-141	
methyl isobutyl ketone	0.0500	0.0306	61	56-133	
Methyl tert-butyl ether	0.0500	0.0341	68	70-120	*
Methylcyclohexane	0.0500	0.0446	89	70-120	
Methylene Chloride	0.0500	0.0439	88	69-125	
Naphthalene	0.0500	0.0387	77	59-130	
n-Butylbenzene	0.0500	0.0442	88	68-125	
N-Propylbenzene	0.0500	0.0446	89	69-127	
p-Isopropyltoluene	0.0500	0.0461	92	70-125	
sec-Butylbenzene	0.0500	0.0454	91	70-123	
Styrene	0.0500	0.0462	92	70-120	
tert-Butyl alcohol	0.500	0.423	85	70-125	
tert-Butylbenzene	0.0500	0.0460	92	70-121	
Tetrachloroethene	0.0500	0.0467	93	70-128	
Toluene	0.0500	0.0420	84	70-125	
trans-1,2-Dichloroethene	0.0500	0.0472	94	70-125	
trans-1,3-Dichloropropene	0.0500	0.0416	83	62-128	
trans-1,4-Dichloro-2-butene	0.0500	0.0345	69	60-130	
Trichloroethene	0.0500	0.0516	103	70-125	
Trichlorofluoromethane	0.0500	0.0523	105	70-126	
Vinyl acetate	0.0500	0.0303	61	43-133	
Vinyl chloride	0.0500	0.0500	100	64-126	
Xylenes, Total	0.100	0.0859	86	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 136029-1MS.d

Lab ID: 500-136029-1 MS Client ID: OMW2D-GW-101917 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	0.0500	ND	0.0563	113	70-125	
1,1,1-Trichloroethane	0.0500	ND	0.0512	102	70-125	
1,1,2,2-Tetrachloroethane	0.0500	ND	0.0492	98	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	ND	0.0543	109	70-123	
1,1,2-Trichloroethane	0.0500	ND	0.0507	101	70-122	
1,1-Dichloroethane	0.0500	ND	0.0486	97	70-125	
1,1-Dichloroethene	0.0500	ND	0.0497	99	67-122	
1,1-Dichloropropene	0.0500	ND	0.0480	96	70-121	
1,2,3-Trichlorobenzene	0.0500	ND	0.0470	94	55-140	
1,2,3-Trichloropropane	0.0500	ND	0.0439	88	50-133	
1,2,4-Trichlorobenzene	0.0500	ND	0.0425	85	66-127	
1,2,4-Trimethylbenzene	0.0500	ND	0.0497	99	70-123	
1,2-Dibromo-3-Chloropropane	0.0500	ND	0.0444	89	56-123	
1,2-Dibromoethane	0.0500	ND	0.0522	104	70-125	
1,2-Dichlorobenzene	0.0500	ND	0.0524	105	70-125	
1,2-Dichloroethane	0.0500	ND	0.0478	96	68-127	
1,2-Dichloropropane	0.0500	ND	0.0508	102	67-130	
1,3,5-Trimethylbenzene	0.0500	ND	0.0488	98	70-123	
1,3-Dichlorobenzene	0.0500	ND	0.0519	104	70-125	
1,3-Dichloropropane	0.0500	ND	0.0476	95	62-136	
1,4-Dichlorobenzene	0.0500	ND	0.0520	104	70-120	
1,4-Dioxane	1.00	ND	0.998	100	70-129	
2,2-Dichloropropane	0.0500	ND	0.0432	86	58-129	
2-Chloroethyl vinyl ether	0.0500	ND	ND	0	52-136	F1
2-Chlorotoluene	0.0500	ND	0.0493	99	70-125	
2-Hexanone	0.0500	ND	0.0295	59	56-135	
4-Chlorotoluene	0.0500	ND	0.0491	98	68-124	
Acetone	0.0500	ND	0.0309	62	40-143	
Acrolein	2.00	ND	1.17	58	40-150	
Acrylonitrile	0.500	ND	0.440	88	67-140	
Benzene	0.0500	ND	0.0479	96	70-120	
Bromobenzene	0.0500	ND	0.0527	105	70-122	
Bromochloromethane	0.0500	ND	0.0561	112	65-122	
Bromodichloromethane	0.0500	0.0010	0.0543	107	69-120	
Bromoform	0.0500	ND	0.0567	113	56-132	
Bromomethane	0.0500	ND	0.0685	137	40-130	F1
Carbon disulfide	0.0500	ND	0.0462	92	66-120	
Carbon tetrachloride	0.0500	ND	0.0555	111	65-122	
Chlorobenzene	0.0500	ND	0.0514	103	70-120	
Chloroethane	0.0500	ND	0.0432	86	45-127	
Chloroform	0.0500	0.0022	0.0527	101	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 136029-1MS.d

Lab ID: 500-136029-1 MS Client ID: OMW2D-GW-101917 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloromethane	0.0500	ND	0.0312	62	54-147	
cis-1,2-Dichloroethene	0.0500	ND	0.0509	102	70-125	
cis-1,3-Dichloropropene	0.0500	ND	0.0425	85	64-127	
Cyclohexane	0.0500	ND	0.0463	93	69-142	
Dibromochloromethane	0.0500	ND	0.0576	115	68-125	
Dibromomethane	0.0500	ND	0.0530	106	70-120	
Dichlorodifluoromethane	0.0500	ND	0.0351	70	40-150	
Ethylbenzene	0.0500	ND	0.0485	97	70-120	
Iodomethane	0.0500	ND	0.0462	92	61-136	
Isopropylbenzene	0.0500	ND	0.0511	102	70-126	
Methyl acetate	0.100	ND	0.0698	70	56-150	
Methyl Ethyl Ketone	0.0500	ND	0.0290	58	53-141	
methyl isobutyl ketone	0.0500	ND	0.0283	57	56-133	
Methyl tert-butyl ether	0.0500	ND	0.0378	76	70-120	
Methylcyclohexane	0.0500	ND	0.0474	95	70-120	
Methylene Chloride	0.0500	ND	0.0482	96	69-125	
Naphthalene	0.0500	ND	0.0439	88	59-130	
n-Butylbenzene	0.0500	ND	0.0468	94	68-125	
N-Propylbenzene	0.0500	ND	0.0489	98	69-127	
p-Isopropyltoluene	0.0500	ND	0.0518	104	70-125	
sec-Butylbenzene	0.0500	ND	0.0504	101	70-123	
Styrene	0.0500	ND	0.0495	99	70-120	
tert-Butyl alcohol	0.500	ND	0.549	110	70-125	
tert-Butylbenzene	0.0500	ND	0.0506	101	70-121	
Tetrachloroethene	0.0500	ND	0.0505	101	70-128	
Toluene	0.0500	0.00057	0.0460	91	70-125	
trans-1,2-Dichloroethene	0.0500	ND	0.0499	100	70-125	
trans-1,3-Dichloropropene	0.0500	ND	0.0449	90	62-128	
trans-1,4-Dichloro-2-butene	0.0500	ND	0.0389	78	60-130	
Trichloroethene	0.0500	ND	0.0554	111	70-125	
Trichlorofluoromethane	0.0500	ND	0.0483	97	70-126	
Vinyl acetate	0.0500	ND	0.0308	62	43-133	
Vinyl chloride	0.0500	ND	0.0454	91	64-126	
Xylenes, Total	0.100	ND	0.0933	93	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 136029-1MSD.d

Lab ID: 500-136029-1 MSD Client ID: OMW2D-GW-101917 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	0.0500	0.0533	107	5	20	70-125	
1,1,1-Trichloroethane	0.0500	0.0504	101	2	20	70-125	
1,1,2,2-Tetrachloroethane	0.0500	0.0484	97	2	20	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0526	105	3	20	70-123	
1,1,2-Trichloroethane	0.0500	0.0479	96	6	20	70-122	
1,1-Dichloroethane	0.0500	0.0471	94	3	20	70-125	
1,1-Dichloroethene	0.0500	0.0476	95	4	20	67-122	
1,1-Dichloropropene	0.0500	0.0476	95	1	20	70-121	
1,2,3-Trichlorobenzene	0.0500	0.0463	93	1	20	55-140	
1,2,3-Trichloropropane	0.0500	0.0418	84	5	20	50-133	
1,2,4-Trichlorobenzene	0.0500	0.0429	86	1	20	66-127	
1,2,4-Trimethylbenzene	0.0500	0.0487	97	2	20	70-123	
1,2-Dibromo-3-Chloropropane	0.0500	0.0443	89	0	20	56-123	
1,2-Dibromoethane	0.0500	0.0509	102	3	20	70-125	
1,2-Dichlorobenzene	0.0500	0.0506	101	3	20	70-125	
1,2-Dichloroethane	0.0500	0.0459	92	4	20	68-127	
1,2-Dichloropropane	0.0500	0.0484	97	5	20	67-130	
1,3,5-Trimethylbenzene	0.0500	0.0477	95	2	20	70-123	
1,3-Dichlorobenzene	0.0500	0.0511	102	2	20	70-125	
1,3-Dichloropropane	0.0500	0.0474	95	0	20	62-136	
1,4-Dichlorobenzene	0.0500	0.0509	102	2	20	70-120	
1,4-Dioxane	1.00	1.04	104	4	20	70-129	
2,2-Dichloropropane	0.0500	0.0425	85	2	20	58-129	
2-Chloroethyl vinyl ether	0.0500	ND	0	NC	20	52-136	F1
2-Chlorotoluene	0.0500	0.0483	97	2	20	70-125	
2-Hexanone	0.0500	0.0320	64	8	20	56-135	
4-Chlorotoluene	0.0500	0.0473	95	4	20	68-124	
Acetone	0.0500	0.0322	64	4	20	40-143	
Acrolein	2.00	1.20	60	3	20	40-150	
Acrylonitrile	0.500	0.423	85	4	20	67-140	
Benzene	0.0500	0.0462	92	4	20	70-120	
Bromobenzene	0.0500	0.0508	102	4	20	70-122	
Bromochloromethane	0.0500	0.0539	108	4	20	65-122	
Bromodichloromethane	0.0500	0.0510	100	6	20	69-120	
Bromoform	0.0500	0.0540	108	5	20	56-132	
Bromomethane	0.0500	0.0706	141	3	20	40-130	F1
Carbon disulfide	0.0500	0.0455	91	2	20	66-120	
Carbon tetrachloride	0.0500	0.0543	109	2	20	65-122	
Chlorobenzene	0.0500	0.0496	99	3	20	70-120	
Chloroethane	0.0500	0.0450	90	4	20	45-127	
Chloroform	0.0500	0.0515	99	2	20	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 136029-1MSD.d

Lab ID: 500-136029-1 MSD Client ID: OMW2D-GW-101917 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	0.0500	0.0336	67	7	20	54-147	
cis-1,2-Dichloroethene	0.0500	0.0502	100	1	20	70-125	
cis-1,3-Dichloropropene	0.0500	0.0415	83	2	20	64-127	
Cyclohexane	0.0500	0.0455	91	2	20	69-142	
Dibromochloromethane	0.0500	0.0544	109	6	20	68-125	
Dibromomethane	0.0500	0.0522	104	1	20	70-120	
Dichlorodifluoromethane	0.0500	0.0368	74	4	20	40-150	
Ethylbenzene	0.0500	0.0474	95	2	20	70-120	
Iodomethane	0.0500	0.0483	97	4	20	61-136	
Isopropylbenzene	0.0500	0.0495	99	3	20	70-126	
Methyl acetate	0.100	0.0685	68	2	20	56-150	
Methyl Ethyl Ketone	0.0500	0.0387	77	29	20	53-141	F2
methyl isobutyl ketone	0.0500	0.0331	66	16	20	56-133	
Methyl tert-butyl ether	0.0500	0.0359	72	5	20	70-120	
Methylcyclohexane	0.0500	0.0459	92	3	20	70-120	
Methylene Chloride	0.0500	0.0471	94	2	20	69-125	
Naphthalene	0.0500	0.0437	87	1	20	59-130	
n-Butylbenzene	0.0500	0.0462	92	1	20	68-125	
N-Propylbenzene	0.0500	0.0478	96	2	20	69-127	
p-Isopropyltoluene	0.0500	0.0509	102	2	20	70-125	
sec-Butylbenzene	0.0500	0.0489	98	3	20	70-123	
Styrene	0.0500	0.0484	97	2	20	70-120	
tert-Butyl alcohol	0.500	0.526	105	4	20	70-125	
tert-Butylbenzene	0.0500	0.0494	99	2	20	70-121	
Tetrachloroethene	0.0500	0.0484	97	4	20	70-128	
Toluene	0.0500	0.0448	89	2	20	70-125	
trans-1,2-Dichloroethene	0.0500	0.0490	98	2	20	70-125	
trans-1,3-Dichloropropene	0.0500	0.0437	87	3	20	62-128	
trans-1,4-Dichloro-2-butene	0.0500	0.0361	72	7	20	60-130	
Trichloroethene	0.0500	0.0537	107	3	20	70-125	
Trichlorofluoromethane	0.0500	0.0497	99	3	20	70-126	
Vinyl acetate	0.0500	0.0325	65	5	20	43-133	
Vinyl chloride	0.0500	0.0476	95	5	20	64-126	
Xylenes, Total	0.100	0.0906	91	3	20	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab File ID: 25M1026.d Lab Sample ID: MB 500-407027/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CMS25 Date Analyzed: 10/26/2017 11:47

GC Column: DB624 ID: 0.2(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-407027/7	25S1026A.d	10/26/2017 12:17
OMW2D-GW-101917	500-136029-1	136029-1.d	10/26/2017 18:15
EIP-TB07-102017	500-136029-2	136029-2.d	10/26/2017 18:45
OMW2D-GW-101917 MS	500-136029-1 MS	136029-1MS.d	10/26/2017 19:15
OMW2D-GW-101917 MSD	500-136029-1 MSD	136029-1MSD.d	10/26/2017 19:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab File ID: 25B1205.d BFB Injection Date: 12/05/2016

Instrument ID: CMS25 BFB Injection Time: 14:57

Analysis Batch No.: 363659

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	26.0
75	30.0 - 60.0 % of mass 95	45.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	1.5 (1.7) 1
174	50.0 - 120.00 % of mass 95	85.5
175	5.0 - 9.0 % of mass 174	6.5 (7.6) 1
176	95.0 - 101.0 % of mass 174	81.9 (95.9) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-363659/2	25I1205A.d	12/05/2016	15:34
	STD02 500-363659/3	25I1205B.d	12/05/2016	16:02
	STD04 500-363659/5	25I1205D.d	12/05/2016	16:57
	STD05 500-363659/6	25I1205E.d	12/05/2016	17:25
	STD06 500-363659/7	25I1205F.d	12/05/2016	17:53
	STD07 500-363659/8	25I1205G.d	12/05/2016	18:20
	STD08 500-363659/9	25I1205H.d	12/05/2016	18:48
	STD09 500-363659/10	25I1205I.d	12/05/2016	19:16
	STD10 500-363659/11	25I1205J.d	12/05/2016	19:44
	STD03AP 500-363659/13	25J1205C.d	12/05/2016	20:39
	STD04AP 500-363659/14	25J1205D.d	12/05/2016	21:07
	STD05AP 500-363659/15	25J1205E.d	12/05/2016	21:35
	STD06AP 500-363659/16	25J1205F.d	12/05/2016	22:58
	STD07AP 500-363659/17	25J1205G.d	12/05/2016	23:26
	STD08AP 500-363659/18	25J1205H.d	12/05/2016	23:54
	STD09AP 500-363659/19	25J1205I.d	12/06/2016	00:21
	STD10AP 500-363659/20	25J1205J.d	12/06/2016	00:49
	STD03 500-363659/27	25I1205C2.d	12/06/2016	01:45
	ICV 500-363659/22	25S1205ICV1.d	12/06/2016	02:13
	ICV 500-363659/23	24S1205ICV2.d	12/06/2016	02:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab File ID: 25B1026.d BFB Injection Date: 10/26/2017

Instrument ID: CMS25 BFB Injection Time: 09:05

Analysis Batch No.: 407027

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	42.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	1.6	(1.7) 1
174	50.0 - 120.00 % of mass 95	96.5	
175	5.0 - 9.0 % of mass 174	7.1	(7.4) 1
176	95.0 - 101.0 % of mass 174	92.8	(96.1) 1
177	5.0 - 9.0 % of mass 176	6.9	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 500-407027/3	25D1026.d	10/26/2017	10:05
	CCVIS 500-407027/4	25S1026.d	10/26/2017	10:35
	MB 500-407027/6	25M1026.d	10/26/2017	11:47
	LCS 500-407027/7	25S1026A.d	10/26/2017	12:17
OMW2D-GW-101917	500-136029-1	136029-1.d	10/26/2017	18:15
EIP-TB07-102017	500-136029-2	136029-2.d	10/26/2017	18:45
OMW2D-GW-101917 MS	500-136029-1 MS	136029-1MS.d	10/26/2017	19:15
OMW2D-GW-101917 MSD	500-136029-1 MSD	136029-1MSD.d	10/26/2017	19:45

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Sample No.: STD07 500-363659/8 Date Analyzed: 12/05/2016 18:20

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 25I1205G.d Heated Purge: (Y/N) N

Calibration ID: 23749

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		85534	3.55	601588	5.94	10456	6.64
UPPER LIMIT		171068	4.05	1203176	6.44	20912	7.14
LOWER LIMIT		42767	3.05	300794	5.44	5228	6.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-363659/22		88981	3.55	593567	5.94	10481	6.64
ICV 500-363659/23		80946	3.55	561541	5.94	8995	6.64
CCV 500-407027/3		61873	3.49	687430	5.88	10312	6.57
CCVIS 500-407027/4		59180	3.50	628042	5.88	10872	6.57
MB 500-407027/6		66450	3.49	650408	5.88	10351	6.58
LCS 500-407027/7		68622	3.49	682185	5.88	11511	6.57
500-136029-1	OMW2D-GW-101917	51867	3.49	549243	5.88	8139	6.58
500-136029-2	EIP-TB07-102017	55000	3.49	527552	5.88	8545	6.57
500-136029-1 MS	OMW2D-GW-101917 MS	60616	3.49	642974	5.88	10933	6.57
500-136029-1 MSD	OMW2D-GW-101917 MSD	60202	3.49	631368	5.88	10854	6.57

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Sample No.: STD07 500-363659/8 Date Analyzed: 12/05/2016 18:20

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 25I1205G.d Heated Purge: (Y/N) N

Calibration ID: 23749

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		445564	9.17	225932	11.91		
UPPER LIMIT		891128	9.67	451864	12.41		
LOWER LIMIT		222782	8.67	112966	11.41		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-363659/22		453257	9.17	228300	11.91		
ICV 500-363659/23		416410	9.17	207917	11.91		
CCV 500-407027/3		512809	9.11	244161	11.84		
CCVIS 500-407027/4		469795	9.11	239617	11.84		
MB 500-407027/6		509476	9.11	240390	11.85		
LCS 500-407027/7		512550	9.11	261138	11.84		
500-136029-1	OMW2D-GW-101917	427657	9.11	194693	11.84		
500-136029-2	EIP-TB07-102017	414017	9.11	189075	11.84		
500-136029-1 MS	OMW2D-GW-101917 MS	484413	9.11	241311	11.84		
500-136029-1 MSD	OMW2D-GW-101917 MSD	475549	9.11	235099	11.84		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Sample No.: CCVIS 500-407027/4 Date Analyzed: 10/26/2017 10:35

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 25S1026.d Heated Purge: (Y/N) N

Calibration ID: 23752

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		59180	3.50	628042	5.88	10872	6.57
UPPER LIMIT		118360	4.00	1256084	6.38	21744	7.07
LOWER LIMIT		29590	3.00	314021	5.38	5436	6.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 500-407027/6		66450	3.49	650408	5.88	10351	6.58
LCS 500-407027/7		68622	3.49	682185	5.88	11511	6.57
500-136029-1	OMW2D-GW-101917	51867	3.49	549243	5.88	8139	6.58
500-136029-2	EIP-TB07-102017	55000	3.49	527552	5.88	8545	6.57
500-136029-1 MS	OMW2D-GW-101917 MS	60616	3.49	642974	5.88	10933	6.57
500-136029-1 MSD	OMW2D-GW-101917 MSD	60202	3.49	631368	5.88	10854	6.57

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Sample No.: CCVIS 500-407027/4 Date Analyzed: 10/26/2017 10:35

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 25S1026.d Heated Purge: (Y/N) N

Calibration ID: 23752

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		469795	9.11	239617	11.84		
UPPER LIMIT		939590	9.61	479234	12.34		
LOWER LIMIT		234898	8.61	119809	11.34		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 500-407027/6		509476	9.11	240390	11.85		
LCS 500-407027/7		512550	9.11	261138	11.84		
500-136029-1	OMW2D-GW-101917	427657	9.11	194693	11.84		
500-136029-2	EIP-TB07-102017	414017	9.11	189075	11.84		
500-136029-1 MS	OMW2D-GW-101917 MS	484413	9.11	241311	11.84		
500-136029-1 MSD	OMW2D-GW-101917 MSD	475549	9.11	235099	11.84		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917 | Lab Sample ID: 500-136029-1
Matrix: Water | Lab File ID: 136029-1.d
Analysis Method: 8260B | Date Collected: 10/19/2017 16:04
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 18:15
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND	F1	0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	0.0010		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917 | Lab Sample ID: 500-136029-1
Matrix: Water | Lab File ID: 136029-1.d
Analysis Method: 8260B | Date Collected: 10/19/2017 16:04
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 18:15
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	F1 *	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	0.0022		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND	F2	0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND	*	0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	ND		0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	0.00057		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917
Lab Sample ID: 500-136029-1
Matrix: Water
Lab File ID: 136029-1.d
Analysis Method: 8260B
Date Collected: 10/19/2017 16:04
Sample wt/vol: 5(mL)
Date Analyzed: 10/26/2017 18:15
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 407027
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-126
460-00-4	4-Bromofluorobenzene (Surr)	90		72-124
1868-53-7	Dibromofluoromethane	110		75-120
2037-26-5	Toluene-d8 (Surr)	92		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Lims ID:	500-136029-G-1				
Client ID:	OMW2D-GW-101917				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 18:15:30	ALS Bottle#:	19	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-g-1				
Misc. Info.:	500-0048625-022				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Last Update:	27-Oct-2017 07:48:39	Calib Date:	06-Dec-2016 01:45:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d		

Column 1 : Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:48:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.486	3.497	-0.011	0	51867	1000.0	
41 Chloroform	83	5.044	5.043	0.001	73	10842	2.17	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	59	158825	55.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.542	5.542	0.000	0	128835	49.7	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	99	549243	50.0	
* 61 1,4-Dioxane-d8	96	6.575	6.574	0.000	0	8139	1000.0	
65 Dichlorobromomethane	83	6.774	6.768	0.006	50	3481	1.04	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	519301	45.9	
71 Toluene	92	7.592	7.592	0.000	66	4410	0.5705	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	80	427657	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	95	159502	45.2	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	194693	50.0	

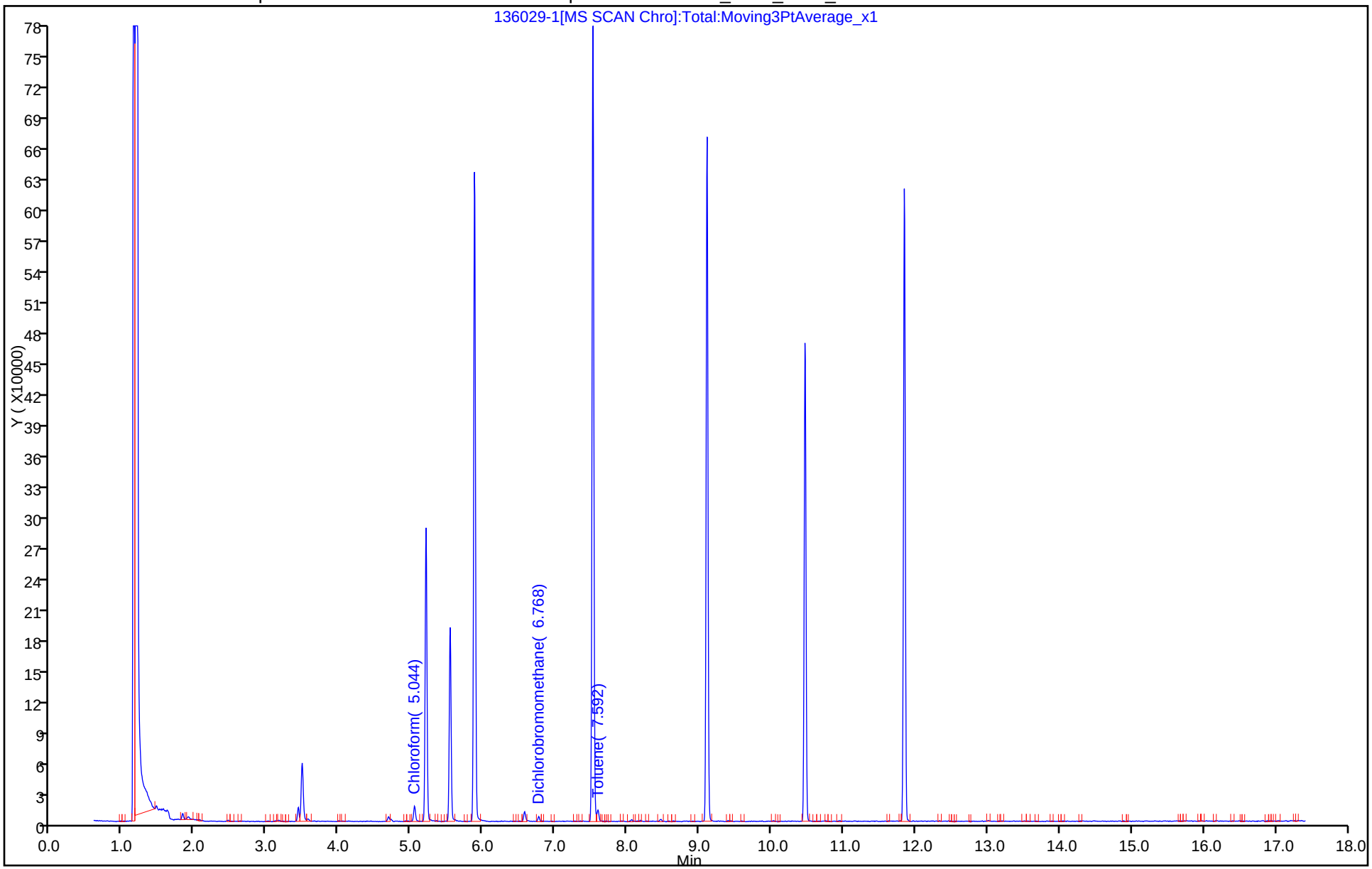
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 07:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Injection Date:	26-Oct-2017 18:15:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	500-136029-G-1	Lab Sample ID:	500-136029-1	Worklist Smp#:	22
Client ID:	OMW2D-GW-101917				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Lims ID:	500-136029-G-1				
Client ID:	OMW2D-GW-101917				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 18:15:30	ALS Bottle#:	19	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-g-1				
Misc. Info.:	500-0048625-022				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Last Update:	27-Oct-2017 07:48:39	Calib Date:	06-Dec-2016 01:45:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d		

Column 1 :			Det: MS SCAN
Process Host:	XAWRK019		

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:48:39

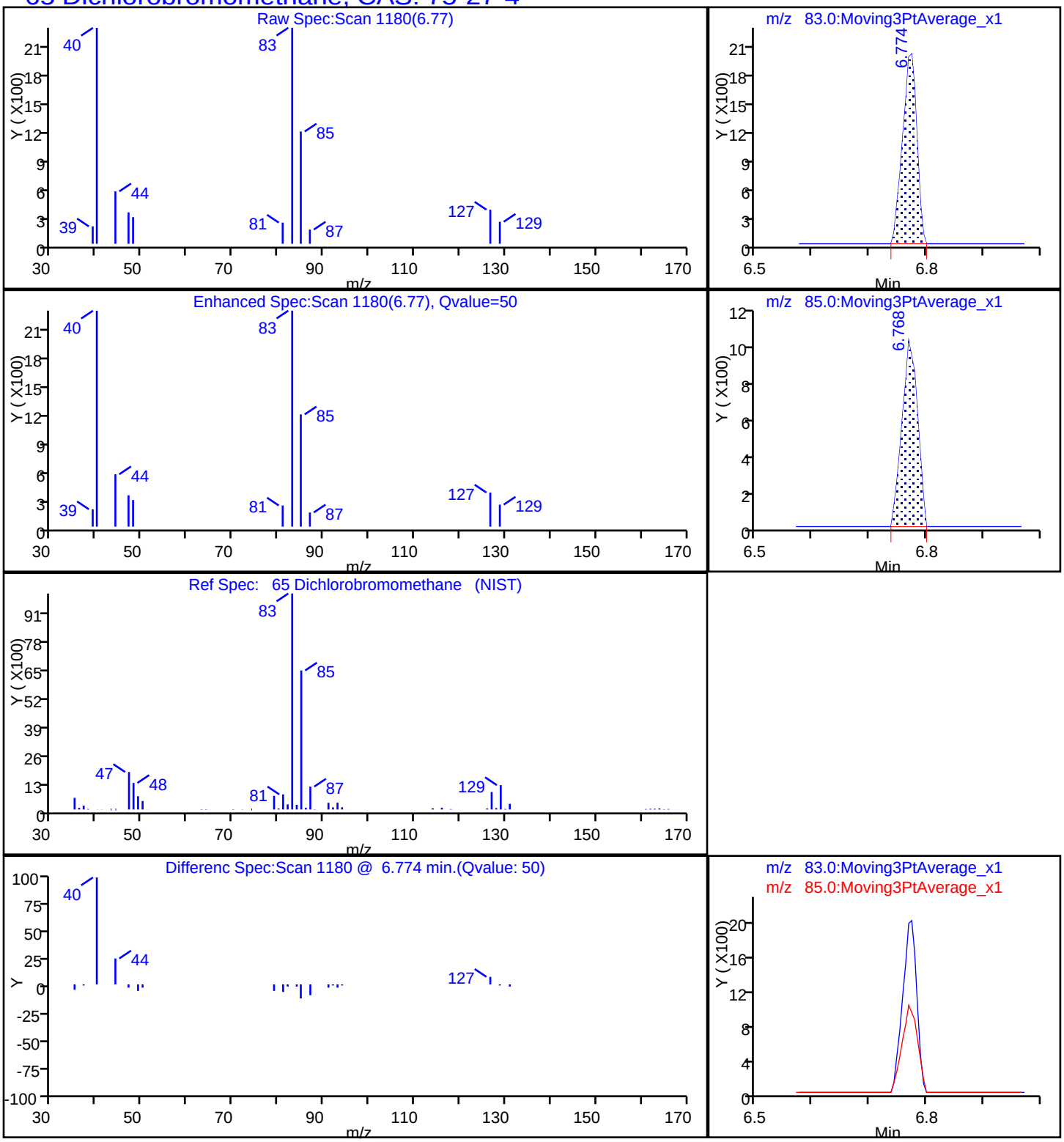
Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	55.2	110.44
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	49.7	99.50
$ 70 Toluene-d8 (Surr)	50.0	45.9	91.82
$ 92 4-Bromofluorobenzene (Surr)	50.0	45.2	90.36

Report Date: 27-Oct-2017 07:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Injection Date:	26-Oct-2017 18:15:30	Instrument ID:	CMS25		
Lims ID:	500-136029-G-1	Lab Sample ID:	500-136029-1		
Client ID:	OMW2D-GW-101917				
Operator ID:	JH	ALS Bottle#:	19	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

65 Dichlorobromomethane, CAS: 75-27-4

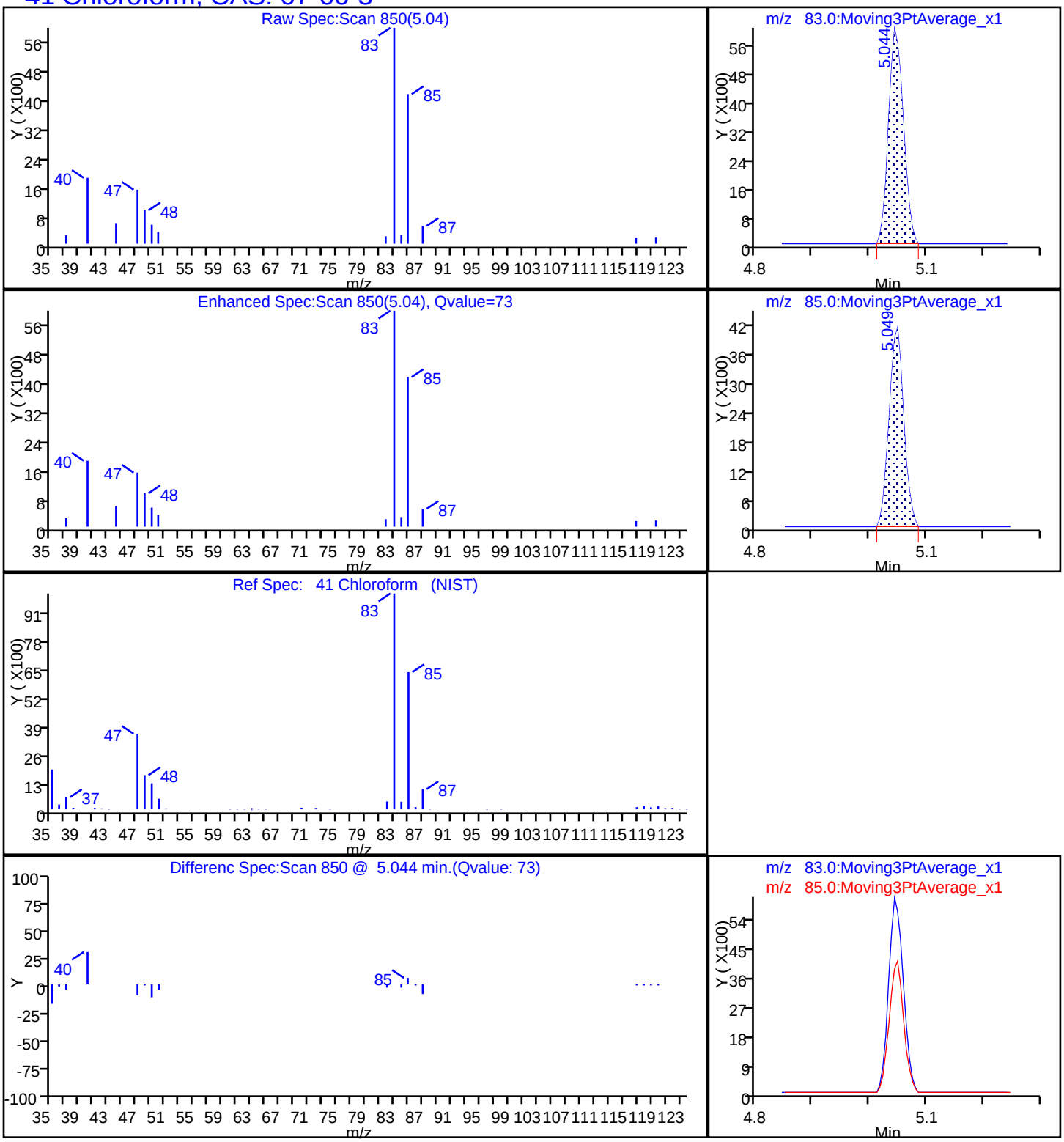


Report Date: 27-Oct-2017 07:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Injection Date:	26-Oct-2017 18:15:30	Instrument ID:	CMS25		
Lims ID:	500-136029-G-1	Lab Sample ID:	500-136029-1		
Client ID:	OMW2D-GW-101917				
Operator ID:	JH	ALS Bottle#:	19	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3

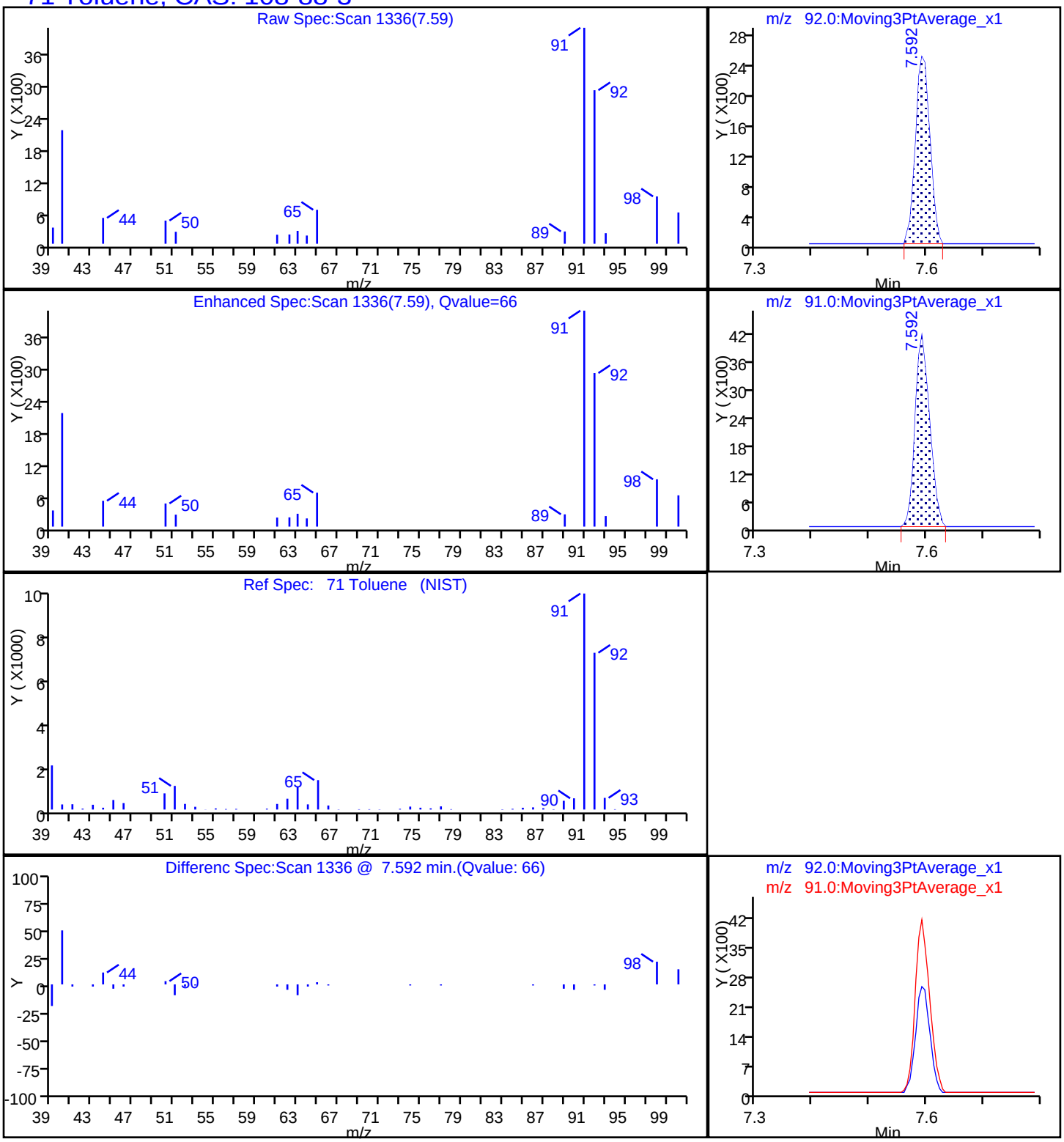


Report Date: 27-Oct-2017 07:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1.d				
Injection Date:	26-Oct-2017 18:15:30	Instrument ID:	CMS25		
Lims ID:	500-136029-G-1	Lab Sample ID:	500-136029-1		
Client ID:	OMW2D-GW-101917				
Operator ID:	JH	ALS Bottle#:	19	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

71 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: EIP-TB07-102017 | Lab Sample ID: 500-136029-2
Matrix: Water | Lab File ID: 136029-2.d
Analysis Method: 8260B | Date Collected: 10/19/2017 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 18:45
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	ND		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: EIP-TB07-102017 | Lab Sample ID: 500-136029-2
Matrix: Water | Lab File ID: 136029-2.d
Analysis Method: 8260B | Date Collected: 10/19/2017 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 18:45
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	*	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	ND		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND	*	0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	ND		0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	ND		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: EIP-TB07-102017 | Lab Sample ID: 500-136029-2

Matrix: Water | Lab File ID: 136029-2.d

Analysis Method: 8260B | Date Collected: 10/19/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 18:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-124
1868-53-7	Dibromofluoromethane	111		75-120
2037-26-5	Toluene-d8 (Surr)	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-2.d				
Lims ID:	500-136029-A-2				
Client ID:	EIP-TB07-102017				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 18:45:30	ALS Bottle#:	20	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-a-2				
Misc. Info.:	500-0048625-023				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Last Update:	27-Oct-2017 07:49:12	Calib Date:	06-Dec-2016 01:45:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK019				

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:49:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.486	3.497	-0.011	0	55000	1000.0	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	59	153656	55.6	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.541	5.542	-0.001	0	121682	48.9	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	99	527552	50.0	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	8545	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	495523	45.3	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	81	414017	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	96	155956	45.5	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	189075	50.0	

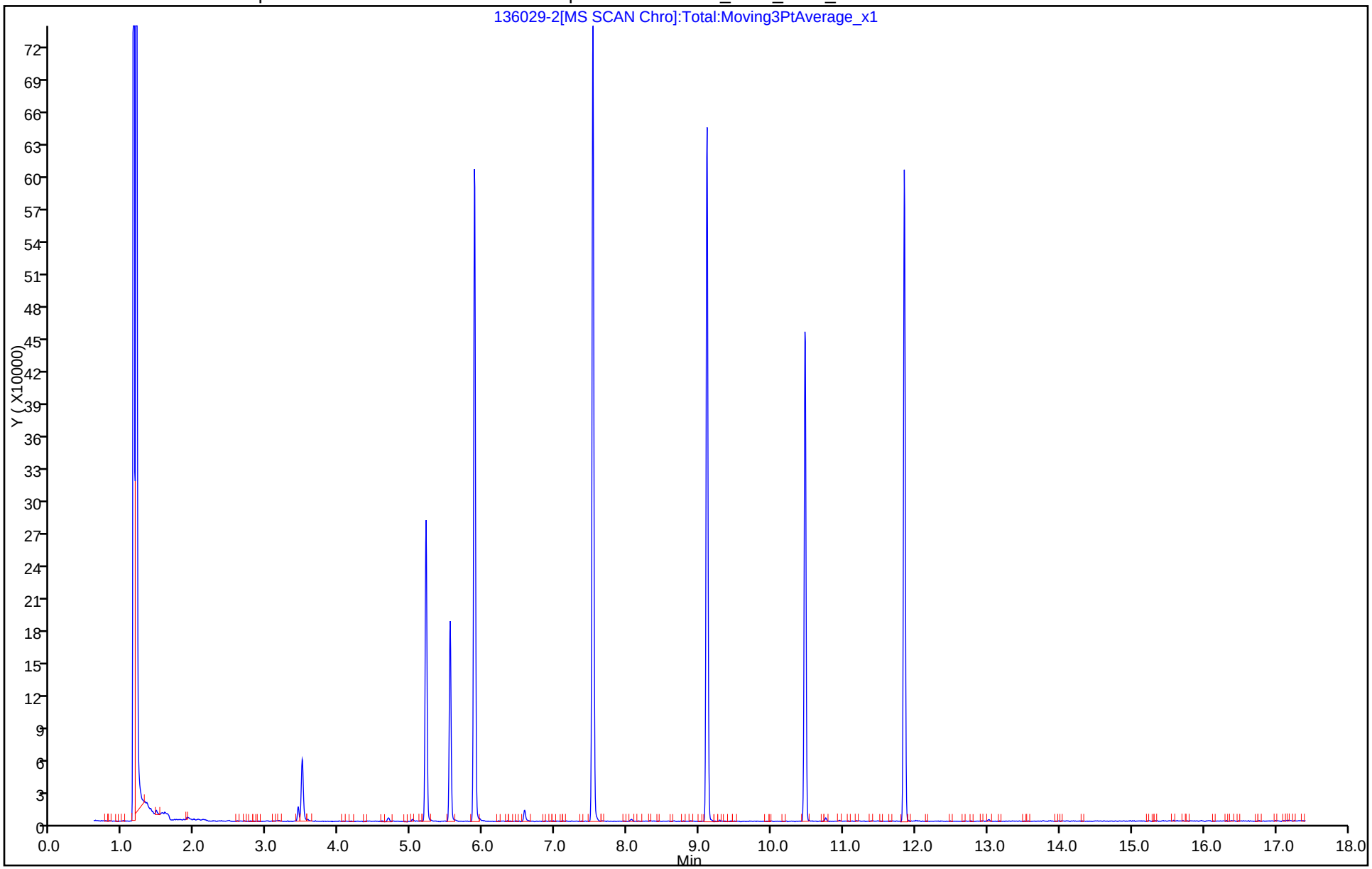
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 07:49:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-2.d				
Injection Date:	26-Oct-2017 18:45:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	500-136029-A-2	Lab Sample ID:	500-136029-2	Worklist Smp#:	23
Client ID:	EIP-TB07-102017				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-2.d				
Lims ID:	500-136029-A-2				
Client ID:	EIP-TB07-102017				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 18:45:30	ALS Bottle#:	20	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-a-2				
Misc. Info.:	500-0048625-023				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Last Update:	27-Oct-2017 07:49:12	Calib Date:	06-Dec-2016 01:45:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK019				

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:49:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	55.6	111.24
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	48.9	97.84
$ 70 Toluene-d8 (Surr)	50.0	45.3	90.51
$ 92 4-Bromofluorobenzene (Surr)	50.0	45.5	90.98

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-363659/2	25I1205A.d
Level 2	STD02 500-363659/3	25I1205B.d
Level 3	STD03 500-363659/27	25I1205C2.d
Level 4	STD04 500-363659/5	25I1205D.d
Level 5	STD05 500-363659/6	25I1205E.d
Level 6	STD06 500-363659/7	25I1205F.d
Level 7	STD07 500-363659/8	25I1205G.d
Level 8	STD08 500-363659/9	25I1205H.d
Level 9	STD09 500-363659/10	25I1205I.d
Level 10	STD10 500-363659/11	25I1205J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2567	0.3377	0.2430 0.3517	0.2679 0.3390	0.2740 0.3690	Lin1	-0.209	0.3516			0.0100				0.9960		0.9900
Chloromethane	0.3395	0.4073	0.4364 0.4392	0.4057 0.4811	0.4007 0.4733	Ave		0.4229			0.1000	10.7		15.0			
Vinyl chloride	0.3382 0.3185	0.2883 0.3514	0.3085 0.3649	0.3173 0.3584	0.3243 0.3825	Ave		0.3352			0.0100	8.6		15.0			
Butadiene	0.3023	0.3368	0.2985 0.3463	0.2922 0.3351	0.3210 0.3591	Ave		0.3239			0.0100	7.5		15.0			
Bromomethane	0.0880	0.0941	+++++ 0.1054	0.1193 0.1186	0.1203 0.1212	Ave		0.1096			0.0100	12.6		15.0			
Chloroethane	0.1855	0.1944	0.1770 0.1984	0.1945 0.2045	0.1928 0.2101	Ave		0.1946			0.0100	5.3		15.0			
Dichlorofluoromethane	0.4981	0.4994	0.4933 0.5154	0.5111 0.5168	0.5170 0.5409	Ave		0.5115			0.0100	2.9		15.0			
Trichlorofluoromethane	0.4744	0.4918	0.4511 0.5127	0.4898 0.4989	0.4812 0.5356	Ave		0.4919			0.0100	5.1		15.0			
Ethyl ether	0.1528	0.1573	0.1557 0.1616	0.1564 0.1632	0.1622 0.1637	Ave		0.1591			0.0100	2.5		15.0			
Acrolein	0.0213	0.0216	0.0186 0.0226	0.0208 0.0235	0.0211 0.0232	Ave		0.0216			0.0010	7.3		15.0			
1,1-Dichloroethene	0.2524	0.2568	0.2314 0.2644	0.2631 0.2639	0.2633 0.2705	Ave		0.2582			0.0100	4.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2872	0.2926	0.2473 0.2986	0.2829 0.2982	0.2891 0.3058	Ave		0.2877			0.0100	6.2		15.0			
Acetone	0.0343	0.0295	+++++ 0.0312	+++++ 0.0312	0.0483 0.0312	Lin1	0.0798	0.0304			0.0100				0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Iodomethane	0.3016	0.3389	+++++ 0.3656	0.1598 0.3752	0.1878 0.3702	Lin1	-0.629	0.3710			0.0100				0.9980		0.9900
Carbon disulfide	0.8438	0.8579	0.8491 0.8801	0.8705 0.8712	0.8717 0.8876	Ave		0.8665			0.0100	1.7		15.0			
3-Chloropropene	0.1349	0.1369	0.1311 0.1390	0.1247 0.1367	0.1364 0.1330	Ave		0.1341			0.0100	3.4		15.0			
Methyl acetate	0.0820	0.0821	0.0854 0.0858	0.0747 0.0871	0.0839 0.0883	Ave		0.0836			0.0100	5.1		15.0			
Methylene Chloride	0.2306	0.2234	+++++ 0.2312	+++++ 0.2330	0.2509 0.2324	Ave		0.2336			0.0100	3.9		15.0			
tert-Butyl alcohol	1.2848	1.2380	+++++ 1.2260	1.5025 1.2376	1.3423 1.2840	Ave		1.3022			0.0100	7.4		15.0			
Acrylonitrile	0.0486	0.0473	0.0465 0.0498	0.0491 0.0499	0.0495 0.0503	Ave		0.0489			0.0010	2.7		15.0			
trans-1,2-Dichloroethene	0.2776	0.2737	0.2810 0.2821	0.2681 0.2812	0.2746 0.2885	Ave		0.2784			0.0100	2.2		15.0			
Methyl tert-butyl ether	0.3948	0.3955	0.3474 0.4072	0.3553 0.4129	0.3869 0.4133	Ave		0.3892			0.0100	6.5		15.0			
Hexane	0.5659	0.5763	0.6010 0.5941	0.5918 0.5929	0.5783 0.6077	Ave		0.5885			0.0100	2.4		15.0			
1,1-Dichloroethane	0.5213	0.5189	0.4820 0.5350	0.5023 0.5389	0.5261 0.5436	Ave		0.5210			0.1000	3.9		15.0			
Vinyl acetate	0.3032	0.2981	0.2428 0.3401	0.2480 0.3402	0.2682 0.3515	Ave		0.2990			0.0100	14.3		15.0			
2,2-Dichloropropane	0.4539	0.4524	0.4396 0.4571	0.4505 0.4593	0.4613 0.4641	Ave		0.4548			0.0100	1.7		15.0			
cis-1,2-Dichloroethene	0.2873	0.2767	0.2890 0.2865	0.2884 0.2914	0.2838 0.2921	Ave		0.2869			0.0100	1.7		15.0			
Methyl Ethyl Ketone	0.0483	0.0466	+++++ 0.0509	+++++ 0.0493	0.0532 0.0509	Ave		0.0499			0.0100	4.6		15.0			
Bromochloromethane	0.1170	0.1143	0.1083 0.1195	0.1008 0.1199	0.1198 0.1183	Ave		0.1148			0.0100	6.0		15.0			
Tetrahydrofuran	0.0320	0.0308	+++++ 0.0331	0.0509 0.0321	0.0412 0.0325	Lin1	0.0723	0.0320			0.0100				0.9990		0.9900
Chloroform	0.4426	0.4334	0.4875 0.4461	0.4564 0.4492	0.4623 0.4540	Ave		0.4539			0.0100	3.6		15.0			
1,1,1-Trichloroethane	0.4669	0.4595	0.4427 0.4697	0.4422 0.4723	0.4676 0.4797	Ave		0.4626			0.0100	2.9		15.0			
Cyclohexane	0.6548	0.6499	0.6404 0.6706	0.6259 0.6625	0.6733 0.6807	Ave		0.6573			0.0100	2.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Carbon tetrachloride	0.4627	0.4556	0.4310 0.4652	0.4423 0.4656	0.4592 0.4717	Ave		0.4567			0.0100	3.0		15.0			
1,1-Dichloropropene	0.3801	0.3853	0.3662 0.3914	0.3458 0.3898	0.3758 0.3946	Ave		0.3786			0.0100	4.3		15.0			
Isobutyl alcohol	0.4589	0.4604	+++++ 0.5092	0.2445 0.5118	0.3841 0.5323	Lin2	-13.31	0.5032			0.0010				0.9980		0.9900
Benzene	1.1780 0.9736	0.9959 0.9674	0.9553 0.9913	0.9316 0.9984	0.9893 1.0030	Ave		0.9984			0.0100	6.7		15.0			
1,2-Dichloroethane	0.2993	0.2947	0.2800 0.3048	0.2954 0.3046	0.2926 0.3057	Ave		0.2971			0.0100	2.9		15.0			
Heptane	0.6000	0.5935	0.6051 0.6114	0.5892 0.6110	0.6091 0.6246	Ave		0.6055			0.0100	1.9		15.0			
Trichloroethene	0.2955 0.3332	0.3390 0.3286	0.2904 0.3388	0.3135 0.3419	0.3238 0.3476	Ave		0.3252			0.0100	6.0		15.0			
Methylcyclohexane	0.4951	0.4969	0.4784 0.5100	0.4776 0.5159	0.4941 0.5240	Ave		0.4990			0.0100	3.4		15.0			
1,2-Dichloropropane	0.2619	0.2525	0.2364 0.2629	0.2400 0.2667	0.2546 0.2682	Ave		0.2554			0.0100	4.7		15.0			
Dibromomethane	0.1060	0.1044	0.0970 0.1087	0.0978 0.1087	0.1075 0.1094	Ave		0.1049			0.0100	4.7		15.0			
1,4-Dioxane	1.0696	1.0603	+++++ 1.0185	0.7659 0.9753	1.0442 0.9477	Ave		0.9831			0.0010	10.7		15.0			
Bromodichloromethane	0.3098	0.3007	0.2797 0.3101	0.2943 0.3148	0.3144 0.3175	Ave		0.3052			0.0100	4.2		15.0			
2-Chloroethyl vinyl ether	0.0973	0.1017	+++++ 0.1136	0.0740 0.1109	0.0811 0.1222	Lin2	-0.082	0.1094			0.0100				0.9920		0.9900
cis-1,3-Dichloropropene	0.4554	0.4644	0.4016 0.4672	0.4172 0.4727	0.4477 0.4866	Ave		0.4516			0.0100	6.4		15.0			
methyl isobutyl ketone	0.1387	0.1368	+++++ 0.1404	+++++ 0.1382	0.1326 0.1485	Ave		0.1392			0.0100	3.8		15.0			
Toluene	1.1071 0.8798	0.8944 0.8801	0.8693 0.8736	0.8457 0.8838	0.8860 0.9183	Ave		0.9038			0.0100	8.2		15.0			
trans-1,3-Dichloropropene	0.3542	0.3586	0.2829 0.3671	0.3066 0.3692	0.3330 0.3803	Ave		0.3440			0.0100	9.9		15.0			
Ethyl methacrylate	0.1927	0.1921	0.1963 0.1989	0.1790 0.1996	0.1983 0.2058	Ave		0.1953			0.0100	4.0		15.0			
1,1,2-Trichloroethane	0.1849	0.1857	0.1671 0.1876	0.1673 0.1900	0.1823 0.1946	Ave		0.1824			0.0100	5.5		15.0			
Tetrachloroethene	0.4926	0.4950	0.4598 0.4976	0.4448 0.4992	0.4870 0.5224	Ave		0.4873			0.0100	5.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichloropropane	0.3150	0.3150	0.2616 0.3197	0.2832 0.3228	0.2997 0.3309	Ave		0.3060			0.0100	7.6		15.0			
2-Hexanone	0.0875	0.0872	+++++ 0.0901	+++++ 0.0886	0.0902 0.0955	Ave		0.0899			0.0100	3.4		15.0			
Dibromochloromethane	0.2857	0.2856	0.2436 0.2909	0.2429 0.2968	0.2712 0.3078	Ave		0.2781			0.0100	8.6		15.0			
1,2-Dibromoethane	0.1848	0.1888	0.1491 0.1929	0.1598 0.1942	0.1783 0.2003	Ave		0.1810			0.0100	9.9		15.0			
Chlorobenzene	0.9759	0.9661	0.9093 0.9701	0.9093 0.9796	0.9988 1.0098	Ave		0.9649			0.3000	3.9		15.0			
1,1,1,2-Tetrachloroethane	0.3445	0.3471	0.3050 0.3535	0.3087 0.3605	0.3355 0.3723	Ave		0.3409			0.0100	7.0		15.0			
Ethylbenzene	0.5752 0.5629	0.5490 0.5626	0.5149 0.5610	0.5090 0.5649	0.5545 0.5849	Ave		0.5539			0.0100	4.4		15.0			
m&p-Xylene	1.4948 1.3308	1.3219 1.3078	1.2531 1.3155	1.2447 1.3208	1.3108 1.3677	Ave		1.3268			0.0100	5.2		15.0			
o-Xylene	1.5306 1.3210	1.3045 1.3009	1.2128 1.3131	1.1936 1.3199	1.3093 1.3587	Ave		1.3165			0.0100	6.9		15.0			
Styrene	0.9949	0.9909	0.9498 0.9990	0.9035 1.0076	1.0046 1.0348	Ave		0.9856			0.0100	4.1		15.0			
Bromoform	0.1496	0.1505	0.1161 0.1547	0.1340 0.1591	0.1475 0.1620	Ave		0.1467			0.1000	10.2		15.0			
Isopropylbenzene	3.5258	3.5040	3.1734 3.5033	3.1811 3.5575	3.4312 3.6872	Ave		3.4454			0.0100	5.2		15.0			
Bromobenzene	0.8076	0.7932	0.7513 0.8023	0.6872 0.8162	0.7808 0.8482	Ave		0.7858			0.0100	6.2		15.0			
1,1,2,2-Tetrachloroethane	0.3320	0.3286	0.3121 0.3393	0.3115 0.3408	0.3587 0.3532	Ave		0.3345			0.3000	5.1		15.0			
1,2,3-Trichloropropane	0.3769	0.3798	0.3437 0.3880	0.3473 0.3939	0.3719 0.4044	Ave		0.3757			0.0100	5.7		15.0			
trans-1,4-Dichloro-2-butene	0.1458	0.1421	0.1519 0.1453	0.1535 0.1485	0.1452 0.1497	Ave		0.1477			0.0100	2.6		15.0			
N-Propylbenzene	4.0643	3.9920	3.7300 4.0519	3.6580 4.0498	4.0291 4.1912	Ave		3.9708			0.0100	4.6		15.0			
2-Chlorotoluene	2.2318	2.1812	2.1015 2.2022	2.0726 2.2062	2.2039 2.2987	Ave		2.1872			0.0100	3.3		15.0			
1,3,5-Trimethylbenzene	2.7813	2.7459	2.6872 2.7664	2.5352 2.7773	2.7868 2.8855	Ave		2.7457			0.0100	3.7		15.0			
4-Chlorotoluene	2.5749	2.5226	2.4454 2.5383	2.4418 2.5233	2.6087 2.6312	Ave		2.5358			0.0100	2.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
p-Isopropyltoluene	2.6734	2.6464	2.4941 2.6575	2.3901 2.6889	2.6781 2.7871	Ave		2.6270			0.0100	4.8		15.0			
1,2,4-Trimethylbenzene	2.7619	2.7110	2.5172 2.7265	2.4602 2.7331	2.7582 2.8331	Ave		2.6876			0.0100	4.8		15.0			
sec-Butylbenzene	3.9062	3.8204	3.6690 3.8320	3.5613 3.8254	3.9043 3.9692	Ave		3.8110			0.0100	3.5		15.0			
1,3-Dichlorobenzene	1.5856	1.5569	1.4887 1.5632	1.3918 1.5721	1.6005 1.6362	Ave		1.5494			0.0100	4.9		15.0			
tert-Butylbenzene	3.4100	3.3494	3.0053 3.3414	3.1457 3.3375	3.3751 3.4750	Ave		3.3049			0.0100	4.6		15.0			
1,4-Dichlorobenzene	1.5232	1.4958	1.4562 1.4867	1.4438 1.4900	1.5454 1.5640	Ave		1.5006			0.0100	2.8		15.0			
n-Butylbenzene	2.9627	2.9393	2.7230 2.9260	2.7308 2.9163	2.9906 3.0370	Ave		2.9032			0.0100	4.0		15.0			
1,2-Dichlorobenzene	1.3013	1.2980	1.2025 1.3133	1.1779 1.3219	1.3324 1.3665	Ave		1.2892			0.0100	5.0		15.0			
1,2-Dibromo-3-Chloropropane	0.0563	0.0554	+++++ 0.0567	0.0369 0.0571	0.0560 0.0585	Lin2	-0.038	0.0582			0.0100				0.9980		0.9900
1,2,4-Trichlorobenzene	0.9781	0.9567	0.9189 0.9636	0.9290 0.9586	1.0032 1.0185	Ave		0.9658			0.0100	3.5		15.0			
Hexachlorobutadiene	0.7188	0.7107	0.7032 0.6985	0.6762 0.7094	0.7120 0.7268	Ave		0.7069			0.0100	2.1		15.0			
Naphthalene	1.2603	1.2402	1.2554 1.2708	1.1821 1.2786	1.2580 1.3241	Ave		1.2587			0.0100	3.2		15.0			
1,2,3-Trichlorobenzene	0.7781	0.7667	0.7225 0.7725	0.7279 0.7764	0.7763 0.8170	Ave		0.7672			0.0100	3.9		15.0			
Dibromofluoromethane	0.2442	0.2617	0.2625	0.2671	0.2737	Ave		0.2618			0.0100	4.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2194	0.2384	0.2363	0.2401	0.2447	Ave		0.2358			0.0100	4.1		15.0			
Toluene-d8 (Surr)	1.2260	1.3545	1.3115	1.3224	1.3978	Ave		1.3224			0.0100	4.8		15.0			
4-Bromofluorobenzene (Surr)	0.8562	0.9193	0.8941	0.9105	0.9532	Ave		0.9066			0.0100	3.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-363659/2	25I1205A.d
Level 2	STD02 500-363659/3	25I1205B.d
Level 3	STD03 500-363659/27	25I1205C2.d
Level 4	STD04 500-363659/5	25I1205D.d
Level 5	STD05 500-363659/6	25I1205E.d
Level 6	STD06 500-363659/7	25I1205F.d
Level 7	STD07 500-363659/8	25I1205G.d
Level 8	STD08 500-363659/9	25I1205H.d
Level 9	STD09 500-363659/10	25I1205I.d
Level 10	STD10 500-363659/11	25I1205J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Lin1			2862	6372	16986			1.00	2.00	5.00
			65036	203166	425642	617289	882361	20.0	50.0	100	150	200
Chloromethane	FB	Ave			5140	9648	24843			1.00	2.00	5.00
			86030	245005	531570	875939	1131914	20.0	50.0	100	150	200
Vinyl chloride	FB	Ave	1021	1785	3633	7545	20103	0.250	0.500	1.00	2.00	5.00
			80699	211420	441670	652542	914730	20.0	50.0	100	150	200
Butadiene	FB	Ave			3516	6950	19901			1.00	2.00	5.00
			76593	202588	419204	610198	858791	20.0	50.0	100	150	200
Bromomethane	FB	Ave			+++++	2838	7457			+++++	2.00	5.00
			22298	56632	127622	215972	289889	20.0	50.0	100	150	200
Chloroethane	FB	Ave			2084	4625	11954			1.00	2.00	5.00
			47000	116942	240118	372315	502390	20.0	50.0	100	150	200
Dichlorofluoromethane	FB	Ave			5810	12154	32052			1.00	2.00	5.00
			126218	300454	623826	941024	1293530	20.0	50.0	100	150	200
Trichlorofluoromethane	FB	Ave			5312	11648	29832			1.00	2.00	5.00
			120222	295831	620616	908420	1280913	20.0	50.0	100	150	200
Ethyl ether	FB	Ave			1834	3719	10053			1.00	2.00	5.00
			38719	94632	195644	297081	391370	20.0	50.0	100	150	200
Acrolein	FB	Ave			8751	19792	52375			40.0	80.0	200
			215543	518684	1092346	1713025	2223506	800	2000	4000	6000	8000
1,1-Dichloroethene	FB	Ave			2725	6257	16322			1.00	2.00	5.00
			63968	154474	319984	480484	646788	20.0	50.0	100	150	200
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave			2912	6727	17924			1.00	2.00	5.00
			72773	176049	361466	542979	731336	20.0	50.0	100	150	200
Acetone	FB	Lin1			+++++	+++++	2996			+++++	+++++	5.00
			8687	17760	37741	56732	74667	20.0	50.0	100	150	200
Iodomethane	FB	Lin1			+++++	3801	11643			+++++	2.00	5.00
			76426	203859	442514	683146	885318	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon disulfide	FB	Ave	213814	516074	10000 1065275	20702 1586373	54041 2122604	20.0	50.0	1.00 100	2.00 150	5.00 200
3-Chloropropene	FB	Ave	34180	82366	1544 168246	2965 248865	8455 318129	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl acetate	FB	Ave	103859	247029	5028 518989	8877 792683	26002 1055627	100	250	5.00 500	10.0 750	25.0 1000
Methylene Chloride	FB	Ave	58422	134378	+++++ 279880	+++++ 424294	15553 555866	20.0	50.0	+++++ 100	+++++ 150	5.00 200
tert-Butyl alcohol	TBAd 9	Ave	23257	52945	+++++ 108961	2724 163603	6351 219349	200	500	+++++ 1000	20.0 1500	50.0 2000
Acrylonitrile	FB	Ave	123185	284263	5477 603016	11673 908699	30689 1201731	200	500	10.0 1000	20.0 1500	50.0 2000
trans-1,2-Dichloroethene	FB	Ave	70355	164646	3309 341435	6377 512069	17026 689971	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl tert-butyl ether	FB	Ave	100042	237941	4091 492885	8449 751882	23986 988332	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexane	FB	Ave	143397	346684	7078 719152	14075 1079598	35855 1453359	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloroethane	FB	Ave	132092	312181	5676 647566	11945 981271	32617 1299932	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl acetate	FB	Ave	76835	179320	2860 411688	5898 619370	16627 840656	20.0	50.0	1.00 100	2.00 150	5.00 200
2,2-Dichloropropane	FB	Ave	115012	272135	5177 553276	10714 836376	28599 1109868	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,2-Dichloroethene	FB	Ave	72792	166430	3403 346751	6860 530638	17594 698504	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl Ethyl Ketone	FB	Ave	12246	28042	+++++ 61605	+++++ 89825	3298 121637	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Bromochloromethane	FB	Ave	29656	68766	1276 144678	2397 218243	7429 282979	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrahydrofuran	FB	Lin1	16218	37050	+++++ 80012	2422 117067	5108 155479	40.0	100	+++++ 200	4.00 300	10.0 400
Chloroform	FB	Ave	112162	260701	5741 540012	10855 817902	28659 1085752	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1-Trichloroethane	FB	Ave	118318	276438	5214 568549	10516 859999	28991 1147050	20.0	50.0	1.00 100	2.00 150	5.00 200
Cyclohexane	FB	Ave	165919	390995	7542 811668	14885 1206245	41745 1627889	20.0	50.0	1.00 100	2.00 150	5.00 200
Carbon tetrachloride	FB	Ave	117242	274090	5076 563026	10519 847790	28468 1128147	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloropropene	FB	Ave	96321	231764	4313 473705	8225 709678	23296 943560	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isobutyl alcohol	TBAd 9	Lin2	 20766	 49224	+++++ 113146	1108 169133	4543 227355	 500	 1250	+++++ 2500	50.0 3750	125 5000
Benzene	FB	Ave	3556 246719	6166 581963	11251 1199847	22155 1817837	61332 2398576	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloroethane	FB	Ave	 75849	 177276	3297 368901	7025 554700	18142 730956	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Heptane	FB	Ave	 152053	 357064	7126 740003	14012 1112488	37760 1493598	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Trichloroethene	FB	Ave	892 84434	2099 197678	3420 410100	7455 622574	20074 831180	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Methylcyclohexane	FB	Ave	 125455	 298931	5634 617258	11358 939364	30635 1253201	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloropropane	FB	Ave	 66378	 151880	2784 318253	5707 485589	15784 641355	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Dibromomethane	FB	Ave	 26870	 62817	1142 131521	2326 197991	6663 261675	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,4-Dioxane	DXE	Ave	 4913	 11087	+++++ 23705	330 34576	1147 46940	 400	 1000	+++++ 2000	40.0 3000	100 4000
Bromodichloromethane	FB	Ave	 78508	 180907	3294 375398	6999 573201	19493 759163	 20.0	 50.0	1.00 100	2.00 150	5.00 200
2-Chloroethyl vinyl ether	CBNZ d5	Lin2	 18705	 45329	+++++ 104373	1376 153308	3879 216408	 20.0	 50.0	+++++ 100	2.00 150	5.00 200
cis-1,3-Dichloropropene	CBNZ d5	Ave	 87531	 206905	3684 429424	7761 653333	21424 861605	 20.0	 50.0	1.00 100	2.00 150	5.00 200
methyl isobutyl ketone	CBNZ d5	Ave	 26656	 60963	+++++ 129054	+++++ 191062	6344 262967	 20.0	 50.0	+++++ 100	+++++ 150	5.00 200
Toluene	CBNZ d5	Ave	2533 169109	4327 392158	7974 802981	15731 1221461	42404 1626023	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
trans-1,3-Dichloropropene	CBNZ d5	Ave	 68074	 159765	2595 337382	5704 510271	15937 673439	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Ethyl methacrylate	CBNZ d5	Ave	 37040	 85599	1801 182784	3329 275831	9488 364312	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloroethane	CBNZ d5	Ave	 35542	 82762	1533 172477	3112 262539	8723 344532	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Tetrachloroethene	CBNZ d5	Ave	 94687	 220544	4218 457335	8274 689900	23308 924928	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,3-Dichloropropane	CBNZ d5	Ave	 60550	 140352	2400 293894	5269 446060	14343 585840	 20.0	 50.0	1.00 100	2.00 150	5.00 200
2-Hexanone	CBNZ d5	Ave	 16820	 38868	+++++ 82783	+++++ 122458	4318 169129	 20.0	 50.0	+++++ 100	+++++ 150	5.00 200
Dibromochloromethane	CBNZ d5	Ave	 54922	 127253	2234 267409	4518 410219	12980 545057	 20.0	 50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dibromoethane	CBNZ	Ave			1368	2972	8534			1.00	2.00	5.00
	d5		35525	84111	177277	268391	354713	20.0	50.0	100	150	200
Chlorobenzene	CBNZ	Ave			8341	16914	47802			1.00	2.00	5.00
	d5		187585	430449	891640	1353794	1788056	20.0	50.0	100	150	200
1,1,1,2-Tetrachloroethane	CBNZ	Ave			2798	5742	16055			1.00	2.00	5.00
	d5		66220	154667	324899	498159	659202	20.0	50.0	100	150	200
Ethylbenzene	CBNZ	Ave	1316	2656	4723	9468	26538	0.250	0.500	1.00	2.00	5.00
	d5		108208	250675	515640	780736	1035601	20.0	50.0	100	150	200
m&p-Xylene	CBNZ	Ave	3420	6395	11494	23153	62734	0.250	0.500	1.00	2.00	5.00
	d5		255811	582717	1209151	1825395	2421717	20.0	50.0	100	150	200
o-Xylene	CBNZ	Ave	3502	6311	11125	22203	62661	0.250	0.500	1.00	2.00	5.00
	d5		253927	579652	1206926	1824110	2405824	20.0	50.0	100	150	200
Styrene	CBNZ	Ave			8712	16806	48077			1.00	2.00	5.00
	d5		191232	441520	918222	1392494	1832154	20.0	50.0	100	150	200
Bromoform	CBNZ	Ave			1065	2493	7060			1.00	2.00	5.00
	d5		28760	67058	142221	219829	286788	20.0	50.0	100	150	200
Isopropylbenzene	DCBd	Ave			14459	30617	84739			1.00	2.00	5.00
	4		343655	791660	1620637	2454125	3233370	20.0	50.0	100	150	200
Bromobenzene	DCBd	Ave			3423	6614	19284			1.00	2.00	5.00
	4		78717	179212	371144	563045	743817	20.0	50.0	100	150	200
1,1,2,2-Tetrachloroethane	DCBd	Ave			1422	2998	8858			1.00	2.00	5.00
	4		32358	74240	156948	235073	309774	20.0	50.0	100	150	200
1,2,3-Trichloropropane	DCBd	Ave			1566	3343	9185			1.00	2.00	5.00
	4		36731	85804	179468	271746	354619	20.0	50.0	100	150	200
trans-1,4-Dichloro-2-butene	DCBd	Ave			692	1477	3587			1.00	2.00	5.00
	4		14210	32104	67214	102459	131254	20.0	50.0	100	150	200
N-Propylbenzene	DCBd	Ave			16995	35207	99505			1.00	2.00	5.00
	4		396140	901913	1874439	2793775	3675358	20.0	50.0	100	150	200
2-Chlorotoluene	DCBd	Ave			9575	19948	54428			1.00	2.00	5.00
	4		217527	492808	1018749	1521956	2015768	20.0	50.0	100	150	200
1,3,5-Trimethylbenzene	DCBd	Ave			12244	24401	68824			1.00	2.00	5.00
	4		271084	620388	1279748	1915898	2530344	20.0	50.0	100	150	200
4-Chlorotoluene	DCBd	Ave			11142	23502	64425			1.00	2.00	5.00
	4		250966	569931	1174242	1740678	2307413	20.0	50.0	100	150	200
p-Isopropyltoluene	DCBd	Ave			11364	23004	66140			1.00	2.00	5.00
	4		260571	597904	1229380	1854954	2444128	20.0	50.0	100	150	200
1,2,4-Trimethylbenzene	DCBd	Ave			11469	23679	68117			1.00	2.00	5.00
	4		269195	612494	1261272	1885413	2484394	20.0	50.0	100	150	200
sec-Butylbenzene	DCBd	Ave			16717	34277	96422			1.00	2.00	5.00
	4		380728	863144	1772685	2638938	3480684	20.0	50.0	100	150	200
1,3-Dichlorobenzene	DCBd	Ave			6783	13396	39526			1.00	2.00	5.00
	4		154546	351744	723147	1084515	1434829	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 15:34 Calibration End Date: 12/06/2016 01:45 Calibration ID: 23749

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
tert-Butylbenzene	DCBd 4	Ave	332368	756745	13693 1545750	30277 2302398	83354 3047359	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dichlorobenzene	DCBd 4	Ave	148463	337953	6635 687766	13896 1027877	38165 1371473	20.0	50.0	1.00 100	2.00 150	5.00 200
n-Butylbenzene	DCBd 4	Ave	288769	664077	12407 1353563	26283 2011787	73857 2663230	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichlorobenzene	DCBd 4	Ave	126833	293267	5479 607516	11337 911901	32906 1198339	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	5489	12520	+++++ 26241	355 39386	1382 51311	20.0	50.0	+++++ 100	2.00 150	5.00 200
1,2,4-Trichlorobenzene	DCBd 4	Ave	95329	216145	4187 445749	8941 661322	24776 893115	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexachlorobutadiene	DCBd 4	Ave	70063	160560	3204 323140	6508 489377	17583 637363	20.0	50.0	1.00 100	2.00 150	5.00 200
Naphthalene	DCBd 4	Ave	122842	280193	5720 587893	11377 882049	31069 1161162	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichlorobenzene	DCBd 4	Ave	75843	173230	3292 357346	7006 535604	19172 716435	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromofluoromethane	FB	Ave	61869	157447	317711	486345	654431	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	55597	143394	286002	437116	585069	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave	235663	603518	1205440	1827526	2474906	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	83451	207689	413615	628101	835900	20.0	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205A.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Dec-2016 15:34:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD01
Misc. Info.: 500-0042086-002
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:56:33 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:50:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.672	1.672	0.000	29	1021	0.2500	0.2523	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	94869	1000.0	1000.0	
49 Benzene	78	5.657	5.657	0.000	82	3556	0.2500	0.2950	
* 54 Fluorobenzene (IS)	96	5.935	5.940	-0.005	98	603710	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	35	892	0.2500	0.2272	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	11497	1000.0	1000.0	
71 Toluene	92	7.655	7.655	-0.001	60	2533	0.2500	0.3062	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	85	457586	50.0	50.0	
85 Ethylbenzene	106	9.327	9.327	0.000	56	1316	0.2500	0.2596	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	3420	0.2500	0.2817	
87 o-Xylene	91	9.919	9.920	-0.001	62	3502	0.2500	0.2907	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	240891	50.0	50.0	
S 123 Xylenes, Total	1				0			0.5723	

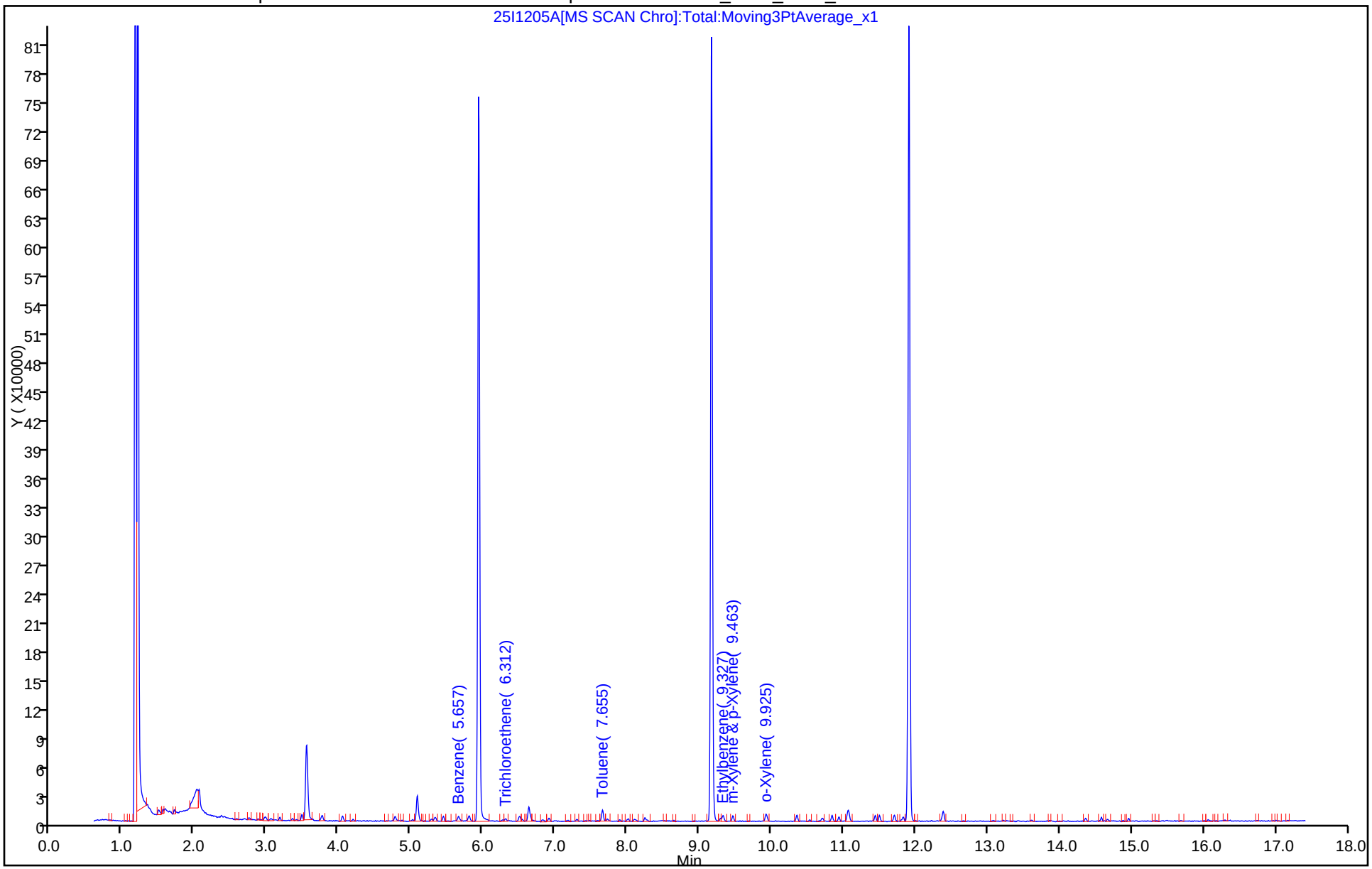
Reagents:

LEVEL1 8260_00003 Amount Added: 2.50 Units: uL
8260 LOWIS1_00104 Amount Added: 5.00 Units: uL

Report Date: 06-Dec-2016 11:56:33 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205A.d				
Injection Date:	05-Dec-2016 15:34:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD01			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205B.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Dec-2016 16:02:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD02
Misc. Info.: 500-0042086-003
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:56:42 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:50:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.672	1.672	0.000	41	1785	0.5000	0.4300	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	98412	1000.0	1000.0	
49 Benzene	78	5.657	5.657	0.000	76	6166	0.5000	0.4988	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	619134	50.0	50.0	
56 Trichloroethene	130	6.307	6.312	-0.005	55	2099	0.5000	0.5212	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	12435	1000.0	1000.0	
71 Toluene	92	7.654	7.655	-0.001	76	4327	0.5000	0.4948	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	483777	50.0	50.0	
85 Ethylbenzene	106	9.332	9.327	0.005	80	2656	0.5000	0.4956	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	6395	0.5000	0.4982	
87 o-Xylene	91	9.919	9.920	-0.001	75	6311	0.5000	0.4955	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	93	251983	50.0	50.0	
S 123 Xylenes, Total	1				0			0.99	

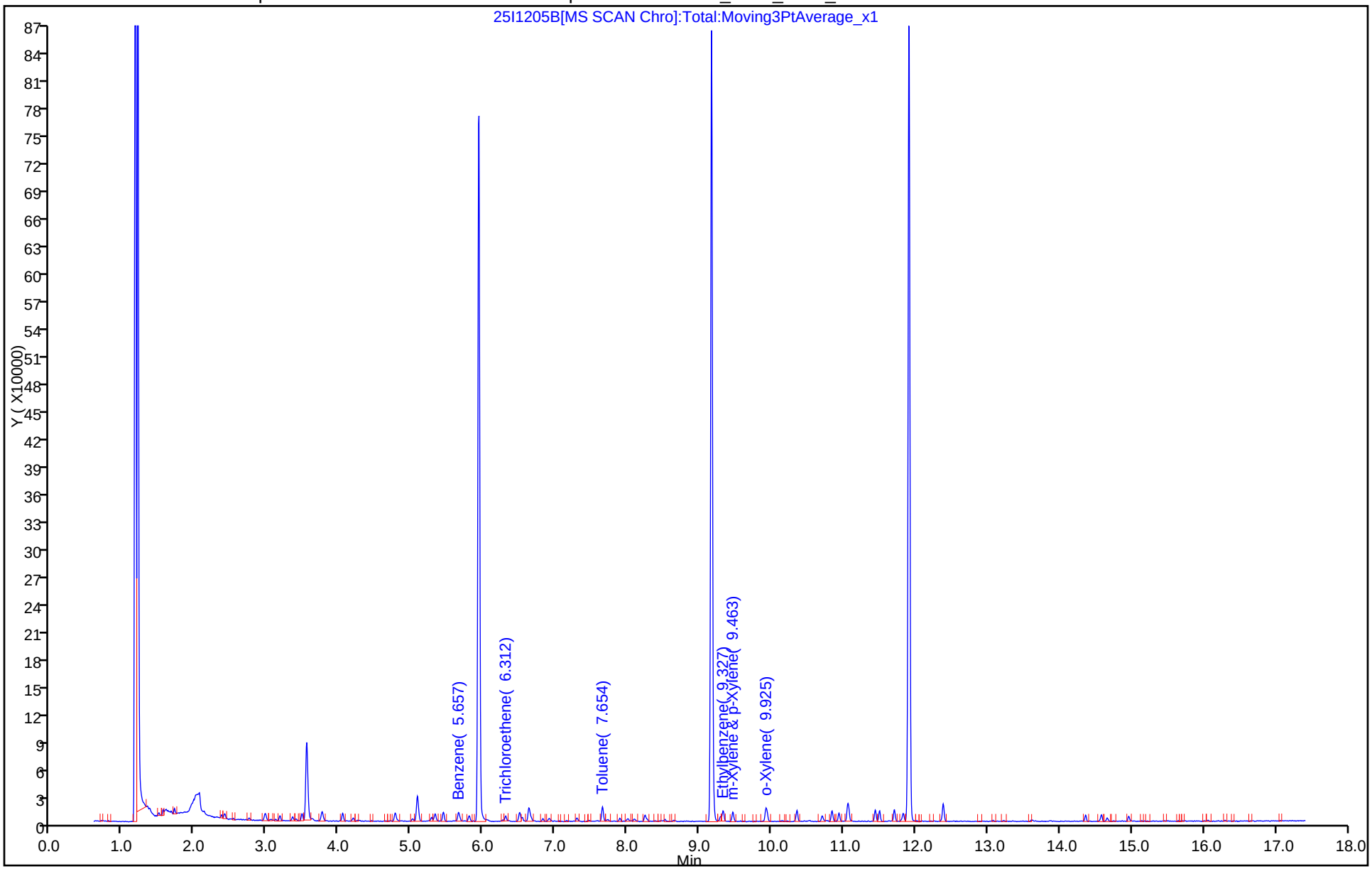
Reagents:

8260 LOWIS1_00104 Amount Added: 5.00 Units: uL
LEVEL1 8260_00003 Amount Added: 5.00 Units: uL

Report Date: 06-Dec-2016 11:56:43 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205B.d				
Injection Date:	05-Dec-2016 16:02:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD02			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205D.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Dec-2016 16:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 500-0042086-005
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:56:53 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:56:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	77	6372	2.00	2.12	
2 Chloromethane	50	1.557	1.552	0.005	83	9648	2.00	1.92	
3 Vinyl chloride	62	1.672	1.672	0.000	68	7545	2.00	1.89	
4 Butadiene	39	1.714	1.714	0.000	84	6950	2.00	1.80	
5 Bromomethane	94	2.013	2.013	0.000	87	2838	2.00	2.18	
6 Chloroethane	64	2.128	2.128	0.000	81	4625	2.00	2.00	
7 Dichlorofluoromethane	67	2.370	2.370	0.000	76	12154	2.00	2.00	
8 Trichlorofluoromethane	101	2.411	2.412	-0.001	73	11648	2.00	1.99	
10 Ethyl ether	59	2.747	2.747	0.000	77	3719	2.00	1.97	
11 Acrolein	56	2.878	2.878	0.000	94	19792	80.0	77.1	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	81	6257	2.00	2.04	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	73	6727	2.00	1.97	
15 Iodomethane	142	3.119	3.119	0.000	75	3801	2.00	2.56	
16 Carbon disulfide	76	3.177	3.177	0.000	98	20702	2.00	2.01	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	83	2965	2.00	1.86	
20 Methyl acetate	43	3.397	3.392	0.005	90	8877	10.0	8.93	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	90648	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	79	2724	20.0	23.1	
24 Acrylonitrile	53	3.748	3.743	0.005	96	11673	20.0	20.1	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	87	6377	2.00	1.93	
26 Methyl tert-butyl ether	73	3.769	3.769	0.000	80	8449	2.00	1.83	
27 Hexane	57	4.047	4.047	0.000	88	14075	2.00	2.01	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	72	11945	2.00	1.93	
29 Vinyl acetate	43	4.262	4.257	0.005	98	5898	2.00	1.66	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	68	10714	2.00	1.98	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	80	6860	2.00	2.01	
39 Chlorobromomethane	128	5.017	5.017	0.000	79	2397	2.00	1.76	
40 Tetrahydrofuran	42	5.075	5.070	0.005	36	2422	4.00	4.11	
41 Chloroform	83	5.106	5.106	0.000	73	10855	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	79	10516	2.00	1.91	
44 Cyclohexane	56	5.332	5.332	0.000	88	14885	2.00	1.90	
45 Carbon tetrachloride	117	5.447	5.447	0.000	74	10519	2.00	1.94	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	81	8225	2.00	1.83	
47 Isobutyl alcohol	43	5.599	5.589	0.010	55	1108	50.0	50.7	
49 Benzene	78	5.657	5.657	0.000	94	22155	2.00	1.87	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	77	7025	2.00	1.99	
53 n-Heptane	43	5.930	5.930	0.000	39	14012	2.00	1.95	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	594558	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	81	7455	2.00	1.93	
58 Methylcyclohexane	83	6.506	6.506	0.000	87	11358	2.00	1.91	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	65	5707	2.00	1.88	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	10772	1000.0	1000.0	
63 Dibromomethane	93	6.664	6.664	0.000	76	2326	2.00	1.86	
64 1,4-Dioxane	88	6.695	6.690	0.005	19	330	40.0	31.2	
65 Dichlorobromomethane	83	6.826	6.826	0.000	78	6999	2.00	1.93	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	49	1376	2.00	2.10	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	70	7761	2.00	1.85	
71 Toluene	92	7.654	7.655	-0.001	89	15731	2.00	1.87	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	82	5704	2.00	1.78	
73 Ethyl methacrylate	69	8.001	7.995	0.006	54	3329	2.00	1.83	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	69	3112	2.00	1.83	
75 Tetrachloroethene	166	8.247	8.247	0.000	82	8274	2.00	1.83	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	79	5269	2.00	1.85	
79 Chlorodibromomethane	129	8.525	8.525	0.000	56	4518	2.00	1.75	
80 Ethylene Dibromide	107	8.651	8.651	0.000	59	2972	2.00	1.77	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	465049	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	48	16914	2.00	1.88	
84 1,1,1,2-Tetrachloroethane	131	9.296	9.296	0.000	65	5742	2.00	1.81	
85 Ethylbenzene	106	9.332	9.327	0.005	97	9468	2.00	1.84	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	23153	2.00	1.88	
87 o-Xylene	91	9.919	9.920	-0.001	89	22203	2.00	1.81	
88 Styrene	104	9.940	9.935	0.005	89	16806	2.00	1.83	
89 Bromoform	173	10.150	10.145	0.005	57	2493	2.00	1.83	
90 Isopropylbenzene	105	10.355	10.355	0.000	92	30617	2.00	1.85	
93 Bromobenzene	156	10.706	10.706	0.000	77	6614	2.00	1.75	
94 1,1,2,2-Tetrachloroethane	83	10.706	10.711	-0.005	15	2998	2.00	1.86	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	18	3343	2.00	1.85	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	25	1477	2.00	2.08	
97 N-Propylbenzene	91	10.842	10.842	0.000	95	35207	2.00	1.84	
98 2-Chlorotoluene	91	10.937	10.937	0.000	93	19948	2.00	1.90	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	89	24401	2.00	1.85	
100 4-Chlorotoluene	91	11.068	11.068	0.000	87	23502	2.00	1.93	
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	77	23004	2.00	1.82	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	66	23679	2.00	1.83	
105 sec-Butylbenzene	105	11.707	11.707	0.000	87	34277	2.00	1.87	
106 1,3-Dichlorobenzene	146	11.828	11.833	-0.005	90	13396	2.00	1.80	
107 tert-Butylbenzene	119	11.886	11.886	0.000	67	30277	2.00	1.90	
* 108 1,4-Dichlorobenzene-d4	152	11.907	11.912	-0.005	95	240619	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	71	13896	2.00	1.92	
112 n-Butylbenzene	91	12.384	12.384	0.000	95	26283	2.00	1.88	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	64	11337	2.00	1.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	1	355	2.00	1.93	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	75	8941	2.00	1.92	
117 Hexachlorobutadiene	225	14.581	14.581	0.000	65	6508	2.00	1.91	
118 Naphthalene	128	14.659	14.659	0.000	84	11377	2.00	1.88	
119 1,2,3-Trichlorobenzene	180	14.958	14.958	0.000	78	7006	2.00	1.90	
S 122 1,2-Dichloroethene, Total	1				0			3.94	
S 123 Xylenes, Total	1				0			3.69	
S 124 1,3-Dichloropropene, Total	1				0			3.63	
S 125 Trihalomethanes, Total	1				0			7.51	
S 126 Trimethylbenzene, Total	1				0			3.68	

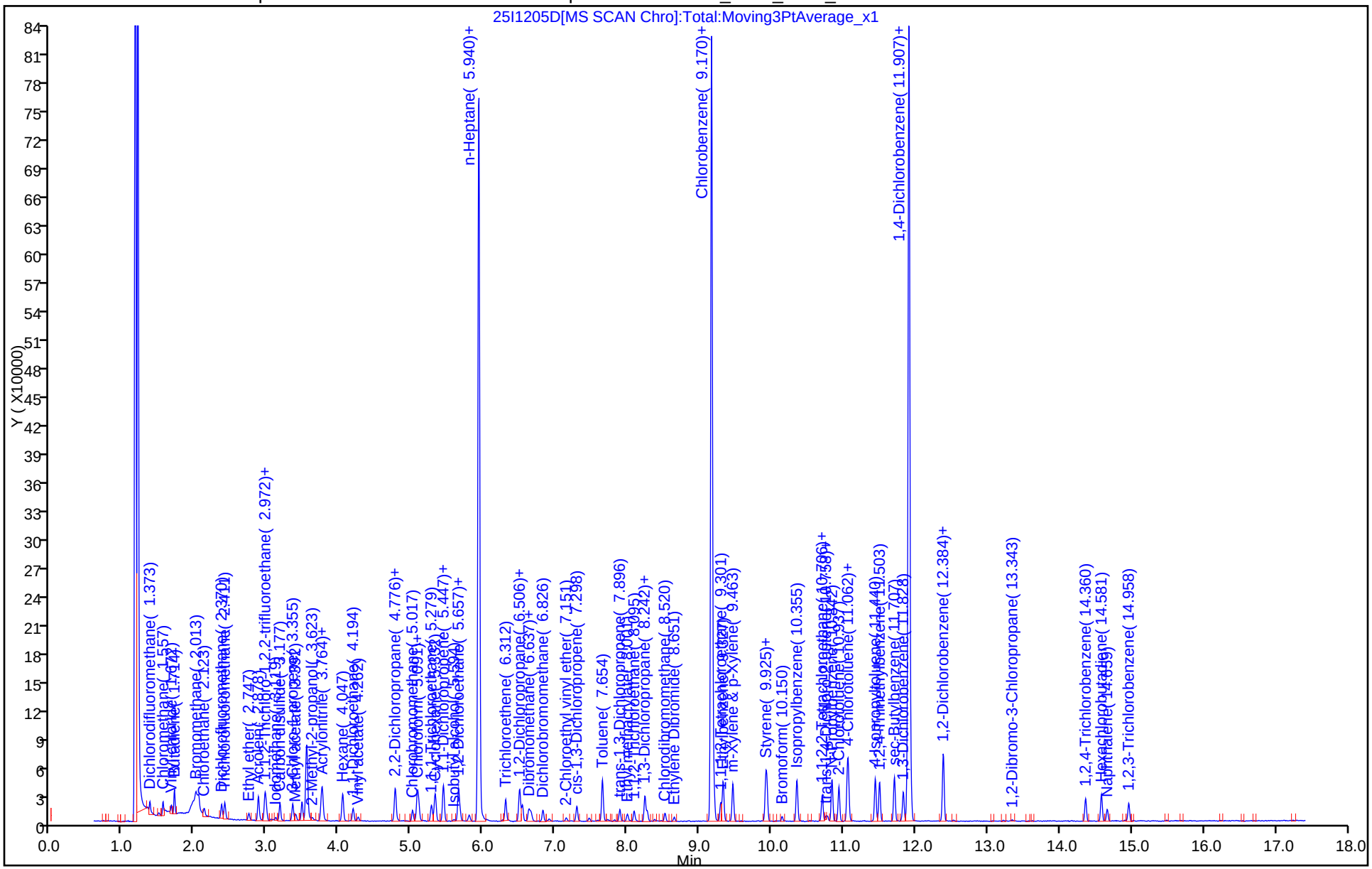
Reagents:

LOW8260ACR_00155 Amount Added: 2.00 Units: uL
8260 LOWIS1_00104 Amount Added: 5.00 Units: uL
LO8260/624STD_00216 Amount Added: 2.00 Units: uL

Report Date: 06-Dec-2016 11:56:53 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205D.d				
Injection Date:	05-Dec-2016 16:57:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD04			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205E.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Dec-2016 17:25:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 500-0042086-006
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:56:57 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	85	16986	5.00	4.49	
2 Chloromethane	50	1.552	1.552	0.000	89	24843	5.00	4.74	
3 Vinyl chloride	62	1.672	1.672	0.000	82	20103	5.00	4.84	
4 Butadiene	39	1.714	1.714	0.000	83	19901	5.00	4.95	
5 Bromomethane	94	2.008	2.013	-0.005	90	7457	5.00	5.49	
6 Chloroethane	64	2.128	2.128	0.000	92	11954	5.00	4.95	
7 Dichlorofluoromethane	67	2.370	2.370	0.000	82	32052	5.00	5.05	
8 Trichlorofluoromethane	101	2.411	2.412	-0.001	76	29832	5.00	4.89	
10 Ethyl ether	59	2.747	2.747	0.000	95	10053	5.00	5.10	
11 Acrolein	56	2.878	2.878	0.000	95	52375	200.0	195.7	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	85	16322	5.00	5.10	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	79	17924	5.00	5.02	
14 Acetone	43	3.051	3.051	0.000	92	2996	5.00	5.32	
15 Iodomethane	142	3.119	3.119	0.000	97	11643	5.00	4.23	
16 Carbon disulfide	76	3.177	3.177	0.000	98	54041	5.00	5.03	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	88	8455	5.00	5.09	
20 Methyl acetate	43	3.392	3.392	0.000	97	26002	25.0	25.1	
21 Methylene Chloride	84	3.486	3.486	0.000	89	15553	5.00	5.37	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	94629	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	80	6351	50.0	51.5	
24 Acrylonitrile	53	3.748	3.743	0.005	98	30689	50.0	50.6	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	89	17026	5.00	4.93	
26 Methyl tert-butyl ether	73	3.769	3.769	0.000	80	23986	5.00	4.97	
27 Hexane	57	4.047	4.047	0.000	92	35855	5.00	4.91	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	85	32617	5.00	5.05	
29 Vinyl acetate	43	4.262	4.257	0.005	88	16627	5.00	4.48	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	74	28599	5.00	5.07	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	83	17594	5.00	4.95	
35 2-Butanone (MEK)	43	4.808	4.808	0.000	74	3298	5.00	5.33	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	86	7429	5.00	5.22	
40 Tetrahydrofuran	42	5.070	5.070	0.000	74	5108	10.0	10.6	
41 Chloroform	83	5.106	5.106	0.000	82	28659	5.00	5.09	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	87	28991	5.00	5.05	
44 Cyclohexane	56	5.332	5.332	0.000	88	41745	5.00	5.12	
45 Carbon tetrachloride	117	5.447	5.447	0.000	80	28468	5.00	5.03	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	86	23296	5.00	4.96	
47 Isobutyl alcohol	43	5.594	5.589	0.005	62	4543	125.0	121.8	
49 Benzene	78	5.657	5.657	0.000	95	61332	5.00	4.95	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	88	18142	5.00	4.92	
53 n-Heptane	43	5.930	5.930	0.000	42	37760	5.00	5.03	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	619971	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	88	20074	5.00	4.98	
58 Methylcyclohexane	83	6.506	6.506	0.000	89	30635	5.00	4.95	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	85	15784	5.00	4.98	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10984	1000.0	1000.0	
63 Dibromomethane	93	6.664	6.664	0.000	78	6663	5.00	5.12	
64 1,4-Dioxane	88	6.690	6.690	0.000	37	1147	100.0	106.2	
65 Dichlorobromomethane	83	6.826	6.826	0.000	87	19493	5.00	5.15	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	76	3879	5.00	4.45	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	79	21424	5.00	4.96	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	79	6344	5.00	4.76	
71 Toluene	92	7.655	7.655	-0.001	94	42404	5.00	4.90	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	87	15937	5.00	4.84	
73 Ethyl methacrylate	69	8.001	7.995	0.006	78	9488	5.00	5.08	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	84	8723	5.00	5.00	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	23308	5.00	5.00	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	91	14343	5.00	4.90	
77 2-Hexanone	43	8.378	8.373	0.005	78	4318	5.00	5.02	
79 Chlorodibromomethane	129	8.525	8.525	0.000	79	12980	5.00	4.88	
80 Ethylene Dibromide	107	8.651	8.651	0.000	86	8534	5.00	4.93	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	478582	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	79	47802	5.00	5.18	
84 1,1,1,2-Tetrachloroethane	131	9.296	9.296	0.000	84	16055	5.00	4.92	
85 Ethylbenzene	106	9.327	9.327	0.000	98	26538	5.00	5.01	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	62734	5.00	4.94	
87 o-Xylene	91	9.920	9.920	0.000	92	62661	5.00	4.97	
88 Styrene	104	9.935	9.935	0.000	90	48077	5.00	5.10	
89 Bromoform	173	10.150	10.145	0.005	82	7060	5.00	5.03	
90 Isopropylbenzene	105	10.355	10.355	0.000	97	84739	5.00	4.98	
93 Bromobenzene	156	10.706	10.706	0.000	75	19284	5.00	4.97	
94 1,1,2,2-Tetrachloroethane	83	10.706	10.711	-0.005	54	8858	5.00	5.36	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	40	9185	5.00	4.95	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	60	3587	5.00	4.92	
97 N-Propylbenzene	91	10.842	10.842	0.000	96	99505	5.00	5.07	
98 2-Chlorotoluene	91	10.937	10.937	0.000	97	54428	5.00	5.04	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	92	68824	5.00	5.07	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	64425	5.00	5.14	
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	84	66140	5.00	5.10	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	65	68117	5.00	5.13	
105 sec-Butylbenzene	105	11.707	11.707	0.000	93	96422	5.00	5.12	
106 1,3-Dichlorobenzene	146	11.828	11.833	-0.005	94	39526	5.00	5.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 tert-Butylbenzene	119	11.886	11.886	0.000	72	83354	5.00	5.11	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	246966	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	90	38165	5.00	5.15	
112 n-Butylbenzene	91	12.384	12.384	0.000	96	73857	5.00	5.15	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	69	32906	5.00	5.17	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	12	1382	5.00	5.47	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	92	24776	5.00	5.19	
117 Hexachlorobutadiene	225	14.581	14.581	0.000	79	17583	5.00	5.04	
118 Naphthalene	128	14.659	14.659	0.000	96	31069	5.00	5.00	
119 1,2,3-Trichlorobenzene	180	14.958	14.958	0.000	90	19172	5.00	5.06	
S 122 1,2-Dichloroethene, Total	1				0			9.88	
S 123 Xylenes, Total	1				0			9.91	
S 124 1,3-Dichloropropene, Total	1				0			9.80	
S 125 Trihalomethanes, Total	1				0			20.1	
S 126 Trimethylbenzene, Total	1				0			10.2	

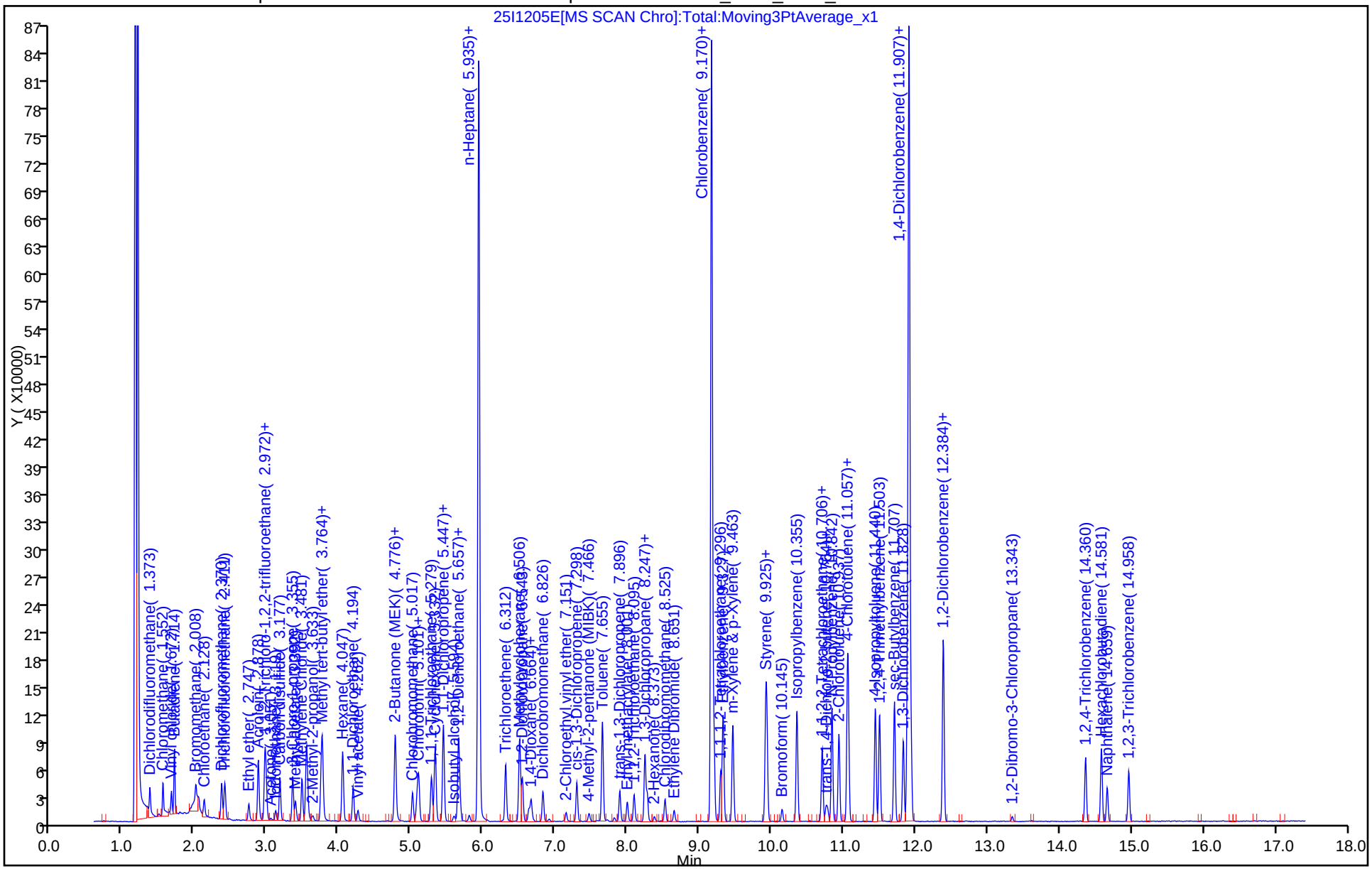
Reagents:

LOW8260ACR_00155 Amount Added: 5.00 Units: uL
8260 LOWIS1_00104 Amount Added: 5.00 Units: uL
LO8260/624STD_00216 Amount Added: 5.00 Units: uL

Report Date: 06-Dec-2016 11:56:57 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205E.d				
Injection Date:	05-Dec-2016 17:25:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD05			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205F.d
Lims ID: STD06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Dec-2016 17:53:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06
Misc. Info.: 500-0042086-007
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:01 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	87	65036	20.0	15.2	
2 Chloromethane	50	1.551	1.552	-0.001	89	86030	20.0	16.1	
3 Vinyl chloride	62	1.672	1.672	0.000	84	80699	20.0	19.0	
4 Butadiene	39	1.714	1.714	0.000	85	76593	20.0	18.7	
5 Bromomethane	94	2.008	2.013	-0.005	91	22298	20.0	16.1	
6 Chloroethane	64	2.123	2.128	-0.005	92	47000	20.0	19.1	
7 Dichlorofluoromethane	67	2.369	2.370	-0.001	83	126218	20.0	19.5	
8 Trichlorofluoromethane	101	2.411	2.412	-0.001	78	120222	20.0	19.3	
10 Ethyl ether	59	2.747	2.747	0.000	97	38719	20.0	19.2	
11 Acrolein	56	2.878	2.878	0.000	96	215543	800.0	788.3	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	84	63968	20.0	19.6	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	81	72773	20.0	20.0	
14 Acetone	43	3.051	3.051	0.000	98	8687	20.0	19.9	
15 Iodomethane	142	3.119	3.119	0.000	99	76426	20.0	18.0	
16 Carbon disulfide	76	3.177	3.177	0.000	99	213814	20.0	19.5	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	89	34180	20.0	20.1	
20 Methyl acetate	43	3.392	3.392	0.000	96	103859	100.0	98.0	
21 Methylene Chloride	84	3.486	3.486	0.000	91	58422	20.0	19.7	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	90505	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	91	23257	200.0	197.3	
24 Acrylonitrile	53	3.748	3.743	0.005	96	123185	200.0	199.0	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	91	70355	20.0	19.9	
26 Methyl tert-butyl ether	73	3.774	3.769	0.005	92	100042	20.0	20.3	
27 Hexane	57	4.047	4.047	0.000	93	143397	20.0	19.2	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	132092	20.0	20.0	
29 Vinyl acetate	43	4.262	4.257	0.005	99	76835	20.0	20.3	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	74	115012	20.0	20.0	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	85	72792	20.0	20.0	
35 2-Butanone (MEK)	43	4.807	4.808	-0.001	75	12246	20.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	83	29656	20.0	20.4	
40 Tetrahydrofuran	42	5.070	5.070	0.000	90	16218	40.0	37.7	
41 Chloroform	83	5.106	5.106	0.000	84	112162	20.0	19.5	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	59	61869	20.0	18.7	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	89	118318	20.0	20.2	
44 Cyclohexane	56	5.332	5.332	0.000	91	165919	20.0	19.9	
45 Carbon tetrachloride	117	5.447	5.447	0.000	77	117242	20.0	20.3	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	87	96321	20.0	20.1	
47 Isobutyl alcohol	43	5.589	5.589	0.000	60	20766	500.0	482.4	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	55597	20.0	18.6	
49 Benzene	78	5.657	5.657	0.000	96	246719	20.0	19.5	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	82	75849	20.0	20.1	
53 n-Heptane	43	5.929	5.930	-0.001	60	152053	20.0	19.8	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	96	633503	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	89	84434	20.0	20.5	
58 Methylcyclohexane	83	6.506	6.506	0.000	91	125455	20.0	19.8	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	89	66378	20.0	20.5	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	11483	1000.0	1000.0	
63 Dibromomethane	93	6.663	6.664	-0.001	83	26870	20.0	20.2	
64 1,4-Dioxane	88	6.690	6.690	0.000	74	4913	400.0	435.2	
65 Dichlorobromomethane	83	6.831	6.826	0.005	90	78508	20.0	20.3	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	88	18705	20.0	18.5	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	87	87531	20.0	20.2	
69 4-Methyl-2-pentanone (MIBK	43	7.471	7.466	0.005	96	26656	20.0	19.9	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	95	235663	20.0	18.5	
71 Toluene	92	7.654	7.655	-0.001	94	169109	20.0	19.5	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	92	68074	20.0	20.6	
73 Ethyl methacrylate	69	8.000	7.995	0.005	83	37040	20.0	19.7	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	89	35542	20.0	20.3	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	94687	20.0	20.2	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	94	60550	20.0	20.6	
77 2-Hexanone	43	8.373	8.373	0.000	96	16820	20.0	19.5	
79 Chlorodibromomethane	129	8.525	8.525	0.000	87	54922	20.0	20.6	
80 Ethylene Dibromide	107	8.651	8.651	0.000	99	35525	20.0	20.4	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	480544	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	92	187585	20.0	20.2	
84 1,1,1,2-Tetrachloroethane	131	9.295	9.296	-0.001	89	66220	20.0	20.2	
85 Ethylbenzene	106	9.332	9.327	0.005	99	108208	20.0	20.3	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	255811	20.0	20.1	
87 o-Xylene	91	9.919	9.920	-0.001	93	253927	20.0	20.1	
88 Styrene	104	9.935	9.935	0.000	91	191232	20.0	20.2	
89 Bromoform	173	10.145	10.145	0.000	97	28760	20.0	20.4	
90 Isopropylbenzene	105	10.355	10.355	-0.001	97	343655	20.0	20.5	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	91	83451	20.0	18.9	
93 Bromobenzene	156	10.706	10.706	0.000	74	78717	20.0	20.6	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	63	32358	20.0	19.8	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	56	36731	20.0	20.1	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	70	14210	20.0	19.7	
97 N-Propylbenzene	91	10.842	10.842	0.000	97	396140	20.0	20.5	
98 2-Chlorotoluene	91	10.936	10.937	-0.001	97	217527	20.0	20.4	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	92	271084	20.0	20.3	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	250966	20.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	86	260571	20.0	20.4	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	74	269195	20.0	20.6	
105 sec-Butylbenzene	105	11.707	11.707	0.000	95	380728	20.0	20.5	
106 1,3-Dichlorobenzene	146	11.828	11.833	-0.005	83	154546	20.0	20.5	
107 tert-Butylbenzene	119	11.885	11.886	-0.001	68	332368	20.0	20.6	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	243669	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	94	148463	20.0	20.3	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	288769	20.0	20.4	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	67	126833	20.0	20.2	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	41	5489	20.0	20.0	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	92	95329	20.0	20.3	
117 Hexachlorobutadiene	225	14.580	14.581	-0.001	84	70063	20.0	20.3	
118 Naphthalene	128	14.659	14.659	0.000	99	122842	20.0	20.0	
119 1,2,3-Trichlorobenzene	180	14.963	14.958	0.005	94	75843	20.0	20.3	
S 122 1,2-Dichloroethene, Total	1				0			40.0	
S 123 Xylenes, Total	1				0			40.1	
S 124 1,3-Dichloropropene, Total	1				0			40.8	
S 125 Trihalomethanes, Total	1				0			80.8	
S 126 Trimethylbenzene, Total	1				0			40.8	

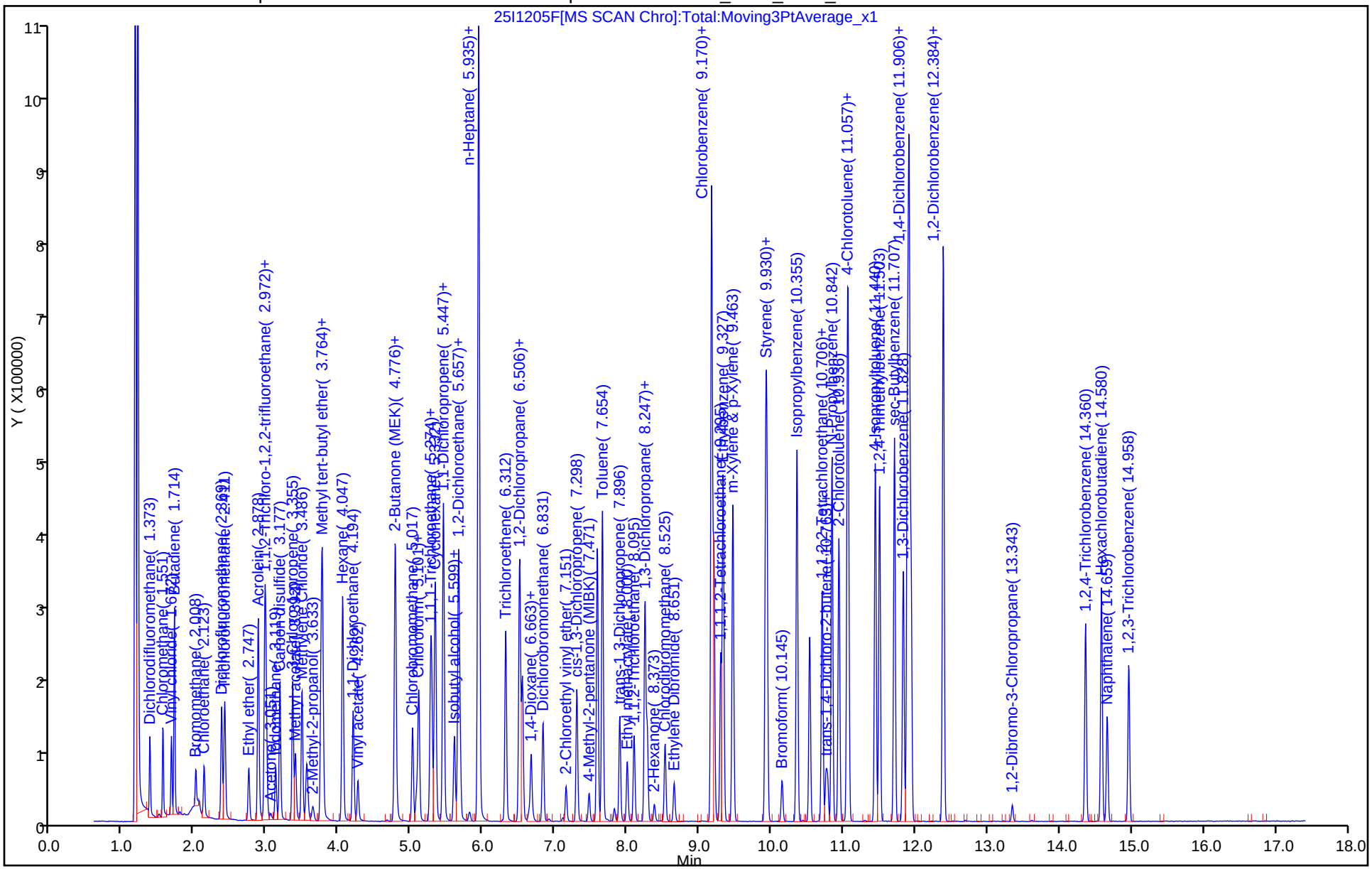
Reagents:

LOW8260ACR_00155	Amount Added: 20.00	Units: uL
8260 LOWSS1_00124	Amount Added: 2.00	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
LO8260/624STD_00216	Amount Added: 20.00	Units: uL

Report Date: 06-Dec-2016 11:57:01 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205F.d				
Injection Date:	05-Dec-2016 17:53:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD06			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205G.d
Lims ID: STD07
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 05-Dec-2016 18:20:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07
Misc. Info.: 500-0042086-008
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:05 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	88	203166	50.0	48.6	
2 Chloromethane	50	1.552	1.552	0.000	89	245005	50.0	48.2	
3 Vinyl chloride	62	1.672	1.672	0.000	84	211420	50.0	52.4	
4 Butadiene	39	1.714	1.714	0.000	85	202588	50.0	52.0	
5 Bromomethane	94	2.013	2.013	0.000	92	56632	50.0	43.0	
6 Chloroethane	64	2.128	2.128	0.000	92	116942	50.0	49.9	
7 Dichlorofluoromethane	67	2.370	2.370	0.000	84	300454	50.0	48.8	
8 Trichlorofluoromethane	101	2.412	2.412	0.000	78	295831	50.0	50.0	
10 Ethyl ether	59	2.747	2.747	0.000	96	94632	50.0	49.4	
11 Acrolein	56	2.878	2.878	0.000	94	518684	2000.0	1997.6	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	85	154474	50.0	49.7	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	83	176049	50.0	50.9	
14 Acetone	43	3.051	3.051	0.000	97	17760	50.0	45.9	
15 Iodomethane	142	3.119	3.119	0.000	99	203859	50.0	47.4	
16 Carbon disulfide	76	3.177	3.177	0.000	99	516074	50.0	49.5	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	82	82366	50.0	51.1	
20 Methyl acetate	43	3.392	3.392	0.000	96	247029	250.0	245.5	
21 Methylene Chloride	84	3.486	3.486	0.000	91	134378	50.0	47.8	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	85534	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	98	52945	500.0	475.4	
24 Acrylonitrile	53	3.743	3.743	0.000	96	284263	500.0	483.5	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	90	164646	50.0	49.2	
26 Methyl tert-butyl ether	73	3.769	3.769	0.000	81	237941	50.0	50.8	
27 Hexane	57	4.047	4.047	0.000	92	346684	50.0	49.0	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	312181	50.0	49.8	
29 Vinyl acetate	43	4.257	4.257	0.000	100	179320	50.0	49.8	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	73	272135	50.0	49.7	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	84	166430	50.0	48.2	
35 2-Butanone (MEK)	43	4.808	4.808	0.000	97	28042	50.0	46.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	78	68766	50.0	49.8	
40 Tetrahydrofuran	42	5.070	5.070	0.000	90	37050	100.0	94.0	
41 Chloroform	83	5.106	5.106	0.000	84	260701	50.0	47.7	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	60	157447	50.0	50.0	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	90	276438	50.0	49.7	
44 Cyclohexane	56	5.332	5.332	0.000	87	390995	50.0	49.4	
45 Carbon tetrachloride	117	5.447	5.447	0.000	80	274090	50.0	49.9	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	87	231764	50.0	50.9	
47 Isobutyl alcohol	43	5.589	5.589	0.000	56	49224	1250.0	1170.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	143394	50.0	50.6	
49 Benzene	78	5.657	5.657	0.000	96	581963	50.0	48.4	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	83	177276	50.0	49.6	
53 n-Heptane	43	5.930	5.930	0.000	91	357064	50.0	49.0	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	94	601588	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	89	197678	50.0	50.5	
58 Methylcyclohexane	83	6.506	6.506	0.000	92	298931	50.0	49.8	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	90	151880	50.0	49.4	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10456	1000.0	1000.0	
63 Dibromomethane	93	6.664	6.664	0.000	88	62817	50.0	49.8	
64 1,4-Dioxane	88	6.690	6.690	0.000	94	11087	1000.0	1078.6	
65 Dichlorobromomethane	83	6.826	6.826	0.000	90	180907	50.0	49.3	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	89	45329	50.0	47.3	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	86	206905	50.0	51.4	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	96	60963	50.0	49.1	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	95	603518	50.0	51.2	
71 Toluene	92	7.655	7.655	0.000	93	392158	50.0	48.7	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	91	159765	50.0	52.1	
73 Ethyl methacrylate	69	7.995	7.995	0.000	81	85599	50.0	49.2	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	89	82762	50.0	50.9	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	220544	50.0	50.8	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	95	140352	50.0	51.5	
77 2-Hexanone	43	8.373	8.373	0.000	97	38868	50.0	48.5	
79 Chlorodibromomethane	129	8.525	8.525	0.000	88	127253	50.0	51.4	
80 Ethylene Dibromide	107	8.651	8.651	0.000	99	84111	50.0	52.1	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	445564	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	92	430449	50.0	50.1	
84 1,1,1,2-Tetrachloroethane	131	9.296	9.296	0.000	90	154667	50.0	50.9	
85 Ethylbenzene	106	9.327	9.327	0.000	99	250675	50.0	50.8	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	582717	50.0	49.3	
87 o-Xylene	91	9.920	9.920	0.000	94	579652	50.0	49.4	
88 Styrene	104	9.935	9.935	0.000	91	441520	50.0	50.3	
89 Bromoform	173	10.145	10.145	0.000	98	67058	50.0	51.3	
90 Isopropylbenzene	105	10.355	10.355	0.000	98	791660	50.0	50.8	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	93	207689	50.0	50.7	
93 Bromobenzene	156	10.706	10.706	0.000	80	179212	50.0	50.5	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	64	74240	50.0	49.1	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	55	85804	50.0	50.5	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	71	32104	50.0	48.1	
97 N-Propylbenzene	91	10.842	10.842	0.000	98	901913	50.0	50.3	
98 2-Chlorotoluene	91	10.937	10.937	0.000	97	492808	50.0	49.9	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	92	620388	50.0	50.0	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	569931	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.445	11.445	0.000	86	597904	50.0	50.4	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	74	612494	50.0	50.4	
105 sec-Butylbenzene	105	11.707	11.707	0.000	94	863144	50.0	50.1	
106 1,3-Dichlorobenzene	146	11.833	11.833	0.000	85	351744	50.0	50.2	
107 tert-Butylbenzene	119	11.886	11.886	0.000	68	756745	50.0	50.7	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	225932	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	94	337953	50.0	49.8	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	664077	50.0	50.6	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	70	293267	50.0	50.3	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	58	12520	50.0	48.3	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	93	216145	50.0	49.5	
117 Hexachlorobutadiene	225	14.581	14.581	0.000	85	160560	50.0	50.3	
118 Naphthalene	128	14.659	14.659	0.000	99	280193	50.0	49.3	
119 1,2,3-Trichlorobenzene	180	14.958	14.958	0.000	94	173230	50.0	50.0	

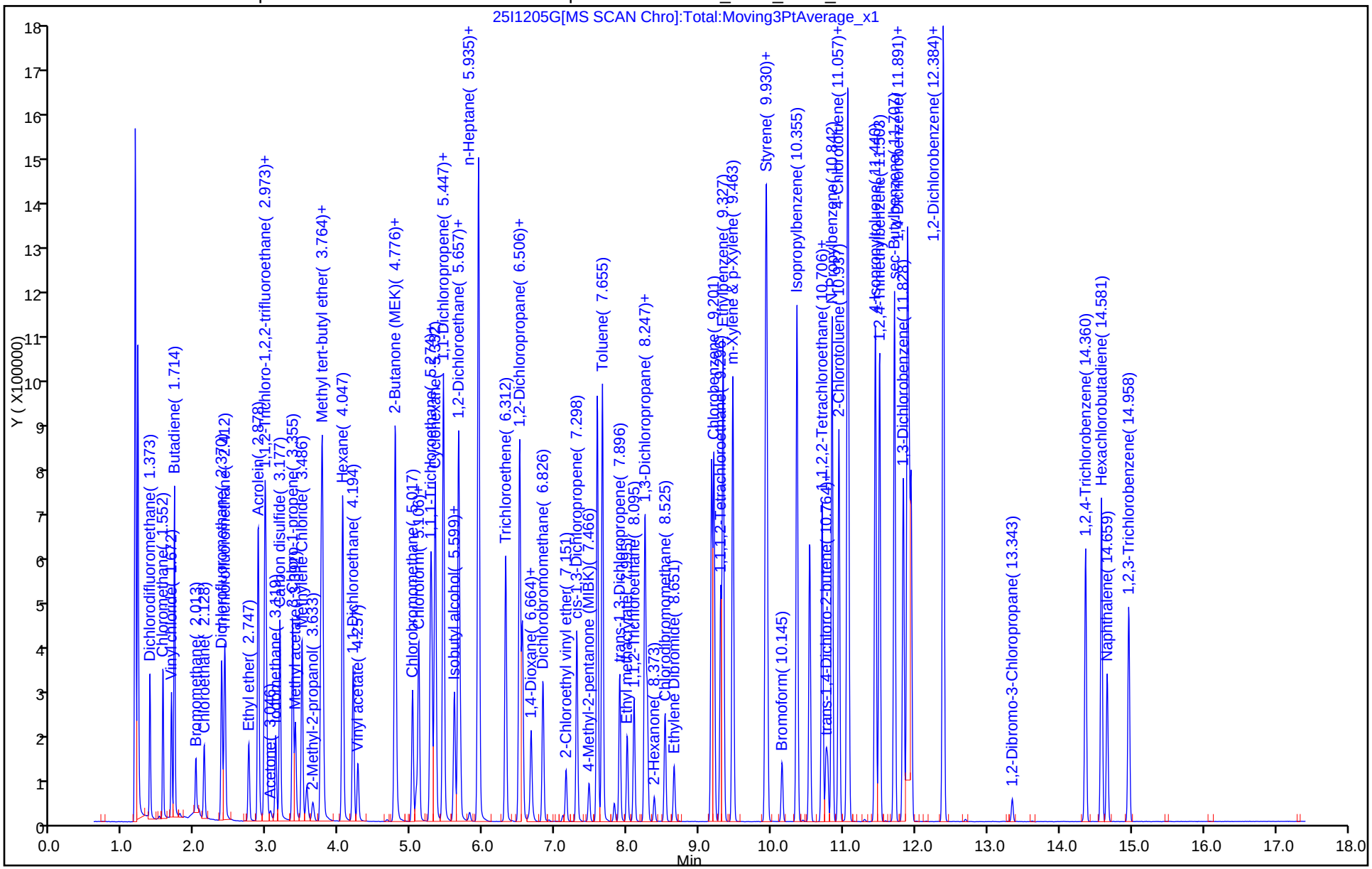
Reagents:

8260 LOWSS1_00124	Amount Added:	5.00	Units: uL
8260/624GASWK_00411	Amount Added:	2.50	Units: uL
8260/624KETWK_00236	Amount Added:	2.50	Units: uL
8260VA/2CEVE_00241	Amount Added:	2.50	Units: uL
8260/624ACRWK_00299	Amount Added:	2.50	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
8260/624MEGWK_00347	Amount Added:	2.50	Units: uL

Report Date: 06-Dec-2016 11:57:06 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205G.d				
Injection Date:	05-Dec-2016 18:20:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD07			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205H.d
Lims ID: STD08
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Dec-2016 18:48:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08
Misc. Info.: 500-0042086-009
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:09 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	88	425642	100.0	100.6	
2 Chloromethane	50	1.552	1.552	0.000	89	531570	100.0	103.8	
3 Vinyl chloride	62	1.672	1.672	0.000	84	441670	100.0	108.9	
4 Butadiene	39	1.714	1.714	0.000	84	419204	100.0	106.9	
5 Bromomethane	94	2.013	2.013	0.000	90	127622	100.0	96.2	
6 Chloroethane	64	2.128	2.128	0.000	92	240118	100.0	101.9	
7 Dichlorofluoromethane	67	2.370	2.370	0.000	84	623826	100.0	100.8	
8 Trichlorofluoromethane	101	2.411	2.412	-0.001	81	620616	100.0	104.2	
10 Ethyl ether	59	2.747	2.747	0.000	97	195644	100.0	101.6	
11 Acrolein	56	2.878	2.878	0.000	96	1092346	4000.0	4181.8	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	84	319984	100.0	102.4	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	84	361466	100.0	103.8	
14 Acetone	43	3.046	3.051	-0.005	97	37741	100.0	99.9	
15 Iodomethane	142	3.119	3.119	0.000	99	442514	100.0	100.2	
16 Carbon disulfide	76	3.177	3.177	0.000	99	1065275	100.0	101.6	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	82	168246	100.0	103.7	
20 Methyl acetate	43	3.392	3.392	0.000	99	518989	500.0	512.6	
21 Methylene Chloride	84	3.486	3.486	0.000	90	279880	100.0	99.0	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	88874	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	97	108961	1000.0	941.5	
24 Acrylonitrile	53	3.743	3.743	0.000	97	603016	1000.0	1019.5	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	90	341435	100.0	101.3	
26 Methyl tert-butyl ether	73	3.775	3.769	0.006	93	492885	100.0	104.6	
27 Hexane	57	4.047	4.047	0.000	91	719152	100.0	101.0	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	647566	100.0	102.7	
29 Vinyl acetate	43	4.257	4.257	0.000	99	411688	100.0	113.7	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	72	553276	100.0	100.5	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	85	346751	100.0	99.9	
35 2-Butanone (MEK)	43	4.808	4.808	0.000	97	61605	100.0	102.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	90	144678	100.0	104.2	
40 Tetrahydrofuran	42	5.070	5.070	0.000	91	80012	200.0	204.3	
41 Chloroform	83	5.106	5.106	0.000	84	540012	100.0	98.3	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	63	317711	100.0	100.3	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	90	568549	100.0	101.5	
44 Cyclohexane	56	5.332	5.332	0.000	87	811668	100.0	102.0	
45 Carbon tetrachloride	117	5.447	5.447	0.000	78	563026	100.0	101.9	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	88	473705	100.0	103.4	
47 Isobutyl alcohol	43	5.589	5.589	0.000	68	113146	2500.0	2556.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	286002	100.0	100.2	
49 Benzene	78	5.657	5.657	0.000	95	1199847	100.0	99.3	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	83	368901	100.0	102.6	
53 n-Heptane	43	5.930	5.930	0.000	94	740003	100.0	101.0	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	90	605200	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	89	410100	100.0	104.2	
58 Methylcyclohexane	83	6.506	6.506	0.000	91	617258	100.0	102.2	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	89	318253	100.0	103.0	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	11637	1000.0	1000.0	
63 Dibromomethane	93	6.664	6.664	0.000	88	131521	100.0	103.5	
64 1,4-Dioxane	88	6.690	6.690	0.000	93	23705	2000.0	2072.1	
65 Dichlorobromomethane	83	6.826	6.826	0.000	91	375398	100.0	101.6	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	91	104373	100.0	104.6	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	88	429424	100.0	103.5	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	94	129054	100.0	100.9	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	94	1205440	100.0	99.2	
71 Toluene	92	7.655	7.655	-0.001	93	802981	100.0	96.7	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	88	337382	100.0	106.7	
73 Ethyl methacrylate	69	7.995	7.995	0.000	79	182784	100.0	101.8	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	88	172477	100.0	102.9	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	457335	100.0	102.1	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	95	293894	100.0	104.5	
77 2-Hexanone	43	8.373	8.373	0.000	97	82783	100.0	100.2	
79 Chlorodibromomethane	129	8.525	8.525	0.000	89	267409	100.0	104.6	
80 Ethylene Dibromide	107	8.651	8.651	0.000	99	177277	100.0	106.5	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	459575	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	94	891640	100.0	100.5	
84 1,1,1,2-Tetrachloroethane	131	9.296	9.296	0.000	90	324899	100.0	103.7	
85 Ethylbenzene	106	9.327	9.327	0.000	99	515640	100.0	101.3	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	1209151	100.0	99.1	
87 o-Xylene	91	9.919	9.920	-0.001	94	1206926	100.0	99.7	
88 Styrene	104	9.935	9.935	0.000	91	918222	100.0	101.4	
89 Bromoform	173	10.145	10.145	0.000	98	142221	100.0	105.5	
90 Isopropylbenzene	105	10.355	10.355	0.000	97	1620637	100.0	101.7	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	92	413615	100.0	98.6	
93 Bromobenzene	156	10.701	10.706	-0.005	85	371144	100.0	102.1	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	66	156948	100.0	101.4	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	55	179468	100.0	103.3	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	65	67214	100.0	98.3	
97 N-Propylbenzene	91	10.842	10.842	0.000	98	1874439	100.0	102.0	
98 2-Chlorotoluene	91	10.937	10.937	0.000	98	1018749	100.0	100.7	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	92	1279748	100.0	100.8	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	1174242	100.0	100.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	85	1229380	100.0	101.2	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	75	1261272	100.0	101.4	
105 sec-Butylbenzene	105	11.707	11.707	0.000	94	1772685	100.0	100.6	
106 1,3-Dichlorobenzene	146	11.828	11.833	-0.005	96	723147	100.0	100.9	
107 tert-Butylbenzene	119	11.886	11.886	0.000	68	1545750	100.0	101.1	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	95	231302	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	94	687766	100.0	99.1	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	1353563	100.0	100.8	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	69	607516	100.0	101.9	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	63	26241	100.0	98.1	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	92	445749	100.0	99.8	
117 Hexachlorobutadiene	225	14.581	14.581	0.000	84	323140	100.0	98.8	
118 Naphthalene	128	14.659	14.659	0.000	99	587893	100.0	101.0	
119 1,2,3-Trichlorobenzene	180	14.958	14.958	0.000	94	357346	100.0	100.7	
S 122 1,2-Dichloroethene, Total	1				0			201.2	
S 123 Xylenes, Total	1				0			198.9	
S 124 1,3-Dichloropropene, Total	1				0			210.2	
S 125 Trihalomethanes, Total	1				0			410.0	
S 126 Trimethylbenzene, Total	1				0			202.2	

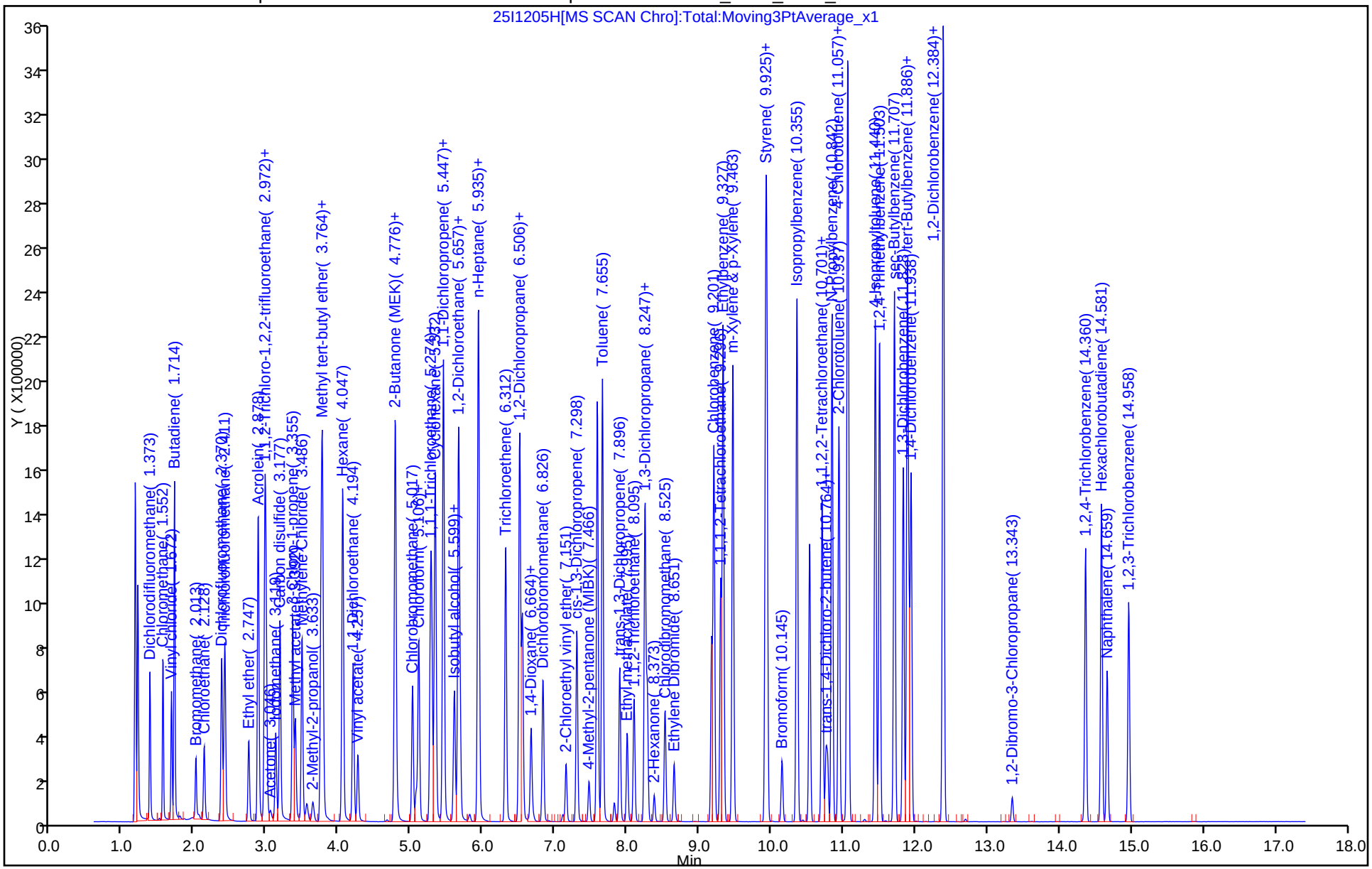
Reagents:

8260 LOWSS1_00124	Amount Added: 10.00	Units: uL
8260/624GASWK_00411	Amount Added: 5.00	Units: uL
8260/624KETWK_00236	Amount Added: 5.00	Units: uL
8260VA/2CEVE_00241	Amount Added: 5.00	Units: uL
8260/624ACRWK_00299	Amount Added: 5.00	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
8260/624MEGWK_00347	Amount Added: 5.00	Units: uL

Report Date: 06-Dec-2016 11:57:10 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205H.d				
Injection Date:	05-Dec-2016 18:48:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD08			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205I.d
Lims ID: STD09
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Dec-2016 19:16:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09
Misc. Info.: 500-0042086-010
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:13 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	88	617289	150.0	145.2	
2 Chloromethane	50	1.557	1.552	0.005	89	875939	150.0	170.6	
3 Vinyl chloride	62	1.672	1.672	0.000	83	652542	150.0	160.4	
4 Butadiene	39	1.714	1.714	0.000	84	610198	150.0	155.2	
5 Bromomethane	94	2.013	2.013	0.000	90	215972	150.0	162.4	
6 Chloroethane	64	2.128	2.128	0.000	92	372315	150.0	157.6	
7 Dichlorofluoromethane	67	2.369	2.370	-0.001	84	941024	150.0	151.6	
8 Trichlorofluoromethane	101	2.417	2.412	0.005	78	908420	150.0	152.1	
10 Ethyl ether	59	2.747	2.747	0.000	97	297081	150.0	153.8	
11 Acrolein	56	2.878	2.878	0.000	96	1713025	6000.0	6539.1	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	85	480484	150.0	153.3	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	84	542979	150.0	155.5	
14 Acetone	43	3.046	3.051	-0.005	94	56732	150.0	151.1	
15 Iodomethane	142	3.119	3.119	0.000	99	683146	150.0	153.4	
16 Carbon disulfide	76	3.182	3.177	0.005	99	1586373	150.0	150.8	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	83	248865	150.0	152.9	
20 Methyl acetate	43	3.392	3.392	0.000	97	792683	750.0	780.7	
21 Methylene Chloride	84	3.486	3.486	0.000	90	424294	150.0	149.6	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	88129	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	99	163603	1500.0	1425.6	
24 Acrylonitrile	53	3.748	3.743	0.005	97	908699	1500.0	1531.9	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	90	512069	150.0	151.5	
26 Methyl tert-butyl ether	73	3.775	3.769	0.006	93	751882	150.0	159.2	
27 Hexane	57	4.047	4.047	0.000	93	1079598	150.0	151.1	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	981271	150.0	155.2	
29 Vinyl acetate	43	4.262	4.257	0.005	100	619370	150.0	170.6	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	73	836376	150.0	151.5	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	84	530638	150.0	152.4	
35 2-Butanone (MEK)	43	4.807	4.808	-0.001	96	89825	150.0	148.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	89	218243	150.0	156.7	
40 Tetrahydrofuran	42	5.064	5.070	-0.006	90	117067	300.0	299.1	
41 Chloroform	83	5.106	5.106	0.000	84	817902	150.0	148.4	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	69	486345	150.0	153.0	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	90	859999	150.0	153.2	
44 Cyclohexane	56	5.332	5.332	0.000	87	1206245	150.0	151.2	
45 Carbon tetrachloride	117	5.447	5.447	0.000	78	847790	150.0	152.9	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	88	709678	150.0	154.4	
47 Isobutyl alcohol	43	5.589	5.589	0.000	73	169133	3750.0	3840.1	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	437116	150.0	152.7	
49 Benzene	78	5.657	5.657	0.000	95	1817837	150.0	150.0	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	83	554700	150.0	153.8	
53 n-Heptane	43	5.929	5.930	-0.001	95	1112488	150.0	151.4	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	79	606934	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	89	622574	150.0	157.7	
58 Methylcyclohexane	83	6.506	6.506	0.000	92	939364	150.0	155.1	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	90	485589	150.0	156.6	
* 61 1,4-Dioxane-d8	96	6.642	6.637	0.005	0	11817	1000.0	1000.0	
63 Dibromomethane	93	6.663	6.664	-0.001	84	197991	150.0	155.4	
64 1,4-Dioxane	88	6.690	6.690	0.000	93	34576	3000.0	2976.3	
65 Dichlorobromomethane	83	6.831	6.826	0.005	91	573201	150.0	154.7	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	92	153308	150.0	152.9	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	88	653333	150.0	157.0	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	97	191062	150.0	149.0	
$ 70 Toluene-d8 (Surr)	98	7.586	7.581	0.005	94	1827526	150.0	150.0	
71 Toluene	92	7.654	7.655	-0.001	91	1221461	150.0	146.7	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	91	510271	150.0	161.0	
73 Ethyl methacrylate	69	8.000	7.995	0.005	79	275831	150.0	153.3	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	88	262539	150.0	156.2	
75 Tetrachloroethene	166	8.247	8.247	0.000	89	689900	150.0	153.7	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	95	446060	150.0	158.2	
77 2-Hexanone	43	8.373	8.373	0.000	97	122458	150.0	147.9	
79 Chlorodibromomethane	129	8.525	8.525	0.000	89	410219	150.0	160.1	
80 Ethylene Dibromide	107	8.651	8.651	0.000	99	268391	150.0	160.9	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	460671	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	94	1353794	150.0	152.3	
84 1,1,1,2-Tetrachloroethane	131	9.295	9.296	-0.001	90	498159	150.0	158.6	
85 Ethylbenzene	106	9.332	9.327	0.005	99	780736	150.0	153.0	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	1825395	150.0	149.3	
87 o-Xylene	91	9.919	9.920	-0.001	94	1824110	150.0	150.4	
88 Styrene	104	9.940	9.935	0.005	94	1392494	150.0	153.3	
89 Bromoform	173	10.145	10.145	0.000	97	219829	150.0	162.7	
90 Isopropylbenzene	105	10.355	10.355	0.000	98	2454125	150.0	154.9	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	91	628101	150.0	150.6	
93 Bromobenzene	156	10.706	10.706	0.000	83	563045	150.0	155.8	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	62	235073	150.0	152.8	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	55	271746	150.0	157.3	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	44	102459	150.0	150.8	
97 N-Propylbenzene	91	10.842	10.842	0.000	97	2793775	150.0	153.0	
98 2-Chlorotoluene	91	10.937	10.937	0.000	98	1521956	150.0	151.3	
99 1,3,5-Trimethylbenzene	105	11.057	11.052	0.005	90	1915898	150.0	151.7	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	1740678	150.0	149.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.445	11.445	0.000	86	1854954	150.0	153.5	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	74	1885413	150.0	152.5	
105 sec-Butylbenzene	105	11.707	11.707	0.000	95	2638938	150.0	150.6	
106 1,3-Dichlorobenzene	146	11.833	11.833	0.000	96	1084515	150.0	152.2	
107 tert-Butylbenzene	119	11.886	11.886	0.000	68	2302398	150.0	151.5	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	229951	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	94	1027877	150.0	148.9	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	2011787	150.0	150.7	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	68	911901	150.0	153.8	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	66	39386	150.0	147.8	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	90	661322	150.0	148.9	
117 Hexachlorobutadiene	225	14.580	14.581	-0.001	82	489377	150.0	150.5	
118 Naphthalene	128	14.659	14.659	0.000	99	882049	150.0	152.4	
119 1,2,3-Trichlorobenzene	180	14.963	14.958	0.005	93	535604	150.0	151.8	
S 122 1,2-Dichloroethene, Total	1				0			303.9	
S 123 Xylenes, Total	1				0			299.7	
S 124 1,3-Dichloropropene, Total	1				0			318.0	
S 125 Trihalomethanes, Total	1				0			625.9	
S 126 Trimethylbenzene, Total	1				0			304.3	

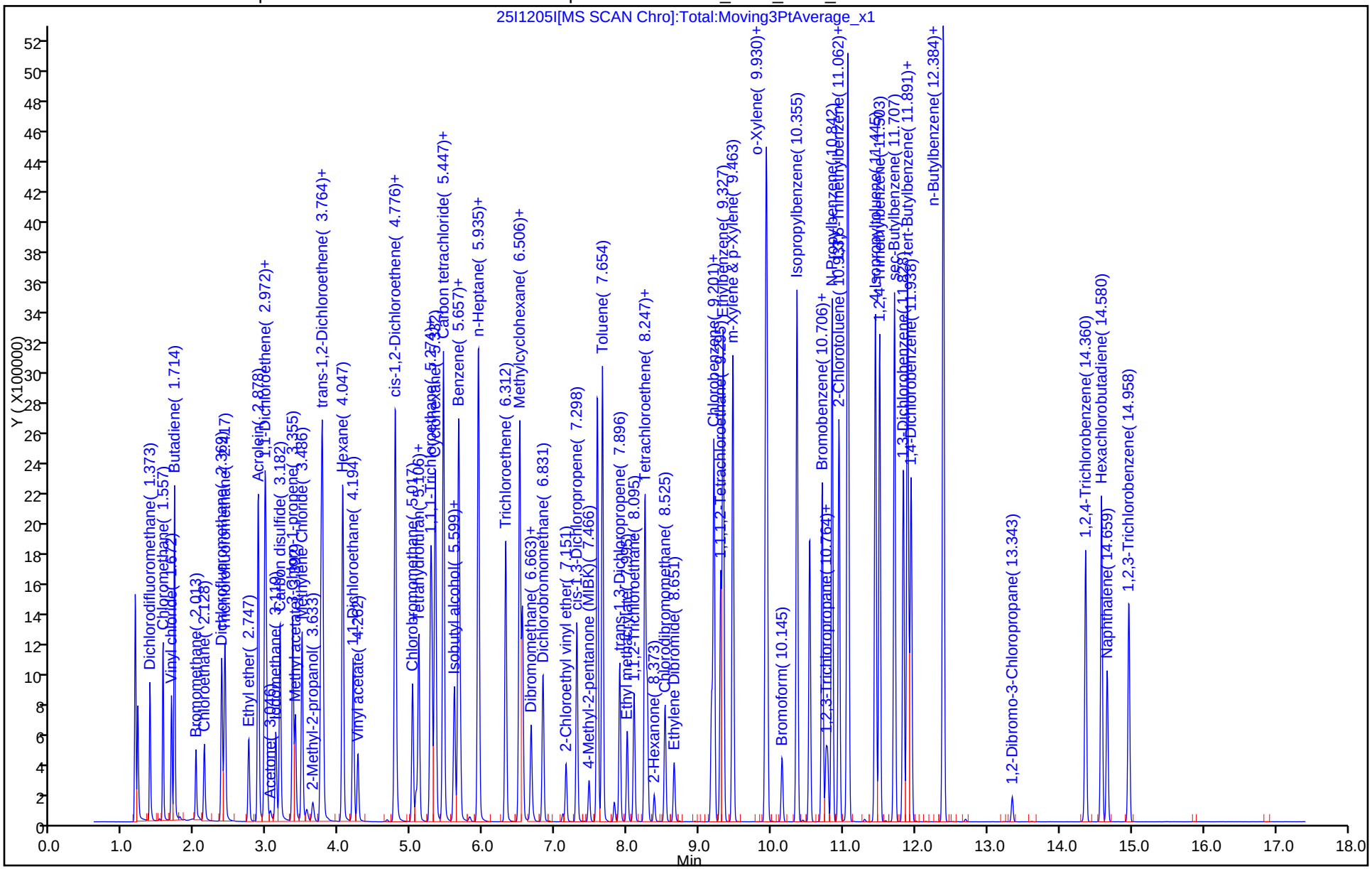
Reagents:

8260 LOWSS1_00124	Amount Added: 15.00	Units: uL
8260/624GASWK_00411	Amount Added: 7.50	Units: uL
8260/624KETWK_00236	Amount Added: 7.50	Units: uL
8260VA/2CEVE_00241	Amount Added: 7.50	Units: uL
8260/624ACRWK_00299	Amount Added: 7.50	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
8260/624MEGWK_00347	Amount Added: 7.50	Units: uL

Report Date: 06-Dec-2016 11:57:14 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205I.d				
Injection Date:	05-Dec-2016 19:16:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD09			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205J.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Dec-2016 19:44:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 500-0042086-011
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:19 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	70	882361	200.0	210.5	
2 Chloromethane	50	1.551	1.552	-0.001	89	1131914	200.0	223.8	
3 Vinyl chloride	62	1.672	1.672	0.000	83	914730	200.0	228.2	
4 Butadiene	39	1.714	1.714	0.000	84	858791	200.0	221.7	
5 Bromomethane	94	2.013	2.013	0.000	90	289889	200.0	221.3	
6 Chloroethane	64	2.128	2.128	0.000	92	502390	200.0	215.9	
7 Dichlorofluoromethane	67	2.369	2.370	-0.001	84	1293530	200.0	211.5	
8 Trichlorofluoromethane	101	2.411	2.412	-0.001	80	1280913	200.0	217.8	
10 Ethyl ether	59	2.747	2.747	0.000	98	391370	200.0	205.7	
11 Acrolein	56	2.878	2.878	0.000	95	2223506	8000.0	8616.7	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	85	646788	200.0	209.5	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	82	731336	200.0	212.6	
14 Acetone	43	3.046	3.051	-0.005	98	74667	200.0	202.8	
15 Iodomethane	142	3.119	3.119	0.000	99	885318	200.0	201.3	
16 Carbon disulfide	76	3.177	3.177	0.000	99	2122604	200.0	204.9	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	82	318129	200.0	198.4	
20 Methyl acetate	43	3.392	3.392	0.000	99	1055627	1000.0	1055.5	
21 Methylene Chloride	84	3.486	3.486	0.000	91	555866	200.0	199.0	
* 22 TBA-d9 (IS)	65	3.554	3.549	0.005	0	85419	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.638	3.633	0.005	98	219349	2000.0	1972.0	
24 Acrylonitrile	53	3.748	3.743	0.005	97	1201731	2000.0	2056.7	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	90	689971	200.0	207.3	
26 Methyl tert-butyl ether	73	3.774	3.769	0.005	93	988332	200.0	212.4	
27 Hexane	57	4.047	4.047	0.000	92	1453359	200.0	206.5	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	1299932	200.0	208.7	
29 Vinyl acetate	43	4.262	4.257	0.005	100	840656	200.0	235.1	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	72	1109868	200.0	204.1	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	84	698504	200.0	203.6	
35 2-Butanone (MEK)	43	4.802	4.808	-0.006	80	121637	200.0	204.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	90	282979	200.0	206.2	
40 Tetrahydrofuran	42	5.064	5.070	-0.006	90	155479	400.0	404.1	
41 Chloroform	83	5.106	5.106	0.000	84	1085752	200.0	200.0	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	68	654431	200.0	209.0	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	90	1147050	200.0	207.4	
44 Cyclohexane	56	5.332	5.332	0.000	91	1627889	200.0	207.1	
45 Carbon tetrachloride	117	5.447	5.447	0.000	78	1128147	200.0	206.6	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	88	943560	200.0	208.4	
47 Isobutyl alcohol	43	5.589	5.589	0.000	71	227355	5000.0	5315.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	585069	200.0	207.5	
49 Benzene	78	5.657	5.657	0.000	95	2398576	200.0	200.9	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	83	730956	200.0	205.7	
53 n-Heptane	43	5.929	5.930	-0.001	95	1493598	200.0	206.3	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	68	597856	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	89	831180	200.0	213.7	
58 Methylcyclohexane	83	6.506	6.506	0.000	90	1253201	200.0	210.0	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	90	641355	200.0	210.0	
* 61 1,4-Dioxane-d8	96	6.642	6.637	0.005	0	12383	1000.0	1000.0	
63 Dibromomethane	93	6.663	6.664	-0.001	84	261675	200.0	208.5	
64 1,4-Dioxane	88	6.690	6.690	0.000	91	46940	4000.0	3855.9	
65 Dichlorobromomethane	83	6.831	6.826	0.005	90	759163	200.0	208.1	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	92	216408	200.0	224.2	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	87	861605	200.0	215.5	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	97	262967	200.0	213.4	
$ 70 Toluene-d8 (Surr)	98	7.586	7.581	0.005	94	2474906	200.0	211.4	
71 Toluene	92	7.654	7.655	-0.001	94	1626023	200.0	203.2	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	88	673439	200.0	221.1	
73 Ethyl methacrylate	69	8.000	7.995	0.005	62	364312	200.0	210.7	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	89	344532	200.0	213.3	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	924928	200.0	214.4	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	96	585840	200.0	216.3	
77 2-Hexanone	43	8.373	8.373	0.000	97	169129	200.0	212.6	
79 Chlorodibromomethane	129	8.525	8.525	0.000	89	545057	200.0	221.4	
80 Ethylene Dibromide	107	8.651	8.651	0.000	99	354713	200.0	221.3	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	442655	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	81	1788056	200.0	209.3	
84 1,1,1,2-Tetrachloroethane	131	9.295	9.296	-0.001	90	659202	200.0	218.4	
85 Ethylbenzene	106	9.332	9.327	0.005	99	1035601	200.0	211.2	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	2421717	200.0	206.2	
87 o-Xylene	91	9.919	9.920	-0.001	94	2405824	200.0	206.4	
88 Styrene	104	9.940	9.935	0.005	94	1832154	200.0	210.0	
89 Bromoform	173	10.145	10.145	0.000	98	286788	200.0	220.8	
90 Isopropylbenzene	105	10.355	10.355	-0.001	98	3233370	200.0	214.0	
$ 92 4-Bromofluorobenzene (Surr	95	10.533	10.528	0.005	95	835900	200.0	210.3	
93 Bromobenzene	156	10.706	10.706	0.000	83	743817	200.0	215.9	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	63	309774	200.0	211.2	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	55	354619	200.0	215.3	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	72	131254	200.0	202.6	
97 N-Propylbenzene	91	10.842	10.842	0.000	97	3675358	200.0	211.1	
98 2-Chlorotoluene	91	10.936	10.937	-0.001	98	2015768	200.0	210.2	
99 1,3,5-Trimethylbenzene	105	11.057	11.052	0.005	91	2530344	200.0	210.2	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	2307413	200.0	207.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.445	11.445	0.000	84	2444128	200.0	212.2	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	69	2484394	200.0	210.8	
105 sec-Butylbenzene	105	11.707	11.707	0.000	95	3480684	200.0	208.3	
106 1,3-Dichlorobenzene	146	11.833	11.833	0.000	96	1434829	200.0	211.2	
107 tert-Butylbenzene	119	11.885	11.886	-0.001	68	3047359	200.0	210.3	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	219232	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	94	1371473	200.0	208.4	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	2663230	200.0	209.2	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	68	1198339	200.0	212.0	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	64	51311	200.0	201.8	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	90	893115	200.0	210.9	
117 Hexachlorobutadiene	225	14.580	14.581	-0.001	83	637363	200.0	205.6	
118 Naphthalene	128	14.659	14.659	0.000	99	1161162	200.0	210.4	
119 1,2,3-Trichlorobenzene	180	14.963	14.958	0.005	92	716435	200.0	213.0	
S 122 1,2-Dichloroethene, Total	1				0			410.9	
S 123 Xylenes, Total	1				0			412.6	
S 124 1,3-Dichloropropene, Total	1				0			436.6	
S 125 Trihalomethanes, Total	1				0			850.3	
S 126 Trimethylbenzene, Total	1				0			421.0	

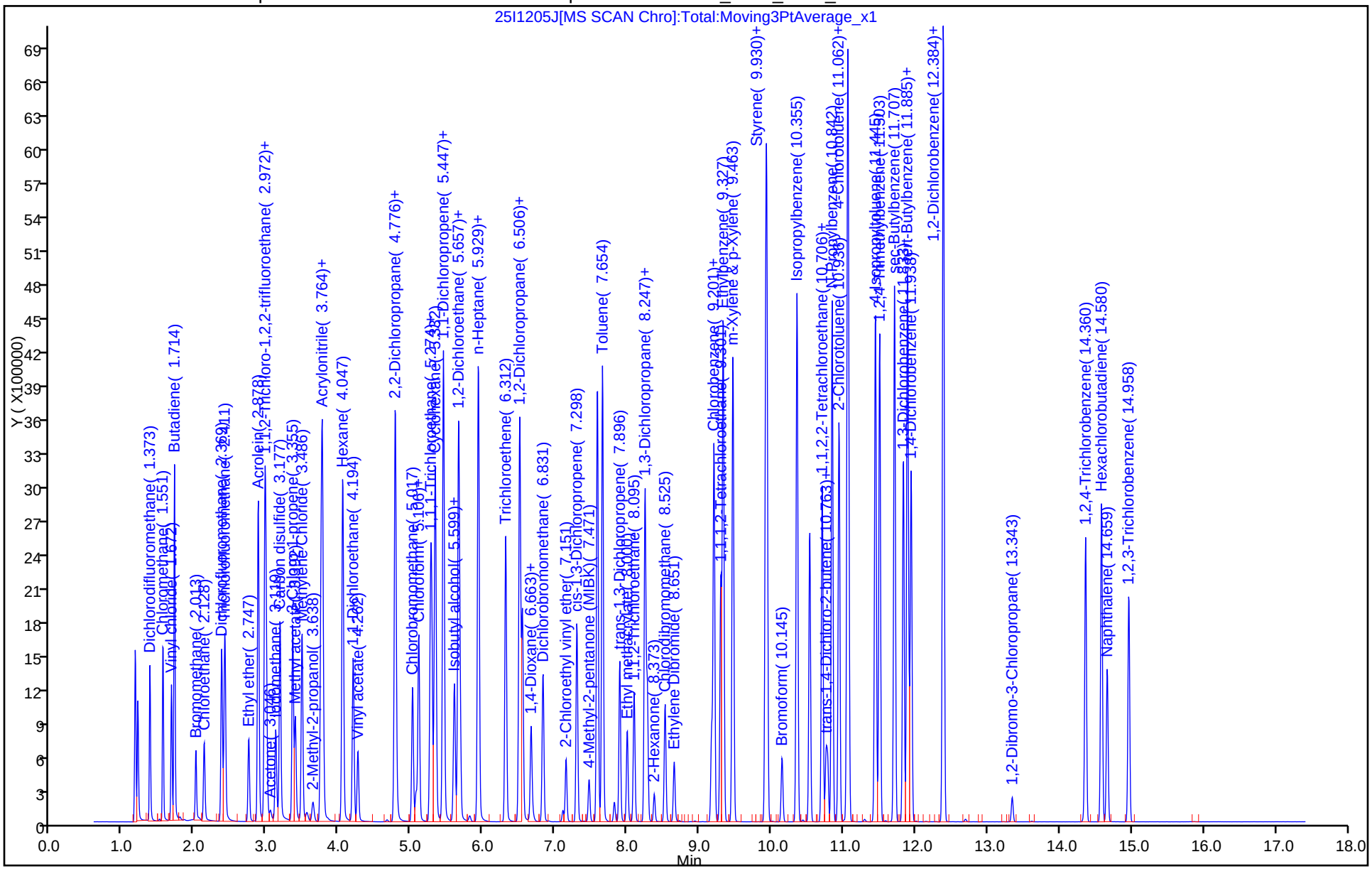
Reagents:

8260 LOWSS1_00124	Amount Added: 20.00	Units: uL
8260/624GASWK_00411	Amount Added: 10.00	Units: uL
8260/624KETWK_00236	Amount Added: 10.00	Units: uL
8260VA/2CEVE_00241	Amount Added: 10.00	Units: uL
8260/624ACRWK_00299	Amount Added: 10.00	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
8260/624MEGWK_00347	Amount Added: 10.00	Units: uL

Report Date: 06-Dec-2016 11:57:19 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205J.d				
Injection Date:	05-Dec-2016 19:44:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD10			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d
Lims ID: STD03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Dec-2016 01:45:30 ALS Bottle#: 24 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03
Misc. Info.: 500-0042086-027
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:58:13 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:58:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	79	2862	1.00	1.28	
2 Chloromethane	50	1.552	1.552	0.000	82	5140	1.00	1.03	
3 Vinyl chloride	62	1.672	1.672	0.000	61	3633	1.00	0.9202	
4 Butadiene	39	1.714	1.714	0.000	85	3516	1.00	0.9217	
6 Chloroethane	64	2.128	2.128	0.000	55	2084	1.00	0.9092	
7 Dichlorofluoromethane	67	2.370	2.370	0.000	61	5810	1.00	0.9645	
8 Trichlorofluoromethane	101	2.412	2.412	0.000	60	5312	1.00	0.9169	
10 Ethyl ether	59	2.747	2.747	0.000	76	1834	1.00	0.9788	
11 Acrolein	56	2.878	2.878	0.000	89	8751	40.0	34.4	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	76	2725	1.00	0.8961	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	47	2912	1.00	0.8594	
16 Carbon disulfide	76	3.177	3.177	0.000	96	10000	1.00	0.9800	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	85	1544	1.00	0.9778	
20 Methyl acetate	43	3.397	3.392	0.005	94	5028	5.00	5.10	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	89689	1000.0	1000.0	
24 Acrylonitrile	53	3.748	3.743	0.005	95	5477	10.0	9.52	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	87	3309	1.00	1.01	
26 Methyl tert-butyl ether	73	3.775	3.769	0.006	79	4091	1.00	0.8926	
27 Hexane	57	4.047	4.047	0.000	85	7078	1.00	1.02	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	52	5676	1.00	0.9251	
29 Vinyl acetate	43	4.262	4.257	0.005	74	2860	1.00	0.8121	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	62	5177	1.00	0.9666	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	83	3403	1.00	1.01	
39 Chlorobromomethane	128	5.023	5.017	0.006	71	1276	1.00	0.9442	
41 Chloroform	83	5.106	5.106	0.000	67	5741	1.00	1.07	
43 1,1,1-Trichloroethane	97	5.285	5.279	0.006	65	5214	1.00	0.9571	
44 Cyclohexane	56	5.332	5.332	0.000	86	7542	1.00	0.9743	
45 Carbon tetrachloride	117	5.442	5.447	-0.005	66	5076	1.00	0.9438	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	76	4313	1.00	0.9673	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
49 Benzene	78	5.657	5.657	0.000	90	11251	1.00	0.9569	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	59	3297	1.00	0.9422	
53 n-Heptane	43	5.930	5.930	0.000	37	7126	1.00	1.00	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	588847	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	75	3420	1.00	0.8929	
58 Methylcyclohexane	83	6.506	6.506	0.000	82	5634	1.00	0.9587	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	56	2784	1.00	0.9256	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	10998	1000.0	1000.0	
63 Dibromomethane	93	6.664	6.664	0.000	62	1142	1.00	0.9240	
65 Dichlorobromomethane	83	6.826	6.826	0.000	68	3294	1.00	0.9165	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	54	3684	1.00	0.8893	
71 Toluene	92	7.655	7.655	0.000	90	7974	1.00	0.9618	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	55	2595	1.00	0.8224	
73 Ethyl methacrylate	69	8.001	7.995	0.006	49	1801	1.00	1.01	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	36	1533	1.00	0.9161	
75 Tetrachloroethene	166	8.247	8.247	0.000	74	4218	1.00	0.9437	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	70	2400	1.00	0.8551	
79 Chlorodibromomethane	129	8.525	8.525	0.000	23	2234	1.00	0.8759	
80 Ethylene Dibromide	107	8.651	8.651	0.000	39	1368	1.00	0.8238	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	458632	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	43	8341	1.00	0.9425	
84 1,1,1,2-Tetrachloroethane	131	9.296	9.296	0.000	67	2798	1.00	0.8948	
85 Ethylbenzene	106	9.332	9.327	0.005	90	4723	1.00	0.9296	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	11494	1.00	0.9444	
87 o-Xylene	91	9.920	9.920	0.000	86	11125	1.00	0.9213	
88 Styrene	104	9.941	9.935	0.006	85	8712	1.00	0.9636	
89 Bromoform	173	10.150	10.145	0.005	30	1065	1.00	0.7915	
90 Isopropylbenzene	105	10.355	10.355	0.000	85	14459	1.00	0.9210	
93 Bromobenzene	156	10.706	10.706	0.000	71	3423	1.00	0.9560	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	1	1422	1.00	0.9330	
95 1,2,3-Trichloropropane	75	10.764	10.758	0.006	5	1566	1.00	0.9147	
96 trans-1,4-Dichloro-2-buten	53	10.785	10.779	0.006	1	692	1.00	1.03	
97 N-Propylbenzene	91	10.842	10.842	0.000	88	16995	1.00	0.9394	
98 2-Chlorotoluene	91	10.937	10.937	0.000	72	9575	1.00	0.9608	
99 1,3,5-Trimethylbenzene	105	11.052	11.052	0.000	84	12244	1.00	0.9787	
100 4-Chlorotoluene	91	11.068	11.068	0.000	86	11142	1.00	0.9644	
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	66	11364	1.00	0.9494	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	53	11469	1.00	0.9366	
105 sec-Butylbenzene	105	11.707	11.707	0.000	77	16717	1.00	0.9627	
106 1,3-Dichlorobenzene	146	11.833	11.833	0.000	66	6783	1.00	0.9608	
107 tert-Butylbenzene	119	11.886	11.886	0.000	71	13693	1.00	0.9093	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	227817	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	12	6635	1.00	0.9704	
112 n-Butylbenzene	91	12.384	12.384	0.000	86	12407	1.00	0.9379	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	50	5479	1.00	0.9327	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	49	4187	1.00	0.9515	
117 Hexachlorobutadiene	225	14.581	14.581	0.000	48	3204	1.00	0.99	
118 Naphthalene	128	14.665	14.659	0.005	54	5720	1.00	1.00	
119 1,2,3-Trichlorobenzene	180	14.958	14.958	0.000	53	3292	1.00	0.9418	
S 122 1,2-Dichloroethene, Total	1				0			2.02	
S 123 Xylenes, Total	1				0			1.87	
S 124 1,3-Dichloropropene, Total	1				0			1.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 125 Trihalomethanes, Total	1				0			3.66	
S 126 Trimethylbenzene, Total	1				0			1.92	

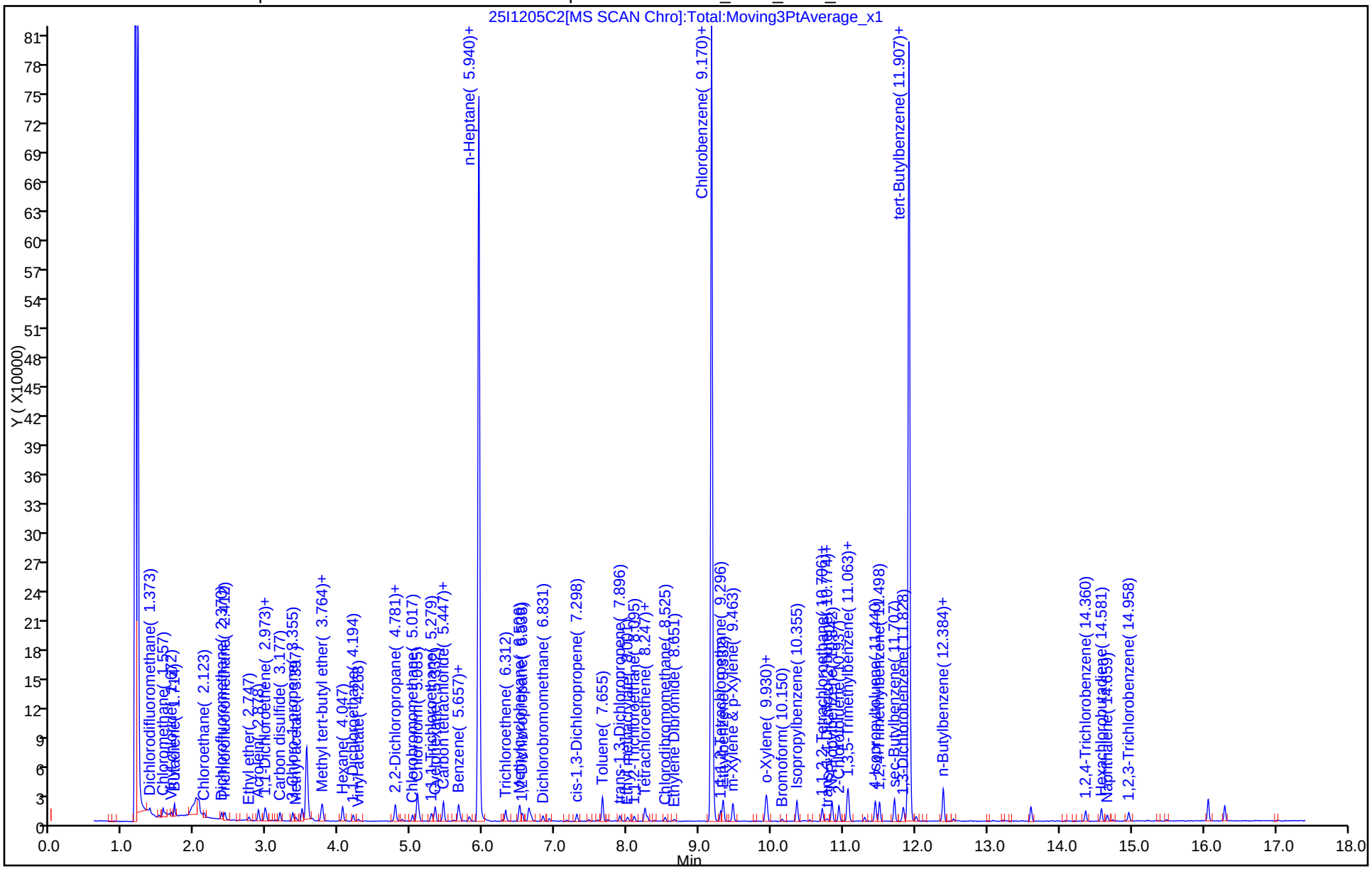
Reagents:

8260 LOWIS1_00104	Amount Added:	5.00	Units: uL	
LOW8260ACR_00155	Amount Added:	1.00	Units: uL	
LO8260/624STD_00216	Amount Added:	1.00	Units: uL	

Report Date: 06-Dec-2016 11:58:14 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d				
Injection Date:	06-Dec-2016 01:45:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD03			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 20:39 Calibration End Date: 12/06/2016 00:49 Calibration ID: 23752

