ANALYTICAL REPORT

Job Number: 500-53234-1

Job Description: Vulcan Louisville Fansteel

For:
Oneida Total Integrated Enterprises LLC
100 West Monroe
Suite 300
Chicago, IL 60603

Attention: Mr. Raghu Nagam

Approved for release.
Donna L Ingersoll
Project Manager II
1/3/2013 4:04 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
01/03/2013

cc: Mr. Naren Babu

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

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica Burlington VT00008

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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Job Narrative
500-53234-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2012 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

Except:

1 MEE vial for sample OLD-MW-9 was received broken, 2 vials remain.

GC/MS VOA
Method(s) 8260B: The following sample was diluted due to the abundance of target and/or non-target analytes: VLF-MW-3 (500-53234-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) 300.0: The following IC samples in batch 173019 were diluted due to the abundance of non-target analytes: VLF-MW-3 (500-53234-1). Elevated reporting limits (RLs) for nitrite are provided.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: CMS22 Analysis Batch Number: 172615

Lab Sample ID: STD01 500-172615/2 IC Client Sample ID:

Date Analyzed: 12/11/12 14:23 Lab File ID: 22I1211A.D GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.55	Baseline	alikpalae	12/11/12 19:50

Lab Sample ID: STD02 500-172615/3 IC Client Sample ID:

Date Analyzed: 12/11/12 14:51 Lab File ID: 22I1211B.D GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.01	Baseline	alikpalae	12/11/12 19:54
Acetonitrile	3.59	Split Peak	alikpalae	12/11/12 19:54
Tetrachloroethene	9.75	Split Peak	alikpalae	12/11/12 19:54

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-53234-1	VLF-MW-3	Water	12/12/2012 1000	12/13/2012 1020
500-53234-2	VLF-MW-4	Water	12/12/2012 1228	12/13/2012 1020
500-53234-3	OLD-MW-4	Water	12/12/2012 1144	12/13/2012 1020
500-53234-4	OLD-MW-9	Water	12/12/2012 1429	12/13/2012 1020
500-53234-5	TRIP BLANK	Water	12/12/2012 0000	12/13/2012 1020

EXECUTIVE SUMMARY - Detections

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
500-53234-1	**VLF-MW-3**					
trans-1,2-Dichloroethene		220		50	ug/L	8260B
cis-1,2-Dichloroethene		15000		500	ug/L	8260B
Trichloroethene		20000		250	ug/L	8260B
Vinyl chloride		380		25	ug/L	8260B
Methane		17		2.0	ug/L	RSK-175
Ethane		0.84	J	4.0	ug/L	RSK-175
Ethylene		0.93	J	3.0	ug/L	RSK-175
Barium		0.12		0.010	mg/L	6010B
Cadmium		0.0011	J	0.0020	mg/L	6010B
Chromium		0.0020	J	0.010	mg/L	6010B
Selenium		0.050		0.010	mg/L	6010B
Mercury		0.18	J	0.20	ug/L	7470A
Chloride		900	B	40	mg/L	300.0
Sulfate		510		20	mg/L	300.0
Alkalinity		60		5.0	mg/L	SM 2320B
TOC Result 1		28		1.0	mg/L	SM 5310C
TOC Result 2		31		1.0	mg/L	SM 5310C
TOC Dup		30		1.0	mg/L	SM 5310C
500-53234-2	**VLF-MW-4**					
trans-1,2-Dichloroethene		1.5		1.0	ug/L	8260B
cis-1,2-Dichloroethene		50		1.0	ug/L	8260B
Trichloroethene		9.7		0.50	ug/L	8260B
Vinyl chloride		20		0.50	ug/L	8260B
Methane		350		10	ug/L	RSK-175
Barium		0.039		0.010	mg/L	6010B
Cadmium		0.00092	J	0.0020	mg/L	6010B
Chromium		0.0054	J	0.010	mg/L	6010B
Selenium		0.024		0.010	mg/L	6010B
Mercury		0.21		0.20	ug/L	7470A
Chloride		130	B	5.0	mg/L	300.0
Nitrate as N		0.029	J	0.20	mg/L	300.0
Sulfate		120		5.0	mg/L	300.0
Alkalinity		120		5.0	mg/L	SM 2320B
TOC Result 1		35		2.0	mg/L	SM 5310C
TOC Result 2		36		2.0	mg/L	SM 5310C
TOC Dup		35		2.0	mg/L	SM 5310C

EXECUTIVE SUMMARY - Detections

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
500-53234-3	**OLD-MW-4**					
trans-1,2-Dichloroethene		18		1.0	ug/L	8260B
cis-1,2-Dichloroethene		680		10	ug/L	8260B
Trichloroethene		300		5.0	ug/L	8260B
Vinyl chloride		35		0.50	ug/L	8260B
Methane		26		2.0	ug/L	RSK-175
Ethylene		3.1		3.0	ug/L	RSK-175
Barium		0.092		0.010	mg/L	6010B
Cadmium		0.00098	J	0.0020	mg/L	6010B
Chromium		0.0071	J	0.010	mg/L	6010B
Lead		0.013		0.0050	mg/L	6010B
Chloride		150	B	10	mg/L	300.0
Sulfate		230		10	mg/L	300.0
Alkalinity		290		5.0	mg/L	SM 2320B
TOC Result 1		3.9		1.0	mg/L	SM 5310C
TOC Result 2		3.7		1.0	mg/L	SM 5310C
TOC Dup		3.8		1.0	mg/L	SM 5310C
500-53234-4	**OLD-MW-9**					
Trichloroethene		6.0		0.50	ug/L	8260B
Methane		0.46	J	2.0	ug/L	RSK-175
Barium		0.15		0.010	mg/L	6010B
Cadmium		0.0020		0.0020	mg/L	6010B
Chromium		0.50		0.010	mg/L	6010B
Lead		0.10		0.0050	mg/L	6010B
Mercury		0.091	J	0.20	ug/L	7470A
Chloride		79	B	4.0	mg/L	300.0
Nitrate as N		0.033	J	0.20	mg/L	300.0
Sulfate		120		4.0	mg/L	300.0
Alkalinity		650		5.0	mg/L	SM 2320B
TOC Result 1		2.3		1.0	mg/L	SM 5310C
TOC Result 2		1.8		1.0	mg/L	SM 5310C
TOC Dup		2.1		1.0	mg/L	SM 5310C

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Metals (ICP)	TAL CHI	SW846 6010B	
Preparation, Total Metals	TAL CHI		SW846 3010A
Mercury (CVAA)	TAL CHI	SW846 7470A	
Preparation, Mercury	TAL CHI		SW846 7470A
Anions, Ion Chromatography	TAL CHI	MCAWW 300.0	
Alkalinity	TAL CHI	SM SM 2320B	
TOC	TAL CHI	SM SM 5310C	
Dissolved Gases (GC)	TAL BUR	RSK RSK-175	

Lab References:

TAL BUR = TestAmerica Burlington

TAL CHI = TestAmerica Chicago

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method	Analyst	Analyst ID
SW846 8260B	Alikpala, Elaine	EA
RSK RSK-175	Sheldon, Travis F	TFS
SW846 6010B	Jones, Paul	PJ
SW846 6010B	Smith, Todd D	TDS
SW846 7470A	Bills, Brandon J	BJB
MCAWW 300.0	Moore, Colleen L	CLM
SM SM 2320B	Moore, Colleen L	CLM
SM SM 5310C	Deb, Khona	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-3**

Lab Sample ID: 500-53234-1

Client Matrix: Water

Date Sampled: 12/12/2012 1000

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-01.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0643			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	3.7	U	3.7	25
trans-1,2-Dichloroethene	220		13	50
Ethylbenzene	6.5	U	6.5	25
Tetrachloroethene	8.5	U	8.5	50
Toluene	5.5	U	5.5	25
Vinyl chloride	380		5.0	25
Xylenes, Total	3.4	U	3.4	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
Toluene-d8 (Surr)	96		75 - 120
4-Bromofluorobenzene (Surr)	90		75 - 120
Dibromofluoromethane	99		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-3**

Lab Sample ID: 500-53234-1

Client Matrix: Water

Date Sampled: 12/12/2012 1000

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-01A.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0709	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0709				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	15000		60	500
Trichloroethene	20000		95	250

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	99		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-4**

Lab Sample ID: 500-53234-2

Client Matrix: Water

Date Sampled: 12/12/2012 1228

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-02.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0551			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0551				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	1.5		0.25	1.0
cis-1,2-Dichloroethene	50		0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	9.7		0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	20		0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
Toluene-d8 (Surr)	100		75 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	97		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-4**

Lab Sample ID: 500-53234-3

Client Matrix: Water

Date Sampled: 12/12/2012 1144

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-03.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0735			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0735				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	18		0.25	1.0
Ethylbenzene	0.13	U	0.13	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	35		0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	93		75 - 120
Dibromofluoromethane	105		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-4**

Lab Sample ID: 500-53234-3

Client Matrix: Water

Date Sampled: 12/12/2012 1144

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-03A.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0801	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0801				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	680		1.2	10
Trichloroethene	300		1.9	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
Toluene-d8 (Surr)	97		75 - 120
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	101		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-9**

Lab Sample ID: 500-53234-4

Client Matrix: Water

Date Sampled: 12/12/2012 1429

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-04.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0617			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0617				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	6.0		0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
Toluene-d8 (Surr)	101		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	101		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 500-53234-5

Client Matrix: Water

Date Sampled: 12/12/2012 0000

Date Received: 12/13/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-173302	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53234-05.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0525			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	101		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-3**

Lab Sample ID: 500-53234-1

Client Matrix: Water

Date Sampled: 12/12/2012 1000

Date Received: 12/13/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	
Dilution:	1.0			Final Weight/Volume:	
Analysis Date:	12/17/2012 1725			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	17		0.45	2.0
Ethane	0.84	J	0.81	4.0
Ethylene	0.93	J	0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-4**

Lab Sample ID: 500-53234-2

Client Matrix: Water

Date Sampled: 12/12/2012 1228

Date Received: 12/13/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	
Dilution:	5.0			Final Weight/Volume:	
Analysis Date:	12/18/2012 0914			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	350		2.3	10
Ethane	4.1	U	4.1	20
Ethylene	3.7	U	3.7	15

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-4**

Lab Sample ID: 500-53234-3

Client Matrix: Water

Date Sampled: 12/12/2012 1144

Date Received: 12/13/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	
Dilution:	1.0			Final Weight/Volume:	
Analysis Date:	12/17/2012 1735			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	26		0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	3.1		0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-9**

Lab Sample ID: 500-53234-4

Client Matrix: Water

Date Sampled: 12/12/2012 1429

Date Received: 12/13/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	
Dilution:	1.0			Final Weight/Volume:	
Analysis Date:	12/17/2012 1741			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	0.46	J	0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-3**

Lab Sample ID: 500-53234-1

Client Matrix: Water

Date Sampled: 12/12/2012 1000

Date Received: 12/13/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-173118	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1602			Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.12		0.00044	0.010
Cadmium	0.0011	J	0.00054	0.0020
Chromium	0.0020	J	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.050		0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173161	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0927			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.18	J	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **VLF-MW-4**

Lab Sample ID: 500-53234-2

Client Matrix: Water

Date Sampled: 12/12/2012 1228

Date Received: 12/13/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-173118	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1614			Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.039		0.00044	0.010
Cadmium	0.00092	J	0.00054	0.0020
Chromium	0.0054	J	0.00096	0.010
Selenium	0.024		0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

Analysis Method:	6010B	Analysis Batch:	500-173180	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172932	Lab File ID:	P6121712A.asc
Dilution:	5.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2012 1136			Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Lead	0.0079	U	0.0079	0.025

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173161	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0944			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.21		0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-4**

Lab Sample ID: 500-53234-3

Client Matrix: Water

Date Sampled: 12/12/2012 1144

Date Received: 12/13/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-173118	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1618			Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.092		0.00044	0.010
Cadmium	0.00098	J	0.00054	0.0020
Chromium	0.0071	J	0.00096	0.010
Lead	0.013		0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173161	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0947			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.071	U	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Client Sample ID: **OLD-MW-9**

Lab Sample ID: 500-53234-4

Client Matrix: Water

Date Sampled: 12/12/2012 1429

Date Received: 12/13/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-173118	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1622			Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.15		0.00044	0.010
Cadmium	0.0020		0.00054	0.0020
Chromium	0.50		0.00096	0.010
Lead	0.10		0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173161	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0949			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	J	0.071	0.20

General Chemistry

Client Sample ID: **VLF-MW-3**

Lab Sample ID: 500-53234-1

Client Matrix: Water

Date Sampled: 12/12/2012 1000

Date Received: 12/13/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	900	B	mg/L	9.2	40	200	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1056						
Nitrate as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1856						
Nitrite as N	0.28	U	mg/L	0.28	2.0	10	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1909						
Sulfate	510		mg/L	7.8	20	100	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1041						
Alkalinity	60		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0037						
TOC Result 1	28		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1752						
TOC Result 2	31		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1752						
TOC Dup	30		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1752						

General Chemistry

Client Sample ID: **VLF-MW-4**

Lab Sample ID: 500-53234-2

Client Matrix: Water

Date Sampled: 12/12/2012 1228

Date Received: 12/13/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	130	B	mg/L	1.2	5.0	25	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1025						
Nitrate as N	0.029	J	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1949						
Nitrite as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1949						
Sulfate	120		mg/L	2.0	5.0	25	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1025						
Alkalinity	120		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0041						
TOC Result 1	35		mg/L	0.76	2.0	2.0	SM 5310C
Analysis Batch: 500-173493	Analysis Date: 12/19/2012 1127						
TOC Result 2	36		mg/L	0.76	2.0	2.0	SM 5310C
Analysis Batch: 500-173493	Analysis Date: 12/19/2012 1127						
TOC Dup	35		mg/L	0.76	2.0	2.0	SM 5310C
Analysis Batch: 500-173493	Analysis Date: 12/19/2012 1127						

General Chemistry

Client Sample ID: **OLD-MW-4**

Lab Sample ID: 500-53234-3

Client Matrix: Water

Date Sampled: 12/12/2012 1144

Date Received: 12/13/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	150	B	mg/L	2.3	10	50	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1112						
Nitrate as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1922						
Nitrite as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1922						
Sulfate	230		mg/L	3.9	10	50	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1112						
Alkalinity	290		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0047						
TOC Result 1	3.9		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1825						
TOC Result 2	3.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1825						
TOC Dup	3.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1825						

General Chemistry

Client Sample ID: **OLD-MW-9**

Lab Sample ID: 500-53234-4

Client Matrix: Water

Date Sampled: 12/12/2012 1429

Date Received: 12/13/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	79	B	mg/L	0.92	4.0	20	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1127						
Nitrate as N	0.033	J	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2042						
Nitrite as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2042						
Sulfate	120		mg/L	1.6	4.0	20	300.0
Analysis Batch: 500-173084	Analysis Date: 12/14/2012 1127						
Alkalinity	650		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0054						
TOC Result 1	2.3		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1841						
TOC Result 2	1.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1841						
TOC Dup	2.1		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173377	Analysis Date: 12/18/2012 1841						

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
500-53234-1	VLF-MW-3	99	97	96	90
500-53234-1 DL	VLF-MW-3 DL	99	96	99	91
500-53234-2	VLF-MW-4	97	97	100	94
500-53234-3	OLD-MW-4	105	97	99	93
500-53234-3 DL	OLD-MW-4 DL	101	96	97	91
500-53234-4	OLD-MW-9	101	98	101	92
500-53234-5	TRIP BLANK	101	93	98	92
MB 500-173302/8		91	90	98	91
LCS 500-173302/4		103	99	99	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-125
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173302

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 500-173302/8	Analysis Batch:	500-173302	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22M1218Q.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0433	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0433				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	75 - 125
Toluene-d8 (Surr)	98	75 - 120
4-Bromofluorobenzene (Surr)	91	75 - 120
Dibromofluoromethane	91	75 - 120

Lab Control Sample - Batch: 500-173302

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 500-173302/4	Analysis Batch:	500-173302	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22S1218P.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2012 0248	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 0248				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	45.2	90	70 - 120	
trans-1,2-Dichloroethene	50.0	46.7	93	70 - 124	
cis-1,2-Dichloroethene	50.0	46.7	93	70 - 120	
Ethylbenzene	50.0	45.4	91	75 - 120	
Trichloroethene	50.0	45.2	90	70 - 120	
Tetrachloroethene	50.0	44.9	90	70 - 123	
Toluene	50.0	45.4	91	70 - 120	
Vinyl chloride	50.0	40.4	81	62 - 138	
Xylenes, Total	150	133	88	70 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	75 - 125
Toluene-d8 (Surr)	99	75 - 120
4-Bromofluorobenzene (Surr)	96	75 - 120
Dibromofluoromethane	103	75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 200-49681

Method: RSK-175
Preparation: N/A

Lab Sample ID:	MB 200-49681/36	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121442-r021.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/17/2012 1503	Units:	ug/L	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Methane	0.45	U	0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Lab Control Sample - Batch: 200-49681

Method: RSK-175
Preparation: N/A

Lab Sample ID:	LCS 200-49681/35	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121442-r011.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/17/2012 1448	Units:	ug/L	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methane	72.4	66.0	91	70 - 130	
Ethane	137	124	90	70 - 130	
Ethylene	128	120	93	70 - 130	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-172932

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 500-172932/1-A	Analysis Batch:	500-173118	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1530	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.00044	U	0.00044	0.010
Cadmium	0.00054	U	0.00054	0.0020
Chromium	0.00096	U	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

Lab Control Sample - Batch: 500-172932

Method: 6010B
Preparation: 3010A

Lab Sample ID:	LCS 500-172932/2-A	Analysis Batch:	500-173118	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172932	Lab File ID:	P6121412B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2012 1533	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/13/2012 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.100	0.0932	93	80 - 120	
Barium	2.00	2.06	103	80 - 120	
Cadmium	0.0500	0.0484	97	80 - 120	
Chromium	0.200	0.198	99	80 - 120	
Lead	0.100	0.0996	100	80 - 120	
Selenium	0.100	0.0951	95	80 - 120	
Silver	0.0500	0.0492	98	80 - 120	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-172995

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 500-172995/7-A	Analysis Batch:	500-173161	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0913	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.071	U	0.071	0.20

Lab Control Sample - Batch: 500-172995

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 500-172995/8-A	Analysis Batch:	500-173161	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 1040	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.00	1.76	88	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172995

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	500-53234-1	Analysis Batch:	500-173161	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0940			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53234-1	Analysis Batch:	500-173161	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0942			Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	91	80	75 - 125	11	20		

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172995

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	500-53234-1	Units:	ug/L	MSD Lab Sample ID:	500-53234-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/17/2012 0940			Analysis Date:	12/17/2012 0942
Prep Date:	12/14/2012 1100			Prep Date:	12/14/2012 1100
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.18	J	1.00	1.00	1.10	0.986

Duplicate - Batch: 500-172995

Method: 7470A
Preparation: 7470A

Lab Sample ID:	500-53234-1	Analysis Batch:	500-173161	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172995	Lab File ID:	121712RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/17/2012 0929	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/14/2012 1100				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.18	J	0.071	NC	20	U

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173019

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 500-173019/34	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00019.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 1336	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	0.028	U	0.028	0.20
Nitrite as N	0.028	U	0.028	0.20

Lab Control Sample - Batch: 500-173019

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 500-173019/45	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00030.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 1603	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	2.00	1.96	98	90 - 110	
Nitrite as N	2.00	1.85	92	90 - 110	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173084

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 500-173084/3	Analysis Batch:	500-173084	Instrument ID:	IC4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\PEAKNET\DATA\201
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0955	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride	0.143	J	0.046	0.20
Sulfate	0.078	U	0.078	0.20

Lab Control Sample - Batch: 500-173084

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 500-173084/4	Analysis Batch:	500-173084	Instrument ID:	IC4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\PEAKNET\DATA\201
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 1010	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	3.00	2.94	98	90 - 110	
Sulfate	5.00	5.29	106	90 - 110	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173256

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 500-173256/28	Analysis Batch:	500-173256	Instrument ID:	PC-Titrate
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/17/2012 2224	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	1.2	U	1.2	5.0

Lab Control Sample - Batch: 500-173256

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 500-173256/29	Analysis Batch:	500-173256	Instrument ID:	PC-Titrate
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/17/2012 2230	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	100	104	104	80 - 120	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173377

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	MB 500-173377/3	Analysis Batch:	500-173377	Instrument ID:	TOC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1611	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
TOC Result 1	0.38	U	0.38	1.0
TOC Result 2	0.38	U	0.38	1.0
TOC Dup	0.38	U	0.38	1.0

Lab Control Sample - Batch: 500-173377

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	LCS 500-173377/4	Analysis Batch:	500-173377	Instrument ID:	TOC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1628	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
TOC Result 1	10.0	9.28	93	80 - 120	
TOC Result 2	10.0	9.22	92	80 - 120	
TOC Dup	10.0	9.25	93	80 - 120	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Method Blank - Batch: 500-173493

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	MB 500-173493/3	Analysis Batch:	500-173493	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/19/2012 0902	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
TOC Result 1	0.38	U	0.38	1.0
TOC Result 2	0.38	U	0.38	1.0
TOC Dup	0.38	U	0.38	1.0

Lab Control Sample - Batch: 500-173493

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	LCS 500-173493/4	Analysis Batch:	500-173493	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/19/2012 0925	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
TOC Result 1	10.0	9.33	93	80 - 120	
TOC Result 2	10.0	9.51	95	80 - 120	
TOC Dup	10.0	9.42	94	80 - 120	

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-173302					
LCS 500-173302/4	Lab Control Sample	T	Water	8260B	
MB 500-173302/8	Method Blank	T	Water	8260B	
500-53234-1	VLF-MW-3	T	Water	8260B	
500-53234-1DL	VLF-MW-3	T	Water	8260B	
500-53234-2	VLF-MW-4	T	Water	8260B	
500-53234-3	OLD-MW-4	T	Water	8260B	
500-53234-3DL	OLD-MW-4	T	Water	8260B	
500-53234-4	OLD-MW-9	T	Water	8260B	
500-53234-5	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

GC VOA					
Analysis Batch:200-49681					
LCS 200-49681/35	Lab Control Sample	T	Water	RSK-175	
MB 200-49681/36	Method Blank	T	Water	RSK-175	
500-53234-1	VLF-MW-3	T	Water	RSK-175	
500-53234-2	VLF-MW-4	T	Water	RSK-175	
500-53234-3	OLD-MW-4	T	Water	RSK-175	
500-53234-4	OLD-MW-9	T	Water	RSK-175	

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-172932					
LCS 500-172932/2-A	Lab Control Sample	T	Water	3010A	
MB 500-172932/1-A	Method Blank	T	Water	3010A	
500-53234-1	VLF-MW-3	T	Water	3010A	
500-53234-2	VLF-MW-4	T	Water	3010A	
500-53234-3	OLD-MW-4	T	Water	3010A	
500-53234-4	OLD-MW-9	T	Water	3010A	
Prep Batch: 500-172995					
LCS 500-172995/8-A	Lab Control Sample	T	Water	7470A	
MB 500-172995/7-A	Method Blank	T	Water	7470A	
500-53234-1	VLF-MW-3	T	Water	7470A	
500-53234-1DU	Duplicate	T	Water	7470A	
500-53234-1MS	Matrix Spike	T	Water	7470A	
500-53234-1MSD	Matrix Spike Duplicate	T	Water	7470A	
500-53234-2	VLF-MW-4	T	Water	7470A	
500-53234-3	OLD-MW-4	T	Water	7470A	
500-53234-4	OLD-MW-9	T	Water	7470A	
Analysis Batch:500-173118					
LCS 500-172932/2-A	Lab Control Sample	T	Water	6010B	500-172932
MB 500-172932/1-A	Method Blank	T	Water	6010B	500-172932
500-53234-1	VLF-MW-3	T	Water	6010B	500-172932
500-53234-2	VLF-MW-4	T	Water	6010B	500-172932
500-53234-3	OLD-MW-4	T	Water	6010B	500-172932
500-53234-4	OLD-MW-9	T	Water	6010B	500-172932
Analysis Batch:500-173161					
LCS 500-172995/8-A	Lab Control Sample	T	Water	7470A	500-172995
MB 500-172995/7-A	Method Blank	T	Water	7470A	500-172995
500-53234-1	VLF-MW-3	T	Water	7470A	500-172995
500-53234-1DU	Duplicate	T	Water	7470A	500-172995
500-53234-1MS	Matrix Spike	T	Water	7470A	500-172995
500-53234-1MSD	Matrix Spike Duplicate	T	Water	7470A	500-172995
500-53234-2	VLF-MW-4	T	Water	7470A	500-172995
500-53234-3	OLD-MW-4	T	Water	7470A	500-172995
500-53234-4	OLD-MW-9	T	Water	7470A	500-172995
Analysis Batch:500-173180					
500-53234-2	VLF-MW-4	T	Water	6010B	500-172932

Report Basis

T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-173019					
LCS 500-173019/45	Lab Control Sample	T	Water	300.0	
MB 500-173019/34	Method Blank	T	Water	300.0	
500-53234-1	VLF-MW-3	T	Water	300.0	
500-53234-2	VLF-MW-4	T	Water	300.0	
500-53234-3	OLD-MW-4	T	Water	300.0	
500-53234-4	OLD-MW-9	T	Water	300.0	
Analysis Batch:500-173084					
LCS 500-173084/4	Lab Control Sample	T	Water	300.0	
MB 500-173084/3	Method Blank	T	Water	300.0	
500-53234-1	VLF-MW-3	T	Water	300.0	
500-53234-2	VLF-MW-4	T	Water	300.0	
500-53234-3	OLD-MW-4	T	Water	300.0	
500-53234-4	OLD-MW-9	T	Water	300.0	
Analysis Batch:500-173256					
LCS 500-173256/29	Lab Control Sample	T	Water	SM 2320B	
MB 500-173256/28	Method Blank	T	Water	SM 2320B	
500-53234-1	VLF-MW-3	T	Water	SM 2320B	
500-53234-2	VLF-MW-4	T	Water	SM 2320B	
500-53234-3	OLD-MW-4	T	Water	SM 2320B	
500-53234-4	OLD-MW-9	T	Water	SM 2320B	
Analysis Batch:500-173377					
LCS 500-173377/4	Lab Control Sample	T	Water	SM 5310C	
MB 500-173377/3	Method Blank	T	Water	SM 5310C	
500-53234-1	VLF-MW-3	T	Water	SM 5310C	
500-53234-3	OLD-MW-4	T	Water	SM 5310C	
500-53234-4	OLD-MW-9	T	Water	SM 5310C	
Analysis Batch:500-173493					
LCS 500-173493/4	Lab Control Sample	T	Water	SM 5310C	
MB 500-173493/3	Method Blank	T	Water	SM 5310C	
500-53234-2	VLF-MW-4	T	Water	SM 5310C	

Report Basis

T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Laboratory Chronicle

Lab ID: 500-53234-1 **Client ID:** VLF-MW-3

Sample Date/Time: 12/12/2012 10:00 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53234-F-1		500-173302		12/19/2012 06:43	50	TAL CHI	EA
A:8260B	500-53234-F-1		500-173302		12/19/2012 06:43	50	TAL CHI	EA
P:5030B	500-53234-F-1	DL	500-173302		12/19/2012 07:09	500	TAL CHI	EA
A:8260B	500-53234-F-1	DL	500-173302		12/19/2012 07:09	500	TAL CHI	EA
A:RSK-175	500-53234-A-1		200-49681		12/17/2012 17:25	1	TAL BUR	TFS
P:3010A	500-53234-J-1-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	500-53234-J-1-A		500-173118	500-172932	12/14/2012 16:02	1	TAL CHI	PJ
P:7470A	500-53234-J-1-B		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-1-B		500-173161	500-172995	12/17/2012 09:27	1	TAL CHI	BJB
A:300.0	500-53234-I-1		500-173019		12/13/2012 18:56	1	TAL CHI	CLM
A:300.0	500-53234-I-1		500-173019		12/13/2012 19:09	10	TAL CHI	CLM
A:300.0	500-53234-A-1		500-173084		12/14/2012 10:41	100	TAL CHI	CLM
A:300.0	500-53234-A-1		500-173084		12/14/2012 10:56	200	TAL CHI	CLM
A:SM 2320B	500-53234-I-1		500-173256		12/18/2012 00:37	1	TAL CHI	CLM
A:SM 5310C	500-53234-D-1		500-173377		12/18/2012 17:52	1	TAL CHI	KD

Lab ID: 500-53234-1 MS **Client ID:** VLF-MW-3

Sample Date/Time: 12/12/2012 10:00 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	500-53234-J-1-D MS		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-1-D MS		500-173161	500-172995	12/17/2012 09:40	1	TAL CHI	BJB

Lab ID: 500-53234-1 MSD **Client ID:** VLF-MW-3

Sample Date/Time: 12/12/2012 10:00 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	500-53234-J-1-E MSD		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-1-E MSD		500-173161	500-172995	12/17/2012 09:42	1	TAL CHI	BJB

Lab ID: 500-53234-1 DU **Client ID:** VLF-MW-3

Sample Date/Time: 12/12/2012 10:00 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	500-53234-J-1-C DU		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-1-C DU		500-173161	500-172995	12/17/2012 09:29	1	TAL CHI	BJB

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Laboratory Chronicle

Lab ID: **500-53234-2** **Client ID:** **VLF-MW-4**

Sample Date/Time: 12/12/2012 12:28 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53234-F-2		500-173302		12/19/2012 05:51	1	TAL CHI	EA
A:8260B	500-53234-F-2		500-173302		12/19/2012 05:51	1	TAL CHI	EA
A:RSK-175	500-53234-B-2		200-49681		12/18/2012 09:14	5	TAL BUR	TFS
P:3010A	500-53234-J-2-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	500-53234-J-2-A		500-173118	500-172932	12/14/2012 16:14	1	TAL CHI	PJ
P:3010A	500-53234-J-2-A ^5		500-173180	500-172932	12/13/2012 15:00	5	TAL CHI	RL
A:6010B	500-53234-J-2-A ^5		500-173180	500-172932	12/17/2012 11:36	5	TAL CHI	TDS
P:7470A	500-53234-J-2-B		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-2-B		500-173161	500-172995	12/17/2012 09:44	1	TAL CHI	BJB
A:300.0	500-53234-I-2		500-173019		12/13/2012 19:49	1	TAL CHI	CLM
A:300.0	500-53234-A-2		500-173084		12/14/2012 10:25	25	TAL CHI	CLM
A:SM 2320B	500-53234-I-2		500-173256		12/18/2012 00:41	1	TAL CHI	CLM
A:SM 5310C	500-53234-E-2		500-173493		12/19/2012 11:27	2	TAL CHI	KD

Lab ID: **500-53234-3** **Client ID:** **OLD-MW-4**

Sample Date/Time: 12/12/2012 11:44 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53234-F-3		500-173302		12/19/2012 07:35	1	TAL CHI	EA
A:8260B	500-53234-F-3		500-173302		12/19/2012 07:35	1	TAL CHI	EA
P:5030B	500-53234-F-3	DL	500-173302		12/19/2012 08:01	10	TAL CHI	EA
A:8260B	500-53234-F-3	DL	500-173302		12/19/2012 08:01	10	TAL CHI	EA
A:RSK-175	500-53234-A-3		200-49681		12/17/2012 17:35	1	TAL BUR	TFS
P:3010A	500-53234-J-3-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	500-53234-J-3-A		500-173118	500-172932	12/14/2012 16:18	1	TAL CHI	PJ
P:7470A	500-53234-J-3-B		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-3-B		500-173161	500-172995	12/17/2012 09:47	1	TAL CHI	BJB
A:300.0	500-53234-I-3		500-173019		12/13/2012 19:22	1	TAL CHI	CLM
A:300.0	500-53234-A-3		500-173084		12/14/2012 11:12	50	TAL CHI	CLM
A:SM 2320B	500-53234-I-3		500-173256		12/18/2012 00:47	1	TAL CHI	CLM
A:SM 5310C	500-53234-D-3		500-173377		12/18/2012 18:25	1	TAL CHI	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Laboratory Chronicle

Lab ID: **500-53234-4** **Client ID:** **OLD-MW-9**

Sample Date/Time: 12/12/2012 14:29 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53234-F-4		500-173302		12/19/2012 06:17	1	TAL CHI	EA
A:8260B	500-53234-F-4		500-173302		12/19/2012 06:17	1	TAL CHI	EA
A:RSK-175	500-53234-A-4		200-49681		12/17/2012 17:41	1	TAL BUR	TFS
P:3010A	500-53234-J-4-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	500-53234-J-4-A		500-173118	500-172932	12/14/2012 16:22	1	TAL CHI	PJ
P:7470A	500-53234-J-4-B		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	500-53234-J-4-B		500-173161	500-172995	12/17/2012 09:49	1	TAL CHI	BJB
A:300.0	500-53234-I-4		500-173019		12/13/2012 20:42	1	TAL CHI	CLM
A:300.0	500-53234-A-4		500-173084		12/14/2012 11:27	20	TAL CHI	CLM
A:SM 2320B	500-53234-I-4		500-173256		12/18/2012 00:54	1	TAL CHI	CLM
A:SM 5310C	500-53234-D-4		500-173377		12/18/2012 18:41	1	TAL CHI	KD

Lab ID: **500-53234-5** **Client ID:** **TRIP BLANK**

Sample Date/Time: 12/12/2012 00:00 Received Date/Time: 12/13/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53234-F-5		500-173302		12/19/2012 05:25	1	TAL CHI	EA
A:8260B	500-53234-F-5		500-173302		12/19/2012 05:25	1	TAL CHI	EA

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 500-173302/8		500-173302		12/19/2012 04:33	1	TAL CHI	EA
A:8260B	MB 500-173302/8		500-173302		12/19/2012 04:33	1	TAL CHI	EA
A:RSK-175	MB 200-49681/36		200-49681		12/17/2012 15:03	1	TAL BUR	TFS
P:3010A	MB 500-172932/1-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	MB 500-172932/1-A		500-173118	500-172932	12/14/2012 15:30	1	TAL CHI	PJ
P:7470A	MB 500-172995/7-A		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	MB 500-172995/7-A		500-173161	500-172995	12/17/2012 09:13	1	TAL CHI	BJB
A:300.0	MB 500-173019/34		500-173019		12/13/2012 13:36	1	TAL CHI	CLM
A:300.0	MB 500-173084/3		500-173084		12/14/2012 09:55	1	TAL CHI	CLM
A:SM 2320B	MB 500-173256/28		500-173256		12/17/2012 22:24	1	TAL CHI	CLM
A:SM 5310C	MB 500-173377/3		500-173377		12/18/2012 16:11	1	TAL CHI	KD
A:SM 5310C	MB 500-173493/3		500-173493		12/19/2012 09:02	1	TAL CHI	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 500-173302/4		500-173302		12/19/2012 02:48	1	TAL CHI	EA
A:8260B	LCS 500-173302/4		500-173302		12/19/2012 02:48	1	TAL CHI	EA
A:RSK-175	LCS 200-49681/35		200-49681		12/17/2012 14:48	1	TAL BUR	TFS
P:3010A	LCS 500-172932/2-A		500-173118	500-172932	12/13/2012 15:00	1	TAL CHI	RL
A:6010B	LCS 500-172932/2-A		500-173118	500-172932	12/14/2012 15:33	1	TAL CHI	PJ
P:7470A	LCS 500-172995/8-A		500-173161	500-172995	12/14/2012 11:00	1	TAL CHI	BJB
A:7470A	LCS 500-172995/8-A		500-173161	500-172995	12/17/2012 10:40	1	TAL CHI	BJB
A:300.0	LCS 500-173019/45		500-173019		12/13/2012 16:03	1	TAL CHI	CLM
A:300.0	LCS 500-173084/4		500-173084		12/14/2012 10:10	1	TAL CHI	CLM
A:SM 2320B	LCS 500-173256/29		500-173256		12/17/2012 22:30	1	TAL CHI	CLM
A:SM 5310C	LCS 500-173377/4		500-173377		12/18/2012 16:28	1	TAL CHI	KD
A:SM 5310C	LCS 500-173493/4		500-173493		12/19/2012 09:25	1	TAL CHI	KD

Lab References:
TAL BUR = TestAmerica Burlington
TAL CHI = TestAmerica Chicago

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 LOW IS_00104	12/14/12	11/30/12	MEOH, Lot DA946	20 mL	8260 IS SK_00027	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Difluorobenzene	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Pentafluorobenzene	50 ug/mL
.8260 IS SK_00027	08/31/14		RESTEK, Lot AO88671		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Difluorobenzene	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Pentafluorobenzene	250 ug/mL
8260 LOW SS_00106	12/14/12	11/30/12	MEOH, Lot DA946	20 mL	8260 SS SK_00032	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 SS SK_00032	07/31/14		RESTEK, Lot A088175		(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
8260 LOW SS_00107	12/27/12	12/13/12	MEOH, Lot DA946	20 mL	8260 SS SK_00032	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 SS SK_00032	07/31/14		RESTEK, Lot A088175		(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
8260 STD WK_00216	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	8260 STD STK_00033	2 mL	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-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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	300 ug/mL
.8260 STD STK_00033	08/31/14		Restek, Lot A088677		(Purchased Reagent)		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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	300 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ACR/NITRSTDWK_00212	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	ACRNITSTDSK_00034	2 mL	Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
.ACRNITSTDSK_00034	02/28/13		Restek, Lot A091858		(Purchased Reagent)		Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
GAS STD WK RE_00254	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	GAS STD SK_00028	2 mL	Bromomethane	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
.GAS STD SK_00028	08/31/14		RESTEK, Lot A088739		(Purchased Reagent)		Bromomethane	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
GAS/DCFM SPK_00199	12/18/12	12/11/12	MEOH, Lot DG860	2 mL	GAS SPK PT_00025	50 uL	Vinyl chloride	50 ug/mL
.GAS SPK PT_00025	02/16/13	11/16/12	na, Lot na	1 mL	GAS SPK SK_00005	1 mL	Vinyl chloride	2000 ug/mL
..GAS SPK SK_00005	02/13/16		accustandard, Lot 212021011		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
KET/CS2 STDWK_00184	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	KET/CS2 SK_00014	2 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
.KET/CS2 SK_00014	11/30/13		Restek, Lot A088681		(Purchased Reagent)		2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
level 1_00011	12/31/16	03/20/12	1, Lot CY647	1 mL	level1std5ppm_00006	100 uL	Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	1 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
							Vinyl chloride	0.5 ug/mL
.level1std5ppm_00006	02/28/12	03/22/11	1, Lot CY647	2 mL	level18260wk_00006	100 uL	Benzene	5 ug/mL
							Ethylbenzene	5 ug/mL
							m-Xylene & p-Xylene	10 ug/mL
							o-Xylene	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	5 ug/mL
							Trichloroethene	5 ug/mL
					level1gaswk_00006	100 uL	Vinyl chloride	5 ug/mL
..level18260wk_00006	06/30/12	03/22/11	1, Lot NA	1 mL	level18260sk_00001	1 mL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
...level18260sk_00001	06/30/12	Restek, Lot AO67921			(Purchased Reagent)		Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..level1gaswk_00006	02/28/12	03/22/11	1, Lot CY647	2 mL	level1gaspt_00005	100 uL	Vinyl chloride	100 ug/mL
...level1gaspt_00005	02/28/12	03/22/11	MEOH, Lot NA	1 mL	level1gassk_00001	1 mL	Vinyl chloride	2000 ug/mL
....level1gassk_00001	02/28/12	SUPELCO, Lot LB65254			(Purchased Reagent)		Vinyl chloride	2000 ug/mL
LOW8260STD WK_00215	12/18/12	12/11/12	1, Lot DG860	1 mL	8260 STD WK_00216	50 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-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-Chlorohexane	5 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon tetrachloride	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethylbenzene	5 ug/mL
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	5 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							Trichloroethene	5 ug/mL
					GAS STD WK RE_00254	50 uL	Bromomethane	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
					KET/CS2 STDWK_00184	50 uL	2-Butanone (MEK)	5 ug/mL
							2-Hexanone	5 ug/mL
							4-Methyl-2-pentanone (MIBK)	5 ug/mL
							Acetone	5 ug/mL
							Carbon disulfide	5 ug/mL
					VA/2CEVESTDWK_00179	50 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Vinyl acetate	5 ug/mL
.8260 STD WK_00216	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	8260 STD STK_00033	2 mL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260 STD STK_00033	08/31/14	Restek, Lot A088677			(Purchased Reagent)		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-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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
.GAS STD WK RE_00254	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	GAS STD SK_00028	2 mL	Bromomethane	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
..GAS STD SK_00028	08/31/14		RESTEK, Lot A088739		(Purchased Reagent)		Bromomethane	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
.KET/CS2 STDWK_00184	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	KET/CS2 SK_00014	2 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
..KET/CS2 SK_00014	11/30/13		Restek, Lot A088681		(Purchased Reagent)		2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
.VA/2CEVESTDWK_00179	12/25/12	12/11/12	METHANOL, Lot DG860	2 mL	2-CEVE STD PT_00024	100 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VA STD PT_00025	100 uL	Vinyl acetate	100 ug/mL
..2-CEVE STD PT_00024	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	2-CEVESTDSK_00005	1 mL	2-Chloroethyl vinyl ether	2000 ug/mL
...2-CEVESTDSK_00005	11/30/16		Restek, Lot A085117		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VA STD PT_00025	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	VA STD SK_00007	1 mL	Vinyl acetate	2000 ug/mL
...VA STD SK_00007	03/31/14		RESTEK, Lot A090525		(Purchased Reagent)		Vinyl acetate	2000 ug/mL
LOWACRSTD WK_00193	12/18/12	12/11/12	MEOH, Lot DG860	1 mL	ACR/NITRSTDWK_00212	100 uL	Acetonitrile	80 ug/mL
							Acrolein	400 ug/mL
							Acrylonitrile	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propionitrile	80 ug/mL
.ACR/NITRSTDWK_00212	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	ACRNITSTDSK_00034	2 mL	Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
..ACRNITSTDSK_00034	02/28/13		Restek, Lot A091858		(Purchased Reagent)		Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
M11FSTKHG_00001	05/31/17		ULTRA, Lot L00365		(Purchased Reagent)		Mercury	1000 ug/mL
M12ASTKHG_00001	01/01/13		Inorganic Ventures, Lot E2-HG02091		(Purchased Reagent)		Mercury	1000 ug/mL
M12JSPKIC_00002	05/23/13	10/04/12	1, Lot N\A	500 mL	M12ESTKIC_00003	3 mL	Arsenic	10 ug/mL
					M12ESTKIC_00006	4 mL	Lead	10 ug/mL
					M12ESTKIC_00010	2.5 mL	Tl	10 ug/mL
					M12ESTKIC_00011	50 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M12ESTKIC_00012	50 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL
							Ni	50 ug/mL
							Selenium	10 ug/mL
							Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	50 ug/mL
					M12ESTKIC_00013	50 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL
							Silver	5 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
					M12ISTKIC_00004	4.5 mL	Selenium	10 ug/mL
.M12ESTKIC_00003	06/01/13		IV, Lot F2-AS02083		(Purchased Reagent)		Arsenic	1000 ug/mL
.M12ESTKIC_00006	06/01/13		IV, Lot F2-PB03035		(Purchased Reagent)		Lead	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.M12ESTKIC_00010	06/01/13	IV, Lot E2-TL01124			(Purchased Reagent)		Tl	1000 ug/mL
.M12ESTKIC_00011	05/23/13	EE, Lot 1214205			(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M12ESTKIC_00012	05/23/13	EE, Lot 1214206			(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M12ESTKIC_00013	05/23/13	EE, Lot 1214331			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
.M12ISTKIC_00004	09/01/13	IV, Lot E2-SE02033			(Purchased Reagent)		Selenium	1000 ug/mL
M12KCCVIC_00002	07/10/13	11/20/12	1, Lot N/A	1000 mL	M12GSTKIC_00002	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
					M12GSTKIC_00003	10 mL	Silver	0.5 ug/mL
.M12GSTKIC_00002	07/10/13	HP, Lot 1219103			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M12GSTKIC_00003	07/10/13	HP, Lot 1219104			(Purchased Reagent)		Silver	50 ug/mL
M12LCCVIC_00001	07/10/13	12/10/12	1, Lot N/A	1000 mL	M12GSTKIC_00002	10 mL	Arsenic	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
					M12GSTKIC_00003	10 mL	Silver	0.5 ug/mL
.M12GSTKIC_00002	07/10/13	HP, Lot 1219103			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M12GSTKIC_00003	07/10/13	HP, Lot 1219104			(Purchased Reagent)		Silver	50 ug/mL
M12LCRIIC_00001	06/01/13	12/03/12	1, Lot NA	1000 mL	M12ESTKIC_00002	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M12ESTKIC_00002	06/01/13	IV, Lot F2-MEB423074			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M12LICVIC_00001	07/10/13	12/06/12	1, Lot N/A	1000 mL	M12GSTKIC_00002	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M12GSTKIC_00003	8 mL	Silver	0.4 ug/mL
.M12GSTKIC_00002	07/10/13	HP, Lot 1219103			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M12GSTKIC_00003	07/10/13	HP, Lot 1219104			(Purchased Reagent)		Silver	50 ug/mL
M12LISAIC_00001	12/01/13	12/03/12	1, Lot na	1000 mL	M12KSTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M12KSTKIC_00003	12/01/13	IV, Lot F2-meb414132			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fe	2000 ug/mL
							Mg	5000 ug/mL
M12LISBIC_00001	09/01/13	12/03/12	1, Lot B51037	1000 mL	M12ISTKIC_00003	10 mL	Arsenic	0.1 ug/mL
							Barium	0.5 ug/mL
							Be	0.5 ug/mL
							Cadmium	1 ug/mL
							Chromium	0.5 ug/mL
							Co	0.5 ug/mL
							Cu	0.5 ug/mL
							Lead	0.05 ug/mL
							Mn	0.5 ug/mL
							Ni	1 ug/mL
							Sb	0.6 ug/mL
							Selenium	0.05 ug/mL
							Silver	0.2 ug/mL
							Tl	0.1 ug/mL
							V	0.5 ug/mL
							Zn	1 ug/mL
					M12KSTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M12ISTKIC_00003	09/01/13	IV, Lot E2-MEB399019			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	50 ug/mL
							Be	50 ug/mL
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL
							Selenium	5 ug/mL
							Silver	20 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	100 ug/mL
.M12KSTKIC_00003	12/01/13	IV, Lot F2-meb414132			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
VA/2CEVESTDWK_00179	12/25/12	12/11/12	METHANOL, Lot DG860	2 mL	2-CEVE STD PT_00024	100 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VA STD PT_00025	100 uL	Vinyl acetate	100 ug/mL
.2-CEVE STD PT_00024	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	2-CEVESTDSK_00005	1 mL	2-Chloroethyl vinyl ether	2000 ug/mL
..2-CEVESTDSK_00005	11/30/16	Restek, Lot A085117			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
.VA STD PT_00025	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	VA STD SK_00007	1 mL	Vinyl acetate	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VA STD SK_00007	03/31/14	RESTEK, Lot A090525			(Purchased Reagent)		Vinyl acetate	2000 ug/mL
VOC/THF SPK_00127	12/25/12	12/11/12	1, Lot DG860	2 mL	VOCLIQSPKPT_00021	50 uL	Benzene	50 mg/L
							cis-1,2-Dichloroethene	50 mg/L
							Ethylbenzene	50 mg/L
							m-Xylene & p-Xylene	100 mg/L
							o-Xylene	50 mg/L
							Tetrachloroethene	50 mg/L
							Toluene	50 mg/L
							trans-1,2-Dichloroethene	50 mg/L
							Trichloroethene	50 mg/L
							Xylenes, Total	150 mg/L
.VOCLIQSPKPT_00021	02/13/13	11/13/12	MEOH, Lot NA	1 mL	VOCLIQSPKSK_00006	1 mL	Benzene	2000 mg/L
							cis-1,2-Dichloroethene	2000 mg/L
							Ethylbenzene	2000 mg/L
							m-Xylene & p-Xylene	4000 mg/L
							o-Xylene	2000 mg/L
							Tetrachloroethene	2000 mg/L
							Toluene	2000 mg/L
							trans-1,2-Dichloroethene	2000 mg/L
							Trichloroethene	2000 mg/L
							Xylenes, Total	6000 mg/L
..VOCLIQSPKSK_00006	09/30/13	accustandard inc., Lot 211091246			(Purchased Reagent)		Benzene	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							o-Xylene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
WCSTAK_00006	06/11/13	baker, Lot y04h05 4 gms			(Purchased Reagent)		Alkalinity	5000 mg/L
WCSTTC1_00058	12/20/12	Mallinckrodt, Lot e16650			(Purchased Reagent)		TOC Dup	2000 mg/L
							TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
WCSTTC2_00072	01/11/13	J.T. Baker, Lot e41619			(Purchased Reagent)		TOC Dup	2000 mg/L
							TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
WSTICCL1_00007	02/28/14	ERA, Lot 220212			(Purchased Reagent)		Chloride	1000 mg/L
WSTICCL2_00007	10/31/13	RICCA, Lot 4204907			(Purchased Reagent)		Chloride	1000 mg/L
WSTICN031_00005	05/31/14	ERA, Lot 480412			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICNI1_00004	08/31/13	ERA, Lot 050811			(Purchased Reagent)		Nitrite as N	1000 mg/L
WSTICNO2II_00002	04/30/14	AccuStandard, Lot 212045119			(Purchased Reagent)		Nitrite as N	1000 ug/mL
WSTICNO32_00008	11/30/13	RICCA, Lot 4206191			(Purchased Reagent)		Nitrate as N	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WSTICS1_00006	03/31/14	ERA, Lot 240312			(Purchased Reagent)		Sulfate	1000 mg/L
WSTICS2_00005	12/31/12	RICCA, Lot 1106608			(Purchased Reagent)		Sulfate	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VGRSK175s_00014	02/16/14	SIGMA-Aldrich, Lot 363PLU1SPC06L			(Purchased Reagent)		Ethane	12300.8 ug/L
							Ethylene	11543.3 ug/L
							Methane	6516.45 ug/L
VGRSK175s_00015	07/03/14	SIGMA-Aldrich, Lot 157PLU2SPC06L			(Purchased Reagent)		Ethane	12300.8 ug/L
							Ethylene	11543.3 ug/L
							Methane	6516.45 ug/L

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

367246
ID: VGRSK175s_00014
Exp: 02/16/14 Expd MRV Open: 02/25/12
1%CO2,CO,Meth,Ethe,Etha,A

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

SIGMA-ALDRICH
P419854
595 NORTH HARRISON ROAD
BELLEFONTE PA 16823
US

DOCUMENT#:45174092 -001
PO#: P419854
ITEM #: T216-48
CUST ITEM #: 23462
DATE: 17Feb2012

ANALYTICAL ACCURACY: +/-02%
PRODUCT EXPIRATION: 16Feb2014

SCOTT LOT#: 363PLU1SPC06L

COMPONENT	REQUESTED GAS CONC MOLES		ANALYSIS (MOLES)	
ACETYLENE	1.	%	1.01	%
CARBON DIOXIDE	1.	%	1.00	%
CARBON MONOXIDE	1.	%	.999	%
ETHANE	1.	%	.997	%
ETHYLENE	1.	%	.999	%
METHANE	1.	%	1.00	%
NITROGEN		BALANCE		BALANCE

MANUFACTURED DATE: 17Feb2012 SCOTTY SIZE: 48

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

367970
ID: VGRSK175s_00015
Exp: 07/03/14 Prpd. MRV
1%CO2,CO,Meth,Ethe,Etha,A

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

SIGMA-ALDRICH
P423707
595 NORTH HARRISON ROAD
BELLEFONTE PA 16823
US

DOCUMENT#:46785122 -001
PO#: P423707
ITEM #: T216-48
CUST ITEM #: 23462
DATE: 03Jul2012

ANALYTICAL ACCURACY: +/-2%
PRODUCT EXPIRATION: 03Jul2014

SCOTT LOT#: 157PLU2SPC06L

COMPONENT	REQUESTED GAS CONC MOLES		ANALYSIS (MOLES)	
ACETYLENE	1.	%	1.03	%
CARBON DIOXIDE	1.	%	1.00	%
CARBON MONOXIDE	1.	%	1.00	%
ETHANE	1.	%	1.00	%
ETHYLENE	1.	%	1.00	%
METHANE	1.	%	1.00	%
NITROGEN		BALANCE		BALANCE

MANUFACTURED DATE: 03Jul2012 SCOTTY SIZE: 48

APPROVED BY: JAKE SENKOW

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Vulcan Louisville Fansteel

TestAmerica Job ID: 500-53234-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAP	9	01132CA
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Georgia	State Program	4	N/A
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAP	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAP	7	E-10161
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Kentucky (UST)	State Program	4	66
TestAmerica Chicago	L-A-B	DoD ELAP		L2304
TestAmerica Chicago	L-A-B	ISO/IEC 17025		L2304
TestAmerica Chicago	Louisiana	NELAP	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina DENR	State Program	4	291
TestAmerica Chicago	North Dakota	State Program	8	R-194
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAP	6	T104704252-09-TX
TestAmerica Chicago	USDA	Federal		P330-12-00038
TestAmerica Chicago	Virginia	NELAP	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Louisiana	NELAP	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Virginia	NELAP	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
VLF-MW-3	500-53234-1	99	97	96	90
VLF-MW-3 DL	500-53234-1 DL	99	96	99	91
VLF-MW-4	500-53234-2	97	97	100	94
OLD-MW-4	500-53234-3	105	97	99	93
OLD-MW-4 DL	500-53234-3 DL	101	96	97	91
OLD-MW-9	500-53234-4	101	98	101	92
TRIP BLANK	500-53234-5	101	93	98	92
	MB 500-173302/8	91	90	98	91
	LCS 500-173302/4	103	99	99	96

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-125
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

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.: 500-53234-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 22S1218P.D

Lab ID: LCS 500-173302/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	50.0	45.2	90	70-120	
trans-1,2-Dichloroethene	50.0	46.7	93	70-124	
cis-1,2-Dichloroethene	50.0	46.7	93	70-120	
Ethylbenzene	50.0	45.4	91	75-120	
Trichloroethene	50.0	45.2	90	70-120	
Tetrachloroethene	50.0	44.9	90	70-123	
Toluene	50.0	45.4	91	70-120	
Vinyl chloride	50.0	40.4	81	62-138	
Xylenes, Total	150	133	88	70-120	

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.: 500-53234-1

SDG No.:

Lab File ID: 22M1218Q.D Lab Sample ID: MB 500-173302/8

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

Instrument ID: CMS22 Date Analyzed: 12/19/2012 04:33

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 500-173302/4	22S1218P.D	12/19/2012 02:48
TRIP BLANK	500-53234-5	53234-05.D	12/19/2012 05:25
VLF-MW-4	500-53234-2	53234-02.D	12/19/2012 05:51
OLD-MW-9	500-53234-4	53234-04.D	12/19/2012 06:17
VLF-MW-3	500-53234-1	53234-01.D	12/19/2012 06:43
VLF-MW-3 DL	500-53234-1 DL	53234-01A.D	12/19/2012 07:09
OLD-MW-4	500-53234-3	53234-03.D	12/19/2012 07:35
OLD-MW-4 DL	500-53234-3 DL	53234-03A.D	12/19/2012 08:01

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab File ID: 22B1211.D BFB Injection Date: 12/11/2012