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-363659/13	25J1205C.d
Level 2	STD04AP 500-363659/14	25J1205D.d
Level 3	STD05AP 500-363659/15	25J1205E.d
Level 4	STD06AP 500-363659/16	25J1205F.d
Level 5	STD07AP 500-363659/17	25J1205G.d
Level 6	STD08AP 500-363659/18	25J1205H.d
Level 7	STD09AP 500-363659/19	25J1205I.d
Level 8	STD10AP 500-363659/20	25J1205J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.1704	0.3896 0.1580	0.2992 0.1652	0.1853	0.1581	Lin1	20.687	0.1595			0.0010				0.9980		0.9900
Isopropyl alcohol	1.2765 0.8400	1.1953 0.8104	1.0612 0.8528	0.9057	0.8166	Lin1	6.1698	0.8316			0.0010				0.9990		0.9900
Acetonitrile	0.0122 0.0132	0.0154 0.0134	0.0148 0.0134	0.0135	0.0130	Ave		0.0136			0.0010	7.5		15.0			
Isopropyl ether	0.8948 0.8791	0.8876 0.8905	0.8879 0.8991	0.9002	0.8424	Ave		0.8852			0.0100	2.1		15.0			
2-Chloro-1,3-butadiene	0.6805 0.6602	0.6359 0.6461	0.6553 0.6687	0.6929	0.6626	Ave		0.6628			0.0100	2.7		15.0			
Tert-butyl ethyl ether	0.6678 0.6655	0.6495 0.6722	0.6699 0.6763	0.6760	0.6415	Ave		0.6648			0.0010	1.9		15.0			
Propionitrile	0.0183 0.0164	0.0177 0.0166	0.0186 0.0166	0.0170	0.0162	Ave		0.0172			0.0010	5.3		15.0			
Ethyl acetate	0.1514 0.1137	0.1196 0.1145	0.1229 0.1160	0.1185	0.1195	Ave		0.1220			0.0100	10.1		15.0			
Methacrylonitrile	0.0709 0.0773	0.0765 0.0773	0.0772 0.0782	0.0800	0.0812	Ave		0.0773			0.0100	3.9		15.0			
Isooctane	1.5227 1.4884	1.4607 1.4492	1.5054 1.4802	1.5880	1.5151	Ave		1.5012			0.0100	2.9		15.0			
Tert-amyl methyl ether	0.4218 0.4251	0.4300 0.4309	0.4326 0.4309	0.4431	0.4144	Ave		0.4286			0.0100	2.0		15.0			
n-Butyl alcohol	0.3744 0.3114	0.3626 0.3090	0.3043 0.3358	0.2659	0.2955	Ave		0.3199			0.0010	11.2		15.0			
Ethyl acrylate	0.1725 0.1812	0.1774 0.1798	0.1609 0.1863	0.1793	0.1875	Ave		0.1781			0.0010	4.7		15.0			
2,3-Dichloro-1-propene	0.3645 0.3968	0.3665 0.3886	0.3764 0.3853	0.3978	0.4152	Ave		0.3864			0.0010	4.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 20:39 Calibration End Date: 12/06/2016 00:49 Calibration ID: 23752

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	0.1256 0.1180	0.1063 0.1190	0.1094 0.1202	0.1209	0.1225	Ave		0.1178			0.0100	5.6		15.0			
2-Nitropropane	0.0548 0.0580	0.0501 0.0567	0.0529 0.0600	0.0564	0.0602	Ave		0.0561			0.0100	6.2		15.0			
n-Butyl acetate	0.2695 0.2609	0.2534 0.2565	0.2388 0.2688	0.2639	0.2757	Ave		0.2610			0.0010	4.4		15.0			
1-Chlorohexane	1.1840 0.5313	0.8086 0.5071	0.6375 0.5393	0.5686	0.5318	Lin1	0.6289	0.5227			0.0100				0.9990		0.9900
Cyclohexanone	0.0111 0.0099	0.0095 0.0091	0.0094 0.0095	0.0098	0.0099	Ave		0.0098		*	0.0100	6.3		15.0			
2-Ethyltoluene	3.3053 3.3496	3.1341 3.2081	3.3477 3.3667	3.6498	3.4610	Ave		3.3528			0.0010	4.7		15.0			
Pentachloroethane	0.4334 0.4802	0.4274 0.4538	0.4407 0.4628	0.4362	0.4606	Ave		0.4494			0.0100	4.0		15.0			
1,2,3-Trimethylbenzene	2.6460 2.6513	2.4095 2.5575	2.5726 2.7431	2.7702	2.6348	Ave		2.6231			0.0010	4.3		15.0			
Benzyl chloride	0.1537 0.1640	0.1522 0.1632	0.1573 0.1730	0.1662	0.1645	Ave		0.1618			0.0010	4.3		15.0			
1,3,5-Trichlorobenzene	1.2052 1.2662	1.1916 1.2277	1.2485 1.3117	1.3059	1.2418	Ave		1.2498			0.0100	3.5		15.0			
2-Methylnaphthalene	0.8396 0.8654	0.7582 0.8572	0.7974 0.8916	0.8528	0.8493	Ave		0.8389			0.0100	5.0		15.0			
1-Methylnaphthalene	0.6178 0.6212	0.5421 0.6174	0.5700 0.6375	0.6219	0.6050	Ave		0.6041			0.0100	5.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 20:39 Calibration End Date: 12/06/2016 00:49 Calibration ID: 23752

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-363659/13	25J1205C.d
Level 2	STD04AP 500-363659/14	25J1205D.d
Level 3	STD05AP 500-363659/15	25J1205E.d
Level 4	STD06AP 500-363659/16	25J1205F.d
Level 5	STD07AP 500-363659/17	25J1205G.d
Level 6	STD08AP 500-363659/18	25J1205H.d
Level 7	STD09AP 500-363659/19	25J1205I.d
Level 8	STD10AP 500-363659/20	25J1205J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	TBAd 9	Lin1	+++++ 57193	2584 83505	4960 110815	12024	26660	+++++ 4000	80.0 6000	200 8000	800	2000
Isopropyl alcohol	TBAd 9	Lin1	1072 70478	1982 107070	4398 143018	14690	34429	10.0 1000	20.0 1500	50.0 2000	200	500
Acetonitrile	FB	Ave	1386 153038	3496 241421	8301 318723	30410	72239	10.0 1000	20.0 1500	50.0 2000	200	500
Isopropyl ether	FB	Ave	10201 1016089	20089 1605660	49942 2139829	202340	466833	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	7758 763069	14391 1165071	36857 1591370	155735	367208	1.00 100	2.00 150	5.00 200	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	7613 769125	14700 1212148	37681 1609548	151943	355469	1.00 100	2.00 150	5.00 200	20.0	50.0
Propionitrile	FB	Ave	2089 189409	4006 299301	10444 396017	38254	89692	10.0 1000	20.0 1500	50.0 2000	200	500
Ethyl acetate	FB	Ave	3452 262742	5414 412859	13827 551971	53249	132396	2.00 200	4.00 300	10.0 400	40.0	100
Methacrylonitrile	FB	Ave	8084 893290	17317 1394695	43406 1861671	179719	449790	10.0 1000	20.0 1500	50.0 2000	200	500
Isooctane	FB	Ave	17359 1720225	33060 2613260	84675 3522757	356939	839611	1.00 100	2.00 150	5.00 200	20.0	50.0
Tert-amyl methyl ether	FB	Ave	4809 491347	9731 776970	24333 1025371	99596	229623	1.00 100	2.00 150	5.00 200	20.0	50.0
n-Butyl alcohol	TBAd 9	Ave	786 65324	1503 102062	3153 140784	10781	31152	25.0 2500	50.0 3750	125 5000	500	1250
Ethyl acrylate	FB	Ave	1967 209397	4015 324291	9051 443281	40303	103893	1.00 100	2.00 150	5.00 200	20.0	50.0
2,3-Dichloro-1-propene	FB	Ave	4155 458587	8295 700802	21173 916855	89412	230095	1.00 100	2.00 150	5.00 200	20.0	50.0
Methyl methacrylate	FB	Ave	2864 272876	4813 429169	12312 572103	54338	135814	2.00 200	4.00 300	10.0 400	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136029-1 Analy Batch No.: 363659

SDG No.:

Instrument ID: CMS25 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2016 20:39 Calibration End Date: 12/06/2016 00:49 Calibration ID: 23752

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Nitropropane	CBNZ d5	Ave	951 99201	1735 154667	4575 208690	19000	49949	2.00 200	4.00 300	10.0 400	40.0	100
n-Butyl acetate	CBNZ d5	Ave	2341 223134	4389 350111	10323 467338	44454	114442	1.00 100	2.00 150	5.00 200	20.0	50.0
1-Chlorohexane	CBNZ d5	Lin1	10283 454305	14002 692162	27563 937424	95771	220712	1.00 100	2.00 150	5.00 200	20.0	50.0
Cyclohexanone	DCBd 4	Ave	5008 423071	8427 622511	20778 821521	81690	204935	100 10000	200 15000	500 20000	2000	5000
2-Ethyltoluene	DCBd 4	Ave	14878 1427719	27848 2203464	73720 2900559	302824	715136	1.00 100	2.00 150	5.00 200	20.0	50.0
Pentachloroethane	DCBd 4	Ave	1951 204677	3798 311663	9704 398713	36188	95163	1.00 100	2.00 150	5.00 200	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	11910 1130060	21410 1756630	56651 2363313	229848	544418	1.00 100	2.00 150	5.00 200	20.0	50.0
Benzyl chloride	DCBd 4	Ave	692 69924	1352 112063	3464 149054	13791	33981	1.00 100	2.00 150	5.00 200	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	5425 539705	10588 843240	27494 1130054	108351	256590	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	3779 368877	6737 588783	17559 768138	70761	175484	1.00 100	2.00 150	5.00 200	20.0	50.0
1-Methylnaphthalene	DCBd 4	Ave	2781 264765	4817 424054	12552 549194	51600	125013	1.00 100	2.00 150	5.00 200	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205C.d
Lims ID: STD03AP
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Dec-2016 20:39:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03AP
Misc. Info.: 500-0042086-013
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:26 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:57:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
17 Isopropyl alcohol	45	3.240	3.224	0.016	43	1072	10.0	7.93	
18 Acetonitrile	41	3.345	3.339	0.006	74	1386	10.0	8.93	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	83978	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	86	10201	1.00	1.01	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	76	7758	1.00	1.03	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	85	7613	1.00	1.00	
36 Propionitrile	54	4.876	4.865	0.011	44	2089	10.0	10.7	
37 Ethyl acetate	43	4.876	4.870	0.006	79	3452	2.00	2.48	M
38 Methacrylonitrile	41	5.017	5.017	0.000	86	8084	10.0	9.17	
51 Isooctane	57	5.741	5.741	0.000	88	17359	1.00	1.01	
52 Tert-amyl methyl ether	73	5.777	5.772	0.005	58	4809	1.00	0.9842	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	570010	50.0	50.0	
55 n-Butanol	56	6.281	6.260	0.021	53	786	25.0	29.3	M
57 Ethyl acrylate	55	6.433	6.433	0.000	7	1967	1.00	0.9687	
60 2,3-Dichloro-1-propene	75	6.595	6.590	0.005	67	4155	1.00	0.9433	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	9961	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	66	2864	2.00	2.13	
66 2-Nitropropane	43	7.072	7.072	0.000	62	951	2.00	1.95	
78 n-Butyl acetate	43	8.520	8.520	0.000	74	2341	1.00	1.03	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	434244	50.0	50.0	
82 1-Chlorohexane	55	9.175	9.180	-0.005	32	10283	1.00	1.06	
91 Cyclohexanone	55	10.459	10.459	0.000	63	5008	100.0	113.6	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	14878	1.00	0.9858	
103 Pentachloroethane	167	11.461	11.461	0.000	44	1951	1.00	0.9645	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	225060	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	74	11910	1.00	1.01	
111 Benzyl chloride	126	12.111	12.111	0.000	45	692	1.00	0.9504	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	63	5425	1.00	0.9643	
120 2-Methylnaphthalene	142	16.064	16.064	0.000	9	3779	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	2781	1.00	1.02	

QC Flag Legend

Review Flags

M - Manually Integrated

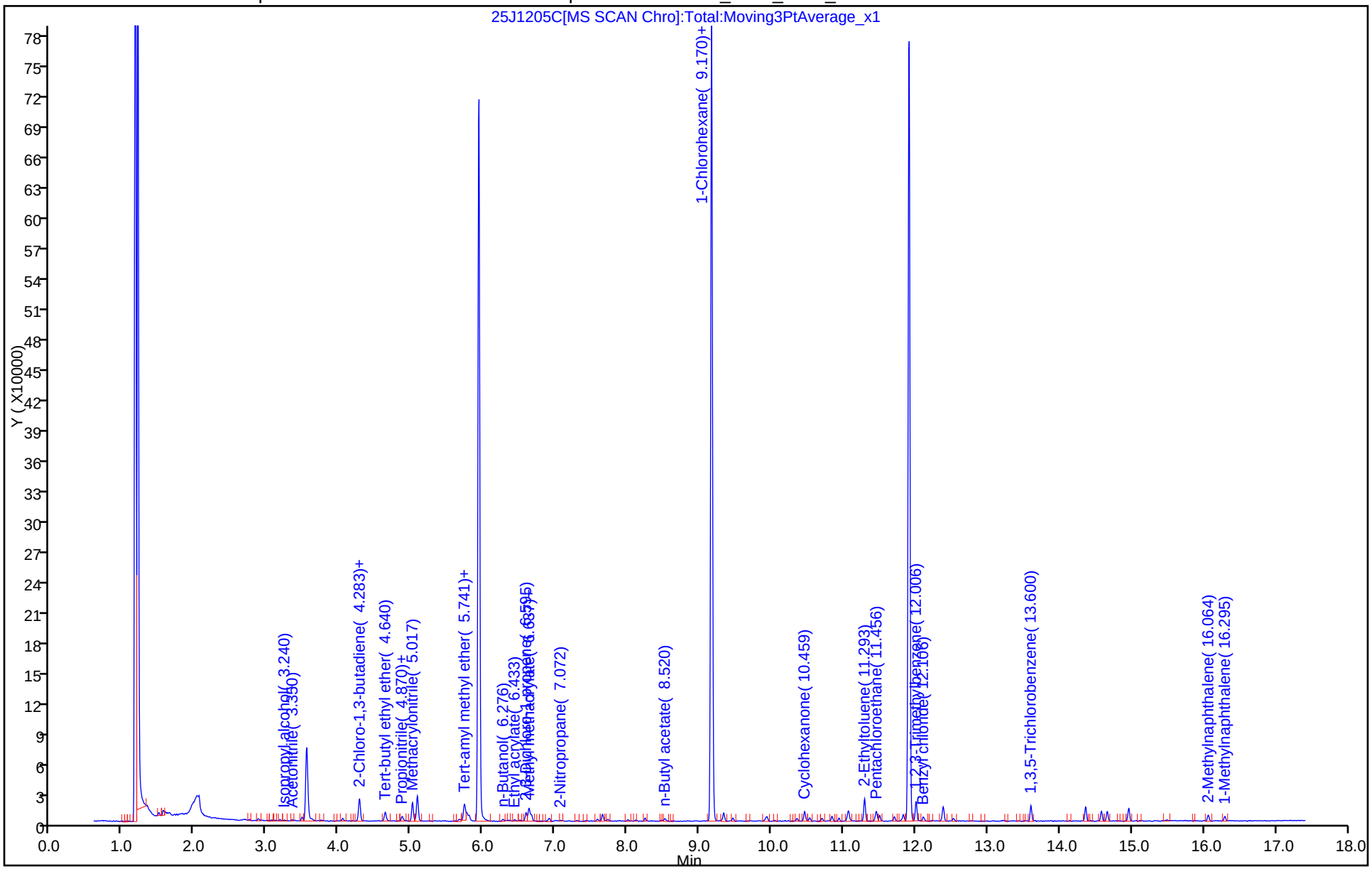
Reagents:

LO8260ADDS_00017	Amount Added:	1.00	Units: uL
LO8260POLRADD_00075	Amount Added:	1.00	Units: uL
LOW8260STD2_00133	Amount Added:	1.00	Units: uL
LOWCYCHXWK_00134	Amount Added:	1.00	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
LOW2,3-DICP_00052	Amount Added:	1.00	Units: uL
LOW2ETTOL STD_00008	Amount Added:	1.00	Units: uL

Report Date: 06-Dec-2016 11:57:26 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205C.d				
Injection Date:	05-Dec-2016 20:39:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD03AP			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

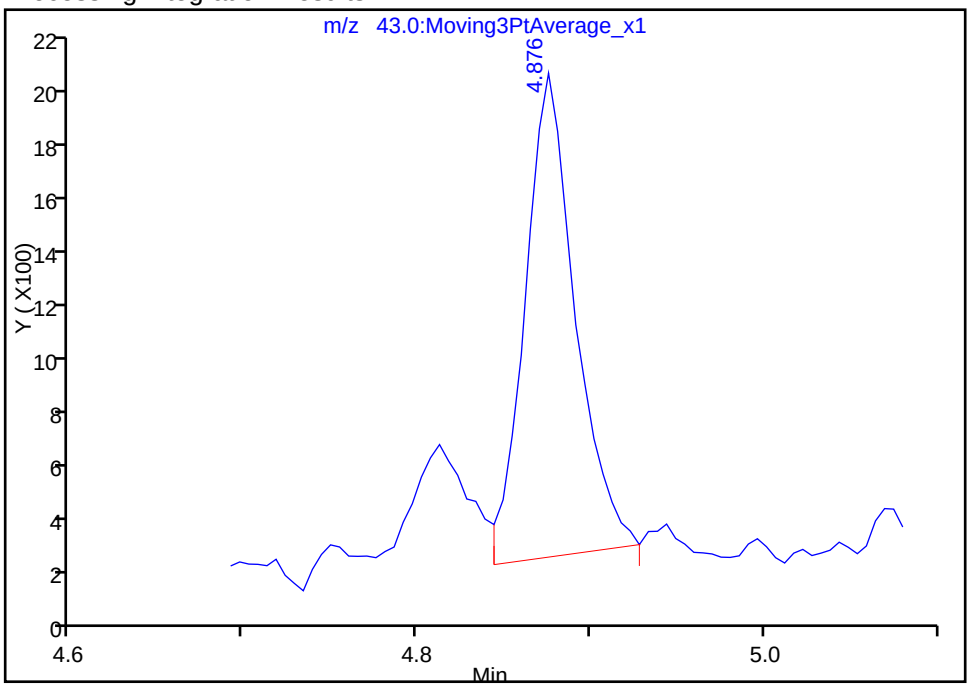
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205C.d				
Injection Date:	05-Dec-2016 20:39:30	Instrument ID:	CMS25		
Lims ID:	STD03AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

37 Ethyl acetate, CAS: 141-78-6

Signal: 1

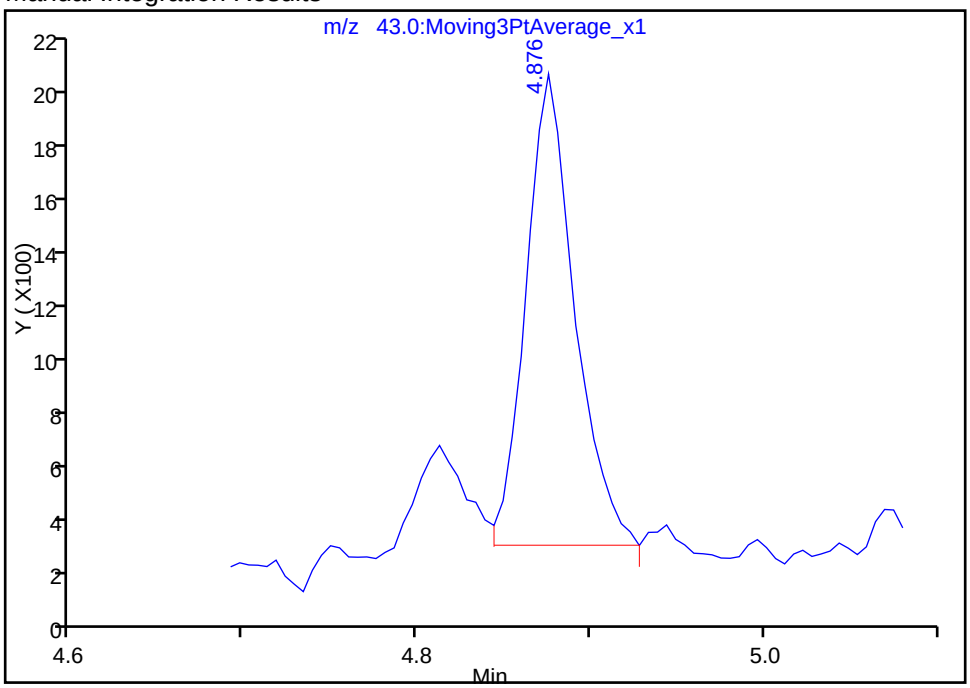
Processing Integration Results

RT: 4.88
Area: 3658
Amount: 2.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.88
Area: 3452
Amount: 2.482120
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:11:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Chicago

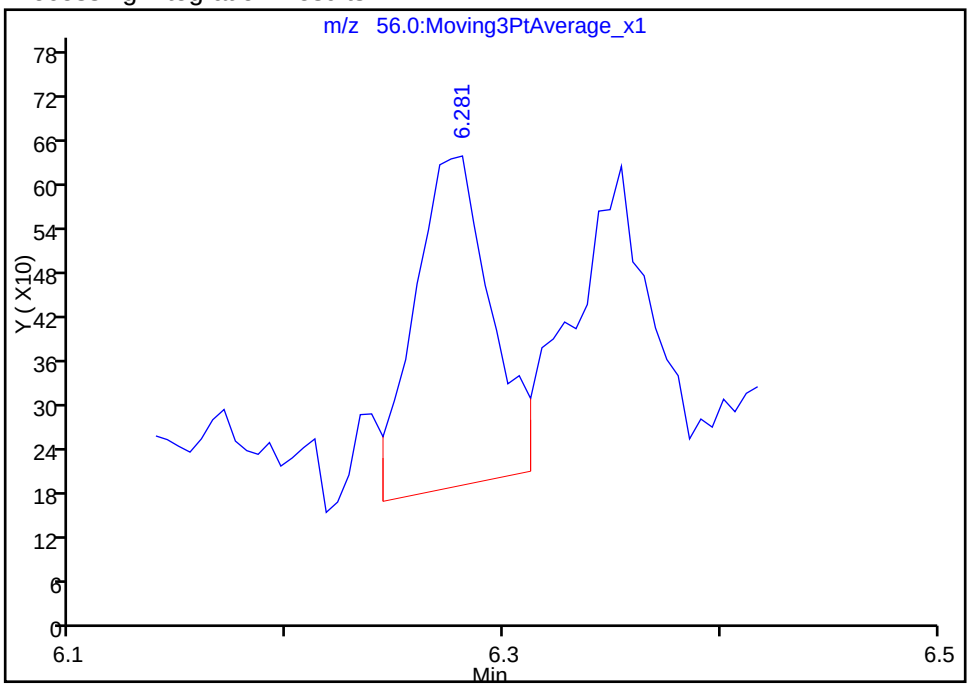
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205C.d				
Injection Date:	05-Dec-2016 20:39:30	Instrument ID:	CMS25		
Lims ID:	STD03AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

55 n-Butanol, CAS: 71-36-3

Signal: 1

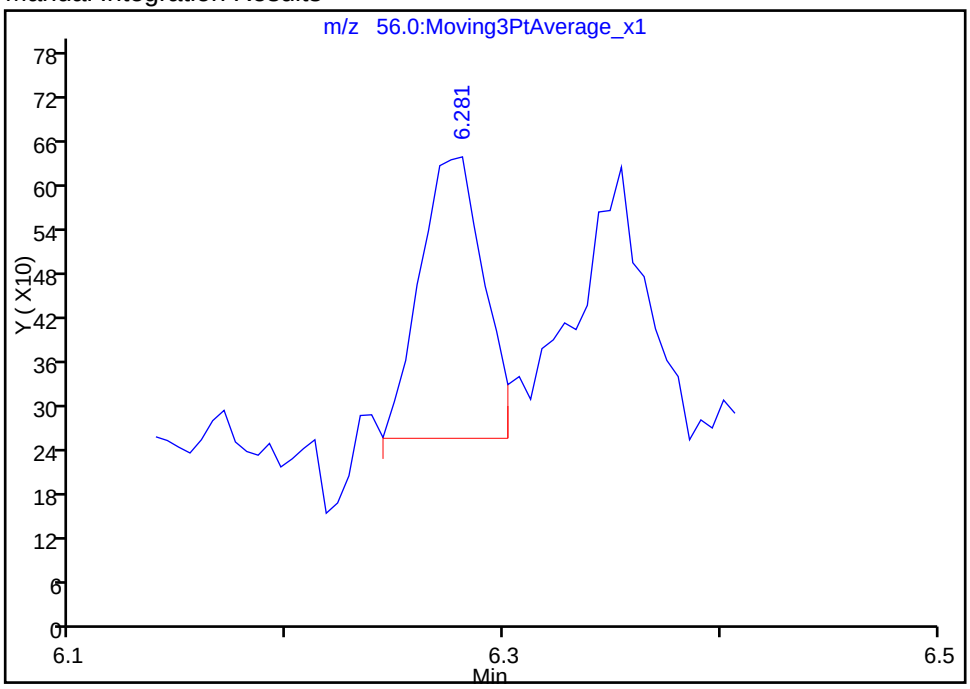
Processing Integration Results

RT: 6.28
Area: 1122
Amount: 25.507906
Amount Units: ug/l



Manual Integration Results

RT: 6.28
Area: 786
Amount: 29.261256
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:11:12

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205D.d
Lims ID: STD04AP
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Dec-2016 21:07:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04AP
Misc. Info.: 500-0042086-014
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:29 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.679	2.679	0.000	81	2584	80.0	65.7	M
17 Isopropyl alcohol	45	3.235	3.224	0.010	60	1982	20.0	21.3	
18 Acetonitrile	41	3.350	3.339	0.011	82	3496	20.0	22.7	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	82910	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	96	20089	2.00	2.01	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	81	14391	2.00	1.92	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	94	14700	2.00	1.95	
36 Propionitrile	54	4.870	4.865	0.005	70	4006	20.0	20.6	
37 Ethyl acetate	43	4.876	4.870	0.006	86	5414	4.00	3.92	
38 Methacrylonitrile	41	5.017	5.017	0.000	91	17317	20.0	19.8	
51 Isooctane	57	5.735	5.741	-0.006	95	33060	2.00	1.95	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	86	9731	2.00	2.01	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	565807	50.0	50.0	
55 n-Butanol	56	6.275	6.260	0.015	64	1503	50.0	56.7	
57 Ethyl acrylate	55	6.438	6.433	0.005	44	4015	2.00	1.99	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	80	8295	2.00	1.90	
* 61 1,4-Dioxane-d8	96	6.632	6.637	-0.005	0	10034	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	83	4813	4.00	3.61	
66 2-Nitropropane	43	7.072	7.072	0.000	66	1735	4.00	3.57	
78 n-Butyl acetate	43	8.519	8.520	-0.001	80	4389	2.00	1.94	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	85	432931	50.0	50.0	
82 1-Chlorohexane	55	9.175	9.180	-0.005	32	14002	2.00	1.89	
91 Cyclohexanone	55	10.459	10.459	0.000	82	8427	200.0	193.7	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	27848	2.00	1.87	
103 Pentachloroethane	167	11.461	11.461	0.000	68	3798	2.00	1.90	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	222137	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	85	21410	2.00	1.84	
111 Benzyl chloride	126	12.111	12.111	0.000	66	1352	2.00	1.88	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	89	10588	2.00	1.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	48	6737	2.00	1.81	
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	4817	2.00	1.79	

QC Flag Legend

Review Flags

M - Manually Integrated

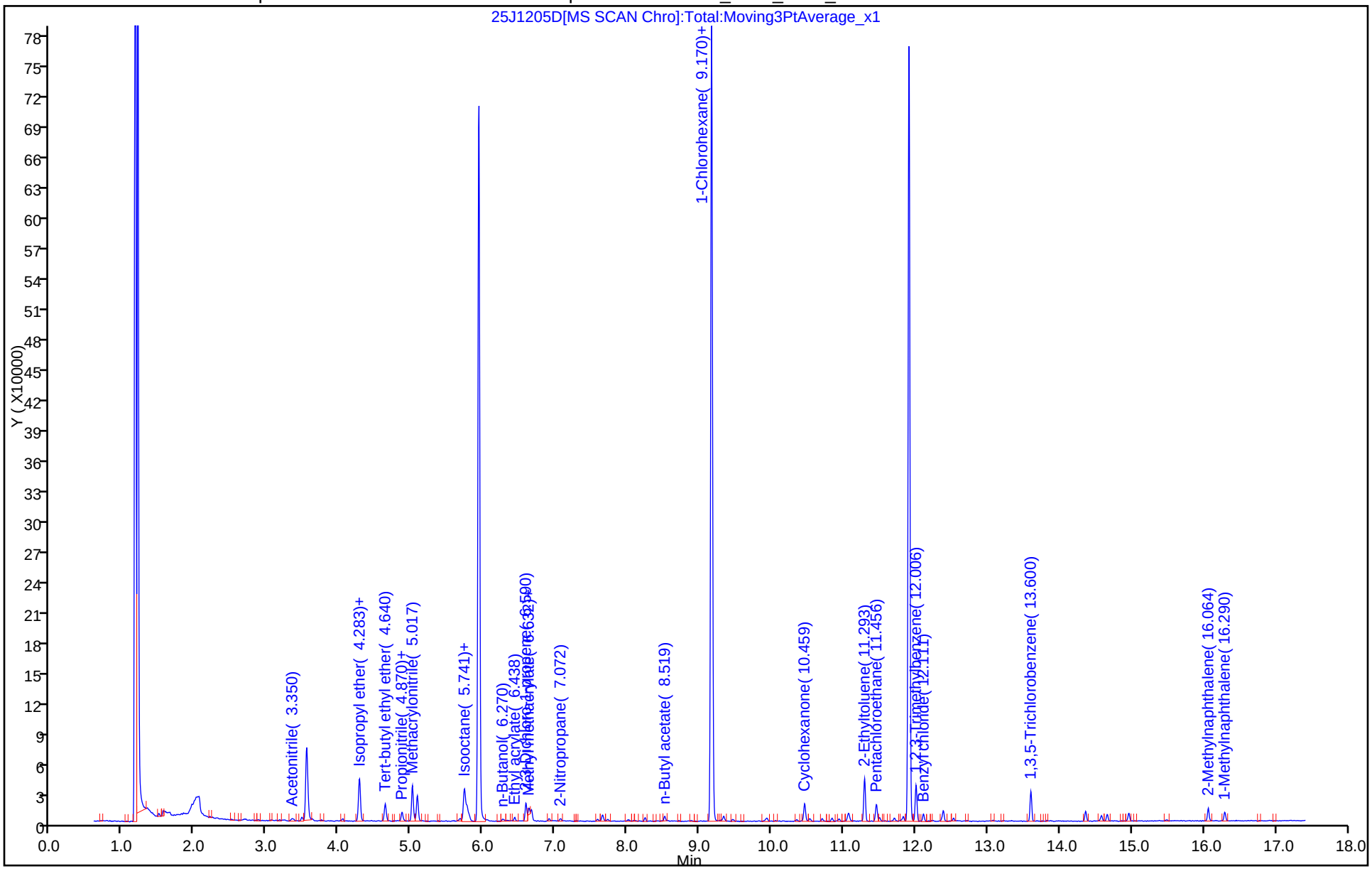
Reagents:

LO8260ADDS_00017	Amount Added:	2.00	Units: uL
LO8260POLRADD_00075	Amount Added:	2.00	Units: uL
LOW8260STD2_00133	Amount Added:	2.00	Units: uL
LOWCYCHXWK_00134	Amount Added:	2.00	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
LOW2,3-DICP_00052	Amount Added:	2.00	Units: uL
LOW2ETTOL STD_00008	Amount Added:	2.00	Units: uL

Report Date: 06-Dec-2016 11:57:30 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205D.d				
Injection Date:	05-Dec-2016 21:07:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD04AP			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

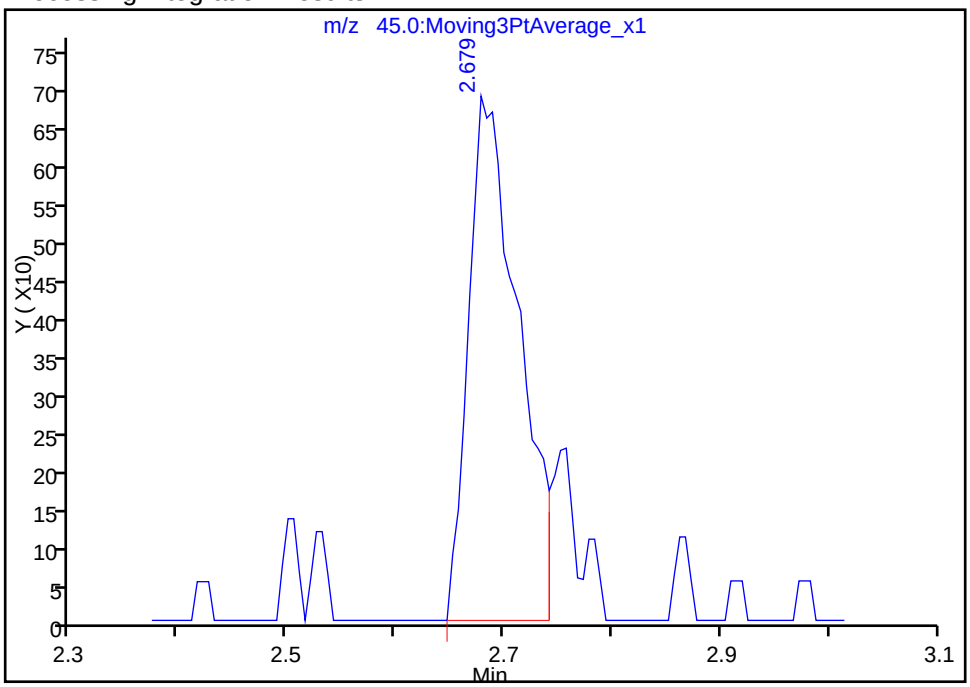
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205D.d				
Injection Date:	05-Dec-2016 21:07:30	Instrument ID:	CMS25		
Lims ID:	STD04AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

9 Ethanol, CAS: 64-17-5

Signal: 1

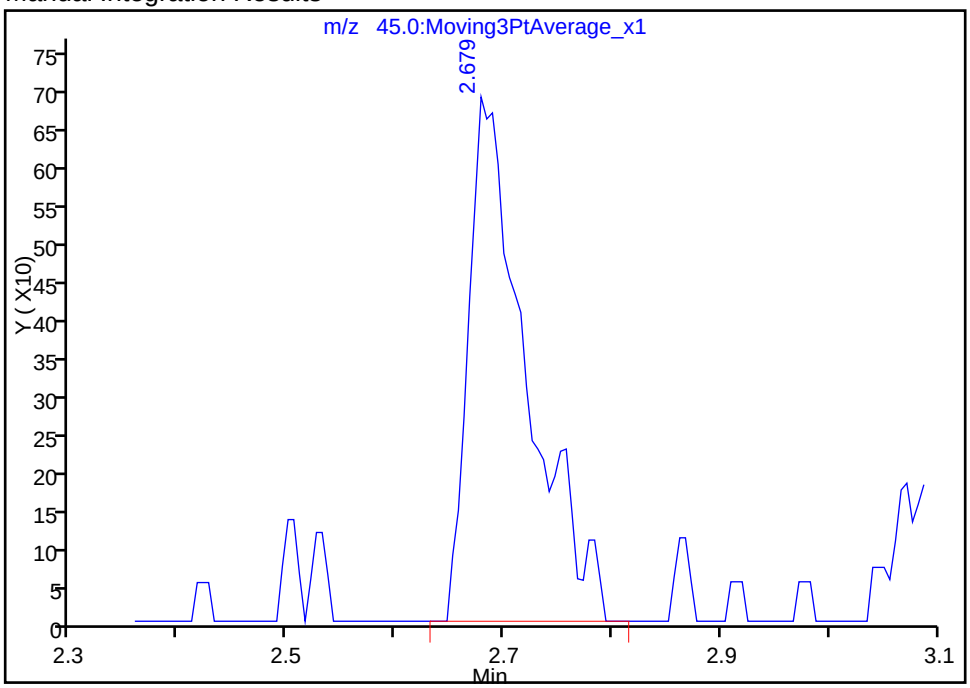
Processing Integration Results

RT: 2.68
Area: 2217
Amount: 80.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.68
Area: 2584
Amount: 65.707366
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:15:04

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205E.d
Lims ID: STD05AP
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Dec-2016 21:35:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05AP
Misc. Info.: 500-0042086-015
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:43 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:51:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.684	2.679	0.005	0	4960	200.0	245.5	M
17 Isopropyl alcohol	45	3.234	3.224	0.010	0	4398	50.0	56.4	M
18 Acetonitrile	41	3.345	3.339	0.006	95	8301	50.0	54.2	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	82885	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	49942	5.00	5.02	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	89	36857	5.00	4.94	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	96	37681	5.00	5.04	
36 Propionitrile	54	4.870	4.865	0.005	77	10444	50.0	54.0	
37 Ethyl acetate	43	4.870	4.870	0.000	95	13827	10.0	10.1	
38 Methacrylonitrile	41	5.017	5.017	0.000	92	43406	50.0	49.9	
51 Isooctane	57	5.741	5.741	0.000	95	84675	5.00	5.01	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	90	24333	5.00	5.05	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	562458	50.0	50.0	
55 n-Butanol	56	6.270	6.260	0.010	78	3153	125.0	118.9	M
57 Ethyl acrylate	55	6.433	6.433	0.000	88	9051	5.00	4.52	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	92	21173	5.00	4.87	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10254	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	86	12312	10.0	9.29	
66 2-Nitropropane	43	7.072	7.072	0.000	77	4575	10.0	9.43	
78 n-Butyl acetate	43	8.519	8.520	-0.001	89	10323	5.00	4.57	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	432362	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	40	27563	5.00	4.90	
91 Cyclohexanone	55	10.459	10.459	0.000	85	20778	500.0	481.8	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	73720	5.00	4.99	
103 Pentachloroethane	167	11.461	11.461	0.000	80	9704	5.00	4.90	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	220208	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	91	56651	5.00	4.90	
111 Benzyl chloride	126	12.111	12.111	0.000	89	3464	5.00	4.86	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	94	27494	5.00	4.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	70	17559	5.00	4.75	
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	12552	5.00	4.72	

QC Flag Legend

Review Flags

M - Manually Integrated

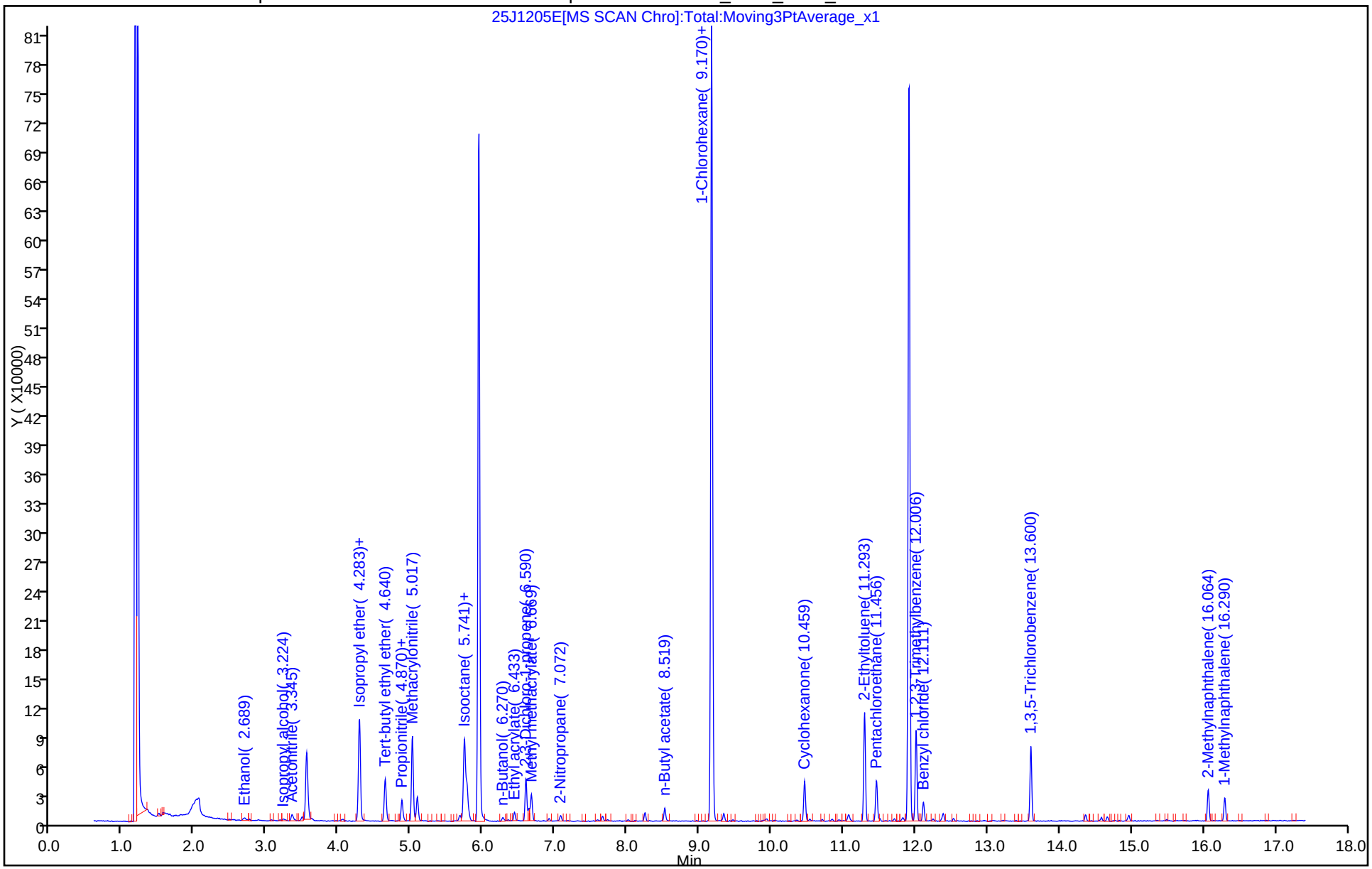
Reagents:

LO8260ADDS_00017	Amount Added:	5.00	Units: uL
LO8260POLRADD_00075	Amount Added:	5.00	Units: uL
LOW8260STD2_00133	Amount Added:	5.00	Units: uL
LOWCYCHXWK_00134	Amount Added:	5.00	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
LOW2,3-DICP_00052	Amount Added:	5.00	Units: uL
LOW2ETTOL STD_00008	Amount Added:	5.00	Units: uL

Report Date: 06-Dec-2016 11:57:43 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205E.d				
Injection Date:	05-Dec-2016 21:35:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD05AP			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

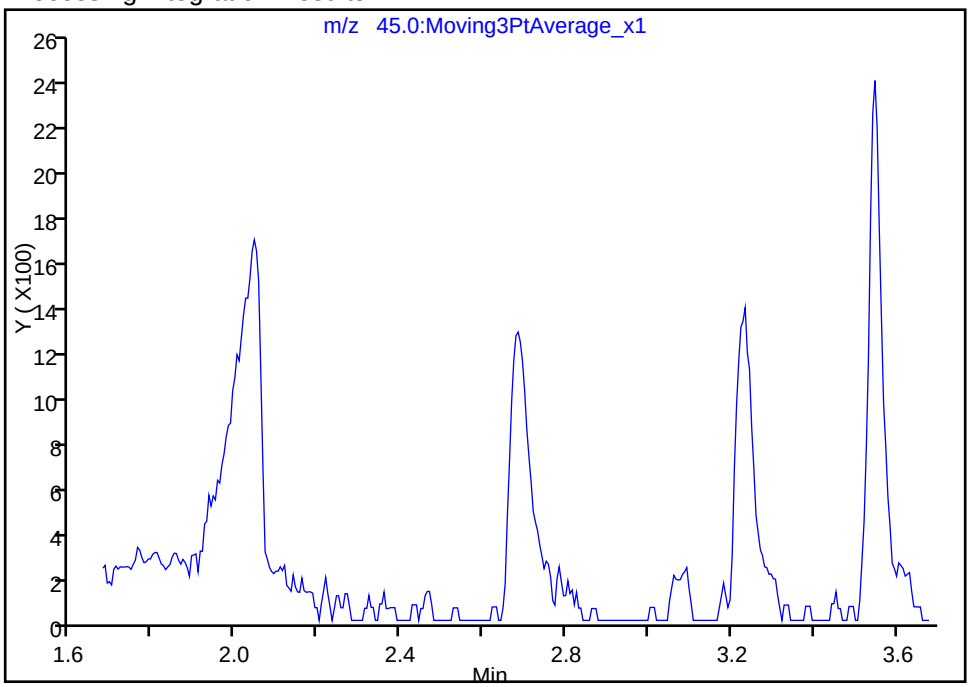
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205E.d				
Injection Date:	05-Dec-2016 21:35:30	Instrument ID:	CMS25		
Lims ID:	STD05AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

9 Ethanol, CAS: 64-17-5

Signal: 1

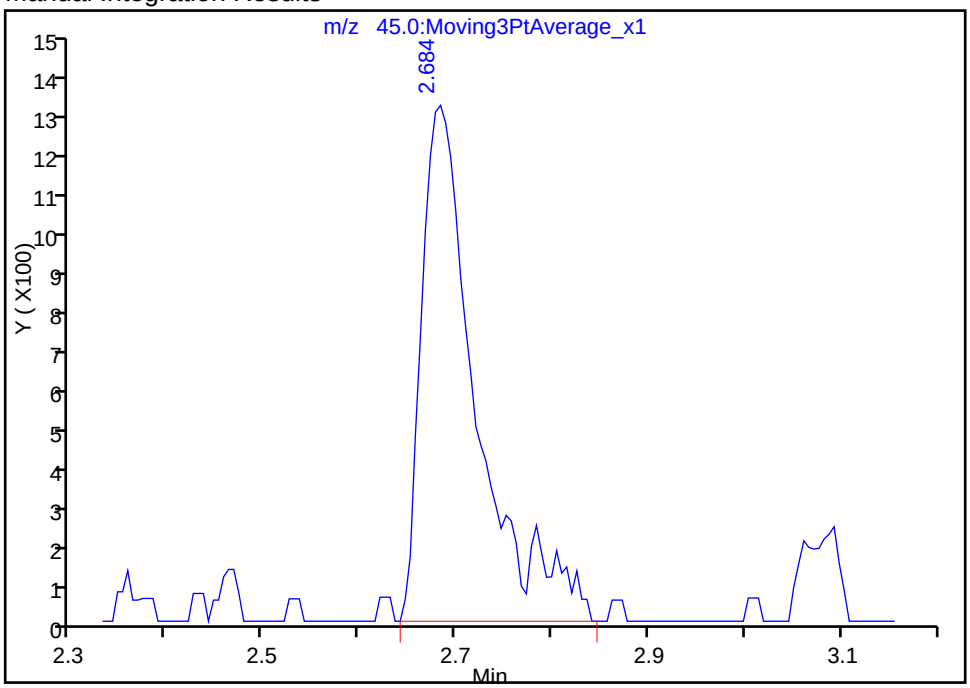
Not Detected
Expected RT: 2.68

Processing Integration Results



Manual Integration Results

RT: 2.68
Area: 4960
Amount: 245.5106
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:06:59
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Chicago

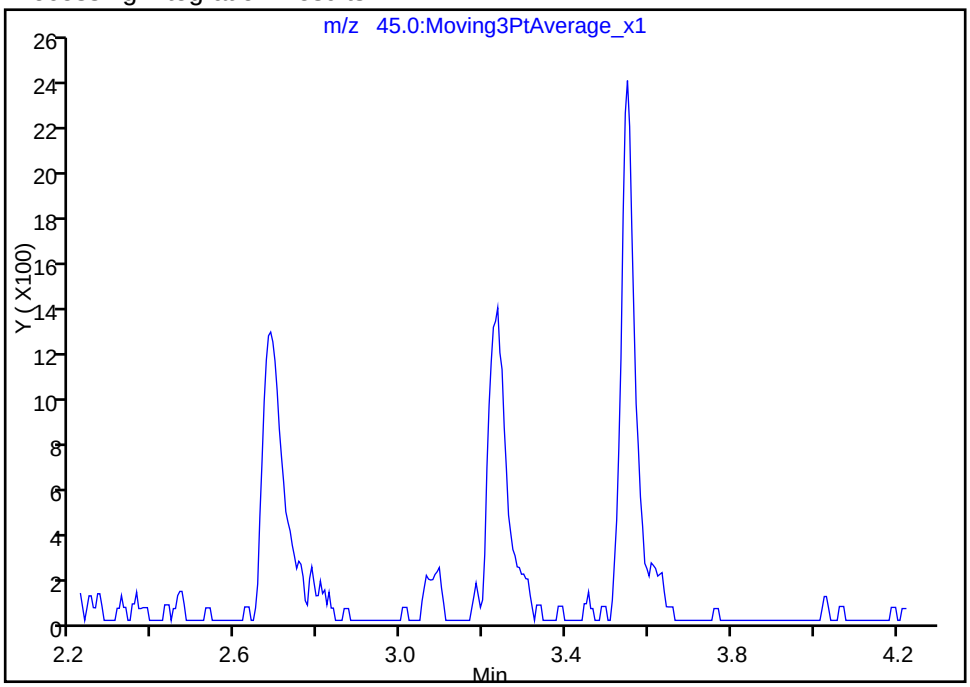
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205E.d				
Injection Date:	05-Dec-2016 21:35:30	Instrument ID:	CMS25		
Lims ID:	STD05AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

17 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

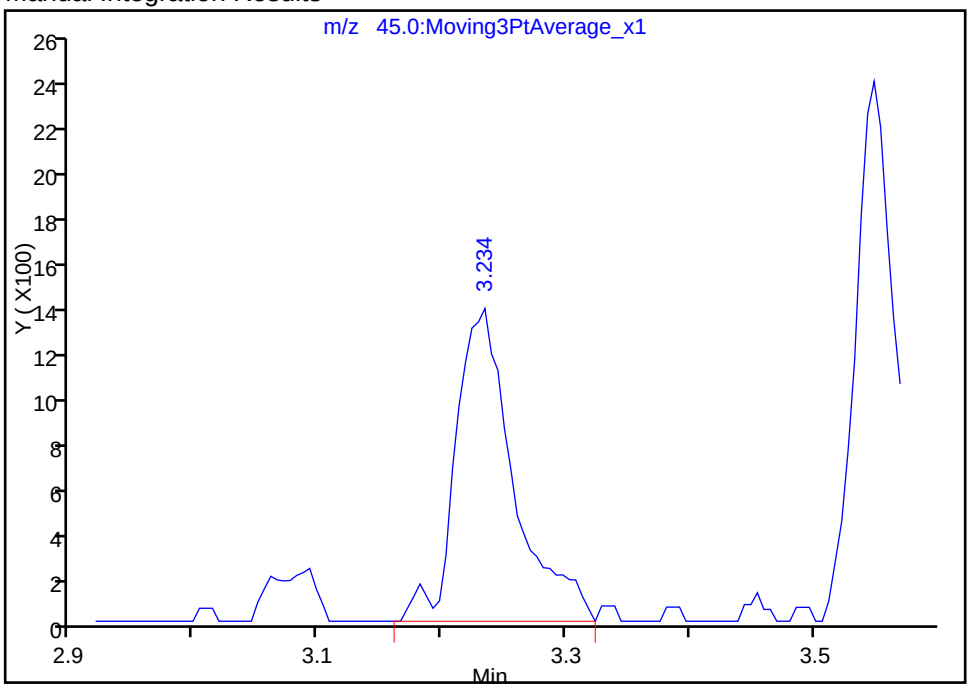
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 4398
Amount: 56.385061
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:06:59
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Chicago

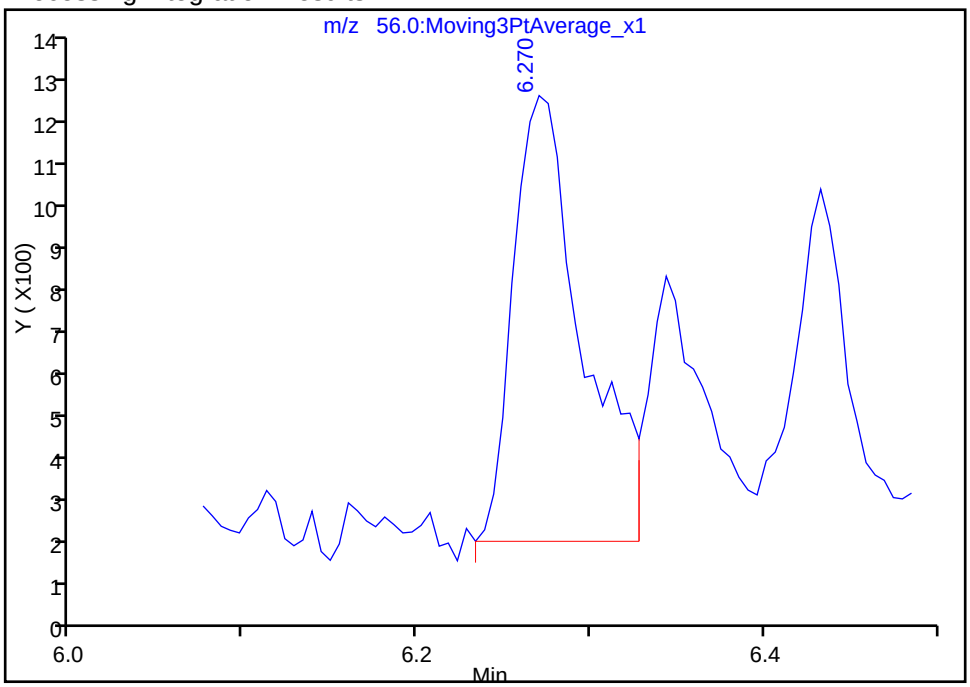
Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205E.d				
Injection Date:	05-Dec-2016 21:35:30	Instrument ID:	CMS25		
Lims ID:	STD05AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

55 n-Butanol, CAS: 71-36-3

Signal: 1

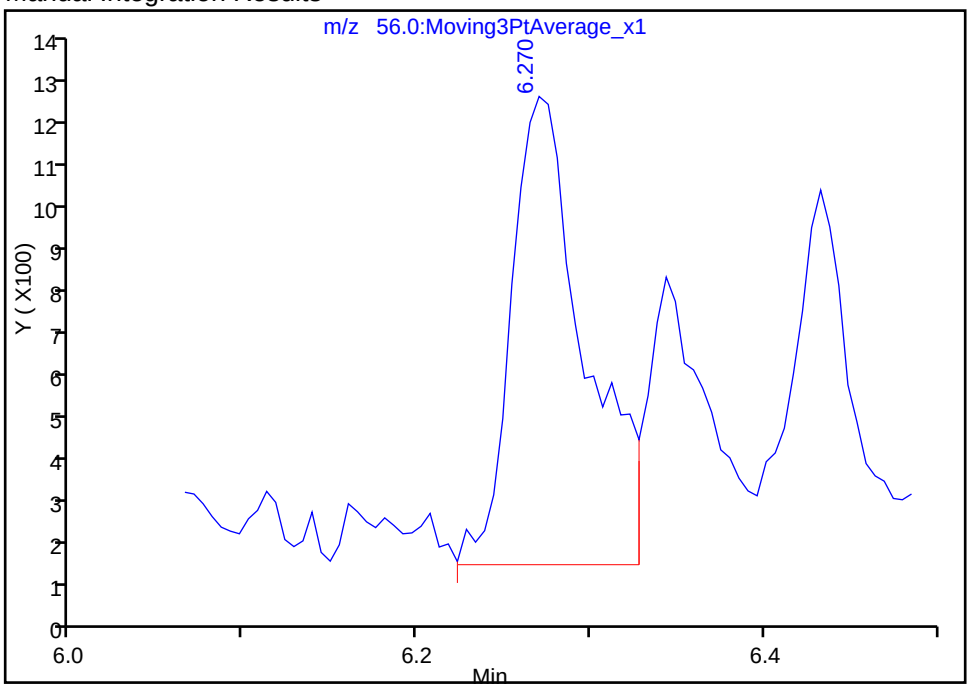
Processing Integration Results

RT: 6.27
Area: 2821
Amount: 125.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.27
Area: 3153
Amount: 118.9280
Amount Units: ug/l



Reviewer: alikpalae, 05-Dec-2016 22:13:25
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205F.d
Lims ID: STD06AP
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Dec-2016 22:58:30 ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06AP
Misc. Info.: 500-0042086-016
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:52 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:57:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.684	2.679	0.005	91	12024	800.0	799.9	
17 Isopropyl alcohol	45	3.229	3.224	0.005	63	14690	200.0	210.4	
18 Acetonitrile	41	3.339	3.339	0.000	100	30410	200.0	198.7	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	81100	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	202340	20.0	20.3	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	155735	20.0	20.9	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	151943	20.0	20.3	
36 Propionitrile	54	4.865	4.865	0.000	85	38254	200.0	198.1	
37 Ethyl acetate	43	4.870	4.870	0.000	96	53249	40.0	38.8	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	179719	200.0	206.8	
51 Isooctane	57	5.741	5.741	0.000	96	356939	20.0	21.2	
52 Tert-amyl methyl ether	73	5.777	5.772	0.005	92	99596	20.0	20.7	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	561927	50.0	50.0	
55 n-Butanol	56	6.265	6.260	0.005	79	10781	500.0	415.6	
57 Ethyl acrylate	55	6.433	6.433	0.000	96	40303	20.0	20.1	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	92	89412	20.0	20.6	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	9302	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	94	54338	40.0	41.1	
66 2-Nitropropane	43	7.072	7.072	0.000	96	19000	40.0	40.2	
78 n-Butyl acetate	43	8.519	8.520	-0.001	96	44454	20.0	20.2	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	421065	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	64	95771	20.0	20.6	
91 Cyclohexanone	55	10.459	10.459	0.000	91	81690	2000.0	2011.0	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	302824	20.0	21.8	
103 Pentachloroethane	167	11.461	11.461	0.000	88	36188	20.0	19.4	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	207427	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	229848	20.0	21.1	
111 Benzyl chloride	126	12.111	12.111	0.000	97	13791	20.0	20.6	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	96	108351	20.0	20.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	87	70761	20.0	20.3	
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	51600	20.0	20.6	

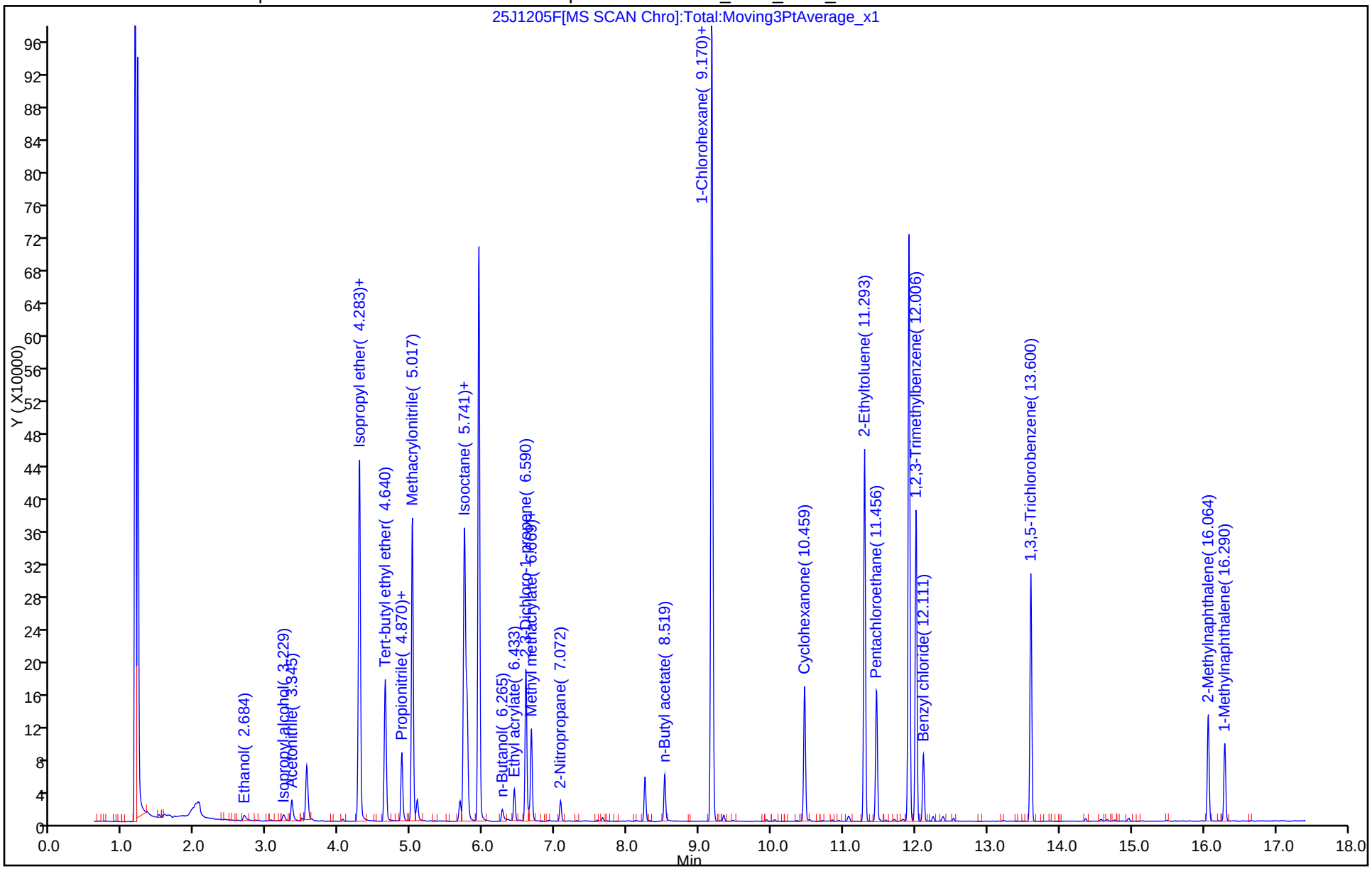
Reagents:

LO8260ADDS_00017	Amount Added: 20.00	Units: uL
LO8260POLRADD_00075	Amount Added: 20.00	Units: uL
LOW8260STD2_00133	Amount Added: 20.00	Units: uL
LOWCYCHXWK_00134	Amount Added: 20.00	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
LOW2,3-DICP_00052	Amount Added: 20.00	Units: uL
LOW2ETTOL STD_00008	Amount Added: 20.00	Units: uL

Report Date: 06-Dec-2016 11:57:52 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205F.d				
Injection Date:	05-Dec-2016 22:58:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD06AP			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205G.d
Lims ID: STD07AP
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Dec-2016 23:26:30 ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07AP
Misc. Info.: 500-0042086-017
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:55 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:52:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.679	2.679	0.000	93	26660	2000.0	1852.7	
17 Isopropyl alcohol	45	3.224	3.224	0.000	73	34429	500.0	483.5	
18 Acetonitrile	41	3.339	3.339	0.000	99	72239	500.0	478.6	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	84325	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	96	466833	50.0	47.6	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	367208	50.0	50.0	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	98	355469	50.0	48.2	
36 Propionitrile	54	4.865	4.865	0.000	82	89692	500.0	471.1	
37 Ethyl acetate	43	4.870	4.870	0.000	99	132396	100.0	97.9	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	449790	500.0	524.9	
51 Isooctane	57	5.741	5.741	0.000	96	839611	50.0	50.5	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	91	229623	50.0	48.3	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	554151	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	86	31152	1250.0	1155.0	
57 Ethyl acrylate	55	6.433	6.433	0.000	97	103893	50.0	52.6	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	94	230095	50.0	53.7	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	9772	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	94	135814	100.0	104.1	
66 2-Nitropropane	43	7.072	7.072	0.000	98	49949	100.0	107.2	
78 n-Butyl acetate	43	8.520	8.520	0.000	96	114442	50.0	52.8	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	85	415047	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	88	220712	50.0	49.7	
91 Cyclohexanone	55	10.459	10.459	0.000	91	204935	5000.0	5064.6	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	715136	50.0	51.6	
103 Pentachloroethane	167	11.461	11.461	0.000	89	95163	50.0	51.2	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	206626	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	544418	50.0	50.2	
111 Benzyl chloride	126	12.111	12.111	0.000	97	33981	50.0	50.8	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	97	256590	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	89	175484	50.0	50.6	
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	125013	50.0	50.1	

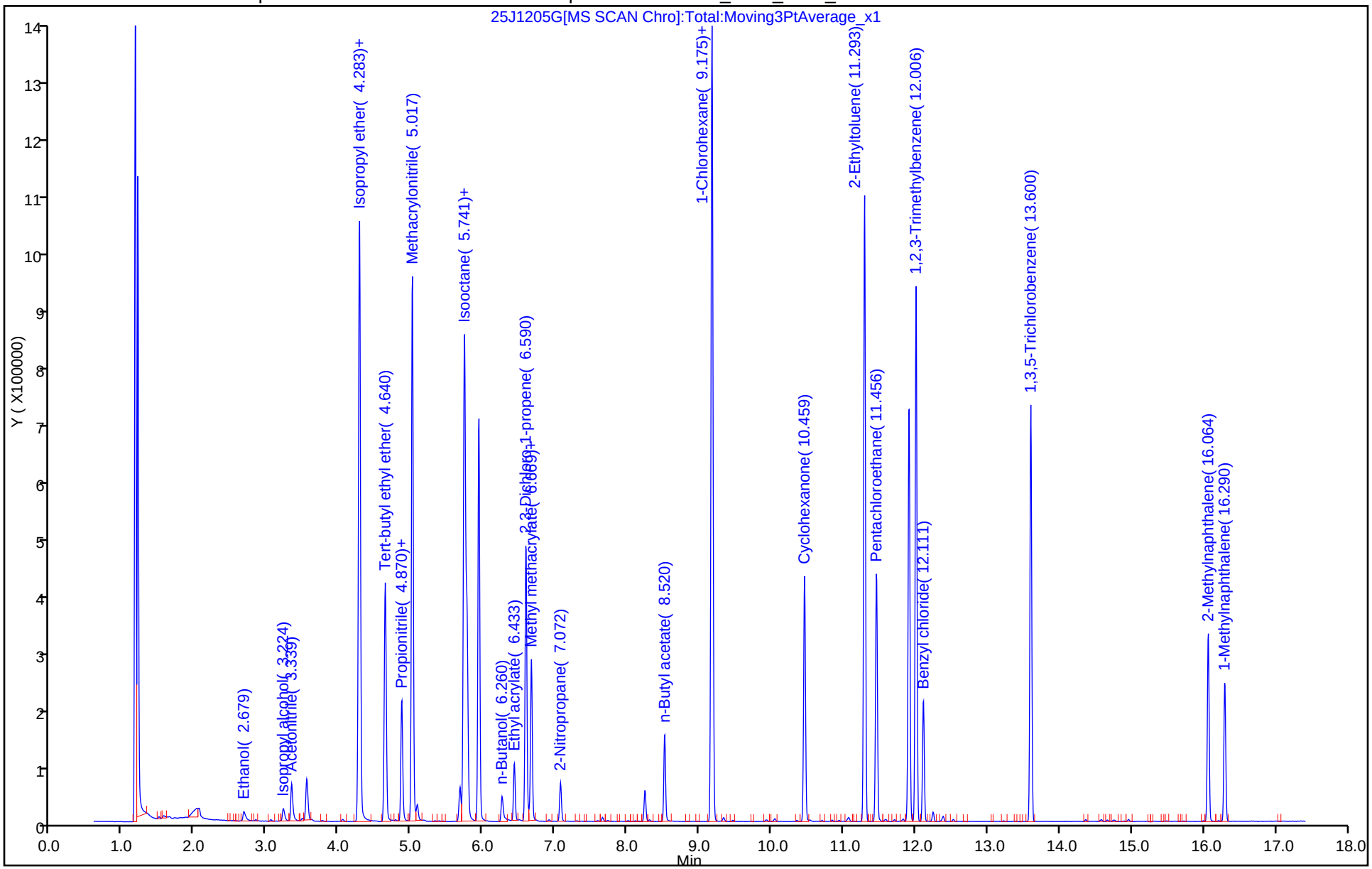
Reagents:

8260ADDS 2016_00029	Amount Added:	2.50	Units: uL
8260POLR ADDS_00104	Amount Added:	2.50	Units: uL
8260/624STD2_00143	Amount Added:	2.50	Units: uL
8260CYCHXWK_00148	Amount Added:	2.50	Units: uL
8260 23DCP WK_00076	Amount Added:	2.50	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00015	Amount Added:	2.50	Units: uL

Report Date: 06-Dec-2016 11:57:56 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205G.d				
Injection Date:	05-Dec-2016 23:26:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD07AP			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205H.d
Lims ID: STD08AP
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Dec-2016 23:54:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08AP
Misc. Info.: 500-0042086-018
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:57:59 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:52:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.679	2.679	0.000	96	57193	4000.0	4144.3	
17 Isopropyl alcohol	45	3.224	3.224	0.000	75	70478	1000.0	1002.6	
18 Acetonitrile	41	3.340	3.339	0.001	100	153038	1000.0	972.3	
* 22 TBA-d9 (IS)	65	3.554	3.549	0.005	0	83905	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	1016089	100.0	99.3	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	763069	100.0	99.6	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	769125	100.0	100.1	
36 Propionitrile	54	4.865	4.865	0.000	86	189409	1000.0	954.0	
37 Ethyl acetate	43	4.870	4.870	0.000	97	262742	200.0	186.3	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	893290	1000.0	999.6	
51 Isooctane	57	5.741	5.741	0.000	96	1720225	100.0	99.1	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	92	491347	100.0	99.2	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	577896	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	89	65324	2500.0	2434.0	
57 Ethyl acrylate	55	6.428	6.433	-0.005	98	209397	100.0	101.7	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	93	458587	100.0	102.7	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10930	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	94	272876	200.0	200.5	
66 2-Nitropropane	43	7.073	7.072	0.001	96	99201	200.0	206.7	
78 n-Butyl acetate	43	8.514	8.520	-0.006	97	223134	100.0	100.0	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	84	427548	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	89	454305	100.0	100.4	
91 Cyclohexanone	55	10.460	10.459	0.001	90	423071	10000	10137	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	1427719	100.0	99.9	
103 Pentachloroethane	167	11.456	11.461	-0.005	91	204677	100.0	106.9	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	213118	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	1130060	100.0	101.1	
111 Benzyl chloride	126	12.111	12.111	0.000	98	69924	100.0	101.4	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	96	539705	100.0	101.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	89	368877	100.0	103.2	
121 1-Methylnaphthalene	142	16.295	16.295	0.000	0	264765	100.0	102.8	

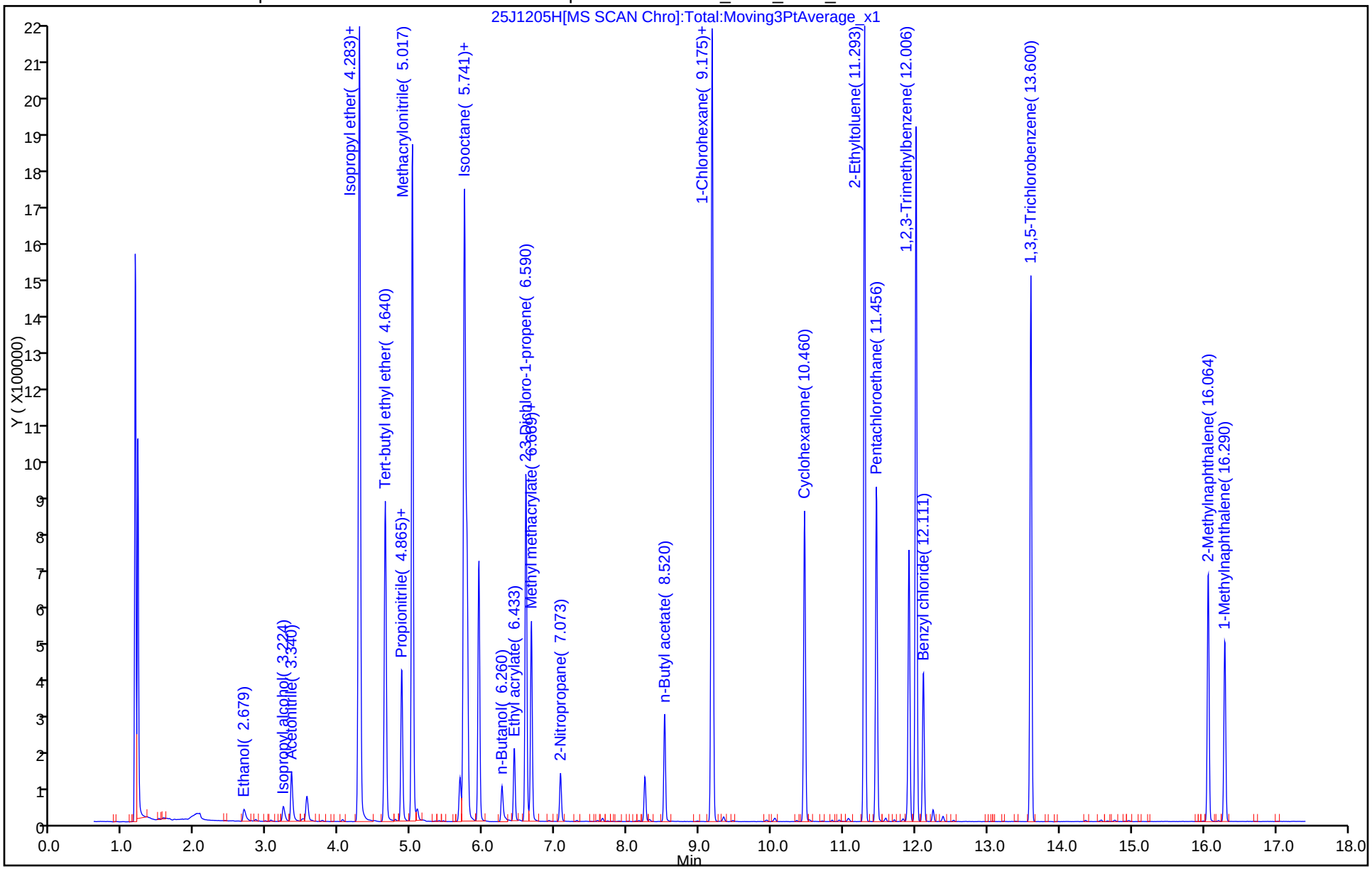
Reagents:

8260ADDS 2016_00029	Amount Added:	5.00	Units: uL
8260POLR ADDS_00104	Amount Added:	5.00	Units: uL
8260/624STD2_00143	Amount Added:	5.00	Units: uL
8260CYCHXWK_00148	Amount Added:	5.00	Units: uL
8260 23DCP WK_00076	Amount Added:	5.00	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00015	Amount Added:	5.00	Units: uL

Report Date: 06-Dec-2016 11:57:59 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205H.d				
Injection Date:	05-Dec-2016 23:54:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD08AP			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205I.d
Lims ID: STD09AP
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 06-Dec-2016 00:21:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09AP
Misc. Info.: 500-0042086-019
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:58:02 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:52:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.674	2.679	-0.005	96	83505	6000.0	5815.2	
17 Isopropyl alcohol	45	3.219	3.224	-0.005	75	107070	1500.0	1454.4	
18 Acetonitrile	41	3.334	3.339	-0.005	100	241421	1500.0	1474.6	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	88075	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	1605660	150.0	150.9	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	1165071	150.0	146.2	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	1212148	150.0	151.7	
36 Propionitrile	54	4.865	4.865	0.000	83	299301	1500.0	1449.4	
37 Ethyl acetate	43	4.870	4.870	0.000	97	412859	300.0	281.5	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	1394695	1500.0	1500.4	
51 Isooctane	57	5.741	5.741	0.000	96	2613260	150.0	144.8	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	91	776970	150.0	150.8	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	601065	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	90	102062	3750.0	3622.8	
57 Ethyl acrylate	55	6.428	6.433	-0.005	98	324291	150.0	151.5	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	93	700802	150.0	150.9	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10788	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	92	429169	300.0	303.2	
66 2-Nitropropane	43	7.073	7.072	0.001	97	154667	300.0	302.8	
78 n-Butyl acetate	43	8.514	8.520	-0.006	97	350111	150.0	147.4	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	84	454980	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	89	692162	150.0	144.3	
91 Cyclohexanone	55	10.460	10.459	0.001	91	622511	15000	13884	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	2203464	150.0	143.5	
103 Pentachloroethane	167	11.461	11.461	0.000	90	311663	150.0	151.5	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	228948	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	1756630	150.0	146.2	
111 Benzyl chloride	126	12.111	12.111	0.000	98	112063	150.0	151.3	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	97	843240	150.0	147.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	90	588783	150.0	153.3	
121 1-Methylnaphthalene	142	16.290	16.295	-0.005	0	424054	150.0	153.3	

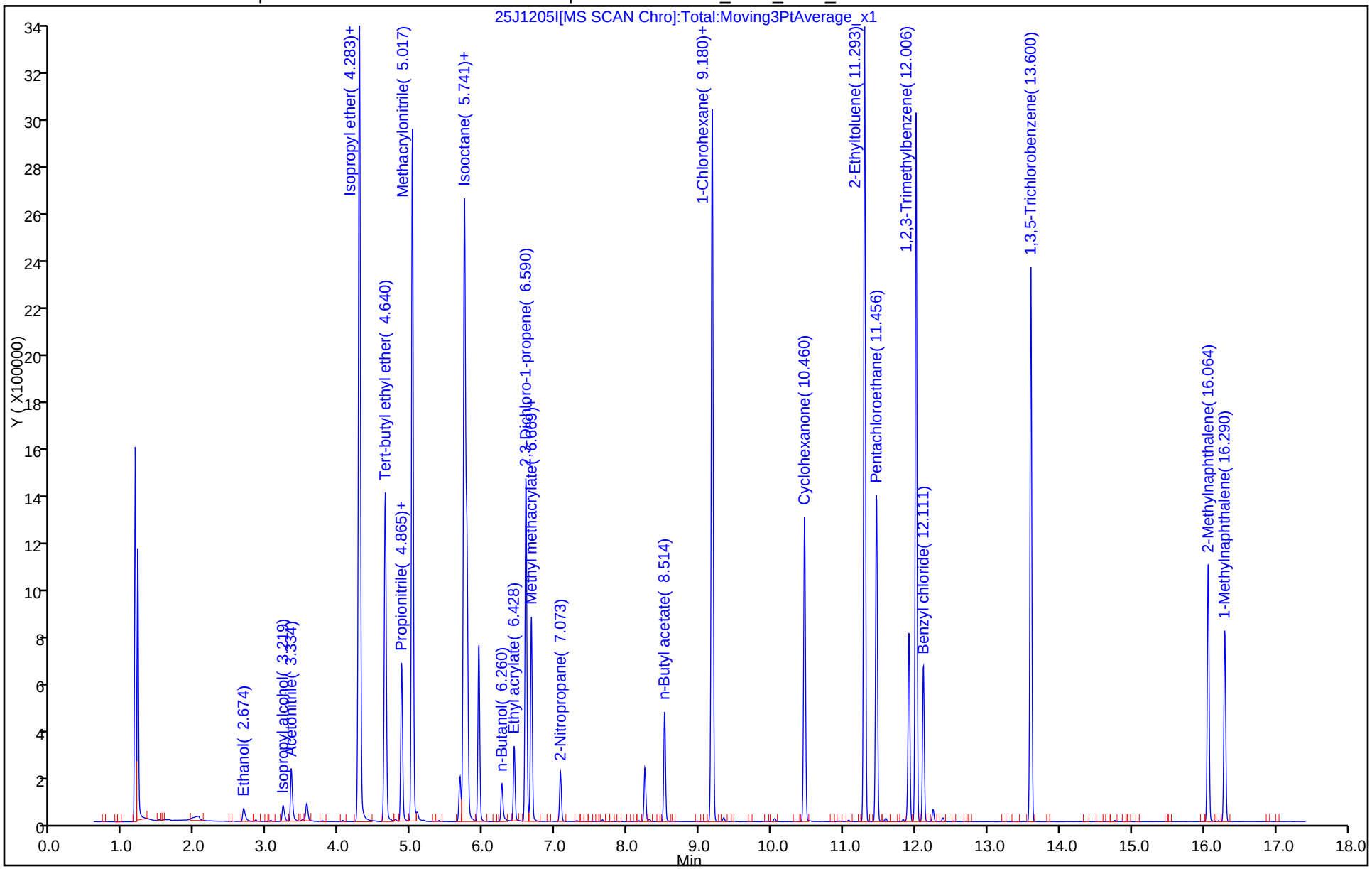
Reagents:

8260ADDS 2016_00029	Amount Added:	7.50	Units: uL
8260POLR ADDS_00104	Amount Added:	7.50	Units: uL
8260/624STD2_00143	Amount Added:	7.50	Units: uL
8260CYCHXWK_00148	Amount Added:	7.50	Units: uL
8260 23DCP WK_00076	Amount Added:	7.50	Units: uL
8260 LOWIS1_00104	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00015	Amount Added:	7.50	Units: uL

Report Date: 06-Dec-2016 11:58:03 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205I.d				
Injection Date:	06-Dec-2016 00:21:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD09AP			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205J.d
Lims ID: STD10AP
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 06-Dec-2016 00:49:30 ALS Bottle#: 22 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10AP
Misc. Info.: 500-0042086-020
Operator ID: EA Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub42
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 11:58:06 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 11:52:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.673	2.679	-0.006	96	110815	8000.0	8156.7	
17 Isopropyl alcohol	45	3.219	3.224	-0.005	76	143018	2000.0	2043.5	
18 Acetonitrile	41	3.334	3.339	-0.005	100	318723	2000.0	1966.8	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	83853	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	96	2139829	200.0	203.1	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	90	1591370	200.0	201.8	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	1609548	200.0	203.5	
36 Propionitrile	54	4.865	4.865	0.000	85	396017	2000.0	1937.4	
37 Ethyl acetate	43	4.870	4.870	0.000	97	551971	400.0	380.2	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	1861671	2000.0	2023.4	
51 Isooctane	57	5.741	5.741	0.000	96	3522757	200.0	197.2	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	91	1025371	200.0	201.1	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	594963	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	89	140784	5000.0	5248.9	
57 Ethyl acrylate	55	6.428	6.433	-0.005	96	443281	200.0	209.1	
60 2,3-Dichloro-1-propene	75	6.595	6.590	0.005	93	916855	200.0	199.4	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	9400	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	93	572103	400.0	408.3	
66 2-Nitropropane	43	7.072	7.072	0.000	97	208690	400.0	427.8	
78 n-Butyl acetate	43	8.519	8.520	-0.001	96	467338	200.0	206.0	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	73	434591	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	89	937424	200.0	205.1	
91 Cyclohexanone	55	10.459	10.459	0.000	90	821521	20000	19477	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	2900559	200.0	200.8	
103 Pentachloroethane	167	11.461	11.461	0.000	90	398713	200.0	206.0	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	215386	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.011	12.006	0.005	85	2363313	200.0	209.1	
111 Benzyl chloride	126	12.111	12.111	0.000	97	149054	200.0	213.9	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	97	1130054	200.0	209.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 2-Methylnaphthalene	142	16.064	16.064	0.000	89	768138	200.0	212.6	
121 1-Methylnaphthalene	142	16.290	16.295	-0.005	0	549194	200.0	211.0	

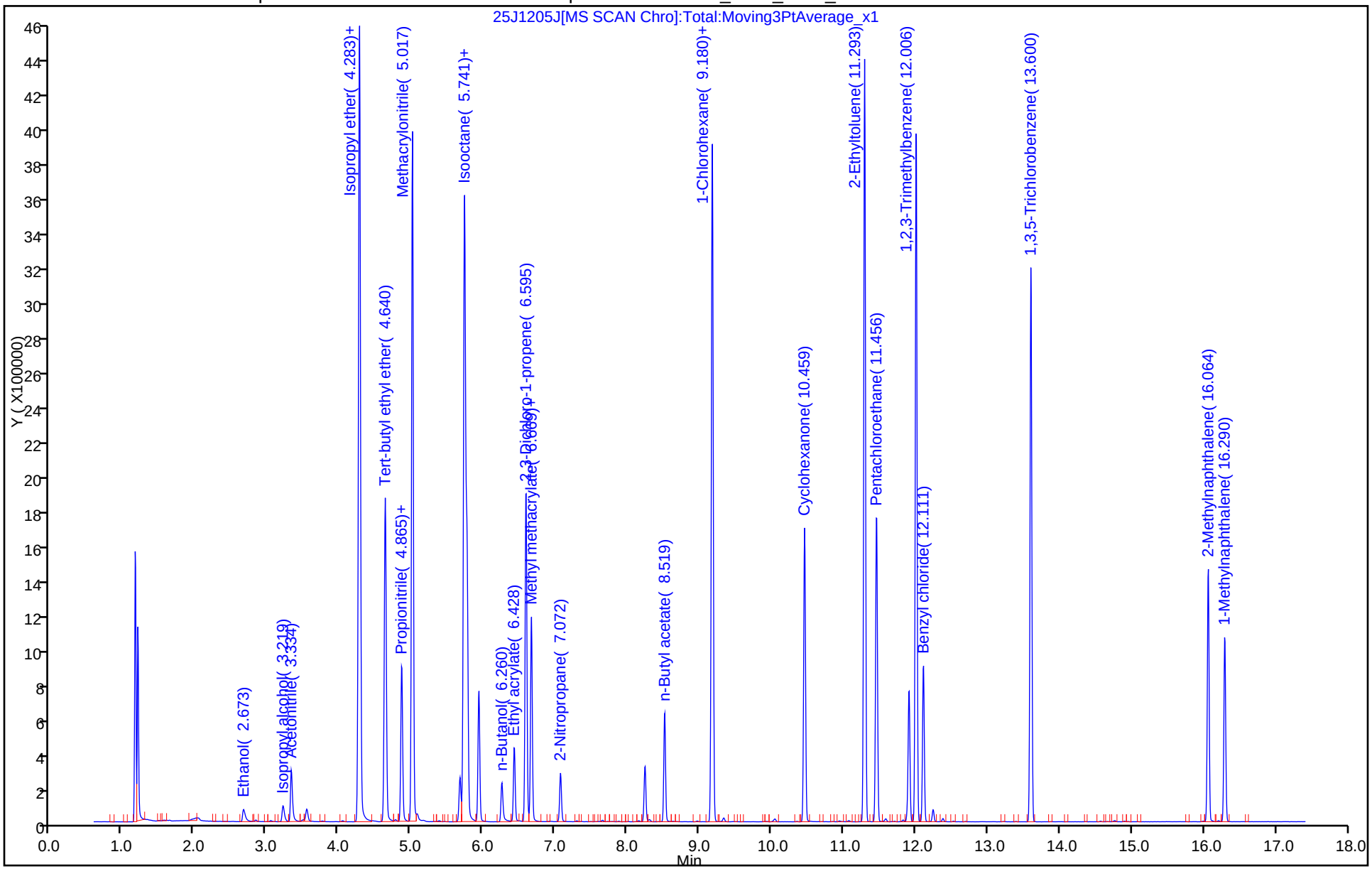
Reagents:

8260ADDS 2016_00029	Amount Added: 10.00	Units: uL
8260POLR ADDS_00104	Amount Added: 10.00	Units: uL
8260/624STD2_00143	Amount Added: 10.00	Units: uL
8260CYCHXWK_00148	Amount Added: 10.00	Units: uL
8260 23DCP WK_00076	Amount Added: 10.00	Units: uL
8260 LOWIS1_00104	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00015	Amount Added: 10.00	Units: uL

Report Date: 06-Dec-2016 11:58:06 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25J1205J.d				
Injection Date:	06-Dec-2016 00:49:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	STD10AP			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 500-363659/22 Calibration Date: 12/06/2016 02:13

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1205ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3927	0.0100	56.4	50.0	12.9	30.0
Chloromethane	Ave	0.4229	0.4569	0.1000	54.0	50.0	8.0	30.0
Vinyl chloride	Ave	0.3352	0.3607	0.0100	53.8	50.0	7.6	30.0
Butadiene	Ave	0.3239	0.3403	0.0100	52.5	50.0	5.1	30.0
Bromomethane	Ave	0.1096	0.1145	0.0100	52.2	50.0	4.5	30.0
Chloroethane	Ave	0.1946	0.2032	0.0100	52.2	50.0	4.4	30.0
Dichlorofluoromethane	Ave	0.5115	0.5077	0.0100	49.6	50.0	-0.8	30.0
Trichlorofluoromethane	Ave	0.4919	0.4949	0.0100	50.3	50.0	0.6	30.0
Ethyl ether	Ave	0.1591	0.1529	0.0100	48.0	50.0	-3.9	30.0
Acrolein	Ave	0.0216	0.0208	0.0010	1930	2000	-3.6	30.0
1,1-Dichloroethene	Ave	0.2582	0.2543	0.0100	49.2	50.0	-1.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2877	0.2881	0.0100	50.1	50.0	0.1	30.0
Acetone	Lin1		0.0314	0.0100	49.0	50.0	-1.9	30.0
Iodomethane	Lin1		0.3240	0.0100	45.4	50.0	-9.3	30.0
Carbon disulfide	Ave	0.8665	0.8515	0.0100	49.1	50.0	-1.7	30.0
3-Chloropropene	Ave	0.1341	0.1338	0.0100	49.9	50.0	-0.2	30.0
Methyl acetate	Ave	0.0836	0.0821	0.0100	245	250	-1.9	30.0
Methylene Chloride	Ave	0.2336	0.2296	0.0100	49.1	50.0	-1.7	30.0
tert-Butyl alcohol	Ave	1.302	1.168	0.0100	448	500	-10.3	30.0
Acrylonitrile	Ave	0.0489	0.0470	0.0010	481	500	-3.8	30.0
trans-1,2-Dichloroethene	Ave	0.2784	0.2775	0.0100	49.8	50.0	-0.3	30.0
Methyl tert-butyl ether	Ave	0.3892	0.3869	0.0100	49.7	50.0	-0.6	30.0
Hexane	Ave	0.5885	0.5705	0.0100	48.5	50.0	-3.1	30.0
1,1-Dichloroethane	Ave	0.5210	0.5060	0.1000	48.6	50.0	-2.9	30.0
Vinyl acetate	Ave	0.2990	0.3155	0.0100	52.8	50.0	5.5	30.0
2,2-Dichloropropane	Ave	0.4548	0.4306	0.0100	47.3	50.0	-5.3	30.0
cis-1,2-Dichloroethene	Ave	0.2869	0.2760	0.0100	48.1	50.0	-3.8	30.0
Methyl Ethyl Ketone	Ave	0.0499	0.0461	0.0100	46.2	50.0	-7.6	30.0
Bromochloromethane	Ave	0.1148	0.1151	0.0100	50.2	50.0	0.3	30.0
Tetrahydrofuran	Lin1		0.0294	0.0100	89.5	100	-10.5	30.0
Chloroform	Ave	0.4539	0.4340	0.0100	47.8	50.0	-4.4	30.0
1,1,1-Trichloroethane	Ave	0.4626	0.4557	0.0100	49.3	50.0	-1.5	30.0
Cyclohexane	Ave	0.6573	0.6440	0.0100	49.0	50.0	-2.0	30.0
1,1-Dichloropropene	Ave	0.3786	0.3757	0.0100	49.6	50.0	-0.8	30.0
Carbon tetrachloride	Ave	0.4567	0.4585	0.0100	50.2	50.0	0.4	30.0
Isobutyl alcohol	Lin2		0.4412	0.0010	1120	1250	-10.2	30.0
Benzene	Ave	0.998	0.9523	0.0100	47.7	50.0	-4.6	30.0
1,2-Dichloroethane	Ave	0.2971	0.2967	0.0100	49.9	50.0	-0.2	30.0
Heptane	Ave	0.6055	0.5836	0.0100	48.2	50.0	-3.6	30.0
Trichloroethene	Ave	0.3252	0.3263	0.0100	50.2	50.0	0.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 500-363659/22 Calibration Date: 12/06/2016 02:13

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1205ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4990	0.4871	0.0100	48.8	50.0	-2.4	30.0
1,2-Dichloropropane	Ave	0.2554	0.2591	0.0100	50.7	50.0	1.4	30.0
Dibromomethane	Ave	0.1049	0.1024	0.0100	48.8	50.0	-2.4	30.0
1,4-Dioxane	Ave	0.9831	1.043	0.0010	1060	1000	6.1	30.0
Bromodichloromethane	Ave	0.3052	0.3011	0.0100	49.3	50.0	-1.4	30.0
2-Chloroethyl vinyl ether	Lin2		0.1024	0.0100	47.5	50.0	-4.9	30.0
cis-1,3-Dichloropropene	Ave	0.4516	0.4384	0.0100	48.5	50.0	-2.9	30.0
methyl isobutyl ketone	Ave	0.1392	0.1344	0.0100	48.3	50.0	-3.4	30.0
Toluene	Ave	0.9038	0.8339	0.0100	46.1	50.0	-7.7	30.0
trans-1,3-Dichloropropene	Ave	0.3440	0.3333	0.0100	48.5	50.0	-3.1	30.0
Ethyl methacrylate	Ave	0.1953	0.1868	0.0100	47.8	50.0	-4.4	30.0
1,1,2-Trichloroethane	Ave	0.1824	0.1765	0.0100	48.4	50.0	-3.2	30.0
Tetrachloroethene	Ave	0.4873	0.4619	0.0100	47.4	50.0	-5.2	30.0
1,3-Dichloropropane	Ave	0.3060	0.3009	0.0100	49.2	50.0	-1.7	30.0
2-Hexanone	Ave	0.0899	0.0858	0.0100	47.7	50.0	-4.5	30.0
Dibromochloromethane	Ave	0.2781	0.2721	0.0100	48.9	50.0	-2.2	30.0
1,2-Dibromoethane	Ave	0.1810	0.1822	0.0100	50.3	50.0	0.6	30.0
Chlorobenzene	Ave	0.9649	0.9119	0.3000	47.3	50.0	-5.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3409	0.3330	0.0100	48.8	50.0	-2.3	30.0
Ethylbenzene	Ave	0.5539	0.5300	0.0100	47.8	50.0	-4.3	30.0
m&p-Xylene	Ave	1.327	1.248	0.0100	47.0	50.0	-5.9	30.0
o-Xylene	Ave	1.316	1.227	0.0100	46.6	50.0	-6.8	30.0
Styrene	Ave	0.9856	0.9288	0.0100	47.1	50.0	-5.8	30.0
Bromoform	Ave	0.1467	0.1512	0.1000	51.5	50.0	3.0	30.0
Isopropylbenzene	Ave	3.445	3.372	0.0100	48.9	50.0	-2.1	30.0
Bromobenzene	Ave	0.7858	0.7660	0.0100	48.7	50.0	-2.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3345	0.3265	0.3000	48.8	50.0	-2.4	30.0
1,2,3-Trichloropropane	Ave	0.3757	0.3680	0.0100	49.0	50.0	-2.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1477	0.1350	0.0100	45.7	50.0	-8.7	30.0
N-Propylbenzene	Ave	3.971	3.843	0.0100	48.4	50.0	-3.2	30.0
2-Chlorotoluene	Ave	2.187	2.095	0.0100	47.9	50.0	-4.2	30.0
1,3,5-Trimethylbenzene	Ave	2.746	2.628	0.0100	47.9	50.0	-4.3	30.0
4-Chlorotoluene	Ave	2.536	2.411	0.0100	47.5	50.0	-4.9	30.0
p-Isopropyltoluene	Ave	2.627	2.560	0.0100	48.7	50.0	-2.5	30.0
1,2,4-Trimethylbenzene	Ave	2.688	2.551	0.0100	47.5	50.0	-5.1	30.0
sec-Butylbenzene	Ave	3.811	3.635	0.0100	47.7	50.0	-4.6	30.0
1,3-Dichlorobenzene	Ave	1.549	1.455	0.0100	47.0	50.0	-6.1	30.0
tert-Butylbenzene	Ave	3.305	3.170	0.0100	48.0	50.0	-4.1	30.0
1,4-Dichlorobenzene	Ave	1.501	1.405	0.0100	46.8	50.0	-6.4	30.0
n-Butylbenzene	Ave	2.903	2.700	0.0100	46.5	50.0	-7.0	30.0
1,2-Dichlorobenzene	Ave	1.289	1.241	0.0100	48.1	50.0	-3.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 500-363659/22 Calibration Date: 12/06/2016 02:13

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1205ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin2		0.0547	0.0100	47.7	50.0	-4.7	30.0
1,2,4-Trichlorobenzene	Ave	0.9658	0.8748	0.0100	45.3	50.0	-9.4	30.0
Hexachlorobutadiene	Ave	0.7069	0.6601	0.0100	46.7	50.0	-6.6	30.0
Naphthalene	Ave	1.259	1.174	0.0100	46.6	50.0	-6.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7672	0.7028	0.0100	45.8	50.0	-8.4	30.0
Dibromofluoromethane	Ave	0.2618	0.2587	0.0100	49.4	50.0	-1.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2358	0.2366	0.0100	50.2	50.0	0.4	30.0
Toluene-d8 (Surr)	Ave	1.322	1.271	0.0100	48.1	50.0	-3.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9066	0.8988	0.0100	49.6	50.0	-0.9	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25S1205ICV1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Dec-2016 02:13:30 ALS Bottle#: 25 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1
Misc. Info.: 500-0042086-022
Operator ID: EA Instrument ID: CMS25
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 12:02:04 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 12:02:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.373	1.373	0.000	88	233070	50.0	56.4	
2 Chloromethane	50	1.557	1.552	0.005	89	271218	50.0	54.0	
3 Vinyl chloride	62	1.672	1.672	0.000	84	214089	50.0	53.8	
4 Butadiene	39	1.714	1.714	0.000	85	201998	50.0	52.5	
5 Bromomethane	94	2.013	2.013	0.000	90	67957	50.0	52.2	
6 Chloroethane	64	2.128	2.128	0.000	92	120633	50.0	52.2	
7 Dichlorofluoromethane	67	2.369	2.370	-0.001	84	301323	50.0	49.6	
8 Trichlorofluoromethane	101	2.411	2.411	-0.001	78	293753	50.0	50.3	
10 Ethyl ether	59	2.747	2.747	0.000	97	90751	50.0	48.0	
11 Acrolein	56	2.878	2.878	0.000	95	493914	2000.0	1927.9	
12 1,1-Dichloroethene	96	2.967	2.967	0.000	85	150922	50.0	49.2	
13 1,1,2-Trichloro-1,2,2-trif	101	2.983	2.983	0.000	84	171003	50.0	50.1	
14 Acetone	43	3.046	3.051	-0.005	92	18648	50.0	49.0	
15 Iodomethane	142	3.119	3.119	0.000	99	192341	50.0	45.4	
16 Carbon disulfide	76	3.177	3.177	0.000	99	505424	50.0	49.1	
19 3-Chloro-1-propene	76	3.355	3.355	0.000	83	79421	50.0	49.9	
20 Methyl acetate	43	3.392	3.392	0.000	97	243535	250.0	245.3	
21 Methylene Chloride	84	3.486	3.486	0.000	90	136264	50.0	49.1	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	88981	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.633	3.633	0.000	95	51950	500.0	448.4	
24 Acrylonitrile	53	3.748	3.743	0.005	97	278976	500.0	480.9	
25 trans-1,2-Dichloroethene	96	3.764	3.764	0.000	90	164690	50.0	49.8	
26 Methyl tert-butyl ether	73	3.775	3.769	0.006	93	229628	50.0	49.7	
27 Hexane	57	4.047	4.047	0.000	93	338626	50.0	48.5	
28 1,1-Dichloroethane	63	4.194	4.194	0.000	86	300324	50.0	48.6	
29 Vinyl acetate	43	4.262	4.257	0.005	100	187273	50.0	52.8	
33 2,2-Dichloropropane	77	4.776	4.776	0.000	72	255602	50.0	47.3	
34 cis-1,2-Dichloroethene	96	4.781	4.781	0.000	84	163832	50.0	48.1	
35 2-Butanone (MEK)	43	4.807	4.808	-0.001	96	27351	50.0	46.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.017	5.017	0.000	78	68319	50.0	50.2	
40 Tetrahydrofuran	42	5.070	5.070	0.000	89	34855	100.0	89.5	
41 Chloroform	83	5.106	5.106	0.000	83	257579	50.0	47.8	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	63	153524	50.0	49.4	
43 1,1,1-Trichloroethane	97	5.279	5.279	0.000	90	270504	50.0	49.3	
44 Cyclohexane	56	5.332	5.332	0.000	92	382268	50.0	49.0	
45 Carbon tetrachloride	117	5.447	5.447	0.000	77	272142	50.0	50.2	
46 1,1-Dichloropropene	75	5.447	5.447	0.000	87	223022	50.0	49.6	
47 Isobutyl alcohol	43	5.589	5.589	0.000	64	49070	1250.0	1122.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	140443	50.0	50.2	
49 Benzene	78	5.657	5.657	0.000	95	565231	50.0	47.7	
50 1,2-Dichloroethane	62	5.678	5.678	0.000	83	176094	50.0	49.9	
53 n-Heptane	43	5.929	5.930	-0.001	91	346418	50.0	48.2	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	94	593567	50.0	50.0	
56 Trichloroethene	130	6.312	6.312	0.000	90	193686	50.0	50.2	
58 Methylcyclohexane	83	6.506	6.506	0.000	92	289094	50.0	48.8	
59 1,2-Dichloropropane	63	6.543	6.543	0.000	89	153768	50.0	50.7	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	10481	1000.0	1000.0	
63 Dibromomethane	93	6.663	6.664	-0.001	86	60805	50.0	48.8	
64 1,4-Dioxane	88	6.690	6.690	0.000	95	10935	1000.0	1061.3	
65 Dichlorobromomethane	83	6.831	6.826	0.005	90	178691	50.0	49.3	
67 2-Chloroethyl vinyl ether	63	7.151	7.151	0.000	91	46390	50.0	47.5	
68 cis-1,3-Dichloropropene	75	7.298	7.298	0.000	86	198718	50.0	48.5	
69 4-Methyl-2-pentanone (MIBK	43	7.466	7.466	0.000	94	60936	50.0	48.3	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	95	576073	50.0	48.1	
71 Toluene	92	7.654	7.654	-0.001	93	377990	50.0	46.1	
72 trans-1,3-Dichloropropene	75	7.896	7.896	0.000	92	151087	50.0	48.5	
73 Ethyl methacrylate	69	7.995	7.995	0.000	71	84656	50.0	47.8	
74 1,1,2-Trichloroethane	97	8.095	8.095	0.000	88	80006	50.0	48.4	
75 Tetrachloroethene	166	8.247	8.247	0.000	90	209354	50.0	47.4	
76 1,3-Dichloropropane	76	8.278	8.278	0.000	95	136405	50.0	49.2	
77 2-Hexanone	43	8.373	8.373	0.000	96	38895	50.0	47.7	
79 Chlorodibromomethane	129	8.525	8.525	0.000	88	123312	50.0	48.9	
80 Ethylene Dibromide	107	8.651	8.651	0.000	98	82571	50.0	50.3	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	453257	50.0	50.0	
83 Chlorobenzene	112	9.201	9.201	0.000	93	413316	50.0	47.3	
84 1,1,1,2-Tetrachloroethane	131	9.295	9.296	-0.001	90	150910	50.0	48.8	
85 Ethylbenzene	106	9.332	9.327	0.005	99	240227	50.0	47.8	
86 m-Xylene & p-Xylene	91	9.463	9.463	0.000	0	565621	50.0	47.0	
87 o-Xylene	91	9.919	9.919	-0.001	94	556222	50.0	46.6	
88 Styrene	104	9.935	9.935	0.000	90	420966	50.0	47.1	
89 Bromoform	173	10.145	10.145	0.000	98	68513	50.0	51.5	
90 Isopropylbenzene	105	10.355	10.355	0.000	98	769796	50.0	48.9	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	91	205192	50.0	49.6	
93 Bromobenzene	156	10.706	10.706	0.000	78	174884	50.0	48.7	
94 1,1,2,2-Tetrachloroethane	83	10.711	10.711	0.000	63	74533	50.0	48.8	
95 1,2,3-Trichloropropane	75	10.758	10.758	0.000	56	84016	50.0	49.0	
96 trans-1,4-Dichloro-2-buten	53	10.779	10.779	0.000	70	30809	50.0	45.7	
97 N-Propylbenzene	91	10.842	10.842	0.000	97	877358	50.0	48.4	
98 2-Chlorotoluene	91	10.937	10.937	0.000	98	478380	50.0	47.9	
99 1,3,5-Trimethylbenzene	105	11.057	11.052	0.005	89	599948	50.0	47.9	
100 4-Chlorotoluene	91	11.068	11.068	0.000	94	550323	50.0	47.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.440	11.445	-0.005	85	584459	50.0	48.7	
104 1,2,4-Trimethylbenzene	105	11.503	11.503	0.000	74	582439	50.0	47.5	
105 sec-Butylbenzene	105	11.707	11.707	0.000	95	829951	50.0	47.7	
106 1,3-Dichlorobenzene	146	11.828	11.833	-0.005	89	332148	50.0	47.0	
107 tert-Butylbenzene	119	11.886	11.886	0.000	73	723612	50.0	48.0	
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	94	228300	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.938	11.938	0.000	93	320654	50.0	46.8	
112 n-Butylbenzene	91	12.384	12.384	0.000	97	616301	50.0	46.5	
113 1,2-Dichlorobenzene	146	12.389	12.389	0.000	71	283397	50.0	48.1	
114 1,2-Dibromo-3-Chloropropan	75	13.343	13.343	0.000	52	12492	50.0	47.7	
116 1,2,4-Trichlorobenzene	180	14.360	14.360	0.000	93	199717	50.0	45.3	
117 Hexachlorobutadiene	225	14.580	14.581	-0.001	84	150692	50.0	46.7	
118 Naphthalene	128	14.659	14.659	0.000	98	268070	50.0	46.6	
119 1,2,3-Trichlorobenzene	180	14.963	14.958	0.005	93	160455	50.0	45.8	
S 122 1,2-Dichloroethene, Total	1				0		100.0	97.9	
S 123 Xylenes, Total	1				0		100.0	93.6	

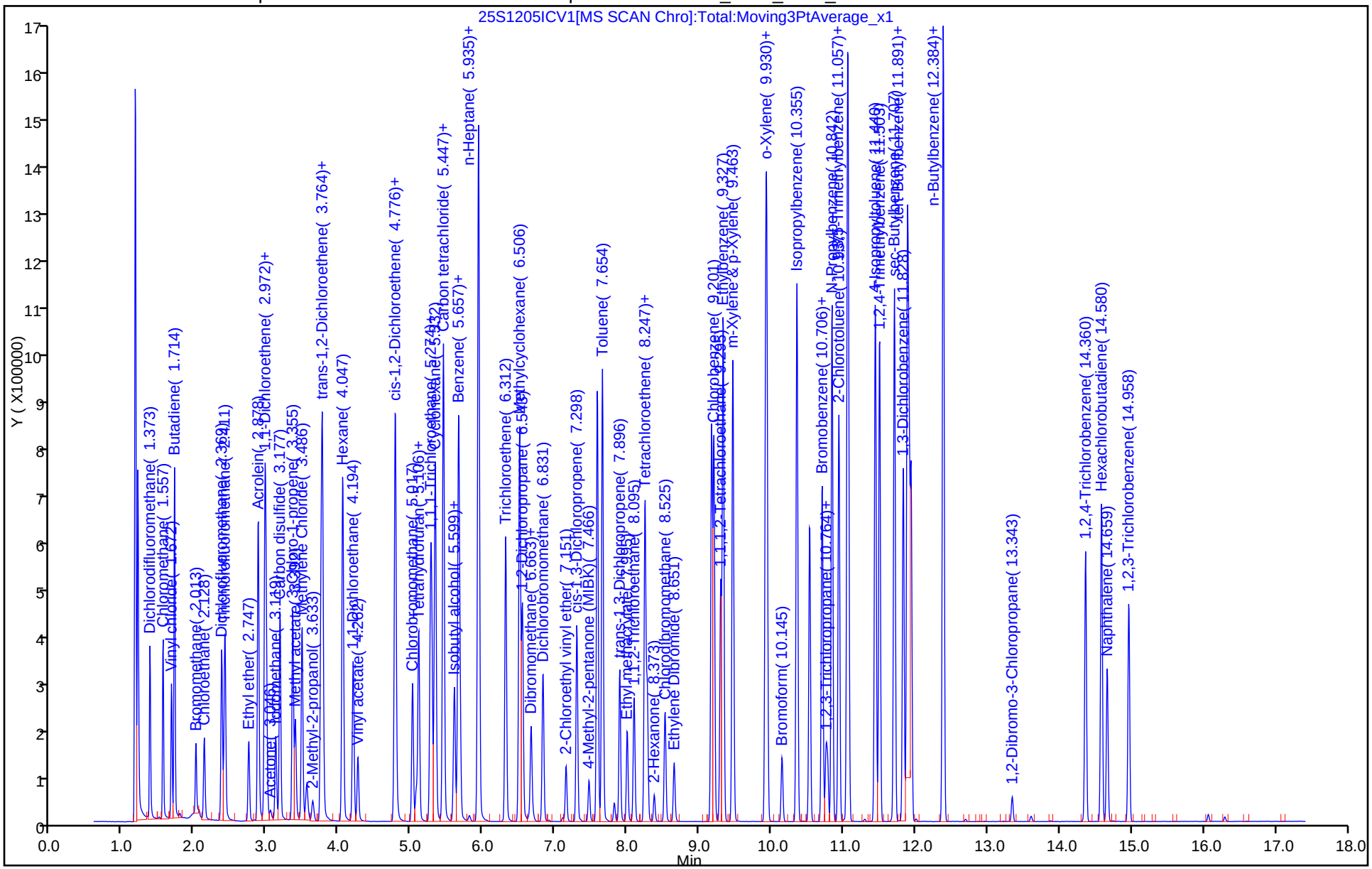
Reagents:

8260 ACR SPK_00122	Amount Added:	5.00	Units: uL	
8260 GAS SPK_00120	Amount Added:	5.00	Units: uL	
8260 KET SPK_00094	Amount Added:	5.00	Units: uL	
8260 MEGA SPK_00098	Amount Added:	5.00	Units: uL	
VA/2CEVE SPK_00106	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00123	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 06-Dec-2016 12:02:05 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25S1205ICV1.d				
Injection Date:	06-Dec-2016 02:13:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 500-363659/23 Calibration Date: 12/06/2016 02:40

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 24S1205ICV2.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2618	0.2564	0.0100	49.0	50.0	-2.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2358	0.2357	0.0100	50.0	50.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	1.322	1.305	0.0100	49.3	50.0	-1.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9066	0.8992	0.0100	49.6	50.0	-0.8	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Dec-2016 02:40:30 ALS Bottle#: 26 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 2
Misc. Info.: 500-0042086-023
Operator ID: EA Instrument ID: CMS25
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 12:02:41 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 12:02:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.684	2.679	0.005	95	28914	2000.0	2110.0	
17 Isopropyl alcohol	45	3.229	3.224	0.005	63	36729	500.0	538.2	
18 Acetonitrile	41	3.339	3.339	0.000	100	75462	500.0	493.4	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	80946	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	525728	50.0	52.9	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	393290	50.0	52.8	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	383873	50.0	51.4	
36 Propionitrile	54	4.865	4.865	0.000	86	97413	500.0	504.9	
37 Ethyl acetate	43	4.870	4.870	0.000	99	131048	100.0	95.6	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	474962	500.0	546.9	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	68	143955	50.0	49.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	132362	50.0	50.0	
51 Isooctane	57	5.741	5.741	0.000	97	886910	50.0	52.6	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	92	245069	50.0	50.9	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	561541	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	88	31858	1250.0	1230.4	
57 Ethyl acrylate	55	6.433	6.433	0.000	97	103600	50.0	51.8	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	94	243353	50.0	56.1	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	8995	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	92	138040	100.0	104.4	
66 2-Nitropropane	43	7.072	7.072	0.000	97	52181	100.0	111.6	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	95	543495	50.0	49.3	
78 n-Butyl acetate	43	8.519	8.520	-0.001	96	113333	50.0	52.1	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	416410	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	88	242901	50.0	54.6	
91 Cyclohexanone	55	10.459	10.459	0.000	79	190167	5000.0	4670.4	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	89	186965	50.0	49.6	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	737606	50.0	52.9	
103 Pentachloroethane	167	11.461	11.461	0.000	89	99211	50.0	53.1	

Report Date: 06-Dec-2016 12:02:42 Chrom Revision: 2.2 05-Dec-2016 12:37:22
Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	95	207917	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	607052	50.0	55.7	
111 Benzyl chloride	126	12.111	12.111	0.000	97	35604	50.0	52.9	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	97	283868	50.0	54.6	
120 2-Methylnaphthalene	142	16.064	16.064	0.000	92	184207	50.0	52.8	
121 1-Methylnaphthalene	142	16.290	16.295	-0.005	0	145000	50.0	57.7	

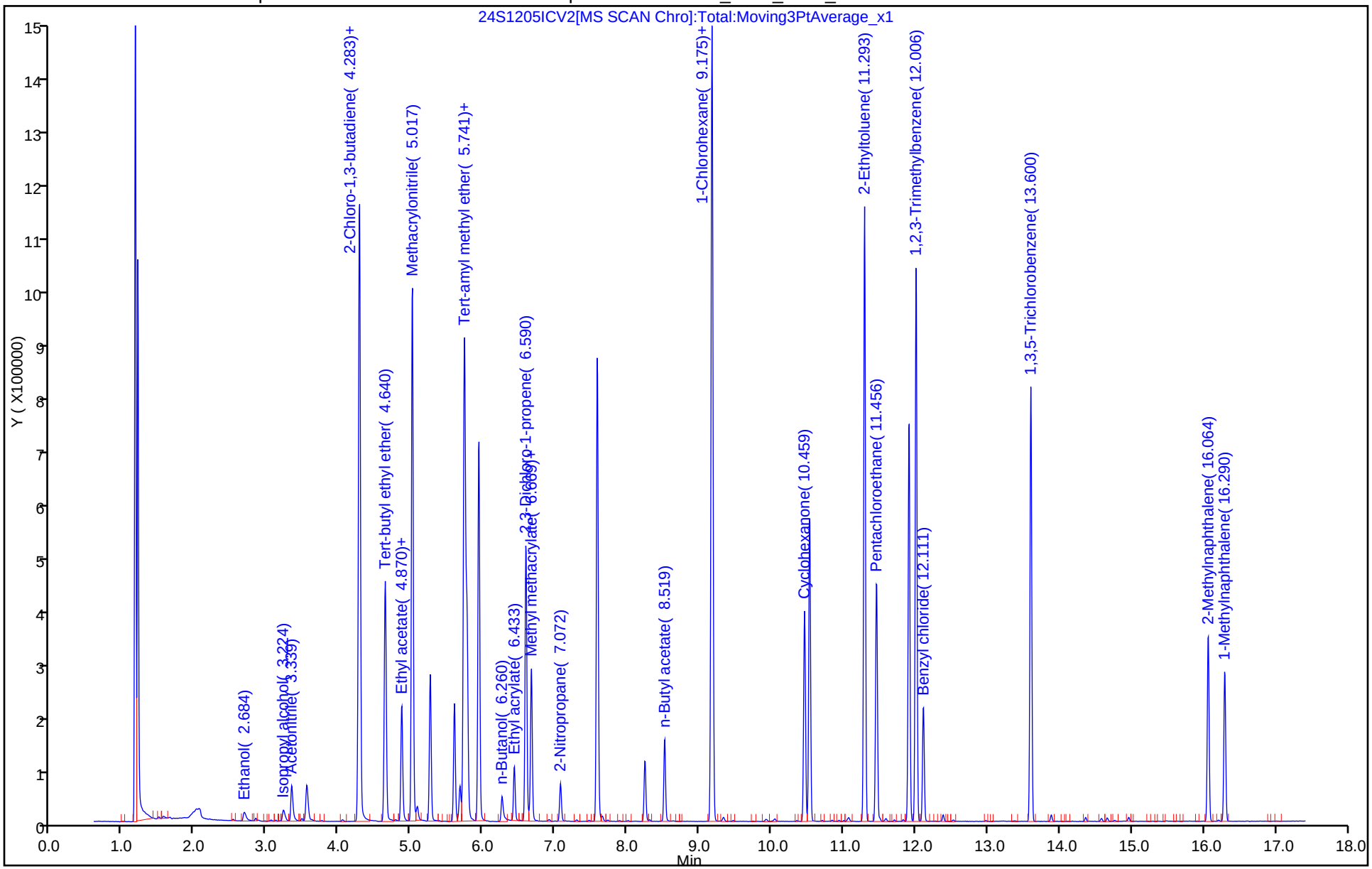
Reagents:

2,3DCLP SPK_00039	Amount Added: 5.00	Units: uL	
8260 ADDS SPK_00084	Amount Added: 5.00	Units: uL	
CYCLOHEX SPK_00217	Amount Added: 5.00	Units: uL	
POLRADDSSPK_00064	Amount Added: 5.00	Units: uL	
STD 2 SPK_00087	Amount Added: 5.00	Units: uL	
2ETTOL SPK_00006	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00123	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 06-Dec-2016 12:02:42 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d				
Injection Date:	06-Dec-2016 02:40:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 500-363659/23 Calibration Date: 12/06/2016 02:40

Instrument ID: CMS25 Calib Start Date: 12/05/2016 20:39

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 00:49

Lab File ID: 24S1205ICV2.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.1786	0.0010	2110	2000	5.5	30.0
Isopropyl alcohol	Lin1		0.9075	0.0010	538	500	7.6	30.0
Acetonitrile	Ave	0.0136	0.0134	0.0010	493	500	-1.3	30.0
Isopropyl ether	Ave	0.8852	0.9362	0.0100	52.9	50.0	5.8	30.0
2-Chloro-1,3-butadiene	Ave	0.6628	0.7004	0.0100	52.8	50.0	5.7	30.0
Tert-butyl ethyl ether	Ave	0.6648	0.6836	0.0010	51.4	50.0	2.8	30.0
Propionitrile	Ave	0.0172	0.0174	0.0010	505	500	1.0	30.0
Ethyl acetate	Ave	0.1220	0.1167	0.0100	95.6	100	-4.4	30.0
Methacrylonitrile	Ave	0.0773	0.0846	0.0100	547	500	9.4	30.0
Isooctane	Ave	1.501	1.579	0.0100	52.6	50.0	5.2	30.0
Tert-amyl methyl ether	Ave	0.4286	0.4364	0.0100	50.9	50.0	1.8	30.0
n-Butyl alcohol	Ave	0.3199	0.3149	0.0010	1230	1250	-1.6	30.0
Ethyl acrylate	Ave	0.1781	0.1845	0.0010	51.8	50.0	3.6	30.0
2,3-Dichloro-1-propene	Ave	0.3864	0.4334	0.0010	56.1	50.0	12.2	30.0
Methyl methacrylate	Ave	0.1178	0.1229	0.0100	104	100	4.4	30.0
2-Nitropropane	Ave	0.0561	0.0627	0.0100	112	100	11.6	30.0
n-Butyl acetate	Ave	0.2610	0.2722	0.0010	52.1	50.0	4.3	30.0
1-Chlorohexane	Lin1		0.5833	0.0100	54.6	50.0	9.2	30.0
Cyclohexanone	Ave	0.0098	0.0092*	0.0100	4670	5000	-6.6	30.0
2-Ethyltoluene	Ave	3.353	3.548	0.0010	52.9	50.0	5.8	30.0
Pentachloroethane	Ave	0.4494	0.4772	0.0100	53.1	50.0	6.2	30.0
1,2,3-Trimethylbenzene	Ave	2.623	2.920	0.0010	55.7	50.0	11.3	30.0
Benzyl chloride	Ave	0.1618	0.1712	0.0010	52.9	50.0	5.9	30.0
1,3,5-Trichlorobenzene	Ave	1.250	1.365	0.0100	54.6	50.0	9.2	30.0
2-Methylnaphthalene	Ave	0.8389	0.8860	0.0100	52.8	50.0	5.6	30.0
1-Methylnaphthalene	Ave	0.6041	0.6974	0.0100	57.7	50.0	15.4	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Dec-2016 02:40:30 ALS Bottle#: 26 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 2
Misc. Info.: 500-0042086-023
Operator ID: EA Instrument ID: CMS25
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 06-Dec-2016 12:02:41 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: alikpalae Date: 06-Dec-2016 12:02:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.684	2.679	0.005	95	28914	2000.0	2110.0	
17 Isopropyl alcohol	45	3.229	3.224	0.005	63	36729	500.0	538.2	
18 Acetonitrile	41	3.339	3.339	0.000	100	75462	500.0	493.4	
* 22 TBA-d9 (IS)	65	3.549	3.549	0.000	0	80946	1000.0	1000.0	
30 Isopropyl ether	45	4.278	4.278	0.000	95	525728	50.0	52.9	
31 2-Chloro-1,3-butadiene	53	4.283	4.283	0.000	91	393290	50.0	52.8	
32 Tert-butyl ethyl ether	59	4.640	4.640	0.000	99	383873	50.0	51.4	
36 Propionitrile	54	4.865	4.865	0.000	86	97413	500.0	504.9	
37 Ethyl acetate	43	4.870	4.870	0.000	99	131048	100.0	95.6	
38 Methacrylonitrile	41	5.017	5.017	0.000	94	474962	500.0	546.9	
$ 42 Dibromofluoromethane	113	5.264	5.264	0.000	68	143955	50.0	49.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.599	5.599	0.000	0	132362	50.0	50.0	
51 Isooctane	57	5.741	5.741	0.000	97	886910	50.0	52.6	
52 Tert-amyl methyl ether	73	5.772	5.772	0.000	92	245069	50.0	50.9	
* 54 Fluorobenzene (IS)	96	5.940	5.940	0.000	98	561541	50.0	50.0	
55 n-Butanol	56	6.260	6.260	0.000	88	31858	1250.0	1230.4	
57 Ethyl acrylate	55	6.433	6.433	0.000	97	103600	50.0	51.8	
60 2,3-Dichloro-1-propene	75	6.590	6.590	0.000	94	243353	50.0	56.1	
* 61 1,4-Dioxane-d8	96	6.637	6.637	0.000	0	8995	1000.0	1000.0	
62 Methyl methacrylate	41	6.669	6.669	0.000	92	138040	100.0	104.4	
66 2-Nitropropane	43	7.072	7.072	0.000	97	52181	100.0	111.6	
$ 70 Toluene-d8 (Surr)	98	7.581	7.581	0.000	95	543495	50.0	49.3	
78 n-Butyl acetate	43	8.519	8.520	-0.001	96	113333	50.0	52.1	
* 81 Chlorobenzene-d5	117	9.170	9.170	0.000	86	416410	50.0	50.0	
82 1-Chlorohexane	55	9.180	9.180	0.000	88	242901	50.0	54.6	
91 Cyclohexanone	55	10.459	10.459	0.000	79	190167	5000.0	4670.4	
$ 92 4-Bromofluorobenzene (Surr	95	10.528	10.528	0.000	89	186965	50.0	49.6	
101 2-Ethyltoluene	105	11.293	11.293	0.000	0	737606	50.0	52.9	
103 Pentachloroethane	167	11.461	11.461	0.000	89	99211	50.0	53.1	

Report Date: 06-Dec-2016 12:02:42 Chrom Revision: 2.2 05-Dec-2016 12:37:22
Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 108 1,4-Dichlorobenzene-d4	152	11.912	11.912	0.000	95	207917	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	12.006	12.006	0.000	95	607052	50.0	55.7	
111 Benzyl chloride	126	12.111	12.111	0.000	97	35604	50.0	52.9	
115 1,3,5-Trichlorobenzene	180	13.600	13.600	0.000	97	283868	50.0	54.6	
120 2-Methylnaphthalene	142	16.064	16.064	0.000	92	184207	50.0	52.8	
121 1-Methylnaphthalene	142	16.290	16.295	-0.005	0	145000	50.0	57.7	

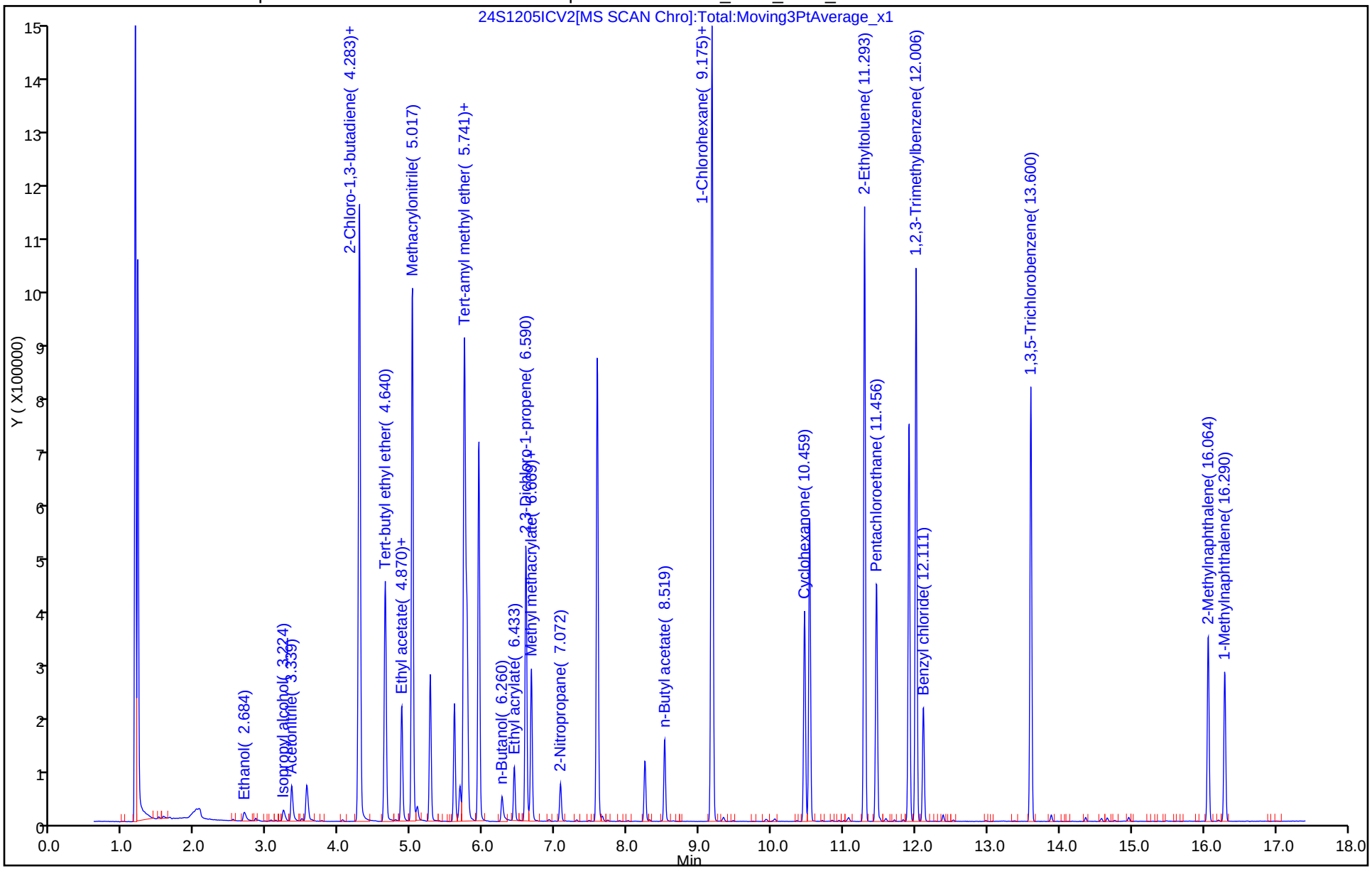
Reagents:

2,3DCLP SPK_00039	Amount Added:	5.00	Units: uL	
8260 ADDS SPK_00084	Amount Added:	5.00	Units: uL	
CYCLOHEX SPK_00217	Amount Added:	5.00	Units: uL	
POLRADDSSPK_00064	Amount Added:	5.00	Units: uL	
STD 2 SPK_00087	Amount Added:	5.00	Units: uL	
2ETTOL SPK_00006	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00123	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 06-Dec-2016 12:02:42 Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\24S1205ICV2.d				
Injection Date:	06-Dec-2016 02:40:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCV 500-407027/3 Calibration Date: 10/26/2017 10:05

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25D1026.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2618	0.2749	0.0100	52.5	50.0	5.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2358	0.2154	0.0100	45.7	50.0	-8.7	50.0
Toluene-d8 (Surr)	Ave	1.322	1.224	0.0100	46.3	50.0	-7.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9066	0.8490	0.0100	46.8	50.0	-6.4	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2017 10:05:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048625-003
Operator ID: JH Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub40
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:25:52 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:25:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.611	2.611	0.000	94	20483	2000.0	1946.0	
17 Isopropyl alcohol	45	3.161	3.161	0.000	95	22810	500.0	435.9	
18 Acetonitrile	41	3.282	3.282	0.000	95	59093	500.0	315.6	
* 22 TBA-d9 (IS)	65	3.486	3.486	0.000	0	61873	1000.0	1000.0	
30 Isopropyl ether	45	4.220	4.220	0.000	96	405389	50.0	33.3	
31 2-Chloro-1,3-butadiene	53	4.231	4.231	0.000	96	317707	50.0	34.9	
32 Tert-butyl ethyl ether	59	4.582	4.582	0.000	98	301546	50.0	33.0	
36 Propionitrile	54	4.808	4.808	0.000	100	97339	500.0	412.1	
37 Ethyl acetate	43	4.813	4.813	0.000	99	95483	100.0	56.9	
38 Methacrylonitrile	41	4.954	4.954	0.000	89	337989	500.0	317.9	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	63	188941	50.0	52.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.542	5.542	0.000	0	148036	50.0	45.7	
51 Isooctane	57	5.678	5.678	0.000	93	886190	50.0	42.9	
52 Tert-amyl methyl ether	73	5.715	5.715	0.000	89	185246	50.0	31.4	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	99	687430	50.0	50.0	
55 n-Butanol	56	6.197	6.197	0.000	83	25280	1250.0	1277.4	
57 Ethyl acrylate	55	6.370	6.370	0.000	96	86932	50.0	35.5	
60 2,3-Dichloro-1-propene	75	6.533	6.533	0.000	87	240308	50.0	45.2	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	10312	1000.0	1000.0	
62 Methyl methacrylate	41	6.606	6.606	0.000	86	93322	100.0	57.6	
66 2-Nitropropane	43	7.010	7.010	0.000	97	29666	100.0	51.5	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	627735	50.0	46.3	
78 n-Butyl acetate	43	8.457	8.457	0.000	93	68882	50.0	25.7	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	82	512809	50.0	50.0	
82 1-Chlorohexane	55	9.117	9.117	0.000	91	224348	50.0	40.6	
91 Cyclohexanone	55	10.397	10.397	0.000	85	160882	5000.0	3364.7	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	96	207292	50.0	46.8	
101 2-Ethyltoluene	105	11.230	11.230	0.000	0	713291	50.0	43.6	
103 Pentachloroethane	167	11.393	11.393	0.000	91	111983	50.0	51.0	

Report Date: 26-Oct-2017 13:25:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	244161	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	11.943	11.943	0.000	94	582389	50.0	45.5	
111 Benzyl chloride	126	12.043	12.043	0.000	96	35831	50.0	45.4	
115 1,3,5-Trichlorobenzene	180	13.537	13.537	0.000	96	279656	50.0	45.8	
120 2-Methylnaphthalene	142	15.996	15.996	0.000	88	118930	50.0	29.0	
121 1-Methylnaphthalene	142	16.227	16.227	0.000	0	101251	50.0	34.3	

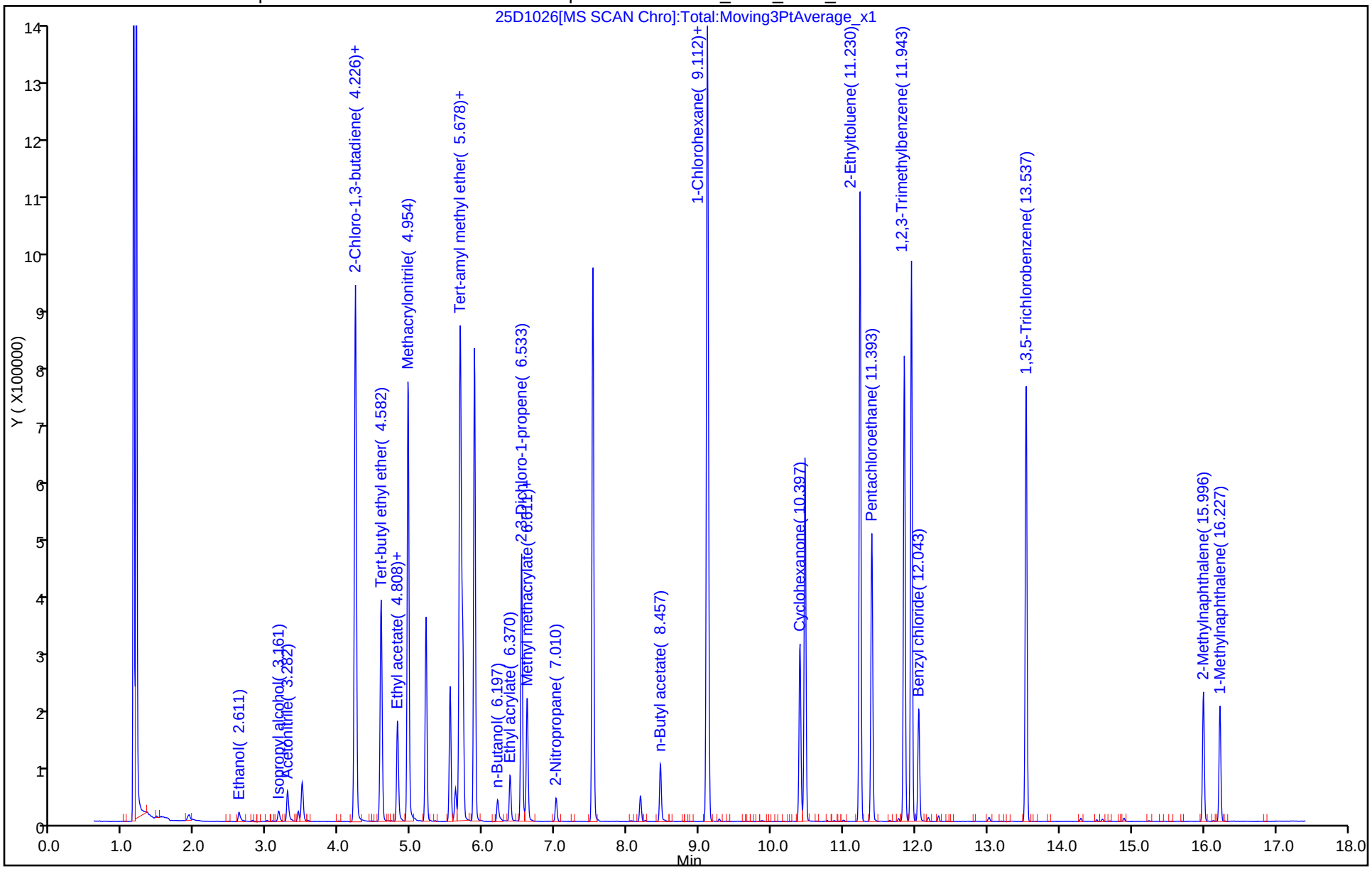
Reagents:

8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 13:25:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d				
Injection Date:	26-Oct-2017 10:05:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCV 500-407027/3 Calibration Date: 10/26/2017 10:05

Instrument ID: CMS25 Calib Start Date: 12/05/2016 20:39

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 00:49

Lab File ID: 25D1026.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.1655	0.0010	1950	2000	-2.7	50.0
Isopropyl alcohol	Lin1		0.7373	0.0010	436	500	-12.8	50.0
Acetonitrile	Ave	0.0136	0.0086	0.0010	316	500	-36.9	50.0
Isopropyl ether	Ave	0.8852	0.5897	0.0100	33.3	50.0	-33.4	50.0
2-Chloro-1,3-butadiene	Ave	0.6628	0.4622	0.0100	34.9	50.0	-30.3	50.0
Tert-butyl ethyl ether	Ave	0.6648	0.4387	0.0010	33.0	50.0	-34.0	50.0
Propionitrile	Ave	0.0172	0.0142	0.0010	412	500	-17.6	50.0
Ethyl acetate	Ave	0.1220	0.0695	0.0100	56.9	100	-43.1	50.0
Methacrylonitrile	Ave	0.0773	0.0492	0.0100	318	500	-36.4	50.0
Isooctane	Ave	1.501	1.289	0.0100	42.9	50.0	-14.1	50.0
Tert-amyl methyl ether	Ave	0.4286	0.2695	0.0100	31.4	50.0	-37.1	50.0
n-Butyl alcohol	Ave	0.3199	0.3269	0.0010	1280	1250	2.2	50.0
Ethyl acrylate	Ave	0.1781	0.1265	0.0010	35.5	50.0	-29.0	50.0
2,3-Dichloro-1-propene	Ave	0.3864	0.3496	0.0010	45.2	50.0	-9.5	50.0
Methyl methacrylate	Ave	0.1178	0.0679	0.0100	57.6	100	-42.4	50.0
2-Nitropropane	Ave	0.0561	0.0289	0.0100	51.5	100	-48.5	50.0
n-Butyl acetate	Ave	0.2610	0.1343	0.0010	25.7	50.0	-48.5	50.0
1-Chlorohexane	Lin1		0.4375	0.0100	40.6	50.0	-18.7	50.0
Cyclohexanone	Ave	0.0098	0.0066*	0.0100	3360	5000	-32.7	50.0
2-Ethyltoluene	Ave	3.353	2.921	0.0010	43.6	50.0	-12.9	50.0
Pentachloroethane	Ave	0.4494	0.4586	0.0100	51.0	50.0	2.1	50.0
1,2,3-Trimethylbenzene	Ave	2.623	2.385	0.0010	45.5	50.0	-9.1	50.0
Benzyl chloride	Ave	0.1618	0.1468	0.0010	45.4	50.0	-9.3	50.0
1,3,5-Trichlorobenzene	Ave	1.250	1.145	0.0100	45.8	50.0	-8.4	50.0
2-Methylnaphthalene	Ave	0.8389	0.4871	0.0100	29.0	50.0	-41.9	50.0
1-Methylnaphthalene	Ave	0.6041	0.4147	0.0100	34.3	50.0	-31.4	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2017 10:05:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048625-003
Operator ID: JH Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub40
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:25:52 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:25:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.611	2.611	0.000	94	20483	2000.0	1946.0	
17 Isopropyl alcohol	45	3.161	3.161	0.000	95	22810	500.0	435.9	
18 Acetonitrile	41	3.282	3.282	0.000	95	59093	500.0	315.6	
* 22 TBA-d9 (IS)	65	3.486	3.486	0.000	0	61873	1000.0	1000.0	
30 Isopropyl ether	45	4.220	4.220	0.000	96	405389	50.0	33.3	
31 2-Chloro-1,3-butadiene	53	4.231	4.231	0.000	96	317707	50.0	34.9	
32 Tert-butyl ethyl ether	59	4.582	4.582	0.000	98	301546	50.0	33.0	
36 Propionitrile	54	4.808	4.808	0.000	100	97339	500.0	412.1	
37 Ethyl acetate	43	4.813	4.813	0.000	99	95483	100.0	56.9	
38 Methacrylonitrile	41	4.954	4.954	0.000	89	337989	500.0	317.9	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	63	188941	50.0	52.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.542	5.542	0.000	0	148036	50.0	45.7	
51 Isooctane	57	5.678	5.678	0.000	93	886190	50.0	42.9	
52 Tert-amyl methyl ether	73	5.715	5.715	0.000	89	185246	50.0	31.4	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	99	687430	50.0	50.0	
55 n-Butanol	56	6.197	6.197	0.000	83	25280	1250.0	1277.4	
57 Ethyl acrylate	55	6.370	6.370	0.000	96	86932	50.0	35.5	
60 2,3-Dichloro-1-propene	75	6.533	6.533	0.000	87	240308	50.0	45.2	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	10312	1000.0	1000.0	
62 Methyl methacrylate	41	6.606	6.606	0.000	86	93322	100.0	57.6	
66 2-Nitropropane	43	7.010	7.010	0.000	97	29666	100.0	51.5	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	627735	50.0	46.3	
78 n-Butyl acetate	43	8.457	8.457	0.000	93	68882	50.0	25.7	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	82	512809	50.0	50.0	
82 1-Chlorohexane	55	9.117	9.117	0.000	91	224348	50.0	40.6	
91 Cyclohexanone	55	10.397	10.397	0.000	85	160882	5000.0	3364.7	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	96	207292	50.0	46.8	
101 2-Ethyltoluene	105	11.230	11.230	0.000	0	713291	50.0	43.6	
103 Pentachloroethane	167	11.393	11.393	0.000	91	111983	50.0	51.0	

Report Date: 26-Oct-2017 13:25:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	244161	50.0	50.0	
110 1,2,3-Trimethylbenzene	105	11.943	11.943	0.000	94	582389	50.0	45.5	
111 Benzyl chloride	126	12.043	12.043	0.000	96	35831	50.0	45.4	
115 1,3,5-Trichlorobenzene	180	13.537	13.537	0.000	96	279656	50.0	45.8	
120 2-Methylnaphthalene	142	15.996	15.996	0.000	88	118930	50.0	29.0	
121 1-Methylnaphthalene	142	16.227	16.227	0.000	0	101251	50.0	34.3	

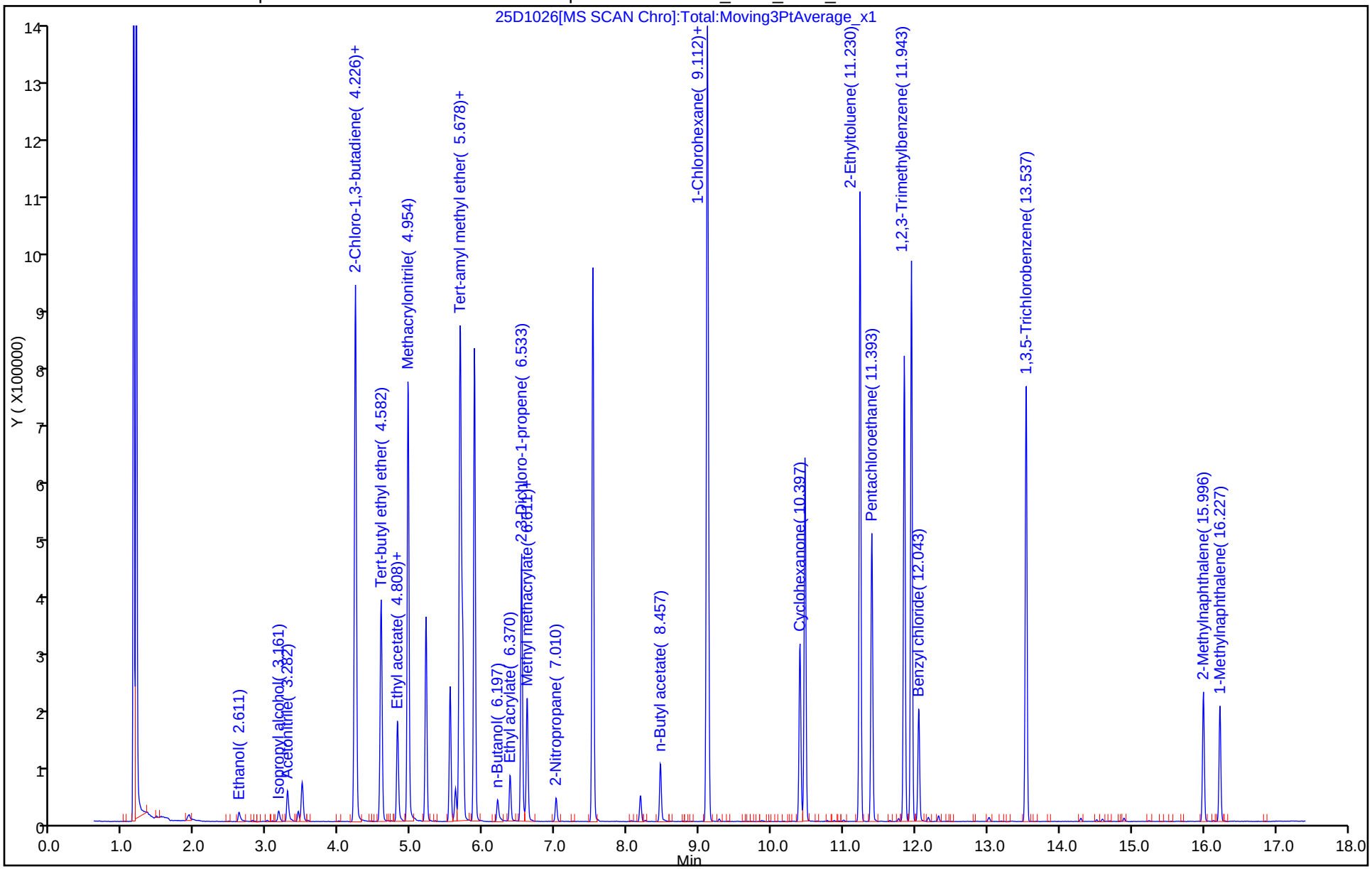
Reagents:

8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 13:25:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25D1026.d				
Injection Date:	26-Oct-2017 10:05:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVIS 500-407027/4 Calibration Date: 10/26/2017 10:35

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1026.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2698	0.0100	39.0	50.0	-22.1	50.0
Chloromethane	Ave	0.4229	0.3079	0.1000	36.4	50.0	-27.2	50.0
Vinyl chloride	Ave	0.3352	0.3318	0.0100	49.5	50.0	-1.0	20.0
Butadiene	Ave	0.3239	0.2131	0.0100	32.9	50.0	-34.2	50.0
Bromomethane	Ave	0.1096	0.1473	0.0100	67.2	50.0	34.4	50.0
Chloroethane	Ave	0.1946	0.1763	0.0100	45.3	50.0	-9.4	50.0
Dichlorofluoromethane	Ave	0.5115	0.4330	0.0100	42.3	50.0	-15.4	50.0
Trichlorofluoromethane	Ave	0.4919	0.4983	0.0100	50.6	50.0	1.3	50.0
Ethyl ether	Ave	0.1591	0.1353	0.0100	42.5	50.0	-15.0	50.0
Acrolein	Ave	0.0216	0.0127	0.0010	1170	2000	-41.4	50.0
1,1-Dichloroethene	Ave	0.2582	0.2543	0.0100	49.2	50.0	-1.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2877	0.3032	0.0100	52.7	50.0	5.4	50.0
Acetone	Lin1		0.0244	0.0100	37.4	50.0	-25.1	50.0
Iodomethane	Lin1		0.3621	0.0100	50.5	50.0	1.0	50.0
Carbon disulfide	Ave	0.8665	0.8045	0.0100	46.4	50.0	-7.2	50.0
3-Chloropropene	Ave	0.1341	0.1294	0.0100	48.3	50.0	-3.5	50.0
Methyl acetate	Ave	0.0836	0.0619	0.0100	74.0	100	-26.0	50.0
Methylene Chloride	Ave	0.2336	0.2127	0.0100	45.5	50.0	-9.0	50.0
tert-Butyl alcohol	Ave	1.302	1.174	0.0100	451	500	-9.8	50.0
Acrylonitrile	Ave	0.0489	0.0428	0.0010	438	500	-12.5	50.0
trans-1,2-Dichloroethene	Ave	0.2784	0.2751	0.0100	49.4	50.0	-1.2	50.0
Methyl tert-butyl ether	Ave	0.3892	0.2842	0.0100	36.5	50.0	-27.0	50.0
Hexane	Ave	0.5885	0.5236	0.0100	44.5	50.0	-11.0	50.0
1,1-Dichloroethane	Ave	0.5210	0.4845	0.1000	46.5	50.0	-7.0	50.0
Vinyl acetate	Ave	0.2990	0.1986	0.0100	33.2	50.0	-33.6	50.0
2,2-Dichloropropane	Ave	0.4548	0.3929	0.0100	43.2	50.0	-13.6	50.0
cis-1,2-Dichloroethene	Ave	0.2869	0.2770	0.0100	48.3	50.0	-3.4	50.0
Methyl Ethyl Ketone	Ave	0.0499	0.0366	0.0100	36.7	50.0	-26.6	50.0
Bromochloromethane	Ave	0.1148	0.1246	0.0100	54.3	50.0	8.5	50.0
Tetrahydrofuran	Lin1		0.0205	0.0100	61.9	100	-38.1	50.0
Chloroform	Ave	0.4539	0.4361	0.0100	48.0	50.0	-3.9	20.0
1,1,1-Trichloroethane	Ave	0.4626	0.4586	0.0100	49.6	50.0	-0.9	50.0
Cyclohexane	Ave	0.6573	0.5903	0.0100	44.9	50.0	-10.2	50.0
Carbon tetrachloride	Ave	0.4567	0.4887	0.0100	53.5	50.0	7.0	50.0
1,1-Dichloropropene	Ave	0.3786	0.3569	0.0100	47.1	50.0	-5.7	50.0
Isobutyl alcohol	Lin2		0.4462	0.0010	1130	1250	-9.2	50.0
Benzene	Ave	0.998	0.9065	0.0100	45.4	50.0	-9.2	50.0
1,2-Dichloroethane	Ave	0.2971	0.2691	0.0100	45.3	50.0	-9.4	50.0
Heptane	Ave	0.6055	0.4324	0.0100	35.7	50.0	-28.6	50.0
Trichloroethene	Ave	0.3252	0.3503	0.0100	53.9	50.0	7.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVIS 500-407027/4 Calibration Date: 10/26/2017 10:35

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1026.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4990	0.4556	0.0100	45.6	50.0	-8.7	50.0
1,2-Dichloropropane	Ave	0.2554	0.2368	0.0100	46.4	50.0	-7.3	20.0
Dibromomethane	Ave	0.1049	0.1066	0.0100	50.8	50.0	1.6	50.0
1,4-Dioxane	Ave	0.9831	0.9525	0.0010	969	1000	-3.1	50.0
Bromodichloromethane	Ave	0.3052	0.3019	0.0100	49.5	50.0	-1.1	50.0
2-Chloroethyl vinyl ether	Lin2		0.0805	0.0100	37.6	50.0	-24.9	50.0
cis-1,3-Dichloropropene	Ave	0.4516	0.3719	0.0100	41.2	50.0	-17.6	50.0
methyl isobutyl ketone	Ave	0.1392	0.0952	0.0100	34.2	50.0	-31.6	50.0
Toluene	Ave	0.9038	0.7831	0.0100	43.3	50.0	-13.4	20.0
trans-1,3-Dichloropropene	Ave	0.3440	0.3025	0.0100	44.0	50.0	-12.1	50.0
Ethyl methacrylate	Ave	0.1953	0.1571	0.0100	40.2	50.0	-19.6	50.0
1,1,2-Trichloroethane	Ave	0.1824	0.1768	0.0100	48.4	50.0	-3.1	50.0
Tetrachloroethene	Ave	0.4873	0.4758	0.0100	48.8	50.0	-2.4	50.0
1,3-Dichloropropane	Ave	0.3060	0.2821	0.0100	46.1	50.0	-7.8	50.0
2-Hexanone	Ave	0.0899	0.0608	0.0100	33.8	50.0	-32.4	50.0
Dibromochloromethane	Ave	0.2781	0.2916	0.0100	52.4	50.0	4.9	50.0
1,2-Dibromoethane	Ave	0.1810	0.1805	0.0100	49.9	50.0	-0.3	50.0
Chlorobenzene	Ave	0.9649	0.9508	0.3000	49.3	50.0	-1.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3409	0.3453	0.0100	50.7	50.0	1.3	50.0
Ethylbenzene	Ave	0.5539	0.5181	0.0100	46.8	50.0	-6.5	20.0
m&p-Xylene	Ave	1.327	1.223	0.0100	46.1	50.0	-7.8	50.0
o-Xylene	Ave	1.316	1.170	0.0100	44.4	50.0	-11.1	50.0
Styrene	Ave	0.9856	0.9565	0.0100	48.5	50.0	-3.0	50.0
Bromoform	Ave	0.1467	0.1610	0.1000	54.9	50.0	9.7	50.0
Isopropylbenzene	Ave	3.445	3.333	0.0100	48.4	50.0	-3.3	50.0
Bromobenzene	Ave	0.7858	0.7595	0.0100	48.3	50.0	-3.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3345	0.3091	0.3000	46.2	50.0	-7.6	50.0
1,2,3-Trichloropropane	Ave	0.3757	0.3140	0.0100	41.8	50.0	-16.4	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1477	0.1087	0.0100	36.8	50.0	-26.4	50.0
N-Propylbenzene	Ave	3.971	3.718	0.0100	46.8	50.0	-6.4	50.0
2-Chlorotoluene	Ave	2.187	2.052	0.0100	46.9	50.0	-6.2	50.0
1,3,5-Trimethylbenzene	Ave	2.746	2.496	0.0100	45.5	50.0	-9.1	50.0
4-Chlorotoluene	Ave	2.536	2.330	0.0100	45.9	50.0	-8.1	50.0
p-Isopropyltoluene	Ave	2.627	2.567	0.0100	48.9	50.0	-2.3	50.0
1,2,4-Trimethylbenzene	Ave	2.688	2.493	0.0100	46.4	50.0	-7.3	50.0
sec-Butylbenzene	Ave	3.811	3.607	0.0100	47.3	50.0	-5.4	50.0
1,3-Dichlorobenzene	Ave	1.549	1.558	0.0100	50.3	50.0	0.5	50.0
tert-Butylbenzene	Ave	3.305	3.176	0.0100	48.0	50.0	-3.9	50.0
1,4-Dichlorobenzene	Ave	1.501	1.512	0.0100	50.4	50.0	0.8	50.0
1,2-Dichlorobenzene	Ave	1.289	1.288	0.0100	50.0	50.0	-0.0	50.0
n-Butylbenzene	Ave	2.903	2.677	0.0100	46.1	50.0	-7.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVIS 500-407027/4 Calibration Date: 10/26/2017 10:35

Instrument ID: CMS25 Calib Start Date: 12/05/2016 15:34

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/06/2016 01:45

Lab File ID: 25S1026.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin2		0.0490	0.0100	42.8	50.0	-14.5	50.0
1,2,4-Trichlorobenzene	Ave	0.9658	0.8532	0.0100	44.2	50.0	-11.7	50.0
Hexachlorobutadiene	Ave	0.7069	0.6905	0.0100	48.8	50.0	-2.3	50.0
Naphthalene	Ave	1.259	1.044	0.0100	41.5	50.0	-17.1	50.0
1,2,3-Trichlorobenzene	Ave	0.7672	0.6952	0.0100	45.3	50.0	-9.4	50.0
Dibromofluoromethane	Ave	0.2618	0.2742	0.0100	52.4	50.0	4.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2358	0.2267	0.0100	48.1	50.0	-3.8	50.0
Toluene-d8 (Surr)	Ave	1.322	1.238	0.0100	46.8	50.0	-6.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9066	0.8216	0.0100	45.3	50.0	-9.4	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25S1026.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Oct-2017 10:35:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048625-004
Operator ID: JH Instrument ID: CMS25
Sublist: chrom-8260W25cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:26:42 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:26:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.347	1.347	0.000	88	169467	50.0	39.0	
2 Chloromethane	50	1.525	1.525	0.000	88	193395	50.0	36.4	
3 Vinyl chloride	62	1.641	1.641	0.000	83	208401	50.0	49.5	
4 Butadiene	39	1.683	1.683	0.000	80	133819	50.0	32.9	
5 Bromomethane	94	1.971	1.971	0.000	90	92505	50.0	67.2	
6 Chloroethane	64	2.092	2.092	0.000	94	110736	50.0	45.3	
7 Dichlorofluoromethane	67	2.328	2.328	0.000	82	271910	50.0	42.3	
8 Trichlorofluoromethane	101	2.370	2.370	0.000	77	312957	50.0	50.6	
10 Ethyl ether	59	2.700	2.700	0.000	90	84976	50.0	42.5	
11 Acrolein	56	2.826	2.826	0.000	96	317736	2000.0	1172.1	
12 1,1-Dichloroethene	96	2.920	2.920	0.000	87	159705	50.0	49.2	
13 1,1,2-Trichloro-1,2,2-trif	101	2.936	2.936	0.000	80	190400	50.0	52.7	
14 Acetone	43	2.999	2.999	0.000	90	15298	50.0	37.4	
15 Iodomethane	142	3.067	3.067	0.000	98	227411	50.0	50.5	
16 Carbon disulfide	76	3.125	3.125	0.000	99	505234	50.0	46.4	
19 3-Chloro-1-propene	76	3.303	3.303	0.000	88	81273	50.0	48.3	
20 Methyl acetate	43	3.339	3.339	0.000	98	77741	100.0	74.0	
21 Methylene Chloride	84	3.434	3.434	0.000	95	133569	50.0	45.5	
* 22 TBA-d9 (IS)	65	3.497	3.497	0.000	0	59180	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.581	3.581	0.000	92	34742	500.0	450.8	
24 Acrylonitrile	53	3.691	3.691	0.000	99	268605	500.0	437.6	
25 trans-1,2-Dichloroethene	96	3.712	3.712	0.000	92	172796	50.0	49.4	
26 Methyl tert-butyl ether	73	3.717	3.717	0.000	72	178461	50.0	36.5	
27 Hexane	57	3.995	3.995	0.000	84	328855	50.0	44.5	
28 1,1-Dichloroethane	63	4.136	4.136	0.000	85	304291	50.0	46.5	
29 Vinyl acetate	43	4.205	4.205	0.000	99	124700	50.0	33.2	
33 2,2-Dichloropropane	77	4.718	4.718	0.000	66	246772	50.0	43.2	
34 cis-1,2-Dichloroethene	96	4.724	4.724	0.000	85	173972	50.0	48.3	
35 2-Butanone (MEK)	43	4.750	4.750	0.000	93	23002	50.0	36.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	4.960	4.960	0.000	90	78231	50.0	54.3	
40 Tetrahydrofuran	42	5.012	5.012	0.000	84	25779	100.0	61.9	
41 Chloroform	83	5.043	5.043	0.000	81	273877	50.0	48.0	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	60	172232	50.0	52.4	
43 1,1,1-Trichloroethane	97	5.222	5.222	0.000	91	287988	50.0	49.6	
44 Cyclohexane	56	5.274	5.274	0.000	88	370755	50.0	44.9	
45 Carbon tetrachloride	117	5.384	5.384	0.000	81	306897	50.0	53.5	
46 1,1-Dichloropropene	75	5.390	5.390	0.000	91	224168	50.0	47.1	
47 Isobutyl alcohol	43	5.531	5.531	0.000	46	33004	1250.0	1134.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.542	5.542	0.000	0	142390	50.0	48.1	
49 Benzene	78	5.594	5.594	0.000	97	569337	50.0	45.4	
50 1,2-Dichloroethane	62	5.615	5.615	0.000	88	169010	50.0	45.3	
53 n-Heptane	43	5.872	5.872	0.000	75	271546	50.0	35.7	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	95	628042	50.0	50.0	
56 Trichloroethene	130	6.249	6.249	0.000	86	219993	50.0	53.9	
58 Methylcyclohexane	83	6.443	6.443	0.000	88	286103	50.0	45.6	
59 1,2-Dichloropropane	63	6.480	6.480	0.000	95	148719	50.0	46.4	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	10872	1000.0	1000.0	
63 Dibromomethane	93	6.601	6.601	0.000	89	66950	50.0	50.8	
64 1,4-Dioxane	88	6.627	6.627	0.000	90	10356	1000.0	968.9	
65 Dichlorobromomethane	83	6.768	6.768	0.000	91	189576	50.0	49.5	
67 2-Chloroethyl vinyl ether	63	7.088	7.088	0.000	89	37834	50.0	37.6	
68 cis-1,3-Dichloropropene	75	7.235	7.235	0.000	90	174737	50.0	41.2	
69 4-Methyl-2-pentanone (MIBK	43	7.408	7.408	0.000	93	44727	50.0	34.2	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	581569	50.0	46.8	
71 Toluene	92	7.592	7.592	0.000	93	367883	50.0	43.3	
72 trans-1,3-Dichloropropene	75	7.833	7.833	0.000	87	142125	50.0	44.0	
73 Ethyl methacrylate	69	7.938	7.938	0.000	93	73798	50.0	40.2	
74 1,1,2-Trichloroethane	97	8.032	8.032	0.000	88	83038	50.0	48.4	
75 Tetrachloroethene	166	8.184	8.184	0.000	88	223536	50.0	48.8	
76 1,3-Dichloropropane	76	8.216	8.216	0.000	90	132528	50.0	46.1	
77 2-Hexanone	43	8.315	8.315	0.000	90	28540	50.0	33.8	
79 Chlorodibromomethane	129	8.462	8.462	0.000	89	137009	50.0	52.4	
80 Ethylene Dibromide	107	8.583	8.583	0.000	98	84812	50.0	49.9	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	81	469795	50.0	50.0	
83 Chlorobenzene	112	9.138	9.138	0.000	93	446679	50.0	49.3	
84 1,1,1,2-Tetrachloroethane	131	9.233	9.233	0.000	90	162240	50.0	50.7	
85 Ethylbenzene	106	9.264	9.264	0.000	99	243382	50.0	46.8	
86 m-Xylene & p-Xylene	91	9.400	9.400	0.000	0	574430	50.0	46.1	
87 o-Xylene	91	9.857	9.857	0.000	94	549591	50.0	44.4	
88 Styrene	104	9.872	9.872	0.000	95	449349	50.0	48.5	
89 Bromoform	173	10.082	10.082	0.000	95	75618	50.0	54.9	
90 Isopropylbenzene	105	10.292	10.292	0.000	97	798577	50.0	48.4	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	95	196880	50.0	45.3	
93 Bromobenzene	156	10.638	10.638	0.000	85	181999	50.0	48.3	
94 1,1,2,2-Tetrachloroethane	83	10.648	10.648	0.000	71	74060	50.0	46.2	
95 1,2,3-Trichloropropane	75	10.695	10.695	0.000	85	75242	50.0	41.8	
96 trans-1,4-Dichloro-2-buten	53	10.716	10.716	0.000	87	26049	50.0	36.8	
97 N-Propylbenzene	91	10.779	10.779	0.000	97	890908	50.0	46.8	
98 2-Chlorotoluene	91	10.874	10.874	0.000	96	491794	50.0	46.9	
99 1,3,5-Trimethylbenzene	105	10.989	10.989	0.000	93	598054	50.0	45.5	
100 4-Chlorotoluene	91	11.000	11.000	0.000	94	558258	50.0	45.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Isopropyltoluene	119	11.377	11.377	0.000	89	615033	50.0	48.9	
104 1,2,4-Trimethylbenzene	105	11.435	11.435	0.000	94	597273	50.0	46.4	
105 sec-Butylbenzene	105	11.644	11.644	0.000	93	864288	50.0	47.3	
106 1,3-Dichlorobenzene	146	11.765	11.765	0.000	97	373237	50.0	50.3	
107 tert-Butylbenzene	119	11.823	11.823	0.000	77	760907	50.0	48.0	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	239617	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.875	11.875	0.000	97	362368	50.0	50.4	
112 n-Butylbenzene	91	12.321	12.321	0.000	96	641350	50.0	46.1	
113 1,2-Dichlorobenzene	146	12.321	12.321	0.000	68	308741	50.0	50.0	
114 1,2-Dibromo-3-Chloropropan	75	13.275	13.275	0.000	44	11740	50.0	42.8	
116 1,2,4-Trichlorobenzene	180	14.297	14.297	0.000	93	204438	50.0	44.2	
117 Hexachlorobutadiene	225	14.518	14.518	0.000	83	165463	50.0	48.8	
118 Naphthalene	128	14.596	14.596	0.000	99	250066	50.0	41.5	
119 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	94	166569	50.0	45.3	
S 122 1,2-Dichloroethene, Total	1				0		100.0	97.7	
S 123 Xylenes, Total	1				0		100.0	90.5	

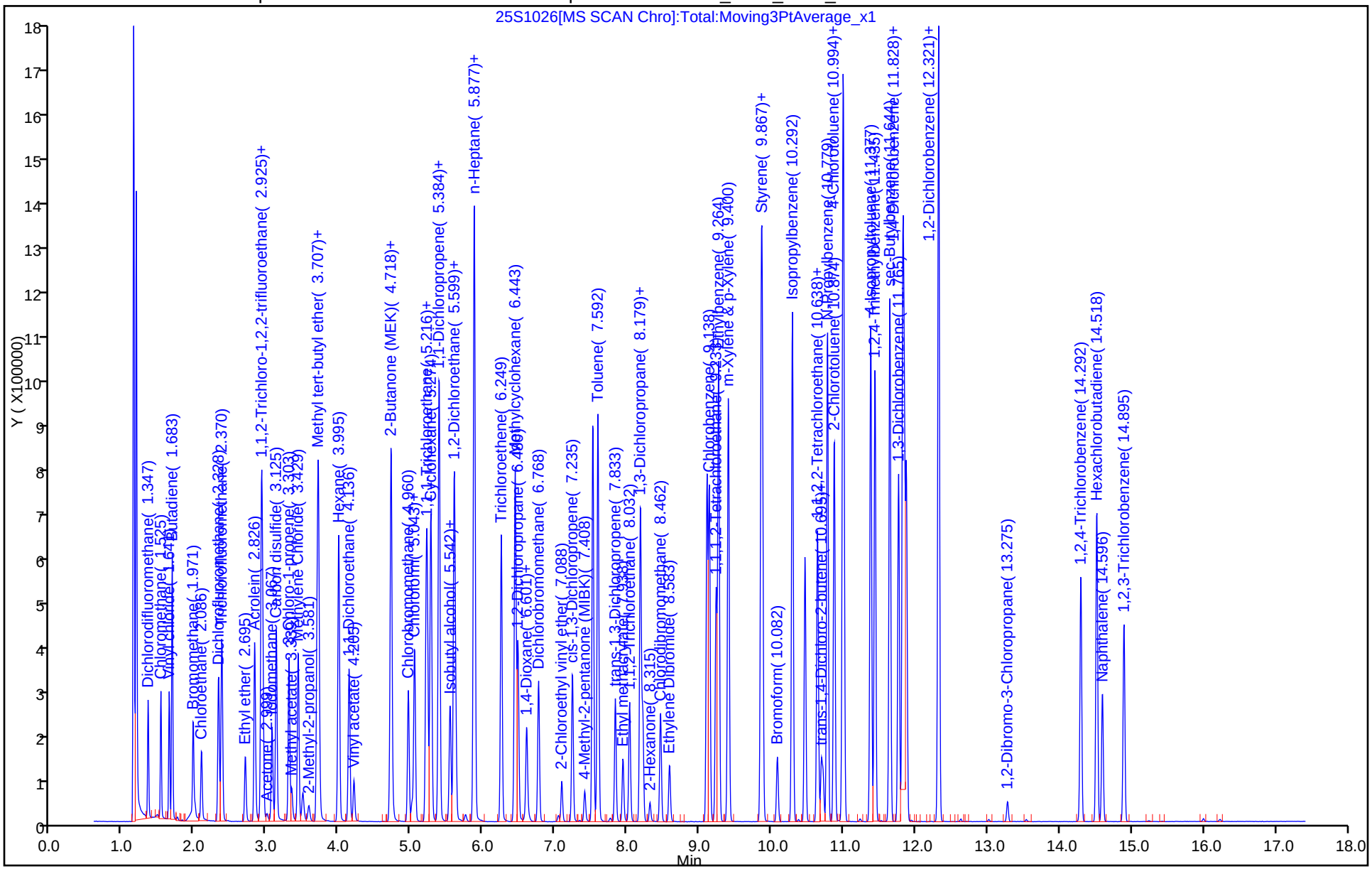
Reagents:

8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 13:26:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25S1026.d				
Injection Date:	26-Oct-2017 10:35:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25B1205.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Dec-2016 14:57:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0042086-001				
Operator ID:	EA	Instrument ID:	CMS25		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\8260W25cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Last Update:	05-Dec-2016 15:18:41	Calib Date:	20-Jun-2016 23:57:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20160620-38754.b\25K0620J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK018				
First Level Reviewer: alikpalae		Date:	05-Dec-2016 15:18:41		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 127 BFB	95	10.528	10.528	0.000	93	39916	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

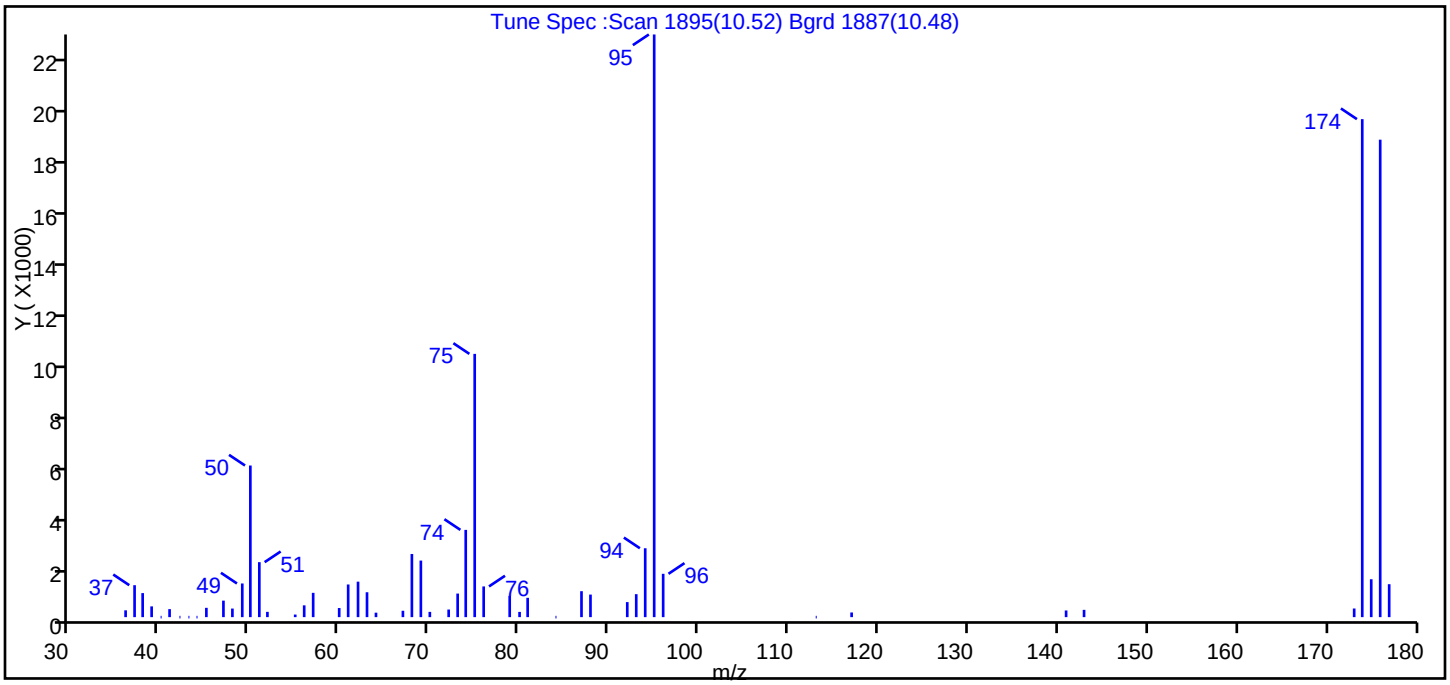
BFB STD WK_00128 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25B1205.d				
Injection Date:	05-Dec-2016 14:57:30	Instrument ID:	CMS25		
Lims ID:	BFB				
Client ID:					
Operator ID:	EA	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Tune Method:	BFB Method 8260				

$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.0
75	30 to 60% of m/z 95	45.2
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	1.5 (1.7)
174	50 to 120% of m/z 95	85.5
175	5 to 9% of m/z 174	6.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	81.9 (95.9)
177	5 to 9% of m/z 176	5.7 (6.9)

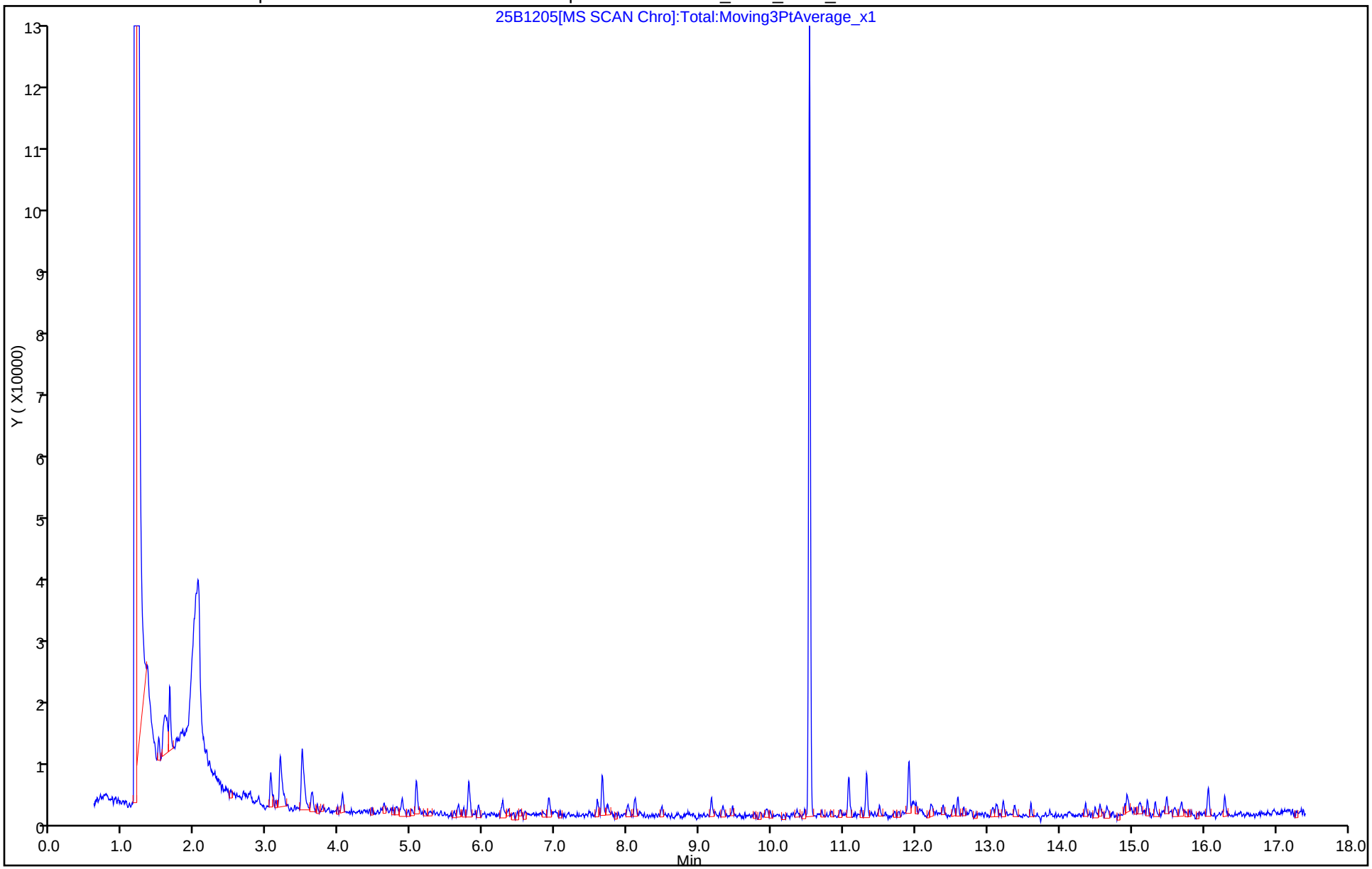
Data File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25B1205.d\8260W25cps.rslt\spectra.d
Injection Date: 05-Dec-2016 14:57:30
Spectrum: Tune Spec :Scan 1895(10.52) Bgrd 1887(10.48)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	263	51.00	2120	72.10	293	95.00	22464
37.10	1232	51.90	204	73.10	909	96.00	1671
38.00	927	55.00	100	74.00	3364	113.00	0
39.00	415	56.00	455	75.00	10150	117.00	180
40.00	0	57.00	937	76.00	1184	140.90	257
41.00	309	59.90	351	78.90	819	142.90	281
42.10	0	60.90	1259	80.00	202	173.00	333
43.10	0	62.00	1368	80.90	745	173.90	19200
44.00	0	63.00	960	84.00	0	174.90	1461
45.10	359	64.00	172	86.90	1001	175.90	18408
47.00	637	67.00	246	87.90	870	176.90	1270
48.00	331	68.00	2435	92.00	580		
49.10	1298	69.00	2181	93.00	886		
50.00	5846	70.00	203	94.00	2656		

Report Date: 05-Dec-2016 15:18:42 Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25B1205.d				
Injection Date:	05-Dec-2016 14:57:30	Instrument ID:	CMS25	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25B1026.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	26-Oct-2017 09:05:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0048625-001				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Last Update:	26-Oct-2017 13:24:50	Calib Date:	06-Dec-2016 01:45:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK025				
First Level Reviewer: ficarellop		Date:	26-Oct-2017 13:24:50		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 127 BFB	95	10.465	10.465	0.000	93	31573	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

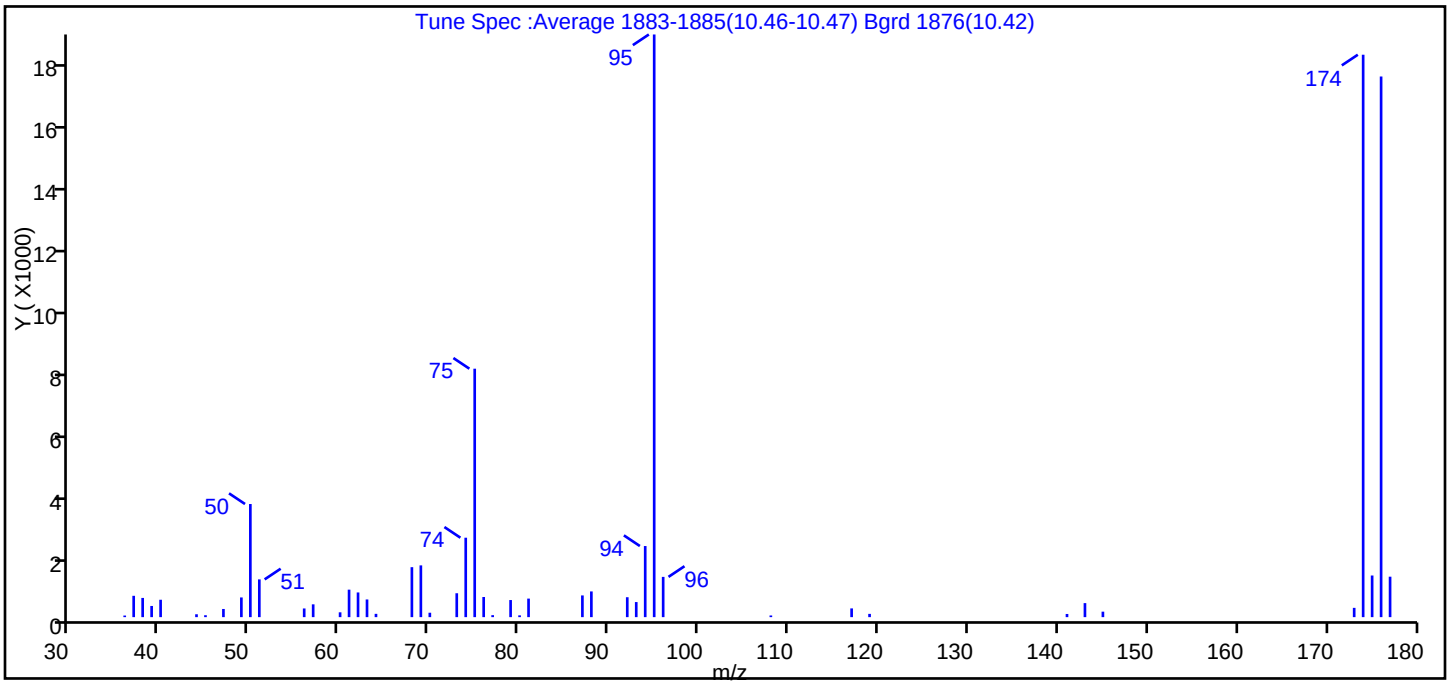
BFB STD WK_00166 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25B1026.d				
Injection Date:	26-Oct-2017 09:05:30	Instrument ID:	CMS25		
Lims ID:	BFB				
Client ID:					
Operator ID:	JH	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Tune Method:	BFB Method 8260				

$ 127 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	42.6
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	1.6 (1.7)
174	50 to 120% of m/z 95	96.5
175	5 to 9% of m/z 174	7.1 (7.4)
176	Greater than 95% but less than 101% of m/z 174	92.8 (96.1)
177	5 to 9% of m/z 176	6.9 (7.5)

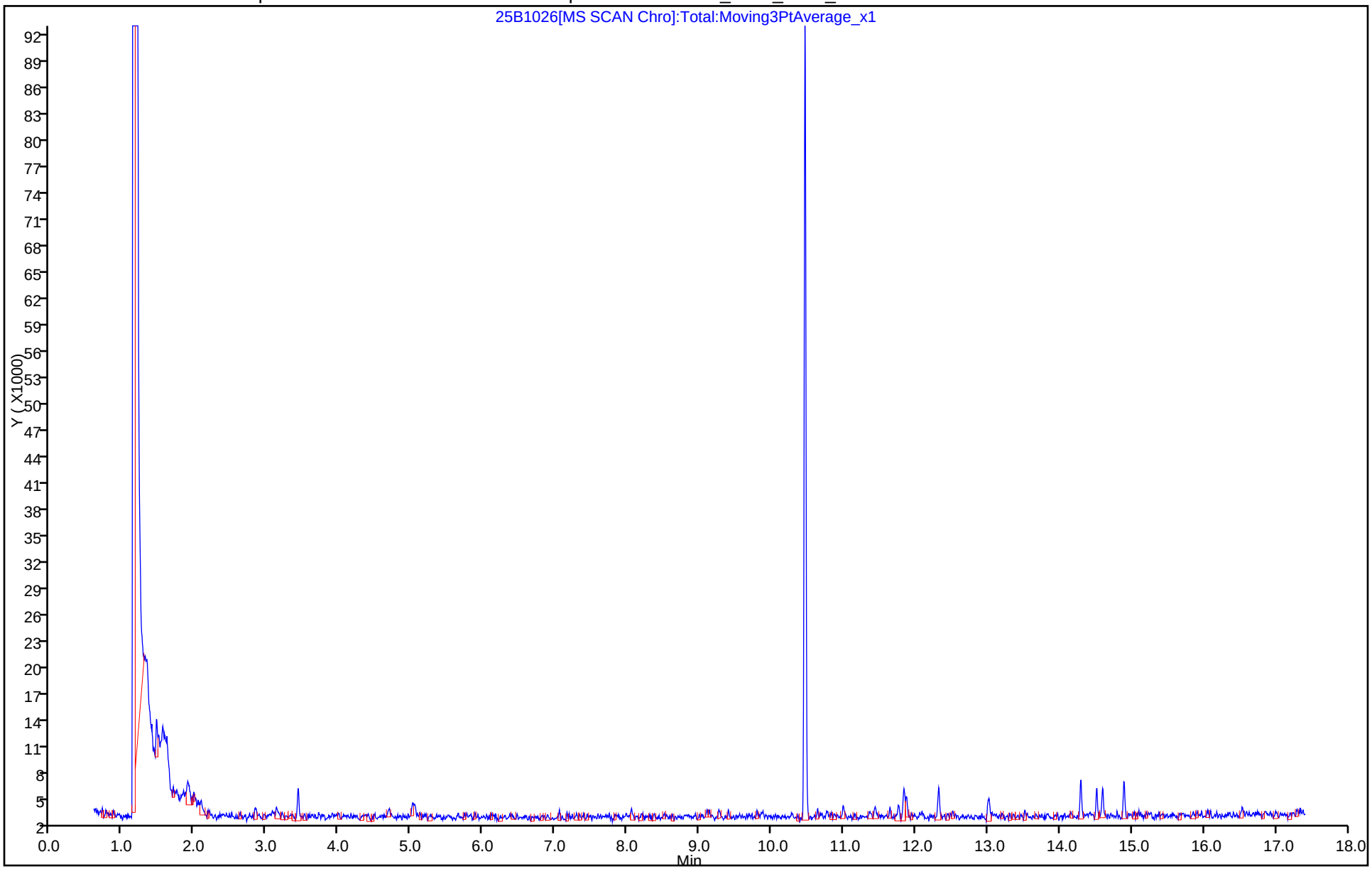
Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25B1026.d\8260W25cps.rslt\spectra.d
Injection Date: 26-Oct-2017 09:05:30
Spectrum: Tune Spec :Average 1883-1885(10.46-10.47) Bgrd 1876(10.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	50	57.00	400	76.00	629	108.00	52
37.00	666	60.00	151	77.00	62	117.00	273
38.00	600	61.00	858	79.00	534	119.00	102
39.00	349	62.00	771	80.00	56	141.00	99
40.00	543	63.00	552	81.00	579	143.00	438
44.00	90	64.00	103	87.00	678	145.00	171
45.00	60	68.00	1560	88.00	803	173.00	290
47.00	255	69.00	1616	92.00	622	174.00	17560
49.00	615	70.00	138	93.00	471	175.00	1300
50.00	3532	73.00	746	94.00	2220	176.00	16880
51.00	1179	74.00	2480	95.00	18192	177.00	1263
56.00	271	75.00	7757	96.00	1257		

Report Date: 26-Oct-2017 13:24:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25B1026.d				
Injection Date:	26-Oct-2017 09:05:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 500-407027/6
Matrix: Water | Lab File ID: 25M1026.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 11:47
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	ND		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 500-407027/6
Matrix: Water | Lab File ID: 25M1026.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 11:47
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND		0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	ND		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	ND		0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	ND		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-136029-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 500-407027/6
Matrix: Water
Lab File ID: 25M1026.d
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/26/2017 11:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 407027
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-124
1868-53-7	Dibromofluoromethane	107		75-120
2037-26-5	Toluene-d8 (Surr)	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25M1026.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Oct-2017 11:47:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048625-006
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:27:24 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:27:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.488	3.497	-0.009	0	66450	1000.0	1000.0	
$ 42 Dibromofluoromethane	113	5.207	5.206	0.001	59	183041	50.0	53.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.543	5.542	0.001	0	149465	50.0	48.7	
* 54 Fluorobenzene (IS)	96	5.878	5.877	0.001	99	650408	50.0	50.0	
* 61 1,4-Dioxane-d8	96	6.576	6.574	0.002	0	10351	1000.0	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.519	7.523	-0.004	93	616402	50.0	45.7	
* 81 Chlorobenzene-d5	117	9.108	9.107	0.001	81	509476	50.0	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	10.466	10.465	0.001	96	193283	50.0	44.3	
* 108 1,4-Dichlorobenzene-d4	152	11.845	11.844	0.001	93	240390	50.0	50.0	

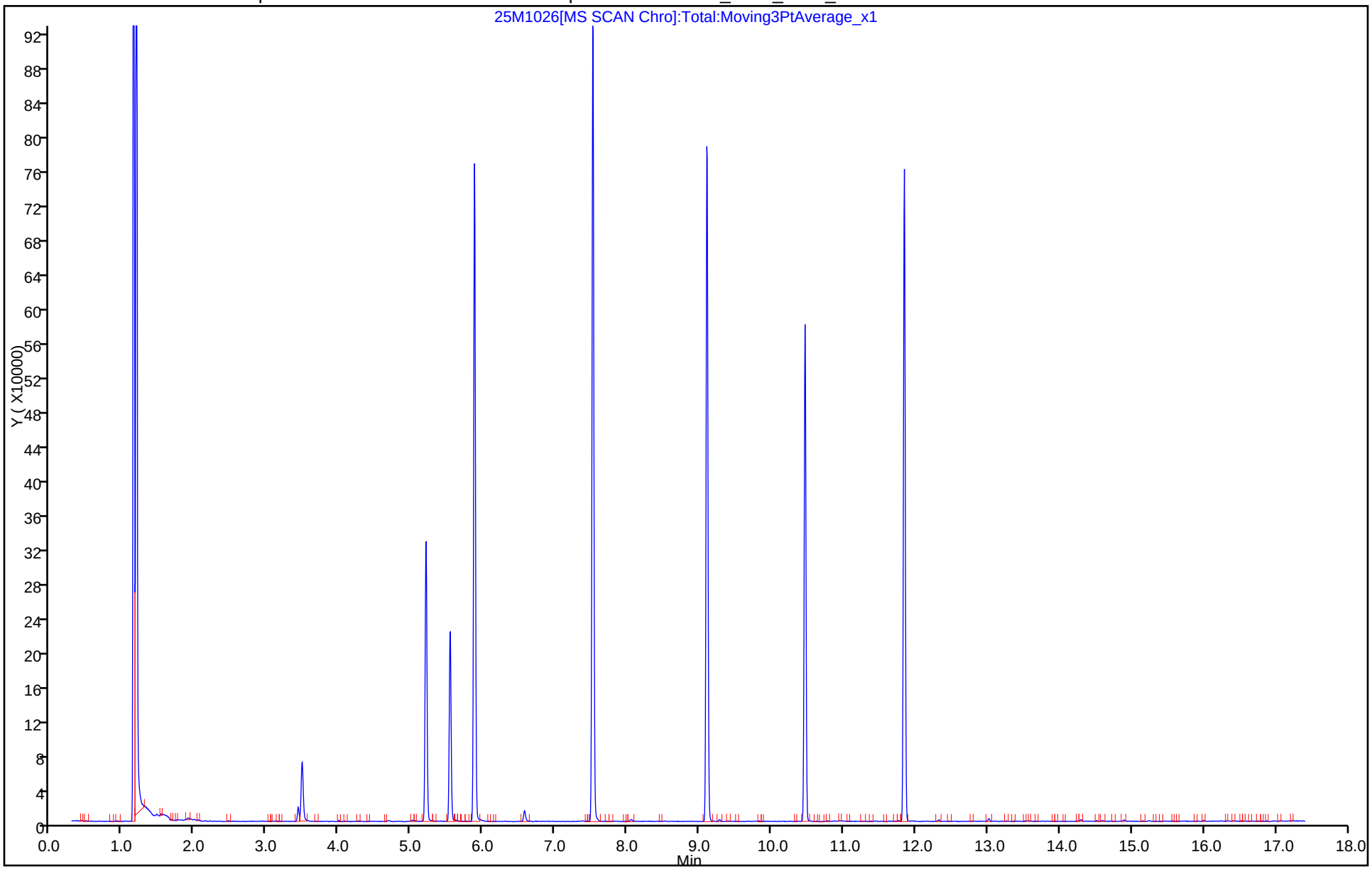
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 26-Oct-2017 13:27:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25M1026.d				
Injection Date:	26-Oct-2017 11:47:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25M1026.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Oct-2017 11:47:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048625-006
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:27:24 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:27:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	53.7	107.49
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	48.7	97.48
$ 70 Toluene-d8 (Surr)	50.0	45.7	91.49
$ 92 4-Bromofluorobenzene (Surr)	50.0	44.3	88.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 500-407027/7
Matrix: Water | Lab File ID: 25S1026A.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 12:17
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.0508		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	0.0474		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	0.0437		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0503		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	0.0462		0.0010	0.00035
75-34-3	1,1-Dichloroethane	0.0448		0.0010	0.00041
75-35-4	1,1-Dichloroethene	0.0476		0.0010	0.00039
563-58-6	1,1-Dichloropropene	0.0454		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	0.0426		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	0.0389		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	0.0400		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	0.0451		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	0.0382		0.0050	0.0020
106-93-4	1,2-Dibromoethane	0.0476		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	0.0466		0.0010	0.00033
107-06-2	1,2-Dichloroethane	0.0432		0.0010	0.00039
78-87-5	1,2-Dichloropropane	0.0470		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	0.0448		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	0.0473		0.0010	0.00040
142-28-9	1,3-Dichloropropane	0.0434		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	0.0474		0.0010	0.00036
123-91-1	1,4-Dioxane	0.979		0.10	0.041
594-20-7	2,2-Dichloropropane	0.0404		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	0.0352		0.0020	0.00077
95-49-8	2-Chlorotoluene	0.0449		0.0010	0.00031
591-78-6	2-Hexanone	0.0304		0.0050	0.0016
106-43-4	4-Chlorotoluene	0.0446		0.0010	0.00035
67-64-1	Acetone	0.0337		0.0050	0.0017
107-02-8	Acrolein	1.07		0.10	0.023
107-13-1	Acrylonitrile	0.406		0.020	0.0045
71-43-2	Benzene	0.0437		0.00050	0.00015
108-86-1	Bromobenzene	0.0467		0.0010	0.00036
74-97-5	Bromochloromethane	0.0513		0.0010	0.00043
75-27-4	Bromodichloromethane	0.0470		0.0010	0.00037
75-25-2	Bromoform	0.0516		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 500-407027/7
Matrix: Water | Lab File ID: 25S1026A.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 12:17
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	0.0722		0.0020	0.00080
75-15-0	Carbon disulfide	0.0437		0.0020	0.00045
56-23-5	Carbon tetrachloride	0.0510		0.0010	0.00038
108-90-7	Chlorobenzene	0.0476		0.0010	0.00039
75-00-3	Chloroethane	0.0465		0.0010	0.00051
67-66-3	Chloroform	0.0459		0.0020	0.00037
74-87-3	Chloromethane	0.0304		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	0.0455		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	0.0399		0.0010	0.00042
110-82-7	Cyclohexane	0.0440		0.0010	0.00049
124-48-1	Dibromochloromethane	0.0503		0.0010	0.00049
74-95-3	Dibromomethane	0.0474		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	0.0391		0.0020	0.00067
100-41-4	Ethylbenzene	0.0453		0.00050	0.00018
74-88-4	Iodomethane	0.0473		0.0025	0.00066
98-82-8	Isopropylbenzene	0.0460		0.0010	0.00039
79-20-9	Methyl acetate	0.0665		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	0.0347		0.0050	0.0021
108-10-1	methyl isobutyl ketone	0.0306		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	0.0341		0.0010	0.00039
108-87-2	Methylcyclohexane	0.0446		0.0010	0.00032
75-09-2	Methylene Chloride	0.0439		0.0050	0.0016
91-20-3	Naphthalene	0.0387		0.0010	0.00034
104-51-8	n-Butylbenzene	0.0442		0.0010	0.00039
103-65-1	N-Propylbenzene	0.0446		0.0010	0.00041
99-87-6	p-Isopropyltoluene	0.0461		0.0010	0.00036
135-98-8	sec-Butylbenzene	0.0454		0.0010	0.00040
100-42-5	Styrene	0.0462		0.0010	0.00039
75-65-0	tert-Butyl alcohol	0.423		0.050	0.012
98-06-6	tert-Butylbenzene	0.0460		0.0010	0.00040
127-18-4	Tetrachloroethene	0.0467		0.0010	0.00037
108-88-3	Toluene	0.0420		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	0.0472		0.0010	0.00035
10061-02-6	trans-1,3-Dichloropropene	0.0416		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	0.0345		0.0050	0.0012
79-01-6	Trichloroethene	0.0516		0.00050	0.00016

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407027/7

Matrix: Water | Lab File ID: 25S1026A.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 12:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	0.0523		0.0010	0.00043
108-05-4	Vinyl acetate	0.0303		0.0020	0.00091
75-01-4	Vinyl chloride	0.0500		0.00050	0.00020
1330-20-7	Xylenes, Total	0.0859		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-126
460-00-4	4-Bromofluorobenzene (Surr)	87		72-124
1868-53-7	Dibromofluoromethane	103		75-120
2037-26-5	Toluene-d8 (Surr)	93		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25S1026A.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Oct-2017 12:17:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048625-007
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:28:30 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:28:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.347	1.347	0.000	87	184857	50.0	39.1	
2 Chloromethane	50	1.525	1.525	0.000	88	175264	50.0	30.4	
3 Vinyl chloride	62	1.641	1.641	0.000	83	228482	50.0	50.0	
4 Butadiene	39	1.683	1.683	0.000	80	145003	50.0	32.8	
5 Bromomethane	94	1.981	1.971	0.010	91	107976	50.0	72.2	
6 Chloroethane	64	2.097	2.092	0.005	94	123543	50.0	46.5	
7 Dichlorofluoromethane	67	2.327	2.328	-0.001	83	295534	50.0	42.3	
8 Trichlorofluoromethane	101	2.375	2.370	0.005	78	351118	50.0	52.3	
10 Ethyl ether	59	2.694	2.700	-0.006	93	84703	50.0	39.0	
11 Acrolein	56	2.826	2.826	0.000	96	316453	2000.0	1074.7	
12 1,1-Dichloroethene	96	2.920	2.920	0.000	87	167674	50.0	47.6	
13 1,1,2-Trichloro-1,2,2-trif	101	2.936	2.936	0.000	81	197557	50.0	50.3	
14 Acetone	43	2.993	2.999	-0.006	97	15053	50.0	33.7	
15 Iodomethane	142	3.067	3.067	0.000	99	230795	50.0	47.3	
16 Carbon disulfide	76	3.130	3.125	0.005	99	516820	50.0	43.7	
19 3-Chloro-1-propene	76	3.303	3.303	0.000	89	81049	50.0	44.3	
20 Methyl acetate	43	3.339	3.339	0.000	98	75936	100.0	66.5	
21 Methylene Chloride	84	3.428	3.434	-0.006	96	139993	50.0	43.9	
* 22 TBA-d9 (IS)	65	3.486	3.497	-0.011	0	68622	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.570	3.581	-0.011	95	37811	500.0	423.1	
24 Acrylonitrile	53	3.691	3.691	0.000	100	270949	500.0	406.4	
25 trans-1,2-Dichloroethene	96	3.712	3.712	0.000	92	179243	50.0	47.2	
26 Methyl tert-butyl ether	73	3.717	3.717	0.000	71	181101	50.0	34.1	
27 Hexane	57	3.995	3.995	0.000	84	353065	50.0	44.0	
28 1,1-Dichloroethane	63	4.136	4.136	0.000	85	318677	50.0	44.8	
29 Vinyl acetate	43	4.204	4.205	-0.001	99	123431	50.0	30.3	
33 2,2-Dichloropropane	77	4.718	4.718	0.000	66	250672	50.0	40.4	
34 cis-1,2-Dichloroethene	96	4.724	4.724	0.000	86	177916	50.0	45.5	
35 2-Butanone (MEK)	43	4.750	4.750	0.000	94	23624	50.0	34.7	
39 Chlorobromomethane	128	4.959	4.960	-0.001	92	80276	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tetrahydrofuran	42	5.012	5.012	0.000	80	24773	100.0	54.5	
41 Chloroform	83	5.043	5.043	0.000	80	284410	50.0	45.9	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	64	184044	50.0	51.5	
43 1,1,1-Trichloroethane	97	5.222	5.222	0.000	90	299325	50.0	47.4	
44 Cyclohexane	56	5.274	5.274	0.000	88	394166	50.0	44.0	
45 Carbon tetrachloride	117	5.384	5.384	0.000	85	317882	50.0	51.0	
46 1,1-Dichloropropene	75	5.389	5.390	-0.001	91	234393	50.0	45.4	
47 Isobutyl alcohol	43	5.531	5.531	0.000	48	37215	1250.0	1104.1	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.541	5.542	-0.001	0	145274	50.0	45.2	
49 Benzene	78	5.594	5.594	0.000	97	594912	50.0	43.7	
50 1,2-Dichloroethane	62	5.615	5.615	0.000	88	175277	50.0	43.2	
53 n-Heptane	43	5.872	5.872	0.000	73	291217	50.0	35.3	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	95	682185	50.0	50.0	
56 Trichloroethene	130	6.249	6.249	0.000	86	228896	50.0	51.6	
58 Methylcyclohexane	83	6.443	6.443	0.000	87	303825	50.0	44.6	
59 1,2-Dichloropropane	63	6.480	6.480	0.000	95	163808	50.0	47.0	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	11511	1000.0	1000.0	
63 Dibromomethane	93	6.601	6.601	0.000	88	67884	50.0	47.4	
64 1,4-Dioxane	88	6.627	6.627	0.000	89	11074	1000.0	978.6	
65 Dichlorobromomethane	83	6.768	6.768	0.000	93	195800	50.0	47.0	
67 2-Chloroethyl vinyl ether	63	7.088	7.088	0.000	86	38591	50.0	35.2	
68 cis-1,3-Dichloropropene	75	7.240	7.235	0.005	90	184864	50.0	39.9	
69 4-Methyl-2-pentanone (MIBK	43	7.408	7.408	0.000	90	43730	50.0	30.6	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	92	629729	50.0	46.5	
71 Toluene	92	7.591	7.592	-0.001	92	389443	50.0	42.0	
72 trans-1,3-Dichloropropene	75	7.833	7.833	0.000	87	146748	50.0	41.6	
73 Ethyl methacrylate	69	7.938	7.938	0.000	93	77750	50.0	38.8	
74 1,1,2-Trichloroethane	97	8.032	8.032	0.000	87	86358	50.0	46.2	
75 Tetrachloroethene	166	8.184	8.184	0.000	88	233349	50.0	46.7	
76 1,3-Dichloropropane	76	8.215	8.216	-0.001	90	136193	50.0	43.4	
77 2-Hexanone	43	8.315	8.315	0.000	93	27976	50.0	30.4	
79 Chlorodibromomethane	129	8.462	8.462	0.000	87	143353	50.0	50.3	
80 Ethylene Dibromide	107	8.588	8.583	0.005	99	88253	50.0	47.6	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	81	512550	50.0	50.0	
83 Chlorobenzene	112	9.138	9.138	0.000	93	471290	50.0	47.6	
84 1,1,1,2-Tetrachloroethane	131	9.233	9.233	0.000	88	177465	50.0	50.8	
85 Ethylbenzene	106	9.269	9.264	0.005	99	257215	50.0	45.3	
86 m-Xylene & p-Xylene	91	9.400	9.400	0.000	0	598964	50.0	44.0	
87 o-Xylene	91	9.856	9.857	-0.001	93	565574	50.0	41.9	
88 Styrene	104	9.872	9.872	0.000	93	466864	50.0	46.2	
89 Bromoform	173	10.082	10.082	0.000	98	77569	50.0	51.6	
90 Isopropylbenzene	105	10.292	10.292	0.000	98	826878	50.0	46.0	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	94	206846	50.0	43.7	
93 Bromobenzene	156	10.638	10.638	0.000	86	191690	50.0	46.7	
94 1,1,2,2-Tetrachloroethane	83	10.648	10.648	0.000	72	76361	50.0	43.7	
95 1,2,3-Trichloropropane	75	10.695	10.695	0.000	82	76309	50.0	38.9	
96 trans-1,4-Dichloro-2-buten	53	10.716	10.716	0.000	85	26603	50.0	34.5	
97 N-Propylbenzene	91	10.779	10.779	0.000	97	925456	50.0	44.6	
98 2-Chlorotoluene	91	10.874	10.874	0.000	95	513049	50.0	44.9	
99 1,3,5-Trimethylbenzene	105	10.989	10.989	0.000	91	642871	50.0	44.8	
100 4-Chlorotoluene	91	10.999	11.000	-0.001	94	590035	50.0	44.6	
102 4-Isopropyltoluene	119	11.377	11.377	0.000	88	632556	50.0	46.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,2,4-Trimethylbenzene	105	11.435	11.435	0.000	95	633475	50.0	45.1	
105 sec-Butylbenzene	105	11.644	11.644	0.000	93	903289	50.0	45.4	
106 1,3-Dichlorobenzene	146	11.765	11.765	0.000	97	382453	50.0	47.3	
107 tert-Butylbenzene	119	11.823	11.823	0.000	77	793530	50.0	46.0	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	261138	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.875	11.875	0.000	97	371805	50.0	47.4	
112 n-Butylbenzene	91	12.321	12.321	0.000	96	670627	50.0	44.2	
113 1,2-Dichlorobenzene	146	12.321	12.321	0.000	66	313746	50.0	46.6	
114 1,2-Dibromo-3-Chloropropan	75	13.275	13.275	0.000	43	11409	50.0	38.2	
116 1,2,4-Trichlorobenzene	180	14.297	14.297	0.000	94	201982	50.0	40.0	
117 Hexachlorobutadiene	225	14.518	14.518	0.000	84	169470	50.0	45.9	
118 Naphthalene	128	14.596	14.596	0.000	99	254663	50.0	38.7	
119 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	95	170529	50.0	42.6	
S 122 1,2-Dichloroethene, Total	1				0		100.0	92.6	
S 123 Xylenes, Total	1				0		100.0	85.9	

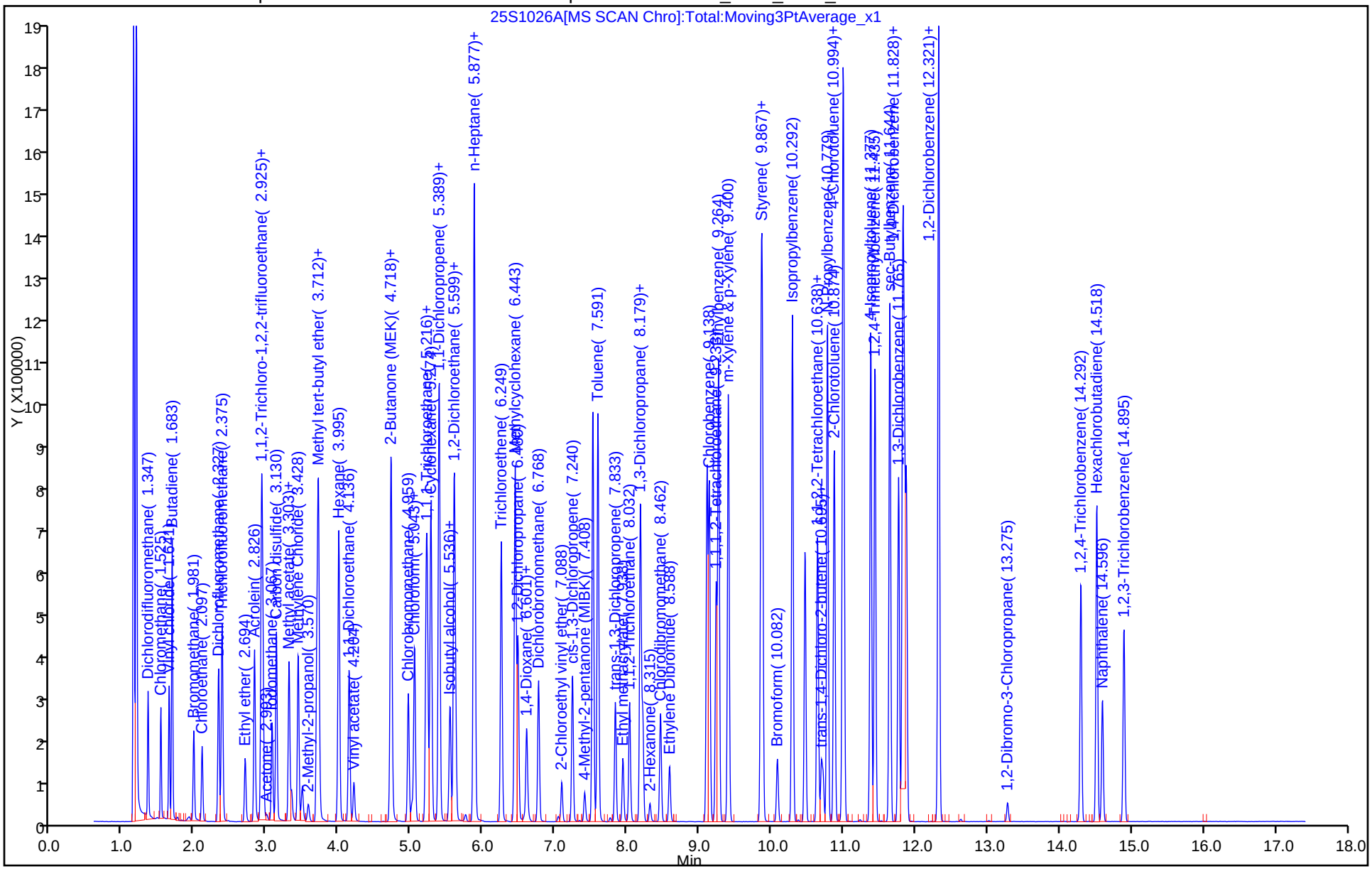
Reagents:

8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 13:28:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25S1026A.d				
Injection Date:	26-Oct-2017 12:17:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	LCS			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\25S1026A.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Oct-2017 12:17:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048625-007
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 26-Oct-2017 13:28:30 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ficarellop Date: 26-Oct-2017 13:28:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	51.5	103.04
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	45.2	90.33
$ 70 Toluene-d8 (Surr)	50.0	46.5	92.91
$ 92 4-Bromofluorobenzene (Surr)	50.0	43.7	87.37

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MS | Lab Sample ID: 500-136029-1 MS

Matrix: Water | Lab File ID: 136029-1MS.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.0563		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	0.0512		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	0.0492		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0543		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	0.0507		0.0010	0.00035
75-34-3	1,1-Dichloroethane	0.0486		0.0010	0.00041
75-35-4	1,1-Dichloroethene	0.0497		0.0010	0.00039
563-58-6	1,1-Dichloropropene	0.0480		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	0.0470		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	0.0439		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	0.0425		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	0.0497		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	0.0444		0.0050	0.0020
106-93-4	1,2-Dibromoethane	0.0522		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	0.0524		0.0010	0.00033
107-06-2	1,2-Dichloroethane	0.0478		0.0010	0.00039
78-87-5	1,2-Dichloropropane	0.0508		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	0.0488		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	0.0519		0.0010	0.00040
142-28-9	1,3-Dichloropropane	0.0476		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	0.0520		0.0010	0.00036
123-91-1	1,4-Dioxane	0.998		0.10	0.041
594-20-7	2,2-Dichloropropane	0.0432		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	0.0493		0.0010	0.00031
591-78-6	2-Hexanone	0.0295		0.0050	0.0016
106-43-4	4-Chlorotoluene	0.0491		0.0010	0.00035
67-64-1	Acetone	0.0309		0.0050	0.0017
107-02-8	Acrolein	1.17		0.10	0.023
107-13-1	Acrylonitrile	0.440		0.020	0.0045
71-43-2	Benzene	0.0479		0.00050	0.00015
108-86-1	Bromobenzene	0.0527		0.0010	0.00036
74-97-5	Bromochloromethane	0.0561		0.0010	0.00043
75-27-4	Bromodichloromethane	0.0543		0.0010	0.00037
75-25-2	Bromoform	0.0567		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MS | Lab Sample ID: 500-136029-1 MS

Matrix: Water | Lab File ID: 136029-1MS.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	0.0685		0.0020	0.00080
75-15-0	Carbon disulfide	0.0462		0.0020	0.00045
56-23-5	Carbon tetrachloride	0.0555		0.0010	0.00038
108-90-7	Chlorobenzene	0.0514		0.0010	0.00039
75-00-3	Chloroethane	0.0432		0.0010	0.00051
67-66-3	Chloroform	0.0527		0.0020	0.00037
74-87-3	Chloromethane	0.0312		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	0.0509		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	0.0425		0.0010	0.00042
110-82-7	Cyclohexane	0.0463		0.0010	0.00049
124-48-1	Dibromochloromethane	0.0576		0.0010	0.00049
74-95-3	Dibromomethane	0.0530		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	0.0351		0.0020	0.00067
100-41-4	Ethylbenzene	0.0485		0.00050	0.00018
74-88-4	Iodomethane	0.0462		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	0.0511		0.0010	0.00039
79-20-9	Methyl acetate	0.0698		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	0.0290		0.0050	0.0021
108-10-1	methyl isobutyl ketone	0.0283		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	0.0378		0.0010	0.00039
108-87-2	Methylcyclohexane	0.0474		0.0010	0.00032
75-09-2	Methylene Chloride	0.0482		0.0050	0.0016
91-20-3	Naphthalene	0.0439		0.0010	0.00034
104-51-8	n-Butylbenzene	0.0468		0.0010	0.00039
103-65-1	N-Propylbenzene	0.0489		0.0010	0.00041
99-87-6	p-Isopropyltoluene	0.0518		0.0010	0.00036
135-98-8	sec-Butylbenzene	0.0504		0.0010	0.00040
100-42-5	Styrene	0.0495		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	0.549		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	0.0506		0.0010	0.00040
127-18-4	Tetrachloroethene	0.0505		0.0010	0.00037
108-88-3	Toluene	0.0460		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	0.0499		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MS | Lab Sample ID: 500-136029-1 MS

Matrix: Water | Lab File ID: 136029-1MS.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	0.0449		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	0.0389		0.0050	0.0012
79-01-6	Trichloroethene	0.0554		0.00050	0.00016
75-69-4	Trichlorofluoromethane	0.0483		0.0010	0.00043
108-05-4	Vinyl acetate	0.0308		0.0020	0.00091
75-01-4	Vinyl chloride	0.0454		0.00050	0.00020
1330-20-7	Xylenes, Total	0.0933		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-124
1868-53-7	Dibromofluoromethane	106		75-120
2037-26-5	Toluene-d8 (Surr)	92		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MS.d
Lims ID: 500-136029-G-1 MS
Client ID: OMW2D-GW-101917
Sample Type: MS
Inject. Date: 26-Oct-2017 19:15:30 ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136029-g-1 ms
Misc. Info.: 500-0048625-024
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 27-Oct-2017 07:49:12 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:49:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.347	1.347	0.000	88	156211	50.0	35.1	
2 Chloromethane	50	1.525	1.525	0.000	88	169817	50.0	31.2	
3 Vinyl chloride	62	1.641	1.641	0.000	83	195887	50.0	45.4	
5 Bromomethane	94	1.981	1.971	0.010	92	96559	50.0	68.5	
6 Chloroethane	64	2.097	2.092	0.005	94	108065	50.0	43.2	
8 Trichlorofluoromethane	101	2.375	2.370	0.005	78	305524	50.0	48.3	
11 Acrolein	56	2.826	2.826	0.000	96	323396	2000.0	1165.3	
12 1,1-Dichloroethene	96	2.920	2.920	0.000	87	164867	50.0	49.7	
13 1,1,2-Trichloro-1,2,2-trif	101	2.936	2.936	0.000	83	200949	50.0	54.3	
14 Acetone	43	2.993	2.999	-0.006	76	13116	50.0	30.9	
15 Iodomethane	142	3.067	3.067	0.000	99	212443	50.0	46.2	
16 Carbon disulfide	76	3.130	3.125	0.005	99	514984	50.0	46.2	
20 Methyl acetate	43	3.339	3.339	0.000	97	75122	100.0	69.8	
21 Methylene Chloride	84	3.434	3.434	0.000	95	144717	50.0	48.2	
* 22 TBA-d9 (IS)	65	3.486	3.497	-0.011	0	60616	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.570	3.581	-0.011	97	43372	500.0	549.5	
24 Acrylonitrile	53	3.691	3.691	0.000	98	276760	500.0	440.4	
25 trans-1,2-Dichloroethene	96	3.712	3.712	0.000	93	178711	50.0	49.9	
26 Methyl tert-butyl ether	73	3.717	3.717	0.000	71	189037	50.0	37.8	
28 1,1-Dichloroethane	63	4.136	4.136	0.000	85	325297	50.0	48.6	
29 Vinyl acetate	43	4.205	4.205	-0.001	98	118332	50.0	30.8	
33 2,2-Dichloropropane	77	4.718	4.718	0.000	65	252833	50.0	43.2	
34 cis-1,2-Dichloroethene	96	4.724	4.724	0.000	87	187872	50.0	50.9	
35 2-Butanone (MEK)	43	4.750	4.750	0.000	87	18568	50.0	29.0	
39 Chlorobromomethane	128	4.960	4.960	0.000	91	82847	50.0	56.1	
41 Chloroform	83	5.049	5.043	0.006	81	307803	50.0	52.7	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	61	178419	50.0	53.0	
43 1,1,1-Trichloroethane	97	5.222	5.222	0.000	91	304710	50.0	51.2	
44 Cyclohexane	56	5.274	5.274	0.000	88	391057	50.0	46.3	
45 Carbon tetrachloride	117	5.389	5.384	0.005	82	326191	50.0	55.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 1,1-Dichloropropene	75	5.389	5.390	-0.001	89	233848	50.0	48.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.541	5.542	-0.001	0	144331	50.0	47.6	
49 Benzene	78	5.594	5.594	0.000	97	615411	50.0	47.9	
50 1,2-Dichloroethane	62	5.615	5.615	0.000	87	182777	50.0	47.8	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	95	642974	50.0	50.0	
56 Trichloroethene	130	6.249	6.249	0.000	85	231803	50.0	55.4	
58 Methylcyclohexane	83	6.443	6.443	0.000	89	304316	50.0	47.4	
59 1,2-Dichloropropane	63	6.480	6.480	0.000	95	166985	50.0	50.8	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	10933	1000.0	1000.0	
63 Dibromomethane	93	6.601	6.601	0.000	86	71461	50.0	53.0	
64 1,4-Dioxane	88	6.627	6.627	0.000	92	10731	1000.0	998.4	
65 Dichlorobromomethane	83	6.768	6.768	0.000	93	213186	50.0	54.3	
68 cis-1,3-Dichloropropene	75	7.240	7.235	0.005	93	186152	50.0	42.5	
69 4-Methyl-2-pentanone (MIBK	43	7.408	7.408	0.000	86	38103	50.0	28.3	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	92	590892	50.0	46.1	
71 Toluene	92	7.592	7.592	0.000	93	402390	50.0	46.0	
72 trans-1,3-Dichloropropene	75	7.833	7.833	0.000	86	149765	50.0	44.9	
74 1,1,2-Trichloroethane	97	8.032	8.032	0.000	86	89684	50.0	50.7	
75 Tetrachloroethene	166	8.184	8.184	0.000	88	238447	50.0	50.5	
76 1,3-Dichloropropane	76	8.215	8.216	-0.001	90	141175	50.0	47.6	
77 2-Hexanone	43	8.315	8.315	0.000	85	25668	50.0	29.5	
79 Chlorodibromomethane	129	8.462	8.462	0.000	89	155297	50.0	57.6	
80 Ethylene Dibromide	107	8.588	8.583	0.005	100	91626	50.0	52.2	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	81	484413	50.0	50.0	
83 Chlorobenzene	112	9.138	9.138	0.000	93	480243	50.0	51.4	
84 1,1,1,2-Tetrachloroethane	131	9.233	9.233	0.000	90	185785	50.0	56.3	
85 Ethylbenzene	106	9.269	9.264	0.005	99	260310	50.0	48.5	
86 m-Xylene & p-Xylene	91	9.400	9.400	0.000	0	607690	50.0	47.3	
87 o-Xylene	91	9.857	9.857	-0.001	94	586746	50.0	46.0	
88 Styrene	104	9.872	9.872	0.000	94	472941	50.0	49.5	
89 Bromoform	173	10.082	10.082	0.000	96	80614	50.0	56.7	
90 Isopropylbenzene	105	10.292	10.292	0.000	97	849761	50.0	51.1	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	95	199631	50.0	45.6	
93 Bromobenzene	156	10.638	10.638	0.000	84	199808	50.0	52.7	
94 1,1,2,2-Tetrachloroethane	83	10.648	10.648	0.000	71	79449	50.0	49.2	
95 1,2,3-Trichloropropane	75	10.695	10.695	0.000	84	79623	50.0	43.9	
96 trans-1,4-Dichloro-2-buten	53	10.716	10.716	0.000	86	27744	50.0	38.9	
97 N-Propylbenzene	91	10.779	10.779	0.000	97	937570	50.0	48.9	
98 2-Chlorotoluene	91	10.874	10.874	0.000	95	520699	50.0	49.3	
99 1,3,5-Trimethylbenzene	105	10.989	10.989	0.000	91	646919	50.0	48.8	
100 4-Chlorotoluene	91	10.999	11.000	-0.001	94	601227	50.0	49.1	
102 4-Isopropyltoluene	119	11.377	11.377	0.000	91	656610	50.0	51.8	
104 1,2,4-Trimethylbenzene	105	11.435	11.435	0.000	94	644624	50.0	49.7	
105 sec-Butylbenzene	105	11.644	11.644	0.000	93	927091	50.0	50.4	
106 1,3-Dichlorobenzene	146	11.765	11.765	0.000	98	388431	50.0	51.9	
107 tert-Butylbenzene	119	11.823	11.823	0.000	78	806483	50.0	50.6	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	94	241311	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.875	11.875	0.000	97	376257	50.0	52.0	
112 n-Butylbenzene	91	12.321	12.321	0.000	96	655048	50.0	46.8	
113 1,2-Dichlorobenzene	146	12.321	12.321	0.000	69	325872	50.0	52.4	
114 1,2-Dibromo-3-Chloropropan	75	13.275	13.275	0.000	45	12281	50.0	44.4	
116 1,2,4-Trichlorobenzene	180	14.297	14.297	0.000	93	198214	50.0	42.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 Naphthalene	128	14.596	14.596	0.000	99	266931	50.0	43.9	
119 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	94	174110	50.0	47.0	
S 123 Xylenes, Total	1				0		100.0	93.3	

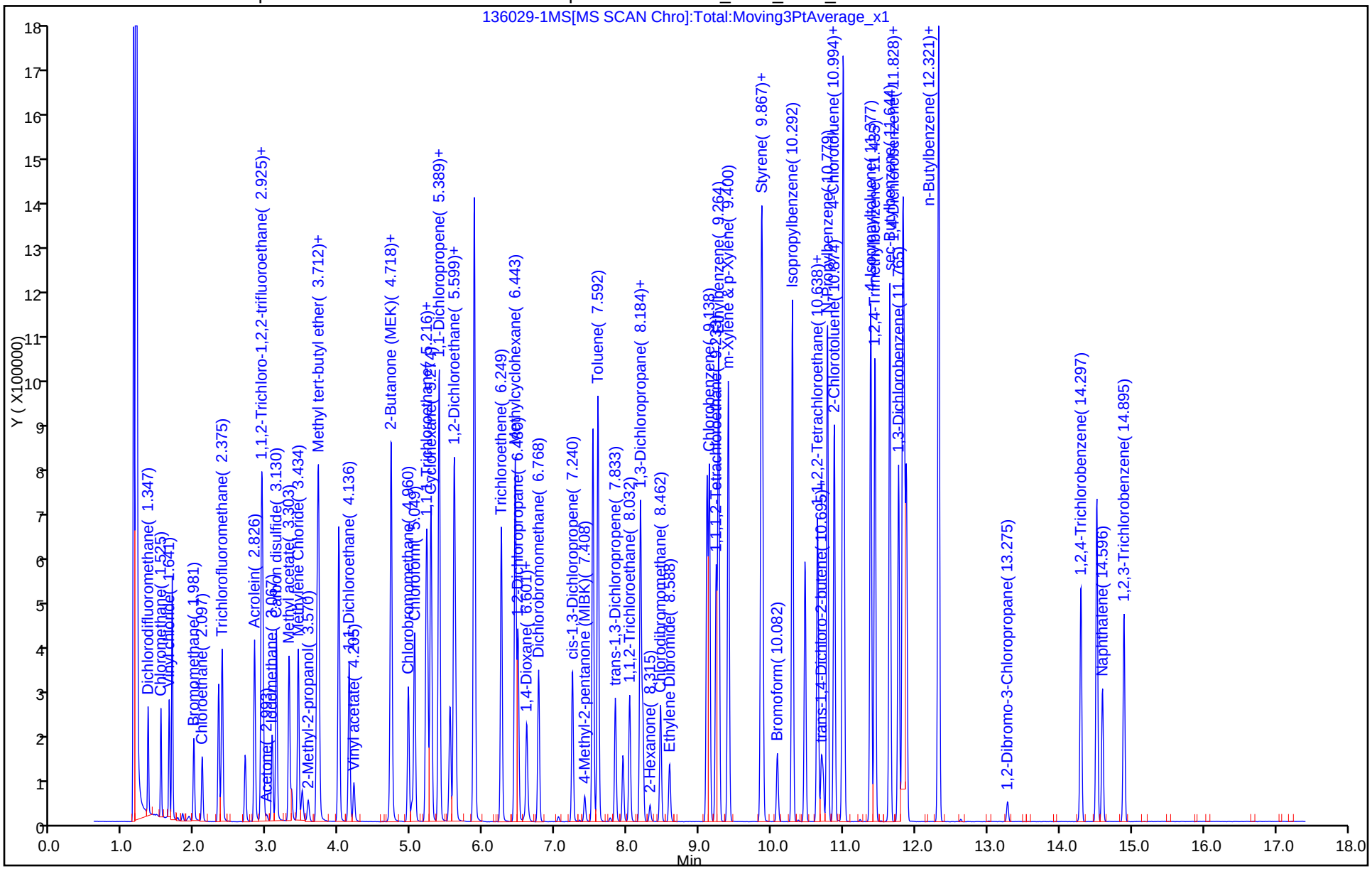
Reagents:

8260/624GASWK_00475	Amount Added: 2.50	Units: uL	
8260/624KETWK_00282	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00358	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added: 2.50	Units: uL	
8260/624MEGWK_00416	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 07:49:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MS.d				
Injection Date:	26-Oct-2017 19:15:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	500-136029-G-1 MS			Worklist Smp#:	24
Client ID:	OMW2D-GW-101917				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MS.d				
Lims ID:	500-136029-G-1 MS				
Client ID:	OMW2D-GW-101917				
Sample Type:	MS				
Inject. Date:	26-Oct-2017 19:15:30	ALS Bottle#:	21	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-g-1 ms				
Misc. Info.:	500-0048625-024				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Last Update:	27-Oct-2017 07:49:12	Calib Date:	06-Dec-2016 01:45:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK019				

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:49:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	53.0	105.98
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	47.6	95.22
$ 70 Toluene-d8 (Surr)	50.0	46.1	92.24
$ 92 4-Bromofluorobenzene (Surr)	50.0	45.6	91.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MSD | Lab Sample ID: 500-136029-1 MSD

Matrix: Water | Lab File ID: 136029-1MSD.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.0533		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	0.0504		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	0.0484		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0526		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	0.0479		0.0010	0.00035
75-34-3	1,1-Dichloroethane	0.0471		0.0010	0.00041
75-35-4	1,1-Dichloroethene	0.0476		0.0010	0.00039
563-58-6	1,1-Dichloropropene	0.0476		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	0.0463		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	0.0418		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	0.0429		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	0.0487		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	0.0443		0.0050	0.0020
106-93-4	1,2-Dibromoethane	0.0509		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	0.0506		0.0010	0.00033
107-06-2	1,2-Dichloroethane	0.0459		0.0010	0.00039
78-87-5	1,2-Dichloropropane	0.0484		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	0.0477		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	0.0511		0.0010	0.00040
142-28-9	1,3-Dichloropropane	0.0474		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	0.0509		0.0010	0.00036
123-91-1	1,4-Dioxane	1.04		0.10	0.041
594-20-7	2,2-Dichloropropane	0.0425		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	0.0483		0.0010	0.00031
591-78-6	2-Hexanone	0.0320		0.0050	0.0016
106-43-4	4-Chlorotoluene	0.0473		0.0010	0.00035
67-64-1	Acetone	0.0322		0.0050	0.0017
107-02-8	Acrolein	1.20		0.10	0.023
107-13-1	Acrylonitrile	0.423		0.020	0.0045
71-43-2	Benzene	0.0462		0.00050	0.00015
108-86-1	Bromobenzene	0.0508		0.0010	0.00036
74-97-5	Bromochloromethane	0.0539		0.0010	0.00043
75-27-4	Bromodichloromethane	0.0510		0.0010	0.00037
75-25-2	Bromoform	0.0540		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MSD | Lab Sample ID: 500-136029-1 MSD

Matrix: Water | Lab File ID: 136029-1MSD.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	0.0706		0.0020	0.00080
75-15-0	Carbon disulfide	0.0455		0.0020	0.00045
56-23-5	Carbon tetrachloride	0.0543		0.0010	0.00038
108-90-7	Chlorobenzene	0.0496		0.0010	0.00039
75-00-3	Chloroethane	0.0450		0.0010	0.00051
67-66-3	Chloroform	0.0515		0.0020	0.00037
74-87-3	Chloromethane	0.0336		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	0.0502		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	0.0415		0.0010	0.00042
110-82-7	Cyclohexane	0.0455		0.0010	0.00049
124-48-1	Dibromochloromethane	0.0544		0.0010	0.00049
74-95-3	Dibromomethane	0.0522		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	0.0368		0.0020	0.00067
100-41-4	Ethylbenzene	0.0474		0.00050	0.00018
74-88-4	Iodomethane	0.0483		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	0.0495		0.0010	0.00039
79-20-9	Methyl acetate	0.0685		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	0.0387		0.0050	0.0021
108-10-1	methyl isobutyl ketone	0.0331		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	0.0359		0.0010	0.00039
108-87-2	Methylcyclohexane	0.0459		0.0010	0.00032
75-09-2	Methylene Chloride	0.0471		0.0050	0.0016
91-20-3	Naphthalene	0.0437		0.0010	0.00034
104-51-8	n-Butylbenzene	0.0462		0.0010	0.00039
103-65-1	N-Propylbenzene	0.0478		0.0010	0.00041
99-87-6	p-Isopropyltoluene	0.0509		0.0010	0.00036
135-98-8	sec-Butylbenzene	0.0489		0.0010	0.00040
100-42-5	Styrene	0.0484		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	0.526		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	0.0494		0.0010	0.00040
127-18-4	Tetrachloroethene	0.0484		0.0010	0.00037
108-88-3	Toluene	0.0448		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	0.0490		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MSD | Lab Sample ID: 500-136029-1 MSD

Matrix: Water | Lab File ID: 136029-1MSD.d

Analysis Method: 8260B | Date Collected: 10/19/2017 16:04

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 19:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407027 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	0.0437		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	0.0361		0.0050	0.0012
79-01-6	Trichloroethene	0.0537		0.00050	0.00016
75-69-4	Trichlorofluoromethane	0.0497		0.0010	0.00043
108-05-4	Vinyl acetate	0.0325		0.0020	0.00091
75-01-4	Vinyl chloride	0.0476		0.00050	0.00020
1330-20-7	Xylenes, Total	0.0906		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-126
460-00-4	4-Bromofluorobenzene (Surr)	91		72-124
1868-53-7	Dibromofluoromethane	105		75-120
2037-26-5	Toluene-d8 (Surr)	93		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MSD.d
Lims ID: 500-136029-G-1 MSD
Client ID: OMW2D-GW-101917
Sample Type: MSD
Inject. Date: 26-Oct-2017 19:45:30 ALS Bottle#: 22 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136029-g-1 msd
Misc. Info.: 500-0048625-025
Operator ID: JH Instrument ID: CMS25
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Last Update: 27-Oct-2017 07:49:12 Calib Date: 06-Dec-2016 01:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d

Column 1 : Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:50:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.347	1.347	0.000	87	160537	50.0	36.8	
2 Chloromethane	50	1.525	1.525	0.000	89	179264	50.0	33.6	
3 Vinyl chloride	62	1.641	1.641	0.000	83	201395	50.0	47.6	
5 Bromomethane	94	1.981	1.971	0.010	90	97708	50.0	70.6	
6 Chloroethane	64	2.097	2.092	0.005	94	110665	50.0	45.0	
8 Trichlorofluoromethane	101	2.375	2.370	0.005	78	308562	50.0	49.7	
11 Acrolein	56	2.826	2.826	0.000	96	327155	2000.0	1200.5	
12 1,1-Dichloroethene	96	2.920	2.920	0.000	86	155166	50.0	47.6	
13 1,1,2-Trichloro-1,2,2-trif	101	2.936	2.936	0.000	81	191050	50.0	52.6	
14 Acetone	43	2.993	2.999	-0.006	87	13387	50.0	32.2	
15 Iodomethane	142	3.072	3.067	0.005	98	218280	50.0	48.3	
16 Carbon disulfide	76	3.130	3.125	0.005	99	497480	50.0	45.5	
20 Methyl acetate	43	3.339	3.339	0.000	98	72306	100.0	68.5	
21 Methylene Chloride	84	3.434	3.434	0.000	94	139001	50.0	47.1	
* 22 TBA-d9 (IS)	65	3.486	3.497	-0.011	0	60202	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.570	3.581	-0.011	96	41232	500.0	526.0	
24 Acrylonitrile	53	3.691	3.691	0.000	96	261278	500.0	423.4	
25 trans-1,2-Dichloroethene	96	3.712	3.712	0.000	92	172138	50.0	49.0	
26 Methyl tert-butyl ether	73	3.717	3.717	0.000	69	176424	50.0	35.9	
28 1,1-Dichloroethane	63	4.136	4.136	0.000	85	309939	50.0	47.1	
29 Vinyl acetate	43	4.205	4.205	0.000	99	122745	50.0	32.5	
33 2,2-Dichloropropane	77	4.718	4.718	0.000	64	244103	50.0	42.5	
34 cis-1,2-Dichloroethene	96	4.724	4.724	0.000	86	181962	50.0	50.2	
35 2-Butanone (MEK)	43	4.745	4.750	-0.005	58	24357	50.0	38.7	
39 Chlorobromomethane	128	4.960	4.960	0.000	91	78171	50.0	53.9	
41 Chloroform	83	5.049	5.043	0.006	80	295114	50.0	51.5	
$ 42 Dibromofluoromethane	113	5.206	5.206	0.000	72	172997	50.0	52.3	
43 1,1,1-Trichloroethane	97	5.222	5.222	0.000	91	294290	50.0	50.4	
44 Cyclohexane	56	5.274	5.274	0.000	88	377772	50.0	45.5	
45 Carbon tetrachloride	117	5.389	5.384	0.005	82	312882	50.0	54.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 1,1-Dichloropropene	75	5.389	5.390	-0.001	91	227523	50.0	47.6	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.542	5.542	0.000	0	140253	50.0	47.1	
49 Benzene	78	5.599	5.594	0.005	97	582641	50.0	46.2	
50 1,2-Dichloroethane	62	5.615	5.615	0.000	89	172340	50.0	45.9	
* 54 Fluorobenzene (IS)	96	5.877	5.877	0.000	95	631368	50.0	50.0	
56 Trichloroethene	130	6.249	6.249	0.000	86	220371	50.0	53.7	
58 Methylcyclohexane	83	6.443	6.443	0.000	88	289400	50.0	45.9	
59 1,2-Dichloropropane	63	6.480	6.480	0.000	96	156111	50.0	48.4	
* 61 1,4-Dioxane-d8	96	6.574	6.574	0.000	0	10854	1000.0	1000.0	
63 Dibromomethane	93	6.601	6.601	0.000	88	69139	50.0	52.2	
64 1,4-Dioxane	88	6.627	6.627	0.000	83	11140	1000.0	1044.0	
65 Dichlorobromomethane	83	6.768	6.768	0.000	92	196463	50.0	51.0	
68 cis-1,3-Dichloropropene	75	7.240	7.235	0.005	91	178342	50.0	41.5	
69 4-Methyl-2-pentanone (MIBK	43	7.408	7.408	0.000	89	43815	50.0	33.1	
$ 70 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	584456	50.0	46.5	
71 Toluene	92	7.592	7.592	0.000	93	385441	50.0	44.8	
72 trans-1,3-Dichloropropene	75	7.833	7.833	0.000	87	142871	50.0	43.7	
74 1,1,2-Trichloroethane	97	8.032	8.032	0.000	87	83143	50.0	47.9	
75 Tetrachloroethene	166	8.184	8.184	0.000	89	224412	50.0	48.4	
76 1,3-Dichloropropane	76	8.215	8.216	-0.001	89	138065	50.0	47.4	
77 2-Hexanone	43	8.315	8.315	0.000	89	27359	50.0	32.0	
79 Chlorodibromomethane	129	8.462	8.462	0.000	88	143792	50.0	54.4	
80 Ethylene Dibromide	107	8.588	8.583	0.005	96	87555	50.0	50.9	
* 81 Chlorobenzene-d5	117	9.107	9.107	0.000	83	475549	50.0	50.0	
83 Chlorobenzene	112	9.138	9.138	0.000	94	455467	50.0	49.6	
84 1,1,1,2-Tetrachloroethane	131	9.233	9.233	0.000	91	172884	50.0	53.3	
85 Ethylbenzene	106	9.269	9.264	0.005	99	249958	50.0	47.4	
86 m-Xylene & p-Xylene	91	9.400	9.400	0.000	0	577752	50.0	45.8	
87 o-Xylene	91	9.857	9.857	0.000	94	561419	50.0	44.8	
88 Styrene	104	9.872	9.872	0.000	93	453958	50.0	48.4	
89 Bromoform	173	10.082	10.082	0.000	98	75314	50.0	54.0	
90 Isopropylbenzene	105	10.292	10.292	0.000	98	802033	50.0	49.5	
$ 92 4-Bromofluorobenzene (Surr	95	10.465	10.465	0.000	94	194355	50.0	45.6	
93 Bromobenzene	156	10.638	10.638	0.000	86	187711	50.0	50.8	
94 1,1,2,2-Tetrachloroethane	83	10.648	10.648	0.000	72	76145	50.0	48.4	
95 1,2,3-Trichloropropane	75	10.695	10.695	0.000	83	73934	50.0	41.8	
96 trans-1,4-Dichloro-2-buten	53	10.716	10.716	0.000	85	25089	50.0	36.1	
97 N-Propylbenzene	91	10.779	10.779	0.000	98	893102	50.0	47.8	
98 2-Chlorotoluene	91	10.874	10.874	0.000	96	496919	50.0	48.3	
99 1,3,5-Trimethylbenzene	105	10.989	10.989	0.000	91	615968	50.0	47.7	
100 4-Chlorotoluene	91	11.000	11.000	0.000	94	563711	50.0	47.3	
102 4-Isopropyltoluene	119	11.377	11.377	0.000	91	629305	50.0	50.9	
104 1,2,4-Trimethylbenzene	105	11.435	11.435	0.000	94	615507	50.0	48.7	
105 sec-Butylbenzene	105	11.644	11.644	0.000	93	875493	50.0	48.9	
106 1,3-Dichlorobenzene	146	11.765	11.765	0.000	97	372276	50.0	51.1	
107 tert-Butylbenzene	119	11.823	11.823	0.000	77	767701	50.0	49.4	
* 108 1,4-Dichlorobenzene-d4	152	11.844	11.844	0.000	93	235099	50.0	50.0	
109 1,4-Dichlorobenzene	146	11.875	11.875	0.000	96	359094	50.0	50.9	
112 n-Butylbenzene	91	12.321	12.321	0.000	96	630878	50.0	46.2	
113 1,2-Dichlorobenzene	146	12.321	12.321	0.000	69	306581	50.0	50.6	
114 1,2-Dibromo-3-Chloropropan	75	13.275	13.275	0.000	44	11952	50.0	44.3	
116 1,2,4-Trichlorobenzene	180	14.297	14.297	0.000	93	195013	50.0	42.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 Naphthalene	128	14.596	14.596	0.000	99	258688	50.0	43.7	
119 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	95	167145	50.0	46.3	
S 123 Xylenes, Total	1				0		100.0	90.6	

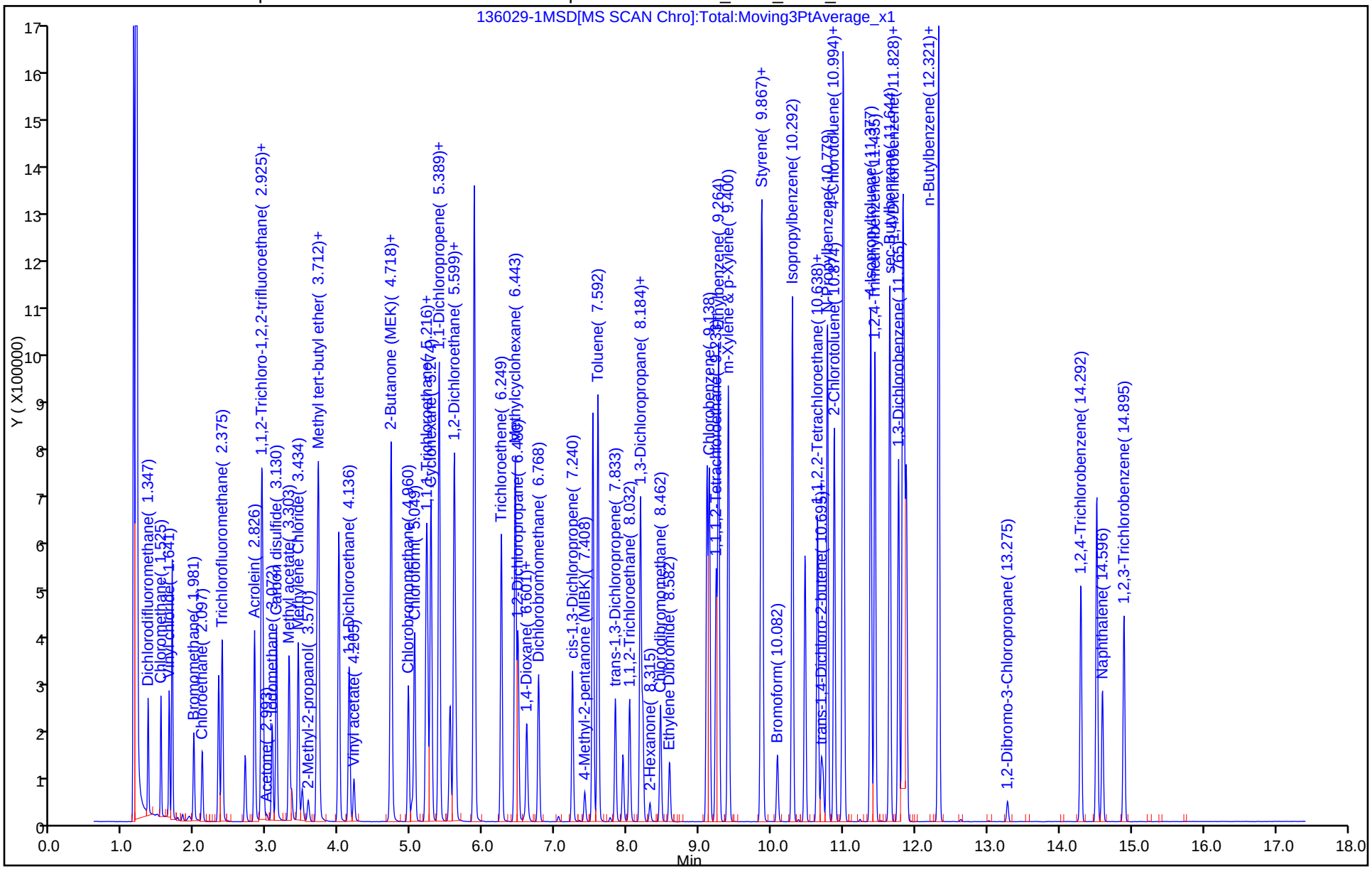
Reagents:

8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 07:50:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MSD.d				
Injection Date:	26-Oct-2017 19:45:30	Instrument ID:	CMS25	Operator ID:	JH
Lims ID:	500-136029-G-1 MSD			Worklist Smp#:	25
Client ID:	OMW2D-GW-101917				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W25cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\136029-1MSD.d				
Lims ID:	500-136029-G-1 MSD				
Client ID:	OMW2D-GW-101917				
Sample Type:	MSD				
Inject. Date:	26-Oct-2017 19:45:30	ALS Bottle#:	22	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-g-1 msd				
Misc. Info.:	500-0048625-025				
Operator ID:	JH	Instrument ID:	CMS25		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS25\20171026-48625.b\8260W25cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Last Update:	27-Oct-2017 07:49:12	Calib Date:	06-Dec-2016 01:45:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS25\20161205-42086.b\25I1205C2.d		

Column 1 :			Det: MS SCAN
Process Host:	XAWRK019		

First Level Reviewer: ficarellop Date: 27-Oct-2017 07:50:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	52.3	104.65
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	47.1	94.23
$ 70 Toluene-d8 (Surr)	50.0	46.5	92.94
$ 92 4-Bromofluorobenzene (Surr)	50.0	45.6	91.18

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: CMS25 Start Date: 12/05/2016 14:57

Analysis Batch Number: 363659 End Date: 12/06/2016 02:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-363659/1		12/05/2016 14:57	1	25B1205.d	DB624 0.2(mm)
STD01 500-363659/2 IC		12/05/2016 15:34	1	25I1205A.d	DB624 0.2(mm)
STD02 500-363659/3 IC		12/05/2016 16:02	1	25I1205B.d	DB624 0.2(mm)
STD04 500-363659/5 IC		12/05/2016 16:57	1	25I1205D.d	DB624 0.2(mm)
STD05 500-363659/6 IC		12/05/2016 17:25	1	25I1205E.d	DB624 0.2(mm)
STD06 500-363659/7 IC		12/05/2016 17:53	1	25I1205F.d	DB624 0.2(mm)
STD07 500-363659/8 ICIS		12/05/2016 18:20	1	25I1205G.d	DB624 0.2(mm)
STD08 500-363659/9 IC		12/05/2016 18:48	1	25I1205H.d	DB624 0.2(mm)
STD09 500-363659/10 IC		12/05/2016 19:16	1	25I1205I.d	DB624 0.2(mm)
STD10 500-363659/11 IC		12/05/2016 19:44	1	25I1205J.d	DB624 0.2(mm)
STD03AP 500-363659/13 IC		12/05/2016 20:39	1	25J1205C.d	DB624 0.2(mm)
STD04AP 500-363659/14 IC		12/05/2016 21:07	1	25J1205D.d	DB624 0.2(mm)
STD05AP 500-363659/15 IC		12/05/2016 21:35	1	25J1205E.d	DB624 0.2(mm)
STD06AP 500-363659/16 IC		12/05/2016 22:58	1	25J1205F.d	DB624 0.2(mm)
STD07AP 500-363659/17 IC		12/05/2016 23:26	1	25J1205G.d	DB624 0.2(mm)
STD08AP 500-363659/18 IC		12/05/2016 23:54	1	25J1205H.d	DB624 0.2(mm)
STD09AP 500-363659/19 IC		12/06/2016 00:21	1	25J1205I.d	DB624 0.2(mm)
STD10AP 500-363659/20 IC		12/06/2016 00:49	1	25J1205J.d	DB624 0.2(mm)
STD03 500-363659/27 IC		12/06/2016 01:45	1	25I1205C2.d	DB624 0.2(mm)
ICV 500-363659/22		12/06/2016 02:13	1	25S1205ICV1.d	DB624 0.2(mm)
ICV 500-363659/23		12/06/2016 02:40	1	24S1205ICV2.d	DB624 0.2(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: CMS25 Start Date: 10/26/2017 09:05

Analysis Batch Number: 407027 End Date: 10/26/2017 19:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-407027/1		10/26/2017 09:05	1	25B1026.d	DB624 0.2(mm)
CCV 500-407027/3		10/26/2017 10:05	1	25D1026.d	DB624 0.2(mm)
CCVIS 500-407027/4		10/26/2017 10:35	1	25S1026.d	DB624 0.2(mm)
MB 500-407027/6		10/26/2017 11:47	1	25M1026.d	DB624 0.2(mm)
LCS 500-407027/7		10/26/2017 12:17	1	25S1026A.d	DB624 0.2(mm)
ZZZZZ		10/26/2017 12:47	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 13:17	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 13:47	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 14:17	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 14:46	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 15:16	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 15:46	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 16:16	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 16:46	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 17:16	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 17:45	1		DB624 0.2(mm)
500-136029-1		10/26/2017 18:15	1	136029-1.d	DB624 0.2(mm)
500-136029-2		10/26/2017 18:45	1	136029-2.d	DB624 0.2(mm)
500-136029-1 MS		10/26/2017 19:15	1	136029-1MS.d	DB624 0.2(mm)
500-136029-1 MSD		10/26/2017 19:45	1	136029-1MSD.d	DB624 0.2(mm)

8260B

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: 27 10/23

2 STD

Job # 500-136029

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Container Lot#	Analytical Batch	misc info
1	1	2	⊘	25 10/26/17	48625			407027	OK
1MS	1	2	⊘	25 10/26/17	48625			407027	OK
1MSD	1	2	⊘	25 10/26/17	48625			407027	OK
2	1	2	⊘	25 10/26/17	48625			407027	OK

Reviewed by: [signature] Date: 10-28-17

CHI-22-20-075/E-09/17

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 500-136029

Date	Time Out	Time In	ICOC Initials	misc info
10/20/07	1115	1115	[illegible]	[illegible]

CHI-22-20-074/A-01/08

Method 8260B SIM

Volatile Organic Compounds (GC/MS SIM) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCA #
OMW2D-GW-101917	500-136029-1	100
	MB 240-300228/5	99
	LCS 240-300228/4	101
OMW2D-GW-101917 MS	500-136029-1 MS	103
OMW2D-GW-101917 MSD	500-136029-1 MSD	103

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	63-125

Column to be used to flag recovery values

FORM II 8260B SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: X21278.D

Lab ID: LCS 240-300228/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	10.0	11.1	111	59-131	

Column to be used to flag recovery and RPD values

FORM III 8260B SIM

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: X21282.D

Lab ID: 500-136029-1 MS Client ID: OMW2D-GW-101917 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	10.0	ND	9.69	97	52-129	

Column to be used to flag recovery and RPD values

FORM III 8260B SIM

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: X21283.D

Lab ID: 500-136029-1 MSD Client ID: OMW2D-GW-101917 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	10.0	10.5	105	8	13	52-129	

Column to be used to flag recovery and RPD values

FORM III 8260B SIM

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab File ID: X21279.D Lab Sample ID: MB 240-300228/5

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: A3UX2 Date Analyzed: 10/23/2017 16:33

GC Column: ZB-624 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-300228/4	X21278.D	10/23/2017 16:09
OMW2D-GW-101917	500-136029-1	X21281.D	10/23/2017 17:22
OMW2D-GW-101917 MS	500-136029-1 MS	X21282.D	10/23/2017 17:47
OMW2D-GW-101917 MSD	500-136029-1 MSD	X21283.D	10/23/2017 18:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab File ID: BFBX2077.D BFB Injection Date: 10/06/2017

Instrument ID: A3UX2 BFB Injection Time: 14:32

Analysis Batch No.: 297993

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	91.9	
175	5.0 - 9.0 % of mass 174	6.6	(7.2) 1
176	95.0 - 101.0 % of mass 174	89.7	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 240-297993/3	X21217.D	10/06/2017	15:17
	IC 240-297993/4	X21218.D	10/06/2017	15:42
	IC 240-297993/5	X21219.D	10/06/2017	16:07
	ICIS 240-297993/6	X21220.D	10/06/2017	16:31
	IC 240-297993/7	X21221.D	10/06/2017	16:56
	IC 240-297993/8	X21222.D	10/06/2017	17:20
	IC 240-297993/9	X21223.D	10/06/2017	17:45
	IC 240-297993/10	X21224.D	10/06/2017	18:10
	ICV 240-297993/11	X21225.D	10/06/2017	18:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab File ID: BFBX2082.D BFB Injection Date: 10/23/2017

Instrument ID: A3UX2 BFB Injection Time: 14:59

Analysis Batch No.: 300228

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.4	
75	30.0 - 60.0 % of mass 95	52.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	54.0	
175	5.0 - 9.0 % of mass 174	4.2	(7.8) 1
176	95.0 - 101.0 % of mass 174	51.5	(95.5) 1
177	5.0 - 9.0 % of mass 176	3.3	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-300228/3	X21277.D	10/23/2017	15:44
	LCS 240-300228/4	X21278.D	10/23/2017	16:09
	MB 240-300228/5	X21279.D	10/23/2017	16:33
OMW2D-GW-101917	500-136029-1	X21281.D	10/23/2017	17:22
OMW2D-GW-101917 MS	500-136029-1 MS	X21282.D	10/23/2017	17:47
OMW2D-GW-101917 MSD	500-136029-1 MSD	X21283.D	10/23/2017	18:12

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Sample No.: ICIS 240-297993/6 Date Analyzed: 10/06/2017 16:31

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm)

Lab File ID (Standard): X21220.D Heated Purge: (Y/N) Y

Calibration ID: 41784

		FB		14DD8			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		6133182	4.76	122569	6.00		
UPPER LIMIT		12266364	5.26	245138	6.50		
LOWER LIMIT		3066591	4.26	61285	5.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-297993/11		5237674	4.76	111619	6.00		
CCVIS 240-300228/3		5470217	4.76	117054	6.00		

FB = Fluorobenzene
14DD8 = 1,4-Dioxane (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B SIM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Sample No.: CCVIS 240-300228/3 Date Analyzed: 10/23/2017 15:44

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm)

Lab File ID (Standard): X21277.D Heated Purge: (Y/N) Y

Calibration ID: 41784

		FB		14DD8			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5470217	4.76	117054	6.00		
UPPER LIMIT		10940434	5.26	234108	6.50		
LOWER LIMIT		2735109	4.26	58527	5.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-300228/4		5448381	4.76	109444	6.00		
MB 240-300228/5		5452417	4.76	108968	6.00		
500-136029-1	OMW2D-GW-101917	5272597	4.76	105956	6.00		
500-136029-1 MS	OMW2D-GW-101917 MS	5235464	4.76	113461	6.00		
500-136029-1 MSD	OMW2D-GW-101917 MSD	5131974	4.76	107866	6.00		

FB = Fluorobenzene
14DD8 = 1,4-Dioxane (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B SIM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917
Lab Sample ID: 500-136029-1
Matrix: Water
Lab File ID: X21281.D
Analysis Method: 8260B SIM
Date Collected: 10/19/2017 16:04
Sample wt/vol: 15(mL)
Date Analyzed: 10/23/2017 17:22
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300228
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21281.D				
Lims ID:	500-136029-B-1				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	Client				
Inject. Date:	23-Oct-2017 17:22:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-b-1				
Misc. Info.:	240-0069947-007				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: macenczaks Date: 24-Oct-2017 09:05:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.168	4.166	0.002	100	1781918	8.89	
* 7 Fluorobenzene	96	4.761	4.759	0.002	100	5272597	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	88	105956	177.7	

Reagents:

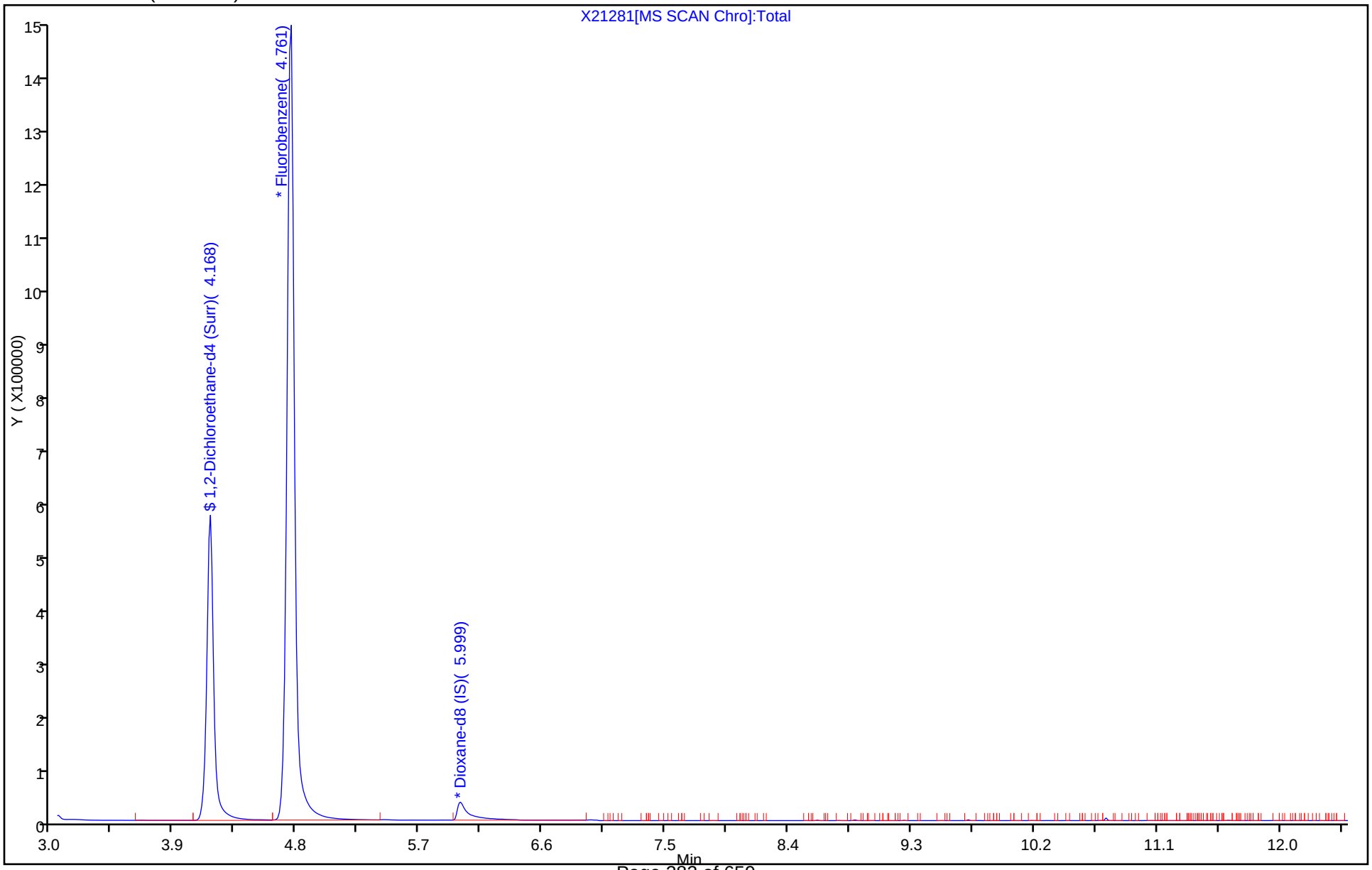
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 24-Oct-2017 09:22:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21281.D				
Injection Date:	23-Oct-2017 17:22:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	500-136029-B-1	Lab Sample ID:	240-136029-1	Worklist Smp#:	7
Client ID:	OMW2D-GW-10/19/17				
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21281.D				
Lims ID:	500-136029-B-1				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	Client				
Inject. Date:	23-Oct-2017 17:22:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-b-1				
Misc. Info.:	240-0069947-007				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: macenczaks Date: 24-Oct-2017 09:05:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.89	100.06

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 500-136029-1 Analy Batch No.: 297993

SDG No.:

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/06/2017 15:17 Calibration End Date: 10/06/2017 18:10 Calibration ID: 41784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-297993/10	X21224.D
Level 2	IC 240-297993/9	X21223.D
Level 3	IC 240-297993/8	X21222.D
Level 4	IC 240-297993/7	X21221.D
Level 5	IC 240-297993/3	X21217.D
Level 6	IC 240-297993/4	X21218.D
Level 7	IC 240-297993/5	X21219.D
Level 8	ICIS 240-297993/6	X21220.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.8140 1.2110	0.8346 1.1935	1.0075 1.1519	1.1261	1.2930	Ave		1.0790				16.4		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3803 0.3444	0.3191 0.3356	0.3503 0.2716	0.3526	0.3481	Ave		0.3377				9.4		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 500-136029-1 Analy Batch No.: 297993

SDG No.:

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/06/2017 15:17 Calibration End Date: 10/06/2017 18:10 Calibration ID: 41784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-297993/10	X21224.D
Level 2	IC 240-297993/9	X21223.D
Level 3	IC 240-297993/8	X21222.D
Level 4	IC 240-297993/7	X21221.D
Level 5	IC 240-297993/3	X21217.D
Level 6	IC 240-297993/4	X21218.D
Level 7	IC 240-297993/5	X21219.D
Level 8	ICIS 240-297993/6	X21220.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	14DD 8	Ave	477 86189	1098 41024	3344 15892	7979	172268	1.00 100	2.00 50.0	5.00 20.0	10.0	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	114136 11580916	200314 5469977	568263 1665770	1145657	24225429	0.500 48.9	1.00 23.9	2.50 8.88	5.00	98.9

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21217.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	06-Oct-2017 15:17:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-003				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:27	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 06-Oct-2017 16:06:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	24225429	98.9	101.9	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	6252892	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	6.006	5.999	0.008	95	118362	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	95	172268	200.0	239.7	

Reagents:

vmdioxanew_00108	Amount Added: 30.00	Units: uL
vm150is_00060	Amount Added: 0.89	Units: uL
vm150ss_00006	Amount Added: 0.89	Units: uL
vm50ss_00299	Amount Added: 27.00	Units: uL

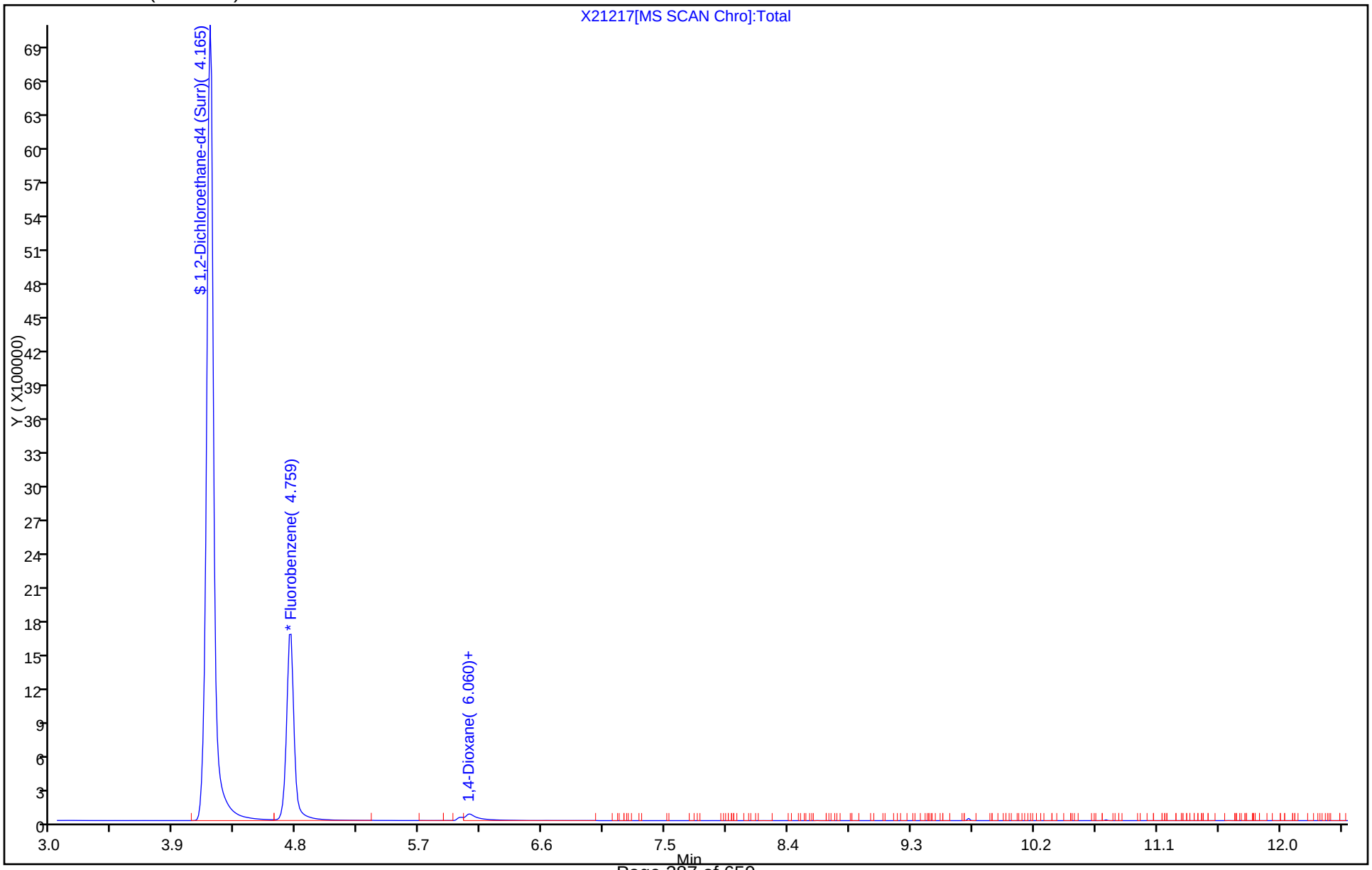
Report Date: 09-Oct-2017 11:06:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21217.D

Injection Date:	06-Oct-2017 15:17:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21218.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	06-Oct-2017 15:42:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-004				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:28	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 06-Oct-2017 16:06:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	11580916	48.9	49.8	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6111136	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	95	126453	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	96	86189	100.0	112.2	

Reagents:

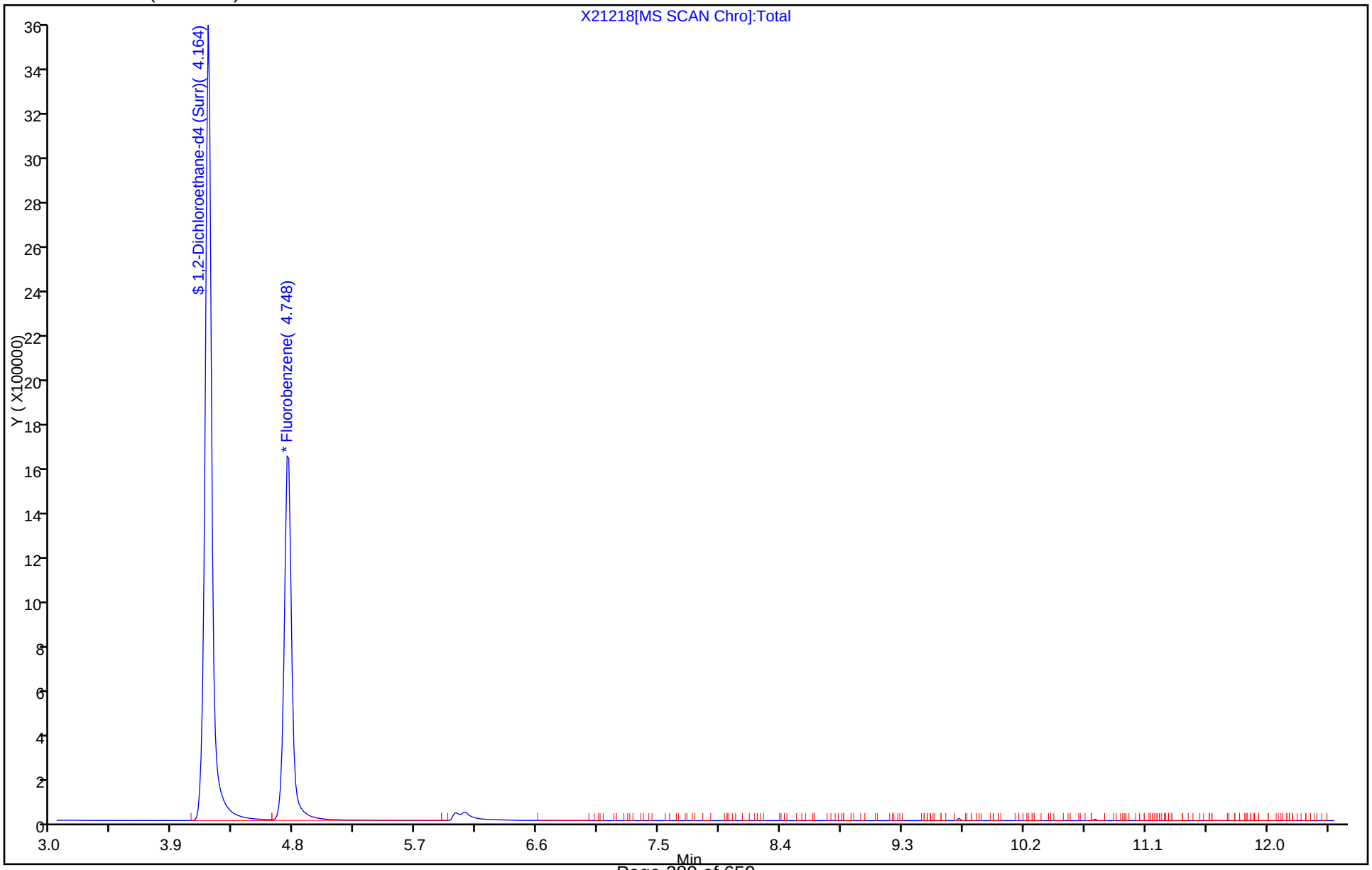
vm150is_00060	Amount Added: 0.89	Units: uL
vm150ss_00006	Amount Added: 0.89	Units: uL
vmdioxanew_00108	Amount Added: 15.00	Units: uL
vm50ss_00299	Amount Added: 12.00	Units: uL

Report Date: 09-Oct-2017 11:06:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21218.D				
Injection Date:	06-Oct-2017 15:42:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21219.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	06-Oct-2017 16:07:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-005				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:29	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:48:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.167	4.164	0.003	100	5469977	23.9	23.7	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6063208	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	6.006	5.999	0.008	94	122144	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	95	41024	50.0	55.3	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vm150ss_00006	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	7.50	Units: uL
vm50ss_00299	Amount Added:	4.50	Units: uL

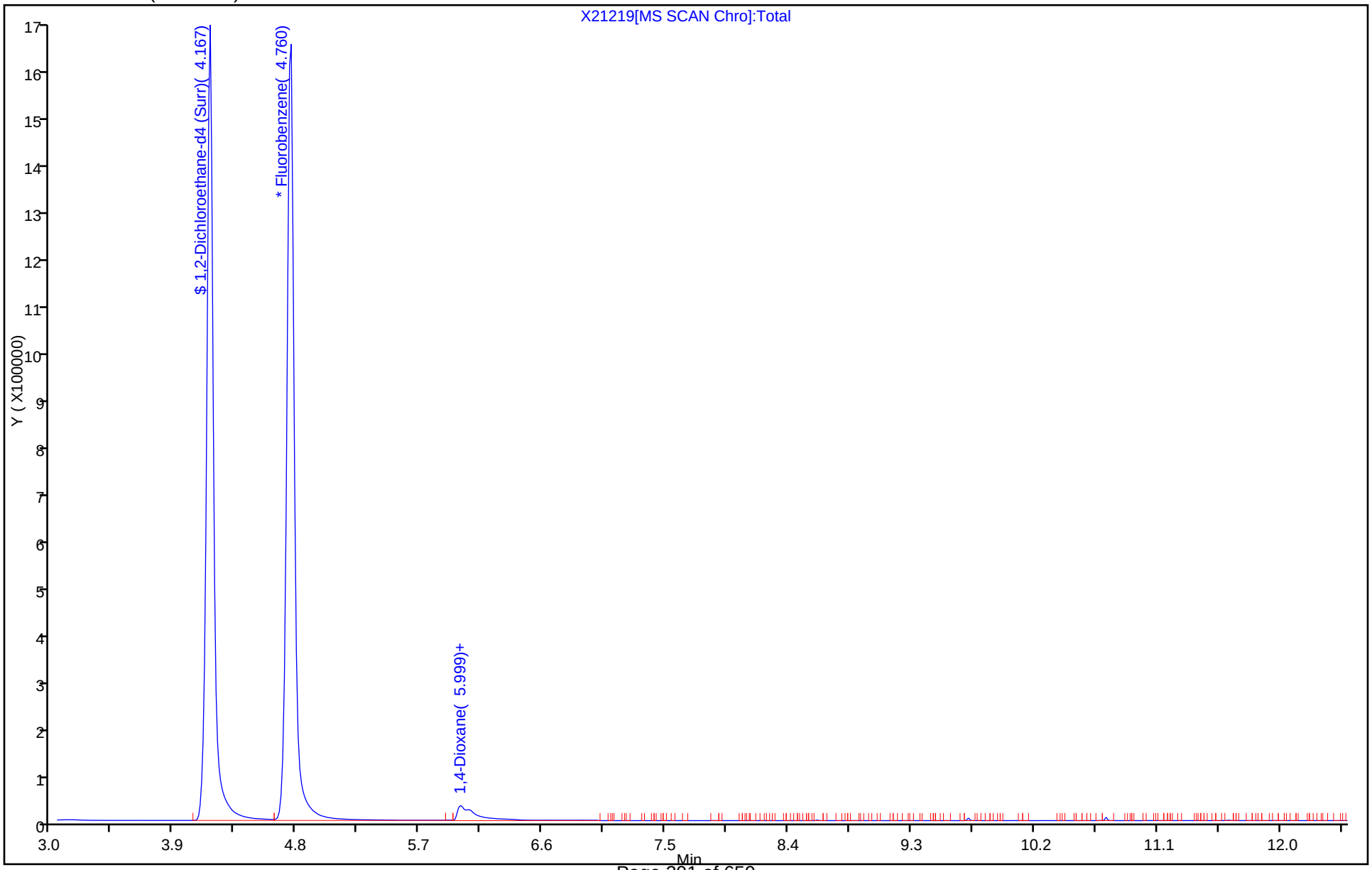
Report Date: 09-Oct-2017 11:06:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21219.D

Injection Date:	06-Oct-2017 16:07:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Lims ID:	icis				
Client ID:					
Sample Type:	ICIS	Calib Level:	5		
Inject. Date:	06-Oct-2017 16:31:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	icis				
Misc. Info.:	240-0069413-006				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:30	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:48:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1665770	8.88	7.14	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6133182	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	95	122569	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	93	15892	20.0	21.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

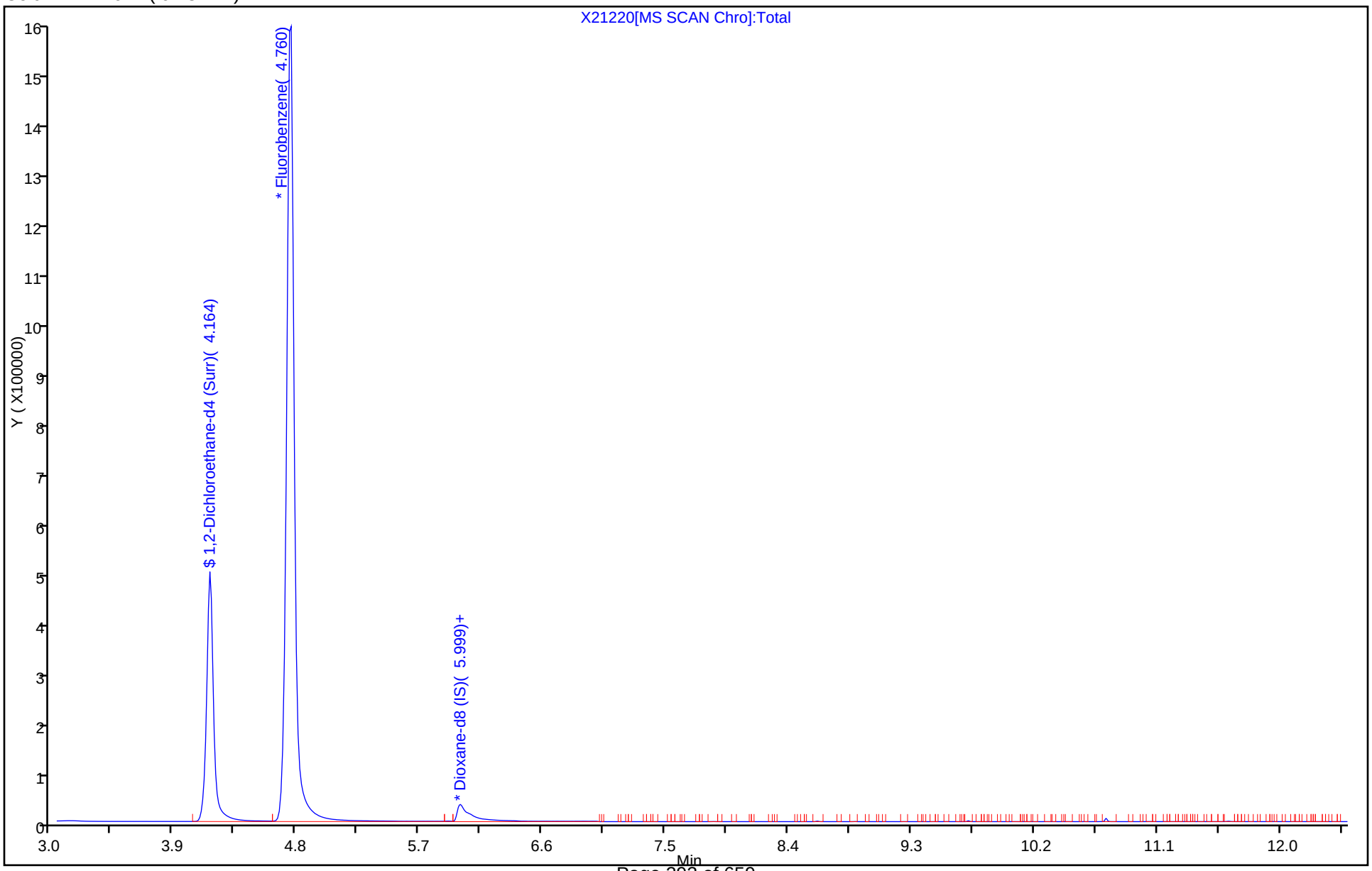
vm150is_00060	Amount Added:	0.89	Units: uL
vm150ss_00006	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	3.00	Units: uL

Report Date: 09-Oct-2017 11:06:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Injection Date:	06-Oct-2017 16:31:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	icis			Worklist Smp#:	6
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton

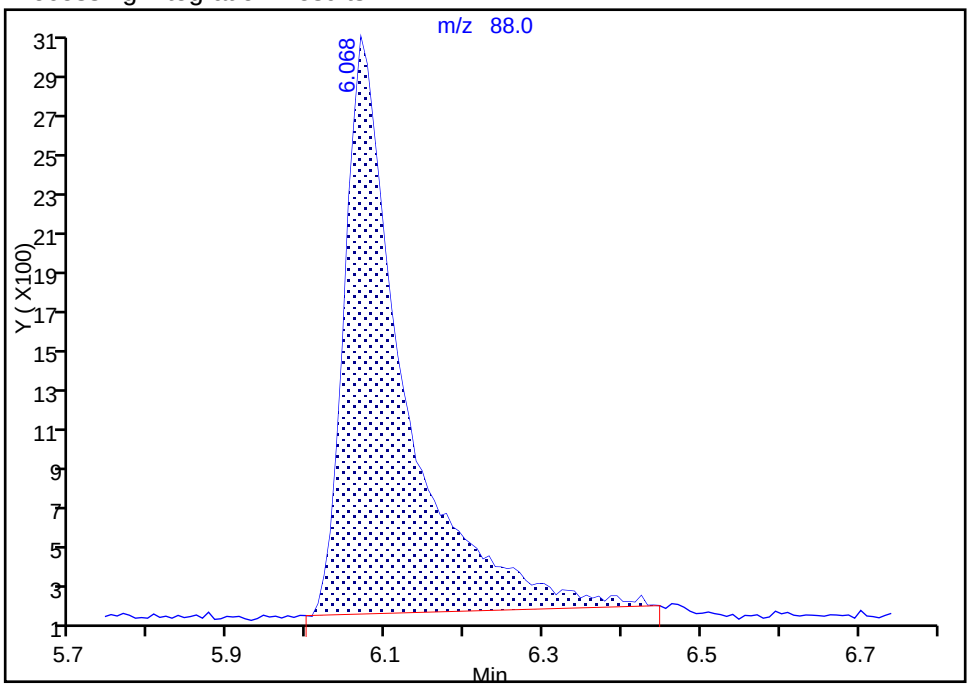
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Injection Date:	06-Oct-2017 16:31:30	Instrument ID:	A3UX2		
Lims ID:	icis				
Client ID:					
Operator ID:	002808	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

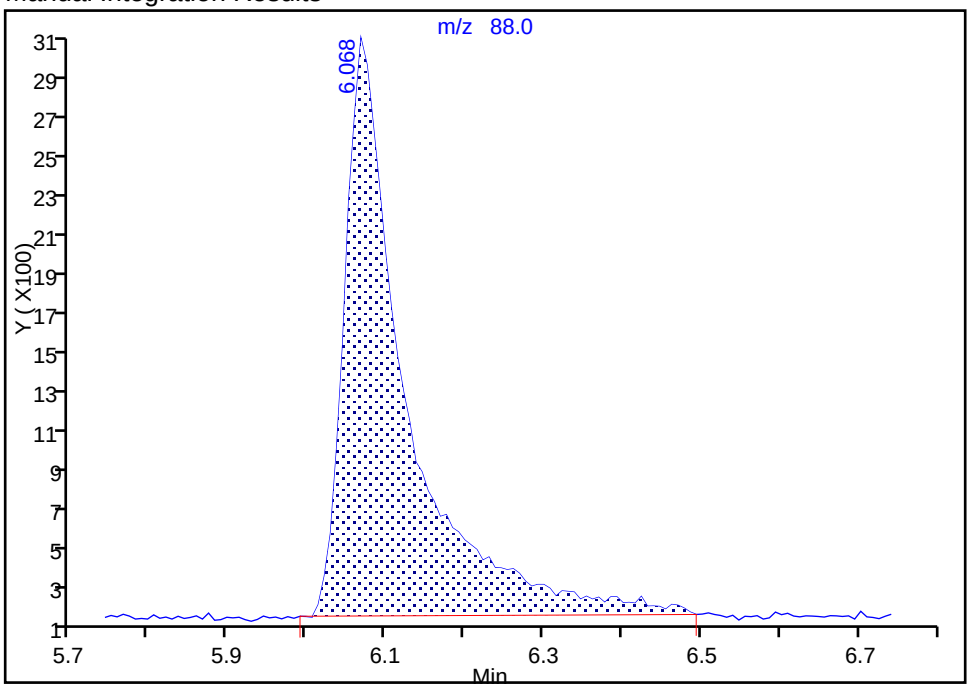
Processing Integration Results

RT: 6.07
Area: 15270
Amount: 20.623677
Amount Units: ug/l



Manual Integration Results

RT: 6.07
Area: 15892
Amount: 21.351645
Amount Units: ug/l



Reviewer: macenczaks, 09-Oct-2017 08:48:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21221.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	06-Oct-2017 16:56:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-007				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:31	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1145657	5.00	5.22	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	5773238	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	100	125891	177.7	177.7	
8 1,4-Dioxane	88	6.069	6.068	0.001	99	7979	10.0	10.4	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	1.50	Units: uL
vm50ss_00299	Amount Added:	1.50	Units: uL

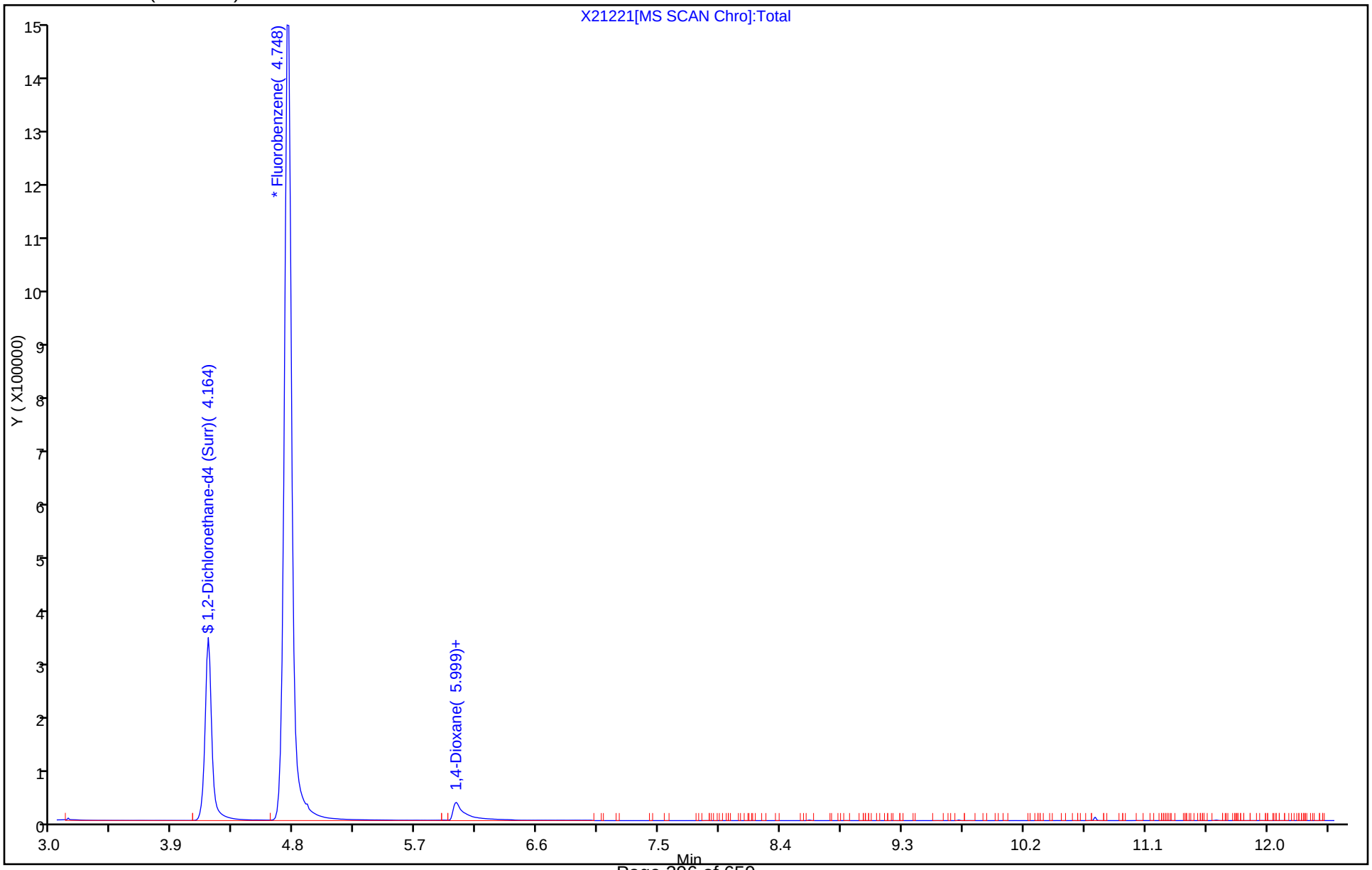
Report Date: 09-Oct-2017 11:06:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21221.D

Injection Date:	06-Oct-2017 16:56:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21222.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	06-Oct-2017 17:20:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-008				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:32	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.164	0.002	100	568263	2.50	2.59	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5765126	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.999	0.000	100	117951	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	99	3344	5.00	4.67	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.75	Units: uL
vm50ss_00299	Amount Added:	0.75	Units: uL

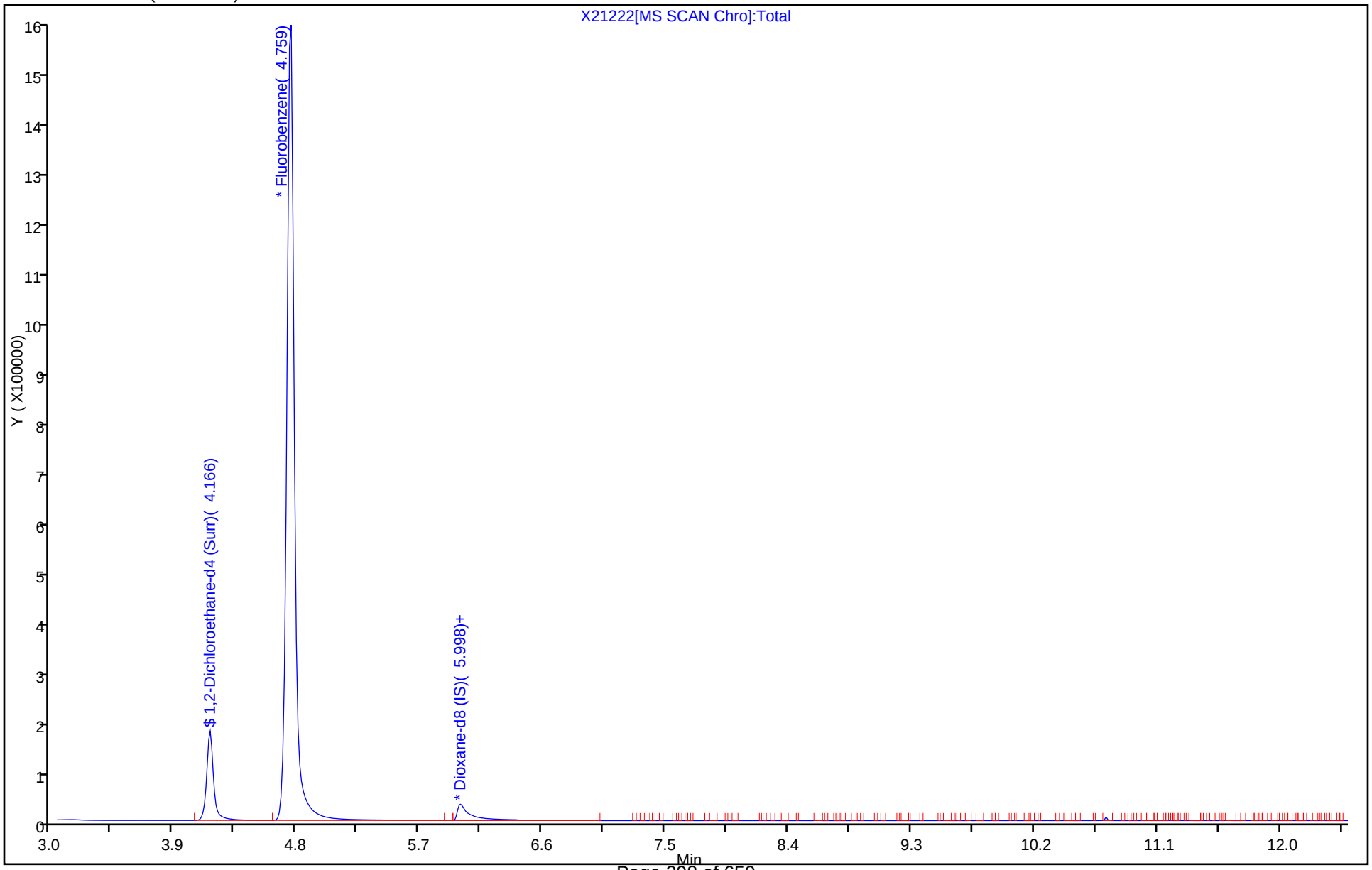
Report Date: 09-Oct-2017 11:06:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21222.D

Injection Date:	06-Oct-2017 17:20:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21223.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	06-Oct-2017 17:45:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-009				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:33	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	200314	1.00	0.9447	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5577617	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.999	0.000	100	116880	177.7	177.7	
8 1,4-Dioxane	88	6.076	6.068	0.008	99	1098	2.00	1.55	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.30	Units: uL
vm50ss_00299	Amount Added:	0.30	Units: uL

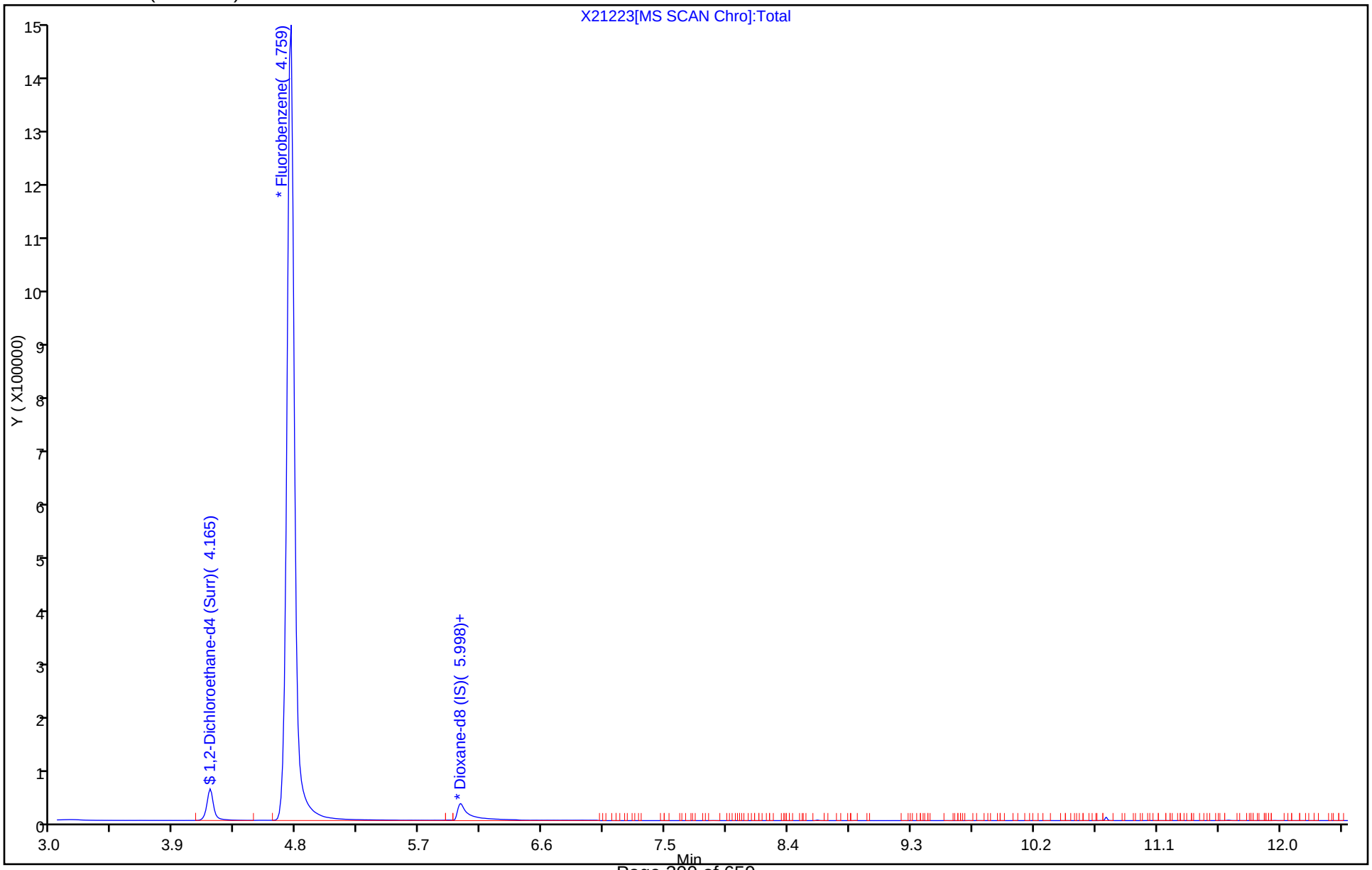
Report Date: 09-Oct-2017 11:06:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21223.D

Injection Date:	06-Oct-2017 17:45:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	06-Oct-2017 18:10:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-010				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				
First Level Reviewer: macenczaks		Date:	09-Oct-2017 08:51:05		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	114136	0.5000	0.5631	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	5331918	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	100	104118	177.7	177.7	
8 1,4-Dioxane	88	6.084	6.068	0.016	85	477	1.00	0.7544	

Reagents:

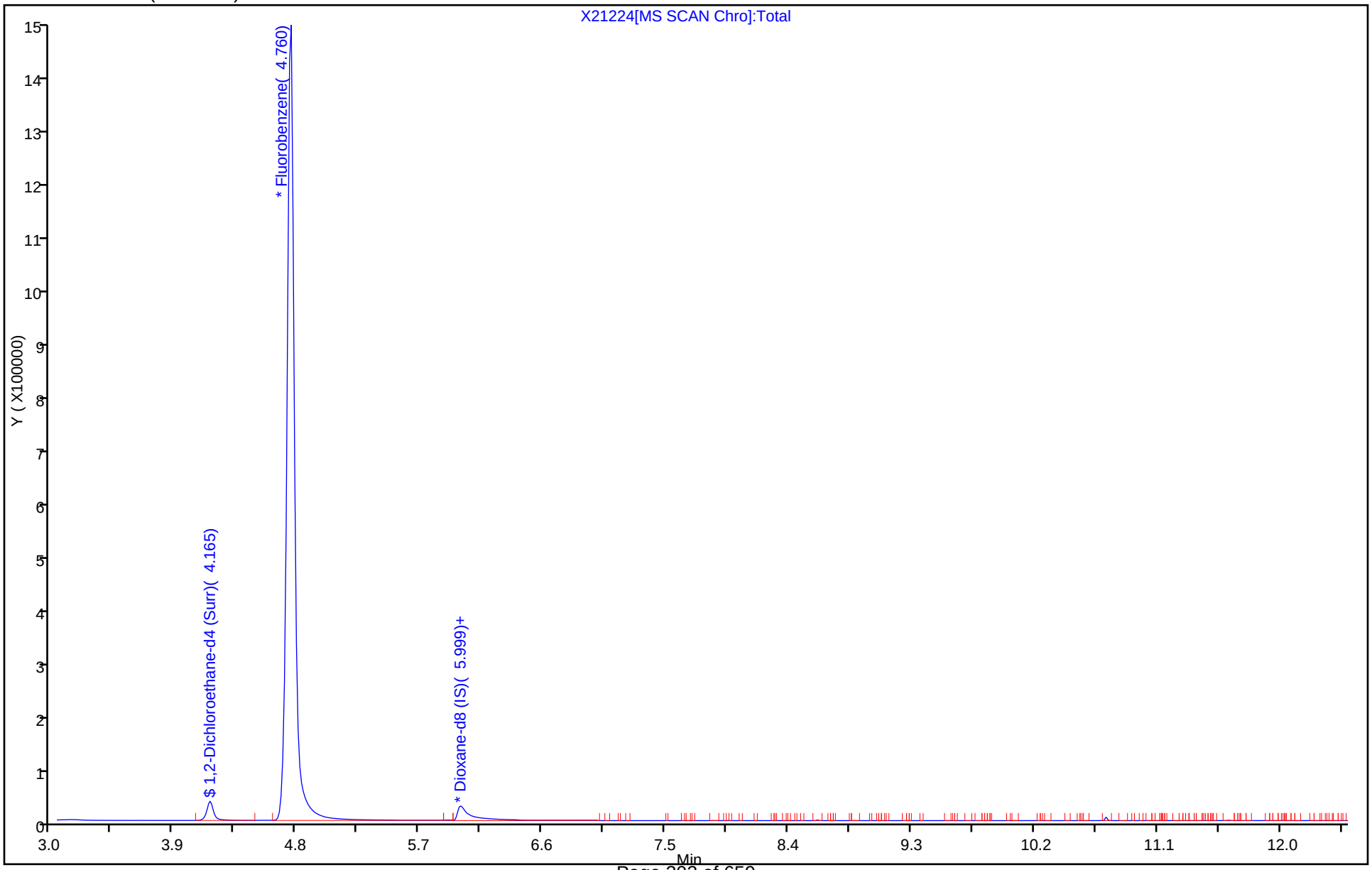
vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.15	Units: uL
vm50ss_00299	Amount Added:	0.15	Units: uL

Report Date: 09-Oct-2017 11:06:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Injection Date:	06-Oct-2017 18:10:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 240-297993/11 Calibration Date: 10/06/2017 18:35

Instrument ID: A3UX2 Calib Start Date: 10/06/2017 15:17

GC Column: ZB-624 ID: 0.53(mm) Calib End Date: 10/06/2017 18:10

Lab File ID: X21225.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.079	1.043		0.00967	0.0100	-3.3	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3377	0.3052		0.00803	0.00888	-9.6	

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21225.D				
Lims ID:	icv				
Client ID:					
Sample Type:	ICV				
Inject. Date:	06-Oct-2017 18:35:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	icv				
Misc. Info.:	240-0069413-011				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:					
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:51:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.164	0.002	100	1598540	8.88	8.03	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5237674	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	100	111619	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	100	6551	10.0	9.67	

Reagents:

vmdiox_spike_00121	Amount Added:	3.00	Units: uL	
vm150ss_00006	Amount Added:	0.89	Units: uL	Run Reagent
vmDist_H2o_00102	Amount Added:	0.00	Units:	Run Reagent
vm150is_00062	Amount Added:	0.89	Units: uL	Run Reagent

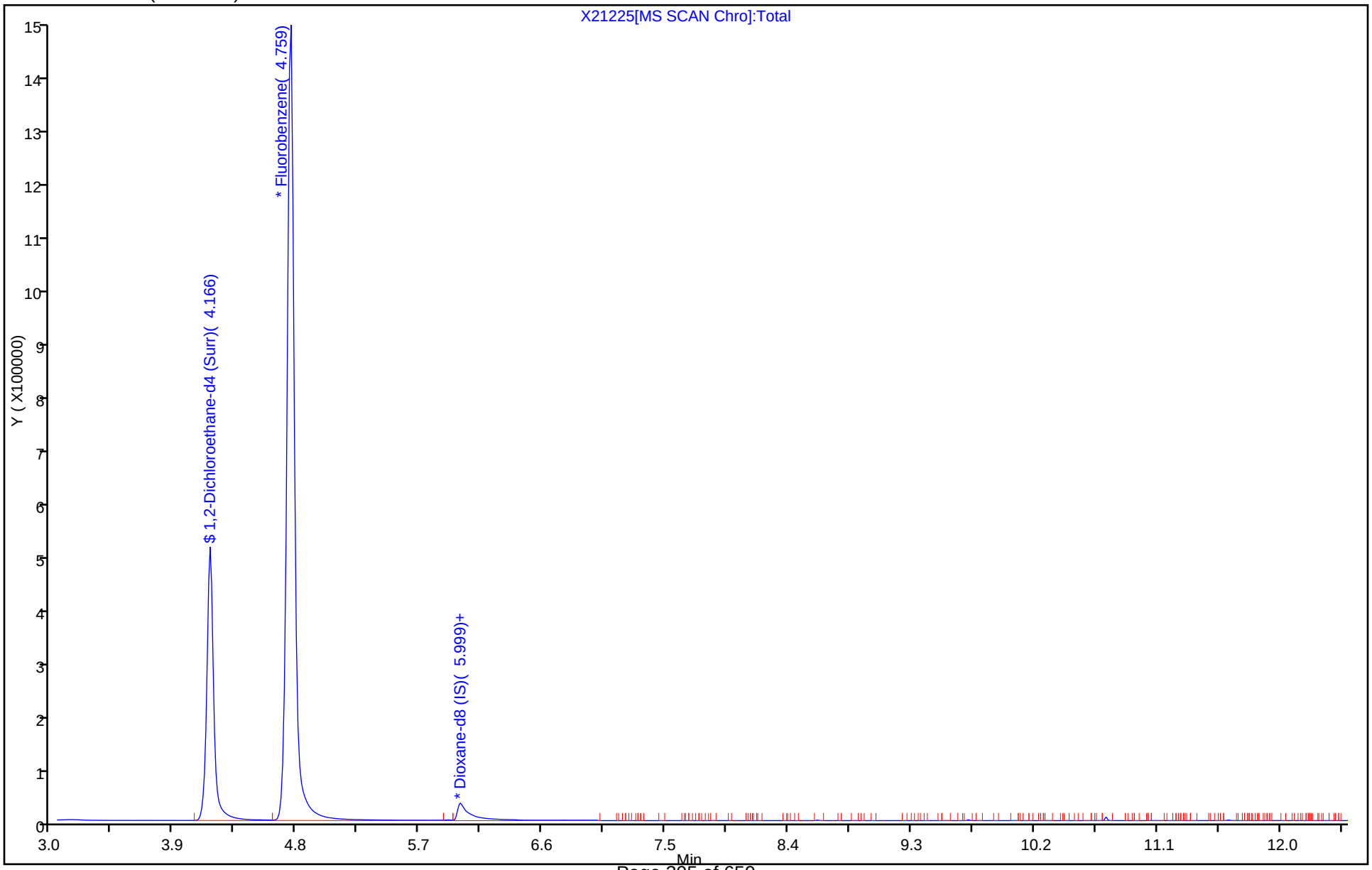
Report Date: 09-Oct-2017 11:06:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21225.D

Injection Date:	06-Oct-2017 18:35:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	icv			Worklist Smp#:	11
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVIS 240-300228/3 Calibration Date: 10/23/2017 15:44

Instrument ID: A3UX2 Calib Start Date: 10/06/2017 15:17

GC Column: ZB-624 ID: 0.53(mm) Calib End Date: 10/06/2017 18:10

Lab File ID: X21277.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.079	1.293		0.0240	0.0200	19.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3377	0.3417		0.00899	0.00888	1.2	35.0

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21277.D				
Lims ID:	ccvis				
Client ID:					
Sample Type:	CCVIS				
Inject. Date:	23-Oct-2017 15:44:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ccvis				
Misc. Info.:	240-0069947-003				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

First Level Reviewer: macenczaks Date: 23-Oct-2017 16:04:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.166	0.000	100	1869112	8.88	8.99	
* 7 Fluorobenzene	96	4.759	4.759	0.000	100	5470217	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	89	117054	177.7	177.7	
8 1,4-Dioxane	88	6.069	6.069	0.000	87	17035	20.0	24.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

vmdioxanew_00110	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

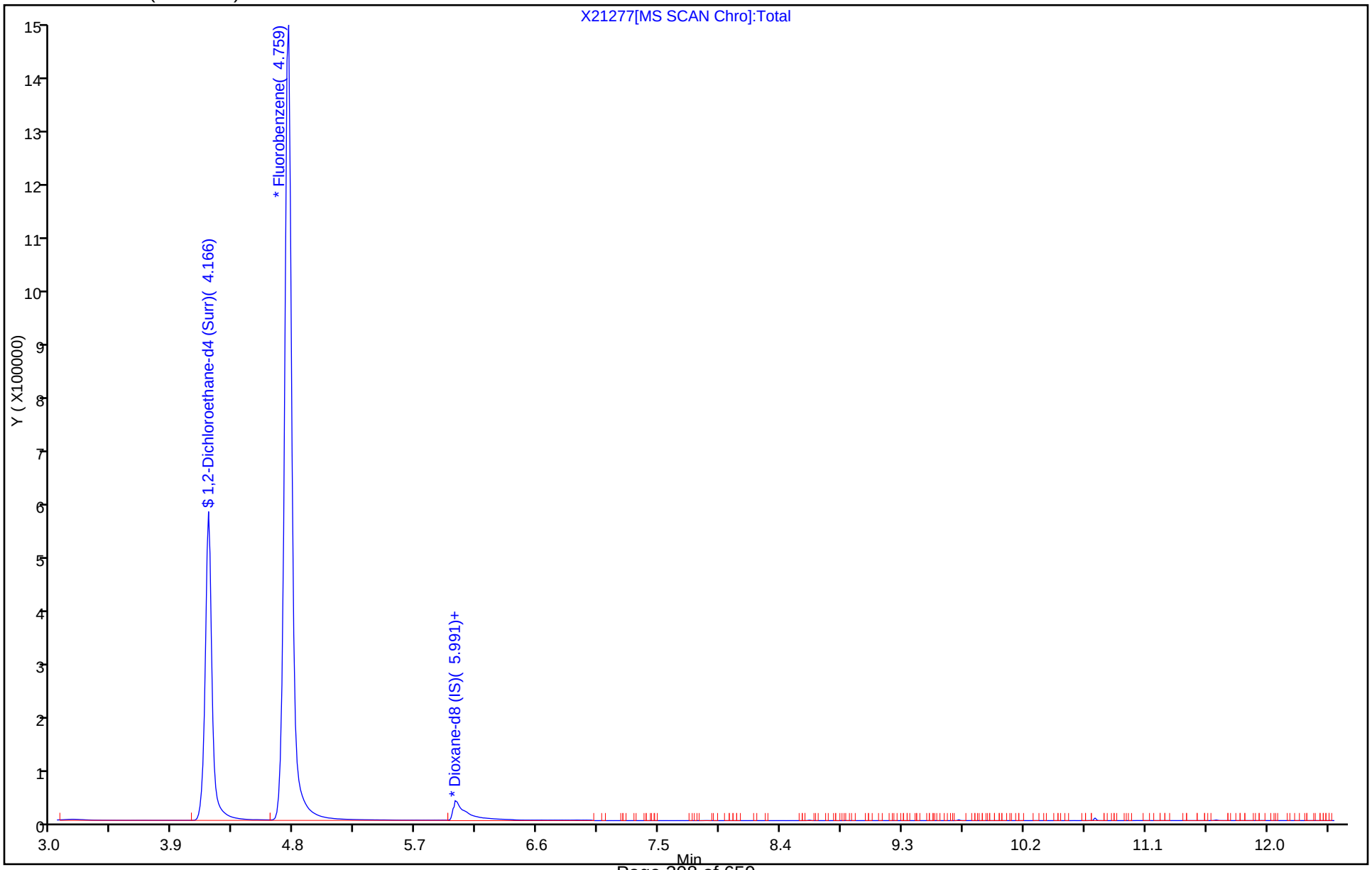
Report Date: 24-Oct-2017 09:21:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21277.D

Injection Date:	23-Oct-2017 15:44:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ccvis			Worklist Smp#:	3
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Canton

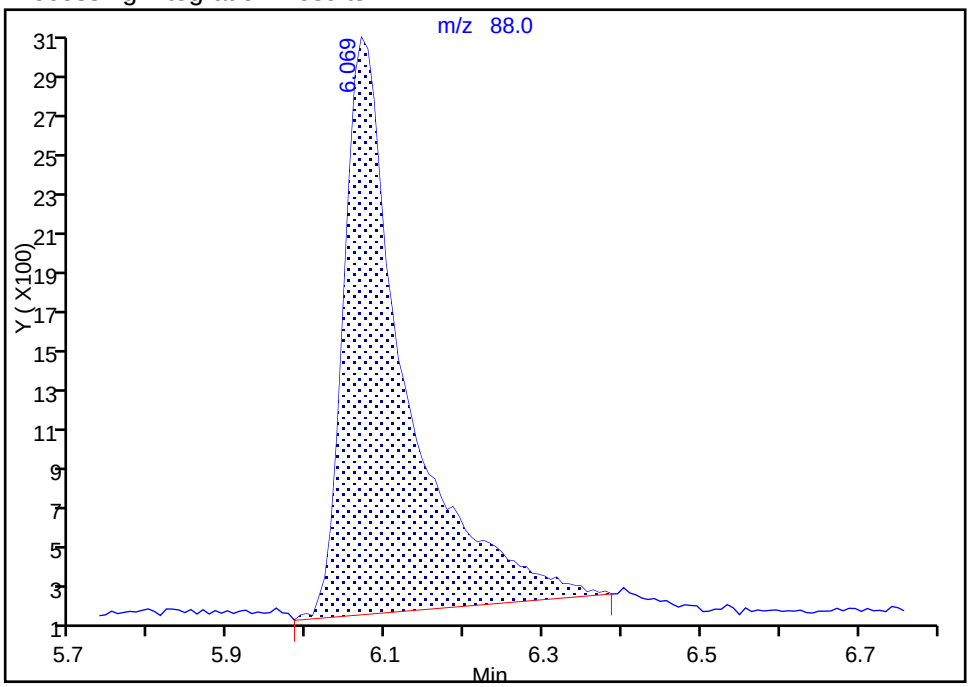
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21277.D				
Injection Date:	23-Oct-2017 15:44:30	Instrument ID:	A3UX2		
Lims ID:	ccvis				
Client ID:					
Operator ID:	002808	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

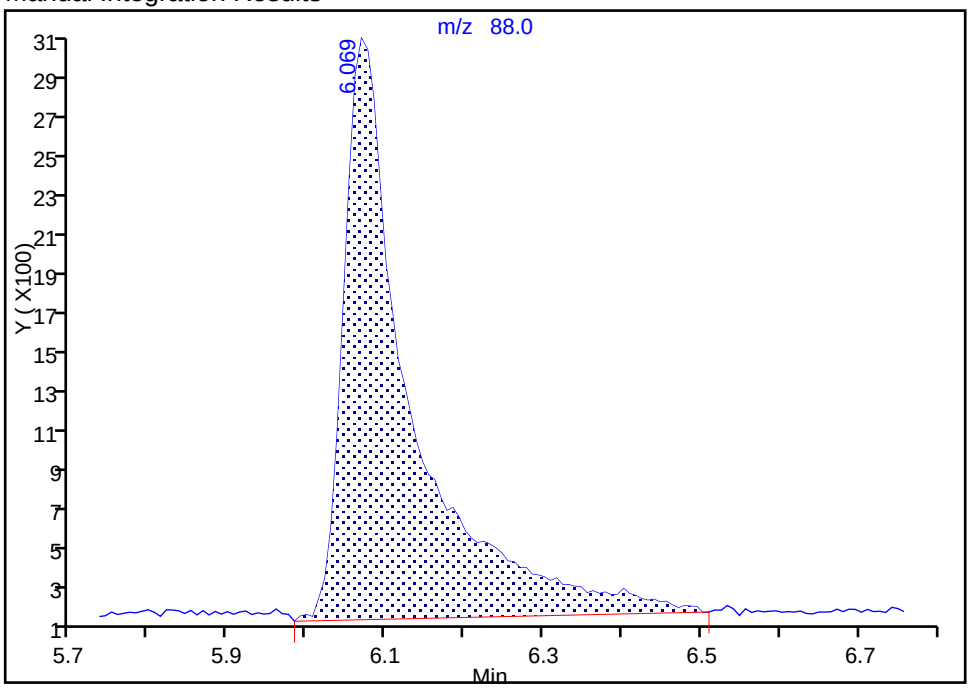
Processing Integration Results

RT: 6.07
Area: 15467
Amount: 21.759717
Amount Units: ug/l



Manual Integration Results

RT: 6.07
Area: 17035
Amount: 23.965655
Amount Units: ug/l



Reviewer: macenczaks, 23-Oct-2017 16:03:50

Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Oct-2017 14:32:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	240-0069413-001				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:26	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 3 BFB	95	2.806	2.806	0.000	0	5463519	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

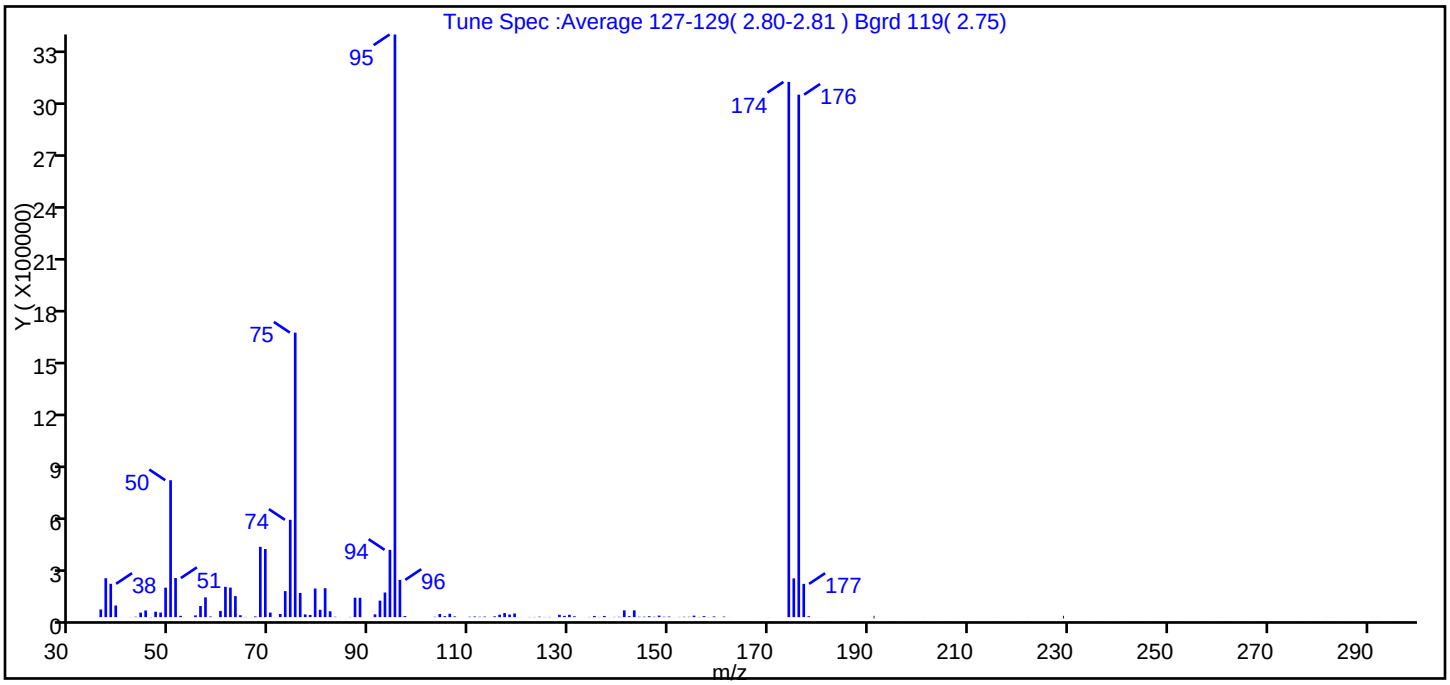
vmbfb_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D				
Injection Date:	06-Oct-2017 14:32:30	Instrument ID:	A3UX2		
Lims ID:	bfb				
Client ID:					
Operator ID:	002808	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Tune Method:	BFB Method 8260				

$ 3 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.9
175	5 to 9% of m/z 174	6.6 (7.2)
176	Greater than 95% but less than 101% of m/z 174	89.7 (97.6)
177	5 to 9% of m/z 176	5.7 (6.4)

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D\8260SIM_X2.rslt\spectra.d
Injection Date: 06-Oct-2017 14:32:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 119(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	43688	86.00	1148	142.00	5346	216.00	195
37.00	220992	87.00	110392	143.00	38632	220.00	77
38.00	189248	88.00	109848	144.00	2294	222.00	183
39.00	66144	89.00	216	145.00	2526	228.00	27
40.00	275	91.00	15861	146.00	5356	229.00	3
42.00	763	92.00	93584	147.00	2085	231.00	32
43.00	2306	93.00	139776	148.00	8795	234.00	52
44.00	25496	94.00	381888	149.00	2331	235.00	74
45.00	37928	95.00	3307008	150.00	3140	237.00	52
46.00	911	96.00	211584	151.00	230	238.00	104
47.00	30944	97.00	6186	152.00	1360	241.00	72
48.00	25688	99.00	42	153.00	2168	243.00	177
49.00	167360	102.00	93	154.00	2044	244.00	103
50.00	777216	103.00	1936	155.00	8535	245.00	51
51.00	221888	104.00	18024	156.00	1044	246.00	65
52.00	7518	105.00	5713	157.00	5721	247.00	51
54.00	111	106.00	19240	158.00	696	248.00	138
55.00	9885	107.00	4064	159.00	4153	252.00	35
56.00	63304	110.00	2230	160.00	224	253.00	55
57.00	112192	111.00	3591	161.00	3213	257.00	70
58.00	3617	112.00	2356	162.00	195	259.00	130
59.00	155	113.00	3198	165.00	130	260.00	196
60.00	35336	114.00	250	168.00	153	261.00	60
61.00	172160	115.00	4540	170.00	395	262.00	160
62.00	167552	116.00	13873	174.00	3037696	263.00	169
63.00	119584	117.00	23064	175.00	219840	265.00	51
64.00	10839	118.00	14549	176.00	2965504	267.00	91
65.00	1176	119.00	20808	177.00	188800	268.00	156
66.00	183	120.00	472	178.00	5142	270.00	75
67.00	4153	122.00	1033	179.00	19	271.00	37
68.00	399168	123.00	1175	180.00	179	273.00	55
69.00	386880	124.00	2666	181.00	91	274.00	54
70.00	25880	125.00	1036	182.00	120	276.00	79

Report Date: 09-Oct-2017 11:06:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D\8260SIM_X2.rslt\spectra.d
Injection Date: 06-Oct-2017 14:32:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 119(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	377	126.00	1331	186.00	189	277.00	131
72.00	17800	127.00	568	188.00	178	279.00	62
73.00	147584	128.00	13492	189.00	12	280.00	133
74.00	552448	129.00	7206	190.00	136	282.00	256
75.00	1614848	130.00	13670	191.00	4	283.00	189
76.00	137344	131.00	4993	195.00	221	284.00	64
77.00	15753	132.00	169	196.00	94	285.00	55
78.00	12303	134.00	1191	197.00	27	288.00	131
79.00	162432	135.00	6766	201.00	201	291.00	107
80.00	41736	136.00	1237	204.00	57	292.00	190
81.00	164480	137.00	6719	205.00	114	294.00	65
82.00	33200	138.00	214	206.00	51	296.00	139
83.00	2090	139.00	1309	209.00	256	298.00	69
84.00	300	140.00	2035	210.00	191		
85.00	152	141.00	38536	215.00	135		

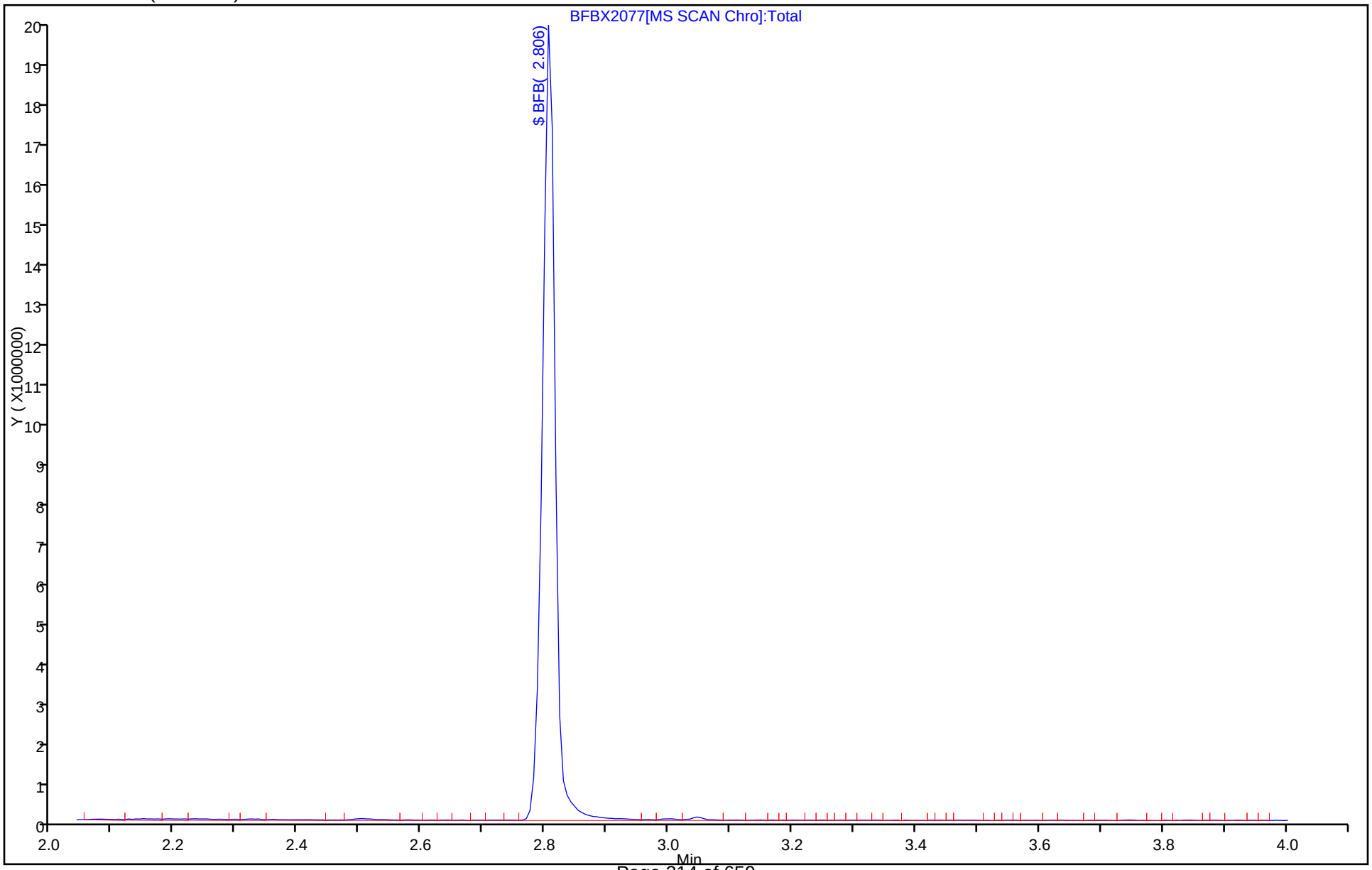
Report Date: 09-Oct-2017 11:06:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D

Injection Date:	06-Oct-2017 14:32:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\BFBX2082.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Oct-2017 14:59:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	240-0069947-001				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 3 BFB	95	2.805	2.805	0.000	0	4273744	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

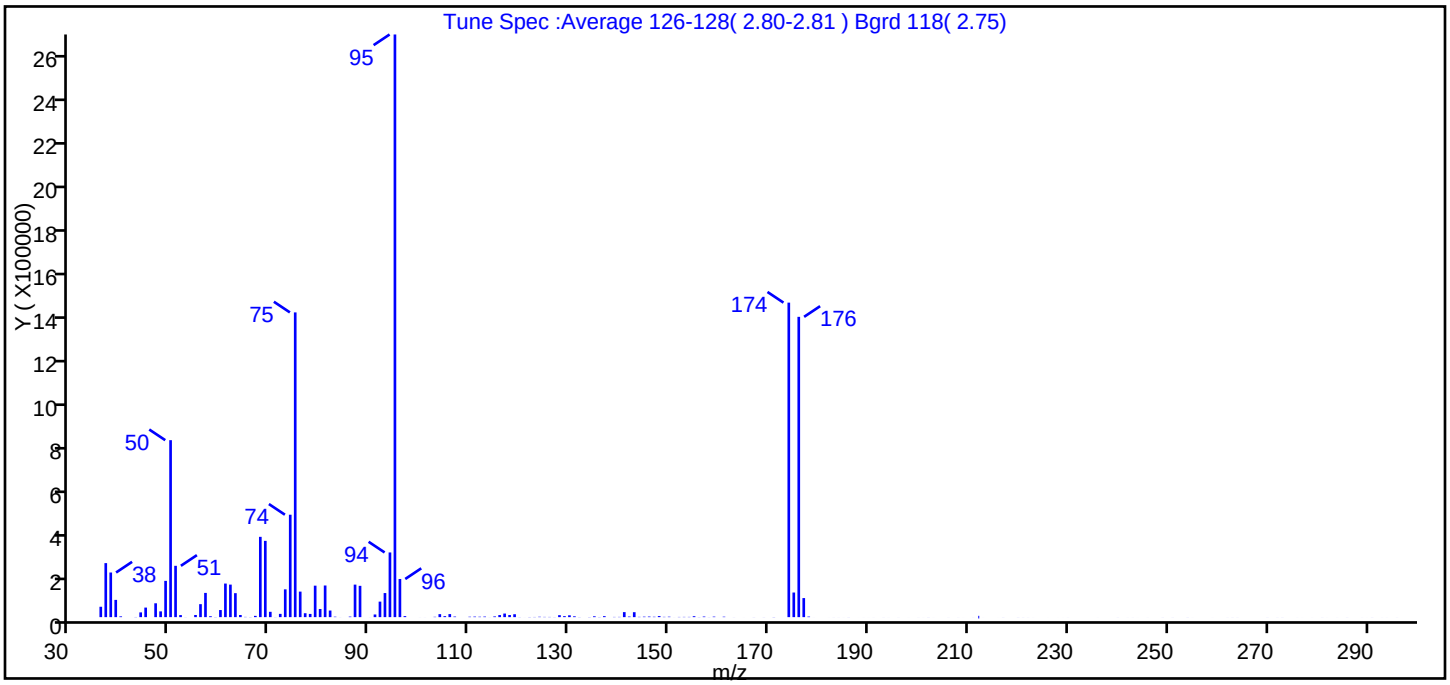
vmbfb_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\BFBX2082.D				
Injection Date:	23-Oct-2017 14:59:30	Instrument ID:	A3UX2		
Lims ID:	bfb				
Client ID:					
Operator ID:	002808	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Tune Method:	BFB Method 8260				

$ 3 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	30.4
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	54.0
175	5 to 9% of m/z 174	4.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	51.5 (95.5)
177	5 to 9% of m/z 176	3.3 (6.3)

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\BFBX2082.D\8260SIM_X2.rslt\spectra.d
Injection Date: 23-Oct-2017 14:59:30
Spectrum: Tune Spec :Average 126-128(2.80-2.81) Bgrd 118(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	46776	90.00	165	142.00	2572	206.00	111
37.00	243456	91.00	12049	143.00	22320	208.00	125
38.00	201152	92.00	69920	144.00	1283	209.00	52
39.00	77768	93.00	108544	145.00	2151	211.00	109
40.00	3413	94.00	291520	146.00	2635	212.00	5
43.00	692	95.00	2625536	147.00	1741	213.00	66
44.00	21408	96.00	171968	148.00	4919	216.00	57
45.00	43064	97.00	4613	149.00	1281	217.00	189
47.00	62432	98.00	17	150.00	2040	220.00	197
48.00	25984	100.00	113	151.00	140	221.00	149
49.00	163456	101.00	122	152.00	927	222.00	122
50.00	797440	103.00	1478	153.00	1094	223.00	59
51.00	231296	104.00	13488	154.00	1078	226.00	57
52.00	9252	105.00	4489	155.00	4146	228.00	53
53.00	268	106.00	13720	156.00	506	229.00	57
55.00	9709	107.00	2614	157.00	2696	230.00	94
56.00	58504	110.00	1872	158.00	351	236.00	58
57.00	109208	111.00	2437	159.00	2329	240.00	147
58.00	4001	112.00	1909	160.00	38	242.00	72
59.00	631	113.00	2525	161.00	1993	243.00	101
60.00	32000	114.00	196	163.00	179	244.00	52
61.00	151360	115.00	3231	165.00	67	246.00	83
62.00	146624	116.00	9402	167.00	251	249.00	173
63.00	108040	117.00	16160	169.00	238	251.00	142
64.00	9676	118.00	9563	171.00	596	254.00	195
65.00	1051	119.00	13145	174.00	1417216	255.00	64
66.00	569	120.00	423	175.00	110936	259.00	60
67.00	5754	121.00	101	176.00	1353216	262.00	114
68.00	361856	122.00	673	177.00	85904	263.00	143
69.00	343744	123.00	810	178.00	2437	264.00	135
70.00	24048	124.00	1695	179.00	72	270.00	149
71.00	368	125.00	1055	182.00	67	272.00	134
72.00	14765	126.00	939	183.00	139	273.00	164

Report Date: 24-Oct-2017 09:21:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\BFBX2082.D\8260SIM_X2.rslt\spectra.d
Injection Date: 23-Oct-2017 14:59:30
Spectrum: Tune Spec :Average 126-128(2.80-2.81) Bgrd 118(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	125240	127.00	406	184.00	119	276.00	87
74.00	461568	128.00	8895	185.00	70	277.00	57
75.00	1373184	129.00	4515	186.00	223	279.00	68
76.00	115048	130.00	8325	188.00	51	281.00	133
77.00	17608	131.00	3733	189.00	89	282.00	61
78.00	14511	132.00	497	190.00	59	284.00	78
79.00	141824	133.00	16	191.00	104	286.00	150
80.00	36720	134.00	643	193.00	132	289.00	72
81.00	142592	135.00	3771	194.00	83	290.00	51
82.00	29776	136.00	671	196.00	127	291.00	160
83.00	1998	137.00	4403	198.00	66	293.00	73
84.00	195	138.00	48	200.00	111	294.00	88
86.00	2403	139.00	974	201.00	73	296.00	121
87.00	146560	140.00	1087	202.00	201		
88.00	141056	141.00	22624	203.00	61		

Report Date: 24-Oct-2017 09:21:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\BFBX2082.D

Injection Date: 23-Oct-2017 14:59:30 Instrument ID: A3UX2 Operator ID: 002808

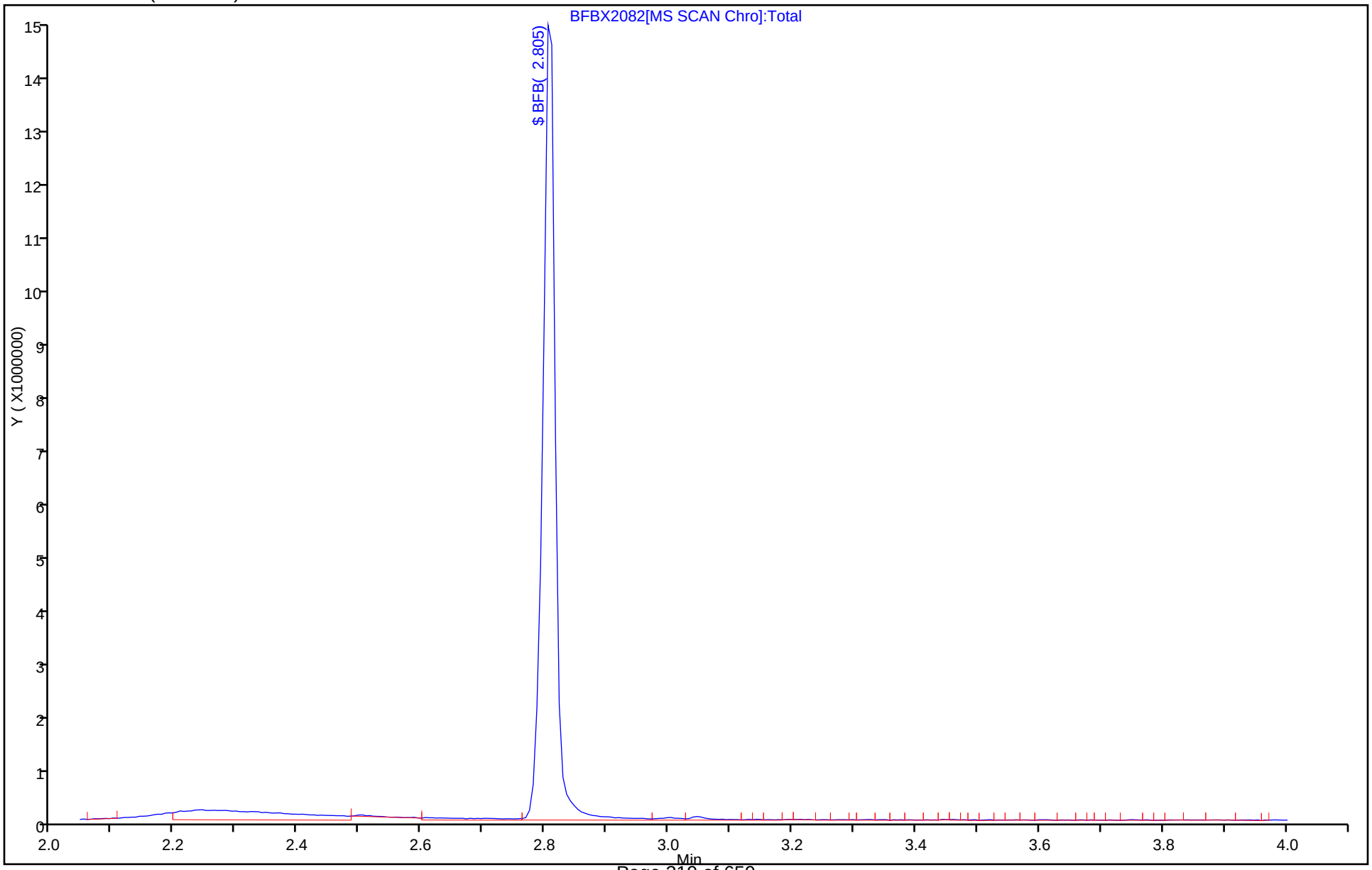
Lims ID: bfb Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260SIM_X2 Limit Group: MSV SIM ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136029-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 240-300228/5
Matrix: Water
Lab File ID: X21279.D
Analysis Method: 8260B SIM
Date Collected:
Sample wt/vol: 15(mL)
Date Analyzed: 10/23/2017 16:33
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300228
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21279.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	23-Oct-2017 16:33:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb				
Misc. Info.:	240-0069947-005				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: macenczaks		Date:	23-Oct-2017 16:50:55		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.166	-0.001	100	1824807	8.88	8.80	
* 7 Fluorobenzene	96	4.759	4.759	0.000	100	5452417	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	88	108968	177.7	177.7	
18 Ethylene Dibromide	107	8.130	8.137	-0.007	47	10		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

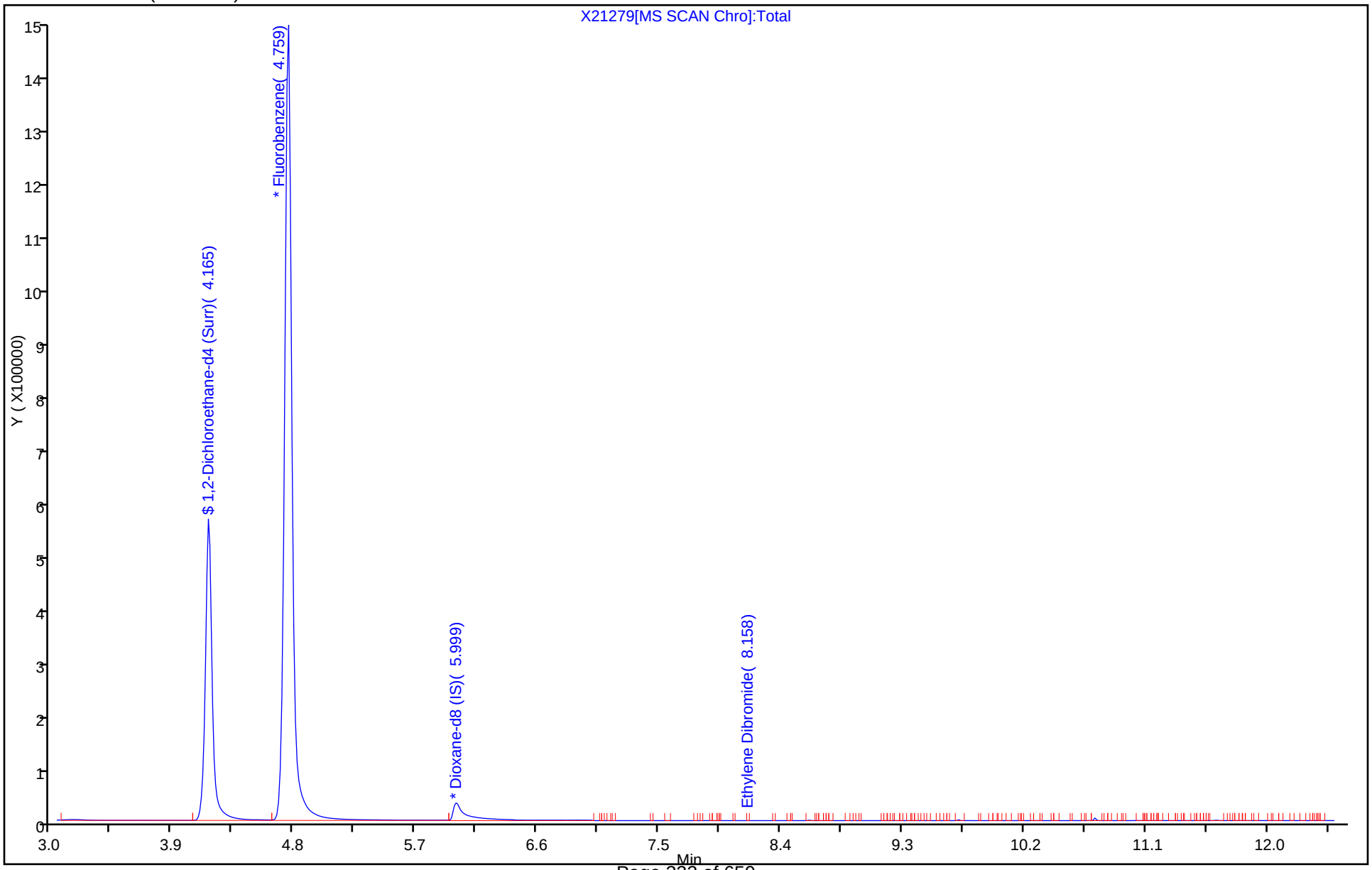
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 24-Oct-2017 09:21:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21279.D				
Injection Date:	23-Oct-2017 16:33:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21279.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	23-Oct-2017 16:33:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb				
Misc. Info.:	240-0069947-005				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

First Level Reviewer: macenczaks Date: 23-Oct-2017 16:50:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.80	99.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-300228/4

Matrix: Water | Lab File ID: X21278.D

Analysis Method: 8260B SIM | Date Collected:

Sample wt/vol: 15(mL) | Date Analyzed: 10/23/2017 16:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300228 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	11.1		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21278.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	23-Oct-2017 16:09:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	lcs				
Misc. Info.:	240-0069947-004				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: macenczaks		Date:	23-Oct-2017 16:43:11		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.166	-0.002	100	1852642	8.88	8.94	
* 7 Fluorobenzene	96	4.761	4.759	0.002	100	5448381	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	6.000	5.999	0.001	89	109444	177.7	177.7	
8 1,4-Dioxane	88	6.069	6.069	0.000	90	7389	10.0	11.1	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

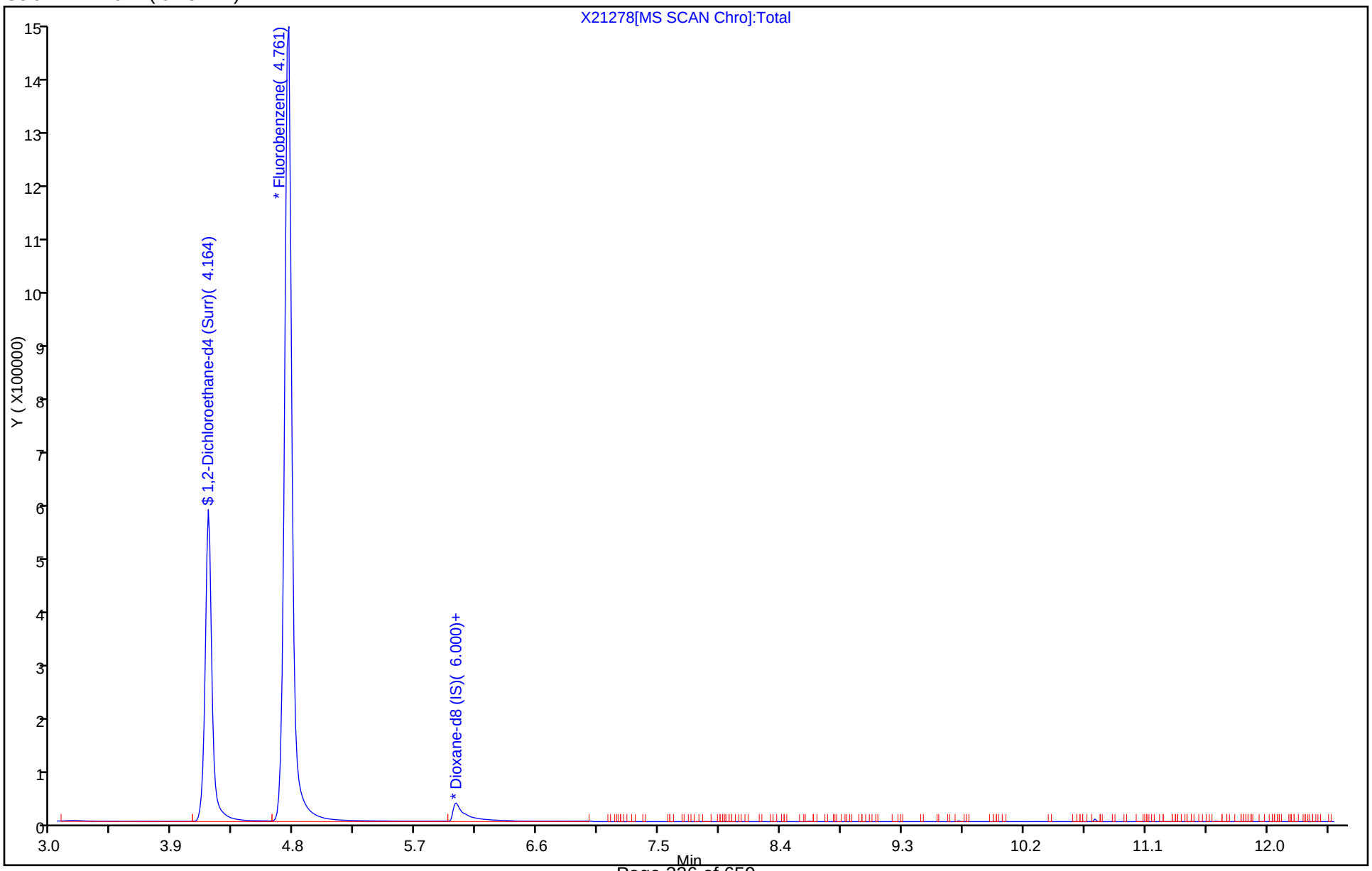
vmdiox_spike_00123	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 24-Oct-2017 09:21:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21278.D				
Injection Date:	23-Oct-2017 16:09:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21278.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	23-Oct-2017 16:09:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	lcs				
Misc. Info.:	240-0069947-004				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

First Level Reviewer: macenczaks Date: 23-Oct-2017 16:43:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.94	100.68

Manual Integration/User Assign Peak Report

TestAmerica Canton

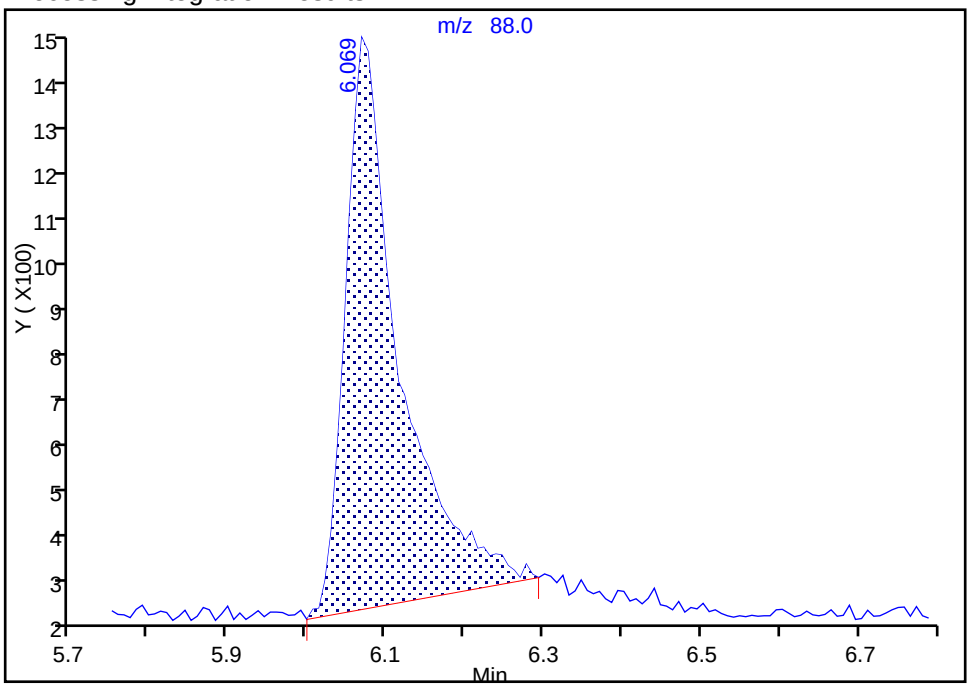
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21278.D				
Injection Date:	23-Oct-2017 16:09:30	Instrument ID:	A3UX2		
Lims ID:	LCS				
Client ID:					
Operator ID:	002808	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

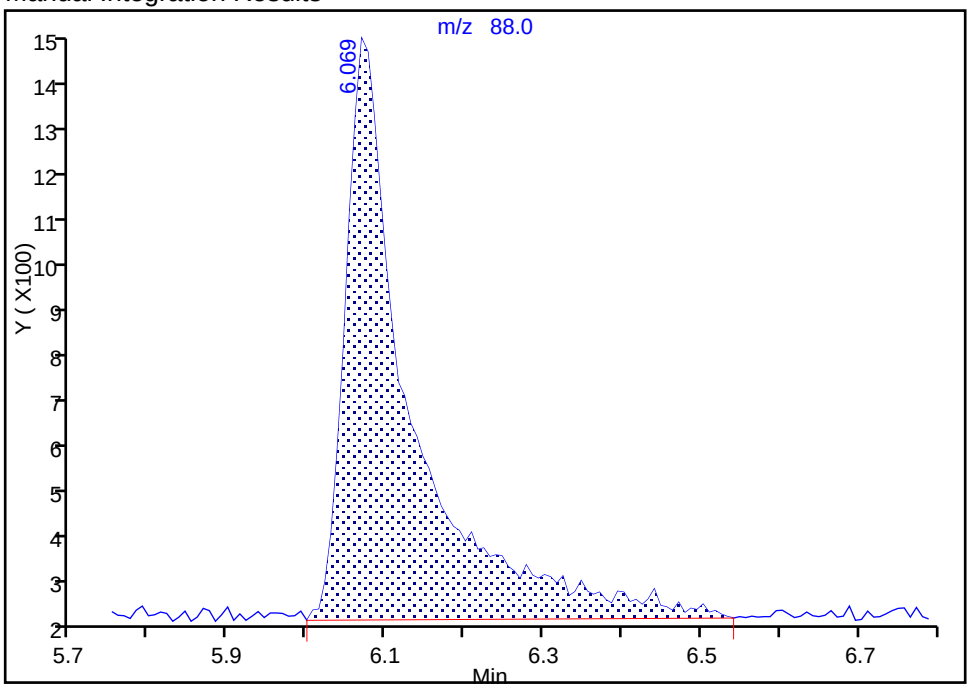
Processing Integration Results

RT: 6.07
Area: 5963
Amount: 8.972351
Amount Units: ug/l



Manual Integration Results

RT: 6.07
Area: 7389
Amount: 11.118012
Amount Units: ug/l



Reviewer: macenczaks, 23-Oct-2017 16:42:40

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917 MS
Lab Sample ID: 500-136029-1 MS
Matrix: Water
Lab File ID: X21282.D
Analysis Method: 8260B SIM
Date Collected: 10/19/2017 16:04
Sample wt/vol: 15(mL)
Date Analyzed: 10/23/2017 17:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300228
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	9.69		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21282.D				
Lims ID:	500-136029-C-1 MS				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	MS				
Inject. Date:	23-Oct-2017 17:47:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-c-1 ms				
Misc. Info.:	240-006990				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: macenczaks		Date:	24-Oct-2017 09:06:17		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.166	-0.001	100	1829692	8.88	9.19	
* 7 Fluorobenzene	96	4.761	4.759	0.002	100	5235464	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	89	113461	177.7	177.7	
8 1,4-Dioxane	88	6.069	6.069	0.000	93	6674	10.0	9.69	