Instrument ID: CMS22 BFB Injection Time: 13:45

Analysis Batch No.: 172615

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.6	
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	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	86.2	
175	5.0 - 9.0 % of mass 174	5.9	(6.8)1
176	95.0 - 101.0 % of mass 174	86.4	(100.2)1
177	5.0 - 9.0 % of mass 176	4.9	(5.7)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 500-172615/2	22I1211A.D	12/11/2012	14:23
	STD02 500-172615/3	22I1211B.D	12/11/2012	14:51
	STD03 500-172615/4	22I1211C.D	12/11/2012	15:20
	STD04 500-172615/5	22I1211D.D	12/11/2012	15:48
	STD05 500-172615/6	22I1211E.D	12/11/2012	16:16
	STD06 500-172615/7	22I1211F.D	12/11/2012	16:44
	STD07 500-172615/8	22I1211G.D	12/11/2012	17:13
	STD08 500-172615/9	22I1211H.D	12/11/2012	17:41
	STD09 500-172615/10	22I1211I.D	12/11/2012	18:09
	ICV 500-172615/23	22S1211.D	12/12/2012	00:17

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab File ID: 22B1218P.D BFB Injection Date: 12/19/2012

Instrument ID: CMS22 BFB Injection Time: 01:18

Analysis Batch No.: 173302

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.6	
75	30.0 - 60.0 % of mass 95	49.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.7	(0.7)1
174	50.0 - 120.00 % of mass 95	91.1	
175	5.0 - 9.0 % of mass 174	7.2	(7.9)1
176	95.0 - 101.0 % of mass 174	88.4	(97.1)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
	CCV 500-173302/2	22C1218P.D	12/19/2012	01:56
	CCV 500-173302/3	22D1218P.D	12/19/2012	02:22
	LCS 500-173302/4	22S1218P.D	12/19/2012	02:48
	MB 500-173302/8	22M1218Q.D	12/19/2012	04:33
TRIP BLANK	500-53234-5	53234-05.D	12/19/2012	05:25
VLF-MW-4	500-53234-2	53234-02.D	12/19/2012	05:51
OLD-MW-9	500-53234-4	53234-04.D	12/19/2012	06:17
VLF-MW-3	500-53234-1	53234-01.D	12/19/2012	06:43
VLF-MW-3 DL	500-53234-1 DL	53234-01A.D	12/19/2012	07:09
OLD-MW-4	500-53234-3	53234-03.D	12/19/2012	07:35
OLD-MW-4 DL	500-53234-3 DL	53234-03A.D	12/19/2012	08:01

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Sample No.: STD06 500-172615/7 Date Analyzed: 12/11/2012 16:44

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 22I1211F.D Heated Purge: (Y/N) N

Calibration ID: 10830

		PFB		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		704869	6.27	986088	7.24	835432	10.64
UPPER LIMIT		1409738	6.77	1972176	7.74	1670864	11.14
LOWER LIMIT		352435	5.77	493044	6.74	417716	10.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-172615/23		772269	6.26	1099840	7.24	931671	10.64
CCV 500-173302/2		698618	6.26	1017505	7.24	880613	10.64
CCV 500-173302/3		650802	6.26	937932	7.24	791055	10.64
LCS 500-173302/4		697265	6.26	995163	7.24	862112	10.64
MB 500-173302/8		820970	6.26	1115473	7.24	922121	10.64
500-53234-5	TRIP BLANK	703664	6.26	1034587	7.24	863429	10.64
500-53234-2	VLF-MW-4	683138	6.26	955765	7.24	813699	10.64
500-53234-4	OLD-MW-9	614014	6.26	886466	7.24	744227	10.64
500-53234-1	VLF-MW-3	696050	6.26	1012638	7.24	845349	10.64
500-53234-1 DL	VLF-MW-3 DL	654013	6.26	942599	7.24	797755	10.64
500-53234-3	OLD-MW-4	682024	6.26	995328	7.24	840674	10.64
500-53234-3 DL	OLD-MW-4 DL	636446	6.26	935002	7.24	797062	10.64

PFB = Pentafluorobenzene
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

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.: 500-53234-1

SDG No.:

Sample No.: STD06 500-172615/7 Date Analyzed: 12/11/2012 16:44

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 22I1211F.D Heated Purge: (Y/N) N

Calibration ID: 10830

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		501593	13.08				
UPPER LIMIT		1003186	13.58				
LOWER LIMIT		250797	12.58				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-172615/23		542063	13.08				
CCV 500-173302/2		501518	13.08				
CCV 500-173302/3		406641	13.07				
LCS 500-173302/4		494914	13.08				
MB 500-173302/8		473802	13.08				
500-53234-5	TRIP BLANK	433388	13.08				
500-53234-2	VLF-MW-4	432973	13.08				
500-53234-4	OLD-MW-9	381332	13.08				
500-53234-1	VLF-MW-3	433236	13.08				
500-53234-1 DL	VLF-MW-3 DL	415703	13.08				
500-53234-3	OLD-MW-4	424652	13.08				
500-53234-3 DL	OLD-MW-4 DL	411805	13.08				

DCB = 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.: 500-53234-1

SDG No.:

Client Sample ID: VLF-MW-3 | Lab Sample ID: 500-53234-1

Matrix: Water | Lab File ID: 53234-01.D

Analysis Method: 8260B | Date Collected: 12/12/2012 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 06:43

Soil Aliquot Vol: | Dilution Factor: 50

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3.7	U	25	3.7
156-60-5	trans-1,2-Dichloroethene	220		50	13
100-41-4	Ethylbenzene	6.5	U	25	6.5
127-18-4	Tetrachloroethene	8.5	U	50	8.5
108-88-3	Toluene	5.5	U	25	5.5
75-01-4	Vinyl chloride	380		25	5.0
1330-20-7	Xylenes, Total	3.4	U	50	3.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-125
2037-26-5	Toluene-d8 (Surr)	96		75-120
460-00-4	4-Bromofluorobenzene (Surr)	90		75-120
1868-53-7	Dibromofluoromethane	99		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01.D		
Lims ID:	500-53234-F-1	Client ID:	VLF-MW-3
Inject. Date:	19-Dec-2012 06:43:30	Dil. Factor:	50.0000
Sample Type:	Client		
Sample ID:	500-53234-F-1		
Misc. Info.:	500-0014440-013		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	41
Lims Batch ID:	173302	Lims Sample ID:	13
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 11:14:54	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: alikpalae Date: 19-Dec-2012 10:50:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.660	1.660	0.0	83	67150	7.56	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	89	27788	4.44	
29 cis-1,2-Dichloroethene	96	5.473	5.470	0.003	87	2019781	318.6	E
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	71	273806	49.3	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	696050	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	273426	48.3	
* 49 1,4-Difluorobenzene	114	7.241	7.238	0.003	95	1012638	50.0	
50 Trichloroethene	130	7.565	7.565	0.0	90	3008566	430.6	E
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	86	1156363	48.2	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	845349	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	381673	45.1	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	433236	50.0	

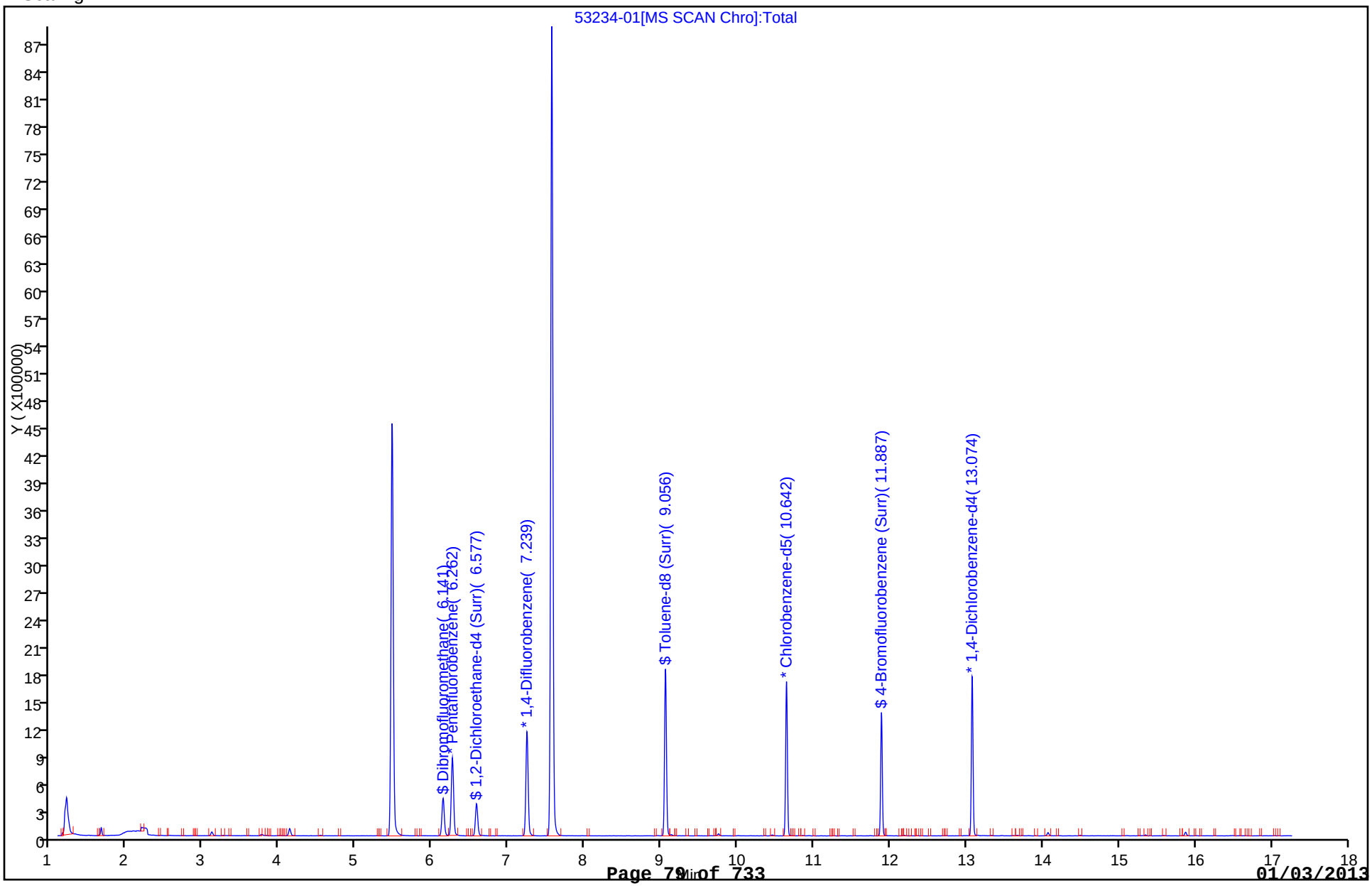
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Dec-2012 11:14:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01.D		
Injection Date:	19-Dec-2012 06:43:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	13
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

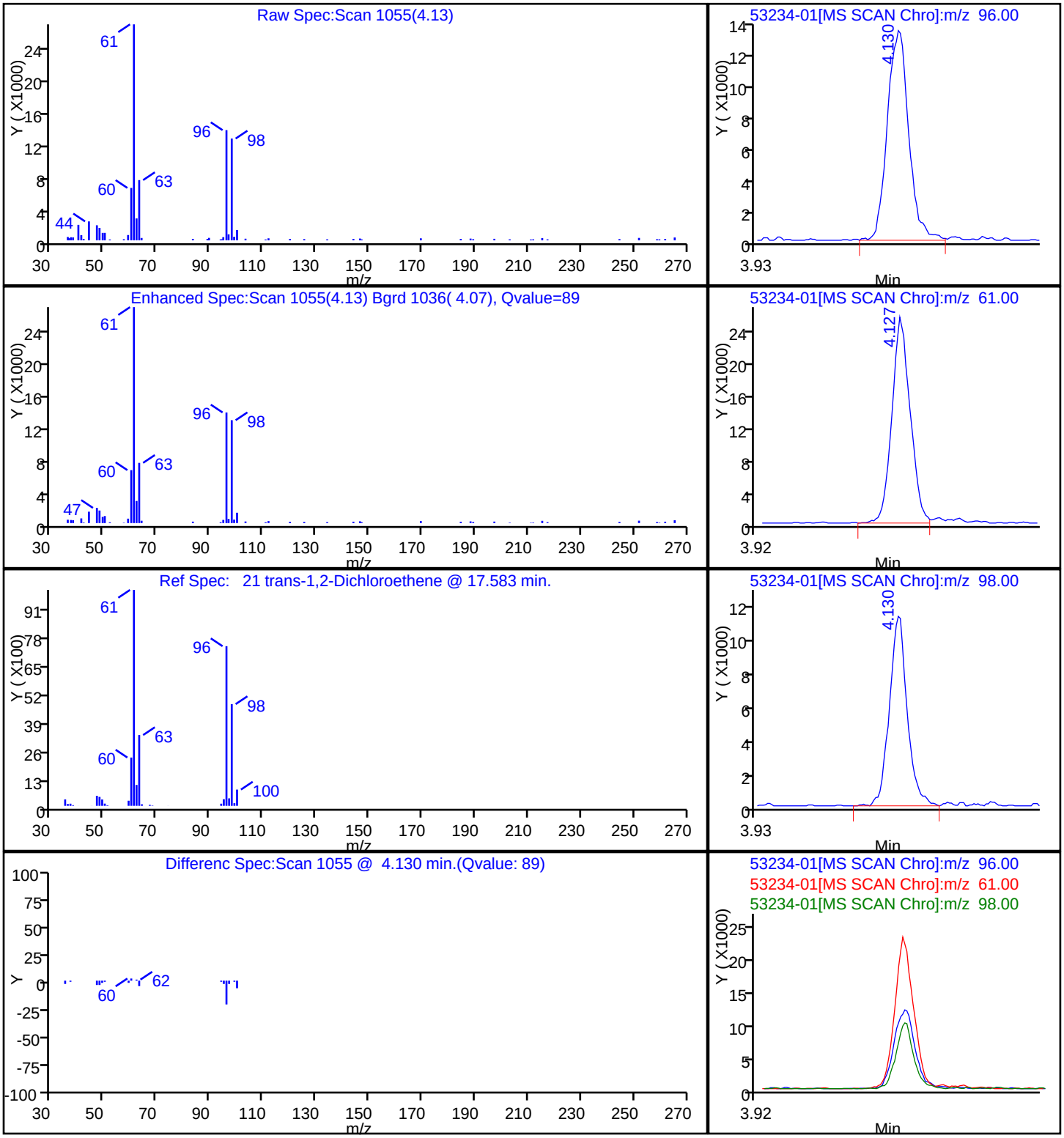


Report Date: 19-Dec-2012 11:14:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01.D		
Injection Date:	19-Dec-2012 06:43:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	13
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

21 trans-1,2-Dichloroethene

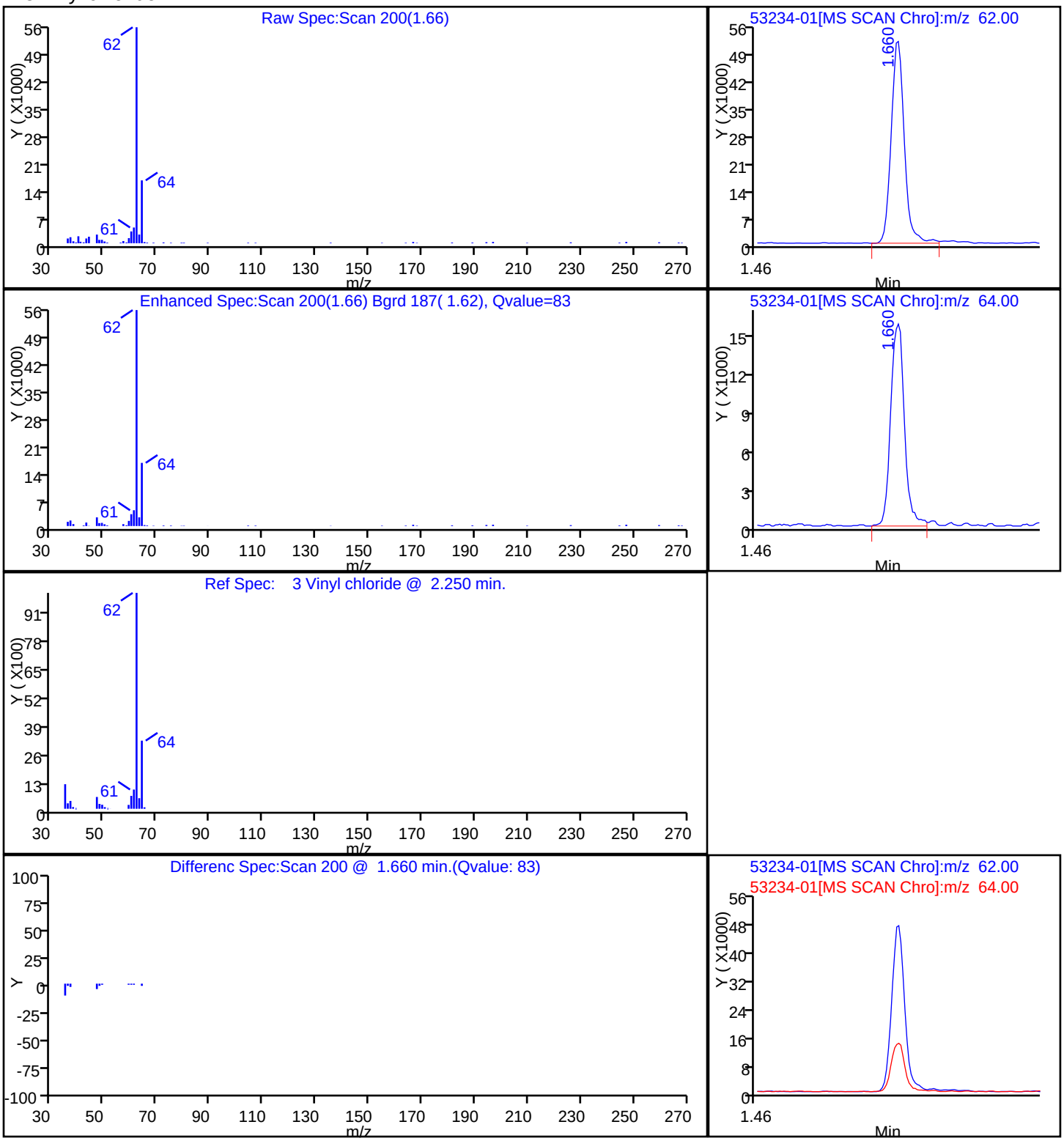


Report Date: 19-Dec-2012 11:14:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01.D		
Injection Date:	19-Dec-2012 06:43:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	13
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

3 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: VLF-MW-3 DL | Lab Sample ID: 500-53234-1 DL

Matrix: Water | Lab File ID: 53234-01A.D

Analysis Method: 8260B | Date Collected: 12/12/2012 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 07:09

Soil Aliquot Vol: | Dilution Factor: 500

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	15000		500	60
79-01-6	Trichloroethene	20000		250	95

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	91		75-120
1868-53-7	Dibromofluoromethane	99		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01A.D		
Lims ID:	500-53234-F-1	Client ID:	VLF-MW-3
Inject. Date:	19-Dec-2012 07:09:30	Dil. Factor:	500.0000
Sample Type:	Client		
Sample ID:	500-53234-F-1		
Misc. Info.:	500-0014440-014		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	42
Lims Batch ID:	173302	Lims Sample ID:	14
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 10:53:16	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

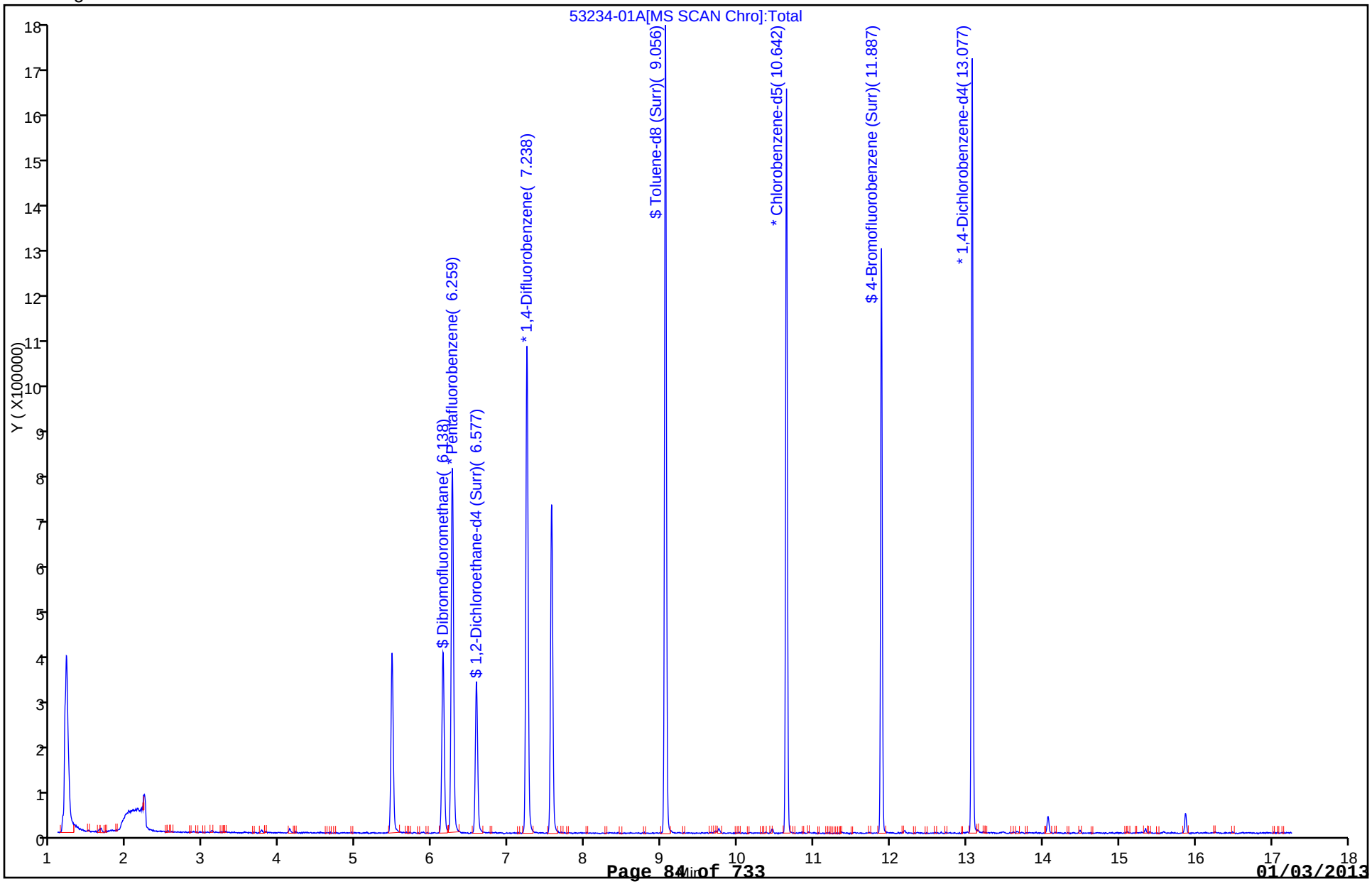
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:53:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
29 cis-1,2-Dichloroethene	96	5.473	5.470	0.003	88	175978	29.5	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	65	257702	49.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	654013	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	251507	47.8	
* 49 1,4-Difluorobenzene	114	7.241	7.238	0.003	95	942599	50.0	
50 Trichloroethene	130	7.559	7.565	-0.006	90	261871	40.3	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	86	1109604	49.7	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	797755	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	361562	45.3	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	94	415703	50.0	

Report Date: 19-Dec-2012 10:53:17 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01A.D		
Injection Date:	19-Dec-2012 07:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	14
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

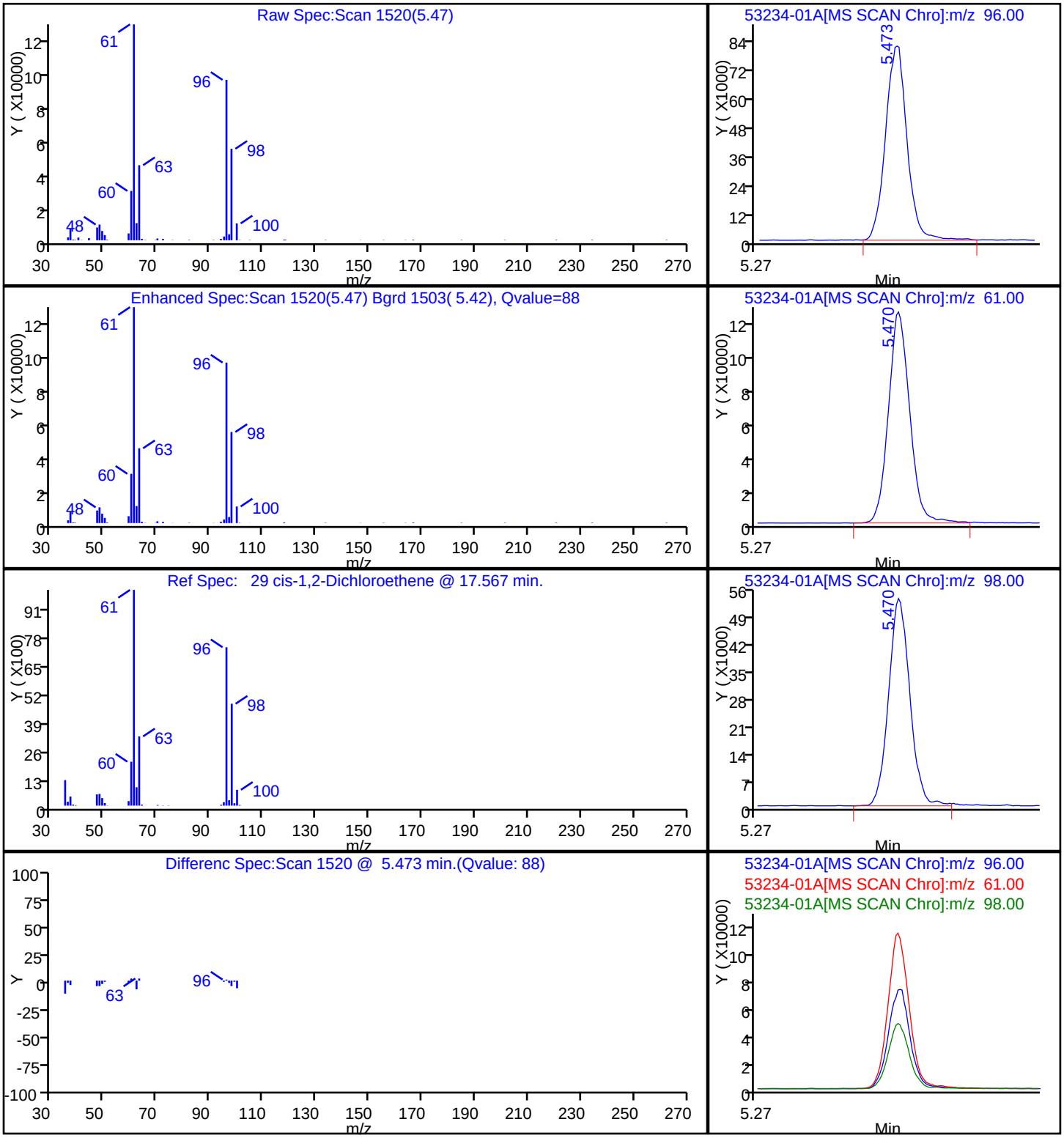


Report Date: 19-Dec-2012 10:53:17 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01A.D		
Injection Date:	19-Dec-2012 07:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	14
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene

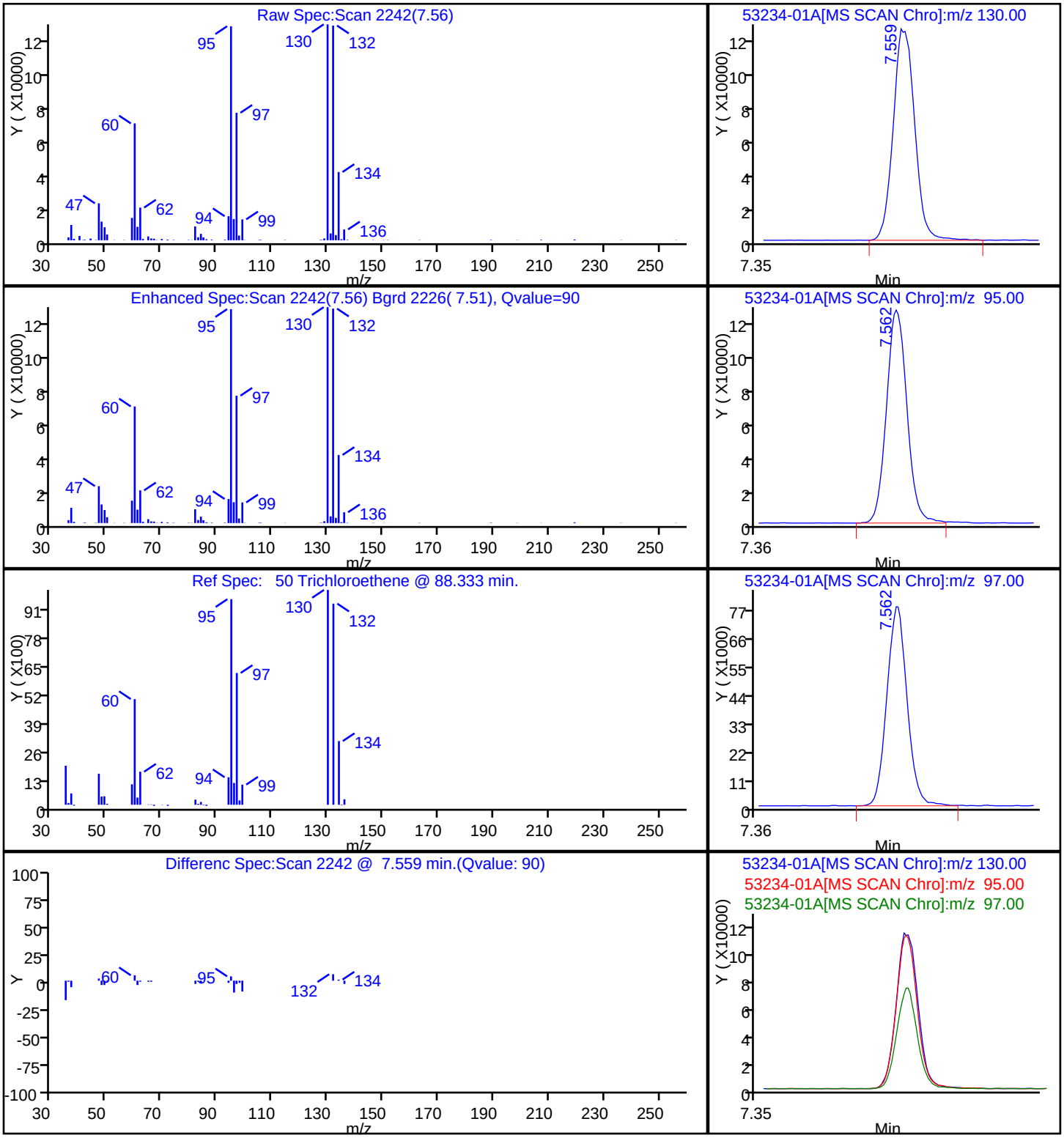


Report Date: 19-Dec-2012 10:53:17 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-01A.D		
Injection Date:	19-Dec-2012 07:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-3	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	14
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: VLF-MW-4 | Lab Sample ID: 500-53234-2

Matrix: Water | Lab File ID: 53234-02.D

Analysis Method: 8260B | Date Collected: 12/12/2012 12:28

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 05:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	1.5		1.0	0.25
156-59-2	cis-1,2-Dichloroethene	50		1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	9.7		0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	20		0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-125
2037-26-5	Toluene-d8 (Surr)	100		75-120
460-00-4	4-Bromofluorobenzene (Surr)	94		75-120
1868-53-7	Dibromofluoromethane	97		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Lims ID:	500-53234-F-2	Client ID:	VLF-MW-4
Inject. Date:	19-Dec-2012 05:51:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53234-F-2		
Misc. Info.:	500-0014440-011		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	39
Lims Batch ID:	173302	Lims Sample ID:	11
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 11:13:28	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

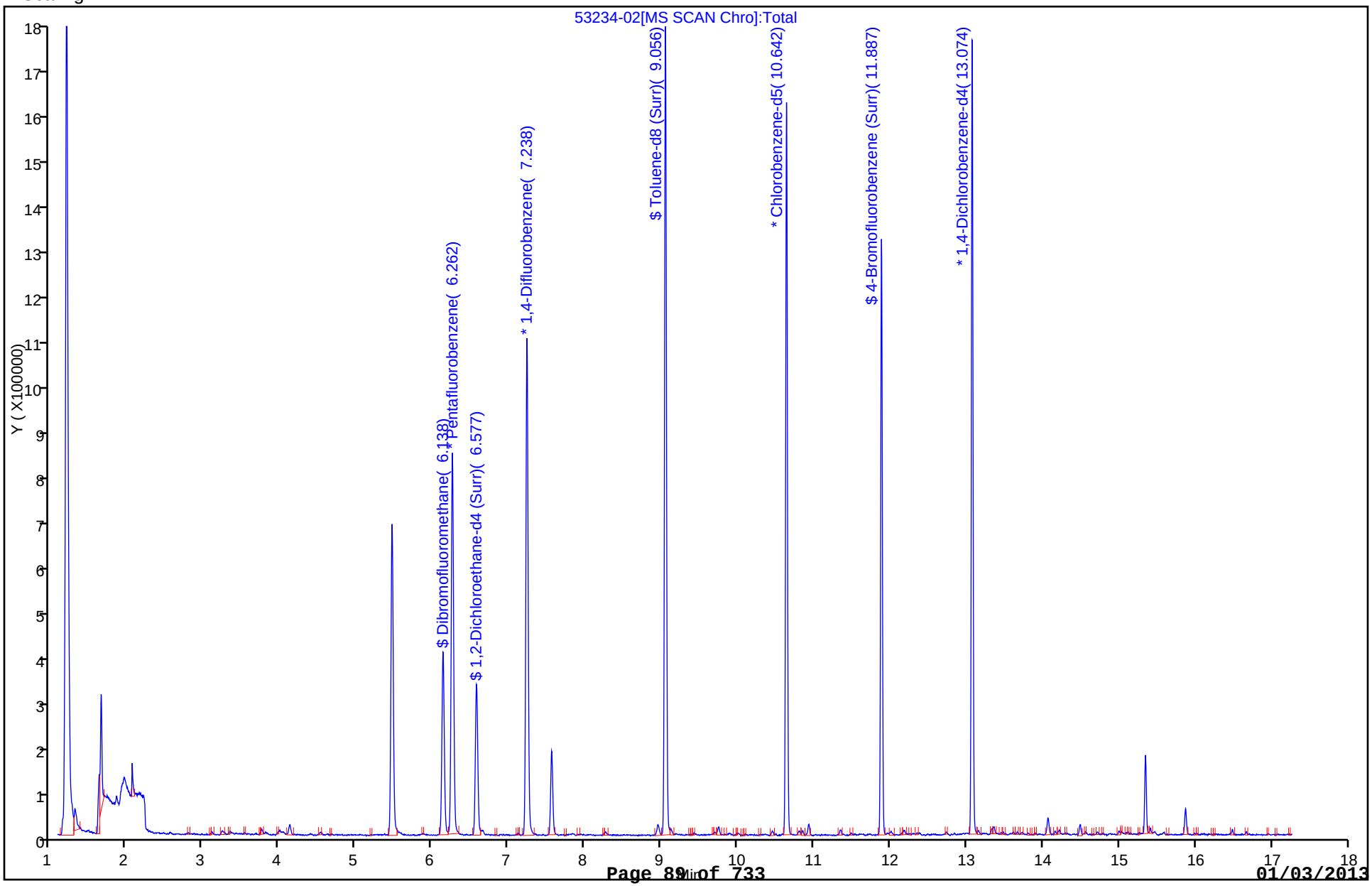
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:49:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.657	1.660	-0.003	81	171717	19.7	
21 trans-1,2-Dichloroethene	96	4.127	4.130	-0.003	82	8931	1.45	
29 cis-1,2-Dichloroethene	96	5.473	5.470	0.003	88	312388	50.2	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	67	263279	48.3	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	683138	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	259411	48.6	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	95	955765	50.0	
50 Trichloroethene	130	7.562	7.565	-0.003	88	64166	9.73	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	95	1131673	50.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	813699	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	383580	47.1	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	432973	50.0	

Report Date: 19-Dec-2012 11:13:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Injection Date:	19-Dec-2012 05:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	11
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

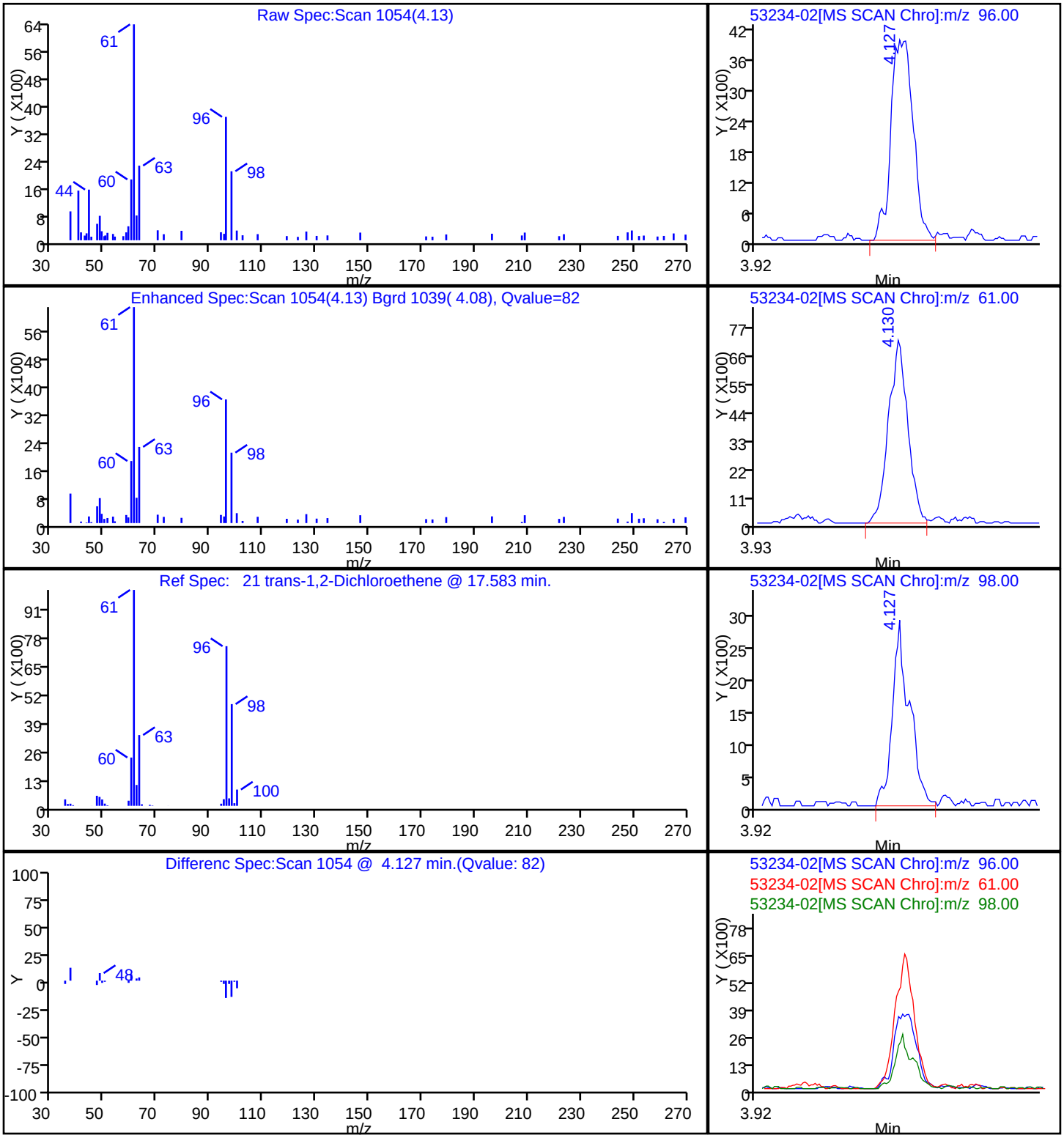


Report Date: 19-Dec-2012 11:13:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Injection Date:	19-Dec-2012 05:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	11
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

21 trans-1,2-Dichloroethene

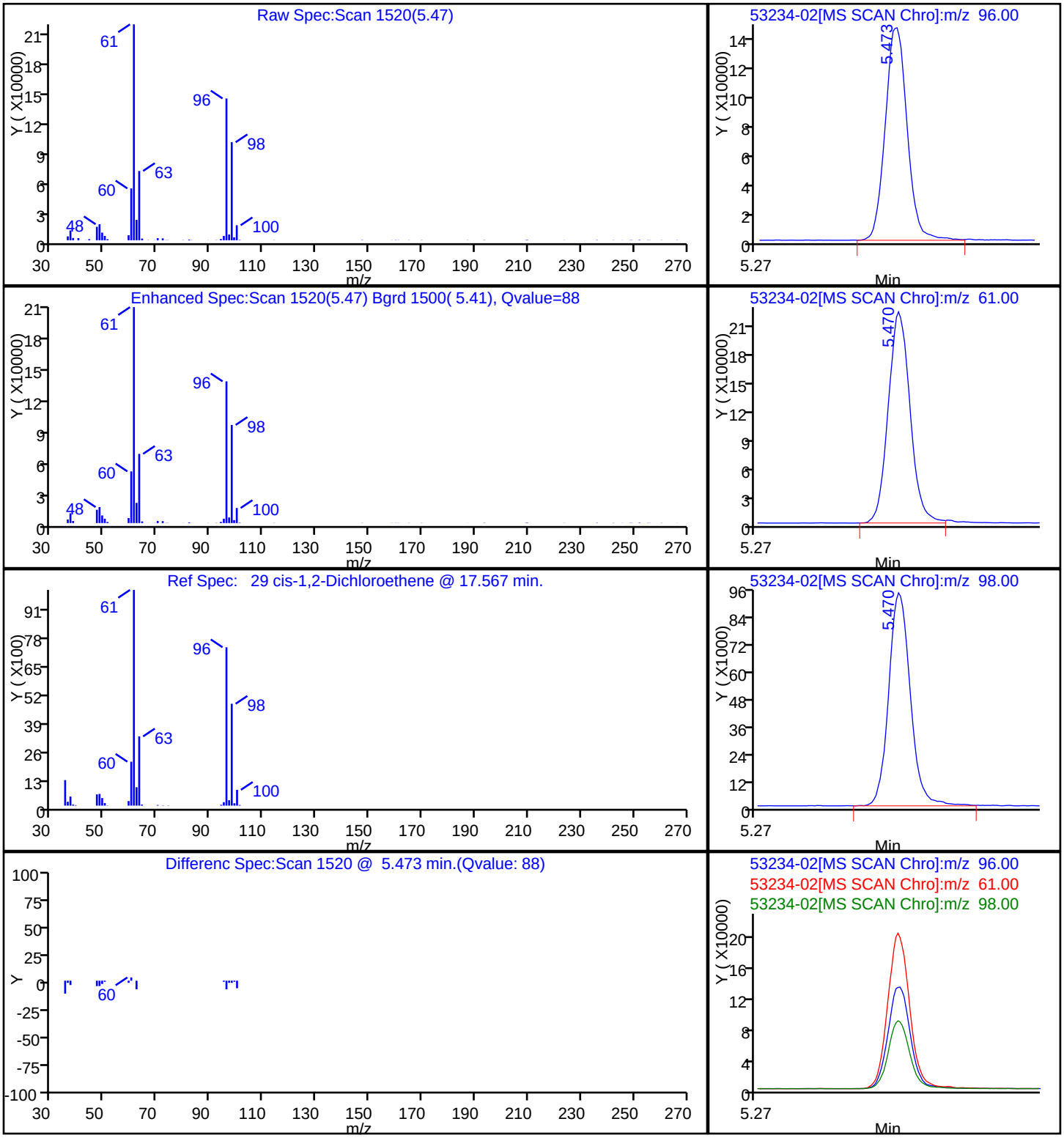


Report Date: 19-Dec-2012 11:13:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Injection Date:	19-Dec-2012 05:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	11
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene

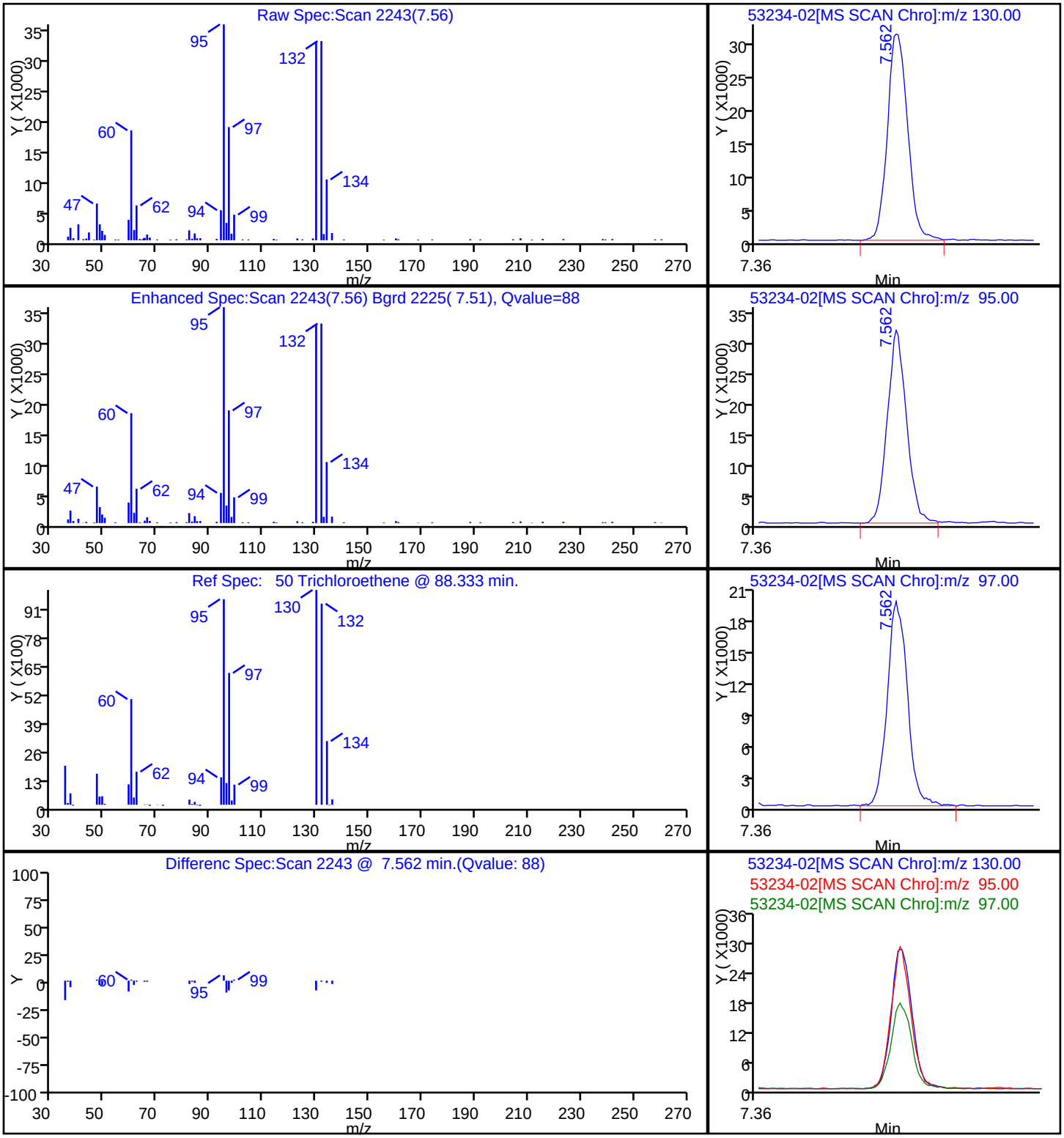


Report Date: 19-Dec-2012 11:13:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Injection Date:	19-Dec-2012 05:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	11
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene

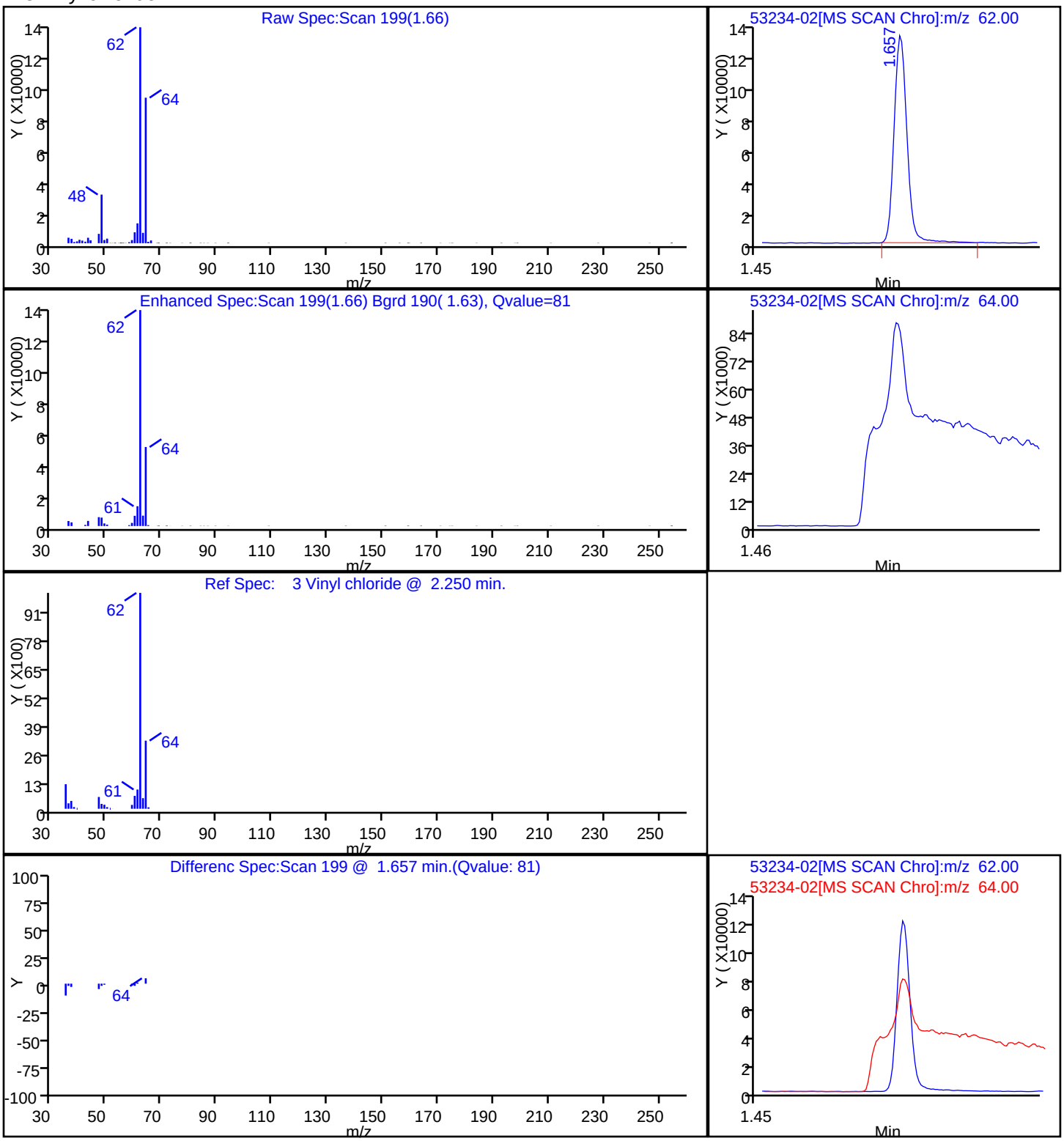


Report Date: 19-Dec-2012 11:13:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-02.D		
Injection Date:	19-Dec-2012 05:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	11
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

3 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: OLD-MW-4 | Lab Sample ID: 500-53234-3

Matrix: Water | Lab File ID: 53234-03.D

Analysis Method: 8260B | Date Collected: 12/12/2012 11:44

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 07:35

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	18		1.0	0.25
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	35		0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	93		75-120
1868-53-7	Dibromofluoromethane	105		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03.D		
Lims ID:	500-53234-F-3	Client ID:	OLD-MW-4
Inject. Date:	19-Dec-2012 07:35:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53234-F-3		
Misc. Info.:	500-0014440-015		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	43
Lims Batch ID:	173302	Lims Sample ID:	15
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 11:14:05	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: alikpalae Date: 19-Dec-2012 10:54:22

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.657	1.660	-0.003	83	301067	34.6	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	107495	17.5	
29 cis-1,2-Dichloroethene	96	5.470	5.470	0.0	87	3972812	639.5	E
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	72	284511	52.3	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	682024	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	268802	48.3	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	95	995328	50.0	
50 Trichloroethene	130	7.565	7.565	0.0	90	1949529	283.9	E
$ 61 Toluene-d8 (Surr)	98	9.055	9.056	-0.001	85	1164236	49.4	
* 71 Chlorobenzene-d5	117	10.641	10.642	-0.001	88	840674	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	389405	46.3	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	424652	50.0	

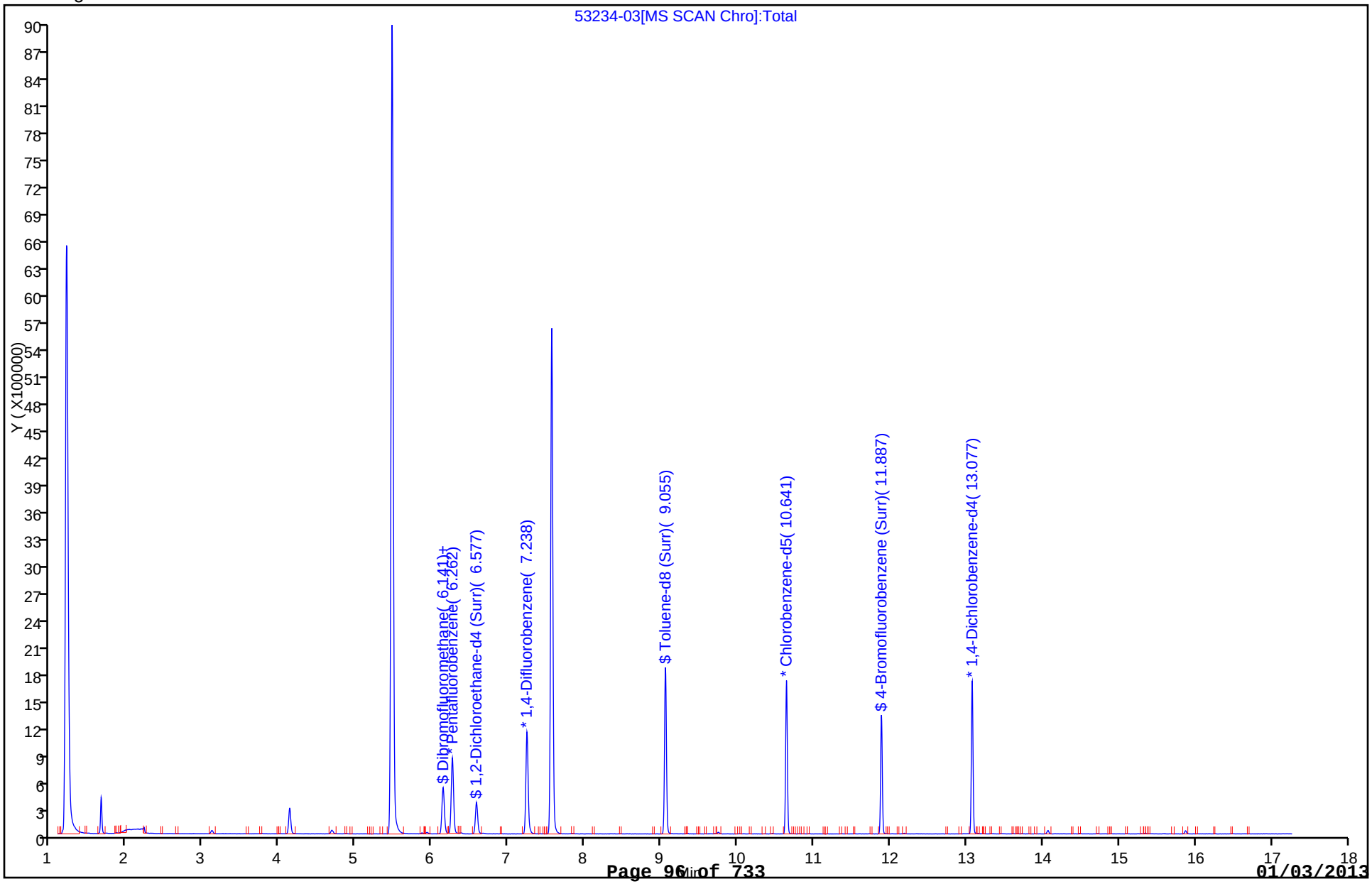
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Dec-2012 11:14:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03.D		
Injection Date:	19-Dec-2012 07:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	15
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

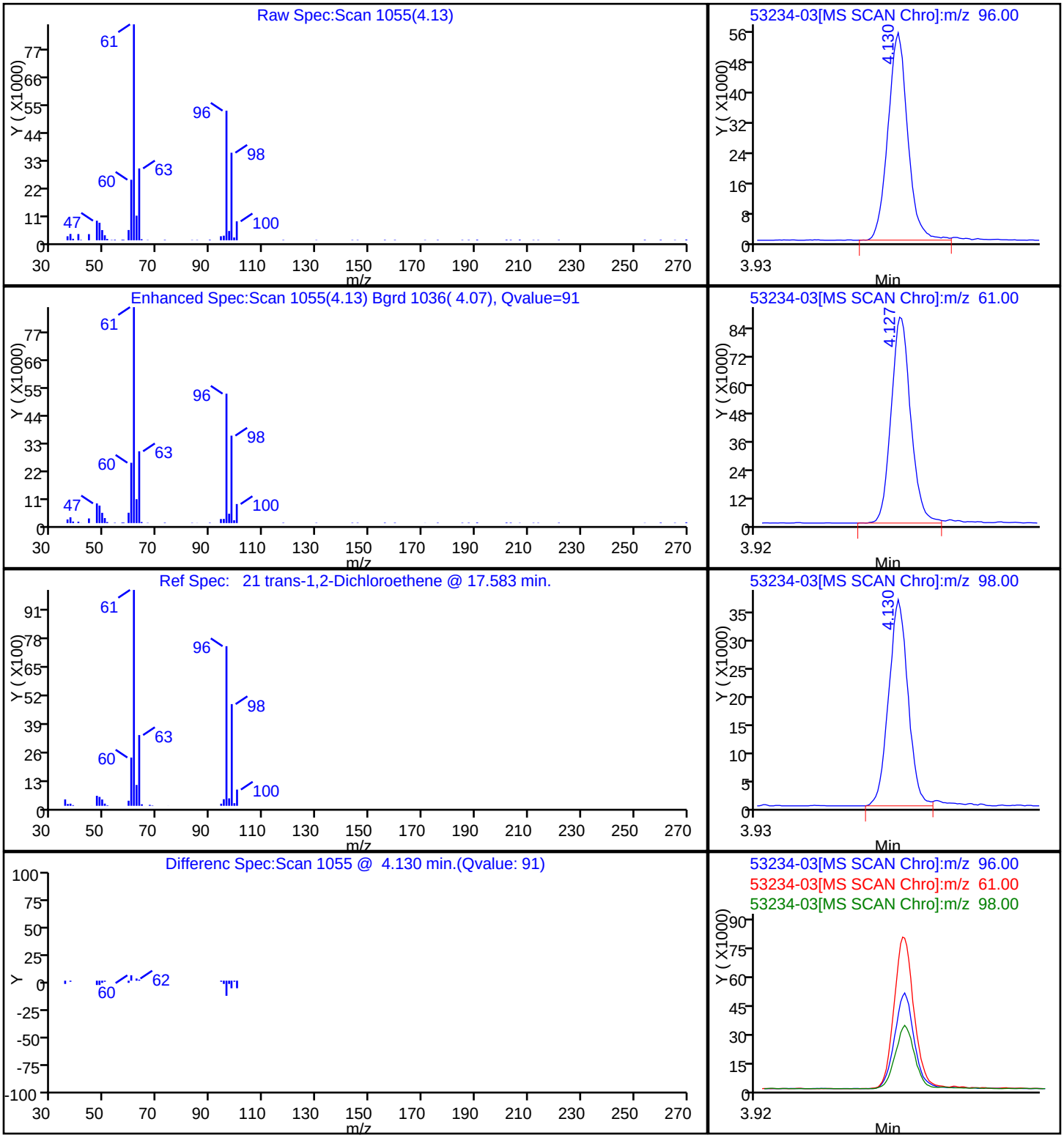


Report Date: 19-Dec-2012 11:14:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03.D		
Injection Date:	19-Dec-2012 07:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	15
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

21 trans-1,2-Dichloroethene

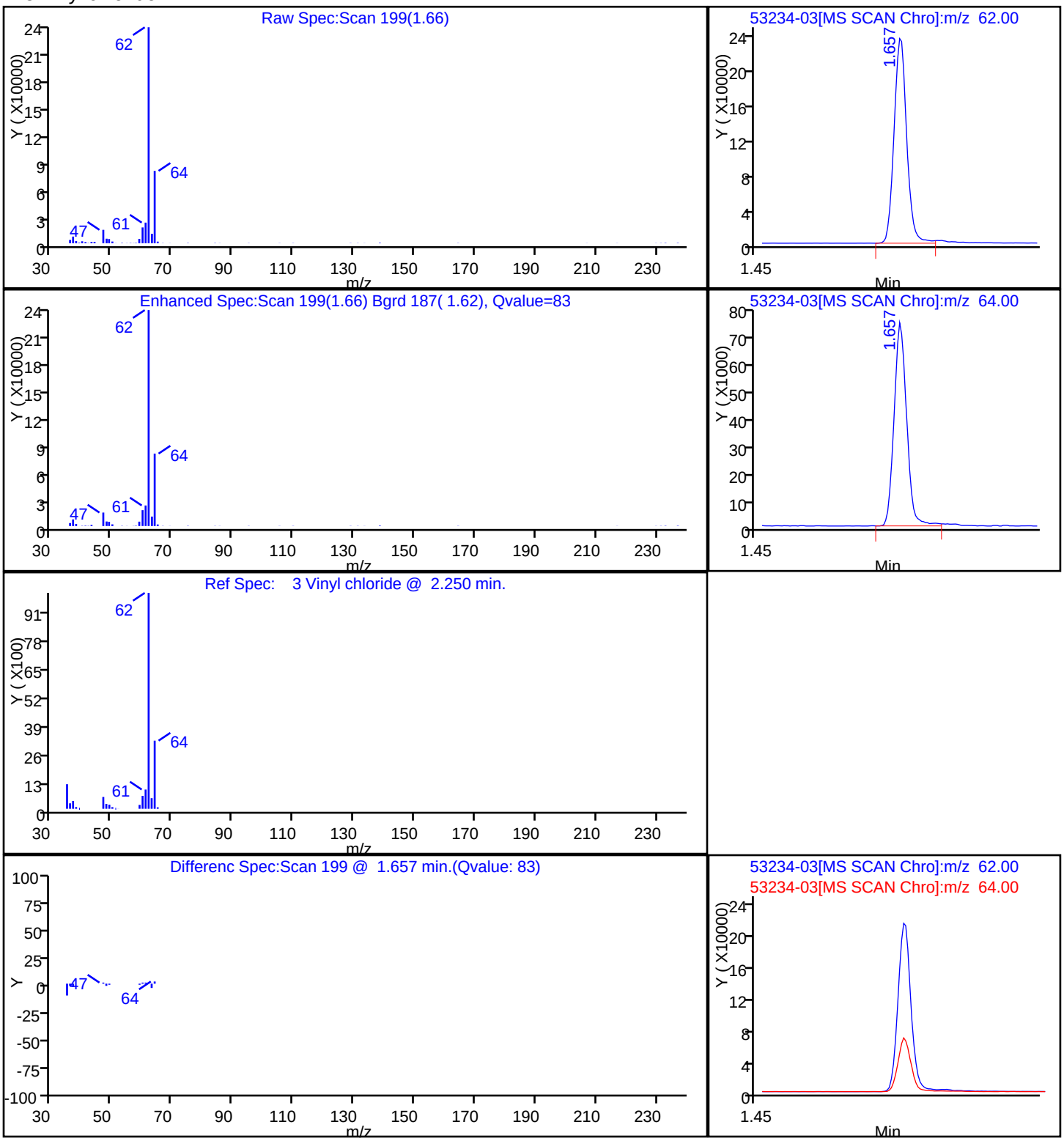


Report Date: 19-Dec-2012 11:14:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03.D		
Injection Date:	19-Dec-2012 07:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	15
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

3 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: OLD-MW-4 DL | Lab Sample ID: 500-53234-3 DL

Matrix: Water | Lab File ID: 53234-03A.D

Analysis Method: 8260B | Date Collected: 12/12/2012 11:44

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 08:01

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	680		10	1.2
79-01-6	Trichloroethene	300		5.0	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-125
2037-26-5	Toluene-d8 (Surr)	97		75-120
460-00-4	4-Bromofluorobenzene (Surr)	91		75-120
1868-53-7	Dibromofluoromethane	101		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03A.D		
Lims ID:	500-53234-F-3	Client ID:	OLD-MW-4
Inject. Date:	19-Dec-2012 08:01:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	500-53234-F-3		
Misc. Info.:	500-0014440-016		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	44
Lims Batch ID:	173302	Lims Sample ID:	16
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 10:55:20	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

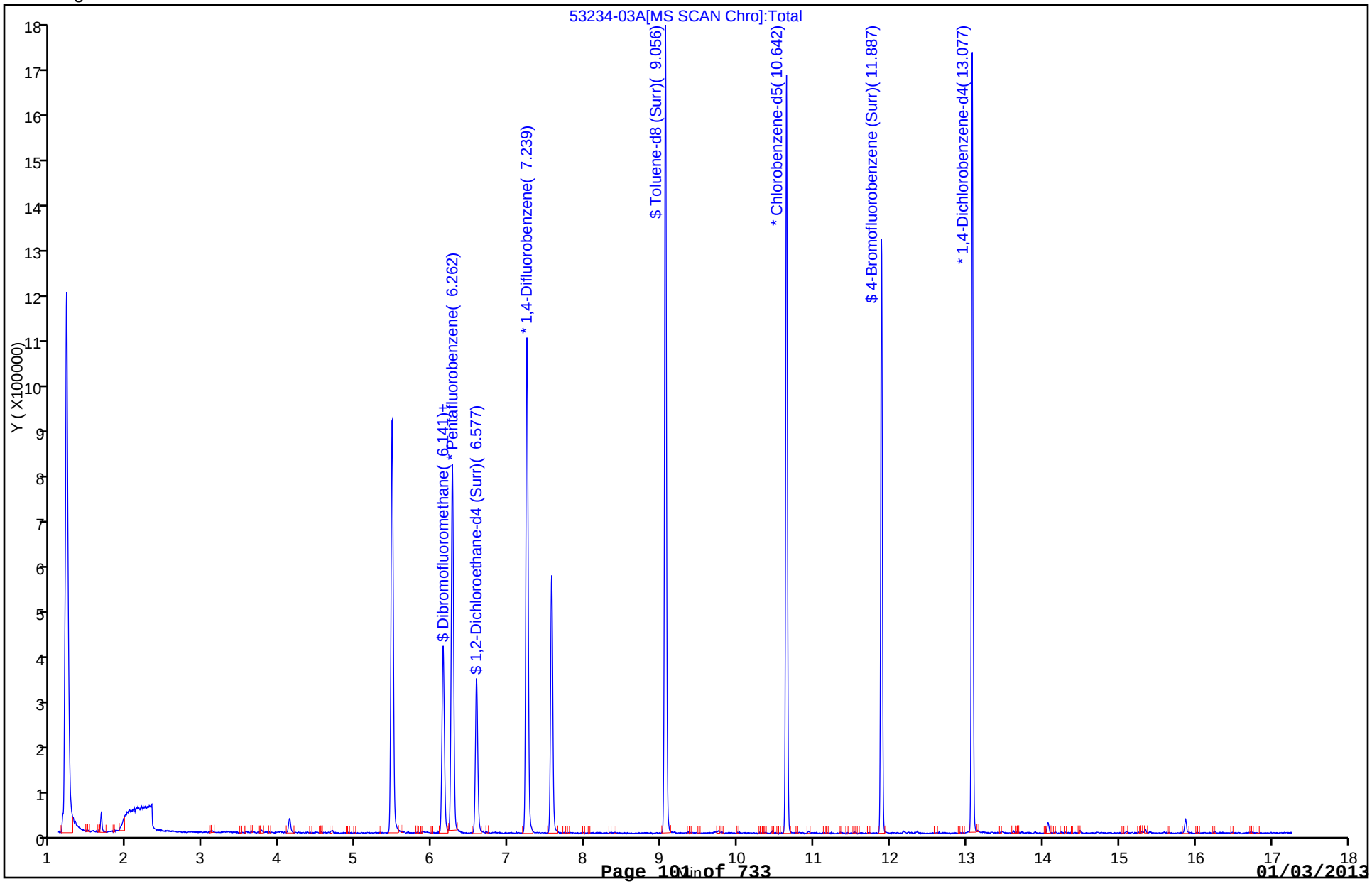
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:55:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
29 cis-1,2-Dichloroethene	96	5.470	5.470	0.0	88	394564	68.1	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	58	255982	50.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	91	636446	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	251053	48.1	
* 49 1,4-Difluorobenzene	114	7.239	7.238	0.0	96	935002	50.0	
50 Trichloroethene	130	7.565	7.565	0.0	90	194824	30.2	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	95	1078041	48.7	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	797062	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	361711	45.3	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	411805	50.0	

Report Date: 19-Dec-2012 10:55:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03A.D		
Injection Date:	19-Dec-2012 08:01:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	16
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

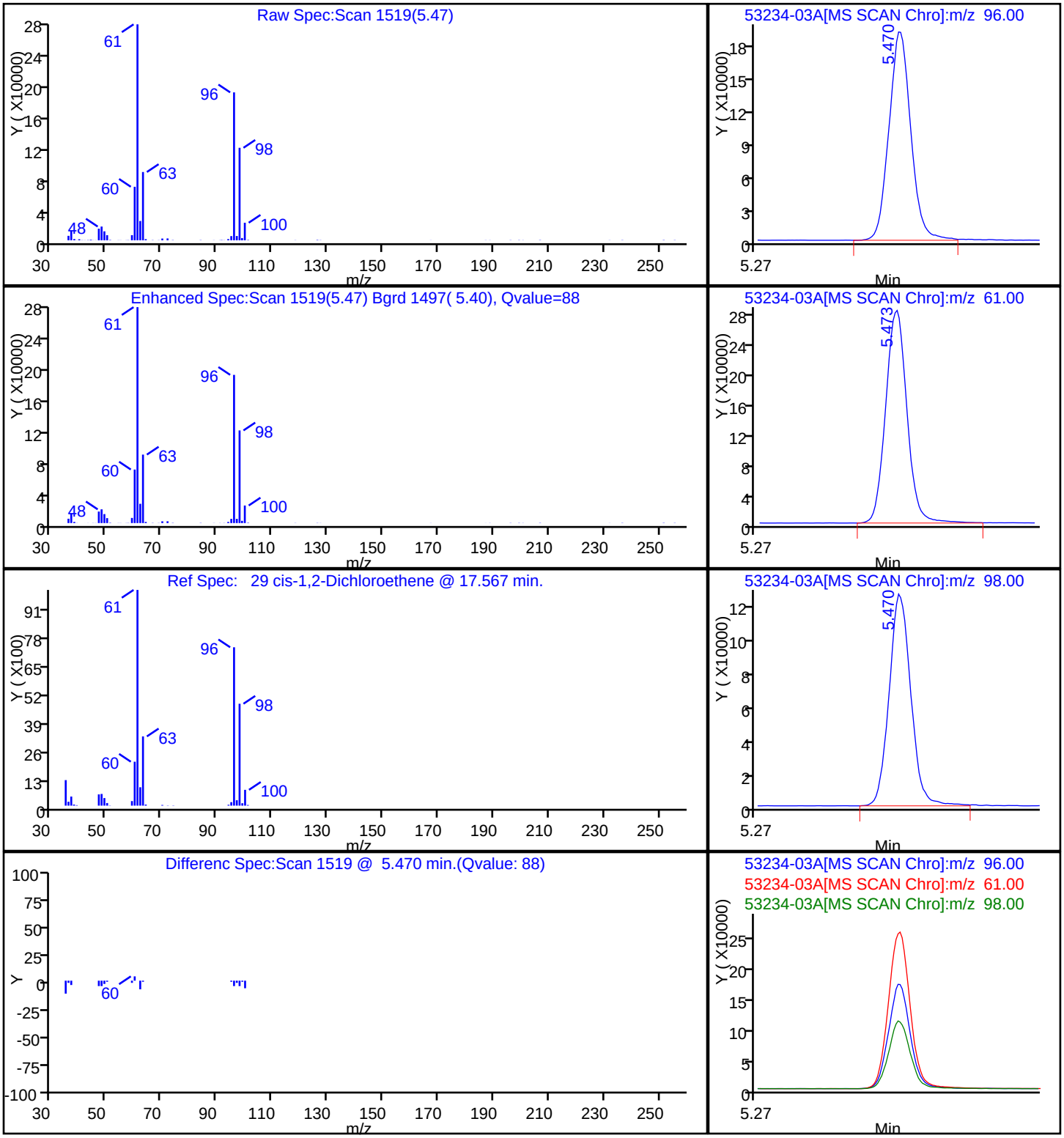


Report Date: 19-Dec-2012 10:55:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03A.D		
Injection Date:	19-Dec-2012 08:01:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	16
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene

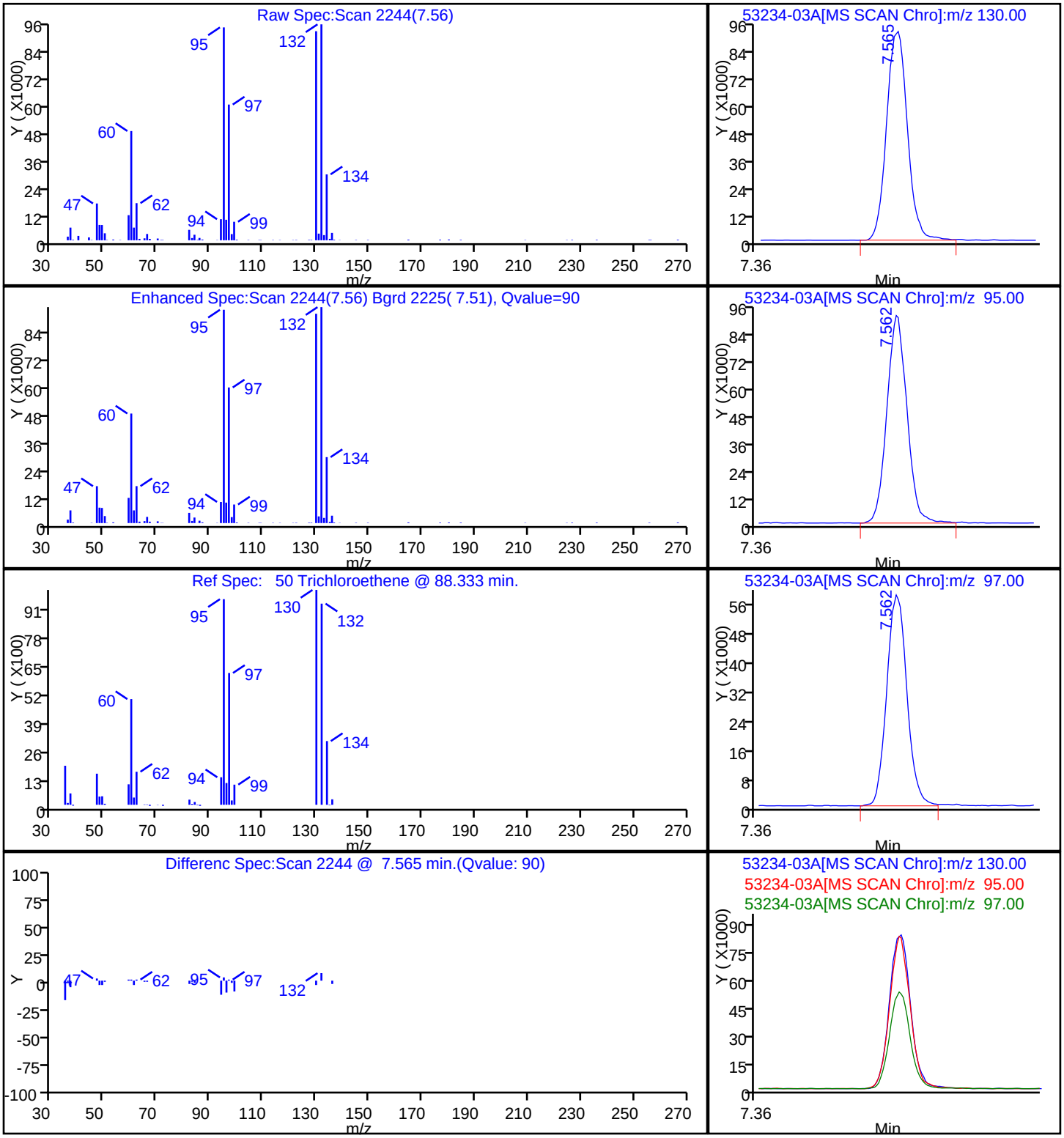


Report Date: 19-Dec-2012 10:55:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-03A.D		
Injection Date:	19-Dec-2012 08:01:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-4	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	16
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: OLD-MW-9 | Lab Sample ID: 500-53234-4

Matrix: Water | Lab File ID: 53234-04.D

Analysis Method: 8260B | Date Collected: 12/12/2012 14:29

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 06:17

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	6.0		0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-125
2037-26-5	Toluene-d8 (Surr)	101		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	101		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-04.D		
Lims ID:	500-53234-F-4	Client ID:	OLD-MW-9
Inject. Date:	19-Dec-2012 06:17:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53234-F-4		
Misc. Info.:	500-0014440-012		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	40
Lims Batch ID:	173302	Lims Sample ID:	12
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 10:49:14	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

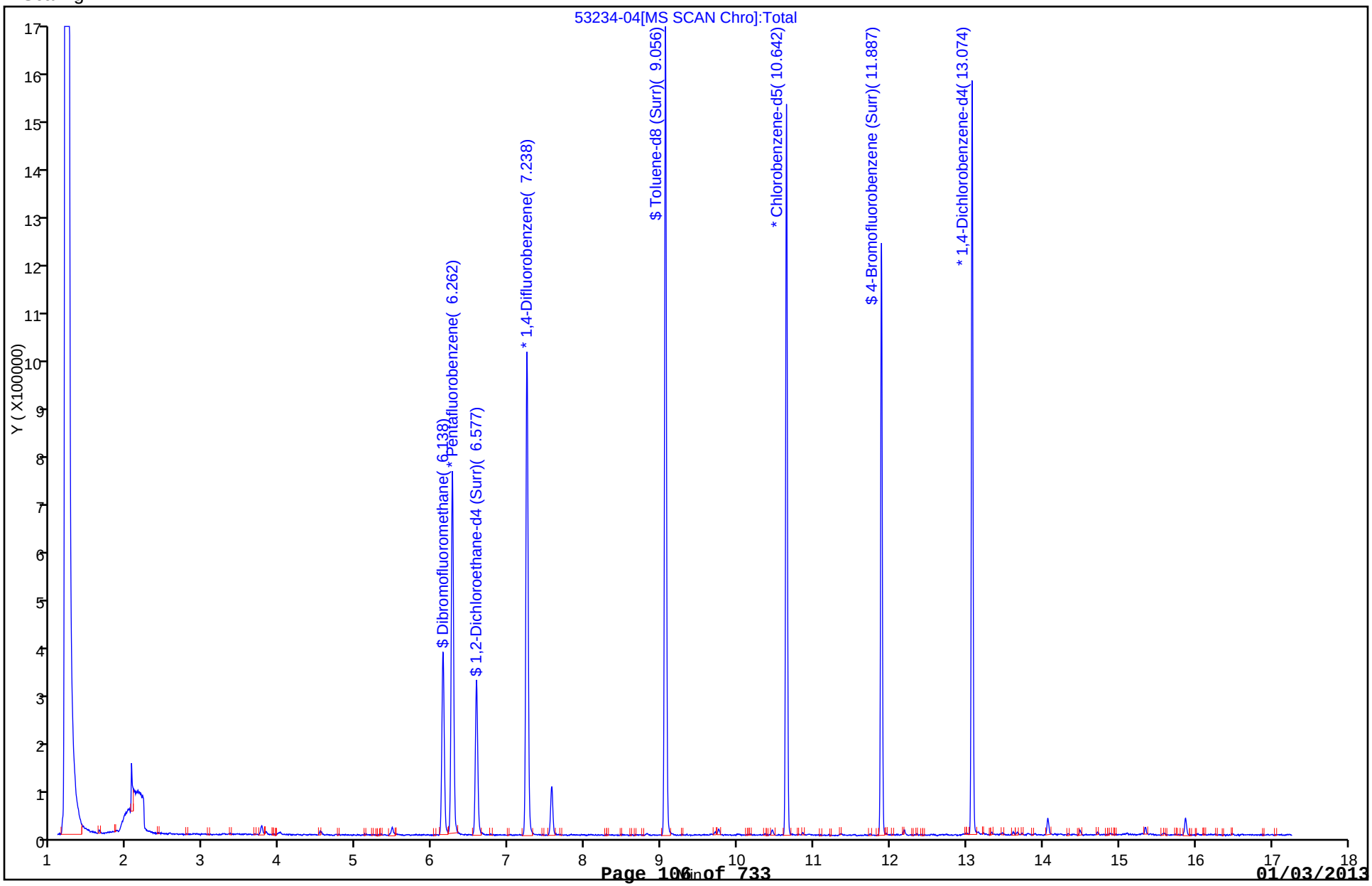
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:49:44

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	69	247769	50.6	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	614014	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	243883	49.2	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	96	886466	50.0	
50 Trichloroethene	130	7.562	7.565	-0.003	88	36636	5.99	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	95	1056444	50.3	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	744227	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	344333	46.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	381332	50.0	

Report Date: 19-Dec-2012 10:49:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-04.D		
Injection Date:	19-Dec-2012 06:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	OLD-MW-9	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	12
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



Report Date: 19-Dec-2012 10:49:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File: \\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-04.D

Injection Date: 19-Dec-2012 06:17:30 Limit Group: MSVOA_8260_ICAL_WATER

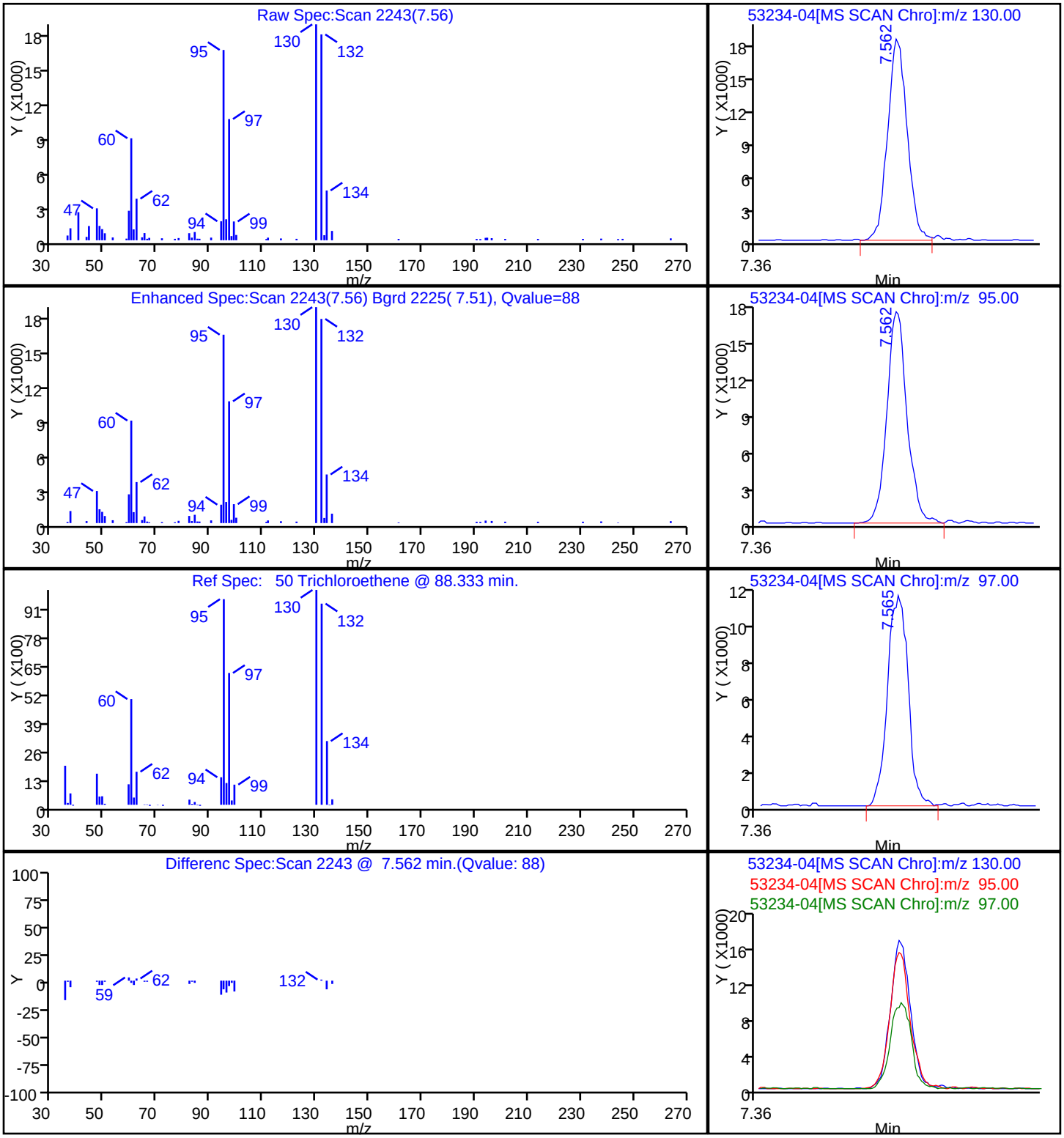
Client ID: OLD-MW-9 Instrument ID: CMS22

Lims Batch ID: 173302 Lims Sample ID: 12

Operator ID: EA Purge Vol: 5.000 mL

Column Type: Column Dia:

50 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53234-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 500-53234-5

Matrix: Water | Lab File ID: 53234-05.D

Analysis Method: 8260B | Date Collected: 12/12/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/19/2012 05:25

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 173302 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-125
2037-26-5	Toluene-d8 (Surr)	98		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	101		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-05.D		
Lims ID:	500-53234-F-5	Client ID:	TRIP BLANK
Inject. Date:	19-Dec-2012 05:25:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53234-F-5		
Misc. Info.:	500-0014440-010		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	38
Lims Batch ID:	173302	Lims Sample ID:	10
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 10:46:55	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

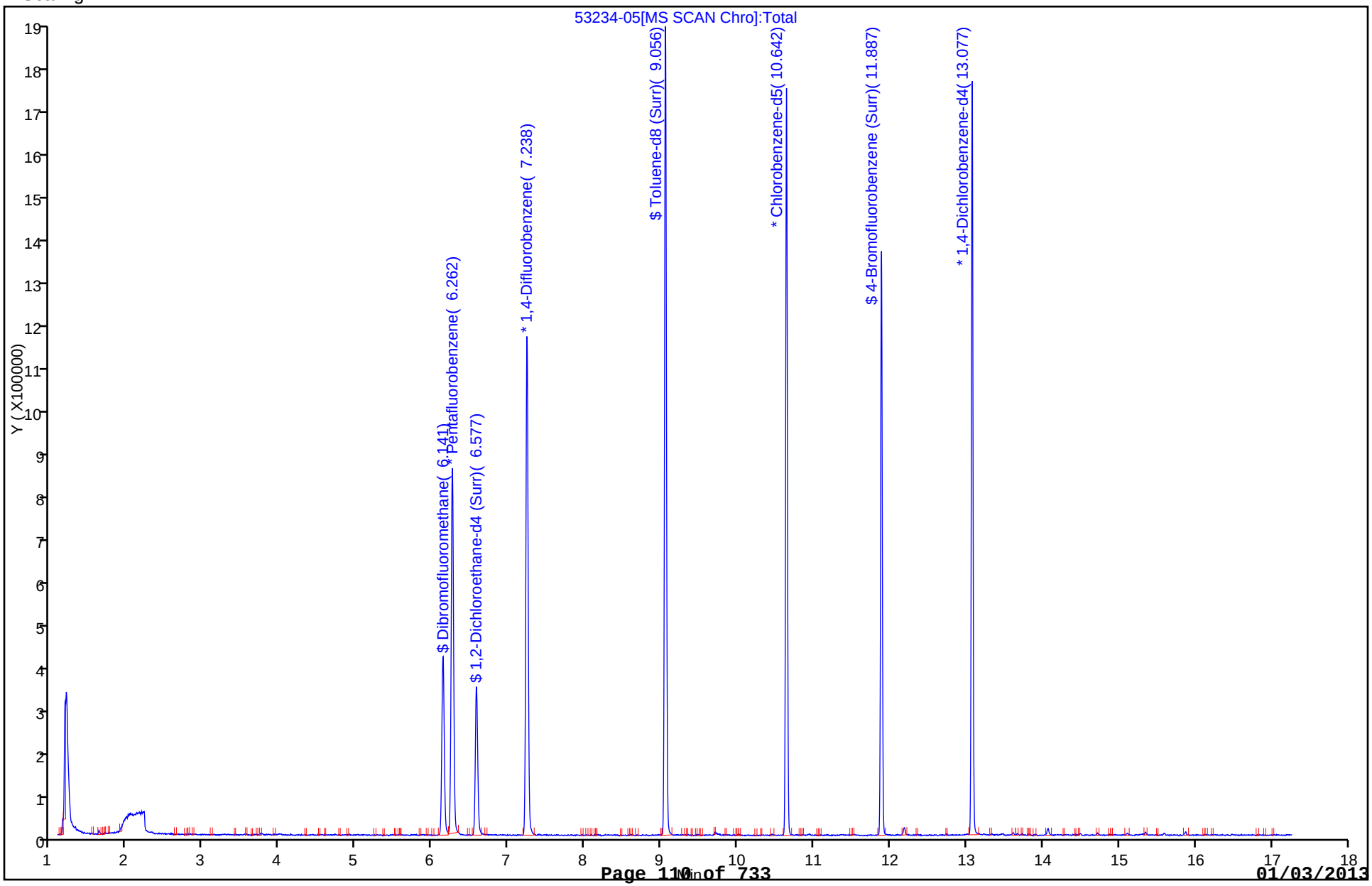
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:47:34

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	58	282161	50.3	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	93	703664	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	268235	46.4	
* 49 1,4-Difluorobenzene	114	7.241	7.238	0.003	95	1034587	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	95	1205801	49.2	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	863429	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	398740	46.1	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	94	433388	50.0	

Report Date: 19-Dec-2012 10:47:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\53234-05.D		
Injection Date:	19-Dec-2012 05:25:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	TRIP BLANK	Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	10
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-172615/2	22I1211A.D
Level 2	STD02 500-172615/3	22I1211B.D
Level 3	STD03 500-172615/4	22I1211C.D
Level 4	STD04 500-172615/5	22I1211D.D
Level 5	STD05 500-172615/6	22I1211E.D
Level 6	STD06 500-172615/7	22I1211F.D
Level 7	STD07 500-172615/8	22I1211G.D
Level 8	STD08 500-172615/9	22I1211H.D
Level 9	STD09 500-172615/10	22I1211I.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		B	M1	M2								
Dichlorodifluoromethane	0.5798	0.6445 0.5632	0.5310 0.5150	0.4776 0.5364	0.4883	Ave		0.5420			0.0100	9.9		15.0			
Chloromethane	0.7182	0.8256 0.7230	0.7243 0.6810	0.6267 0.7012	0.6890	Ave		0.7111			0.1000	7.9		15.0			
Vinyl chloride	0.6665 0.6517	0.7420 0.6618	0.6103 0.6041	0.5612 0.6323	0.6130	Ave		0.6381			0.0100	8.0		15.0			
Bromomethane	0.2077	0.1659 0.2258	0.2203 0.2110	0.1716 0.2234	0.1726	Ave		0.1998			0.0100	13.0		15.0			
Chloroethane	0.3369	0.4113 0.3333	0.3289 0.3044	0.3175 0.3069	0.3315	Ave		0.3338			0.0100	10.0		15.0			
Dichlorofluoromethane	0.9817	1.1276 1.0066	1.0357 0.9437	0.9343 0.9571	1.0079	Ave		0.9993			0.0100	6.3		15.0			
Acetone	0.0614	+++++ 0.0672	+++++ 0.0690	0.0554 0.0671	0.0635	Ave		0.0639			0.0100	7.8		15.0			
Trichlorofluoromethane	0.8320	0.9712 0.8249	0.8348 0.7635	0.7738 0.7796	0.8319	Ave		0.8265			0.0100	7.9		15.0			
Acrolein	0.0392	0.0331 0.0429	0.0421 0.0450	0.0314 0.0450	0.0388	Ave		0.0397			0.0010	13.0		15.0			
1,1-Dichloroethene	0.3938	0.4212 0.3925	0.4280 0.3935	0.3669 0.4040	0.4008	Ave		0.4001			0.0100	4.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4739	0.5610 0.4784	0.4940 0.4696	0.4511 0.4829	0.4785	Ave		0.4862			0.0100	6.7		15.0			
Methylene Chloride	0.3719	+++++ 0.3777	0.4011 0.3682	0.3629 0.3859	0.4004	Ave		0.3812			0.0100	4.0		15.0			
Carbon disulfide	1.5313	1.5962 1.5882	1.3713 1.4767	1.3219 1.4979	1.4559	Ave		1.4799			0.0100	6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Acetonitrile	0.0262	0.0371 0.0281	0.0333 0.0299	0.0243 0.0295	0.0295	Ave		0.0297			0.0010	13.0		15.0			
Acrylonitrile	0.0764	0.0750 0.0821	0.0912 0.0846	0.0677 0.0849	0.0823	Ave		0.0805			0.0010	9.0		15.0			
trans-1,2-Dichloroethene	0.4456	0.4780 0.4511	0.4617 0.4430	0.4088 0.4552	0.4560	Ave		0.4499			0.0100	4.4		15.0			
2-Butanone (MEK)	0.0908	+++++ 0.0953	+++++ 0.0973	0.0823 0.0970	0.0919	Ave		0.0924			0.0100	6.1		15.0			
Methyl tert-butyl ether	0.7230	0.7977 0.7592	0.6853 0.7369	0.6794 0.7564	0.7577	Ave		0.7369			0.0100	5.4		15.0			
Vinyl acetate	0.6107	+++++ 0.6494	0.6129 0.6338	0.5650 0.6642	0.6423	Ave		0.6255			0.0100	5.2		15.0			
Tetrahydrofuran	0.0583	+++++ 0.0572	+++++ 0.0571	0.0538 0.0595	0.0611	Ave		0.0578			0.0100	4.2		15.0			
1,1-Dichloroethane	0.8749	0.9850 0.8925	0.8255 0.8704	0.8099 0.9084	0.9189	Ave		0.8857			0.1000	6.2		15.0			
2,2-Dichloropropane	0.7243	0.8126 0.7285	0.7184 0.7200	0.6702 0.7474	0.7515	Ave		0.7341			0.0100	5.5		15.0			
cis-1,2-Dichloroethene	0.4508	0.5106 0.4630	0.4202 0.4488	0.4186 0.4652	0.4663	Ave		0.4554			0.0100	6.4		15.0			
Propionitrile	0.0191	0.0230 0.0201	0.0200 0.0217	0.0163 0.0219	0.0205	Ave		0.0203			0.0010	10.0		15.0			
Bromochloromethane	0.1747	0.2191 0.1747	0.1652 0.1737	0.1606 0.1772	0.1825	Ave		0.1785			0.0100	10.0		15.0			
Chloroform	0.7195	0.7988 0.7370	0.7465 0.7200	0.6742 0.7434	0.7604	Ave		0.7375			0.0100	4.9		15.0			
1,1,1-Trichloroethane	0.7317	0.8087 0.7368	0.7248 0.7320	0.6839 0.7583	0.7390	Ave		0.7394			0.0100	4.7		15.0			
Carbon tetrachloride	0.4883	0.4978 0.4750	0.4990 0.4767	0.4486 0.4948	0.4871	Ave		0.4834			0.0100	3.4		15.0			
1,1-Dichloropropene	0.6479	0.7318 0.6478	0.5960 0.6435	0.5898 0.6685	0.6649	Ave		0.6488			0.0100	6.9		15.0			
Benzene	1.2306 1.2277	1.3508 1.2183	1.2179 1.1975	1.1306 1.2355	1.2550	Ave		1.2293			0.0100	4.7		15.0			
1,2-Dichloroethane	0.3558	0.3835 0.3552	0.3413 0.3521	0.3151 0.3644	0.3618	Ave		0.3536			0.0100	5.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.1535	+++++ 0.1552	+++++ 0.1604	0.1384 0.1580	0.1561	Ave		0.1536			0.0100	5.1		15.0			
2-Hexanone	0.1220	+++++ 0.1257	+++++ 0.1256	0.1035 0.1271	0.1187	Ave		0.1204			0.0100	7.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Trichloroethene	0.3583 0.3434	0.3824 0.3325	0.3356 0.3291	0.3315 0.3406	0.3516	Ave		0.3450			0.0100	4.9		15.0			
1,2-Dichloropropane	0.3130	0.3550 0.3110	0.3030 0.3089	0.2849 0.3197	0.3264	Ave		0.3152			0.0100	6.4		15.0			
Dibromomethane	0.1238	0.1457 0.1238	0.1306 0.1224	0.1153 0.1261	0.1288	Ave		0.1271			0.0100	6.9		15.0			
Bromodichloromethane	0.3533	0.3875 0.3599	0.3507 0.3552	0.3319 0.3686	0.3726	Ave		0.3600			0.0100	4.6		15.0			
2-Chloroethyl vinyl ether	0.1015	0.1052 0.1078	0.1095 0.1021	0.1020 0.1054	0.1096	Ave		0.1054			0.0100	3.2		15.0			
cis-1,3-Dichloropropene	0.4033	0.4257 0.4109	0.4102 0.4067	0.3731 0.4210	0.4222	Ave		0.4091			0.0100	4.1		15.0			
Toluene	0.9341 0.8023	0.8388 0.8060	0.7909 0.7995	0.7458 0.8258	0.8161	Ave		0.8177			0.0100	6.2		15.0			
trans-1,3-Dichloropropene	0.3304	0.3943 0.3383	0.3221 0.3448	0.2903 0.3521	0.3412	Ave		0.3392			0.0100	8.6		15.0			
1,1,2-Trichloroethane	0.1638	0.2014 0.1667	0.1786 0.1692	0.1581 0.1728	0.1681	Ave		0.1723			0.0100	7.7		15.0			
Tetrachloroethene	0.4446	0.5511 0.4384	0.4482 0.4251	0.4255 0.4400	0.4568	Ave		0.4537			0.0100	9.0		15.0			
1,3-Dichloropropane	0.3407	0.3703 0.3413	0.3719 0.3399	0.3207 0.3540	0.3542	Ave		0.3491			0.0100	4.9		15.0			
Dibromochloromethane	0.2630	0.2702 0.2690	0.2371 0.2675	0.2274 0.2786	0.2693	Ave		0.2603			0.0100	6.9		15.0			
1,2-Dibromoethane	0.1572	0.2035 0.1634	0.1624 0.1626	0.1445 0.1665	0.1607	Ave		0.1651			0.0100	10.0		15.0			
Chlorobenzene	0.9949	1.1305 0.9884	1.0221 0.9670	0.9605 0.9960	1.0363	Ave		1.0120			0.3000	5.3		15.0			
1-Chlorohexane	0.6765	0.7176 0.6760	0.7070 0.6835	0.6491 0.6837	0.6984	Ave		0.6865			0.0100	3.1		15.0			
1,1,1,2-Tetrachloroethane	0.3425	0.3425 0.3461	0.3396 0.3458	0.3001 0.3585	0.3448	Ave		0.3400			0.0100	5.0		15.0			
Ethylbenzene	0.5881 0.5801	0.6023 0.5769	0.5743 0.5619	0.5326 0.5822	0.5796	Ave		0.5753			0.0100	3.4		15.0			
m&p-Xylene	1.4425 1.4534	1.5227 1.4554	1.3904 1.3960	1.3052 1.3942	1.4876	Ave		1.4275			0.0100	4.5		15.0			
o-Xylene	1.4661 1.4493	1.5830 1.4706	1.3934 1.4590	1.2932 1.5151	1.4780	Ave		1.4564			0.0100	5.5		15.0			
Styrene	1.1318	1.1505 1.1478	1.0719 1.1460	0.9871 1.1845	1.1405	Ave		1.1200			0.0100	5.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Bromoform	0.1546	0.1602 0.1600	0.1366 0.1660	0.1243 0.1720	0.1553	Ave		0.1536			0.1000	10.0		15.0			
Isopropylbenzene	3.1927	3.8233 3.1639	3.3535 3.1360	3.0653 3.2790	3.4816	Ave		3.3119			0.0100	7.4		15.0			
Bromobenzene	0.6922	0.8632 0.7028	0.7552 0.6972	0.6812 0.7345	0.7730	Ave		0.7374			0.0100	8.2		15.0			
1,1,2,2-Tetrachloroethane	0.3542	0.3977 0.3640	0.4200 0.3676	0.3757 0.3874	0.4089	Ave		0.3844			0.3000	6.0		15.0			
1,2,3-Trichloropropane	0.2704	0.2771 0.2691	0.3098 0.2728	0.2652 0.2923	0.3046	Ave		0.2827			0.0100	6.1		15.0			
N-Propylbenzene	3.8858	4.4856 3.8875	4.0360 3.7881	3.6439 3.8936	4.1493	Ave		3.9712			0.0100	6.5		15.0			
4-Chlorotoluene	2.1662	2.5653 2.2029	2.2332 2.1653	2.0176 2.2760	2.3065	Ave		2.2416			0.0100	7.0		15.0			
1,3,5-Trimethylbenzene	2.6929	3.0323 2.7638	2.6976 2.7107	2.4978 2.8237	2.9026	Ave		2.7652			0.0100	5.8		15.0			
2-Chlorotoluene	2.5627	3.0140 2.6413	2.6145 2.6089	2.4222 2.7193	2.7174	Ave		2.6625			0.0100	6.4		15.0			
tert-Butylbenzene	2.4553	2.9534 2.4418	2.5783 2.4420	2.3626 2.5773	2.6552	Ave		2.5582			0.0100	7.3		15.0			
1,2,4-Trimethylbenzene	2.6381	2.9651 2.7234	2.7353 2.6840	2.3710 2.8189	2.7710	Ave		2.7134			0.0100	6.3		15.0			
sec-Butylbenzene	3.6796	4.2594 3.6591	3.7758 3.6577	3.5493 3.7738	3.9075	Ave		3.7828			0.0100	5.8		15.0			
1,3-Dichlorobenzene	1.4814	1.8548 1.5187	1.6516 1.5128	1.4214 1.5667	1.5907	Ave		1.5748			0.0100	8.4		15.0			
p-Isopropyltoluene	3.1719	3.7168 3.2121	3.3643 3.1807	2.9943 3.2836	3.3705	Ave		3.2868			0.0100	6.4		15.0			
1,4-Dichlorobenzene	1.4798	1.7715 1.5043	1.6564 1.4758	1.4603 1.5340	1.5651	Ave		1.5559			0.0100	6.9		15.0			
1,2-Dichlorobenzene	1.2786	1.4806 1.2876	1.3414 1.2674	1.2093 1.3183	1.4033	Ave		1.3233			0.0100	6.4		15.0			
n-Butylbenzene	2.8772	3.1126 2.9149	2.8700 2.9548	2.6461 3.0267	2.9480	Ave		2.9188			0.0100	4.7		15.0			
1,2-Dibromo-3-Chloropropane	0.0613	0.0631 0.0622	0.0851 0.0635	0.0599 0.0659	0.0678	Ave		0.0661			0.0100	12.0		15.0			
1,2,4-Trichlorobenzene	0.8675	0.9867 0.9149	0.8758 0.9059	0.8191 0.9063	0.8999	Ave		0.8970			0.0100	5.3		15.0			
Hexachlorobutadiene	0.7318	0.9143 0.6946	0.7960 0.7407	0.7318 0.7100	0.7351	Ave		0.7568			0.0100	9.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Naphthalene	0.9350	1.0319 0.9776	0.9651 1.0179	0.8910 1.0659	1.0003	Ave		0.9856			0.0100	5.7		15.0			
1,2,3-Trichlorobenzene	0.6972	0.7942 0.7092	0.6905 0.7197	0.6629 0.7238	0.7392	Ave		0.7171			0.0100	5.4		15.0			
Dibromofluoromethane	0.3747	0.4105	0.3974	0.4034	0.4088	Ave		0.3990			0.0100	3.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2681	0.2786	0.2783	0.2818	0.2898	Ave		0.2793			0.0100	2.8		15.0			
Toluene-d8 (Surr)	1.1353	1.2008	1.1689	1.1817	1.2317	Ave		1.1837			0.0100	3.0		15.0			
4-Bromofluorobenzene (Surr)	0.4792	0.5117	0.5010	0.5085	0.5022	Ave		0.5005			0.0100	2.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-172615/2	22I1211A.D
Level 2	STD02 500-172615/3	22I1211B.D
Level 3	STD03 500-172615/4	22I1211C.D
Level 4	STD04 500-172615/5	22I1211D.D
Level 5	STD05 500-172615/6	22I1211E.D
Level 6	STD06 500-172615/7	22I1211F.D
Level 7	STD07 500-172615/8	22I1211G.D
Level 8	STD08 500-172615/9	22I1211H.D
Level 9	STD09 500-172615/10	22I1211I.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	PFB	Ave	408706	8283 762307	14019 1110898	34084 1572519	128973	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloromethane	PFB	Ave	506217	10611 978702	19121 1468998	44725 2055922	181982	50.0	1.00 100	2.00 150	5.00 200	20.0
Vinyl chloride	PFB	Ave	2072 459341	9537 895799	16111 1302949	40052 1853836	161885	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
Bromomethane	PFB	Ave	146376	2132 305638	5817 455210	12250 654905	45578	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloroethane	PFB	Ave	237436	5286 451232	8684 656528	22657 899737	87550	50.0	1.00 100	2.00 150	5.00 200	20.0
Dichlorofluoromethane	PFB	Ave	691989	14493 1362610	27342 2035639	66676 2806119	266205	50.0	1.00 100	2.00 150	5.00 200	20.0
Acetone	PFB	Ave	43292	+++++ 90934	+++++ 148822	3957 196769	16764	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Trichlorofluoromethane	PFB	Ave	586466	12483 1116585	22039 1646914	55227 2285626	219705	50.0	1.00 100	2.00 150	5.00 200	20.0
Acrolein	PFB	Ave	1104663	16997 2325112	44508 3885554	89671 5276134	410157	2000	40.0 4000	80.0 6000	200 8000	800
1,1-Dichloroethene	PFB	Ave	277562	5414 531364	11300 848798	26186 1184587	105858	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	PFB	Ave	334028	7210 647515	13042 1013020	32193 1415755	126370	50.0	1.00 100	2.00 150	5.00 200	20.0
Methylene Chloride	PFB	Ave	262156	+++++ 511318	10588 794285	25901 1131397	105736	50.0	+++++ 100	2.00 150	5.00 200	20.0
Carbon disulfide	PFB	Ave	1079379	20516 2149891	36202 3185269	94343 4391617	384523	50.0	1.00 100	2.00 150	5.00 200	20.0
Acetonitrile	PFB	Ave	147511	3815 304606	7023 515971	13902 692080	62328	400	8.00 800	16.0 1200	40.0 1600	160