Reagents:

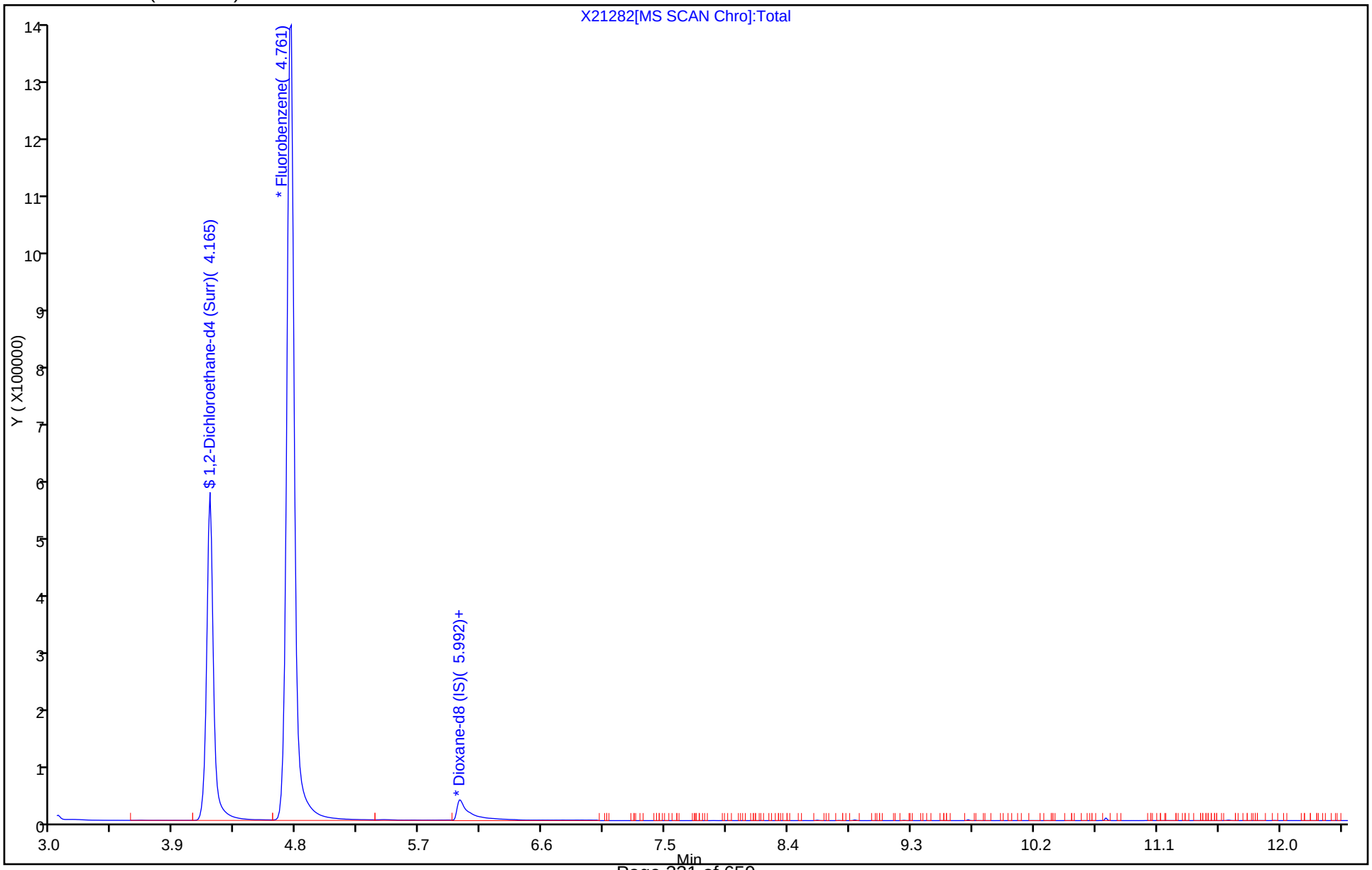
vmdiox_spike_00123	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 24-Oct-2017 09:22:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21282.D				
Injection Date:	23-Oct-2017 17:47:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	500-136029-C-1 MS			Worklist Smp#:	8
Client ID:	OMW2D-GW-10/19/17				
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21282.D				
Lims ID:	500-136029-C-1 MS				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	MS				
Inject. Date:	23-Oct-2017 17:47:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-c-1 ms				
Misc. Info.:	240-006990				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				

First Level Reviewer: macenczaks Date: 24-Oct-2017 09:06:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	9.19	103.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MSD | Lab Sample ID: 500-136029-1 MSD

Matrix: Water | Lab File ID: X21283.D

Analysis Method: 8260B SIM | Date Collected: 10/19/2017 16:04

Sample wt/vol: 15(mL) | Date Analyzed: 10/23/2017 18:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300228 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	10.5		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21283.D				
Lims ID:	500-136029-A-1 MSD				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	MSD				
Inject. Date:	23-Oct-2017 18:12:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-a-1 msd				
Misc. Info.:	240-0069947-009				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: macenczaks		Date:	24-Oct-2017 09:07:10		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.166	0.000	100	1778194	8.88	9.11	
* 7 Fluorobenzene	96	4.760	4.759	0.001	100	5131974	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	-0.001	89	107866	177.7	177.7	
8 1,4-Dioxane	88	6.076	6.069	0.007	95	6895	10.0	10.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

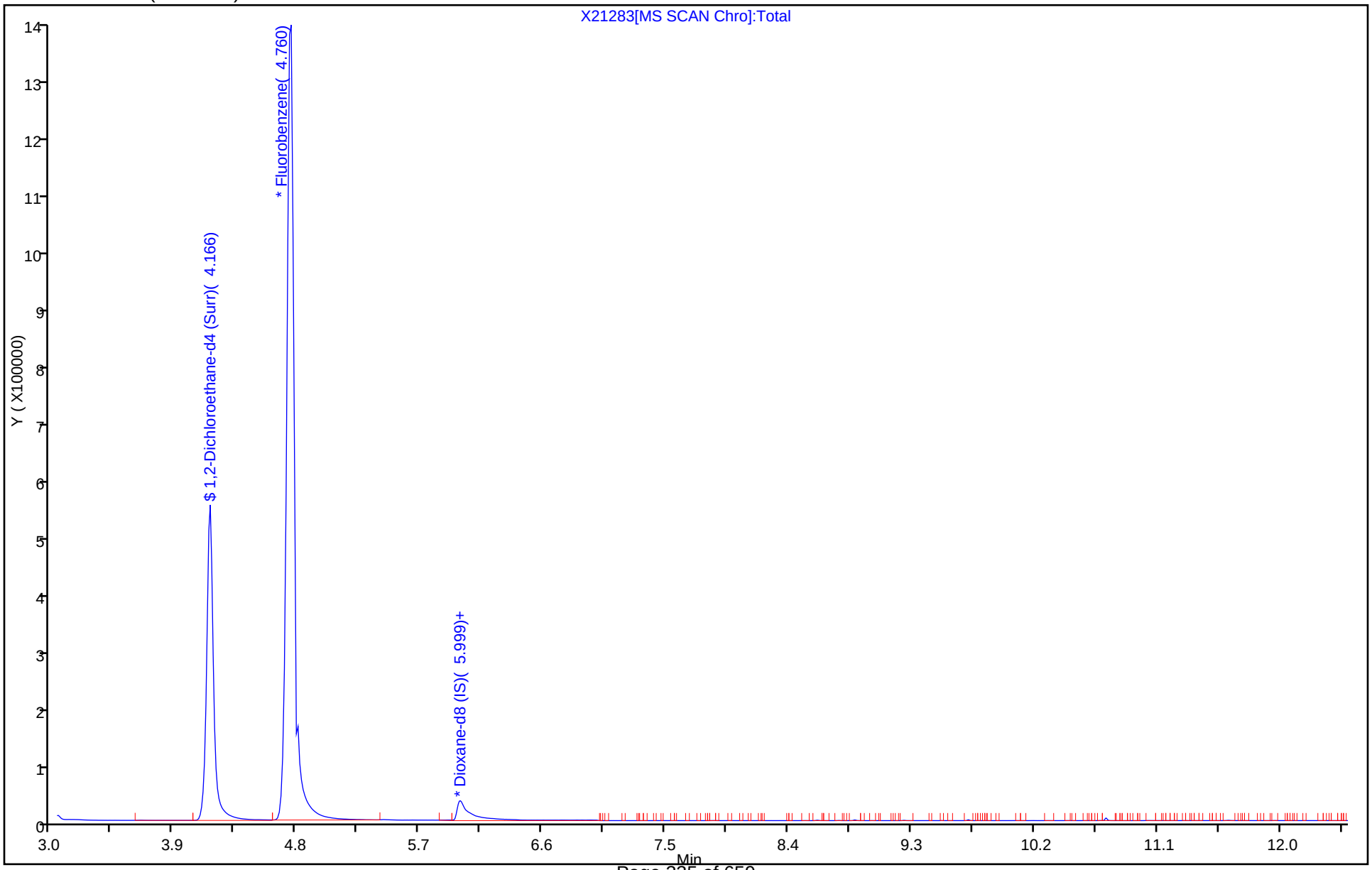
vmdiox_spike_00123	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 24-Oct-2017 09:22:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21283.D				
Injection Date:	23-Oct-2017 18:12:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	500-136029-A-1 MSD			Worklist Smp#:	9
Client ID:	OMW2D-GW-10/19/17				
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21283.D				
Lims ID:	500-136029-A-1 MSD				
Client ID:	OMW2D-GW-10/19/17				
Sample Type:	MSD				
Inject. Date:	23-Oct-2017 18:12:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136029-a-1 msd				
Misc. Info.:	240-0069947-009				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	24-Oct-2017 09:21:44	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK009	

First Level Reviewer: macenczaks Date: 24-Oct-2017 09:07:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	9.11	102.59

Manual Integration/User Assign Peak Report

TestAmerica Canton

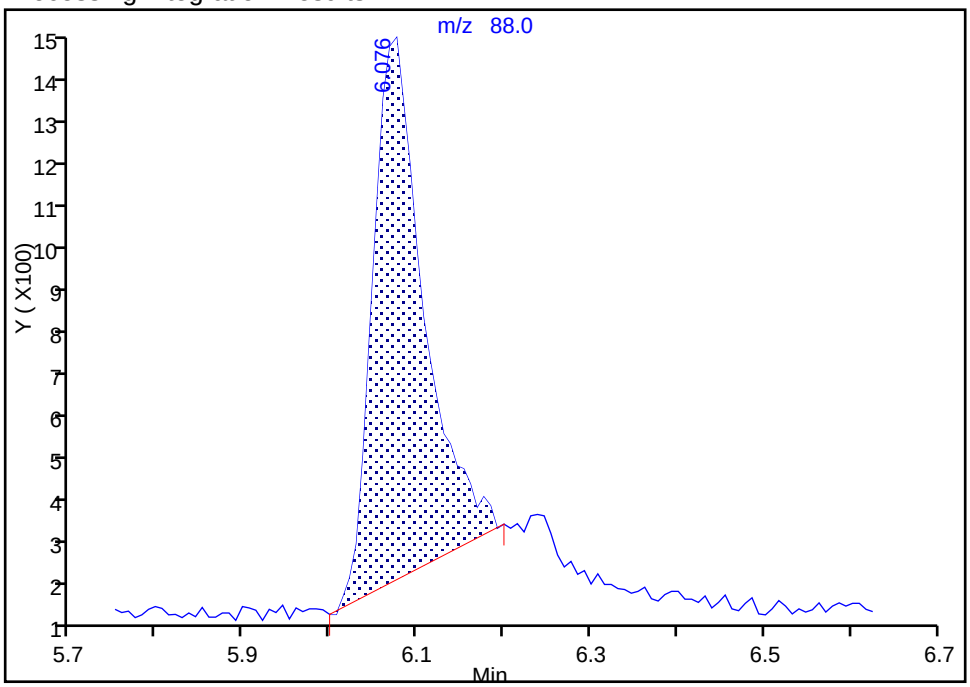
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171023-69947.b\X21283.D				
Injection Date:	23-Oct-2017 18:12:30	Instrument ID:	A3UX2		
Lims ID:	500-136029-A-1 MSD				
Client ID:	OMW2D-GW-10/19/17				
Operator ID:	002808	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

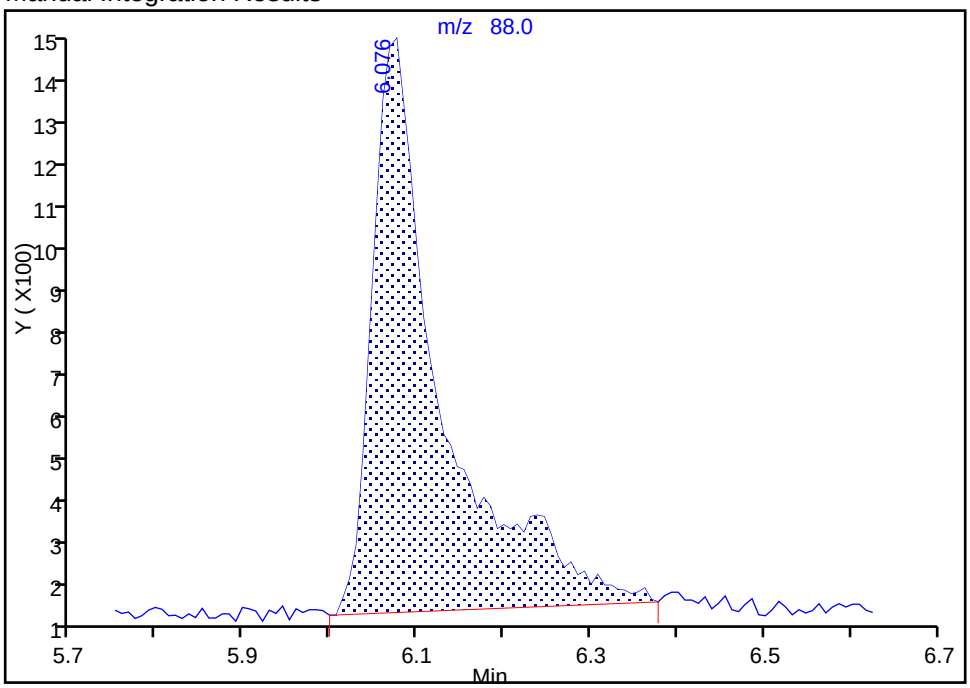
Processing Integration Results

RT: 6.08
Area: 4830
Amount: 7.373878
Amount Units: ug/l



Manual Integration Results

RT: 6.08
Area: 6895
Amount: 10.526479
Amount Units: ug/l



Reviewer: macenczaks, 24-Oct-2017 09:06:35

Audit Action: Manually Integrated Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: A3UX2 Start Date: 10/06/2017 14:32

Analysis Batch Number: 297993 End Date: 10/06/2017 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-297993/1		10/06/2017 14:32	1	BFBX2077.D	ZB-624 0.53(mm)
IC 240-297993/3		10/06/2017 15:17	1	X21217.D	ZB-624 0.53(mm)
IC 240-297993/4		10/06/2017 15:42	1	X21218.D	ZB-624 0.53(mm)
IC 240-297993/5		10/06/2017 16:07	1	X21219.D	ZB-624 0.53(mm)
ICIS 240-297993/6		10/06/2017 16:31	1	X21220.D	ZB-624 0.53(mm)
IC 240-297993/7		10/06/2017 16:56	1	X21221.D	ZB-624 0.53(mm)
IC 240-297993/8		10/06/2017 17:20	1	X21222.D	ZB-624 0.53(mm)
IC 240-297993/9		10/06/2017 17:45	1	X21223.D	ZB-624 0.53(mm)
IC 240-297993/10		10/06/2017 18:10	1	X21224.D	ZB-624 0.53(mm)
ICV 240-297993/11		10/06/2017 18:35	1	X21225.D	ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:00	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:25	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:49	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 20:14	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 20:39	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 21:04	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 21:28	1		ZB-624 0.53(mm)

8260B SIM

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: A3UX2 Start Date: 10/23/2017 14:59

Analysis Batch Number: 300228 End Date: 10/24/2017 02:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-300228/1		10/23/2017 14:59	1	BFBX2082.D	ZB-624 0.53(mm)
CCVIS 240-300228/3		10/23/2017 15:44	1	X21277.D	ZB-624 0.53(mm)
LCS 240-300228/4		10/23/2017 16:09	1	X21278.D	ZB-624 0.53(mm)
MB 240-300228/5		10/23/2017 16:33	1	X21279.D	ZB-624 0.53(mm)
ZZZZZ		10/23/2017 16:58	1		ZB-624 0.53(mm)
500-136029-1		10/23/2017 17:22	1	X21281.D	ZB-624 0.53(mm)
500-136029-1 MS		10/23/2017 17:47	1	X21282.D	ZB-624 0.53(mm)
500-136029-1 MSD		10/23/2017 18:12	1	X21283.D	ZB-624 0.53(mm)
ZZZZZ		10/23/2017 18:37	1		ZB-624 0.53(mm)
ZZZZZ		10/23/2017 21:08	1		ZB-624 0.53(mm)
ZZZZZ		10/23/2017 21:32	1		ZB-624 0.53(mm)
ZZZZZ		10/23/2017 21:58	1		ZB-624 0.53(mm)
ZZZZZ		10/23/2017 22:23	1		ZB-624 0.53(mm)
ZZZZZ		10/24/2017 00:02	1		ZB-624 0.53(mm)
ZZZZZ		10/24/2017 00:27	1		ZB-624 0.53(mm)
ZZZZZ		10/24/2017 01:17	2		ZB-624 0.53(mm)
ZZZZZ		10/24/2017 01:41	1		ZB-624 0.53(mm)
ZZZZZ		10/24/2017 02:06	1		ZB-624 0.53(mm)

8260B SIM

Method RSK-175

Dissolved Gases (GC) by Method RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TFE1 #
OMW2D-GW-101917	500-136029-1	84
	MB 240-300627/4	88
	LCS 240-300627/5	86
OMW2D-GW-101917 MS	500-136029-1 MS	83
OMW2D-GW-101917 MSD	500-136029-1 MSD	83

	QC LIMITS
TFE = 1,1,1-Trifluoroethane	60-140

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RSK1025005.D

Lab ID: LCS 240-300627/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	285	279	98	80-120	
Ethane	536	557	104	80-120	
Ethylene	501	517	103	80-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RSK1025009.D

Lab ID: 500-136029-1 MS Client ID: OMW2D-GW-101917 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	285	0.46 J	278	97	50-150	
Ethane	536	ND	546	102	50-150	
Ethylene	501	ND	510	102	50-150	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RSK1025010.D

Lab ID: 500-136029-1 MSD Client ID: OMW2D-GW-101917 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	285	275	96	1	30	50-150	
Ethane	536	544	101	0	30	50-150	
Ethylene	501	506	101	1	30	50-150	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: MB 240-300627/4

Matrix: Water Date Extracted:

Lab File ID:(1) RSK1025004.D Lab File ID:(2)

Date Analyzed:(1) 10/25/2017 20:02 Date Analyzed:(2)

Instrument ID:(1) ZPID Instrument ID:(2)

GC Column:(1) HP-PLOT/Q ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-300627/5	10/25/2017 20:19	
OMW2D-GW-101917	500-136029-1	10/25/2017 21:10	
OMW2D-GW-101917 MS	500-136029-1 MS	10/25/2017 21:27	
OMW2D-GW-101917 MSD	500-136029-1 MSD	10/25/2017 21:44	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Sample No.: CCVRT 240-300627/3 Date Analyzed: 10/25/2017 19:45

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm)

Lab File ID (Standard): RSK1025003.D Heated Purge: (Y/N) N

Calibration ID: 41867

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-300627/3		10/25/2017 19:45	RSK1025003.D	3.34		
MB 240-300627/4		10/25/2017 20:02	RSK1025004.D	3.35		
LCS 240-300627/5		10/25/2017 20:19	RSK1025005.D	3.35		
500-136029-1	OMW2D-GW-101917	10/25/2017 21:10	RSK1025008.D	3.35		
500-136029-1 MS	OMW2D-GW-101917 MS	10/25/2017 21:27	RSK1025009.D	3.34		
500-136029-1 MSD	OMW2D-GW-101917 MSD	10/25/2017 21:44	RSK1025010.D	3.35		
CCV 240-300627/19		10/26/2017 00:17	RSK1025019.D	3.35		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII RSK-175

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136029-1
SDG No.:
Client Sample ID: OMW2D-GW-101917
Lab Sample ID: 500-136029-1
Matrix: Water
Lab File ID: RSK1025008.D
Analysis Method: RSK-175
Date Collected: 10/19/2017 16:04
Sample wt/vol: 23(mL)
Date Analyzed: 10/25/2017 21:10
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: HP-PLOT/Q ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300627
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.46	J	1.0	0.17
74-84-0	Ethane	ND		1.0	0.10
74-85-1	Ethylene	ND		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	84		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025008.D
Lims ID: 500-136029-C-1
Client ID: OMW2D-GW-101917
Sample Type: Client
Inject. Date: 25-Oct-2017 21:10:48 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-008
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Methane					
1.185	1.184	0.001	3170	0.4553	
2 Ethylene					
	1.881			ND	
4 Ethane					
	2.201			ND	
$ 5 1,1,1-Trifluoroethane					
3.348	3.344	0.004	24234366	8215.0	

Reagents:

SARSKSURR_00010 Amount Added: 20.00 Units: mL Run Reagent

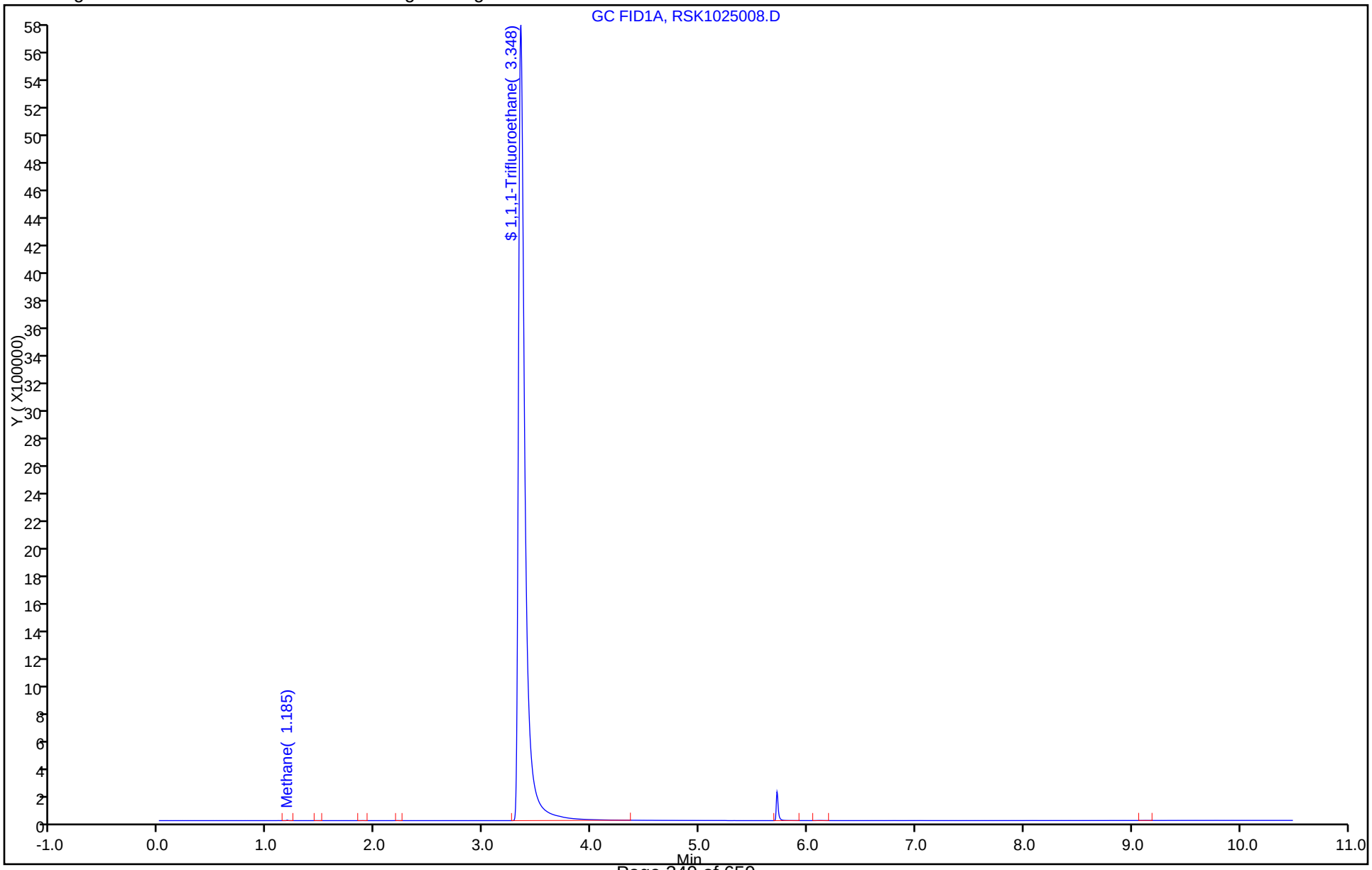
Report Date: 26-Oct-2017 06:59:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025008.D

Injection Date:	25-Oct-2017 21:10:48	Instrument ID:	ZPID	Operator ID:	
Lims ID:	500-136029-C-1	Lab Sample ID:	240-136029-1	Worklist Smp#:	8
Client ID:	OMW2D-GW-101917				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025008.D
Lims ID: 500-136029-C-1
Client ID: OMW2D-GW-101917
Sample Type: Client
Inject. Date: 25-Oct-2017 21:10:48 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-008
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9730.4	8215.0	84.43

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.186	1.185	1.186	1.184	1.185	1.184					1.134 - 1.234	1.185
Ethylene	1.886	1.885	1.886	1.881	1.885	1.877					1.827 - 1.927	1.883
Acetylene	1.999	1.999	2.000	1.994	1.999	1.991					1.941 - 2.041	1.997
Ethane	2.206	2.205	2.210	2.204	2.205	2.194					1.994 - 2.394	2.204
Propane	4.556	4.555	4.556	4.551	4.552	4.527					4.477 - 4.577	4.550
1,1,1-Trifluoroethane	3.353	3.352	3.353	3.348	3.345						3.253 - 3.453	3.350

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 500-136029-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Methane	8358.5 6728.4	6638.0 6649.2	6527.1	6873.9	Ave		6962.52724				10.0		20.0			
Ethylene	6446.8 6537.9	6223.7 6385.2	6289.9	6549.2	Ave		6405.46217				2.1		20.0			
Acetylene	2955.9 4235.1	3209.0 4170.4	3492.2	3951.4	Ave		3668.98974				14.4		30.0			
Ethane	6724.8 6799.6	6335.3 6629.9	6411.6	6769.4	Ave		6611.75812				2.9		20.0			
Propane	6256.3 6976.4	6176.0 6910.7	6465.6	6820.1	Ave		6600.83907				5.3		20.0			
1,1,1-Trifluoroethane	2924.6 2878.1	3082.2	2885.3	2979.7	Ave		2950.01861				2.9		30.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 500-136029-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methane	Ave	2384 28438455	13253	65157	686192	2877720	0.285 4277	2.00	9.98	99.8	428
Ethylene	Ave	3229 47964177	21821	110265	1148104	4911089	0.501 7512	3.51	17.5	175	751
Acetylene	Ave	1370 28985079	10411	56649	640992	2943469	0.463 6950	3.24	16.2	162	695
Ethane	Ave	3608 53347403	23793	120399	1271181	5471300	0.537 8047	3.76	18.8	188	805
Propane	Ave	4918 81472393	33984	177889	1876410	8224688	0.786 11789	5.50	27.5	275	1179
1,1,1-Trifluoroethane	Ave	875652	1614969	7558994	15612644	32314773	299	524	2620	5240	11228

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Oct-2017 12:40:31 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-003
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:02 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

First Level Reviewer: matthewsb Date: 16-Oct-2017 07:07:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.184	0.002	2384	0.2852	0.3424	
2 Ethylene						
1.886	1.877	0.009	3229	0.5009	0.5041	
3 Acetylene						
1.999	1.991	0.008	1370	0.4635	0.3734	
4 Ethane						
2.206	2.194	0.012	3608	0.5365	0.5457	
$ 5 1,1,1-Trifluoroethane						
3.353	3.353	0.000	875652	299.4	296.8	
6 Propane						M
4.556	4.527	0.029	4918	0.7861	0.7451	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SARSKLOWCAL_00009 Amount Added: 10.00 Units: uL
SAICALSURR_00012 Amount Added: 40.00 Units: uL

Report Date: 16-Oct-2017 07:09:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D

Injection Date: 15-Oct-2017 12:40:31 Instrument ID: ZPID Operator ID:

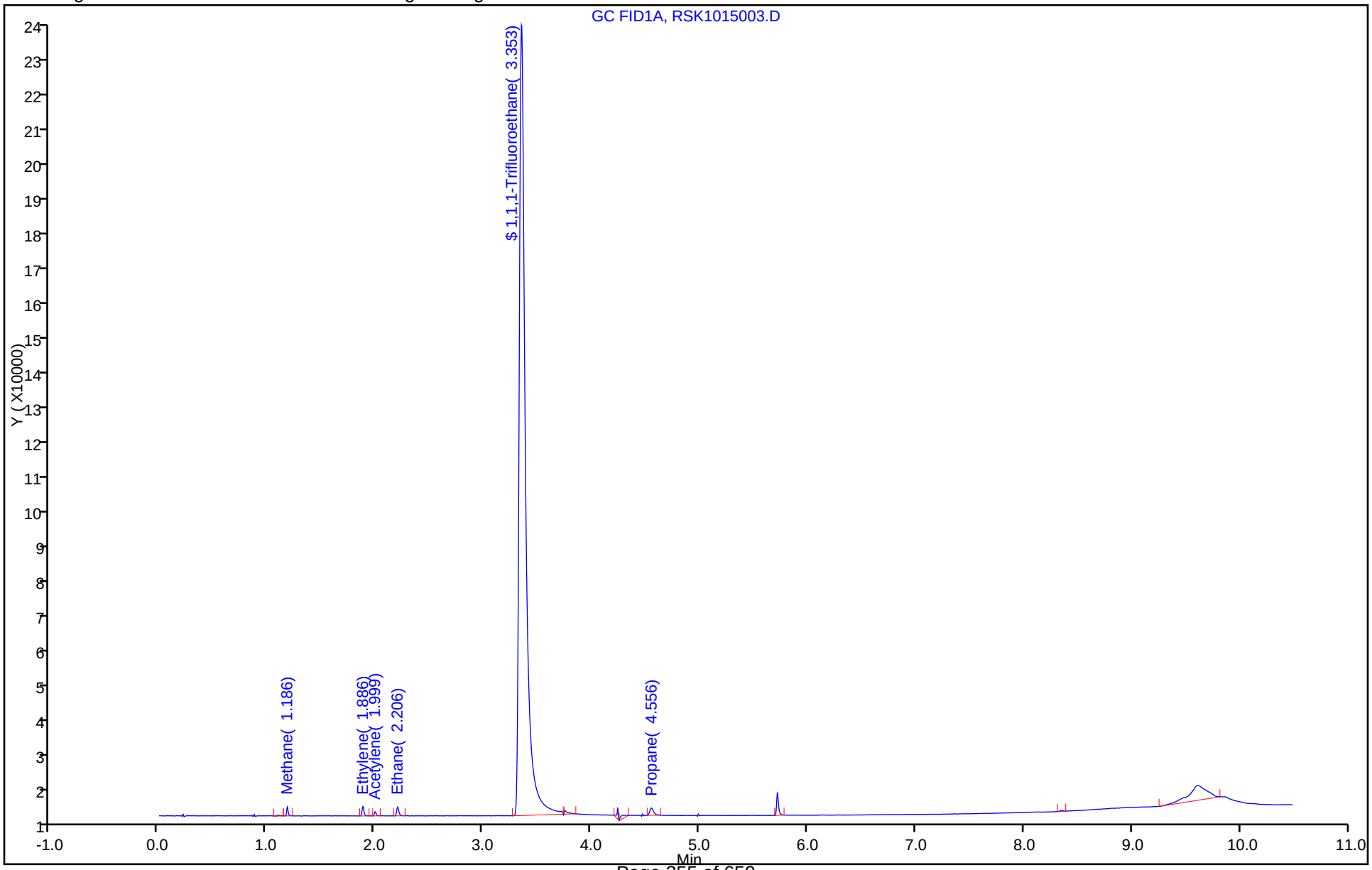
Lims ID: STD1 Worklist Smp#: 3

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Canton

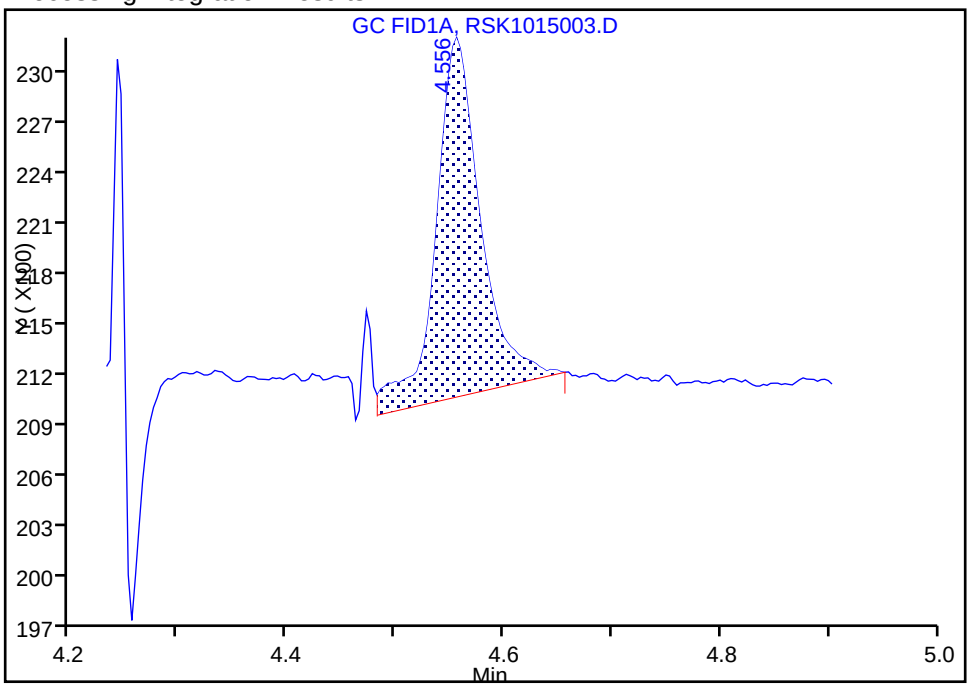
Data File:	\\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D				
Injection Date:	15-Oct-2017 12:40:31	Instrument ID:	ZPID		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		
Column:		Detector	GC FID1A		

6 Propane, CAS: 74-98-6

Signal: 1

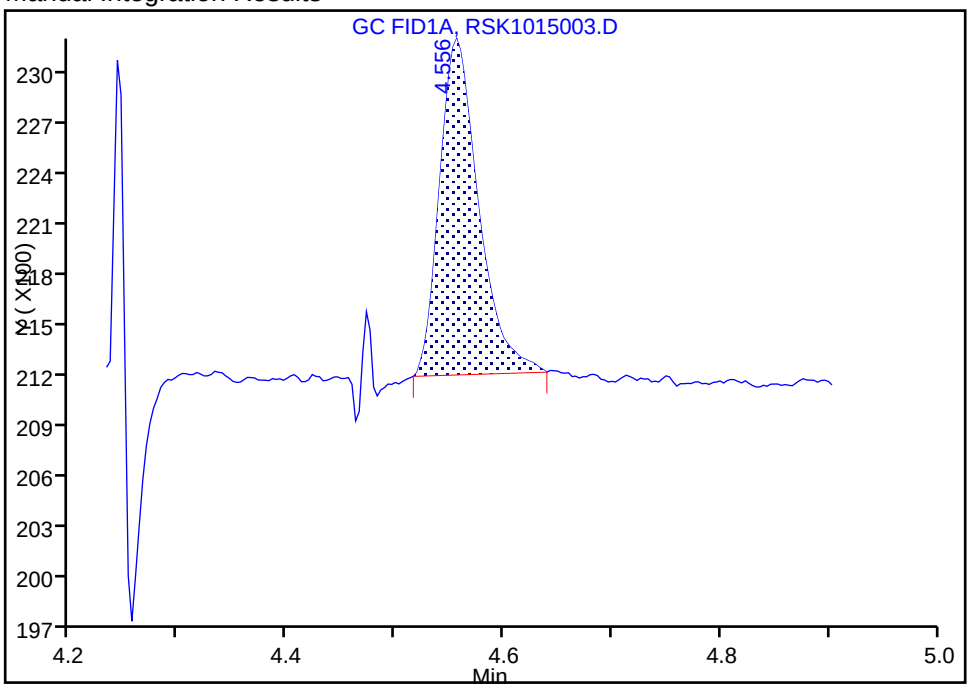
Processing Integration Results

RT: 4.56
Area: 6065
Amount: 0.881602
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 4918
Amount: 0.745057
Amount Units: ug/l



Reviewer: matthewsb, 16-Oct-2017 07:07:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Oct-2017 12:57:39 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-004
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:03 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

First Level Reviewer: matthewsb Date: 16-Oct-2017 07:08:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.185	1.184	0.001	13253	2.00	1.90	
2 Ethylene						
1.885	1.877	0.008	21821	3.51	3.41	
3 Acetylene						
1.999	1.991	0.008	10411	3.24	2.84	
4 Ethane						
2.205	2.194	0.011	23793	3.76	3.60	
$ 5 1,1,1-Trifluoroethane						
3.352	3.353	-0.001	1614969	524.0	547.4	
6 Propane						M
4.555	4.527	0.028	33984	5.50	5.15	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SARSKLOWCAL_00009 Amount Added: 70.00 Units: uL
SAICALSURR_00012 Amount Added: 70.00 Units: uL

Report Date: 16-Oct-2017 07:09:03 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D

Injection Date: 15-Oct-2017 12:57:39 Instrument ID: ZPID Operator ID:

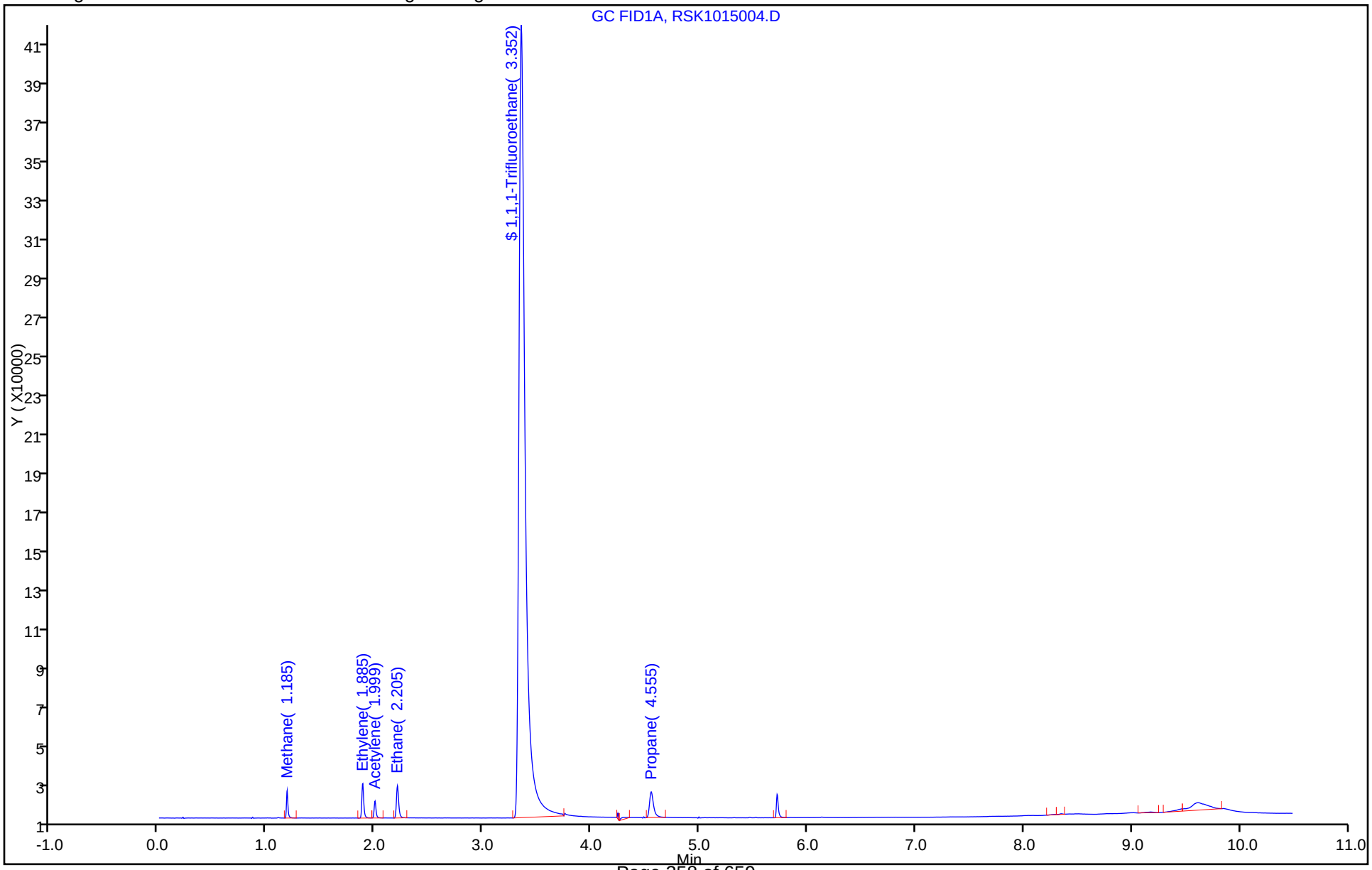
Lims ID: STD2 Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Canton

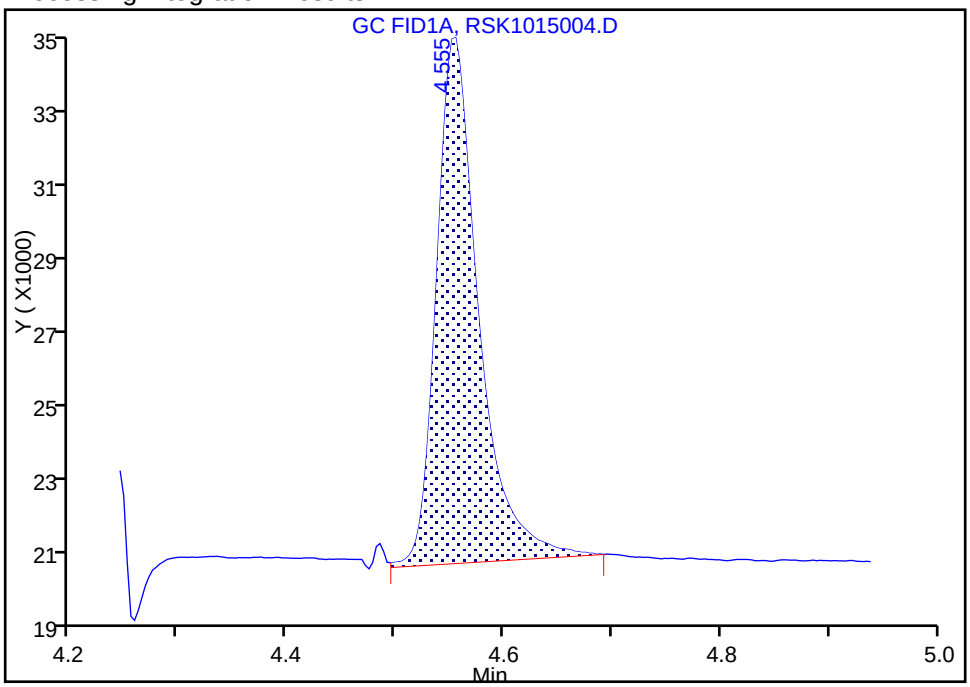
Data File:	\\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D				
Injection Date:	15-Oct-2017 12:57:39	Instrument ID:	ZPID		
Lims ID:	STD2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		
Column:		Detector	GC FID1A		

6 Propane, CAS: 74-98-6

Signal: 1

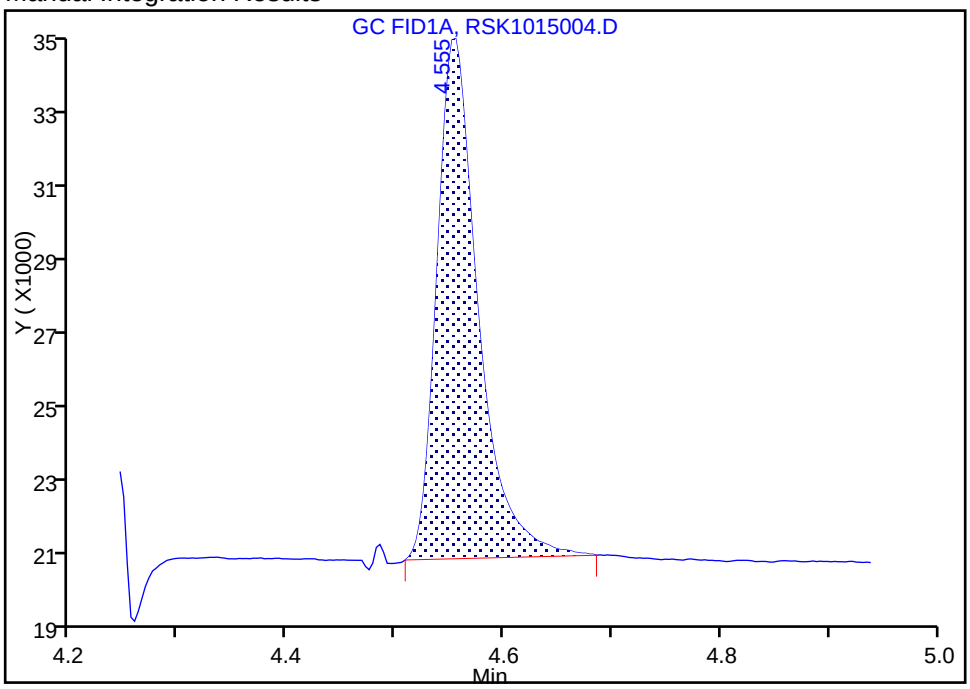
Processing Integration Results

RT: 4.56
Area: 35156
Amount: 5.297500
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 33984
Amount: 5.148436
Amount Units: ug/l



Reviewer: matthewsb, 16-Oct-2017 07:08:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015005.D
Lims ID: STD3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 15-Oct-2017 13:14:49 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-005
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:04 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.186	0.000	65157	9.98	9.36	
2 Ethylene						
1.886	1.886	0.000	110265	17.5	17.2	
3 Acetylene						
2.000	2.000	0.000	56649	16.2	15.4	
4 Ethane						
2.210	2.210	0.000	120399	18.8	18.2	
$ 5 1,1,1-Trifluoroethane						
3.353	3.353	0.000	7558994	2619.8	2562.4	
6 Propane						
4.556	4.556	0.000	177889	27.5	26.9	

Reagents:

SARSKLOWCAL_00009 Amount Added: 350.00 Units: uL
SAICALSURR_00012 Amount Added: 350.00 Units: uL

Report Date: 16-Oct-2017 07:09:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015005.D

Injection Date: 15-Oct-2017 13:14:49 Instrument ID: ZPID Operator ID:

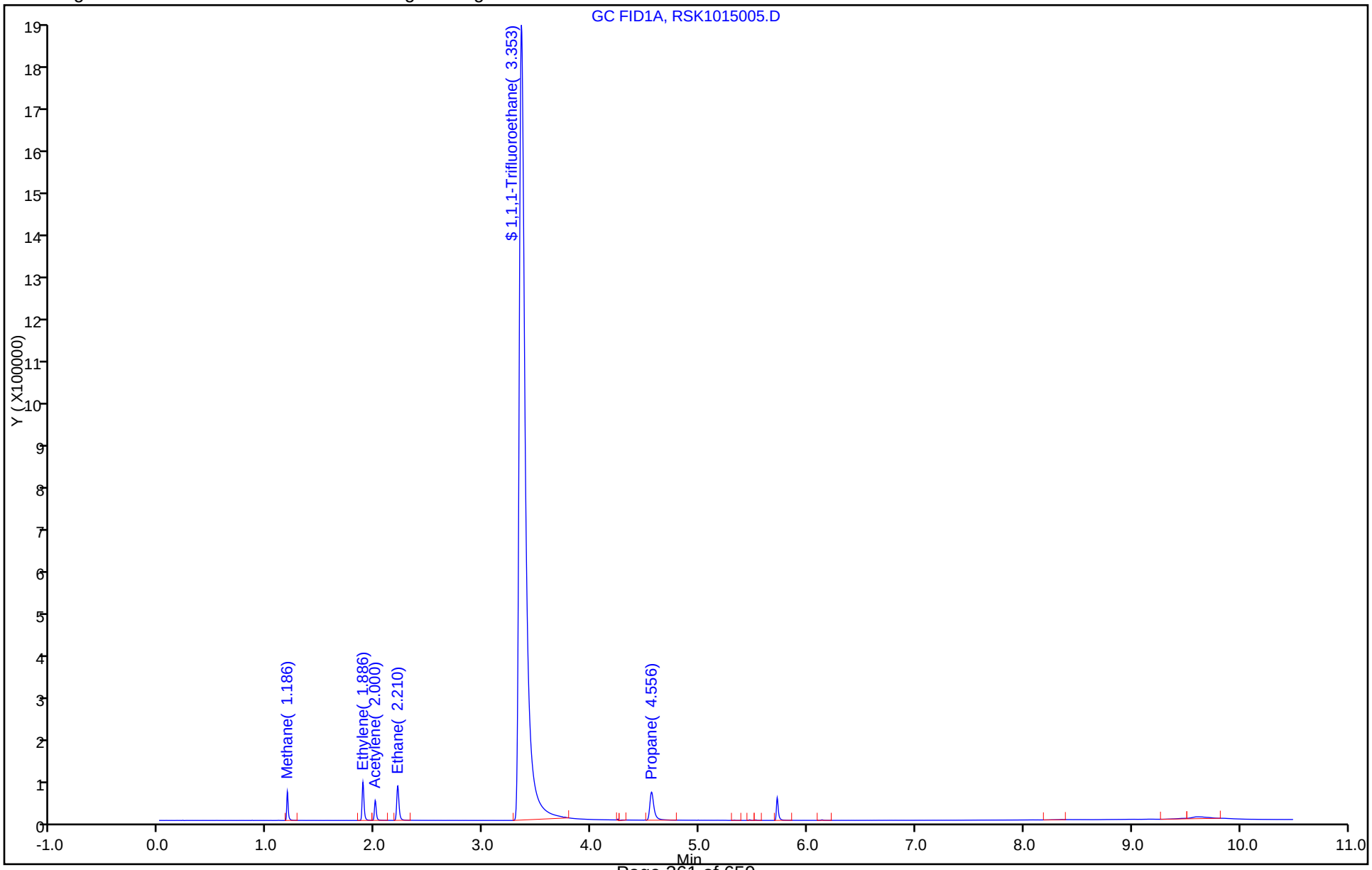
Lims ID: STD3 Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015006.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Oct-2017 13:32:01 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-006
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:04 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.186	-0.002	686192	99.8	98.6	
2 Ethylene						
1.881	1.886	-0.005	1148104	175.3	179.2	
3 Acetylene						
1.994	2.000	-0.006	640992	162.2	174.7	
4 Ethane						
2.204	2.210	-0.006	1271181	187.8	192.3	
$ 5 1,1,1-Trifluoroethane						
3.348	3.353	-0.005	15612644	5239.6	5292.4	
6 Propane						
4.551	4.556	-0.005	1876410	275.1	284.3	

Reagents:

SARSKLOWCAL_00009 Amount Added: 3.50 Units: mL
SAICALSURR_00012 Amount Added: 0.70 Units: mL

Report Date: 16-Oct-2017 07:09:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015006.D

Injection Date: 15-Oct-2017 13:32:01 Instrument ID: ZPID Operator ID:

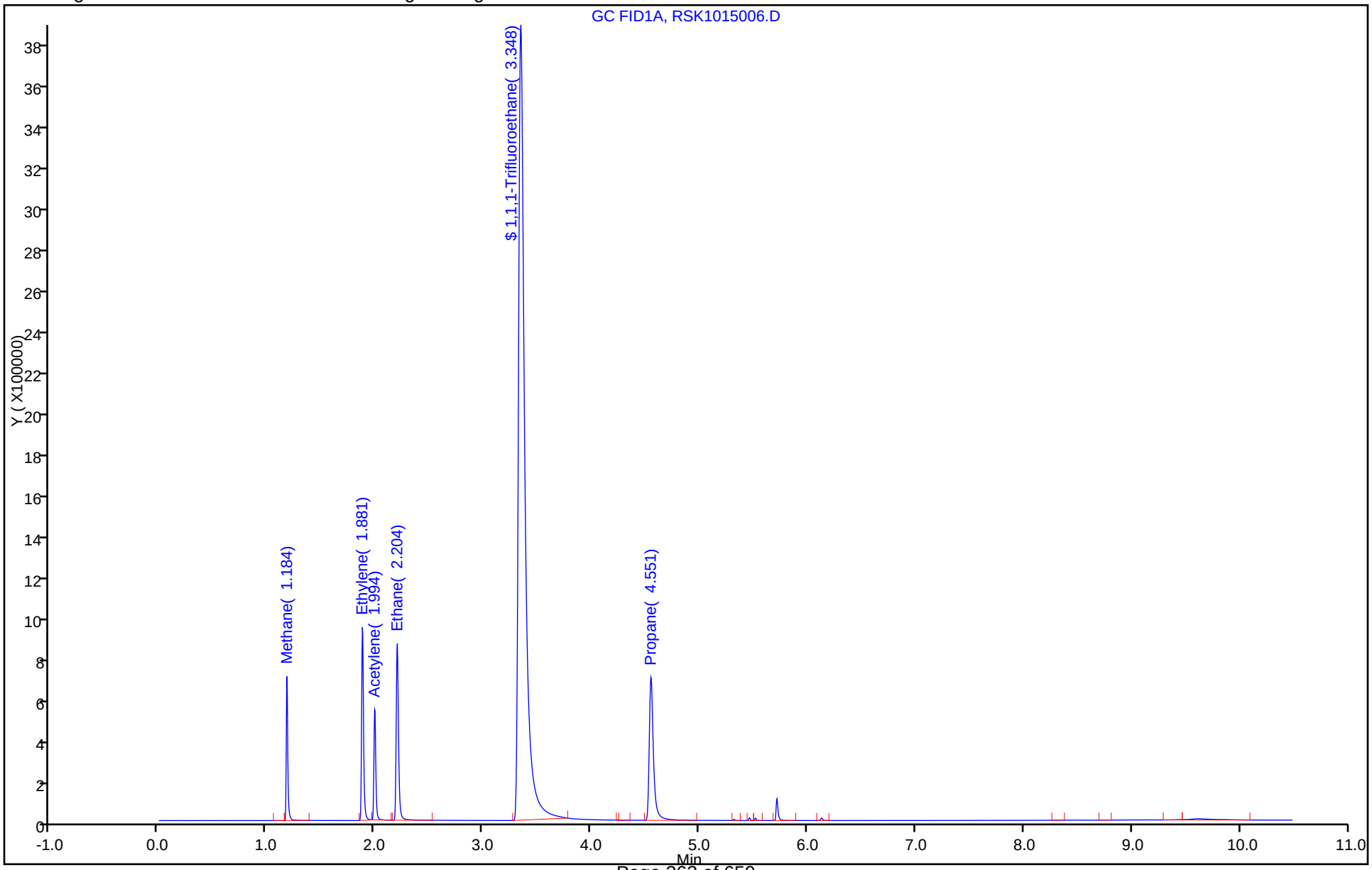
Lims ID: STD4 Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015007.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Oct-2017 13:49:13 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-007
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:05 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.185	1.186	-0.001	2877720	427.7	413.3	
2 Ethylene						
1.885	1.886	-0.001	4911089	751.2	766.7	
3 Acetylene						
1.999	2.000	-0.001	2943469	695.0	802.3	
4 Ethane						
2.205	2.210	-0.005	5471300	804.7	827.5	
$ 5 1,1,1-Trifluoroethane						
3.345	3.353	-0.008	32314773	11228	10954	
6 Propane						
4.552	4.556	-0.004	8224688	1178.9	1246.0	

Reagents:

SAICALSURR_00012 Amount Added: 1.50 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.50 Units: mL

Report Date: 16-Oct-2017 07:09:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015007.D

Injection Date: 15-Oct-2017 13:49:13 Instrument ID: ZPID Operator ID:

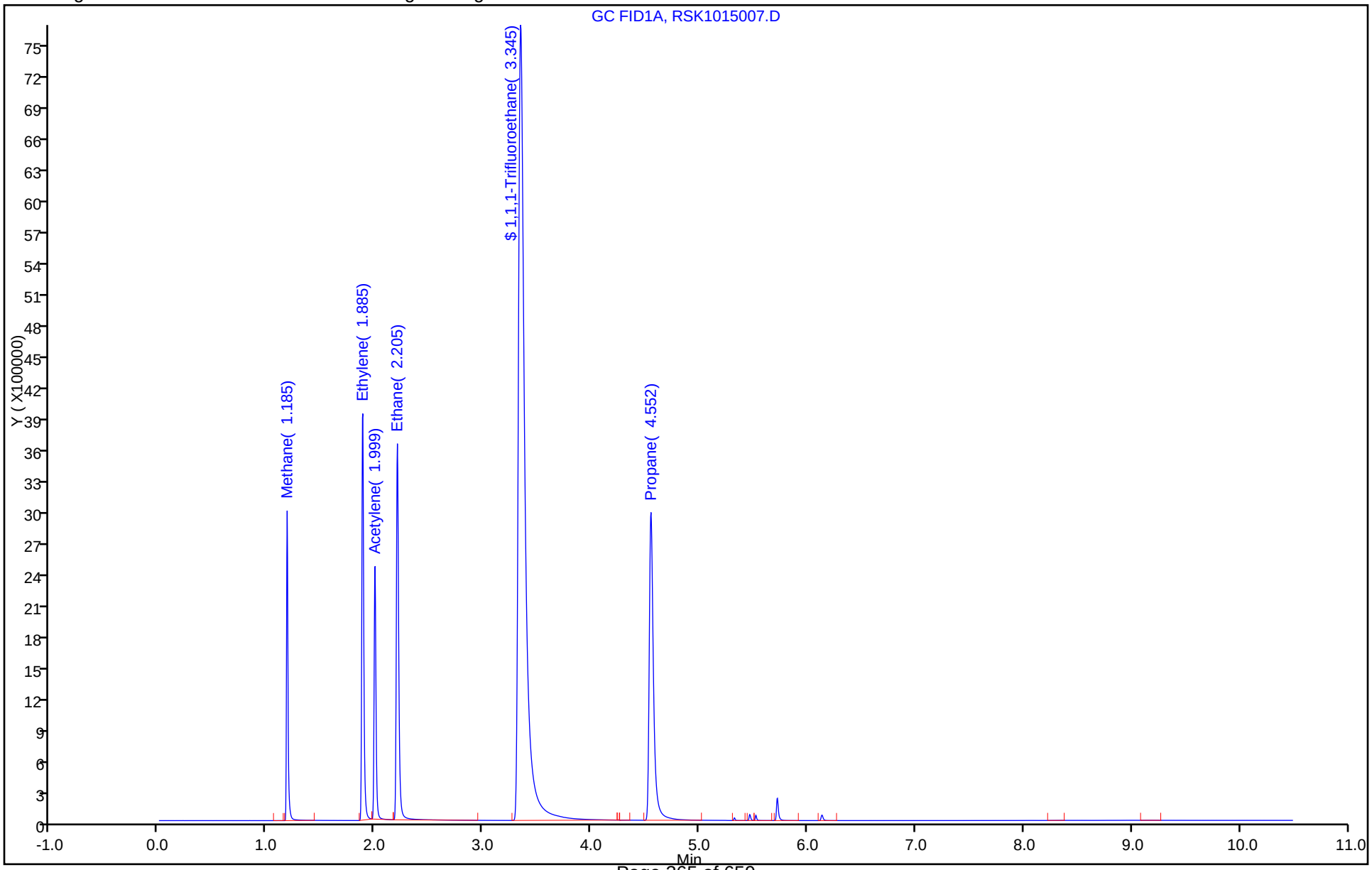
Lims ID: STD5 Worklist Smp#: 7

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Oct-2017 14:06:25 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-008
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:06 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.184	0.000	28438455	4277.0	4084.5	
2 Ethylene						
1.877	1.877	0.000	47964177	7511.7	7488.0	
3 Acetylene						
1.991	1.991	0.000	28985079	6950.2	7900.0	
4 Ethane						
2.194	2.194	0.000	53347403	8046.5	8068.6	
6 Propane						
4.527	4.527	0.000	81472393	11789	12343	

Reagents:

SARSKHIGHCALP_00008 Amount Added: 15.00 Units: mL

Report Date: 16-Oct-2017 07:09:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Injection Date: 15-Oct-2017 14:06:25 Instrument ID: ZPID Operator ID:

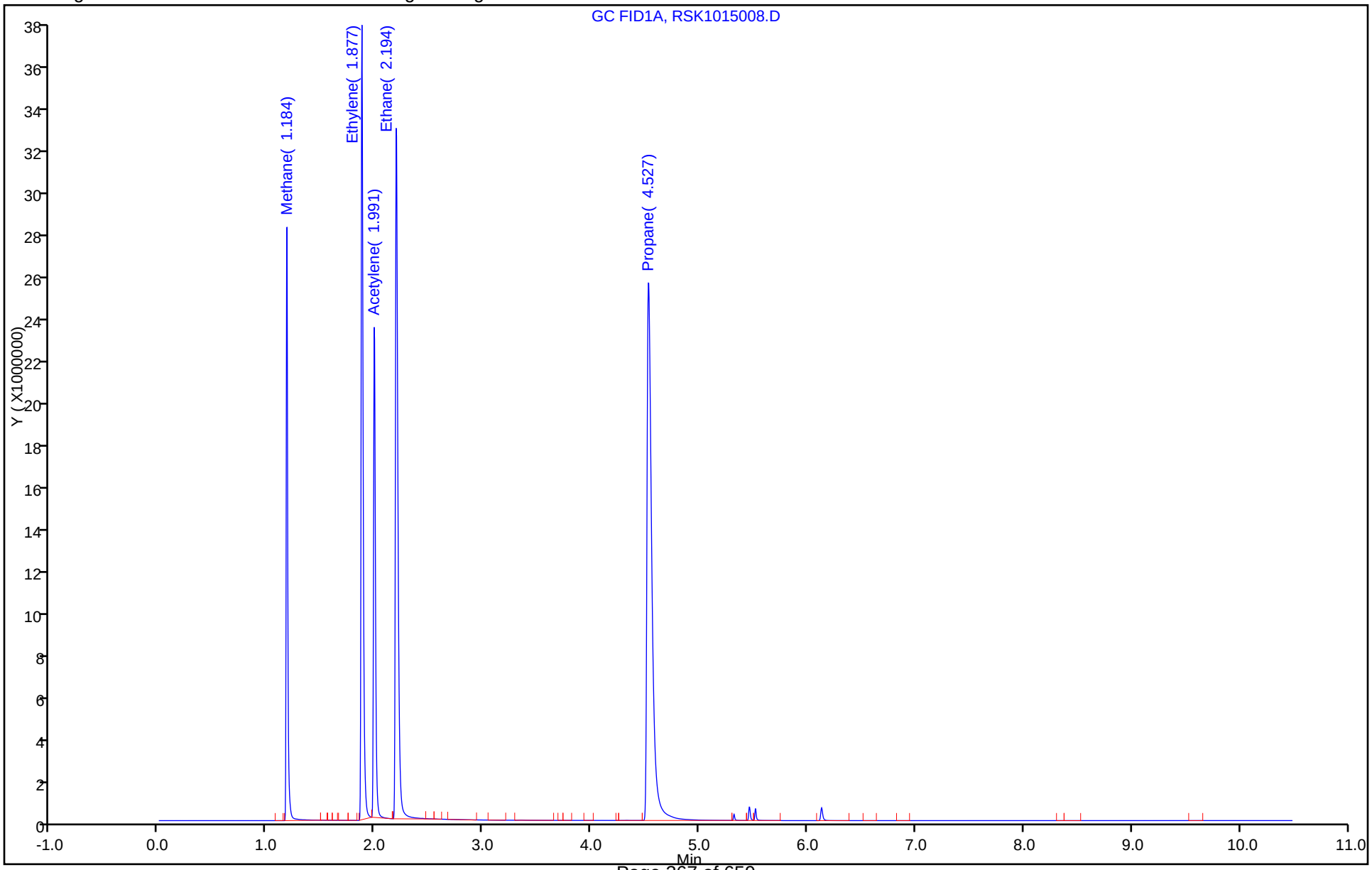
Lims ID: STD6 Worklist Smp#: 8

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 240-299071/9 Calibration Date: 10/15/2017 14:23

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1015009.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	5791		237	285	-16.8	20.0
Ethylene	Ave	6405	5491		429	501	-14.3	20.0
Acetylene	Ave	3669	3820		482	463	4.1	30.0
Ethane	Ave	6612	5531		449	536	-16.4	20.0
Propane	Ave	6601	5285		628	784	-19.9	20.0
1,1,1-Trifluoroethane	Ave	2950	2738		8580	9240	-7.2	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: ICV 240-299071/9 Calibration Date: 10/15/2017 14:23

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1015009.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethylene	1.88	1.83	1.93
Acetylene	2.00	1.94	2.04
Ethane	2.20	1.99	2.39
Propane	4.55	4.48	4.58
1,1,1-Trifluoroethane	3.35	3.25	3.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015009.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Oct-2017 14:23:37 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-009
Operator ID: Instrument ID: ZPID
Sublist:

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:12:17 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.182	1.184	-0.002	1651296	285.1	237.2	
2 Ethylene						
1.882	1.877	0.005	2750044	500.8	429.3	
3 Acetylene						
1.995	1.991	0.004	1770160	463.3	482.5	
4 Ethane						
2.202	2.194	0.008	2966772	536.4	448.7	
$ 5 1,1,1-Trifluoroethane						
3.345	3.353	-0.008	25312930	9243.9	8580.6	
6 Propane						
4.548	4.527	0.021	4142305	783.8	627.5	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSK2NDSRCE_00010 Amount Added: 1.00 Units: mL

Report Date: 16-Oct-2017 07:12:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015009.D

Injection Date: 15-Oct-2017 14:23:37 Instrument ID: ZPID Operator ID:

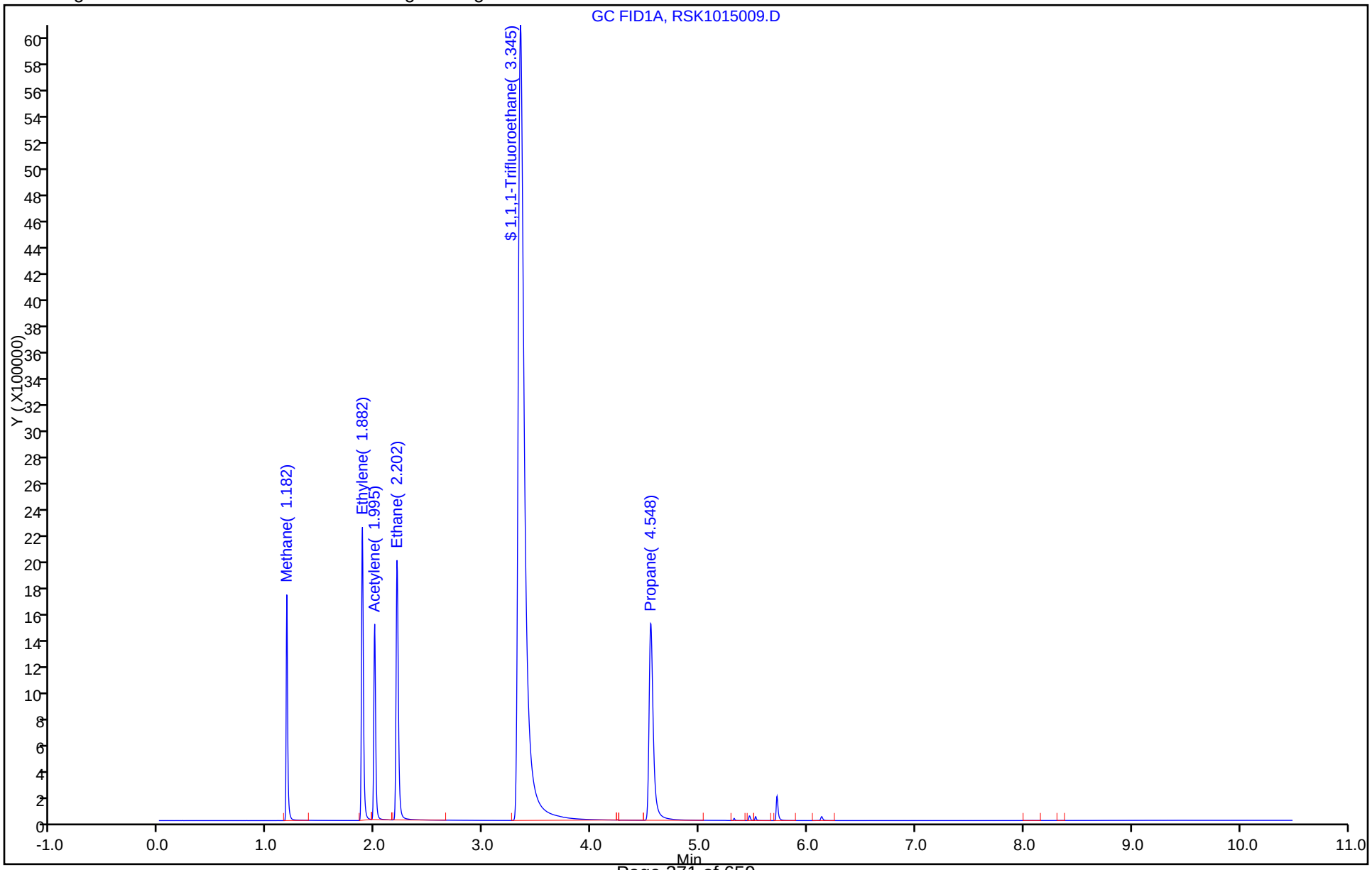
Lims ID: ICV Worklist Smp#: 9

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVRT 240-300627/3 Calibration Date: 10/25/2017 19:45

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1025003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	7133		292	285	2.4	20.0
Ethylene	Ave	6405	6929		542	501	8.2	20.0
Acetylene	Ave	3669	4447		562	463	21.2	30.0
Ethane	Ave	6612	7225		586	536	9.3	20.0
Propane	Ave	6601	7451		887	786	12.9	20.0
1,1,1-Trifluoroethane	Ave	2950	2624		8220	9240	-11.1	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCVRT 240-300627/3 Calibration Date: 10/25/2017 19:45

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1025003.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethylene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.34	3.24	3.44

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025003.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 25-Oct-2017 19:45:47 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-003
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.184	0.000	2033790	285.1	292.1	
2 Ethylene						
1.881	1.881	0.000	3469994	500.8	541.7	
3 Acetylene						
1.994	1.994	0.000	2060556	463.3	561.6	
4 Ethane						
2.201	2.201	0.000	3875598	536.4	586.2	
$ 5 1,1,1-Trifluoroethane						
3.344	3.344	0.000	24252811	9243.9	8221.2	
6 Propane						
4.547	4.547	0.000	5855772	786.0	887.1	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 26-Oct-2017 06:59:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025003.D

Injection Date: 25-Oct-2017 19:45:47 Instrument ID: ZPID Operator ID:

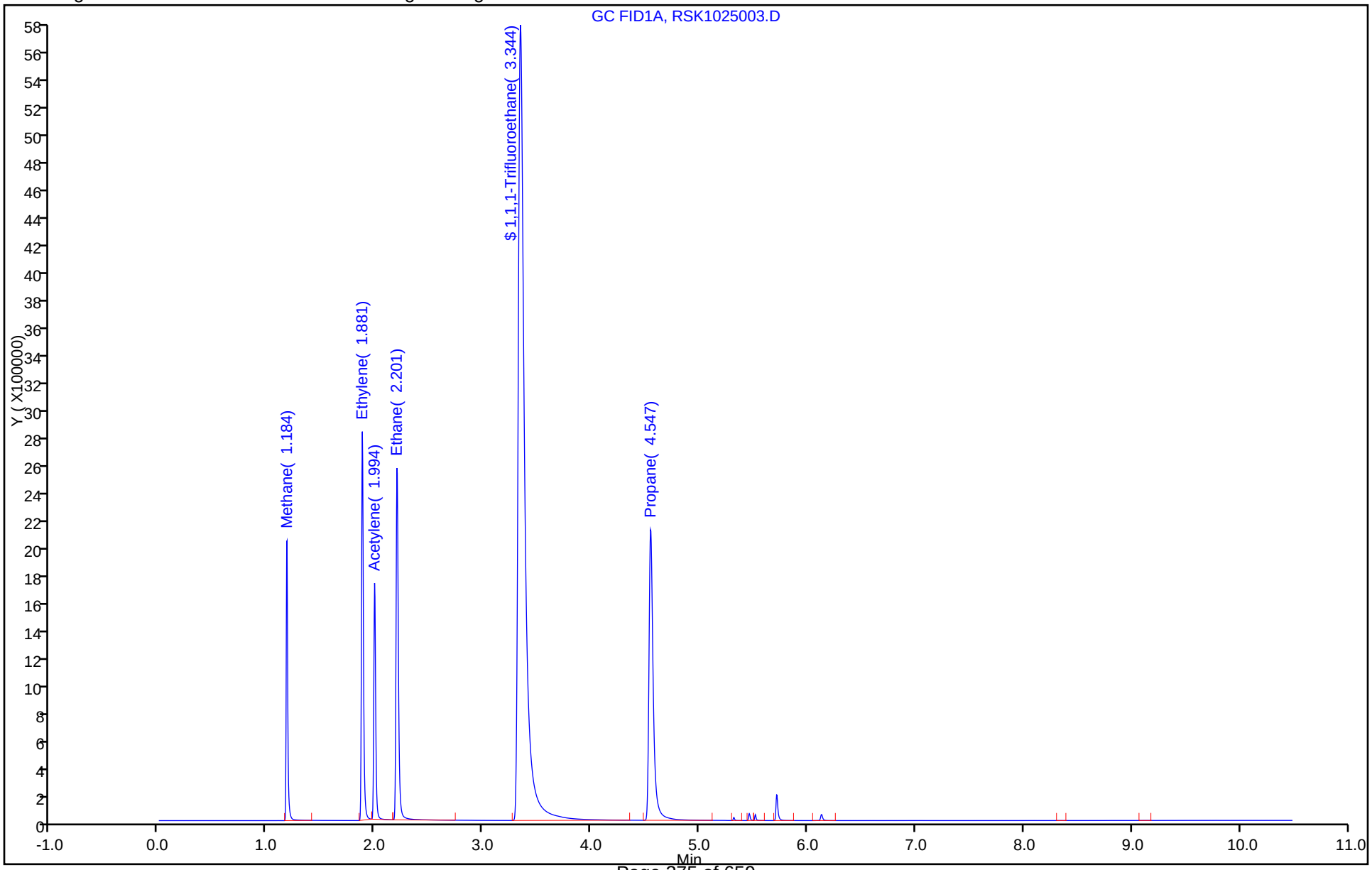
Lims ID: CCVRT Worklist Smp#: 3

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCV 240-300627/19 Calibration Date: 10/26/2017 00:17

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1025019.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	6852		281	285	-1.6	20.0
Ethylene	Ave	6405	6551		512	501	2.3	20.0
Acetylene	Ave	3669	4171		527	463	13.7	30.0
Ethane	Ave	6612	6761		549	536	2.3	20.0
Propane	Ave	6601	6837		814	786	3.6	20.0
1,1,1-Trifluoroethane	Ave	2950	2485		7790	9240	-15.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Lab Sample ID: CCV 240-300627/19 Calibration Date: 10/26/2017 00:17

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1025019.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.19	1.14	1.24
Ethylene	1.88	1.83	1.93
Acetylene	2.00	1.95	2.05
Ethane	2.21	2.01	2.41
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.35	3.25	3.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025019.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2017 00:17:34 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-019
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:49 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.186	0.000	1953773	285.1	280.6	
2 Ethylene						
1.883	1.883	0.000	3280644	500.8	512.2	
3 Acetylene						
1.996	1.996	0.000	1932752	463.3	526.8	
4 Ethane						
2.206	2.206	0.000	3626696	536.4	548.5	
$ 5 1,1,1-Trifluoroethane						
3.346	3.346	0.000	22972391	9243.9	7787.2	
6 Propane						
4.553	4.553	0.000	5373215	786.0	814.0	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 26-Oct-2017 06:59:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025019.D

Injection Date: 26-Oct-2017 00:17:34 Instrument ID: ZPID Operator ID:

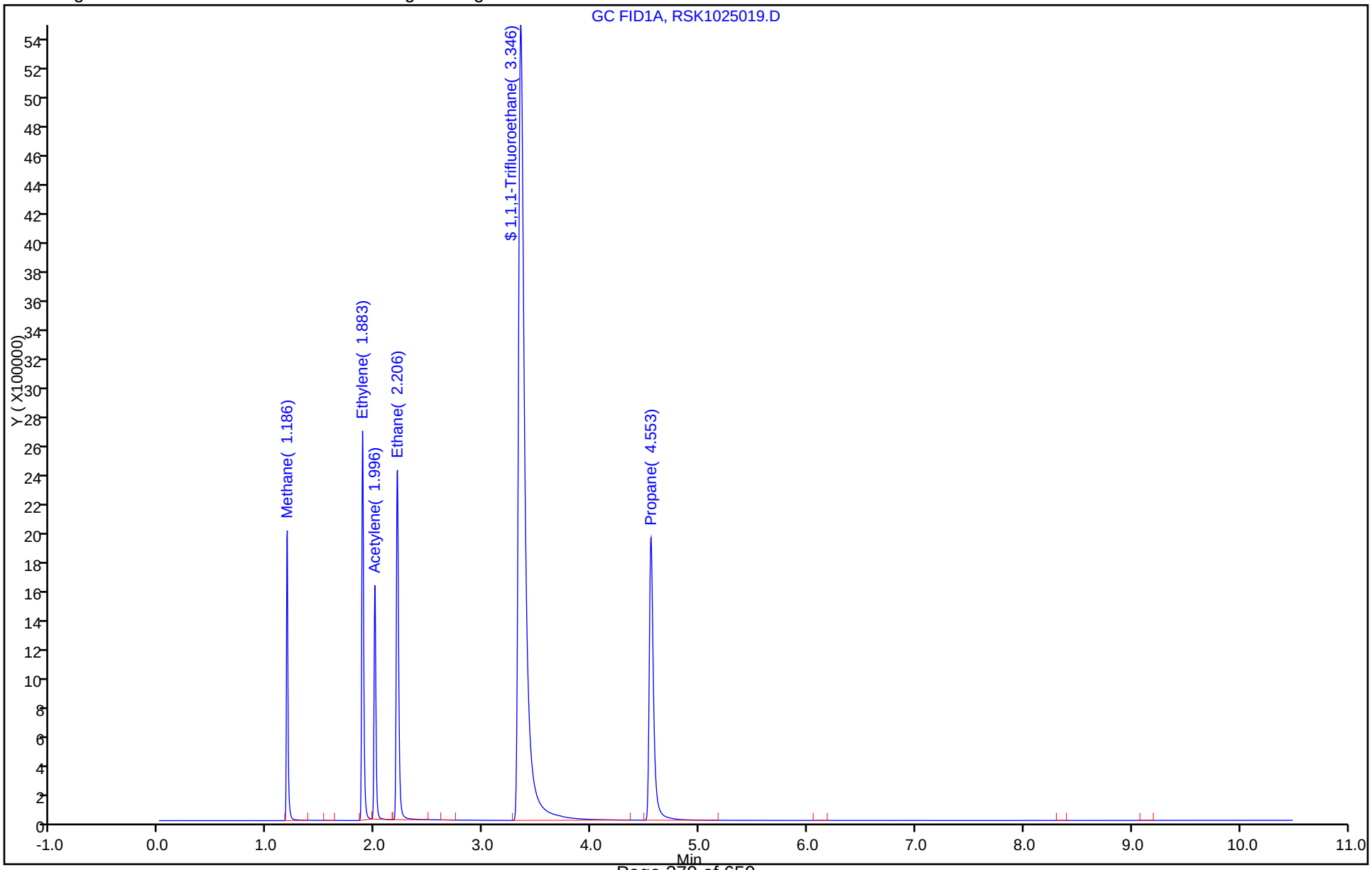
Lims ID: CCV Worklist Smp#: 19

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-300627/4

Matrix: Water | Lab File ID: RSK1025004.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 23(mL) | Date Analyzed: 10/25/2017 20:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300627 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		1.0	0.17
74-84-0	Ethane	ND		1.0	0.10
74-85-1	Ethylene	ND		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	88		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 25-Oct-2017 20:02:46 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-004
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.184	0.002	506		0.0727	
2 Ethylene						
	1.881				ND	
3 Acetylene						
	1.994				ND	
4 Ethane						
	2.201				ND	
$ 5 1,1,1-Trifluoroethane						
3.346	3.344	0.002	25395608	9730.4	8608.6	
6 Propane						
	4.547				ND	

Reagents:

SARSKSURR_00010 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 26-Oct-2017 06:59:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025004.D

Injection Date: 25-Oct-2017 20:02:46 Instrument ID: ZPID Operator ID:

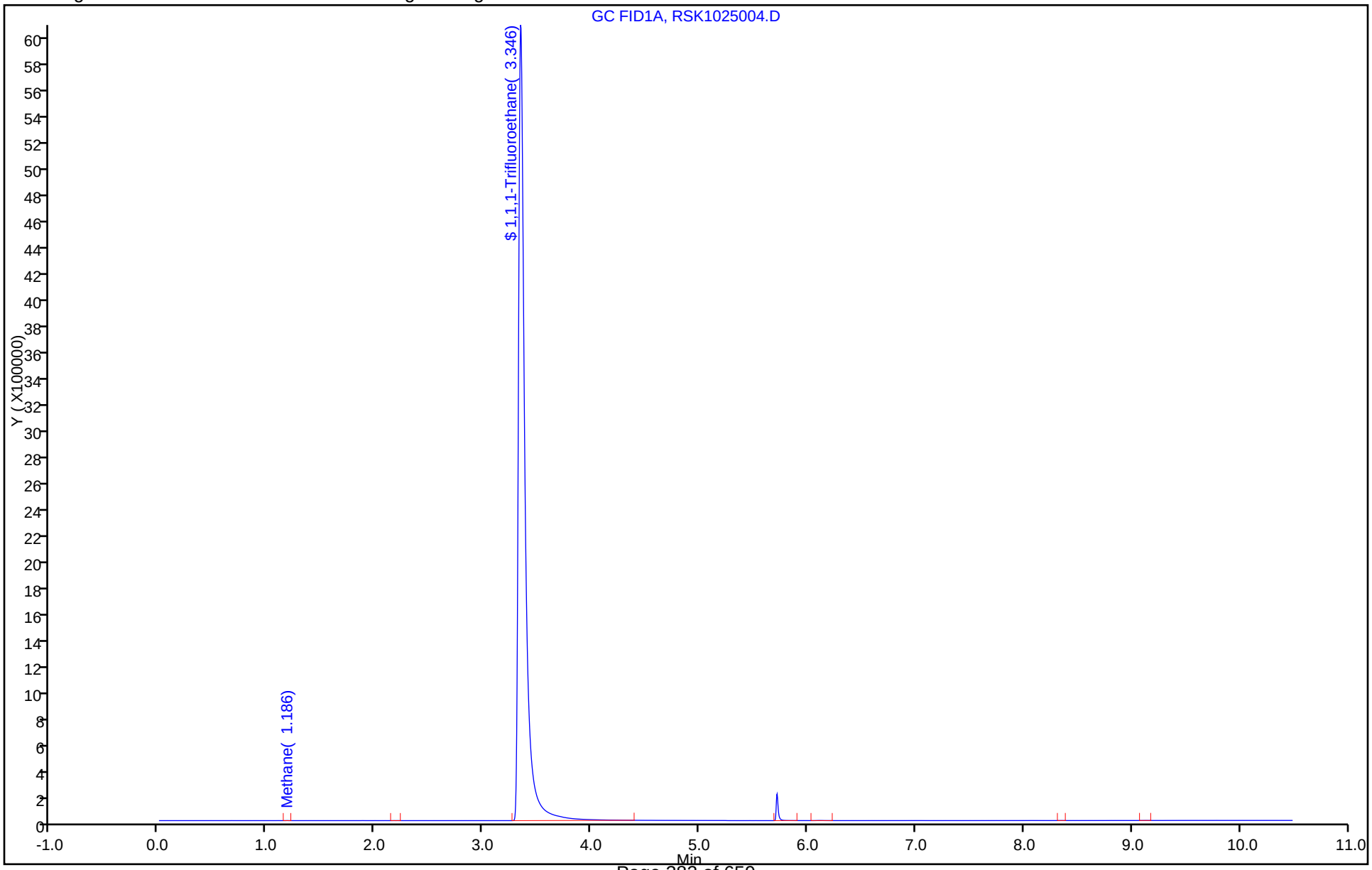
Lims ID: MB Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 25-Oct-2017 20:02:46 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-004
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9730.4	8608.6	88.47

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-300627/5

Matrix: Water | Lab File ID: RSK1025005.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 23(mL) | Date Analyzed: 10/25/2017 20:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300627 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	279		1.0	0.17
74-84-0	Ethane	557		1.0	0.10
74-85-1	Ethylene	517		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	86		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025005.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Oct-2017 20:19:46 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-005
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
	1.182	1.184	-0.002	1945187	285.1	279.4	
2 Ethylene							
	1.882	1.881	0.001	3310688	500.8	516.9	
3 Acetylene							
	1.995	1.994	0.001	1951148	463.3	531.8	
4 Ethane							
	2.202	2.201	0.001	3684104	536.4	557.2	
$ 5 1,1,1-Trifluoroethane							
	3.345	3.344	0.001	23447440	9243.9	7948.2	
6 Propane							
	4.549	4.547	0.002	5529847	786.0	837.7	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 26-Oct-2017 06:59:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025005.D

Injection Date: 25-Oct-2017 20:19:46 Instrument ID: ZPID Operator ID:

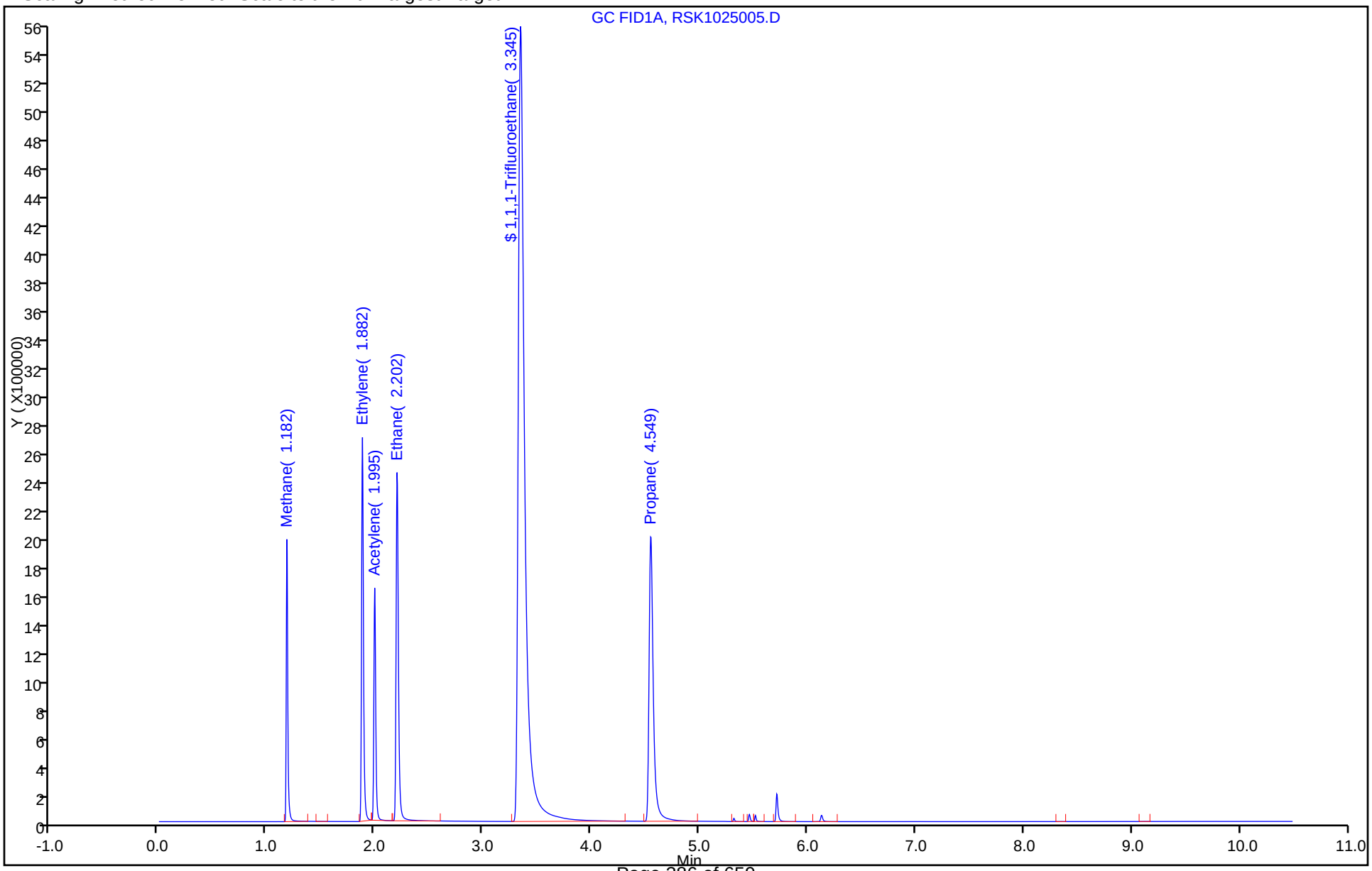
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025005.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Oct-2017 20:19:46 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-005
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9243.9	7948.2	85.98

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MS | Lab Sample ID: 500-136029-1 MS

Matrix: Water | Lab File ID: RSK1025009.D

Analysis Method: RSK-175 | Date Collected: 10/19/2017 16:04

Sample wt/vol: 23(mL) | Date Analyzed: 10/25/2017 21:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300627 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	278		1.0	0.17
74-84-0	Ethane	546		1.0	0.10
74-85-1	Ethylene	510		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	83		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025009.D
Lims ID: 500-136029-D-1 MS
Client ID: OMW2D-GW-101917
Sample Type: MS
Inject. Date: 25-Oct-2017 21:27:46 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-009
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.184	0.000	1933040	285.1	277.6	
2 Ethylene						
1.880	1.881	-0.001	3263897	500.8	509.5	
4 Ethane						
2.200	2.201	-0.001	3609696	536.4	546.0	
$ 5 1,1,1-Trifluoroethane						
3.344	3.344	0.000	22582945	9243.9	7655.2	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 26-Oct-2017 06:59:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025009.D

Injection Date: 25-Oct-2017 21:27:46 Instrument ID: ZPID Operator ID:

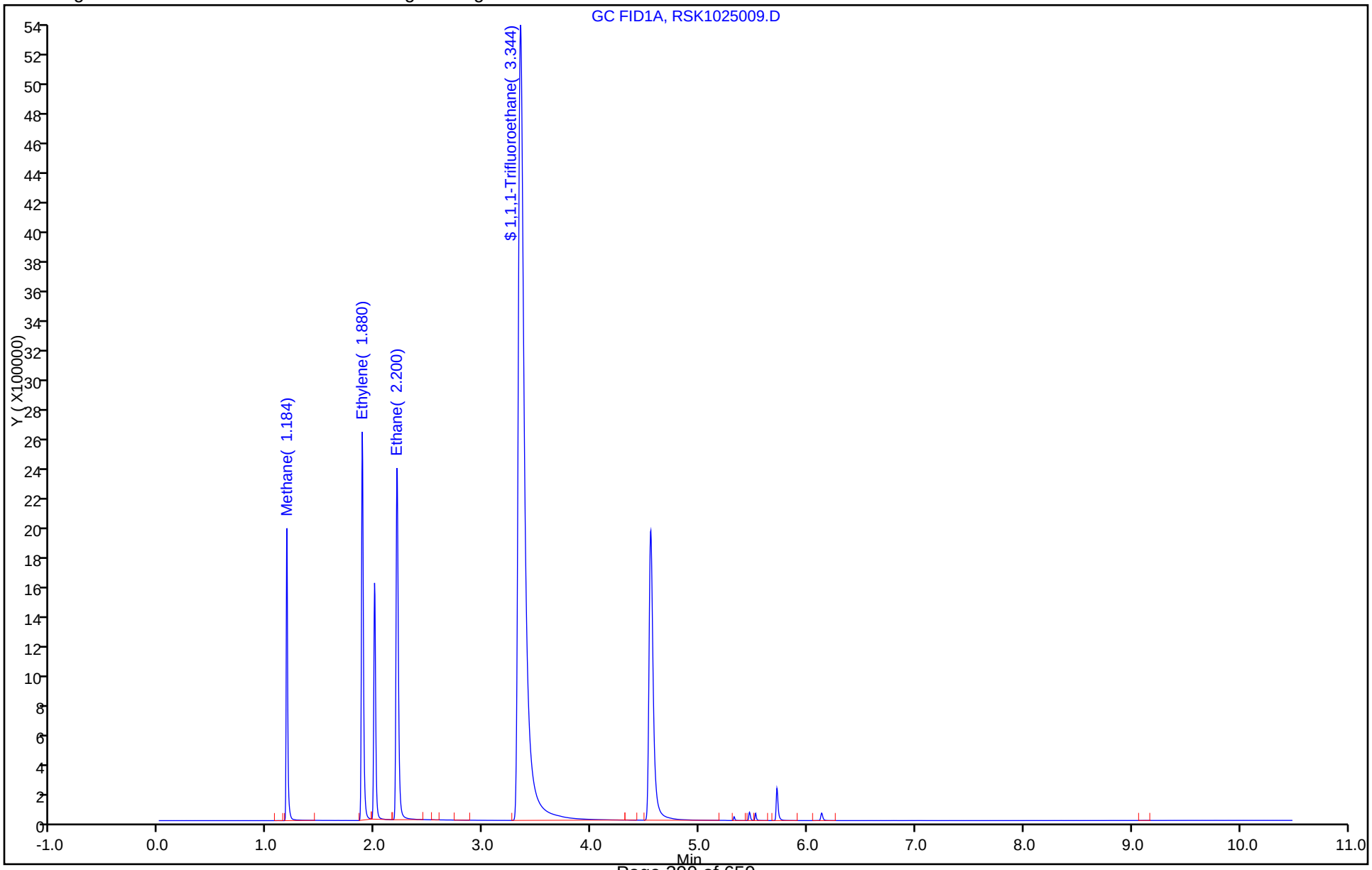
Lims ID: 500-136029-D-1 MS Worklist Smp#: 9

Client ID: OMW2D-GW-101917

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025009.D
Lims ID: 500-136029-D-1 MS
Client ID: OMW2D-GW-101917
Sample Type: MS
Inject. Date: 25-Oct-2017 21:27:46 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-009
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9243.9	7655.2	82.81

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136029-1

SDG No.:

Client Sample ID: OMW2D-GW-101917 MSD | Lab Sample ID: 500-136029-1 MSD

Matrix: Water | Lab File ID: RSK1025010.D

Analysis Method: RSK-175 | Date Collected: 10/19/2017 16:04

Sample wt/vol: 23(mL) | Date Analyzed: 10/25/2017 21:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300627 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	275		1.0	0.17
74-84-0	Ethane	544		1.0	0.10
74-85-1	Ethylene	506		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	83		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025010.D
Lims ID: 500-136029-D-1 MSD
Client ID: OMW2D-GW-101917
Sample Type: MSD
Inject. Date: 25-Oct-2017 21:44:45 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-010
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.184	0.002	1918150	285.1	275.5	
2 Ethylene						
1.886	1.881	0.005	3238901	500.8	505.6	
4 Ethane						
2.206	2.201	0.005	3596844	536.4	544.0	
$ 5 1,1,1-Trifluoroethane						
3.349	3.344	0.005	22564859	9243.9	7649.1	

Reagents:

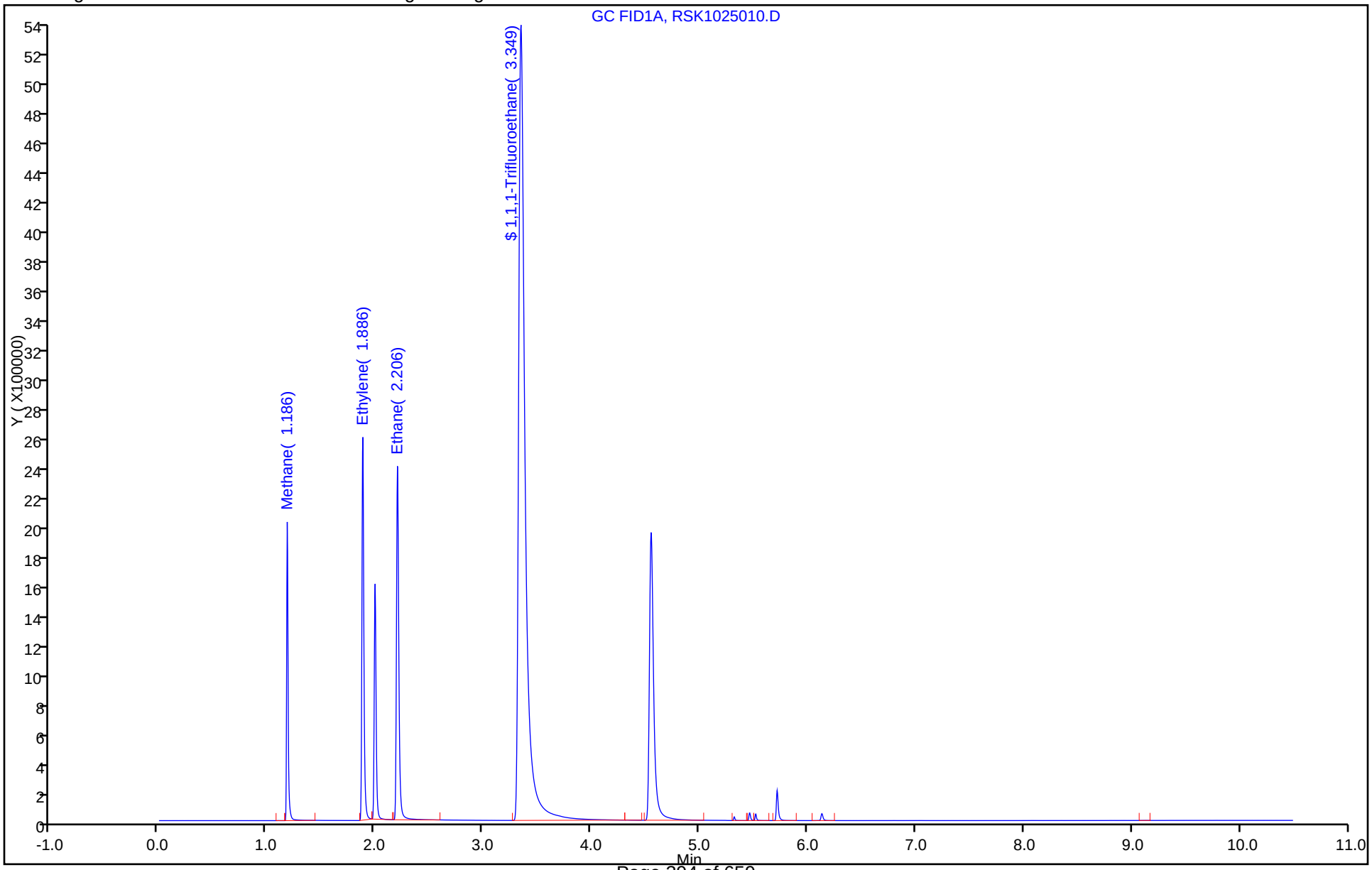
SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 26-Oct-2017 06:59:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025010.D				
Injection Date:	25-Oct-2017 21:44:45	Instrument ID:	ZPID	Operator ID:	
Lims ID:	500-136029-D-1 MSD			Worklist Smp#:	10
Client ID:	OMW2D-GW-101917				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK1025010.D
Lims ID: 500-136029-D-1 MSD
Client ID: OMW2D-GW-101917
Sample Type: MSD
Inject. Date: 25-Oct-2017 21:44:45 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070035-010
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171025-70035.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 26-Oct-2017 06:59:41 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9243.9	7649.1	82.75

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: ZPID Start Date: 10/15/2017 12:40

Analysis Batch Number: 299071 End Date: 10/15/2017 14:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-299071/3 IC		10/15/2017 12:40	1	RSK1015003.D	HP-PLOT/Q 0.53(mm)
STD2 240-299071/4 IC		10/15/2017 12:57	1	RSK1015004.D	HP-PLOT/Q 0.53(mm)
STD3 240-299071/5 ICRT		10/15/2017 13:14	1	RSK1015005.D	HP-PLOT/Q 0.53(mm)
STD4 240-299071/6 IC		10/15/2017 13:32	1	RSK1015006.D	HP-PLOT/Q 0.53(mm)
STD5 240-299071/7 IC		10/15/2017 13:49	1	RSK1015007.D	HP-PLOT/Q 0.53(mm)
STD6 240-299071/8 IC		10/15/2017 14:06	1	RSK1015008.D	HP-PLOT/Q 0.53(mm)
ICV 240-299071/9		10/15/2017 14:23	1	RSK1015009.D	HP-PLOT/Q 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136029-1

SDG No.:

Instrument ID: ZPID Start Date: 10/25/2017 19:45

Analysis Batch Number: 300627 End Date: 10/26/2017 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-300627/3		10/25/2017 19:45	1	RSK1025003.D	HP-PLOT/Q 0.53(mm)
MB 240-300627/4		10/25/2017 20:02	1	RSK1025004.D	HP-PLOT/Q 0.53(mm)
LCS 240-300627/5		10/25/2017 20:19	1	RSK1025005.D	HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 20:36	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 20:53	5		HP-PLOT/Q 0.53(mm)
500-136029-1		10/25/2017 21:10	1	RSK1025008.D	HP-PLOT/Q 0.53(mm)
500-136029-1 MS		10/25/2017 21:27	1	RSK1025009.D	HP-PLOT/Q 0.53(mm)
500-136029-1 MSD		10/25/2017 21:44	1	RSK1025010.D	HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 22:01	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 22:18	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 22:35	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 22:52	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 23:09	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 23:26	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/25/2017 23:43	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/26/2017 00:00	5		HP-PLOT/Q 0.53(mm)
CCV 240-300627/19		10/26/2017 00:17	1	RSK1025019.D	HP-PLOT/Q 0.53(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG No.:

Project: Ellsworth Industrial Park

Client Sample ID	Lab Sample ID
OMW2D-GW-101917	500-136029-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OMW2D-GW-101917
Lab Sample ID: 500-136029-1
Lab Name: TestAmerica Chicago
Job No.: 500-136029-1
SDG ID.:
Matrix: Water
Date Sampled: 10/19/2017 16:04
Reporting Basis: WET
Date Received: 10/20/2017 16:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.23	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	140	4.0	3.4	mg/L			20	9056A
14797-55-8	Nitrate as N	0.074	0.20	0.068	mg/L	J		1	9056A
14808-79-8	Sulfate	100	4.0	1.9	mg/L			20	9056A
7440-44-0	Total Organic Carbon - Duplicates	1.9	1.0	0.47	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Analyst: CCK Batch Start Date: 10/20/2017

Reporting Units: mg/L Analytical Batch No.: 406285

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	10:33	Chloride	2.98	3.00	99	90-110		WSTICCL2_00016
			Nitrate as N	2.02	2.00	101	90-110		WSTICNO32_00014
7	ICB	10:58	Chloride	ND					
			Nitrate as N	ND					
49	CCV	22:07	Chloride	1.01	1.00	101	90-110		WSTICCL1_00016
			Nitrate as N	1.03	1.00	103	90-110		WSTICN031_00007
50	CCB	22:20	Chloride	ND					
			Nitrate as N	ND					
66	CCV	00:39	Chloride	0.999	1.00	100	90-110		WSTICCL1_00016
			Nitrate as N	1.03	1.00	103	90-110		WSTICN031_00007
67	CCB	00:52	Chloride	ND					
			Nitrate as N	ND					
54	CCV	02:59	Chloride	1.00	1.00	100	90-110		WSTICCL1_00016
			Nitrate as N	1.02	1.00	102	90-110		WSTICN031_00007
55	CCB	03:11	Chloride	ND					
			Nitrate as N	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Analyst: CCK Batch Start Date: 11/02/2017

Reporting Units: mg/L Analytical Batch No.: 408255

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	10:31	Chloride	2.96	3.00	99	90-110		WSTICCL2_00016
			Sulfate	5.09	5.00	102	90-110		WSTICS2_00012
12	ICB	10:44	Chloride	ND					
			Sulfate	ND					
5	CCV	13:03	Chloride	0.977	1.00	98	90-110		WSTICCL1_00017
			Sulfate	2.32	2.50	93	90-110		WSTICS1_00010
6	CCB	13:15	Chloride	ND					
			Sulfate	ND					
18	CCV	15:35	Chloride	0.989	1.00	99	90-110		WSTICCL1_00017
			Sulfate	2.35	2.50	94	90-110		WSTICS1_00010
19	CCB	15:47	Chloride	ND					
			Sulfate	ND					
37	CCV	18:06	Chloride	0.998	1.00	100	90-110		WSTICCL1_00017
38	CCB	18:19	Chloride	ND					
49	CCV	20:39	Chloride	1.00	1.00	100	90-110		WSTICCL1_00017
50	CCB	20:51	Chloride	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Analyst: HMW Batch Start Date: 10/24/2017

Reporting Units: mg/L Analytical Batch No.: 406794

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	00:04	Total Organic Carbon - Duplicates	20.5	20.0	103	90-110		WCSTTC2_00132
3	ICB	00:13	Total Organic Carbon - Duplicates	ND					
14	CCV	03:07	Total Organic Carbon - Duplicates	9.80	10.0	98	90-110		WCSTTC1_00122
15	CCB	03:15	Total Organic Carbon - Duplicates	ND					
26	CCV	06:18	Total Organic Carbon - Duplicates	9.54	10.0	95	90-110		WCSTTC1_00122
27	CCB	06:37	Total Organic Carbon - Duplicates	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 406285 Date: 10/20/2017 23:11							
9056A	MB 500-406285/59	Chloride	ND		mg/L	0.20	1
9056A	MB 500-406285/59	Nitrate as N	ND		mg/L	0.20	1
Batch ID: 408255 Date: 11/02/2017 10:56							
9056A	MB 500-408255/20	Chloride	ND		mg/L	0.20	1
9056A	MB 500-408255/20	Sulfate	ND		mg/L	0.20	1
Batch ID: 406794 Date: 10/24/2017 00:21							
9060A	MB 500-406794/4	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
9060A	MB 500-406794/4	TOC Result 1	ND		mg/L	1.0	1
9060A	MB 500-406794/4	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 407023 Date: 10/26/2017 08:14							
SM 4500 S2 F	MB 500-407023/1	Sulfide	ND		mg/L	1.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406285 Date: 10/21/2017 02:08											
9056A	500-136029-1	Nitrate as N	0.074	J	mg/L						
9056A	500-136029-1 MS	Nitrate as N	1.03		mg/L	1.00	96	80-120			
Batch ID: 408255 Date: 11/02/2017 13:41											
9056A	500-136029-1	Sulfate	100		mg/L						
9056A	500-136029-1 MS	Sulfate	154		mg/L	50.0	102	80-120			
Batch ID: 408255 Date: 11/02/2017 19:10											
9056A	500-136029-1	Chloride	140		mg/L						
9056A	500-136029-1 MS	Chloride	161		mg/L	20.0	97	80-120			4
Batch ID: 406794 Date: 10/24/2017 05:59											
9060A	500-136029-1	Total Organic Carbon - Duplicates	1.9		mg/L						
9060A	500-136029-1 MS	Total Organic Carbon - Duplicates	11.3		mg/L	10.0	93	75-125			
9060A	500-136029-1	TOC Result 1	1.9		mg/L						
9060A	500-136029-1 MS	TOC Result 1	11.3		mg/L	10.0	93	75-125			
9060A	500-136029-1	TOC Result 2	1.9		mg/L						
9060A	500-136029-1 MS	TOC Result 2	11.3		mg/L	10.0	94	75-125			
Batch ID: 407023 Date: 10/26/2017 08:47											
SM 4500 S2 F	500-136029-1	Sulfide	ND		mg/L						
SM 4500 S2 F	500-136029-1 MS	Sulfide	2.48		mg/L	3.28	76	75-125			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406285 Date: 10/21/2017 02:21											
9056A	500-136029-1 MSD	Nitrate as N	1.02		mg/L	1.00					
Batch ID: 408255 Date: 11/02/2017 13:53											
9056A	500-136029-1 MSD	Sulfate	153		mg/L	50.0	99	80-120	1	15	
Batch ID: 408255 Date: 11/02/2017 19:22											
9056A	500-136029-1 MSD	Chloride	160		mg/L	20.0	93	80-120	0	15	4
Batch ID: 406794 Date: 10/24/2017 06:09											
9060A	500-136029-1 MSD	Total Organic Carbon - Duplicates	11.3		mg/L	10.0	94	75-125	0	20	
9060A	500-136029-1 MSD	TOC Result 1	11.3		mg/L	10.0	93	75-125	0	20	
9060A	500-136029-1 MSD	TOC Result 2	11.3		mg/L	10.0	94	75-125	0	20	
Batch ID: 407023 Date: 10/26/2017 08:50											
SM 4500 S2 F	500-136029-1 MSD	Sulfide	2.73		mg/L	3.28	83	75-125	9	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406285	Date: 10/20/2017 23:23										
						LCS Source: WSTICCL2_00016					
9056A	LCS 500-406285/60	Chloride	2.97		mg/L	3.00	99	80-120			
						LCS Source: WSTICNO32_00014					
9056A	LCS 500-406285/60	Nitrate as N	2.05		mg/L	2.00	103	80-120			
Batch ID: 408255	Date: 11/02/2017 11:09										
						LCS Source: WSTICCL2_00016					
9056A	LCS 500-408255/21	Chloride	2.97		mg/L	3.00	99	80-120			
						LCS Source: WSTICS2_00012					
9056A	LCS 500-408255/21	Sulfate	5.11		mg/L	5.00	102	80-120			
Batch ID: 406794	Date: 10/24/2017 00:39										
						LCS Source: WCSTTC2_00132					
9060A	LCS 500-406794/5	Total Organic Carbon - Duplicates	9.63		mg/L	10.0	96	80-120			
9060A	LCS 500-406794/5	TOC Result 1	9.64		mg/L	10.0	96	80-120			
9060A	LCS 500-406794/5	TOC Result 2	9.62		mg/L	10.0	96	80-120			
Batch ID: 407023	Date: 10/26/2017 08:16										
						LCS Source: WSTSF1_00070					
SM 4500 S2 F	LCS 500-407023/2	Sulfide	3.29		mg/L	3.28	100	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 4500 S2 F MDL Date: 03/29/2017 11:17

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.231

FORM IX - IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG Number:

Matrix: Water Instrument ID: IC8

Method: 9056A MDL Date: 03/29/2017 14:43

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.2	0.17
Nitrate as N		0.2	0.068
Sulfate		0.2	0.095

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG Number:

Matrix: Water Instrument ID: IC8

Method: 9056A XMDL Date: 03/29/2017 14:44

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.2	0.17
Nitrate as N		0.2	0.068
Sulfate		0.2	0.095

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: 9060A MDL Date: 03/30/2017 08:30

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon - Duplicates		1	0.47

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136029-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: 9060A XMDL Date: 03/30/2017 08:31

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Duplicates		1	0.47

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: SM 4500 S2 F

Start Date: 10/26/2017 08:14 End Date: 10/26/2017 09:13

Lab Sample Id	D/F	Type	Time	Analytes																							
				S2																							
MB 500-407023/1	1	T	08:14	X																							
LCS 500-407023/2	1	T	08:16	X																							
ZZZZZZ			08:19																								
ZZZZZZ			08:22																								
ZZZZZZ			08:25																								
ZZZZZZ			08:28																								
ZZZZZZ			08:30																								
ZZZZZZ			08:33																								
ZZZZZZ			08:36																								
ZZZZZZ			08:39																								
ZZZZZZ			08:42																								
500-136029-1	1	T	08:44	X																							
500-136029-1 MS	1	T	08:47	X																							
500-136029-1 MSD	1	T	08:50	X																							
ZZZZZZ			08:53																								
ZZZZZZ			08:56																								
ZZZZZZ			08:59																								
ZZZZZZ			09:01																								
ZZZZZZ			09:04																								
ZZZZZZ			09:07																								
ZZZZZZ			09:10																								
ZZZZZZ			09:13																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: IC8 Analysis Method: 9056A

Start Date: 10/20/2017 10:33 End Date: 10/21/2017 03:11

Lab Sample Id	D/F	Type	Time	Analytes																							
				CL-	NO3																						
ICV 500-406285/1	1		10:33	X	X																						
ZZZZZZ			13:53																								
ZZZZZZ			14:06																								
ZZZZZZ			14:19																								
CCV 500-406285/5			14:31																								
CCB 500-406285/6			14:44																								
ICB 500-406285/7	1		10:58	X	X																						
ZZZZZZ			11:11																								
ZZZZZZ			11:24																								
ZZZZZZ			12:50																								
ZZZZZZ			13:03																								
ZZZZZZ			13:15																								
ZZZZZZ			13:28																								
ZZZZZZ			13:41																								
ZZZZZZ			14:57																								
ZZZZZZ			15:09																								
ZZZZZZ			15:22																								
ZZZZZZ			15:35																								
ZZZZZZ			15:47																								
ZZZZZZ			16:00																								
ZZZZZZ			16:13																								
ZZZZZZ			16:25																								
ZZZZZZ			16:38																								
ZZZZZZ			16:51																								
CCV 500-406285/25			17:04																								
CCB 500-406285/26			17:16																								
ZZZZZZ			17:29																								
ZZZZZZ			17:42																								
ZZZZZZ			17:54																								
ZZZZZZ			18:07																								
ZZZZZZ			18:19																								
ZZZZZZ			18:32																								
ZZZZZZ			18:45																								
ZZZZZZ			18:57																								
ZZZZZZ			19:10																								
ZZZZZZ			19:23																								
CCV 500-406285/37			19:35																								
CCB 500-406285/38			19:48																								
ZZZZZZ			20:01																								
ZZZZZZ			20:13																								
ZZZZZZ			20:26																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: IC8 Analysis Method: 9056A

Start Date: 10/20/2017 10:33 End Date: 10/21/2017 03:11

Lab Sample Id	D/F	Type	Time	Analytes																								
				CL-	NO3																							
ZZZZZZ			20:39																									
ZZZZZZ			20:51																									
ZZZZZZ			21:04																									
ZZZZZZ			21:17																									
ZZZZZZ			21:29																									
ZZZZZZ			21:42																									
ZZZZZZ			21:55																									
CCV 500-406285/49	1		22:07	X	X																							
CCB 500-406285/50	1		22:20	X	X																							
500-136029-1 MSD	1	T	02:21		X																							
ZZZZZZ			02:33																									
ZZZZZZ			02:46																									
CCV 500-406285/54	1		02:59	X	X																							
CCB 500-406285/55	1		03:11	X	X																							
ZZZZZZ			22:33																									
ZZZZZZ			22:45																									
ZZZZZZ			22:58																									
MB 500-406285/59	1	T	23:11	X	X																							
LCS 500-406285/60	1	T	23:23	X	X																							
ZZZZZZ			23:36																									
ZZZZZZ			23:49																									
ZZZZZZ			00:01																									
ZZZZZZ			00:14																									
ZZZZZZ			00:27																									
CCV 500-406285/66	1		00:39	X	X																							
CCB 500-406285/67	1		00:52	X	X																							
ZZZZZZ			01:05																									
ZZZZZZ			01:17																									
ZZZZZZ			01:30																									
500-136029-1	1	T	01:43		X																							
ZZZZZZ			01:55																									
500-136029-1 MS	1	T	02:08		X																							

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: IC8 Analysis Method: 9056A

Start Date: 11/02/2017 10:31 End Date: 11/03/2017 03:11

Lab Sample Id	D/F	Type	Time	Analytes																							
				CL-	SO4																						
ICV 500-408255/1	1		10:31	X	X																						
ZZZZZZ			12:25																								
ZZZZZZ			12:38																								
ZZZZZZ			12:50																								
CCV 500-408255/5	1		13:03	X	X																						
CCB 500-408255/6	1		13:15	X	X																						
500-136029-1	20	T	13:28	X	X																						
500-136029-1 MS	20	T	13:41		X																						
500-136029-1 MSD	20	T	13:53		X																						
ZZZZZZ			14:06																								
ZZZZZZ			14:19																								
ICB 500-408255/12	1		10:44	X	X																						
ZZZZZZ			14:31																								
ZZZZZZ			14:44																								
ZZZZZZ			14:57																								
ZZZZZZ			15:09																								
ZZZZZZ			15:22																								
CCV 500-408255/18	1		15:35	X	X																						
CCB 500-408255/19	1		15:47	X	X																						
MB 500-408255/20	1	T	10:56	X	X																						
LCS 500-408255/21	1	T	11:09	X	X																						
ZZZZZZ			11:22																								
ZZZZZZ			11:34																								
ZZZZZZ			11:47																								
ZZZZZZ			12:00																								
ZZZZZZ			12:12																								
ZZZZZZ			16:00																								
ZZZZZZ			16:13																								
ZZZZZZ			16:25																								
ZZZZZZ			16:38																								
ZZZZZZ			16:51																								
ZZZZZZ			17:03																								
ZZZZZZ			17:16																								
ZZZZZZ			17:29																								
ZZZZZZ			17:41																								
ZZZZZZ			17:54																								
CCV 500-408255/37	1		18:06	X																							
CCB 500-408255/38	1		18:19	X																							
ZZZZZZ			18:32																								
ZZZZZZ			18:44																								
ZZZZZZ			18:57																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: IC8 Analysis Method: 9056A

Start Date: 11/02/2017 10:31 End Date: 11/03/2017 03:11

Lab Sample Id	D/F	Type	Time	Analytes																								
				CL-	SO4																							
500-136029-1 MS	20	T	19:10	X																								
500-136029-1 MSD	20	T	19:22	X																								
ZZZZZZ			19:35																									
ZZZZZZ			19:48																									
ZZZZZZ			20:00																									
ZZZZZZ			20:13																									
ZZZZZZ			20:26																									
CCV 500-408255/49	1		20:39	X																								
CCB 500-408255/50	1		20:51	X																								
ZZZZZZ			21:04																									
ZZZZZZ			21:17																									
ZZZZZZ			21:29																									
ZZZZZZ			21:42																									
ZZZZZZ			21:55																									
ZZZZZZ			22:07																									
ZZZZZZ			22:20																									
ZZZZZZ			22:33																									
ZZZZZZ			22:45																									
ZZZZZZ			22:58																									
CCV 500-408255/61			23:10																									
CCB 500-408255/62			23:23																									
ZZZZZZ			23:36																									
ZZZZZZ			23:48																									
ZZZZZZ			00:01																									
ZZZZZZ			00:14																									
ZZZZZZ			00:26																									
ZZZZZZ			00:39																									
ZZZZZZ			00:52																									
ZZZZZZ			01:04																									
ZZZZZZ			01:17																									
ZZZZZZ			01:30																									
CCV 500-408255/73			01:42																									
CCB 500-408255/74			01:55																									
ZZZZZZ			02:08																									
ZZZZZZ			02:20																									
ZZZZZZ			02:33																									
ZZZZZZ			02:45																									
CCV 500-408255/79			02:58																									
CCB 500-408255/80			03:11																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: TOC3 Analysis Method: 9060A

Start Date: 10/23/2017 23:54 End Date: 10/24/2017 11:23

Lab Sample Id	D/F	Type	Time	Analytes																							
				TOC1	TOC2	TOCD																					
ZZZZZZ			23:54																								
ICV 500-406794/2	1		00:04	X	X	X																					
ICB 500-406794/3	1		00:13			X																					
MB 500-406794/4	1	T	00:21			X																					
LCS 500-406794/5	1	T	00:39	X	X	X																					
ZZZZZZ			00:57																								
ZZZZZZ			01:15																								
ZZZZZZ			01:32																								
ZZZZZZ			01:50																								
ZZZZZZ			01:59																								
ZZZZZZ			02:08																								
ZZZZZZ			02:27																								
ZZZZZZ			02:47																								
CCV 500-406794/14	1		03:07	X	X	X																					
CCB 500-406794/15	1		03:15			X																					
ZZZZZZ			03:25																								
ZZZZZZ			03:46																								
ZZZZZZ			04:06																								
ZZZZZZ			04:25																								
ZZZZZZ			04:43																								
ZZZZZZ			05:01																								
ZZZZZZ			05:19																								
500-136029-1	1	T	05:38			X																					
500-136029-1 MS	1	T	05:59	X	X	X																					
500-136029-1 MSD	1	T	06:09	X	X	X																					
CCV 500-406794/26	1		06:18	X	X	X																					
CCB 500-406794/27	1		06:37			X																					
ZZZZZZ			06:57																								
ZZZZZZ			07:07																								
ZZZZZZ			07:16																								
ZZZZZZ			07:34																								
ZZZZZZ			07:54																								
ZZZZZZ			08:13																								
ZZZZZZ			08:30																								
ZZZZZZ			08:47																								
ZZZZZZ			09:04																								
ZZZZZZ			09:23																								
CCV 500-406794/38			09:43																								
CCB 500-406794/39			09:51																								
ZZZZZZ			09:59																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Instrument ID: TOC3 Analysis Method: 9060A

Start Date: 10/23/2017 23:54 End Date: 10/24/2017 11:23

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOC1	TOC2	TOCD																						
ZZZZZZ			10:17																									
ZZZZZZ			10:27																									
ZZZZZZ			10:36																									
ZZZZZZ			10:55																									
CCV 500-406794/45			11:15																									
CCB 500-406794/46			11:23																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 407023 Batch Start Date: 10/26/17 08:14 Batch Analyst: Boyd, Cheryl L

Batch Method: SM 4500 S2 F Batch End Date: 10/26/17 09:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount	CalcMsg	WSTSF1 00070
MB 500-407023/1		SM 4500 S2 F		5 mL	4.99 mL	250 mL	250 mL	OK	
LCS 500-407023/2		SM 4500 S2 F		5 mL	2.98 mL	250 mL	250 mL	OK	5 mL
500-136029-M-1	OMW2D-GW-101917	SM 4500 S2 F	T	5 mL	5.15 mL	250 mL	250 mL	OK	
500-136029-M-1 MS	OMW2D-GW-101917	SM 4500 S2 F	T	5 mL	3.48 mL	250 mL	250 mL	OK	5 mL
500-136029-M-1 MSD	OMW2D-GW-101917	SM 4500 S2 F	T	5 mL	3.33 mL	250 mL	250 mL	OK	5 mL

Batch Notes	
First End time	09:16
Filter ID	WHATMANGLASSFIBERFILTER
Hydrochloric Acid ID	6NHCL00032
Iodine Lot Number	0.25NIODINE00050
Iodine Vendor	EMD
Normality of Iodine Solution	0.0253 N
Sodium Thiosulfate ID	0.025NA2S2O300040
Sodium Thiosulfate Vendor	JTBAKER
Sodium Thiosulfate Dispenser ID	C-3030
Nominal Amount Used	250 mL
Perform Calculation (0=No, 1=Yes)	1
Starch Lot Number	STARCHIND00020
First Start time	08:14
Normality of First Titrant	0.0252 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 406285 Batch Start Date: 10/20/17 10:33 Batch Analyst: Krupa, Colleen C

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTICCL1 00016	WSTICCL2 00016	WSTICF1 00010	WSTICF2 00013
ICV 500-406285/1		9056A		100 mL	100 mL		300 uL		100 uL
CCV 500-406285/49		9056A		100 mL	100 mL	100 uL		60 uL	
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
CCV 500-406285/54		9056A		100 mL	100 mL	100 uL		60 uL	
LCS 500-406285/60		9056A		100 mL	100 mL		300 uL		
CCV 500-406285/66		9056A		100 mL	100 mL	100 uL		60 uL	
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICN031 00007	WSTICNO32 00014	WSTICS1 00010	WSTICS2 00012		
ICV 500-406285/1		9056A			200 uL		500 uL		
CCV 500-406285/49		9056A		100 uL		250 uL			
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T		100 uL		250 uL		
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T		100 uL		250 uL		
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T		100 uL		250 uL		
CCV 500-406285/54		9056A		100 uL		250 uL			
LCS 500-406285/60		9056A			200 uL		500 uL		
CCV 500-406285/66		9056A		100 uL		250 uL			
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T		100 uL		250 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 406285 Batch Start Date: 10/20/17 10:33 Batch Analyst: Krupa, Colleen C

Batch Method: 9056A Batch End Date:

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 ID	ELUENTCONC00023
Filter ID	WHATMAN-9843107-0.45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 408255 Batch Start Date: 11/02/17 10:31 Batch Analyst: Krupa, Colleen C

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTICCL1 00017	WSTICCL2 00016	WSTICF1 00010	WSTICF2 00015
ICV 500-408255/1		9056A		100 mL	100 mL		300 uL		100 uL
CCV 500-408255/5		9056A		100 mL	100 mL	100 uL		60 uL	
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL				
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL				
CCV 500-408255/18		9056A		100 mL	100 mL	100 uL		60 uL	
LCS 500-408255/21		9056A		100 mL	100 mL		300 uL		100 uL
CCV 500-408255/37		9056A		100 mL	100 mL	100 uL		60 uL	
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
CCV 500-408255/49		9056A		100 mL	100 mL	100 uL		60 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICN031 00007	WSTICNI1 00010	WSTICNO2II 00013	WSTICNO32 00014	WSTICS1 00010	WSTICS2 00012
ICV 500-408255/1		9056A				200 uL	200 uL		500 uL
CCV 500-408255/5		9056A		100 uL	100 uL			250 uL	
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T						250 uL
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T						250 uL
CCV 500-408255/18		9056A		100 uL	100 uL			250 uL	
LCS 500-408255/21		9056A				200 uL	200 uL		500 uL
CCV 500-408255/37		9056A		100 uL	100 uL			250 uL	
500-136029-L-1 MS	OMW2D-GW-101917	9056A	T						
500-136029-L-1 MSD	OMW2D-GW-101917	9056A	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 408255 Batch Start Date: 11/02/17 10:31 Batch Analyst: Krupa, Colleen C

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICN031 00007	WSTICNI1 00010	WSTICNO2II 00013	WSTICNO32 00014	WSTICS1 00010	WSTICS2 00012
CCV 500-408255/49		9056A		100 uL	100 uL			250 uL	

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 ID	ELUENTCONC00023
Filter ID	WHATMAN-9814904-0.45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136029-1

SDG No.:

Batch Number: 406794 Batch Start Date: 10/23/17 23:54 Batch Analyst: Wontor, Heather M

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WCSTTC1 00122	WCSTTC2 00132
ICV 500-406794/2		9060A		200 mL	200 mL	0 %	TOC Pass		2000 uL
ICB 500-406794/3		9060A				0 %	TOC Pass		
MB 500-406794/4		9060A				4 %	TOC Pass		
LCS 500-406794/5		9060A		200 mL	200 mL	0 %	TOC Pass		1000 uL
CCV 500-406794/14		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB 500-406794/15		9060A				0 %	TOC Pass		
500-136029-J-1	OMW2D-GW-101917	9060A	T			1 %	TOC Pass		
500-136029-J-1 MS	OMW2D-GW-101917	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-136029-J-1 MSD	OMW2D-GW-101917	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
CCV 500-406794/26		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB 500-406794/27		9060A				0 %	TOC Pass		

Batch Notes	
First End time	See End Date/Time
Phosphoric Acid ID	21% H3PO4_00059
Sodium Persulfate ID	Na_Persulfate_00096
First Start time	See Start Date/Time

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica Chicago

CHI-22-12-084/Y-09/15

Cover Page - Ion Chromatograph

LIMS Batch: 406285 **FILE ID:** 10-20-2017 .csv

Calibration Date: 9/27/17

Instrument: (Circle)	
a. IC5: Dionex Series ICS-1100	SevenAnions
b. IC8: Dionex Series ICS-1100	SevenAnions

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV Stock ID	LCS / MS ICV Stock ID	LCS mg/L	ICV / CCV mg/L	MS mg/L
Fluoride	WSTICF1-00010	WSTICF2-00013	1.0	1.0 / 0.6	0.6
Chloride	WSTICCL1-00016	WSTICCL2-00016	3.0	3.0 / 1.0	1.0
Nitrite-N	WSTICNI1-	WSTICNO2II-	2.0	2.0 / 1.0	1.0
Bromide	WSTICBR1-	WSTICBR2-	2.0	2.0 / 1.0	1.0
Nitrate-N	WSTICNO31-00007	WSTICNO32-00014	2.0	2.0 / 1.0	1.0
O-PO4	WSTICP1-	WSTICP2-	2.0	2.0 / 1.0	1.0
Sulfate	WSTICS1-00010	WSTICS2-00012	5.0	5.0 / 2.5	2.5

Test	Range of Curve (mg/L)
Fluoride	0.20 - 2.0
Chloride	0.20 - 7.5
Nitrite-N	0.20 - 5.0
Bromide	0.20 - 5.0
Nitrate-N	0.20 - 4.0
O-PO4	0.20 - 4.0
Sulfate	0.20 - 10.0

IC Data Qualifiers used by the analyst in the raw data evaluation.

CE = Co-Elution or masking of peak(s) has been identified
OR = Over Range - Peak exceeds the highest standard of the calibration curve
OD = Over Dilution - The ion is reported from a less dilute injection
NR = Not Required - analysis was not required for this ion
AD = Analyst Discretion was used in the evaluation and the reporting of the ion
RE = Reported Elsewhere
RT = Retention Time Shift
MI = Manual Integration (baseline)

Analyst Signature: Colleen Kupa Date: 10/20/17

Reviewer Signature: [illegible] Date: 10/20/17

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC8: ICS 1100	Method: SevenAnions
Batch:	406285	
Date:	10/20/2017	

Analyst:	Colleen Krupa

Parameter	ICV RT	RT Window	
	Minutes	+/- 2 %	
Fluoride	2.54	2.49	2.59
Chloride	3.48	3.41	3.55
Nitrite		0.00	0.00
Bromide		0.00	0.00
Nitrate	5.44	5.33	5.55
Orthophosphate		0.00	0.00
Sulfate	8.07	7.91	8.23

Analyst Signature: Colleen Krupa Date: 10/20/17

406285 ~~406275~~ CK10/24/17

Sequence Overview

Sequence Details

Name:	10-20-2017	*Created On:*	01/Mar/16 09:52:46
Directory:	Instrument Data\ICS1100_1\2_Data\2017-1(	*Created By:*	CHIINSTIC7
Data Vault:	ChromeleonLocal	*Updated On:*	21/Oct/17 07:35:48
No. of Injections:	74	*Updated By:*	CHIINSTIC7

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Comment
1	ICV	RA1	Check Standard	04	20/Oct/17 10:33:26	IC Stock II
2	ICB	RA2	Unknown		20/Oct/17 10:58:44	
3	MB	RA3	Unknown		20/Oct/17 11:11:23	
4	LCS	RA4	Check Standard	04	20/Oct/17 11:24:17	IC Stock II
5	500-135383-H-1	RB1	Unknown		20/Oct/17 12:50:41	F
6	500-135383-H-1 MS	RB2	Spiked	03	20/Oct/17 13:03:19	F
7	500-135383-H-1 MSD	RB3	Spiked	03	20/Oct/17 13:15:58	F
8	500-135273-M-1	RB4	Unknown		20/Oct/17 13:28:38	CL, NO3, SO4
9	500-135273-M-1	RB5	Unknown		20/Oct/17 13:41:17	CL, NO3, SO4
10	500-135273-M-3	RB6	Unknown		20/Oct/17 13:53:57	CL, NO3, SO4
11	500-135273-M-3	RB7	Unknown		20/Oct/17 14:06:36	CL, NO3, SO4
12	500-135273-M-3 MS	RB8	Spiked	03	20/Oct/17 14:19:15	CL, NO3, SO4
13	CCV	RA5	Check Standard	03	20/Oct/17 14:31:55	IC Stock I
14	CCB	RA6	Unknown		20/Oct/17 14:44:34	
15	500-135273-M-3 MSD	RC1	Spiked	03	20/Oct/17 14:57:14	CL, NO3, SO4
16	500-135273-M-3 MS	RC2	Spiked	03	20/Oct/17 15:09:53	CL, NO3, SO4
17	500-135273-M-3 MSD	RC3	Spiked	03	20/Oct/17 15:22:32	CL, NO3, SO4
18	500-135273-M-4	RC4	Unknown		20/Oct/17 15:35:11	CL, NO3, SO4
19	500-135193-B-17	RC5	Unknown		20/Oct/17 15:47:49	F, CL, SO4
20	500-135193-B-17	RC6	Unknown		20/Oct/17 16:00:28	F, CL, SO4
21	500-135193-B-19	RC7	Unknown		20/Oct/17 16:13:06	F, CL, SO4
22	500-135193-B-19	RC8	Unknown		20/Oct/17 16:25:45	F, CL, SO4
23	500-135193-B-19	RD1	Unknown		20/Oct/17 16:38:24	F, CL, SO4
24	500-135965-B-1	RD2	Unknown		20/Oct/17 16:51:08	CL
25	CCV	RA7	Check Standard	03	20/Oct/17 17:04:07	IC Stock I
26	CCB	RA8	Unknown		20/Oct/17 17:16:46	
27	500-135556-A-1	RD3	Unknown		20/Oct/17 17:29:25	SO4
28	500-135573-B-4	RD4	Unknown		20/Oct/17 17:42:03	CL, SO4
29	500-135573-B-4	RD5	Unknown		20/Oct/17 17:54:42	CL, SO4
30	500-135573-B-5	RD6	Unknown		20/Oct/17 18:07:20	CL, SO4
31	500-135573-B-5	RD7	Unknown		20/Oct/17 18:19:59	CL, SO4
32	500-135573-B-6	RD8	Unknown		20/Oct/17 18:32:37	CL, SO4
33	500-135573-B-6	RE1	Unknown		20/Oct/17 18:45:17	CL, SO4
34	500-135250-A-41	RE2	Unknown		20/Oct/17 18:57:55	CL, SO4
35	500-135250-A-41	RE3	Unknown		20/Oct/17 19:10:34	CL, SO4
36	500-135250-A-43	RE4	Unknown		20/Oct/17 19:23:13	CL, SO4
37	CCV	RA5	Check Standard	03	20/Oct/17 19:35:52	IC Stock I
38	CCB	RA6	Unknown		20/Oct/17 19:48:31	
39	500-135250-A-43	RE5	Unknown		20/Oct/17 20:01:09	CL, SO4
40	500-135250-A-45	RE6	Unknown		20/Oct/17 20:13:47	CL, SO4
41	500-135250-A-45	RE7	Unknown		20/Oct/17 20:26:26	CL, SO4
42	500-135250-A-47	RE8	Unknown		20/Oct/17 20:39:04	CL, SO4

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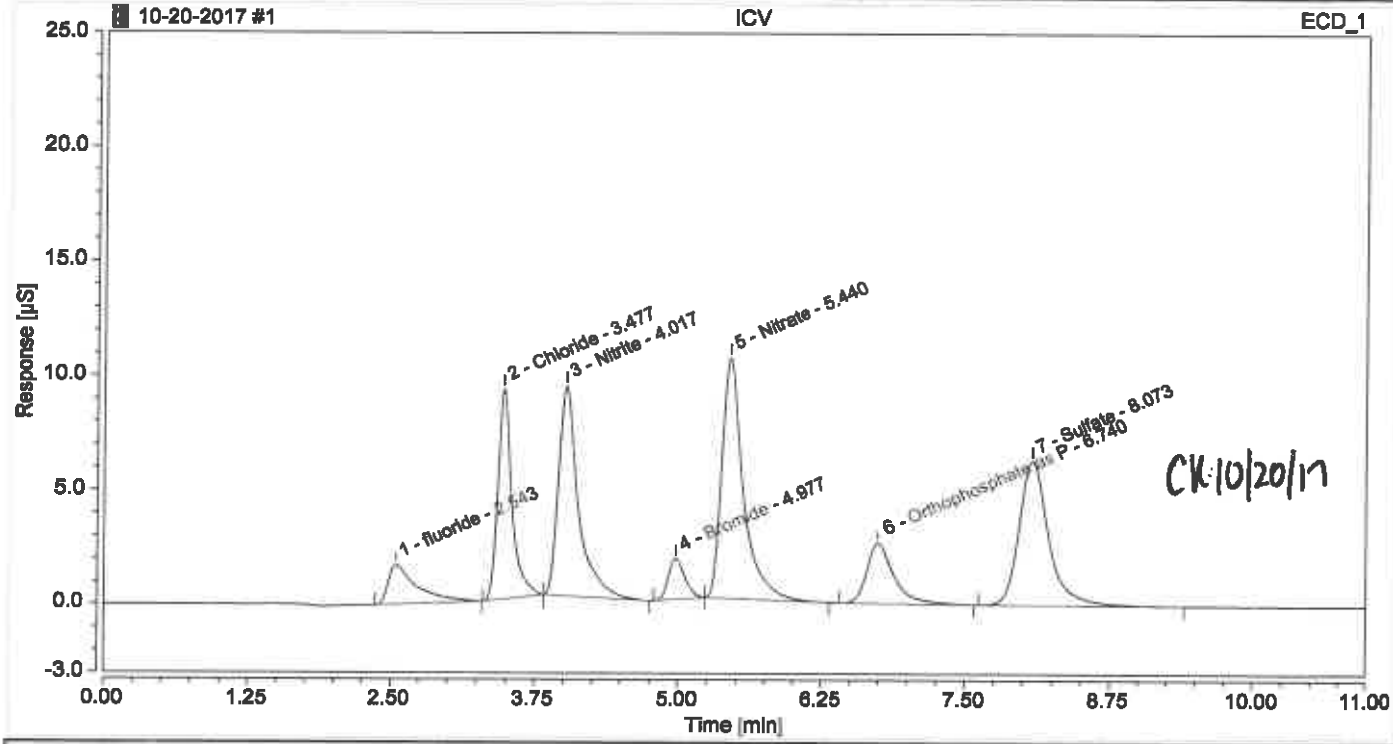
43	500-135250-A-49	BA1	Unknown		20/Oct/17 20:51:48	CL, SO4
44	500-135623-B-1	BA2	Unknown		20/Oct/17 21:04:27	CL, SO4
45	500-135623-B-1	BA3	Unknown		20/Oct/17 21:17:07	CL, SO4
46	500-135623-B-2	BA4	Unknown		20/Oct/17 21:29:46	CL, SO4
47	500-135623-B-2	BA5	Unknown		20/Oct/17 21:42:26	CL, SO4
48	500-135623-B-3	BA6	Unknown		20/Oct/17 21:55:05	
49	CCV	RA7	Check Standard	03	20/Oct/17 22:07:45	IC Stock I
50	CCB	RA8	Unknown		20/Oct/17 22:20:24	
51	500-135623-B-3	BA7	Unknown		20/Oct/17 22:33:05	CL, SO4
52	500-135628-B-1	BA8	Unknown		20/Oct/17 22:45:43	CL, SO4
53	500-135628-B-1	BB1	Unknown		20/Oct/17 22:58:22	CL, SO4
54	MB	RA3	Unknown		20/Oct/17 23:11:17	
55	LCS	RA4	Check Standard	04	20/Oct/17 23:23:56	IC Stock II
56	500-135999-L-47	BC1	Unknown		20/Oct/17 23:36:37	NO3
57	500-135999-L-47	BC2	Unknown		20/Oct/17 23:49:16	NO3
58	500-135999-L-48	BC3	Unknown		21/Oct/17 00:01:57	NO3
59	500-135999-L-48	BC4	Unknown		21/Oct/17 00:14:36	NO3
60	500-135999-L-49	BC5	Unknown		21/Oct/17 00:27:16	NO3
61	CCV	RA5	Check Standard	03	21/Oct/17 00:39:56	IC Stock I
62	CCB	RA6	Unknown		21/Oct/17 00:52:36	
63	500-135999-L-49	BC6	Unknown		21/Oct/17 01:05:16	NO3
64	500-135999-L-50	BC7	Unknown		21/Oct/17 01:17:55	NO3
65	500-135999-L-50	BC8	Unknown		21/Oct/17 01:30:34	NO3
66	500-136029-L-1	BD1	Unknown		21/Oct/17 01:43:13	CL, NO3, SO4
67	500-136029-L-1	BD2	Unknown		21/Oct/17 01:55:52	CL, NO3, SO4
68	500-136029-L-1 MS	BD3	Spiked	03	21/Oct/17 02:08:31	CL, NO3, SO4
69	500-136029-L-1 MSD	BD4	Spiked	03	21/Oct/17 02:21:09	CL, NO3, SO4
70	500-136029-L-1 MS	BD5	Spiked	03	21/Oct/17 02:33:48	CL, NO3, SO4
71	500-136029-L-1 MSD	BD6	Spiked	03	21/Oct/17 02:46:27	CL, NO3, SO4
72	CCV	RA7	Check Standard	03	21/Oct/17 02:59:07	IC Stock I
73	CCB	RA8	Unknown		21/Oct/17 03:11:46	
74	SHUTDOWN	RC2	Blank		21/Oct/17 03:22:50	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 10:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

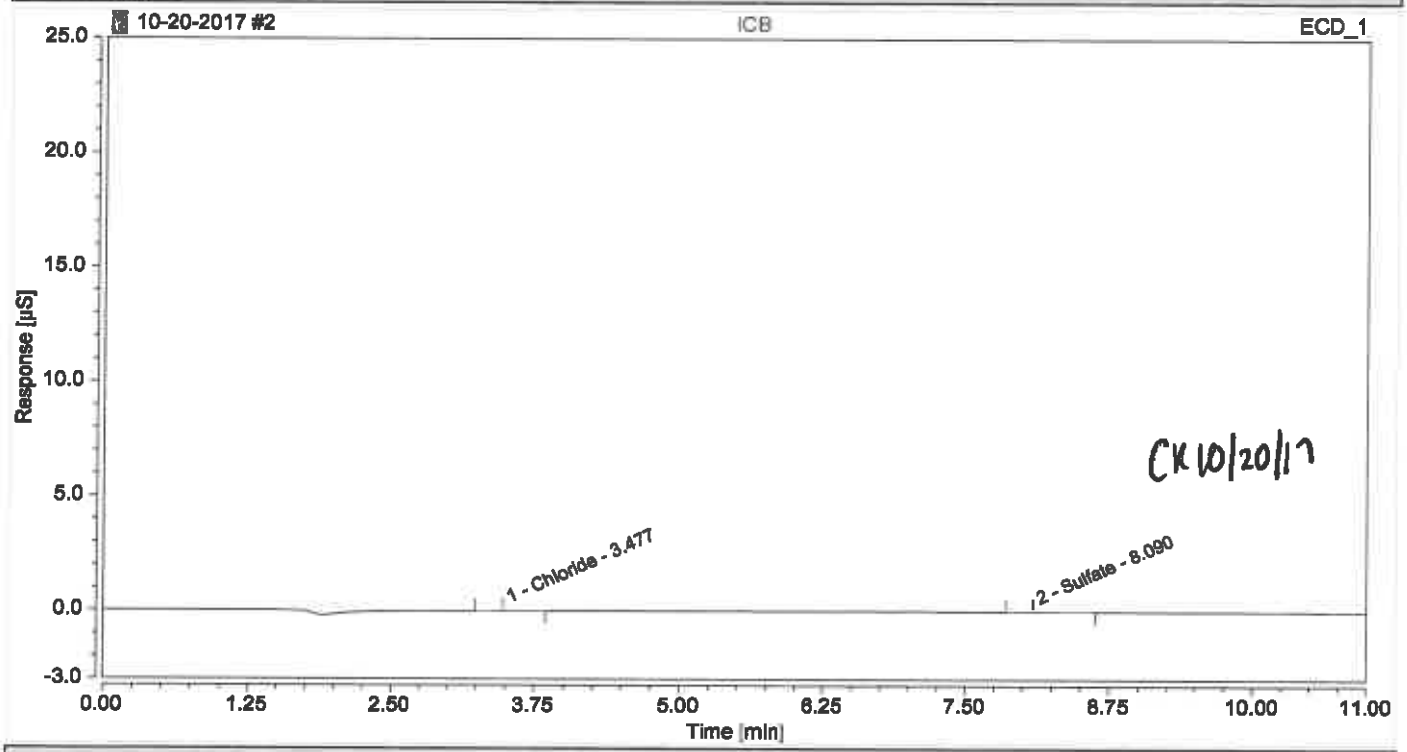
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.543	0.49662	1.712	5.60	4.13	1.0604
2	Chloride	3.477	1.33923	9.210	15.10	22.22	2.9831
3	Nitrite	4.017	1.82318	9.205	20.56	22.21	1.9630
4	Bromide	4.977	0.30667	1.798	3.46	4.34	1.9803
5	Nitrate	5.440	2.29160	10.543	25.84	25.44	2.0237
6	Orthophosphate as P	6.740	0.73279	2.644	8.26	6.38	2.2049
7	Sulfate	8.073	1.87688	6.332	21.17	15.28	5.4899
Total:			**8.867**	**41.444**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 10:58**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

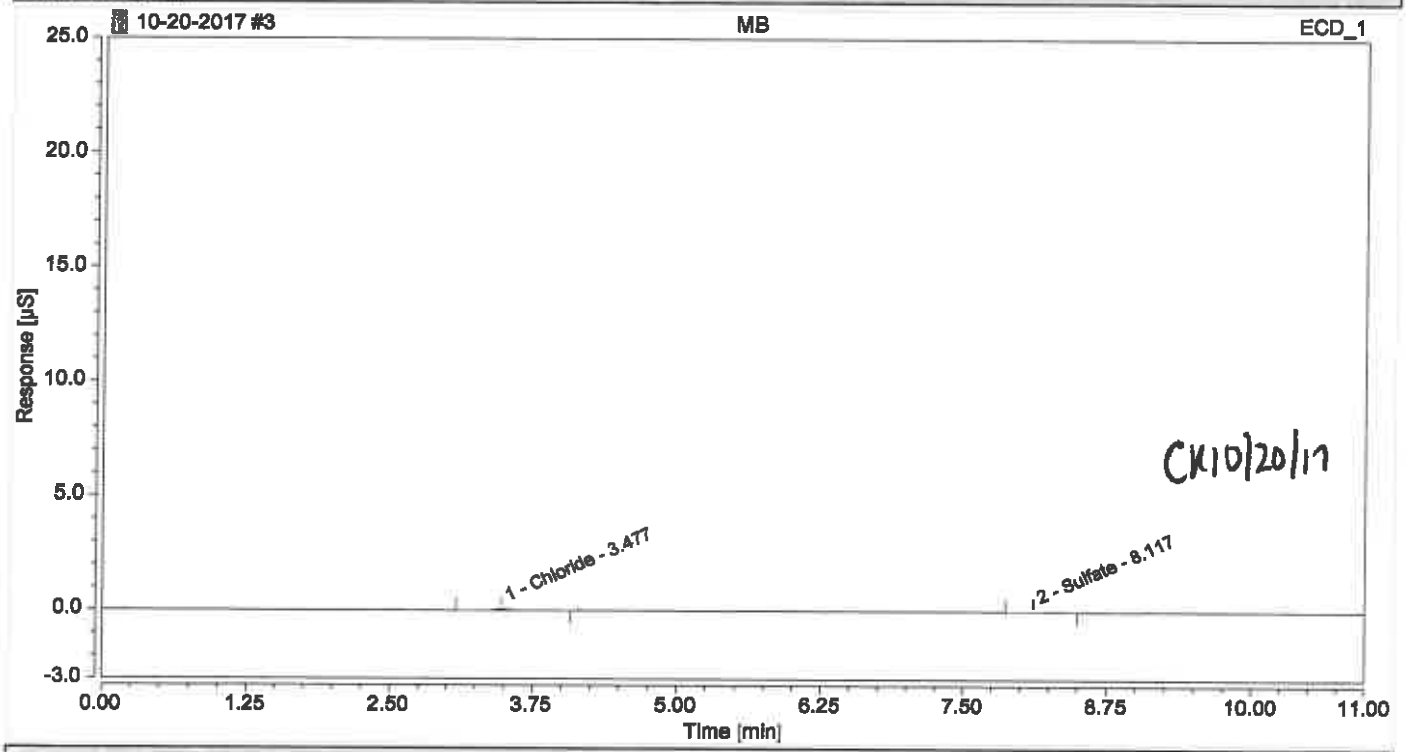
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.477	0.00529	0.031	51.94	66.01	0.1079
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.090	0.00490	0.016	48.06	33.99	0.0203
Total:			**0.010**	**0.047**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 11:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

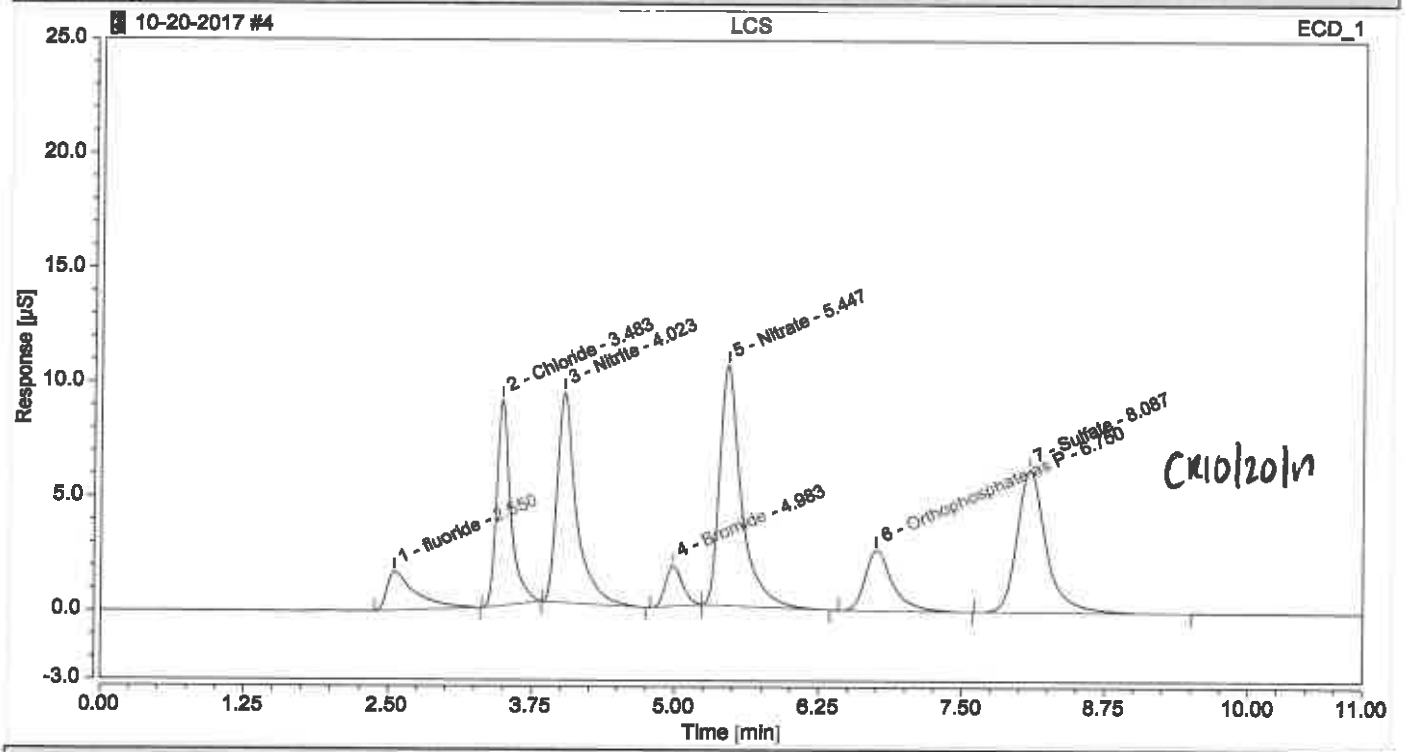
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.477	0.01475	0.067	80.83	84.34	0.1283
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.117	0.00350	0.012	19.17	15.66	0.0162
Total:			**0.018**	**0.079**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 11:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

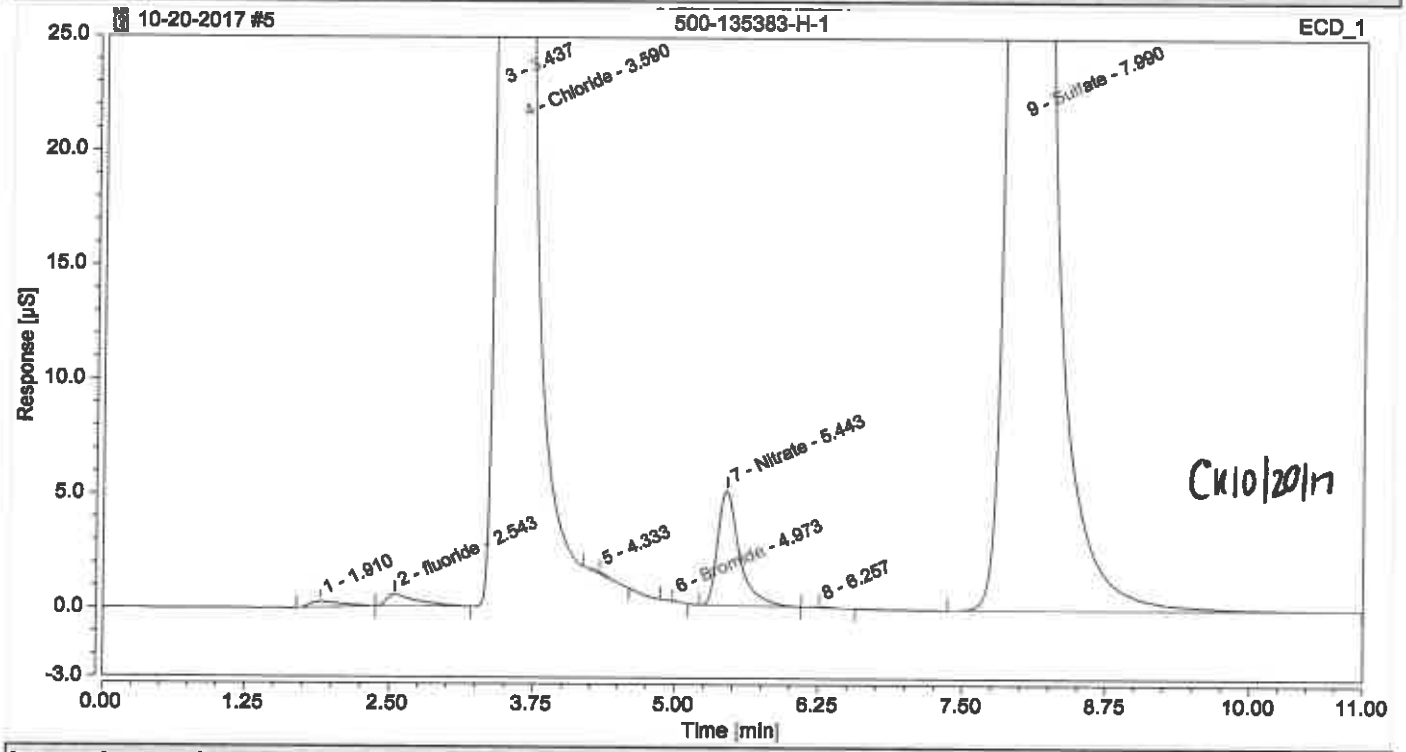
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.550	0.49253	1.706	5.56	4.14	1.0514
2	Chloride	3.483	1.32443	9.038	14.95	21.92	2.9512
3	Nitrite	4.023	1.83140	9.243	20.67	22.41	1.9716
4	Bromide	4.983	0.30803	1.799	3.48	4.36	1.9890
5	Nitrate	5.447	2.29532	10.537	25.91	25.55	2.0268
6	Orthophosphate as P	6.750	0.74051	2.660	8.36	6.45	2.2277
7	Sulfate	8.087	1.86631	6.256	21.07	15.17	5.4590
Total:			**8.859**	**41.238**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135383-H-1**	*Run Time (min):*	**11.00**
Vial Number:	**RB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 12:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

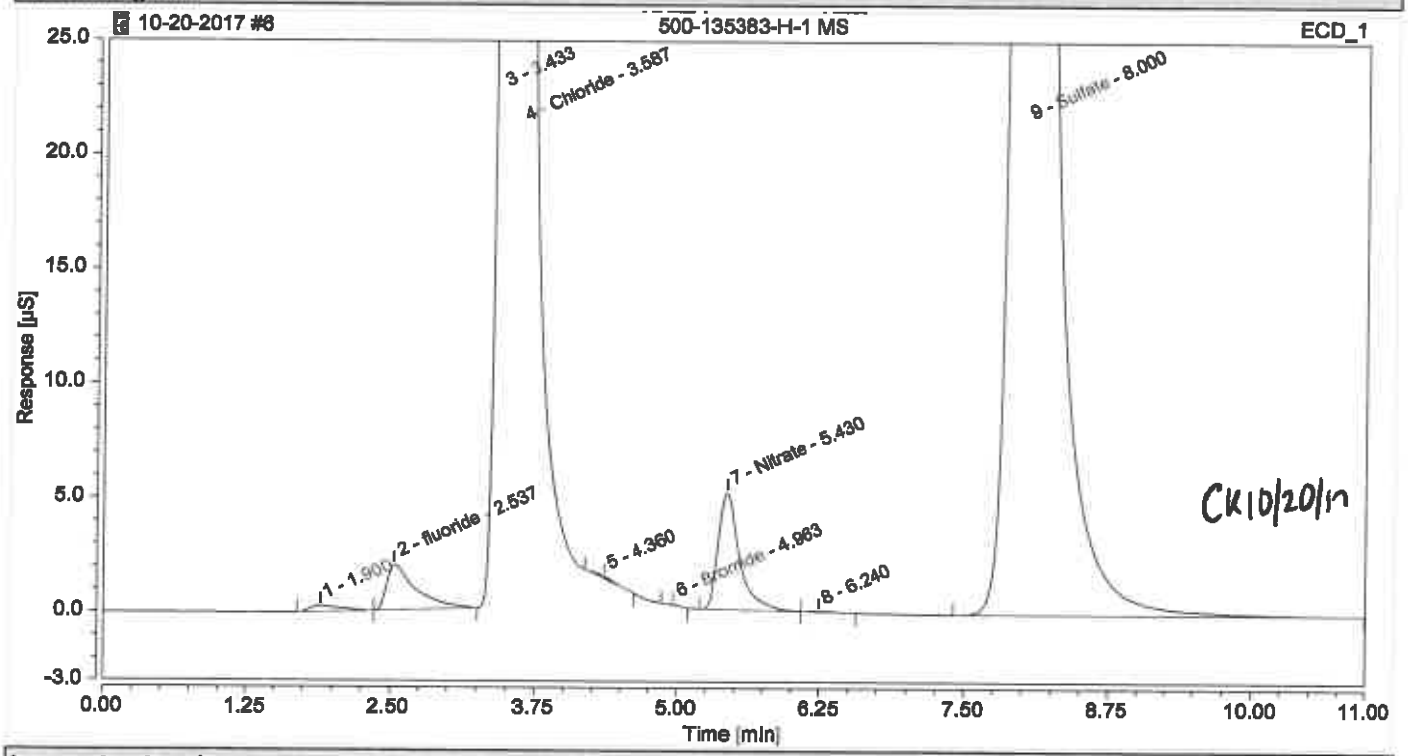
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
		1.910	0.08072	0.251	0.13	0.07	n.a.
2	fluoride	2.543	0.15732	0.524	0.25	0.15	0.3139
		3.437	0.72602	14.792	1.16	4.13	n.a.
4	Chloride	3.590	21.60457	204.571	34.49	57.13	46.6642
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.333	0.01512	0.073	0.02	0.02	n.a.
6	Bromide	4.973	0.00448	0.038	0.01	0.01	0.0549
7	Nitrate	5.443	1.07915	5.024	1.72	1.40	0.9816
8		6.257	0.00904	0.039	0.01	0.01	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	Sulfate	7.990	38.96146	132.785	62.20	37.08	113.8436
Total:			**62.638**	**358.097**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135383-H-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RB2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 13:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

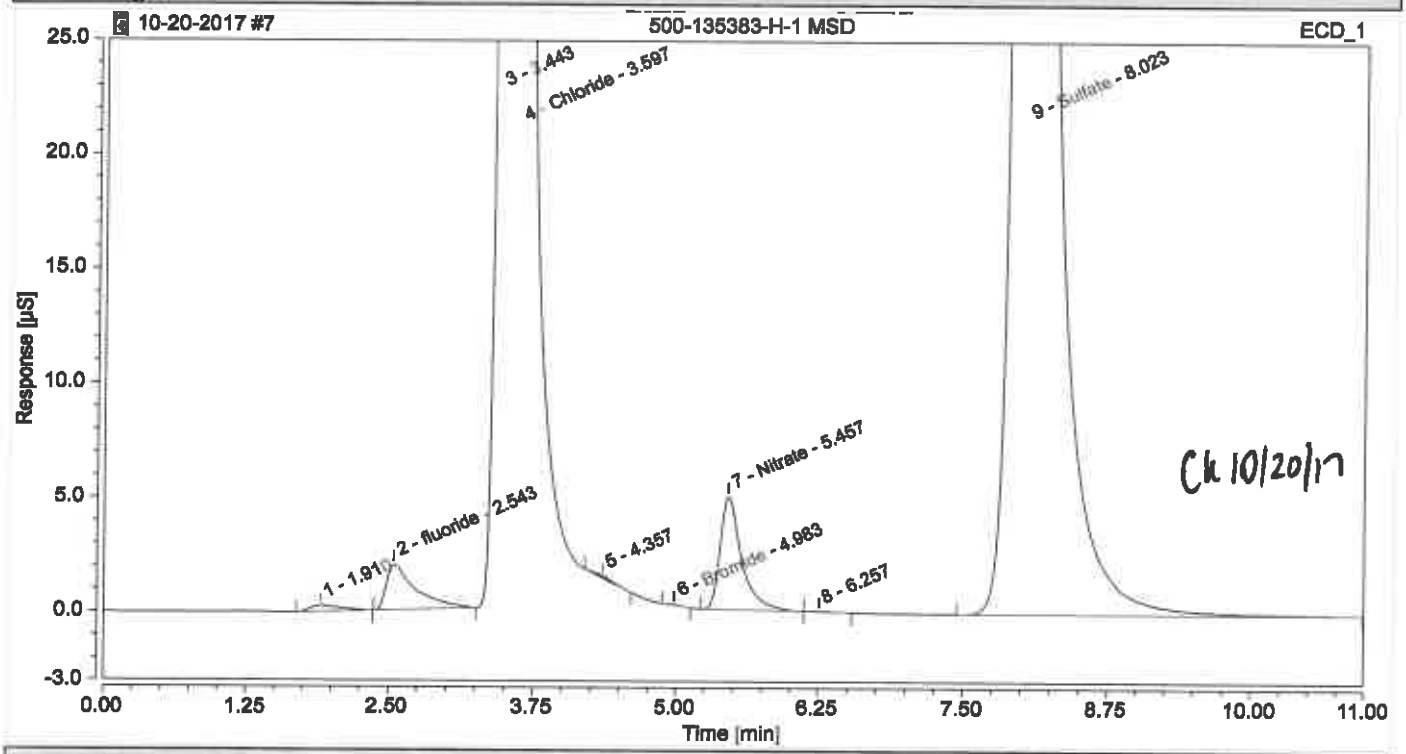
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.900	0.08075	0.256	0.13	0.07	n.a.
2	fluoride	2.537	0.58311	1.999	0.91	0.55	1.2506
3		3.433	0.73015	15.015	1.13	4.12	n.a.
4	Chloride	3.587	22.10593	206.904	34.36	56.74	47.7449
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.360	0.02227	0.107	0.03	0.03	n.a.
6	Bromide	4.963	0.00458	0.040	0.01	0.01	0.0556
7	Nitrate	5.430	1.09744	5.120	1.71	1.40	0.9973
8		6.240	0.00895	0.039	0.01	0.01	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	Sulfate	8.000	39.69886	135.147	61.71	37.06	115.9981
Total:			**64.332**	**364.627**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135383-H-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**RB3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 13:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

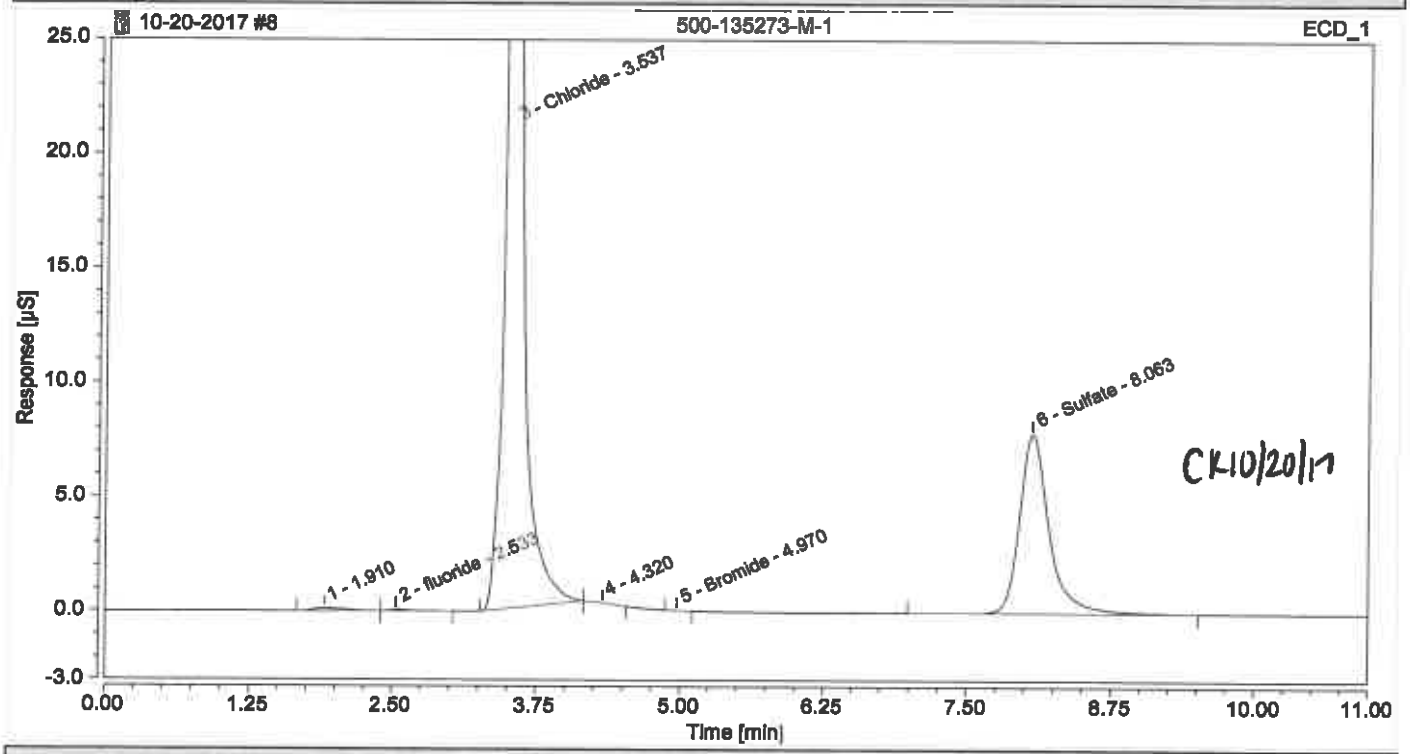
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.08105	0.256	0.13	0.07	n.a.
2	fluoride	2.543	0.58523	1.985	0.91	0.55	1.2553
3		3.443	0.76779	15.608	1.20	4.29	n.a.
4	Chloride	3.597	21.94896	206.008	34.17	56.63	47.4066
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.357	0.01964	0.096	0.03	0.03	n.a.
6	Bromide	4.983	0.00472	0.039	0.01	0.01	0.0564
7	Nitrate	5.457	1.07046	4.949	1.67	1.36	0.9741
8		6.257	0.00529	0.026	0.01	0.01	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	Sulfate	8.023	39.75129	134.784	61.88	37.05	116.1513
Total:			**64.234**	**363.753**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-1**	*Run Time (min):*	**11.00**
Vial Number:	**RB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**20/Oct/17 13:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

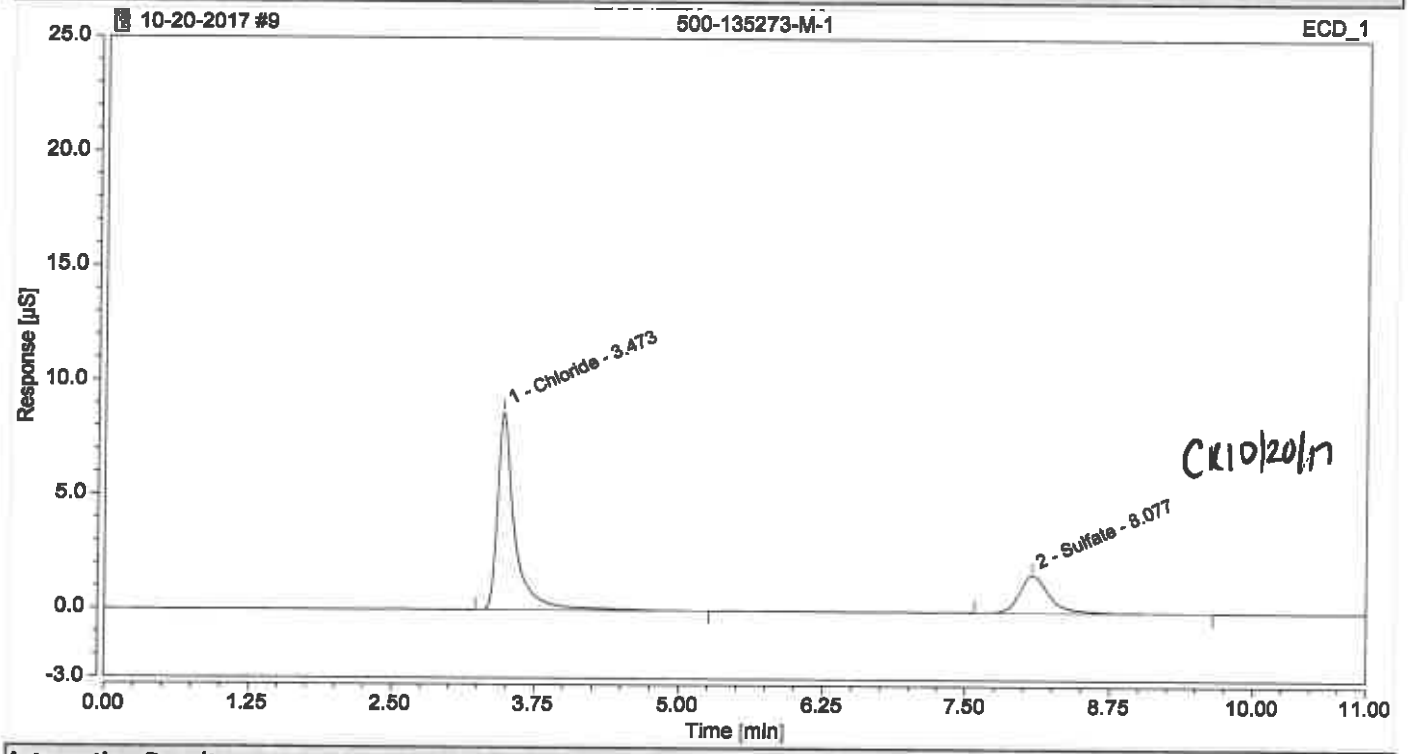
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.03626	0.108	0.35	0.16	n.a.
2	fluoride	2.533	0.01264	0.051	0.12	0.08	n.a.
3	Chloride OK	3.537	8.13198	57.474	77.37	87.73	35.2493
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.320	0.00267	0.014	0.03	0.02	n.a.
5	Bromide	4.970	0.00066	0.006	0.01	0.01	0.0611
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.063	2.32669	7.859	22.14	12.00	13.6082
Total:			**10.511**	**65.510**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-1**	*Run Time (min):*	**11.00**
Vial Number:	**RB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 13:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