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acrylonitrile	PFB	Ave	430688	7715 889127	19252 1460725	38635 1990459	173831	400	8.00 800	16.0 1200	40.0 1600	160
trans-1,2-Dichloroethene	PFB	Ave	314119	6143 610637	12190 955652	29175 1334459	120435	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Butanone (MEK)	PFB	Ave	64002	+++++ 128968	+++++ 209900	5877 284336	24272	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Methyl tert-butyl ether	PFB	Ave	509651	10253 1027632	18092 1589481	48485 2217547	200118	50.0	1.00 100	2.00 150	5.00 200	20.0
Vinyl acetate	PFB	Ave	430488	+++++ 879019	16181 1367143	40320 1947324	169641	50.0	+++++ 100	2.00 150	5.00 200	20.0
Tetrahydrofuran	PFB	Ave	41123	+++++ 77379	+++++ 123251	3843 174315	16127	50.0	+++++ 100	+++++ 150	5.00 200	20.0
1,1-Dichloroethane	PFB	Ave	616675	12660 1208102	21793 1877461	57801 2663163	242674	50.0	1.00 100	2.00 150	5.00 200	20.0
2,2-Dichloropropane	PFB	Ave	510518	10444 986077	18966 1552961	47829 2191135	198464	50.0	1.00 100	2.00 150	5.00 200	20.0
cis-1,2-Dichloroethene	PFB	Ave	317732	6562 626799	11093 968176	29875 1363967	123154	50.0	1.00 100	2.00 150	5.00 200	20.0
Propionitrile	DFB	Ave	150541	3274 311165	5826 533857	13049 726579	61580	400	8.00 800	16.0 1200	40.0 1600	160
Bromochloromethane	PFB	Ave	123109	2816 236461	4362 374570	11462 519660	48207	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloroform	PFB	Ave	507134	10267 997634	19708 1553050	48119 2179601	200834	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,1-Trichloroethane	PFB	Ave	515733	10394 997347	19135 1578989	48811 2223267	195166	50.0	1.00 100	2.00 150	5.00 200	20.0
Carbon tetrachloride	DFB	Ave	481514	8845 918644	18161 1463204	44839 2051034	182447	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1-Dichloropropene	PFB	Ave	456667	9406 876844	15734 1388026	42090 1960009	175593	50.0	1.00 100	2.00 150	5.00 200	20.0
Benzene	DFB	Ave	5292 1210657	24000 2356179	44324 3675431	113004 5120985	470128	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichloroethane	DFB	Ave	350802	6813 686980	12420 1080708	31493 1510261	135519	50.0	1.00 100	2.00 150	5.00 200	20.0
4-Methyl-2-pentanone (MIBK)	DFB	Ave	151375	+++++ 300182	+++++ 492445	13833 654734	58466	50.0	+++++ 100	+++++ 150	5.00 200	20.0
2-Hexanone	CBZ	Ave	101953	+++++ 206593	+++++ 337483	8872 453433	37503	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Trichloroethene	DFB	Ave	1541 338598	6794 643029	12213 1009984	33134 1411923	131705	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichloropropane	DFB	Ave	308626	6308 601403	11028 948132	28481 1325238	122258	50.0	1.00 100	2.00 150	5.00 200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dibromomethane	DFB	Ave	122106	2589 239384	4753 375807	11529 522887	48251	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromodichloromethane	DFB	Ave	348406	6884 696059	12765 1090230	33178 1527793	139566	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Chloroethyl vinyl ether	DFB	Ave	100134	1869 208398	3984 313500	10192 436785	41067	50.0	1.00 100	2.00 150	5.00 200	20.0
cis-1,3-Dichloropropene	DFB	Ave	397656	7564 794708	14930 1248175	37294 1745247	158135	50.0	1.00 100	2.00 150	5.00 200	20.0
Toluene	DFB	Ave	4017 791155	14904 1558816	28786 2453857	74548 3422834	305710	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
trans-1,3-Dichloropropene	DFB	Ave	325796	7005 654311	11724 1058276	29021 1459268	127802	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,2-Trichloroethane	DFB	Ave	161526	3579 322360	6500 519398	15804 716065	62968	50.0	1.00 100	2.00 150	5.00 200	20.0
Tetrachloroethene	CBZ	Ave	371408	8289 720453	14024 1142505	36478 1570157	144290	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3-Dichloropropane	CBZ	Ave	284612	5569 560890	11637 913572	27497 1263367	111881	50.0	1.00 100	2.00 150	5.00 200	20.0
Dibromochloromethane	CBZ	Ave	219735	4064 442108	7418 718959	19500 994298	85045	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dibromoethane	DFB	Ave	154974	3616 316106	5912 499079	14445 690159	60214	50.0	1.00 100	2.00 150	5.00 200	20.0
Chlorobenzene	CBZ	Ave	831189	17003 1624419	31983 2599260	82345 3554021	327328	50.0	1.00 100	2.00 150	5.00 200	20.0
1-Chlorohexane	PFB	Ave	476816	9223 915102	18665 1474279	46324 2004578	184447	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	286131	5151 568808	10625 929412	25733 1279270	108914	50.0	1.00 100	2.00 150	5.00 200	20.0
Ethylbenzene	CBZ	Ave	2120 484613	9059 948132	17971 1510230	45661 2077566	183060	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
m&p-Xylene	CBZ	Ave	10400 2428374	45804 4783893	87017 7504852	223793 9950024	939704	0.500 100	2.00 200	4.00 300	10.0 400	40.0
o-Xylene	CBZ	Ave	5285 1210753	23810 2416819	43602 3921614	110873 5406441	466833	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
Styrene	CBZ	Ave	945512	17304 1886331	33541 3080454	84628 4226631	360216	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromoform	CBZ	Ave	129169	2410 263003	4275 446109	10660 613724	49043	50.0	1.00 100	2.00 150	5.00 200	20.0
Isopropylbenzene	DCB	Ave	1601454	31324 3109566	57244 5106365	148746 6881199	610310	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromobenzene	DCB	Ave	347188	7072 690763	12892 1135272	33053 1541345	135512	50.0	1.00 100	2.00 150	5.00 200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	177658	3258 357760	7169 598529	18231 812983	71670	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,3-Trichloropropane	DCB	Ave	135614	2270 264488	5288 444171	12868 613409	53399	50.0	1.00 100	2.00 150	5.00 200	20.0
N-Propylbenzene	DCB	Ave	1949080	36750 3820722	68894 6168362	176823 8171167	727359	50.0	1.00 100	2.00 150	5.00 200	20.0
4-Chlorotoluene	DCB	Ave	1086544	21017 2165096	38120 3525867	97903 4776401	404326	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3,5-Trimethylbenzene	DCB	Ave	1350744	24843 2716376	46048 4413867	121204 5925708	508814	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Chlorotoluene	DCB	Ave	1285442	24693 2595965	44629 4248167	117536 5706737	476349	50.0	1.00 100	2.00 150	5.00 200	20.0
tert-Butylbenzene	DCB	Ave	1231564	24197 2399839	44012 3976419	114646 5408653	465442	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,4-Trimethylbenzene	DCB	Ave	1323232	24293 2676625	46692 4370483	115053 5915680	485753	50.0	1.00 100	2.00 150	5.00 200	20.0
sec-Butylbenzene	DCB	Ave	1845685	34897 3596271	64452 5955880	172232 7919600	684971	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3-Dichlorobenzene	DCB	Ave	743079	15196 1492625	28192 2463360	68974 3287950	278836	50.0	1.00 100	2.00 150	5.00 200	20.0
p-Isopropyltoluene	DCB	Ave	1590983	30451 3156888	57429 5179163	145300 6891004	590843	50.0	1.00 100	2.00 150	5.00 200	20.0
1,4-Dichlorobenzene	DCB	Ave	742273	14514 1478508	28274 2403110	70862 3219268	274358	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichlorobenzene	DCB	Ave	641352	12130 1265519	22897 2063725	58683 2766492	245994	50.0	1.00 100	2.00 150	5.00 200	20.0
n-Butylbenzene	DCB	Ave	1443162	25501 2864857	48990 4811328	128404 6351852	516775	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	30736	517 61117	1453 103368	2909 138335	11888	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,4-Trichlorobenzene	DCB	Ave	435120	8084 899145	14950 1475044	39749 1901927	157753	50.0	1.00 100	2.00 150	5.00 200	20.0
Hexachlorobutadiene	DCB	Ave	367053	7491 682660	13587 1206171	35512 1489923	128859	50.0	1.00 100	2.00 150	5.00 200	20.0
Naphthalene	DCB	Ave	469003	8454 960821	16474 1657420	43237 2236810	175344	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,3-Trichlorobenzene	DCB	Ave	349729	6507 697002	11786 1171916	32167 1518870	129572	50.0	1.00 100	2.00 150	5.00 200	20.0
Dibromofluoromethane	PFB	Ave	264099	555702	857139	1182785	107966	50.0	100	150	200	20.0
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	264333	538799	854290	1167924	108560	50.0	100	150	200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53234-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Toluene-d8 (Surr)	DFB	Ave	1119518	2322467	3587473	4898132	461399	50.0	100	150	200	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	400320	840950	1346757	1814509	158632	50.0	100	150	200	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Lims ID:	STD01	Client ID:	
Inject. Date:	11-Dec-2012 14:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD01		
Misc. Info.:	500-0014322-002		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	172615	Lims Sample ID:	2
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:36:48	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:36:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.663	1.657	0.006	48	2072	0.2612	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	621710	50.0	
45 Benzene	78	6.658	6.658	0.0	76	5292	0.2503	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	96	860102	50.0	
50 Trichloroethene	130	7.551	7.562	-0.011	18	1541	0.2597	M
62 Toluene	92	9.131	9.131	0.0	65	4017	0.2856	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	90	720952	50.0	
75 Ethylbenzene	106	10.809	10.809	0.0	78	2120	0.2556	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	10400	0.5053	
77 o-Xylene	91	11.347	11.349	-0.002	79	5285	0.2517	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	391654	50.0	
S 114 Xylenes, Total	100				0		0.7569	

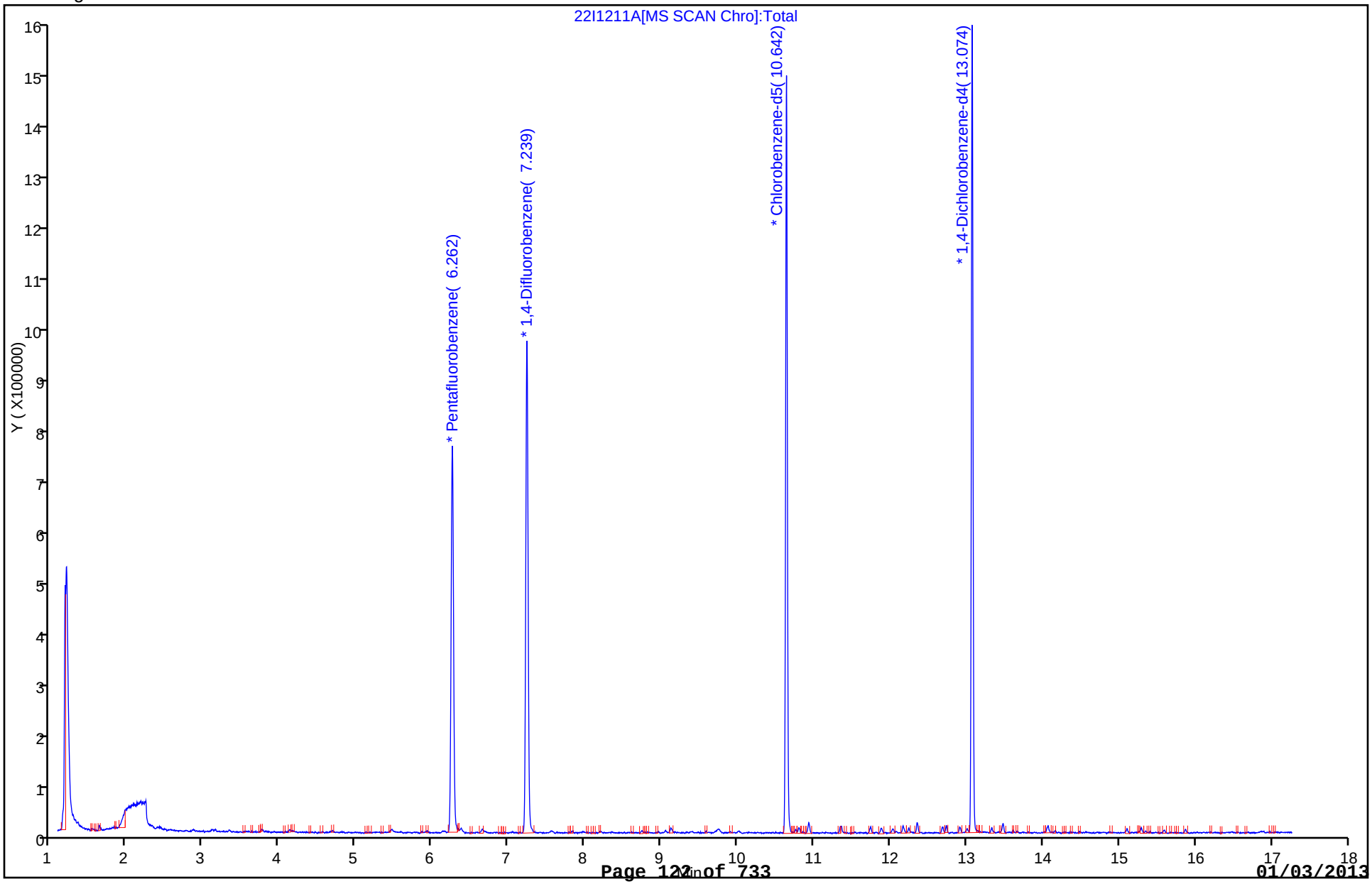
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 12-Dec-2012 11:36:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Injection Date:	11-Dec-2012 14:23:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



Manual Integration/User Assign Peak Report

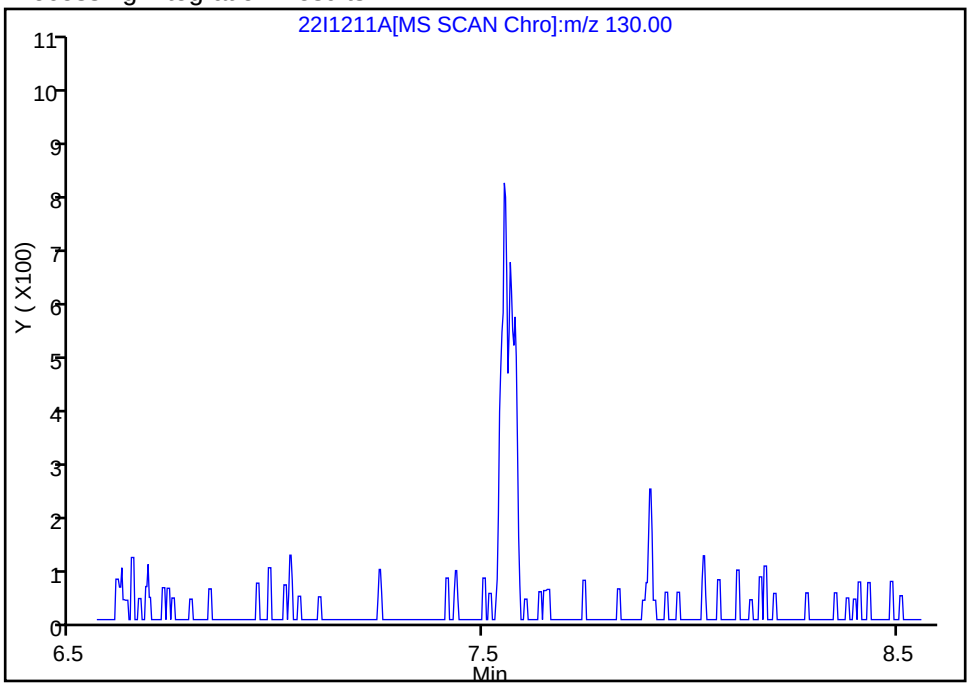
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Injection Date:	11-Dec-2012 14:23:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene, Signal: 1, m/z: 130.0 Type: quant, RT: 7.56

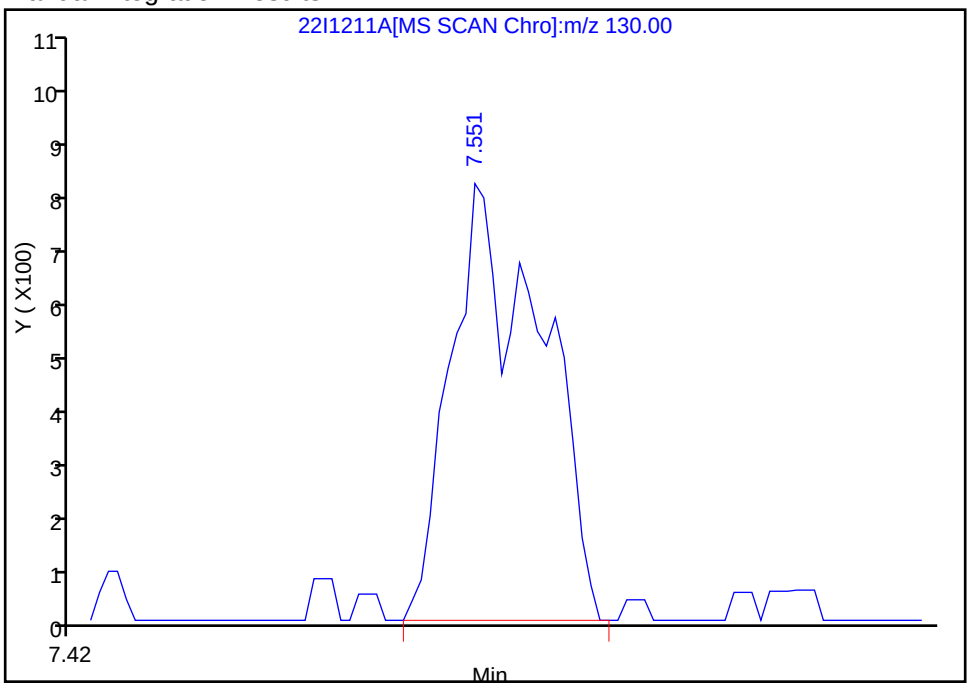
Processing Integration Results

Not Detected
Expected RT: 7.56



Manual Integration Results

RT: 7.55
Response: 1541
Amount: 0.259664



Reviewer: alikpalae, 11-Dec-2012 19:50:01
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Lims ID:	STD02	Client ID:	
Inject. Date:	11-Dec-2012 14:51:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD02		
Misc. Info.:	500-0014322-003		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	172615	Lims Sample ID:	3
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:36:54	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:36:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	81	8283	1.19	
2 Chloromethane	50	1.536	1.536	0.0	97	10611	1.16	
3 Vinyl chloride	62	1.657	1.657	0.0	93	9537	1.16	
5 Bromomethane	94	2.007	2.007	0.0	67	2132	0.8303	M
6 Chloroethane	64	2.125	2.122	0.003	64	5286	1.23	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	83	14493	1.13	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	92	12483	1.18	
10 Acrolein	56	3.009	3.009	0.0	95	16997	33.3	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	80	5414	1.05	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.148	3.157	-0.008	72	7210	1.15	
15 Carbon disulfide	76	3.344	3.341	0.003	87	20516	1.08	
16 Acetonitrile	41	3.593	3.578	0.015	70	3815	9.98	M
20 Acrylonitrile	53	4.101	4.095	0.006	83	7715	7.46	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	84	6143	1.06	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	83	10253	1.08	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	68	12660	1.11	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	71	10444	1.11	
29 cis-1,2-Dichloroethene	96	5.468	5.473	-0.005	77	6562	1.12	
31 Propionitrile	54	5.589	5.580	0.009	87	3274	9.06	
34 Chlorobromomethane	128	5.788	5.783	0.005	75	2816	1.23	
36 Chloroform	83	5.930	5.927	0.003	72	10267	1.08	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	82	10394	1.09	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	93	642634	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	75	8845	1.03	
42 1,1-Dichloropropene	75	6.381	6.383	-0.003	80	9406	1.13	
45 Benzene	78	6.655	6.658	-0.003	92	24000	1.10	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	75	6813	1.08	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 49 1,4-Difluorobenzene	114	7.239	7.239	-0.001	96	888368	50.0	
50 Trichloroethene	130	7.556	7.562	-0.006	72	6794	1.11	
53 1,2-Dichloropropane	63	7.842	7.837	0.005	76	6308	1.13	
54 Dibromomethane	93	7.969	7.975	-0.006	47	2589	1.15	
56 Dichlorobromomethane	83	8.201	8.201	0.0	73	6884	1.08	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	40	1869	1.00	
59 cis-1,3-Dichloropropene	75	8.744	8.747	-0.003	69	7564	1.04	
62 Toluene	92	9.131	9.131	0.0	79	14904	1.03	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	80	7005	1.16	
65 1,1,2-Trichloroethane	97	9.593	9.590	0.003	62	3579	1.17	
66 Tetrachloroethene	166	9.749	9.749	0.0	70	8289	1.21	M
67 1,3-Dichloropropane	76	9.766	9.769	-0.003	89	5569	1.06	
69 Chlorodibromomethane	129	10.012	10.012	0.0	63	4064	1.04	
70 Ethylene Dibromide	107	10.122	10.122	0.0	67	3616	1.23	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	88	752039	50.0	
72 Chlorobenzene	112	10.671	10.673	-0.002	77	17003	1.12	
73 1-Chlorohexane	91	10.679	10.682	-0.003	54	9223	1.05	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	62	5151	1.01	
75 Ethylbenzene	106	10.803	10.809	-0.006	95	9059	1.05	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	45804	2.13	
77 o-Xylene	91	11.347	11.349	-0.002	93	23810	1.09	
78 Styrene	104	11.358	11.361	-0.003	87	17304	1.03	
79 Bromoform	173	11.534	11.534	0.0	68	2410	1.04	
80 Isopropylbenzene	105	11.742	11.742	0.0	93	31324	1.15	
84 Bromobenzene	156	12.034	12.034	0.0	78	7072	1.17	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	52	3258	1.03	
86 1,2,3-Trichloropropane	75	12.075	12.077	-0.002	40	2270	0.9803	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	36750	1.13	
90 4-Chlorotoluene	91	12.245	12.245	0.0	89	21017	1.14	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	85	24843	1.10	
89 2-Chlorotoluene	91	12.355	12.358	-0.003	79	24693	1.13	
92 tert-Butylbenzene	119	12.690	12.690	0.0	85	24197	1.15	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	73	24293	1.09	
95 sec-Butylbenzene	105	12.915	12.915	0.0	91	34897	1.13	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	78	15196	1.18	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	49	30451	1.13	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	409643	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	29	14514	1.14	
100 1,2-Dichlorobenzene	146	13.473	13.476	-0.003	84	12130	1.12	
101 n-Butylbenzene	91	13.484	13.481	0.003	88	25501	1.07	
105 1,2-Dibromo-3-Chloropropane	75	14.264	14.259	0.005	1	517	0.9546	
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	80	8084	1.10	
109 Hexachlorobutadiene	225	15.293	15.296	-0.003	72	7491	1.21	
110 Naphthalene	128	15.351	15.348	0.003	91	8454	1.05	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	75	6507	1.11	
S 113 1,2-Dichloroethene, Total	96				0		2.18	
S 114 Xylenes, Total	100				0		3.22	
S 115 1,3-Dichloropropene, Total	1				0		2.20	
S 116 Trihalomethanes, Total	1				0		4.24	
S 117 Trimethylbenzene, Total	1				0		2.19	

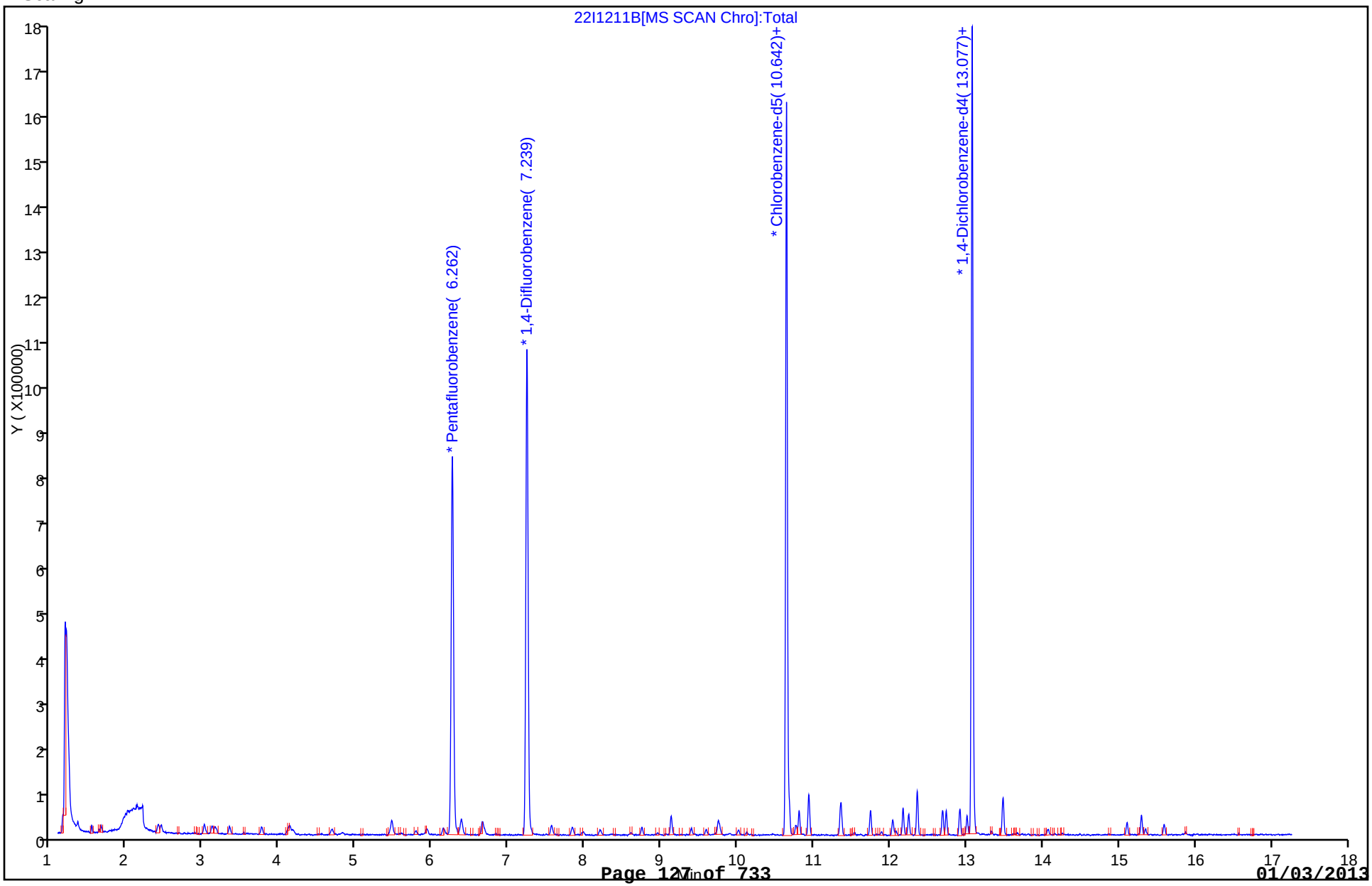
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 12-Dec-2012 11:36:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



Report Date: 12-Dec-2012 11:36:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

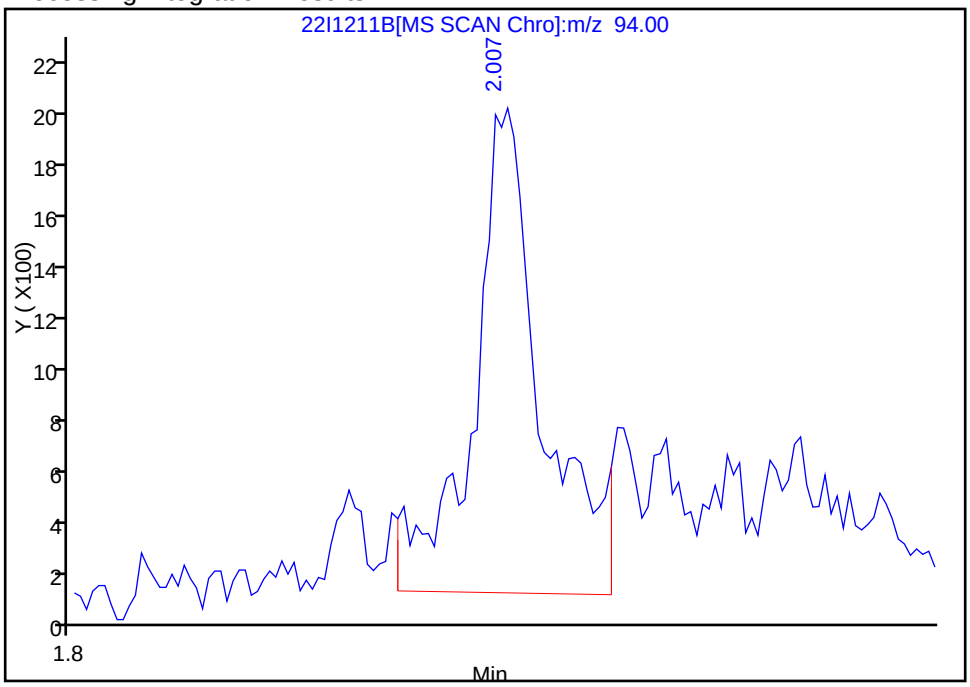
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

5 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 2.01

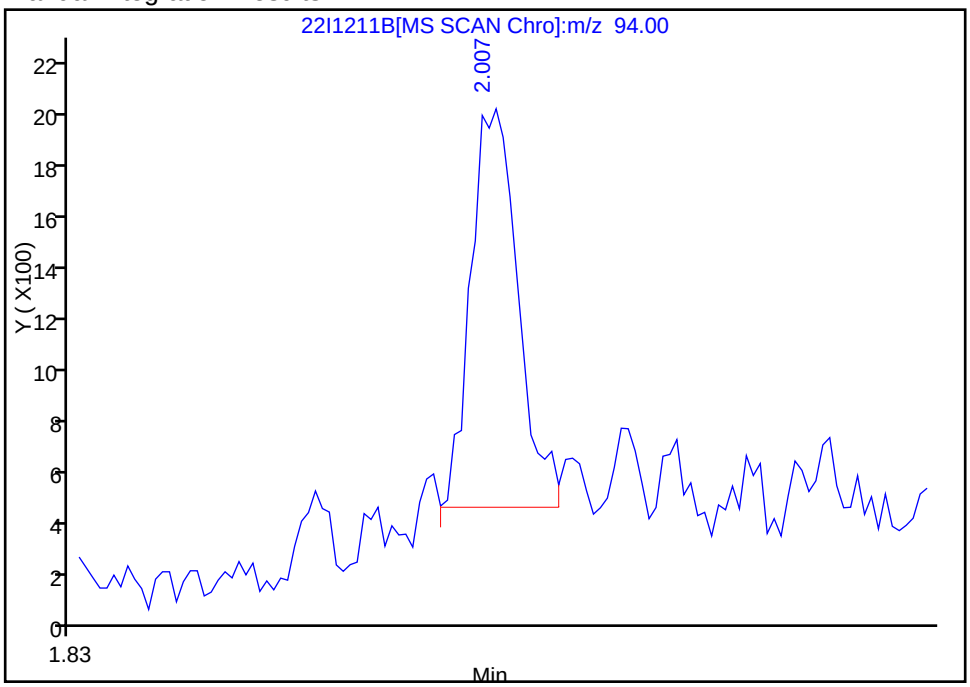
Processing Integration Results

RT: 2.01
Response: 4320
Amount: 1.455596



Manual Integration Results

RT: 2.01
Response: 2132
Amount: 0.830280



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

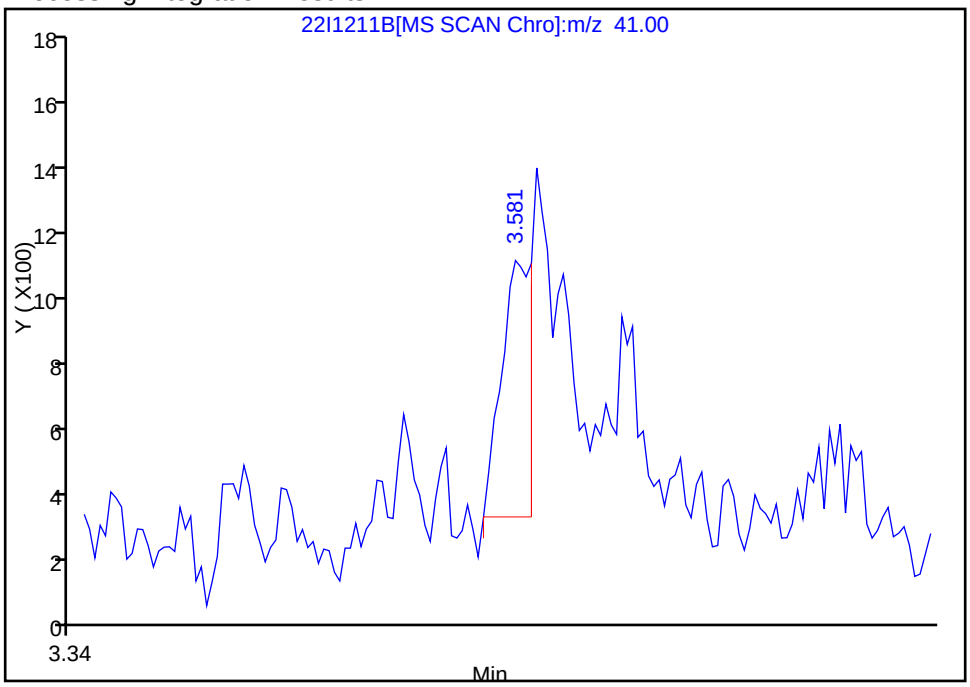
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

16 Acetonitrile, Signal: 1, m/z: 41.0 Type: quant, RT: 3.58

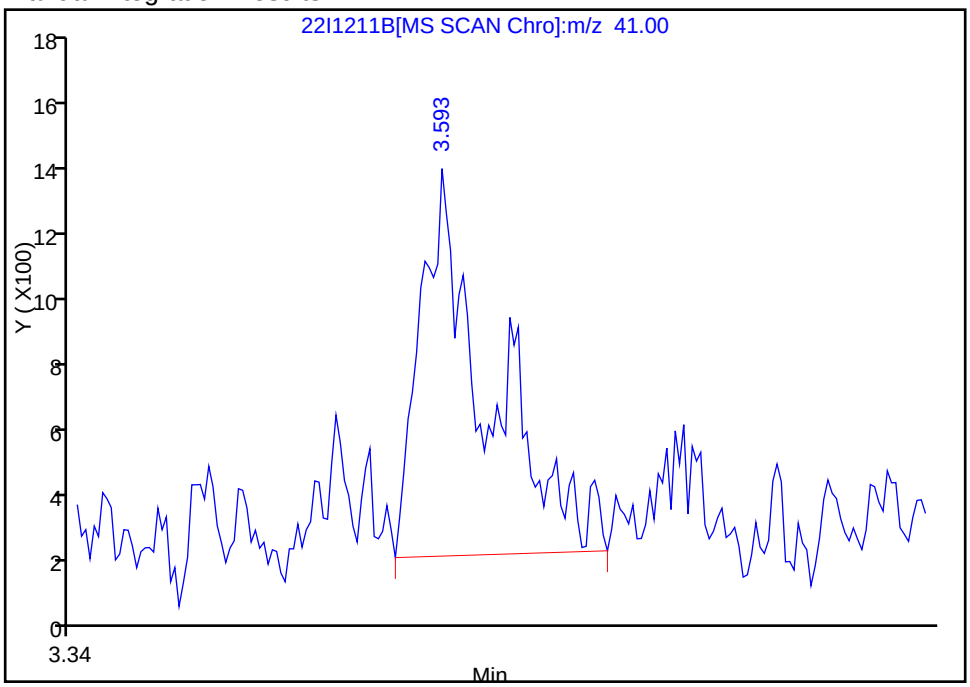
Processing Integration Results

RT: 3.58
Response: 888
Amount: 6.029633



Manual Integration Results

RT: 3.59
Response: 3815
Amount: 9.981547



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

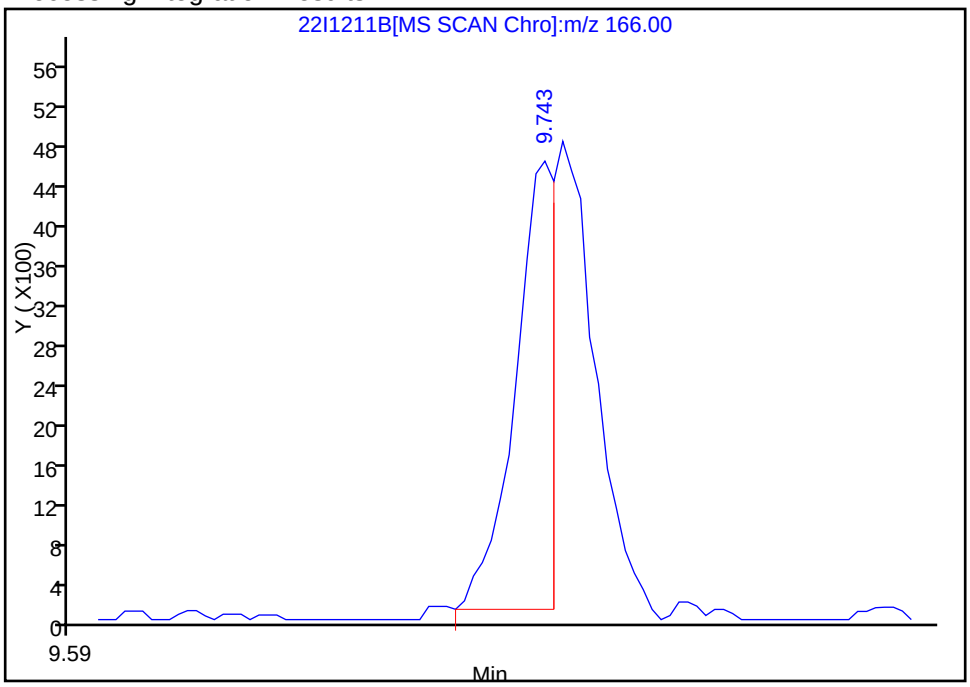
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

66 Tetrachloroethene, Signal: 1, m/z: 166.0 Type: quant, RT: 9.75

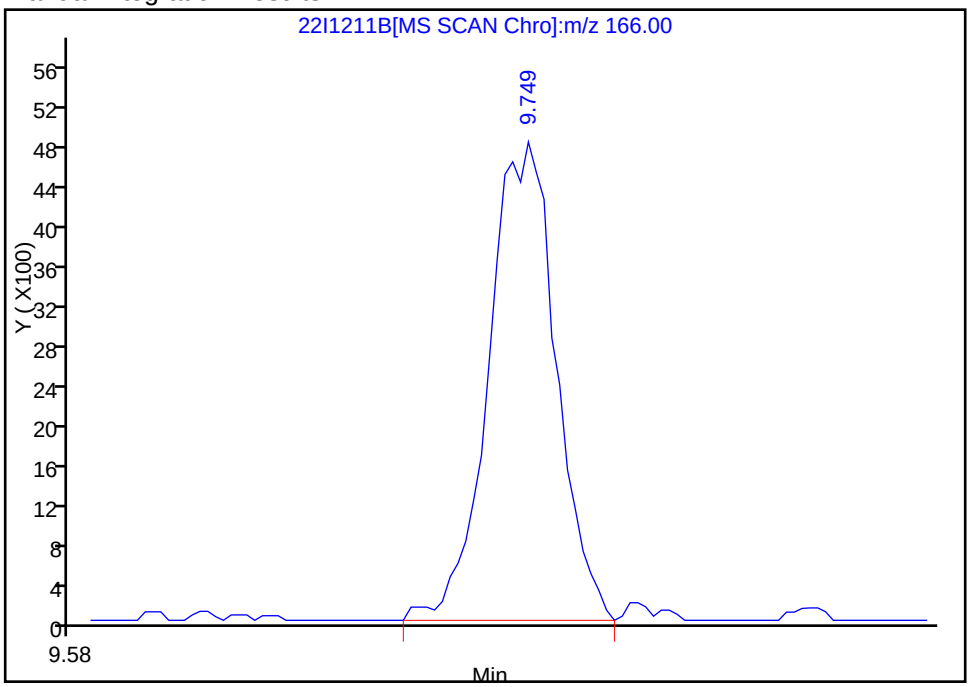
Processing Integration Results

RT: 9.74
Response: 4046
Amount: 0.642870



Manual Integration Results

RT: 9.75
Response: 8289
Amount: 1.214679



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211C.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	11-Dec-2012 15:20:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD03		
Misc. Info.:	500-0014322-004		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	172615	Lims Sample ID:	4
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:00	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:00

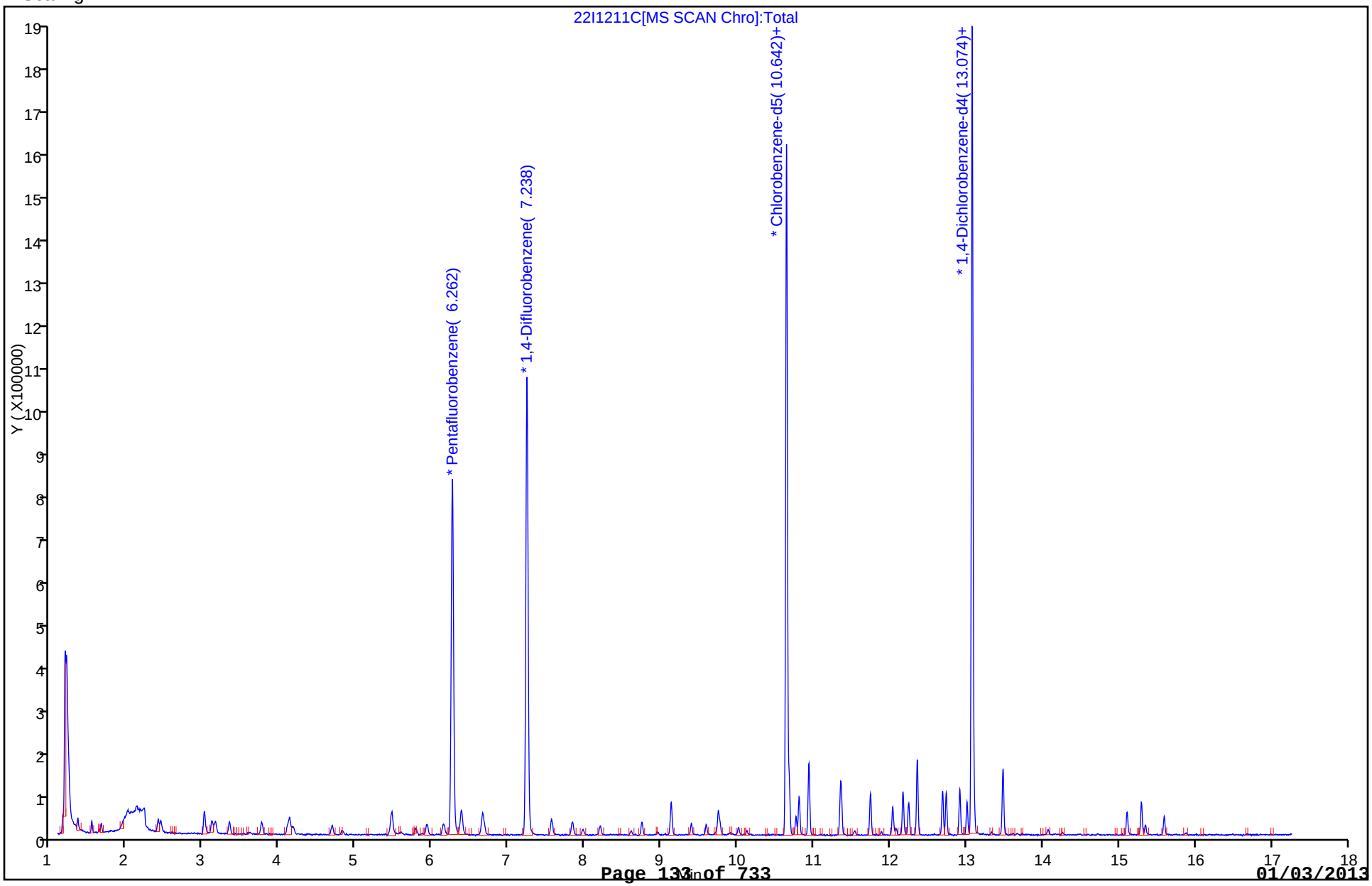
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	87	14019	1.96	
2 Chloromethane	50	1.533	1.536	-0.003	84	19121	2.04	
3 Vinyl chloride	62	1.660	1.657	0.003	78	16111	1.91	
5 Bromomethane	94	2.007	2.007	0.0	76	5817	2.21	
6 Chloroethane	64	2.122	2.122	0.0	90	8684	1.97	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	78	27342	2.07	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	76	22039	2.02	
10 Acrolein	56	3.012	3.009	0.003	92	44508	84.9	
11 1,1-Dichloroethene	96	3.116	3.110	0.006	82	11300	2.14	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	77	13042	2.03	
15 Carbon disulfide	76	3.338	3.341	-0.003	97	36202	1.85	
16 Acetonitrile	41	3.598	3.578	0.020	90	7023	17.9	
19 Methylene Chloride	84	3.760	3.763	-0.003	92	10588	2.10	
20 Acrylonitrile	53	4.101	4.095	0.006	96	19252	18.1	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	82	12190	2.05	
22 Methyl tert-butyl ether	73	4.179	4.171	0.009	81	18092	1.86	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	81	21793	1.86	
25 Vinyl acetate	43	4.812	4.815	-0.003	99	16181	1.96	
28 2,2-Dichloropropane	77	5.459	5.462	-0.003	82	18966	1.96	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	79	11093	1.85	
31 Propionitrile	54	5.589	5.580	0.009	80	5826	15.7	
34 Chlorobromomethane	128	5.779	5.783	-0.004	84	4362	1.85	
36 Chloroform	83	5.930	5.927	0.003	73	19708	2.02	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	71	19135	1.96	
* 39 Pentafluorobenzene	168	6.265	6.262	0.003	91	660013	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	74	18161	2.06	
42 1,1-Dichloropropene	75	6.380	6.383	-0.003	79	15734	1.84	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
45 Benzene	78	6.658	6.658	0.0	98	44324	1.98	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	92	12420	1.93	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	96	909881	50.0	
50 Trichloroethene	130	7.559	7.562	-0.003	84	12213	1.95	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	79	11028	1.92	
54 Dibromomethane	93	7.972	7.975	-0.003	76	4753	2.06	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	83	12765	1.95	
58 2-Chloroethyl vinyl ether	63	8.608	8.602	0.006	67	3984	2.08	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	73	14930	2.01	
62 Toluene	92	9.131	9.131	0.0	93	28786	1.93	
63 trans-1,3-Dichloropropene	75	9.396	9.394	0.002	87	11724	1.90	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	69	6500	2.07	
66 Tetrachloroethene	166	9.746	9.749	-0.003	96	14024	1.98	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	89	11637	2.13	
69 Chlorodibromomethane	129	10.015	10.012	0.003	68	7418	1.82	
70 Ethylene Dibromide	107	10.127	10.122	0.005	79	5912	1.97	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	782279	50.0	
72 Chlorobenzene	112	10.670	10.673	-0.003	92	31983	2.02	
73 1-Chlorohexane	91	10.682	10.682	0.0	65	18665	2.06	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	77	10625	2.00	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	17971	2.00	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	87017	3.90	
77 o-Xylene	91	11.349	11.349	0.0	91	43602	1.91	
78 Styrene	104	11.361	11.361	0.0	86	33541	1.91	
79 Bromoform	173	11.534	11.534	0.0	83	4275	1.78	
80 Isopropylbenzene	105	11.745	11.742	0.003	96	57244	2.03	
84 Bromobenzene	156	12.031	12.034	-0.003	85	12892	2.05	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	54	7169	2.18	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	37	5288	2.19	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	68894	2.03	
90 4-Chlorotoluene	91	12.242	12.245	-0.003	89	38120	1.99	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	85	46048	1.95	
89 2-Chlorotoluene	91	12.358	12.358	0.0	89	44629	1.96	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	91	44012	2.02	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	58	46692	2.02	
95 sec-Butylbenzene	105	12.912	12.915	-0.003	94	64452	2.00	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	91	28192	2.10	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	53	57429	2.05	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	426748	50.0	
99 1,4-Dichlorobenzene	146	13.097	13.100	-0.003	76	28274	2.13	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	22897	2.03	
101 n-Butylbenzene	91	13.481	13.481	0.0	96	48990	1.97	
105 1,2-Dibromo-3-Chloropropane	75	14.261	14.259	0.002	4	1453	2.58	
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	86	14950	1.95	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	87	13587	2.10	
110 Naphthalene	128	15.345	15.348	-0.003	93	16474	1.96	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	89	11786	1.93	
S 113 1,2-Dichloroethene, Total	96				0		3.90	
S 114 Xylenes, Total	100				0		5.81	
S 115 1,3-Dichloropropene, Total	1				0		3.90	
S 116 Trihalomethanes, Total	1				0		7.57	
S 117 Trimethylbenzene, Total	1				0		3.97	

Report Date: 12-Dec-2012 11:37:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211C.D		
Injection Date:	11-Dec-2012 15:20:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	4
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211D.D		
Lims ID:	STD04	Client ID:	
Inject. Date:	11-Dec-2012 15:48:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD04		
Misc. Info.:	500-0014322-005		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	172615	Lims Sample ID:	5
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:07	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	86	34084	4.41	
2 Chloromethane	50	1.536	1.536	0.0	88	44725	4.41	
3 Vinyl chloride	62	1.660	1.657	0.003	98	40052	4.40	
5 Bromomethane	94	2.004	2.007	-0.003	87	12250	4.30	
6 Chloroethane	64	2.122	2.122	0.0	92	22657	4.75	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	79	66676	4.67	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	79	55227	4.68	
10 Acrolein	56	3.009	3.009	0.0	93	89671	158.2	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	85	26186	4.59	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	82	32193	4.64	
13 Acetone	43	3.258	3.232	0.026	70	3957	4.34	
15 Carbon disulfide	76	3.338	3.341	-0.003	100	94343	4.47	
16 Acetonitrile	41	3.593	3.578	0.015	93	13902	32.8	
19 Methylene Chloride	84	3.766	3.763	0.003	94	25901	4.76	
20 Acrylonitrile	53	4.101	4.095	0.006	90	38635	33.6	
21 trans-1,2-Dichloroethene	96	4.127	4.130	-0.003	87	29175	4.54	
22 Methyl tert-butyl ether	73	4.173	4.171	0.003	90	48485	4.61	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	97	57801	4.57	
25 Vinyl acetate	43	4.815	4.815	0.0	99	40320	4.52	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	47829	4.56	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	86	29875	4.60	
30 2-Butanone (MEK)	43	5.537	5.523	0.014	73	5877	4.45	
31 Propionitrile	54	5.580	5.580	0.0	80	13049	32.1	
34 Chlorobromomethane	128	5.777	5.783	-0.006	83	11462	4.50	
35 Tetrahydrofuran	42	5.863	5.858	0.005	82	3843	4.66	
36 Chloroform	83	5.930	5.927	0.003	82	48119	4.57	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	89	48811	4.62	

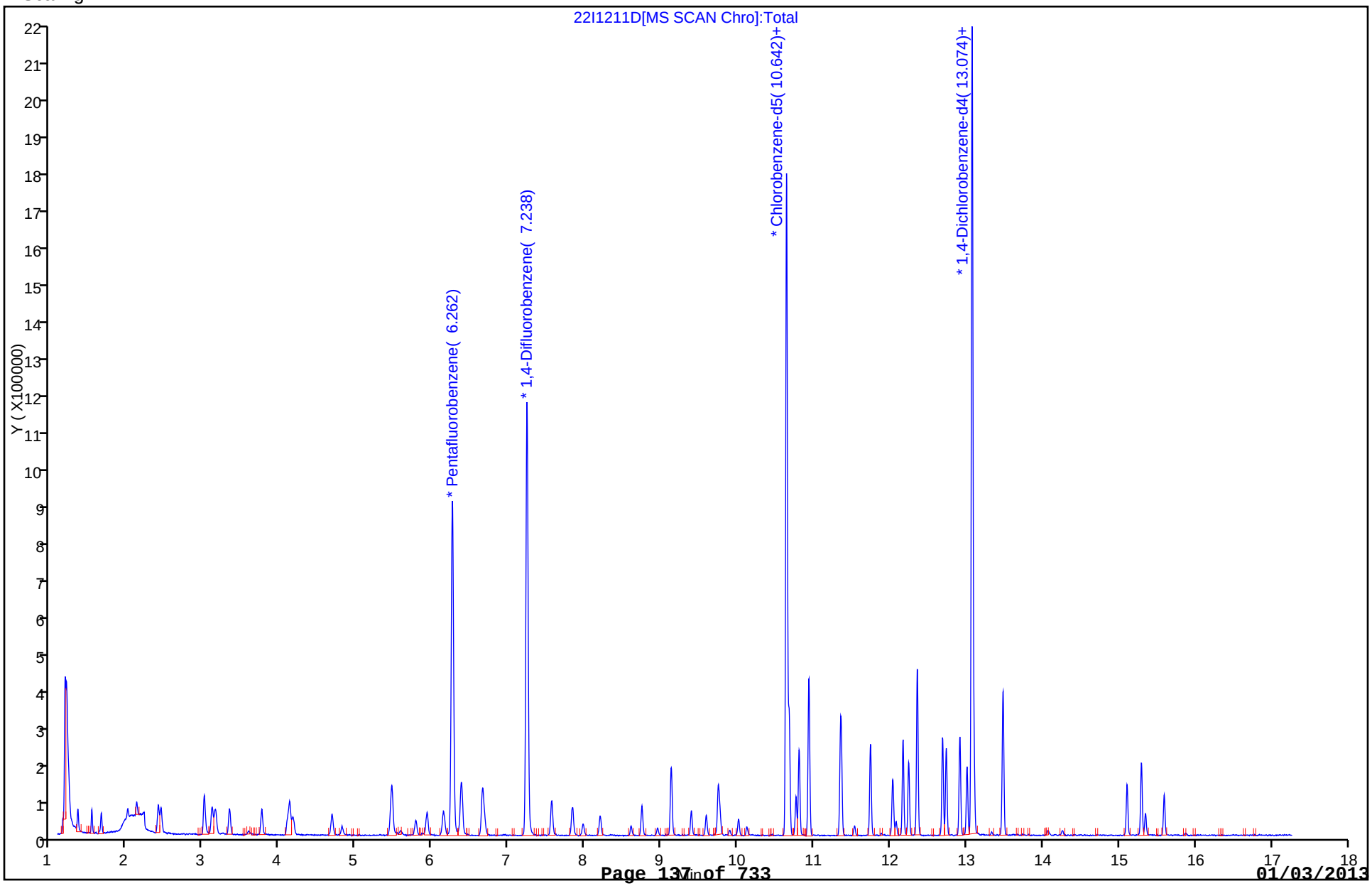
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	713682	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	76	44839	4.64	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	85	42090	4.55	
45 Benzene	78	6.658	6.658	0.0	98	113004	4.60	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	87	31493	4.45	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	96	999528	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	95	33134	4.80	
53 1,2-Dichloropropane	63	7.834	7.837	-0.003	86	28481	4.52	
54 Dibromomethane	93	7.975	7.975	0.0	85	11529	4.54	
56 Dichlorobromomethane	83	8.198	8.201	-0.003	88	33178	4.61	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	84	10192	4.84	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	80	37294	4.56	
60 4-Methyl-2-pentanone (MIBK)	43	8.949	8.952	-0.003	81	13833	4.51	
62 Toluene	92	9.131	9.131	0.0	91	74548	4.56	
63 trans-1,3-Dichloropropene	75	9.396	9.394	0.002	86	29021	4.28	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	93	15804	4.59	
66 Tetrachloroethene	166	9.746	9.749	-0.003	84	36478	4.69	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	91	27497	4.59	
68 2-Hexanone	43	9.896	9.896	0.0	85	8872	4.30	
69 Chlorodibromomethane	129	10.012	10.012	0.0	87	19500	4.37	
70 Ethylene Dibromide	107	10.122	10.122	0.0	94	14445	4.38	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	857342	50.0	
72 Chlorobenzene	112	10.671	10.673	-0.003	79	82345	4.75	
73 1-Chlorohexane	91	10.679	10.682	-0.003	77	46324	4.73	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	82	25733	4.41	
75 Ethylbenzene	106	10.809	10.809	0.0	97	45661	4.63	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	223793	9.14	
77 o-Xylene	91	11.349	11.349	0.0	90	110873	4.44	
78 Styrene	104	11.361	11.361	0.0	90	84628	4.41	
79 Bromoform	173	11.534	11.534	0.0	90	10660	4.05	
80 Isopropylbenzene	105	11.742	11.742	0.0	97	148746	4.63	
84 Bromobenzene	156	12.034	12.034	0.0	86	33053	4.62	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	18231	4.89	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	43	12868	4.69	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	176823	4.59	
90 4-Chlorotoluene	91	12.245	12.245	0.0	94	97903	4.50	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	121204	4.52	
89 2-Chlorotoluene	91	12.355	12.358	-0.003	94	117536	4.55	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	91	114646	4.62	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	64	115053	4.37	
95 sec-Butylbenzene	105	12.915	12.915	0.0	94	172232	4.69	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	73	68974	4.51	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	62	145300	4.56	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	485251	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	84	70862	4.69	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	78	58683	4.57	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	128404	4.53	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	32	2909	4.53	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	92	39749	4.57	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	91	35512	4.84	
110 Naphthalene	128	15.348	15.348	0.0	97	43237	4.52	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	92	32167	4.62	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
S 113 1,2-Dichloroethene, Total	96				0		9.14	
S 114 Xylenes, Total	100				0		13.6	
S 115 1,3-Dichloropropene, Total	1				0		8.84	
S 116 Trihalomethanes, Total	1				0		17.6	
S 117 Trimethylbenzene, Total	1				0		8.89	

Report Date: 12-Dec-2012 11:37:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211D.D		
Injection Date:	11-Dec-2012 15:48:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	5
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211E.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	11-Dec-2012 16:16:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD05		
Misc. Info.:	500-0014322-006		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	172615	Lims Sample ID:	6
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:13	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	86	128973	18.0	
2 Chloromethane	50	1.536	1.536	0.0	89	181982	19.4	
3 Vinyl chloride	62	1.657	1.657	0.0	84	161885	19.2	
5 Bromomethane	94	2.007	2.007	0.0	91	45578	17.3	
6 Chloroethane	64	2.122	2.122	0.0	97	87550	19.9	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	83	266205	20.2	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	97	219705	20.1	
10 Acrolein	56	3.009	3.009	0.0	96	410157	782.4	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	105858	20.0	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.154	3.157	-0.002	82	126370	19.7	
13 Acetone	43	3.237	3.232	0.005	86	16764	19.9	
15 Carbon disulfide	76	3.338	3.341	-0.003	98	384523	19.7	
16 Acetonitrile	41	3.581	3.578	0.003	96	62328	158.7	
19 Methylene Chloride	84	3.760	3.763	-0.003	94	105736	21.0	
20 Acrylonitrile	53	4.098	4.095	0.003	98	173831	163.5	
21 trans-1,2-Dichloroethene	96	4.127	4.130	-0.003	91	120435	20.3	
22 Methyl tert-butyl ether	73	4.173	4.171	0.003	87	200118	20.6	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	242674	20.7	
25 Vinyl acetate	43	4.815	4.815	0.0	98	169641	20.5	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	198464	20.5	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	86	123154	20.5	
30 2-Butanone (MEK)	43	5.523	5.523	-0.001	88	24272	19.9	
31 Propionitrile	54	5.577	5.580	-0.003	95	61580	161.6	
34 Chlorobromomethane	128	5.783	5.783	-0.001	94	48207	20.5	
35 Tetrahydrofuran	42	5.869	5.858	0.011	84	16127	21.1	
36 Chloroform	83	5.930	5.927	0.003	83	200834	20.6	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	60	107966	20.5	

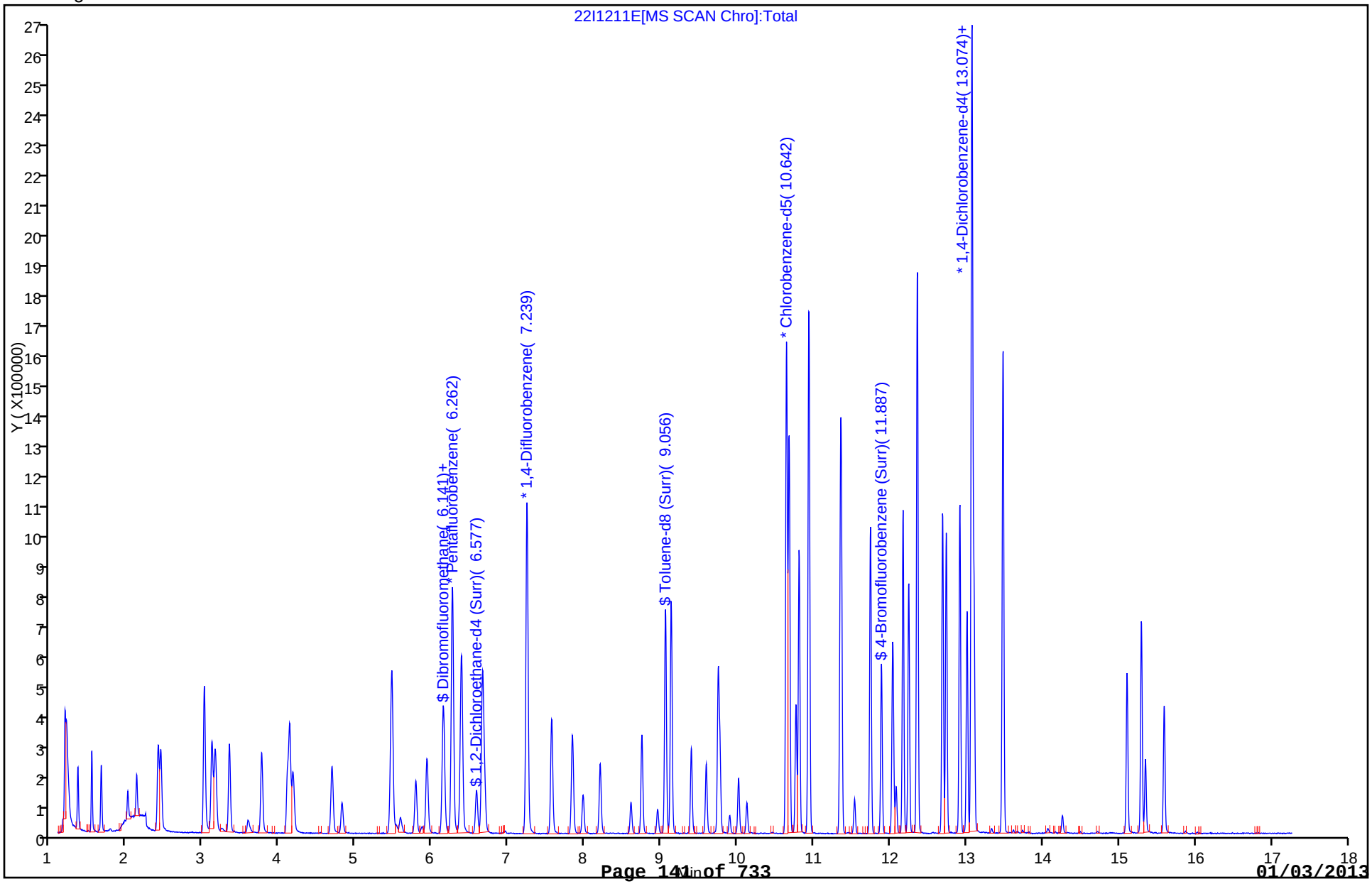
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.003	91	195166	20.0	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	91	660265	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	83	182447	20.2	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	175593	20.5	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	108560	20.8	
45 Benzene	78	6.658	6.658	0.0	96	470128	20.4	
46 1,2-Dichloroethane	62	6.687	6.684	0.003	88	135519	20.5	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	95	936473	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	97	131705	20.4	
53 1,2-Dichloropropane	63	7.834	7.837	-0.003	88	122258	20.7	
54 Dibromomethane	93	7.975	7.975	0.0	86	48251	20.3	
56 Dichlorobromomethane	83	8.201	8.201	0.0	96	139566	20.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	41067	20.8	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	84	158135	20.6	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	92	58466	20.3	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	90	461399	20.8	
62 Toluene	92	9.131	9.131	0.0	94	305710	20.0	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	127802	20.1	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	62968	19.5	
66 Tetrachloroethene	166	9.746	9.749	-0.003	95	144290	20.1	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	111881	20.3	
68 2-Hexanone	43	9.896	9.896	0.0	95	37503	19.7	
69 Chlorodibromomethane	129	10.012	10.012	0.0	90	85045	20.7	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	60214	19.5	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	85	789618	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	327328	20.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	91	184447	20.3	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	84	108914	20.3	
75 Ethylbenzene	106	10.806	10.809	-0.003	97	183060	20.1	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	939704	41.7	
77 o-Xylene	91	11.349	11.349	0.0	91	466833	20.3	
78 Styrene	104	11.361	11.361	0.0	90	360216	20.4	
79 Bromoform	173	11.534	11.534	0.0	96	49043	20.2	
80 Isopropylbenzene	105	11.742	11.742	0.0	99	610310	21.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.884	11.887	-0.003	88	158632	20.1	
84 Bromobenzene	156	12.034	12.034	0.0	82	135512	21.0	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	73	71670	21.3	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	57	53399	21.6	
88 N-Propylbenzene	91	12.170	12.170	0.0	99	727359	20.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	404326	20.6	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	87	508814	21.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	476349	20.4	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	465442	20.8	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	66	485753	20.4	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	684971	20.7	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	78	278836	20.2	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	91	590843	20.5	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	438241	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	81	274358	20.1	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	77	245994	21.2	
101 n-Butylbenzene	91	13.481	13.481	0.0	97	516775	20.2	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	58	11888	20.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	94	157753	20.1	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	128859	19.4	
110 Naphthalene	128	15.348	15.348	0.0	99	175344	20.3	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	129572	20.6	
S 113 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	100				0		62.0	
S 115 1,3-Dichloropropene, Total	1				0		40.8	
S 116 Trihalomethanes, Total	1				0		82.2	
S 117 Trimethylbenzene, Total	1				0		41.4	

Report Date: 12-Dec-2012 11:37:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211E.D		
Injection Date:	11-Dec-2012 16:16:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	6
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211F.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	11-Dec-2012 16:44:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	STD06		
Misc. Info.:	500-0014322-007		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	172615	Lims Sample ID:	7
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:19	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	88	408706	53.5	
2 Chloromethane	50	1.536	1.536	0.0	89	506217	50.5	
3 Vinyl chloride	62	1.657	1.657	0.0	84	459341	51.1	
5 Bromomethane	94	2.007	2.007	0.0	91	146376	52.0	
6 Chloroethane	64	2.122	2.122	0.0	97	237436	50.5	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	691989	49.1	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	80	586466	50.3	
10 Acrolein	56	3.009	3.009	0.0	96	1104663	1973.9	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	85	277562	49.2	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.157	3.157	0.0	82	334028	48.7	
13 Acetone	43	3.232	3.232	0.0	98	43292	48.0	
15 Carbon disulfide	76	3.341	3.341	0.0	99	1079379	51.7	
16 Acetonitrile	41	3.578	3.578	0.0	99	147511	351.9	
19 Methylene Chloride	84	3.763	3.763	0.0	94	262156	48.8	
20 Acrylonitrile	53	4.095	4.095	0.0	98	430688	379.4	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	314119	49.5	
22 Methyl tert-butyl ether	73	4.171	4.171	0.0	88	509651	49.1	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	86	616675	49.4	
25 Vinyl acetate	43	4.815	4.815	0.0	100	430488	48.8	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	510518	49.3	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	83	317732	49.5	
30 2-Butanone (MEK)	43	5.523	5.523	0.0	83	64002	49.1	
31 Propionitrile	54	5.580	5.580	0.0	97	150541	375.2	
34 Chlorobromomethane	128	5.783	5.783	0.0	90	123109	48.9	
35 Tetrahydrofuran	42	5.858	5.858	0.0	91	41123	50.4	
36 Chloroform	83	5.927	5.927	0.0	83	507134	48.8	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	69	264099	47.0	

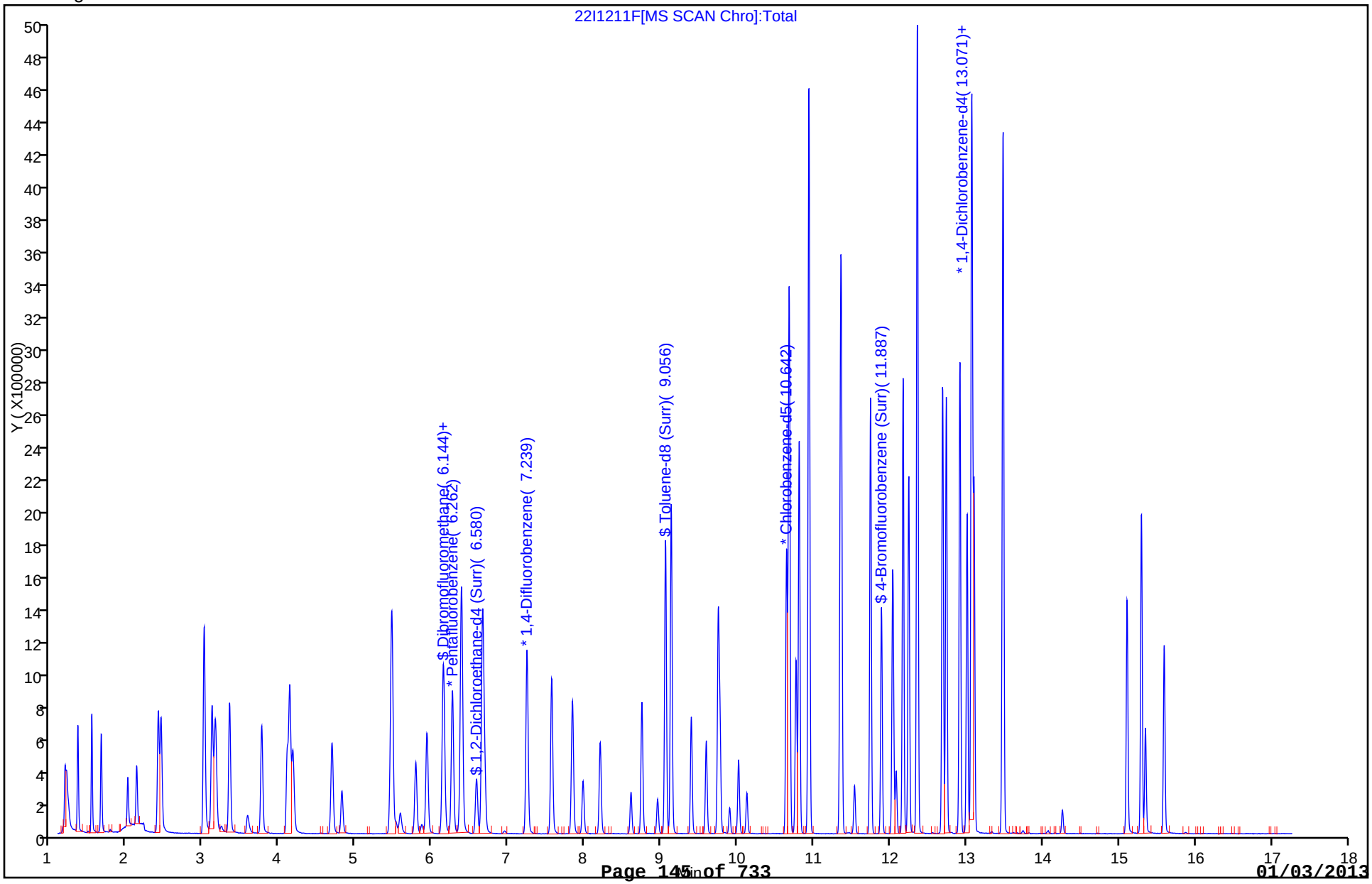
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.149	6.149	0.0	90	515733	49.5	
* 39 Pentafluorobenzene	168	6.265	6.265	0.0	91	704869	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	77	481514	50.5	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	456667	49.9	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	264333	48.0	
45 Benzene	78	6.658	6.658	0.0	97	1210657	49.9	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	82	350802	50.3	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	96	986088	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	89	338598	49.8	
53 1,2-Dichloropropane	63	7.837	7.837	0.0	88	308626	49.6	
54 Dibromomethane	93	7.975	7.975	0.0	86	122106	48.7	
56 Dichlorobromomethane	83	8.201	8.201	0.0	92	348406	49.1	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	100134	48.2	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	85	397656	49.3	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	96	151375	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	79	1119518	48.0	
62 Toluene	92	9.131	9.131	0.0	95	791155	49.1	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	325796	48.7	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	161526	47.5	
66 Tetrachloroethene	166	9.749	9.749	0.0	90	371408	49.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	284612	48.8	
68 2-Hexanone	43	9.896	9.896	0.0	97	101953	50.7	
69 Chlorodibromomethane	129	10.012	10.012	0.0	87	219735	50.5	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	154974	47.6	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	83	835432	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	93	831189	49.2	
73 1-Chlorohexane	91	10.682	10.682	0.0	85	476816	49.3	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	89	286131	50.4	
75 Ethylbenzene	106	10.809	10.809	0.0	98	484613	50.4	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2428374	101.8	
77 o-Xylene	91	11.349	11.349	0.0	92	1210753	49.8	
78 Styrene	104	11.361	11.361	0.0	89	945512	50.5	
79 Bromoform	173	11.534	11.534	0.0	98	129169	50.3	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1601454	48.2	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	400320	47.9	
84 Bromobenzene	156	12.034	12.034	0.0	91	347188	46.9	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	77	177658	46.1	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	54	135614	47.8	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1949080	48.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	1086544	48.3	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	86	1350744	48.7	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	1285442	48.1	
92 tert-Butylbenzene	119	12.690	12.690	0.0	87	1231564	48.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1323232	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	94	1845685	48.6	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	83	743079	47.0	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	93	1590983	48.3	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	89	501593	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	742273	47.6	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	75	641352	48.3	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	1443162	49.3	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	55	30736	46.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	435120	48.4	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	367053	48.3	
110 Naphthalene	128	15.348	15.348	0.0	97	469003	47.4	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	349729	48.6	
S 113 1,2-Dichloroethene, Total	96				0		99.0	
S 114 Xylenes, Total	100				0		151.6	
S 115 1,3-Dichloropropene, Total	1				0		98.0	
S 116 Trihalomethanes, Total	1				0		198.7	
S 117 Trimethylbenzene, Total	1				0		97.3	

Report Date: 12-Dec-2012 11:37:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211F.D		
Injection Date:	11-Dec-2012 16:44:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	7
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211G.D		
Lims ID:	STD07	Client ID:	
Inject. Date:	11-Dec-2012 17:13:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD07		
Misc. Info.:	500-0014322-008		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	172615	Lims Sample ID:	8
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:24	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	87	762307	103.9	
2 Chloromethane	50	1.536	1.536	0.0	89	978702	101.7	
3 Vinyl chloride	62	1.660	1.657	0.003	84	895799	103.7	
5 Bromomethane	94	2.007	2.007	0.0	92	305638	113.0	
6 Chloroethane	64	2.122	2.122	0.0	97	451232	99.9	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	84	1362610	100.7	
8 Trichlorofluoromethane	101	2.446	2.443	0.003	81	1116585	99.8	
10 Acrolein	56	3.009	3.009	0.0	96	2325112	4326.8	
11 1,1-Dichloroethene	96	3.113	3.110	0.003	87	531364	98.1	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.153	3.157	-0.003	83	647515	98.4	
13 Acetone	43	3.229	3.232	-0.003	84	90934	105.1	
15 Carbon disulfide	76	3.341	3.341	0.0	99	2149891	107.3	
16 Acetonitrile	41	3.572	3.578	-0.006	99	304606	756.7	
19 Methylene Chloride	84	3.763	3.763	0.0	94	511318	99.1	
20 Acrylonitrile	53	4.095	4.095	0.0	98	889127	815.8	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	90	610637	100.3	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	94	1027632	103.0	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	86	1208102	100.8	
25 Vinyl acetate	43	4.815	4.815	0.0	100	879019	103.8	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	986077	99.2	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	83	626799	101.7	
30 2-Butanone (MEK)	43	5.522	5.523	-0.001	76	128968	103.1	
31 Propionitrile	54	5.577	5.580	-0.003	98	311165	790.8	
34 Chlorobromomethane	128	5.782	5.783	-0.001	89	236461	97.9	
35 Tetrahydrofuran	42	5.857	5.858	-0.001	85	77379	98.8	
36 Chloroform	83	5.927	5.927	0.0	84	997634	99.9	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	63	555702	102.9	

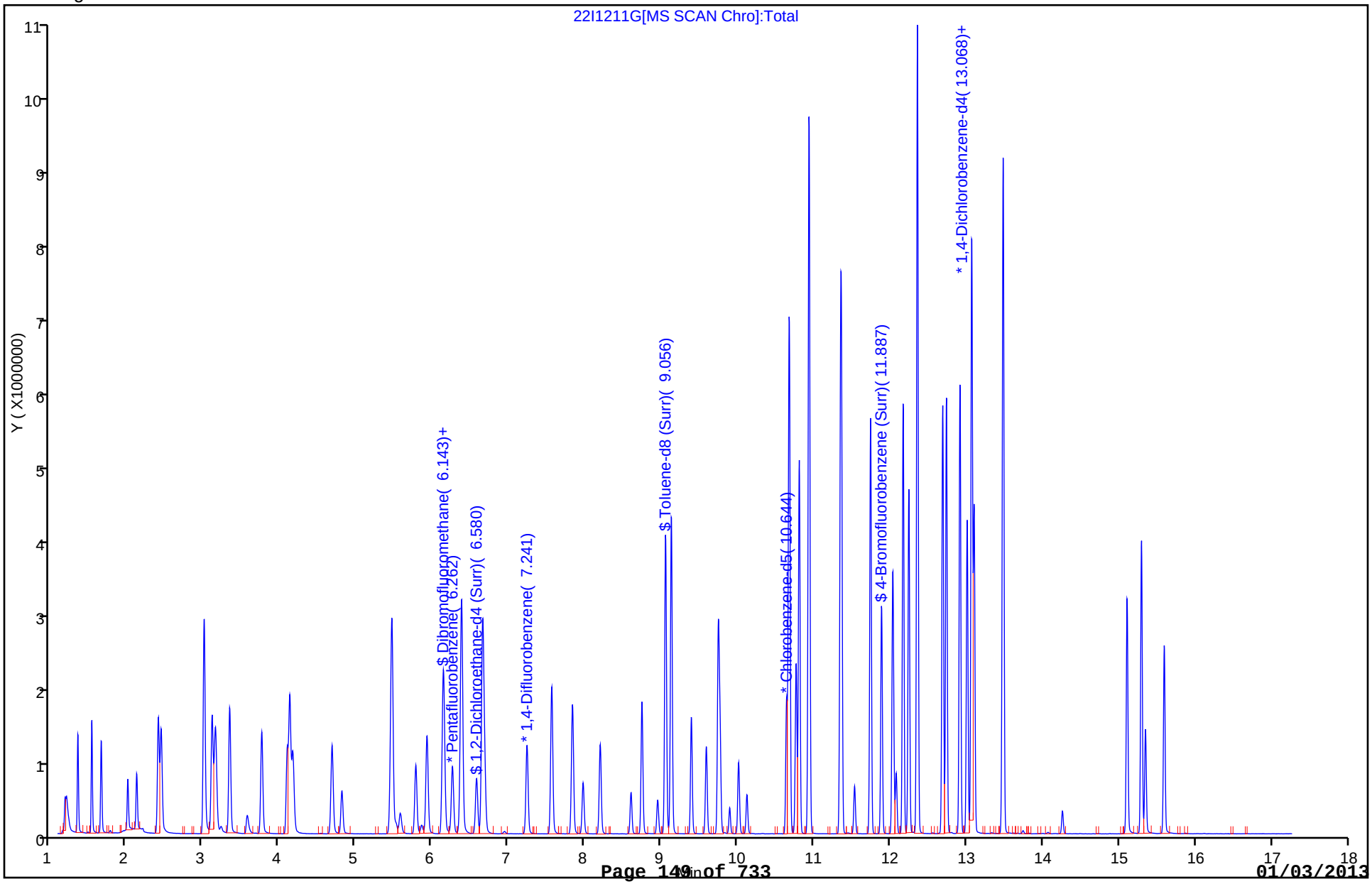
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	89	997347	99.6	
* 39 Pentafluorobenzene	168	6.262	6.265	-0.003	91	676821	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	80	918644	98.3	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	876844	99.8	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	538799	99.7	
45 Benzene	78	6.658	6.658	0.0	96	2356179	99.1	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	686980	100.4	
* 49 1,4-Difluorobenzene	114	7.241	7.239	0.002	95	967012	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	90	643029	96.4	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	88	601403	98.6	
54 Dibromomethane	93	7.975	7.975	0.0	91	239384	97.4	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	92	696059	100.0	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	88	208398	102.2	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	794708	100.4	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	96	300182	101.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	82	2322467	101.4	
62 Toluene	92	9.131	9.131	0.0	94	1558816	98.6	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	93	654311	99.7	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	322360	96.7	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	720453	96.6	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	95	560890	97.8	
68 2-Hexanone	43	9.896	9.896	0.0	98	206593	104.4	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	442108	103.4	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	316106	99.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	73	821734	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	1624419	97.7	
73 1-Chlorohexane	91	10.682	10.682	0.0	88	915102	98.5	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	89	568808	101.8	
75 Ethylbenzene	106	10.809	10.809	0.0	98	948132	100.3	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	4783893	203.9	
77 o-Xylene	91	11.349	11.349	0.0	93	2416819	101.0	
78 Styrene	104	11.364	11.361	0.003	91	1886331	102.5	
79 Bromoform	173	11.534	11.534	0.0	98	263003	104.2	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	3109566	95.5	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	840950	102.2	
84 Bromobenzene	156	12.034	12.034	0.0	85	690763	95.3	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	80	357760	94.7	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	264488	95.2	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	3820722	97.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	2165096	98.3	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	2716376	100.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	2595965	99.2	
92 tert-Butylbenzene	119	12.690	12.690	0.0	91	2399839	95.4	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	69	2676625	100.4	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	3596271	96.7	
96 1,3-Dichlorobenzene	146	13.010	13.011	-0.001	96	1492625	96.4	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	92	3156888	97.7	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	64	491412	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	93	1478508	96.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	79	1265519	97.3	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	2864857	99.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	61	61117	94.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	94	899145	102.0	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	94	682660	91.8	
110 Naphthalene	128	15.348	15.348	0.0	99	960821	99.2	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	91	697002	98.9	
S 113 1,2-Dichloroethene, Total	96				0		201.9	
S 114 Xylenes, Total	100				0		304.9	
S 115 1,3-Dichloropropene, Total	1				0		200.2	
S 116 Trihalomethanes, Total	1				0		407.4	
S 117 Trimethylbenzene, Total	1				0		200.3	

Report Date: 12-Dec-2012 11:37:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211G.D		
Injection Date:	11-Dec-2012 17:13:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	8
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211H.D		
Lims ID:	STD08	Client ID:	
Inject. Date:	11-Dec-2012 17:41:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	STD08		
Misc. Info.:	500-0014322-009		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	172615	Lims Sample ID:	9
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:31	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	1110898	142.5	
2 Chloromethane	50	1.536	1.536	0.0	88	1468998	143.7	
3 Vinyl chloride	62	1.660	1.657	0.003	84	1302949	142.0	
5 Bromomethane	94	2.007	2.007	0.0	92	455210	158.4	
6 Chloroethane	64	2.125	2.122	0.003	97	656528	136.8	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	84	2035639	141.7	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	81	1646914	138.6	
10 Acrolein	56	3.009	3.009	0.0	95	3885554	6806.3	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	848798	147.5	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	86	1013020	144.9	
13 Acetone	43	3.232	3.232	0.0	94	148822	161.9	
15 Carbon disulfide	76	3.341	3.341	0.0	99	3185269	149.7	
16 Acetonitrile	41	3.572	3.578	-0.006	99	515971	1206.6	
19 Methylene Chloride	84	3.763	3.763	0.0	94	794285	144.9	
20 Acrylonitrile	53	4.098	4.095	0.003	98	1460725	1261.6	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	89	955652	147.7	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	97	1589481	150.0	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	86	1877461	147.4	
25 Vinyl acetate	43	4.815	4.815	0.0	100	1367143	152.0	
28 2,2-Dichloropropane	77	5.465	5.462	0.003	77	1552961	147.1	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	84	968176	147.8	
30 2-Butanone (MEK)	43	5.525	5.523	0.002	87	209900	157.9	
31 Propionitrile	54	5.583	5.580	0.003	98	533857	1282.4	
34 Chlorobromomethane	128	5.785	5.783	0.002	79	374570	146.0	
35 Tetrahydrofuran	42	5.860	5.858	0.002	89	123251	148.2	
36 Chloroform	83	5.930	5.927	0.003	84	1553050	146.4	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	61	857139	149.4	

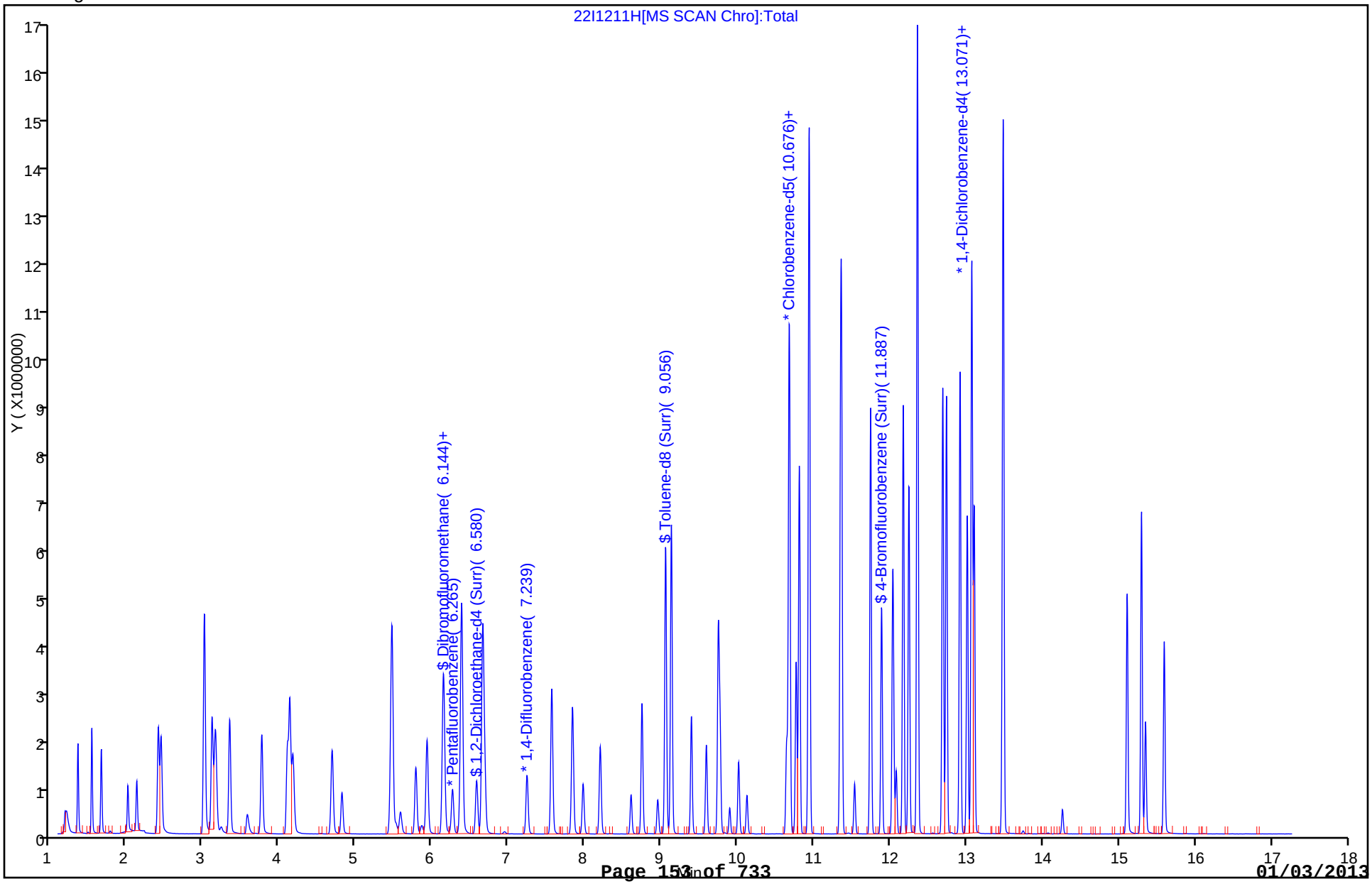
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.003	88	1578989	148.5	
* 39 Pentafluorobenzene	168	6.262	6.265	-0.003	90	719006	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	76	1463204	147.9	
42 1,1-Dichloropropene	75	6.386	6.383	0.003	84	1388026	148.8	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	854290	149.5	
45 Benzene	78	6.661	6.658	0.003	96	3675431	146.1	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	84	1080708	149.4	
* 49 1,4-Difluorobenzene	114	7.241	7.239	0.002	95	1023073	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	89	1009984	143.1	
53 1,2-Dichloropropane	63	7.837	7.837	-0.001	87	948132	147.0	
54 Dibromomethane	93	7.975	7.975	0.0	90	375807	144.5	
56 Dichlorobromomethane	83	8.201	8.201	-0.001	91	1090230	148.0	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	92	313500	145.4	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	86	1248175	149.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.955	8.952	0.003	96	492445	156.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	82	3587473	148.1	
62 Toluene	92	9.134	9.131	0.003	93	2453857	146.7	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	95	1058276	152.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	89	519398	147.3	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	1142505	140.5	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	95	913572	146.0	
68 2-Hexanone	43	9.896	9.896	0.0	97	337483	156.4	
69 Chlorodibromomethane	129	10.015	10.012	0.003	87	718959	154.2	
70 Ethylene Dibromide	107	10.122	10.122	0.0	100	499079	147.7	
* 71 Chlorobenzene-d5	117	10.645	10.642	0.003	87	895970	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	2599260	143.3	
73 1-Chlorohexane	91	10.682	10.682	0.0	87	1474279	149.3	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	90	929412	152.6	
75 Ethylbenzene	106	10.809	10.809	0.0	98	1510230	146.5	
76 m-Xylene & p-Xylene	91	10.939	10.936	0.003	0	7504852	293.4	
77 o-Xylene	91	11.349	11.349	0.0	93	3921614	150.3	
78 Styrene	104	11.364	11.361	0.003	89	3080454	153.5	
79 Bromoform	173	11.534	11.534	0.0	98	446109	162.0	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	5106365	142.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	1346757	150.2	
84 Bromobenzene	156	12.034	12.034	0.0	94	1135272	141.8	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	78	598529	143.4	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	57	444171	144.8	
88 N-Propylbenzene	91	12.173	12.170	0.003	98	6168362	143.1	
90 4-Chlorotoluene	91	12.248	12.245	0.003	92	3525867	144.9	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	4413867	147.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	4248167	147.0	
92 tert-Butylbenzene	119	12.690	12.690	0.0	87	3976419	143.2	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	66	4370483	148.4	
95 sec-Butylbenzene	105	12.918	12.915	0.003	83	5955880	145.0	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	96	2463360	144.1	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	94	5179163	145.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	57	542777	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	94	2403110	142.3	
100 1,2-Dichlorobenzene	146	13.479	13.476	0.003	71	2063725	143.7	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	4811328	151.8	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	61	103368	144.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	1475044	151.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	95	1206171	146.8	
110 Naphthalene	128	15.348	15.348	0.0	98	1657420	154.9	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	93	1171916	150.5	
S 113 1,2-Dichloroethene, Total	96				0		295.5	
S 114 Xylenes, Total	100				0		443.7	
S 115 1,3-Dichloropropene, Total	1				0		301.6	
S 116 Trihalomethanes, Total	1				0		610.7	
S 117 Trimethylbenzene, Total	1				0		295.4	

Report Date: 12-Dec-2012 11:37:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211H.D		
Injection Date:	11-Dec-2012 17:41:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	9
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211I.D		
Lims ID:	STD09	Client ID:	
Inject. Date:	11-Dec-2012 18:09:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	STD09		
Misc. Info.:	500-0014322-010		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	172615	Lims Sample ID:	10
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:36	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	88	1572519	197.9	
2 Chloromethane	50	1.533	1.536	-0.003	88	2055922	197.2	
3 Vinyl chloride	62	1.657	1.657	0.0	84	1853836	198.2	
5 Bromomethane	94	2.007	2.007	0.0	92	654905	223.6	
6 Chloroethane	64	2.122	2.122	0.0	93	899737	183.9	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	2806119	191.5	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	81	2285626	188.7	
10 Acrolein	56	3.012	3.009	0.003	96	5276134	9066.2	
11 1,1-Dichloroethene	96	3.113	3.110	0.003	86	1184587	202.0	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.157	3.157	0.001	84	1415755	198.7	
13 Acetone	43	3.232	3.232	0.0	93	196769	209.9	
15 Carbon disulfide	76	3.341	3.341	0.0	99	4391617	202.4	
16 Acetonitrile	41	3.573	3.578	-0.005	100	692080	1587.6	
19 Methylene Chloride	84	3.763	3.763	0.0	93	1131397	202.5	
20 Acrylonitrile	53	4.098	4.095	0.003	98	1990459	1686.4	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	90	1334459	202.3	
22 Methyl tert-butyl ether	73	4.171	4.171	0.001	94	2217547	205.3	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	2663163	205.1	
25 Vinyl acetate	43	4.815	4.815	0.0	100	1947324	212.4	
28 2,2-Dichloropropane	77	5.465	5.462	0.003	76	2191135	203.6	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	84	1363967	204.3	
30 2-Butanone (MEK)	43	5.523	5.523	0.0	76	284336	209.8	
31 Propionitrile	54	5.580	5.580	0.0	99	726579	1723.2	
34 Chlorobromomethane	128	5.783	5.783	0.0	77	519660	198.6	
35 Tetrahydrofuran	42	5.858	5.858	0.0	89	174315	205.6	
36 Chloroform	83	5.927	5.927	0.0	85	2179601	201.6	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	67	1182785	202.2	

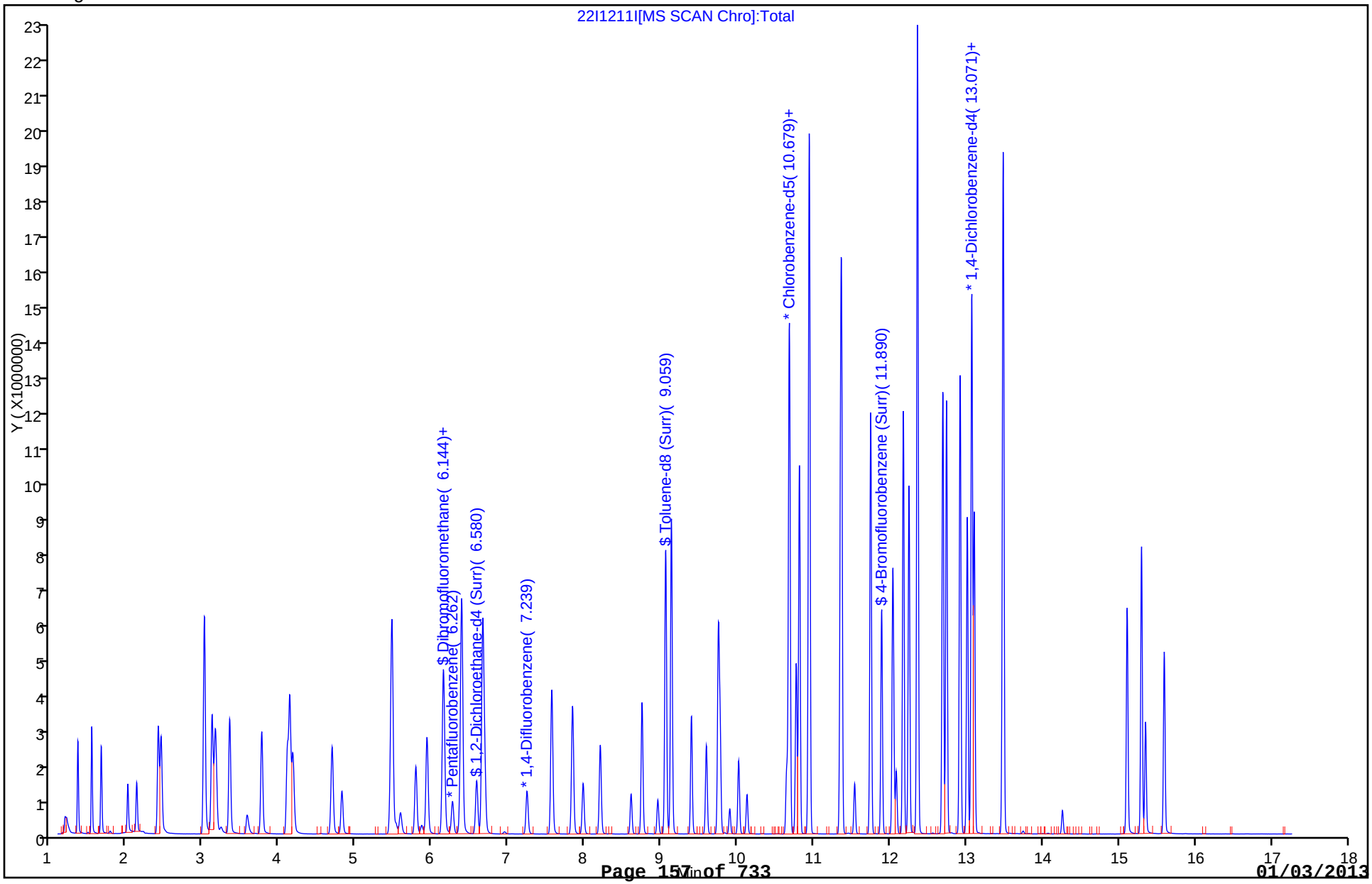
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.002	90	2223267	205.1	
* 39 Pentafluorobenzene	168	6.265	6.265	0.0	74	732965	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	80	2051034	204.7	
42 1,1-Dichloropropene	75	6.386	6.383	0.003	85	1960009	206.1	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	1167924	201.8	
45 Benzene	78	6.661	6.658	0.003	96	5120985	201.0	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	82	1510261	206.1	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	95	1036247	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	90	1411923	197.5	
53 1,2-Dichloropropane	63	7.837	7.837	0.0	85	1325238	202.8	
54 Dibromomethane	93	7.975	7.975	0.0	92	522887	198.5	
56 Dichlorobromomethane	83	8.201	8.201	0.0	91	1527793	204.8	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	93	436785	200.0	
59 cis-1,3-Dichloropropene	75	8.749	8.747	0.002	86	1745247	205.8	
60 4-Methyl-2-pentanone (MIBK)	43	8.955	8.952	0.003	83	654734	205.7	
$ 61 Toluene-d8 (Surr)	98	9.059	9.056	0.003	75	4898132	199.7	
62 Toluene	92	9.134	9.131	0.003	95	3422834	202.0	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	92	1459268	207.6	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	90	716065	200.5	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	1570157	194.0	
67 1,3-Dichloropropane	76	9.772	9.769	0.003	96	1263367	202.8	
68 2-Hexanone	43	9.896	9.896	0.0	98	453433	211.0	
69 Chlorodibromomethane	129	10.015	10.012	0.003	89	994298	214.1	
70 Ethylene Dibromide	107	10.125	10.122	0.003	99	690159	201.7	
* 71 Chlorobenzene-d5	117	10.645	10.642	0.003	74	892089	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	3554021	196.8	
73 1-Chlorohexane	91	10.682	10.682	0.0	88	2004578	199.2	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	87	1279270	210.9	
75 Ethylbenzene	106	10.812	10.809	0.003	98	2077566	202.4	
76 m-Xylene & p-Xylene	91	10.939	10.936	0.003	0	9950024	390.7	
77 o-Xylene	91	11.352	11.349	0.003	91	5406441	208.1	
78 Styrene	104	11.364	11.361	0.003	88	4226631	211.5	
79 Bromoform	173	11.534	11.534	0.0	97	613724	223.9	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	6881199	198.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	89	1814509	203.2	
84 Bromobenzene	156	12.034	12.034	0.0	94	1541345	199.2	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	81	812983	201.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	613409	206.8	
88 N-Propylbenzene	91	12.173	12.170	0.003	97	8171167	196.1	
90 4-Chlorotoluene	91	12.248	12.245	0.003	92	4776401	203.1	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	5925708	204.2	
89 2-Chlorotoluene	91	12.361	12.358	0.003	94	5706737	204.3	
92 tert-Butylbenzene	119	12.693	12.690	0.003	86	5408653	201.5	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	69	5915680	207.8	
95 sec-Butylbenzene	105	12.918	12.915	0.003	96	7919600	199.5	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	96	3287950	199.0	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	92	6891004	199.8	
* 98 1,4-Dichlorobenzene-d4	152	13.080	13.077	0.003	56	524649	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	93	3219268	197.2	
100 1,2-Dichlorobenzene	146	13.479	13.476	0.003	71	2766492	199.2	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	6351852	207.4	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	61	138335	199.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	1901927	202.1	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	1489923	187.6	
110 Naphthalene	128	15.348	15.348	0.0	98	2236810	216.3	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	92	1518870	201.9	
S 113 1,2-Dichloroethene, Total	96				0		406.6	
S 114 Xylenes, Total	100				0		598.7	
S 115 1,3-Dichloropropene, Total	1				0		413.4	
S 116 Trihalomethanes, Total	1				0		844.4	
S 117 Trimethylbenzene, Total	1				0		412.0	

Report Date: 12-Dec-2012 11:37:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211I.D		
Injection Date:	11-Dec-2012 18:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	10
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22S1211.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	Ave	0.5420	0.4239	0.0100	39.1	50.0	-21.8	25.0
Chloromethane	Ave	0.7111	0.5561	0.1000	39.1	50.0	-21.8	25.0
Vinyl chloride	Ave	0.6381	0.5920	0.0100	46.4	50.0	-7.2	25.0
Bromomethane	Ave	0.1998	0.1541	0.0100	38.6	50.0	-22.9	25.0
Chloroethane	Ave	0.3338	0.2911	0.0100	43.6	50.0	-12.8	25.0
Dichlorofluoromethane	Ave	0.999	0.8378	0.0100	41.9	50.0	-16.2	25.0
Trichlorofluoromethane	Ave	0.8265	0.7409	0.0100	44.8	50.0	-10.4	25.0
Acrolein	Ave	0.0397	0.0406	0.0010	2040	2000	2.2	25.0
1,1-Dichloroethene	Ave	0.4001	0.3815	0.0100	47.7	50.0	-4.7	25.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4862	0.4598	0.0100	47.3	50.0	-5.4	25.0
Acetone	Ave	0.0639	0.0621	0.0100	48.5	50.0	-2.9	25.0
Carbon disulfide	Ave	1.480	1.369	0.0100	46.3	50.0	-7.5	25.0
Acetonitrile	Ave	0.0297	0.0292	0.0010	393	400	-1.7	25.0
Methylene Chloride	Ave	0.3812	0.3602	0.0100	47.2	50.0	-5.5	25.0
Acrylonitrile	Ave	0.0805	0.0797	0.0010	396	400	-1.0	25.0
trans-1,2-Dichloroethene	Ave	0.4499	0.4398	0.0100	48.9	50.0	-2.3	25.0
Methyl tert-butyl ether	Ave	0.7369	0.6905	0.0100	46.8	50.0	-6.3	25.0
1,1-Dichloroethane	Ave	0.8857	0.8456	0.1000	47.7	50.0	-4.5	25.0
Vinyl acetate	Ave	0.6255	0.6214	0.0100	49.7	50.0	-0.6	25.0
2,2-Dichloropropane	Ave	0.7341	0.6853	0.0100	46.7	50.0	-6.6	25.0
cis-1,2-Dichloroethene	Ave	0.4554	0.4436	0.0100	48.7	50.0	-2.6	25.0
2-Butanone (MEK)	Ave	0.0924	0.0837	0.0100	45.3	50.0	-9.4	25.0
Propionitrile	Ave	0.0203	0.0211	0.0010	414	400	3.5	25.0
Bromochloromethane	Ave	0.1785	0.1638	0.0100	45.9	50.0	-8.2	25.0
Tetrahydrofuran	Ave	0.0578	0.0548	0.0100	47.3	50.0	-5.3	25.0
Chloroform	Ave	0.7375	0.7135	0.0100	48.4	50.0	-3.3	25.0
1,1,1-Trichloroethane	Ave	0.7394	0.7299	0.0100	49.4	50.0	-1.3	25.0
Carbon tetrachloride	Ave	0.4834	0.4652	0.0100	48.1	50.0	-3.8	25.0
1,1-Dichloropropene	Ave	0.6488	0.6138	0.0100	47.3	50.0	-5.4	25.0
Benzene	Ave	1.229	1.148	0.0100	46.7	50.0	-6.6	25.0
1,2-Dichloroethane	Ave	0.3536	0.3244	0.0100	45.9	50.0	-8.3	25.0
Trichloroethene	Ave	0.3450	0.3212	0.0100	46.6	50.0	-6.9	25.0
1,2-Dichloropropane	Ave	0.3152	0.2970	0.0100	47.1	50.0	-5.8	25.0
Dibromomethane	Ave	0.1271	0.1149	0.0100	45.2	50.0	-9.6	25.0
Bromodichloromethane	Ave	0.3600	0.3216	0.0100	44.7	50.0	-10.7	25.0
2-Chloroethyl vinyl ether	Ave	0.1054	0.0957	0.0100	45.4	50.0	-9.2	25.0
cis-1,3-Dichloropropene	Ave	0.4091	0.3814	0.0100	50.1	53.8	-6.8	25.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1536	0.1404	0.0100	45.7	50.0	-8.6	25.0
Toluene	Ave	0.8177	0.7569	0.0100	46.3	50.0	-7.4	25.0
trans-1,3-Dichloropropene	Ave	0.3392	0.3107	0.0100	44.5	48.6	-8.4	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22S1211.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
1,1,2-Trichloroethane	Ave	0.1723	0.1573	0.0100	45.6	50.0	-8.7	25.0
Tetrachloroethene	Ave	0.4537	0.4260	0.0100	47.0	50.0	-6.1	25.0
1,3-Dichloropropane	Ave	0.3491	0.3223	0.0100	46.2	50.0	-7.7	25.0
2-Hexanone	Ave	0.1204	0.1135	0.0100	47.1	50.0	-5.7	25.0
Dibromochloromethane	Ave	0.2603	0.2454	0.0100	47.1	50.0	-5.7	25.0
1,2-Dibromoethane	Ave	0.1651	0.1486	0.0100	45.0	50.0	-10.0	25.0
Chlorobenzene	Ave	1.012	0.9004	0.3000	44.5	50.0	-11.0	25.0
1-Chlorohexane	Ave	0.6865	0.6546	0.0100	47.7	50.0	-4.6	25.0
1,1,1,2-Tetrachloroethane	Ave	0.3400	0.3297	0.0100	48.5	50.0	-3.0	25.0
Ethylbenzene	Ave	0.5753	0.5498	0.0100	47.8	50.0	-4.4	25.0
m&p-Xylene	Ave	1.427	1.339	0.0100	93.8	100	-6.2	25.0
o-Xylene	Ave	1.456	1.295	0.0100	44.5	50.0	-11.1	25.0
Styrene	Ave	1.120	1.076	0.0100	48.0	50.0	-3.9	25.0
Bromoform	Ave	0.1536	0.1521	0.1000	49.5	50.0	-1.0	25.0
Isopropylbenzene	Ave	3.312	2.951	0.0100	44.6	50.0	-10.9	25.0
Bromobenzene	Ave	0.7374	0.6901	0.0100	46.8	50.0	-6.4	25.0
1,1,2,2-Tetrachloroethane	Ave	0.3844	0.3650	0.3000	47.5	50.0	-5.1	25.0
1,2,3-Trichloropropane	Ave	0.2827	0.2697	0.0100	47.7	50.0	-4.6	25.0
N-Propylbenzene	Ave	3.971	3.489	0.0100	43.9	50.0	-12.2	25.0
4-Chlorotoluene	Ave	2.242	2.042	0.0100	45.5	50.0	-8.9	25.0
1,3,5-Trimethylbenzene	Ave	2.765	2.737	0.0100	49.5	50.0	-1.0	25.0
2-Chlorotoluene	Ave	2.663	2.355	0.0100	44.2	50.0	-11.6	25.0
tert-Butylbenzene	Ave	2.558	2.302	0.0100	45.0	50.0	-10.0	25.0
1,2,4-Trimethylbenzene	Ave	2.713	2.637	0.0100	48.6	50.0	-2.8	25.0
sec-Butylbenzene	Ave	3.783	3.418	0.0100	45.2	50.0	-9.6	25.0
1,3-Dichlorobenzene	Ave	1.575	1.369	0.0100	43.5	50.0	-13.1	25.0
p-Isopropyltoluene	Ave	3.287	2.935	0.0100	44.6	50.0	-10.7	25.0
1,4-Dichlorobenzene	Ave	1.556	1.454	0.0100	46.7	50.0	-6.6	25.0
1,2-Dichlorobenzene	Ave	1.323	1.190	0.0100	45.0	50.0	-10.1	25.0
n-Butylbenzene	Ave	2.919	2.736	0.0100	46.9	50.0	-6.3	25.0
1,2-Dibromo-3-Chloropropane	Ave	0.0661	0.0567	0.0100	42.9	50.0	-14.2	25.0
1,2,4-Trichlorobenzene	Ave	0.8970	0.7803	0.0100	43.5	50.0	-13.0	25.0
Hexachlorobutadiene	Ave	0.7568	0.6904	0.0100	45.6	50.0	-8.8	25.0
Naphthalene	Ave	0.9856	0.8667	0.0100	44.0	50.0	-12.1	25.0
1,2,3-Trichlorobenzene	Ave	0.7171	0.6586	0.0100	45.9	50.0	-8.2	25.0
Dibromofluoromethane	Ave	0.3990	0.3761	0.0100	47.1	50.0	-5.7	25.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2556	0.0100	45.8	50.0	-8.5	25.0
Toluene-d8 (Surr)	Ave	1.184	1.117	0.0100	47.2	50.0	-5.6	25.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4730	0.0100	47.3	50.0	-5.5	25.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D
Lims ID: ICV Client ID:
Inject. Date: 12-Dec-2012 00:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 500-0014322-023
Operator: EA Instrument ID: CMS22
Purge Vol: 5.000 mL ALS Bottle#: 23
Lims Batch ID: 172615 Lims Sample ID: 23
Sublist:
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 12-Dec-2012 11:47:33 Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:47:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	327371	39.1	
2 Chloromethane	50	1.533	1.536	-0.003	89	429476	39.1	
3 Vinyl chloride	62	1.660	1.657	0.003	84	457199	46.4	
5 Bromomethane	94	2.010	2.007	0.003	91	118985	38.6	
6 Chloroethane	64	2.122	2.122	0.0	97	224822	43.6	
7 Dichlorofluoromethane	67	2.402	2.405	-0.003	84	647027	41.9	
8 Trichlorofluoromethane	101	2.434	2.443	-0.009	81	572179	44.8	
9 Ethyl ether	59	2.885	2.882	0.003	97	194347	48.3	
10 Acrolein	56	3.015	3.009	0.006	94	1253247	2043.9	
11 1,1-Dichloroethene	96	3.107	3.110	-0.003	86	294602	47.7	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.157	-0.005	86	355074	47.3	
13 Acetone	43	3.249	3.232	0.017	51	47923	48.5	
14 Iodomethane	142	3.272	3.275	-0.003	99	531238	52.8	
15 Carbon disulfide	76	3.336	3.341	-0.005	99	1057386	46.3	
16 Acetonitrile	41	3.590	3.578	0.012	100	180674	393.4	
18 Methyl acetate	43	3.682	3.677	0.005	96	111996	34.1	
19 Methylene Chloride	84	3.763	3.763	0.0	93	278131	47.2	
20 Acrylonitrile	53	4.104	4.095	0.009	96	492418	396.0	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	339636	48.9	
22 Methyl tert-butyl ether	73	4.176	4.171	0.006	88	533228	46.8	
23 Hexane	57	4.534	4.535	-0.001	95	696527	51.5	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	653007	47.7	
25 Vinyl acetate	43	4.818	4.815	0.003	100	479921	49.7	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	529268	46.7	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	84	342564	48.7	
30 2-Butanone (MEK)	43	5.528	5.523	0.005	85	64652	45.3	
31 Propionitrile	54	5.583	5.580	0.003	97	185190	413.8	