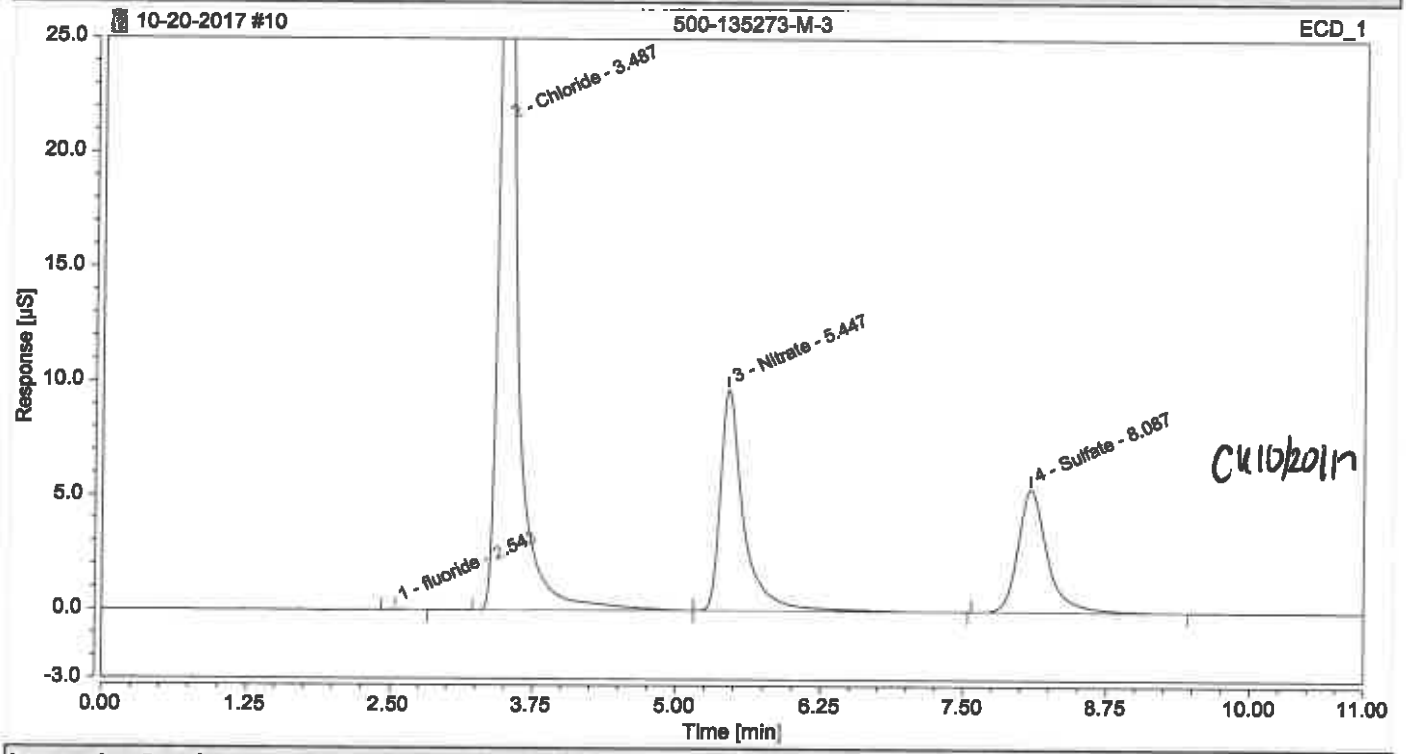
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.473	1.55574	8.658	75.03	83.99	34.4979
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate RE	8.077	0.51776	1.650	24.97	16.01	15.1876
Total:			**2.073**	**10.308**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3**	*Run Time (min):*	**11.00**
Vial Number:	**RB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**20/Oct/17 13:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

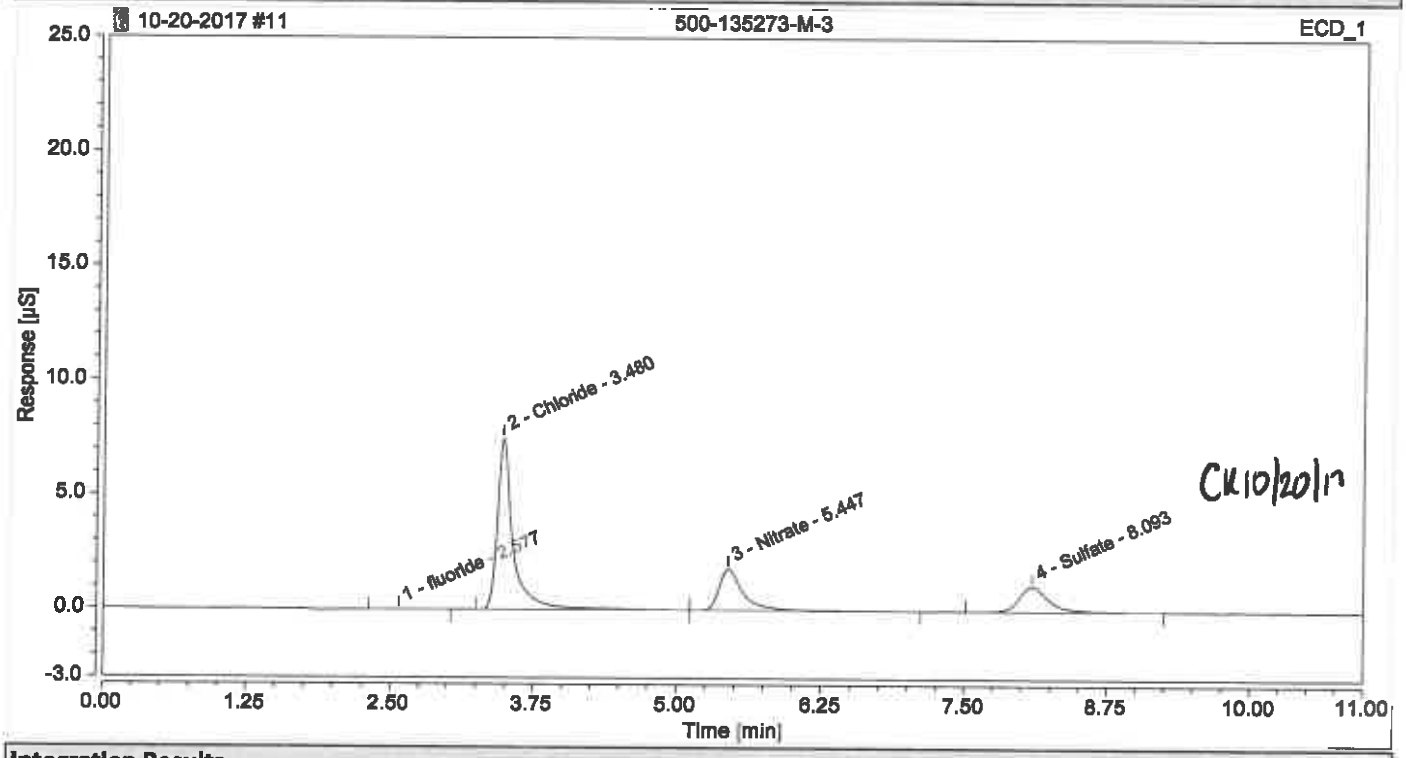
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.543	0.00518	0.027	0.05	0.05	n.a.
2	Chloride OK	3.487	7.06269	43.302	64.53	74.15	30.6396
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.447	2.25386	9.674	20.59	16.57	3.9824
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.087	1.62248	5.396	14.82	9.24	9.4931
Total:			10.944	58.398	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3**	*Run Time (min):*	**11.00**
Vial Number:	**RB7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 14:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

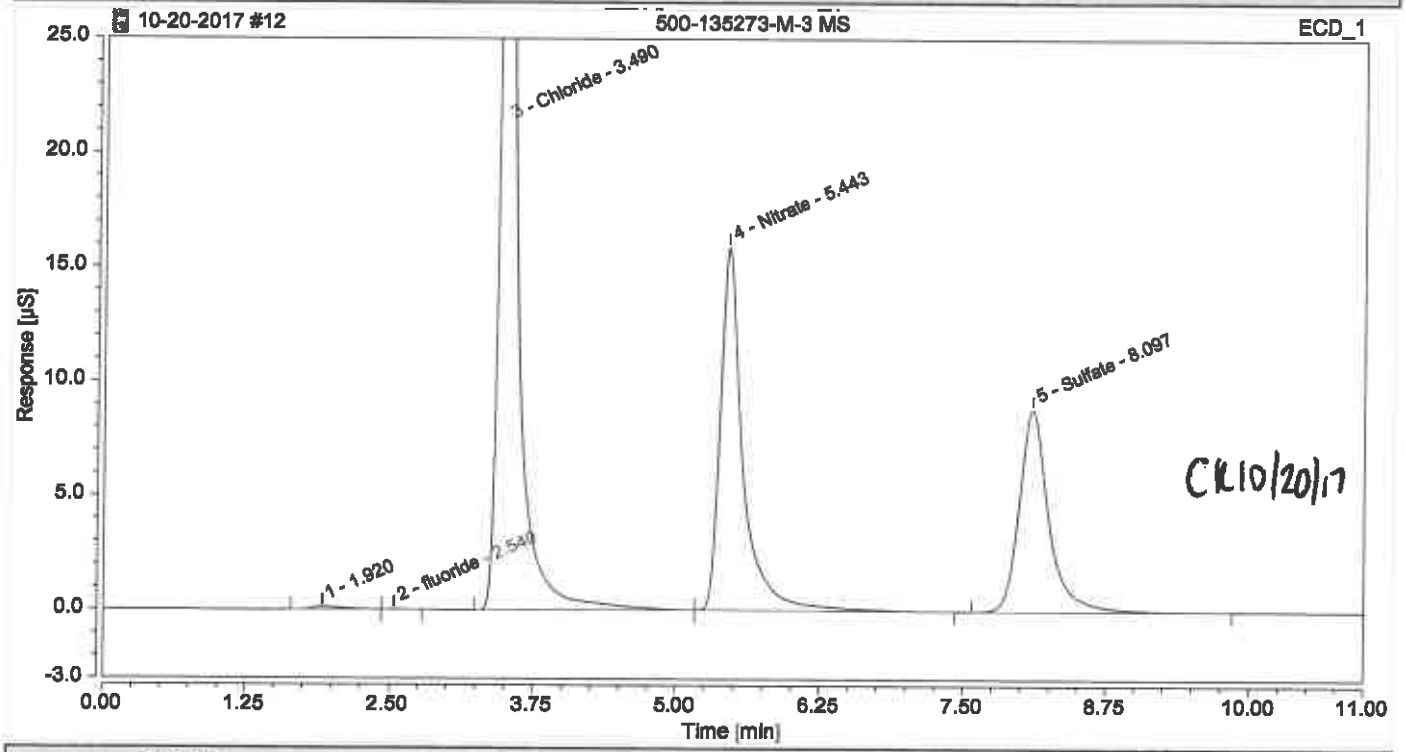
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.577	0.00343	0.009	0.17	0.08	n.a.
2	Chloride	3.480	1.25614	7.514	61.56	71.90	28.0401
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate KE	5.447	0.43742	1.820	21.44	17.42	4.3005
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate KE	8.093	0.34362	1.107	16.84	10.59	10.0996
Total:			**2.041**	**10.450**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RB8**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**20/Oct/17 14:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

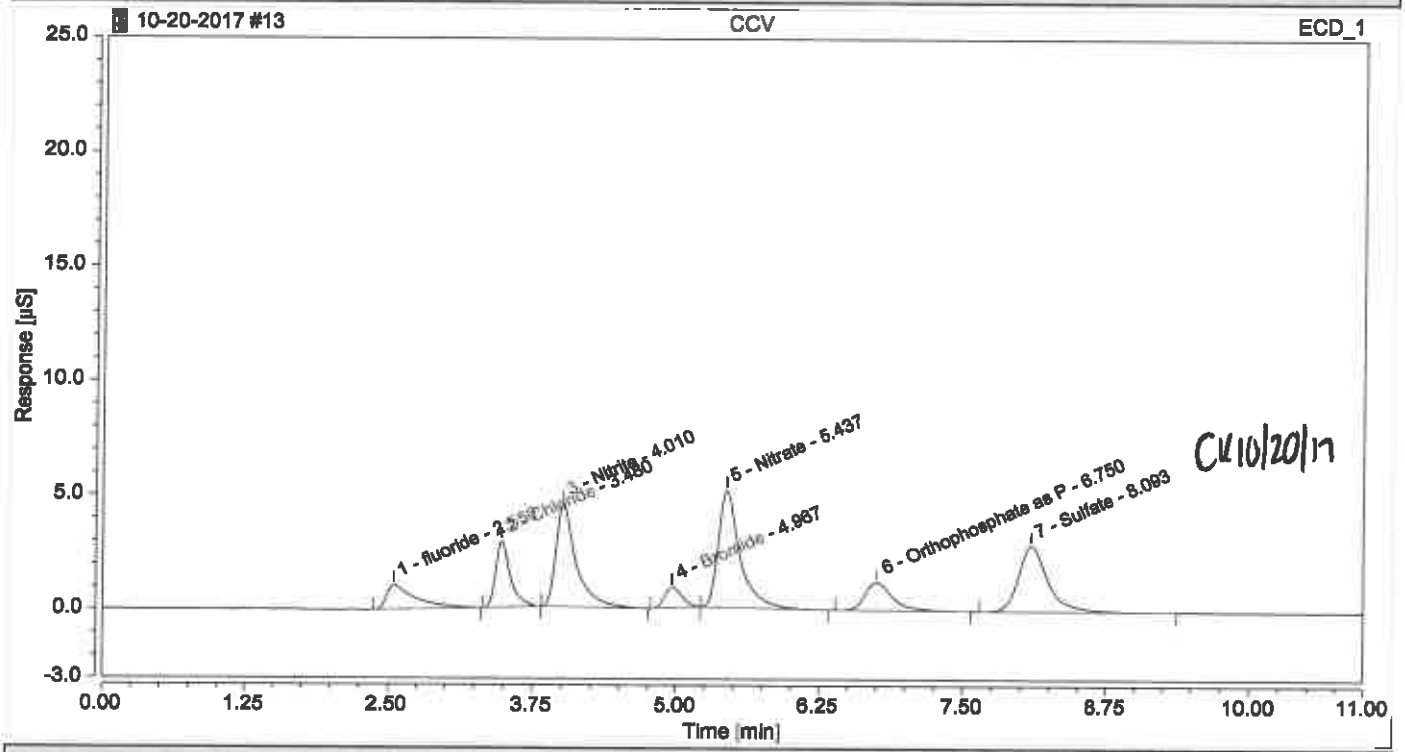
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.920	0.03703	0.104	0.27	0.15	n.a.
2	fluoride	2.540	0.00354	0.023	0.03	0.03	n.a.
3	Chloride	3.490	7.24485	43.493	53.15	63.62	31.4249
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.443	3.67051	15.889	26.93	23.24	6.4176
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.097	2.67433	8.858	19.62	12.96	15.6397
Total:			**13.630**	**68.368**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 14:31**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

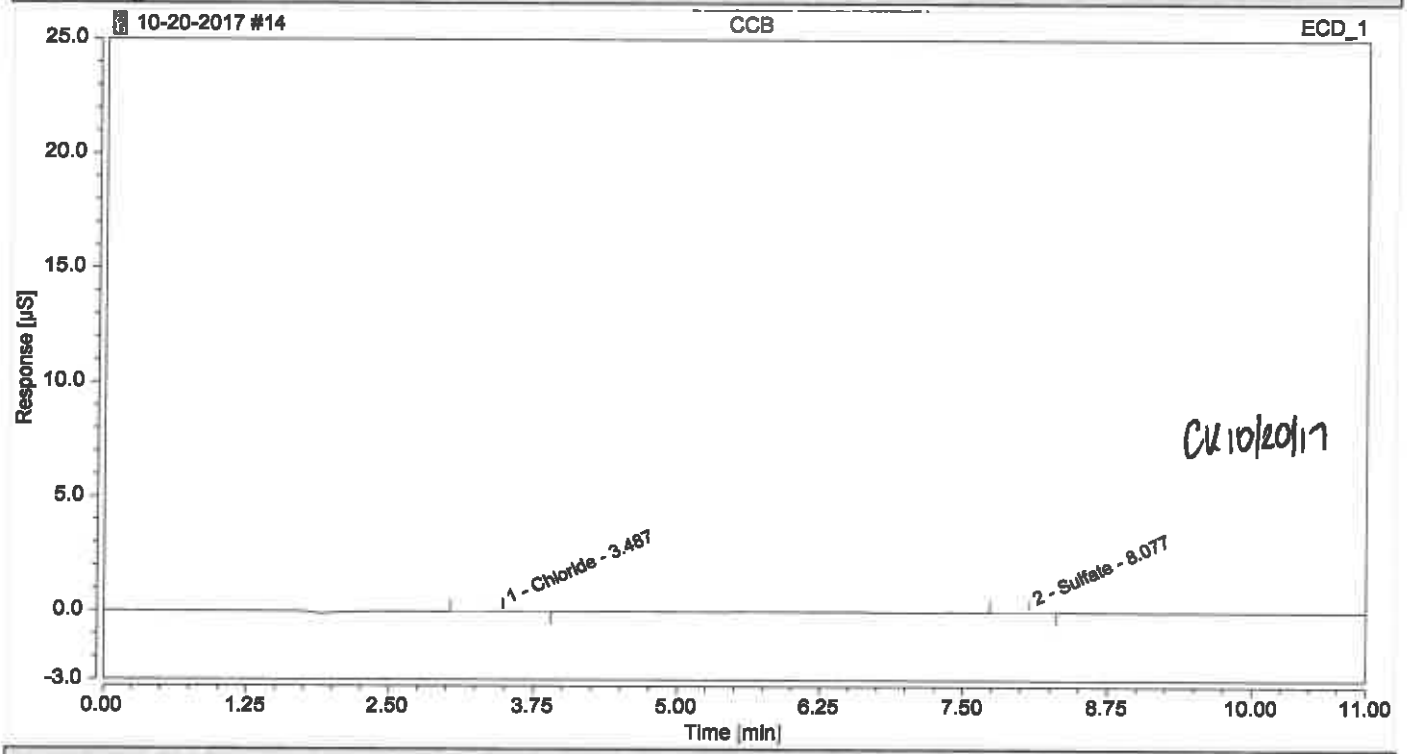
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.550	0.31470	1.074	7.55	5.74	0.6601
2	Chloride	3.480	0.43126	2.909	10.35	15.56	1.0260
3	Nitrite	4.010	0.90927	4.535	21.83	24.26	1.0090
4	Bromide	4.967	0.15554	0.903	3.73	4.83	1.0174
5	Nitrate	5.437	1.13366	5.139	27.21	27.49	1.0284
6	Orthophosphate as P	6.750	0.34507	1.227	8.28	6.56	1.0603
7	Sulfate	8.093	0.87640	2.905	21.04	15.54	2.5667
Total:			**4.166**	**18.691**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 14:44**	*Sample Weight:*	**1.0000**

Chromatogram



CK 10/20/17

Integration Results

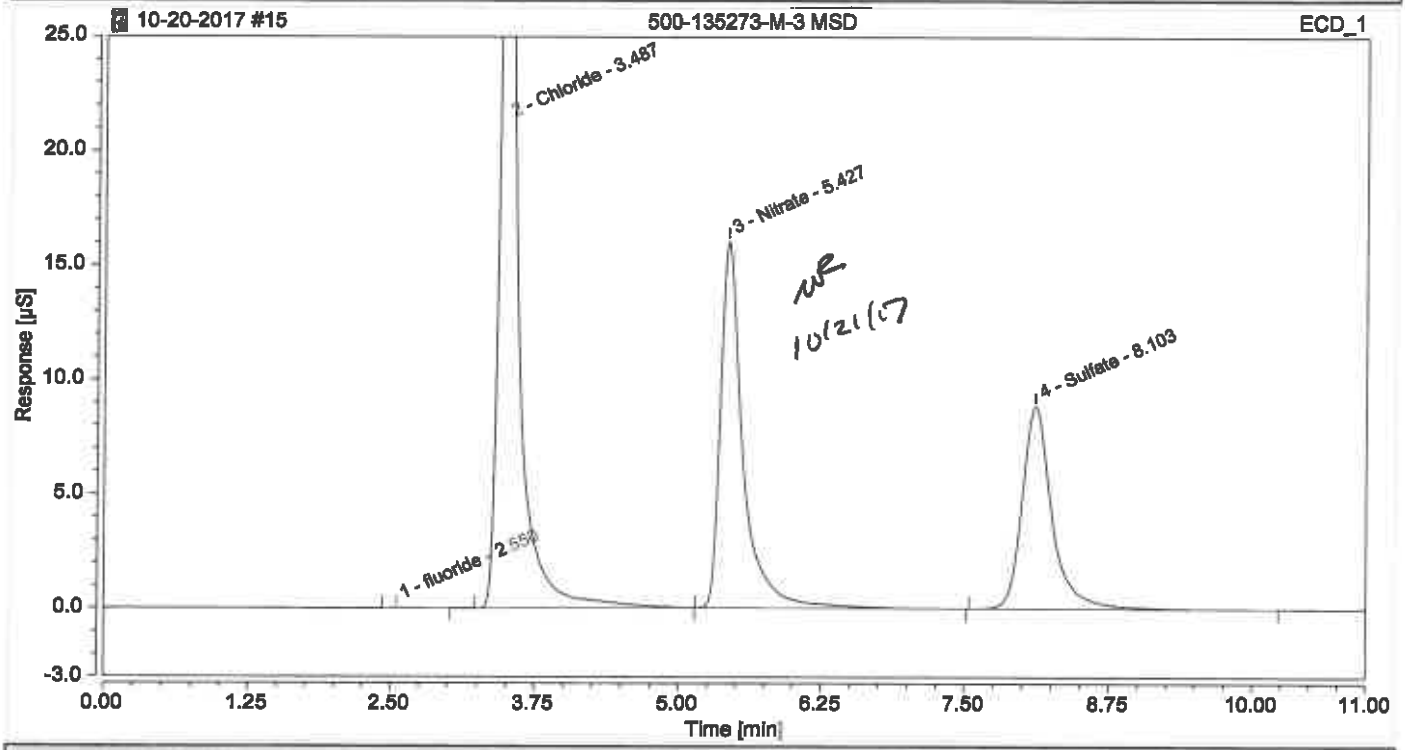
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.487	0.00514	0.018	66.67	62.39	0.1075
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.077	0.00257	0.011	33.33	37.61	0.0135
Total:			**0.008**	**0.028**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**RC1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**20/Oct/17 14:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

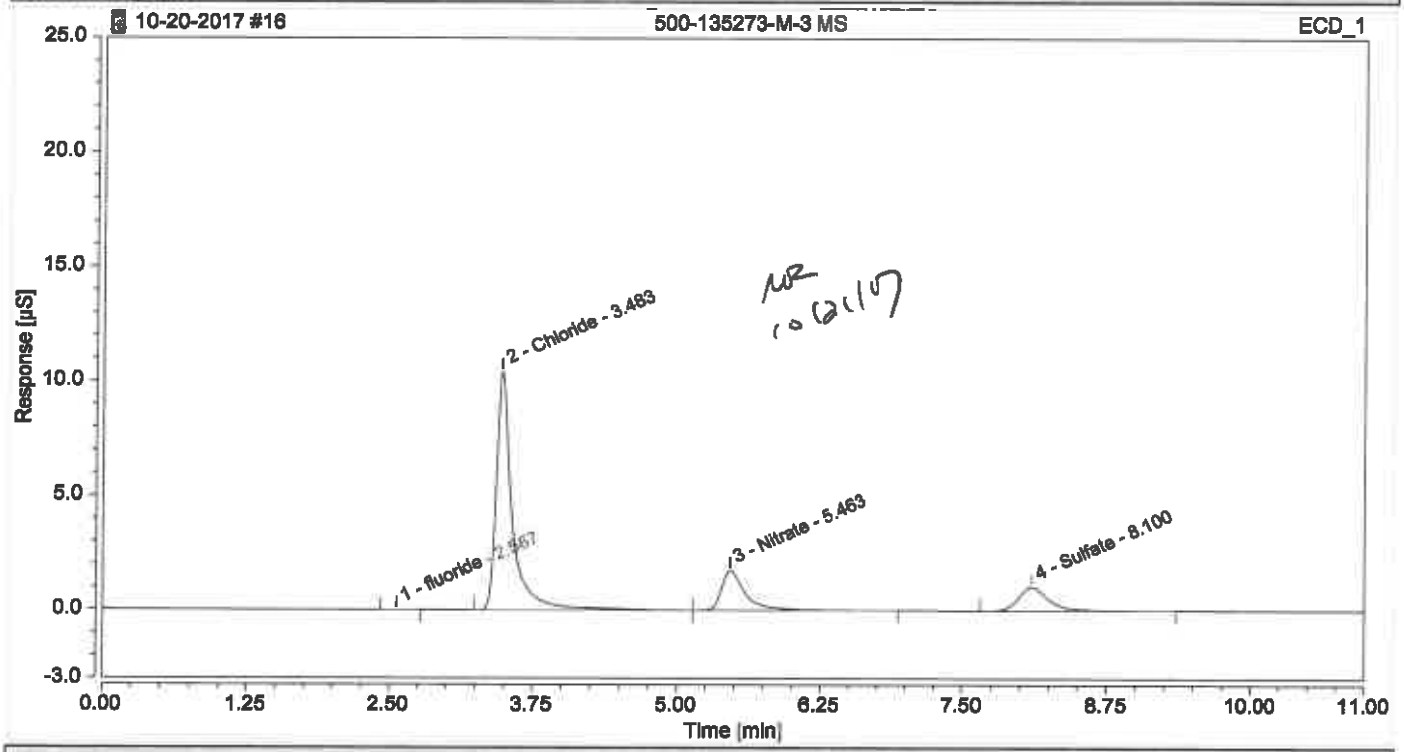
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.550	0.00836	0.032	0.06	0.05	n.a.
2	Chloride	3.487	7.24303	44.108	53.28	63.86	31.4171
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.427	3.66560	16.036	26.96	23.22	6.4091
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.103	2.67713	8.891	19.69	12.87	15.6560
Total:			**13.594**	**69.066**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RC2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 15:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

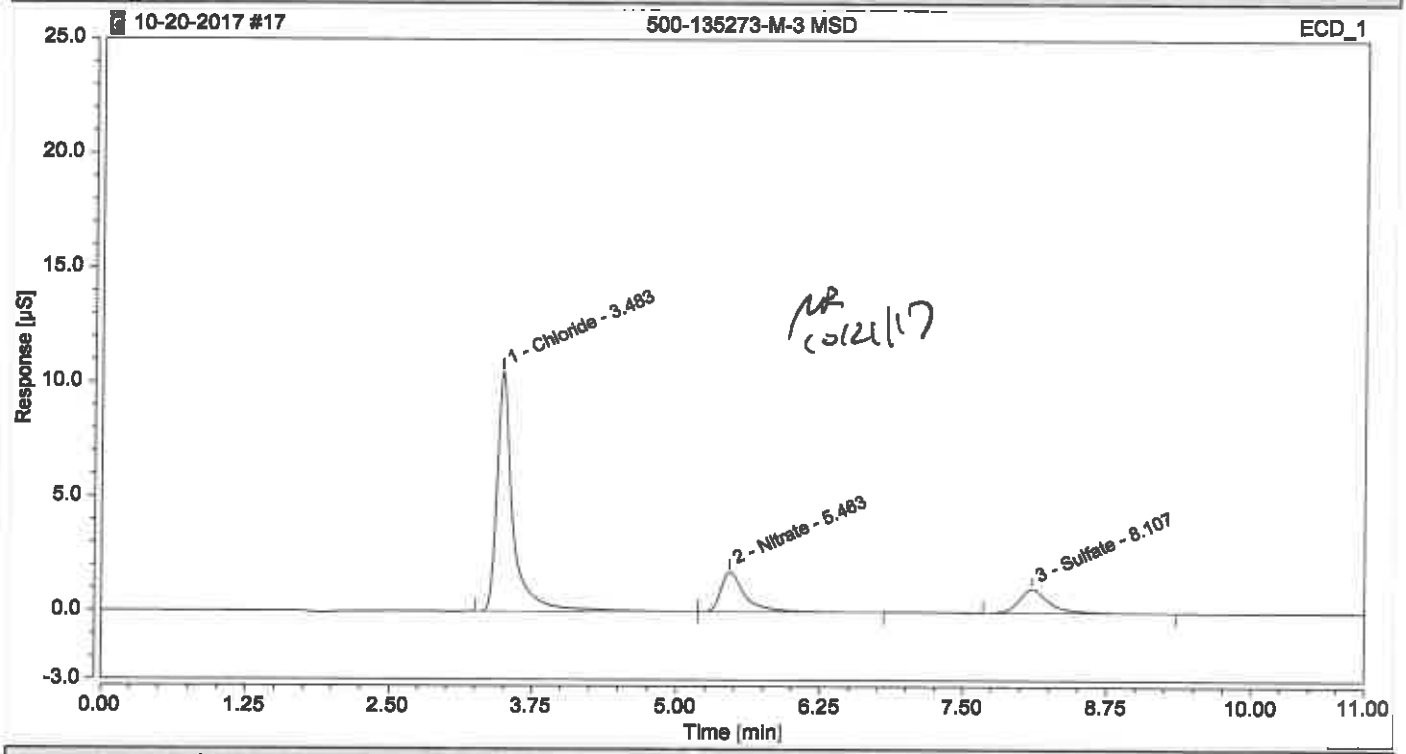
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.567	0.00169	0.010	0.07	0.07	n.a.
2	Chloride	3.483	1.74142	10.448	69.96	78.90	38.5002
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.463	0.42539	1.743	17.09	13.16	4.1971
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.100	0.32057	1.041	12.88	7.86	9.4263
Total:			**2.489**	**13.241**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135273-M-3 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**RC3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 15:22**	*Sample Weight:*	**1.0000**

Chromatogram



MR 10/24/17

Integration Results

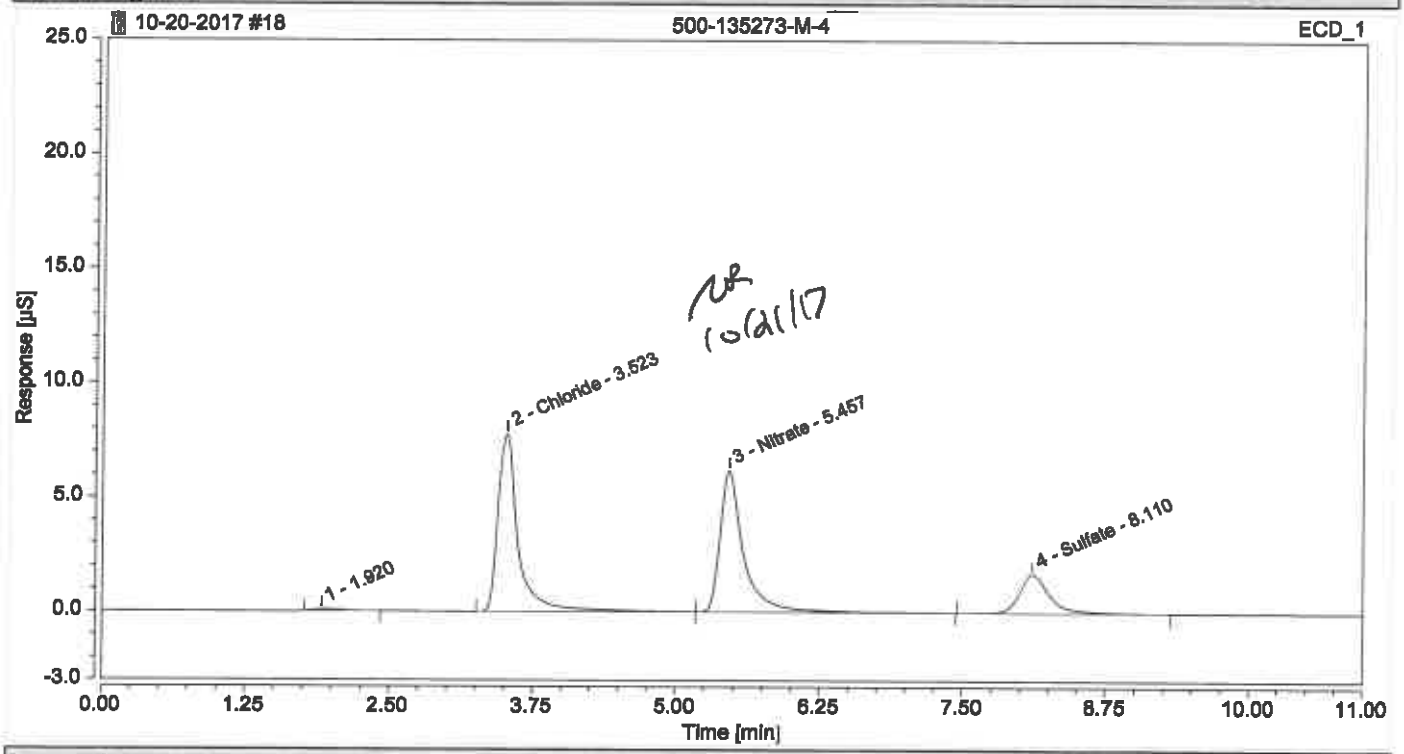
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.483	1.75008	10.492	70.31	79.00	38.6868
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.463	0.41815	1.748	16.80	13.16	4.1349
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.107	0.32103	1.041	12.90	7.84	9.4397
Total:			**2.489**	**13.281**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-135273-M-4	*Run Time (min):*	11.00
Vial Number:	RC4	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	CL, NO3, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	5.0000
Injection Date/Time:	20/Oct/17 15:35	*Sample Weight:*	1.0000

Chromatogram



Integration Results

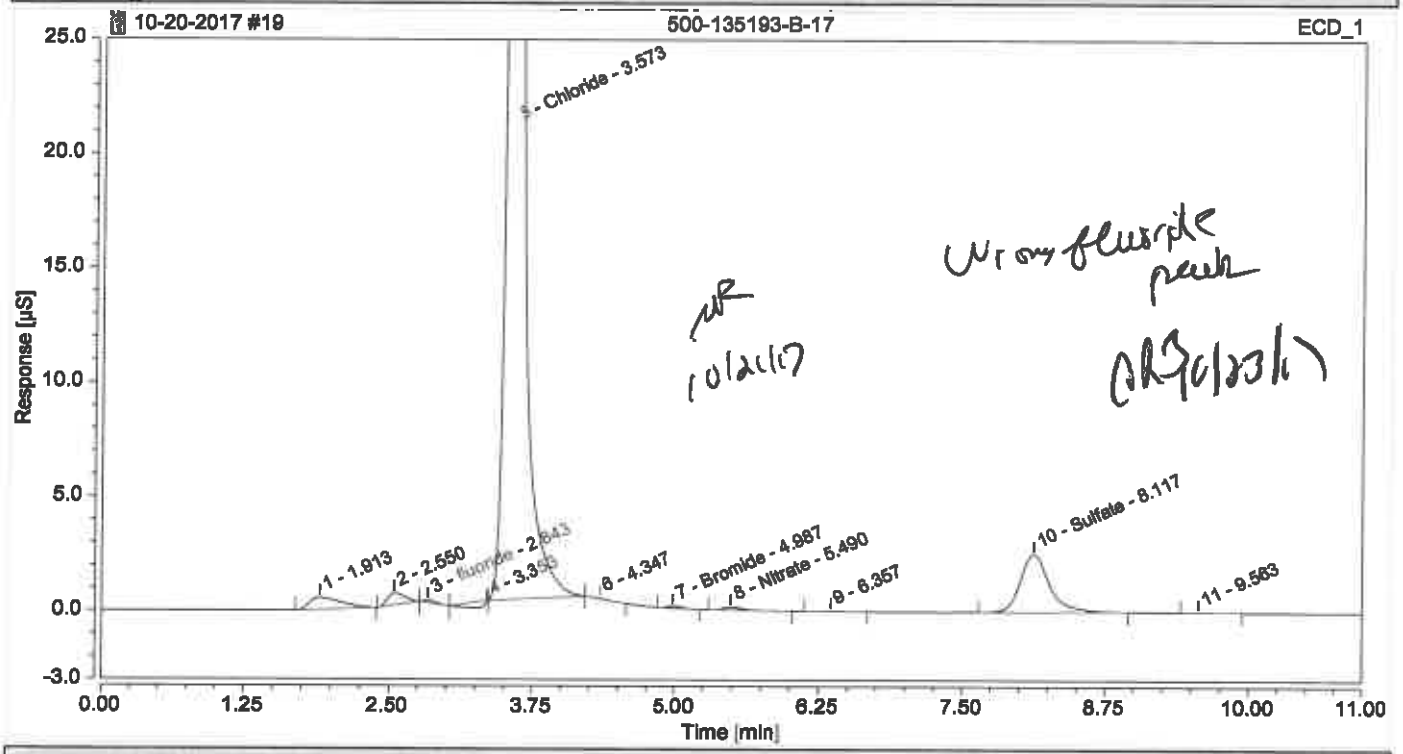
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.920	0.02308	0.069	0.63	0.43	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.523	1.64805	7.808	44.90	49.45	18.2439
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.457	1.47030	6.204	40.06	39.29	6.5889
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.110	0.52926	1.709	14.42	10.83	7.7618
Total:			**3.671**	**15.790**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**RC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 15:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

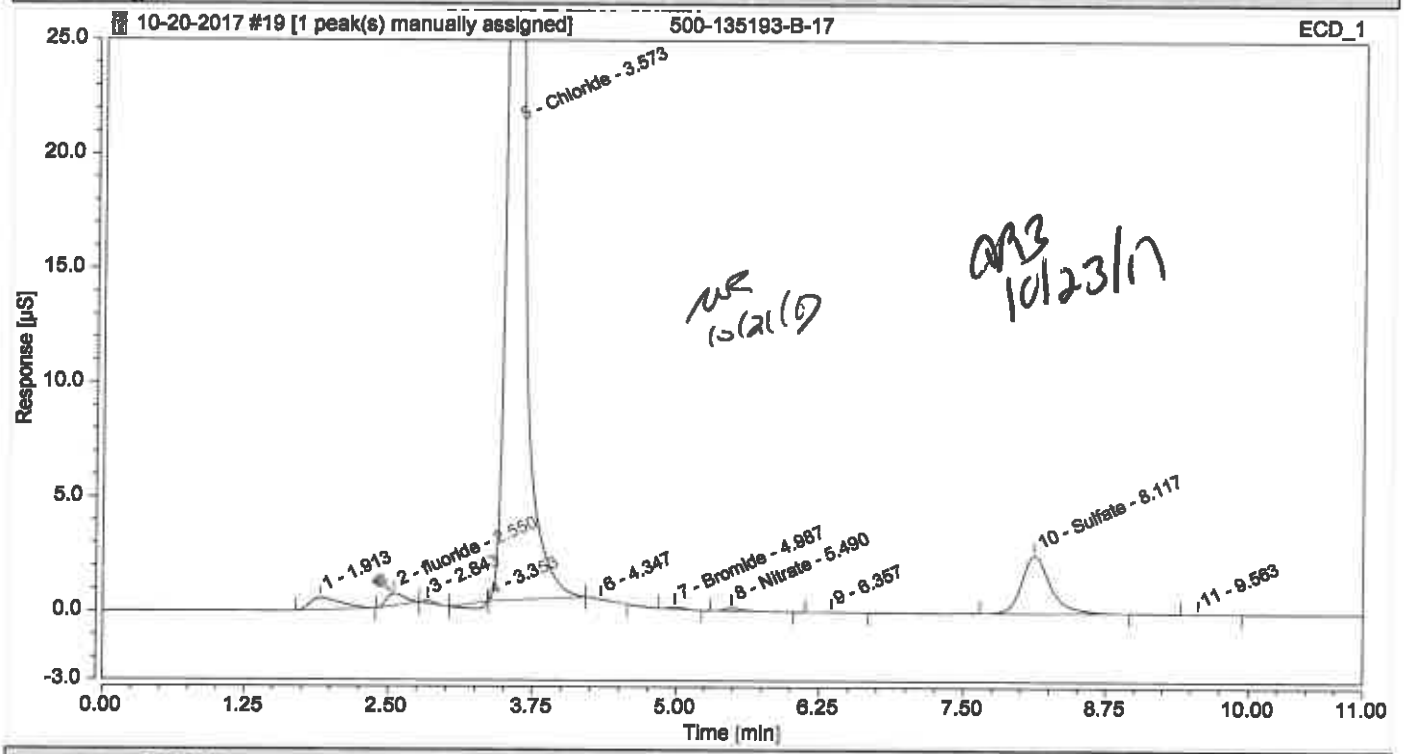
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.16861	0.529	1.45	0.61	n.a.
2		2.550	0.09475	0.531	0.81	0.62	n.a.
3	fluoride	2.843	0.01357	0.112	0.12	0.13	n.a.
4		3.353	0.05422	0.058	0.47	0.07	n.a.
5	Chloride	3.573	10.49202	82.182	90.25	95.31	22.7116
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		4.347	0.00513	0.025	0.04	0.03	n.a.
7	Bromide	4.987	0.01320	0.084	0.11	0.10	0.1104
8	Nitrate	5.490	0.02742	0.135	0.24	0.16	0.0777
9		6.357	0.00396	0.017	0.03	0.02	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	Sulfate	8.117	0.75093	2.542	6.46	2.95	2.2000
11		9.563	0.00193	0.009	0.02	0.01	n.a.
Total:			**11.626**	**86.224**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**RC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 15:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

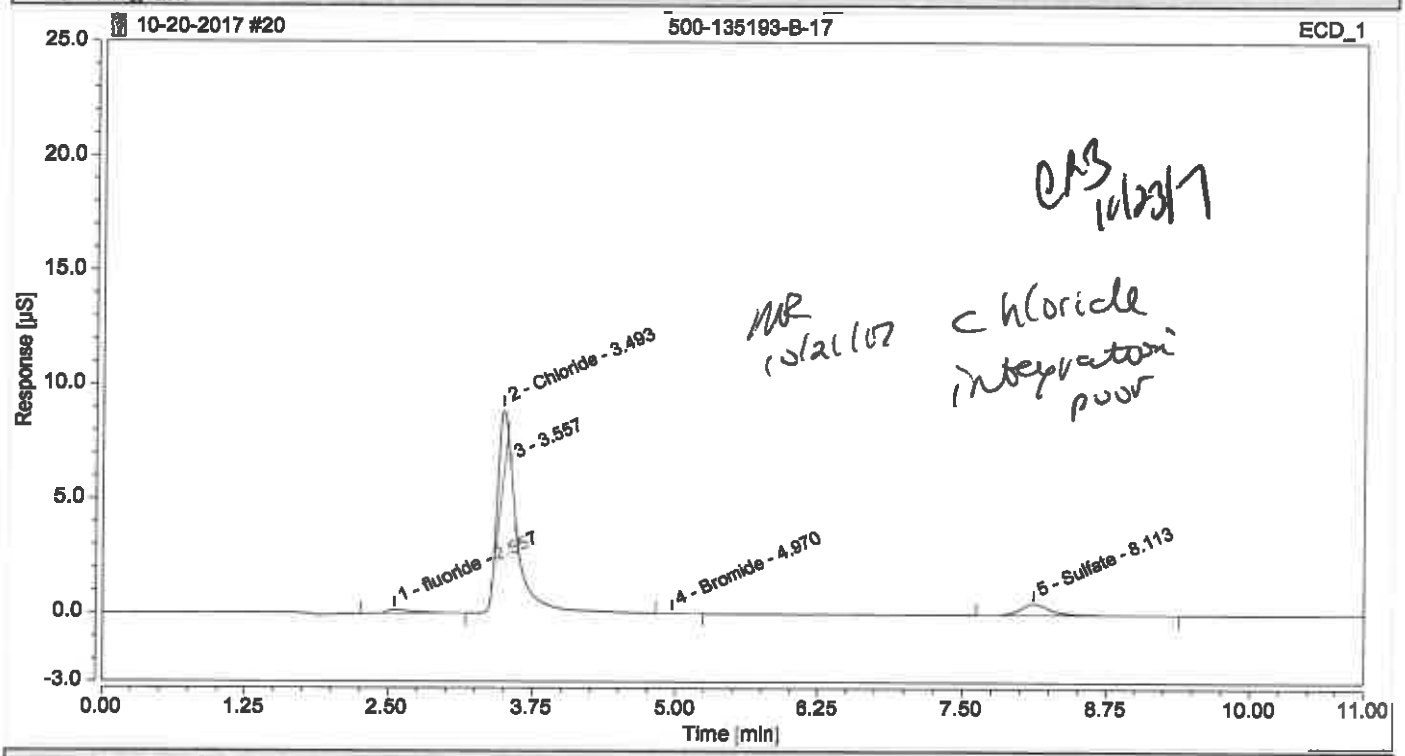
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.16861	0.529	1.45	0.61	n.a.
2	fluoride MI	2.550	0.09475	0.531	0.81	0.62	0.1762
3		2.843	0.01357	0.112	0.12	0.13	n.a.
4		3.353	0.05422	0.058	0.47	0.07	n.a.
5	Chloride OM	3.573	10.49202	82.182	90.25	95.31	22.7116
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		4.347	0.00513	0.025	0.04	0.03	n.a.
7	Bromide	4.987	0.01320	0.084	0.11	0.10	0.1104
8	Nitrate	5.490	0.02742	0.135	0.24	0.16	0.0777
9		6.357	0.00396	0.017	0.03	0.02	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	Sulfate	8.117	0.75093	2.542	6.46	2.95	2.2000
11		9.563	0.00193	0.009	0.02	0.01	n.a.
Total:			**11.626**	**86.224**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**RC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**20/Oct/17 16:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

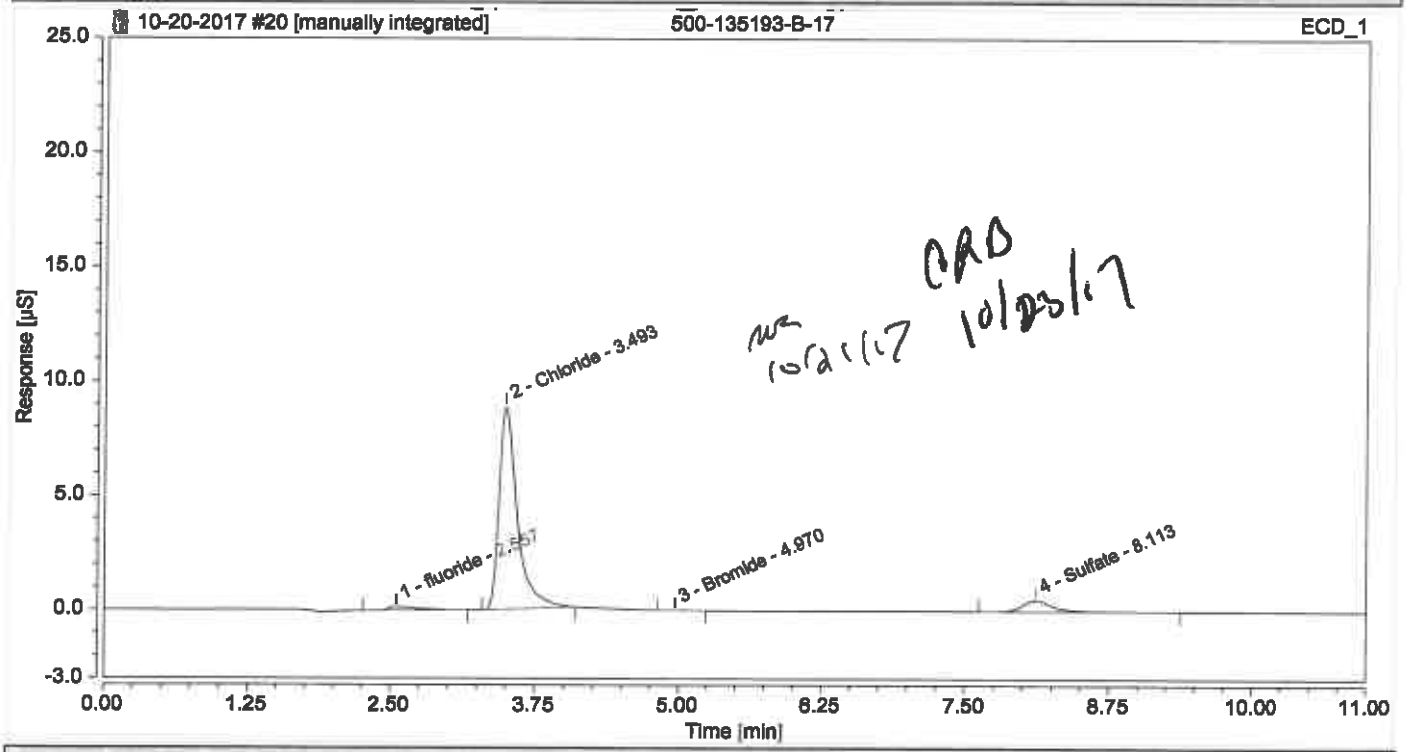
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.557	0.04682	0.156	9.78	4.21	0.3537
2	Chloride	3.493	0.26713	2.984	55.79	80.37	3.3612
3		3.557	0.00132	0.061	0.28	1.65	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.970	0.00261	0.016	0.55	0.42	0.2149
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.113	0.16093	0.495	33.61	13.34	2.3809
Total:			**0.479**	**3.713**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**RC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**20/Oct/17 16:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

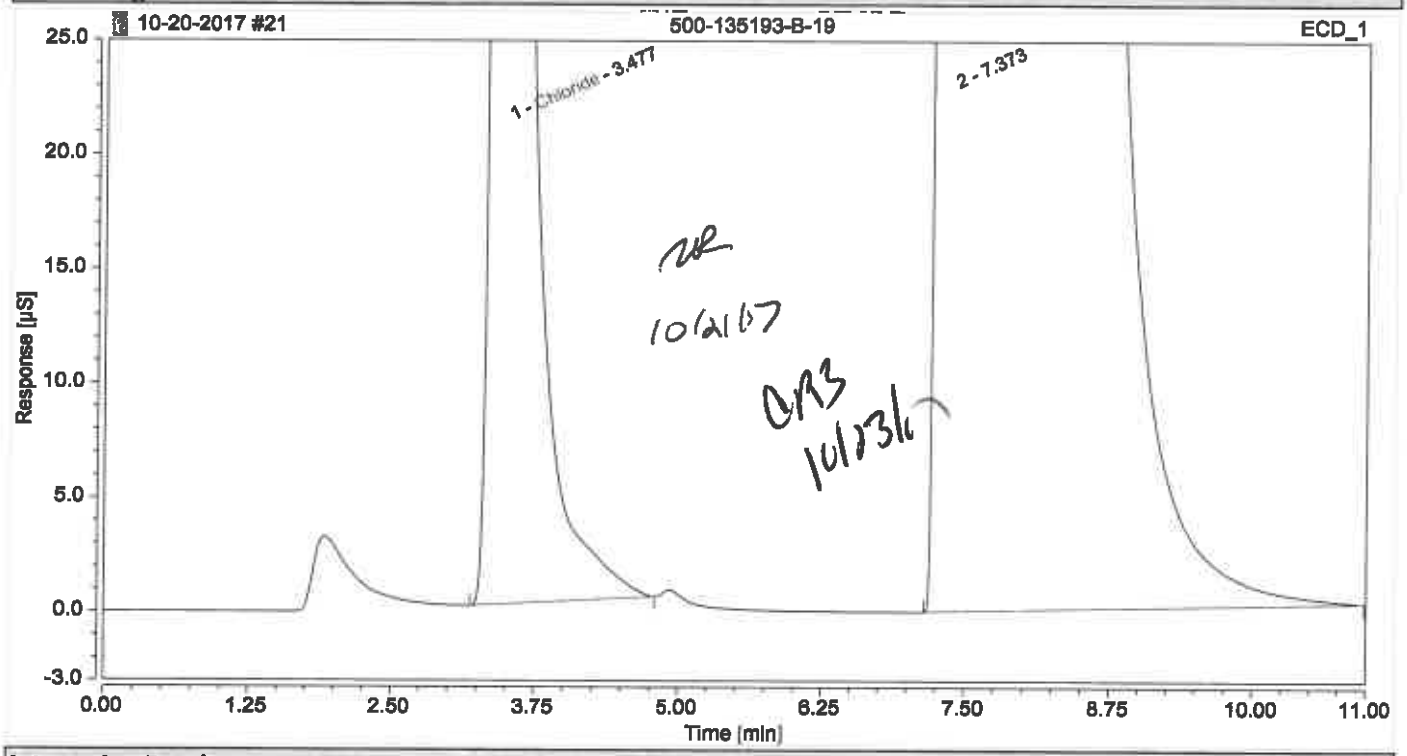
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.557	0.04682	0.156	2.54	1.64	0.3537
2	Chloride	3.493	1.63633	8.877	88.61	93.01	18.1175
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	4.970	0.00261	0.016	0.14	0.16	0.2149
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.113	0.16093	0.495	8.71	5.19	2.3809
Total:			**1.847**	**9.544**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-19**	*Run Time (min):*	**11.00**
Vial Number:	**RC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 16:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

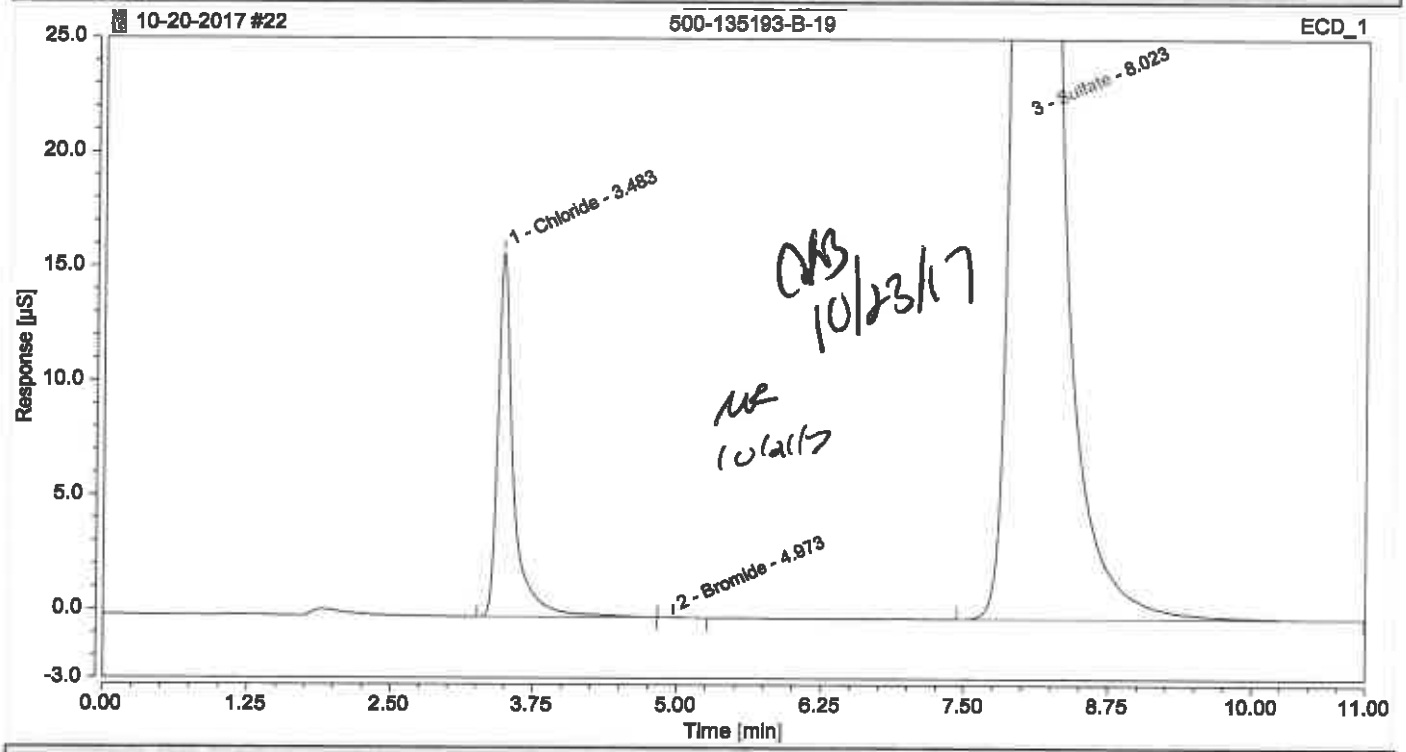
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.477	72.93507	400.297	7.58	22.92	1573.0508
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		7.373	889.67459	1346.453	92.42	77.08	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**962.610**	**1746.750**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-135193-B-19	*Run Time (min):*	11.00
Vial Number:	RC8	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	F, CL, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	200.0000
Injection Date/Time:	20/Oct/17 16:25	*Sample Weight:*	1.0000

Chromatogram



Integration Results

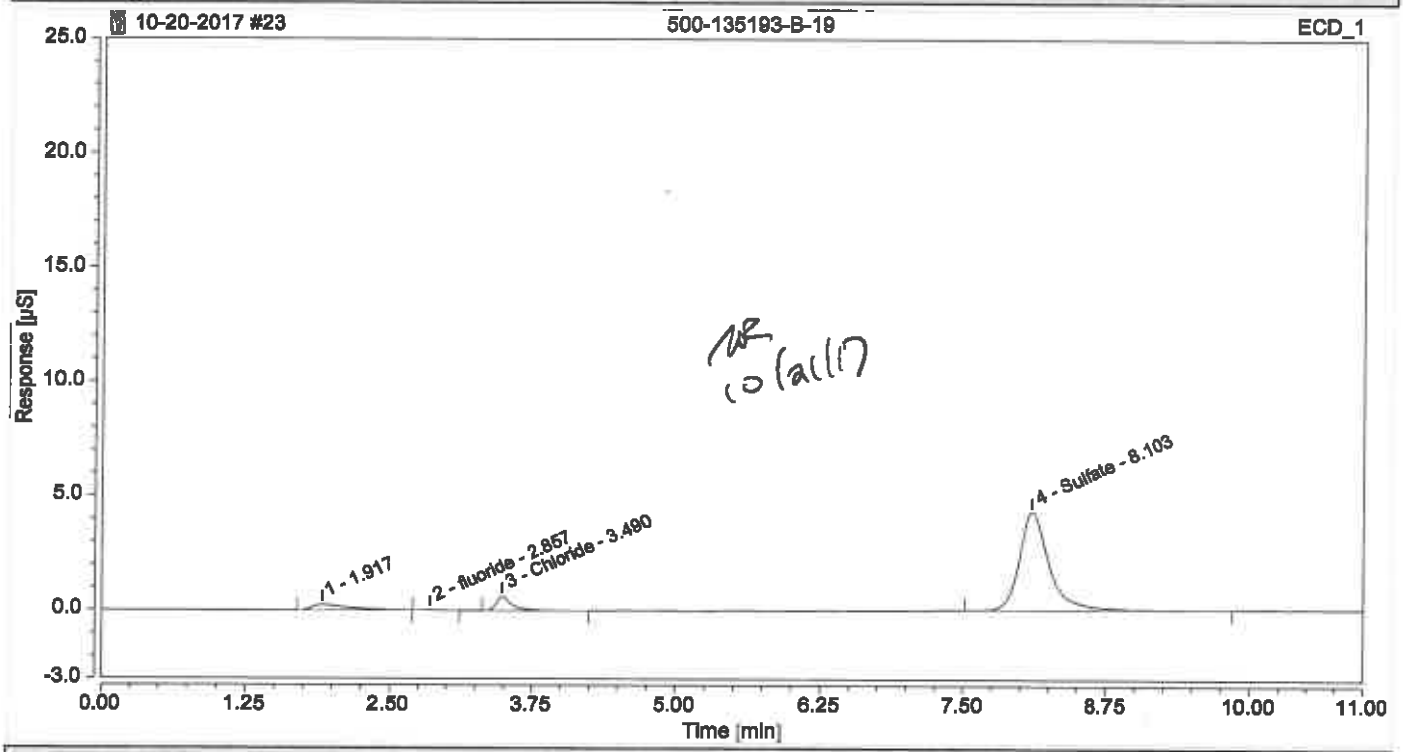
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride NS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.483	2.62190	15.935	5.84	10.29	1149.5699
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	4.973	0.00437	0.025	0.01	0.02	10.8368
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate SO4	8.023	42.30246	138.898	94.15	89.69	24721.0665
Total:			**44.929**	**154.858**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135193-B-19**	*Run Time (min):*	**11.00**
Vial Number:	**RD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5000.0000**
Injection Date/Time:	**20/Oct/17 16:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

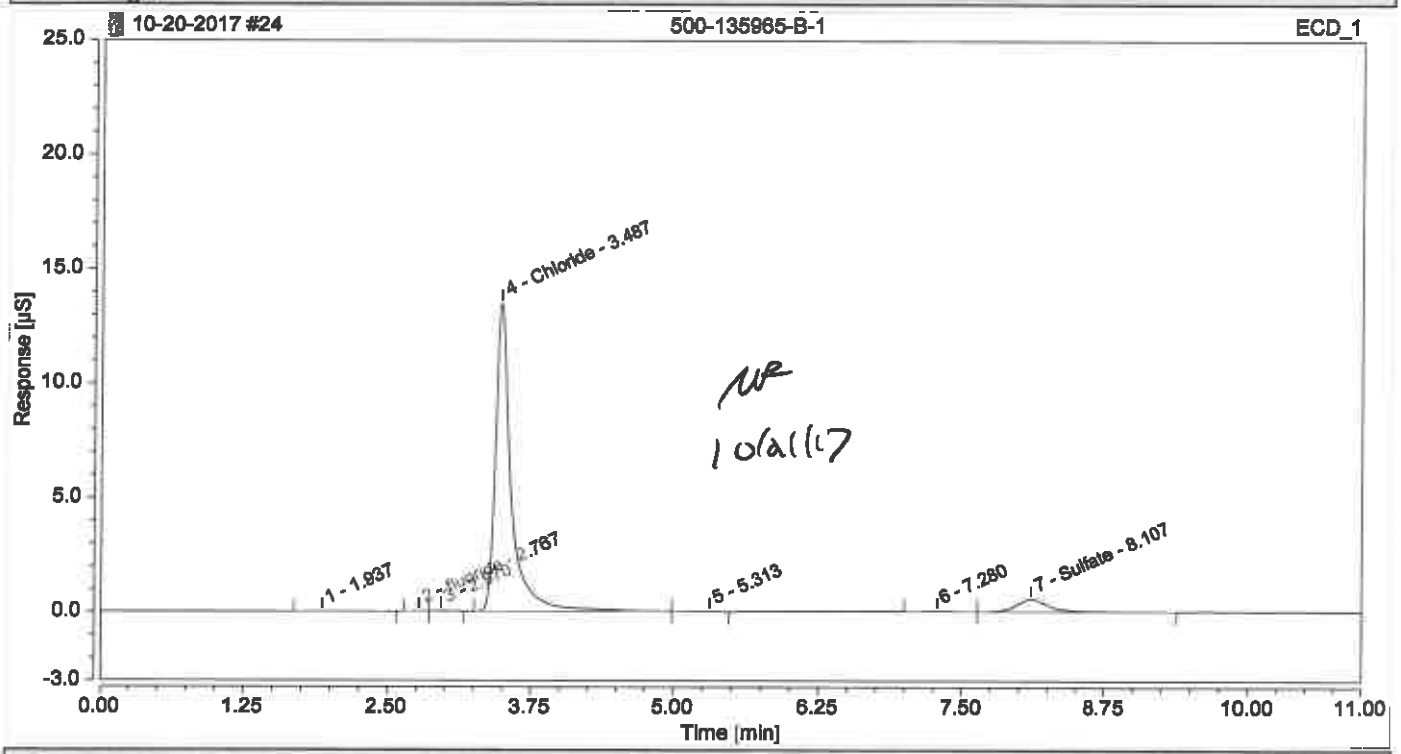
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.09194	0.241	6.01	4.62	n.a.
2	fluoride NO	2.857	0.00380	0.027	0.25	0.51	n.a.
3	Chloride NO	3.490	0.10315	0.610	6.74	11.72	1594.0079
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.103	1.33093	4.329	87.00	83.14	19473.4898
Total:			**1.530**	**5.207**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135965-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**RD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**20/Oct/17 16:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

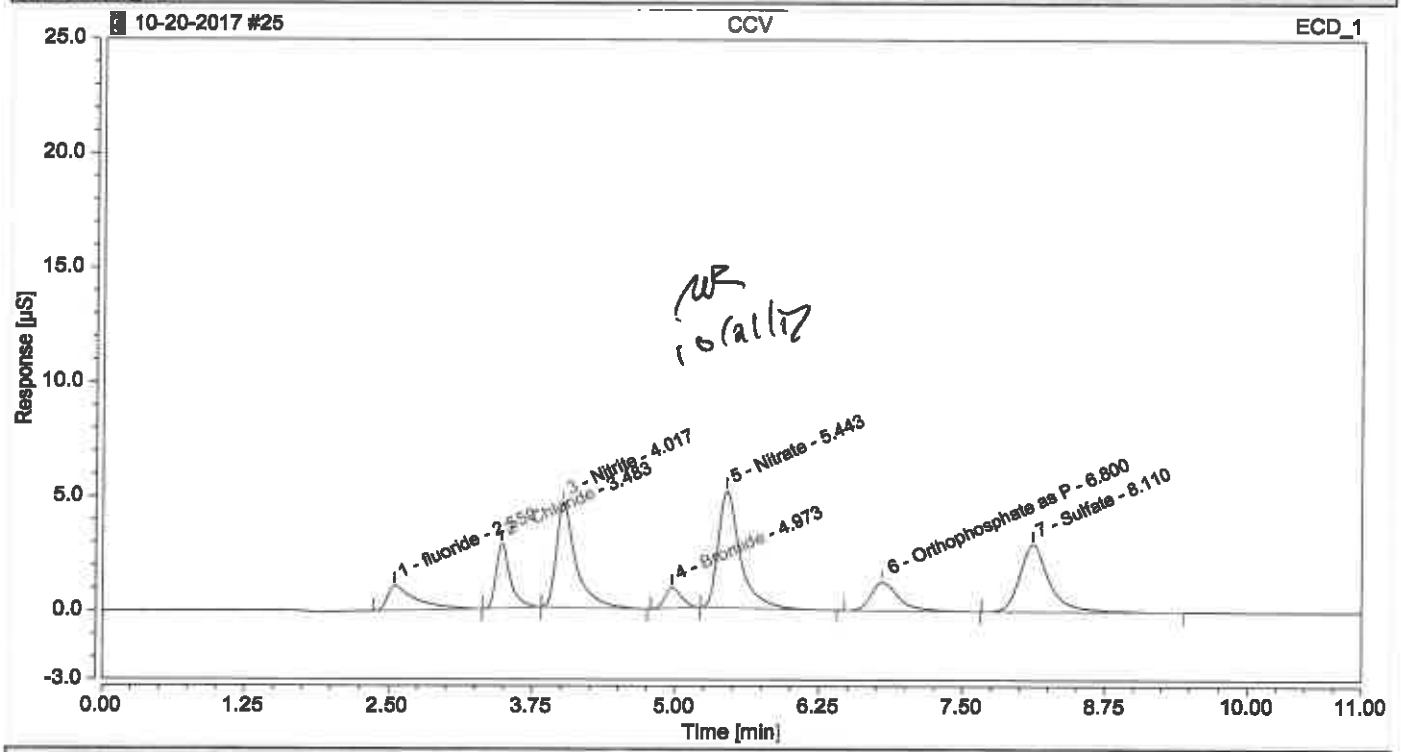
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.937	0.00841	0.019	0.35	0.14	n.a.
2	fluoride	2.767	0.00141	0.012	0.06	0.09	n.a.
3		2.970	0.00389	0.030	0.16	0.21	n.a.
4	Chloride	3.487	2.20979	13.496	91.33	95.36	971.9148
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		5.313	0.00530	0.020	0.22	0.14	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		7.280	0.00677	0.030	0.28	0.21	n.a.
7	Sulfate	8.107	0.18406	0.545	7.61	3.85	108.7513
Total:			**2.420**	**14.153**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 17:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

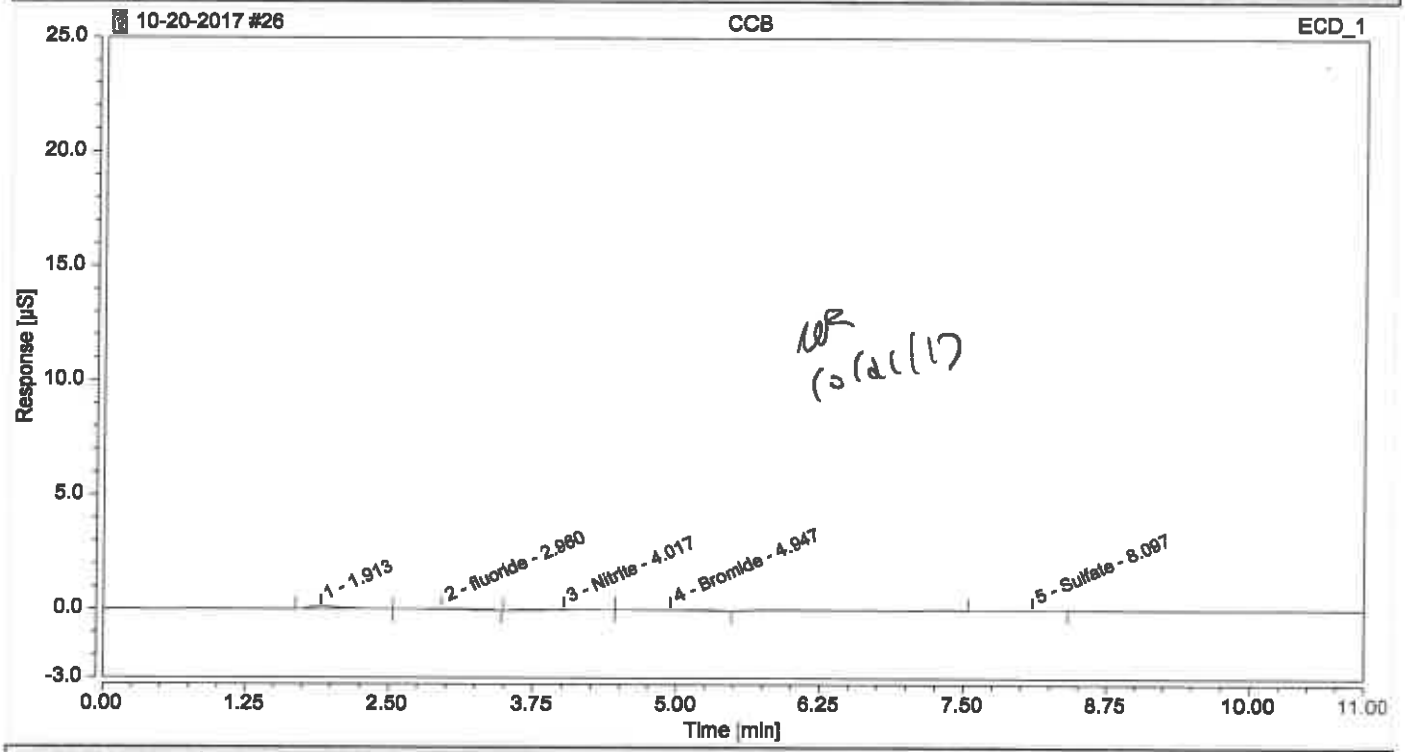
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.550	0.31310	1.096	7.46	5.83	0.6566
2	Chloride	3.483	0.42105	2.842	10.03	15.12	1.0040
3	Nitrite	4.017	0.91980	4.606	21.91	24.51	1.0199
4	Bromide	4.973	0.15615	0.910	3.72	4.84	1.0213
5	Nitrate	5.443	1.12980	5.133	26.92	27.31	1.0251
6	Orthophosphate as P	6.800	0.35136	1.245	8.37	6.62	1.0789
7	Sulfate	8.110	0.90621	2.964	21.59	15.77	2.6538
Total:			**4.197**	**18.796**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 17:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

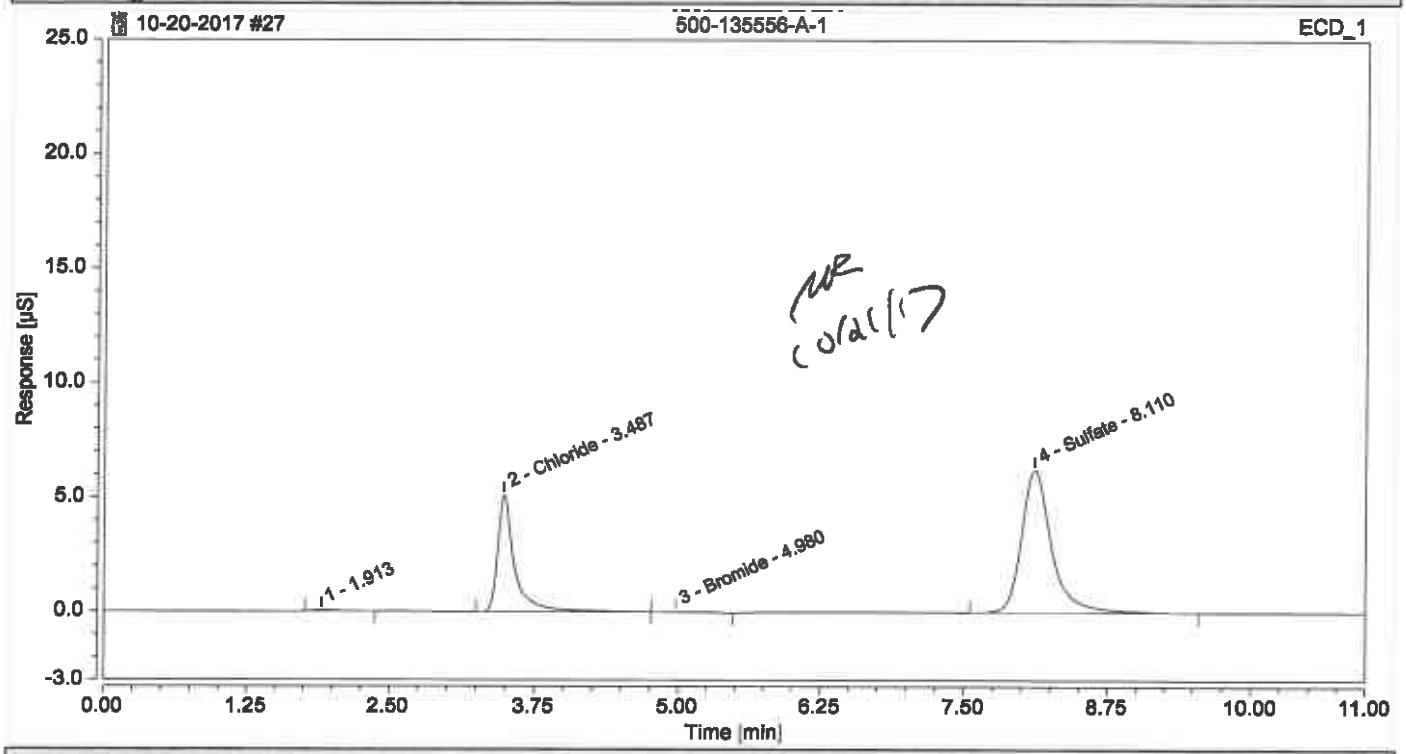
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.03393	0.097	29.36	46.21	n.a.
2	fluoride	2.960	0.02788	0.035	24.13	16.83	0.0291
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrite	4.017	0.02699	0.032	23.36	15.48	0.0879
4	Bromide	4.947	0.02100	0.028	18.18	13.14	0.1602
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.097	0.00574	0.017	4.97	8.34	0.0228
Total:			**0.116**	**0.210**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135556-A-1**	*Run Time (min):*	**11.00**
Vial Number:	**RD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**20/Oct/17 17:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

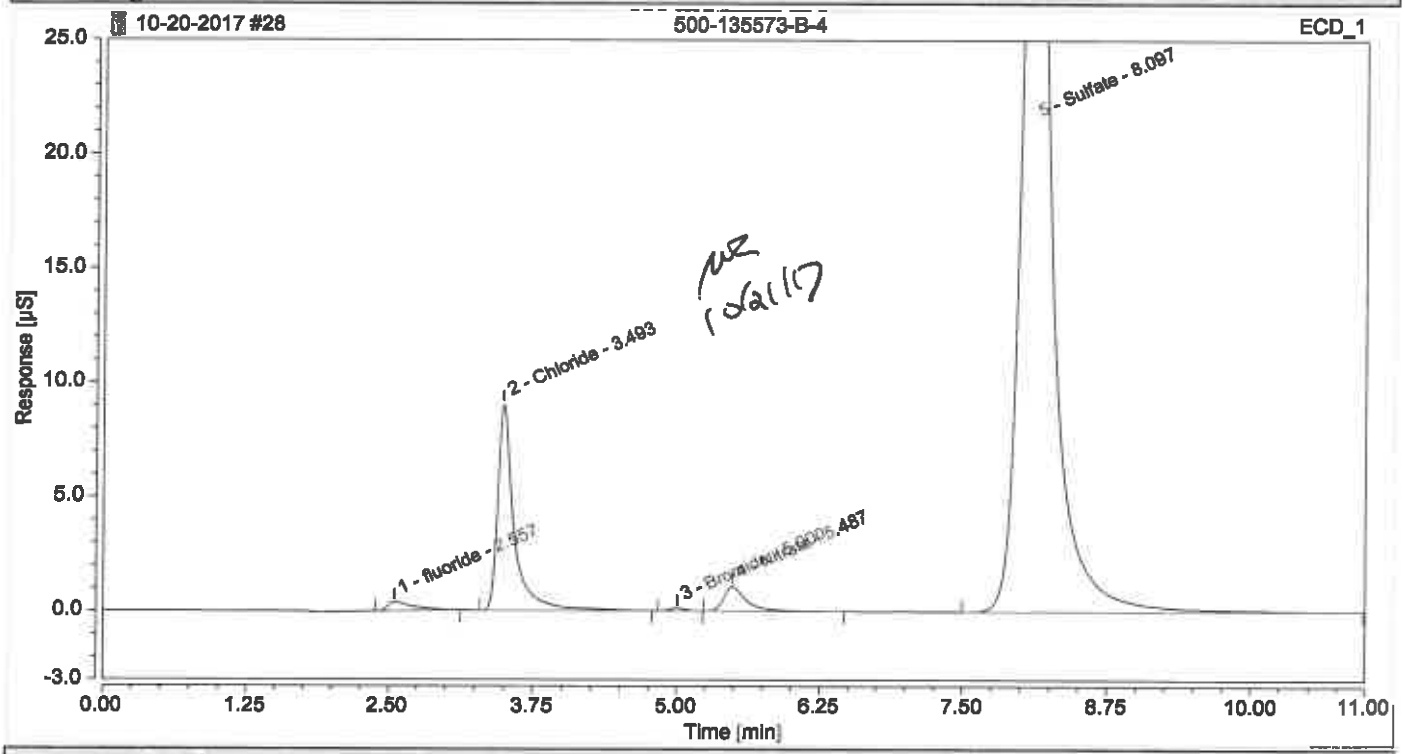
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.01610	0.054	0.57	0.47	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.487	0.88124	5.140	31.20	44.77	199.5937
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	4.980	0.01312	0.019	0.46	0.17	10.9944
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.110	1.91430	6.267	67.77	54.59	559.9189
Total:			**2.825**	**11.479**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-4**	*Run Time (min):*	**11.00**
Vial Number:	**RD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**20/Oct/17 17:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

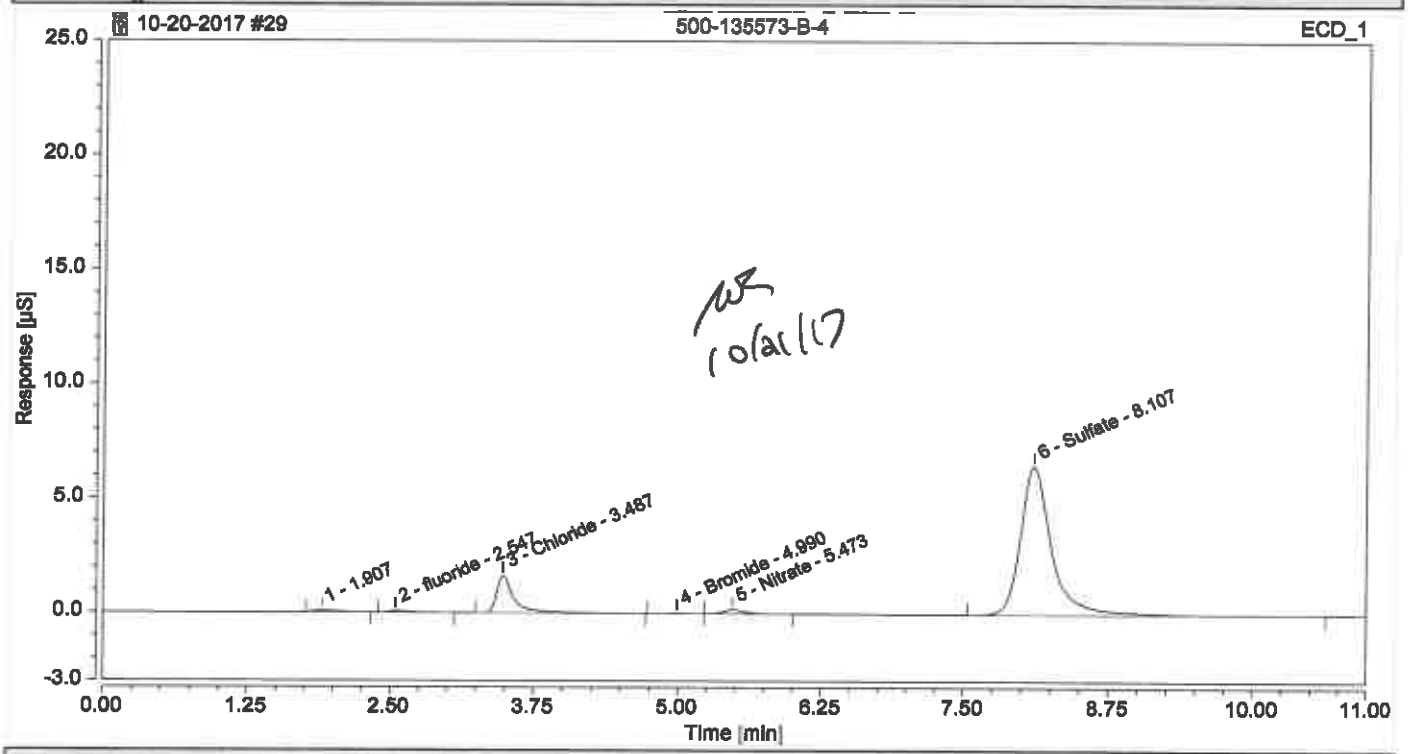
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.557	0.10558	0.393	0.77	0.78	40.0061
2	Chloride	3.493	1.52748	9.053	11.19	17.90	677.7760
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.000	0.01817	0.110	0.13	0.22	28.4252
4	Nitrate	5.487	0.25089	1.079	1.84	2.13	53.9478
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.097	11.75273	39.952	86.07	78.98	6869.0223
Total:			**13.655**	**50.588**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-4**	*Run Time (min):*	**11.00**
Vial Number:	**RD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**20/Oct/17 17:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

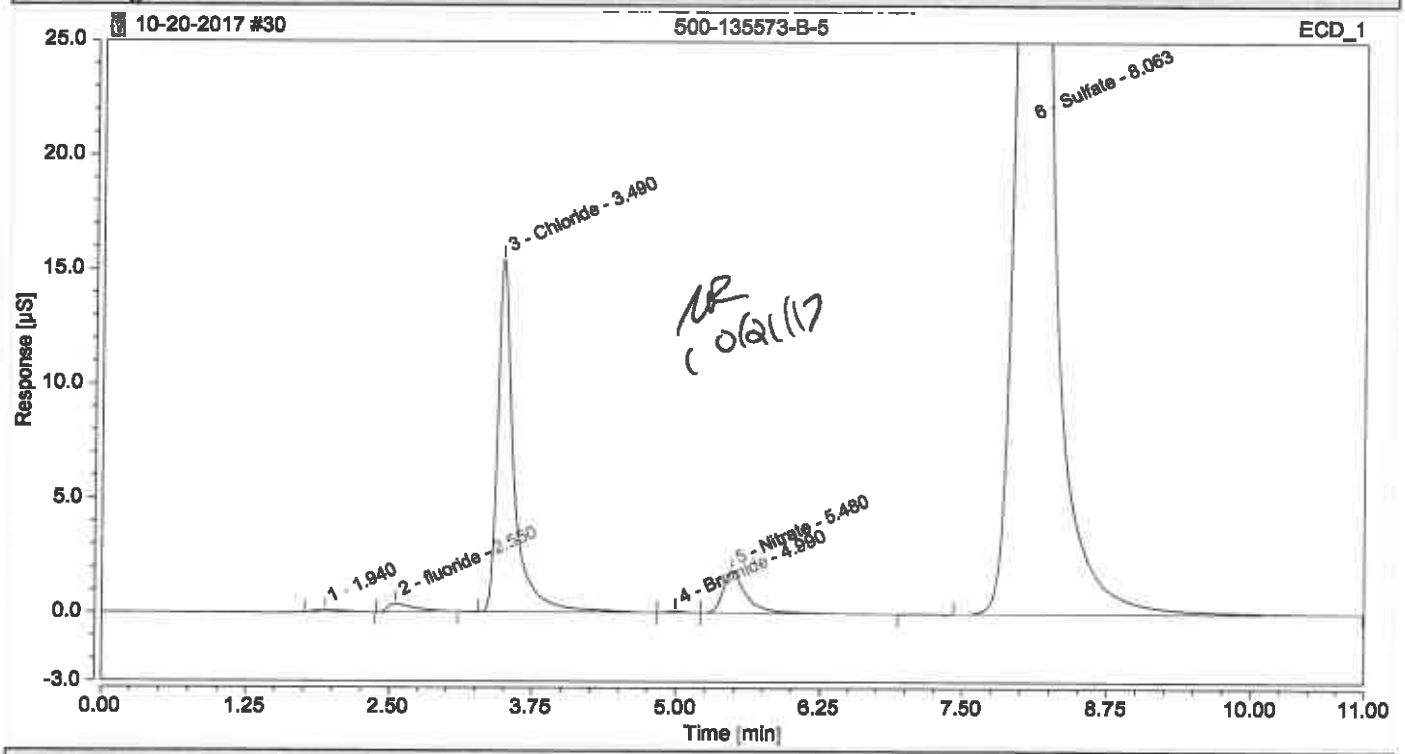
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.907	0.02077	0.072	0.86	0.85	n.a.
2	fluoride	2.547	0.01918	0.073	0.79	0.86	9.9379
3	Chloride	3.487	0.29001	1.641	12.00	19.27	721.5662
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.990	0.00437	0.024	0.18	0.28	54.1804
5	Nitrate	5.473	0.04010	0.176	1.66	2.07	88.5655
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.107	2.04269	6.526	84.51	76.67	5974.3047
Total:			**2.417**	**8.512**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-5**	*Run Time (min):*	**11.00**
Vial Number:	**RD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**20/Oct/17 18:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

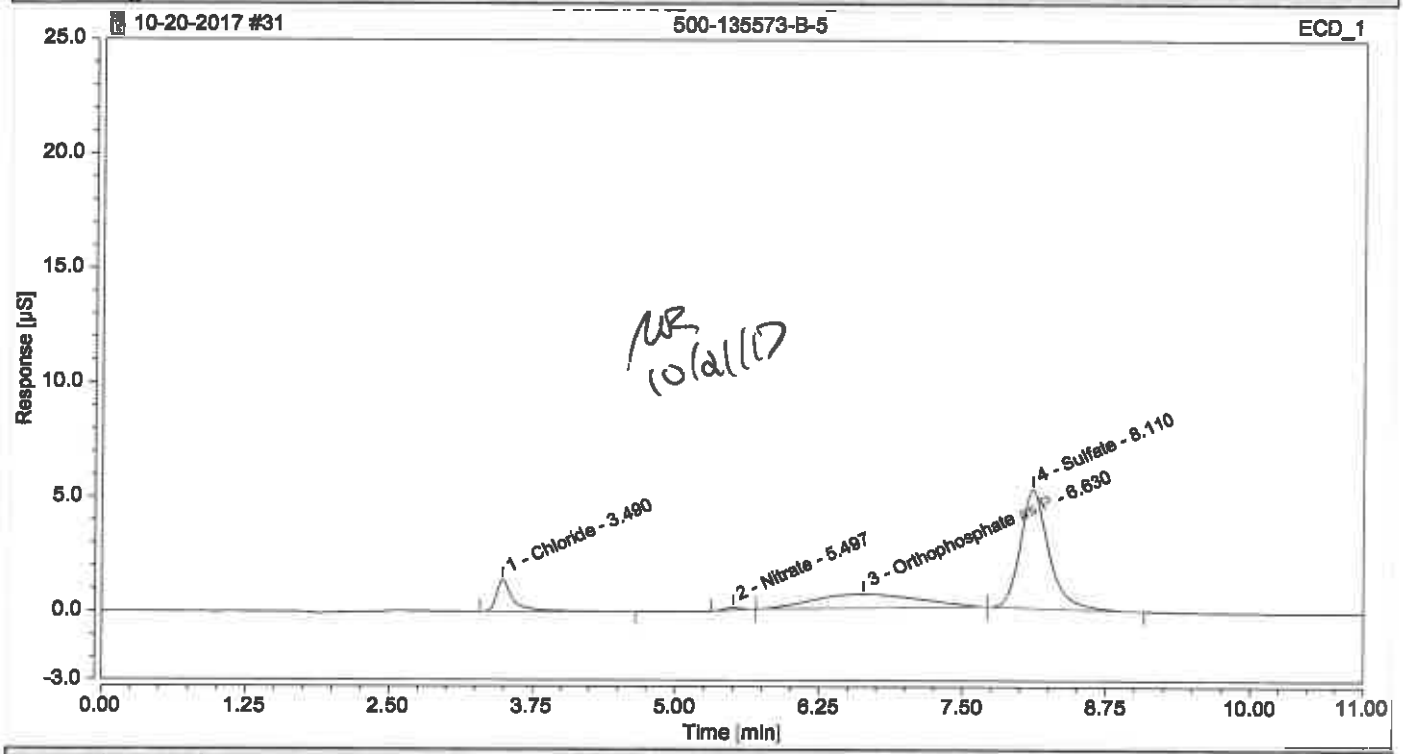
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.940	0.02761	0.080	0.12	0.09	n.a.
2	fluoride	2.550	0.09730	0.369	0.43	0.43	36.3618
3	Chloride	3.490	2.63426	15.448	11.53	18.17	1154.8990
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.990	0.01087	0.068	0.05	0.08	19.1262
5	Nitrate	5.480	0.44176	1.838	1.93	2.16	86.7571
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.063	19.62878	67.194	85.94	79.05	11471.4707
Total:			**22.841**	**84.997**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-5**	*Run Time (min):*	**11.00**
Vial Number:	**RD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2000.0000**
Injection Date/Time:	**20/Oct/17 18:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

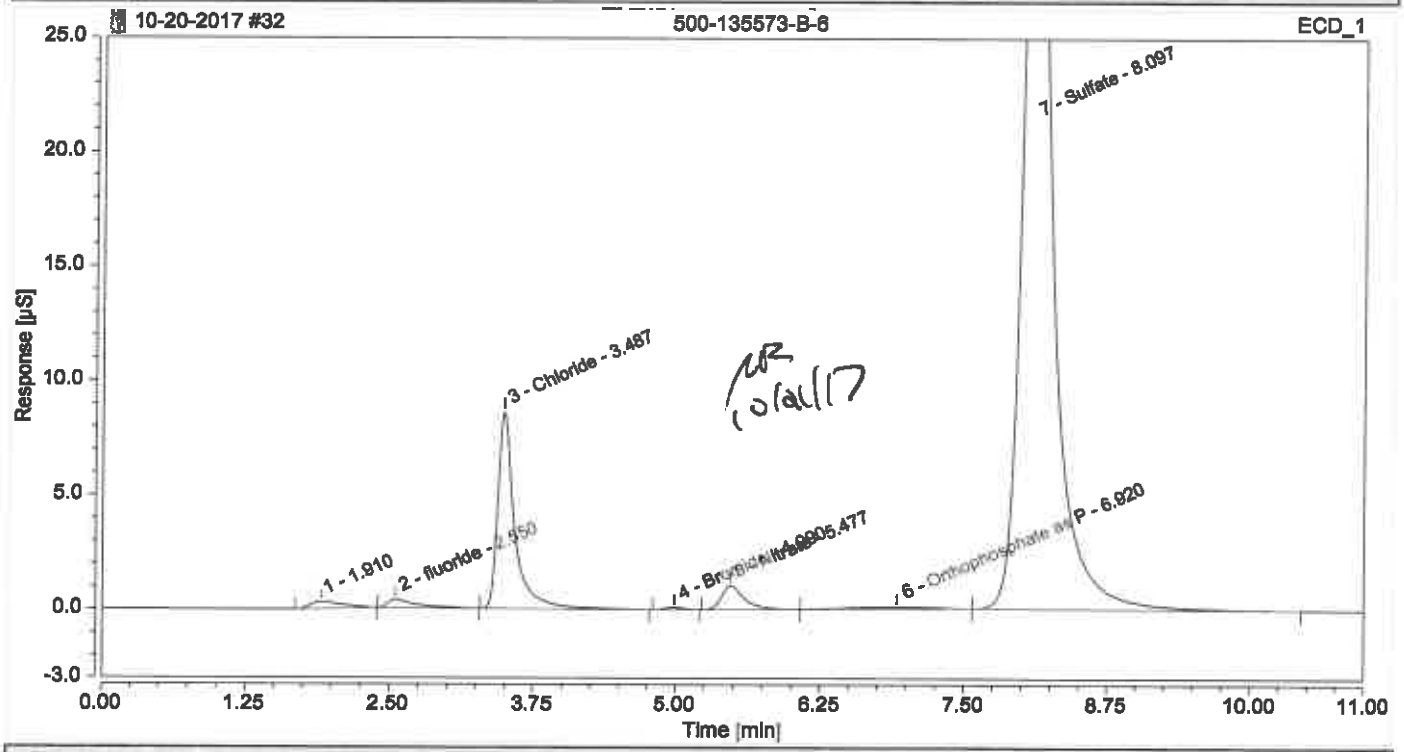
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.490	0.24316	1.381	9.98	18.89	1241.1390
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.497	0.01930	0.110	0.79	1.51	141.3871
3	Orthophosphate as P	6.630	0.65469	0.608	26.88	8.33	3948.6718
4	Sulfate	8.110	1.51836	5.209	62.34	71.27	8884.6493
Total:			**2.436**	**7.309**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-6**	*Run Time (min):*	**11.00**
Vial Number:	**RD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**20/Oct/17 18:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

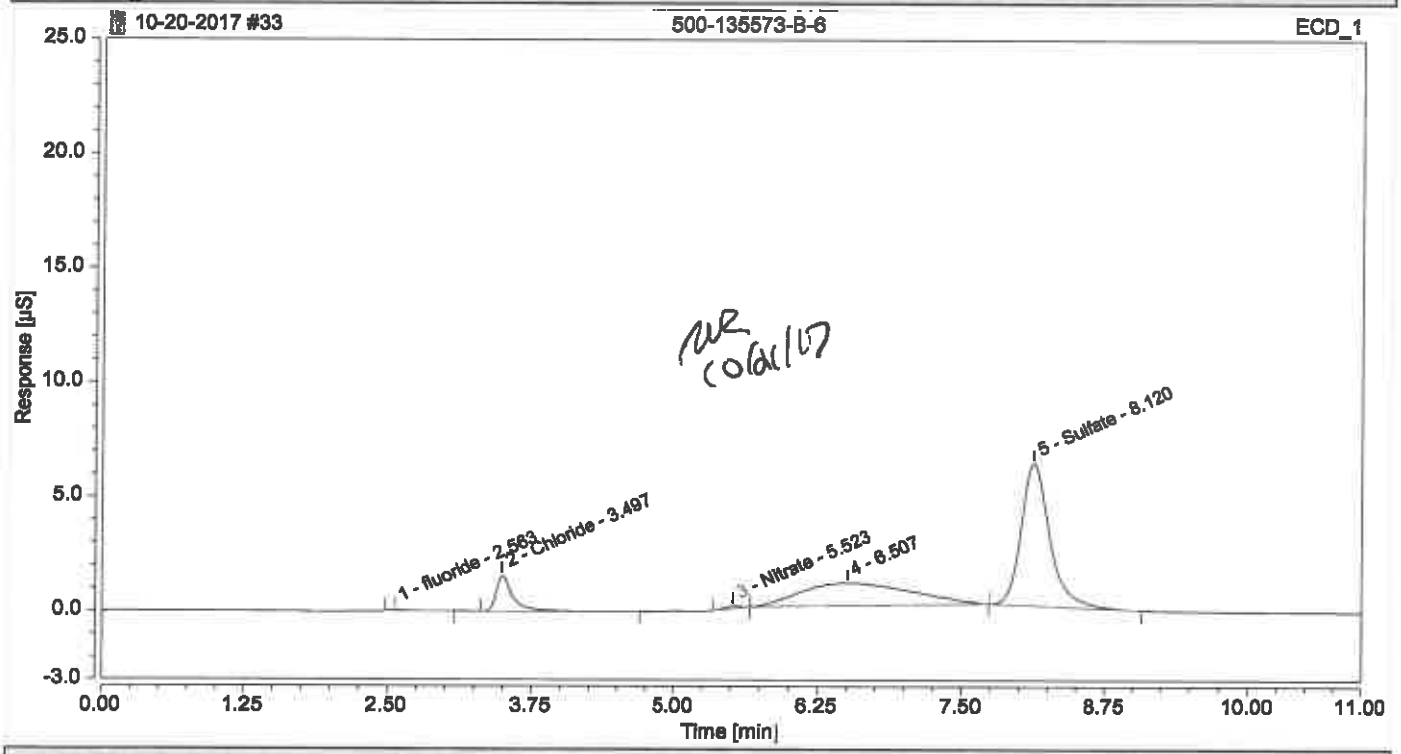
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.09963	0.305	0.74	0.62	n.a.
2	fluoride	2.550	0.10426	0.364	0.77	0.74	39.4262
3	Chloride	3.487	1.49797	8.630	11.11	17.57	665.0554
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.990	0.01844	0.108	0.14	0.22	28.7645
5	Nitrate	5.477	0.23541	1.050	1.75	2.14	51.2864
6	Orthophosphate as P	6.920	0.06704	0.081	0.50	0.16	47.8947
7	Sulfate	8.097	11.45898	38.572	85.00	78.54	6697.3652
Total:			**13.482**	**49.110**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135573-B-6**	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**20/Oct/17 18:45**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

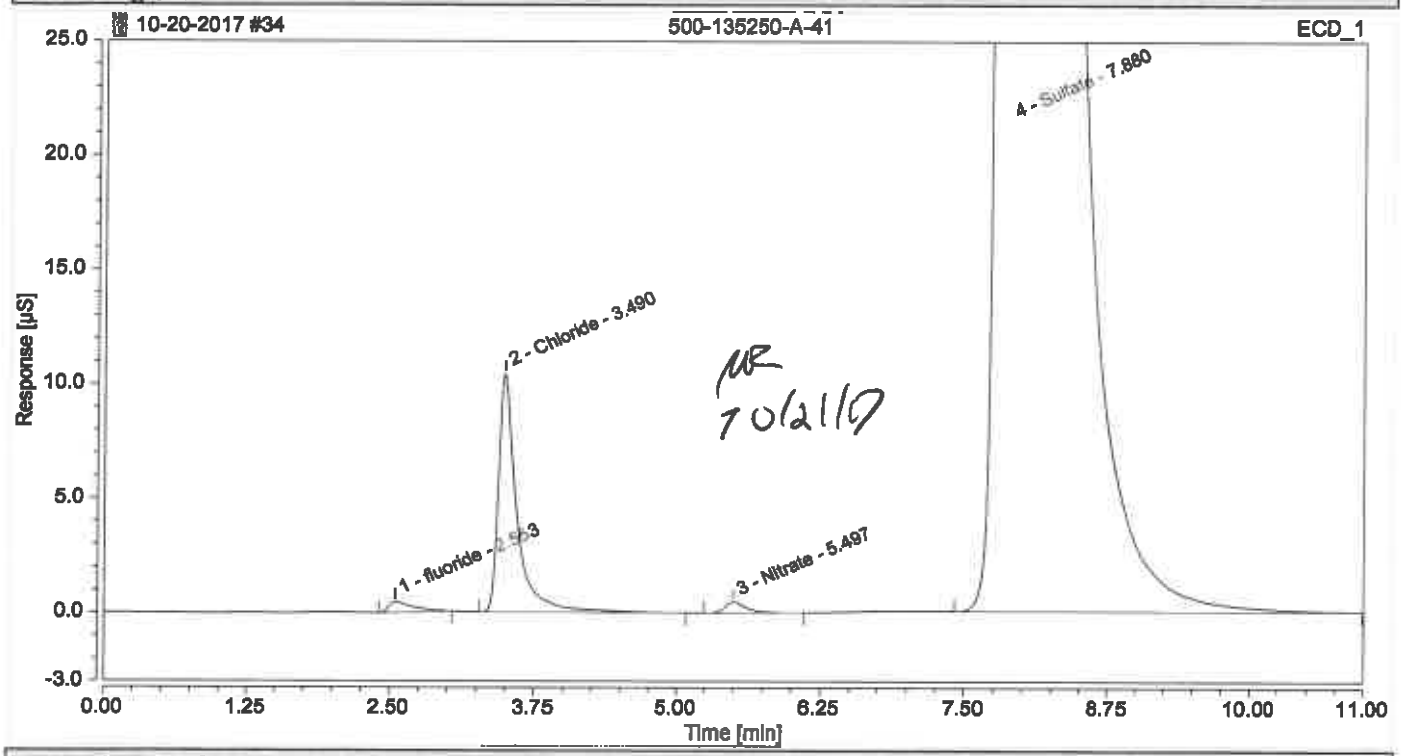
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.01139	0.053	0.36	0.60	n.a.
2	Chloride NO	3.497	0.26760	1.568	8.35	17.51	673.2647
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.523	0.01714	0.104	0.53	1.16	68.8349
4		6.507	1.09114	0.984	34.05	10.98	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.120	1.81747	6.247	56.71	69.75	5316.2611
Total:			**3.205**	**8.956**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-41**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**20/Oct/17 18:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

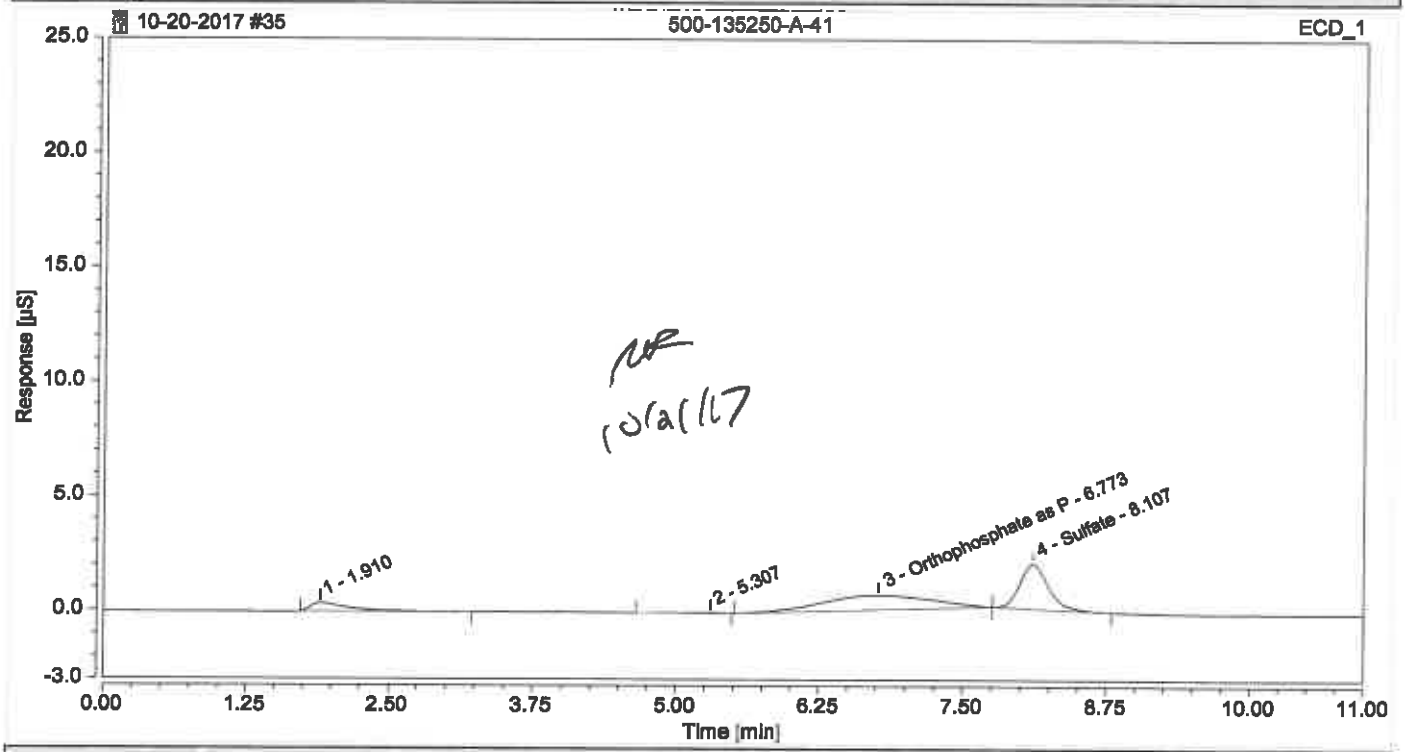
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.553	0.11507	0.467	0.07	0.10	1.1045
2	Chloride	3.490	1.95546	10.446	1.14	2.24	21.5569
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.497	0.10568	0.477	0.06	0.10	0.7247
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.880	168.74652	454.764	98.73	97.56	2465.2482
Total:			**170.923**	**466.154**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-41**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**20/Oct/17 19:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

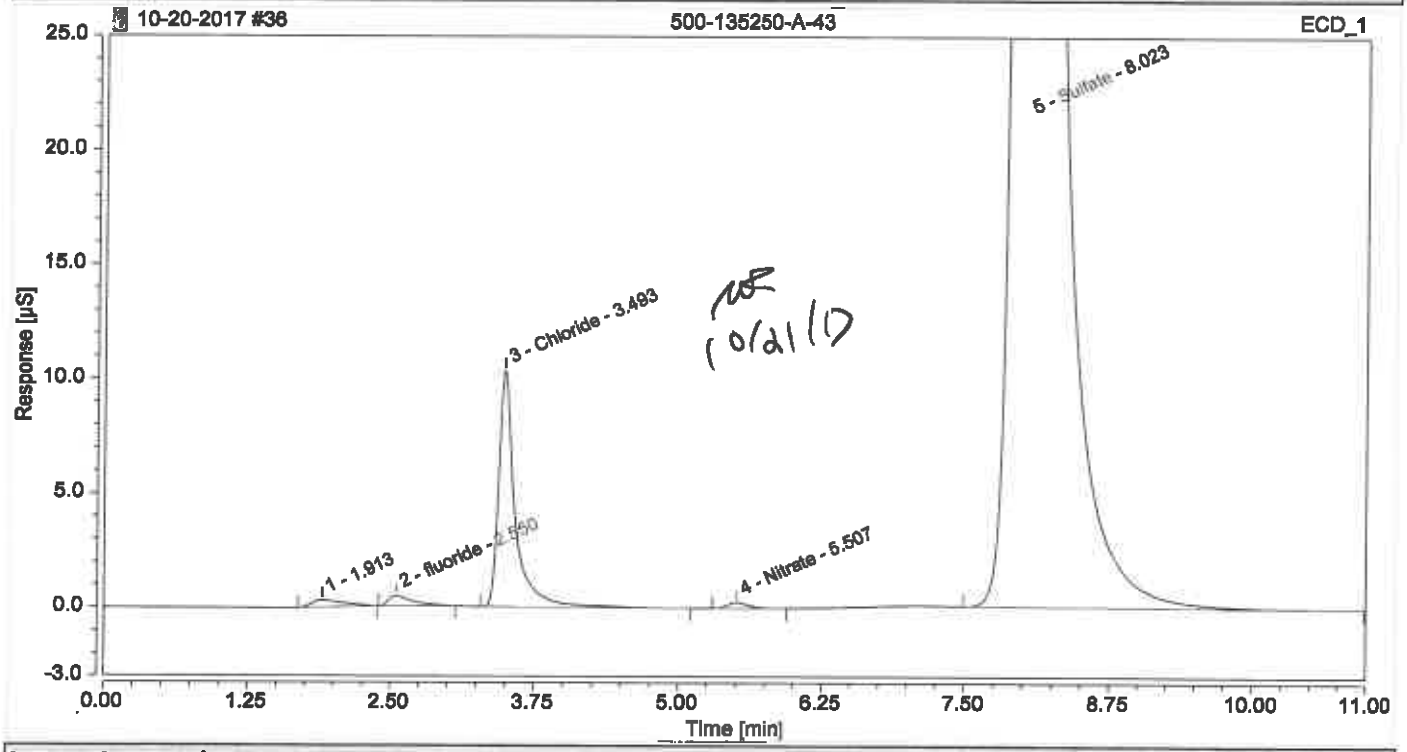
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.14464	0.363	10.20	12.13	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		5.307	0.01385	0.034	0.98	1.13	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P	6.773	0.69456	0.628	48.97	20.98	2092.0624
4	Sulfate	8.107	0.56535	1.968	39.86	65.76	1657.8222
Total:			**1.418**	**2.992**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-43**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**20/Oct/17 19:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

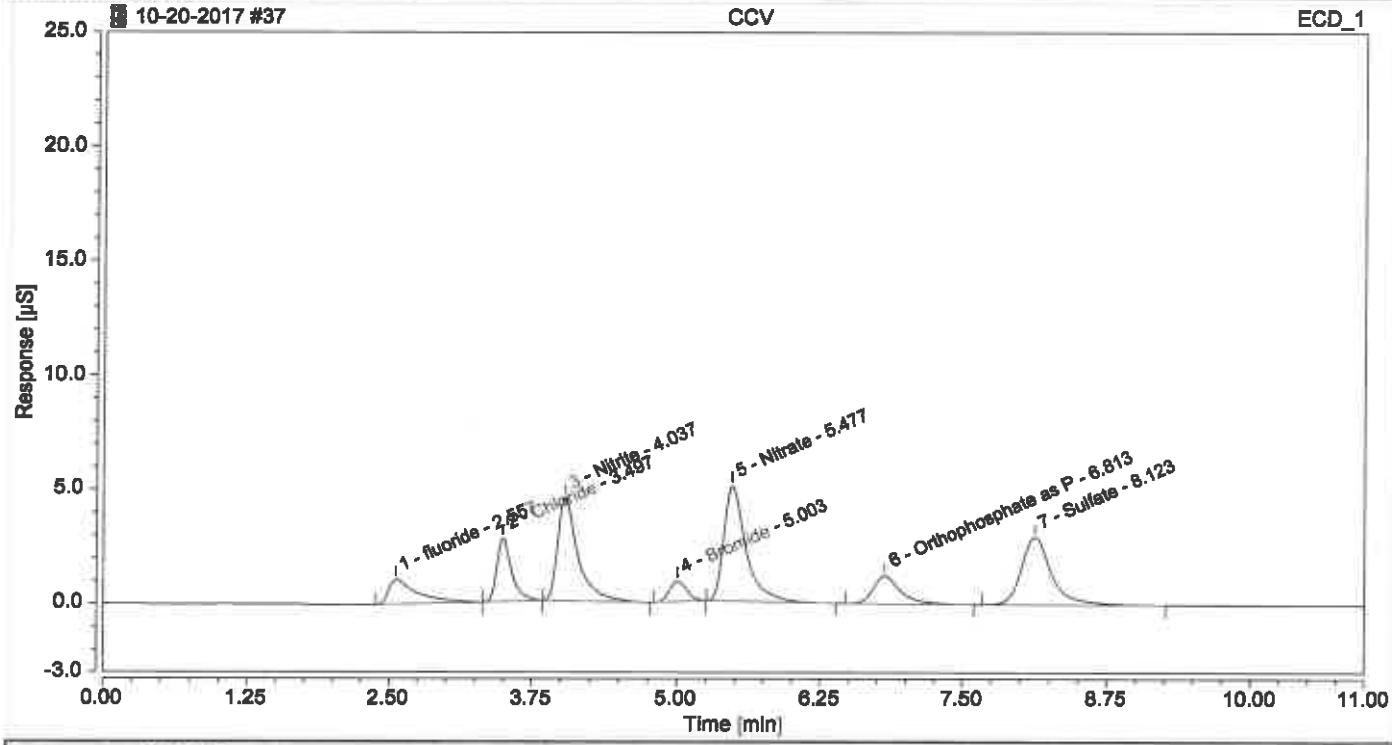
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.09836	0.301	0.18	0.17	n.a.
2	fluoride	2.550	0.11302	0.447	0.21	0.25	4.3280
3	Chloride	3.493	1.77748	10.354	3.34	5.85	78.5547
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.507	0.05537	0.256	0.10	0.14	2.0338
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.023	51.22337	165.607	96.16	93.58	2993.4091
Total:			**53.268**	**176.966**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 19:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

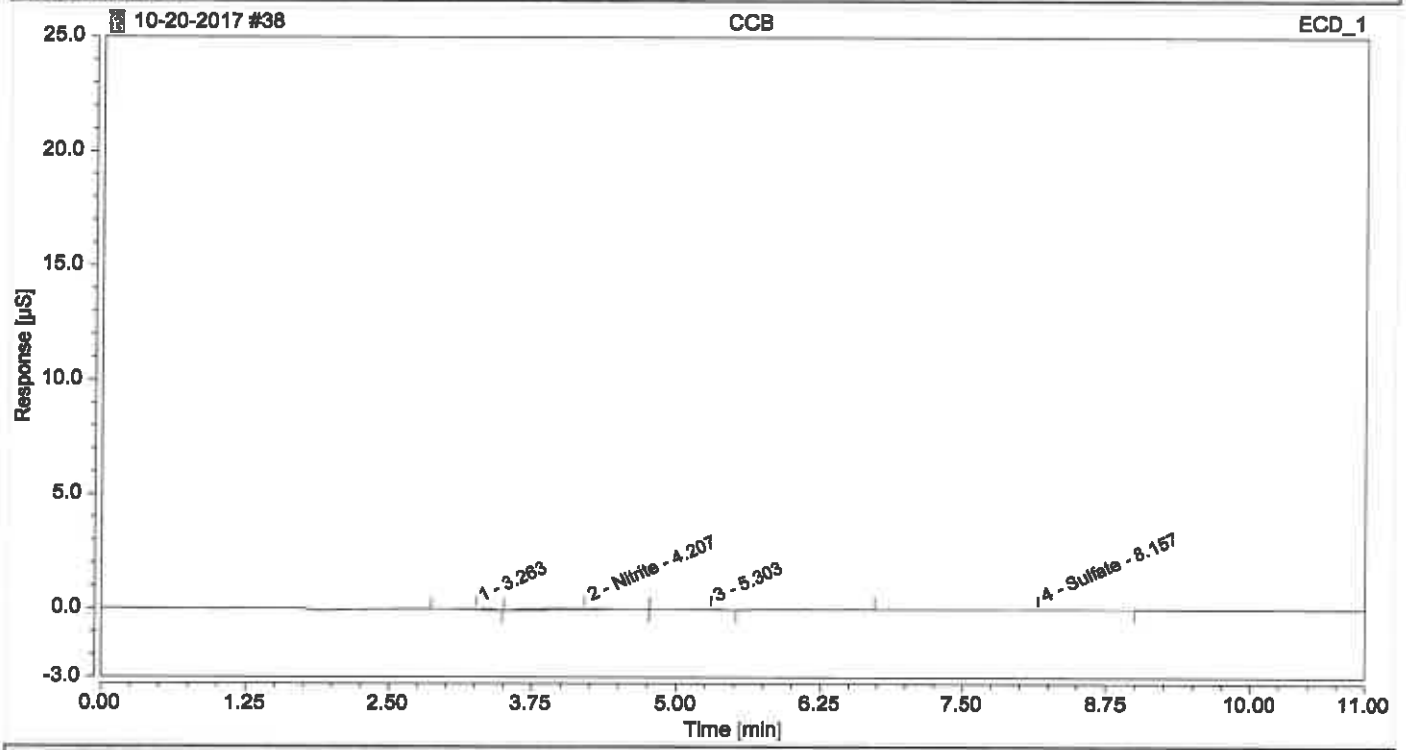
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.557	0.31462	1.074	7.54	5.79	0.6599
2	Chloride	3.497	0.41810	2.788	10.02	15.03	0.9977
3	Nitrite	4.037	0.91447	4.550	21.91	24.53	1.0144
4	Bromide	5.003	0.15519	0.894	3.72	4.82	1.0151
5	Nitrate	5.477	1.12773	5.057	27.02	27.26	1.0233
6	Orthophosphate as P	6.813	0.34316	1.217	8.22	6.56	1.0546
7	Sulfate	8.123	0.90027	2.969	21.57	16.00	2.6364
Total:			**4.174**	**18.549**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 19:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

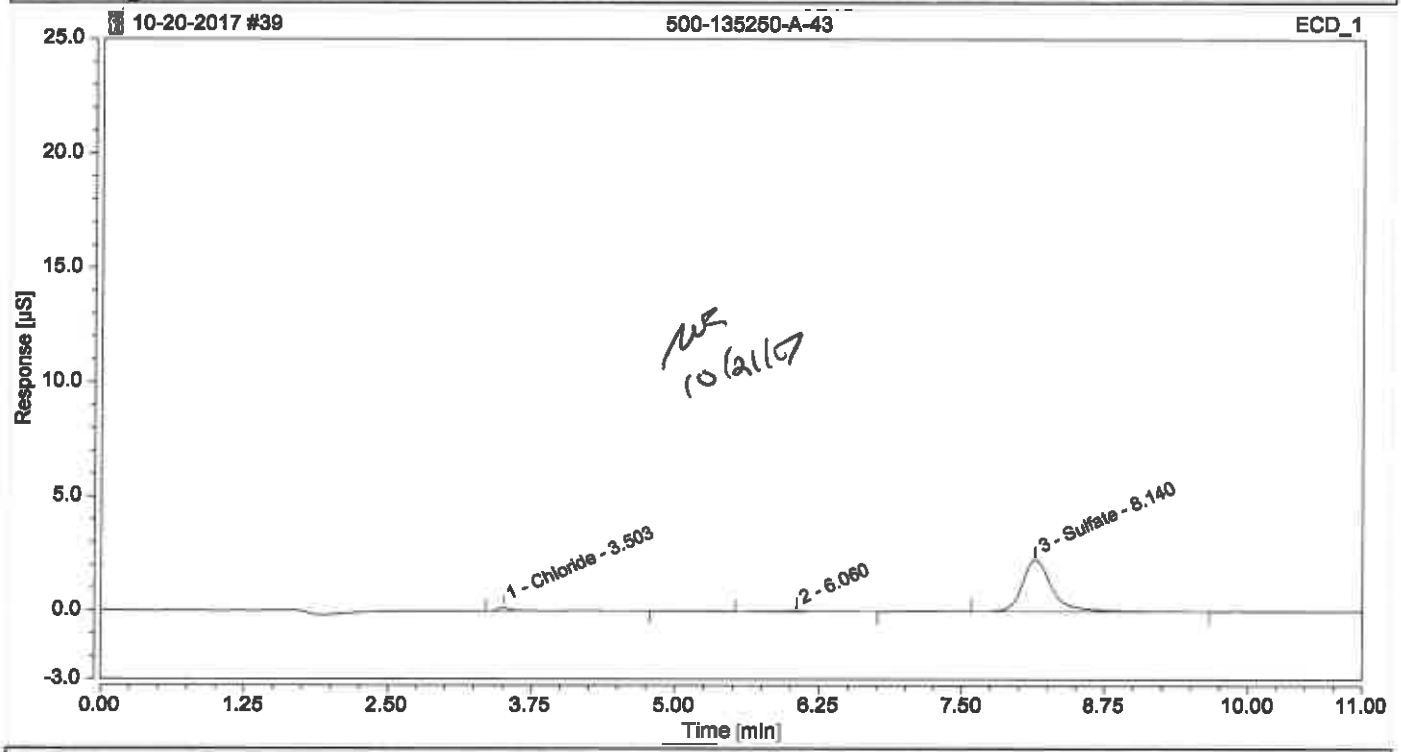
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.263	0.01685	0.043	18.47	31.16	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrite	4.207	0.04247	0.040	46.55	28.93	0.1041
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.303	0.01319	0.035	14.46	25.22	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.157	0.01873	0.020	20.53	14.69	0.0607
Total:			**0.091**	**0.139**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-43**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**20/Oct/17 20:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

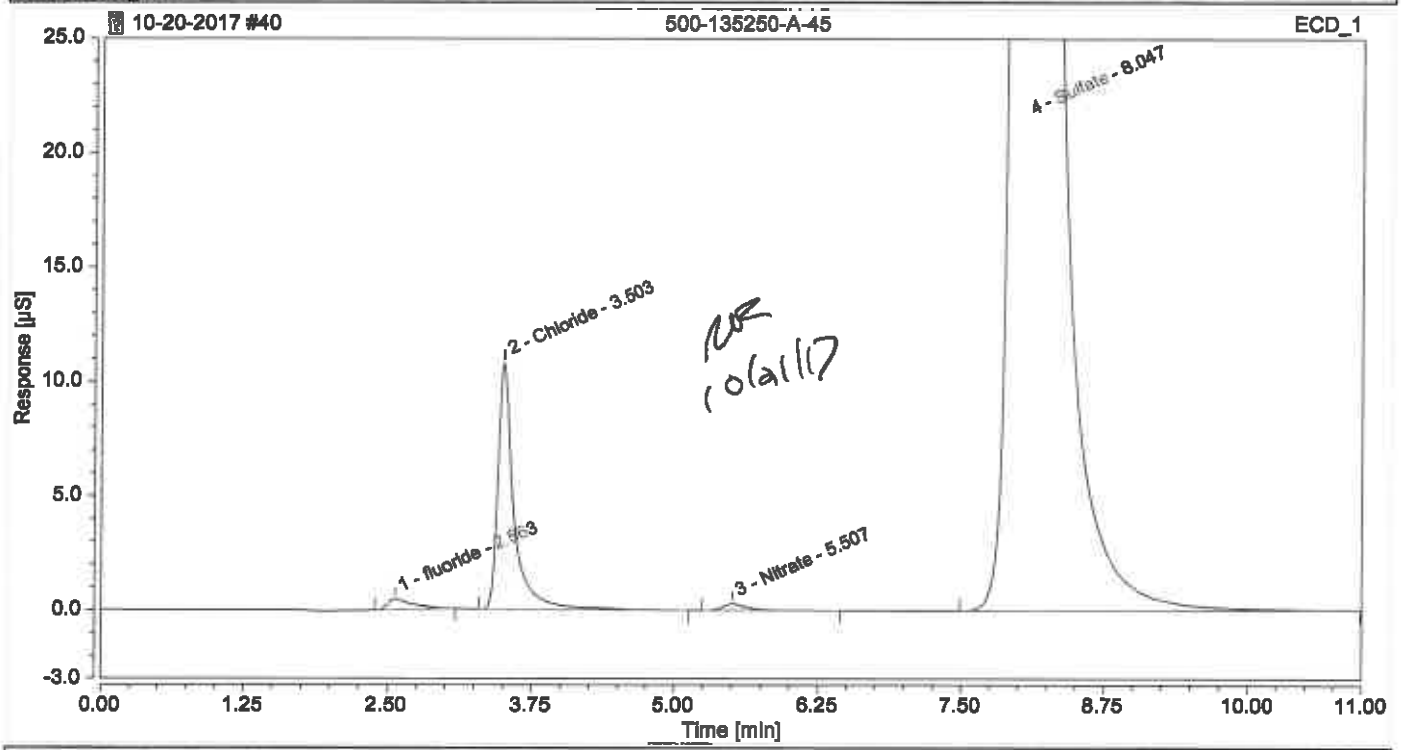
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.503	0.03414	0.136	4.52	5.61	170.0482
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		6.060	0.02323	0.030	3.08	1.22	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.140	0.69761	2.267	92.40	93.18	2044.2505
Total:			**0.755**	**2.433**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-45**	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**20/Oct/17 20:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

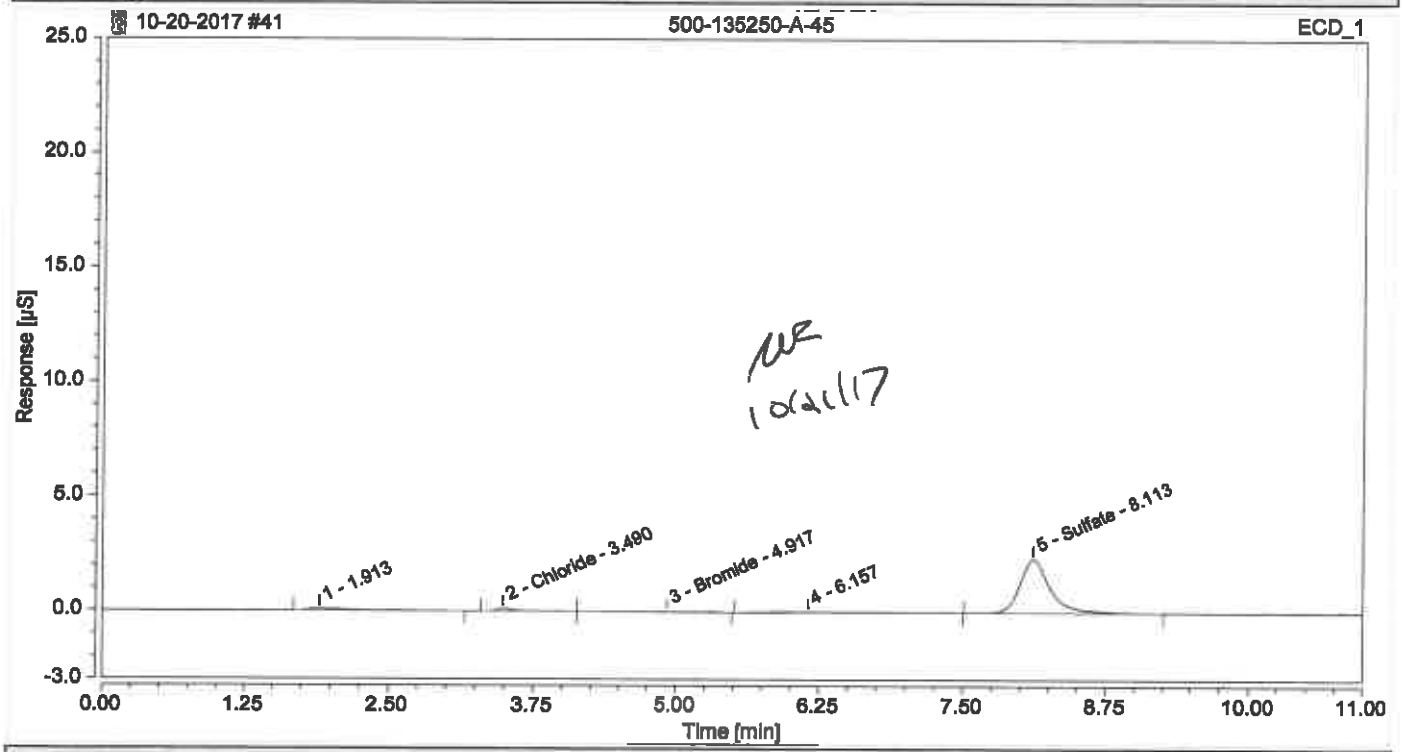
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.12028	0.465	0.22	0.26	4.6473
2	Chloride	3.503	1.80488	10.801	3.37	5.98	79.7359
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.507	0.06909	0.283	0.13	0.16	2.2696
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.047	51.51703	168.955	96.27	93.60	3010.5693
Total:			**53.511**	**180.505**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-45**	*Run Time (min):*	**11.00**
Vial Number:	**RE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**20/Oct/17 20:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

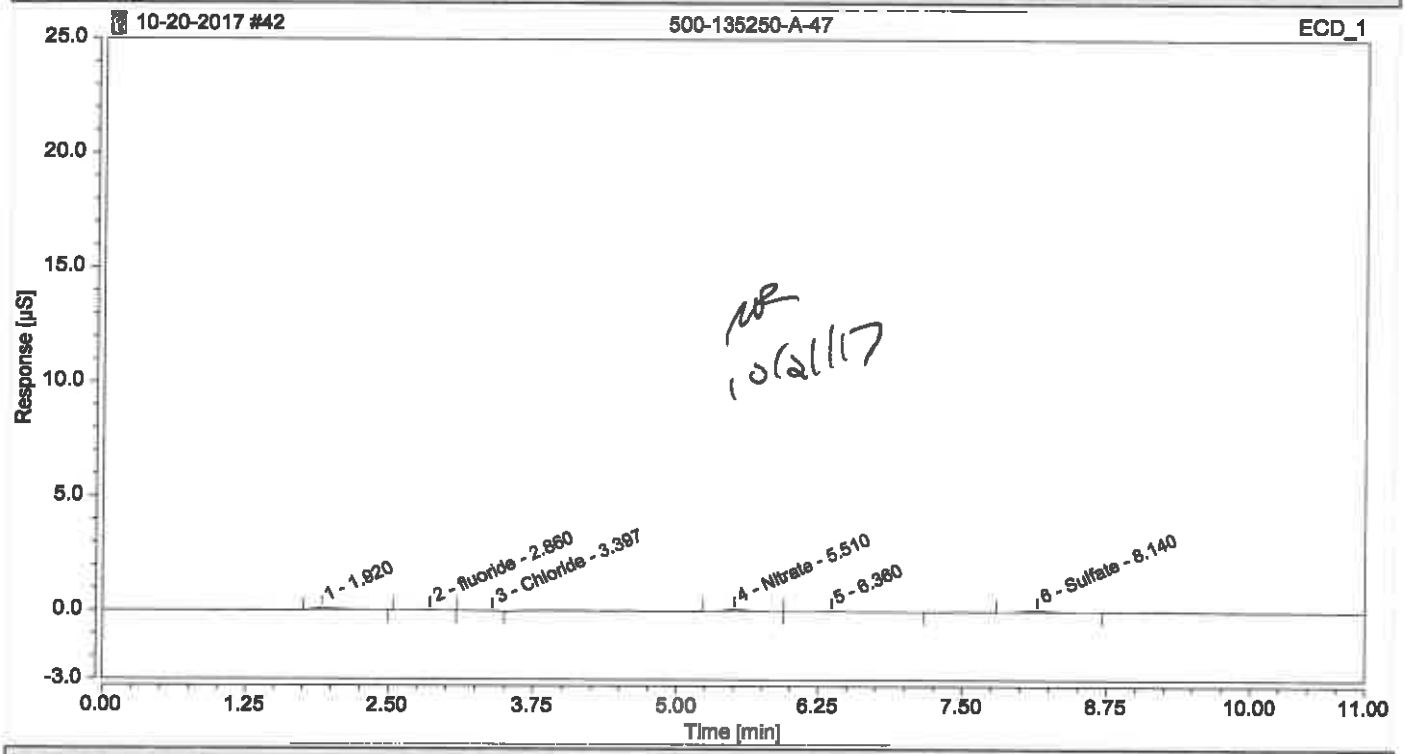
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.04540	0.087	5.28	3.31	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride NR	3.490	0.02081	0.119	2.42	4.52	141.3170
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	4.917	0.02532	0.030	2.94	1.14	187.6482
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.157	0.04227	0.035	4.91	1.35	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate DD	8.113	0.72630	2.351	84.44	89.68	2128.0758
Total:			**0.860**	**2.622**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-47**	*Run Time (min):*	**11.00**
Vial Number:	**RE8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 20:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

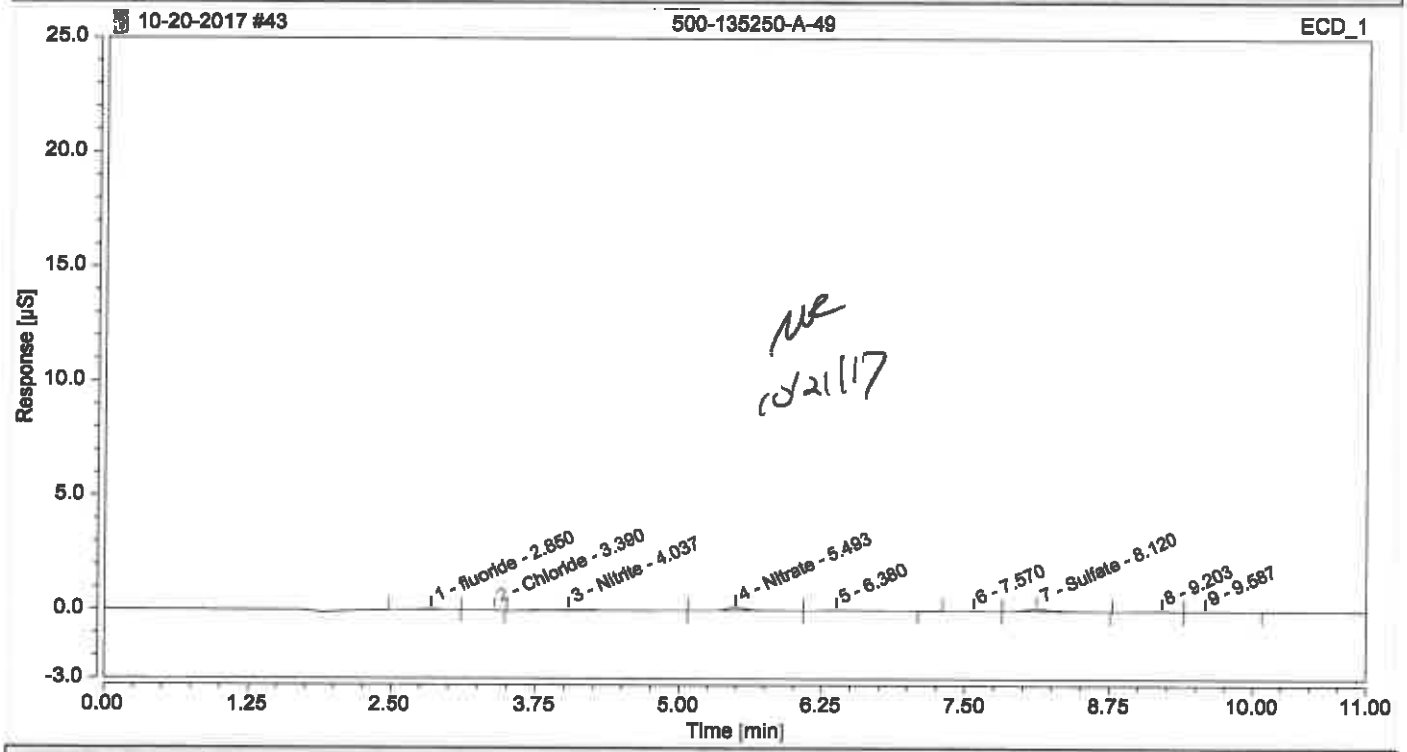
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.920	0.02586	0.080	26.23	22.84	n.a.
2	fluoride	2.860	0.00738	0.031	7.48	8.79	n.a.
3	Chloride	3.397	0.00613	0.030	6.21	8.67	0.1097
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.510	0.02072	0.094	21.01	27.03	0.0719
5		6.360	0.01181	0.028	11.98	8.02	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.140	0.02672	0.086	27.09	24.64	0.0841
Total:			**0.099**	**0.349**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135250-A-49**	*Run Time (min):*	**11.00**
Vial Number:	**BA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 20:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

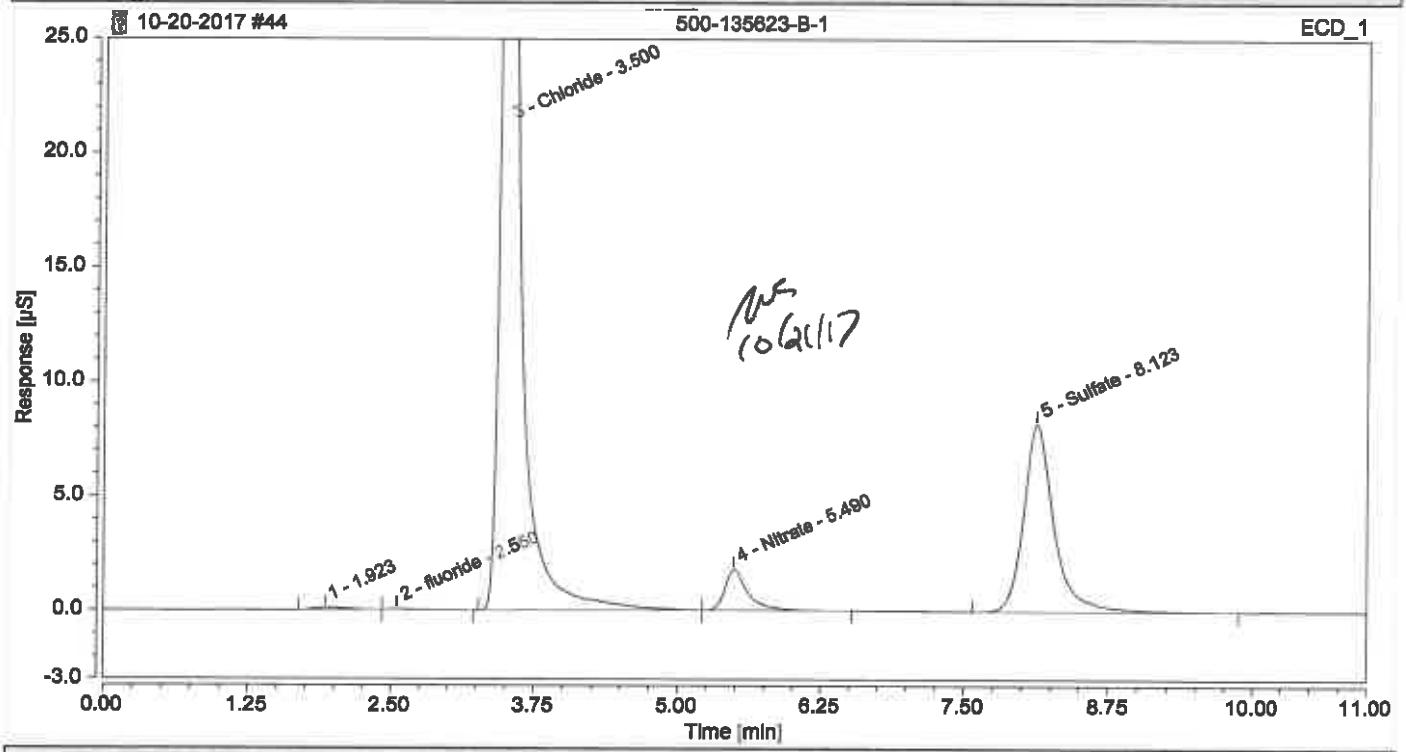
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.850	0.01063	0.040	7.94	10.51	n.a.
2	Chloride	3.390	0.00314	0.019	2.34	5.05	0.1032
3	Nitrite	4.037	0.03660	0.041	27.32	10.87	0.0979
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.493	0.02604	0.108	19.43	28.46	0.0765
5		6.380	0.01105	0.024	8.25	6.43	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		7.570	0.00313	0.013	2.34	3.34	n.a.
7	Sulfate	8.120	0.02842	0.093	21.21	24.45	0.0890
8		9.203	0.00758	0.022	5.66	5.78	n.a.
9		9.587	0.00740	0.019	5.52	5.11	n.a.
Total:			**0.134**	**0.381**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**BA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**20/Oct/17 21:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

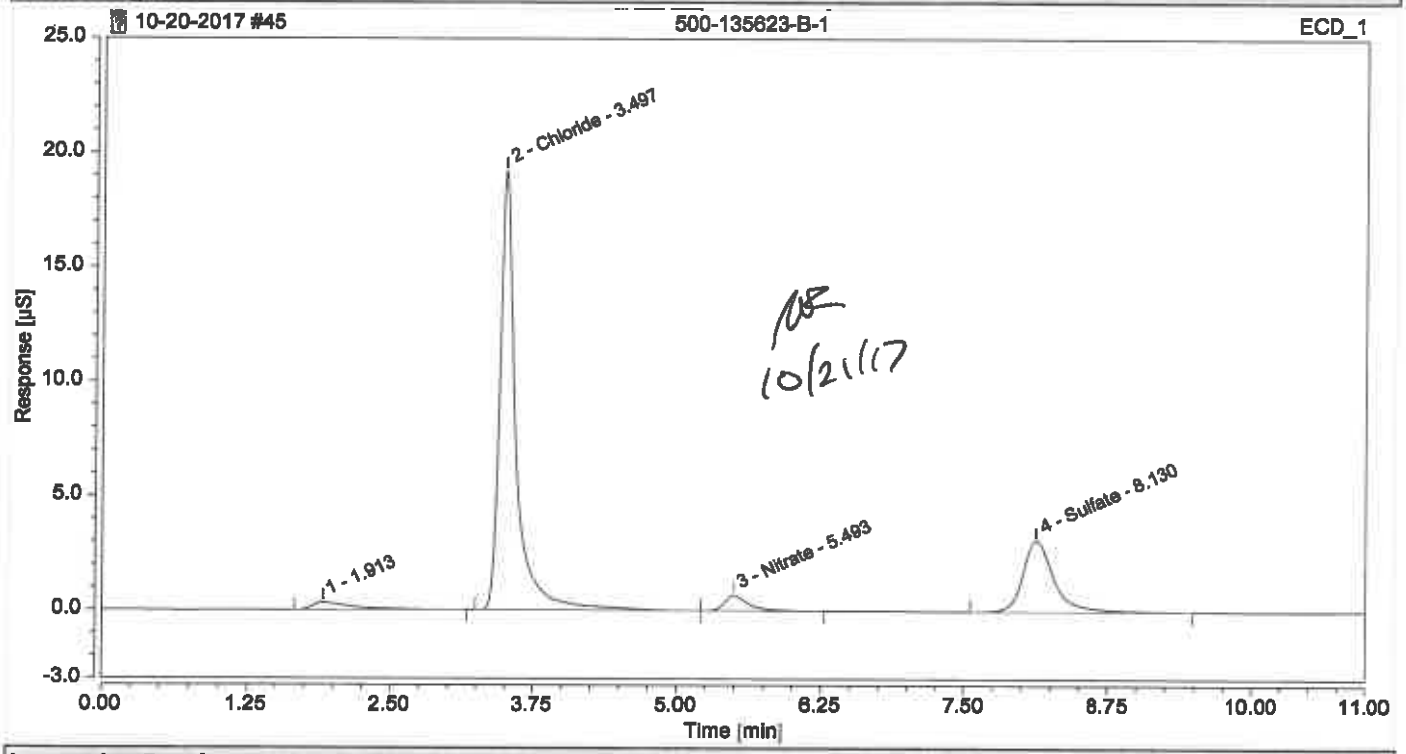
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.923	0.03336	0.098	0.28	0.15	n.a.
2	fluoride	2.550	0.01055	0.034	0.09	0.05	n.a.
3	Chloride	3.500	9.15275	56.000	75.52	84.66	396.4969
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.490	0.42086	1.796	3.47	2.71	8.3164
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.123	2.50221	8.217	20.65	12.42	146.3390
Total:			**12.120**	**66.144**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**BA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**20/Oct/17 21:17**	*Sample Weight:*	**1.0000**

Chromatogram



10/21/17

Integration Results

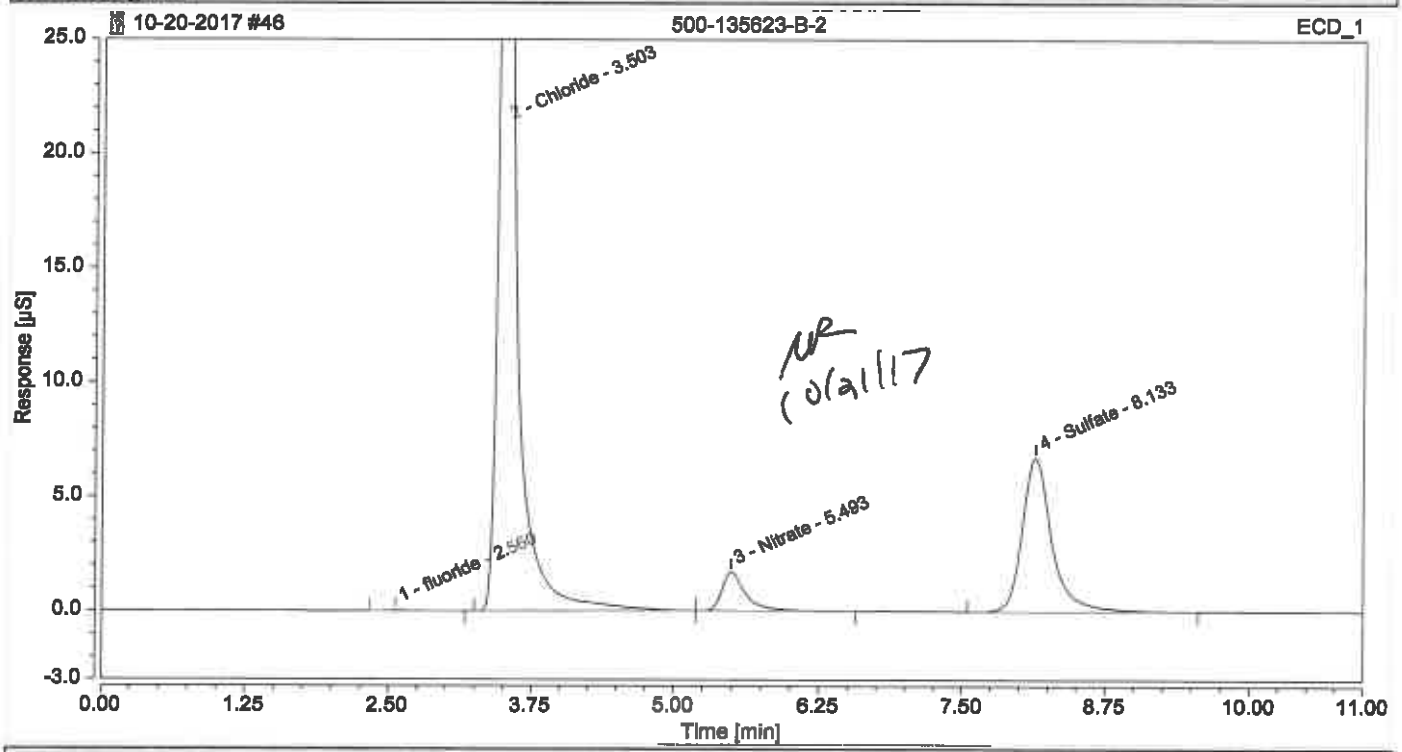
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.13474	0.323	2.95	1.38	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.497	3.27770	19.225	71.84	82.30	358.0707
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.493	0.16143	0.675	3.54	2.89	9.6424
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.130	0.98863	3.136	21.67	13.43	144.7284
Total:			**4.563**	**23.359**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**BA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**20/Oct/17 21:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

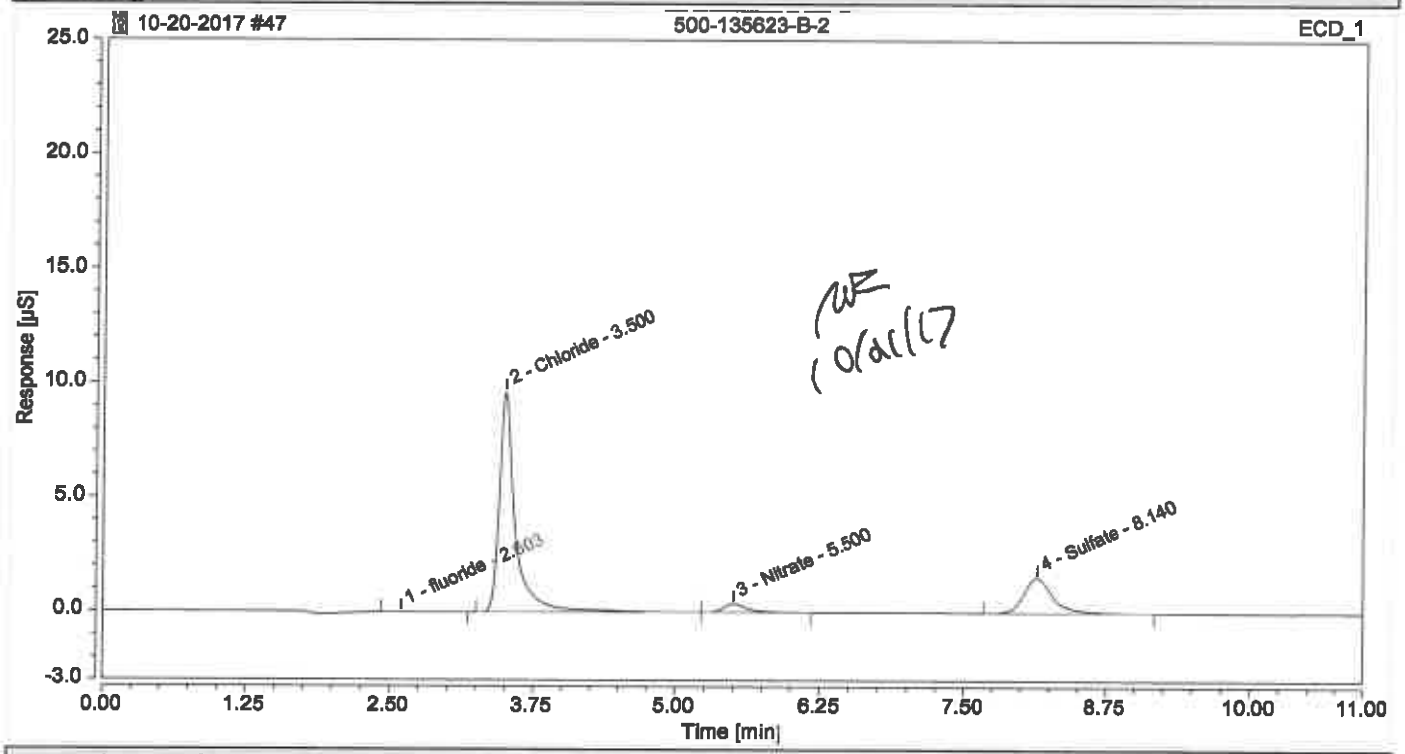
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.560	0.00938	0.032	0.09	0.06	n.a.
2	Chloride	3.503	7.81590	48.595	76.14	85.14	423.5832
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.493	0.40099	1.700	3.91	2.98	9.9685
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.133	2.03903	6.747	19.86	11.82	149.0902
Total:			**10.265**	**57.074**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**BA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**20/Oct/17 21:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

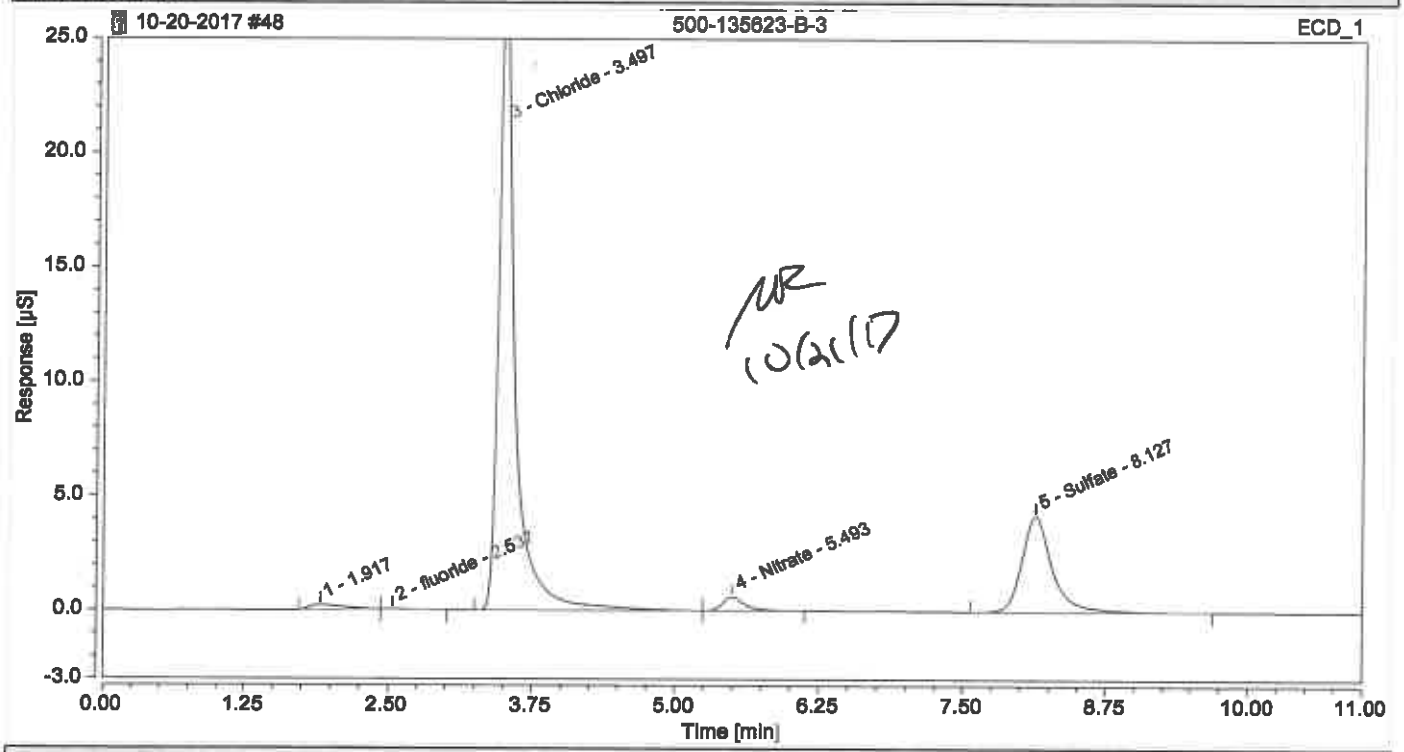
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.603	0.00637	0.018	0.29	0.15	n.a.
2	Chloride	3.500	1.62526	9.648	74.31	83.32	359.9642
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.500	0.08464	0.366	3.87	3.16	12.6848
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.140	0.47075	1.548	21.52	13.37	138.1406
Total:			**2.187**	**11.580**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**BA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**20/Oct/17 21:55**	*Sample Weight:*	**1.0000**

Chromatogram



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Integration Results

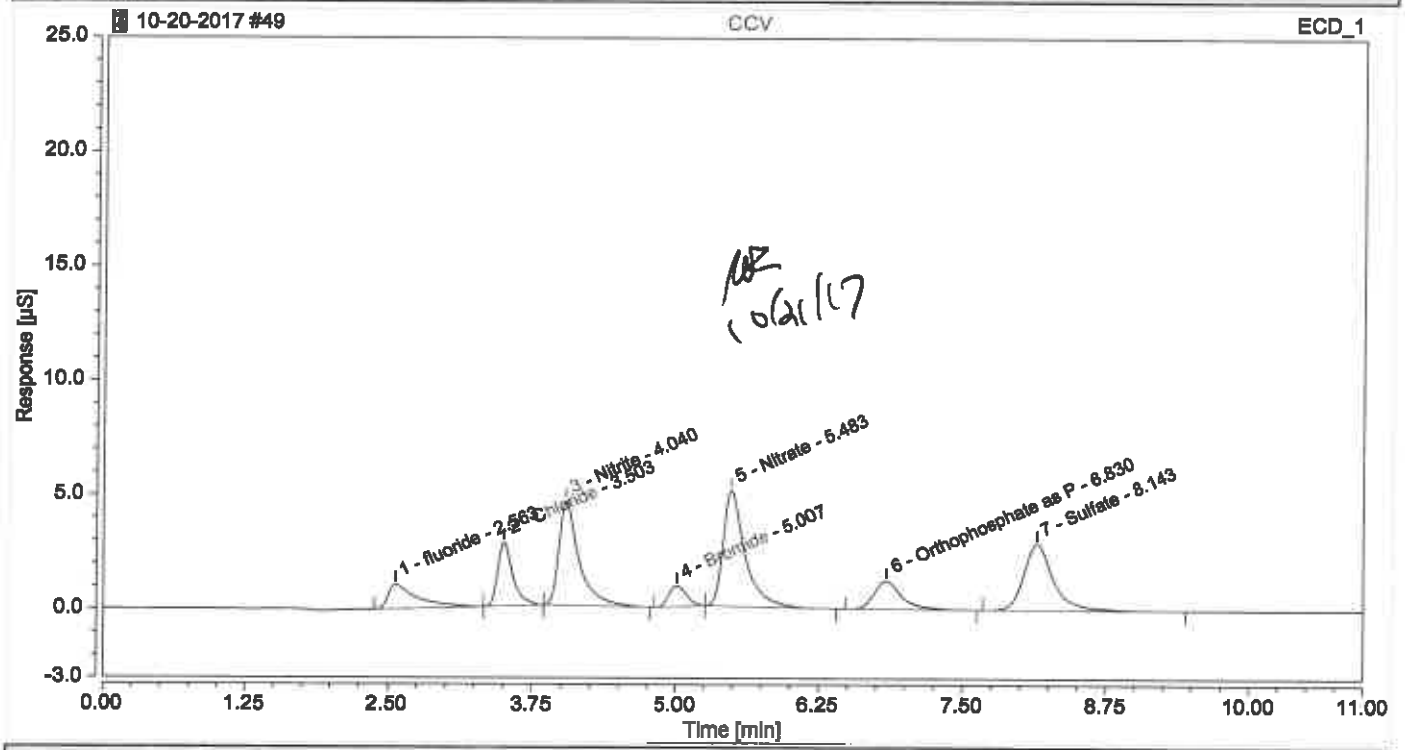
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.07162	0.217	1.15	0.66	n.a.
2	fluoride	2.537	0.00446	0.018	0.07	0.05	n.a.
3	Chloride MR	3.497	4.68066	27.994	75.43	84.69	203.7088
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.493	0.13888	0.602	2.24	1.82	3.4693
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.127	1.30991	4.223	21.11	12.78	76.6654
Total:			**6.206**	**33.053**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 22:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

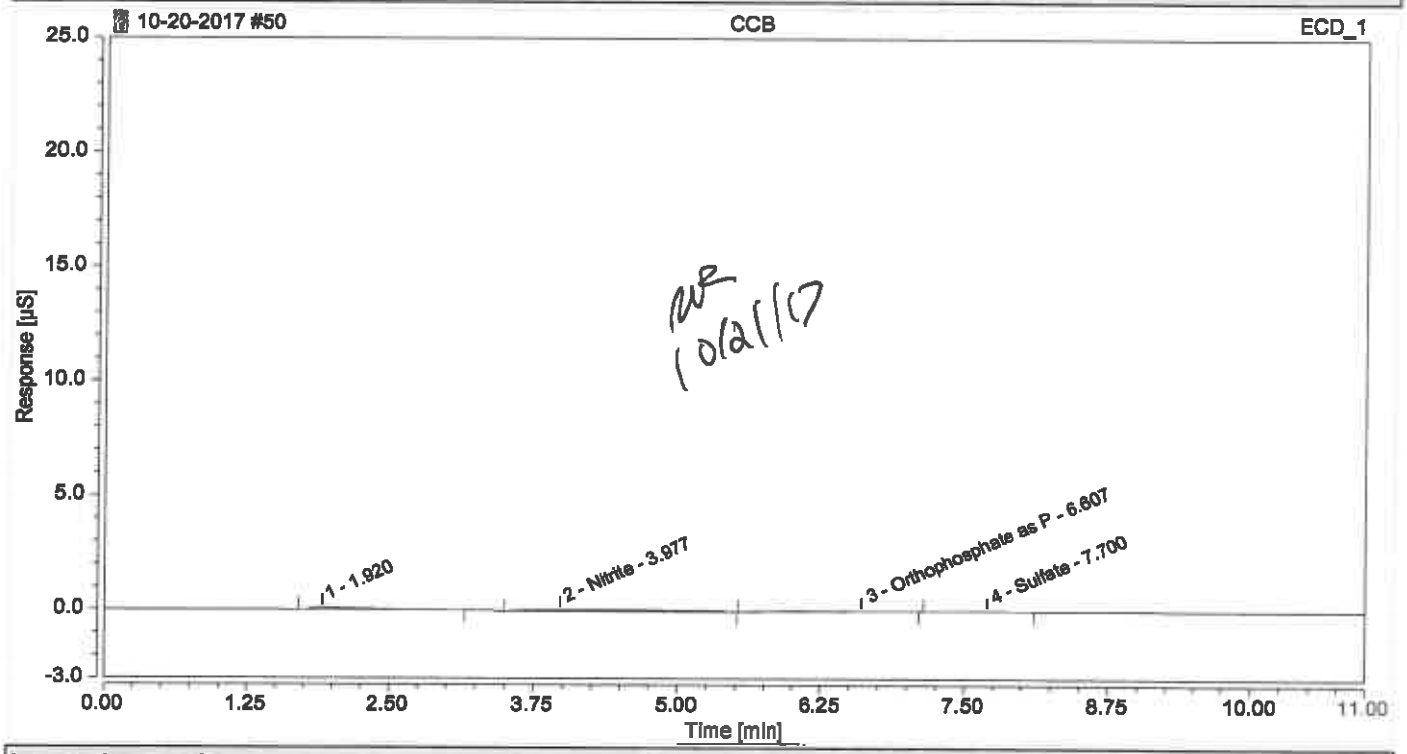
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.31359	1.073	7.50	5.77	0.6577
2	Chloride	3.503	0.42157	2.809	10.09	15.11	1.0051
3	Nitrite	4.040	0.92257	4.574	22.08	24.60	1.0228
4	Bromide	5.007	0.15664	0.902	3.75	4.85	1.0244
5	Nitrate	5.483	1.13537	5.085	27.17	27.35	1.0299
6	Orthophosphate as P	6.830	0.34604	1.229	8.28	6.61	1.0632
7	Sulfate	8.143	0.88273	2.923	21.13	15.72	2.5852
Total:			**4.179**	**18.595**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 22:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

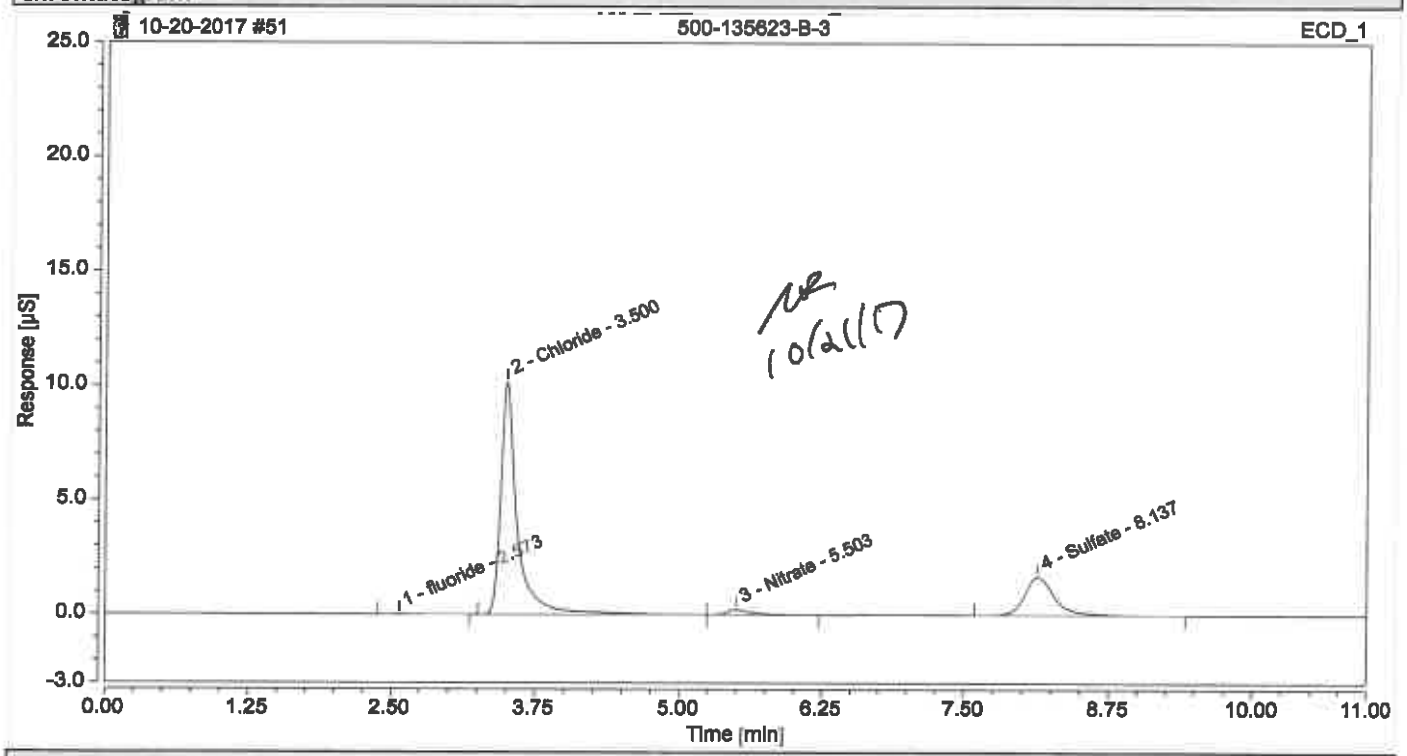
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.920	0.04661	0.092	23.11	45.58	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrite	3.977	0.11470	0.072	56.86	35.70	0.1795
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P	6.607	0.03240	0.021	16.06	10.22	0.1372
4	Sulfate	7.700	0.00801	0.017	3.97	8.50	0.0294
Total:			**0.202**	**0.201**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135623-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**BA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**20/Oct/17 22:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

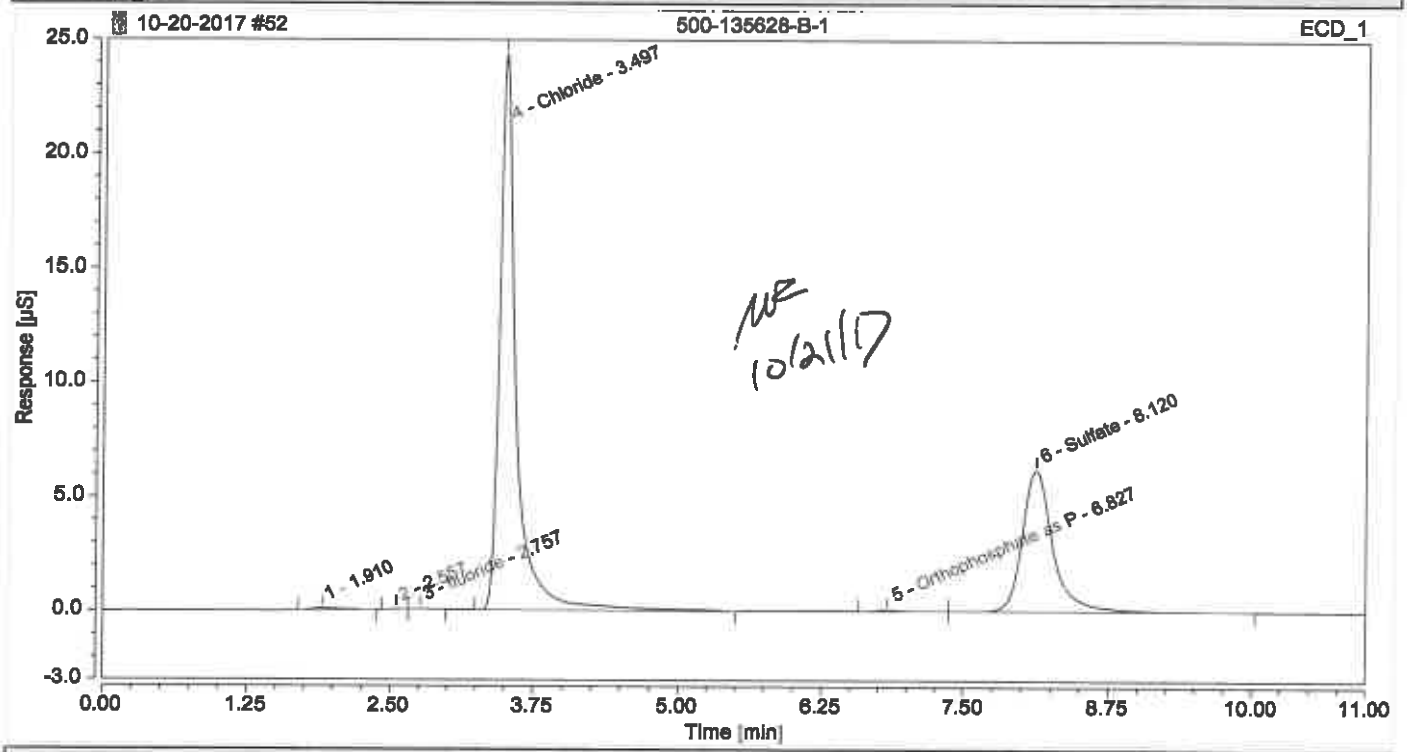
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.573	0.00563	0.015	0.24	0.13	n.a.
2	Chloride	3.500	1.73170	10.179	75.13	84.18	191.4531
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.503	0.05319	0.222	2.31	1.84	4.9908
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.137	0.51432	1.675	22.31	13.85	75.4367
Total:			**2.305**	**12.092**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135628-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**BA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**20/Oct/17 22:45**	*Sample Weight:*	**1.0000**

Chromatogram



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Integration Results

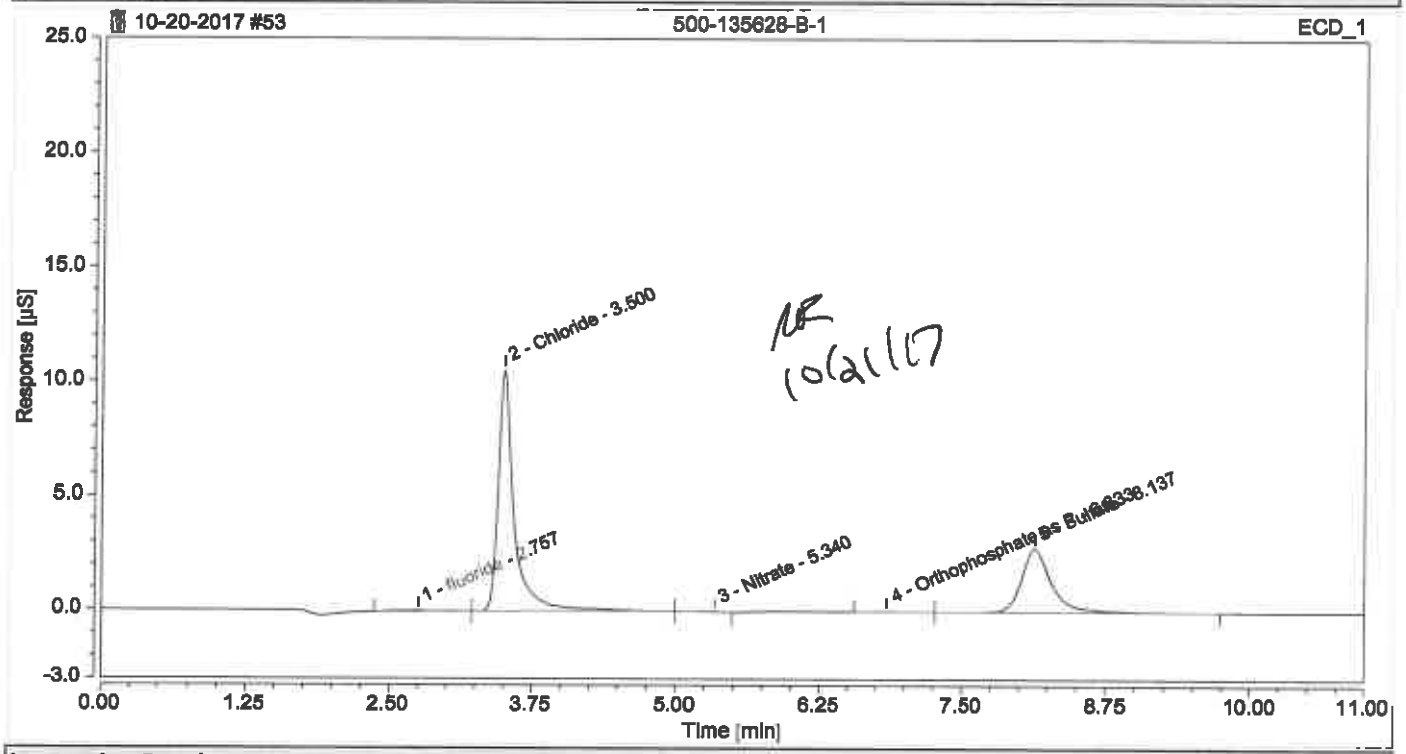
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.02779	0.088	0.46	0.29	n.a.
2		2.557	0.00261	0.020	0.04	0.07	n.a.
3	fluoride	2.757	0.00253	0.016	0.04	0.05	n.a.
4	Chloride OK	3.497	4.10754	24.335	67.91	79.24	447.5049
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Orthophosphate as P	6.827	0.01416	0.053	0.23	0.17	4.1680
6	Sulfate	8.120	1.89381	6.197	31.31	20.18	276.9651
Total:			**6.048**	**30.710**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135628-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**BB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**20/Oct/17 22:58**	*Sample Weight:*	**1.0000**