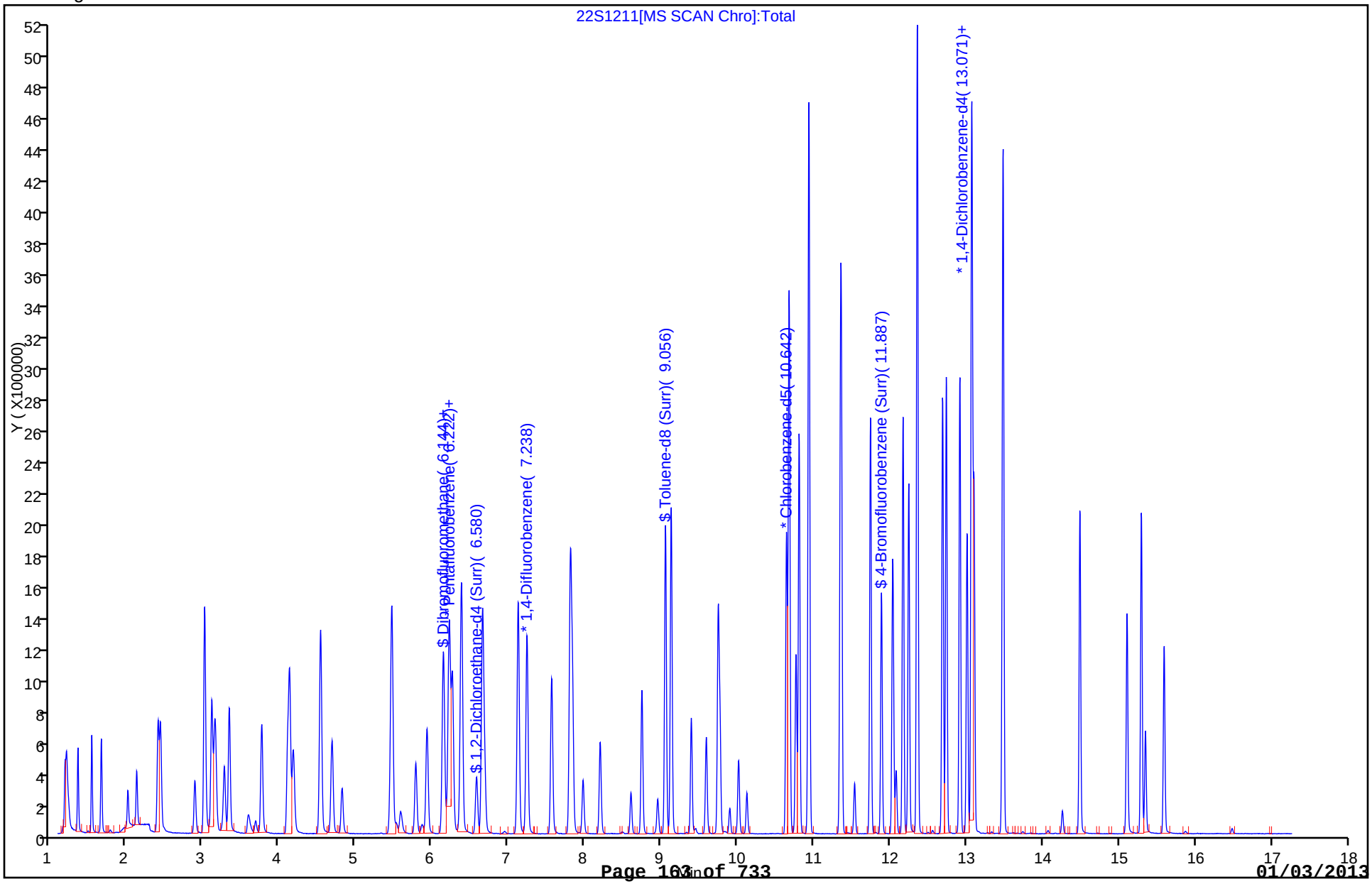
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
34 Chlorobromomethane	128	5.782	5.783	-0.001	76	126505	45.9	
35 Tetrahydrofuran	42	5.866	5.858	0.008	91	42284	47.3	
36 Chloroform	83	5.930	5.927	0.003	84	551023	48.4	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	44	290466	47.1	
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	77	563647	49.4	
40 Cyclohexane	56	6.222	6.225	-0.003	92	816640	49.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	62	772269	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	78	511673	48.1	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	86	473999	47.3	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	281098	45.8	
45 Benzene	78	6.658	6.658	0.0	97	1262249	46.7	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	356731	45.9	
48 n-Heptane	43	7.123	7.123	0.0	97	761325	47.1	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	95	1099840	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	90	353263	46.6	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	667465	50.8	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	83	326604	47.1	
54 Dibromomethane	93	7.975	7.975	0.0	90	126374	45.2	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	97	353685	44.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	105254	45.4	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	450911	50.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.954	8.952	0.002	82	154455	45.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	93	1228760	47.2	
62 Toluene	92	9.131	9.131	0.0	94	832480	46.3	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	332310	44.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	86	173032	45.6	
66 Tetrachloroethene	166	9.746	9.749	-0.003	90	396917	47.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	300236	46.2	
68 2-Hexanone	43	9.899	9.896	0.003	95	105755	47.1	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	228615	47.1	
70 Ethylene Dibromide	107	10.122	10.122	0.0	97	163389	45.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	89	931671	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	838873	44.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	90	505561	47.7	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	86	307157	48.5	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	512187	47.8	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2494369	93.8	
77 o-Xylene	91	11.349	11.349	0.0	91	1206401	44.5	
78 Styrene	104	11.361	11.361	0.0	90	1002482	48.0	
79 Bromoform	173	11.534	11.534	0.0	97	141710	49.5	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1599752	44.6	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	440718	47.3	
84 Bromobenzene	156	12.034	12.034	0.0	83	374069	46.8	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	197825	47.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	146202	47.7	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1891101	43.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	93	1106731	45.5	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	1483533	49.5	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	1276480	44.2	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	1248053	45.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1429502	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	1852835	45.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	88	741813	43.5	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	96	1590958	44.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	542063	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	788140	46.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	645203	45.0	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	1483109	46.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	64	30751	42.9	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	95	618064	46.5	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	93	422987	43.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	374244	45.6	
110 Naphthalene	128	15.348	15.348	0.0	97	469783	44.0	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	356979	45.9	
S 113 1,2-Dichloroethene, Total	96				0		97.6	
S 114 Xylenes, Total	100				0		138.2	

Report Date: 12-Dec-2012 11:47:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D		
Injection Date:	12-Dec-2012 00:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	23
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 19:06

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 23:48

Lab File ID: 22S1211.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
Ethyl ether	Ave	0.2603	0.2517	0.0100	48.3	50.0	-3.3	25.0
Iodomethane	Lin1		0.6879	0.0100	52.8	50.0	5.6	25.0
Methyl acetate	Ave	0.2127	0.1450	0.0100	34.1	50.0	-31.8*	25.0
Hexane	Ave	0.8764	0.9019	0.0100	51.5	50.0	2.9	25.0
Cyclohexane	Lin1		1.057	0.0100	49.4	50.0	-1.2	25.0
Heptane	Ave	0.7351	0.6922	0.0100	47.1	50.0	-5.8	25.0
Methylcyclohexane	Ave	0.5969	0.6069	0.0100	50.8	50.0	1.7	25.0
1,3,5-Trichlorobenzene	Ave	1.226	1.140	0.0100	46.5	50.0	-7.0	25.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D
Lims ID: ICV Client ID:
Inject. Date: 12-Dec-2012 00:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 500-0014322-023
Operator: EA Instrument ID: CMS22
Purge Vol: 5.000 mL ALS Bottle#: 23
Lims Batch ID: 172615 Lims Sample ID: 23
Sublist:
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 12-Dec-2012 11:47:33 Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:47:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	327371	39.1	
2 Chloromethane	50	1.533	1.536	-0.003	89	429476	39.1	
3 Vinyl chloride	62	1.660	1.657	0.003	84	457199	46.4	
5 Bromomethane	94	2.010	2.007	0.003	91	118985	38.6	
6 Chloroethane	64	2.122	2.122	0.0	97	224822	43.6	
7 Dichlorofluoromethane	67	2.402	2.405	-0.003	84	647027	41.9	
8 Trichlorofluoromethane	101	2.434	2.443	-0.009	81	572179	44.8	
9 Ethyl ether	59	2.885	2.882	0.003	97	194347	48.3	
10 Acrolein	56	3.015	3.009	0.006	94	1253247	2043.9	
11 1,1-Dichloroethene	96	3.107	3.110	-0.003	86	294602	47.7	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.157	-0.005	86	355074	47.3	
13 Acetone	43	3.249	3.232	0.017	51	47923	48.5	
14 Iodomethane	142	3.272	3.275	-0.003	99	531238	52.8	
15 Carbon disulfide	76	3.336	3.341	-0.005	99	1057386	46.3	
16 Acetonitrile	41	3.590	3.578	0.012	100	180674	393.4	
18 Methyl acetate	43	3.682	3.677	0.005	96	111996	34.1	
19 Methylene Chloride	84	3.763	3.763	0.0	93	278131	47.2	
20 Acrylonitrile	53	4.104	4.095	0.009	96	492418	396.0	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	339636	48.9	
22 Methyl tert-butyl ether	73	4.176	4.171	0.006	88	533228	46.8	
23 Hexane	57	4.534	4.535	-0.001	95	696527	51.5	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	653007	47.7	
25 Vinyl acetate	43	4.818	4.815	0.003	100	479921	49.7	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	529268	46.7	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	84	342564	48.7	
30 2-Butanone (MEK)	43	5.528	5.523	0.005	85	64652	45.3	
31 Propionitrile	54	5.583	5.580	0.003	97	185190	413.8	

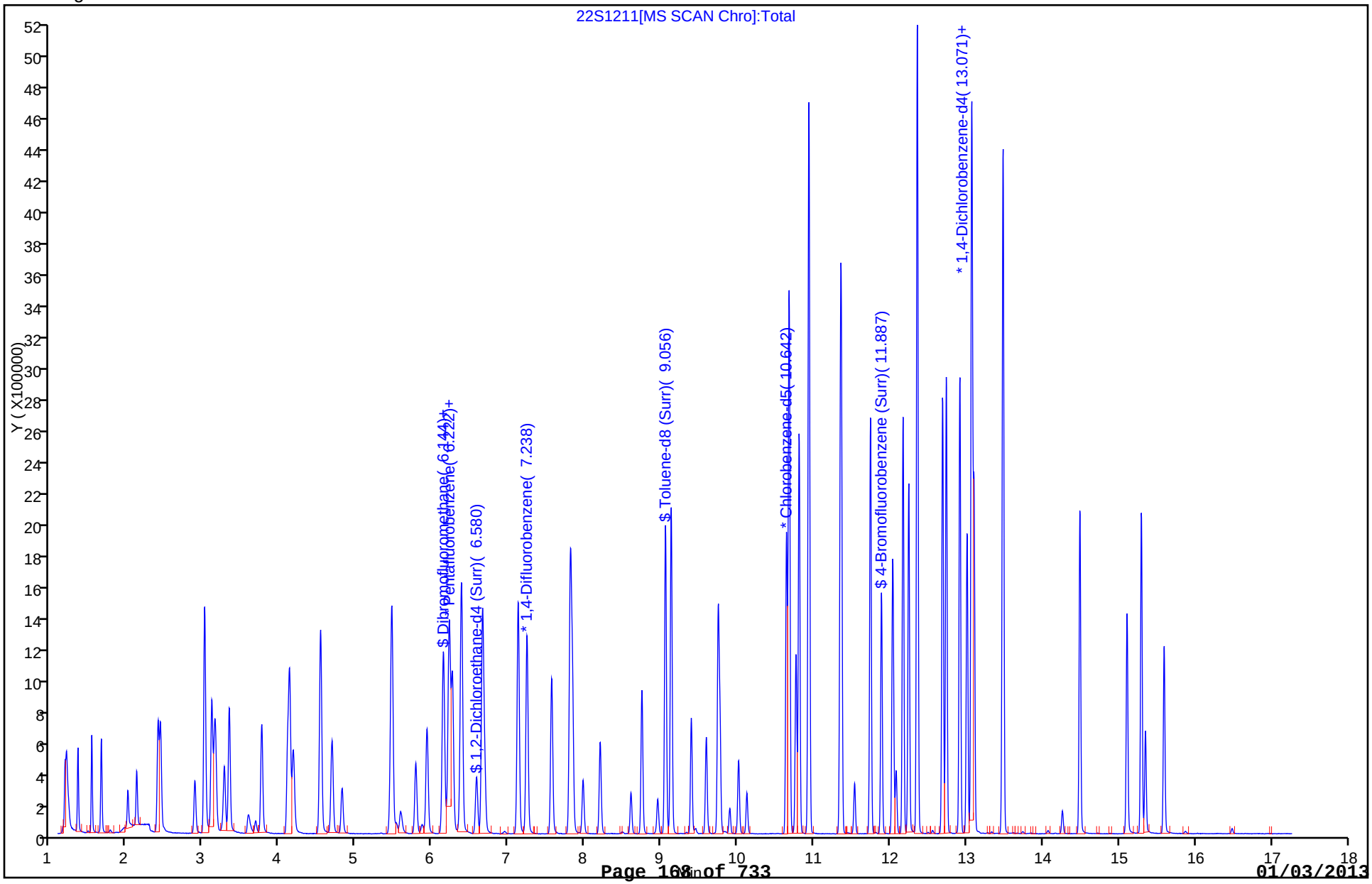
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
34 Chlorobromomethane	128	5.782	5.783	-0.001	76	126505	45.9	
35 Tetrahydrofuran	42	5.866	5.858	0.008	91	42284	47.3	
36 Chloroform	83	5.930	5.927	0.003	84	551023	48.4	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	44	290466	47.1	
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	77	563647	49.4	
40 Cyclohexane	56	6.222	6.225	-0.003	92	816640	49.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	62	772269	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	78	511673	48.1	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	86	473999	47.3	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	281098	45.8	
45 Benzene	78	6.658	6.658	0.0	97	1262249	46.7	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	356731	45.9	
48 n-Heptane	43	7.123	7.123	0.0	97	761325	47.1	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	95	1099840	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	90	353263	46.6	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	667465	50.8	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	83	326604	47.1	
54 Dibromomethane	93	7.975	7.975	0.0	90	126374	45.2	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	97	353685	44.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	105254	45.4	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	450911	50.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.954	8.952	0.002	82	154455	45.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	93	1228760	47.2	
62 Toluene	92	9.131	9.131	0.0	94	832480	46.3	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	332310	44.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	86	173032	45.6	
66 Tetrachloroethene	166	9.746	9.749	-0.003	90	396917	47.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	300236	46.2	
68 2-Hexanone	43	9.899	9.896	0.003	95	105755	47.1	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	228615	47.1	
70 Ethylene Dibromide	107	10.122	10.122	0.0	97	163389	45.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	89	931671	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	838873	44.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	90	505561	47.7	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	86	307157	48.5	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	512187	47.8	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2494369	93.8	
77 o-Xylene	91	11.349	11.349	0.0	91	1206401	44.5	
78 Styrene	104	11.361	11.361	0.0	90	1002482	48.0	
79 Bromoform	173	11.534	11.534	0.0	97	141710	49.5	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1599752	44.6	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	440718	47.3	
84 Bromobenzene	156	12.034	12.034	0.0	83	374069	46.8	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	197825	47.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	146202	47.7	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1891101	43.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	93	1106731	45.5	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	1483533	49.5	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	1276480	44.2	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	1248053	45.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1429502	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	1852835	45.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	88	741813	43.5	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	96	1590958	44.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	542063	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	788140	46.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	645203	45.0	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	1483109	46.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	64	30751	42.9	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	95	618064	46.5	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	93	422987	43.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	374244	45.6	
110 Naphthalene	128	15.348	15.348	0.0	97	469783	44.0	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	356979	45.9	
S 113 1,2-Dichloroethene, Total	96				0		97.6	
S 114 Xylenes, Total	100				0		138.2	

Report Date: 12-Dec-2012 11:47:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D		
Injection Date:	12-Dec-2012 00:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	23
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 500-173302/2 Calibration Date: 12/19/2012 01:56

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22C1218P.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	Ave	0.5420	0.5167	0.0100	47.7	50.0	-4.7	50.0
Chloromethane	Ave	0.7111	0.6689	0.1000	47.0	50.0	-5.9	50.0
Vinyl chloride	Ave	0.6381	0.6252	0.0100	49.0	50.0	-2.0	20.0
Bromomethane	Ave	0.1998	0.2368	0.0100	59.3	50.0	18.5	50.0
Chloroethane	Ave	0.3338	0.3818	0.0100	57.2	50.0	14.4	50.0
Dichlorofluoromethane	Ave	0.999	1.037	0.0100	51.9	50.0	3.8	50.0
Trichlorofluoromethane	Ave	0.8265	0.8524	0.0100	51.6	50.0	3.1	50.0
Acrolein	Ave	0.0397	0.0416	0.0010	2100	2000	4.9	50.0
1,1-Dichloroethene	Ave	0.4001	0.3940	0.0100	49.2	50.0	-1.5	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4862	0.4711	0.0100	48.5	50.0	-3.1	50.0
Acetone	Ave	0.0639	0.0670	0.0100	52.4	50.0	4.8	50.0
Carbon disulfide	Ave	1.480	1.435	0.0100	48.5	50.0	-3.0	50.0
Acetonitrile	Ave	0.0297	0.0281	0.0010	378	400	-5.4	50.0
Methylene Chloride	Ave	0.3812	0.3729	0.0100	48.9	50.0	-2.2	50.0
Acrylonitrile	Ave	0.0805	0.0830	0.0010	412	400	3.1	50.0
trans-1,2-Dichloroethene	Ave	0.4499	0.4420	0.0100	49.1	50.0	-1.8	50.0
Methyl tert-butyl ether	Ave	0.7369	0.7118	0.0100	48.3	50.0	-3.4	50.0
1,1-Dichloroethane	Ave	0.8857	0.8709	0.1000	49.2	50.0	-1.7	50.0
Vinyl acetate	Ave	0.6255	0.4052	0.0100	32.4	50.0	-35.2	50.0
2,2-Dichloropropane	Ave	0.7341	0.6316	0.0100	43.0	50.0	-14.0	50.0
cis-1,2-Dichloroethene	Ave	0.4554	0.4609	0.0100	50.6	50.0	1.2	50.0
2-Butanone (MEK)	Ave	0.0924	0.0879	0.0100	47.5	50.0	-4.9	50.0
Propionitrile	Ave	0.0203	0.0206	0.0010	405	400	1.2	50.0
Bromochloromethane	Ave	0.1785	0.1701	0.0100	47.6	50.0	-4.7	50.0
Tetrahydrofuran	Ave	0.0578	0.0592	0.0100	51.1	50.0	2.3	50.0
Chloroform	Ave	0.7375	0.7193	0.0100	48.8	50.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	0.7394	0.6875	0.0100	46.5	50.0	-7.0	50.0
Carbon tetrachloride	Ave	0.4834	0.4040	0.0100	41.8	50.0	-16.4	50.0
1,1-Dichloropropene	Ave	0.6488	0.6374	0.0100	49.1	50.0	-1.8	50.0
Benzene	Ave	1.229	1.178	0.0100	47.9	50.0	-4.2	50.0
1,2-Dichloroethane	Ave	0.3536	0.3438	0.0100	48.6	50.0	-2.8	50.0
Trichloroethene	Ave	0.3450	0.3278	0.0100	47.5	50.0	-5.0	50.0
1,2-Dichloropropane	Ave	0.3152	0.3066	0.0100	48.6	50.0	-2.7	20.0
Dibromomethane	Ave	0.1271	0.1216	0.0100	47.8	50.0	-4.3	50.0
Bromodichloromethane	Ave	0.3600	0.3430	0.0100	47.6	50.0	-4.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1054	0.1053	0.0100	50.0	50.0	-0.0	50.0
cis-1,3-Dichloropropene	Ave	0.4091	0.3762	0.0100	46.0	50.0	-8.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1536	0.1471	0.0100	47.9	50.0	-4.2	50.0
Toluene	Ave	0.8177	0.7893	0.0100	48.3	50.0	-3.5	20.0
trans-1,3-Dichloropropene	Ave	0.3392	0.3030	0.0100	44.7	50.0	-10.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 500-173302/2 Calibration Date: 12/19/2012 01:56

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22C1218P.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
1,1,2-Trichloroethane	Ave	0.1723	0.1754	0.0100	50.9	50.0	1.8	50.0
Tetrachloroethene	Ave	0.4537	0.4187	0.0100	46.1	50.0	-7.7	50.0
1,3-Dichloropropane	Ave	0.3491	0.3444	0.0100	49.3	50.0	-1.4	50.0
2-Hexanone	Ave	0.1204	0.1131	0.0100	47.0	50.0	-6.1	50.0
Dibromochloromethane	Ave	0.2603	0.2469	0.0100	47.4	50.0	-5.1	50.0
1,2-Dibromoethane	Ave	0.1651	0.1593	0.0100	48.2	50.0	-3.5	50.0
Chlorobenzene	Ave	1.012	1.001	0.3000	49.5	50.0	-1.1	50.0
1-Chlorohexane	Ave	0.6865	0.6855	0.0100	49.9	50.0	-0.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3400	0.3224	0.0100	47.4	50.0	-5.2	50.0
Ethylbenzene	Ave	0.5753	0.5768	0.0100	50.1	50.0	0.3	20.0
m&p-Xylene	Ave	1.427	1.430	0.0100	100	100	0.2	50.0
o-Xylene	Ave	1.456	1.439	0.0100	49.4	50.0	-1.2	50.0
Styrene	Ave	1.120	1.138	0.0100	50.8	50.0	1.6	50.0
Bromoform	Ave	0.1536	0.1453	0.1000	47.3	50.0	-5.4	50.0
Isopropylbenzene	Ave	3.312	3.344	0.0100	50.5	50.0	1.0	50.0
Bromobenzene	Ave	0.7374	0.7500	0.0100	50.9	50.0	1.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3844	0.3986	0.3000	51.8	50.0	3.7	50.0
1,2,3-Trichloropropane	Ave	0.2827	0.2997	0.0100	53.0	50.0	6.0	50.0
N-Propylbenzene	Ave	3.971	4.064	0.0100	51.2	50.0	2.3	50.0
4-Chlorotoluene	Ave	2.242	2.294	0.0100	51.2	50.0	2.3	50.0
1,3,5-Trimethylbenzene	Ave	2.765	2.840	0.0100	51.3	50.0	2.7	50.0
2-Chlorotoluene	Ave	2.663	2.689	0.0100	50.5	50.0	1.0	50.0
tert-Butylbenzene	Ave	2.558	2.649	0.0100	51.8	50.0	3.5	50.0
1,2,4-Trimethylbenzene	Ave	2.713	2.771	0.0100	51.1	50.0	2.1	50.0
sec-Butylbenzene	Ave	3.783	3.922	0.0100	51.8	50.0	3.7	50.0
1,3-Dichlorobenzene	Ave	1.575	1.591	0.0100	50.5	50.0	1.0	50.0
p-Isopropyltoluene	Ave	3.287	3.338	0.0100	50.8	50.0	1.6	50.0
1,4-Dichlorobenzene	Ave	1.556	1.568	0.0100	50.4	50.0	0.7	50.0
1,2-Dichlorobenzene	Ave	1.323	1.393	0.0100	52.6	50.0	5.3	50.0
n-Butylbenzene	Ave	2.919	2.903	0.0100	49.7	50.0	-0.5	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0661	0.0590	0.0100	44.6	50.0	-10.8	50.0
1,2,4-Trichlorobenzene	Ave	0.8970	0.8684	0.0100	48.4	50.0	-3.2	50.0
Hexachlorobutadiene	Ave	0.7568	0.7469	0.0100	49.3	50.0	-1.3	50.0
Naphthalene	Ave	0.9856	1.033	0.0100	52.4	50.0	4.8	50.0
1,2,3-Trichlorobenzene	Ave	0.7171	0.7330	0.0100	51.1	50.0	2.2	50.0
Dibromofluoromethane	Ave	0.3990	0.3920	0.0100	49.1	50.0	-1.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2587	0.0100	46.3	50.0	-7.4	50.0
Toluene-d8 (Surr)	Ave	1.184	1.111	0.0100	46.9	50.0	-6.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4554	0.0100	45.5	50.0	-9.0	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22C1218P.D		
Lims ID:	CCV	Client ID:	
Inject. Date:	19-Dec-2012 01:56:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV		
Misc. Info.:	500-0014440-002		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	30
Lims Batch ID:	173302	Lims Sample ID:	2
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 03:50:03	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: manzanol Date: 19-Dec-2012 02:24:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.354	0.0	88	360962	47.7	
2 Chloromethane	50	1.533	1.533	0.0	89	467280	47.0	
3 Vinyl chloride	62	1.660	1.660	0.0	84	436742	49.0	
5 Bromomethane	94	2.007	2.007	0.0	92	165403	59.3	
6 Chloroethane	64	2.122	2.122	0.0	96	266743	57.2	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	724576	51.9	
8 Trichlorofluoromethane	101	2.440	2.440	0.0	81	595466	51.6	
10 Acrolein	56	3.009	3.009	0.0	96	1163687	2097.9	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	275240	49.2	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.151	0.0	93	329140	48.5	
13 Acetone	43	3.234	3.234	0.0	83	46825	52.4	
15 Carbon disulfide	76	3.338	3.338	0.0	99	1002695	48.5	
16 Acetonitrile	41	3.578	3.578	0.0	99	157250	378.5	
19 Methylene Chloride	84	3.763	3.763	0.0	92	260545	48.9	
20 Acrylonitrile	53	4.098	4.098	0.0	97	463958	412.4	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	90	308765	49.1	
22 Methyl tert-butyl ether	73	4.170	4.170	0.0	89	497253	48.3	
24 1,1-Dichloroethane	63	4.685	4.685	0.0	85	608436	49.2	
25 Vinyl acetate	43	4.815	4.815	0.0	100	283044	32.4	
28 2,2-Dichloropropane	77	5.459	5.459	0.0	76	441264	43.0	
29 cis-1,2-Dichloroethene	96	5.470	5.470	0.0	85	321969	50.6	
30 2-Butanone (MEK)	43	5.522	5.522	0.0	86	61391	47.5	
31 Propionitrile	54	5.580	5.580	0.0	98	167613	404.8	
34 Chlorobromomethane	128	5.782	5.782	0.0	78	118812	47.6	
35 Tetrahydrofuran	42	5.860	5.860	0.0	87	41328	51.1	
36 Chloroform	83	5.927	5.927	0.0	85	502504	48.8	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	64	273867	49.1	

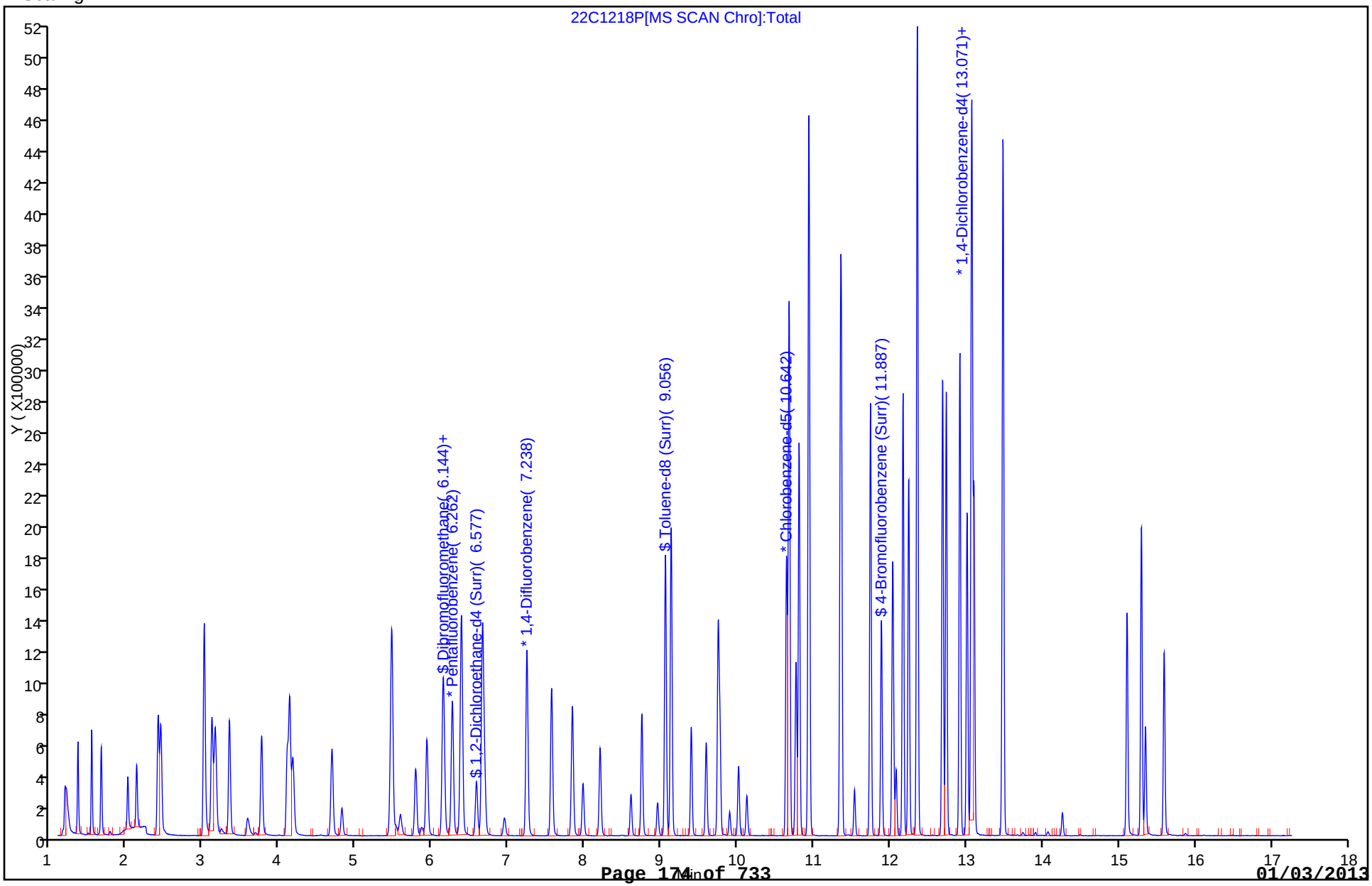
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.144	6.144	0.0	79	480323	46.5	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	91	698618	50.0	
41 Carbon tetrachloride	117	6.375	6.375	0.0	78	411023	41.8	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	86	445284	49.1	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	263203	46.3	
45 Benzene	78	6.658	6.658	0.0	98	1198506	47.9	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	349771	48.6	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	95	1017505	50.0	
50 Trichloroethene	130	7.565	7.565	0.0	89	333483	47.5	
53 1,2-Dichloropropane	63	7.837	7.837	0.0	90	311981	48.6	
54 Dibromomethane	93	7.972	7.972	0.0	89	123705	47.8	
56 Dichlorobromomethane	83	8.198	8.198	0.0	90	348974	47.6	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	91	107159	50.0	
59 cis-1,3-Dichloropropene	75	8.744	8.744	0.0	86	382766	46.0	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	84	149710	47.9	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	83	1130378	46.9	
62 Toluene	92	9.131	9.131	0.0	88	803159	48.3	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	308266	44.7	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	89	178515	50.9	
66 Tetrachloroethene	166	9.746	9.746	0.0	90	368722	46.1	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	303266	49.3	
68 2-Hexanone	43	9.896	9.896	0.0	95	99596	47.0	
69 Chlorodibromomethane	129	10.015	10.015	0.0	89	217431	47.4	
70 Ethylene Dibromide	107	10.122	10.122	0.0	98	162074	48.2	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	880613	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	94	881585	49.5	
73 1-Chlorohexane	91	10.679	10.679	0.0	90	478895	49.9	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	86	283939	47.4	
75 Ethylbenzene	106	10.806	10.806	0.0	98	507958	50.1	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2518249	100.2	
77 o-Xylene	91	11.349	11.349	0.0	92	1267392	49.4	
78 Styrene	104	11.361	11.361	0.0	90	1002322	50.8	
79 Bromoform	173	11.534	11.534	0.0	96	127947	47.3	
80 Isopropylbenzene	105	11.742	11.742	0.0	99	1677030	50.5	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	401064	45.5	
84 Bromobenzene	156	12.031	12.031	0.0	83	376118	50.9	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	74	199893	51.8	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	54	150323	53.0	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	2038368	51.2	
90 4-Chlorotoluene	91	12.242	12.242	0.0	93	1150487	51.2	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	86	1424178	51.3	
89 2-Chlorotoluene	91	12.358	12.358	0.0	93	1348515	50.5	
92 tert-Butylbenzene	119	12.690	12.690	0.0	91	1328439	51.8	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	67	1389884	51.1	
95 sec-Butylbenzene	105	12.915	12.915	0.0	91	1966936	51.8	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	96	797808	50.5	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	93	1674041	50.8	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	88	501518	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	94	786172	50.4	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	77	698520	52.6	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	1455856	49.7	
105 1,2-Dibromo-3-Chloropropane	75	14.256	14.256	0.0	56	29570	44.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.105	15.105	0.0	93	435513	48.4	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	374575	49.3	
110 Naphthalene	128	15.348	15.348	0.0	99	517948	52.4	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	367606	51.1	
S 113 1,2-Dichloroethene, Total	96				0		99.7	
S 114 Xylenes, Total	100				0		149.6	
S 115 1,3-Dichloropropene, Total	1				0		90.6	
S 116 Trihalomethanes, Total	1				0		191.1	
S 117 Trimethylbenzene, Total	1				0		102.4	

Report Date: 19-Dec-2012 03:50:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22C1218P.D		
Injection Date:	19-Dec-2012 01:56:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 500-173302/3 Calibration Date: 12/19/2012 02:22

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22D1218P.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	0.3990	0.4066	0.0100	51.0	50.0	1.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2770	0.0100	49.6	50.0	-0.8	50.0
Toluene-d8 (Surr)	Ave	1.184	1.215	0.0100	51.3	50.0	2.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4890	0.0100	48.9	50.0	-2.3	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121218-14440.b\22D1218P.D
Lims ID: CCV IX
Client ID:
Inject. Date: 19-Dec-2012 02:22:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV IX
Misc. Info.: 500-0014440-003
Operator: EA
Instrument ID: CMS22
Purge Vol: 5.000 mL
ALS Bottle#: 31
Lims Batch ID: 173302
Lims Sample ID: 3
Sublist: chrom-8260W22*sub8
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 19-Dec-2012 03:50:05
Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE
ID Type: RT Order ID
Column Type:
Column Dia:
Process Host: XAWRK023

First Level Reviewer: manzanol
Date: 19-Dec-2012 03:02:34

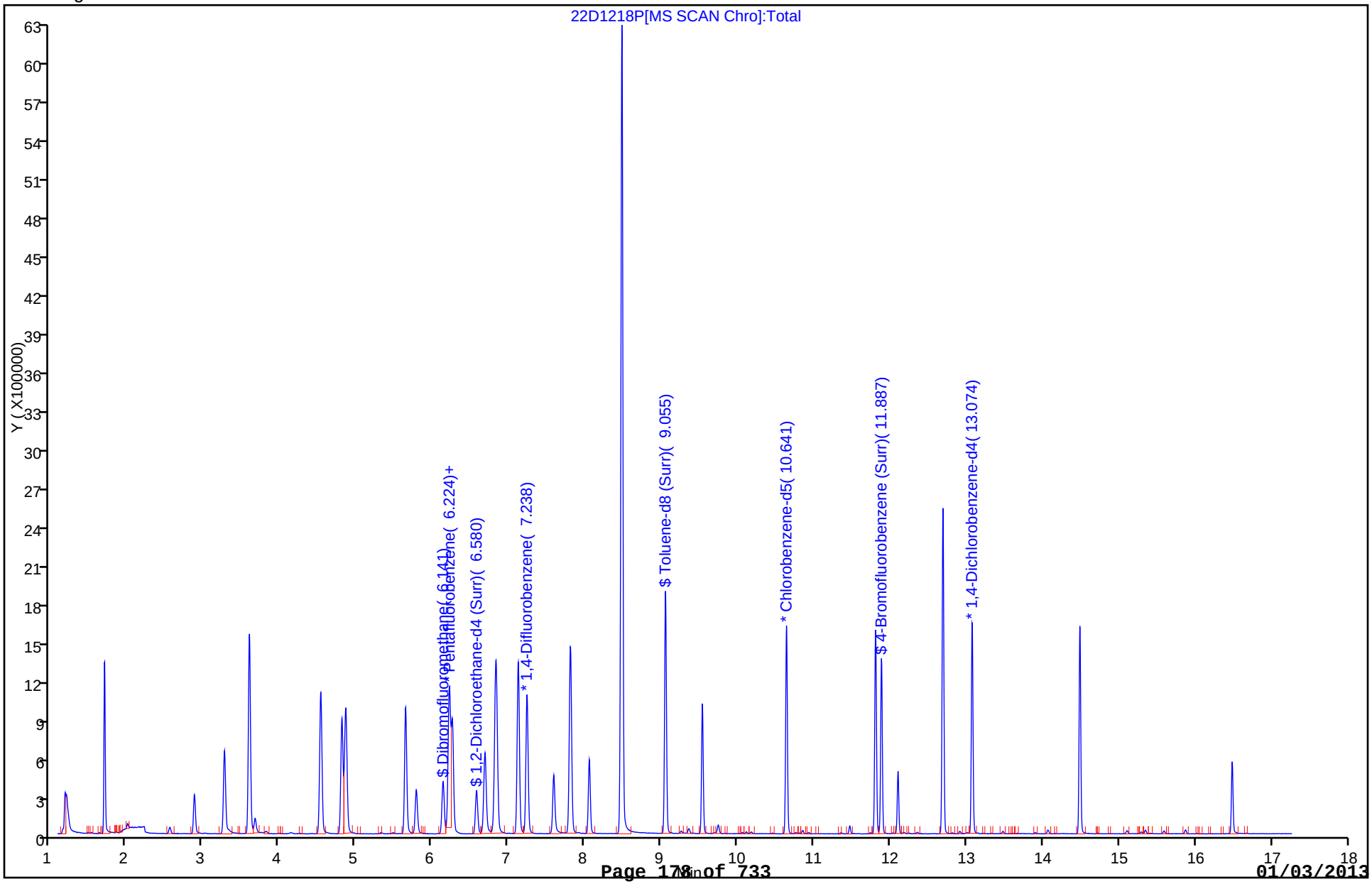
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
4 Butadiene	39	1.703	1.701	0.003	93	434290	41.2	
9 Ethyl ether	59	2.879	2.882	-0.003	98	180268	53.2	
14 Iodomethane	142	3.275	3.275	0.0	99	810051	94.0	
17 3-Chloro-1-propene	76	3.601	3.599	0.002	92	310663	97.0	
18 Methyl acetate	43	3.676	3.677	-0.001	96	143273	51.7	
23 Hexane	57	4.534	4.535	-0.001	95	585644	51.3	
26 2-Chloro-1,3-butadiene	53	4.815	4.812	0.003	93	626237	51.1	
27 Isopropyl ether	45	4.864	4.864	0.0	94	1006452	50.1	
32 Ethyl acetate	43	5.649	5.650	-0.001	98	1276160	501.2	
33 Methacrylonitrile	41	5.788	5.788	0.0	95	201556	108.6	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	58	264600	51.0	
40 Cyclohexane	56	6.224	6.225	-0.001	96	682203	49.0	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	88	650802	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	259788	49.6	
44 Isobutyl alcohol	43	6.689	6.690	-0.001	96	478116	3506.8	
47 Isooctane	57	6.834	6.831	0.003	97	1598307	50.9	
48 n-Heptane	43	7.126	7.123	0.003	96	679233	49.3	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	95	937932	50.0	
51 n-Butanol	56	7.591	7.591	0.0	93	281314	3353.6	
52 Methylcyclohexane	83	7.807	7.808	-0.001	95	575803	51.4	
55 Methyl methacrylate	41	8.056	8.056	0.0	89	311855	100.5	
57 2-Nitropropane	43	8.483	8.484	-0.001	95	4301401	4402.1	
$ 61 Toluene-d8 (Surr)	98	9.055	9.056	-0.001	95	1139457	51.3	
64 Ethyl methacrylate	69	9.538	9.538	0.0	82	412406	103.1	
* 71 Chlorobenzene-d5	117	10.641	10.642	-0.001	87	791055	50.0	
81 Cyclohexanone	55	11.809	11.809	0.0	96	625694	3009.8	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	386851	48.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 trans-1,4-Dichloro-2-butene	89	12.103	12.103	0.0	79	50080	86.8	
93 Pentachloroethane	167	12.693	12.693	0.0	87	420345	96.3	
* 98 1,4-Dichlorobenzene-d4	152	13.074	13.077	-0.003	96	406641	50.0	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	96	483540	48.5	
112 2-Methylnaphthalene	142	16.486	16.483	0.003	91	255403	46.0	

Report Date: 19-Dec-2012 03:50:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22D1218P.D		
Injection Date:	19-Dec-2012 02:22:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 500-173302/3 Calibration Date: 12/19/2012 02:22

Instrument ID: CMS22 Calib Start Date: 12/11/2012 19:06

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 23:48

Lab File ID: 22D1218P.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
Butadiene	Lin1		0.6673	0.0100	41.2	50.0	-17.5	50.0
Ethyl ether	Ave	0.2603	0.2770	0.0100	53.2	50.0	6.4	50.0
Iodomethane	Lin1		0.6224	0.0100	94.0	100	-6.0	50.0
3-Chloropropene	Ave	0.2462	0.2387	0.0100	97.0	100	-3.0	50.0
Methyl acetate	Ave	0.2127	0.2202	0.0100	51.7	50.0	3.5	50.0
Hexane	Ave	0.8764	0.8999	0.0100	51.3	50.0	2.7	50.0
2-Chloro-1,3-butadiene	Ave	0.9423	0.9623	0.0100	51.1	50.0	2.1	50.0
Isopropyl ether	Ave	1.545	1.546	0.0100	50.1	50.0	0.1	50.0
Ethyl acetate	Ave	0.1956	0.1961	0.0100	501	500	0.2	50.0
Methacrylonitrile	Ave	0.1427	0.1549	0.0100	109	100	8.6	50.0
Cyclohexane	Lin1		1.048	0.0100	49.0	50.0	-2.1	50.0
Isobutyl alcohol	Ave	0.0073	0.0064	0.0010	3510	4000	-12.3	50.0
2,2,4-Trimethylpentane	Ave	1.673	1.704	0.0100	50.9	50.0	1.9	50.0
Heptane	Ave	0.7351	0.7242	0.0100	49.3	50.0	-1.5	50.0
n-Butyl alcohol	Ave	0.0045	0.0038	0.0010	3350	4000	-16.2	50.0
Methylcyclohexane	Ave	0.5969	0.6139	0.0100	51.4	50.0	2.8	50.0
Methyl methacrylate	Ave	0.1655	0.1663	0.0100	100	100	0.5	50.0
2-Nitropropane	Ave	0.0618	0.0680	0.0100	4400	4000	10.1	50.0
Ethyl methacrylate	Ave	0.2528	0.2607	0.0100	103	100	3.1	50.0
Cyclohexanone	Ave	0.0256	0.0192	0.0100	3010	4000	-24.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0710	0.0616	0.0100	86.8	100	-13.2	50.0
Pentachloroethane	Ave	0.2758	0.2657	0.0100	96.3	100	-3.7	50.0
1,3,5-Trichlorobenzene	Ave	1.226	1.189	0.0100	48.5	50.0	-3.0	50.0
2-Methylnaphthalene	Ave	0.6831	0.6281	0.0100	46.0	50.0	-8.1	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22D1218P.D		
Lims ID:	CCV IX	Client ID:	
Inject. Date:	19-Dec-2012 02:22:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV IX		
Misc. Info.:	500-0014440-003		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	31
Lims Batch ID:	173302	Lims Sample ID:	3
Sublist:	chrom-8260W22*sub8		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 03:50:05	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: manzanol Date: 19-Dec-2012 03:02:34

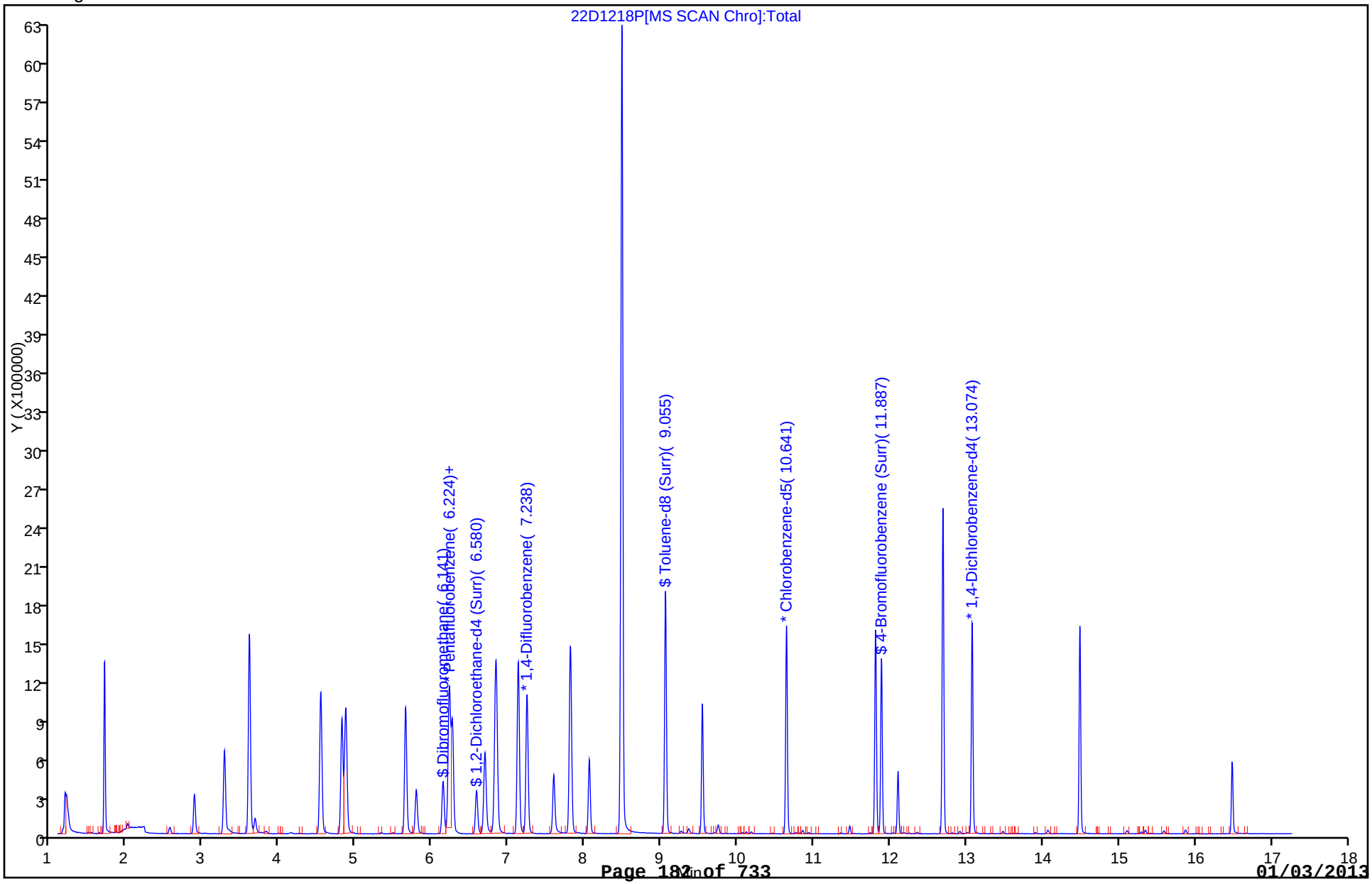
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
4 Butadiene	39	1.703	1.701	0.003	93	434290	41.2	
9 Ethyl ether	59	2.879	2.882	-0.003	98	180268	53.2	
14 Iodomethane	142	3.275	3.275	0.0	99	810051	94.0	
17 3-Chloro-1-propene	76	3.601	3.599	0.002	92	310663	97.0	
18 Methyl acetate	43	3.676	3.677	-0.001	96	143273	51.7	
23 Hexane	57	4.534	4.535	-0.001	95	585644	51.3	
26 2-Chloro-1,3-butadiene	53	4.815	4.812	0.003	93	626237	51.1	
27 Isopropyl ether	45	4.864	4.864	0.0	94	1006452	50.1	
32 Ethyl acetate	43	5.649	5.650	-0.001	98	1276160	501.2	
33 Methacrylonitrile	41	5.788	5.788	0.0	95	201556	108.6	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	58	264600	51.0	
40 Cyclohexane	56	6.224	6.225	-0.001	96	682203	49.0	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	88	650802	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	259788	49.6	
44 Isobutyl alcohol	43	6.689	6.690	-0.001	96	478116	3506.8	
47 Isooctane	57	6.834	6.831	0.003	97	1598307	50.9	
48 n-Heptane	43	7.126	7.123	0.003	96	679233	49.3	
* 49 1,4-Difluorobenzene	114	7.238	7.238	0.0	95	937932	50.0	
51 n-Butanol	56	7.591	7.591	0.0	93	281314	3353.6	
52 Methylcyclohexane	83	7.807	7.808	-0.001	95	575803	51.4	
55 Methyl methacrylate	41	8.056	8.056	0.0	89	311855	100.5	
57 2-Nitropropane	43	8.483	8.484	-0.001	95	4301401	4402.1	
$ 61 Toluene-d8 (Surr)	98	9.055	9.056	-0.001	95	1139457	51.3	
64 Ethyl methacrylate	69	9.538	9.538	0.0	82	412406	103.1	
* 71 Chlorobenzene-d5	117	10.641	10.642	-0.001	87	791055	50.0	
81 Cyclohexanone	55	11.809	11.809	0.0	96	625694	3009.8	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	386851	48.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 trans-1,4-Dichloro-2-butene	89	12.103	12.103	0.0	79	50080	86.8	
93 Pentachloroethane	167	12.693	12.693	0.0	87	420345	96.3	
* 98 1,4-Dichlorobenzene-d4	152	13.074	13.077	-0.003	96	406641	50.0	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	96	483540	48.5	
112 2-Methylnaphthalene	142	16.486	16.483	0.003	91	255403	46.0	

Report Date: 19-Dec-2012 03:50:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22D1218P.D		
Injection Date:	19-Dec-2012 02:22:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	11-Dec-2012 13:45:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	500-0014322-001		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	172615	Lims Sample ID:	1
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:47:33	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:47:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 82 BFB	95	11.884	11.884	0.0	90	82744	0	7

QC Flag Legend

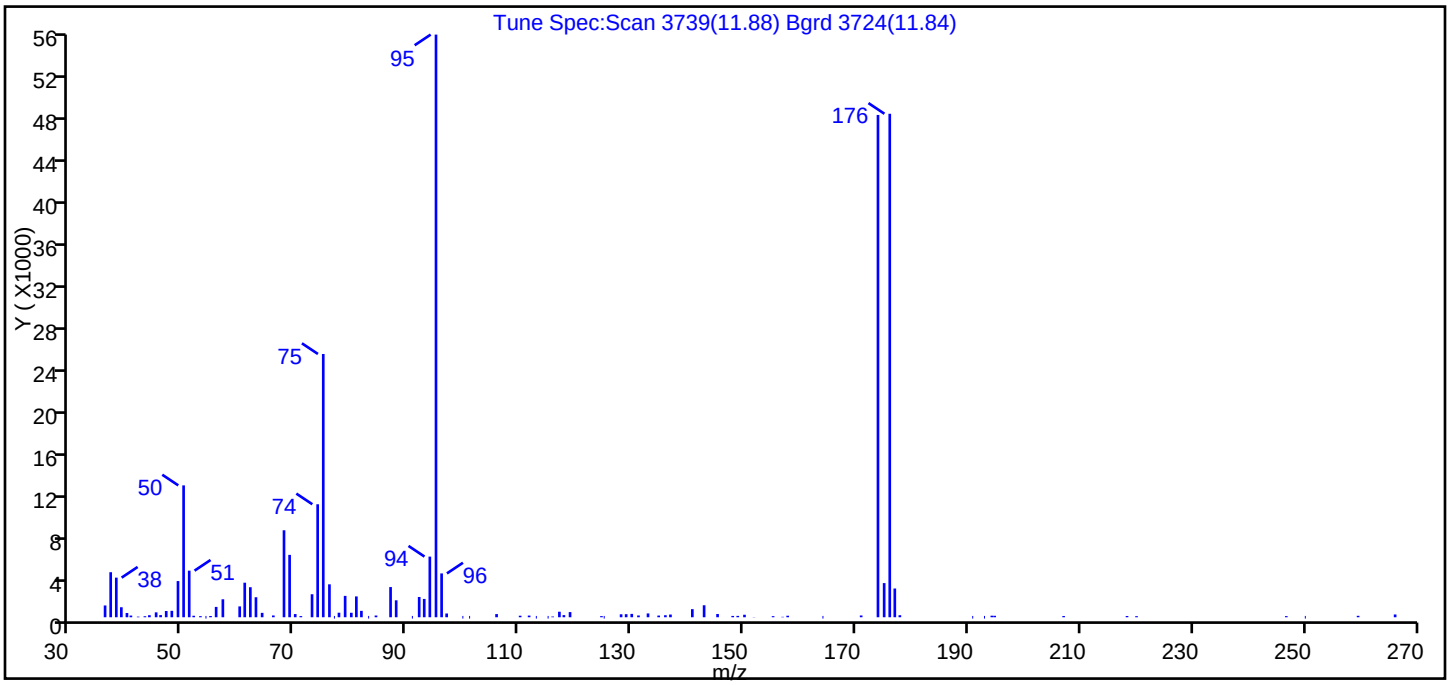
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D		
Injection Date:	11-Dec-2012 13:45:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	1
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 82 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.63
75	30.00 - 60.00% of mass 95	45.18
96	5.00 - 9.00% of mass 95	7.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	86.21
175	5.00 - 9.00% of mass 174	5.86 (6.80)
176	95.00 - 101.00% of mass 174	86.41 (100.23)
177	5.00 - 9.00% of mass 176	4.94 (5.71)

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D\8260W22.rslt\spectra.d
Injection Date: 11-Dec-2012 13:45:30
Spectrum: Tune Spec:Scan 3739(11.88) Bgrd 3724(11.84)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1121	64.10	419	97.00	358	148.90	131
37.10	4284	66.10	170	99.80	0	150.10	239
38.10	3767	68.00	8271	101.00	0	151.80	18
39.00	952	69.00	5931	105.90	303	155.20	104
40.00	405	70.00	303	110.10	146	156.90	40
40.70	161	71.00	111	111.70	161	157.80	145
42.00	58	73.00	2188	112.90	0	164.00	0
43.20	97	74.00	10744	115.00	0	170.90	169
44.00	195	75.00	25032	115.90	69	173.90	47760
45.20	467	76.10	3132	117.10	526	175.00	3249
46.00	206	76.90	0	117.90	204	176.00	47872
47.00	593	77.80	432	119.00	491	176.90	2734
48.00	612	78.90	2032	124.60	108	177.80	194
49.10	3440	80.00	427	125.00	0	190.70	0
50.10	12539	80.90	1982	128.10	282	192.80	0
51.10	4430	81.80	610	129.00	292	194.20	148
51.90	142	83.00	0	130.00	320	194.70	139
53.10	105	84.40	165	131.20	170	207.00	114
54.00	0	87.00	2871	132.90	362	218.30	117
54.90	117	88.00	1612	134.80	160	220.00	103
55.90	984	90.80	0	136.00	193	246.70	108
57.10	1710	92.10	1925	136.90	259	250.00	0
60.10	1032	93.00	1742	140.80	771	259.50	138
61.00	3285	94.00	5767	142.90	1140	266.10	265
62.00	2857	95.10	55400	145.30	309		
63.00	1903	96.10	4168	148.00	126		