Chromatogram



10/21/17

Integration Results

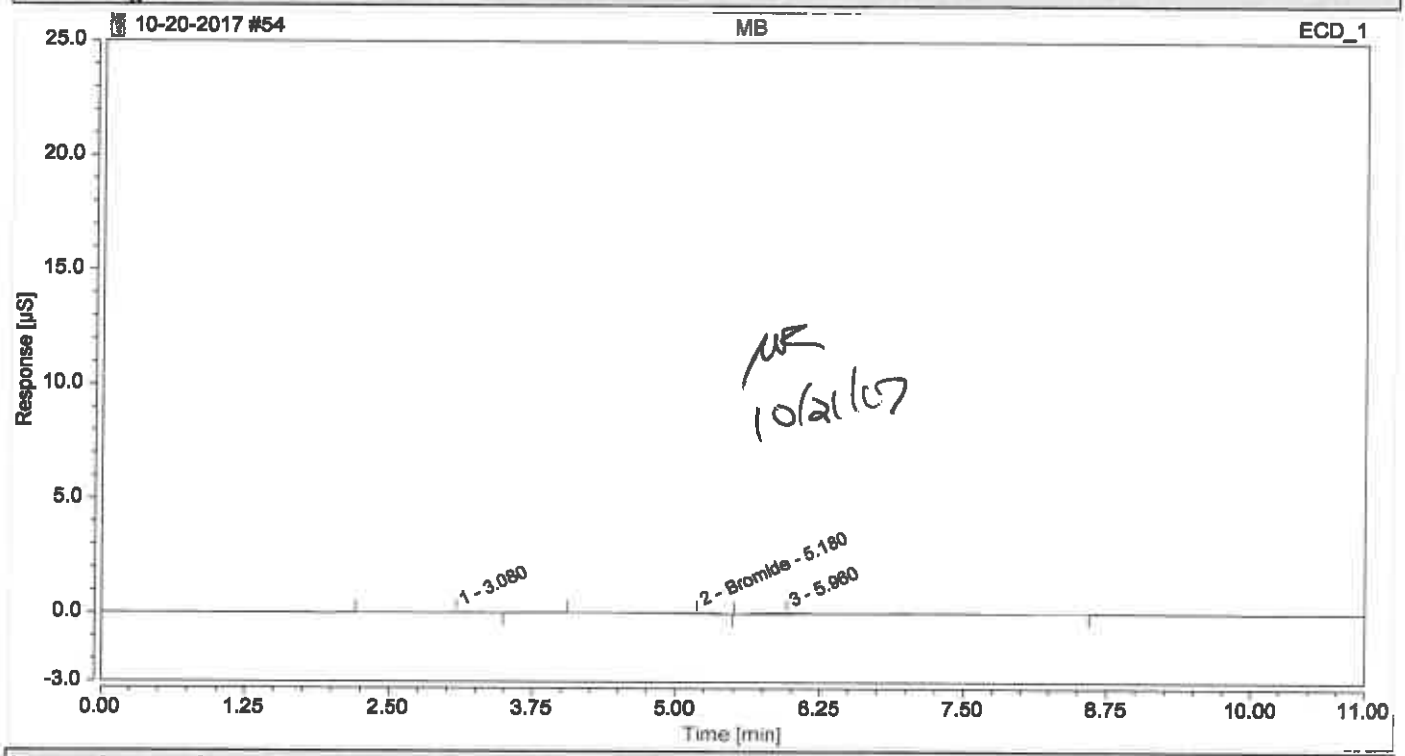
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.757	0.01432	0.028	0.54	0.21	n.a.
2	Chloride	3.500	1.75309	10.553	66.53	78.60	387.5184
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.340	0.00645	0.025	0.24	0.18	5.9650
4	Orthophosphate as P	6.833	0.00399	0.015	0.15	0.11	5.3346
5	Sulfate	8.137	0.85712	2.805	32.53	20.89	251.0313
Total:			**2.635**	**13.425**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 23:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

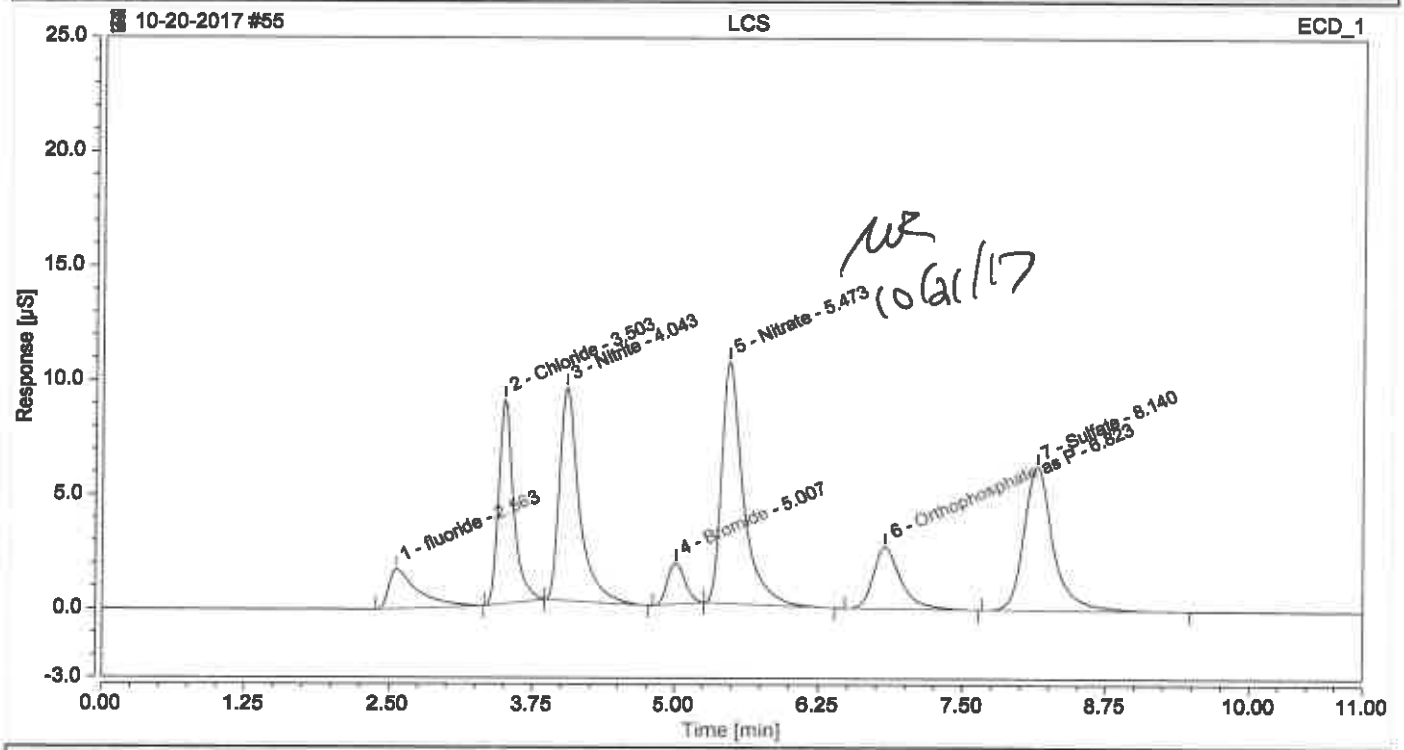
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.080	0.01618	0.019	13.55	18.33	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.180	0.03185	0.042	26.67	39.65	0.2293
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.960	0.07139	0.044	59.78	42.03	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.119**	**0.106**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 23:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

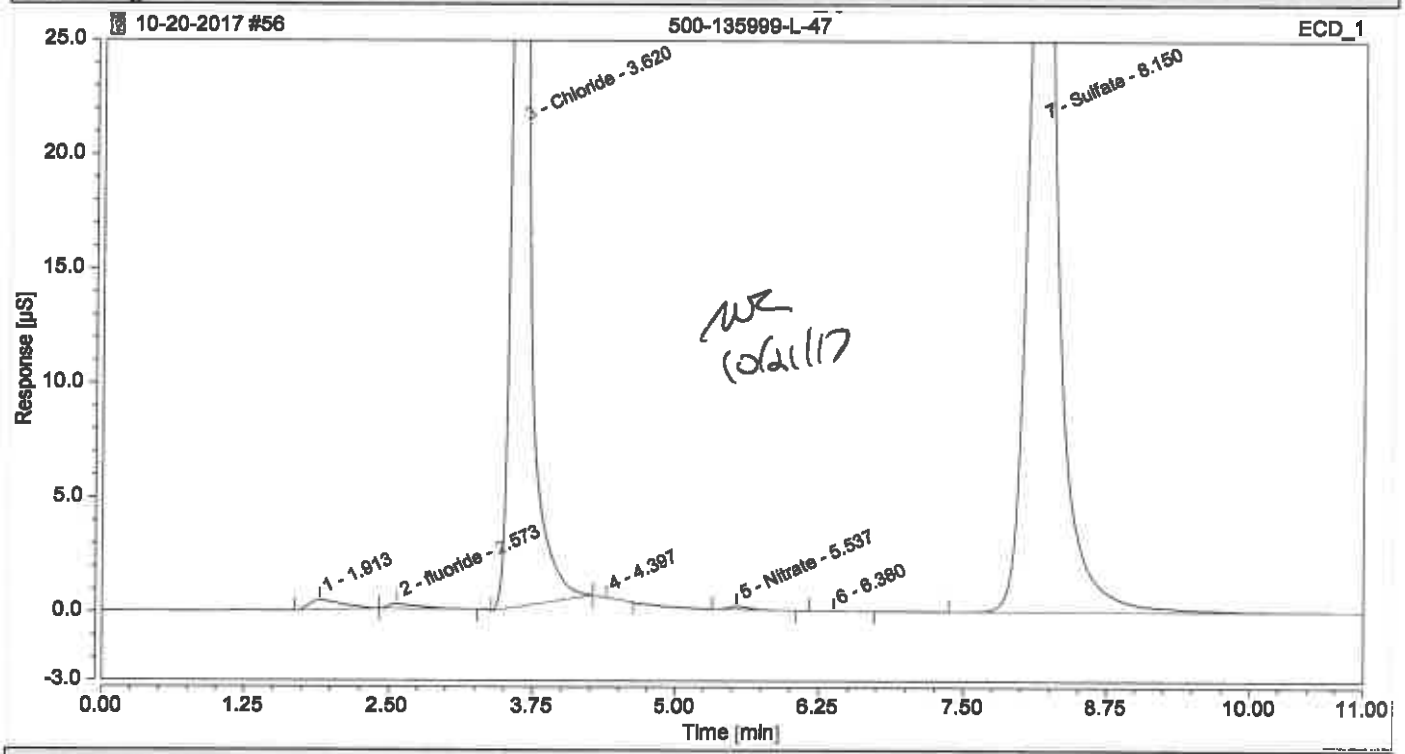
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.50449	1.751	5.61	4.22	1.0777
2	Chloride	3.503	1.33382	8.957	14.83	21.56	2.9715
3	Nitrite	4.043	1.86443	9.358	20.73	22.52	2.0061
4	Bromide	5.007	0.31391	1.818	3.49	4.38	2.0264
5	Nitrate	5.473	2.32751	10.613	25.88	25.54	2.0545
6	Orthophosphate as P	6.823	0.75490	2.728	8.39	6.57	2.2702
7	Sulfate	8.140	1.89554	6.322	21.07	15.22	5.5444
Total:			**8.995**	**41.547**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-47**	*Run Time (min):*	**11.00**
Vial Number:	**BC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**20/Oct/17 23:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

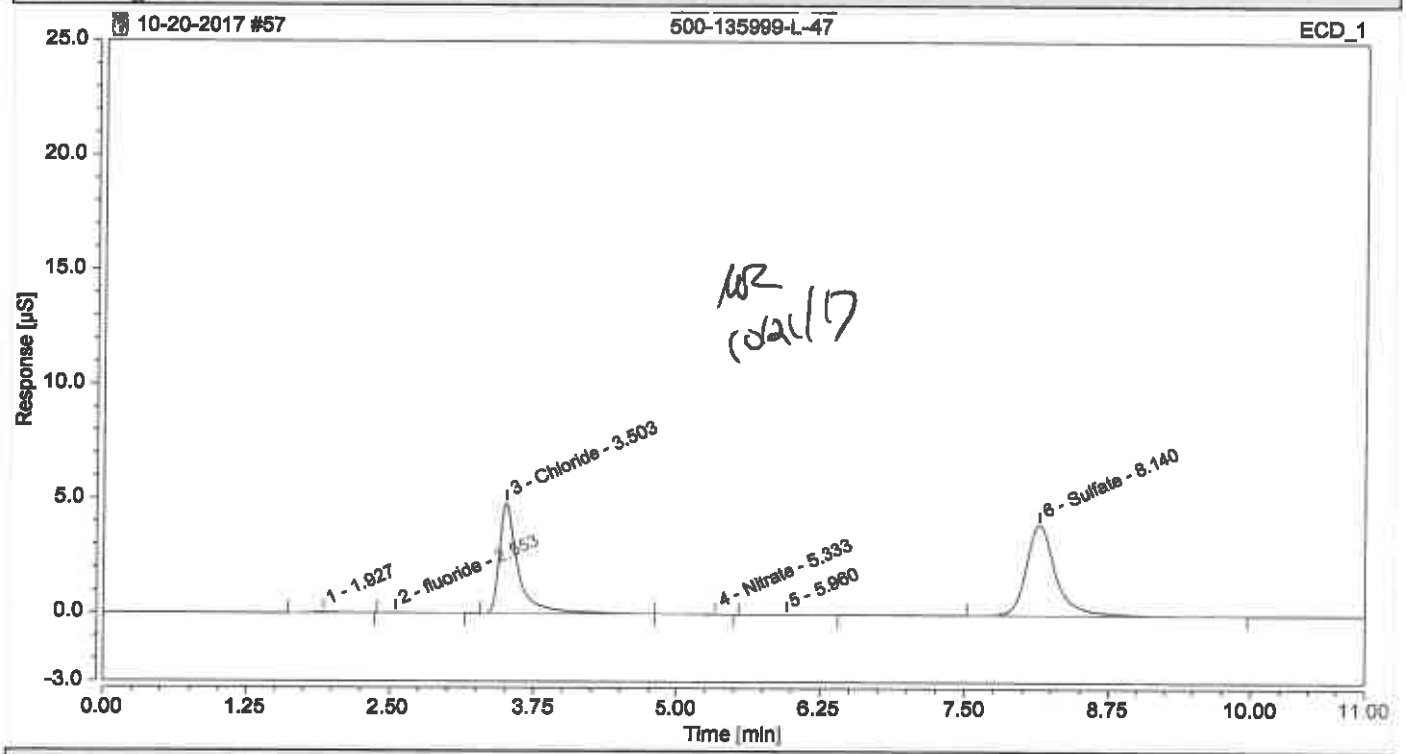
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.913	0.14068	0.420	0.61	0.31	n.a.
2	fluoride	2.573	0.06257	0.198	0.27	0.14	0.1054
3	Chloride	3.620	11.72047	97.059	50.63	70.84	25.3595
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.397	0.00247	0.014	0.01	0.01	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.537	0.02987	0.144	0.13	0.11	0.0798
6		6.380	0.00376	0.014	0.02	0.01	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.150	11.19001	39.155	48.34	28.58	32.7009
Total:			**23.150**	**137.004**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-47**	*Run Time (min):*	**11.00**
Vial Number:	**BC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**20/Oct/17 23:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

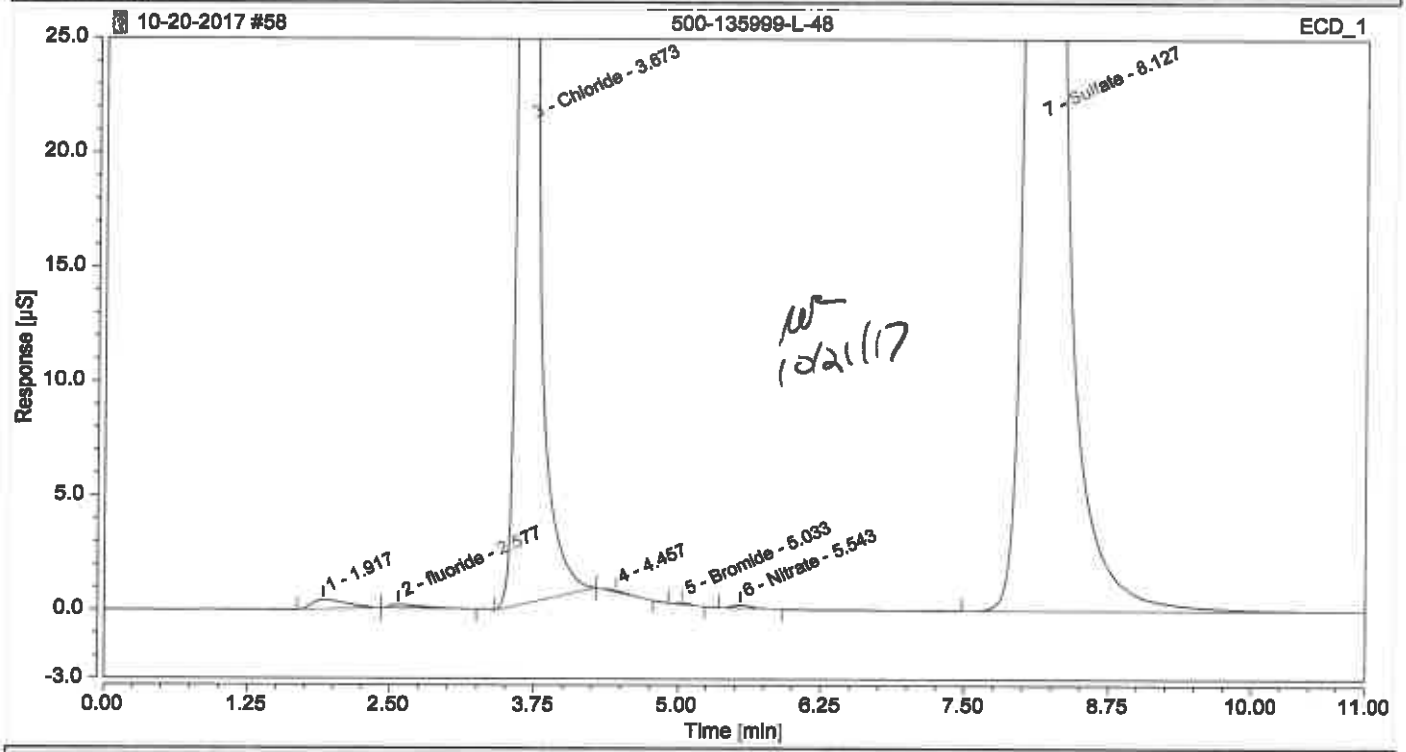
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.927	0.01414	0.041	0.65	0.45	n.a.
2	fluoride	2.553	0.00699	0.026	0.32	0.29	n.a.
3	Chloride	3.503	0.91271	4.838	41.91	54.13	20.6376
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate MR	5.333	0.00877	0.024	0.40	0.26	0.6164
5		5.960	0.00944	0.018	0.43	0.20	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.140	1.22561	3.991	56.28	44.66	35.8696
Total:			**2.178**	**8.937**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-48**	*Run Time (min):*	**11.00**
Vial Number:	**BC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 00:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

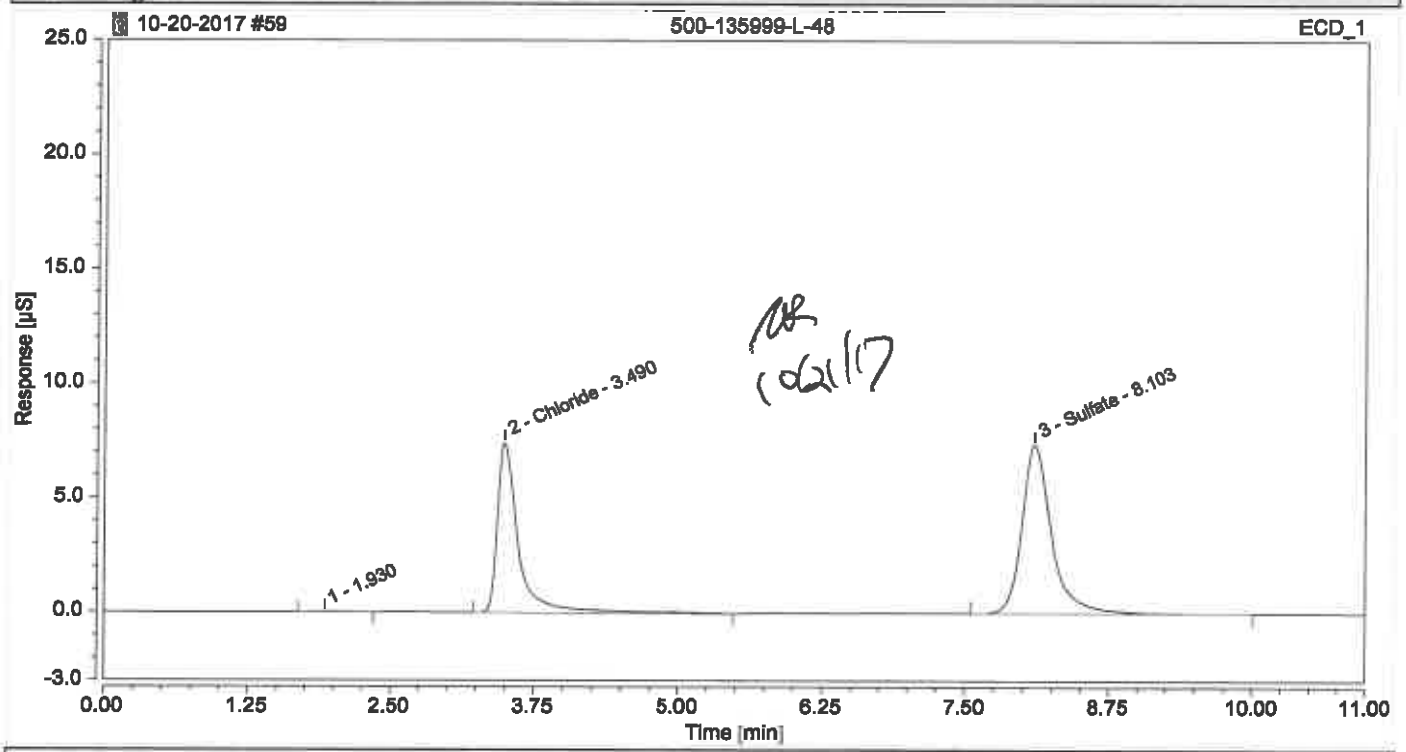
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.13922	0.400	0.28	0.14	n.a.
2	fluoride	2.577	0.05324	0.160	0.11	0.06	0.0849
3	Chloride	3.673	20.53162	175.607	41.25	62.92	44.3515
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.457	0.01591	0.064	0.03	0.02	n.a.
5	Bromide	5.033	0.01042	0.072	0.02	0.03	0.0927
6	Nitrate	5.543	0.02735	0.143	0.05	0.05	0.0776
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	8.127	28.99849	102.657	58.26	36.78	84.7338
Total:			**49.776**	**279.103**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-48**	*Run Time (min):*	**11.00**
Vial Number:	**BC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 00:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

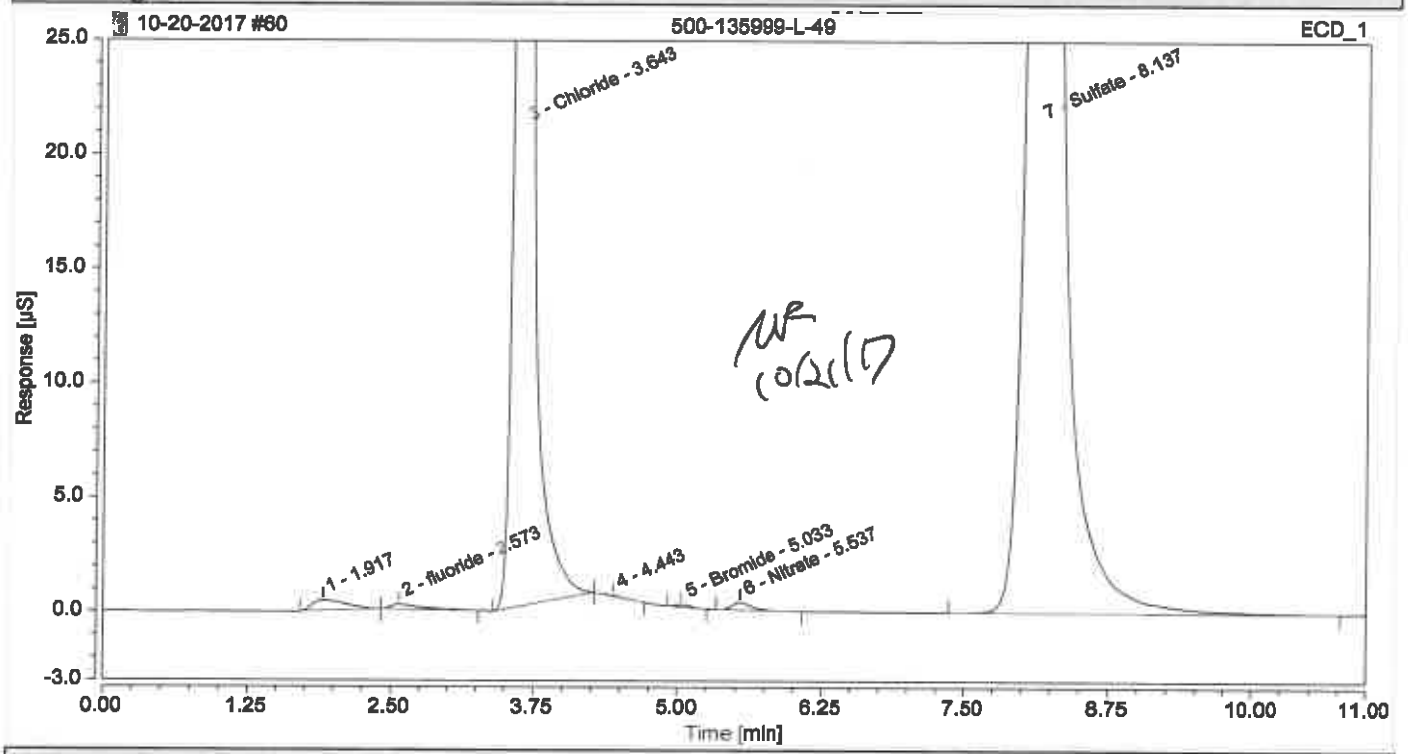
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.930	0.01197	0.034	0.31	0.23	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.490	1.61051	7.455	41.70	50.00	35.6785
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.103	2.23959	7.420	57.99	49.77	65.4961
Total:			**3.862**	**14.909**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-49**	*Run Time (min):*	**11.00**
Vial Number:	**BC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 00:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

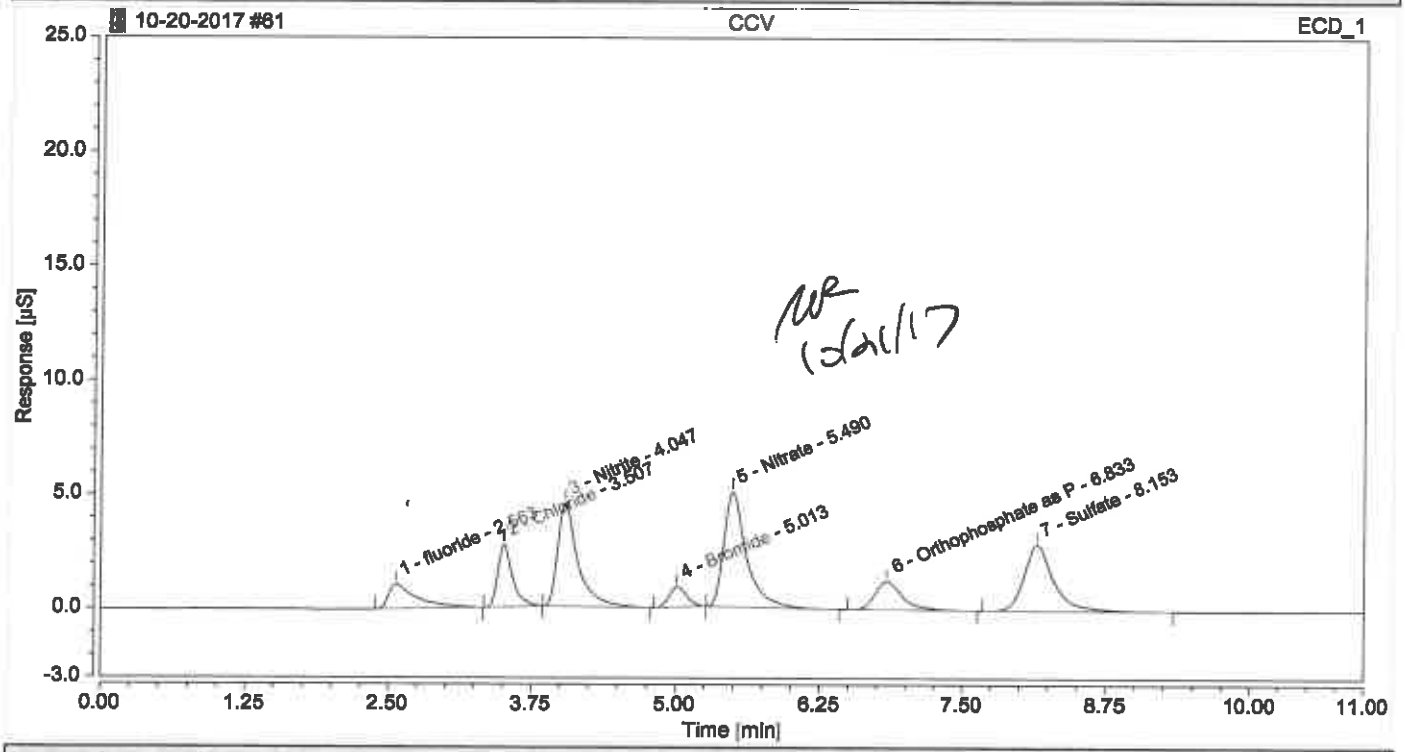
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.15514	0.465	0.40	0.22	n.a.
2	fluoride	2.573	0.06968	0.213	0.18	0.10	0.1210
3	Chloride	3.643	15.92355	134.848	40.90	62.43	34.4190
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.443	0.01034	0.044	0.03	0.02	n.a.
5	Bromide	5.033	0.01575	0.104	0.04	0.05	0.1267
6	Nitrate	5.537	0.06714	0.337	0.17	0.16	0.1118
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	8.137	22.68853	79.982	58.28	37.03	66.2974
Total:			**38.930**	**215.993**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 00:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

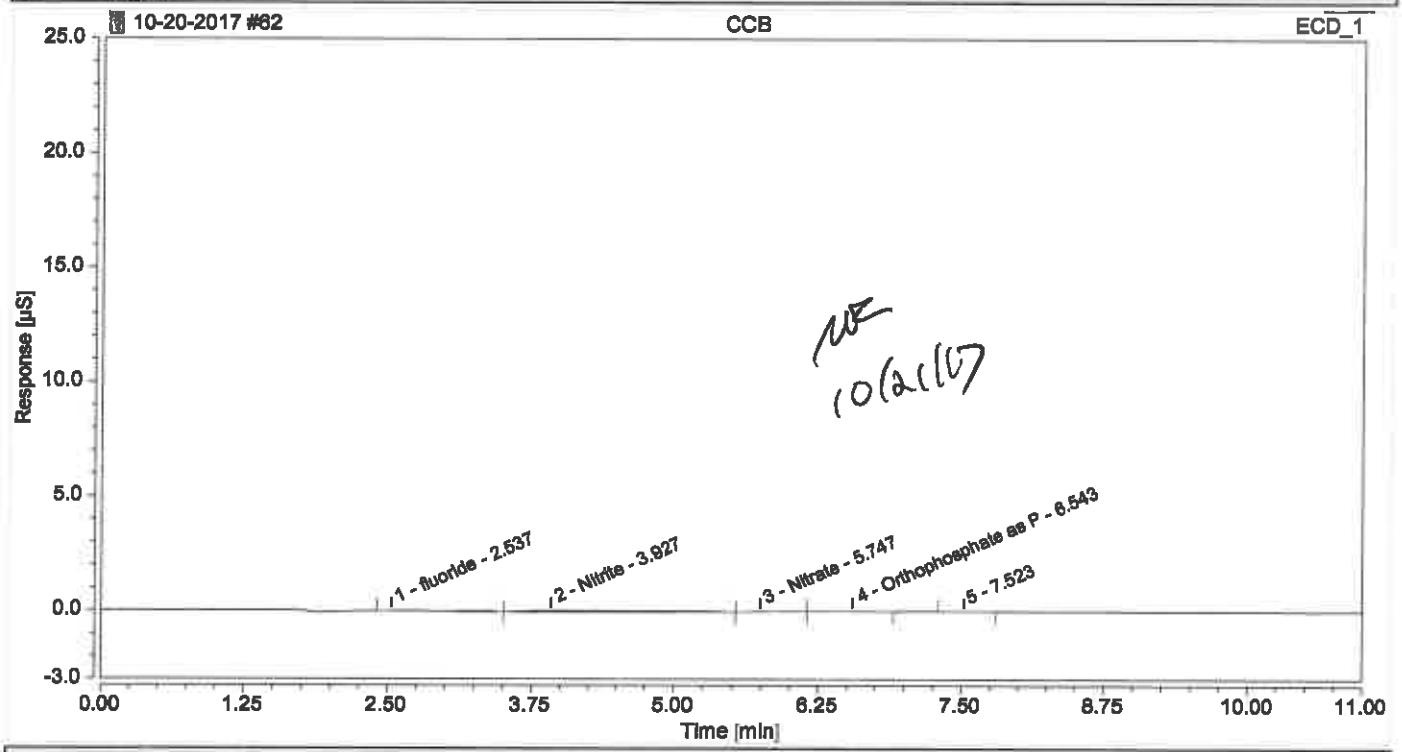
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.31550	1.080	7.55	5.85	0.6619
2	Chloride	3.507	0.41893	2.762	10.03	14.96	0.9994
3	Nitrite	4.047	0.92082	4.543	22.04	24.61	1.0210
4	Bromide	5.013	0.15673	0.894	3.75	4.84	1.0250
5	Nitrate	5.490	1.13080	5.039	27.07	27.29	1.0260
6	Orthophosphate as P	6.833	0.34654	1.234	8.29	6.68	1.0646
7	Sulfate	8.153	0.88868	2.912	21.27	15.77	2.6025
Total:			**4.178**	**18.463**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 00:52**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

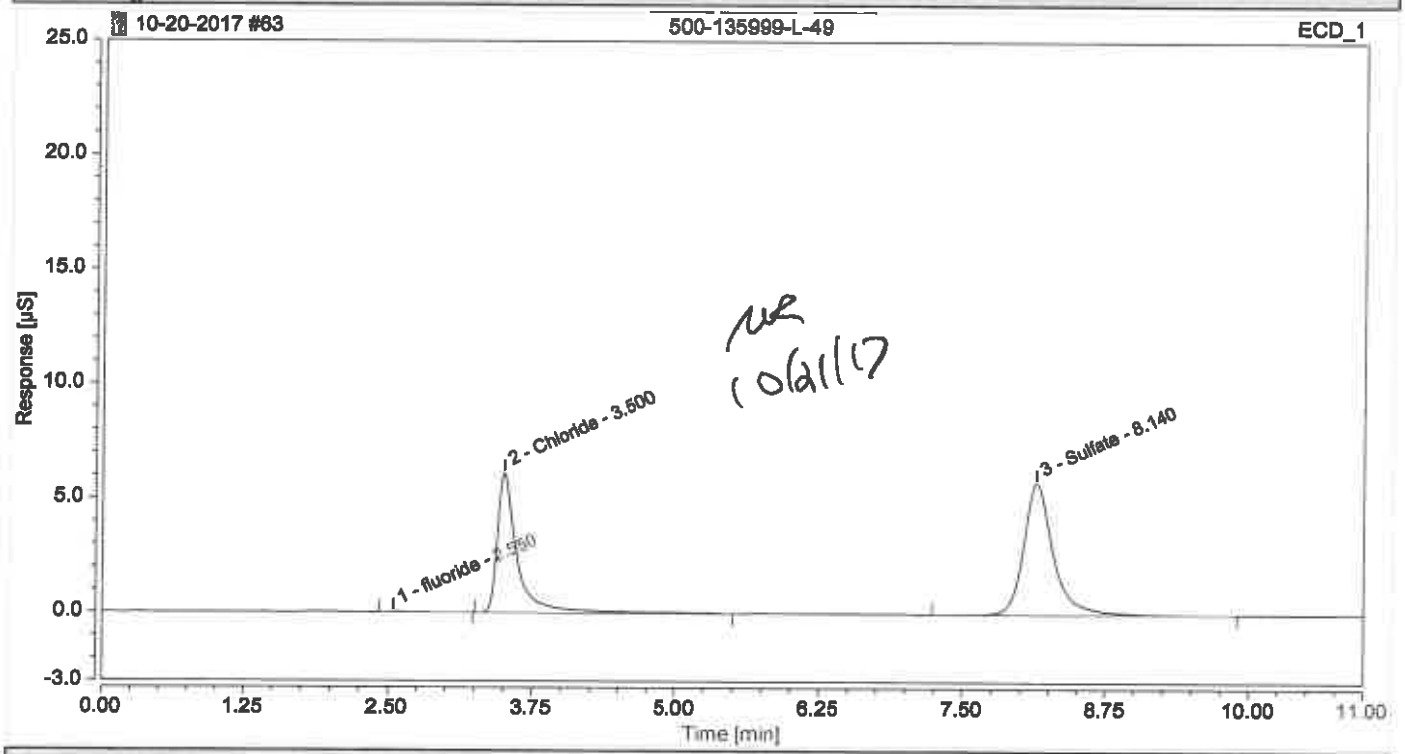
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.537	0.03186	0.013	21.05	11.23	0.0378
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrite	3.927	0.11008	0.072	72.75	62.83	0.1747
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.747	0.00704	0.019	4.65	16.76	0.0602
4	Orthophosphate as P	6.543	0.00099	0.005	0.65	4.12	0.0445
5		7.523	0.00135	0.006	0.89	5.06	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.151**	**0.115**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-49**	*Run Time (min):*	**11.00**
Vial Number:	**BC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 01:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

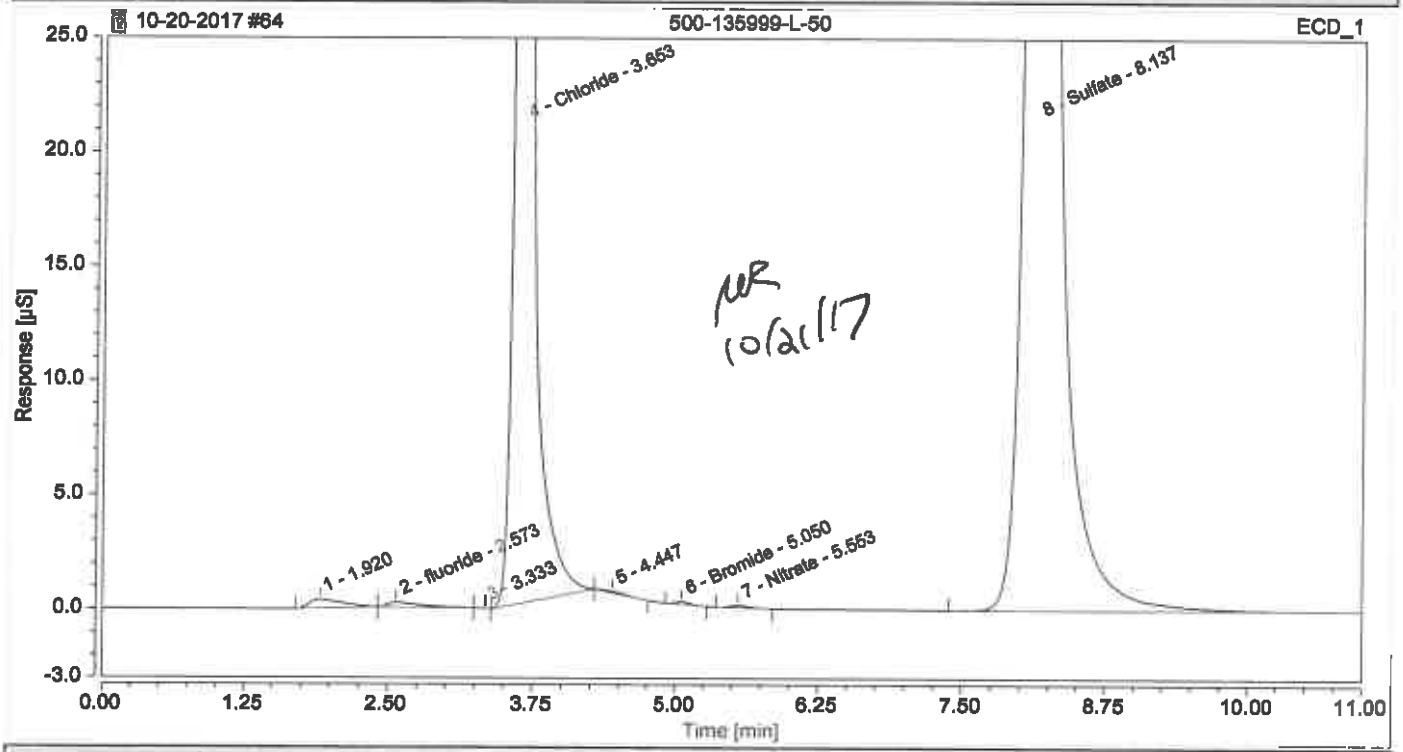
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.550	0.00671	0.024	0.22	0.20	n.a.
2	Chloride	3.500	1.24616	6.123	41.36	51.41	27.8250
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate NO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.140	1.76011	5.763	58.42	48.39	51.4868
Total:			**3.013**	**11.910**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-50**	*Run Time (min):*	**11.00**
Vial Number:	**BC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 01:17**	*Sample Weight:*	**1.0000**

Chromatogram



MR 10/21/17

Integration Results

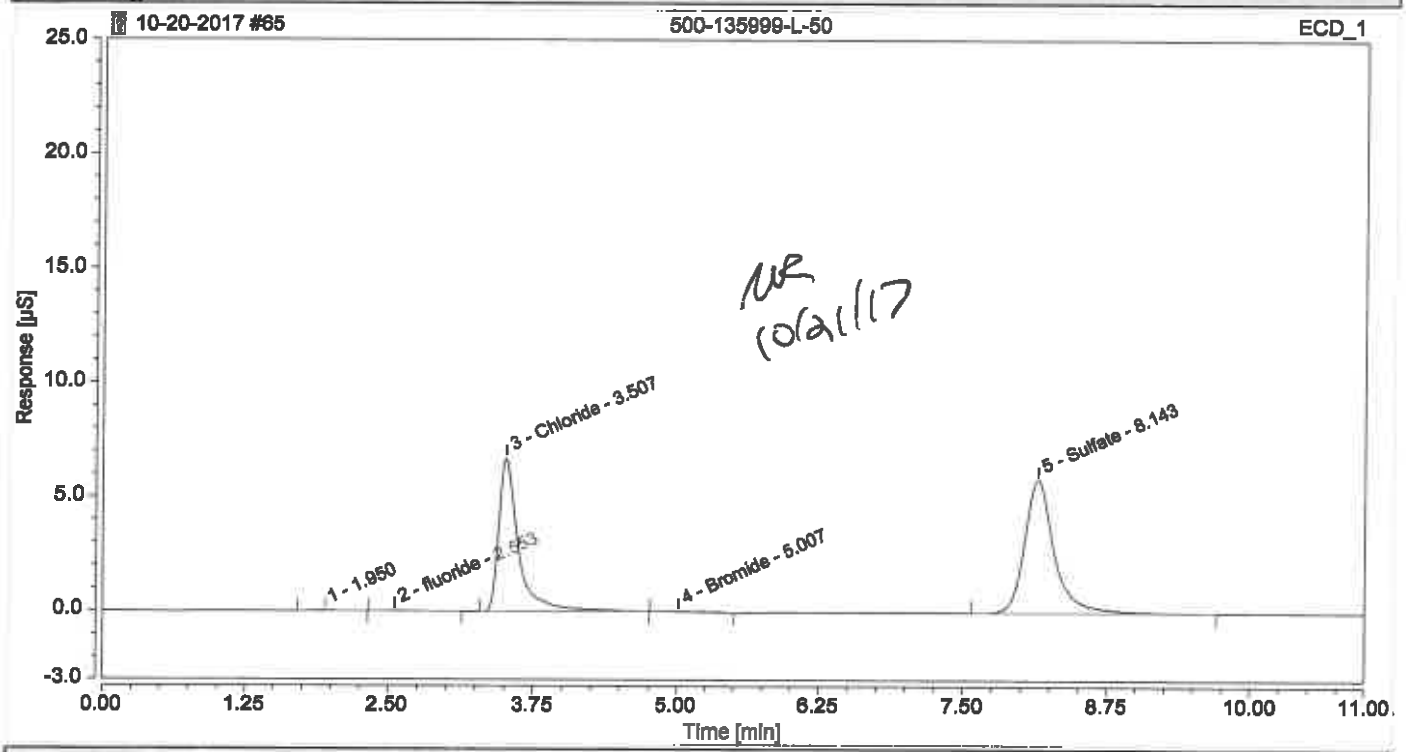
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.920	0.12889	0.378	0.32	0.17	n.a.
2	fluoride	2.573	0.06958	0.211	0.17	0.09	0.1208
3		3.333	0.00214	0.034	0.01	0.02	n.a.
4	Chloride	3.653	17.56242	147.664	43.71	64.90	37.9515
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.447	0.01728	0.070	0.04	0.03	n.a.
6	Bromide	5.050	0.01677	0.113	0.04	0.05	0.1332
7	Nitrate	5.553	0.01743	0.093	0.04	0.04	0.0691
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	8.137	22.36580	78.947	55.66	34.70	65.3544
Total:			**40.180**	**227.510**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135999-L-50**	*Run Time (min):*	**11.00**
Vial Number:	**BC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**NO3**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 01:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

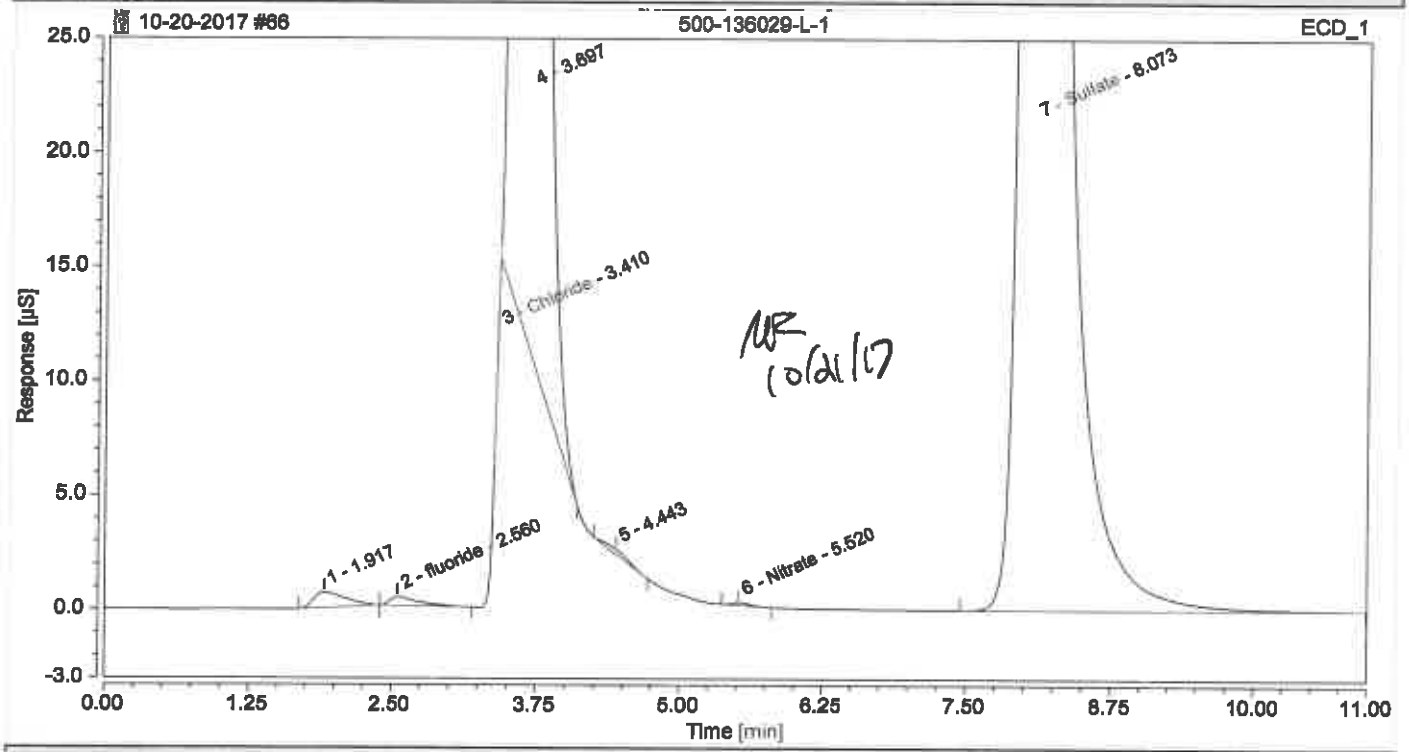
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.950	0.00788	0.026	0.25	0.20	n.a.
2	fluoride	2.553	0.00710	0.029	0.23	0.23	n.a.
3	Chloride	3.507	1.32639	6.725	42.36	53.20	29.5544
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.007	0.01681	0.030	0.54	0.24	1.3344
n.a.	Nitrate µS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.143	1.77293	5.832	56.62	46.13	51.8614
Total:			3.131	12.642	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1**	*Run Time (min):*	**11.00**
Vial Number:	**BD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 01:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

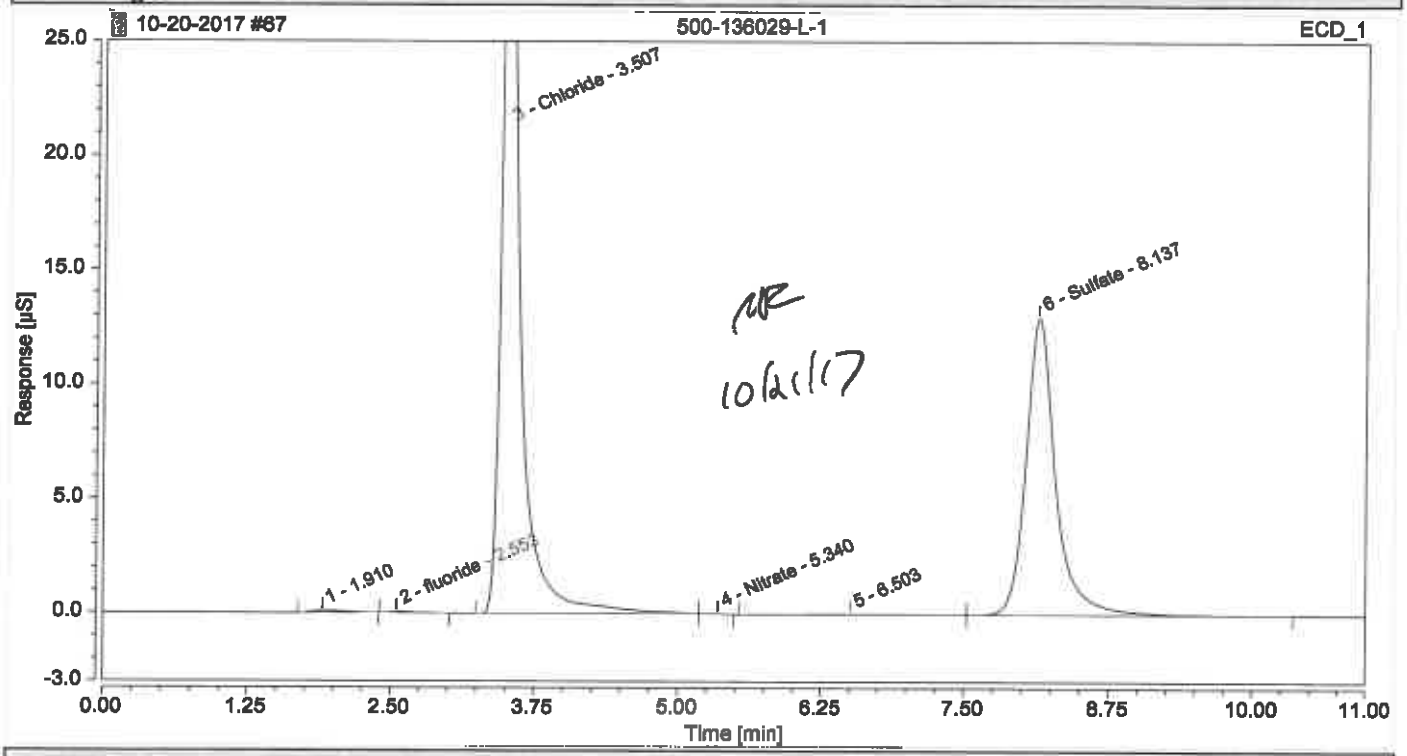
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.22451	0.683	0.17	0.11	n.a.
2	fluoride	2.560	0.11247	0.378	0.09	0.06	0.2152
3	Chloride OK	3.410	0.02077	0.707	0.02	0.11	0.1412
4		3.697	79.19024	464.960	60.76	73.18	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.443	0.05072	0.213	0.04	0.03	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Nitrate	5.520	0.02331	0.128	0.02	0.02	0.0741
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	8.073	50.71611	168.280	38.91	26.49	148.1883
Total:			**130.338**	**635.349**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1**	*Run Time (min):*	**11.00**
Vial Number:	**BD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 01:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

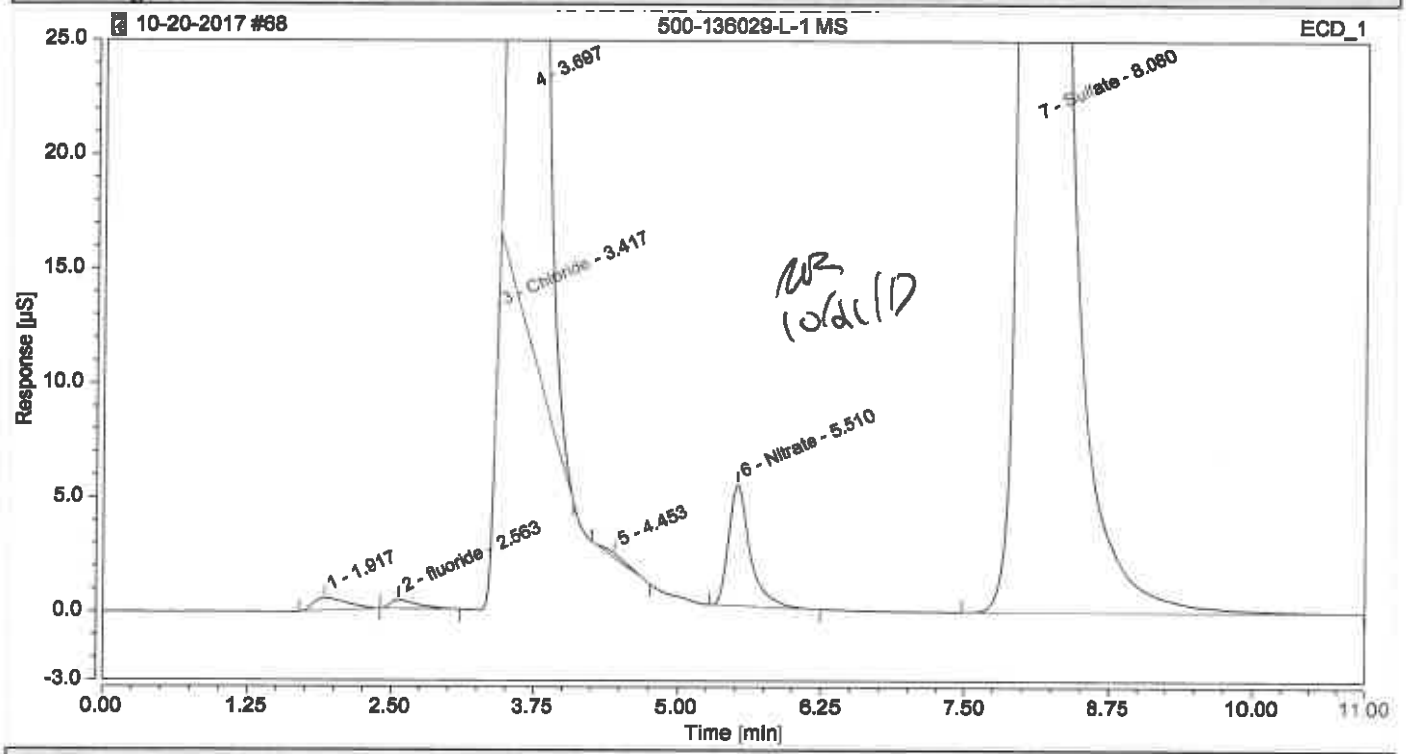
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.910	0.02943	0.089	0.27	0.17	n.a.
2	fluoride	2.553	0.01209	0.048	0.11	0.09	n.a.
3	Chloride OK	3.507	6.84051	39.642	63.18	75.05	148.4091
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate NO	5.340	0.00211	0.012	0.02	0.02	0.5592
5		6.503	0.02963	0.021	0.27	0.04	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	8.137	3.91248	13.006	36.14	24.62	114.3747
Total:			**10.826**	**52.818**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**BD3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 02:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

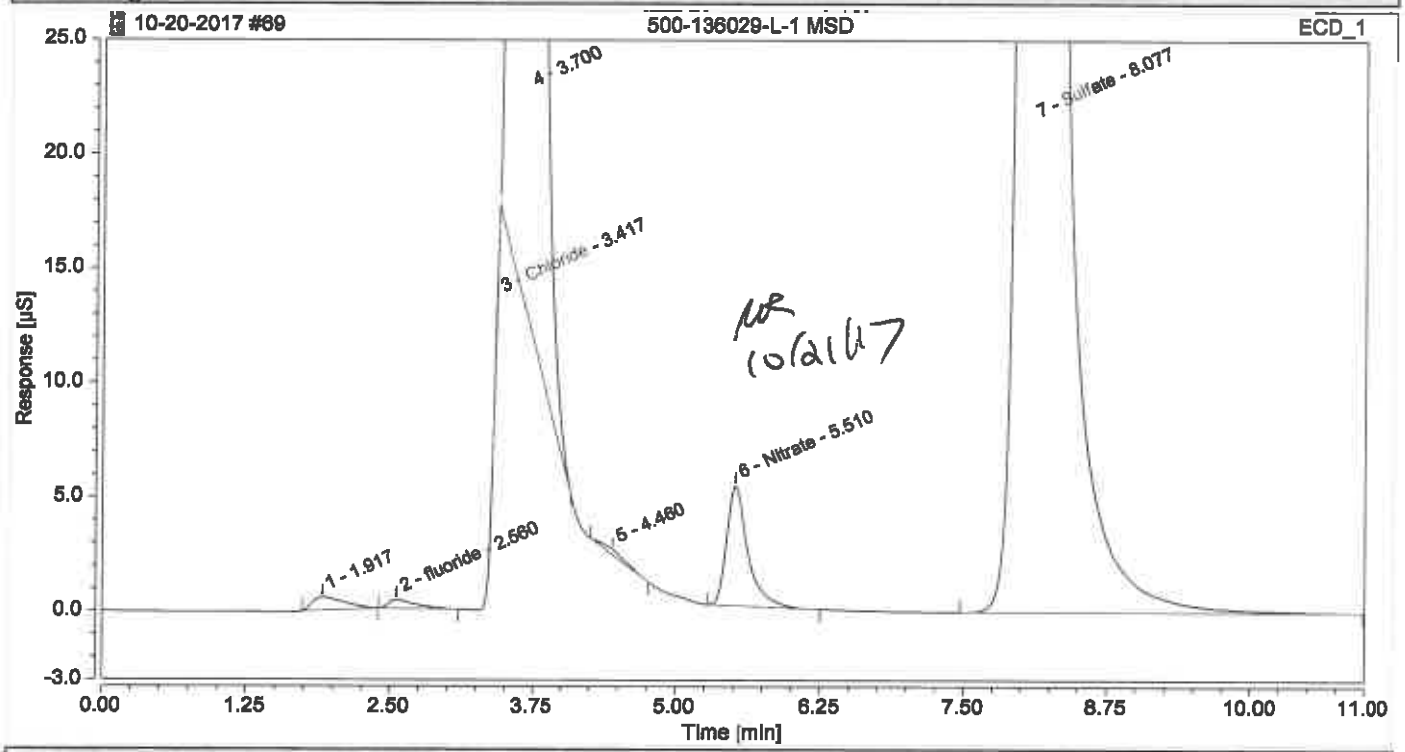
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.18329	0.556	0.14	0.09	n.a.
2	fluoride	2.563	0.10559	0.383	0.08	0.06	0.2001
3	Chloride	3.417	0.02408	0.805	0.02	0.13	0.1484
4		3.697	76.98073	456.353	59.64	72.19	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.453	0.04717	0.198	0.04	0.03	n.a.
n.a	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Nitrate	5.510	1.13899	5.311	0.88	0.84	1.0330
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.080	50.58514	168.534	39.19	26.66	147.8057
Total:			**129.065**	**632.139**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1** MSD	*Run Time (min):*	**11.00**
Vial Number:	**BD4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 02:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

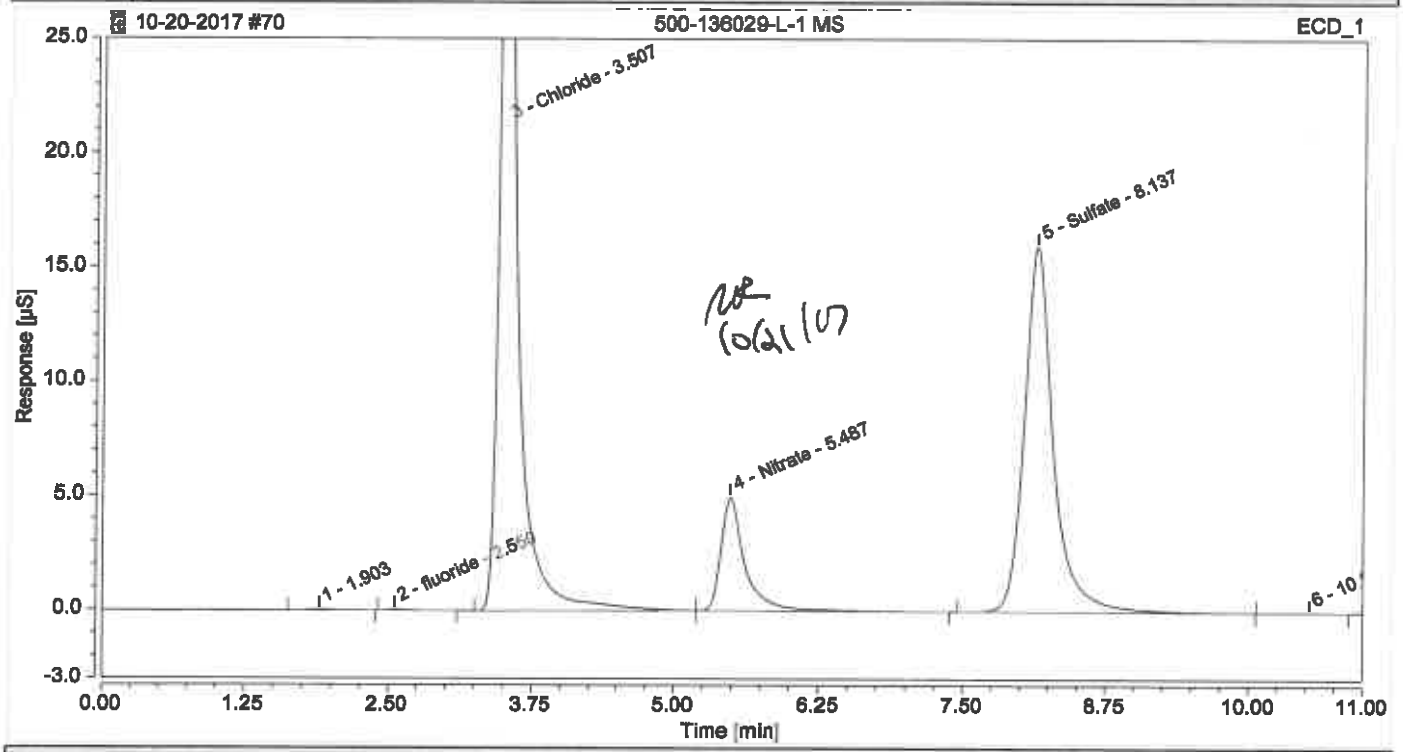
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.18526	0.571	0.14	0.09	n.a.
2	fluoride	2.560	0.10360	0.382	0.08	0.06	0.1957
3	Chloride	3.417	0.03234	0.991	0.02	0.15	0.1662
4		3.700	77.97622	461.629	59.58	72.12	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.460	0.06285	0.249	0.05	0.04	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Nitrate	5.510	1.11989	5.244	0.86	0.82	1.0166
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.077	51.40419	171.028	39.27	26.72	150.1988
Total:			**130.884**	**640.094**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**BD5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 02:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

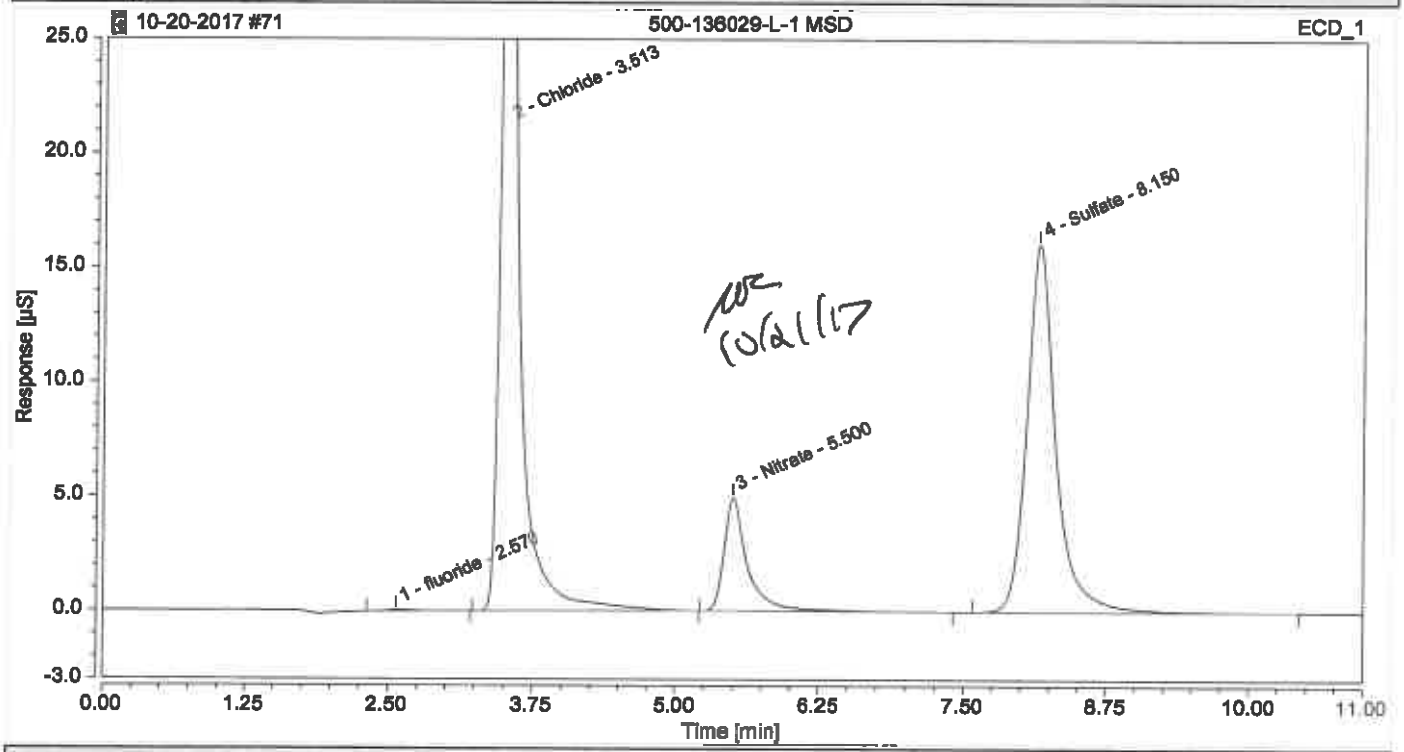
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.903	0.01270	0.036	0.10	0.06	n.a.
2	fluoride	2.550	0.00973	0.045	0.07	0.07	n.a.
3	Chloride	3.507	7.10432	41.614	54.24	66.39	154.0953
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.487	1.18211	4.951	9.02	7.90	10.7009
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.137	4.78531	16.022	36.53	25.56	139.8770
6		10.533	0.00414	0.011	0.03	0.02	n.a.
Total:			**13.098**	**62.679**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1** MSD	*Run Time (min):*	**11.00**
Vial Number:	**BD6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**21/Oct/17 02:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

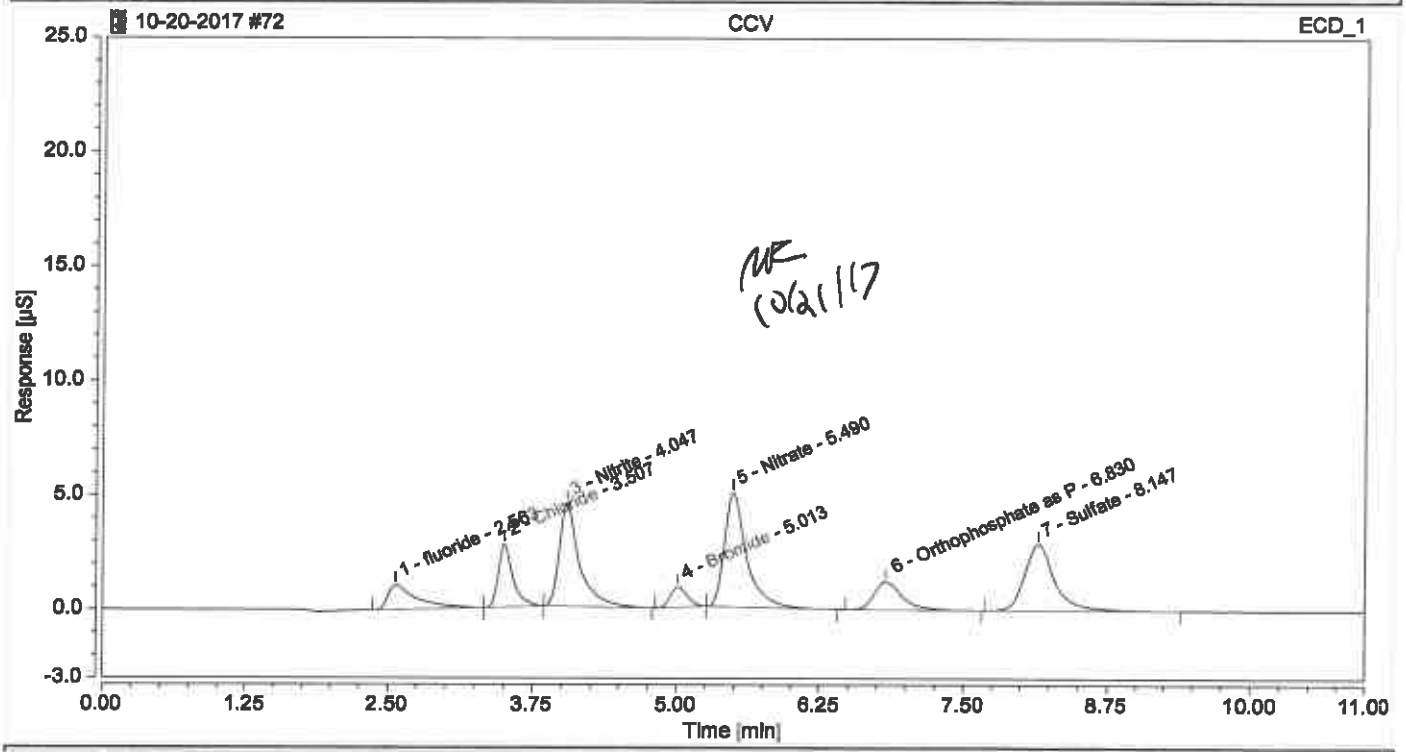
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.570	0.02135	0.065	0.16	0.10	0.1472
2	Chloride	3.513	7.16031	42.526	54.41	66.78	155.3023
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.500	1.18980	4.966	9.04	7.80	10.7670
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.150	4.78896	16.128	36.39	25.32	139.9837
Total:			**13.160**	**63.685**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 02:59**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

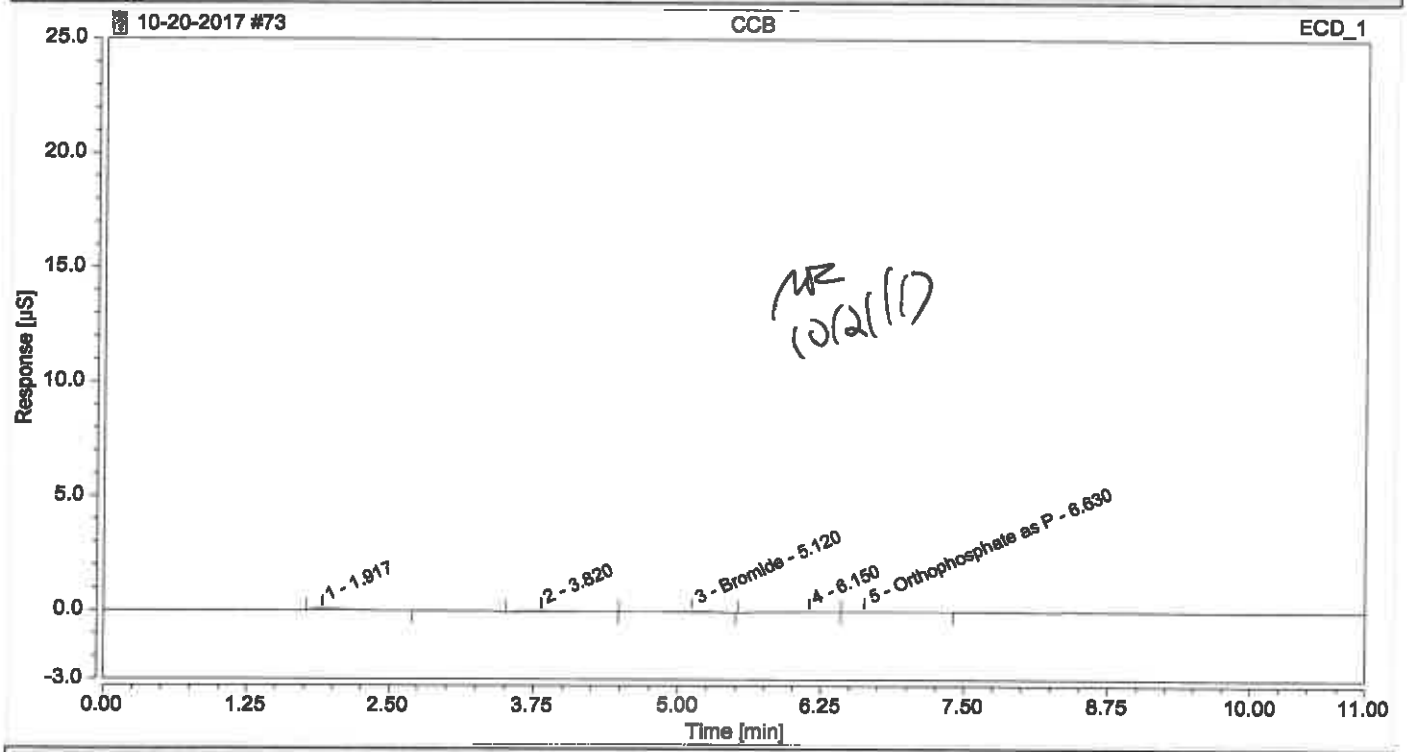
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.563	0.31606	1.088	7.57	5.90	0.6631
2	Chloride	3.507	0.41990	2.777	10.06	15.04	1.0015
3	Nitrite	4.047	0.92175	4.536	22.07	24.58	1.0220
4	Bromide	5.013	0.15556	0.890	3.73	4.82	1.0175
5	Nitrate	5.490	1.12594	5.017	26.96	27.18	1.0218
6	Orthophosphate as P	6.830	0.34736	1.237	8.32	6.70	1.0670
7	Sulfate	8.147	0.88911	2.913	21.29	15.78	2.6038
Total:			**4.176**	**18.458**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**21/Oct/17 03:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.917	0.02489	0.071	27.57	40.89	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.820	0.02422	0.041	26.83	23.33	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.120	0.02039	0.034	22.58	19.34	0.1562
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.150	0.01614	0.018	17.87	10.53	n.a.
5	Orthophosphate as P	6.630	0.00465	0.010	5.15	5.92	0.0553
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.090**	**0.175**	**100.00**	**100.00**	

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00013
ICV~500-406285/1		300		100 mL	100 mL		300 uL		100 uL
500-135273-M-3	W-171005-PS-22	300	T						
500-135273-M-3	W-171005-PS-22	300	T						
500-135273-M-3~MS		300	T	100 mL	100 mL				
CCV~500-406285/5		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-406285/6		300							
ICB~500-406285/7		300							
MB~500-406285/8		300							
LCS~500-406285/9		300		100 mL	100 mL		300 uL		100 uL
500-135383-H-1	Outfall 001 - Composite	300	T						
500-135383-H-1~MS		300	T	100 mL	100 mL				100 uL
500-135383-H-1~MSD		300	T	100 mL	100 mL				100 uL
500-135273-M-1	W-171005-PS-20	300	T						
500-135273-M-1	W-171005-PS-20	300	T						
500-135273-M-3~MSD		300	T	100 mL	100 mL		100 uL		
500-135273-M-3~MS		300	T	100 mL	100 mL		100 uL		
500-135273-M-3~MSD		300	T	100 mL	100 mL		100 uL		
500-135273-M-4	W-171005-PS-23	300	T						
500-135193-B-17	SCH-YMW009D-60001	300	T						
500-135193-B-17	SCH-YMW009D-60001	300	T						
500-135193-B-19	SCH-YMW003D-61001	300	T						
500-135193-B-19	SCH-YMW003D-61001	300	T						
500-135193-B-19	SCH-YMW003D-61001	300	T						
500-135965-B-1	Primary	300	T						
CCV~500-406285/25		300		100 mL	100 mL	100 uL		60 uL	

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
ICV~500-406285/1		300			200 uL		500 uL
500-135273-M-3	W-171005-PS-22	300	T				
500-135273-M-3	W-171005-PS-22	300	T				
500-135273-M-3~MS		300	T	100 uL			250 uL
CCV~500-406285/5		300		100 uL		250 uL	
CCB~500-406285/6		300					
ICB~500-406285/7		300					
MB~500-406285/8		300					
LCS~500-406285/9		300			200 uL		500 uL
500-135383-H-1	Outfall 001 - Composite	300	T				
500-135383-H-1~MS		300	T				
500-135383-H-1~MSD		300	T				
500-135273-M-1	W-171005-PS-20	300	T				
500-135273-M-1	W-171005-PS-20	300	T				
500-135273-M-3~MSD		300	T		100 uL		250 uL
500-135273-M-3~MS		300	T		100 uL		250 uL
500-135273-M-3~MSD		300	T		100 uL		250 uL
500-135273-M-4	W-171005-PS-23	300	T				
500-135193-B-17	SCH-YMW009D-60001	300	T				
500-135193-B-17	SCH-YMW009D-60001	300	T				
500-135193-B-19	SCH-YMW003D-61001	300	T				
500-135193-B-19	SCH-YMW003D-61001	300	T				
500-135193-B-19	SCH-YMW003D-61001	300	T				
500-135965-B-1	Primary	300	T				
CCV~500-406285/25		300		100 uL		250 uL	

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00013
CCB~500-406285/26		300							
500-135556-A-1	IBEC Discharge Water	300	T						
500-135573-B-4	Gypsum Comp	300	T						
500-135573-B-4	Gypsum Comp	300	T						
500-135573-B-5	Sump 8 Comp	300	T						
500-135573-B-5	Sump 8 Comp	300	T						
500-135573-B-6	FD-01-101217	300	T						
500-135573-B-6	FD-01-101217	300	T						
500-135250-A-41	HAW-1017-21	9056A	T						
500-135250-A-41	HAW-1017-21	9056A	T						
500-135250-A-43	HAW-1017-38	9056A	T						
CCV~500-406285/37		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-406285/38		300							
500-135250-A-43	HAW-1017-38	9056A	T						
500-135250-A-45	HAW-1017-38-D	9056A	T						
500-135250-A-45	HAW-1017-38-D	9056A	T						
500-135250-A-47	HAS-EB-100217-1	9056A	T						
500-135250-A-49	HAS-FB-100217-1	9056A	T						
500-135623-B-1	Hickory Creek C1	300	T						
500-135623-B-1	Hickory Creek C1	300	T						
500-135623-B-2	Hickory Creek C2	300	T						
500-135623-B-2	Hickory Creek C2	300	T						
500-135623-B-3	Hickory Creek C3	300	T						
CCV~500-406285/49		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-406285/50		9056A							

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
CCB~500-406285/26		300					
500-135556-A-1	IBEC Discharge Water	300	T				
500-135573-B-4	Gypsum Comp	300	T				
500-135573-B-4	Gypsum Comp	300	T				
500-135573-B-5	Sump 8 Comp	300	T				
500-135573-B-5	Sump 8 Comp	300	T				
500-135573-B-6	FD-01-101217	300	T				
500-135573-B-6	FD-01-101217	300	T				
500-135250-A-41	HAW-1017-21	9056A	T				
500-135250-A-41	HAW-1017-21	9056A	T				
500-135250-A-43	HAW-1017-38	9056A	T				
CCV~500-406285/37		300		100 uL		250 uL	
CCB~500-406285/38		300					
500-135250-A-43	HAW-1017-38	9056A	T				
500-135250-A-45	HAW-1017-38-D	9056A	T				
500-135250-A-45	HAW-1017-38-D	9056A	T				
500-135250-A-47	HAS-EB-100217-1	9056A	T				
500-135250-A-49	HAS-FB-100217-1	9056A	T				
500-135623-B-1	Hickory Creek C1	300	T				
500-135623-B-1	Hickory Creek C1	300	T				
500-135623-B-2	Hickory Creek C2	300	T				
500-135623-B-2	Hickory Creek C2	300	T				
500-135623-B-3	Hickory Creek C3	300	T				
CCV~500-406285/49		9056A		100 uL		250 uL	
CCB~500-406285/50		9056A					

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00013
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1~MS	OMW2D-GW-10/19/17	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T	100 mL	100 mL		100 uL		
CCV~500-406285/54		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-406285/55		9056A							
500-135623-B-3	Hickory Creek C3	300	T						
500-135628-B-1	T-9-C	300	T						
500-135628-B-1	T-9-C	300	T						
MB~500-406285/59		9056A							
LCS~500-406285/60		9056A		100 mL	100 mL		300 uL		
500-135999-L-47	MW-15SD	9056A	T						
500-135999-L-47	MW-15SD	9056A	T						
500-135999-L-48	MW-28	9056A	T						
500-135999-L-48	MW-28	9056A	T						
500-135999-L-49	MW-22SD	9056A	T						
CCV~500-406285/66		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-406285/67		300							
500-135999-L-49	MW-22SD	9056A	T						
500-135999-L-50	MW-30	9056A	T						
500-135999-L-50	MW-30	9056A	T						
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T						
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T						
500-136029-L-1~MS	OMW2D-GW-10/19/17	9056A	T	100 mL	100 mL		100 uL		

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T		100 uL		250 uL
500-136029-L-1~MS	OMW2D-GW-10/19/17	9056A	T		100 uL		250 uL
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T		100 uL		250 uL
CCV~500-406285/54		9056A		100 uL		250 uL	
CCB~500-406285/55		9056A					
500-135623-B-3	Hickory Creek C3	300	T				
500-135628-B-1	T-9-C	300	T				
500-135628-B-1	T-9-C	300	T				
MB~500-406285/59		9056A					
LCS~500-406285/60		9056A			200 uL		500 uL
500-135999-L-47	MW-15SD	9056A	T				
500-135999-L-47	MW-15SD	9056A	T				
500-135999-L-48	MW-28	9056A	T				
500-135999-L-48	MW-28	9056A	T				
500-135999-L-49	MW-22SD	9056A	T				
CCV~500-406285/66		300		100 uL		250 uL	
CCB~500-406285/67		300					
500-135999-L-49	MW-22SD	9056A	T				
500-135999-L-50	MW-30	9056A	T				
500-135999-L-50	MW-30	9056A	T				
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T				
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T				
500-136029-L-1~MS	OMW2D-GW-10/19/17	9056A	T		100 uL		250 uL

Filter ID: WHATMAN-9843107-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 ID: ELUENTCONC00023
Regeneration Solution ID: NA
Ethylenediamine ID: NA

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General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
ICV~500-406285/1		300			
500-135273-M-3	W-171005-PS-22	300	T		
500-135273-M-3	W-171005-PS-22	300	T		
500-135273-M-3~MS		300	T		
CCV~500-406285/5		300			
CCB~500-406285/6		300			
ICB~500-406285/7		300			
MB~500-406285/8		300			
LCS~500-406285/9		300			
500-135383-H-1	Outfall 001 - Composite	300	T		
500-135383-H-1~MS		300	T		
500-135383-H-1~MSD		300	T		
500-135273-M-1	W-171005-PS-20	300	T		
500-135273-M-1	W-171005-PS-20	300	T		
500-135273-M-3~MSD		300	T		
500-135273-M-3~MS		300	T		
500-135273-M-3~MSD		300	T		
500-135273-M-4	W-171005-PS-23	300	T		
500-135193-B-17	SCH-YMW009D-60001	300	T		
500-135193-B-17	SCH-YMW009D-60001	300	T		
500-135193-B-19	SCH-YMW003D-61001	300	T		
500-135193-B-19	SCH-YMW003D-61001	300	T		
500-135193-B-19	SCH-YMW003D-61001	300	T		
500-135965-B-1	Primary	300	T		
CCV~500-406285/25		300			

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCB~500-406285/26		300			
500-135556-A-1	IBEC Discharge Water	300	T		
500-135573-B-4	Gypsum Comp	300	T		
500-135573-B-4	Gypsum Comp	300	T		
500-135573-B-5	Sump 8 Comp	300	T		
500-135573-B-5	Sump 8 Comp	300	T		
500-135573-B-6	FD-01-101217	300	T		
500-135573-B-6	FD-01-101217	300	T		
500-135250-A-41	HAW-1017-21	9056A	T		
500-135250-A-41	HAW-1017-21	9056A	T		
500-135250-A-43	HAW-1017-38	9056A	T		
CCV~500-406285/37		300			
CCB~500-406285/38		300			
500-135250-A-43	HAW-1017-38	9056A	T		
500-135250-A-45	HAW-1017-38-D	9056A	T		
500-135250-A-45	HAW-1017-38-D	9056A	T		
500-135250-A-47	HAS-EB-100217-1	9056A	T		
500-135250-A-49	HAS-FB-100217-1	9056A	T		
500-135623-B-1	Hickory Creek C1	300	T		
500-135623-B-1	Hickory Creek C1	300	T		
500-135623-B-2	Hickory Creek C2	300	T		
500-135623-B-2	Hickory Creek C2	300	T		
500-135623-B-3	Hickory Creek C3	300	T		
CCV~500-406285/49		9056A			
CCB~500-406285/50		9056A			

General Chemistry Worksheet

Batch Number: 500-406285
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Oct 20 2017 10:33AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T		
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T		
500-136029-L-1~MSD	OMW2D-GW-10/19/17	9056A	T		
CCV~500-406285/54		9056A			
CCB~500-406285/55		9056A			
500-135623-B-3	Hickory Creek C3	300	T		
500-135628-B-1	T-9-C	300	T		
500-135628-B-1	T-9-C	300	T		
MB~500-406285/59		9056A			
LCS~500-406285/60		9056A			
500-135999-L-47	MW-15SD	9056A	T		
500-135999-L-47	MW-15SD	9056A	T		
500-135999-L-48	MW-28	9056A	T		
500-135999-L-48	MW-28	9056A	T		
500-135999-L-49	MW-22SD	9056A	T		
CCV~500-406285/66		300			
CCB~500-406285/67		300			
500-135999-L-49	MW-22SD	9056A	T		
500-135999-L-50	MW-30	9056A	T		
500-135999-L-50	MW-30	9056A	T		
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T		
500-136029-L-1	OMW2D-GW-10/19/17	9056A	T		
500-136029-L-1~MS	OMW2D-GW-10/19/17	9056A	T		

Batch Comment: AG14A-5UM/AS14A-5UM

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TestAmerica Chicago

Total Organic/Inorganic Carbon

Method:

SM5310C-00 ✓
SW846 9060 ✓ 9060A ✓

Analytical Batch #: 406794
Analytical Batch #:
Prep Batch #:
NCM #:

Instrument: Fusion – TOC5 ___
Phoenix – TOC3 ✓

Calibration Range: 1.0 – 40.0 mg/L
Reporting Limit: 1.0 mg/L

Standard Curve: Date of Curve 10/9/17

Calculations:
Water: mg/L = mg/L X dilution

Standards Traceability:
Stock I: Calibration and Curve; CCV: HLCS — WCSTIC1_00122
Stock II: LCS, ICV, Matrix spikes MRL — WCSTIC2_00132
Stock II: TIC sparger check — WSTIC2_00087

Spiking Levels:

		ICAL Standards mg/L	Stock I Spike Amount uL	DI Amount mL
LCS	10 mg/L	0	0	200
ICV	20 mg/L	1.0	100	200
CCV	10 mg/L	5.0	500	200
		10	1000	200
MS/MSD	10 mg/L	15	1500	Dilute to 200 mL
TIC check	10 mg/L	20	2000	"
MRL	1.0 mg/L	30	3000	"
HLCS	30 mg/L	40	4000	"

Comments:

Analyst: Heather M. Worta — Date of analysis: 10/23/17
Reviewer: John Monach — Date: 10/25/17

CHI-22-12-105/J-03/15

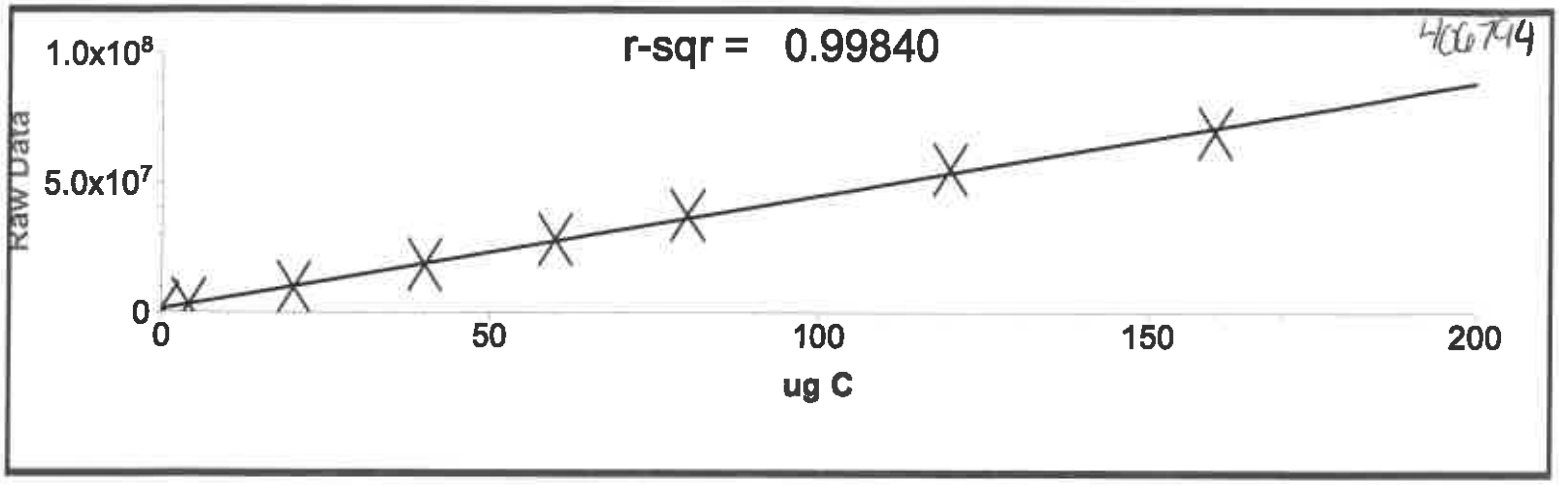
(016-001)

406794

Calibration Report Print Date/Time: 2017/10/24 15:57:33

Cal. Curve ID: TOCCURVE
Created: 10/09/2017 02:06
Calibration Factor (m): 4.363e+05
Y Intercept (b): 1303840
r-squared: 0.99840

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0	1339675	0.000	0.082		10/09/2017 00:21
1	2837321	4.000	3.515		10/09/2017 00:30
5	9425100	20.000	18.613		10/09/2017 00:38
10	18063794	40.000	38.413		10/09/2017 00:48
15	27991500	60.000	61.167	Max Integrati	10/09/2017 00:58
20	37275764	80.000	82.446	Max Integrati	10/09/2017 01:08
30	55132044	120.000	123.371	Over-range	10/09/2017 01:18
40	69540120	160.000	156.394	Over-range	10/09/2017 02:05


r-sqr = 0.99840
1.0x10^8
5.0x10^7
0
Raw Data
0
50
100
150
200
ug C

406794

Multiple Analysis Report Print Date/Time: 2017/10/24 15:57:24

Sample ID	Result	Std. Dev.	RSD	Mode	ALT	Method ID	Sample Type	Vial	Timestamp	Message
TIC-STD	0.1077			TOC		TOC Range 0.1 - 20 p	Sample	2	10/23/2017 23:54	
ICV	20.5192			TOC		TOC Range 0.1 - 20 p	Sample	3	10/24/2017 00:04	Max Integration
→ Time Reached										
ICB	0.0978			TOC		TOC Range 0.1 - 20 p	Sample	4	10/24/2017 00:13	
MB.....	0.0459...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 5..	10/24/2017 00:21.	
MB	0.0442			TOC		TOC Range 0.1 - 20 p	Sample	5	10/24/2017 00:29	
LCS	9.6399			TOC		TOC Range 0.1 - 20 p	Sample	6	10/24/2017 00:39	
LCS.....	9.6199...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 6..	10/24/2017 00:48.	
500-135665-g-1	1.3598			TOC		TOC Range 0.1 - 20 p	Sample	7	10/24/2017 00:57	
500-135665-g-1	1.3798			TOC		TOC Range 0.1 - 20 p	Sample	7	10/24/2017 01:06	
500-135665-g-2.....	0.6670...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 8..	10/24/2017 01:15.	
500-135665-g-2	0.6473			TOC		TOC Range 0.1 - 20 p	Sample	8	10/24/2017 01:23	
500-135665-g-3	0.8431			TOC		TOC Range 0.1 - 20 p	Sample	9	10/24/2017 01:32	
500-135665-g-3.....	0.8345...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 9..	10/24/2017 01:40.	
500-135665-g-3 MS	10.4164			TOC		TOC Range 0.1 - 20 p	Sample	10	10/24/2017 01:50	
500-135665-g-3 MSD	10.4844			TOC		TOC Range 0.1 - 20 p	Sample	10	10/24/2017 01:59	
500-135665-g-4.....	0.8240...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 11..	10/24/2017 02:08.	
500-135665-g-4	0.7874			TOC		TOC Range 0.1 - 20 p	Sample	11	10/24/2017 02:16	
500-135687-d-5	7.0748			TOC		TOC Range 0.1 - 20 p	Sample	12	10/24/2017 02:27	Max Integration
→ Time Reached										
500-135687-d-5.....	7.0568...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 12..	10/24/2017 02:37.	Max Integration
→ Time Reached										
500-135687-d-6	8.4120			TOC		TOC Range 0.1 - 20 p	Sample	13	10/24/2017 02:47	Max Integration →
→ Time Reached										
500-135687-d-6	8.5041			TOC		TOC Range 0.1 - 20 p	Sample	13	10/24/2017 02:57	Max Integration →
→ Time Reached										
CCV.....	9.7950...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 14..	10/24/2017 03:07.	
CCB	0.0473			TOC		TOC Range 0.1 - 20 p	Sample	15	10/24/2017 03:15	
500-135687-d-7	7.9204			TOC		TOC Range 0.1 - 20 p	Sample	16	10/24/2017 03:25	Max Integration →
→ Time Reached										
500-135687-d-7.....	8.1438...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 16..	10/24/2017 03:35.	Max Integration →
→ Time Reached										
500-135687-d-8	8.5841			TOC		TOC Range 0.1 - 20 p	Sample	17	10/24/2017 03:46	Max Integration →
→ Time Reached										
500-135687-d-8	8.4939			TOC		TOC Range 0.1 - 20 p	Sample	17	10/24/2017 03:56	Max Integration
→ Time Reached										
500-135687-d-10.....	8.1390...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 18..	10/24/2017 04:06.	Max Integration →
→ Time Reached										
500-135687-d-10	8.0203			TOC		TOC Range 0.1 - 20 p	Sample	18	10/24/2017 04:16	Max Integration →
→ Time Reached										
500-135999-k-47	1.2298			TOC		TOC Range 0.1 - 20 p	Sample	19	10/24/2017 04:25	
500-135999-k-47.....	1.1276...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 19..	10/24/2017 04:34.	
500-135999-j-48	1.9415			TOC		TOC Range 0.1 - 20 p	Sample	20	10/24/2017 04:43	
500-135999-j-48	1.8938			TOC		TOC Range 0.1 - 20 p	Sample	20	10/24/2017 04:52	
500-135999-j-49.....	1.9864...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 21..	10/24/2017 05:01.	
500-135999-j-49	1.9735			TOC		TOC Range 0.1 - 20 p	Sample	21	10/24/2017 05:10	
500-135999-j-50	1.8663			TOC		TOC Range 0.1 - 20 p	Sample	22	10/24/2017 05:19	
500-135999-j-50.....	1.8630...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 22..	10/24/2017 05:28.	
500-136029-j-1	1.9185			TOC		TOC Range 0.1 - 20 p	Sample	23	10/24/2017 05:38	
500-136029-j-1	1.9034			TOC		TOC Range 0.1 - 20 p	Sample	23	10/24/2017 05:48	
500-136029-j-1 MS.....	11.2596...	..	...	TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 24..	10/24/2017 05:59.	Max Integration →
→ Time Reached										

500-136029-j-1 MSD	11.2650			TOC	TOC Range 0.1 - 20 p	Sample	24	10/24/2017 06:09	Max Integration	
→ Time Reached										
CCV	9.5438			TOC	TOC Range 0.1 - 20 p	Sample	25	10/24/2017 06:18		
CCB.....	-0.0021...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 26..	10/24/2017 06:27.		
500-135706-m-1	6.4941			TOC	TOC Range 0.1 - 20 p	Sample	27	10/24/2017 06:37	Max Integration	→
→ Time Reached										
500-135706-m-1	6.6468			TOC	TOC Range 0.1 - 20 p	Sample	27	10/24/2017 06:47	Max Integration	→
→ Time Reached										
500-135706-m-2.....	2.2482...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 28..	10/24/2017 06:57.	Max Integration	→
→ Time Reached										
500-135706-m-2	2.1474			TOC	TOC Range 0.1 - 20 p	Sample	28	10/24/2017 07:07	Max Integration	→
→ Time Reached										
MB	0.1382			TOC	TOC Range 0.1 - 20 p	Sample	29	10/24/2017 07:16		
MB.....	0.0567...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 29..	10/24/2017 07:24.		
LCS	9.7326			TOC	TOC Range 0.1 - 20 p	Sample	30	10/24/2017 07:34		
LCS	9.7257			TOC	TOC Range 0.1 - 20 p	Sample	30	10/24/2017 07:44		
500-135746-a-8.....	9.4833...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 31..	10/24/2017 07:54.	Max Integration	→
→ Time Reached										
500-135746-a-8	9.5477			TOC	TOC Range 0.1 - 20 p	Sample	31	10/24/2017 08:04	Max Integration	→
→ Time Reached										
500-135746-a-9	0.5149			TOC	TOC Range 0.1 - 20 p	Sample	32	10/24/2017 08:13		
500-135746-a-9.....	0.3372...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 32..	10/24/2017 08:21.		
500-135746-a-13	0.2971			TOC	TOC Range 0.1 - 20 p	Sample	33	10/24/2017 08:30		
500-135746-a-13	0.2779			TOC	TOC Range 0.1 - 20 p	Sample	33	10/24/2017 08:38		
500-135746-a-14.....	0.3776...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 34..	10/24/2017 08:47.		
500-135746-a-14	0.3679			TOC	TOC Range 0.1 - 20 p	Sample	34	10/24/2017 08:55		
500-135746-a-15	0.6272			TOC	TOC Range 0.1 - 20 p	Sample	35	10/24/2017 09:04		
500-135746-a-15.....	0.6359...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 35..	10/24/2017 09:13.		
500-135746-a-22	6.2557			TOC	TOC Range 0.1 - 20 p	Sample	36	10/24/2017 09:23	Max Integration	→
→ Time Reached										
500-135746-a-22	6.2779			TOC	TOC Range 0.1 - 20 p	Sample	36	10/24/2017 09:33	Max Integration	→
→ Time Reached										
CCV.....	9.6583...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 37..	10/24/2017 09:43.		
CCB	0.0088			TOC	TOC Range 0.1 - 20 p	Sample	38	10/24/2017 09:51		
500-135746-b-34	0.2996			TOC	TOC Range 0.1 - 20 p	Sample	39	10/24/2017 09:59		
500-135746-b-34.....	0.2935...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 39..	10/24/2017 10:08.		
500-135746-b-34 MS	9.8726			TOC	TOC Range 0.1 - 20 p	Sample	40	10/24/2017 10:17		
500-135746-b-34 MSD	9.8512			TOC	TOC Range 0.1 - 20 p	Sample	40	10/24/2017 10:27		
500-135746-b-35.....	5.6985...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 41..	10/24/2017 10:36.		
500-135746-b-35	5.8028			TOC	TOC Range 0.1 - 20 p	Sample	41	10/24/2017 10:46		
500-135746-a-36	5.6996			TOC	TOC Range 0.1 - 20 p	Sample	42	10/24/2017 10:55		
500-135746-a-36.....	5.7090...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 42..	10/24/2017 11:05.		
CCV	9.8540			TOC	TOC Range 0.1 - 20 p	Sample	43	10/24/2017 11:15		
CCB	0.0757			TOC	TOC Range 0.1 - 20 p	Sample	44	10/24/2017 11:23		

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Detailed Analysis Report Print Date/Time: 2017/10/24 15:57:10

Sample ID: TIC-STD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/23/2017 23:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1077	0.4309	1472151	29.786	30.782	114

Sample ID: ICV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.5192	82.0768	37095184	28.425	29.831	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0978	0.3910	1454769	28.462	29.454	125

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0459	0.1835	1364237	28.070	29.068	128

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0442	0.1770	1361376	27.929	28.926	129

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.6399	38.5597	18108196	27.856	28.855	196

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

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1	9.6199	38.4797	18073260	27.891	28.889	203

Sample ID: 500-135665-g-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 00:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3598	5.4393	3657379	27.849	28.848	164

Sample ID: 500-135665-g-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3798	5.5193	3692284	27.911	28.911	165

Sample ID: 500-135665-g-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6670	2.6680	2448233	27.847	28.846	138

Sample ID: 500-135665-g-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6473	2.5892	2413846	27.734	28.733	140

Sample ID: 500-135665-g-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8431	3.3726	2755639	27.662	28.658	150

Sample ID: 500-135665-g-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8345	3.3381	2740585	27.683	28.680	145

Sample ID: 500-135665-g-3 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4164	41.6657	19463384	27.613	28.608	202

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Sample ID: 500-135665-g-3 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 01:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4844	41.9376	19581980	27.755	28.753	198

Sample ID: 500-135665-g-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8240	3.2961	2722266	27.719	28.717	145

Sample ID: 500-135665-g-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7874	3.1497	2658400	27.573	28.572	146

Sample ID: 500-135687-d-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.0748	28.2992	13631428	27.580	37.856	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.0568	28.2271	13599936	27.708	38.392	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.4120	33.6482	15965234	27.686	35.232	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 02:57

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Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.5041	34.0163	16125859	27.873	35.338	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7950	39.1802	18378904	27.777	28.775	203

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0473	0.1891	1366655	27.562	28.561	131

Sample ID: 500-135687-d-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.9204	31.6816	15107170	27.382	41.644	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.1438	32.5752	15497094	27.848	43.614	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.5841	34.3365	16265566	27.986	38.521	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 03:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

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1	8.4939	33.9756	16108100	27.901	38.185	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.1390	32.5560	15488692	27.791	33.639	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135687-d-10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.0203	32.0811	15281494	27.692	33.140	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135999-k-47
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.2298	4.9191	3430395	27.689	28.688	159

Sample ID: 500-135999-k-47
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1276	4.5104	3252081	27.504	28.502	153

Sample ID: 500-135999-j-48
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9415	7.7661	4672584	27.430	28.429	193

Sample ID: 500-135999-j-48
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 04:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8938	7.5754	4589384	27.417	28.415	186

Sample ID: 500-135999-j-49
Method: TOC Range 0.1 - 20 ppm C
Mode: TOC
Filename: 10232336

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Cal. Curve: TOCCURVE
Operator ID: HEATHER
Timestamp: 10/24/2017 05:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9864	7.9455	4750845	27.360	28.359	173

Sample ID: 500-135999-j-49
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9735	7.8939	4728361	27.359	28.358	171

Sample ID: 500-135999-j-50
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:19
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8663	7.4654	4541389	27.333	28.330	167

Sample ID: 500-135999-j-50
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8630	7.4522	4535626	27.345	28.343	167

Sample ID: 500-136029-j-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9185	7.6739	4632342	27.317	28.317	237

Sample ID: 500-136029-j-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9034	7.6136	4606061	27.377	28.372	238

Sample ID: 500-136029-j-1 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 05:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.2596	45.0382	20934828	27.492	29.501	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-136029-j-1 MSD
Mode: TOC

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Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Filename: 10232336
Timestamp: 10/24/2017 06:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.2650	45.0602	20944400	27.495	29.510	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 06:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.5438	38.1754	17940494	27.475	28.473	199

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 06:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0021	-0.0083	1280533	27.409	28.401	127

Sample ID: 500-135706-m-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 06:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.4941	25.9765	12618009	27.233	30.105	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135706-m-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 06:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.6468	26.5874	12884526	27.580	30.031	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135706-m-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 06:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2482	8.9929	5207874	27.569	29.980	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135706-m-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:07
Sample Type: Sample

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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1474	8.5895	5031843	27.428	29.565	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1382	0.5529	1525390	27.429	28.425	134

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0567	0.2267	1383087	27.361	28.357	135

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7326	38.9303	18269880	27.317	28.316	220

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7257	38.9029	18257908	27.380	28.379	207

Sample ID: 500-135746-a-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 07:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4833	37.9334	17834904	27.407	29.011	240

Last Message: Max Integration Time Reached

Sample ID: 500-135746-a-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.5477	38.1906	17947156	27.539	29.116	240

Last Message: Max Integration Time Reached

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Sample ID: 500-135746-a-9
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5149	2.0597	2182823	27.602	28.599	150

Sample ID: 500-135746-a-9
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3372	1.3490	1872725	27.353	28.351	150

Sample ID: 500-135746-a-13
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2971	1.1885	1802716	27.341	28.338	130

Sample ID: 500-135746-a-13
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2779	1.1115	1769102	27.345	28.342	129

Sample ID: 500-135746-a-14
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3776	1.5103	1943110	27.333	28.332	158

Sample ID: 500-135746-a-14
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 08:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3679	1.4714	1926160	27.433	28.432	154

Sample ID: 500-135746-a-15
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6272	2.5089	2378815	27.369	28.364	160

Sample ID: 500-135746-a-15
Mode: TOC

406794

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Filename: 10232336
Timestamp: 10/24/2017 09:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6359	2.5435	2393914	27.417	28.410	158

Sample ID: 500-135746-a-22
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.2557	25.0226	12201794	27.456	30.233	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: 500-135746-a-22
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.2779	25.1114	12240557	27.577	30.419	240

Last Message: Max Integration Time Reached AD HW 10/24/17

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.6583	38.6331	18140208	27.631	28.631	199

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0088	0.0352	1299526	27.592	28.587	128

Sample ID: 500-135746-b-34
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 09:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2996	1.1984	1807049	27.463	28.460	129

Sample ID: 500-135746-b-34
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2935	1.1738	1796318	27.493	28.492	128

406794

Sample ID: 500-135746-b-34 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8726	39.4904	18514268	27.510	28.506	208

Sample ID: 500-135746-b-34 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8512	39.4049	18476932	27.641	28.641	196

Sample ID: 500-135746-b-35
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6985	22.7940	11229439	27.640	28.637	200

Sample ID: 500-135746-b-35
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8028	23.2113	11411523	27.623	28.620	207

Sample ID: 500-135746-a-36
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 10:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6996	22.7986	11231429	27.659	28.659	198

Sample ID: 500-135746-a-36
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 11:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7090	22.8360	11247774	27.649	28.649	208

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 11:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8540	39.4162	18481874	27.650	28.649	221

406794

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10232336
Timestamp: 10/24/2017 11:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0757	0.3026	1416196	27.692	28.689	132

General Chemistry Worksheet

Batch Number: 500-406794
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 23 2017 11:54PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	RPD from Results 1 and 2	Did RPD Pass?	WCSTTC1_00122	WCSTTC2_00132
TIC-STD						0 %	TOC Pass		
ICV~500-406794/2		9060A		200 mL	200 mL	0 %	TOC Pass		2000 uL
ICB~500-406794/3		9060A				0 %	TOC Pass		
MB~500-406794/4		9060A				4 %	TOC Pass		
LCS~500-406794/5		9060A		200 mL	200 mL	0 %	TOC Pass		1000 uL
500-135665-G-1	W-171013-PS-24	9060A	T			1 %	TOC Pass		
500-135665-G-2	W-171013-PS-25	9060A	T			3 %	TOC Pass		
500-135665-G-3	W-171013-PS-26	9060A	T			1 %	TOC Pass		
500-135665-G-3~MS	W-171013-PS-26	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-135665-G-3~MSD	W-171013-PS-26	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-135665-G-4	W-171013-PS-27	9060A	T			5 %	TOC Pass		
500-135687-D-5	APZ-54	9060	T			0 %	TOC Pass		
500-135687-D-6	APZ-81	9060	T			1 %	TOC Pass		
CCV~500-406794/14		9060		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-406794/15		9060				0 %	TOC Pass		
500-135687-D-7	APZ-82	9060	T			3 %	TOC Pass		
500-135687-D-8	APZ-97	9060	T			1 %	TOC Pass		
500-135687-D-10	IW-52	9060	T			1 %	TOC Pass		
500-135999-K-47	MW-15SD	9060A	T			9 %	TOC Pass		
500-135999-J-48	MW-28	9060A	T			2 %	TOC Pass		
500-135999-J-49	MW-22SD	9060A	T			1 %	TOC Pass		
500-135999-J-50	MW-30	9060A	T			0 %	TOC Pass		
500-136029-J-1	OMW2D-GW-10/19/17	9060A	T			1 %	TOC Pass		
500-136029-J-1~MS	OMW2D-GW-10/19/17	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-136029-J-1~MSD	OMW2D-GW-10/19/17	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL

General Chemistry Worksheet

Batch Number: 500-406794
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 23 2017 11:54PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	RPD from Results 1 and 2	Did RPD Pass?	WCSTTC1_00122	WCSTTC2_00132
CCV~500-406794/26		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-406794/27		9060A				0 %	TOC Pass		
500-135706-M-1	Reservoir	5310C	T			2 %	TOC Pass		
500-135706-M-2	Sump	5310C	T			5 %	TOC Pass		
MB~500-406794/30		9060A				84 %	TOC Fail		
LCS~500-406794/31		9060A		200 mL	200 mL	0 %	TOC Pass		1000 uL
500-135746-A-8	MW-14(s)	9060A	T			1 %	TOC Pass		
500-135746-A-9	CMS-EB-101417	9060A	T			42 %	TOC Fail		
500-135746-A-13	MW-36(s)	9060A	T			7 %	TOC Pass		
500-135746-A-14	DW-6(d1)	9060A	T			3 %	TOC Pass		
500-135746-A-15	DW-2(d1)	9060A	T			1 %	TOC Pass		
500-135746-A-22	EW-511	9060A	T			0 %	TOC Pass		
CCV~500-406794/38		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-406794/39		9060A				0 %	TOC Pass		
500-135746-B-34	DW-10(d1)	9060A	T			2 %	TOC Pass		
500-135746-B-34~MS	DW-10(d1)	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-135746-B-34~MSD	DW-10(d1)	9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-135746-B-35	MW-13(s)	9060A	T			2 %	TOC Pass		
500-135746-A-36	MW-13(s)Dup	9060A	T			0 %	TOC Pass		
CCV~500-406794/45		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-406794/46		9060A				0 %	TOC Pass		

First Start time: See Start Date/Time
First End time: See End Date/Time
Phosphoric Acid ID: 21% H3PO4_00059
Sodium Persulfate ID: Na_Persulfate_00096
Pipette ID: NA

General Chemistry Worksheet

Batch Number: 500-406794
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 23 2017 11:54PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
TIC-STD					
ICV~500-406794/2		9060A			
ICB~500-406794/3		9060A			
MB~500-406794/4		9060A			
LCS~500-406794/5		9060A			
500-135665-G-1	W-171013-PS-24	9060A	T		
500-135665-G-2	W-171013-PS-25	9060A	T		
500-135665-G-3	W-171013-PS-26	9060A	T		
500-135665-G-3~MS	W-171013-PS-26	9060A	T		
500-135665-G-3~MSD	W-171013-PS-26	9060A	T		
500-135665-G-4	W-171013-PS-27	9060A	T		
500-135687-D-5	APZ-54	9060	T		
500-135687-D-6	APZ-81	9060	T		
CCV~500-406794/14		9060			
CCB~500-406794/15		9060			
500-135687-D-7	APZ-82	9060	T		
500-135687-D-8	APZ-97	9060	T		
500-135687-D-10	IW-52	9060	T		
500-135999-K-47	MW-15SD	9060A	T		
500-135999-J-48	MW-28	9060A	T		
500-135999-J-49	MW-22SD	9060A	T		
500-135999-J-50	MW-30	9060A	T		
500-136029-J-1	OMW2D-GW-10/19/17	9060A	T		
500-136029-J-1~MS	OMW2D-GW-10/19/17	9060A	T		
500-136029-J-1~MSD	OMW2D-GW-10/19/17	9060A	T		

General Chemistry Worksheet

Batch Number: 500-406794
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 23 2017 11:54PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCV~500-406794/26		9060A			
CCB~500-406794/27		9060A			
500-135706-M-1	Reservoir	5310C	T		
500-135706-M-2	Sump	5310C	T		
MB~500-406794/30		9060A			
LCS~500-406794/31		9060A			
500-135746-A-8	MW-14(s)	9060A	T		
500-135746-A-9	CMS-EB-101417	9060A	T		
500-135746-A-13	MW-36(s)	9060A	T		
500-135746-A-14	DW-6(d1)	9060A	T		
500-135746-A-15	DW-2(d1)	9060A	T		
500-135746-A-22	EW-511	9060A	T		
CCV~500-406794/38		9060A			
CCB~500-406794/39		9060A			
500-135746-B-34	DW-10(d1)	9060A	T		
500-135746-B-34~MS	DW-10(d1)	9060A	T		
500-135746-B-34~MSD	DW-10(d1)	9060A	T		
500-135746-B-35	MW-13(s)	9060A	T		
500-135746-A-36	MW-13(s)Dup	9060A	T		
CCV~500-406794/45		9060A			
CCB~500-406794/46		9060A			

Batch Comment: NA

Book# 5067

TestAmerica Chicago
Sulfide / Reactive Sulfide

Page #: 0297

Method:
SM4500S2-F-00 ✓ SW-846 9034 ✓
SW-846 9030B/9034 ____ SW-846 7.3.4.2/9034 ____

NCM #: ____
Analytical Batch #: 407023
Prep Batch #: 407022

Normality of I_2:
Trial 1 = 5.03 mLs
Trial 2 = 5.00 mLs
Trial 3 = 5.04 mLs
Avg. = 5.02 mLs

Titration Dispener ID: C-3030

(5.02 avg. X N $Na_2S_2O_3$) / 5 = 0.0253 N I_2

N of $Na_2S_2O_3$ = 0.0252
N Check: Date: 10/20/17 Book No.: 5067 Page No.: 289

Result (mg/L or mg/kg) = (mLs I)(N I_2) - (mLs $Na_2S_2O_3$) (N $Na_2S_2O_3$) x 16,000 / Sample Size (mLs or grams)

Sample #	mL Sample Size	mLs I_2	mLs $Na_2S_2O_3$	% Rec. (RPD)	Comments
MB	250	5	4.99		
LCS			2.98	100%	
500-135952-1		30	5.92		
-3		5	3.34		
-5	100	30	0.87		
-7	250	5	5.31		
500-135995-5			5.74		
500-135999-47			5.20		
-48			5.53		
-49			5.21		
-50			5.26		
500-136029-1			5.15		
-1 MS			3.48	76%	
-1 MSD			3.33	83%	9 RPD
500-136132-1			5.31		
-2			5.08		
500-136248-1			1.97		
-2			2.60		
500-136220-1			5.45		
-2			5.51		
-3			5.48		
500-136233-1		25	5.51		

CB 10/26/17

Comments:

Standards Traceability

Stock Soln. I ID # (LCS/MS): WSTSFI-00070 Standardization: Book 5067 Page 282
Note: Working standards are prepared daily from noted Stock Solution.
Spiking Levels (mg/L): LCS: 3.277 MS (Water): 3.277 MS (Soil): ____

Preparation (Circle): a. Filtered b. Bubbled ~~c. Bubbled with Heat~~

Prep Analyst: ____ Date/Time: ____
Analyst: Cheryl L Boyd Date/Time: 10/26/17 08:14-09:16
Reviewer: John Kmal Date: 10/26/17

CHI-22-045/I-05/14

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Sulfide, Separation of Soluble and Insoluble

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB-500-407022/1 N/A	N/A		250 mL	250 mL	N/A	N/A	N/A		MB 500-407022/1-A
2	LCS-500-407022/2 N/A	N/A		250 mL	250 mL	N/A	N/A	N/A		LCS 500-407022/2-A
3	500-135952-V-1 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-1-A
4	500-135952-V-3 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-3-A
5	500-135952-V-5 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-5-A
6	500-135952-V-7 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-7-A

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Batch Notes

Aluminum Chloride ID

Zinc Acetate Buffer ID

Sodium Hydroxide ID

Batch Comment

Comments

Login Comments for Job 135952: Form 8 required for all report levels.
Internal COC
BP LaMP protocols

Case narrative is required for MS/MSD failures.

500-135952-V-1

Method Comments: Special prep needed - see Carla

500-135952-V-3

Method Comments: Special prep needed - see Carla

500-135952-V-5

Method Comments: Special prep needed - see Carla

500-135952-V-7

Method Comments: Special prep needed - see Carla

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Other Reagents:

Reagent	Amount/Units	Lot#:

General Chemistry Worksheet

Batch Number: 500-407023
Method: SM 4500 S2 F
Analyst: Boyd, Cheryl L

Date Open: Oct 26 2017 8:14AM
Batch End: Oct 26 2017 9:16AM

Lab ID	Client ID	Method Chain	Basis	Amount of Iodine	Volume of Titrant One Added	Initial weight/volume of sample	Final weight/volume of sample	Calculation Message	WSTSF1_00070
MB~500-407023/1		9034_Calc		5 mL	4.99 mL	250 mL	250 mL	OK	
LCS~500-407023/2		9034_Calc		5 mL	2.98 mL	250 mL	250 mL	OK	5 mL
500-135952-V-1-A		SM4500_S2_F	D	30 mL	5.92 mL	250 mL	250 mL	OK	
500-135952-V-3-A		SM4500_S2_F	D	5 mL	3.34 mL	250 mL	250 mL	OK	
500-135952-V-5-A		SM4500_S2_F	D	30 mL	0.87 mL	100 mL	250 mL	OK	
500-135952-V-7-A		SM4500_S2_F	D	5 mL	5.31 mL	250 mL	250 mL	OK	
500-135995-M-5	MW-406 20171019	9034_Calc	T	5 mL	5.74 mL	250 mL	250 mL	OK	
500-135999-O-47	MW-15SD	9034_Calc	T	5 mL	5.20 mL	250 mL	250 mL	OK	
500-135999-O-48	MW-28	9034_Calc	T	5 mL	5.53 mL	250 mL	250 mL	OK	
500-135999-O-49	MW-22SD	9034_Calc	T	5 mL	5.21 mL	250 mL	250 mL	OK	
500-135999-O-50	MW-30	9034_Calc	T	5 mL	5.26 mL	250 mL	250 mL	OK	
500-136029-M-1	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	5.15 mL	250 mL	250 mL	OK	
500-136029-M-1~M	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	3.48 mL	250 mL	250 mL	OK	5 mL
500-136029-M-1~M	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	3.33 mL	250 mL	250 mL	OK	5 mL
500-136132-M-1	OMW1D-GW-102317	SM4500_S2_F	T	5 mL	5.31 mL	250 mL	250 mL	OK	
500-136132-M-2	EIP-DUP-102317	SM4500_S2_F	T	5 mL	5.08 mL	250 mL	250 mL	OK	
500-136248-H-1	NW255277	SM4500_S2_F	T	5 mL	1.97 mL	250 mL	250 mL	OK	
500-136248-G-2	NW255278	SM4500_S2_F	T	5 mL	2.60 mL	250 mL	250 mL	OK	
500-136220-M-1	MW-108 20171024	9034_Calc	T	5 mL	5.45 mL	250 mL	250 mL	OK	
500-136220-M-2	MW-G 20171024	9034_Calc	T	5 mL	5.51 mL	250 mL	250 mL	OK	
500-136220-O-3	MW-C 20171024	9034_Calc	T	5 mL	5.48 mL	250 mL	250 mL	OK	
500-136233-J-1	LS-1	SM4500_S2_F	T	25 mL	5.51 mL	250 mL	250 mL	OK	

Normality of First Titrant:	0.0252 N	Zinc Acetate Buffer ID:	N/A
Normality of Iodine Solution:	0.0253 N	Hydrochloric Acid ID:	6NHCL00032
First Start time:	08:14	Sodium Hydroxide ID:	N/A
First End time:	09:16	Starch Lot Number:	STARCHIND00020
Nominal Amount Used:	250 mL	Filter ID:	WHATMANGLASSFIBERFILTER
Perform Calculation (0=No, 1=Yes):	1	Zinc Acetate Dispenser ID:	N/A
Sodium Thiosulfate Vendor:	JTBAKER	DI Water Dispenser ID:	N/A
Sodium Thiosulfate ID:	0.025NA2S2O300040	Sulfuric Acid Dispenser ID:	N/A
Sulfuric Acid Reagent ID Number:	N/A	Iodine Dispenser ID:	N/A
Iodine Vendor:	EMD	Sodium Thiosulfate Dispenser ID:	C-3030
Iodine Lot Number:	0.25NIODINE00050		
Pipette ID:	N/A		

TestAmerica Chicago

CHI-22-12-084/Y-09/15

Cover Page - Ion Chromatograph

LIMS Batch: 408255 **FILE ID:** 11-02-2017 .csv

Calibration Date: 10/26/17

Instrument: (Circle)	
a. IC5: Dionex Series ICS-1100	SevenAnions
(b.) IC8: Dionex Series ICS-1100	SevenAnions

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV Stock ID	LCS / MS ICV Stock ID	LCS mg/L	ICV / CCV mg/L	MS mg/L
Fluoride	WSTICF1-00010	WSTICF2-00015	1.0	1.0 / 0.6	0.6
Chloride	WSTICCL1-00017	WSTICCL2-00016	3.0	3.0 / 1.0	1.0
Nitrite-N	WSTICNI1-00010	WSTICNO2II-0003	2.0	2.0 / 1.0	1.0
Bromide	WSTICBR1-	WSTICBR2-	2.0	2.0 / 1.0	1.0
Nitrate-N	WSTICNO31-	WSTICNO32-	2.0	2.0 / 1.0	1.0
O-PO4	WSTICP1-	WSTICP2-	2.0	2.0 / 1.0	1.0
Sulfate	WSTICS1-00010	WSTICS2-00012	5.0	5.0 / 2.5	2.5

Test	Range of Curve (mg/L)
Fluoride	0.20 - 2.0
Chloride	0.20 - 7.5
Nitrite-N	0.20 - 5.0
Bromide	0.20 - 5.0
Nitrate-N	0.20 - 4.0
O-PO4	0.20 - 4.0
Sulfate	0.20 - 10.0

IC Data Qualifiers used by the analyst in the raw data evaluation.

CE = Co-Elution or masking of peak(s) has been identified
OR = Over Range - Peak exceeds the highest standard of the calibration curve
OD = Over Dilution - The ion is reported from a less dilute injection
NR = Not Required - analysis was not required for this ion
AD = Analyst Discretion was used in the evaluation and the reporting of the ion
RE = Reported Elsewhere
RT = Retention Time Shift
MI = Manual Integration (baseline)

Analyst Signature: Colleen Kuya Date: 11/2/17 - 11/3/17

Reviewer Signature: [signature] Date: 11/3/17

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC8: ICS 1100	Method: SevenAnions
Batch:	408255	
Date:	11/2/2017	

Analyst:	Colleen Krupa

Parameter	ICV RT Minutes	RT Window +/- 2 %	
Fluoride	2.49	2.44	2.54
Chloride	3.40	3.33	3.47
Nitrite	3.93	3.85	4.01
Bromide		0.00	0.00
Nitrate	5.34	5.23	5.45
Orthophosphate		0.00	0.00
Sulfate	7.83	7.67	7.99

Analyst Signature: Colleen Krupa Date: 11/3/17

Sequence Overview

Sequence Details

Name:	11-02-2017	*Created On:*	01/Mar/16 09:52:46
Directory:	Instrument Data\ICS1100_1\2_Data\2017-1	*Created By:*	CHIINSTIC7
Data Vault:	ChromeleonLocal	*Updated On:*	02/Nov/17 18:10:31
No. of Injections:	81	*Updated By:*	CHIINSTIC7

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Comment
1	ICV	RA1	Check Standard	04	02/Nov/17 10:31:28	IC Stock II
2	ICB	RA2	Unknown		02/Nov/17 10:44:11	
3	MB	RA3	Unknown		02/Nov/17 10:56:50	
4	LCS	RA4	Check Standard	04	02/Nov/17 11:09:29	IC Stock II
5	500-136632-V-2	RB1	Unknown		02/Nov/17 11:22:08	F, CL, NO2, NO3, SO4
6	500-136632-V-3	RB2	Unknown		02/Nov/17 11:34:47	F, CL, NO2, NO3, SO4
7	500-136264-B-2	RB3	Unknown		02/Nov/17 11:47:26	CL, SO4
8	500-135898-D-1	RB4	Unknown		02/Nov/17 12:00:04	CL, SO4
9	500-135898-D-2	RB5	Unknown		02/Nov/17 12:12:43	CL, SO4
10	500-136564-A-8	RB6	Unknown		02/Nov/17 12:25:22	CL
11	500-136564-A-8 MS	RB7	Spiked	03	02/Nov/17 12:38:00	CL
12	500-136564-A-8 MSD	RB8	Spiked	03	02/Nov/17 12:50:42	CL
13	CCV	RA5	Check Standard	03	02/Nov/17 13:03:20	IC Stock I
14	CCB	RA6	Unknown		02/Nov/17 13:15:59	
15	500-136029-L-1	RC1	Unknown		02/Nov/17 13:28:39	CL, NO3, SO4
16	500-136029-L-1 MS	RC2	Spiked	03	02/Nov/17 13:41:18	CL, NO3, SO4
17	500-136029-L-1 MSD	RC3	Spiked	03	02/Nov/17 13:53:56	CL, NO3, SO4
18	500-135786-Y-1	RC4	Unknown		02/Nov/17 14:06:35	F, CL, SO4
19	500-135786-Y-1	RC5	Unknown		02/Nov/17 14:19:14	F, CL, SO4
20	500-135786-Y-2	RC6	Unknown		02/Nov/17 14:31:52	F, CL, SO4
21	500-135786-Y-2	RC7	Unknown		02/Nov/17 14:44:32	F, CL, SO4
22	500-136098-I-1	RC8	Unknown		02/Nov/17 14:57:11	F
23	500-135786-Y-1	RD3	Unknown		02/Nov/17 15:09:50	F, CL, SO4
24	500-135786-Y-2	RD4	Unknown		02/Nov/17 15:22:29	F, CL, SO4
25	CCV	RA5	Check Standard	03	02/Nov/17 15:35:12	IC Stock I
26	CCB	RA6	Unknown		02/Nov/17 15:47:51	
27	500-136098-I-1 MS	RD1	Spiked	03	02/Nov/17 16:00:31	F
28	500-136098-I-1 MSD	RD2	Spiked	03	02/Nov/17 16:13:09	F
29	500-135617-A-8	RD5	Unknown		02/Nov/17 16:25:48	CL, SO4
30	500-135617-A-8	RD6	Unknown		02/Nov/17 16:38:26	F
31	500-135617-A-10	RD7	Unknown		02/Nov/17 16:51:05	CL, SO4
32	500-135617-A-10	RD8	Unknown		02/Nov/17 17:03:44	CL, SO4
33	500-135617-A-12	RE1	Unknown		02/Nov/17 17:16:23	CL, SO4
34	500-135617-A-12	RE2	Unknown		02/Nov/17 17:29:01	CL, SO4
35	500-135617-A-14	RE3	Unknown		02/Nov/17 17:41:39	CL, SO4
36	500-135617-A-14	RE4	Unknown		02/Nov/17 17:54:17	CL, SO4
37	CCV	RA7	Check Standard	03	02/Nov/17 18:06:57	IC Stock I
38	CCB	RA8	Unknown		02/Nov/17 18:19:40	
39	500-135617-A-16	RE5	Unknown		02/Nov/17 18:32:19	CL, SO4
40	500-135617-A-16	RE6	Unknown		02/Nov/17 18:44:57	CL, SO4
41	500-135617-A-18	RE7	Unknown		02/Nov/17 18:57:36	CL, SO4
42	500-136029-L-1 MS	GA1	Spiked	03	02/Nov/17 19:10:19	CL, NO3, SO4

408255

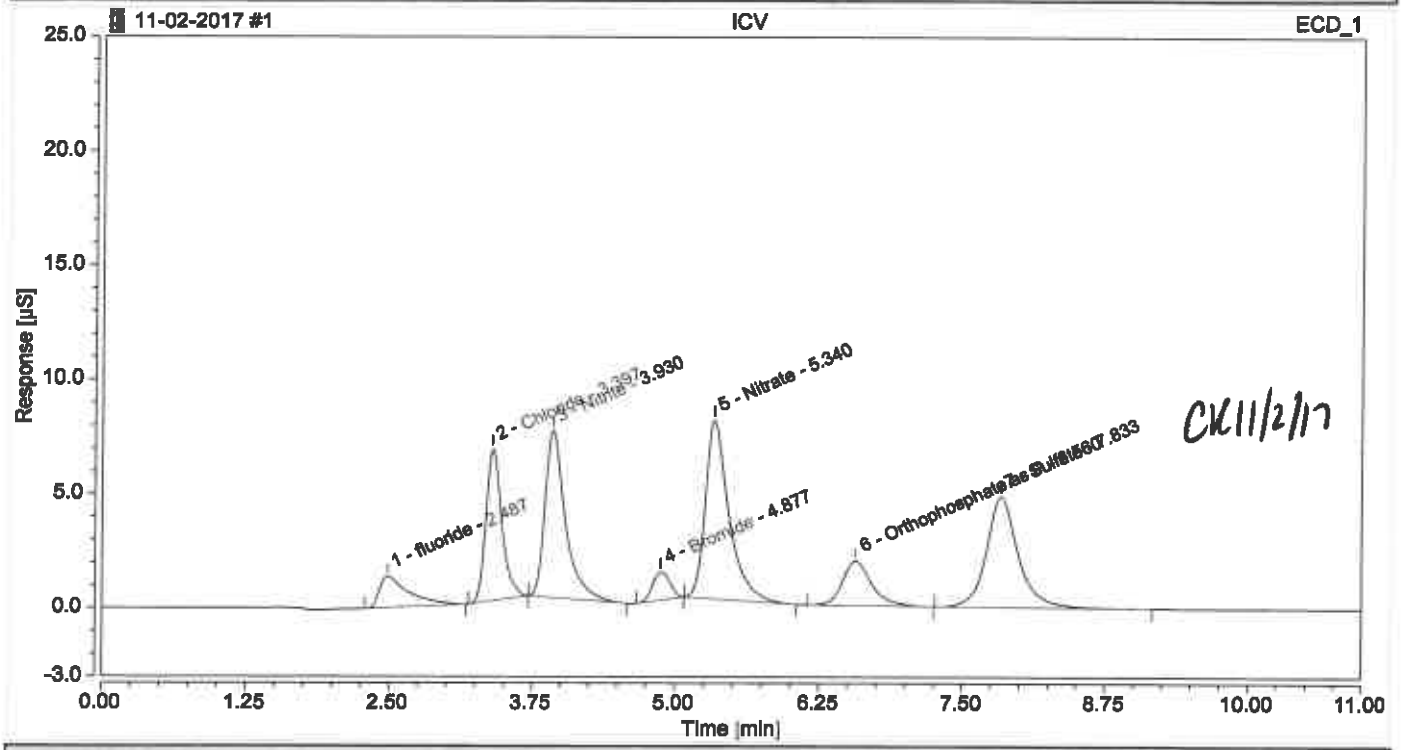
43	500-136029-L-1 MSD	GA2	Spiked	03	02/Nov/17 19:22:59	CL, NO3, SO4
44	500-135607-L-5	GA3	Unknown		02/Nov/17 19:35:37	CL, SO4
45	500-135607-L-5	GA4	Unknown		02/Nov/17 19:48:16	CL, SO4
46	500-135607-L-6	GA5	Unknown		02/Nov/17 20:00:55	CL, SO4
47	500-135607-L-6	GA6	Unknown		02/Nov/17 20:13:34	CL, SO4
48	500-135607-L-7	GA7	Unknown		02/Nov/17 20:26:13	CL, SO4
49	CCV	RA5	Check Standard	03	02/Nov/17 20:39:07	IC Stock I
50	CCB	RA6	Unknown		02/Nov/17 20:51:47	
51	500-135607-L-7	GA8	Unknown		02/Nov/17 21:04:27	CL, SO4
52	500-136039-W-1	GB1	Unknown		02/Nov/17 21:17:07	F, CL, SO4
53	500-136039-W-1	GB2	Unknown		02/Nov/17 21:29:46	F, CL, SO4
54	MB	RA3	Unknown		02/Nov/17 21:42:26	
55	LCS	RA4	Check Standard	04	02/Nov/17 21:55:05	IC Stock II
56	500-136039-W-2	GC6	Unknown		02/Nov/17 22:07:45	CL, SO4
57	500-136039-W-2	GC7	Unknown		02/Nov/17 22:20:24	CL, SO4
58	500-136039-W-2	GC8	Unknown		02/Nov/17 22:33:02	CL, SO4
59	500-136006-B-1	GD1	Unknown		02/Nov/17 22:45:41	CL, SO4
60	500-136006-B-1	GD2	Unknown		02/Nov/17 22:58:20	CL, SO4
61	CCV	RA7	Check Standard	03	02/Nov/17 23:10:59	IC Stock I
62	CCB	RA8	Unknown		02/Nov/17 23:23:38	
63	500-136006-B-2	GD3	Unknown		02/Nov/17 23:36:18	CL, SO4
64	500-136006-B-2	GD4	Unknown		02/Nov/17 23:48:57	CL, SO4
65	500-136006-B-3	GD5	Unknown		03/Nov/17 00:01:35	CL, SO4
66	500-136006-B-3	GD6	Unknown		03/Nov/17 00:14:14	CL, SO4
67	500-136702-X-1	GD7	Unknown		03/Nov/17 00:26:53	f, CL, NO2, NO3, SO4
68	500-136702-X-1	GD8	Unknown		03/Nov/17 00:39:32	f, CL, NO2, NO3, SO4
69	500-136702-X-2	GE1	Unknown		03/Nov/17 00:52:11	f, CL, NO2, NO3, SO4
70	500-136702-X-2	GE2	Unknown		03/Nov/17 01:04:50	f, CL, NO2, NO3, SO4
71	500-136702-X-2 MS	GE3	Spiked	03	03/Nov/17 01:17:29	f, CL, NO2, NO3, SO4
72	500-136702-X-2 MSD	GE4	Spiked	03	03/Nov/17 01:30:08	f, CL, NO2, NO3, SO4
73	CCV	RA7	Check Standard	03	03/Nov/17 01:42:47	IC Stock I
74	CCB	RA8	Unknown		03/Nov/17 01:55:26	
75	500-136702-X-2 MS	GE5	Spiked	03	03/Nov/17 02:08:05	f, CL, NO2, NO3, SO4
76	500-136702-X-2 MSD	GE6	Spiked	03	03/Nov/17 02:20:43	f, CL, NO2, NO3, SO4
77	500-136702-X-3	GE7	Unknown		03/Nov/17 02:33:21	f, CL, NO2, NO3, SO4
78	500-136702-X-3	GE8	Unknown		03/Nov/17 02:45:59	f, CL, NO2, NO3, SO4
79	CCV	RA5	Check Standard	03	03/Nov/17 02:58:40	IC Stock I
80	CCB	RA6	Unknown		03/Nov/17 03:11:19	
81	SHUTDOWN	GD7	Blank		03/Nov/17 03:22:22	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 10:31**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

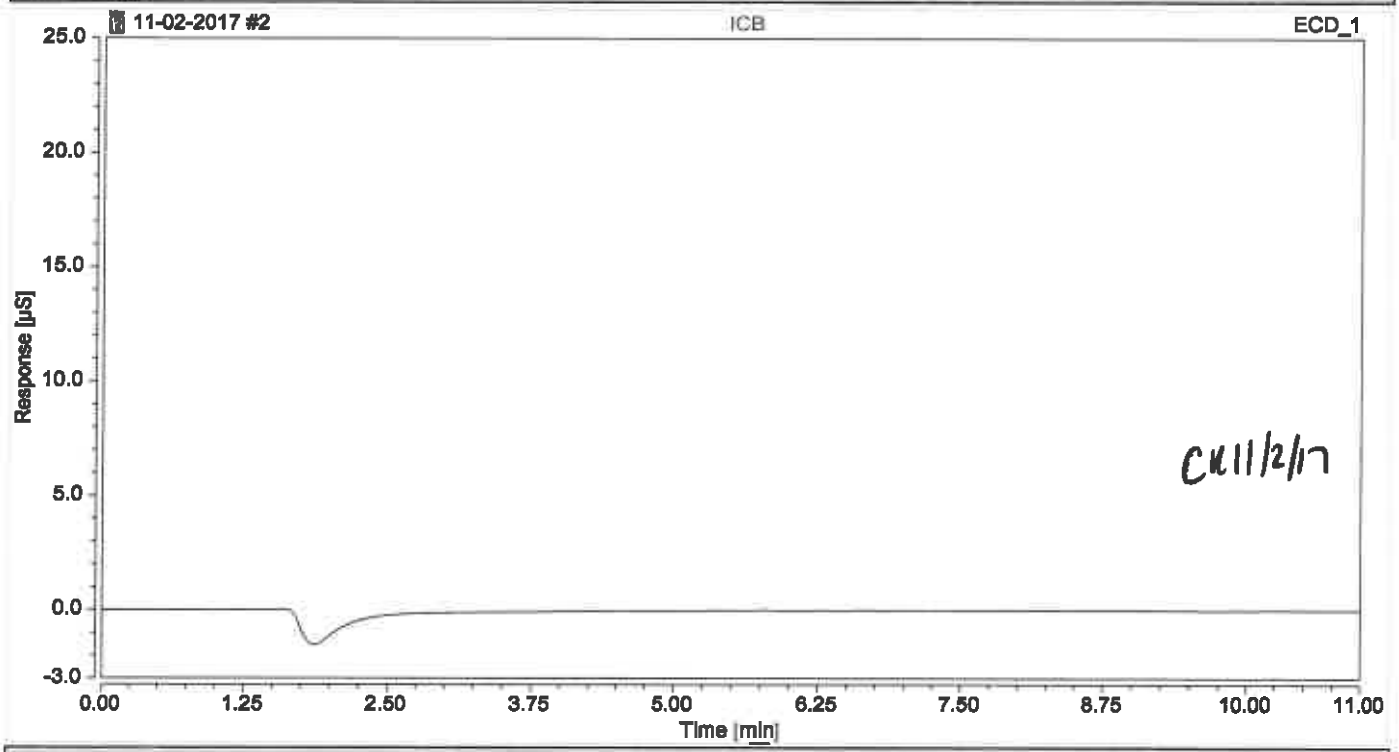
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.487	0.40378	1.367	5.57	4.37	0.9683
2	Chloride	3.397	1.09099	6.654	15.05	21.29	2.9606
3	Nitrite	3.930	1.52523	7.330	21.05	23.45	1.8967
4	Bromide	4.877	0.21311	1.241	2.94	3.97	1.9147
5	Nitrate	5.340	1.85377	7.846	25.58	25.10	1.9167
6	Orthophosphate as P	6.560	0.57630	1.961	7.95	6.27	2.0256
7	Sulfate	7.833	1.58417	4.855	21.86	15.53	5.0948
Total:			**7.247**	**31.253**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 10:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

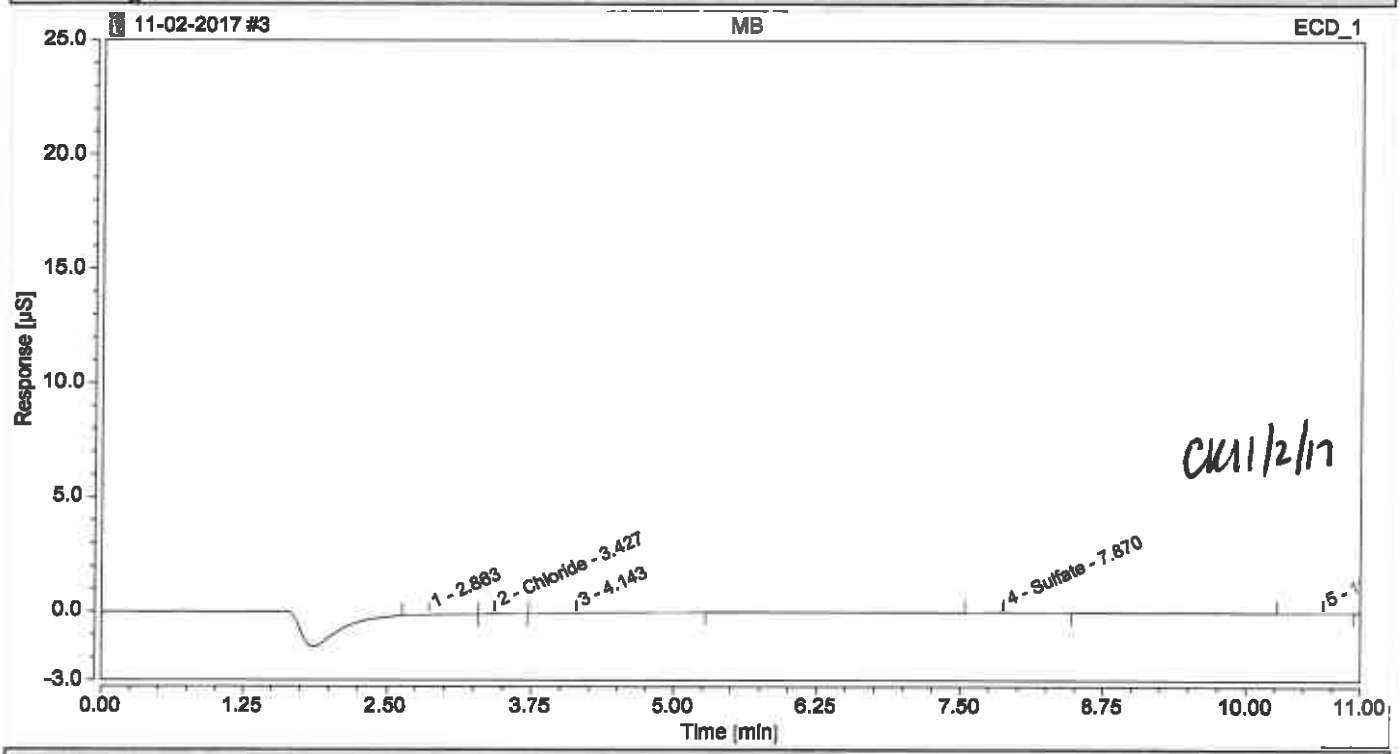
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 10:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

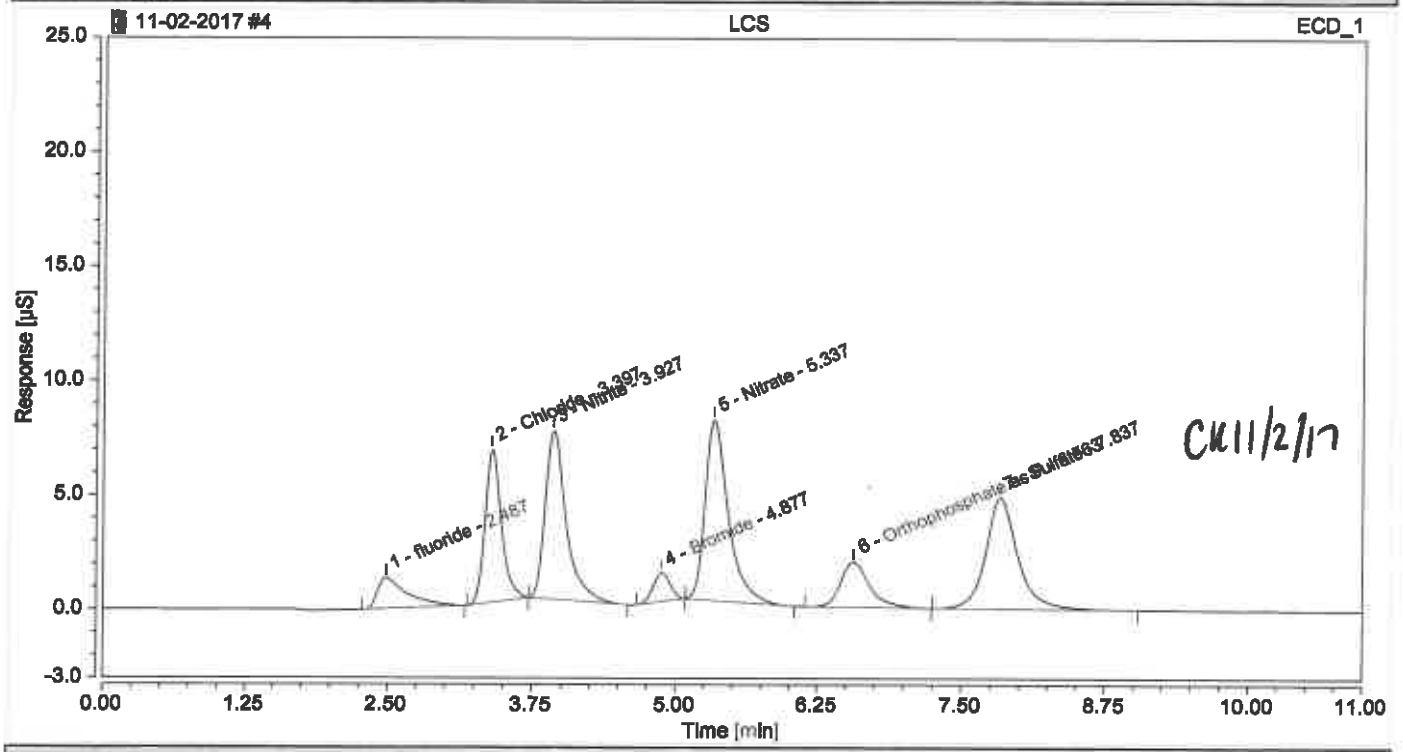
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.863	0.00732	0.017	17.92	18.29	n.a.
2	Chloride	3.427	0.00472	0.029	11.57	30.91	0.1180
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.143	0.01926	0.019	47.15	20.36	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.870	0.00661	0.020	16.18	21.20	n.a.
5		10.667	0.00293	0.009	7.18	9.24	n.a.
Total:			**0.041**	**0.094**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 11:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

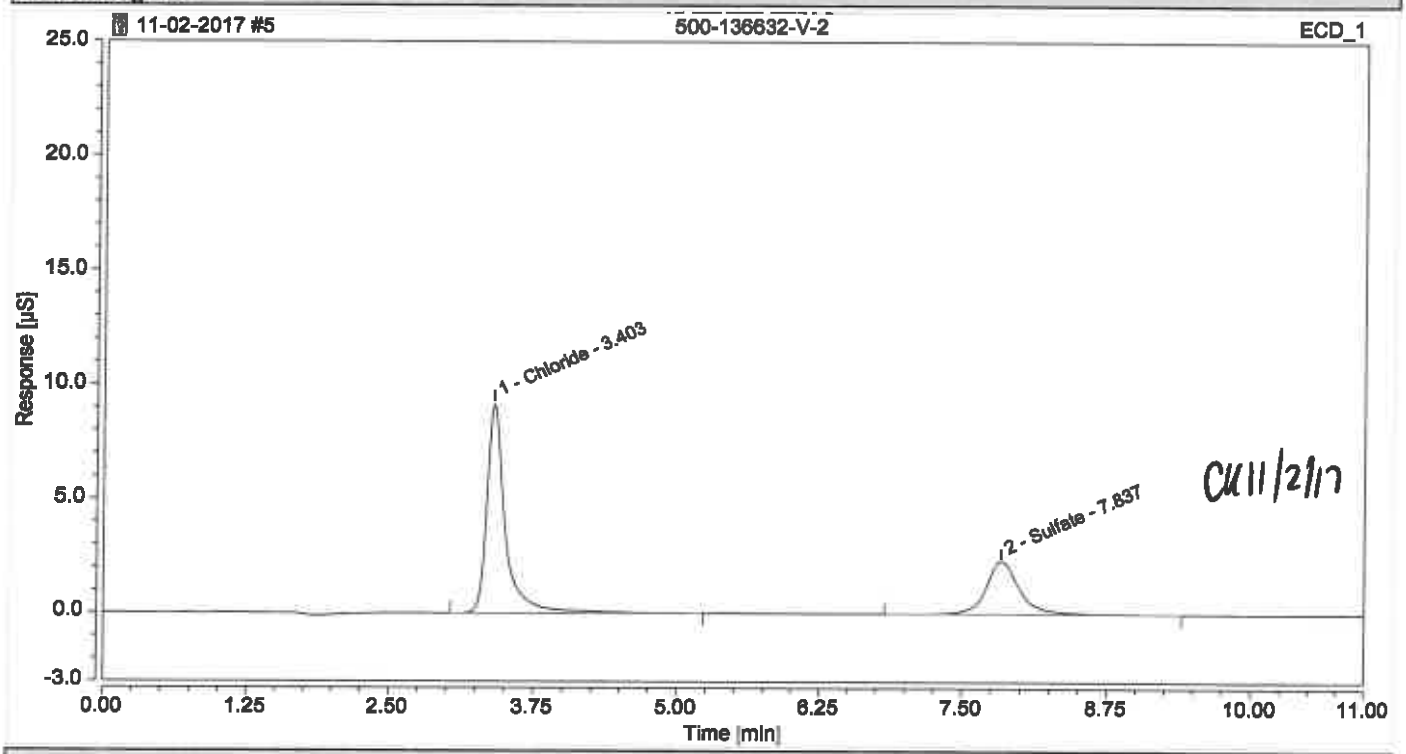
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.487	0.40354	1.357	5.54	4.31	0.9677
2	Chloride	3.397	1.09318	6.711	15.02	21.31	2.9663
3	Nitrite	3.927	1.53379	7.382	21.08	23.44	1.9071
4	Bromide	4.877	0.21619	1.256	2.97	3.99	1.9414
5	Nitrate	5.337	1.85959	7.915	25.55	25.13	1.9225
6	Orthophosphate as P	6.563	0.58382	1.992	8.02	6.32	2.0506
7	Sulfate	7.837	1.58744	4.880	21.81	15.50	5.1057
Total:			**7.278**	**31.492**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136632-V-2**	*Run Time (min):*	**11.00**
Vial Number:	**RB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**02/Nov/17 11:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

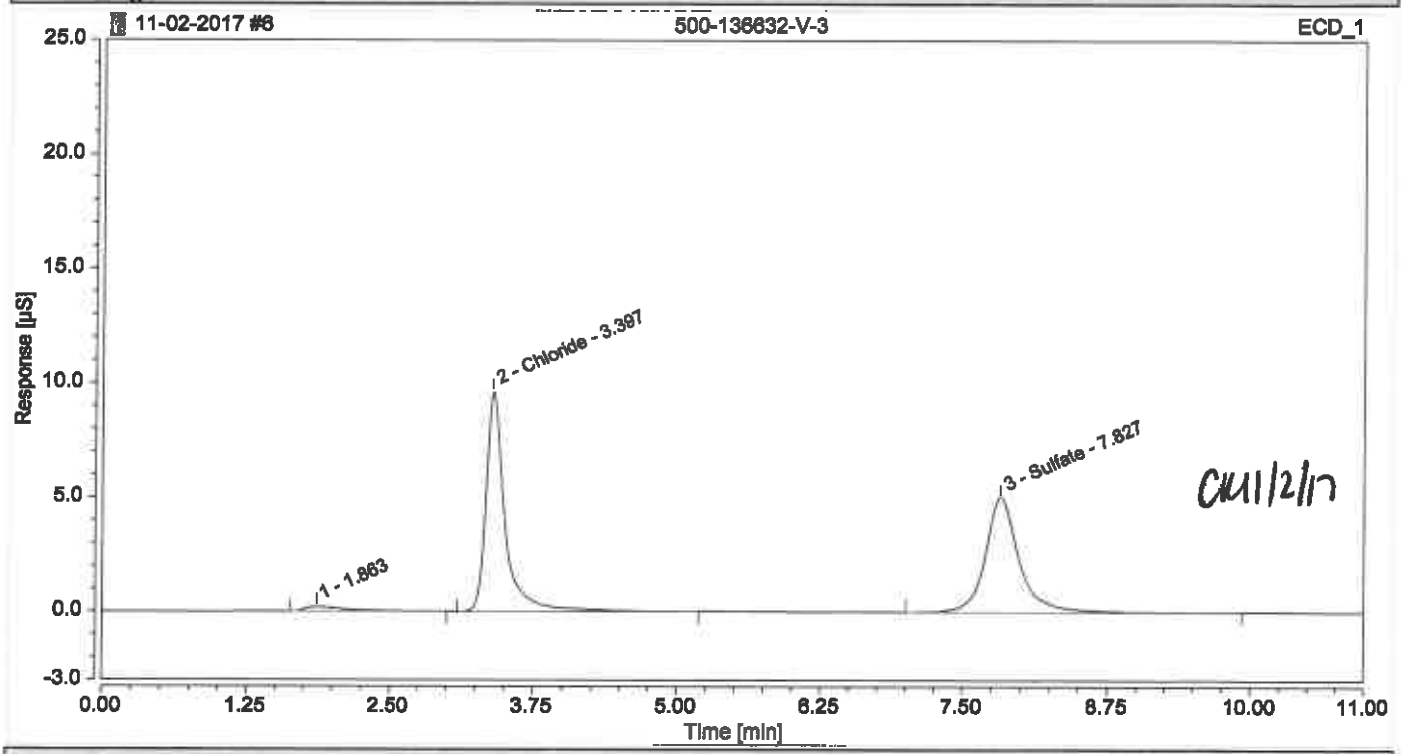
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.403	1.70334	9.178	68.31	79.84	912.6012
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate AD	7.837	0.79027	2.317	31.69	20.16	490.7991
Total:			**2.494**	**11.495**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136632-V-3**	*Run Time (min):*	**11.00**
Vial Number:	**RB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 11:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

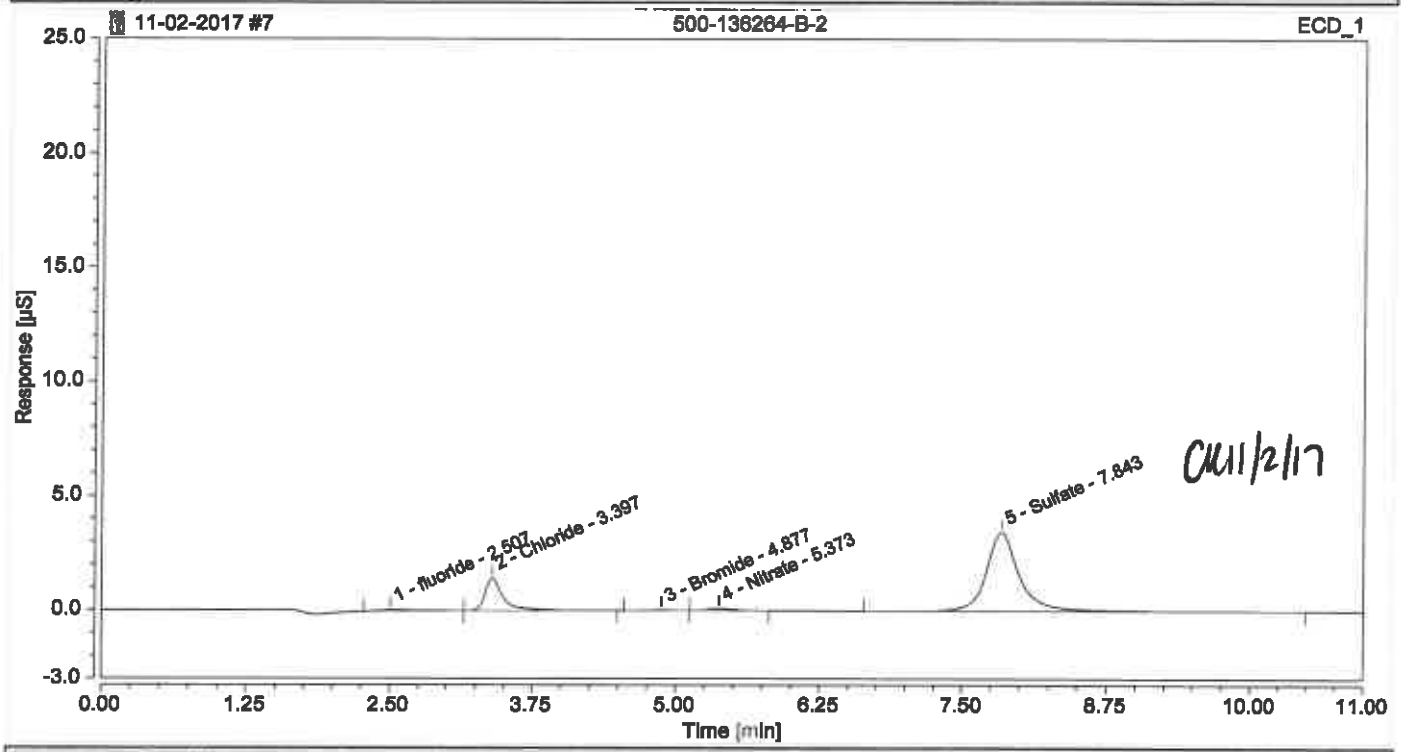
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.08346	0.200	2.27	1.35	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.397	1.87834	9.619	51.18	64.80	502.0961
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.827	1.70841	5.026	46.55	33.86	550.8095
Total:			**3.670**	**14.845**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136264-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**RB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**02/Nov/17 11:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

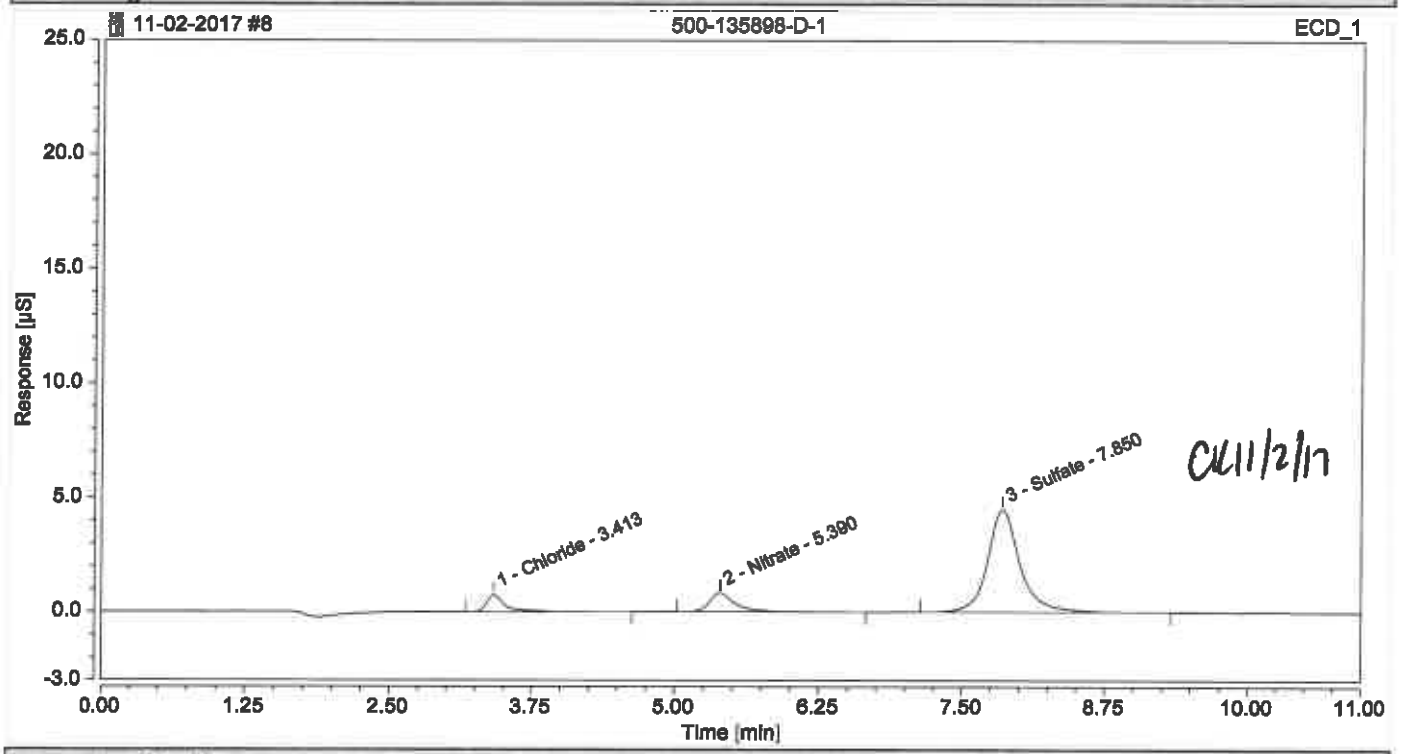
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.02393	0.056	1.58	1.10	31.3992
2	Chloride CE	3.397	0.27025	1.432	17.90	28.29	812.8276
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	4.877	0.00693	0.034	0.46	0.67	130.7416
4	Nitrate	5.373	0.02118	0.090	1.40	1.77	85.1873
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	7.843	1.18766	3.452	78.66	68.18	3775.8538
Total:			**1.510**	**5.064**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135898-D-1**	*Run Time (min):*	**11.00**
Vial Number:	**RB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**02/Nov/17 12:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

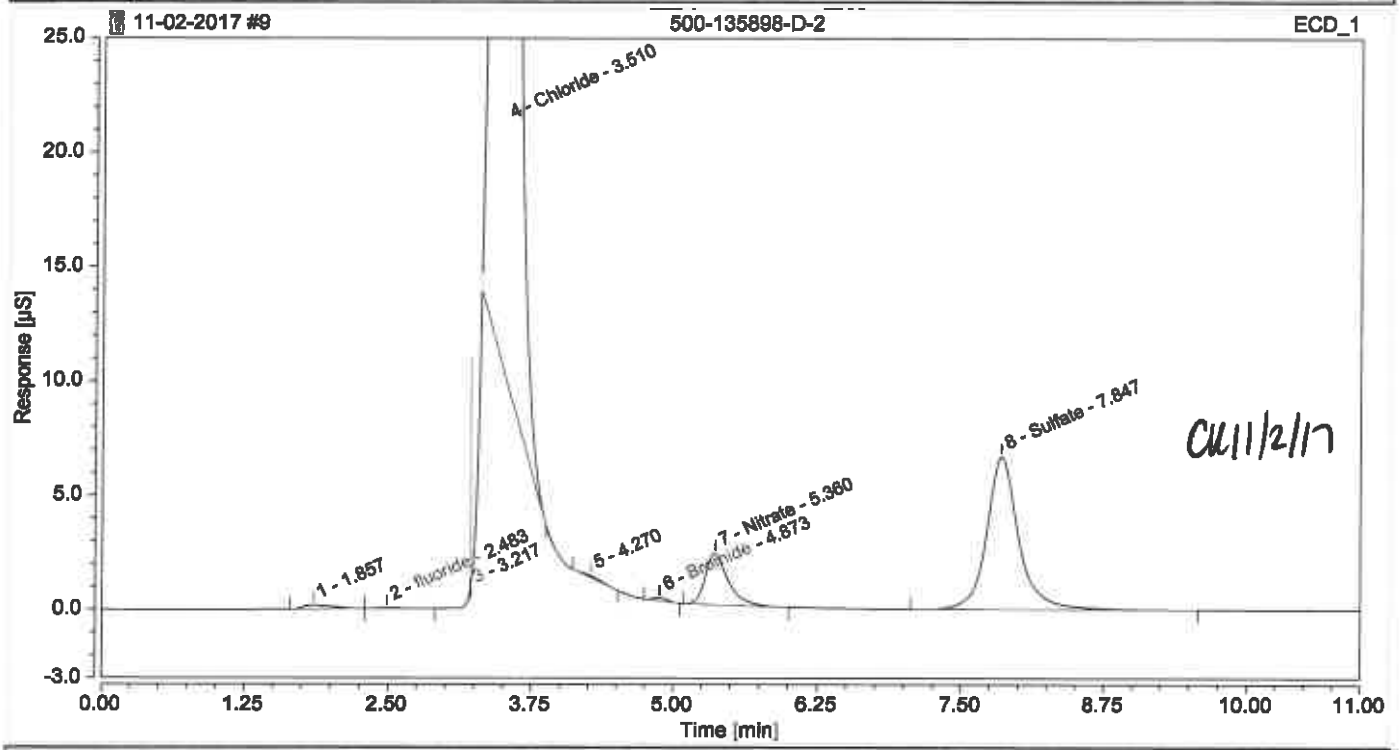
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride KE	3.413	0.15039	0.758	8.08	12.43	12.4791
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.390	0.22290	0.834	11.97	13.69	7.1699
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.850	1.48894	4.504	79.95	73.88	119.4514
Total:			**1.862**	**6.096**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135898-D-2**	*Run Time (min):*	**11.00**
Vial Number:	**RB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**02/Nov/17 12:12**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

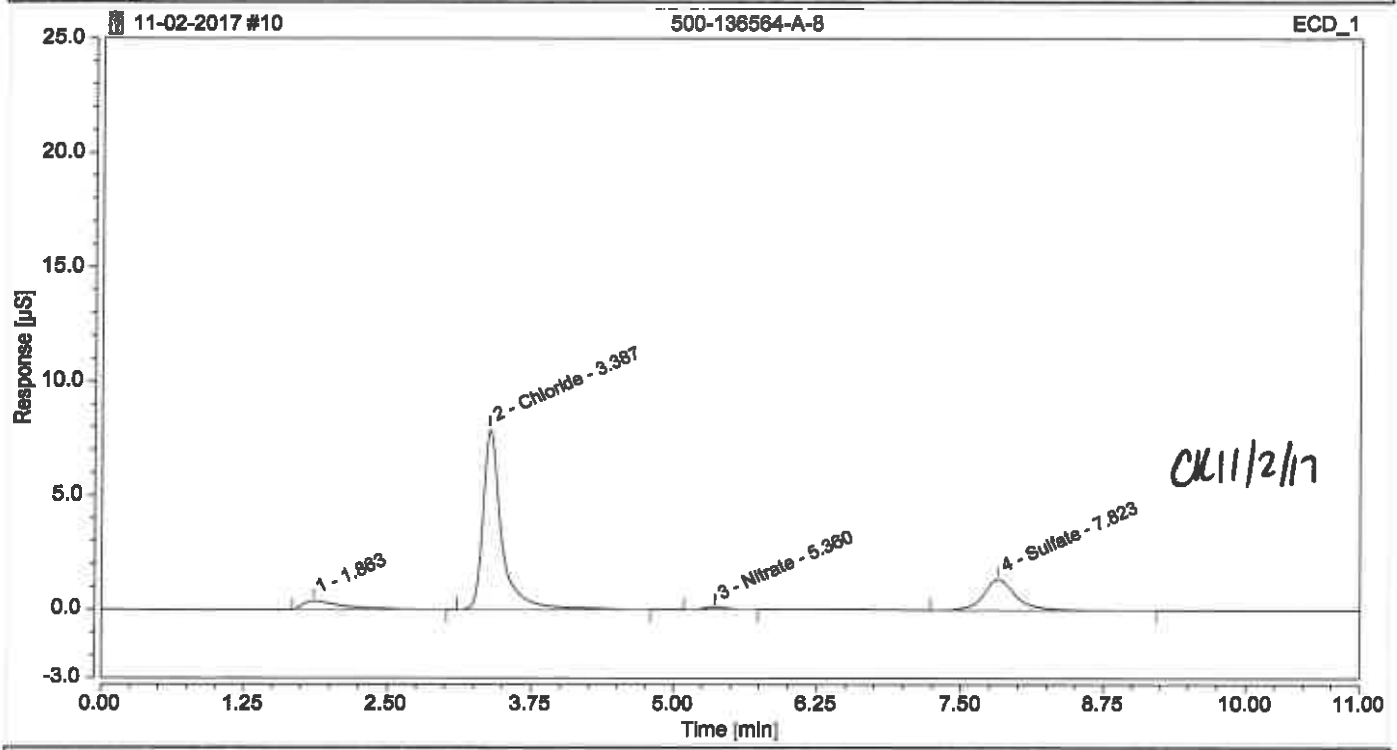
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.857	0.05046	0.172	0.13	0.06	n.a.
2	fluoride	2.483	0.01079	0.038	0.03	0.01	n.a.
3		3.217	0.10071	10.062	0.26	3.76	n.a.
4	Chloride VE	3.510	36.56723	248.140	92.61	92.73	957.9675
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.270	0.01678	0.080	0.04	0.03	n.a.
6	Bromide	4.873	0.02120	0.141	0.05	0.05	2.5428
7	Nitrate	5.360	0.52352	2.260	1.33	0.84	5.8723
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	7.847	2.19298	6.699	5.55	2.50	71.2000
Total:			**39.484**	**267.592**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136564-A-8**	*Run Time (min):*	**11.00**
Vial Number:	**RB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 12:25**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

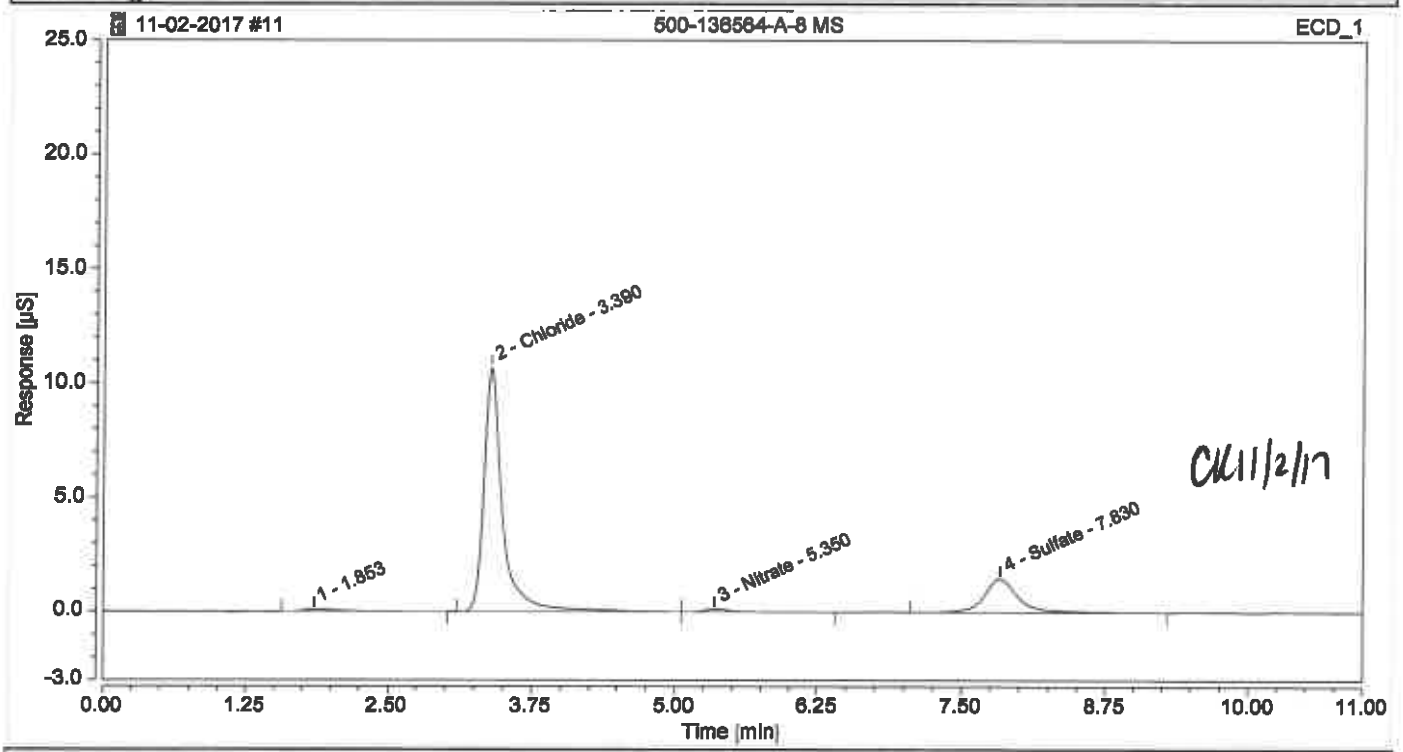
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.14685	0.363	6.85	3.73	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.387	1.51420	7.910	70.59	81.23	406.8050
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.360	0.02484	0.110	1.16	1.13	8.8851
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.823	0.45931	1.354	21.41	13.91	135.3078
Total:			**2.145**	**9.738**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136564-A-8 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RB7**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 12:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