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22B1218P.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	19-Dec-2012 01:18:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	500-0014440-001		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	29
Lims Batch ID:	173302	Lims Sample ID:	1
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 03:50:01	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: manzanol Date: 19-Dec-2012 01:42:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 82 BFB	95	11.887	11.887	0.0	92	79218	0	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

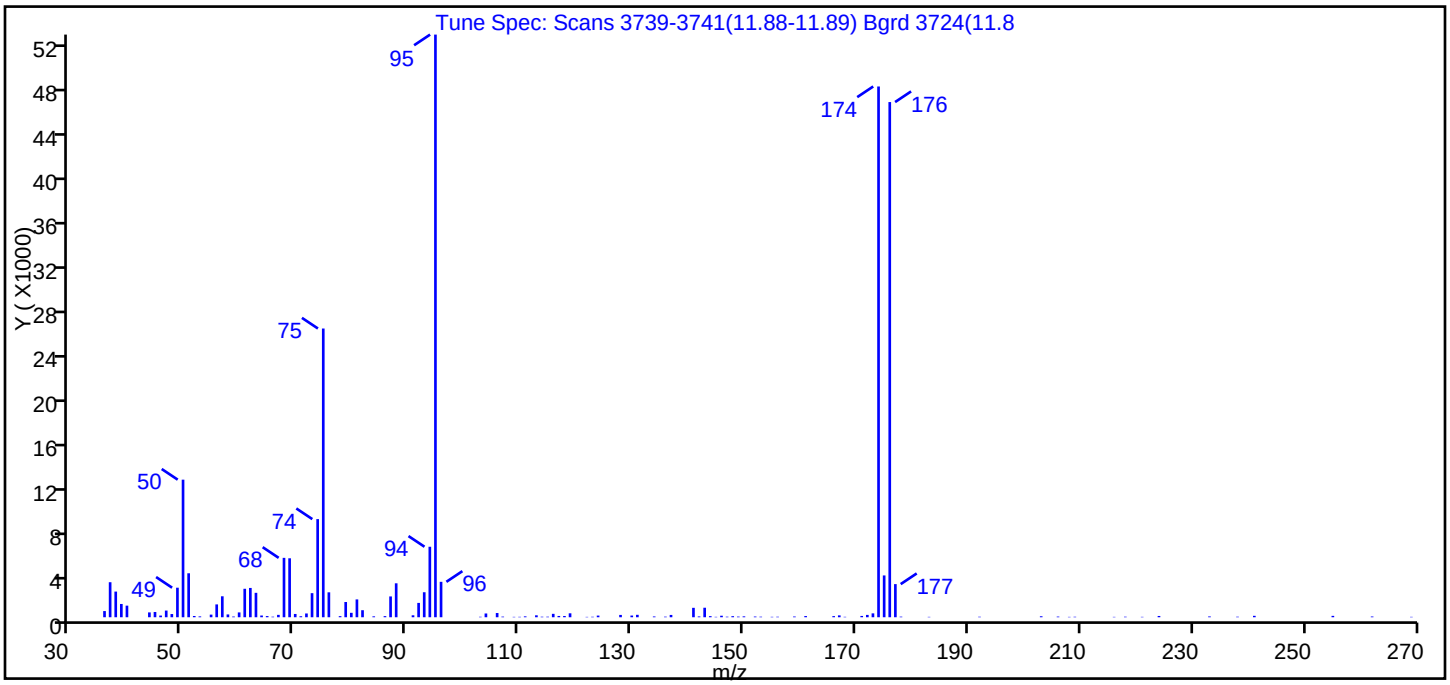
Report Date: 19-Dec-2012 03:50:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22B1218P.D		
Injection Date:	19-Dec-2012 01:18:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	1
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 82 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.61
75	30.00 - 60.00% of mass 95	49.55
96	5.00 - 9.00% of mass 95	6.08
173	Less than 2.00% of mass 174	0.67 (0.73)
174	Greater than 50.00% of mass 95	91.10
175	5.00 - 9.00% of mass 174	7.18 (7.88)
176	95.00 - 101.00% of mass 174	88.42 (97.06)
177	5.00 - 9.00% of mass 176	5.69 (6.43)

Data File: \\chi-svr07\chromdata\CMS22\20121218-14440.b\22B1218P.D\8260W22.rslt\spectra.d
Injection Date: 19-Dec-2012 01:18:30
Spectrum: Tune Spec: Scans 3739-3741(11.88-11.89) Bgrd 3724(11.8
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	552	70.00	294	114.00	49	161.00	108
37.00	3128	71.00	91	115.00	51	166.00	102
38.00	2292	72.00	338	116.00	306	167.00	168
39.00	1186	73.00	2151	117.00	115	168.00	39
40.00	1036	74.00	8761	118.00	111	171.00	118
44.00	433	75.00	25776	119.00	353	172.00	210
45.00	470	76.00	2226	122.00	34	173.00	348
46.00	151	78.00	99	123.00	44	174.00	47384
47.00	597	79.00	1361	124.00	150	175.00	3733
48.00	287	80.00	396	128.00	208	176.00	45992
49.00	2638	81.00	1593	130.00	153	177.00	2959
50.00	12283	82.00	629	131.00	218	178.00	55
51.00	3926	84.00	81	134.00	71	183.00	36
52.00	112	86.00	101	136.00	54	192.00	47
53.00	77	87.00	1859	137.00	207	203.00	88
55.00	235	88.00	3031	141.00	842	206.00	61
56.00	1147	91.00	175	142.00	73	208.00	35
57.00	1872	92.00	1281	143.00	850	209.00	45
58.00	252	93.00	2233	144.00	98	216.00	35
59.00	64	94.00	6294	145.00	37	218.00	49
60.00	431	95.00	52016	146.00	137	221.00	37
61.00	2542	96.00	3164	147.00	51	224.00	114
62.00	2617	103.00	43	148.00	96	233.00	73
63.00	2181	104.00	337	149.00	59	238.00	49
64.00	155	106.00	378	150.00	79	241.00	128
65.00	106	107.00	58	152.00	64	255.00	124
66.00	51	109.00	36	153.00	51	262.00	68
67.00	214	110.00	39	155.00	39	269.00	37
68.00	5303	111.00	79	156.00	47		
69.00	5264	113.00	174	159.00	66		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 500-173302/8
Matrix: Water
Lab File ID: 22M1218Q.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 12/19/2012 04:33
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 173302
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-125
2037-26-5	Toluene-d8 (Surr)	98		75-120
460-00-4	4-Bromofluorobenzene (Surr)	91		75-120
1868-53-7	Dibromofluoromethane	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22M1218Q.D		
Lims ID:	MB	Client ID:	
Inject. Date:	19-Dec-2012 04:33:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	500-0014440-008		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	36
Lims Batch ID:	173302	Lims Sample ID:	8
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	19-Dec-2012 10:45:44	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK023		

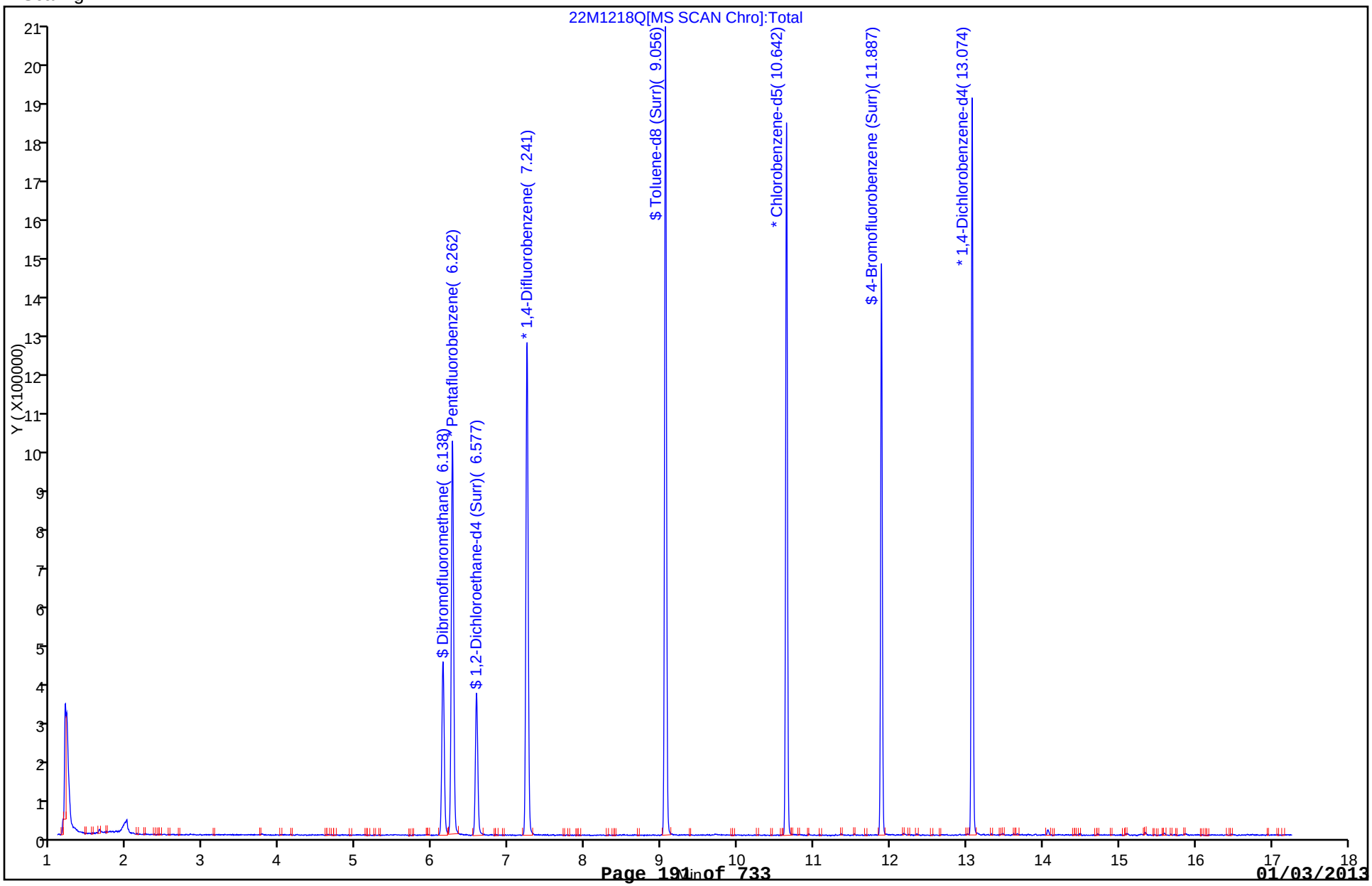
First Level Reviewer: alikpalae Date: 19-Dec-2012 10:45:44

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	66	298349	45.5	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	820970	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	280245	45.0	
* 49 1,4-Difluorobenzene	114	7.241	7.238	0.003	95	1115473	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	85	1296304	49.1	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	89	922121	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	419535	45.4	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	473802	50.0	

Report Date: 19-Dec-2012 10:45:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22M1218Q.D		
Injection Date:	19-Dec-2012 04:33:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	8
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 500-173302/4
Matrix: Water
Lab File ID: 22S1218P.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 12/19/2012 02:48
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 173302
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	45.2		0.50	0.074
156-60-5	trans-1,2-Dichloroethene	46.7		1.0	0.25
156-59-2	cis-1,2-Dichloroethene	46.7		1.0	0.12
100-41-4	Ethylbenzene	45.4		0.50	0.13
79-01-6	Trichloroethene	45.2		0.50	0.19
127-18-4	Tetrachloroethene	44.9		1.0	0.17
108-88-3	Toluene	45.4		0.50	0.11
75-01-4	Vinyl chloride	40.4		0.50	0.10
1330-20-7	Xylenes, Total	133		1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane	103		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121218-14440.b\22S1218P.D
Lims ID: LCS
Client ID:
Inject. Date: 19-Dec-2012 02:48:30
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.: 500-0014440-004
Operator: EA
Instrument ID: CMS22
Purge Vol: 5.000 mL
ALS Bottle#: 32
Lims Batch ID: 173302
Lims Sample ID: 4
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121218-14440.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 19-Dec-2012 10:42:13
Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE
ID Type: RT Order ID
Column Type:
Column Dia:
Process Host: XAWRK023

First Level Reviewer: manzanol
Date: 19-Dec-2012 03:09:22

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.354	-0.003	87	194160	25.7	
2 Chloromethane	50	1.533	1.533	0.0	89	315665	31.8	
3 Vinyl chloride	62	1.660	1.660	0.0	84	359628	40.4	
5 Bromomethane	94	2.007	2.007	0.0	91	140869	50.6	
6 Chloroethane	64	2.122	2.122	0.0	96	212845	45.7	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	83	577309	41.4	
8 Trichlorofluoromethane	101	2.440	2.440	0.0	81	506717	44.0	
9 Ethyl ether	59	2.879	2.882	-0.003	98	187450	51.6	
10 Acrolein	56	3.009	3.009	0.0	94	1228712	2219.5	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	247058	44.3	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.154	3.151	0.003	82	317517	46.8	
13 Acetone	43	3.237	3.234	0.003	93	40507	45.4	
14 Iodomethane	142	3.275	3.275	0.0	99	439234	48.5	
15 Carbon disulfide	76	3.339	3.338	0.001	99	803712	38.9	
16 Acetonitrile	41	3.581	3.578	0.003	95	168156	405.5	
18 Methyl acetate	43	3.677	3.677	0.0	98	95517	32.2	
19 Methylene Chloride	84	3.763	3.763	0.0	91	245053	46.1	
20 Acrylonitrile	53	4.098	4.098	0.0	99	489188	435.7	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	93	293319	46.7	
22 Methyl tert-butyl ether	73	4.173	4.170	0.003	89	547095	53.2	
23 Hexane	57	4.537	4.535	0.002	96	591803	48.4	
24 1,1-Dichloroethane	63	4.685	4.685	0.0	86	563108	45.6	
25 Vinyl acetate	43	4.815	4.815	0.0	99	371529	42.6	
28 2,2-Dichloropropane	77	5.465	5.459	0.006	71	422491	41.3	
29 cis-1,2-Dichloroethene	96	5.473	5.470	0.003	84	296550	46.7	
30 2-Butanone (MEK)	43	5.525	5.522	0.003	88	60491	46.9	
31 Propionitrile	54	5.580	5.580	0.0	96	170917	422.1	
34 Chlorobromomethane	128	5.783	5.782	0.001	89	128632	51.7	

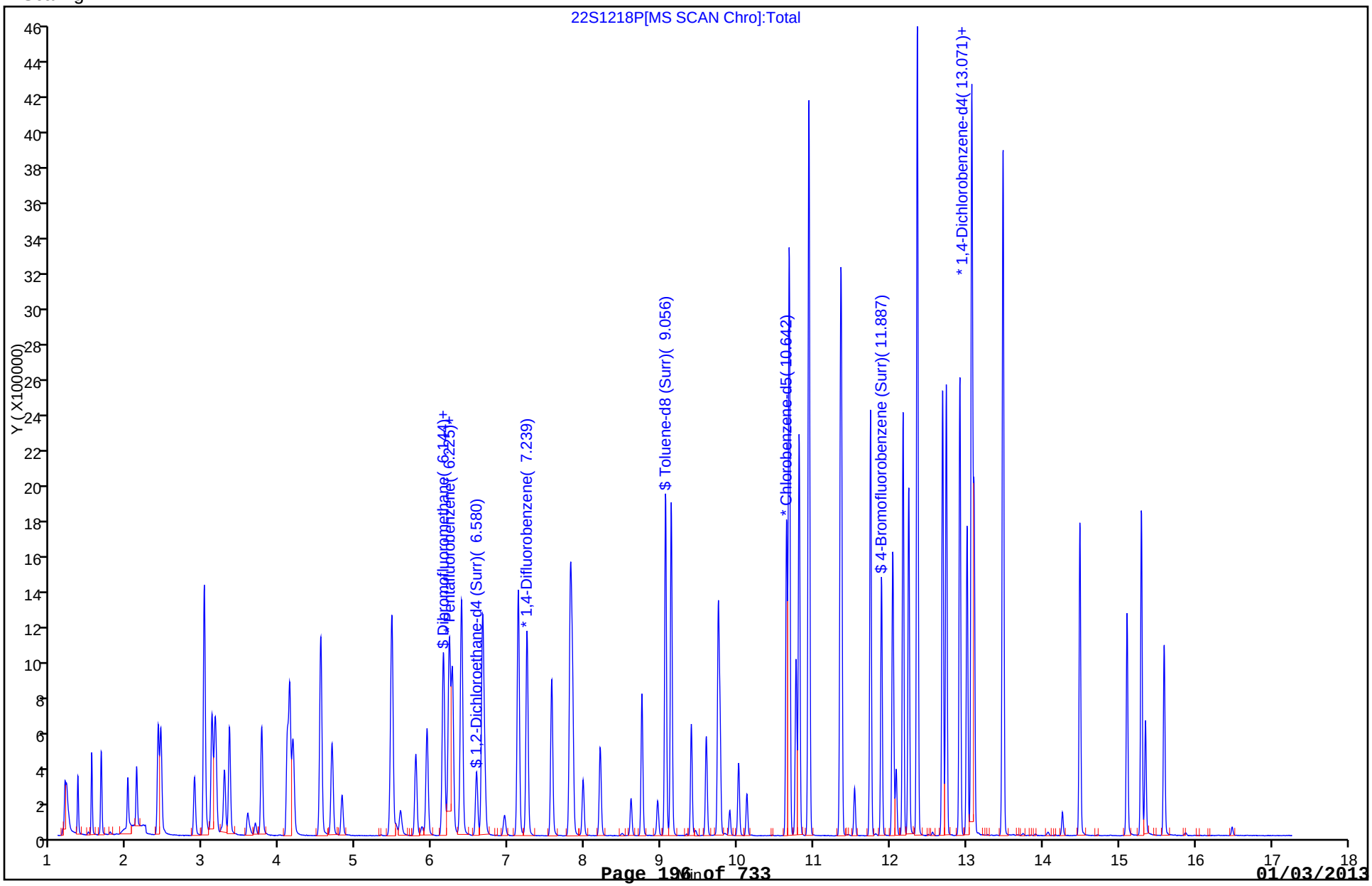
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
35 Tetrahydrofuran	42	5.866	5.860	0.006	82	35427	43.9	
36 Chloroform	83	5.927	5.927	0.0	83	487297	47.4	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	49	286011	51.4	
38 1,1,1-Trichloroethane	97	6.147	6.144	0.003	86	468684	45.5	
40 Cyclohexane	56	6.222	6.225	-0.003	96	658686	44.0	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	83	697265	50.0	
41 Carbon tetrachloride	117	6.378	6.375	0.003	79	395081	41.1	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	87	406019	44.9	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	275798	49.6	
45 Benzene	78	6.658	6.658	0.0	97	1106985	45.2	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	313456	44.5	
48 n-Heptane	43	7.126	7.123	0.003	96	689495	47.1	
* 49 1,4-Difluorobenzene	114	7.239	7.238	0.001	95	995163	50.0	
50 Trichloroethene	130	7.565	7.565	0.0	90	310524	45.2	
52 Methylcyclohexane	83	7.811	7.808	0.003	93	562222	47.3	
53 1,2-Dichloropropane	63	7.837	7.837	0.001	87	295944	47.2	
54 Dibromomethane	93	7.975	7.972	0.003	86	114001	45.1	
56 Dichlorobromomethane	83	8.201	8.198	0.003	90	313913	43.8	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	92	83752	39.9	
59 cis-1,3-Dichloropropene	75	8.747	8.744	0.003	86	380142	46.7	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	80	138334	45.2	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	74	1169362	49.6	
62 Toluene	92	9.131	9.131	0.0	94	739157	45.4	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	92	280770	41.6	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	156462	45.6	
66 Tetrachloroethene	166	9.746	9.746	0.0	90	351482	44.9	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	276969	46.0	
68 2-Hexanone	43	9.899	9.896	0.003	95	90838	43.7	
69 Chlorodibromomethane	129	10.015	10.015	0.0	87	194813	43.4	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	145145	44.2	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	862112	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	93	753013	43.2	
73 1-Chlorohexane	91	10.682	10.679	0.003	87	520705	54.4	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	84	254079	43.3	
75 Ethylbenzene	106	10.806	10.806	0.0	98	450584	45.4	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2219447	90.2	
77 o-Xylene	91	11.349	11.349	0.0	91	1065875	42.4	
78 Styrene	104	11.364	11.361	0.003	93	890772	46.1	
79 Bromoform	173	11.534	11.534	0.0	98	113913	43.0	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1420010	43.3	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	412712	47.8	
84 Bromobenzene	156	12.034	12.031	0.003	92	342651	46.9	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	80	180767	47.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	51	133785	47.8	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1679388	42.7	
90 4-Chlorotoluene	91	12.245	12.242	0.003	92	973356	43.9	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	87	1308911	47.8	
89 2-Chlorotoluene	91	12.358	12.358	0.0	90	1115090	42.3	
92 tert-Butylbenzene	119	12.690	12.690	0.0	91	1120963	44.3	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1255705	46.8	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	1654509	44.2	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	85	664910	42.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
97 4-Isopropyltoluene	119	13.068	13.068	0.0	93	1405997	43.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	494914	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	704596	45.8	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	75	590582	45.1	
101 n-Butylbenzene	91	13.484	13.481	0.003	96	1292078	44.7	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.256	0.003	63	26631	40.7	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	94	534237	44.0	
108 1,2,4-Trichlorobenzene	180	15.105	15.105	0.0	93	373778	42.1	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	330229	44.1	
110 Naphthalene	128	15.348	15.348	0.0	99	460833	47.2	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	318829	44.9	
S 113 1,2-Dichloroethene, Total	96				0		93.4	
S 114 Xylenes, Total	100				0		132.6	

Report Date: 19-Dec-2012 10:42:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121218-14440.b\22S1218P.D		
Injection Date:	19-Dec-2012 02:48:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	173302	Lims Sample ID:	4
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: CMS22 Start Date: 12/11/2012 13:45

Analysis Batch Number: 172615 End Date: 12/12/2012 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-172615/1		12/11/2012 13:45	1	22B1211.D	DB624 0.2(mm)
STD01 500-172615/2 IC		12/11/2012 14:23	1	22I1211A.D	DB624 0.2(mm)
STD02 500-172615/3 IC		12/11/2012 14:51	1	22I1211B.D	DB624 0.2(mm)
STD03 500-172615/4 IC		12/11/2012 15:20	1	22I1211C.D	DB624 0.2(mm)
STD04 500-172615/5 IC		12/11/2012 15:48	1	22I1211D.D	DB624 0.2(mm)
STD05 500-172615/6 IC		12/11/2012 16:16	1	22I1211E.D	DB624 0.2(mm)
STD06 500-172615/7 ICIS		12/11/2012 16:44	1	22I1211F.D	DB624 0.2(mm)
STD07 500-172615/8 IC		12/11/2012 17:13	1	22I1211G.D	DB624 0.2(mm)
STD08 500-172615/9 IC		12/11/2012 17:41	1	22I1211H.D	DB624 0.2(mm)
STD09 500-172615/10 IC		12/11/2012 18:09	1	22I1211I.D	DB624 0.2(mm)
STD02AP 500-172615/12 IC		12/11/2012 19:06	1		DB624 0.2(mm)
STD05AP 500-172615/15 IC		12/11/2012 20:30	1		DB624 0.2(mm)
STD06AP 500-172615/16 IC		12/11/2012 20:59	1		DB624 0.2(mm)
STD07AP 500-172615/17 IC		12/11/2012 21:27	1		DB624 0.2(mm)
STD08AP 500-172615/18 IC		12/11/2012 21:55	1		DB624 0.2(mm)
STD09AP 500-172615/19 IC		12/11/2012 22:24	1		DB624 0.2(mm)
STD03AP 500-172615/21 IC		12/11/2012 23:20	1		DB624 0.2(mm)
STD04AP 500-172615/22 IC		12/11/2012 23:48	1		DB624 0.2(mm)
ICV 500-172615/23		12/12/2012 00:17	1	22S1211.D	DB624 0.2(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: CMS22 Start Date: 12/19/2012 01:18

Analysis Batch Number: 173302 End Date: 12/19/2012 13:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-173302/1		12/19/2012 01:18	1	22B1218P.D	DB624 0.2(mm)
CCV 500-173302/2		12/19/2012 01:56	1	22C1218P.D	DB624 0.2(mm)
CCV 500-173302/3		12/19/2012 02:22	1	22D1218P.D	DB624 0.2(mm)
LCS 500-173302/4		12/19/2012 02:48	1	22S1218P.D	DB624 0.2(mm)
MB 500-173302/8		12/19/2012 04:33	1	22M1218Q.D	DB624 0.2(mm)
500-53234-5	TRIP BLANK	12/19/2012 05:25	1	53234-05.D	DB624 0.2(mm)
500-53234-2	VLF-MW-4	12/19/2012 05:51	1	53234-02.D	DB624 0.2(mm)
500-53234-4	OLD-MW-9	12/19/2012 06:17	1	53234-04.D	DB624 0.2(mm)
500-53234-1	VLF-MW-3	12/19/2012 06:43	50	53234-01.D	DB624 0.2(mm)
500-53234-1 DL	VLF-MW-3 DL	12/19/2012 07:09	500	53234-01A.D	DB624 0.2(mm)
500-53234-3	OLD-MW-4	12/19/2012 07:35	1	53234-03.D	DB624 0.2(mm)
500-53234-3 DL	OLD-MW-4 DL	12/19/2012 08:01	10	53234-03A.D	DB624 0.2(mm)
		12/19/2012 13:14	200		DB624 0.2(mm)

8260B

BTEX + bromobenzene + cis 1,2 DCE + TCE + PCE + VC

1 STD - whole

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: 19 12/14

Job # 500-53234

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Analytical Batch	misc info.
1	1/50	2	D	22 12/18/12	14440		173302	cis 12DCE 15950 TCE 21550
	1/500	1	D1	1	1			cis 12DCE 15000 TCE 20000 (P)
2	1	2	D	22 12/18/12	14440			~~cis 12DCE~~ 12/19/12 (P)
3	1	2	D	22 12/18/12	14440			cis 12DCE 639 TCE 284
	1/10	1	D1	1	1			cis 12DCE 680 TCE 302 (P)
4	1	2	D	22 12/18/12	14440			(P)
5 TB	1	2	D	22 12/18/12	14440			(P)

Reviewed by: [signature] Date: 1-3-13

CHI-22-20-075/D-09/11

01/03/2013

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 560-53234

Date	Time Out	Time In	ICOC Initials	Misc. Info
12/18/12	1450	1510	[illegible]	Water

CHI-22-20-074/A-0 /08

Method RSK-175

Dissolved Gases (GC) by Method RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 17dec121442-r011.d

Lab ID: LCS 200-49681/35 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	72.4	66.0	91	70-130	
Ethane	137	124	90	70-130	
Ethylene	128	120	93	70-130	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: MB 200-49681/3

Matrix: Water Date Extracted:

Lab File ID:(1) 17dec120932-r031.d Lab File ID:(2)

Date Analyzed:(1) 12/17/2012 10:03 Date Analyzed:(2)

Instrument ID:(1) 2866.i Instrument ID:(2)

GC Column:(1) RT-U-Plot 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 200-49681/35	12/17/2012 14:48	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: MB 200-49681/36

Matrix: Water Date Extracted:

Lab File ID:(1) 17dec121442-r021.d Lab File ID:(2)

Date Analyzed:(1) 12/17/2012 15:03 Date Analyzed:(2)

Instrument ID:(1) 2866.i Instrument ID:(2)

GC Column:(1) RT-U-Plot 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
VLF-MW-3	500-53234-1	12/17/2012 17:25	
OLD-MW-4	500-53234-3	12/17/2012 17:35	
OLD-MW-9	500-53234-4	12/17/2012 17:41	
VLF-MW-4	500-53234-2	12/18/2012 09:14	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Client Sample ID: VLF-MW-3 Lab Sample ID: 500-53234-1

Matrix: Water Lab File ID: 17dec121527-r191.d

Analysis Method: RSK-175 Date Collected: 12/12/2012 10:00

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 17:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	17		2.0	0.45
74-84-0	Ethane	0.84	J	4.0	0.81
74-85-1	Ethylene	0.93	J	3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53234-1
Client Smp ID: VLF-MW-3
Inj Date : 17-DEC-2012 17:25
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53234-A-1,1
Misc Info : 500-53234-A-1
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

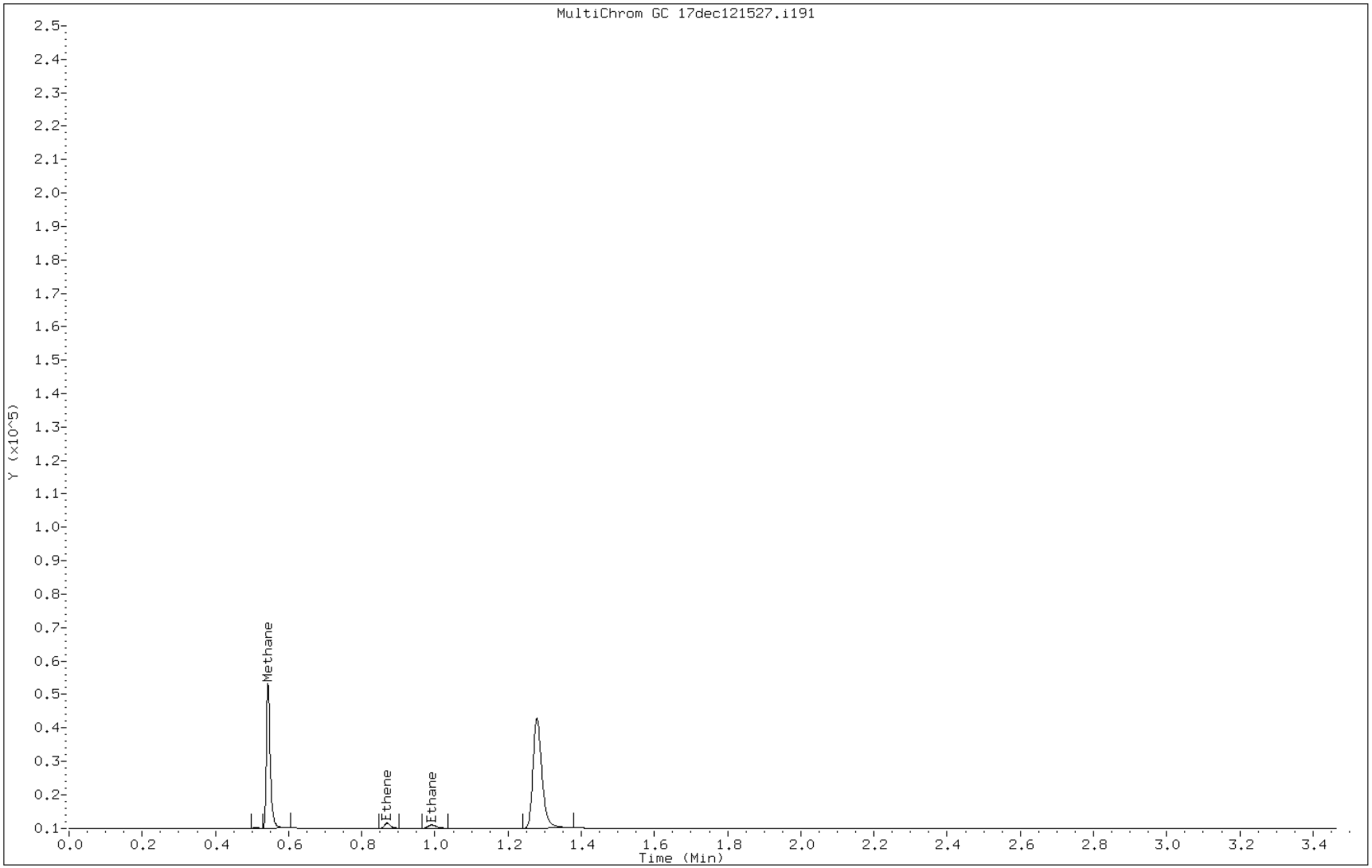
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.543	0.557	-0.014	31925	17.3344	17
2 Ethene	0.869	0.884	-0.015	1748	0.92810	0.93(a)
3 Ethane	0.991	1.006	-0.015	1592	0.84114	0.84(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121527-r191.d	Date:	17-DEC-2012 17:25
Client ID:	VLF-MW-3	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53234-A-1,1		
Lab Sample ID:	500-53234-1		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Client Sample ID: VLF-MW-4 Lab Sample ID: 500-53234-2

Matrix: Water Lab File ID: 18dec120842-r031.d

Analysis Method: RSK-175 Date Collected: 12/12/2012 12:28

Sample wt/vol: 18(mL) Date Analyzed: 12/18/2012 09:14

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	350		10	2.3
74-84-0	Ethane	4.1	U	20	4.1
74-85-1	Ethylene	3.7	U	15	3.7

TestAmerica Burlington

Lab Sample Id: 500-53234-2
Client Smp ID: VLF-MW-4
Inj Date : 18-DEC-2012 09:14
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53234-B-2,5
Misc Info : 500-53234-B-2
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

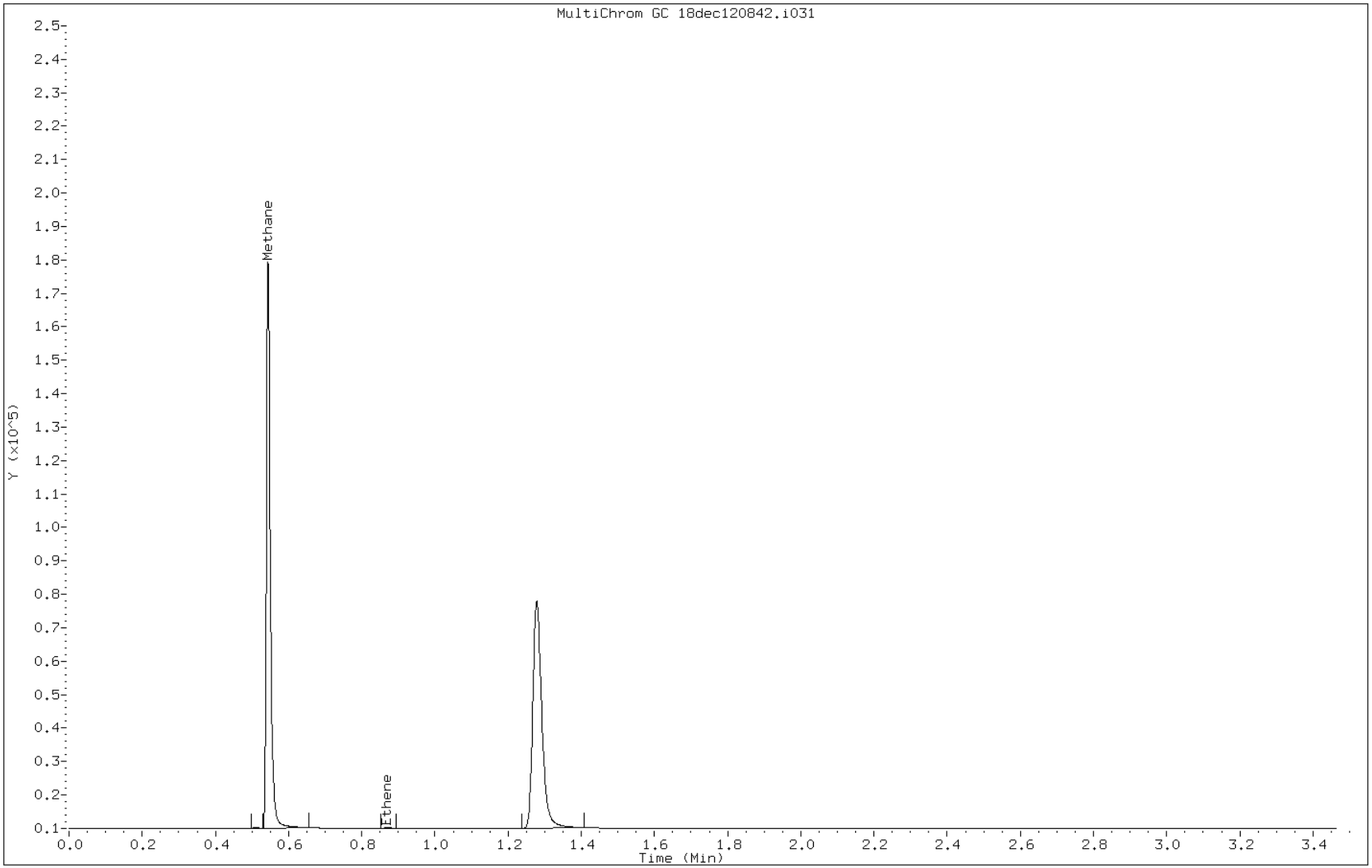
Name	Value	Description
DF	5.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.543	0.557	-0.014	127259	69.0979	350
2 Ethene	0.869	0.884	-0.015	289	0.15395	0.77(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	18dec120842-r031.d	Date:	18-DEC-2012 09:14
Client ID:	VLF-MW-4	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53234-B-2,5		
Lab Sample ID:	500-53234-2		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53234-1
SDG No.:
Client Sample ID: OLD-MW-4
Lab Sample ID: 500-53234-3
Matrix: Water
Lab File ID: 17dec121527-r211.d
Analysis Method: RSK-175
Date Collected: 12/12/2012 11:44
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 17:35
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	26		2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	3.1		3.0	0.73

TestAmerica Burlington

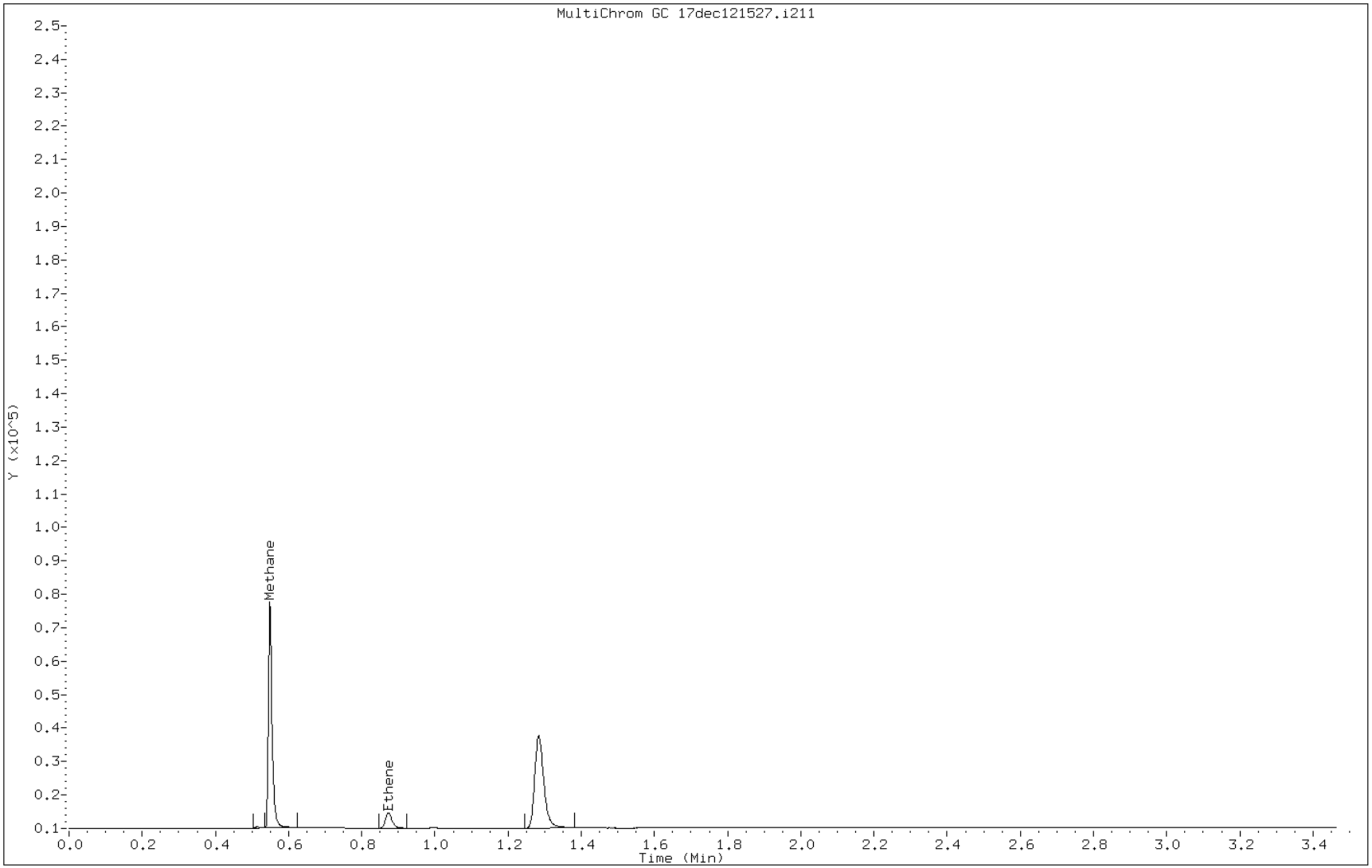
Lab Sample Id: 500-53234-3
Client Smp ID: OLD-MW-4
Inj Date : 17-DEC-2012 17:35
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53234-A-3,1
Misc Info : 500-53234-A-3
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.549	0.557	-0.008	47069	25.5572	26
2 Ethene	0.873	0.884	-0.011	5758	3.05708	3.1

Data File:	17dec121527-r211.d	Date:	17-DEC-2012 17:35
Client ID:	OLD-MW-4	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53234-A-3,1		
Lab Sample ID:	500-53234-3		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Client Sample ID: OLD-MW-9 Lab Sample ID: 500-53234-4

Matrix: Water Lab File ID: 17dec121527-r221.d

Analysis Method: RSK-175 Date Collected: 12/12/2012 14:29

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 17:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.46	J	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53234-4
Client Smp ID: OLD-MW-9
Inj Date : 17-DEC-2012 17:41
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53234-A-4,1
Misc Info : 500-53234-A-4
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

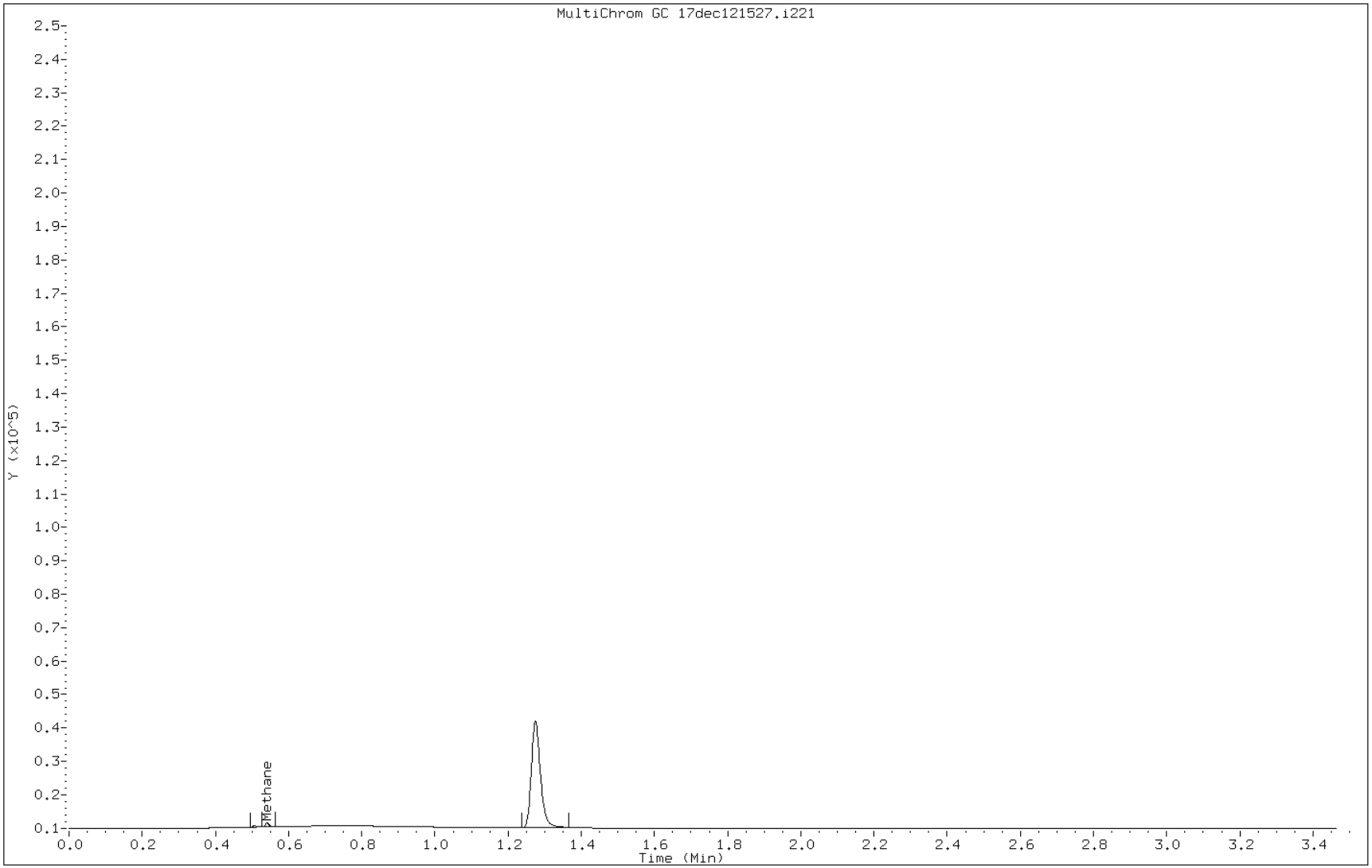
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.541	0.557	-0.016	839	0.45560	0.46(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121527-r221.d	Date:	17-DEC-2012 17:41
Client ID:	OLD-MW-9	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53234-A-4,1		
Lab Sample ID:	500-53234-4		



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Methane	0.550	0.557	0.557	0.556	0.550						0.507 - 0.607	0.554
Ethylene	0.878	0.884	0.884	0.880	0.876						0.784 - 0.984	0.880
Ethane	1.000	1.007	1.007	1.002	0.997						0.907 - 1.107	1.002

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 500-53234-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.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 3	LVL 4		B	M1	M2								
Methane	1721.2 1673.8	1873.2	1942.0	1998.4	Ave		1841.72026				7.6		30.0			
Ethylene	1798.7 1683.8	1944.2	1949.8	2041.4	Ave		1883.57600				7.5		30.0			
Ethane	1753.4 1719.4	1934.2	1999.3	2057.1	Ave		1892.69372				7.9		30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 500-53234-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Methane	Ave	2926	33718	141766	435643	607604	1.70	18.0	73.0	218	363
Ethylene	Ave	5396	62215	247625	777776	1070887	3.00	32.0	127	381	636
Ethane	Ave	5611	65764	271910	841356	1170879	3.20	34.0	136	409	681

Curve Type Legend:
Ave = Average

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r011.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:42
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:42 Cal File: 09oct121308-r011.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

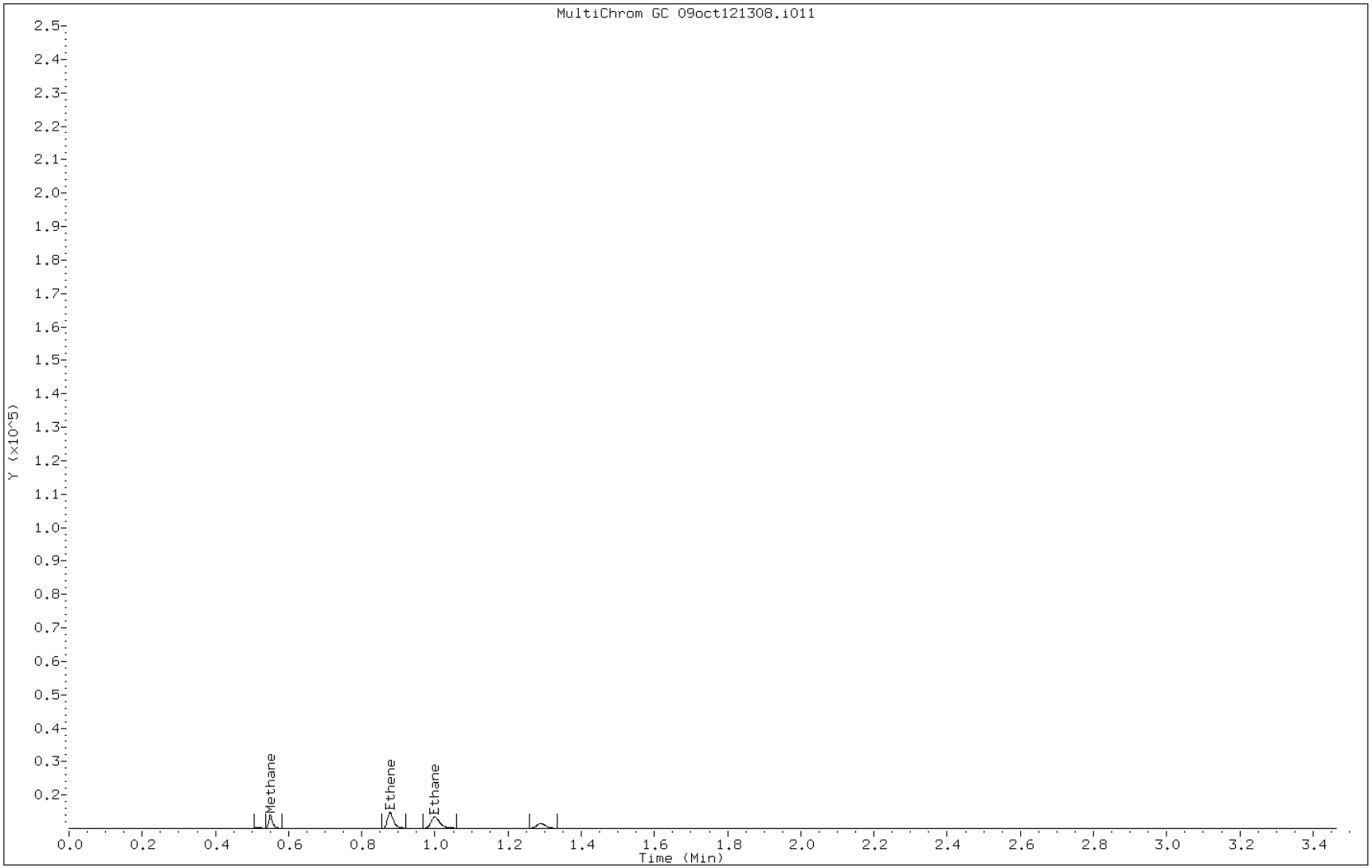
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.550	0.557	-0.007	2926	1.70000	1.6(a)
2 Ethene	0.878	0.884	-0.006	5396	3.00000	2.9(a)
3 Ethane	1.000	1.006	-0.006	5611	3.20000	3.0(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	09oct121308-r011.d	Date:	09-OCT-2012 13:42
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

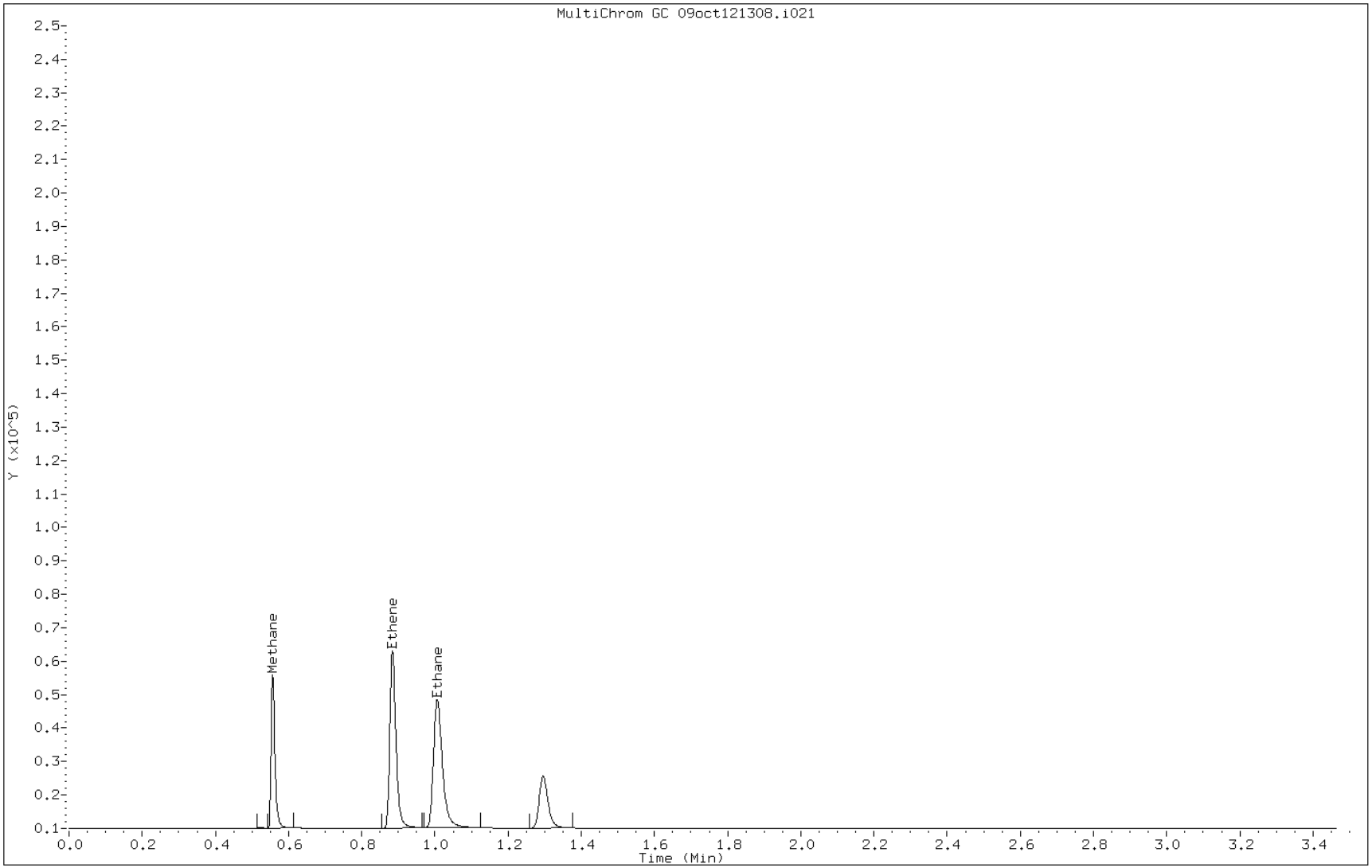
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r021.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:46
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:46 Cal File: 09oct121308-r021.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.557	0.557	0.000	33718	18.0000	18
2 Ethene	0.884	0.884	0.000	62215	32.0000	33
3 Ethane	1.006	1.006	0.000	65764	34.0000	35

Data File:	09oct121308-r021.d	Date:	09-OCT-2012 13:46
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