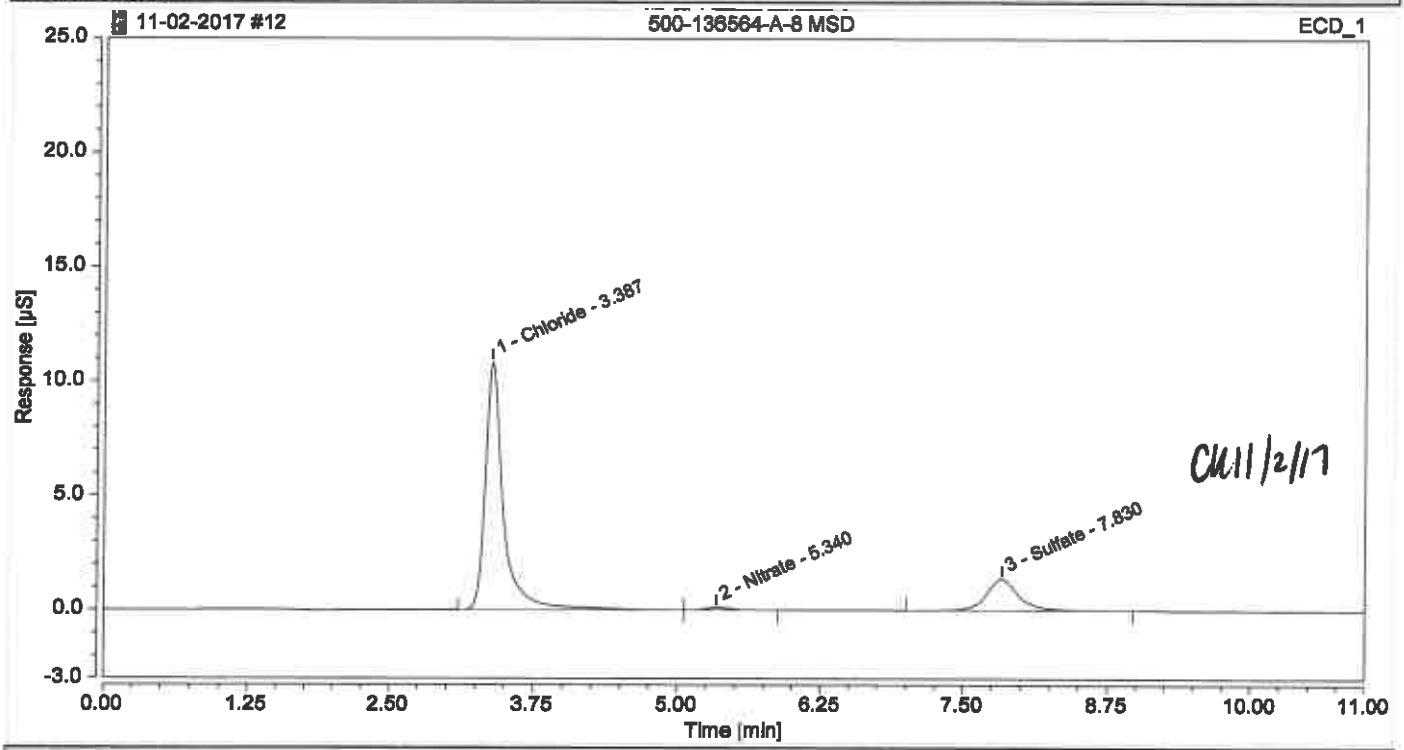
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.853	0.03808	0.091	1.48	0.74	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.390	1.99553	10.676	77.59	86.43	532.7625
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.350	0.03356	0.120	1.30	0.97	9.7560
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.830	0.50461	1.465	19.62	11.86	150.3752
Total:			**2.572**	**12.352**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136564-A-8 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**RB8**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 12:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

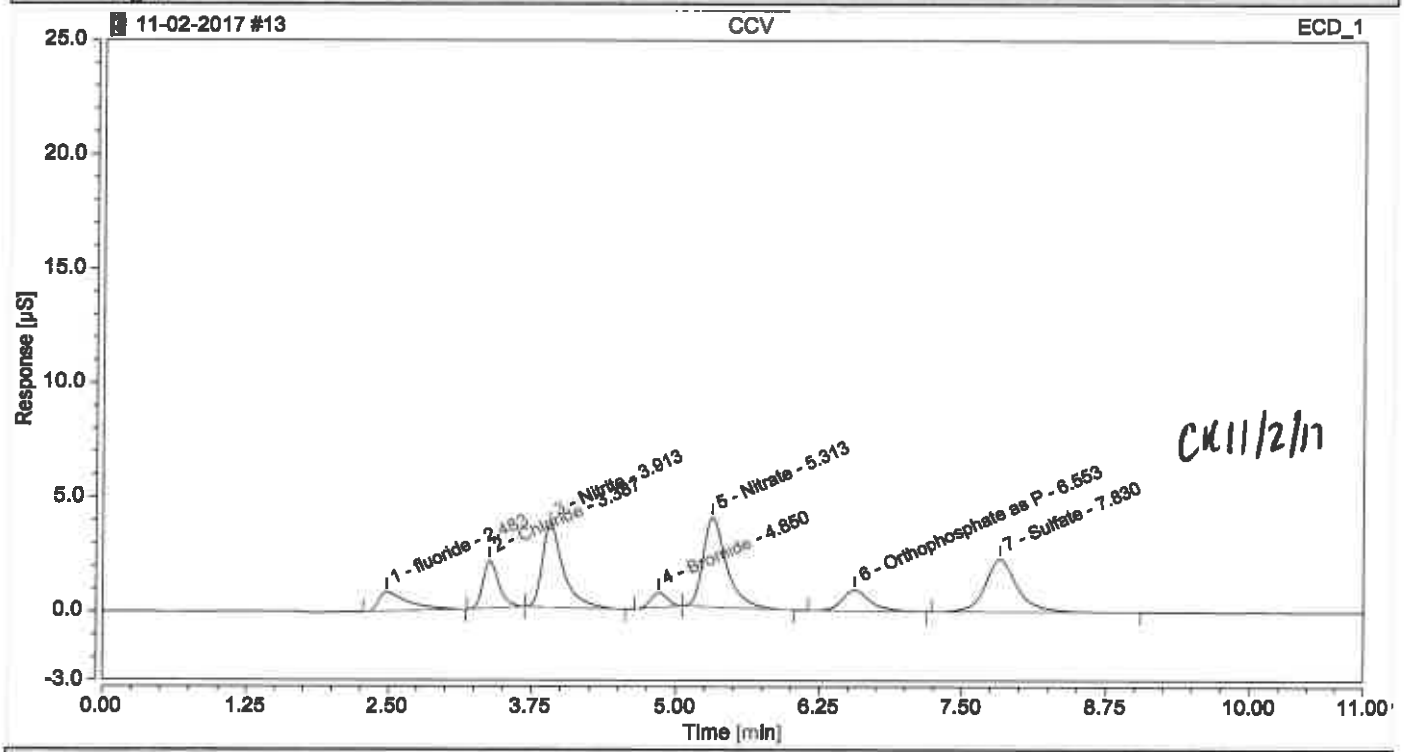
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.387	1.99884	10.866	80.54	87.92	533.6298
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.340	0.02683	0.113	1.08	0.91	9.0834
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.830	0.45610	1.380	18.38	11.16	134.2398
Total:			**2.482**	**12.359**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 13:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

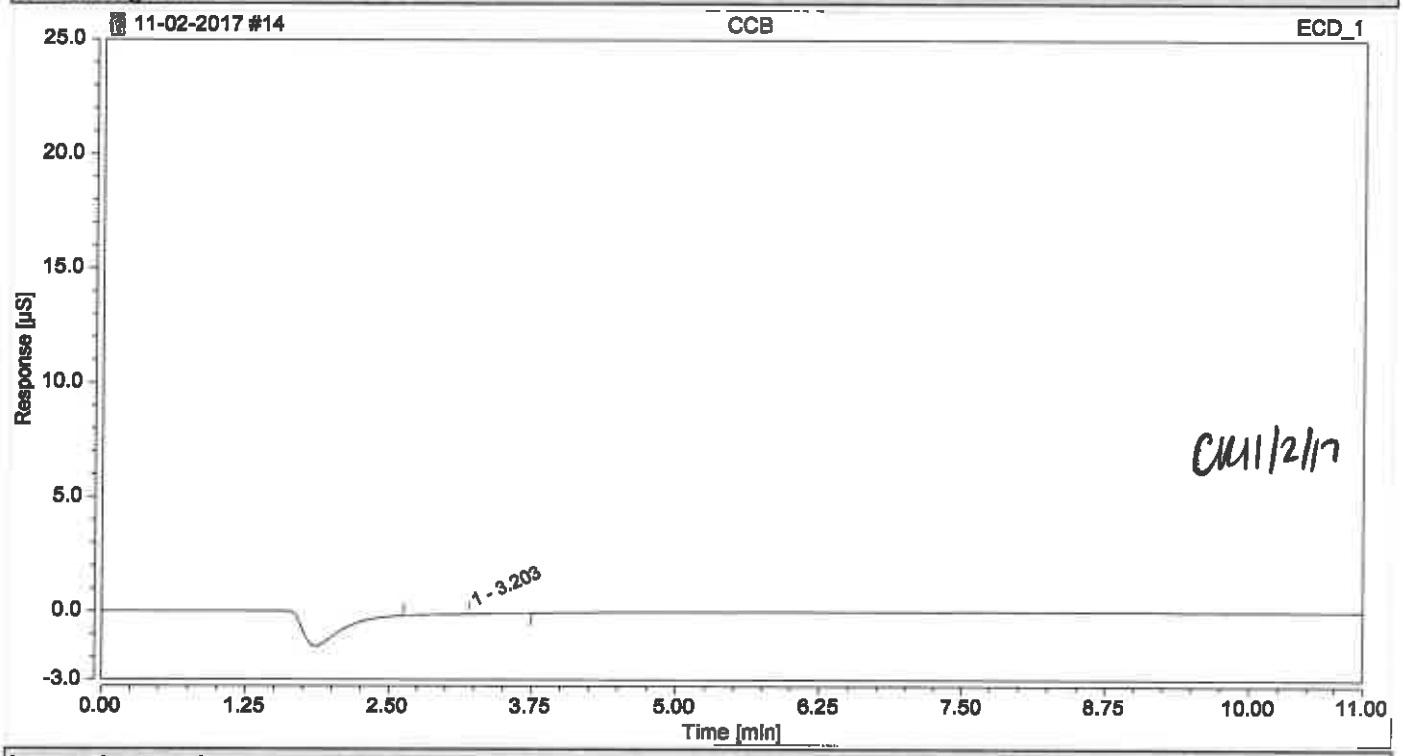
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.483	0.25116	0.840	7.42	5.85	0.5918
2	Chloride	3.387	0.33308	2.082	9.84	14.50	0.9772
3	Nitrite	3.913	0.76122	3.660	22.49	25.49	0.9699
4	Bromide	4.850	0.11131	0.650	3.29	4.52	1.0339
5	Nitrate	5.313	0.91758	3.919	27.10	27.29	0.9811
6	Orthophosphate as P	6.553	0.26071	0.905	7.70	6.30	0.9753
7	Sulfate	7.830	0.75029	2.304	22.16	16.05	2.3210
Total:			**3.385**	**14.361**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 13:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

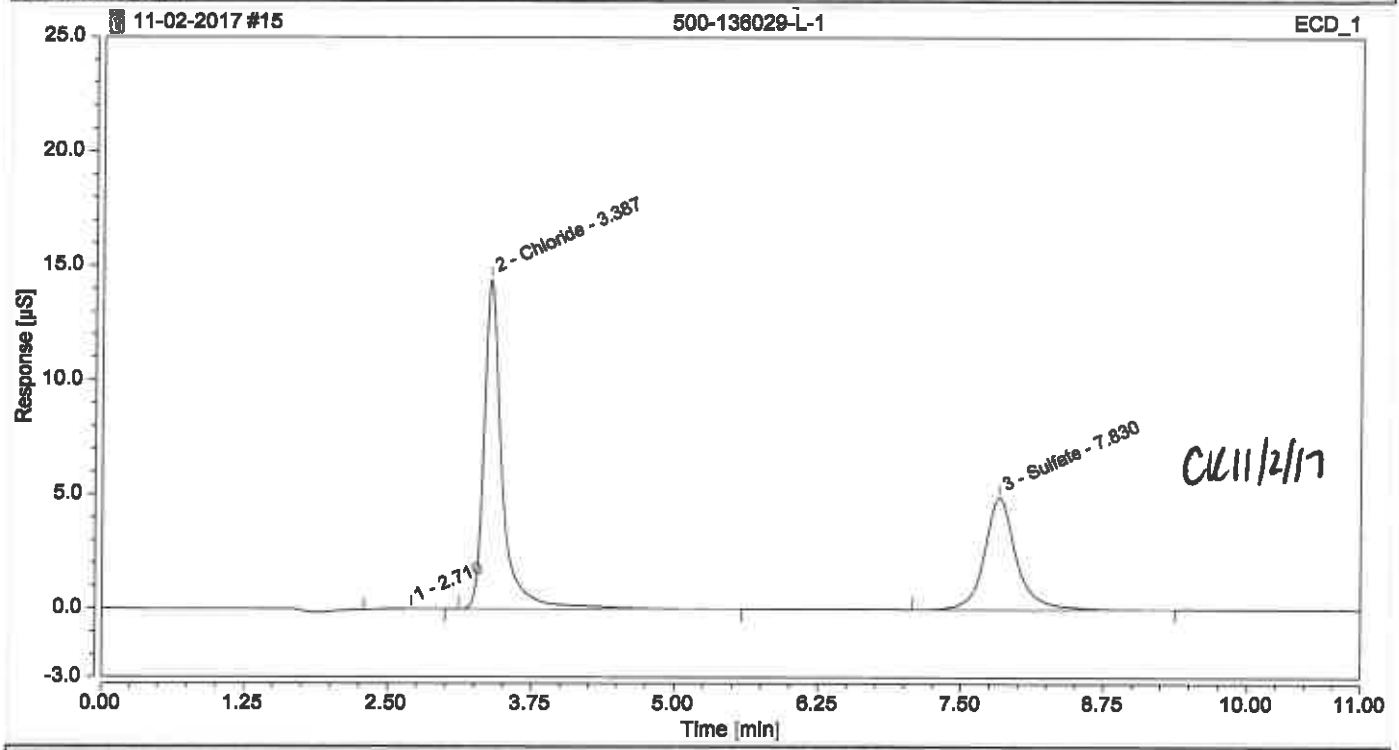
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.203	0.02279	0.031	100.00	100.00	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.023**	**0.031**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1**	*Run Time (min):*	**11.00**
Vial Number:	**RC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 13:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

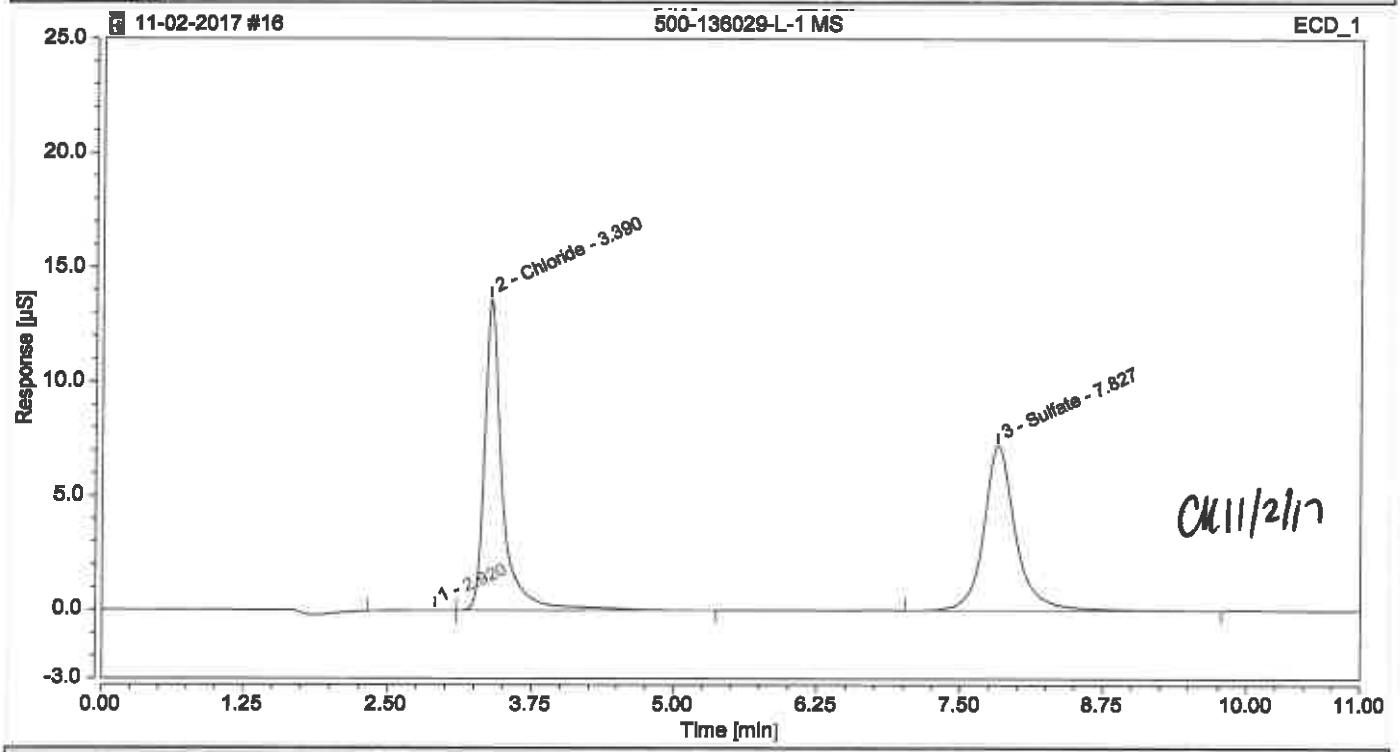
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.710	0.01038	0.020	0.24	0.10	n.a.
2	Chloride CK 11/2/17	3.387	2.66693	14.421	62.32	74.54	141.6915
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.830	1.60203	4.906	37.44	25.36	103.0846
Total:			**4.279**	**19.346**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RC2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 13:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

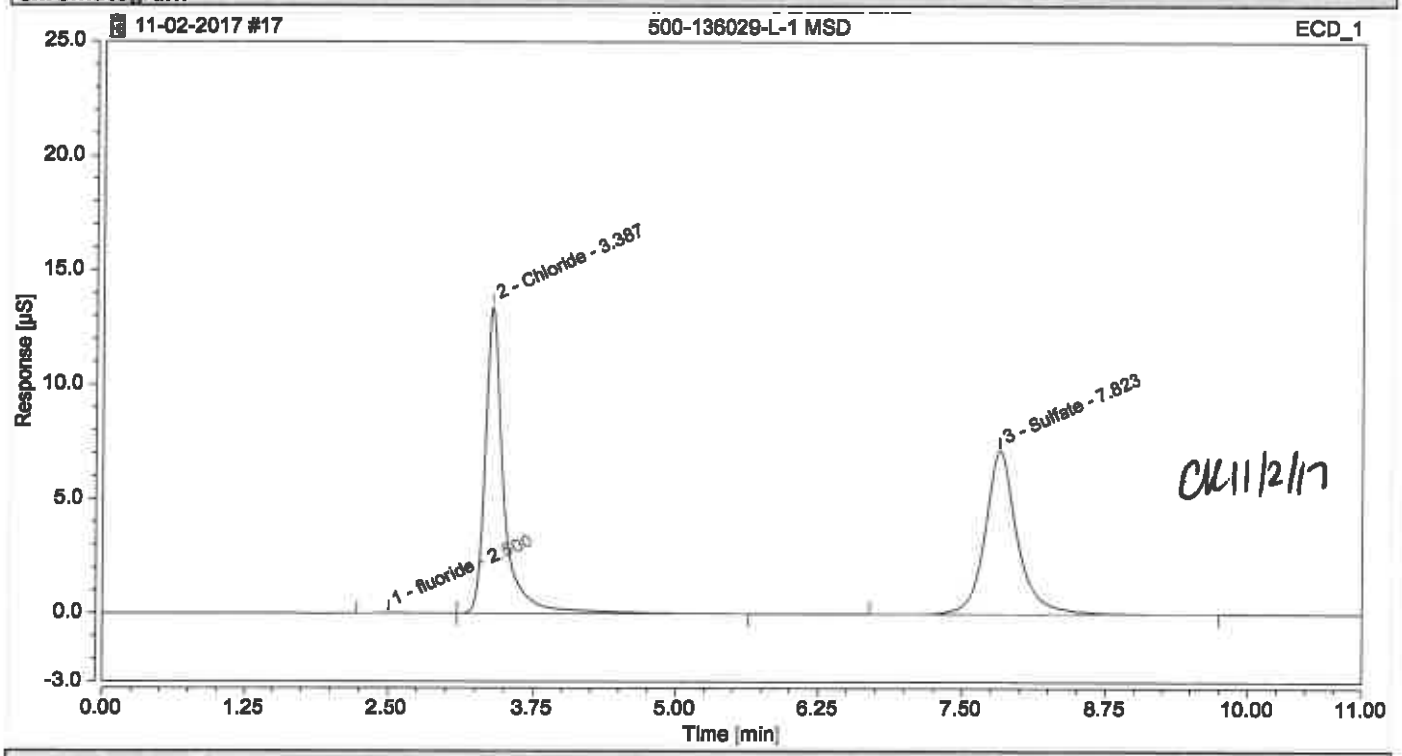
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.920	0.01080	0.010	0.22	0.05	n.a.
2	Chloride	3.390	2.50106	13.614	51.25	65.27	133.0103
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.827	2.36840	7.234	48.53	34.68	154.0703
Total:			**4.880**	**20.858**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**RC3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 13:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

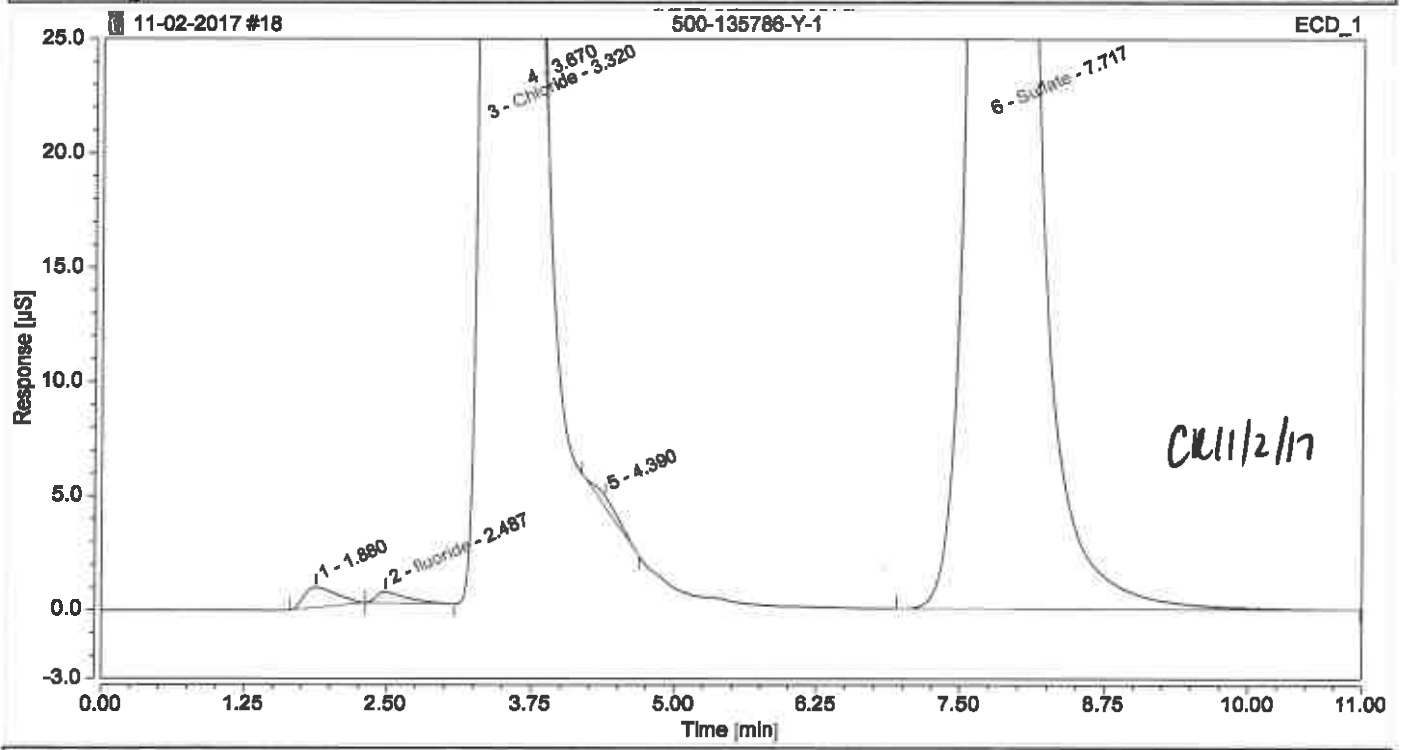
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.500	0.01112	0.027	0.23	0.13	n.a.
2	Chloride	3.387	2.49103	13.433	51.37	65.09	132.4853
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.823	2.34690	7.178	48.40	34.78	152.6397
Total:			**4.849**	**20.639**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135786-Y-1**	*Run Time (min):*	**11.00**
Vial Number:	**RC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 14:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

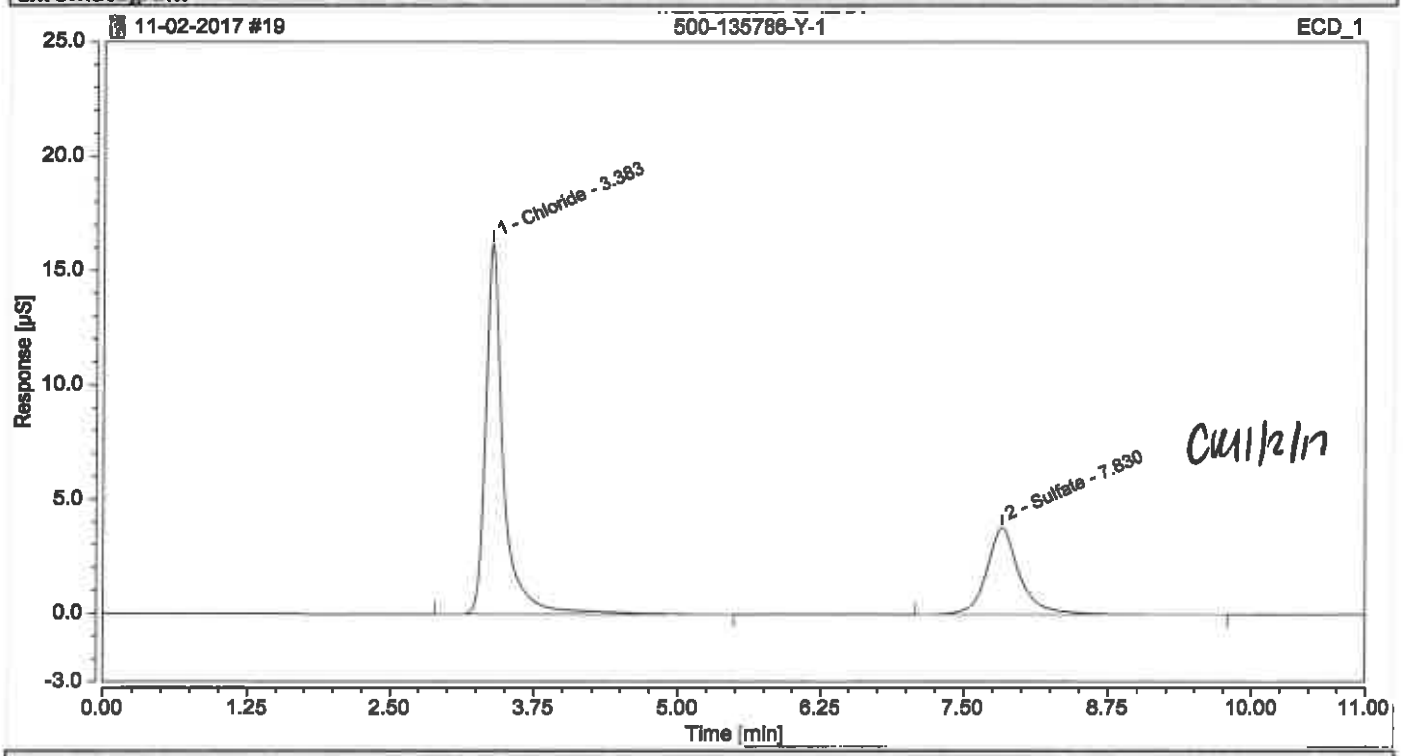
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.880	0.29020	0.886	0.11	0.08	n.a.
2	fluoride	2.487	0.14584	0.478	0.06	0.05	0.3321
3	Chloride OK	3.320	0.26222	6.628	0.10	0.63	0.7918
4		3.670	167.74577	778.072	65.54	74.42	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.390	0.12030	0.489	0.05	0.05	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	7.717	87.38245	258.977	34.14	24.77	290.4954
Total:			**255.947**	**1045.529**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-135786-Y-1	*Run Time (min):*	11.00
Vial Number:	RC5	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	F, CL, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	50.0000
Injection Date/Time:	02/Nov/17 14:19	*Sample Weight:*	1.0000

Chromatogram



Integration Results

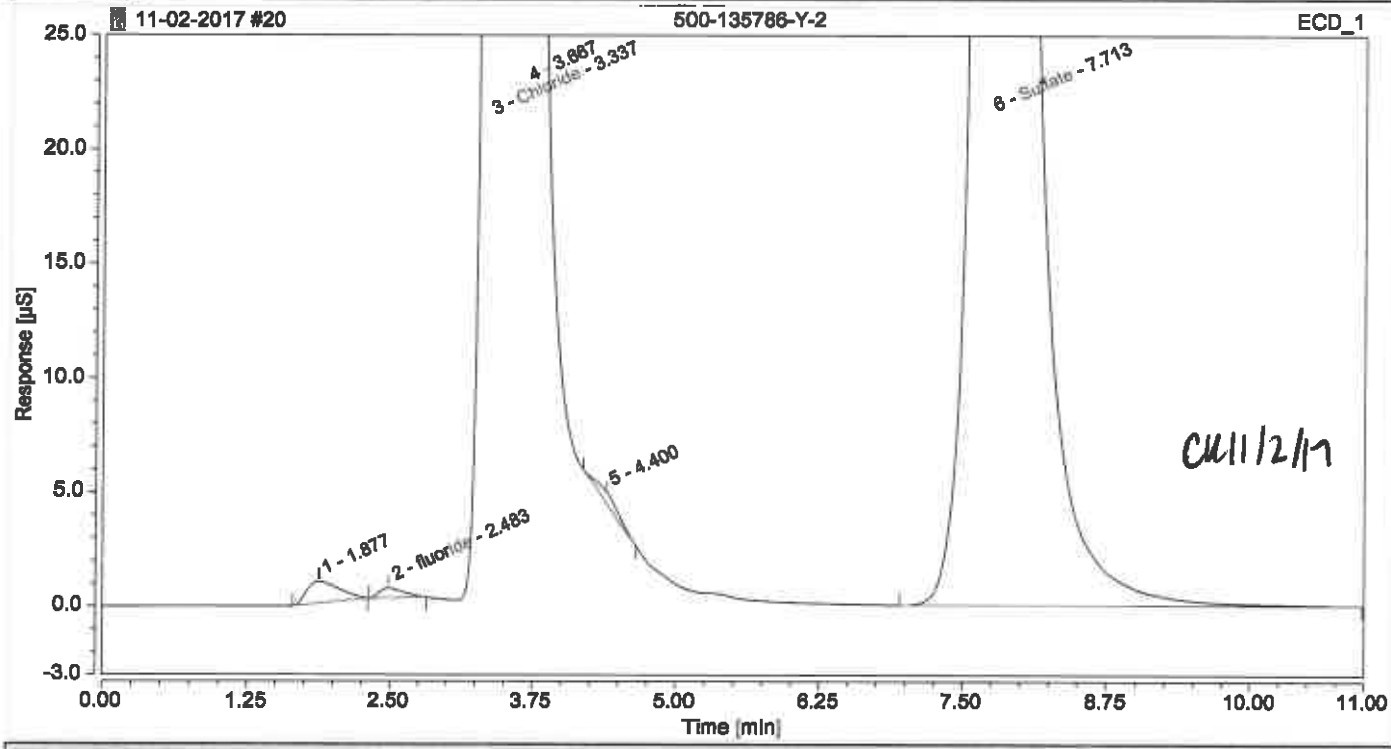
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride NC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride OK	3.383	2.91860	16.209	69.77	81.01	387.1582
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.830	1.26454	3.799	30.23	18.99	201.5807
Total:			4.183	20.009	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	**500-135786-Y-2**	*Run Time (min):*	**11.00**
Vial Number:	**RC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 14:31**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

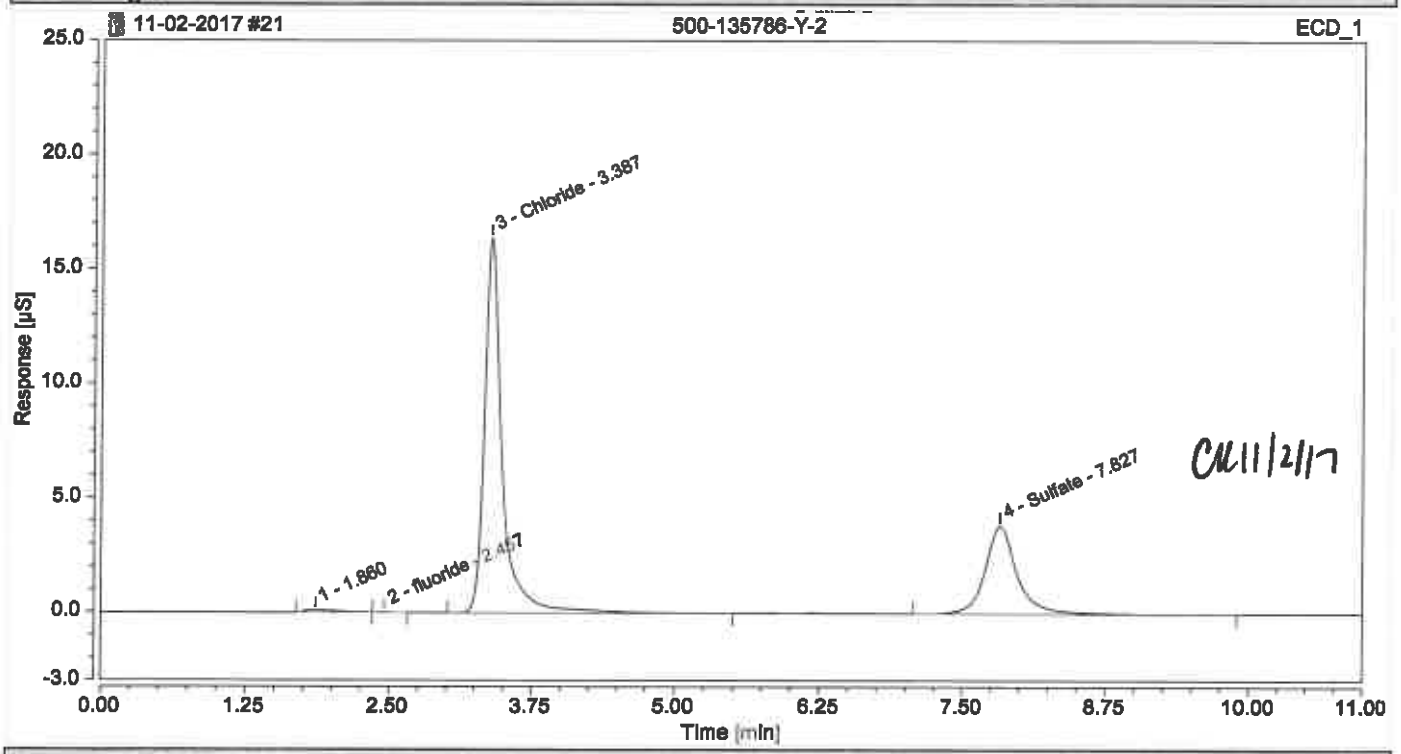
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.877	0.30849	0.949	0.13	0.09	n.a.
2	fluoride	2.483	0.10523	0.430	0.04	0.04	0.2319
3	Chloride OK	3.337	0.72566	15.030	0.30	1.46	2.0046
4		3.667	153.10425	752.427	63.23	73.11	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.400	0.12372	0.529	0.05	0.05	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	7.713	87.76636	259.841	36.25	25.25	291.7724
Total:			**242.134**	**1029.206**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135786-Y-2**	*Run Time (min):*	**11.00**
Vial Number:	**RC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**02/Nov/17 14:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

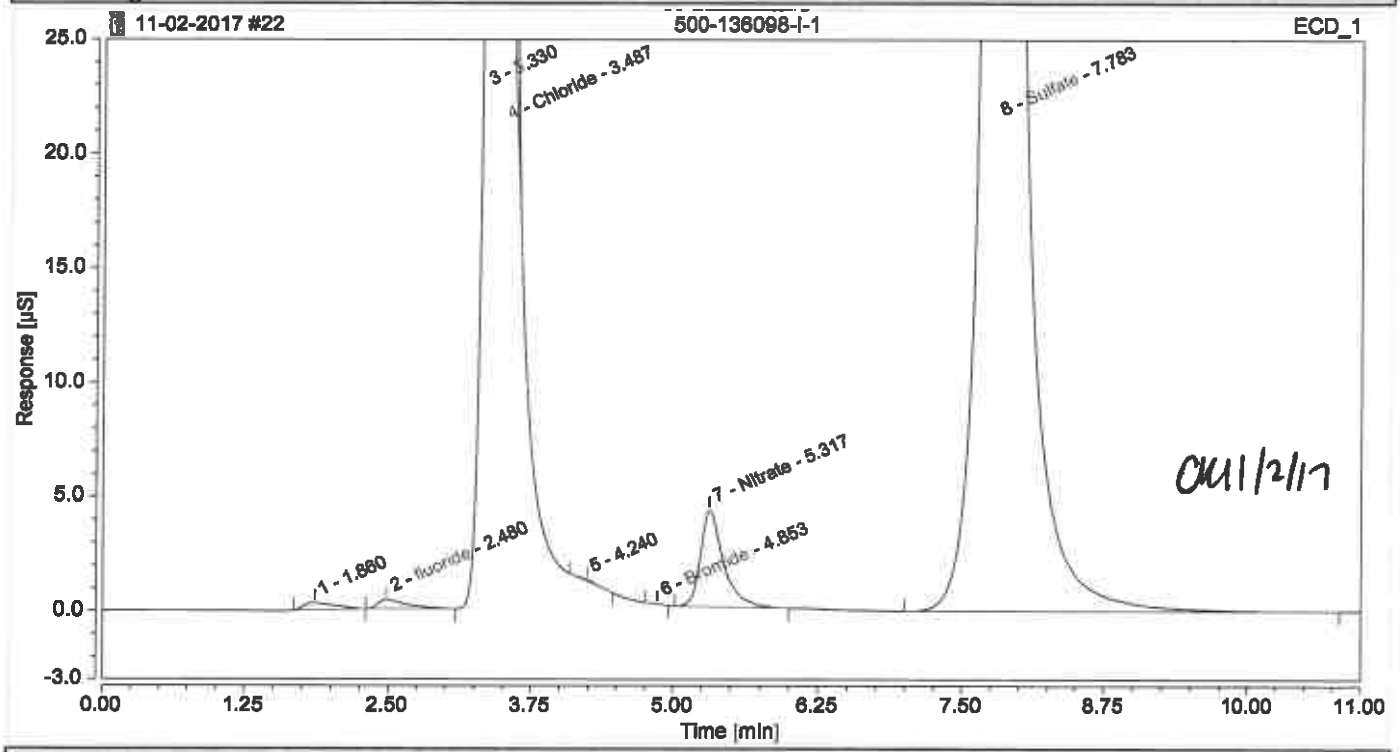
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.03477	0.109	0.82	0.54	n.a.
2	fluoride VL	2.457	0.00134	0.009	0.03	0.04	n.a.
3	Chloride OL	3.387	2.95129	16.407	69.19	80.51	391.4353
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.827	1.27800	3.855	29.96	18.91	203.8191
Total:			**4.265**	**20.380**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136098-I-1**	*Run Time (min):*	**11.00**
Vial Number:	**RC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 14:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

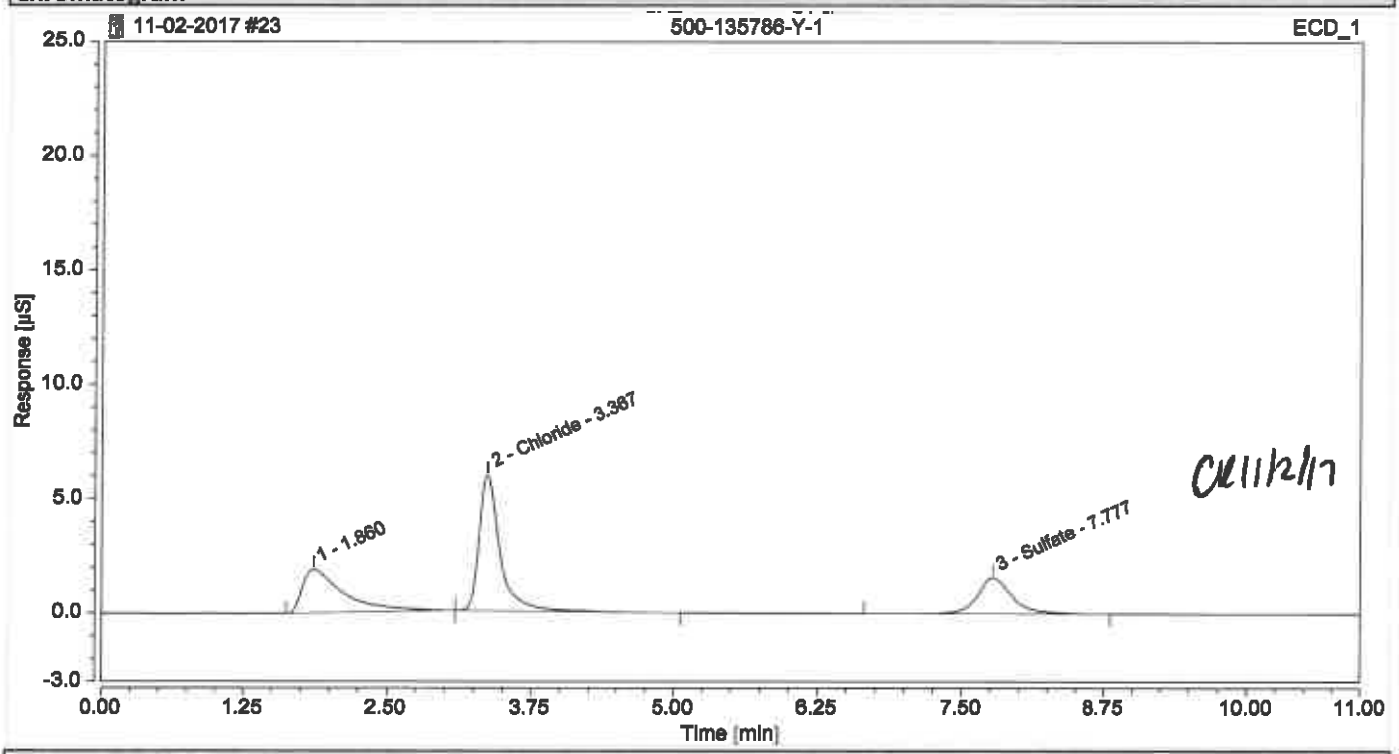
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.09573	0.312	0.17	0.10	n.a.
2	fluoride	2.480	0.11392	0.398	0.20	0.13	0.2534
3		3.330	0.02658	0.979	0.05	0.33	n.a.
4	Chloride	3.487	22.19132	183.815	38.49	61.45	58.1771
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.240	0.01057	0.056	0.02	0.02	n.a.
6	Bromide	4.853	0.00207	0.020	0.00	0.01	0.0887
7	Nitrate	5.317	0.98430	4.227	1.71	1.41	1.0477
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	7.783	34.23131	109.327	59.37	36.55	113.6927
Total:			**57.656**	**299.135**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135786-Y-1**	*Run Time (min):*	**11.00**
Vial Number:	**RD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 15:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

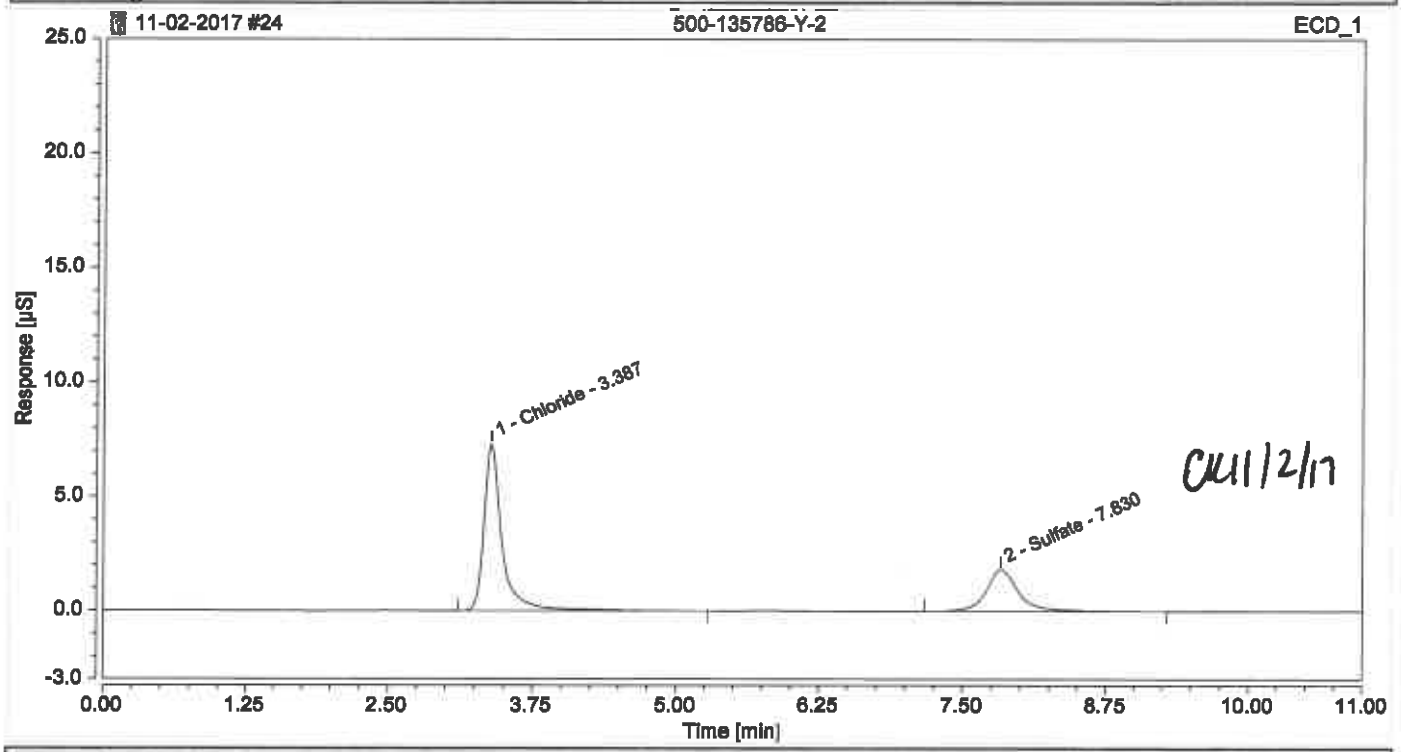
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.79401	1.919	30.47	20.29	n.a.
n.a.	fluoride NC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.367	1.24461	5.961	47.77	63.01	336.2578
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate CL	7.777	0.56691	1.581	21.76	16.71	171.0992
Total:			**2.606**	**9.460**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135786-Y-2**	*Run Time (min):*	**11.00**
Vial Number:	**RD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 15:22**	*Sample Weight:*	**1.0000**

Chromatogram



CM 11/2/17

Integration Results

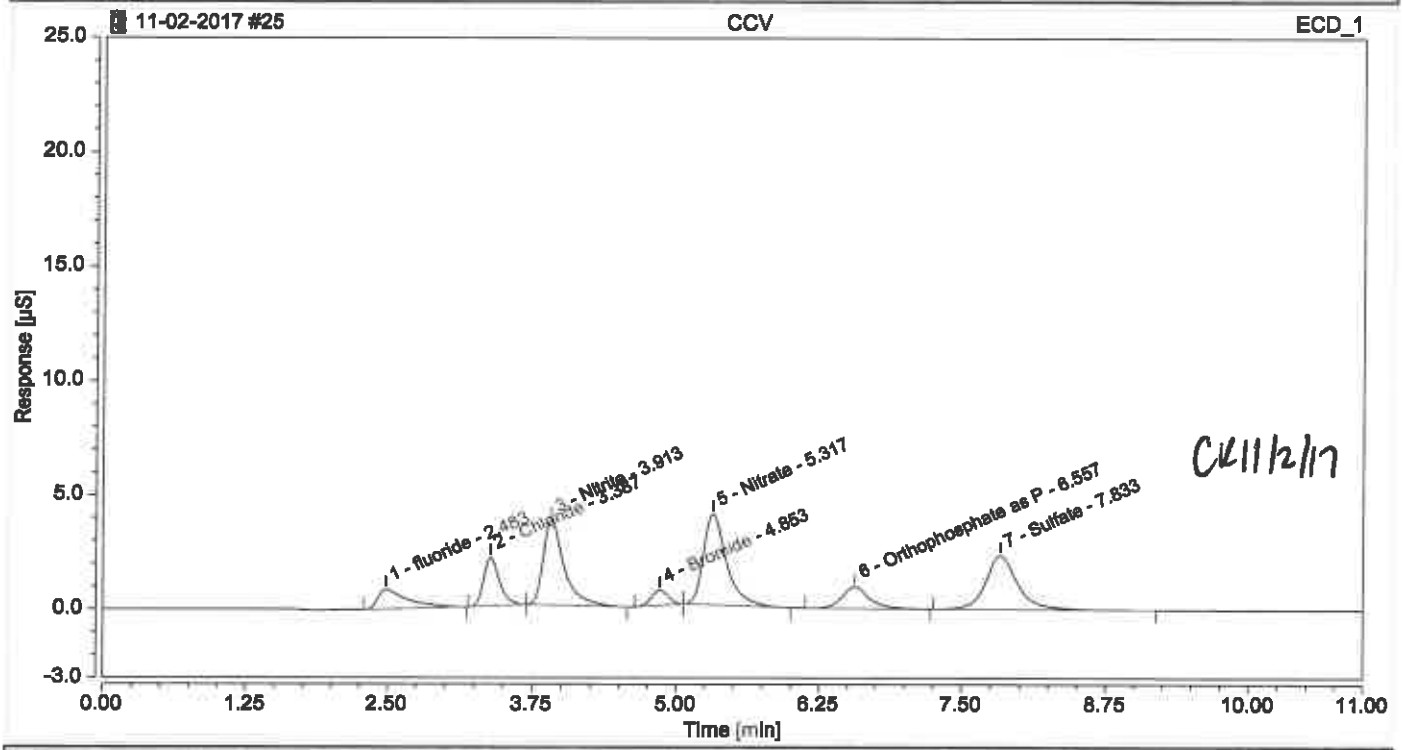
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.387	1.32937	7.314	68.54	80.04	358.4375
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.830	0.61031	1.824	31.46	19.96	185.5370
Total:			**1.940**	**9.137**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 15:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

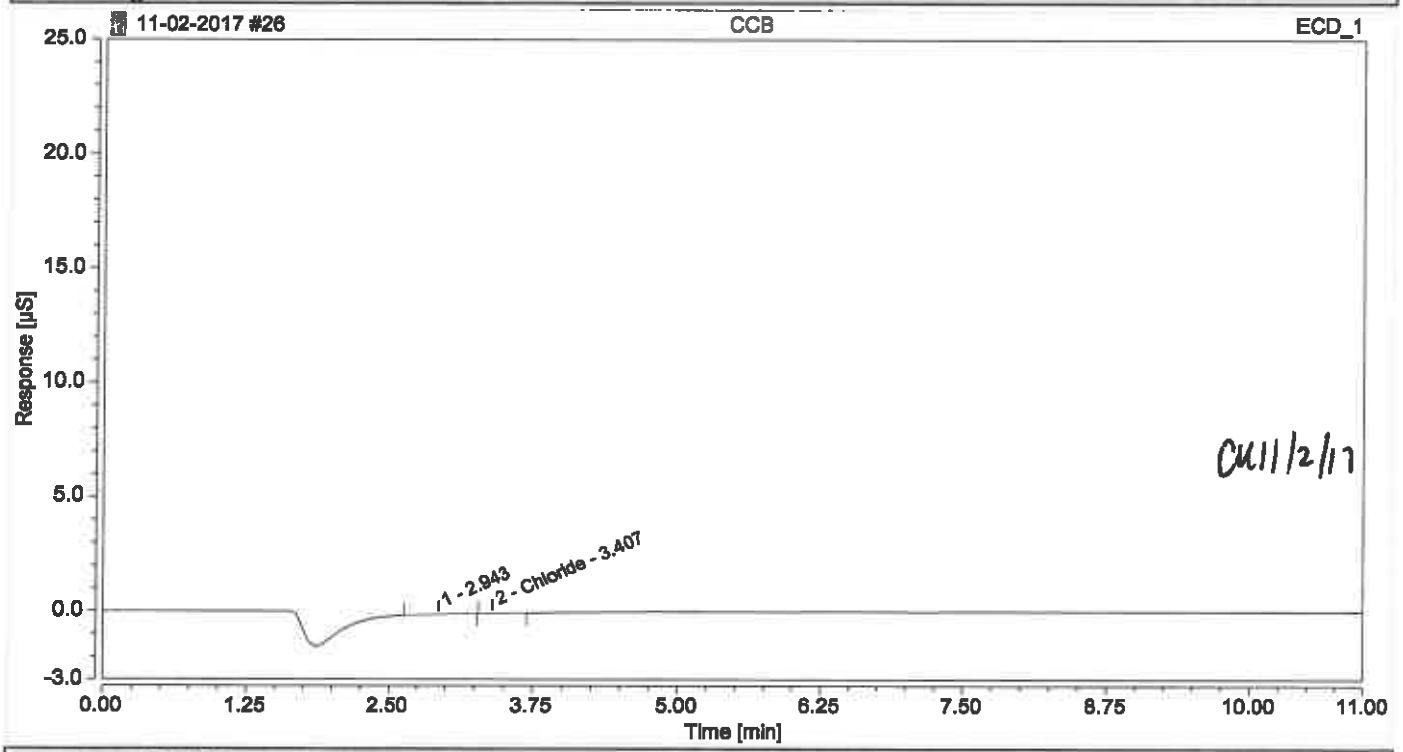
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.483	0.25832	0.867	7.54	5.90	0.6095
2	Chloride	3.387	0.33770	2.136	9.86	14.55	0.9893
3	Nitrite	3.913	0.76916	3.734	22.45	25.42	0.9795
4	Bromide	4.853	0.11298	0.664	3.30	4.52	1.0484
5	Nitrate	5.317	0.91994	3.983	26.85	27.12	0.9834
6	Orthophosphate as P	6.557	0.26889	0.943	7.85	6.42	1.0025
7	Sulfate	7.833	0.75930	2.361	22.16	16.07	2.3510
Total:			**3.426**	**14.687**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 15:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

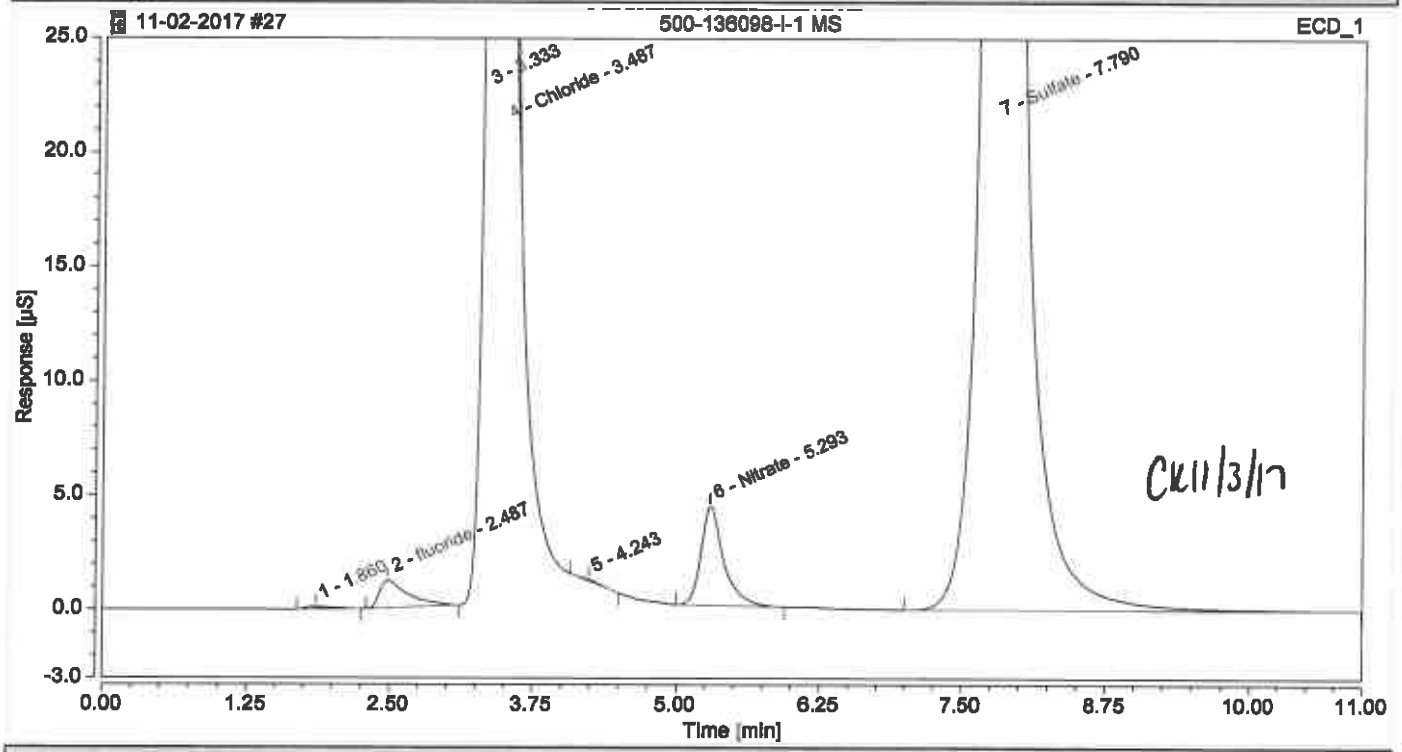
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.943	0.00546	0.012	75.84	56.06	n.a.
2	Chloride	3.407	0.00174	0.010	24.16	43.94	0.1102
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.007**	**0.022**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136098-I-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**RD1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 16:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

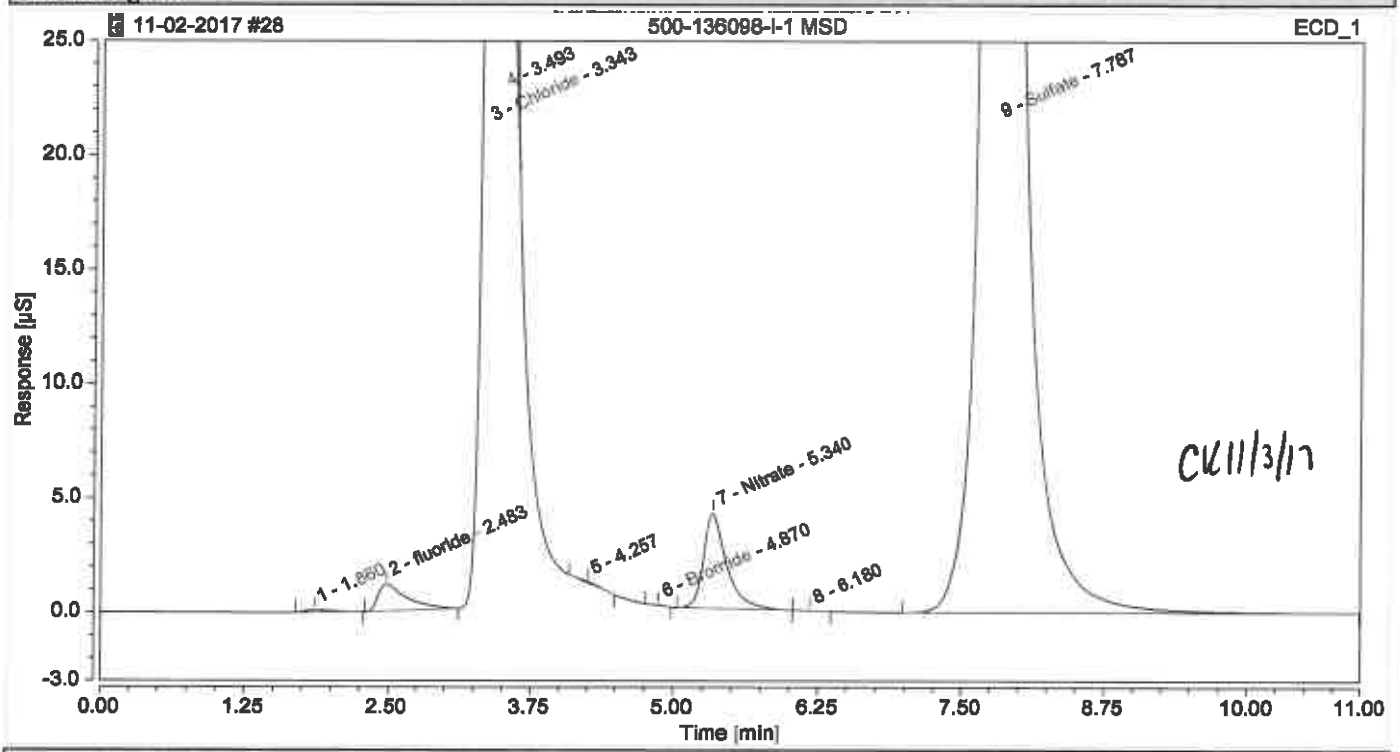
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.02736	0.094	0.05	0.03	n.a.
2	fluoride	2.487	0.34592	1.199	0.60	0.40	0.8256
3		3.333	0.05885	1.835	0.10	0.61	n.a.
4	Chloride	3.487	21.56308	184.104	37.64	60.80	56.5331
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.243	0.01385	0.063	0.02	0.02	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Nitrate	5.293	0.99491	4.347	1.74	1.44	1.0583
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	7.790	34.28117	111.181	59.84	36.71	113.8586
Total:			**57.285**	**302.823**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-136098-I-1 MSD	*Run Time (min):*	11.00
Vial Number:	RD2	*Injection Volume:*	25.00
Injection Type:	Spiked	*Channel:*	ECD_1
Calibration Level:	03	*Comments:*	F
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	1.0000
Injection Date/Time:	02/Nov/17 16:13	*Sample Weight:*	1.0000

Chromatogram



Integration Results

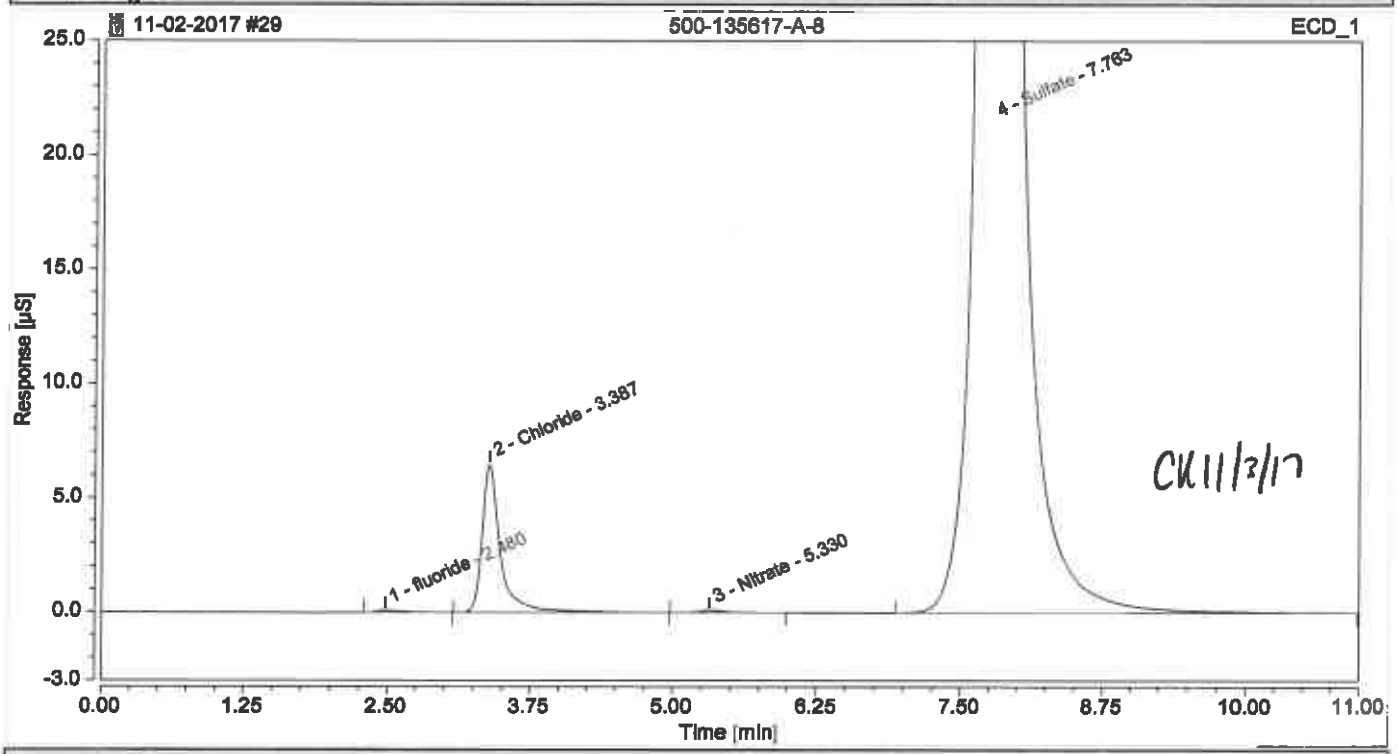
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.02589	0.089	0.05	0.03	n.a.
2	fluoride	2.483	0.34160	1.192	0.60	0.40	0.8149
3	Chloride	3.343	0.04878	1.578	0.09	0.53	0.2333
4		3.493	21.10946	180.857	37.21	60.60	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.257	0.01296	0.062	0.02	0.02	n.a.
6	Bromide	4.870	0.00286	0.026	0.01	0.01	0.0956
7	Nitrate	5.340	0.96722	4.159	1.71	1.39	1.0307
8		6.180	0.00197	0.011	0.00	0.00	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	Sulfate	7.787	34.21341	110.490	60.32	37.02	113.6332
Total:			**56.724**	**298.463**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-8**	*Run Time (min):*	**11.00**
Vial Number:	**RD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**02/Nov/17 16:25**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

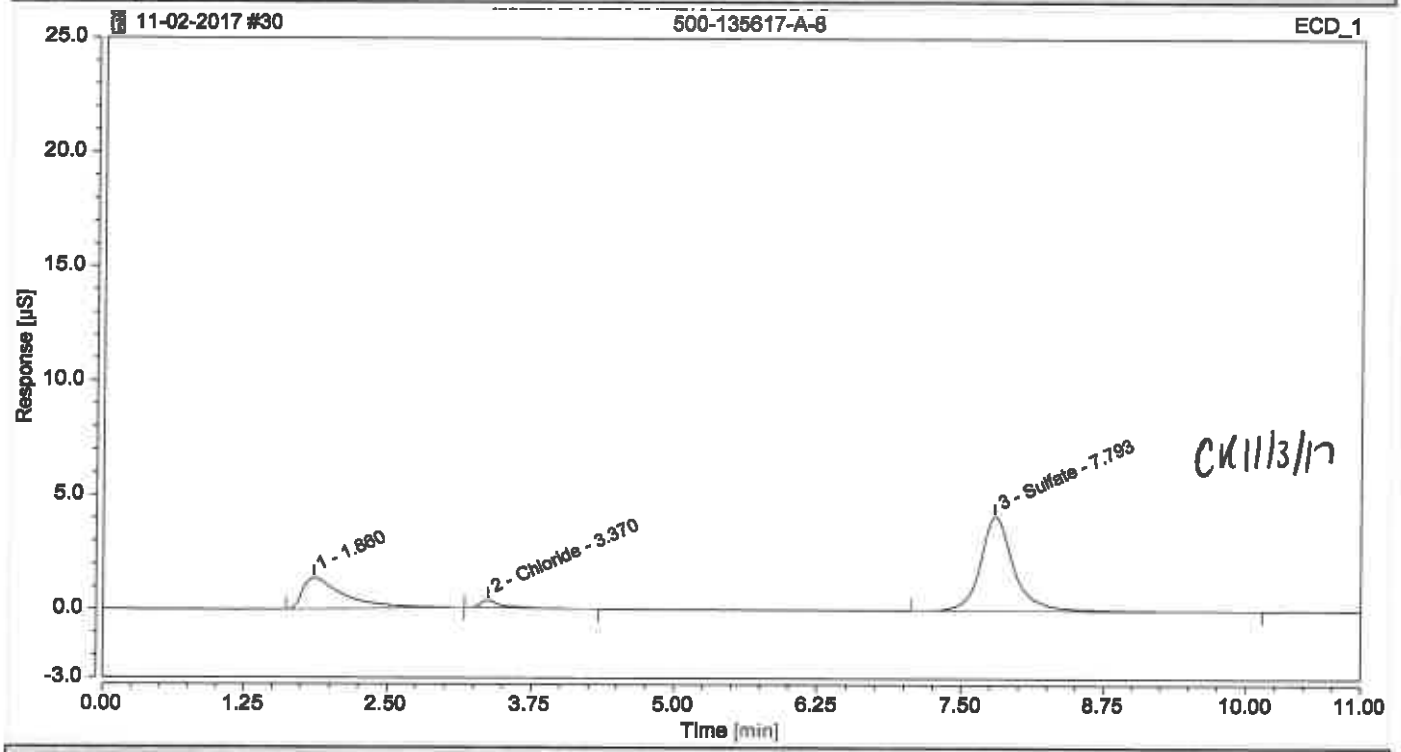
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.480	0.02673	0.093	0.07	0.07	0.3832
2	Chloride	3.387	1.20923	6.504	3.06	5.04	32.7000
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.330	0.02931	0.113	0.07	0.09	0.9332
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.763	38.22597	122.315	96.80	94.80	1269.8061
Total:			**39.491**	**129.025**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-8**	*Run Time (min):*	**11.00**
Vial Number:	**RD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**02/Nov/17 16:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

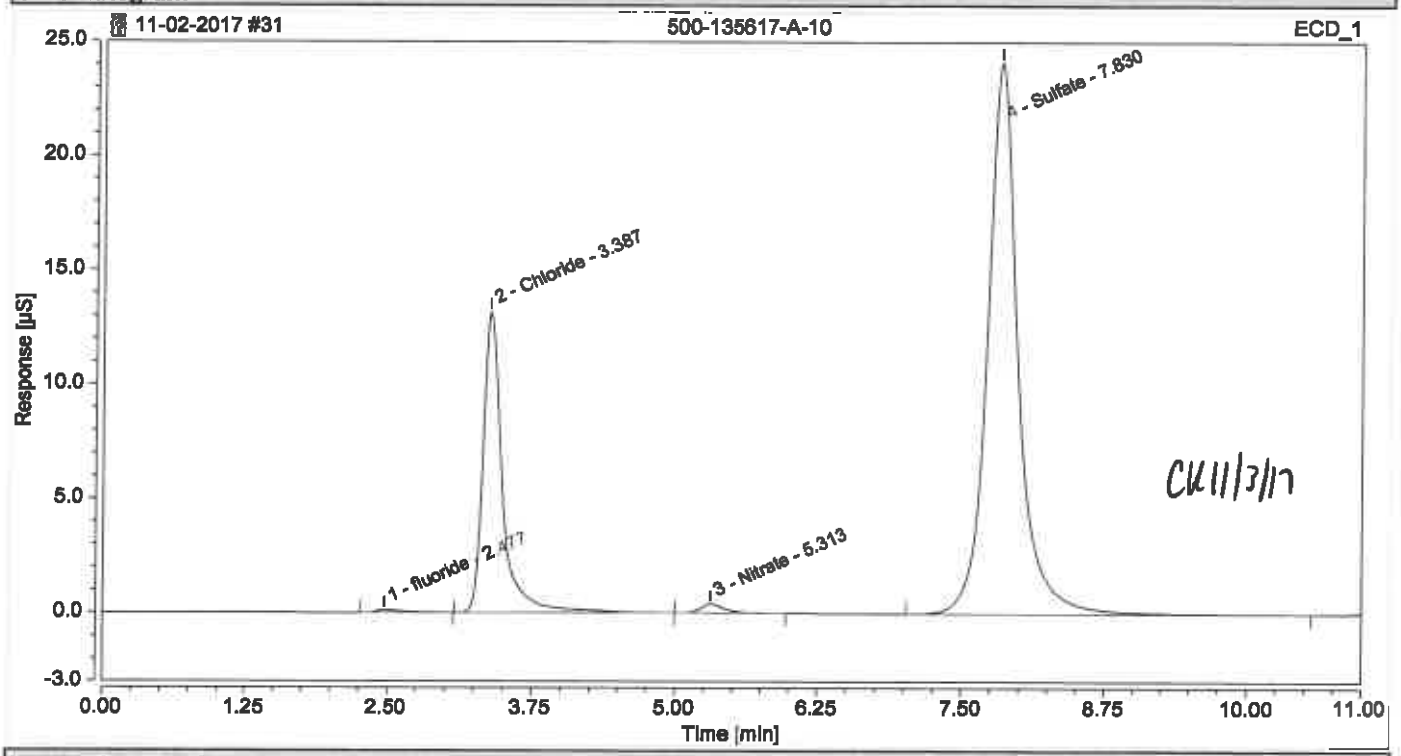
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.57116	1.364	27.58	23.43	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride KE	3.370	0.07360	0.323	3.55	5.55	59.6450
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.793	1.42646	4.135	68.87	71.02	914.0439
Total:			**2.071**	**5.822**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-10**	*Run Time (min):*	**11.00**
Vial Number:	**RD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**02/Nov/17 16:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

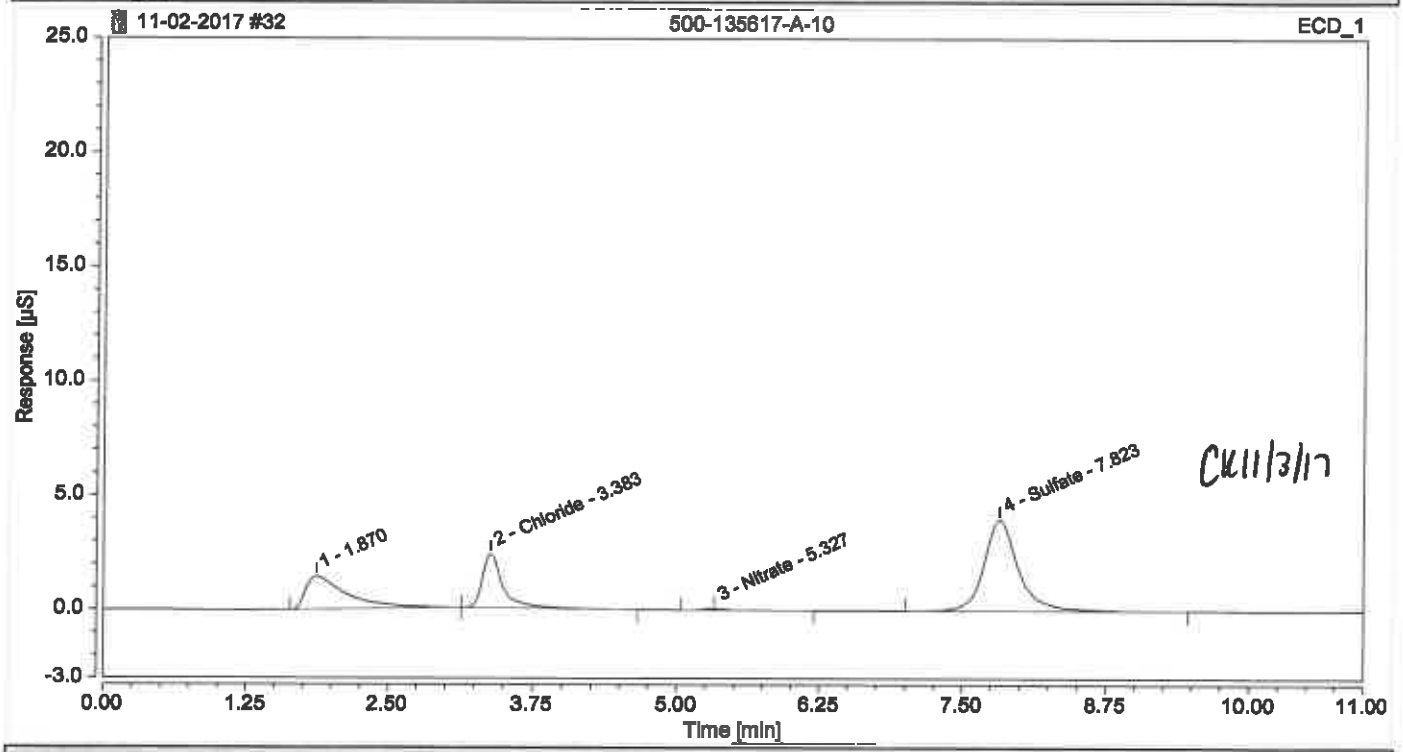
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.477	0.03450	0.124	0.34	0.33	0.5748
2	Chloride	3.387	2.55490	13.166	25.08	34.80	67.9142
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.313	0.09403	0.398	0.92	1.05	1.5800
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.830	7.50405	24.150	73.66	63.82	247.8678
Total:			**10.187**	**37.838**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-10**	*Run Time (min):*	**11.00**
Vial Number:	**RD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**02/Nov/17 17:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

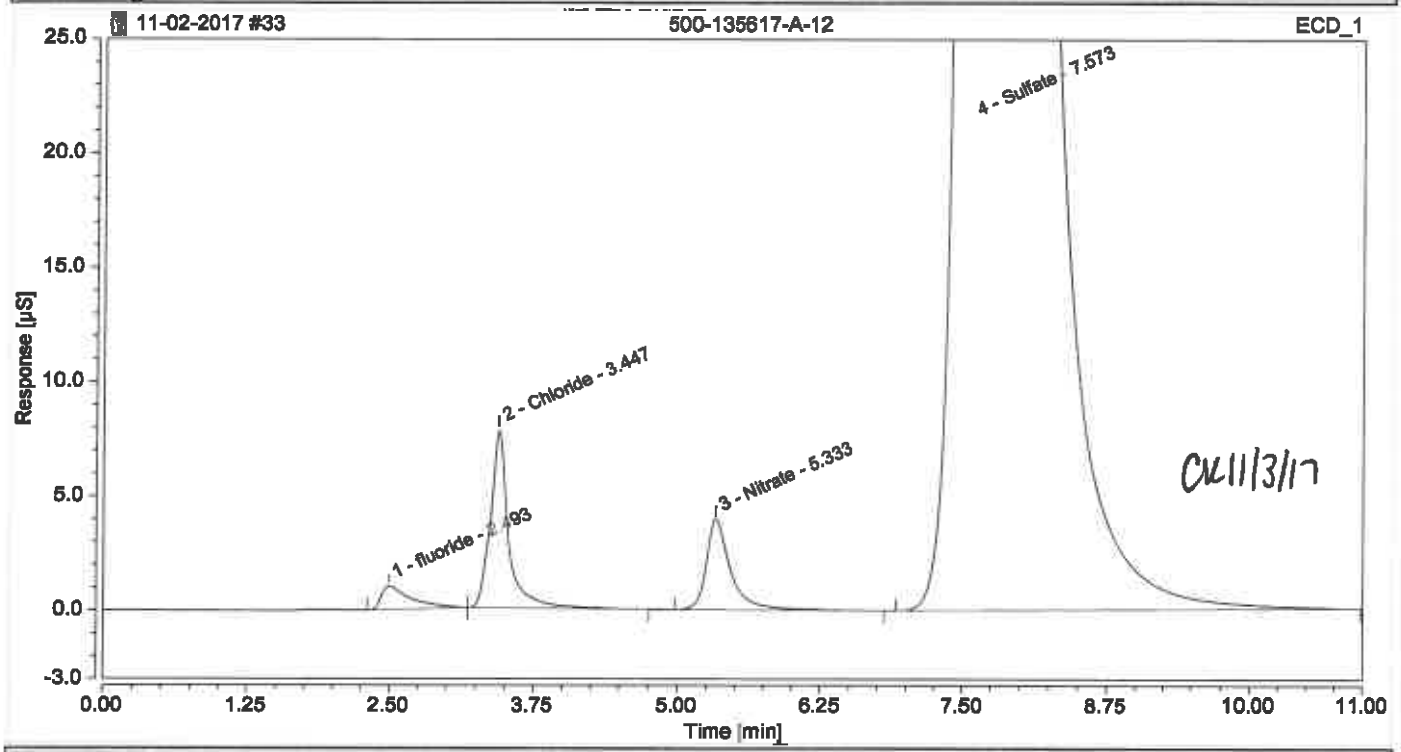
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.61667	1.453	24.44	18.42	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride KE	3.383	0.49320	2.366	19.54	30.00	69.8123
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.327	0.02012	0.075	0.80	0.95	4.2063
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.823	1.39342	3.994	55.22	50.64	223.0157
Total:			**2.523**	**7.888**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-12**	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**02/Nov/17 17:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

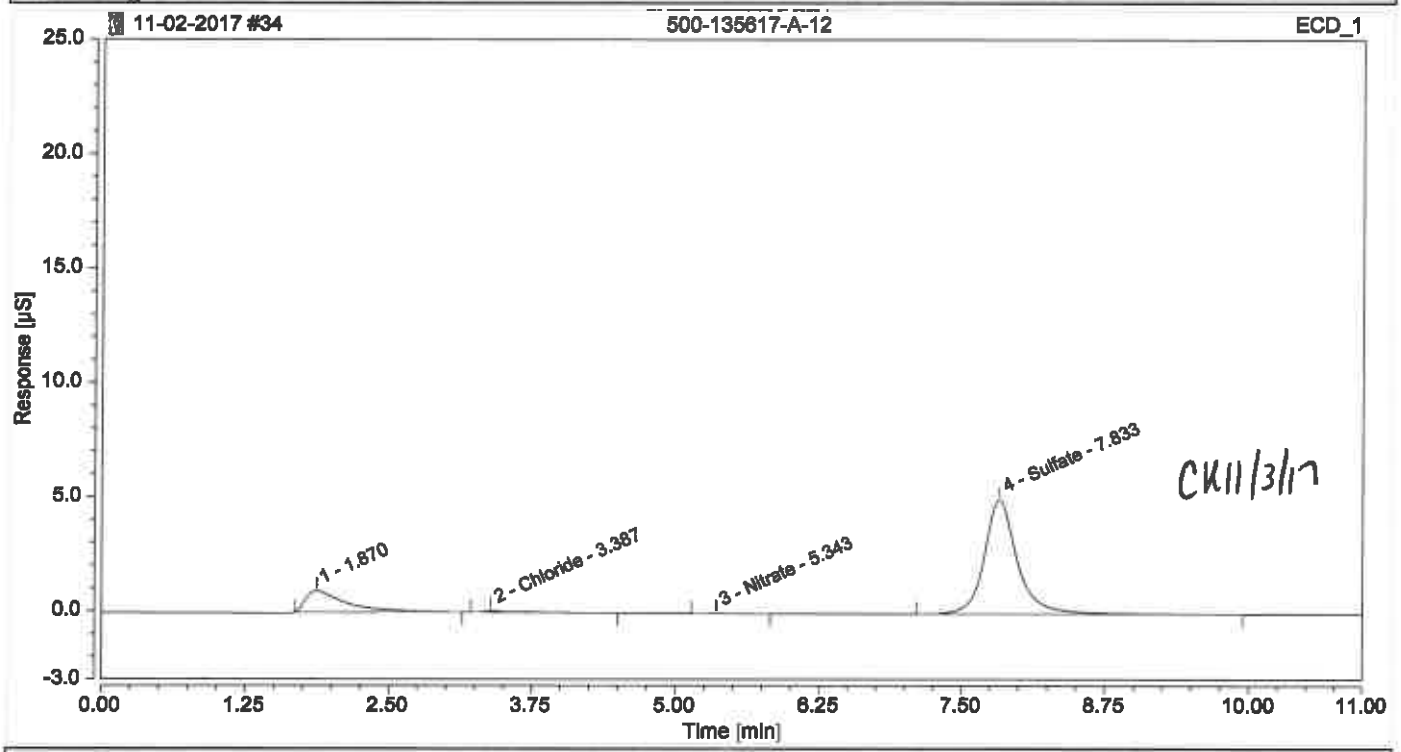
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.493	0.30934	1.038	0.13	0.17	1.4707
2	Chloride	3.447	1.43202	7.807	0.58	1.28	7.7060
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.333	0.99494	4.012	0.41	0.66	2.1168
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.573	242.63261	597.388	98.88	97.89	1613.8431
Total:			**245.369**	**610.246**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-12**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**02/Nov/17 17:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

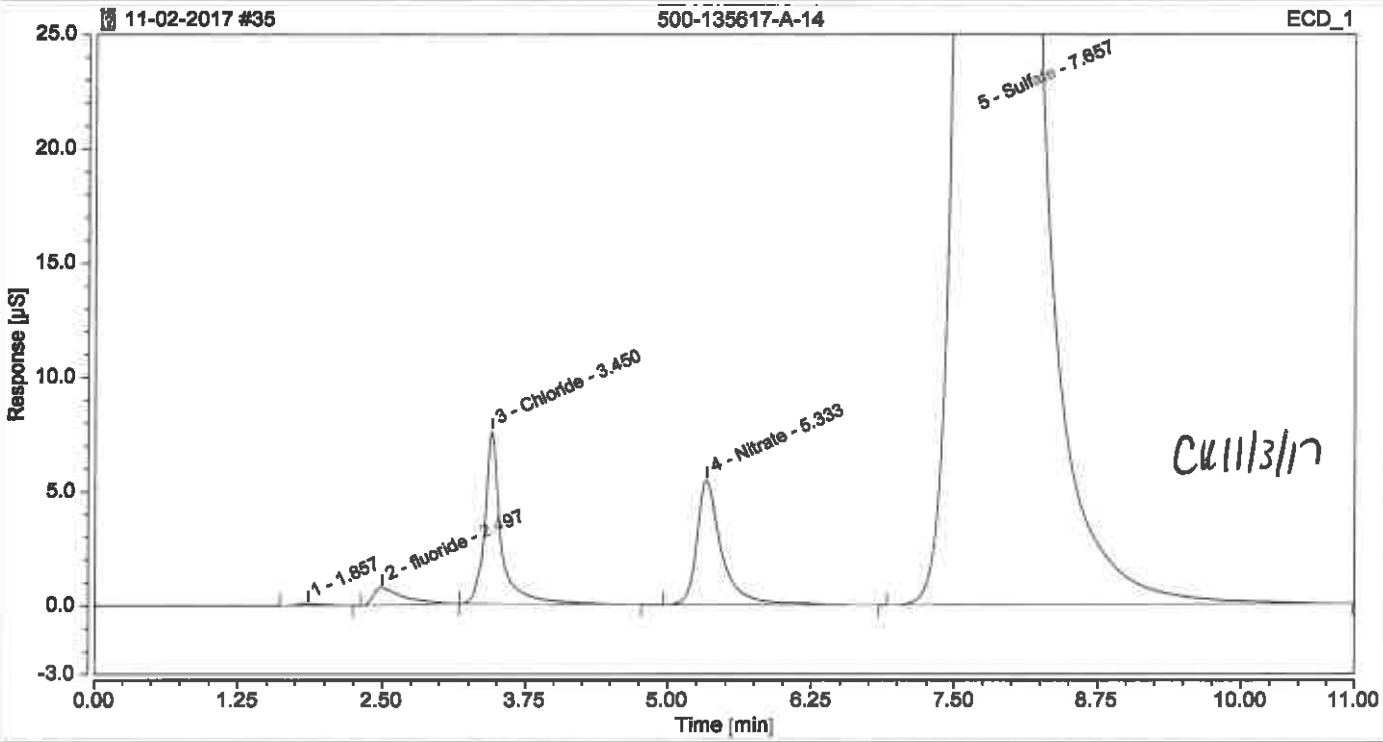
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.37912	0.937	17.98	15.49	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride KE	3.387	0.02652	0.069	1.26	1.14	35.0004
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.343	0.00780	0.031	0.37	0.51	14.3625
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.833	1.69545	5.009	80.40	82.86	1092.9984
Total:			**2.109**	**6.046**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-14**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**02/Nov/17 17:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

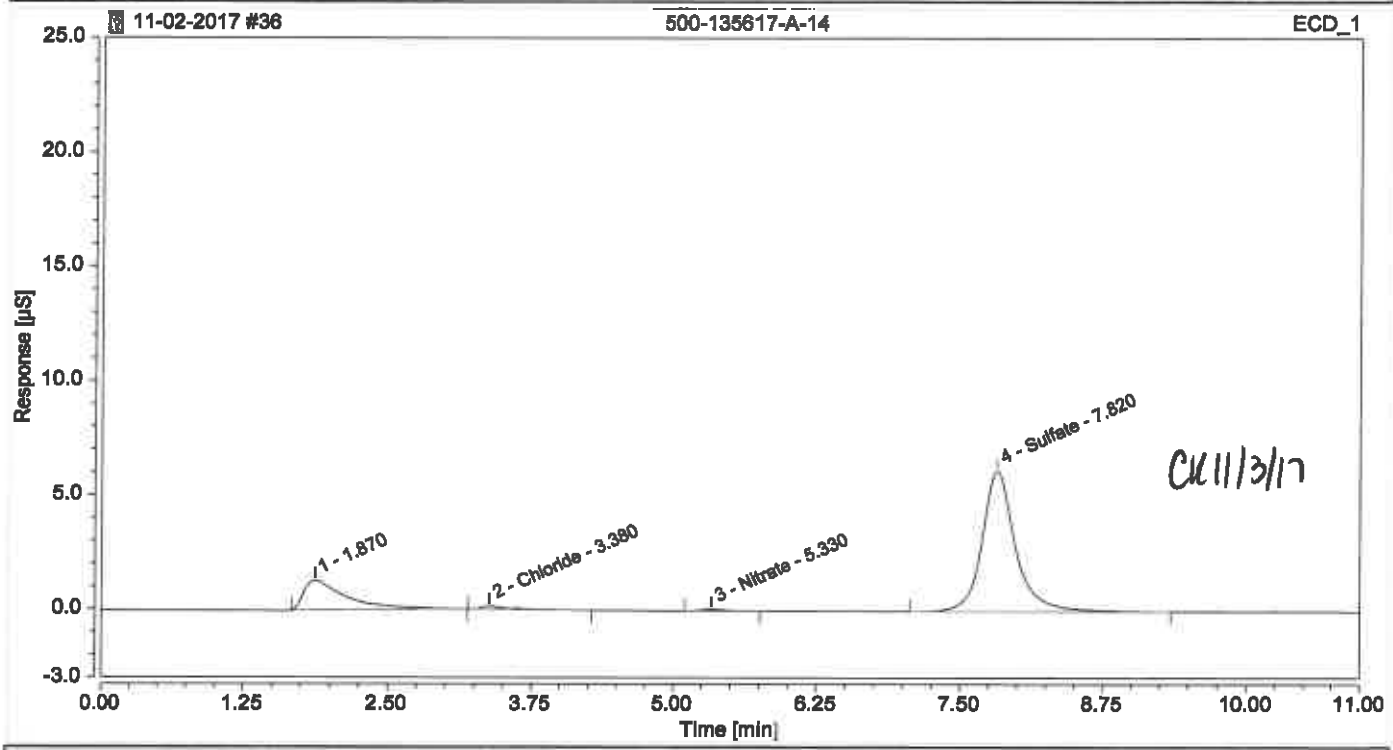
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.857	0.02107	0.071	0.01	0.02	n.a.
2	fluoride	2.497	0.22819	0.765	0.14	0.17	1.0704
3	Chloride	3.450	1.31362	7.546	0.83	1.72	7.0863
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.333	1.35976	5.474	0.86	1.25	2.8460
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate OK	7.657	155.91527	424.915	98.16	96.84	1036.9277
Total:			**158.838**	**438.771**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-14**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 17:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

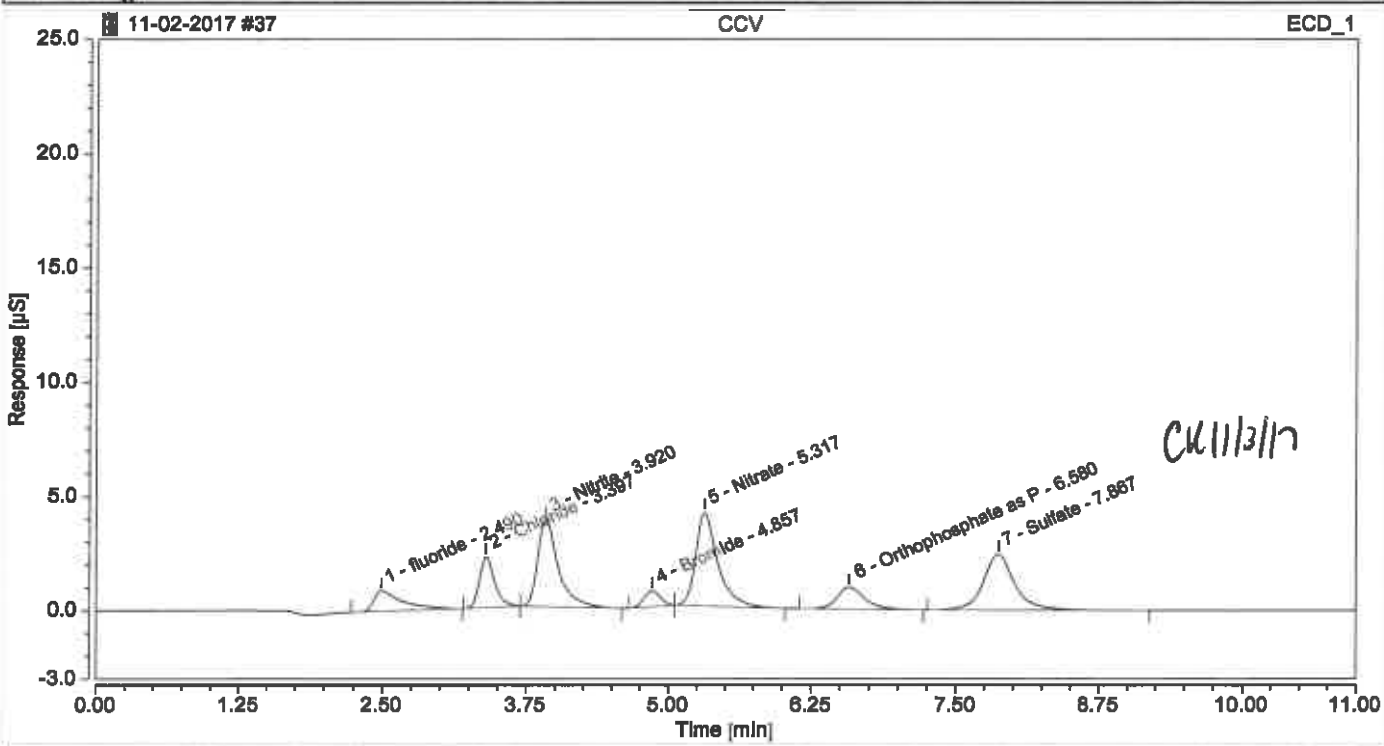
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.54958	1.295	20.29	16.87	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride KE	3.380	0.03570	0.126	1.32	1.64	19.9031
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.330	0.01991	0.086	0.74	1.12	8.3923
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.820	2.10339	6.166	77.66	80.37	682.1965
Total:			**2.709**	**7.672**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 18:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

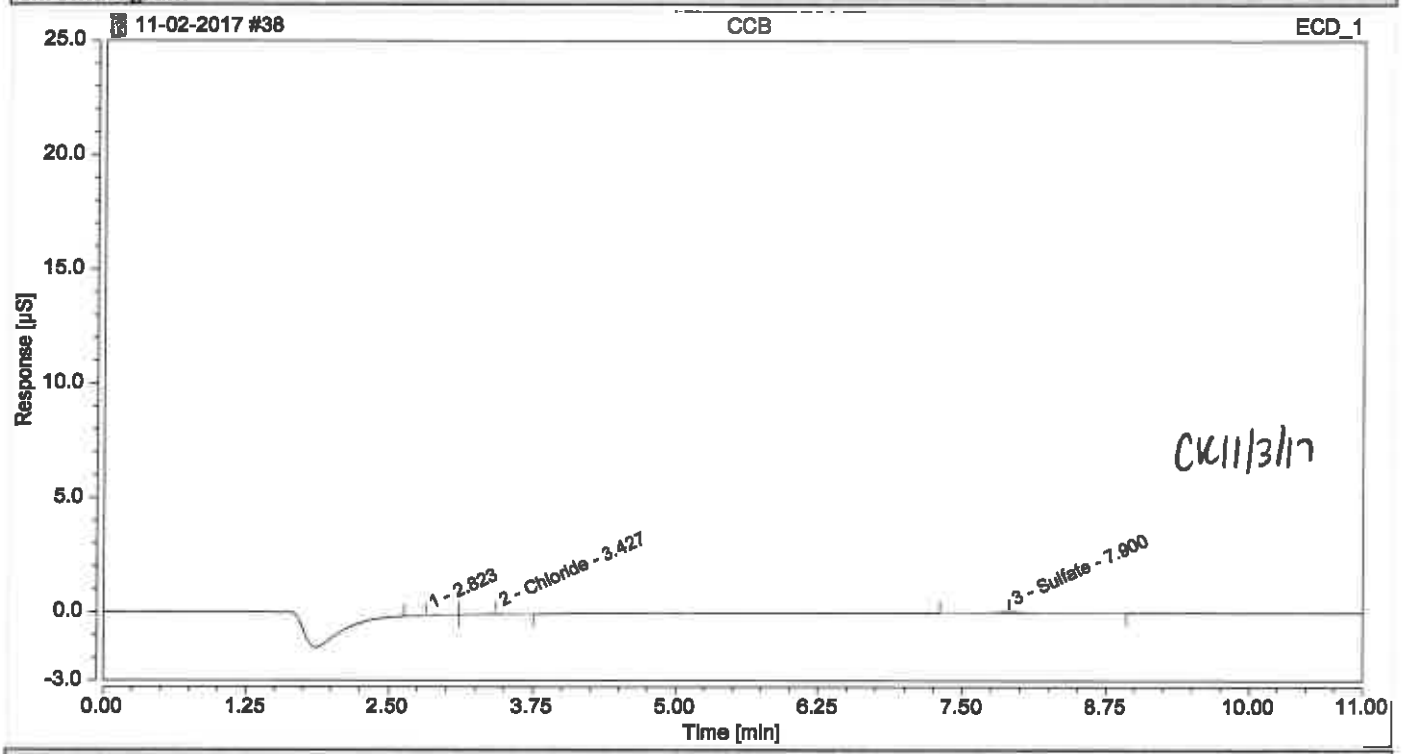
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.490	0.26413	0.896	7.62	5.92	0.6238
2	Chloride	3.397	0.34099	2.224	9.84	14.68	0.9979
3	Nitrite	3.920	0.76723	3.822	22.13	25.22	0.9772
4	Bromide	4.857	0.11457	0.686	3.30	4.52	1.0621
5	Nitrate	5.317	0.93466	4.109	26.96	27.12	0.9981
6	Orthophosphate as P	6.580	0.26666	0.962	7.69	6.35	0.9951
7	Sulfate	7.867	0.77836	2.453	22.45	16.19	2.4144
Total:			**3.467**	**15.151**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 18:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

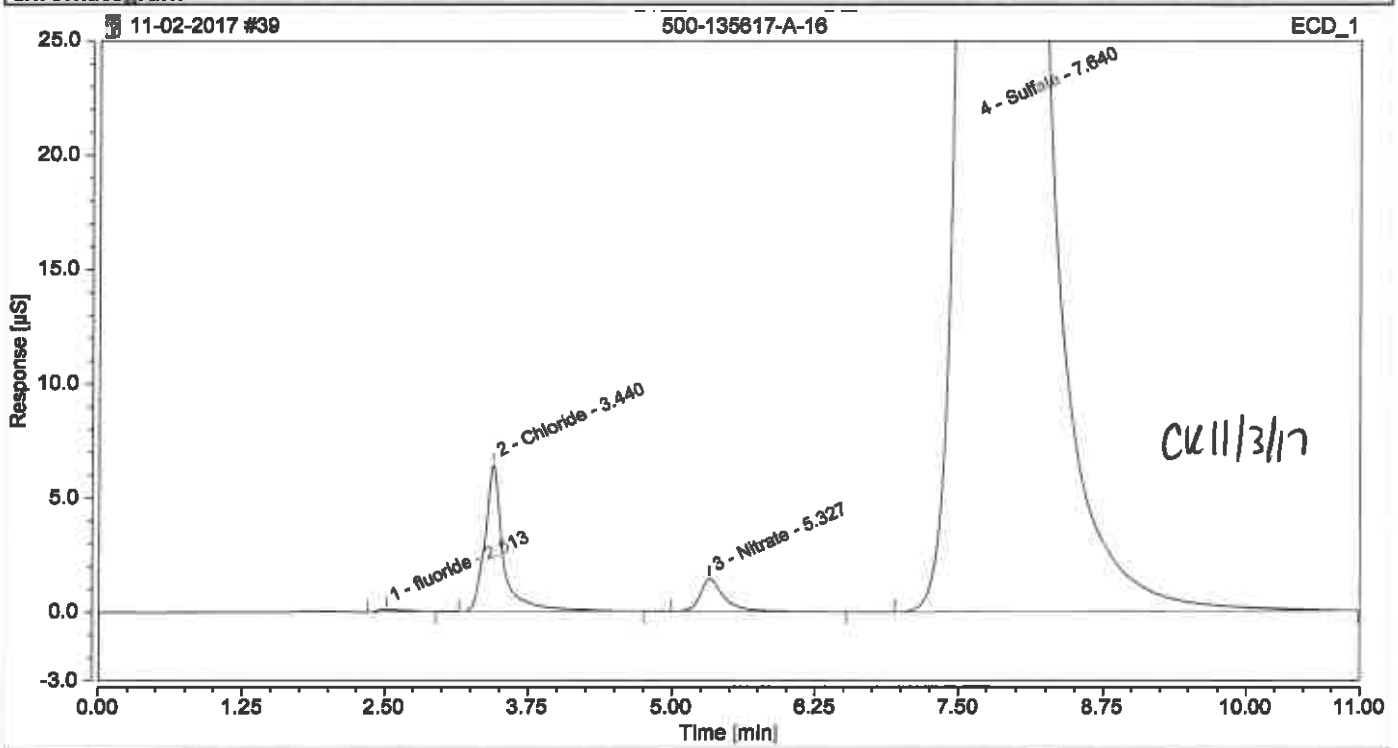
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.823	0.00294	0.010	7.74	10.55	n.a.
2	Chloride	3.427	0.00869	0.032	22.88	33.51	0.1283
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.900	0.02633	0.054	69.38	55.94	n.a.
Total:			**0.038**	**0.096**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-16**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**02/Nov/17 18:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

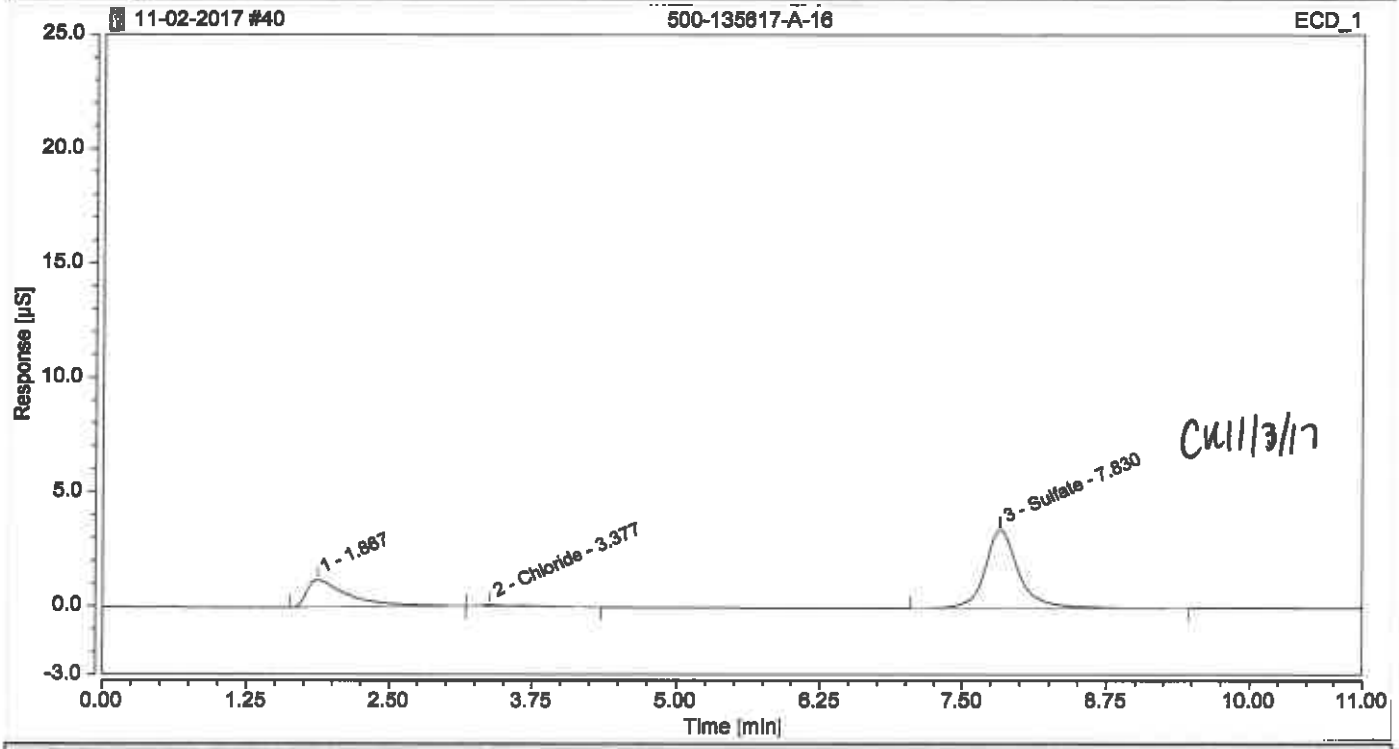
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.02985	0.110	0.02	0.02	0.0920
2	Chloride	3.440	1.19901	6.429	0.70	1.39	6.4865
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.327	0.35222	1.432	0.21	0.31	0.8321
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.640	169.73144	456.020	99.08	98.28	1128.8443
Total:			**171.313**	**463.991**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-16**	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**02/Nov/17 18:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

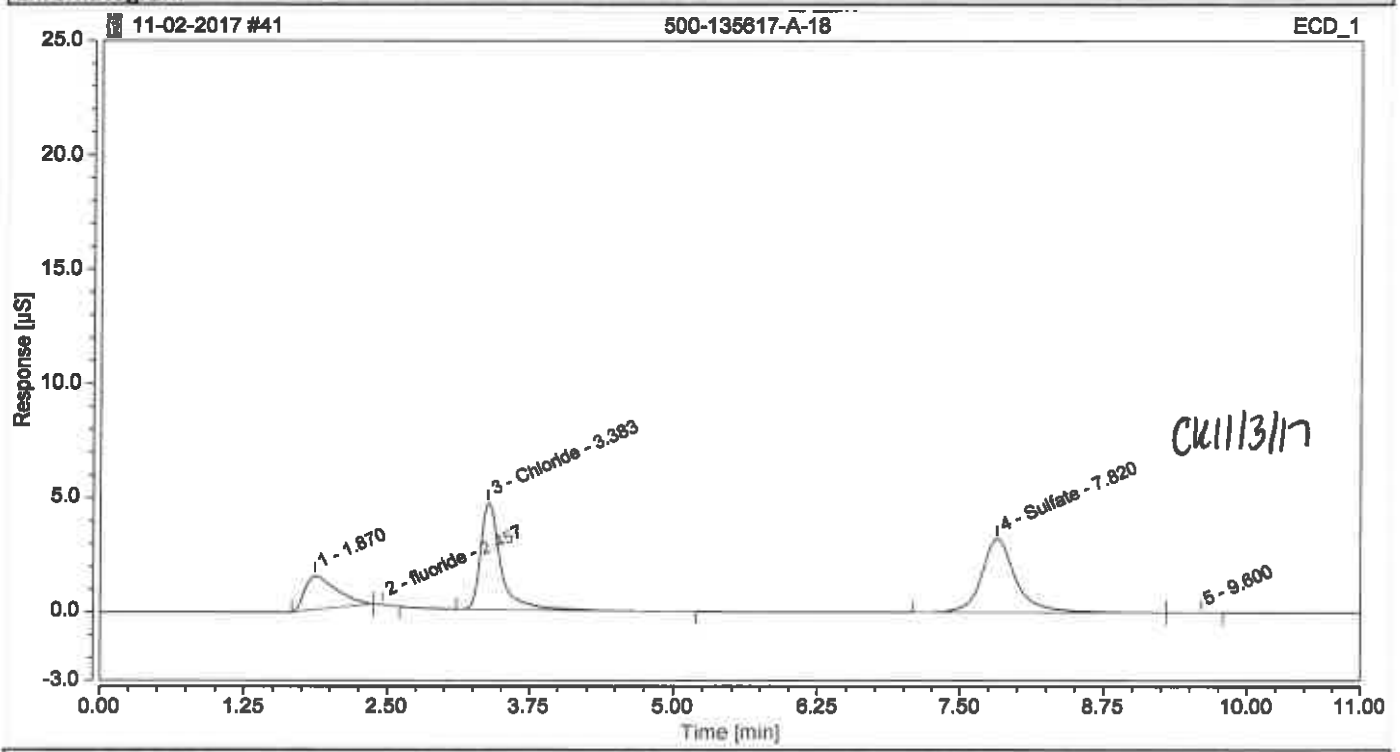
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.867	0.50163	1.187	29.53	25.35	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride RE	3.377	0.02608	0.062	1.54	1.32	34.7745
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.830	1.17072	3.434	68.93	73.32	743.9043
Total:			**1.698**	**4.683**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135617-A-18**	*Run Time (min):*	**11.00**
Vial Number:	**RE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**02/Nov/17 18:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

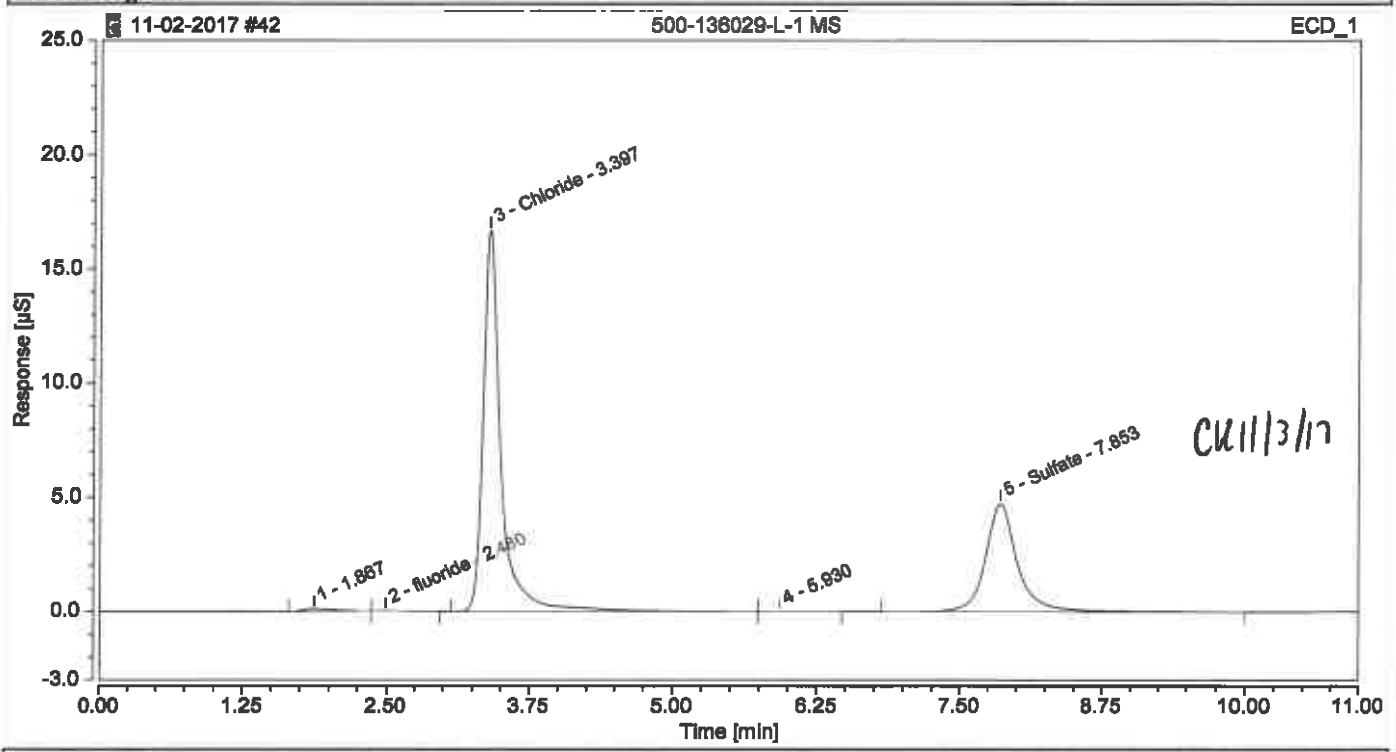
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.47479	1.471	18.33	15.62	n.a.
2	fluoride	2.457	0.00184	0.016	0.07	0.17	n.a.
3	Chloride	3.383	0.98807	4.685	38.14	49.74	67.2811
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.820	1.12396	3.239	43.39	34.39	89.0997
5		9.600	0.00201	0.008	0.08	0.08	n.a.
Total:			**2.591**	**9.419**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 19:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

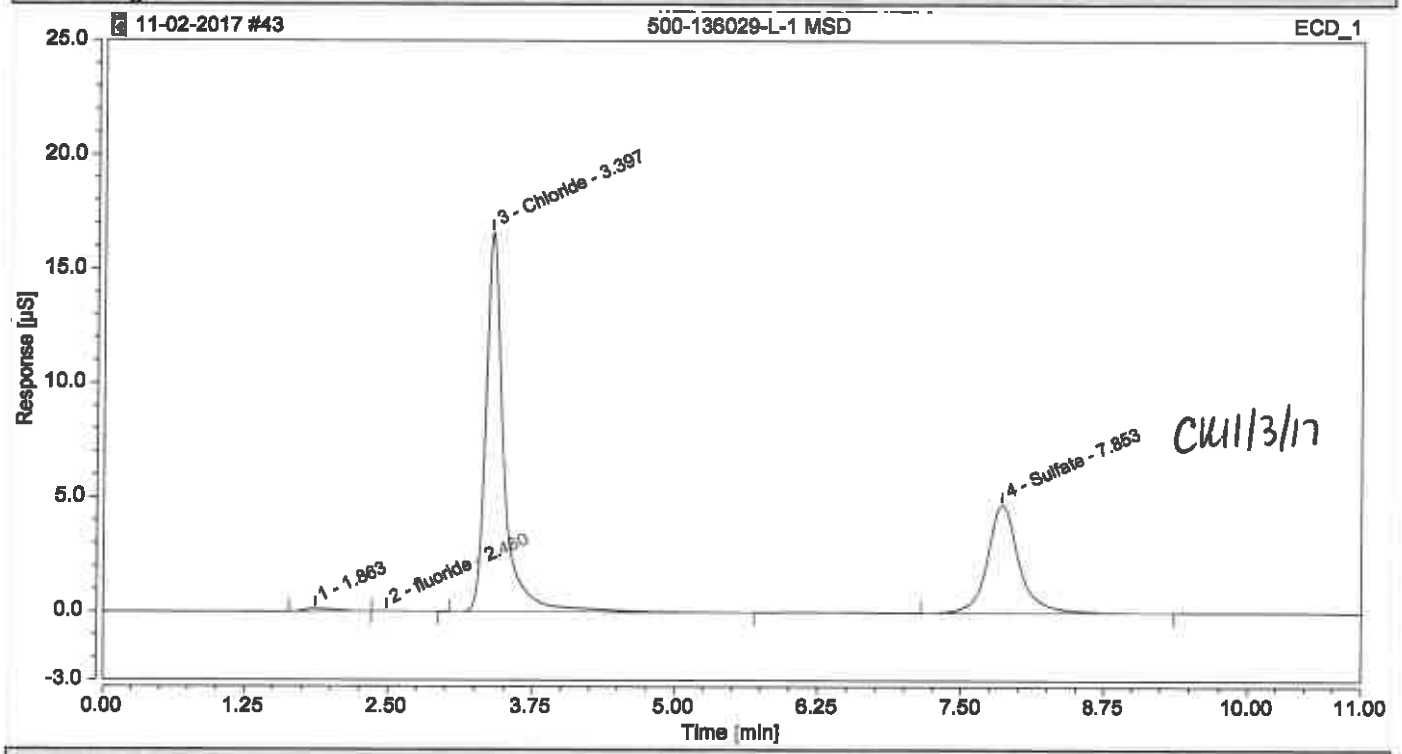
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.867	0.03920	0.124	0.84	0.57	n.a.
2	fluoride	2.480	0.00326	0.016	0.07	0.07	n.a.
3	Chloride AD	3.397	3.03693	16.711	65.40	77.38	161.0566
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		5.930	0.00279	0.007	0.06	0.03	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	7.853	1.56166	4.740	33.63	21.95	100.3987
Total:			**4.644**	**21.596**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136029-L-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 19:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

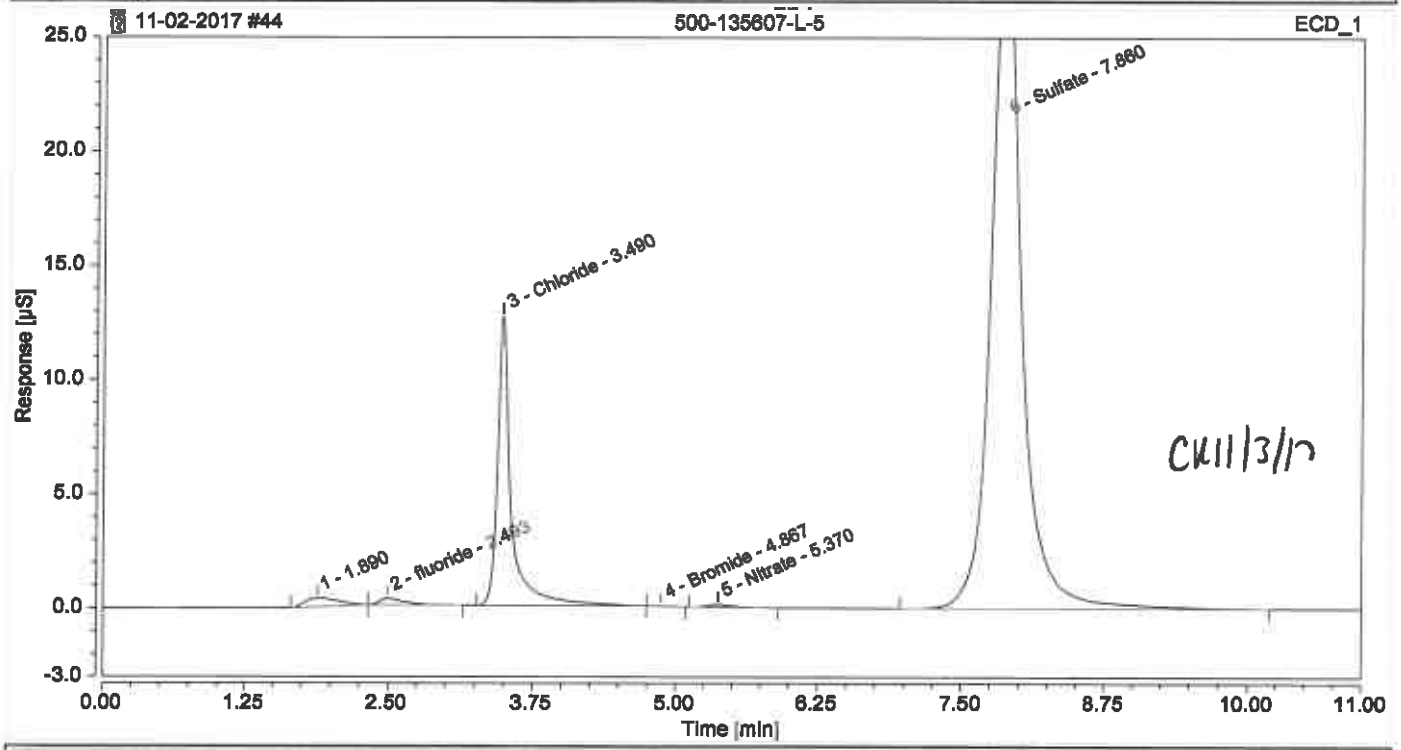
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.03820	0.121	0.83	0.56	n.a.
2	fluoride	2.480	0.00325	0.016	0.07	0.08	n.a.
3	Chloride AD	3.397	3.02208	16.624	65.80	77.34	160.2791
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.853	1.52917	4.733	33.30	22.02	98.2377
Total:			**4.593**	**21.494**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-5**	*Run Time (min):*	**11.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 19:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

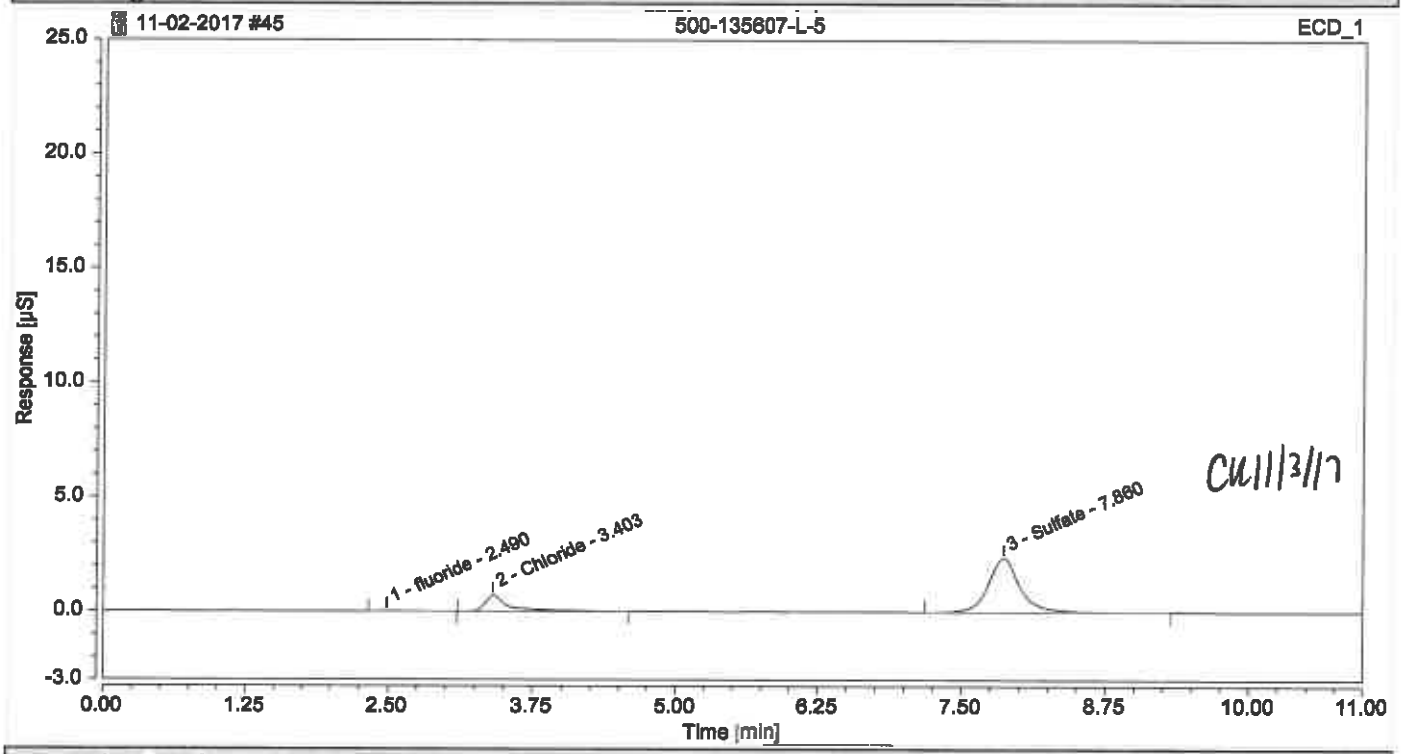
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.890	0.12867	0.381	1.15	0.88	n.a.
2	fluoride	2.493	0.07170	0.282	0.64	0.65	0.1492
3	Chloride	3.490	1.80861	12.693	16.17	29.37	4.8385
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.867	0.00325	0.020	0.03	0.05	0.0989
5	Nitrate	5.370	0.02980	0.129	0.27	0.30	0.0938
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OR	7.860	9.14464	29.711	81.75	68.75	30.2441
Total:			**11.187**	**43.215**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-5**	*Run Time (min):*	**11.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**02/Nov/17 19:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

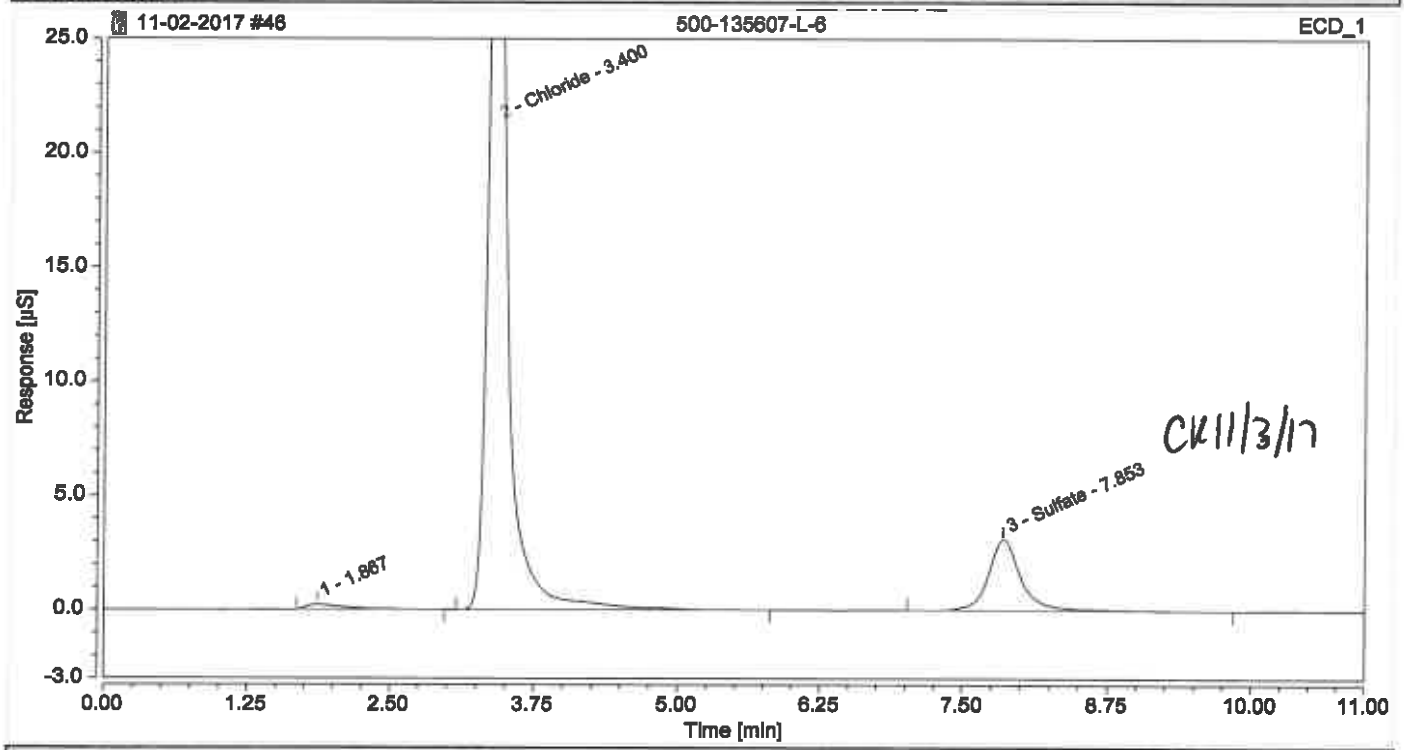
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.490	0.00893	0.034	0.93	1.08	n.a.
2	Chloride RE	3.403	0.17503	0.711	18.31	22.73	5.6364
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.860	0.77198	2.384	80.76	76.19	23.9314
Total:			**0.956**	**3.128**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-6**	*Run Time (min):*	**11.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**02/Nov/17 20:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

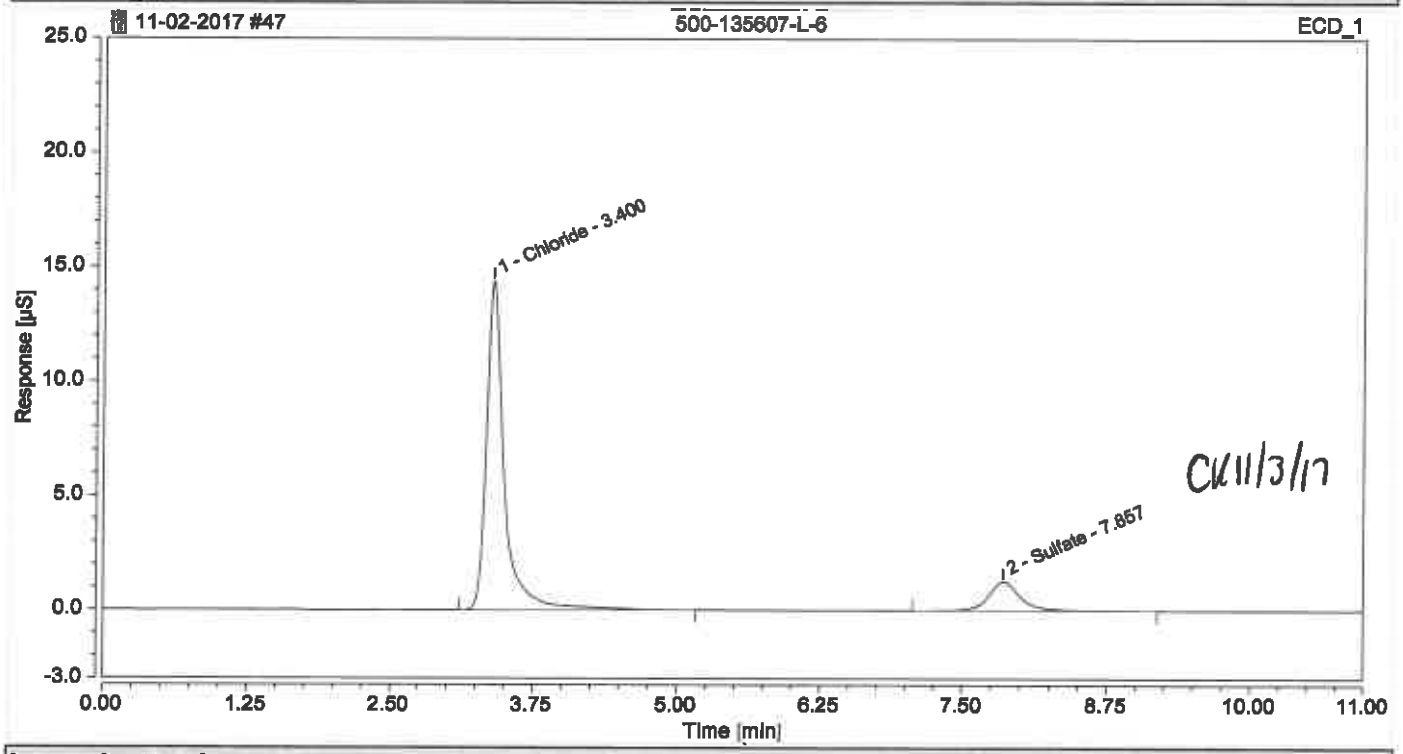
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.867	0.09041	0.220	1.11	0.54	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride OK	3.400	7.02397	37.669	86.16	91.84	369.7266
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.853	1.03774	3.126	12.73	7.62	65.5434
Total:			**8.152**	**41.015**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-6**	*Run Time (min):*	**11.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**02/Nov/17 20:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

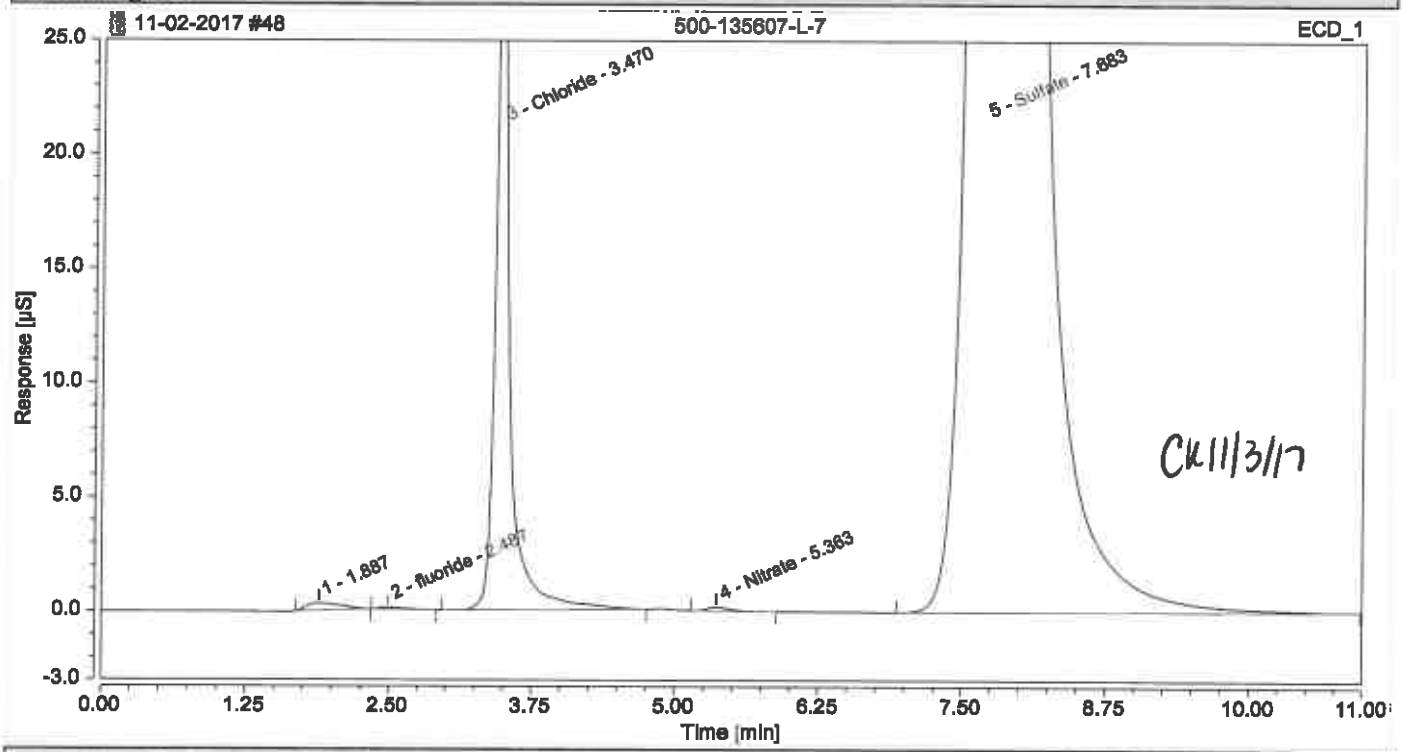
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.400	2.58018	14.402	86.21	91.92	342.8782
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate KE	7.857	0.41276	1.265	13.79	8.08	59.9110
Total:			**2.993**	**15.667**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-7**	*Run Time (min):*	**11.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**02/Nov/17 20:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

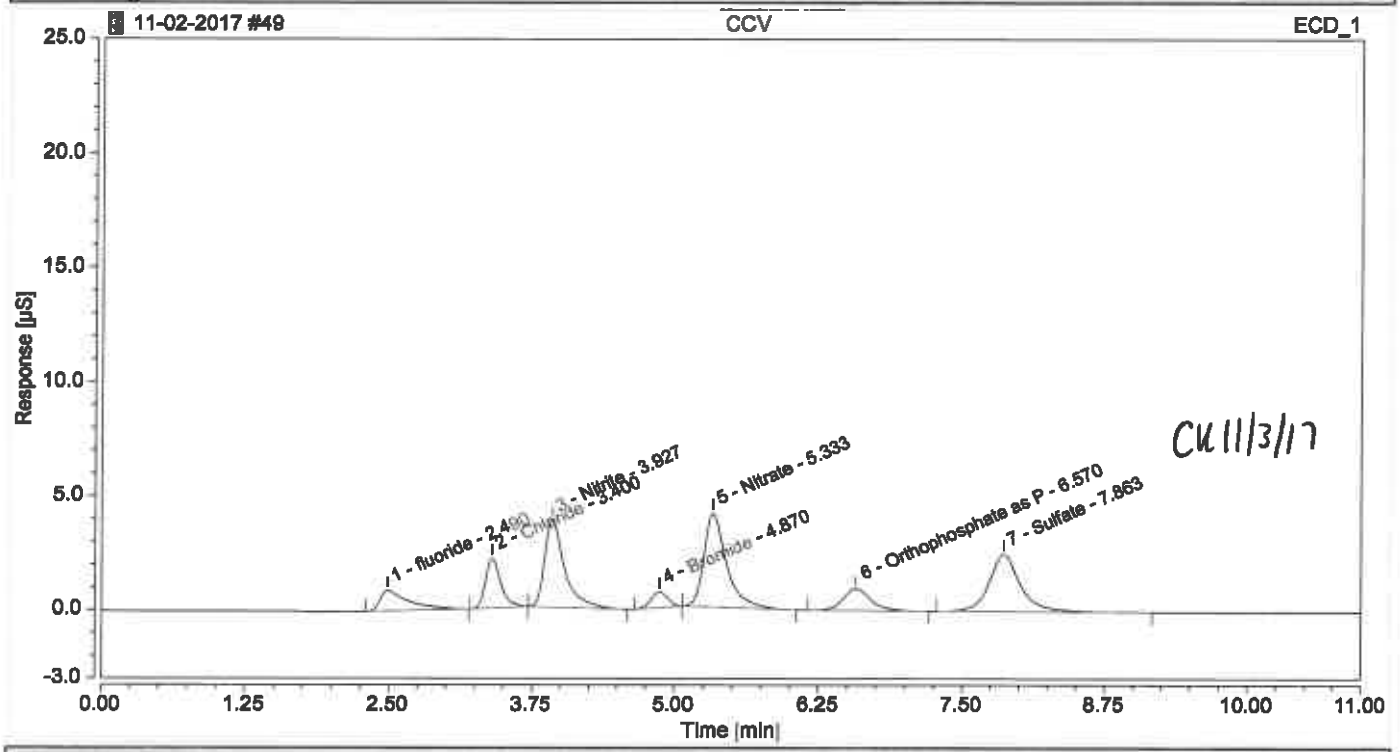
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.887	0.10964	0.324	0.08	0.08	n.a.
2	fluoride	2.487	0.02134	0.088	0.02	0.02	0.0500
3	Chloride OK	3.470	4.54038	31.789	3.32	7.87	23.9742
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.363	0.03443	0.159	0.03	0.04	0.1969
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate OK	7.683	131.89924	371.488	96.56	91.99	877.1532
Total:			**136.605**	**403.847**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 20:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

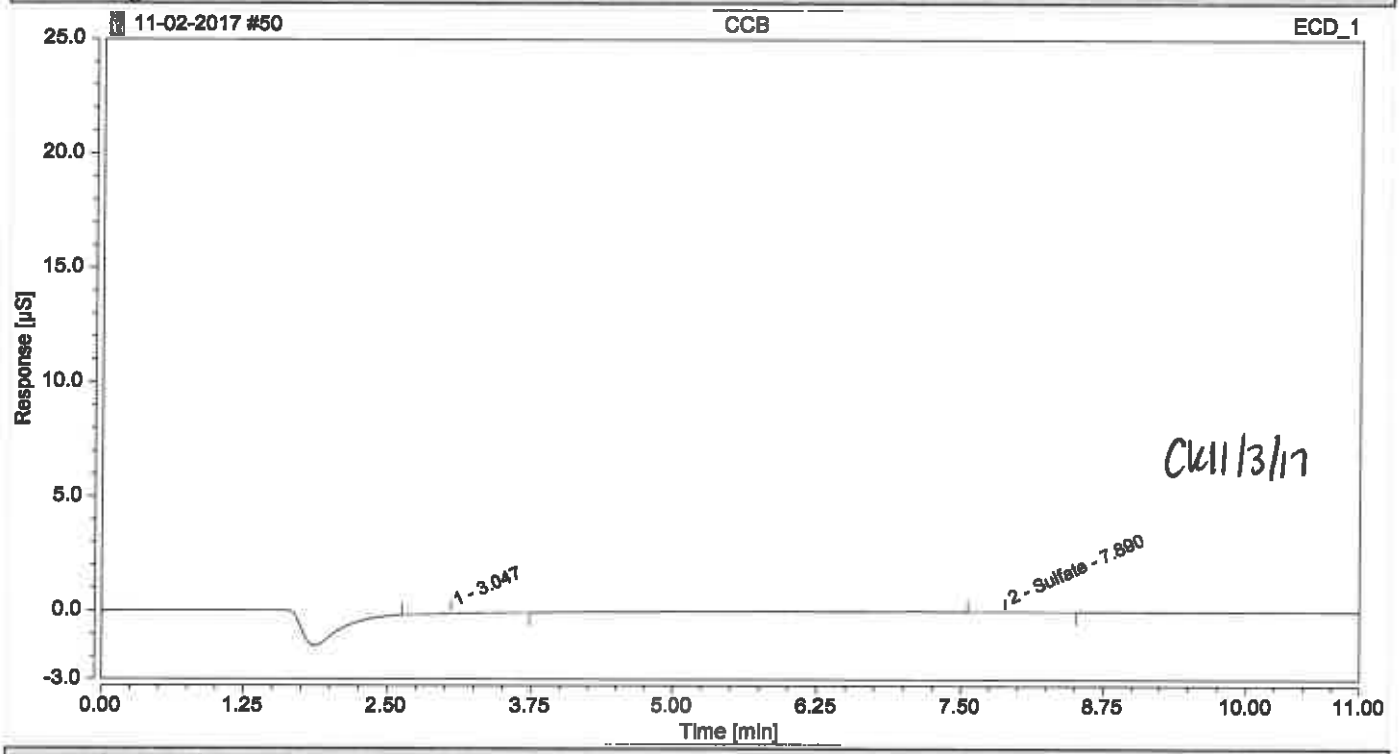
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.490	0.26045	0.889	7.44	5.85	0.6148
2	Chloride	3.400	0.34234	2.183	9.78	14.37	1.0015
3	Nitrite	3.927	0.76771	3.834	21.93	25.24	0.9777
4	Bromide	4.870	0.11521	0.687	3.29	4.52	1.0676
5	Nitrate	5.333	0.93721	4.117	26.77	27.10	1.0007
6	Orthophosphate as P	6.570	0.26805	0.960	7.66	6.32	0.9997
7	Sulfate	7.863	0.81037	2.521	23.14	16.60	2.5208
Total:			**3.501**	**15.192**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 20:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

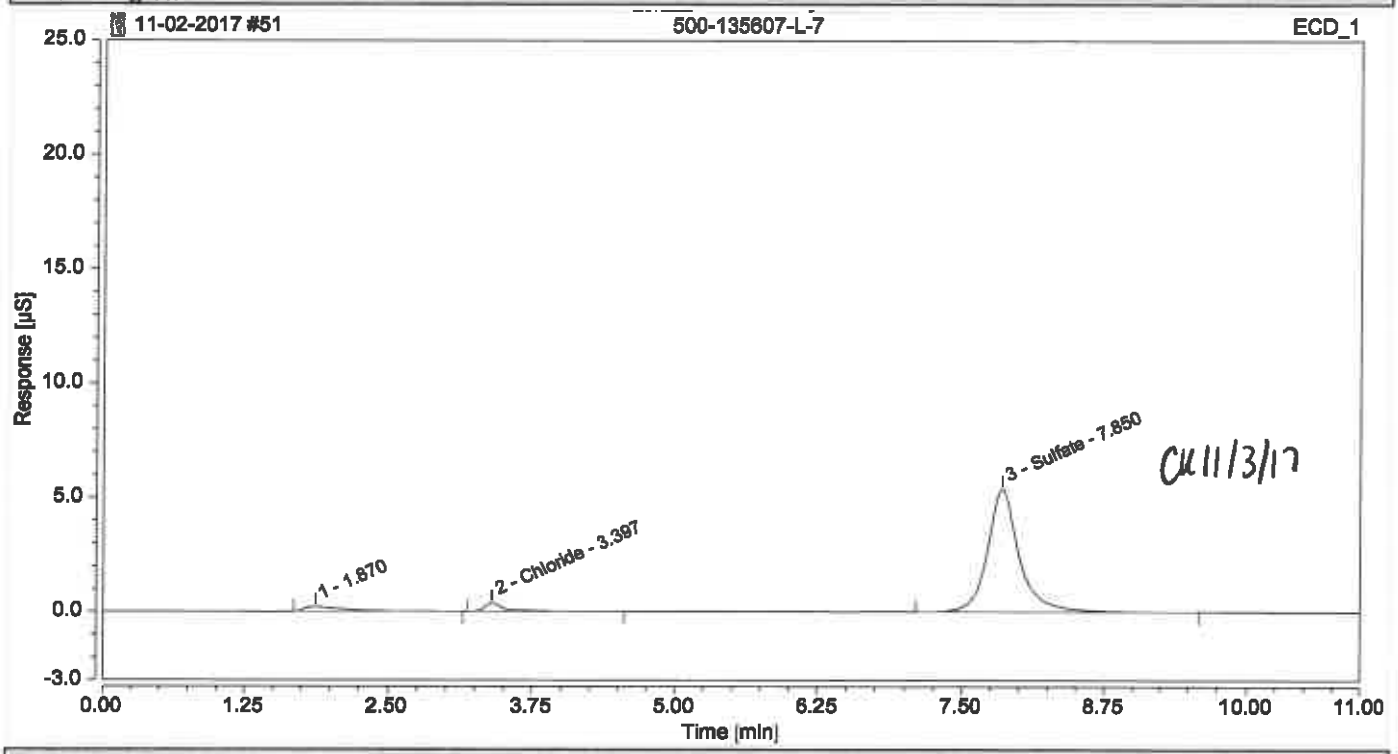
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.047	0.02092	0.028	74.61	60.22	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.890	0.00712	0.018	25.39	39.78	n.a.
Total:			**0.028**	**0.046**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135607-L-7**	*Run Time (min):*	**11.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**02/Nov/17 21:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

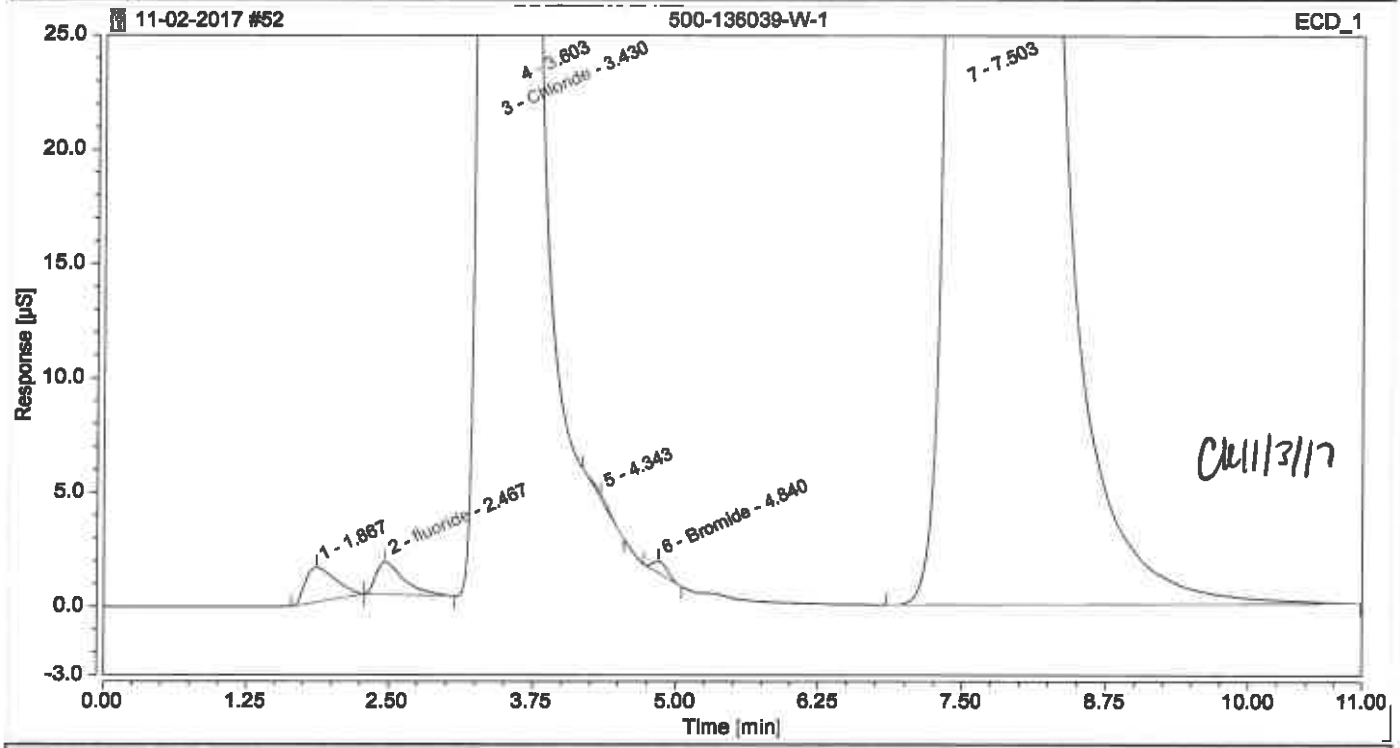
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.08496	0.201	4.40	3.35	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.397	0.07932	0.377	4.11	6.28	31.3175
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.850	1.76631	5.415	91.49	90.36	570.0692
Total:			**1.931**	**5.993**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136039-W-1**	*Run Time (min):*	**11.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 21:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

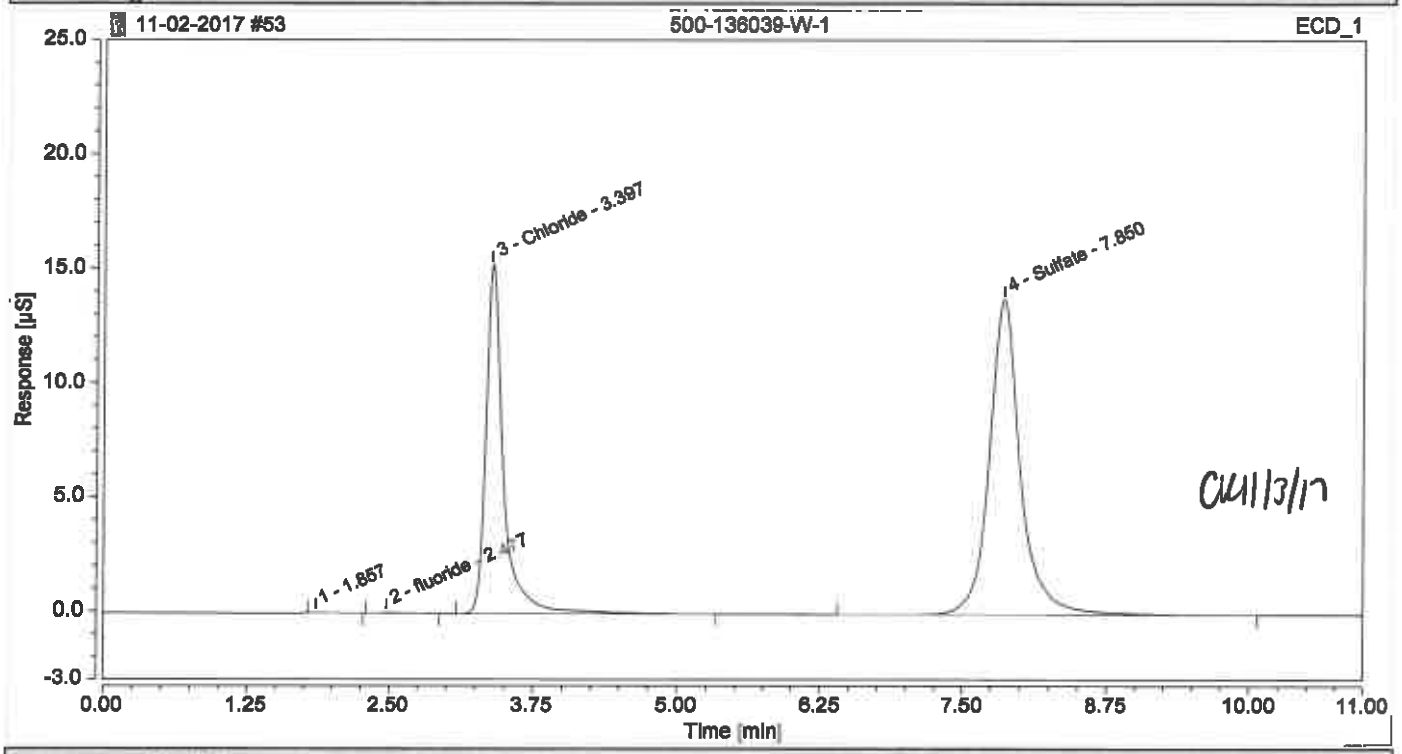
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.867	0.46451	1.525	0.13	0.11	n.a.
2	fluoride	2.467	0.40176	1.441	0.11	0.11	0.9633
3	Chloride OK	3.430	30.61481	263.367	8.27	19.26	80.2201
4		3.603	41.69676	415.160	11.26	30.36	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.343	0.03809	0.208	0.01	0.02	n.a.
6	Bromide	4.840	0.07615	0.485	0.02	0.04	0.7296
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		7.503	296.85973	685.471	80.20	50.12	n.a.
n.a.	Sulfate OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**370.152**	**1367.657**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136039-W-1**	*Run Time (min):*	**11.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**F, CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**02/Nov/17 21:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

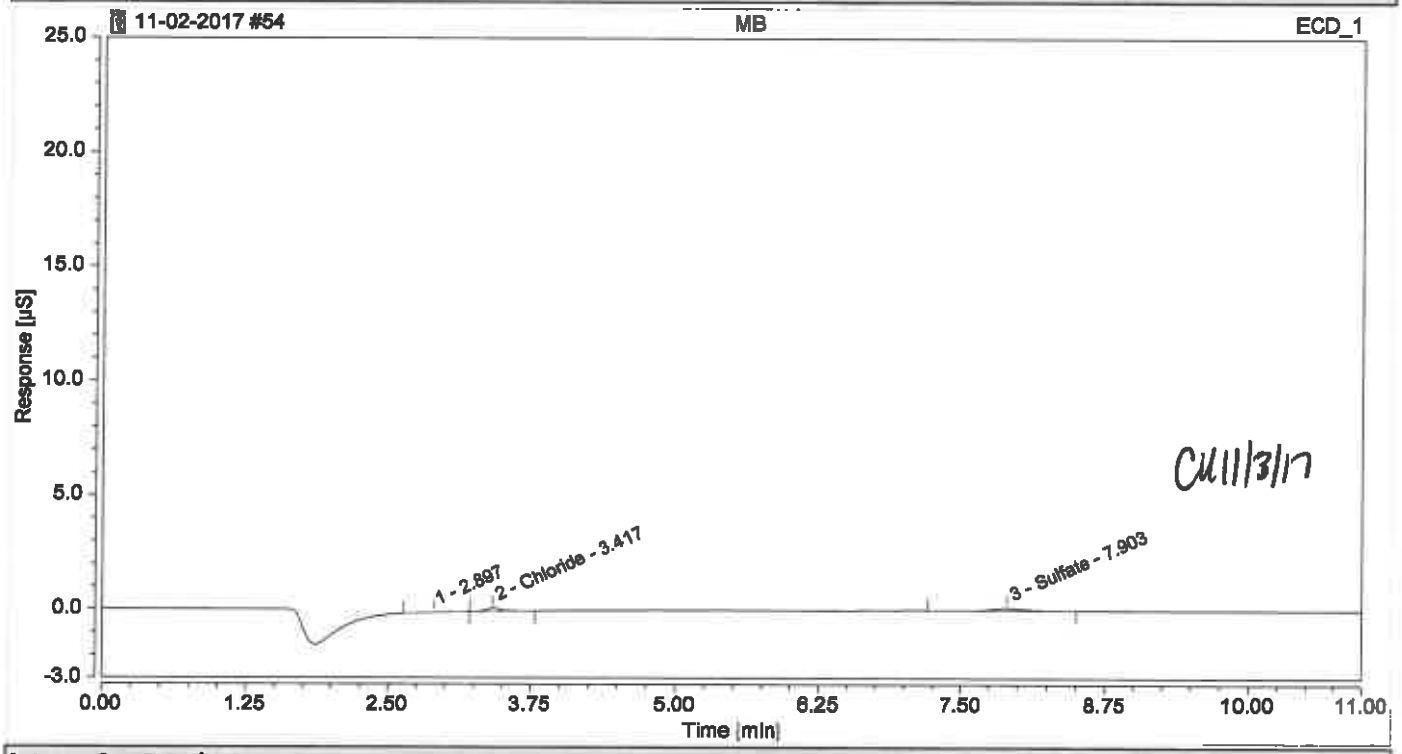
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.857	0.00355	0.015	0.05	0.05	n.a.
2	fluoride KE	2.477	0.00914	0.035	0.13	0.12	n.a.
3	Chloride	3.397	2.66923	15.289	37.83	52.43	354.5303
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.850	4.37468	13.820	61.99	47.39	718.8611
Total:			**7.057**	**29.160**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 21:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

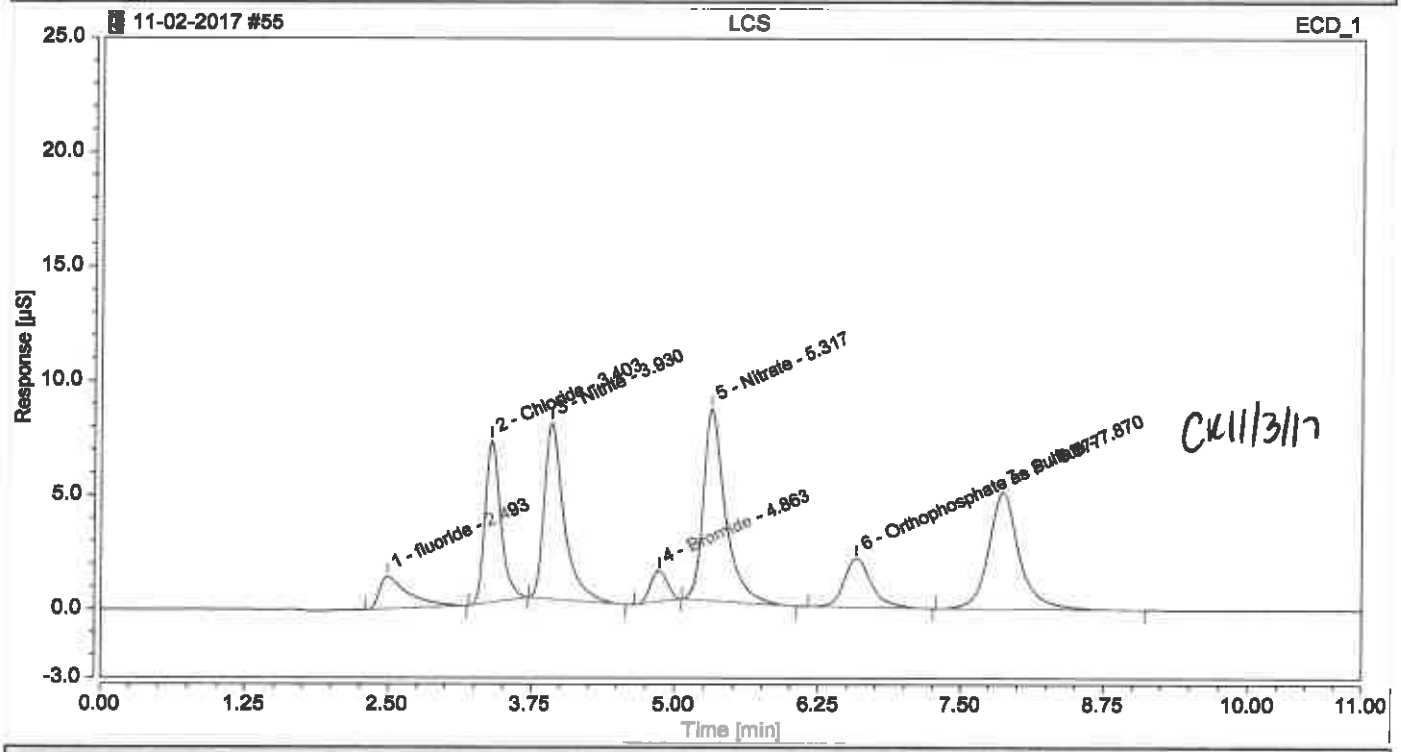
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.897	0.00542	0.014	8.44	5.36	n.a.
2	Chloride	3.417	0.02183	0.140	33.96	53.77	0.1627
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.903	0.03702	0.107	57.60	40.87	n.a.
Total:			**0.064**	**0.261**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 21:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

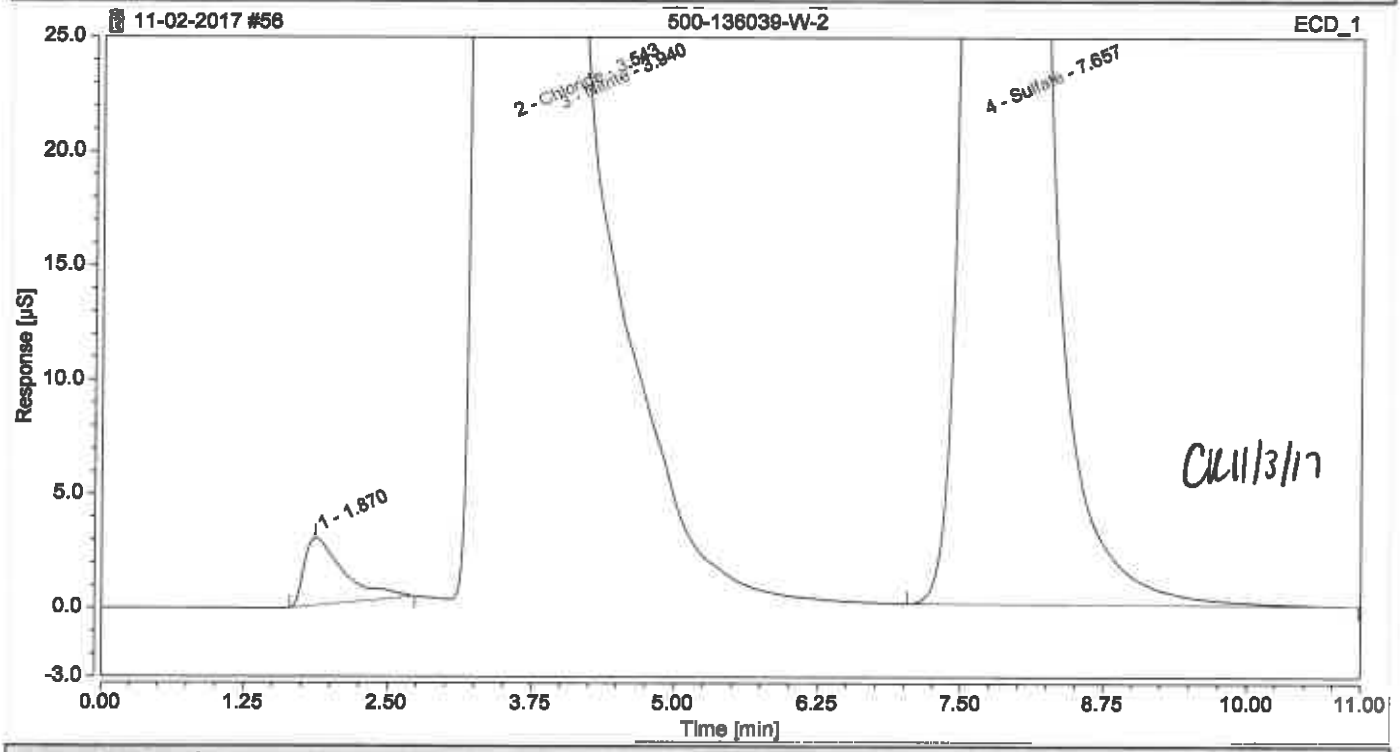
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.493	0.41220	1.424	5.59	4.27	0.9891
2	Chloride	3.403	1.10417	7.100	14.97	21.30	2.9951
3	Nitrite	3.930	1.53434	7.735	20.80	23.21	1.9078
4	Bromide	4.863	0.22465	1.357	3.04	4.07	2.0146
5	Nitrate	5.317	1.89036	8.452	25.62	25.36	1.9533
6	Orthophosphate as P	6.577	0.59875	2.137	8.12	6.41	2.1003
7	Sulfate	7.870	1.61362	5.127	21.87	15.38	5.1928
Total:			**7.378**	**33.332**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136039-W-2**	*Run Time (min):*	**11.00**
Vial Number:	**GC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 22:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

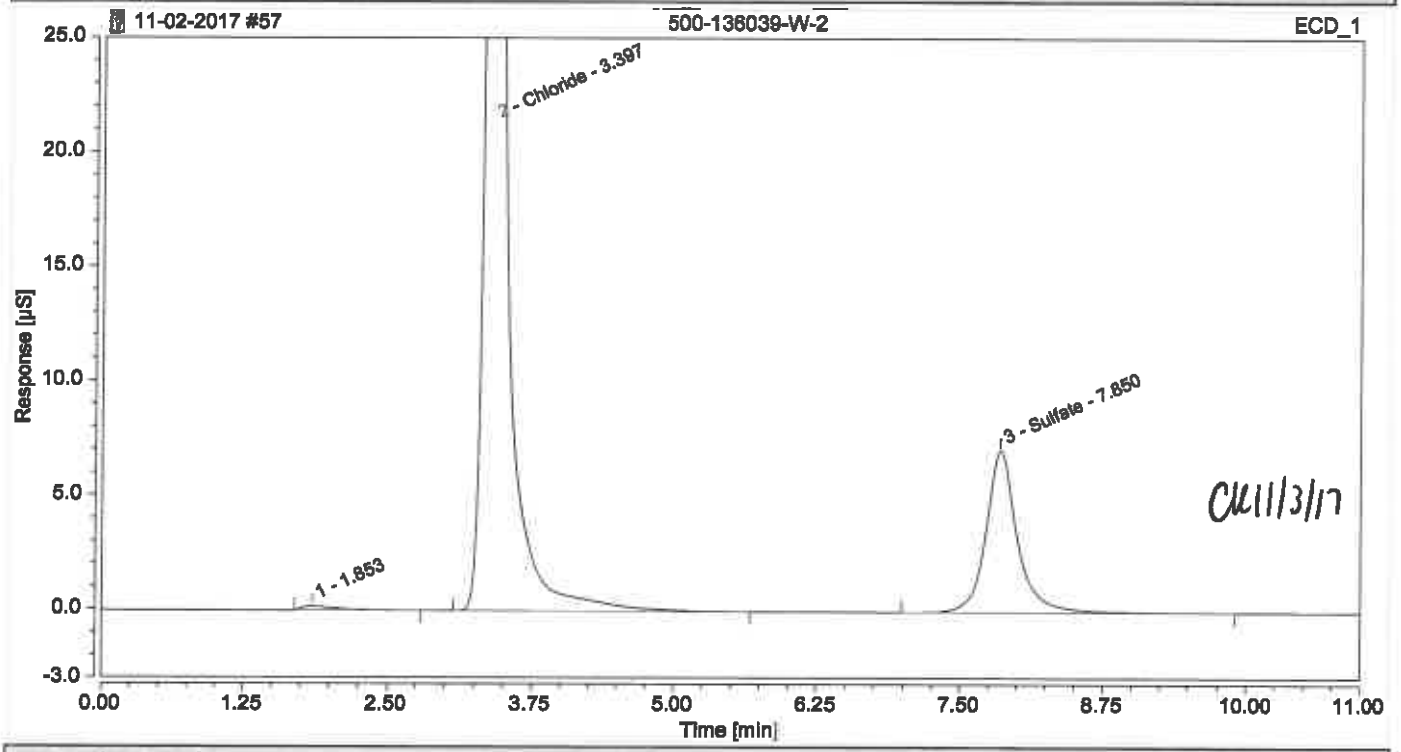
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	1.16796	2.966	0.20	0.13	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.543	128.52277	644.825	22.55	27.62	336.4311
3	Nitrite	3.940	279.10853	1249.123	48.97	53.51	338.6388
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.657	161.15261	437.459	28.27	18.74	535.8854
Total:			**569.952**	**2334.373**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136039-W-2**	*Run Time (min):*	**11.00**
Vial Number:	**GC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**02/Nov/17 22:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

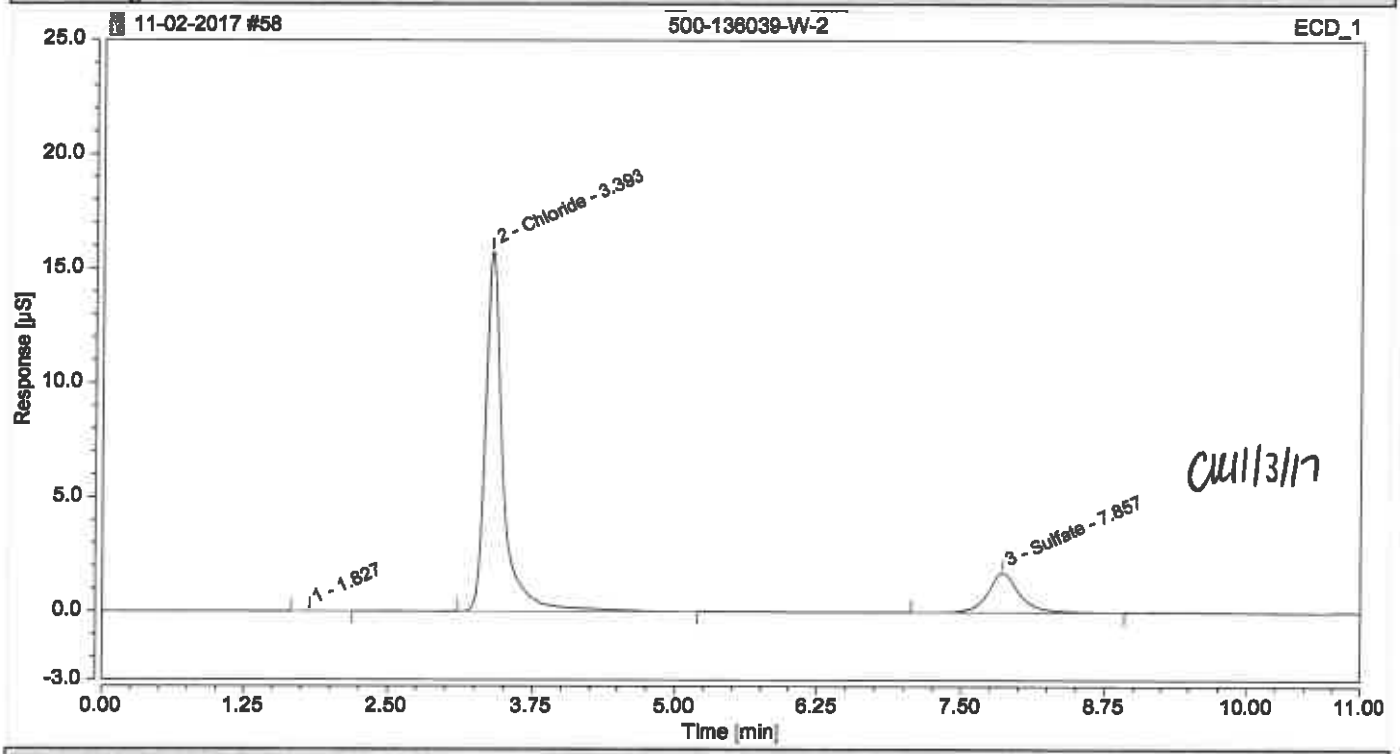
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.853	0.05649	0.163	0.37	0.19	n.a.
n.a.	fluoride KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride DK	3.397	13.03016	76.337	84.69	91.31	1710.1823
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.850	2.29864	7.106	14.94	8.50	373.5720
Total:			**15.385**	**83.606**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-136039-W-2	*Run Time (min):*	11.00
Vial Number:	GC8	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	CL, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	200.0000
Injection Date/Time:	02/Nov/17 22:33	*Sample Weight:*	1.0000

Chromatogram



Integration Results

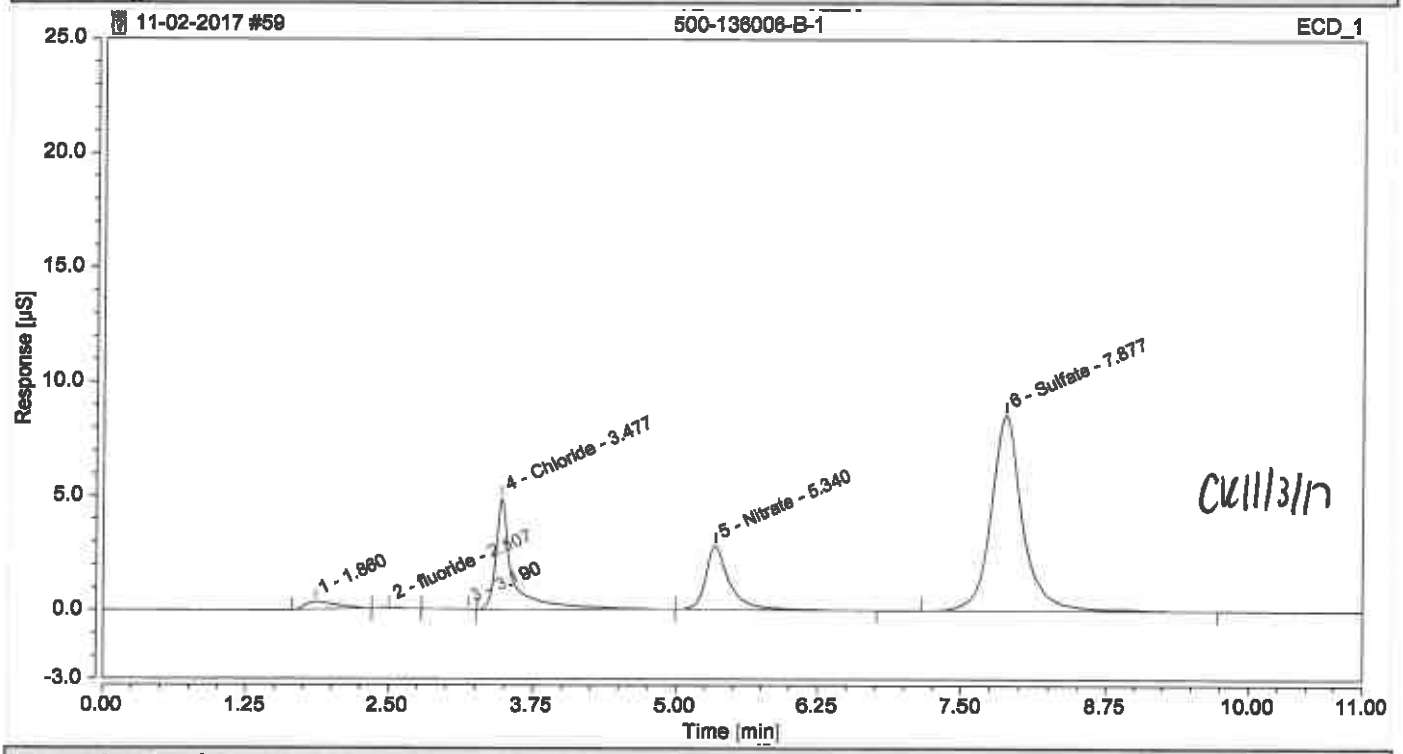
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.827	0.00305	0.014	0.09	0.08	n.a.
n.a.	fluoride RE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.393	2.75147	15.784	82.83	90.01	1461.1606
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate RE	7.857	0.56751	1.737	17.08	9.90	342.5970
Total:			**3.322**	**17.535**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**GD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 22:45**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

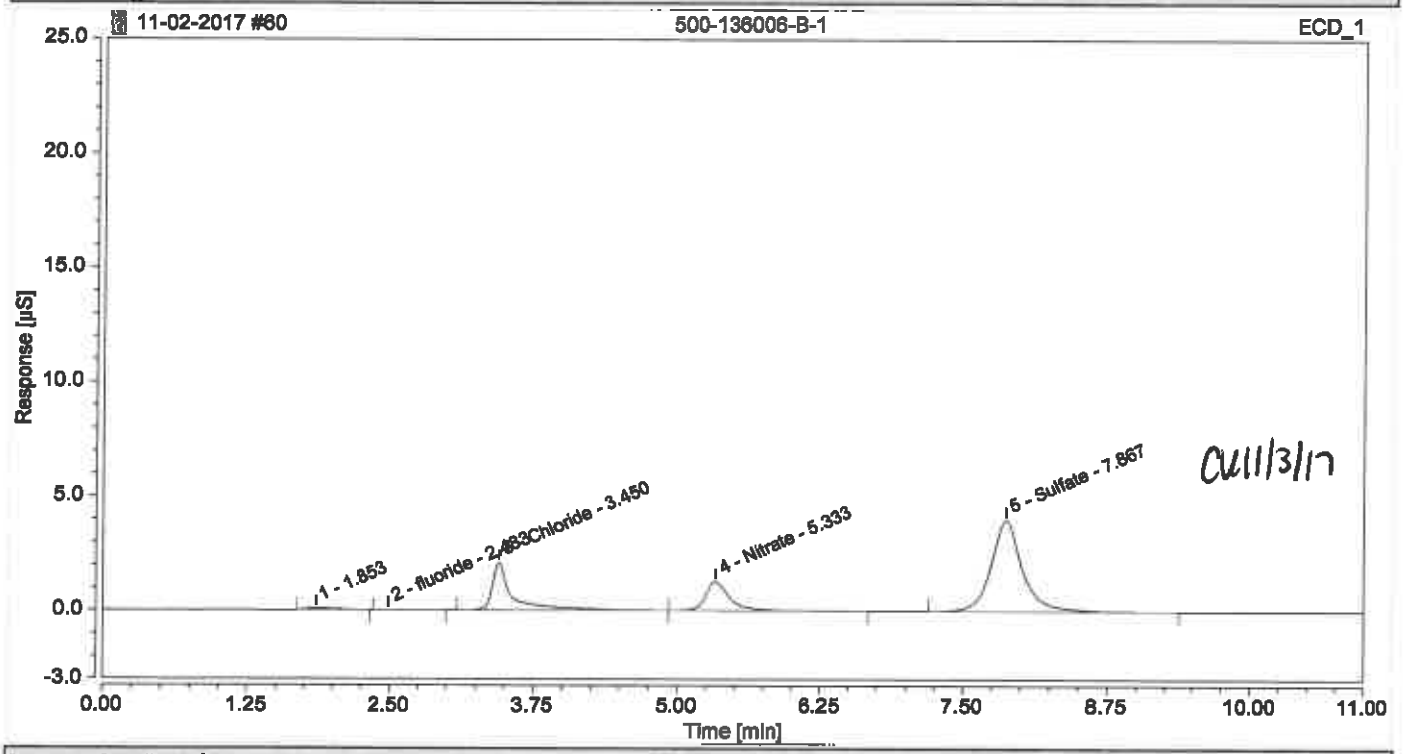
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.10554	0.329	2.39	1.97	n.a.
2	fluoride	2.507	0.00798	0.039	0.18	0.23	n.a.
3		3.190	0.00536	0.020	0.12	0.12	n.a.
4	Chloride	3.477	0.87402	4.880	19.81	29.26	2.3928
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.340	0.69221	2.812	15.69	16.86	0.7558
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	7.877	2.72636	8.595	61.80	51.55	8.8942
Total:			**4.411**	**16.674**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**GD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**02/Nov/17 22:58**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

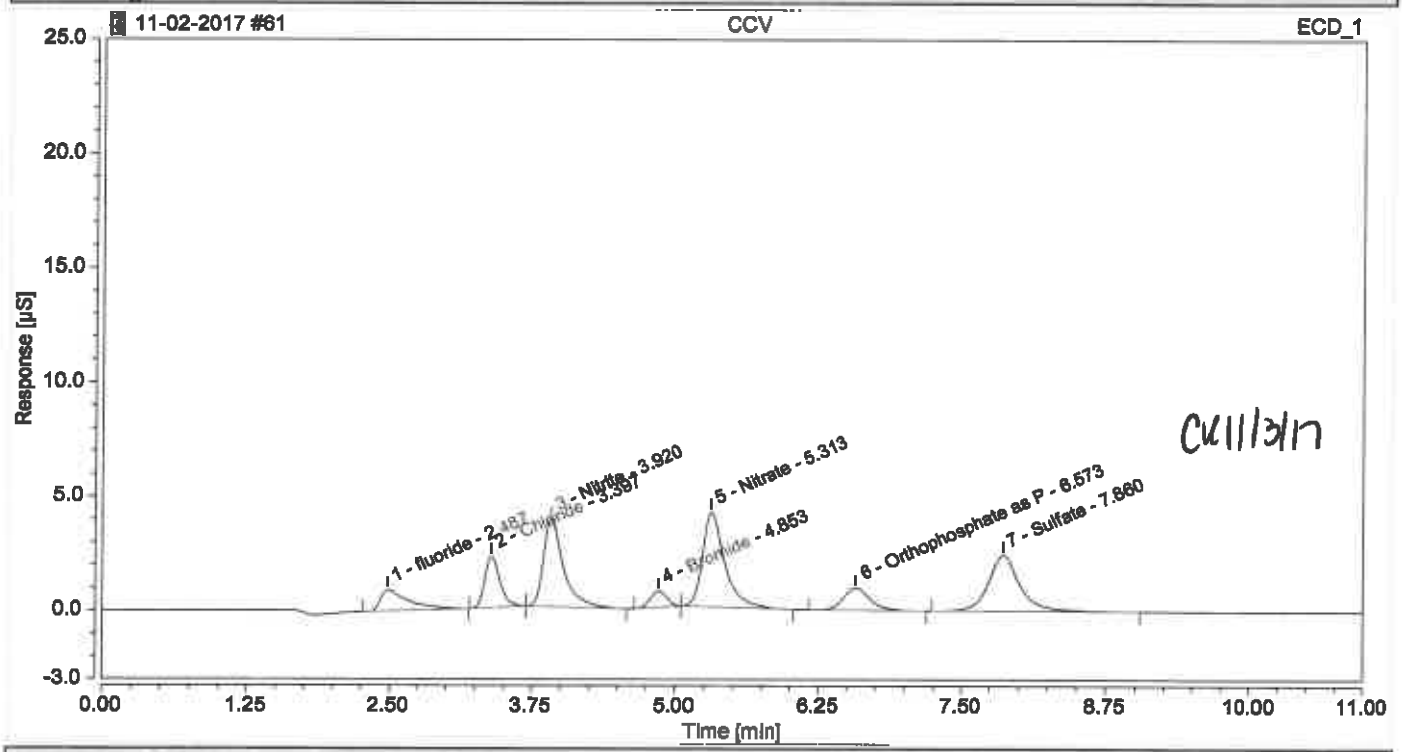
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.853	0.02535	0.078	1.24	1.05	n.a.
2	fluoride NE	2.483	0.00507	0.021	0.25	0.29	n.a.
3	Chloride	3.450	0.42662	2.082	20.80	27.93	2.4440
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.333	0.31111	1.266	15.17	16.99	0.7499
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	7.867	1.28271	4.007	62.55	53.75	8.1841
Total:			**2.051**	**7.455**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 23:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

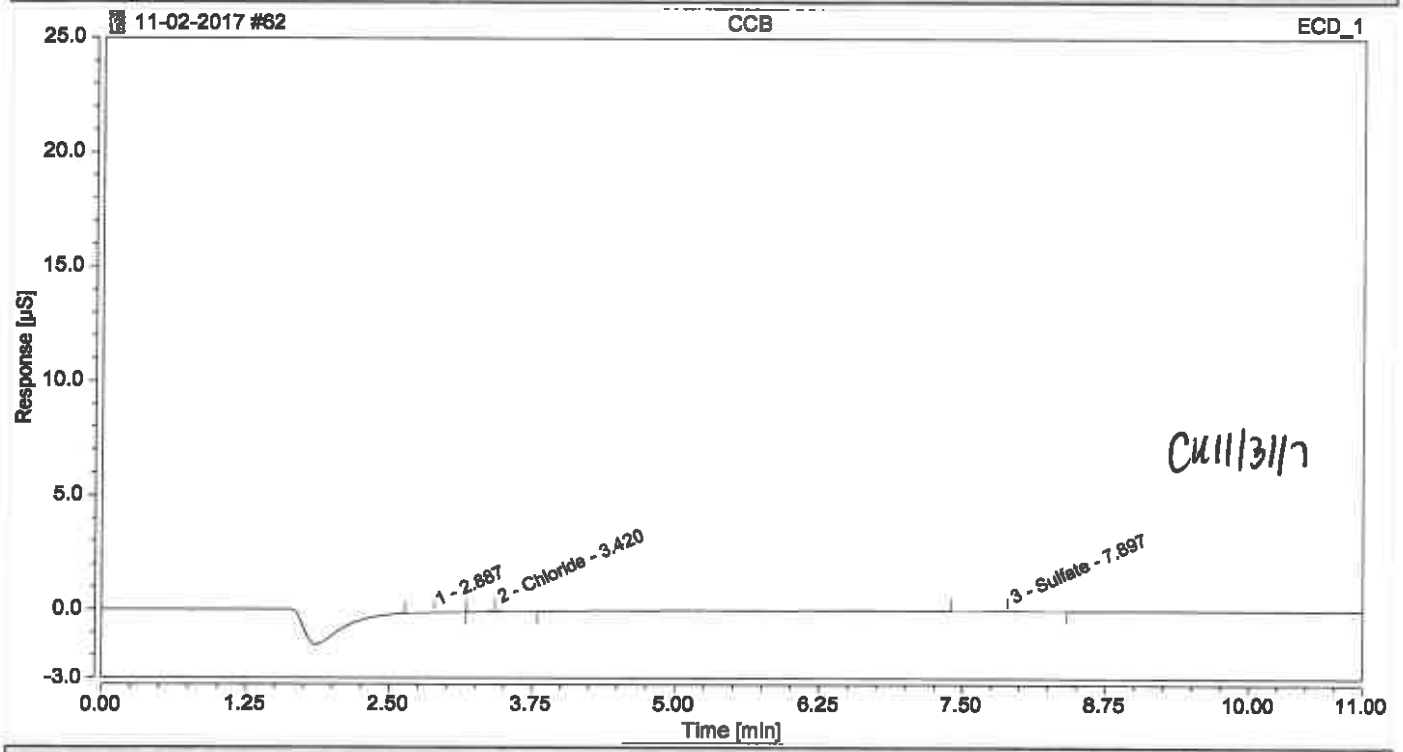
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.487	0.26863	0.930	7.72	6.06	0.6349
2	Chloride	3.397	0.34159	2.254	9.82	14.69	0.9995
3	Nitrite	3.920	0.76815	3.868	22.08	25.22	0.9783
4	Bromide	4.853	0.11667	0.700	3.35	4.56	1.0803
5	Nitrate	5.313	0.93493	4.153	26.87	27.07	0.9984
6	Orthophosphate as P	6.573	0.26694	0.975	7.67	6.36	0.9960
7	Sulfate	7.860	0.78231	2.461	22.49	16.04	2.4275
Total:			**3.479**	**15.341**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 23:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

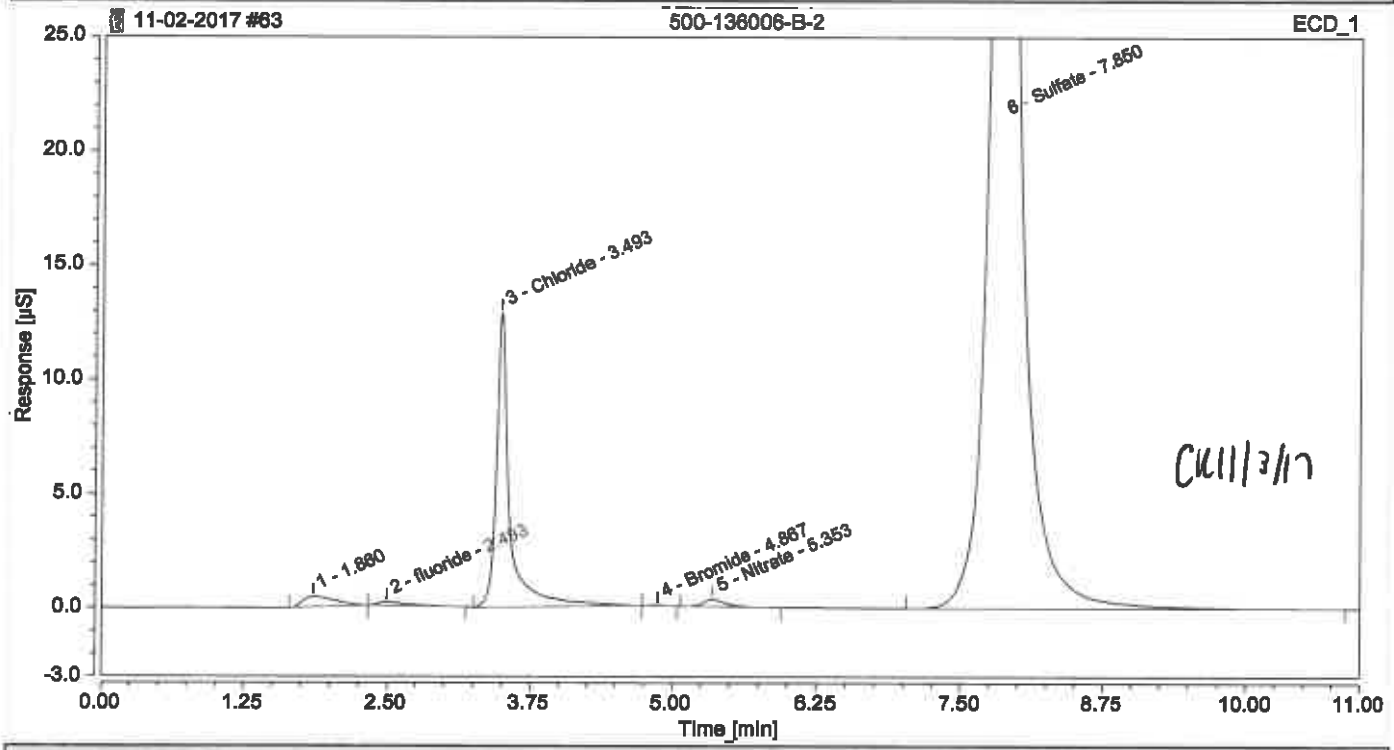
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.887	0.00364	0.011	15.12	12.33	n.a.
2	Chloride	3.420	0.00813	0.042	33.78	49.15	0.1269
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.897	0.01229	0.033	51.10	38.52	n.a.
Total:			**0.024**	**0.085**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**GD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**02/Nov/17 23:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

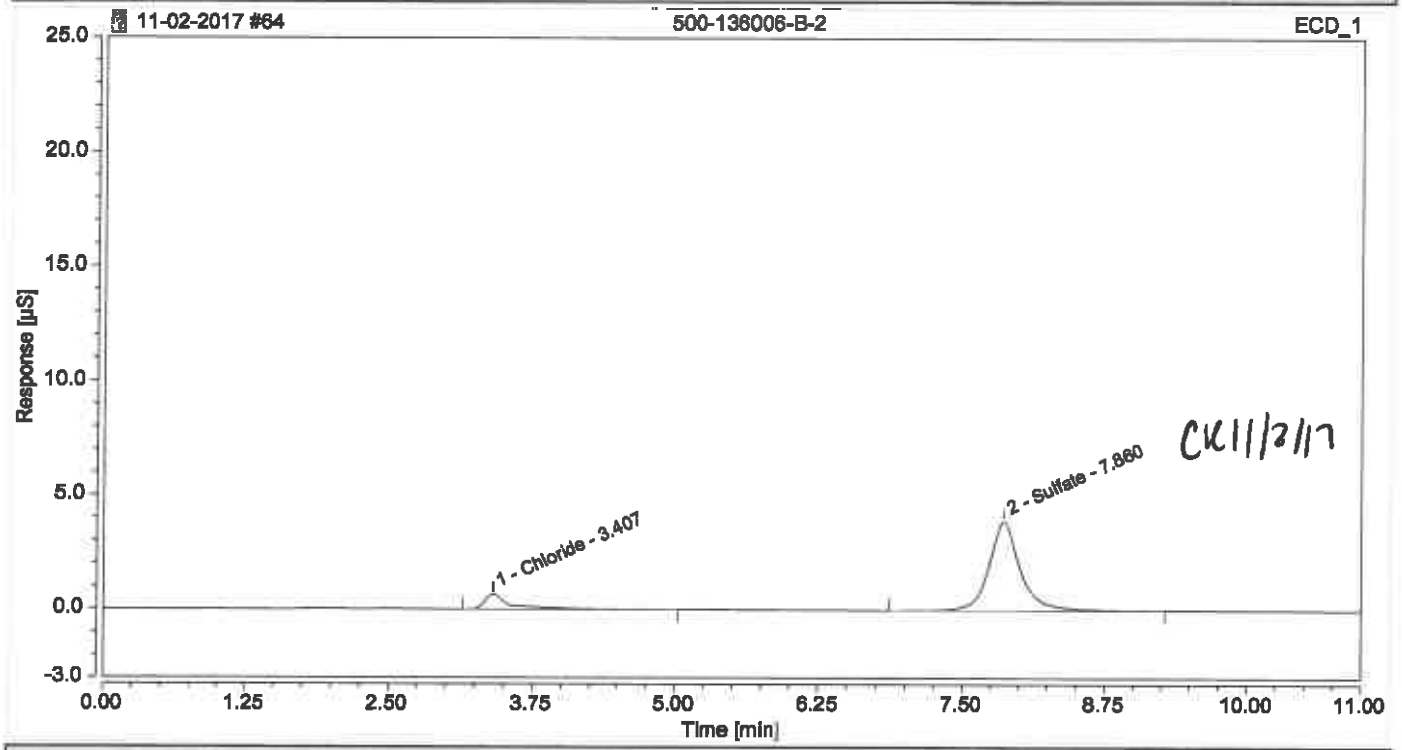
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.14937	0.465	0.86	0.72	n.a.
2	fluoride	2.493	0.04920	0.169	0.28	0.26	0.0937
3	Chloride	3.493	1.83349	12.895	10.59	19.98	4.9036
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	4.867	0.00471	0.032	0.03	0.05	0.1115
5	Nitrate	5.353	0.07186	0.326	0.42	0.51	0.1358
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	7.850	15.19781	50.653	87.82	78.48	50.3794
Total:			**17.306**	**64.539**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**GD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**02/Nov/17 23:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

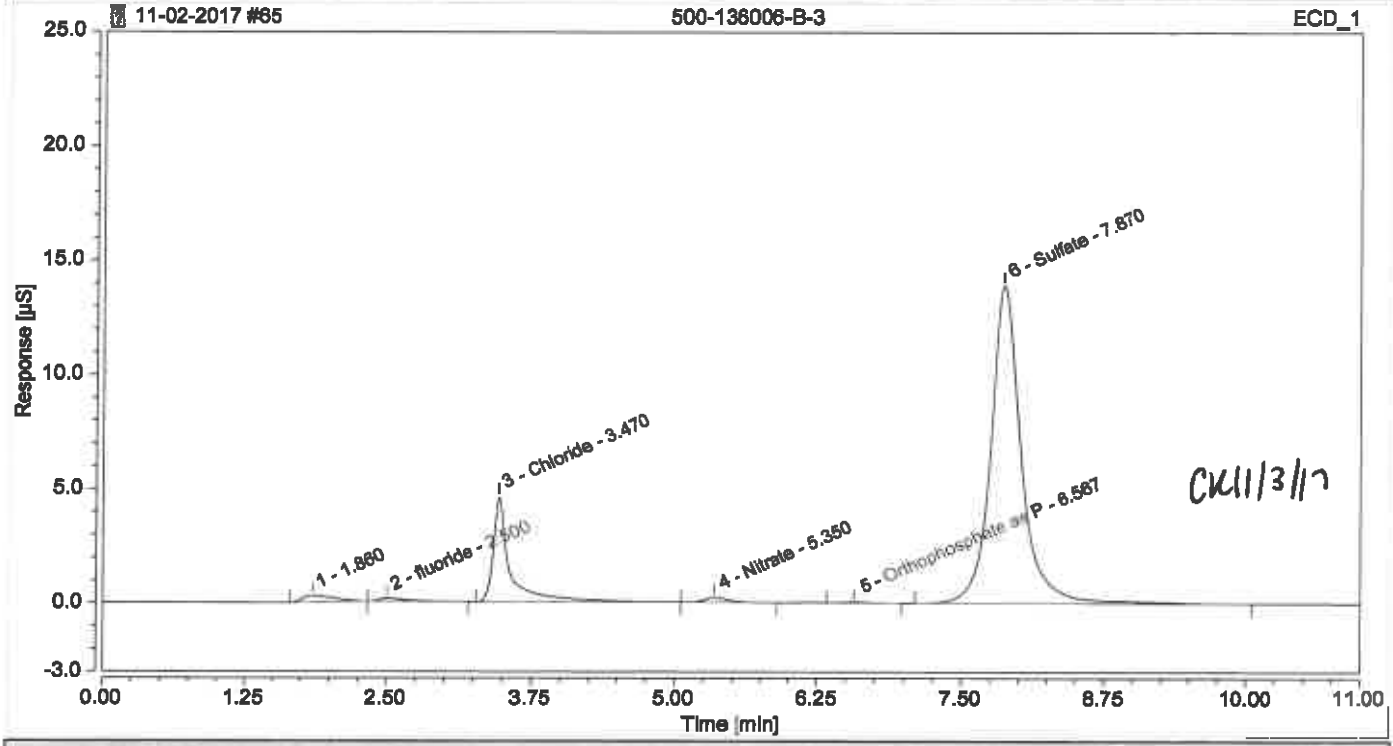
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride KL CKI1/2/17	3.407	0.17997	0.652	12.47	14.32	5.7657
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.860	1.26319	3.901	87.53	85.68	40.2710
Total:			**1.443**	**4.553**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**GD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 00:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

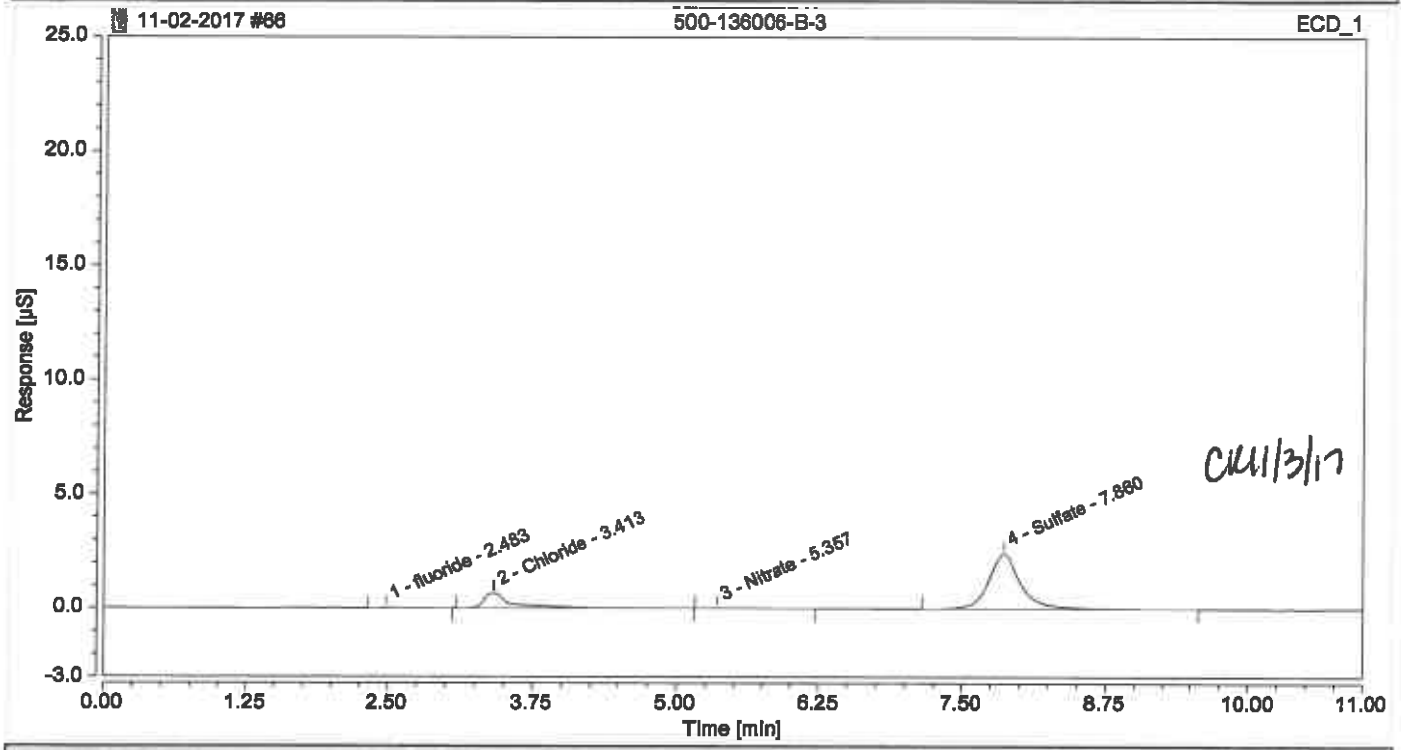
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.860	0.09089	0.288	1.69	1.50	n.a.
2	fluoride	2.500	0.04000	0.130	0.74	0.67	0.0710
3	Chloride	3.470	0.82603	4.646	15.37	24.11	2.2672
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.350	0.05148	0.226	0.96	1.17	0.1155
5	Orthophosphate as P	6.567	0.00937	0.042	0.17	0.22	0.1387
6	Sulfate OK	7.870	4.35568	13.935	81.06	72.32	14.3140
Total:			**5.373**	**19.268**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136006-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**GD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**03/Nov/17 00:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

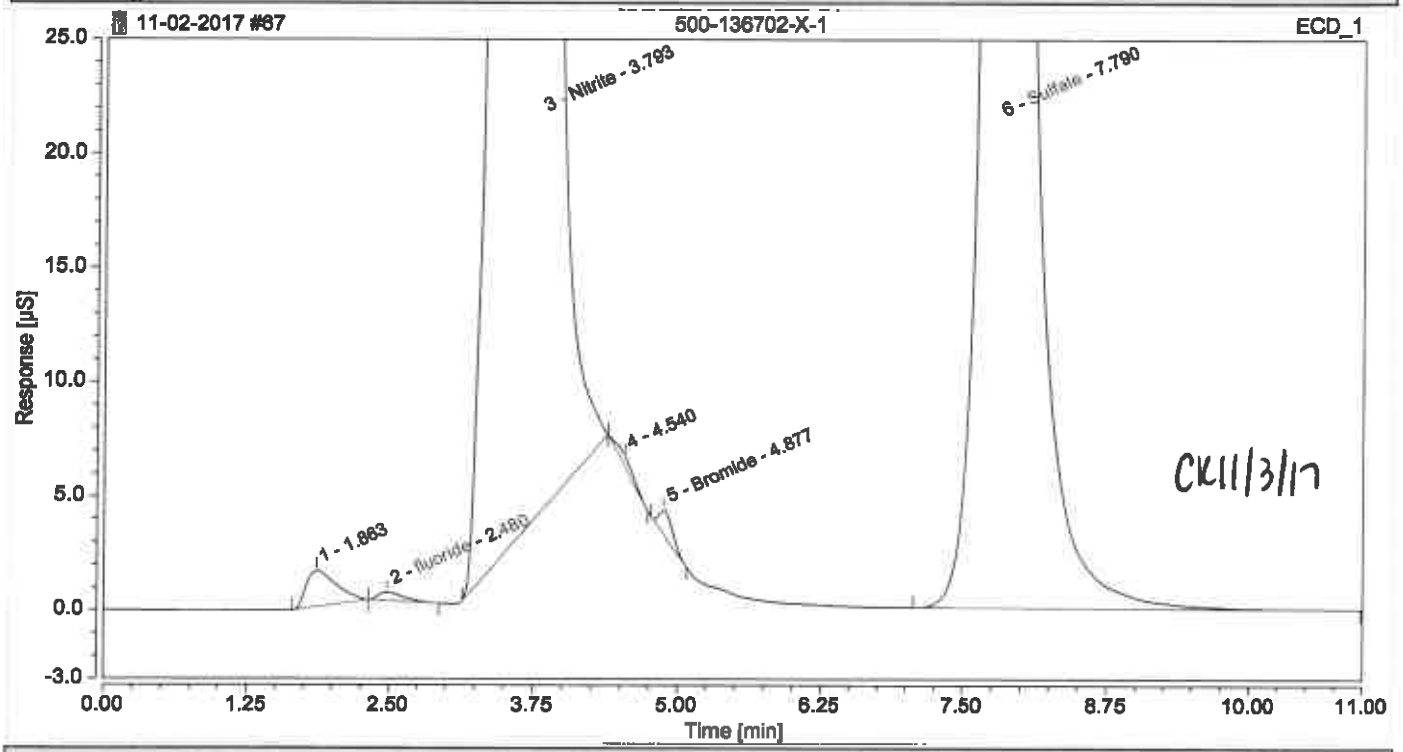
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.483	0.00740	0.027	0.75	0.86	n.a.
2	Chloride	3.413	0.18493	0.655	18.68	20.91	2.9478
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.357	0.00532	0.014	0.54	0.45	0.3467
n.a	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.860	0.79254	2.435	80.04	77.78	12.3077
Total:			0.990	3.130	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-1**	*Run Time (min):*	**11.00**
Vial Number:	**GD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 00:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

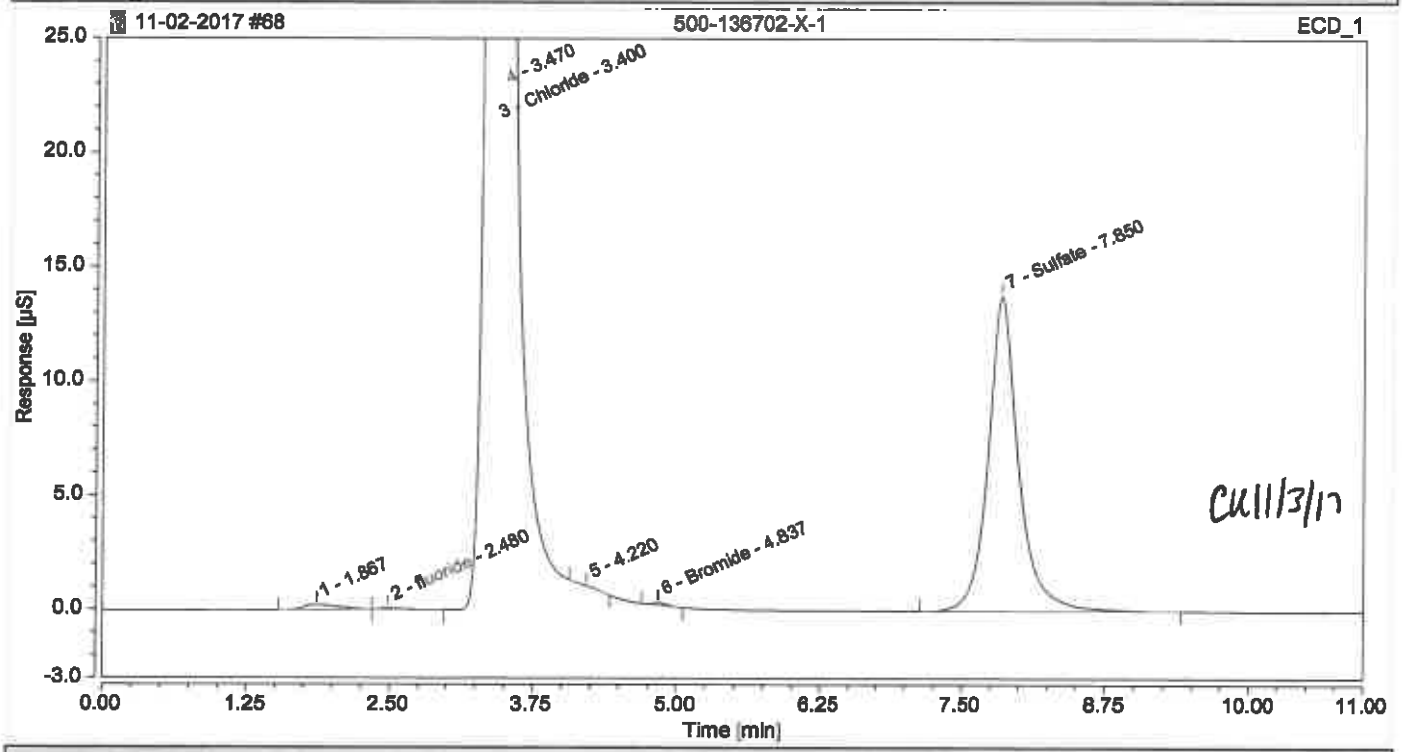
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.48498	1.578	0.12	0.12	n.a.
2	fluoride	2.480	0.09625	0.372	0.02	0.03	0.2098
n.a.	Chloride OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrite CL	3.793	339.43755	1115.074	85.66	85.96	411.8252
4		4.540	0.09312	0.489	0.02	0.04	n.a.
5	Bromide	4.877	0.15843	1.096	0.04	0.08	1.4416
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	7.790	55.97802	178.655	14.13	13.77	186.0313
Total:			**396.248**	**1297.265**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-1**	*Run Time (min):*	**11.00**
Vial Number:	**GD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**03/Nov/17 00:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

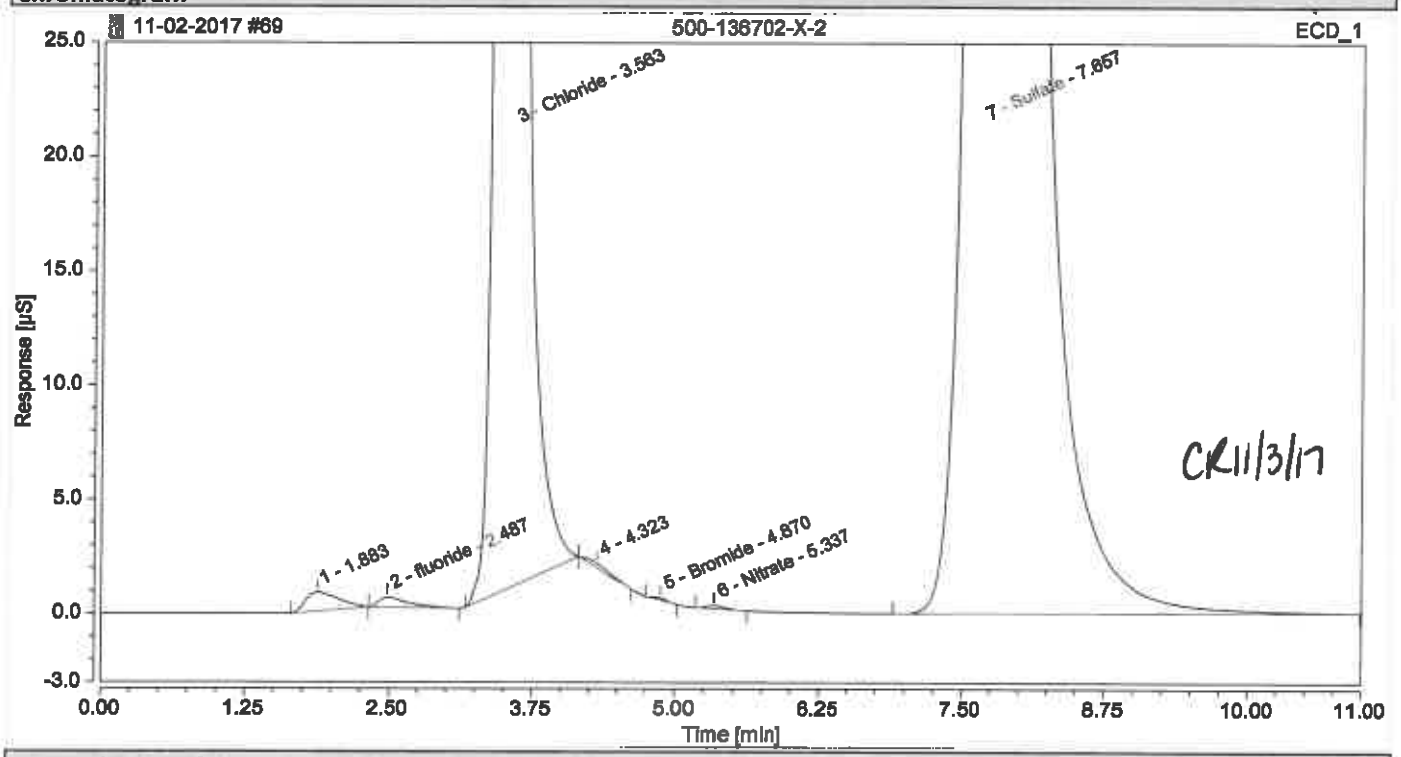
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.867	0.07410	0.213	0.76	0.27	n.a.
2	fluoride CE	2.480	0.01340	0.055	0.14	0.07	0.0544
3	Chloride OK	3.400	3.43177	38.520	35.30	49.50	90.8606
4		3.470	1.88953	25.102	19.44	32.26	n.a.
n.a.	Nitrite CE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.220	0.00483	0.025	0.05	0.03	n.a.
6	Bromide	4.837	0.01510	0.097	0.16	0.13	2.0147
n.a.	Nitrate CE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	7.850	4.29254	13.801	44.16	17.74	141.0398
Total:			**9.721**	**77.813**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-136702-X-2	*Run Time (min):*	11.00
Vial Number:	GE1	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	f, CL, NO2, NO3, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	1.0000
Injection Date/Time:	03/Nov/17 00:52	*Sample Weight:*	1.0000

Chromatogram



Integration Results

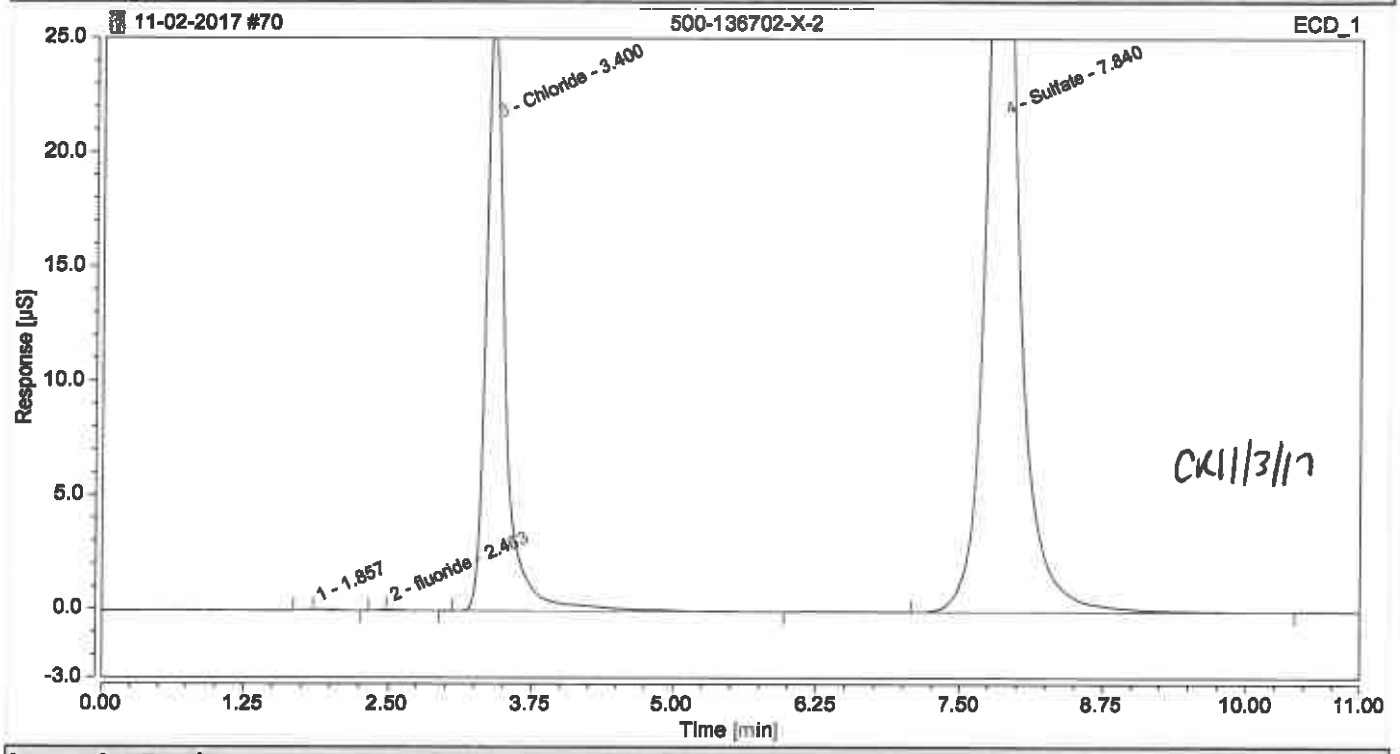
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.883	0.27362	0.828	0.12	0.10	n.a.
2	fluoride	2.487	0.12802	0.432	0.06	0.05	0.2881
3	Chloride OK	3.563	65.98007	407.620	29.94	49.06	172.7659
n.a.	Nitrite CE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.323	0.04891	0.193	0.02	0.02	n.a.
5	Bromide	4.870	0.01160	0.091	0.01	0.01	0.1712
6	Nitrate	5.337	0.02439	0.135	0.01	0.02	0.0884
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	7.657	153.93250	421.566	69.84	50.74	511.8684
Total:			**220.399**	**830.865**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-136702-X-2	*Run Time (min):*	11.00
Vial Number:	GE2	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	f, CL, NO2, NO3, SO4
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	10.0000
Injection Date/Time:	03/Nov/17 01:04	*Sample Weight:*	1.0000

Chromatogram



Integration Results

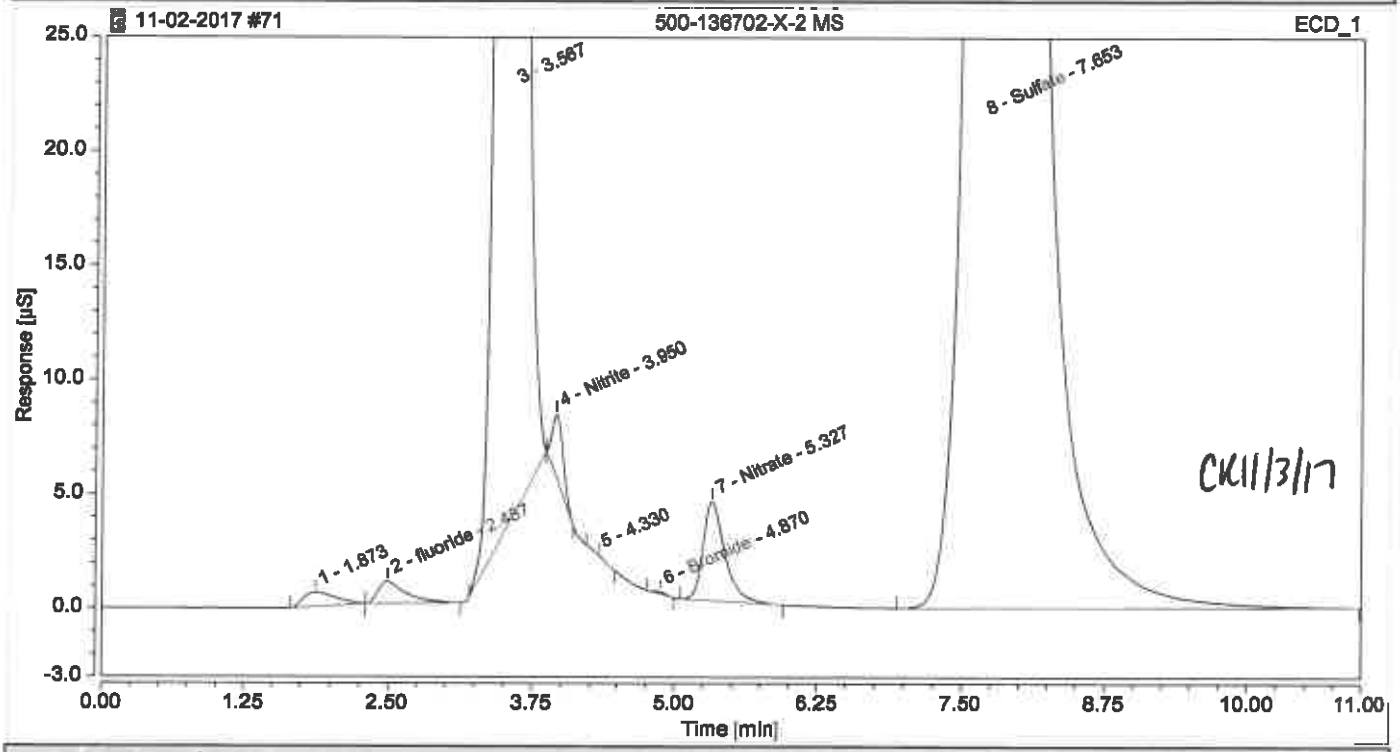
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.857	0.01426	0.043	0.08	0.06	n.a.
2	fluoride RE	2.483	0.01120	0.049	0.06	0.07	0.0001
3	Chloride OR	3.400	5.06637	26.182	29.39	39.60	133.6358
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OR	7.840	12.14589	39.842	70.46	60.26	402.2746
Total:			**17.238**	**66.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-2 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GE3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 01:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

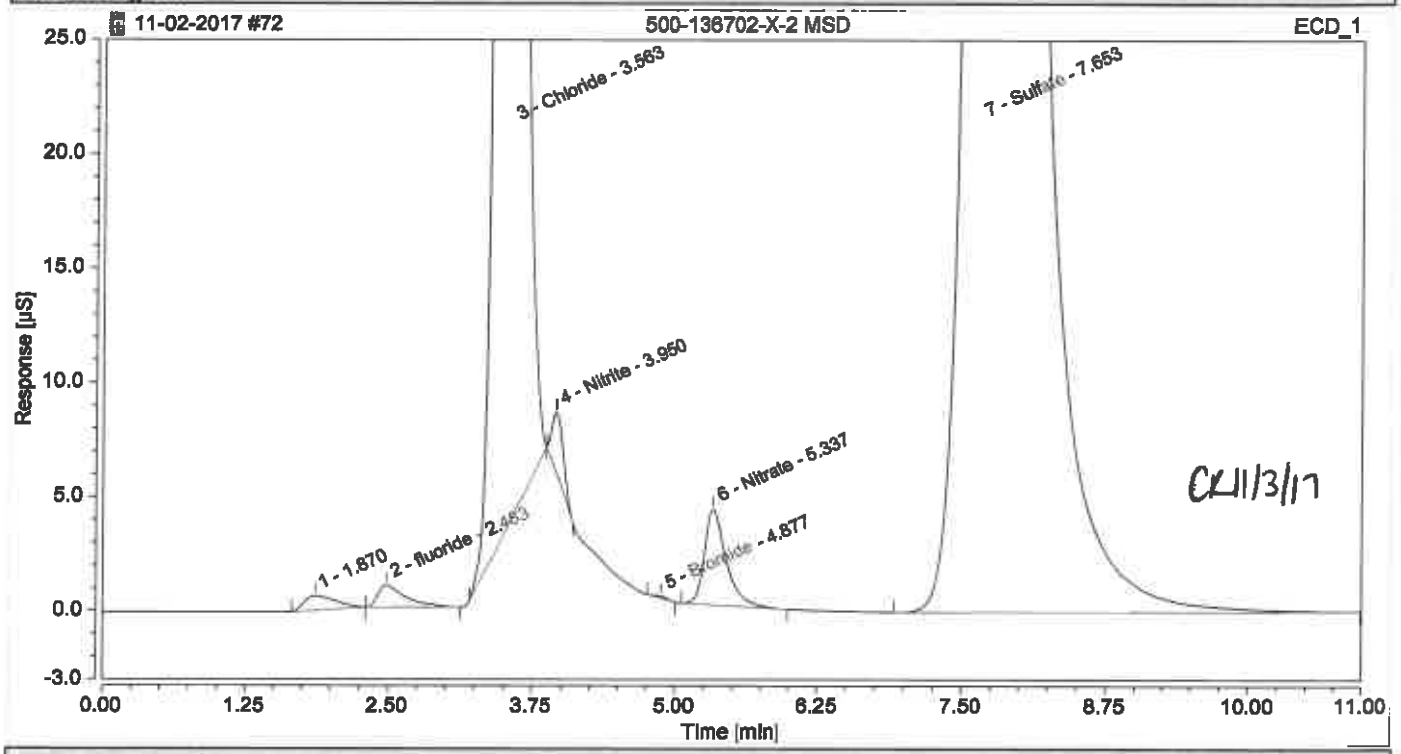
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.873	0.20071	0.627	0.09	0.07	n.a.
2	fluoride	2.487	0.26959	0.969	0.12	0.12	0.6373
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.567	63.88015	404.221	29.15	48.31	n.a.
4	Nitrite	3.950	0.30536	2.705	0.14	0.32	0.4169
5		4.330	0.00567	0.040	0.00	0.00	n.a.
6	Bromide	4.870	0.00961	0.081	0.00	0.01	0.1540
7	Nitrate	5.327	0.95709	4.354	0.44	0.52	1.0206
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	7.653	153.54128	423.665	70.06	50.64	510.5670
Total:			**219.169**	**836.662**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-2 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**GE4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 01:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

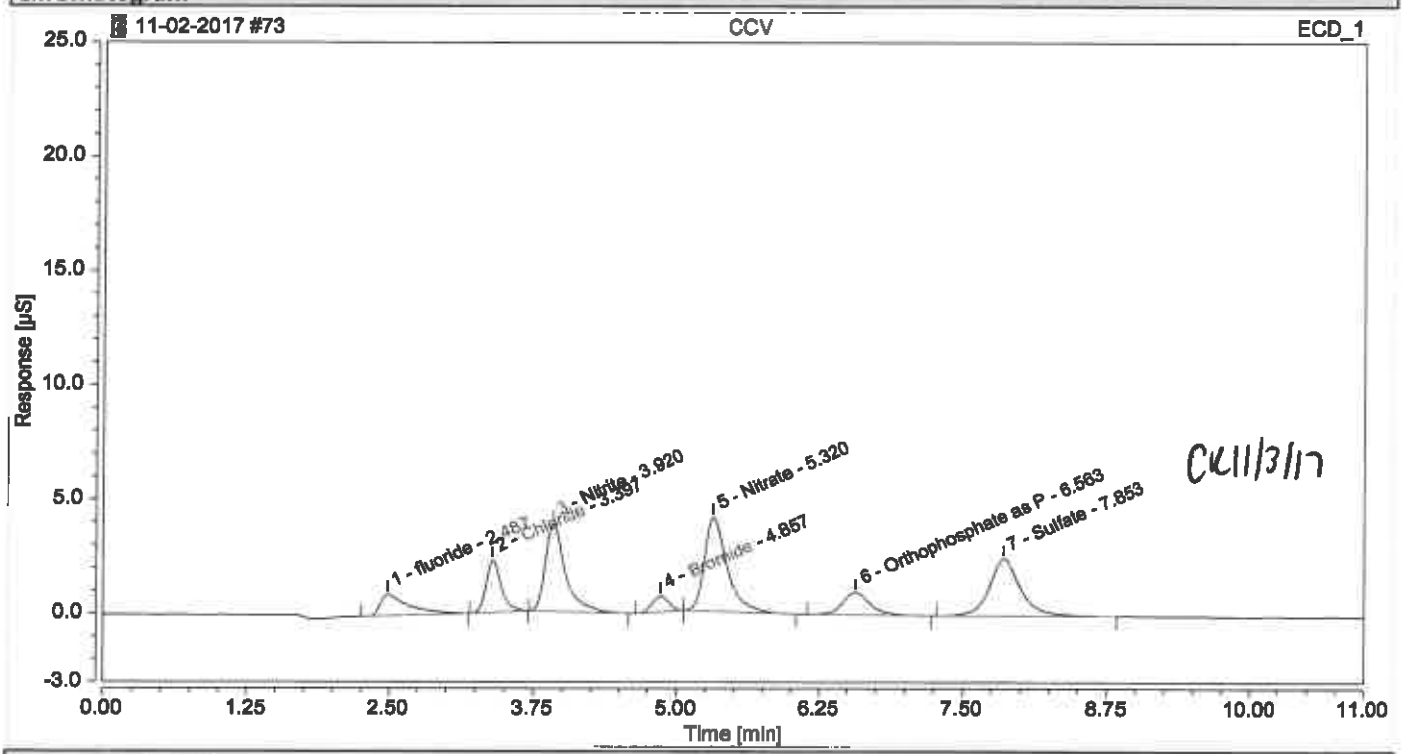
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.870	0.20304	0.637	0.09	0.08	n.a.
2	fluoride	2.483	0.26839	0.972	0.12	0.12	0.6344
3	Chloride	3.563	63.60767	401.982	29.11	48.29	166.5577
4	Nitrite	3.950	0.29557	2.632	0.14	0.32	0.4050
5	Bromide	4.877	0.00995	0.084	0.00	0.01	0.1569
6	Nitrate	5.337	0.93169	4.218	0.43	0.51	0.9952
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	7.653	153.16821	421.913	70.10	50.68	509.3260
Total:			**218.485**	**832.438**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 01:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

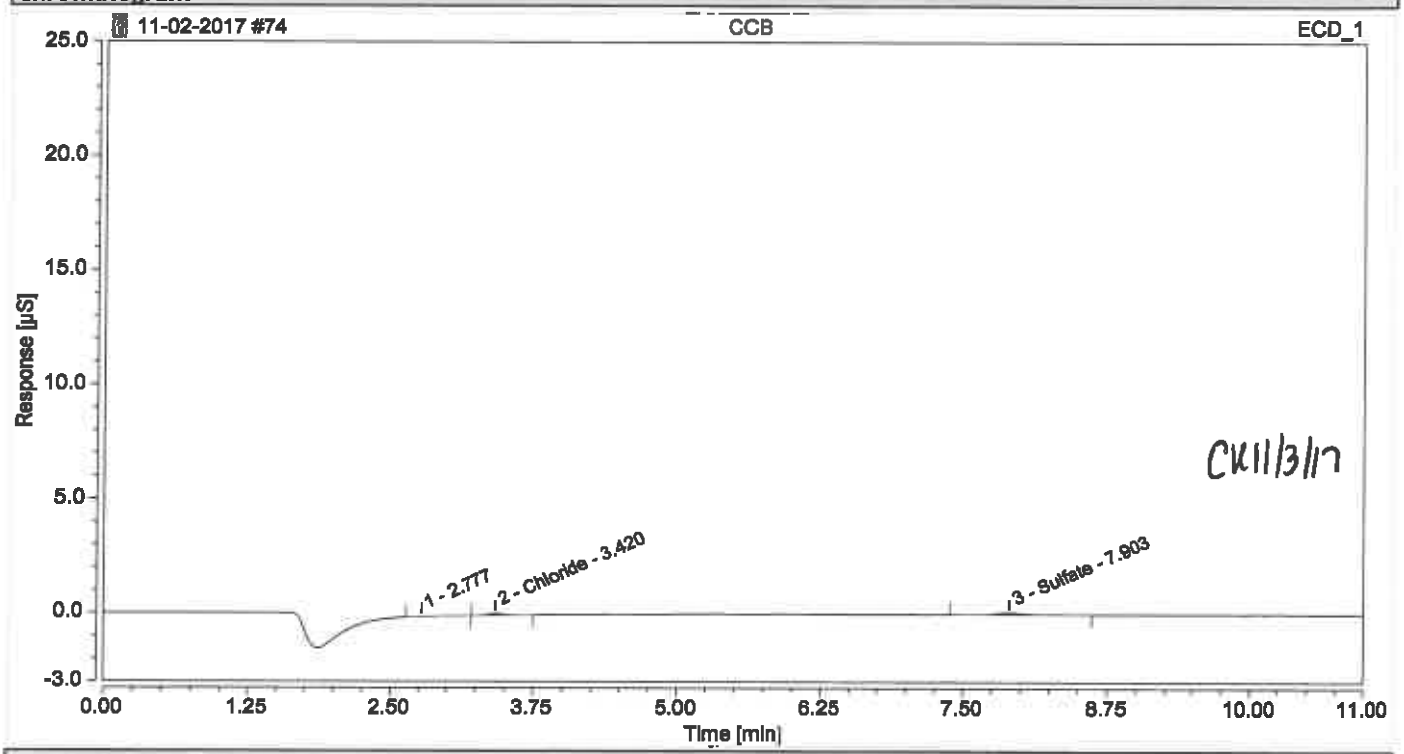
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.487	0.26908	0.932	7.69	6.04	0.6360
2	Chloride	3.397	0.35134	2.294	10.04	14.88	1.0250
3	Nitrite	3.920	0.76963	3.873	21.99	25.13	0.9801
4	Bromide	4.857	0.11473	0.691	3.28	4.48	1.0635
5	Nitrate	5.320	0.93396	4.130	26.69	26.79	0.9974
6	Orthophosphate as P	6.563	0.26962	0.980	7.70	6.36	1.0049
7	Sulfate	7.853	0.79130	2.516	22.61	16.32	2.4574
Total:			**3.500**	**15.416**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 01:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

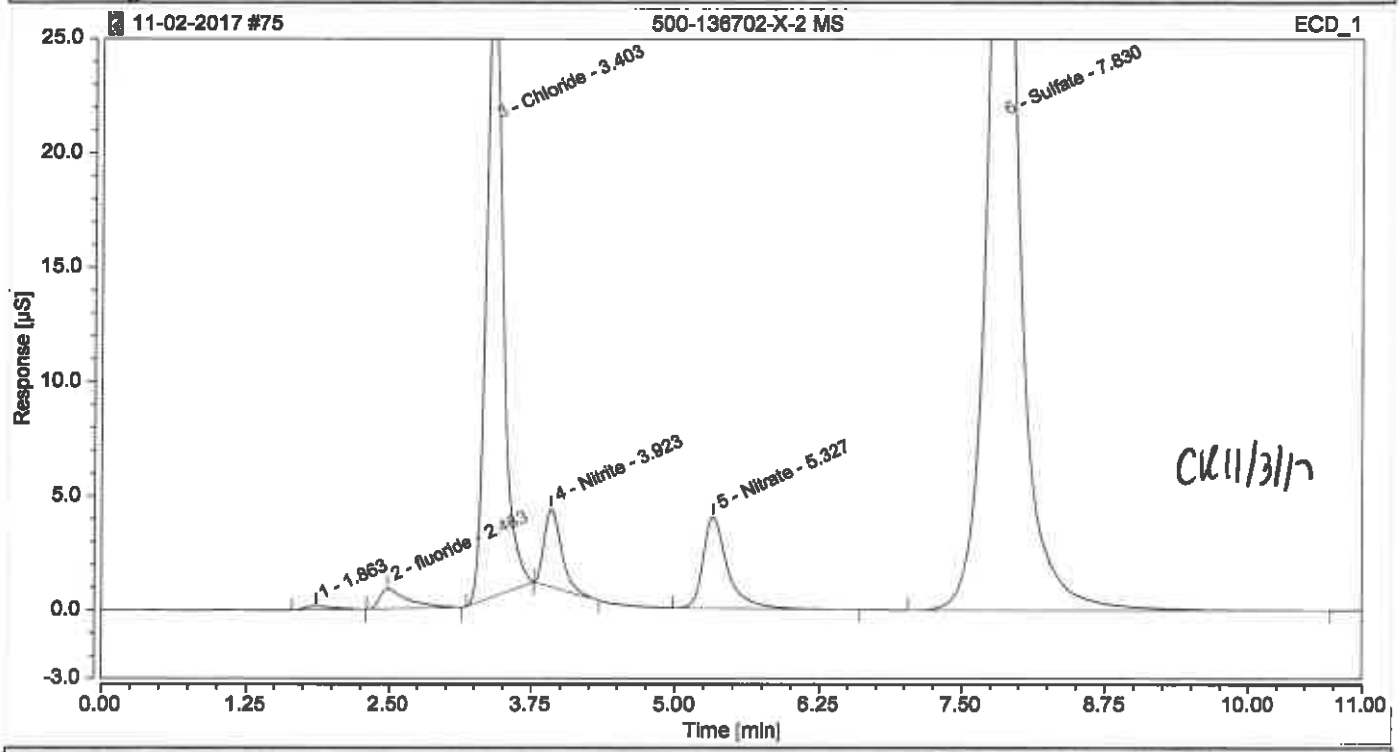
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.777	0.00486	0.013	11.57	8.11	n.a.
2	Chloride	3.420	0.01165	0.075	27.69	46.02	0.1361
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	7.903	0.02555	0.075	60.75	45.87	n.a.
Total:			**0.042**	**0.163**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-2 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GE5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**03/Nov/17 02:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

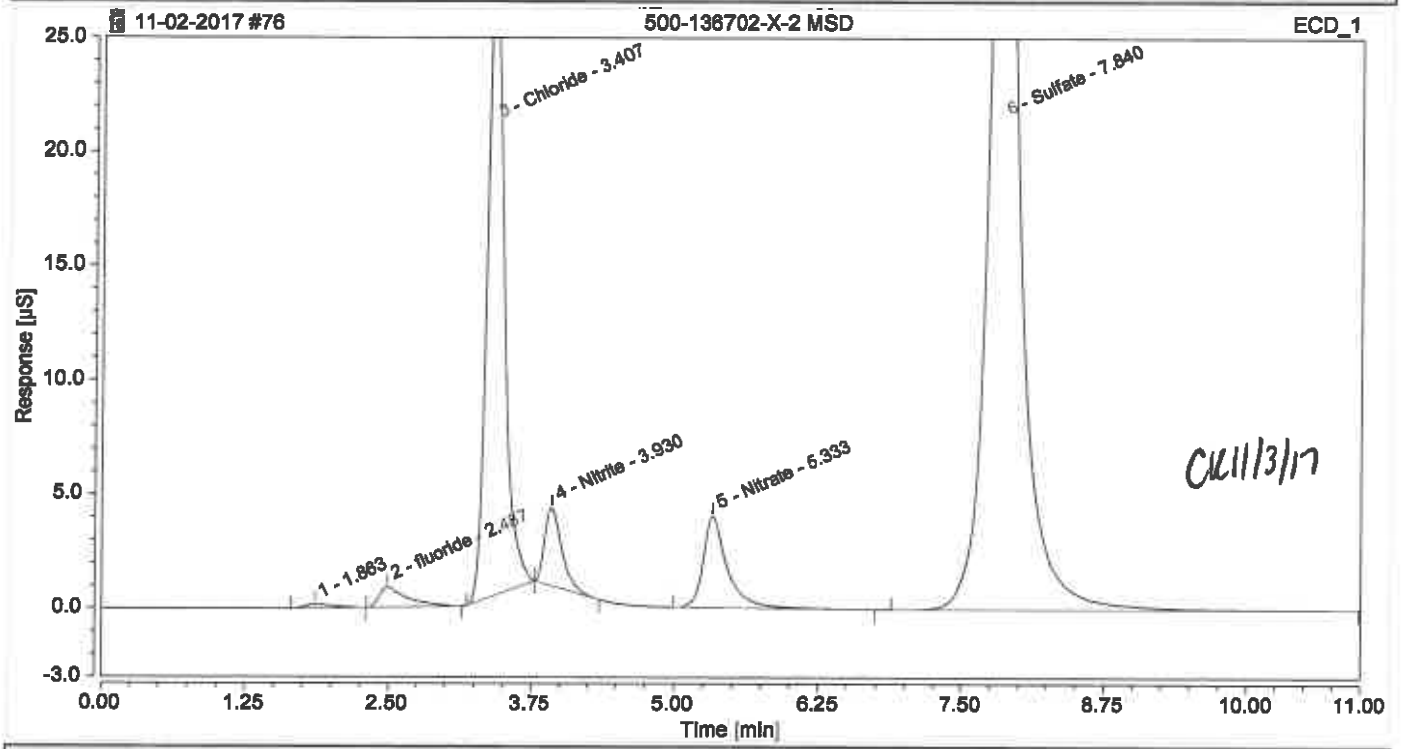
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.04683	0.150	0.24	0.19	n.a.
2	fluoride	2.483	0.24723	0.887	1.27	1.15	5.8215
3	Chloride	3.403	4.73184	27.013	24.35	34.93	124.8814
4	Nitrite	3.923	0.58072	3.409	2.99	4.41	7.5090
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.327	0.98199	4.028	5.05	5.21	10.4544
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	7.830	12.84132	41.853	66.09	54.12	425.4078
Total:			**19.430**	**77.340**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	500-136702-X-2 MSD	*Run Time (min):*	**11.00**
Vial Number:	**GE6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**03/Nov/17 02:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

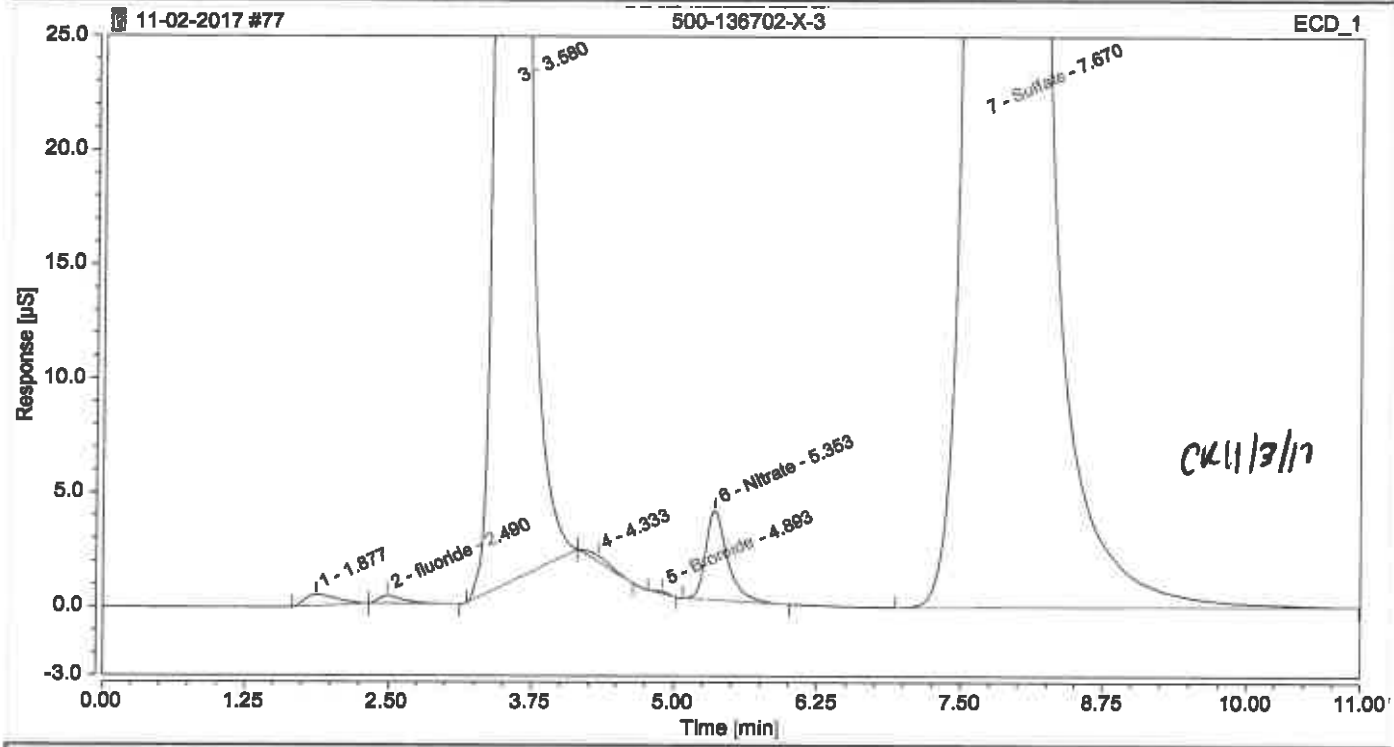
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.863	0.05084	0.163	0.26	0.21	n.a.
2	fluoride	2.487	0.25109	0.892	1.29	1.15	5.9168
3	Chloride	3.407	4.73215	27.361	24.32	35.23	124.8896
4	Nitrite	3.930	0.58562	3.422	3.01	4.41	7.5685
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.333	0.98306	4.026	5.05	5.18	10.4651
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	7.840	12.85808	41.806	66.07	53.83	425.9651
Total:			**19.461**	**77.670**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-3**	*Run Time (min):*	**11.00**
Vial Number:	**GE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 02:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

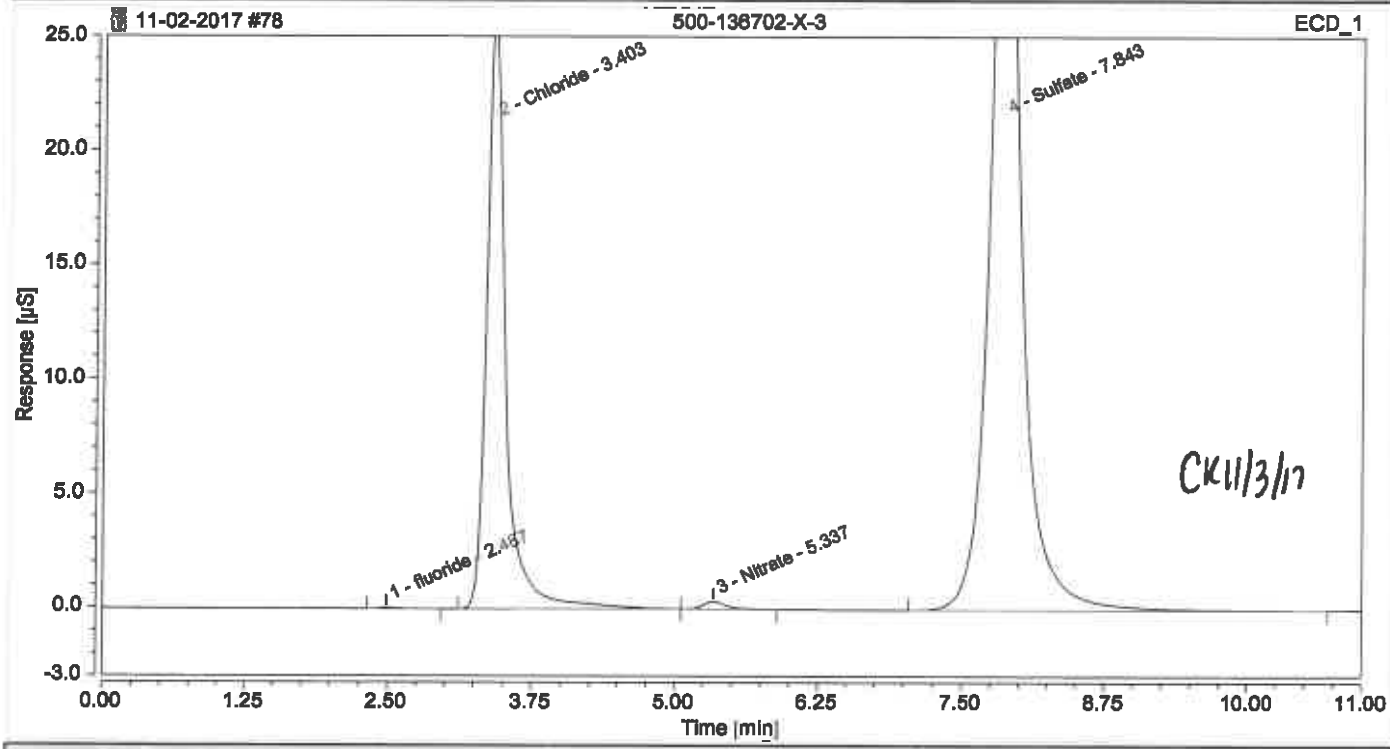
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.877	0.15909	0.486	0.07	0.06	n.a.
2	fluoride RE	2.490	0.08696	0.339	0.04	0.04	0.1869
n.a.	Chloride OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.580	67.08436	413.638	30.54	49.47	n.a.
n.a.	Nitrite CE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.333	0.06388	0.252	0.03	0.03	n.a.
5	Bromide	4.893	0.01102	0.090	0.01	0.01	0.1661
6	Nitrate RE	5.353	0.86759	3.932	0.40	0.47	0.9311
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate OK	7.670	151.36243	417.427	68.92	49.92	503.3192
Total:			**219.635**	**836.163**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136702-X-3**	*Run Time (min):*	**11.00**
Vial Number:	**GE8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**f, CL, NO2, NO3, SO4**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**03/Nov/17 02:45**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

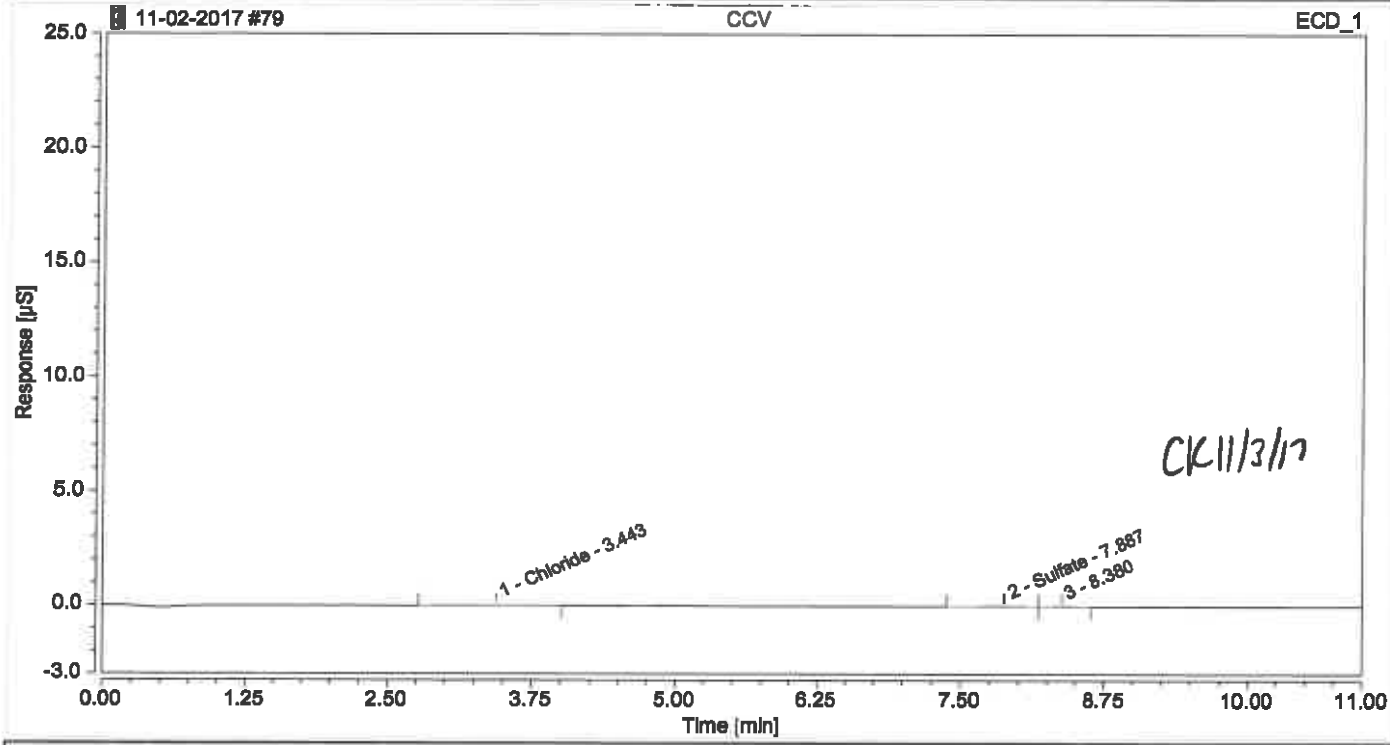
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride NE	2.487	0.01183	0.047	0.07	0.07	0.0157
2	Chloride OK	3.403	5.01053	25.909	29.80	40.18	132.1745
n.a.	Nitrite NE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate NE	5.337	0.07697	0.333	0.46	0.52	1.4095
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate OK	7.843	11.71481	38.199	69.67	59.23	387.9352
Total:			**16.814**	**64.487**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 02:58**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

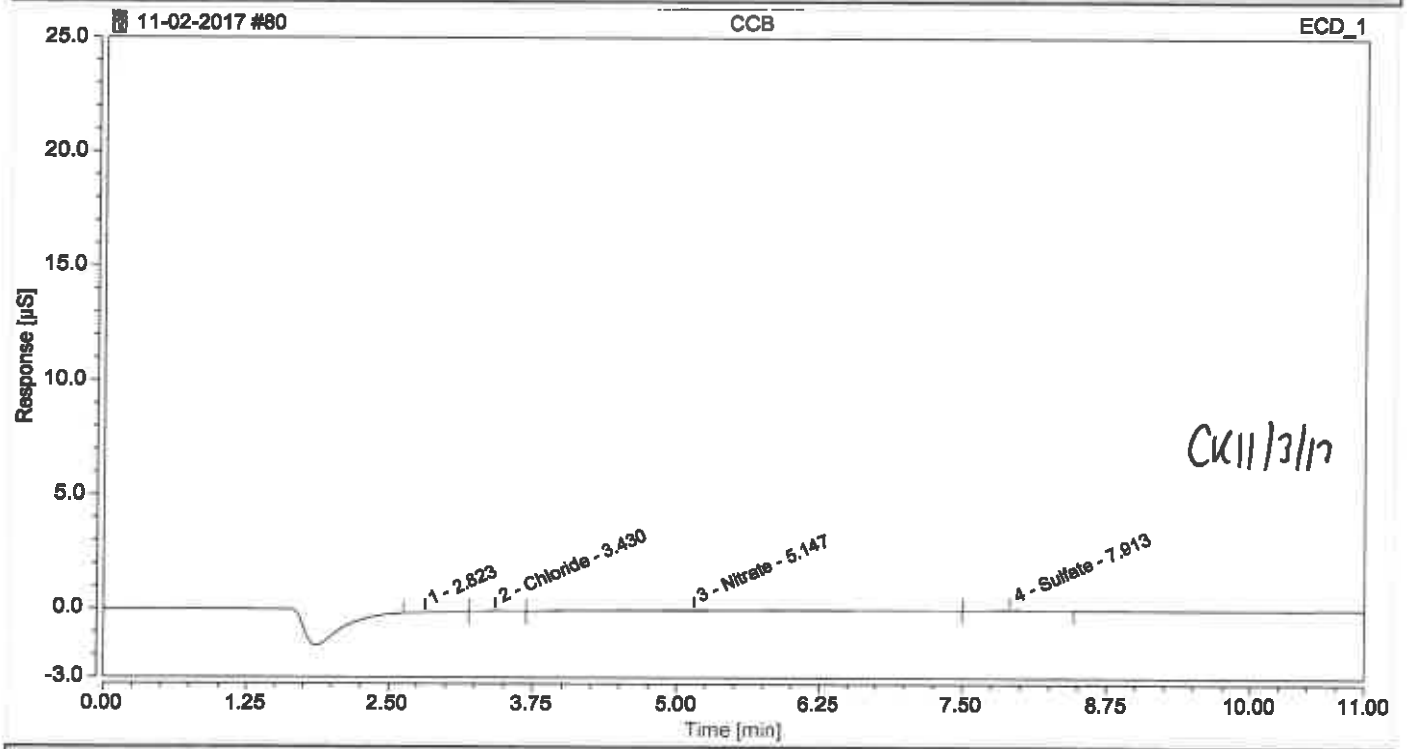
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.443	0.00775	0.014	49.09	33.51	0.1259
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.887	0.00602	0.020	38.14	46.34	n.a.
3		8.380	0.00201	0.009	12.77	20.15	n.a.
Total:			**0.016**	**0.043**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Nov/17 03:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.823	0.00469	0.012	3.78	10.09	n.a.
2	Chloride	3.430	0.00594	0.034	4.78	27.69	0.1211
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.147	0.10221	0.042	82.39	33.92	0.1662
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	7.913	0.01122	0.035	9.05	28.30	n.a.
Total:			**0.124**	**0.123**	**100.00**	**100.00**	

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00015
ICV~500-408255/1		9056A		100 mL	100 mL		300 uL		100 uL
500-136564-A-8	North Final	300	T						
500-136564-A-8~MS		300	T	100 mL	100 mL		100 uL		
500-136564-A-8~MSD		300	T	100 mL	100 mL		100 uL		
CCV~500-408255/5		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/6		300							
500-136029-L-1	OMW2D-GW-101917	9056A	T						
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL				
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL				
500-135786-Y-1	TB-120	9056A	T						
500-135786-Y-1	TB-120	9056A	T						
ICB~500-408255/12		300							
500-135786-Y-2	TB-120 DUP	9056A	T						
500-135786-Y-2	TB-120 DUP	9056A	T						
500-136098-I-1	Outfall 001 - Composite	300	T						
500-135786-Y-1	TB-120	9056A	T						
500-135786-Y-2	TB-120 DUP	9056A	T						
CCV~500-408255/18		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/19		9056A							
MB~500-408255/20		300							
LCS~500-408255/21		300		100 mL	100 mL		300 uL		100 uL
500-136632-V-2	MC-G01-110117	9056A	T						
500-136632-V-3	MC-G07-110117	9056A	T						
500-136264-B-2	Sump 8 Comp	300	T						
500-135898-D-1	LS-1 501	300	T						

PP00 00 4016 59

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNI1_00010	WSTICNO2II_00013	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
ICV~500-408255/1		9056A				200 uL	200 uL		500 uL
500-136564-A-8	North Final	300	T						
500-136564-A-8~MS		300	T						
500-136564-A-8~MSD		300	T						
CCV~500-408255/5		300		100 uL	100 uL			250 uL	
CCB~500-408255/6		300							
500-136029-L-1	OMW2D-GW-101917	9056A	T						
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T						250 uL
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T						250 uL
500-135786-Y-1	TB-120	9056A	T						
500-135786-Y-1	TB-120	9056A	T						
ICB~500-408255/12		300							
500-135786-Y-2	TB-120 DUP	9056A	T						
500-135786-Y-2	TB-120 DUP	9056A	T						
500-136098-I-1	Outfall 001 - Composite	300	T						
500-135786-Y-1	TB-120	9056A	T						
500-135786-Y-2	TB-120 DUP	9056A	T						
CCV~500-408255/18		9056A		100 uL	100 uL			250 uL	
CCB~500-408255/19		9056A							
MB~500-408255/20		300							
LCS~500-408255/21		300				200 uL	200 uL		500 uL
500-136632-V-2	MC-G01-110117	9056A	T						
500-136632-V-3	MC-G07-110117	9056A	T						
500-136264-B-2	Sump 8 Comp	300	T						
500-135898-D-1	LS-1 501	300	T						

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General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00015
500-135898-D-2	LS-2 502	300	T						
500-136098-I-1~MS		300		100 mL	100 mL				60 uL
500-136098-I-1~MSD		300		100 mL	100 mL				60 uL
500-135617-A-8	HAW-1017-25	9056A	T						
500-135617-A-8	HAW-1017-25	9056A	T						
500-135617-A-10	HAW-1017-40	9056A	T						
500-135617-A-10	HAW-1017-40	9056A	T						
500-135617-A-12	HAW-1017-28	9056A	T						
500-135617-A-12	HAW-1017-28	9056A	T						
500-135617-A-14	HAW-1017-29	9056A	T						
500-135617-A-14	HAW-1017-29	9056A	T						
CCV~500-408255/3		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/3		9056A							
500-135617-A-16	HAW-1017-24	9056A	T						
500-135617-A-16	HAW-1017-24	9056A	T						
500-135617-A-18	HAW-1017-39	9056A	T						
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T	100 mL	100 mL		100 uL		
500-135607-L-5	MW-21220171012	300	T						
500-135607-L-5	MW-21220171012	300	T						
500-135607-L-6	MW-20520171012	300	T						
500-135607-L-6	MW-20520171012	300	T						
500-135607-L-7	MW-20620171012	300	T						
CCV~500-408255/49		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/50		9056A							

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNI1_00010	WSTICNO2II_00013	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
500-135898-D-2	LS-2 502	300	T						
500-136098-I-1~MS		300							
500-136098-I-1~MSD		300							
500-135617-A-8	HAW-1017-25	9056A	T						
500-135617-A-8	HAW-1017-25	9056A	T						
500-135617-A-10	HAW-1017-40	9056A	T						
500-135617-A-10	HAW-1017-40	9056A	T						
500-135617-A-12	HAW-1017-28	9056A	T						
500-135617-A-12	HAW-1017-28	9056A	T						
500-135617-A-14	HAW-1017-29	9056A	T						
500-135617-A-14	HAW-1017-29	9056A	T						
CCV~500-408255/3		9056A		100 uL	100 uL			250 uL	
CCB~500-408255/3		9056A							
500-135617-A-16	HAW-1017-24	9056A	T						
500-135617-A-16	HAW-1017-24	9056A	T						
500-135617-A-18	HAW-1017-39	9056A	T						
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T						
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T						
500-135607-L-5	MW-21220171012	300	T						
500-135607-L-5	MW-21220171012	300	T						
500-135607-L-6	MW-20520171012	300	T						
500-135607-L-6	MW-20520171012	300	T						
500-135607-L-7	MW-20620171012	300	T						
CCV~500-408255/49		9056A		100 uL	100 uL			250 uL	
CCB~500-408255/50		9056A							

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00015
500-135607-L-7	MW-20620171012	300	T						
500-136039-W-1	TB-124	9056A	T						
500-136039-W-1	TB-124	9056A	T						
MB~500-408255/54		9056A							
LCS~500-408255/55		9056A		100 mL	100 mL		300 uL		100 uL
500-136039-W-2	TB-122	9056A	T						
500-136039-W-2	TB-122	9056A	T						
500-136039-W-2	TB-122	9056A	T						
500-136006-B-1	4L-37215	300	D						
500-136006-B-1	4L-37215	300	D						
CCV~500-408255/6		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/6		300							
500-136006-B-2	5L-37216	300	D						
500-136006-B-2	5L-37216	300	D						
500-136006-B-3	6L-37217	300	D						
500-136006-B-3	6L-37217	300	D						
500-136702-X-1	MC-G03-110217	9056A	T						
500-136702-X-1	MC-G03-110217	9056A	T						
500-136702-X-2	MC-G06-110217	9056A	T						
500-136702-X-2	MC-G06-110217	9056A	T						
500-136702-X-2~MS	MC-G06-110217	9056A	T	100 mL	100 mL		100 uL		60 uL
500-136702-X-2~MSD	MC-G06-110217	9056A	T	100 mL	100 mL		100 uL		60 uL
CCV~500-408255/73		300		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/74		300							
500-136702-X-2~MS	MC-G06-110217	9056A	T	100 mL	100 mL		100 uL		60 uL

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General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNI1_00010	WSTICNO2II_00013	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
500-135607-L-7	MW-20620171012	300	T						
500-136039-W-1	TB-124	9056A	T						
500-136039-W-1	TB-124	9056A	T						
MB~500-408255/54		9056A							
LCS~500-408255/55		9056A				200 uL	200 uL		500 uL
500-136039-W-2	TB-122	9056A	T						
500-136039-W-2	TB-122	9056A	T						
500-136039-W-2	TB-122	9056A	T						
500-136006-B-1	4L-37215	300	D						
500-136006-B-1	4L-37215	300	D						
CCV~500-408255/61		300		100 uL	100 uL			250 uL	
CCB~500-408255/62		300							
500-136006-B-2	5L-37216	300	D						
500-136006-B-2	5L-37216	300	D						
500-136006-B-3	6L-37217	300	D						
500-136006-B-3	6L-37217	300	D						
500-136702-X-1	MC-G03-110217	9056A	T						
500-136702-X-1	MC-G03-110217	9056A	T						
500-136702-X-2	MC-G06-110217	9056A	T						
500-136702-X-2	MC-G06-110217	9056A	T						
500-136702-X-2~MS	MC-G06-110217	9056A	T			100 uL	100 uL		250 uL
500-136702-X-2~MSD	MC-G06-110217	9056A	T			100 uL	100 uL		250 uL
CCV~500-408255/73		300		100 uL	100 uL			250 uL	
CCB~500-408255/74		300							
500-136702-X-2~MS	MC-G06-110217	9056A	T			100 uL	100 uL		250 uL

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICF1_00010	WSTICF2_00015
500-136702-X-2~MSD	MC-G06-110217	9056A	T	100 mL	100 mL		100 uL		60 uL
500-136702-X-3	MC-G06-110217-A	9056A	T						
500-136702-X-3	MC-G06-110217-A	9056A	T						
CCV~500-408255/79		9056A		100 mL	100 mL	100 uL		60 uL	
CCB~500-408255/80		9056A							

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICN031_00007	WSTICNI1_00010	WSTICNO2II_00013	WSTICNO32_00014	WSTICS1_00010	WSTICS2_00012
500-136702-X-2~MSD	MC-G06-110217	9056A	T			100 uL	100 uL		250 uL
500-136702-X-3	MC-G06-110217-A	9056A	T						
500-136702-X-3	MC-G06-110217-A	9056A	T						
CCV~500-408255/79		9056A		100 uL	100 uL			250 uL	
CCB~500-408255/80		9056A							

Filter ID: WHATMAN-9814904-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 ID: ELUENTCONC00023
Regeneration Solution ID: NA
Ethylenediamine ID: NA

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
ICV~500-408255/1		9056A			
500-136564-A-8	North Final	300	T		
500-136564-A-8~MS		300	T		
500-136564-A-8~MSD		300	T		
CCV~500-408255/5		300			
CCB~500-408255/6		300			
500-136029-L-1	OMW2D-GW-101917	9056A	T		
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T		
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T		
500-135786-Y-1	TB-120	9056A	T		
500-135786-Y-1	TB-120	9056A	T		
CCB~500-408255/12		300			
500-135786-Y-2	TB-120 DUP	9056A	T		
500-135786-Y-2	TB-120 DUP	9056A	T		
500-136098-I-1	Outfall 001 - Composite	300	T		
500-135786-Y-1	TB-120	9056A	T		
500-135786-Y-2	TB-120 DUP	9056A	T		
CCV~500-408255/18		9056A			
CCB~500-408255/19		9056A			
MB~500-408255/20		300			
LCS~500-408255/21		300			
500-136632-V-2	MC-G01-110117	9056A	T		
500-136632-V-3	MC-G07-110117	9056A	T		
500-136264-B-2	Sump 8 Comp	300	T		
500-135898-D-1	LS-1 501	300	T		

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General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-135898-D-2	LS-2 502	300	T		
500-136098-I-1~MS		300			
500-136098-I-1~MSD		300			
500-135617-A-8	HAW-1017-25	9056A	T		
500-135617-A-8	HAW-1017-25	9056A	T		
500-135617-A-10	HAW-1017-40	9056A	T		
500-135617-A-10	HAW-1017-40	9056A	T		
500-135617-A-12	HAW-1017-28	9056A	T		
500-135617-A-12	HAW-1017-28	9056A	T		
500-135617-A-14	HAW-1017-29	9056A	T		
500-135617-A-14	HAW-1017-29	9056A	T		
CCV~500-408255/3		9056A			
CCB~500-408255/3		9056A			
500-135617-A-16	HAW-1017-24	9056A	T		
500-135617-A-16	HAW-1017-24	9056A	T		
500-135617-A-18	HAW-1017-39	9056A	T		
500-136029-L-1~MS	OMW2D-GW-101917	9056A	T		
500-136029-L-1~MSD	OMW2D-GW-101917	9056A	T		
500-135607-L-5	MW-21220171012	300	T		
500-135607-L-5	MW-21220171012	300	T		
500-135607-L-6	MW-20520171012	300	T		
500-135607-L-6	MW-20520171012	300	T		
500-135607-L-7	MW-20620171012	300	T		
CCV~500-408255/49		9056A			
CCB~500-408255/50		9056A			

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-135607-L-7	MW-20620171012	300	T		
500-136039-W-1	TB-124	9056A	T		
500-136039-W-1	TB-124	9056A	T		
MB~500-408255/54		9056A			
LCS~500-408255/55		9056A			
500-136039-W-2	TB-122	9056A	T		
500-136039-W-2	TB-122	9056A	T		
500-136039-W-2	TB-122	9056A	T		
500-136006-B-1	4L-37215	300	D		
500-136006-B-1	4L-37215	300	D		
CCV~500-408255/61		300			
CCB~500-408255/64		300			
500-136006-B-2	5L-37216	300	D		
500-136006-B-2	5L-37216	300	D		
500-136006-B-3	6L-37217	300	D		
500-136006-B-3	6L-37217	300	D		
500-136702-X-1	MC-G03-110217	9056A	T		
500-136702-X-1	MC-G03-110217	9056A	T		
500-136702-X-2	MC-G06-110217	9056A	T		
500-136702-X-2	MC-G06-110217	9056A	T		
500-136702-X-2~MSD	MC-G06-110217	9056A	T		
500-136702-X-2~MSD	MC-G06-110217	9056A	T		
CCV~500-408255/73		300			
CCB~500-408255/74		300			
500-136702-X-2~MS	MC-G06-110217	9056A	T		

General Chemistry Worksheet

Batch Number: 500-408255
Method: 300.0
Analyst: Krupa, Colleen C

Date Open: Nov 02 2017 10:31AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-136702-X-2~MSD	MC-G06-110217	9056A	T		
500-136702-X-3	MC-G06-110217-A	9056A	T		
500-136702-X-3	MC-G06-110217-A	9056A	T		
CCV~500-408255/79		9056A			
CCB~500-408255/80		9056A			

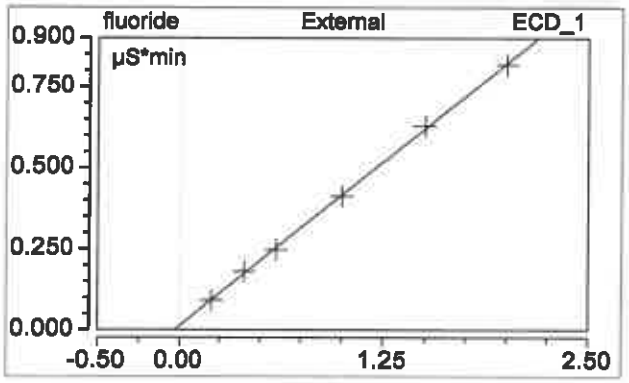
Batch Comment: AG14A-5UM/AS14A-5UM

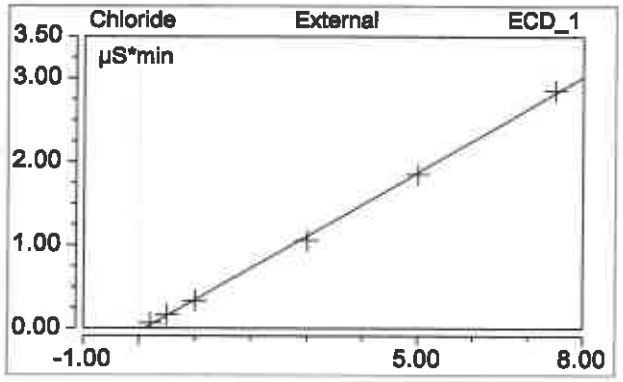
6 Curve 6

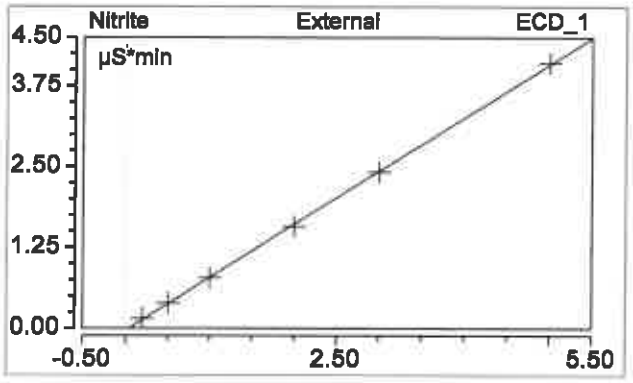
Operator:n.a. Timebase:ICS1100_1 Sequence:CAL 10-26-2017

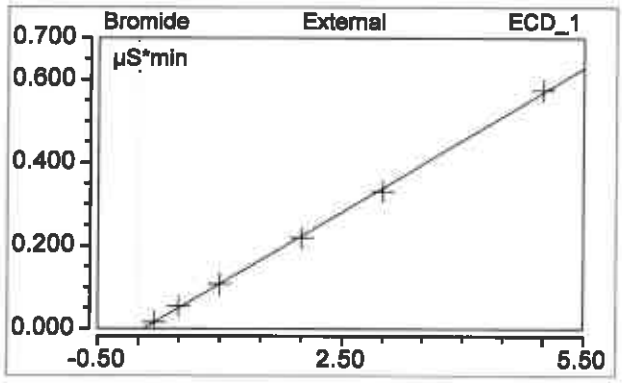
IC Stock I 11/3/2017 8:40 AM

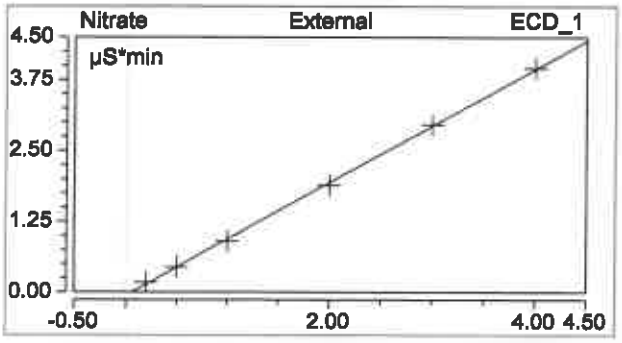
Sample Name:	**Curve 6**	*Injection Volume:*	**25.0**
Vial Number:	**RE6**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Seven Anions**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/26/2017 17:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

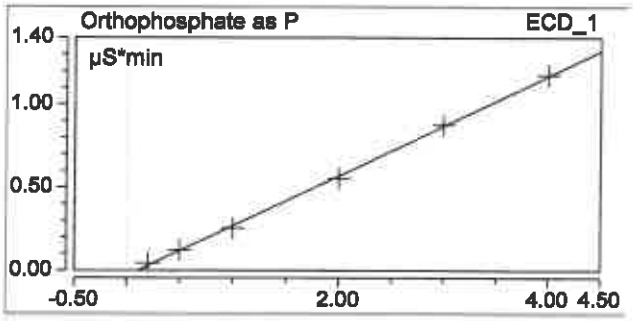




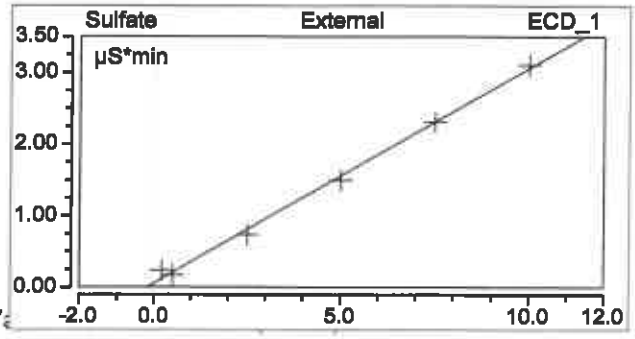








Colleen Kuma 10/26/17



Chromeleon (c) Dionex 1996-2001
Version 7.2.4.8179

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	R-Square %
1	2.50	fluoride	n, WithOffs	6	99.9696	0.0112	0.4054	99.939
2	3.42	Chloride	n, WithOffs	6	99.9580	-0.0404	0.3821	99.916
3	3.96	Nitrite	n, WithOffs	6	99.9884	-0.0383	0.8243	99.977
4	4.90	Bromide	n, WithOffs	6	99.9717	-0.0082	0.1156	99.943
5	5.35	Nitrate	n, WithOffs	6	99.9722	-0.0641	1.0006	99.944
6	6.65	Orthophosphate as	n, WithOffs	6	99.9607	-0.0323	0.3005	99.921
7	7.94	Sulfate	n, WithOffs	6	99.8075	0.0525	0.3006	99.615
Average:					99.9469	-0.0171	0.4756	99.8938

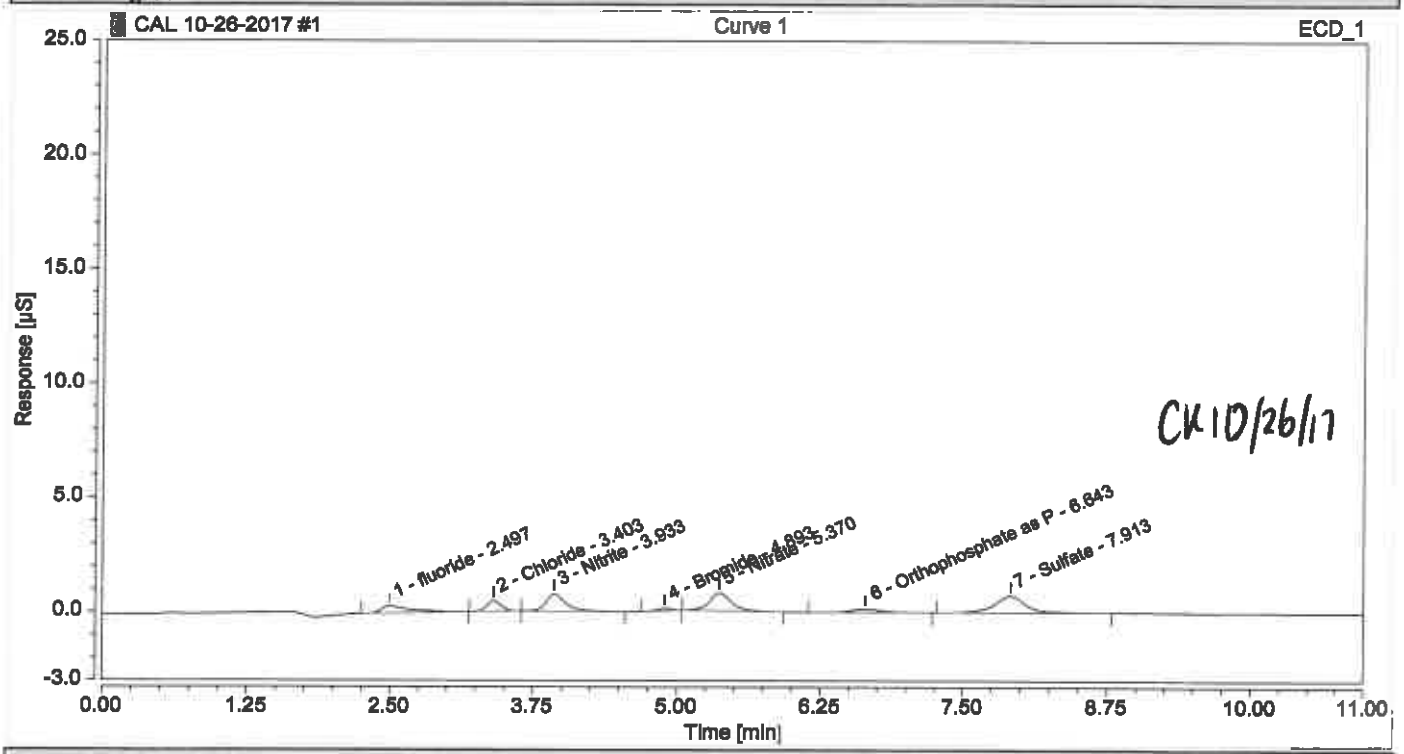
Colleen Kuupa 10/26/17

Chromatogram and Results

Injection Details

Injection Name:	**Curve 1**	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**01**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 16:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

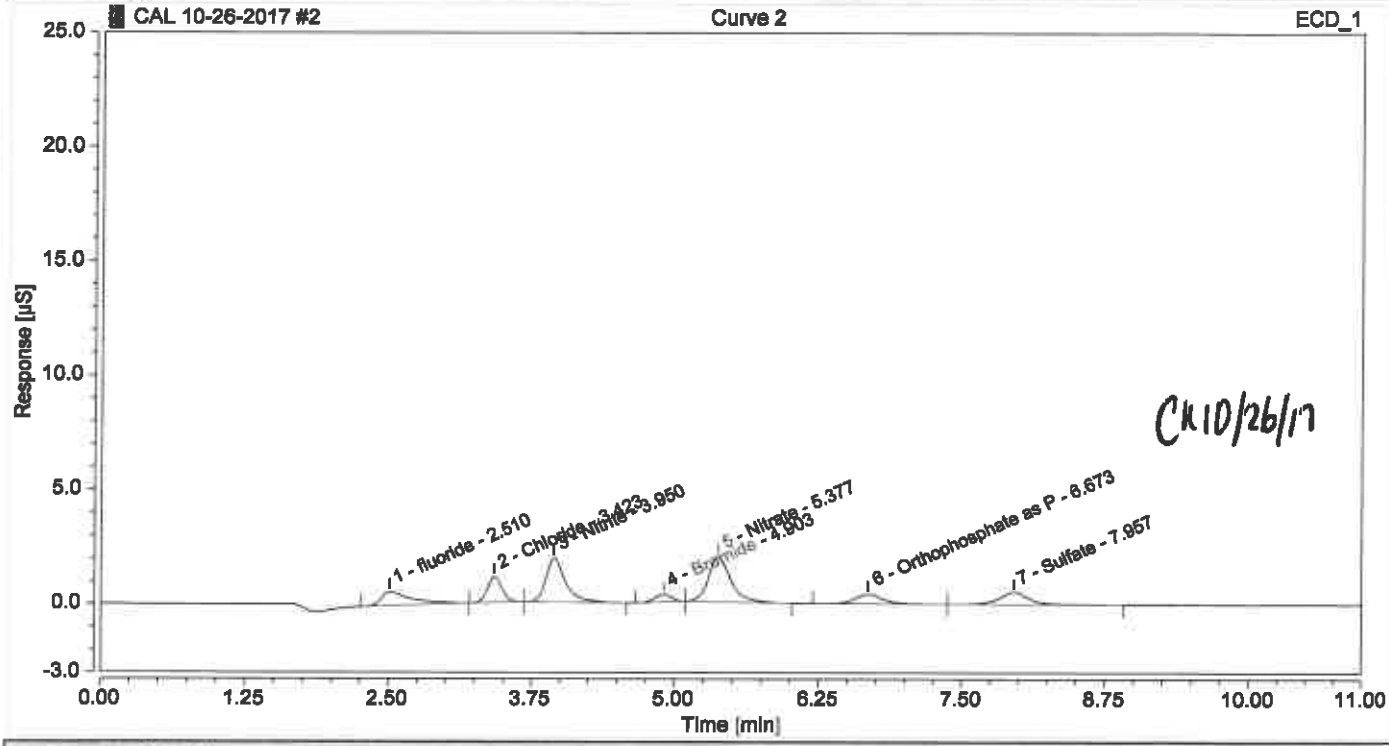
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.497	0.09136	0.297	11.76	9.06	0.1977
2	Chloride	3.403	0.06738	0.459	8.68	14.02	0.2819
3	Nitrite	3.933	0.14953	0.759	19.25	23.17	0.2278
4	Bromide	4.893	0.01592	0.107	2.05	3.26	0.2086
5	Nitrate	5.370	0.17599	0.777	22.66	23.73	0.2399
6	Orthophosphate as P	6.643	0.04339	0.145	5.59	4.43	0.2520
7	Sulfate	7.913	0.23312	0.731	30.02	22.33	0.6007
Total:			**0.777**	**3.275**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 2**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**02**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 16:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

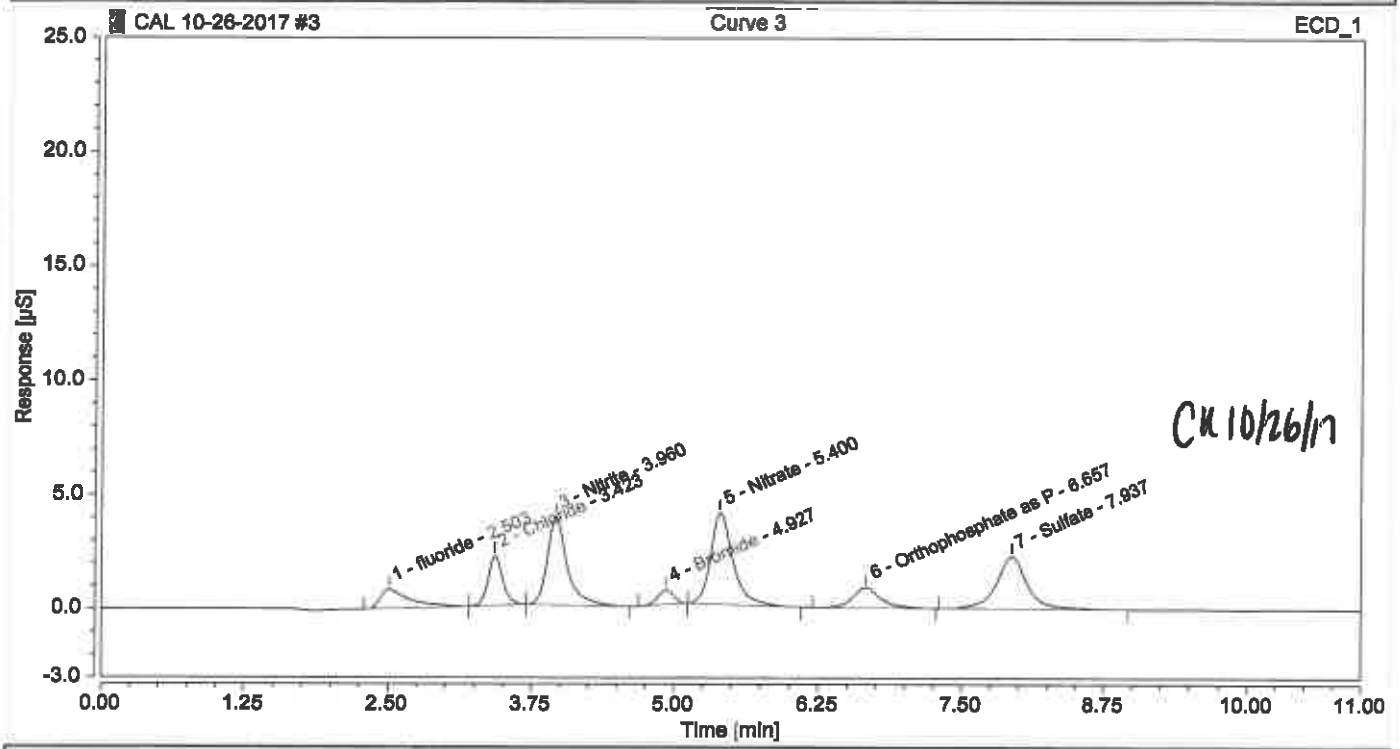
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.18064	0.594	11.86	8.55	0.4179
2	Chloride	3.423	0.16697	1.130	10.96	16.26	0.5426
3	Nitrite	3.950	0.38497	1.943	25.28	27.97	0.5134
4	Bromide	4.903	0.05393	0.329	3.54	4.73	0.5375
5	Nitrate	5.377	0.44707	1.999	29.35	28.78	0.5108
6	Orthophosphate as P	6.673	0.12113	0.420	7.95	6.05	0.5107
7	Sulfate	7.957	0.16830	0.532	11.05	7.65	0.3851
Total:			**1.523**	**6.946**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 3**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 16:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

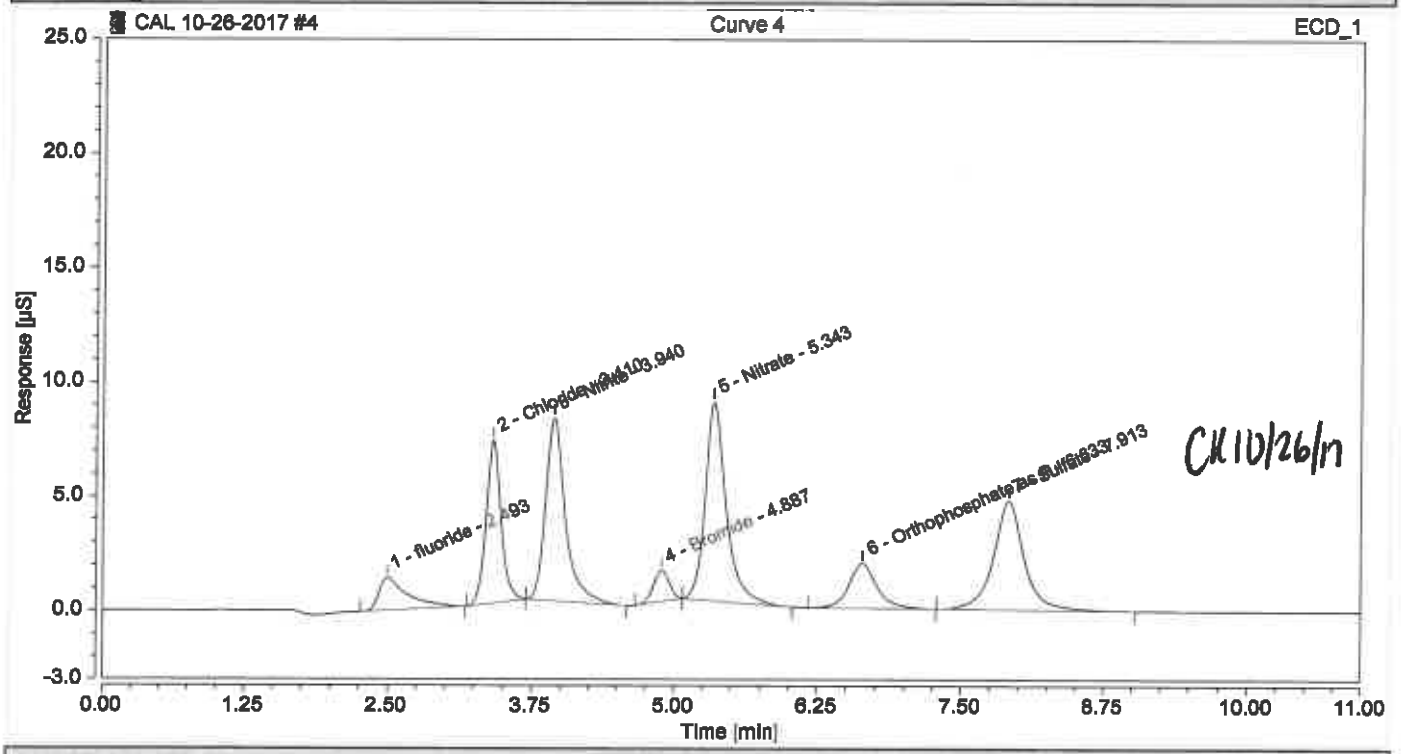
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.503	0.24717	0.848	7.38	5.73	0.5820
2	Chloride	3.423	0.33045	2.188	9.87	14.80	0.9704
3	Nitrite	3.960	0.77947	3.885	23.27	26.27	0.9920
4	Bromide	4.927	0.10814	0.655	3.23	4.43	1.0065
5	Nitrate	5.400	0.90052	4.023	26.89	27.21	0.9640
6	Orthophosphate as P	6.657	0.25260	0.886	7.54	5.99	0.9483
7	Sulfate	7.937	0.73118	2.303	21.83	15.57	2.2574
Total:			**3.350**	**14.787**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 4**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 16:58**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

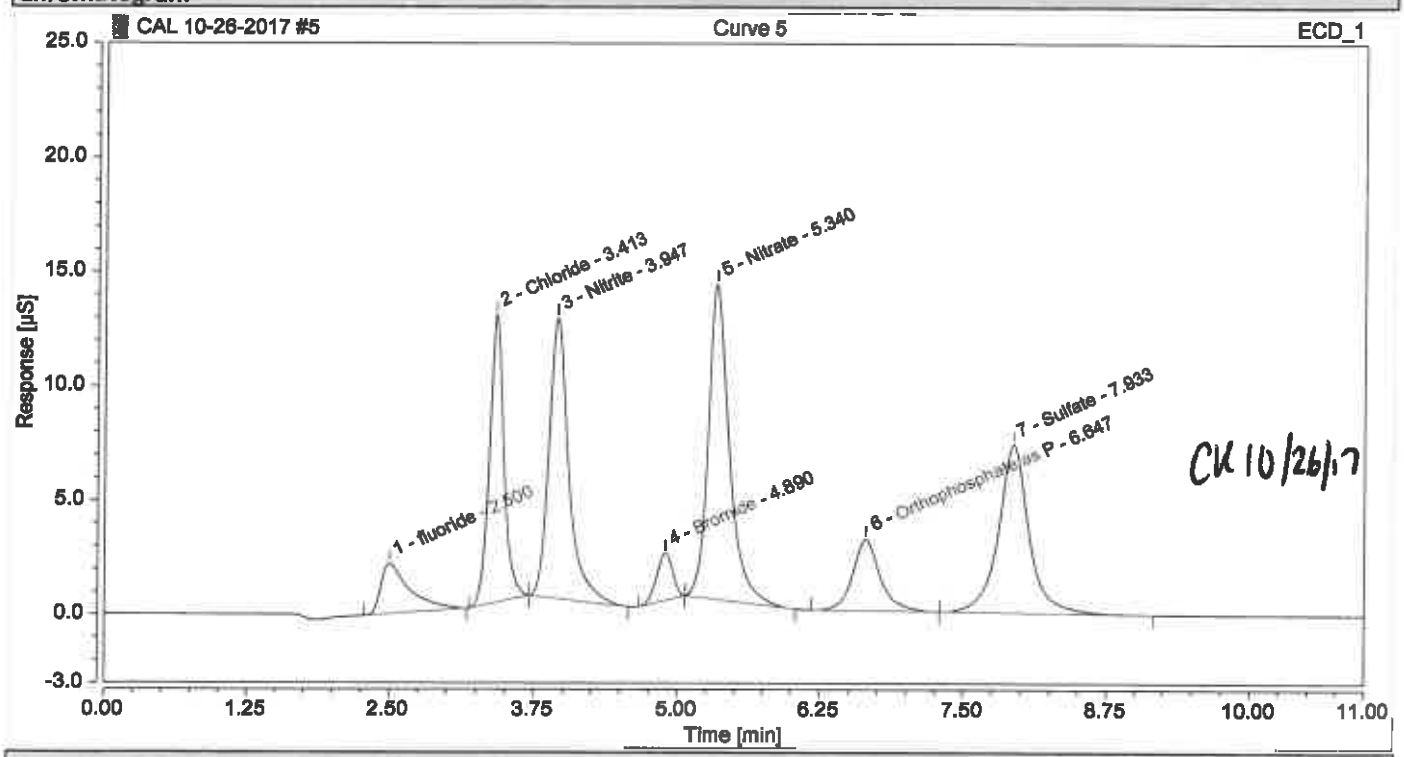
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.493	0.41206	1.440	5.73	4.31	0.9887
2	Chloride	3.410	1.05733	7.140	14.69	21.35	2.8725
3	Nitrite	3.940	1.57519	8.030	21.89	24.01	1.9573
4	Bromide	4.887	0.21893	1.362	3.04	4.07	1.9651
5	Nitrate	5.343	1.88632	8.716	26.21	26.06	1.9492
6	Orthophosphate as P	6.633	0.55344	1.969	7.69	5.89	1.9495
7	Sulfate	7.913	1.49297	4.787	20.75	14.31	4.7914
Total:			**7.196**	**33.445**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 5**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**05**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 17:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

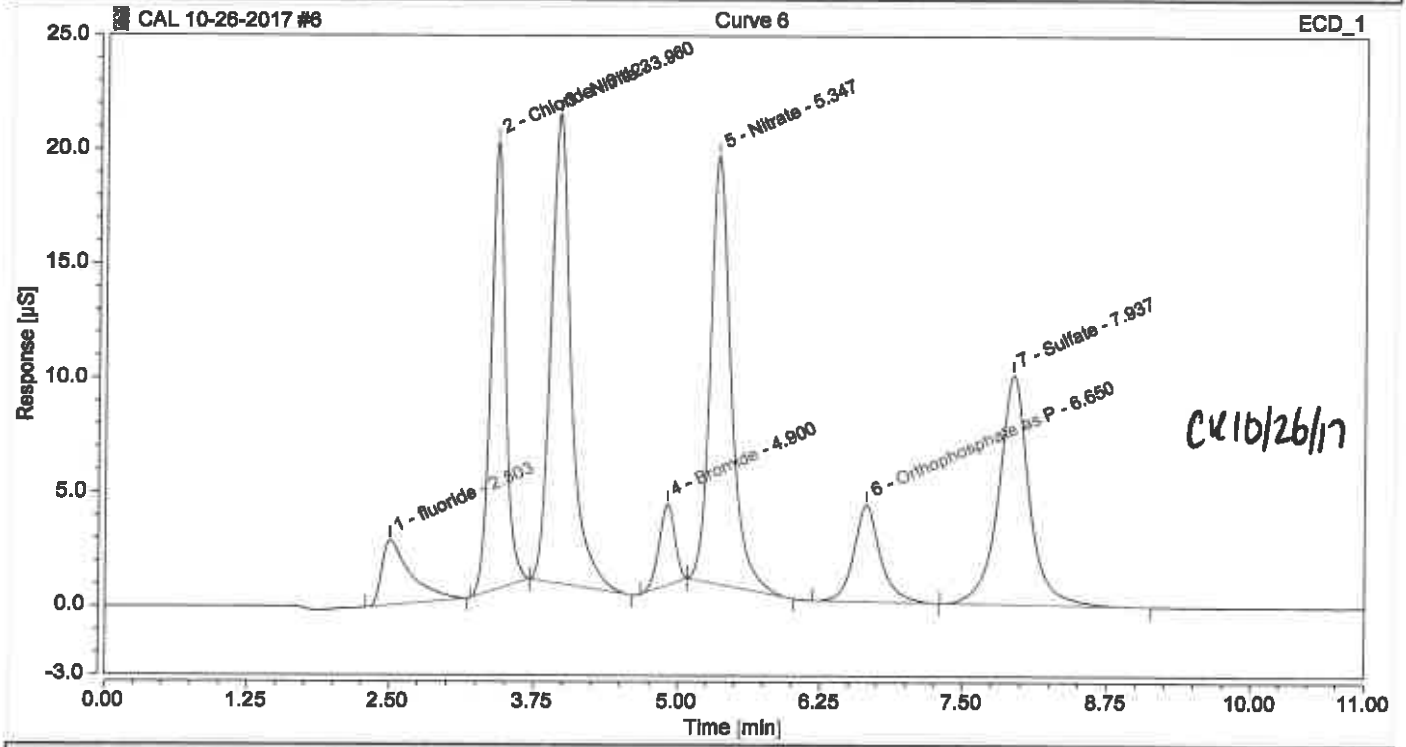
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.500	0.62909	2.205	5.53	4.12	1.5240
2	Chloride	3.413	1.85051	12.606	16.27	23.55	4.9481
3	Nitrite	3.947	2.42074	12.304	21.28	22.99	2.9831
4	Bromide	4.890	0.33096	2.078	2.91	3.88	2.9344
5	Nitrate	5.340	2.95761	13.801	26.00	25.79	3.0199
6	Orthophosphate as P	6.647	0.87543	3.130	7.70	5.85	3.0212
7	Sulfate	7.933	2.31049	7.397	20.31	13.82	7.5109
Total:			**11.375**	**53.520**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 6**	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**06**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 17:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

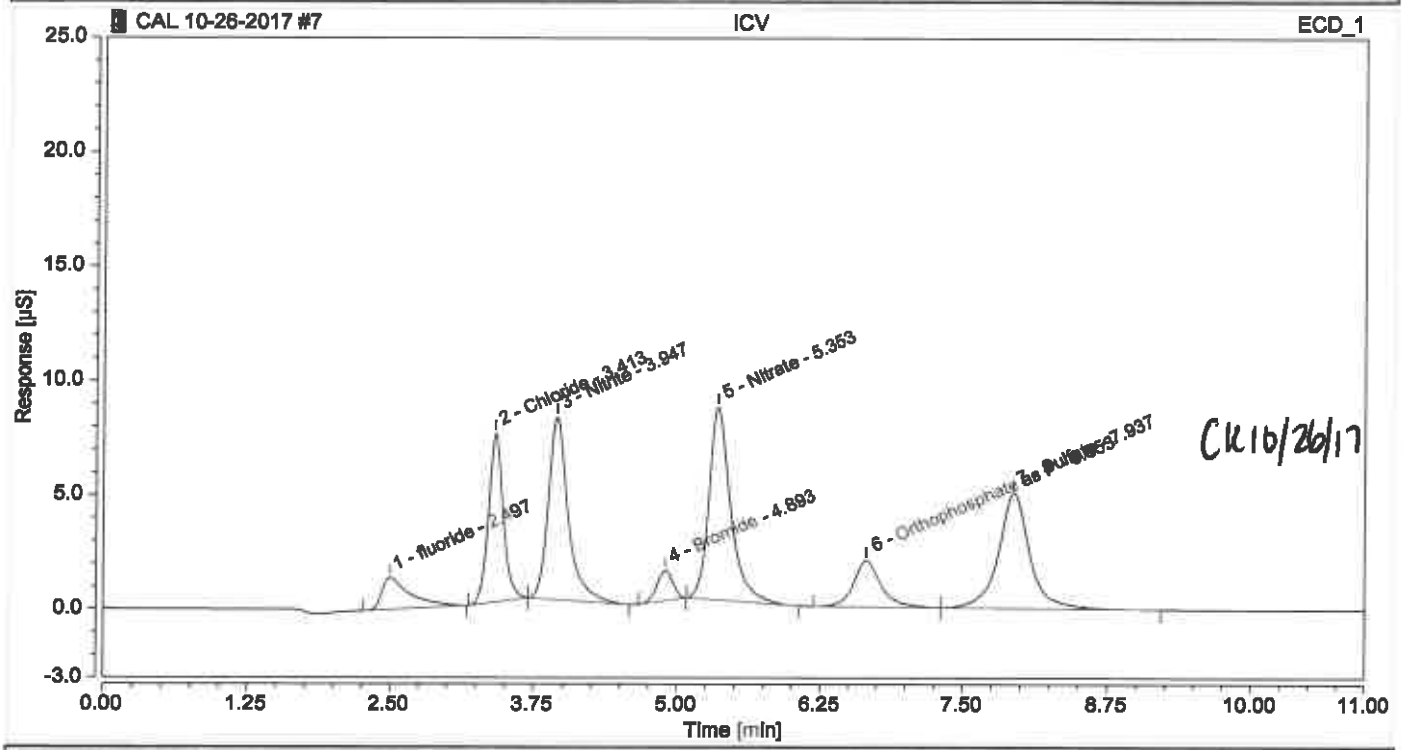
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.503	0.81792	2.869	4.93	3.60	1.9897
2	Chloride	3.423	2.85797	19.606	17.23	24.60	7.5845
3	Nitrite	3.960	4.10508	20.536	24.74	25.77	5.0264
4	Bromide	4.900	0.57523	3.579	3.47	4.49	5.0479
5	Nitrate	5.347	3.95439	18.751	23.83	23.53	4.0161
6	Orthophosphate as P	6.650	1.17503	4.261	7.08	5.35	4.0183
7	Sulfate	7.937	3.10523	10.080	18.72	12.65	10.1545
Total:			**16.591**	**79.682**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 18:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

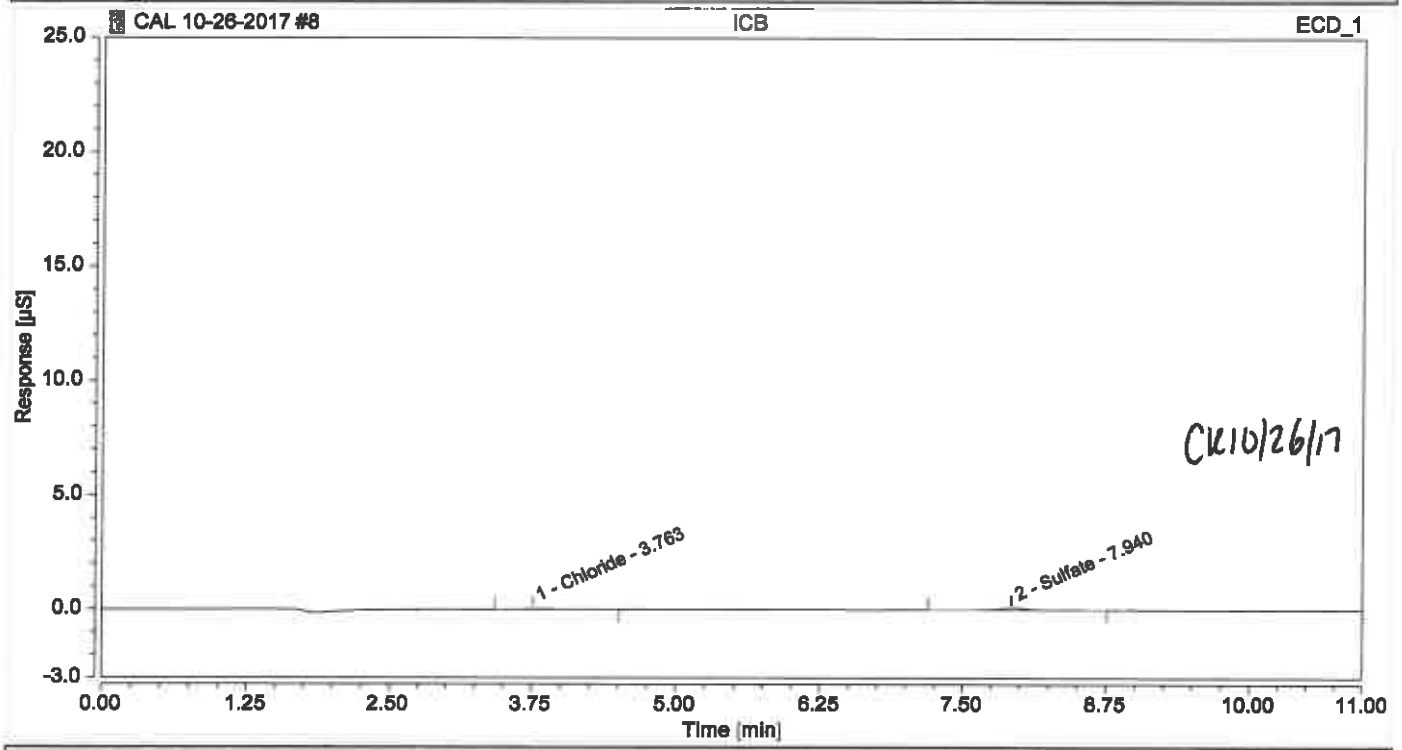
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.497	0.40106	1.395	5.49	4.14	0.9616
2	Chloride	3.413	1.10041	7.404	15.07	21.95	2.9852
3	Nitrite	3.947	1.57044	8.012	21.51	23.76	1.9516
4	Bromide	4.893	0.21304	1.320	2.92	3.91	1.9141
5	Nitrate	5.353	1.84692	8.471	25.30	25.12	1.9099
6	Orthophosphate as P	6.653	0.57572	2.042	7.89	6.05	2.0237
7	Sulfate	7.937	1.59329	5.082	21.82	15.07	5.1252
Total:			**7.301**	**33.727**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 18:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

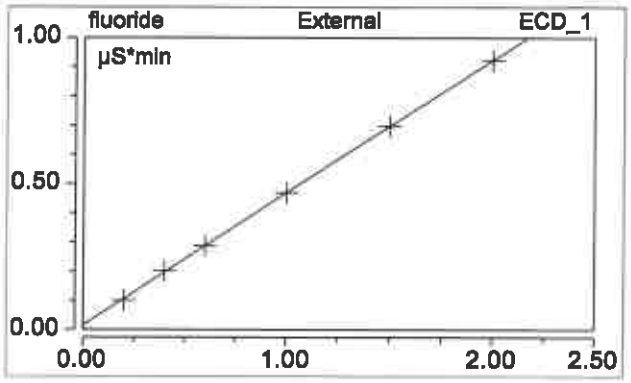
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.763	0.01524	0.028	30.37	24.04	0.1455
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	7.940	0.03495	0.089	69.63	75.96	n.a.
Total:			**0.050**	**0.117**	**100.00**	**100.00**	

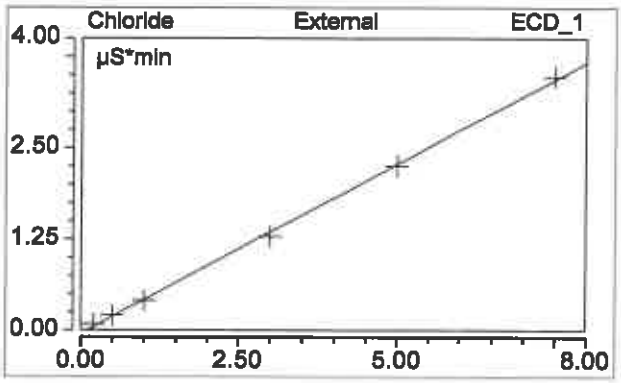
5 Curve 5

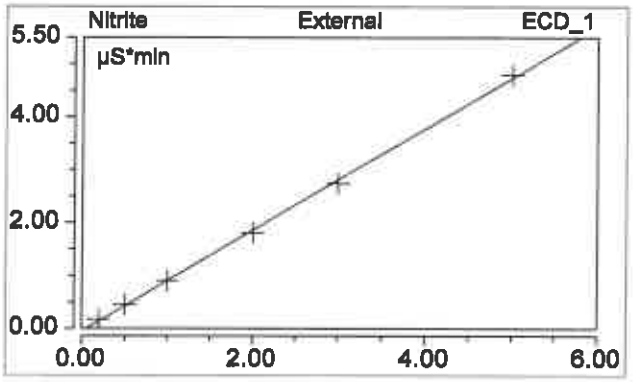
IG 9/27/17

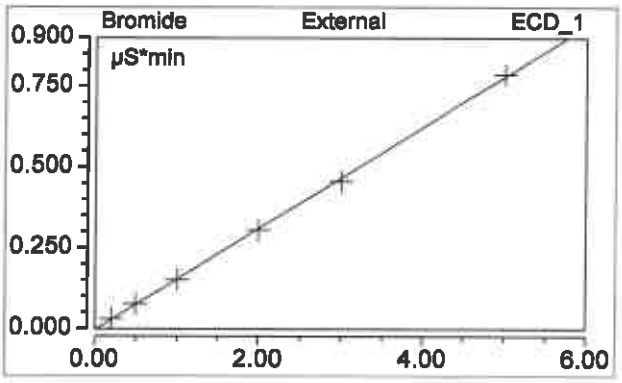
Operator:n.a. Timebase:ICS1100_1 Sequence:CAL 09-27-2017
IC Stock I

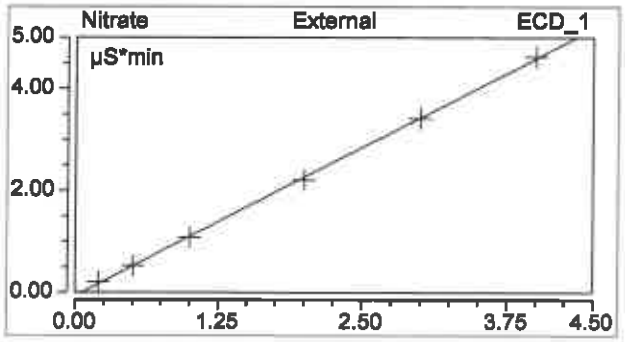
Sample Name:	**Curve 5**	*Injection Volume:*	**25.0**
Vial Number:	**RE5**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Seven Anions**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/27/2017 10:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

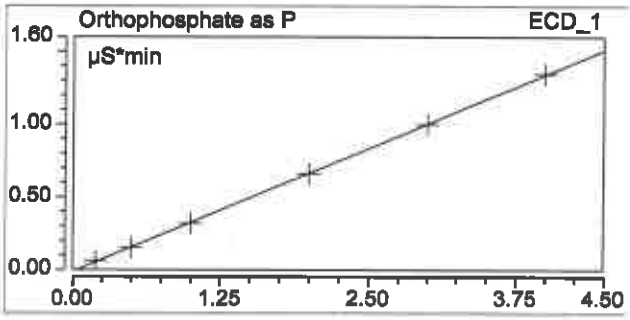


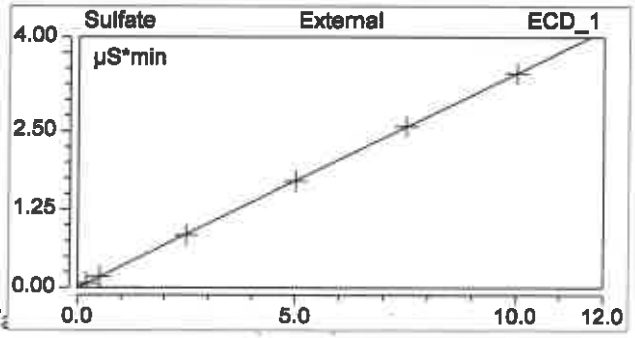












9/27/17

Chromeleon (c) Dionex 1996-2001
Version 7.2.4.8179

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	R-Square %
1	1.88		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.54	fluoride	n, WithOffs	6	99.9953	0.0147	0.4545	99.991
3	3.53	Chloride	n, WithOffs	6	99.9565	-0.0448	0.4639	99.913
4	4.12	Nitrite	n, WithOffs	6	99.9521	-0.0572	0.9579	99.904
5	5.17	Bromide	n, WithOffs	6	99.9776	-0.0041	0.1569	99.955
6	5.68	Nitrate	n, WithOffs	6	99.9770	-0.0630	1.1635	99.954
7	6.95	Orthophosphate as	n, WithOffs	6	99.9953	-0.0141	0.3387	99.991
8	8.31	Sulfate	n, WithOffs	6	99.9979	-0.0020	0.3423	99.996
Average:					99.9788	-0.0244	0.5540	99.9577

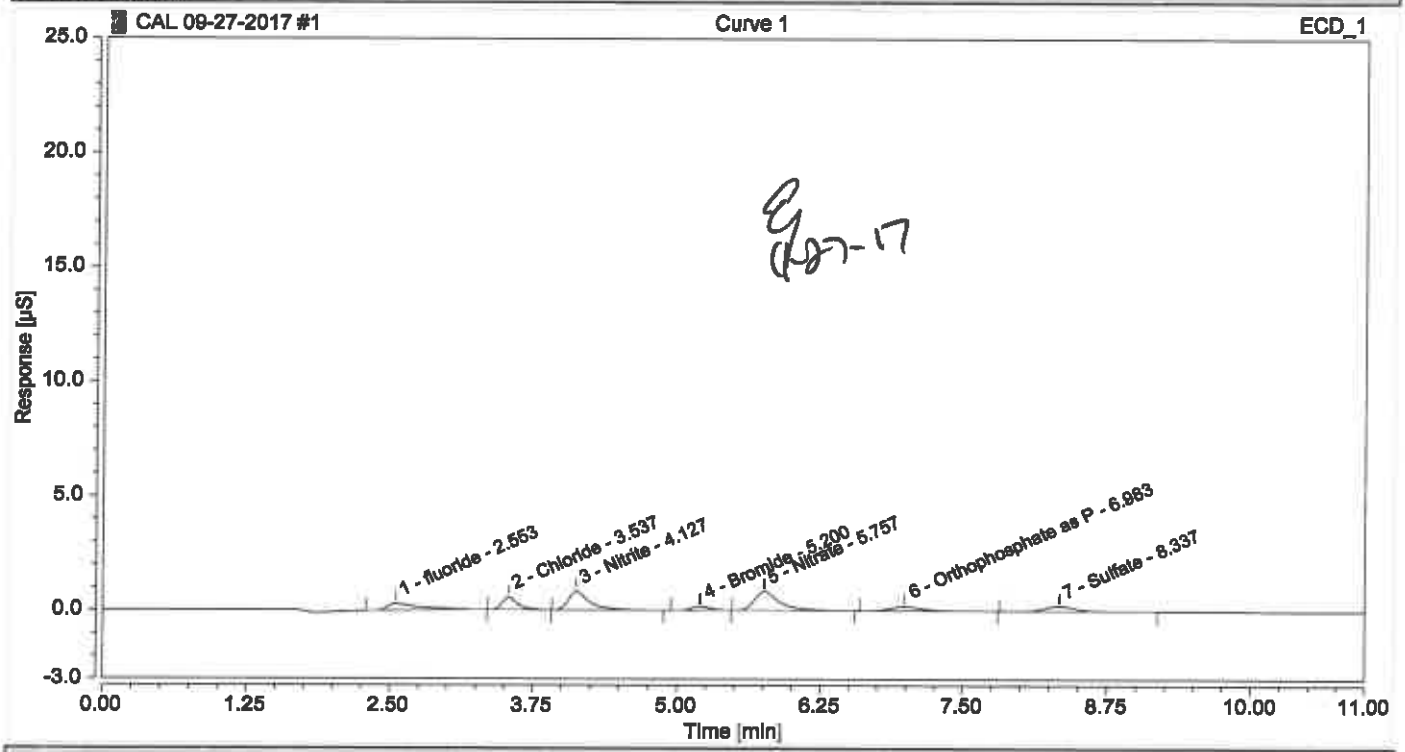
9/
9-27-17

Chromatogram and Results

Injection Details

Injection Name:	**Curve 1**	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**01**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

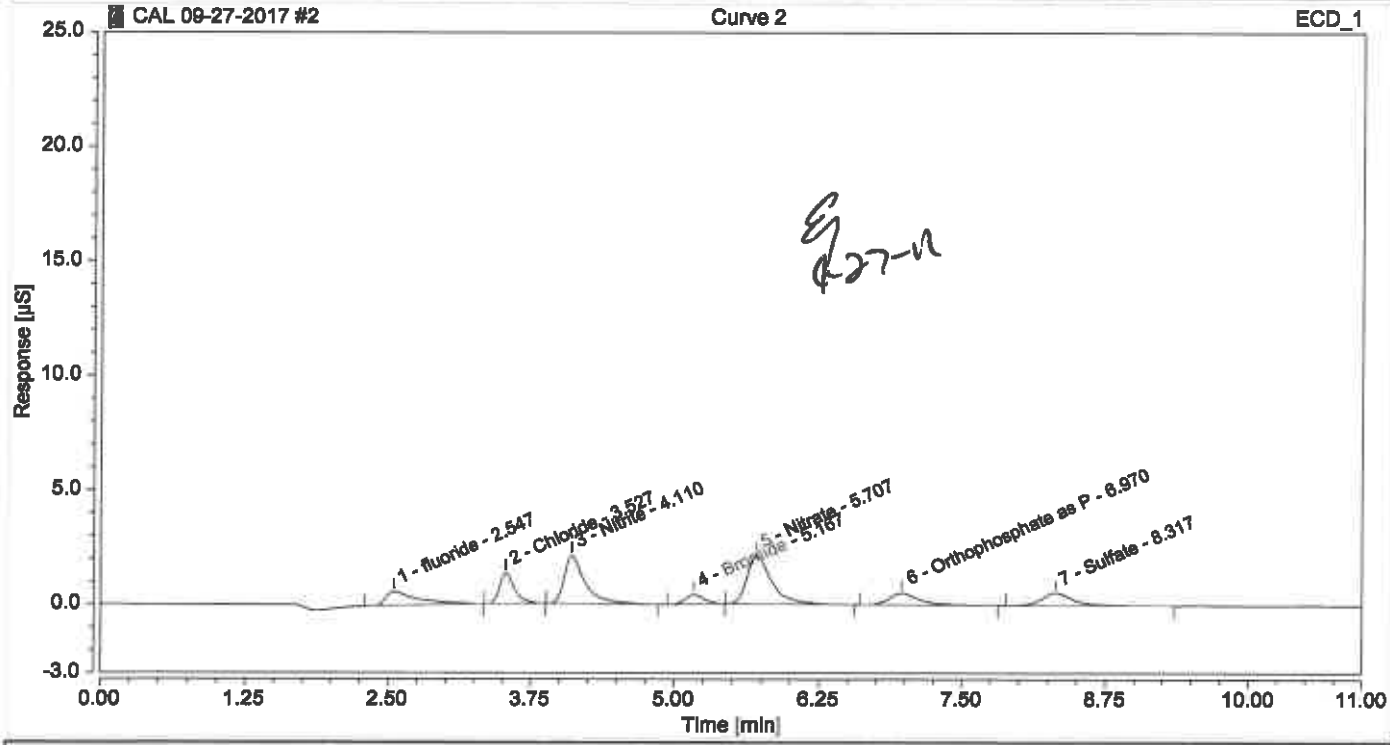
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.553	0.10078	0.299	13.71	9.76	0.1895
2	Chloride	3.537	0.08568	0.552	11.66	18.01	0.2811
3	Nitrite	4.127	0.17420	0.816	23.70	26.59	0.2416
4	Bromide	5.200	0.03131	0.162	4.26	5.29	0.2259
5	Nitrate	5.757	0.21115	0.823	28.72	26.82	0.2356
6	Orthophosphate as P	6.983	0.06133	0.191	8.34	6.24	0.2226
7	Sulfate	8.337	0.07067	0.224	9.61	7.29	0.2125
Total:			**0.735**	**3.068**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 2**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**02**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

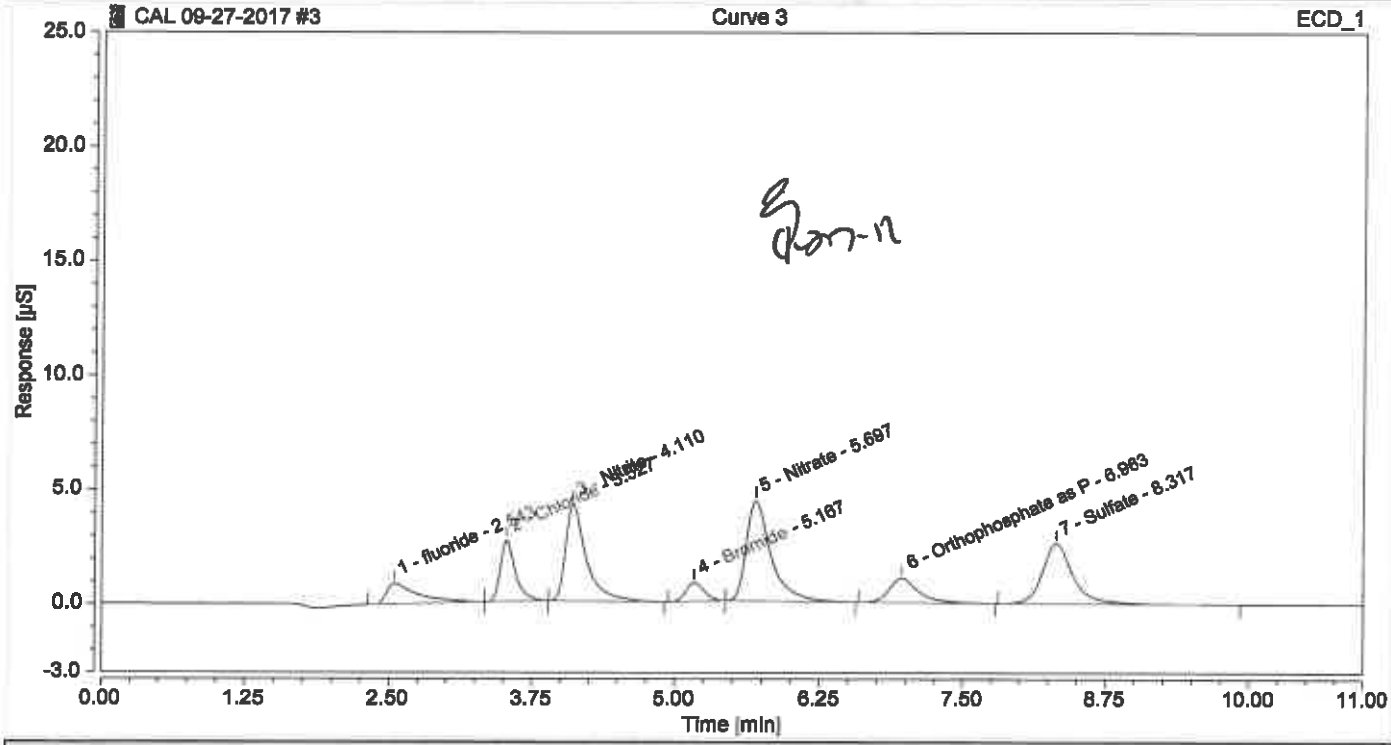
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.547	0.20112	0.616	11.24	8.01	0.4102
2	Chloride	3.527	0.20584	1.349	11.50	17.55	0.5401
3	Nitrite	4.110	0.44871	2.115	25.08	27.52	0.5282
4	Bromide	5.167	0.07714	0.410	4.31	5.34	0.5178
5	Nitrate	5.707	0.52654	2.132	29.43	27.74	0.5066
6	Orthophosphate as P	6.970	0.15280	0.510	8.54	6.63	0.4927
7	Sulfate	8.317	0.17713	0.554	9.90	7.21	0.5235
Total:			**1.789**	**7.686**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 3**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

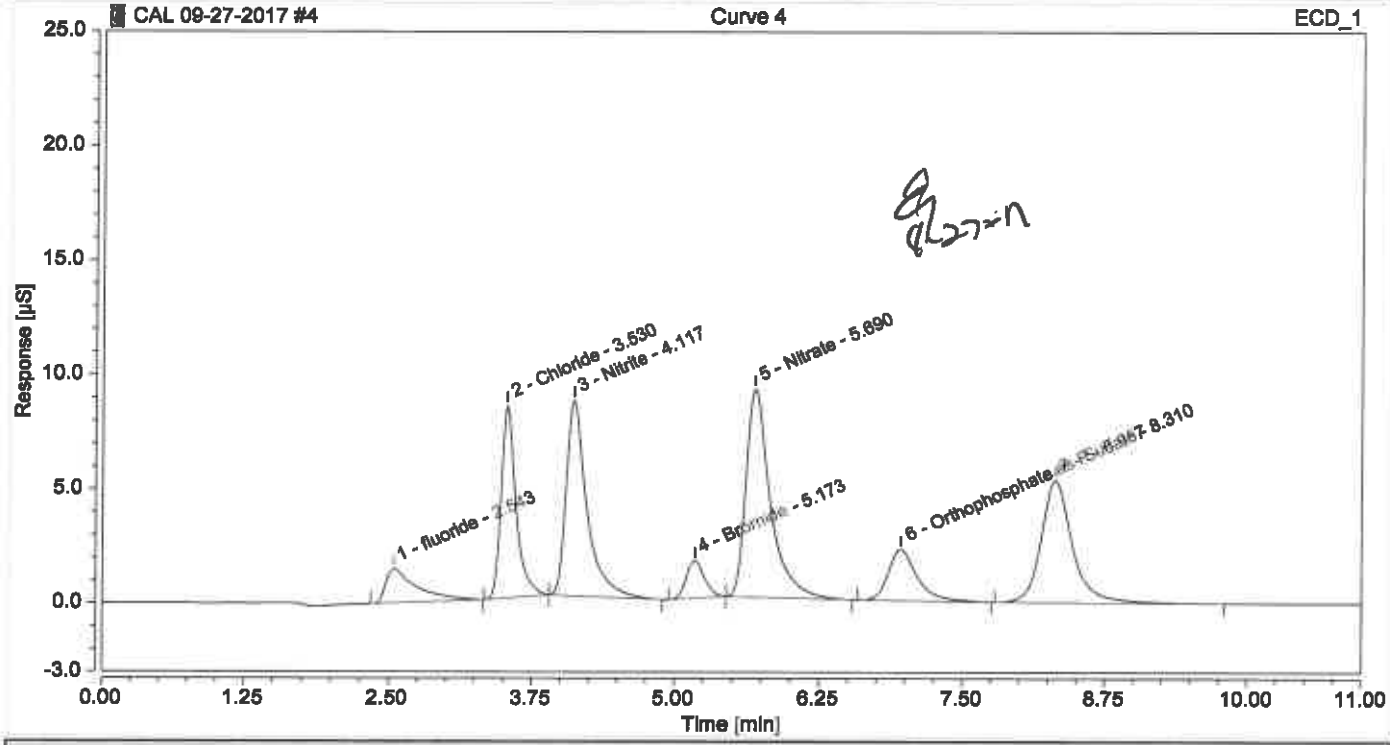
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.543	0.28788	0.911	7.21	5.43	0.6011
2	Chloride	3.527	0.40927	2.688	10.25	16.02	0.9786
3	Nitrite	4.110	0.90077	4.256	22.56	25.36	1.0001
4	Bromide	5.167	0.15266	0.824	3.82	4.91	0.9990
5	Nitrate	5.697	1.08041	4.401	27.06	26.22	0.9827
6	Orthophosphate as P	6.963	0.32050	1.071	8.03	6.38	0.9878
7	Sulfate	8.317	0.84084	2.632	21.06	15.68	2.4628
Total:			**3.992**	**16.782**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 4**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

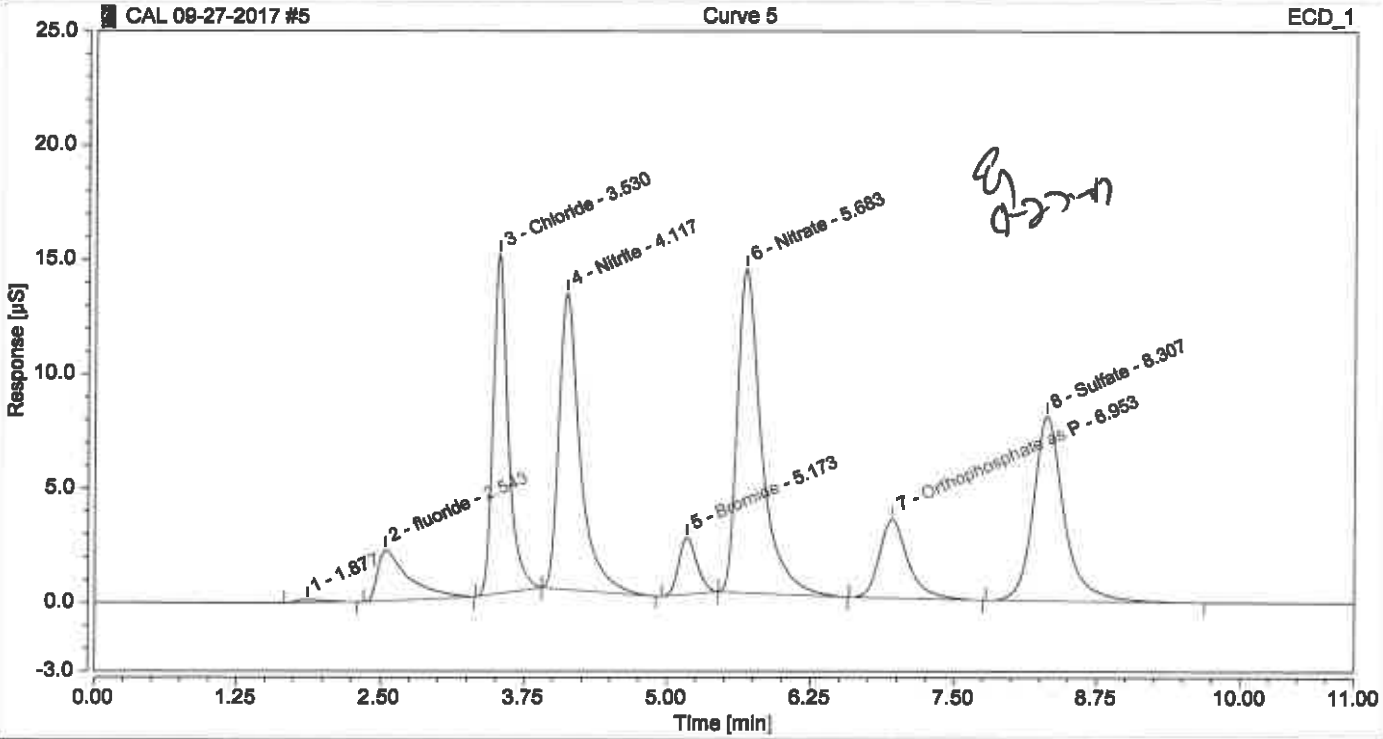
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.543	0.46942	1.500	5.57	4.06	1.0005
2	Chloride	3.530	1.28413	8.445	15.23	22.88	2.8643
3	Nitrite	4.117	1.80267	8.576	21.38	23.24	1.9416
4	Bromide	5.173	0.30566	1.656	3.63	4.49	1.9739
5	Nitrate	5.690	2.20639	9.131	26.17	24.74	1.9504
6	Orthophosphate as P	6.957	0.66109	2.258	7.84	6.12	1.9932
7	Sulfate	8.310	1.70090	5.337	20.18	14.46	4.9757
Total:			**8.430**	**36.902**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 5**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**05**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

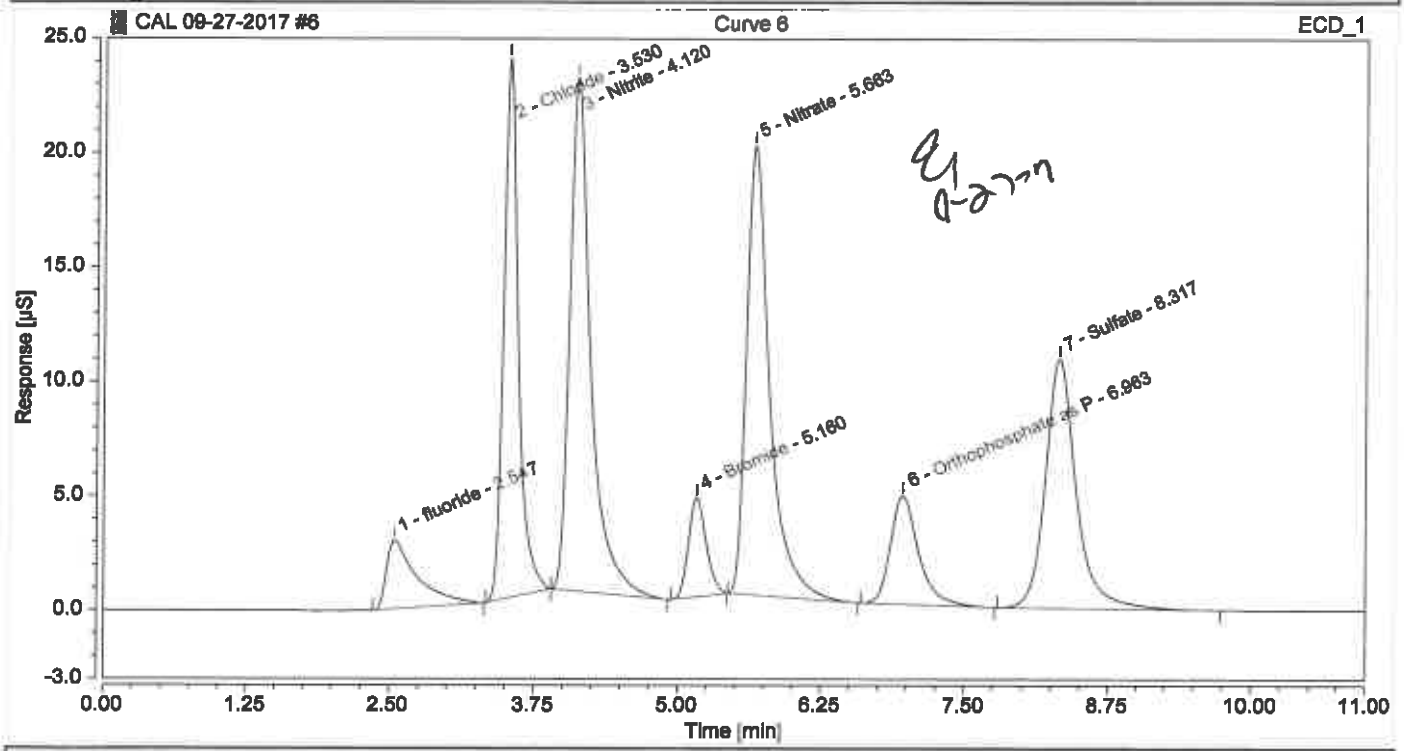
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.877	0.03356	0.112	0.25	0.19	n.a.
2	fluoride	2.543	0.69697	2.244	5.29	3.84	1.5011
3	Chloride	3.530	2.25194	14.857	17.09	25.42	4.9504
4	Nitrite	4.117	2.74397	12.981	20.83	22.21	2.9243
5	Bromide	5.173	0.45712	2.493	3.47	4.27	2.9389
6	Nitrate	5.683	3.41902	14.205	25.95	24.30	2.9926
7	Orthophosphate as P	6.953	0.99872	3.456	7.58	5.91	2.9900
8	Sulfate	8.307	2.57248	8.099	19.53	13.86	7.5222
Total:			**13.174**	**58.446**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 6**	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**06**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

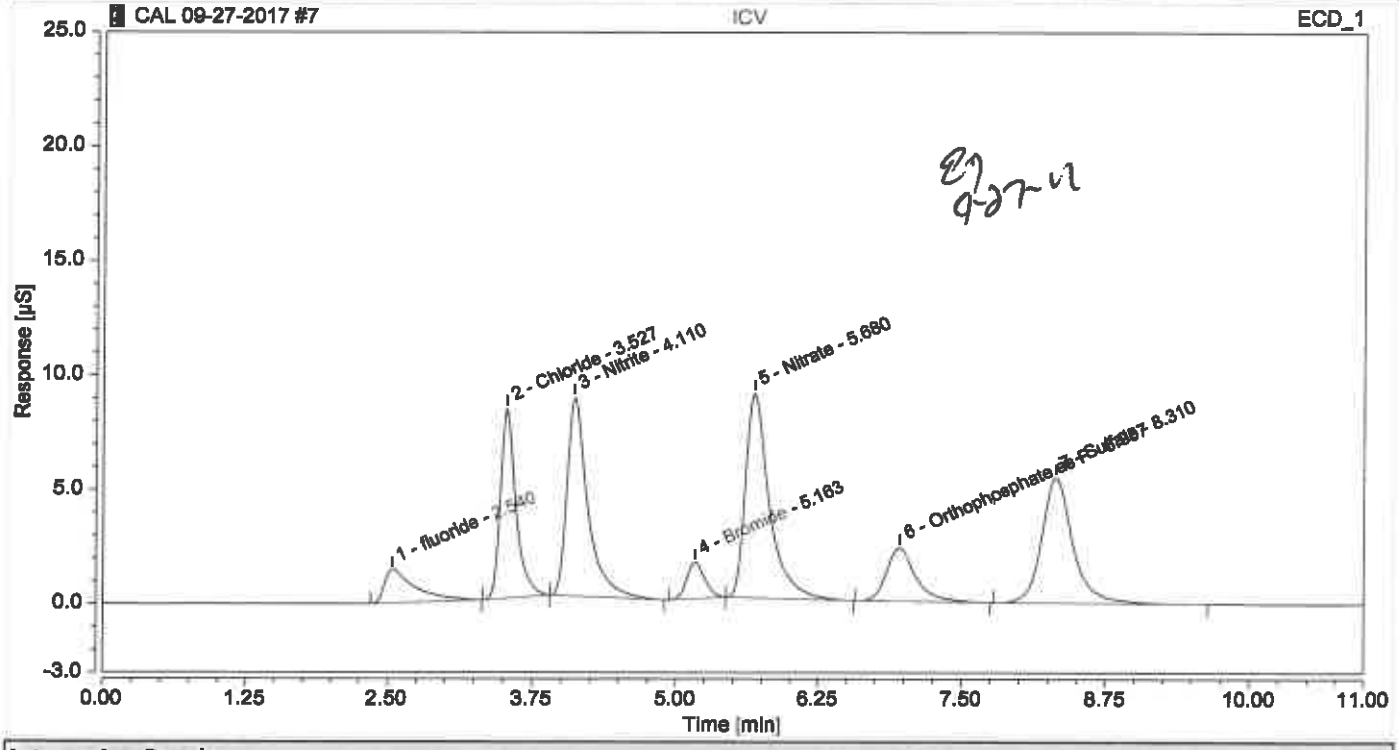
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.547	0.92262	3.010	4.76	3.39	1.9976
2	Chloride	3.530	3.47437	23.576	17.93	26.56	7.5853
3	Nitrite	4.120	4.79394	22.472	24.74	25.31	5.0643
4	Bromide	5.160	0.78758	4.351	4.07	4.90	5.0445
5	Nitrate	5.663	4.62837	19.680	23.89	22.17	4.0320
6	Orthophosphate as P	6.963	1.34549	4.767	6.94	5.37	4.0137
7	Sulfate	8.317	3.42165	10.925	17.66	12.31	10.0034
Total:			**19.374**	**88.781**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anions**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

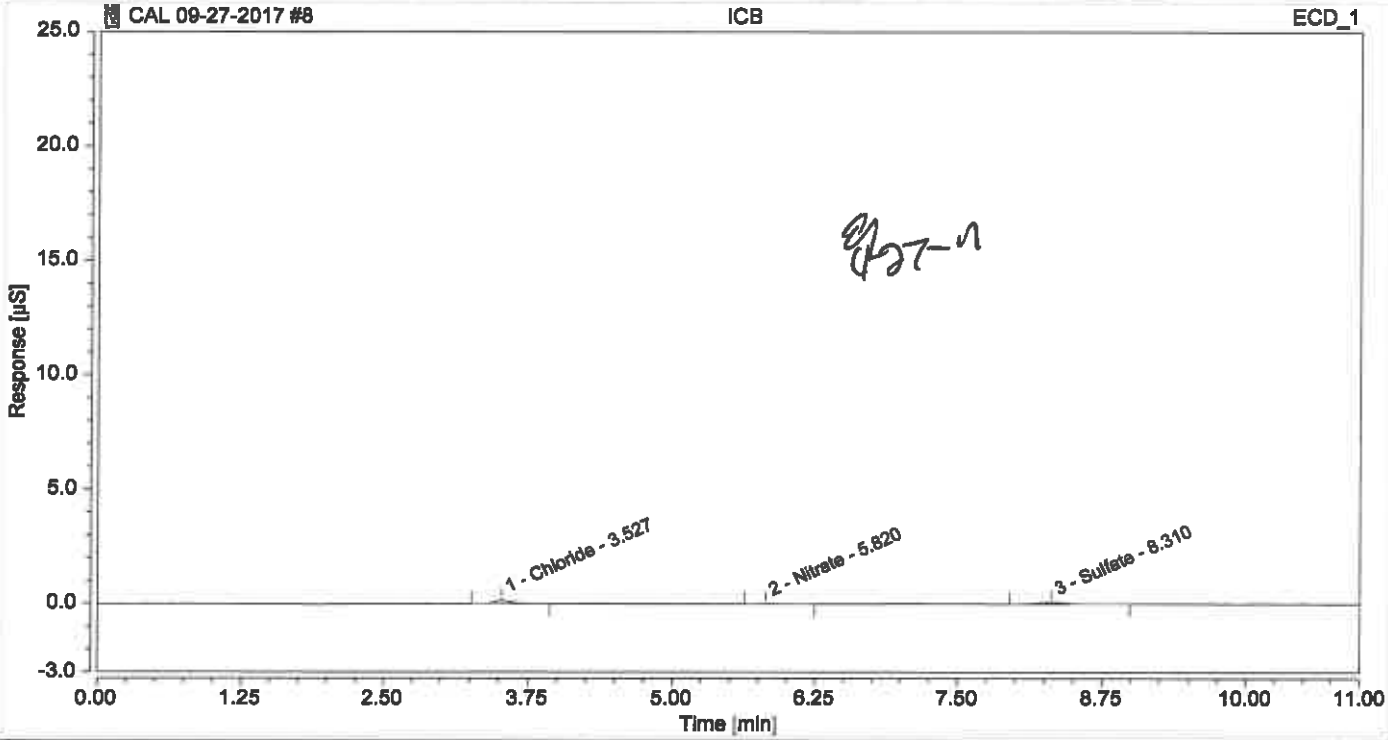
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.540	0.45580	1.475	5.40	4.00	0.9705
2	Chloride	3.527	1.27391	8.294	15.10	22.51	2.8423
3	Nitrite	4.110	1.82595	8.700	21.65	23.61	1.9659
4	Bromide	5.163	0.29164	1.587	3.46	4.31	1.8846
5	Nitrate	5.680	2.16485	8.959	25.67	24.31	1.9147
6	Orthophosphate as P	6.957	0.68649	2.342	8.14	6.36	2.0682
7	Sulfate	8.310	1.73622	5.490	20.58	14.90	5.0789
Total:			**8.435**	**36.847**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	ICB	*Run Time (min):*	11.00
Vial Number:	RA2	*Injection Volume:*	25.00
Injection Type:	Unknown	*Channel:*	ECD_1
Calibration Level:		*Comments:*	
Instrument Method:	Seven Anions		n.a.
Processing Method:	Seven Anions	*Dilution Factor:*	1.0000
Injection Date/Time:	27/Sep/17 10:42	*Sample Weight:*	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.527	0.02247	0.139	47.26	64.80	0.1449
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.820	0.00331	0.011	6.96	5.13	0.0569
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.310	0.02176	0.065	45.78	30.07	0.0696
Total:			**0.048**	**0.215**	**100.00**	**100.00**	

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ben Chorn	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-56143-27461.3
Client Contact: Ms. Cynthia Bonczkiewicz	Phone: 312-288-3800	E-Mail: jim.knapp@testamericainc.com		Page: ~~Page 3 of 4~~ 1 of 1
Company: Ramboll Environ US Corporation				Job #: 500-136029
Address: 333 W Wacker Drive Suite 2700	Due Date Requested:			
City: Chicago	TAT Requested (days): 5-7 Standard			
State, Zip: IL, 60606				
Phone: 312-288-3800(Tel) 500-136029 COC	PO #: Purchase Order not required			
Email: cbonczkiewicz@environcorp.com	WO #:			
Project Name: Ellsworth Industrial Park	Project #: 50013395			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	8260B_SIM - 1,4-Dioxane (to Canton)	RSK_175 - Diss Gases - MEE Only	9056A - Anions, pH	SM4500_S2_F - Sulfide	9060A - TOC	3500_F+2_B_Calc - Ferrous Iron - 48Hr HT	8082A - PCBs	6010B - RCRA Metals	8260B - VOCs	6010B, 8082A, 8270D			Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A	N	CB	S	N	N	D		N				
1 OMW20-GW-10/19/17	10/19/17	1604	G	Water			X	X	X	X	X	X								13	MS/MSD
↓ EIP-MS-10/19/17	10/19/17	1604	G	Water			X	X	X	X	X	X								26	
2 EIP-TB-07-10/20/17	10/20/17			Water			X													3	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/20/2017 1505	Ramboll Environ	[signature]	10/20/17 1505	TA
[signature]	10/20/17 1605	TA	[signature]	10/20/17 1605	TA-CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.0

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

1.8/C1.8

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-94574.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jim.knapp@testamericainc.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-136029-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 10/27/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Ellsworth Industrial Park	Project #: 50013395			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

ms
RS K

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ MEE Only	8260B_SIM/5030B (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
OMW2D-GW-10/19/17 (500-136029-1)	10/19/17	16:04 Central		Water			X	X	6	
OMW2D-GW-10/19/17 (500-136029-1MS)	10/19/17	16:04 Central	MS	Water			X	X	6	
OMW2D-GW-10/19/17 (500-136029-1MSD)	10/19/17	16:04 Central	MSD	Water			X	X	6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Shari Scott	Date/Time: 10/20/17 1640	Company: TA-OH	Received by: [signature]	Date/Time: 10-21-17 0930	Company: TAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :**_____
Canton Facility

Client TA Chicago Site Name_____ Cooler unpacked by: MBB
Cooler Received on 10-31-17 Opened on 10-31-17
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.8 °C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN # 627 (CF -1.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

_____
_____
_____
_____
_____

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s):_____.

Login Sample Receipt Checklist

Client: Ramboll Environ US Corporation

Job Number: 500-136029-1

Login Number: 136029
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	