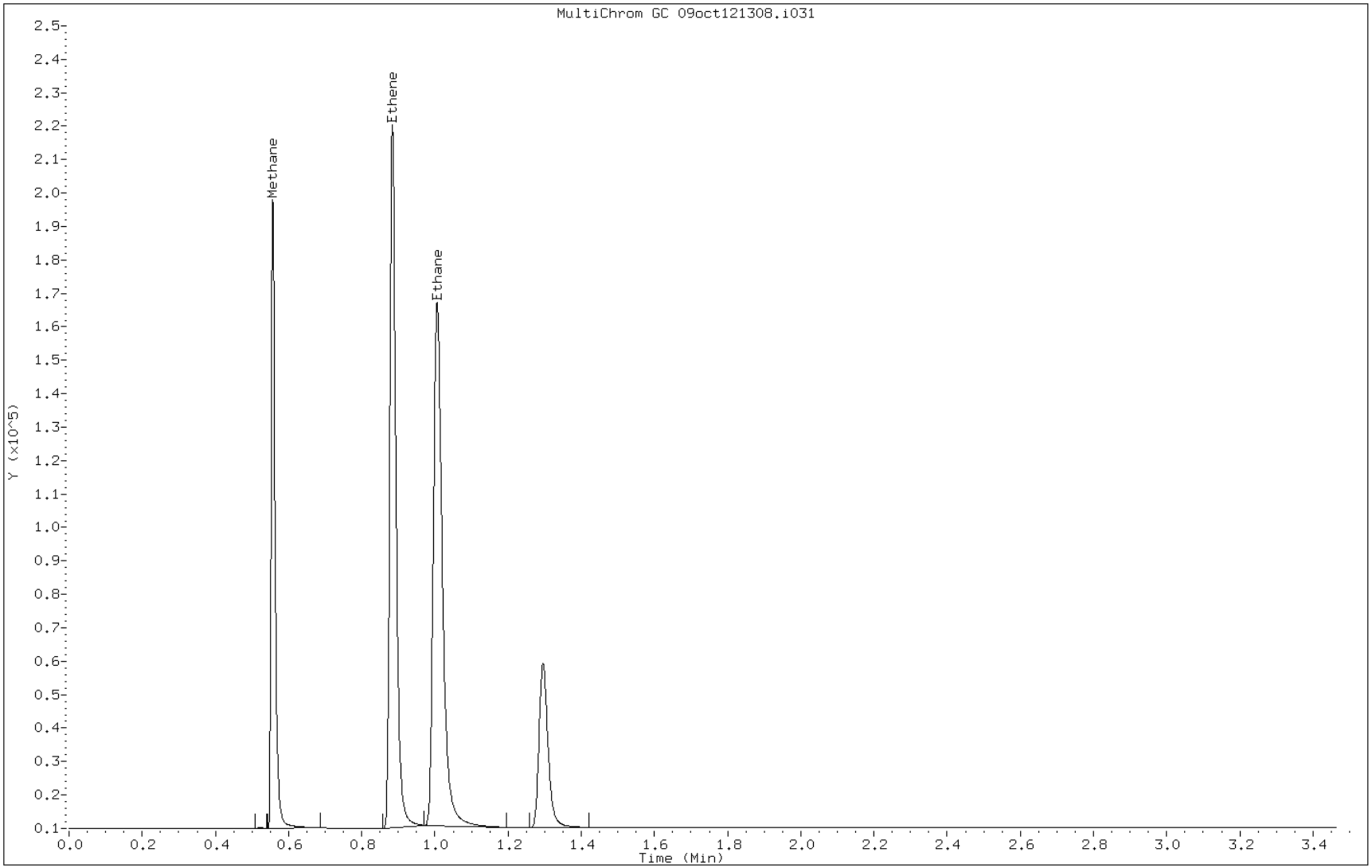
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r031.d
Lab Smp Id: ICRT
Inj Date : 09-OCT-2012 13:51
Operator : TFS Inst ID: 2866_1.i
Smp Info : ICRT,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 10-Oct-2012 09:18 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.557	0.557	0.000	141766	73.0000	77
2 Ethene	0.884	0.884	0.000	247625	127.000	130
3 Ethane	1.006	1.006	0.000	271910	136.000	140

Data File:	09oct121308-r031.d	Date:	09-OCT-2012 13:51
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	ICRT,1		
Lab Sample ID:	ICRT		



TestAmerica Burlington

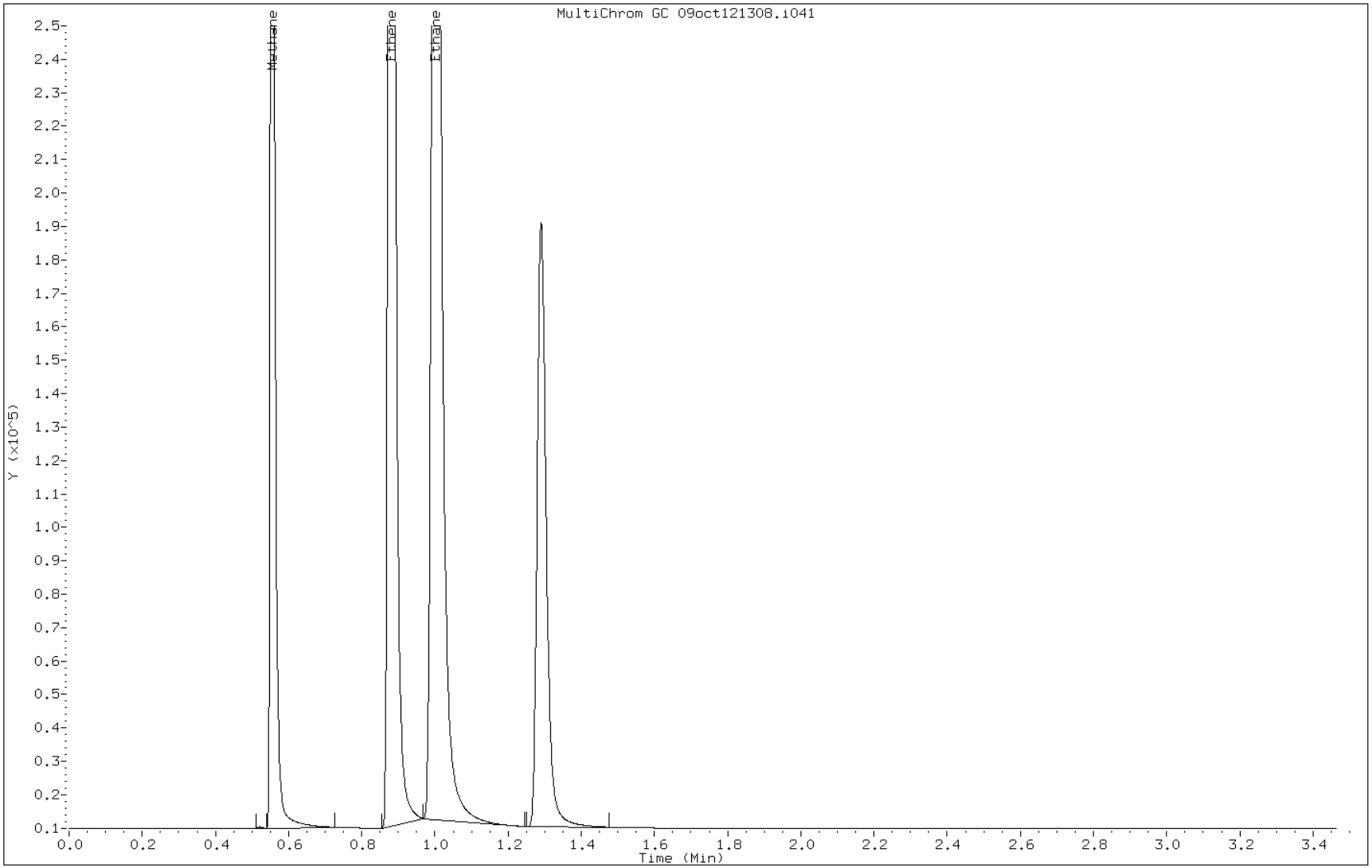
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r041.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:57
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:57 Cal File: 09oct121308-r041.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.556	0.557	-0.001	435643	218.000	230
2 Ethene	0.880	0.884	-0.004	777776	381.000	400
3 Ethane	1.002	1.006	-0.004	841356	409.000	430

Data File:	09oct121308-r041.d	Date:	09-OCT-2012 13:57
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

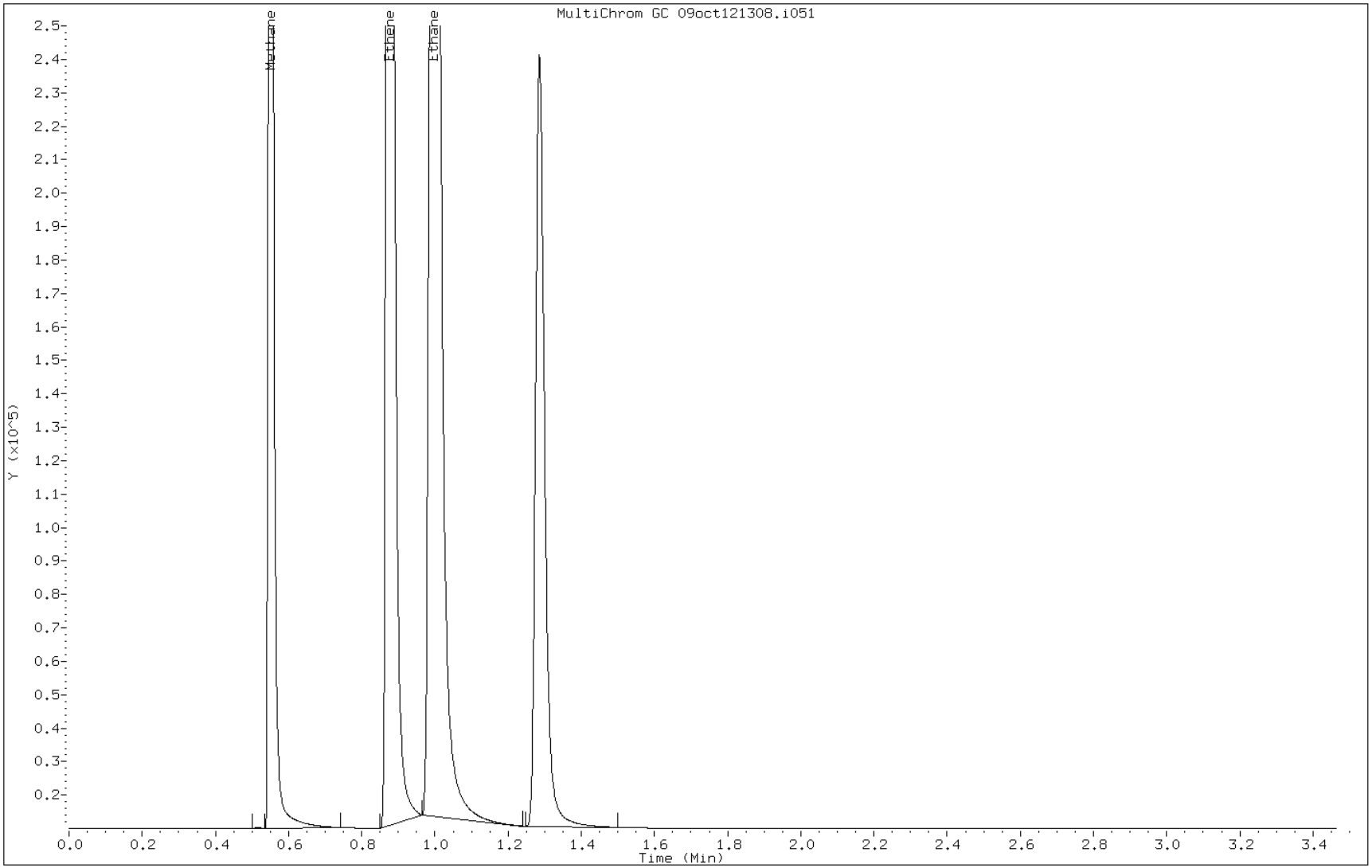
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r051.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 14:02
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 14:02 Cal File: 09oct121308-r051.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.550	0.557	-0.007	607604	363.000	330
2 Ethene	0.876	0.884	-0.008	1070887	636.000	570
3 Ethane	0.997	1.006	-0.009	1170879	681.000	620

Data File:	09oct121308-r051.d	Date:	09-OCT-2012 14:02
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICV 200-46202/6 Calibration Date: 10/09/2012 14:07

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 09oct121308-r061.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	1842	1886		74.1	72.4	2.4	30.0
Ethylene	Ave	1884	1854		126	128	-1.6	30.0
Ethane	Ave	1893	1878		136	137	-0.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICV 200-46202/6 Calibration Date: 10/09/2012 14:07

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 09oct121308-r061.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.56	0.51	0.61
Ethylene	0.89	0.78	0.98
Ethane	1.01	0.91	1.11

TestAmerica Burlington

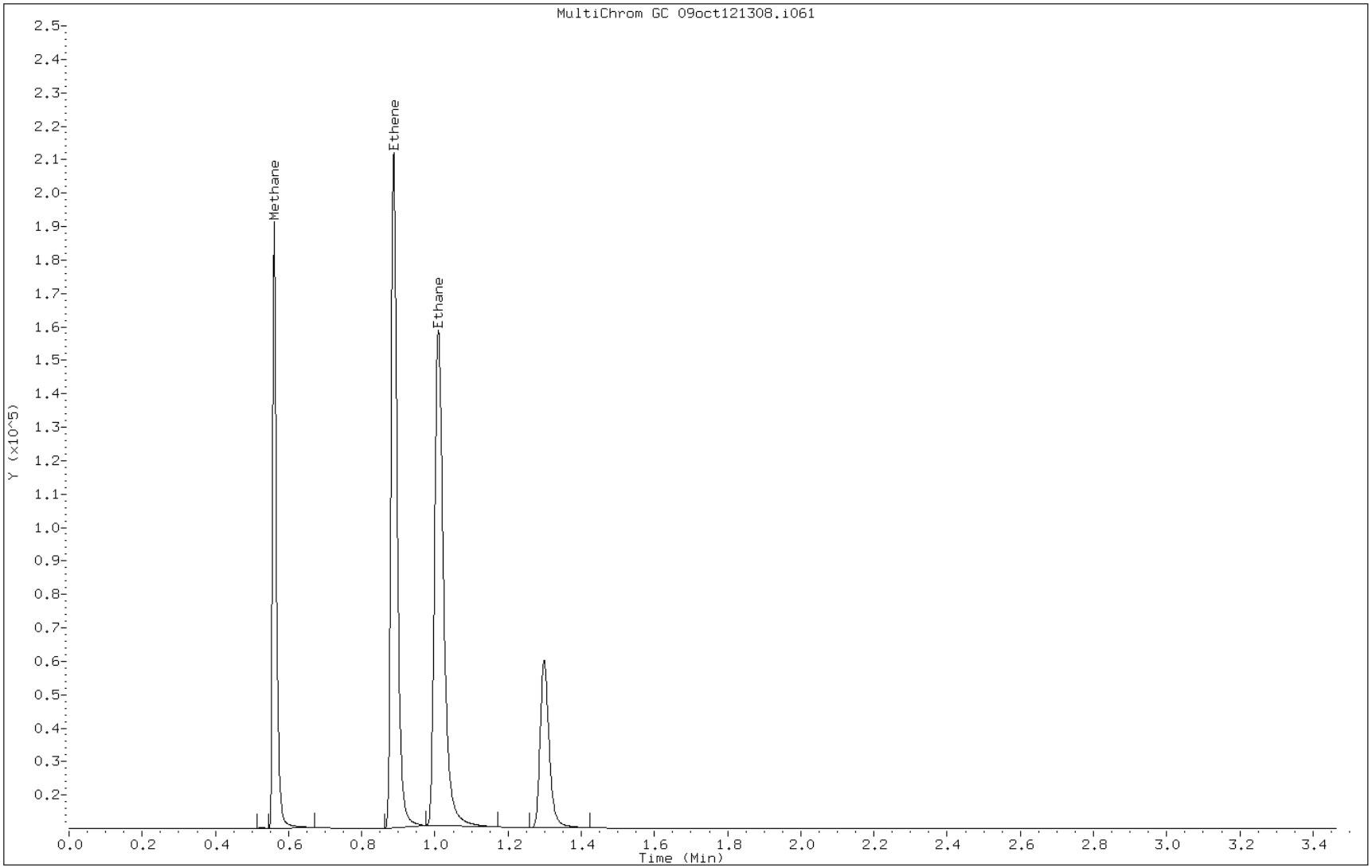
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r061.d
Lab Smp Id: ICV
Inj Date : 09-OCT-2012 14:07
Operator : TFS Inst ID: 2866_1.i
Smp Info : ICV,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:58 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 14:02 Cal File: 09oct121308-r051.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.561	0.557	0.004	136529	74.1317	74
2 Ethene	0.888	0.884	0.004	237811	126.255	130
3 Ethane	1.010	1.006	0.004	256624	135.587	140

Data File:	09oct121308-r061.d	Date:	09-OCT-2012 14:07
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	ICV,1		
Lab Sample ID:	ICV		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 200-49681/1 Calibration Date: 12/17/2012 09:54

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 17dec120932-r011.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	1842	2261		88.9	72.4	22.8	30.0
Ethylene	Ave	1884	2341		159	128	24.3	30.0
Ethane	Ave	1893	2331		168	137	23.2	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCV 200-49681/1 Calibration Date: 12/17/2012 09:54

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 17dec120932-r011.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.51	0.61
Ethylene	0.88	0.78	0.98
Ethane	1.00	0.91	1.11

TestAmerica Burlington

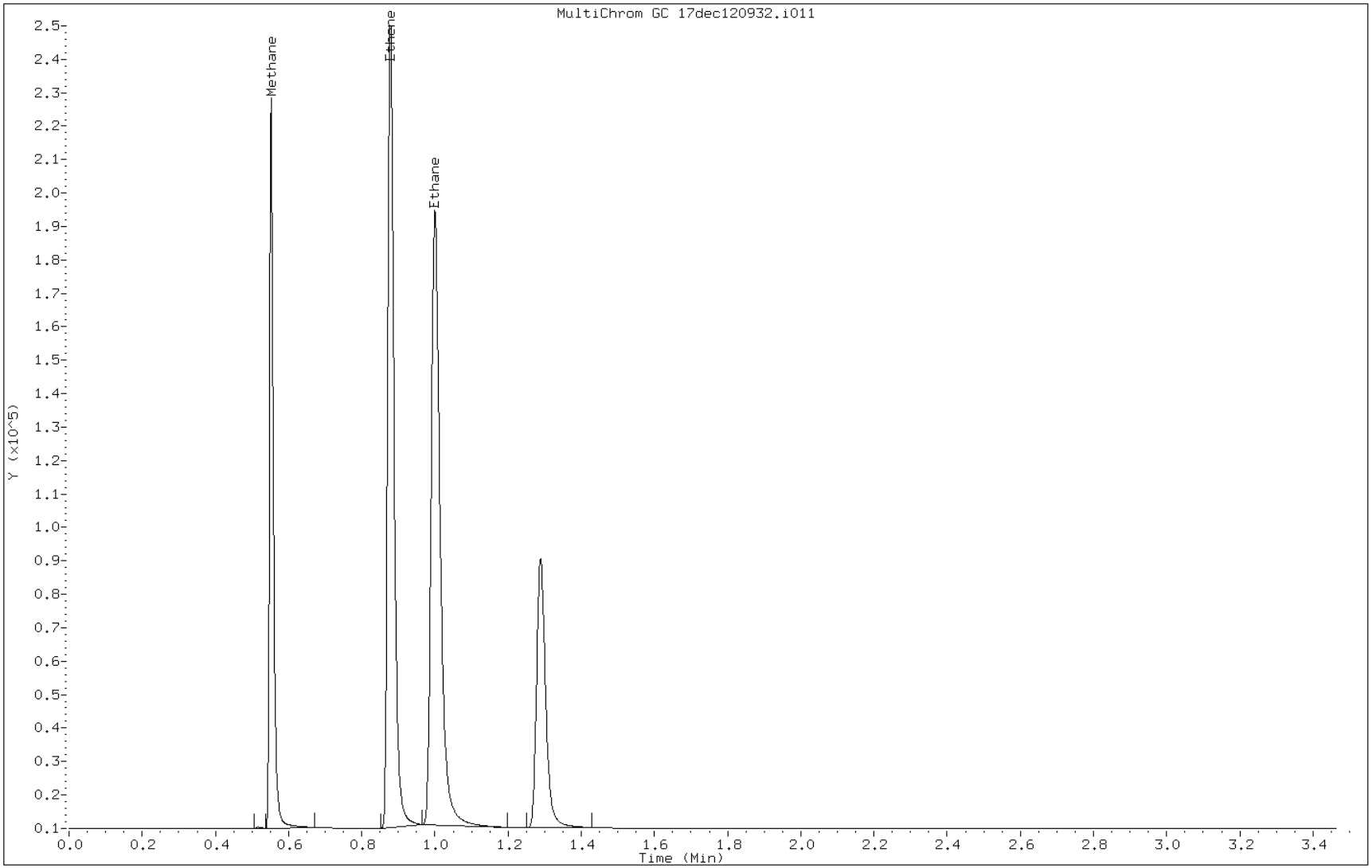
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec120932-r011.d
Lab Smp Id: CCV
Inj Date : 17-DEC-2012 09:54
Operator : TFS Inst ID: 2866_1.i
Smp Info : CCV,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.552	0.557	-0.005	163727	73.0000	89
2 Ethene	0.878	0.884	-0.006	300248	127.000	160
3 Ethane	1.000	1.006	-0.006	318596	136.000	170

Data File:	17dec120932-r011.d	Date:	17-DEC-2012 09:54
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	CCV,1		
Lab Sample ID:	CCV		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCVC 200-49681/62 Calibration Date: 12/18/2012 09:20

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 18dec120842-r041.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	1842	1819		71.5	72.4	-1.2	30.0
Ethylene	Ave	1884	1854		126	128	-1.6	30.0
Ethane	Ave	1893	1867		135	137	-1.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Lab Sample ID: CCVC 200-49681/62 Calibration Date: 12/18/2012 09:20

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 18dec120842-r041.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.51	0.61
Ethylene	0.87	0.78	0.98
Ethane	0.99	0.91	1.11

TestAmerica Burlington

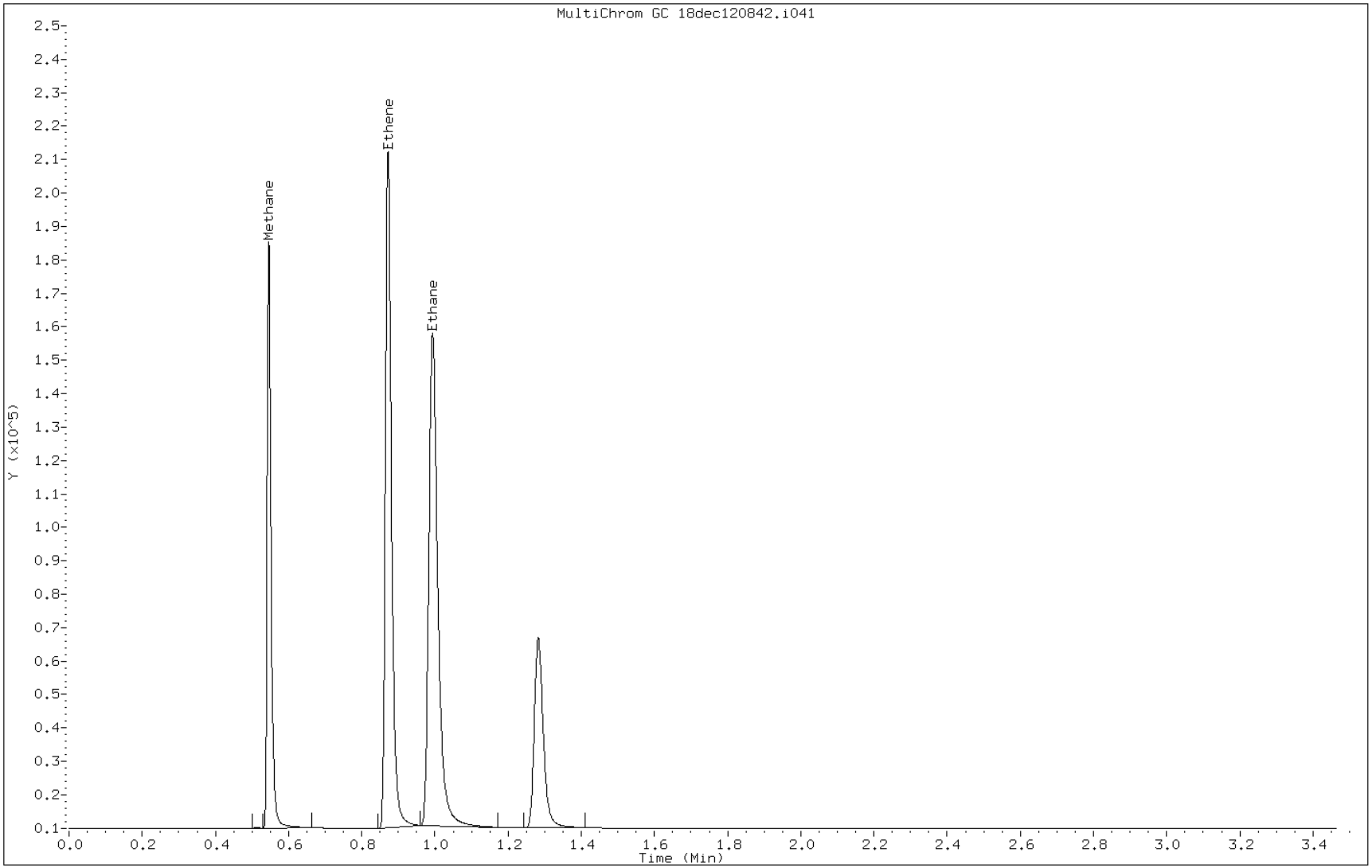
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/18dec120842-r041.d
Lab Smp Id: CCVC
Inj Date : 18-DEC-2012 09:20
Operator : TFS Inst ID: 2866_1.i
Smp Info : CCVC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 18-Dec-2012 09:30 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.546	0.557	-0.011	131719	73.0000	72
2 Ethene	0.872	0.884	-0.012	237829	127.000	130
3 Ethane	0.993	1.006	-0.013	255213	136.000	130

Data File:	18dec120842-r041.d	Date:	18-DEC-2012 09:20
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	CCVC,1		
Lab Sample ID:	CCVC		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53234-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49681/3
Matrix: Water
Lab File ID: 17dec120932-r031.d
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 10:03
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.45	U	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec120932-r031.d
Lab Smp Id: MB
Inj Date : 17-DEC-2012 10:03
Operator : TFS Inst ID: 2866_1.i
Smp Info : MB,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

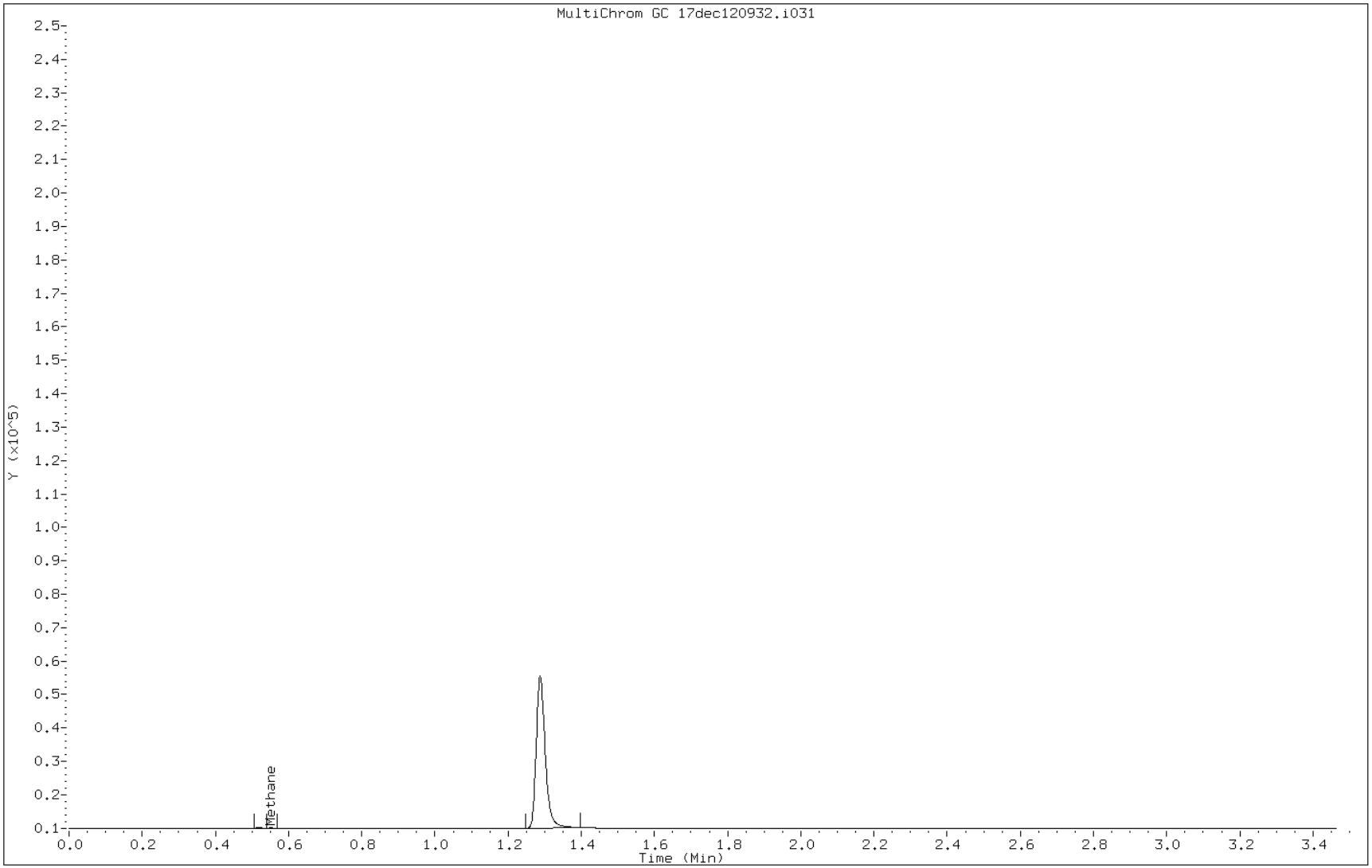
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.551	0.557	-0.006	199	0.10806	0.11(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec120932-r031.d	Date:	17-DEC-2012 10:03
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	MB,1		
Lab Sample ID:	MB		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-49681/36

Matrix: Water Lab File ID: 17dec121442-r021.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.45	U	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec121442-r021.d
Lab Smp Id: MB
Inj Date : 17-DEC-2012 15:03
Operator : TFS Inst ID: 2866_1.i
Smp Info : MB,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

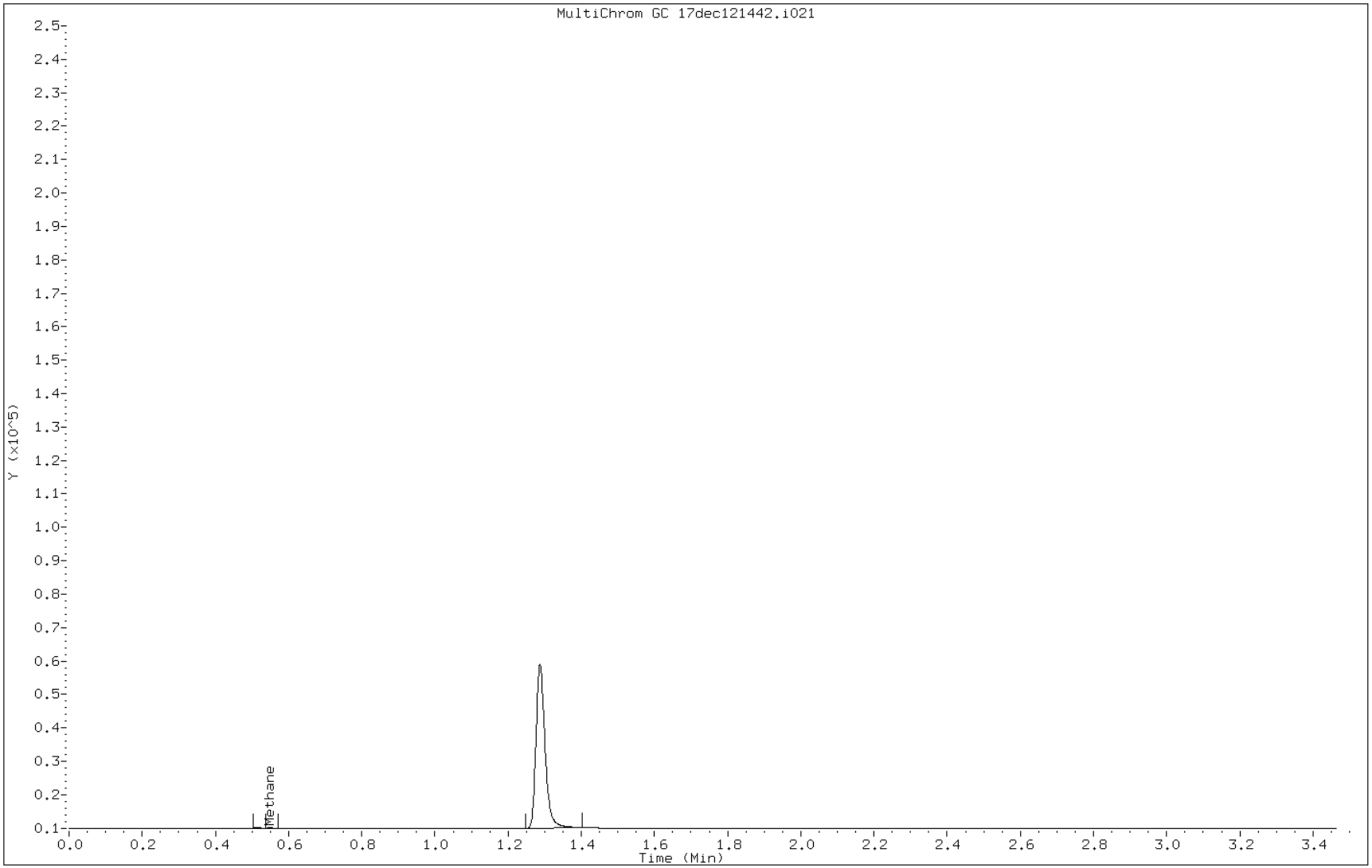
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.549	0.557	-0.008	225	0.12247	0.12(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121442-r021.d	Date:	17-DEC-2012 15:03
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	MB,1		
Lab Sample ID:	MB		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53234-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49681/35
Matrix: Water
Lab File ID: 17dec121442-r011.d
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 14:48
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	66.0		2.0	0.45
74-84-0	Ethane	124		4.0	0.81
74-85-1	Ethylene	120		3.0	0.73

TestAmerica Burlington

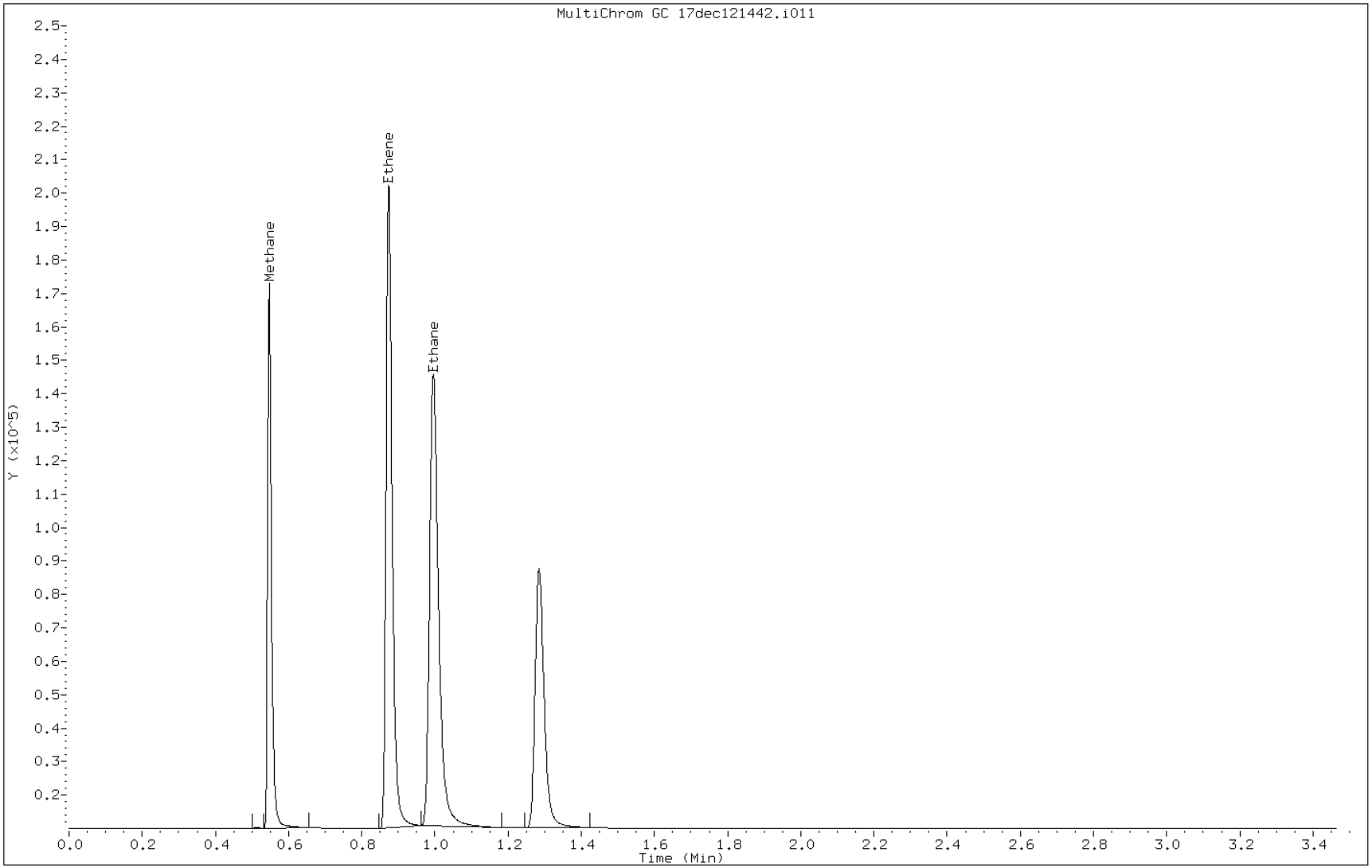
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec121442-r011.d
Lab Smp Id: LCS
Inj Date : 17-DEC-2012 14:48
Operator : TFS Inst ID: 2866_1.i
Smp Info : LCS,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.547	0.557	-0.010	121592	66.0213	66
2 Ethene	0.873	0.884	-0.011	225803	119.880	120
3 Ethane	0.996	1.006	-0.010	233761	123.507	120

Data File:	17dec121442-r011.d	Date:	17-DEC-2012 14:48
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	LCS,1		
Lab Sample ID:	LCS		



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Instrument ID: 2866.i Start Date: 10/09/2012 13:42

Analysis Batch Number: 46202 End Date: 10/09/2012 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-46202/1		10/09/2012 13:42	1	09oct121308-r01 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/2		10/09/2012 13:46	1	09oct121308-r02 1.d	RT-U-Plot 0.53(mm)
ICRT 200-46202/3		10/09/2012 13:51	1	09oct121308-r03 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/4		10/09/2012 13:57	1	09oct121308-r04 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/5		10/09/2012 14:02	1	09oct121308-r05 1.d	RT-U-Plot 0.53(mm)
ICV 200-46202/6		10/09/2012 14:07	1	09oct121308-r06 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 14:13	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 15:20	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:19	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:24	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:29	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:34	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:39	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:44	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:50	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:55	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:00	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:06	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:10	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:15	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:21	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:26	1		RT-U-Plot 0.53(mm)
CCVC 200-46202/23		10/09/2012 17:34	1		RT-U-Plot 0.53(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Instrument ID: 2866.i Start Date: 12/17/2012 09:54

Analysis Batch Number: 49681 End Date: 12/18/2012 09:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-49681/1		12/17/2012 09:54	1	17dec120932-r01 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 09:58	1		RT-U-Plot 0.53(mm)
MB 200-49681/3		12/17/2012 10:03	1	17dec120932-r03 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:46	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:50	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:55	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:01	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:06	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:11	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:17	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:22	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:26	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:32	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:37	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:42	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:48	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:53	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:58	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:03	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:08	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:13	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:19	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:24	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:34	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:39	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:44	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:50	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:54	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:59	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:05	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:10	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:15	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:21	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:26	10		RT-U-Plot 0.53(mm)
LCS 200-49681/35		12/17/2012 14:48	1	17dec121442-r01 1.d	RT-U-Plot 0.53(mm)
MB 200-49681/36		12/17/2012 15:03	1	17dec121442-r02 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:47	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:52	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:56	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:07	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:12	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:17	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:23	1		RT-U-Plot 0.53(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53234-1

SDG No.:

Instrument ID: 2866.i Start Date: 12/17/2012 09:54

Analysis Batch Number: 49681 End Date: 12/18/2012 09:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/17/2012 16:28	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:33	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:38	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:43	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:48	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:54	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:59	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:04	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:09	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:14	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:19	1		RT-U-Plot 0.53(mm)
500-53234-1	VLF-MW-3	12/17/2012 17:25	1	17dec121527-r19 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:30	1		RT-U-Plot 0.53(mm)
500-53234-3	OLD-MW-4	12/17/2012 17:35	1	17dec121527-r21 1.d	RT-U-Plot 0.53(mm)
500-53234-4	OLD-MW-9	12/17/2012 17:41	1	17dec121527-r22 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/18/2012 09:04	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/18/2012 09:09	1		RT-U-Plot 0.53(mm)
500-53234-2	VLF-MW-4	12/18/2012 09:14	5	18dec120842-r03 1.d	RT-U-Plot 0.53(mm)
CCVC 200-49681/62		12/18/2012 09:20	1	18dec120842-r04 1.d	RT-U-Plot 0.53(mm)

RSK-175

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG No.:

Project: Vulcan Louisville Fansteel

Client Sample ID	Lab Sample ID
VLF-MW-3	500-53234-1
VLF-MW-4	500-53234-2
OLD-MW-4	500-53234-3
OLD-MW-9	500-53234-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-3
Lab Sample ID: 500-53234-1
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 10:00
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.12	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.0011	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.0020	0.010	0.00096	mg/L	J		1	6010B
7439-92-1	Lead	0.0016	0.0050	0.0016	mg/L	U		1	6010B
7782-49-2	Selenium	0.050	0.010	0.0027	mg/L			1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.18	0.20	0.071	ug/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-4
Lab Sample ID: 500-53234-2
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 12:28
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.039	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.00092	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.0054	0.010	0.00096	mg/L	J		1	6010B
7439-92-1	Lead	0.0079	0.025	0.0079	mg/L	U		5	6010B
7782-49-2	Selenium	0.024	0.010	0.0027	mg/L			1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.21	0.20	0.071	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OLD-MW-4
Lab Sample ID: 500-53234-3
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 11:44
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.092	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.00098	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.0071	0.010	0.00096	mg/L	J		1	6010B
7439-92-1	Lead	0.013	0.0050	0.0016	mg/L			1	6010B
7782-49-2	Selenium	0.0027	0.010	0.0027	mg/L	U		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.071	0.20	0.071	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OLD-MW-9
Lab Sample ID: 500-53234-4
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 14:29
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.15	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.0020	0.0020	0.00054	mg/L			1	6010B
7440-47-3	Chromium	0.50	0.010	0.00096	mg/L			1	6010B
7439-92-1	Lead	0.10	0.0050	0.0016	mg/L			1	6010B
7782-49-2	Selenium	0.0027	0.010	0.0027	mg/L	U		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.091	0.20	0.071	ug/L	J		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

ICV Source: M12LICVIC_00001 Concentration Units: mg/L

CCV Source: M12KCCVIC_00002

Analyte	ICV 500-173118/6 12/14/2012 14:58				CCV 500-173118/11 12/14/2012 15:19				CCV 500-173118/23 12/14/2012 16:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.402		0.400	100	0.497		0.500	99	0.491		0.500	98
Barium	0.401		0.400	100	0.501		0.500	100	0.498		0.500	100
Cadmium	0.397		0.400	99	0.493		0.500	99	0.488		0.500	98
Chromium	0.385		0.400	96	0.499		0.500	100	0.500		0.500	100
Lead	0.410		0.400	103	0.513		0.500	103	0.510		0.500	102
Selenium	0.402		0.400	101	0.507		0.500	101	0.494		0.500	99
Silver	0.385		0.400	96	0.507		0.500	101	0.503		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

ICV Source: M12LICVIC_00001 Concentration Units: mg/L

CCV Source: M12KCCVIC_00002

Analyte	CCV 500-173118/35 12/14/2012 16:54											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.494		0.500	99								
Barium	0.498		0.500	100								
Cadmium	0.490		0.500	98								
Chromium	0.494		0.500	99								
Lead	0.508		0.500	102								
Selenium	0.507		0.500	101								
Silver	0.499		0.500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

ICV Source: M12LICVIC_00001 Concentration Units: mg/L

CCV Source: M12LCCVIC_00001

Analyte	ICV 500-173180/6 12/17/2012 09:01				CCV 500-173180/37 12/17/2012 11:24				CCV 500-173180/44 12/17/2012 11:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.412		0.400	103	0.529		0.500	106	0.508		0.500	102
Arsenic	0.398		0.400	100	0.519		0.500	104	0.526		0.500	105
Barium	0.401		0.400	100	0.502		0.500	100	0.499		0.500	100
Cadmium	0.397		0.400	99	0.492		0.500	98	0.487		0.500	97
Chromium	0.401		0.400	100	0.546		0.500	109	0.502		0.500	100
Selenium	0.391		0.400	98	0.492		0.500	98	0.510		0.500	102
Silver	0.397		0.400	99	0.518		0.500	104	0.494		0.500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

ICV Source: M11FSTKHG_00001 Concentration Units: ug/L

CCV Source: M11FSTKHG_00001

Analyte	ICV 500-173161/7 12/17/2012 09:06				CCV 500-173161/21 12/17/2012 09:36				CCV 500-173161/33 12/17/2012 10:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.91		2.00	96	0.910		1.00	91	0.859		1.00	86

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

ICV Source: M11FSTKHG_00001 Concentration Units: ug/L

CCV Source: M11FSTKHG_00001

Analyte	CCV 500-173161/46 12/17/2012 10:25				CCV 500-173161/55 12/17/2012 10:46							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.801		1.00	80	0.948		1.00	95				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Method: 6010B Instrument ID: ICP6

Lab Sample ID: CRI 500-173118/8 Concentration Units: mg/L

CRQL Check Standard Source: M12LCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0161		81	50-150
Barium	0.0200	0.0198		99	50-150
Cadmium	0.00400	0.00394		99	50-150
Chromium	0.0200	0.0195		98	50-150
Lead	0.0100	0.00924		92	50-150
Selenium	0.0200	0.0196		98	50-150
Silver	0.0100	0.00997		100	50-150

Lab Sample ID: CRI 500-173180/8 Concentration Units: mg/L

CRQL Check Standard Source: M12LCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0191		96	50-150
Barium	0.0200	0.0199		99	50-150
Cadmium	0.00400	0.00404		101	50-150
Chromium	0.0200	0.0191		96	50-150
Lead	0.0100	0.0105		105	50-150
Selenium	0.0200	0.0211		105	50-150
Silver	0.0100	0.00978		98	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Method: 7470A Instrument ID: HG6

Lab Sample ID: CRA 500-173161/9 Concentration Units: ug/L

CRQL Check Standard Source: M12ASTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.190	J	95	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 500-173118/7 12/14/2012 15:02		CCB 500-173118/12 12/14/2012 15:23		CCB 500-173118/24 12/14/2012 16:11		CCB 500-173118/36 12/14/2012 16:58	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Barium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Cadmium	0.0020	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Chromium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Lead	0.0050	0.0025	U	0.0025	U	0.0025	U	0.0025	U
Selenium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Silver	0.0050	0.0025	U	0.0025	U	0.0025	U	0.0025	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 500-173180/7 12/17/2012 09:05		CCB 500-173180/38 12/17/2012 11:28		CCB 500-173180/45 12/17/2012 11:56			
		Found	C	Found	C	Found	C	Found	C
Lead	0.0050	0.0025	U	0.0025	U	0.0025	U		
Arsenic	0.010	0.0050	U	0.0050	U	0.0050	U		
Barium	0.010	0.0050	U	0.0050	U	0.0050	U		
Cadmium	0.0020	0.0010	U	0.0010	U	0.0010	U		
Chromium	0.010	0.0050	U	0.0050	U	0.0050	U		
Selenium	0.010	0.0050	U	0.0050	U	0.0050	U		
Silver	0.0050	0.0025	U	0.0025	U	0.0025	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 500-173161/8 12/17/2012 09:08		CCB 500-173161/22 12/17/2012 09:38		CCB 500-173161/34 12/17/2012 10:02		CCB 500-173161/47 12/17/2012 10:27	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.071	U	0.071	U	0.071	U	0.071	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 500-173161/56 12/17/2012 10:48							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.071	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-172932/1-A

Instrument Code: ICP6 Batch No.: 173118

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.0024	U		6010B
7440-39-3	Barium	0.00044	U		6010B
7440-43-9	Cadmium	0.00054	U		6010B
7440-47-3	Chromium	0.00096	U		6010B
7439-92-1	Lead	0.0016	U		6010B
7782-49-2	Selenium	0.0027	U		6010B
7440-22-4	Silver	0.0011	U		6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 500-172995/7-A

Instrument Code: HG6 Batch No.: 173161

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.071	U		7470A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICSA 500-173118/9 Instrument ID: ICP6

Lab File ID: P6121412B.asc ICS Source: M12LISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0050**	
Barium		**-0.0001**	
Cadmium		**-0.0006**	
Chromium		**0.0015**	
Lead		**0.0035**	
Selenium		**-0.0061**	
Silver		**-0.0003**	
Aluminum	*500*	*503*	*101*
Antimony		*0.0042*	
Beryllium		*0.0003*	
Bismuth		*-0.0111*	
Boron		*0.0001*	
Calcium	*500*	*473*	*95*
Cobalt		*-0.0023*	
Copper		*0.0033*	
Iron	*200*	*190*	*95*
Magnesium	*500*	*514*	*103*
Manganese		*-0.0002*	
Molybdenum		*-0.0008*	
Nickel		*-0.0008*	
Potassium		*0.0073*	
Silicon		*0.0002*	
Sodium		*0.0712*	
Strontium		*0.0022*	
Thallium		*-0.0091*	
Tin		*0.0096*	
Titanium		*0.0031*	
Vanadium		*0.0026*	
Zinc		*-0.0010*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICSAB 500-173118/10 Instrument ID: ICP6

Lab File ID: P6121412B.asc ICS Source: M12LISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.107**	**107**
Barium	**0.500**	**0.506**	**101**
Cadmium	**1.00**	**1.01**	**101**
Chromium	**0.500**	**0.479**	**96**
Lead	**0.0500**	**0.0539**	**108**
Selenium	**0.0500**	**0.0425**	**85**
Silver	**0.200**	**0.224**	**112**
Aluminum	*500*	*513*	*103*
Antimony	*0.600*	*0.595*	*99*
Beryllium	*0.500*	*0.514*	*103*
Bismuth		*-0.0123*	
Boron		*-0.0007*	
Calcium	*500*	*474*	*95*
Cobalt	*0.500*	*0.510*	*102*
Copper	*0.500*	*0.544*	*109*
Iron	*200*	*192*	*96*
Magnesium	*500*	*516*	*103*
Manganese	*0.500*	*0.470*	*94*
Molybdenum		*-0.0004*	
Nickel	*1.00*	*0.985*	*98*
Potassium		*-0.0199*	
Silicon		*-0.0001*	
Sodium		*0.0868*	
Strontium		*0.0022*	
Thallium	*0.100*	*0.0873*	*87*
Tin		*0.0104*	
Titanium		*0.0040*	
Vanadium	*0.500*	*0.491*	*98*
Zinc	*1.00*	*0.994*	*99*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICSA 500-173180/9 Instrument ID: ICP6

Lab File ID: P6121712A.asc ICS Source: M12LISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.0087**	
Aluminum	*500*	*506*	*101*
Antimony		*-0.0002*	
Arsenic		*0.0029*	
Barium		*-0.0003*	
Beryllium		*0.0004*	
Bismuth		*-0.0007*	
Boron		*-0.0007*	
Cadmium		*-0.0005*	
Calcium	*500*	*470*	*94*
Chromium		*0.0028*	
Cobalt		*-0.0029*	
Copper		*0.0033*	
Iron	*200*	*187*	*93*
Magnesium	*500*	*505*	*101*
Manganese		*0.0004*	
Molybdenum		*-0.0004*	
Nickel		*-0.0064*	
Potassium		*0.0180*	
Selenium		*-0.0040*	
Silicon		*-0.0019*	
Silver		*-0.0005*	
Sodium		*0.0428*	
Strontium		*0.0021*	
Thallium		*-0.0080*	
Tin		*0.0131*	
Titanium		*0.0028*	
Vanadium		*-0.0021*	
Zinc		*0.0005*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Lab Sample ID: ICSAB 500-173180/10 Instrument ID: ICP6

Lab File ID: P6121712A.asc ICS Source: M12LISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Lead	**0.0500**	**0.0593**	**119**
Aluminum	*500*	*511*	*102*
Antimony	*0.600*	*0.601*	*100*
Arsenic	*0.100*	*0.106*	*106*
Barium	*0.500*	*0.502*	*100*
Beryllium	*0.500*	*0.505*	*101*
Bismuth		*-0.0040*	
Boron		*-0.0004*	
Cadmium	*1.00*	*1.01*	*101*
Calcium	*500*	*464*	*93*
Chromium	*0.500*	*0.472*	*94*
Cobalt	*0.500*	*0.513*	*103*
Copper	*0.500*	*0.542*	*108*
Iron	*200*	*187*	*93*
Magnesium	*500*	*504*	*101*
Manganese	*0.500*	*0.461*	*92*
Molybdenum		*-0.0010*	
Nickel	*1.00*	*1.01*	*101*
Potassium		*-0.0049*	
Selenium	*0.0500*	*0.0432*	*86*
Silicon		*-0.0011*	
Silver	*0.200*	*0.217*	*109*
Sodium		*0.0497*	
Strontium		*0.0021*	
Thallium	*0.100*	*0.0901*	*90*
Tin		*0.0106*	
Titanium		*0.0040*	
Vanadium	*0.500*	*0.489*	*98*
Zinc	*1.00*	*1.00*	*100*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-3 MS

Lab ID: 500-53234-1 MS

Lab Name: TestAmerica Chicago

Job No.: 500-53234-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.10		0.18	J	1.00	91	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-3 MSD

Lab ID: 500-53234-1 MSD

Lab Name: TestAmerica Chicago

Job No.: 500-53234-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.986		1.00	80	75-125	11	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: VLF-MW-3 DU

Lab ID: 500-53234-1 DU

Lab Name: TestAmerica Chicago

Job No.: 500-53234-1

SDG No.:

% Solids for Sample:

% Solids for Duplicate:

Matrix: Water

Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.18	J	0.071	U	NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-172932/2-A

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

Sample Matrix: Water LCS Source: M12JSPKIC_00002

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.0932		93	80	120		6010B
Barium	2.00	2.06		103	80	120		6010B
Cadmium	0.0500	0.0484		97	80	120		6010B
Chromium	0.200	0.198		99	80	120		6010B
Lead	0.100	0.0996		100	80	120		6010B
Selenium	0.100	0.0951		95	80	120		6010B
Silver	0.0500	0.0492		98	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-172995/8-A

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

Sample Matrix: Water LCS Source: M11FSTKHG_00001

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	1.76		88	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010B MDL Date: 02/20/2012 13:03

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00236
Barium		0.01	0.00044
Cadmium		0.002	0.00054
Chromium		0.01	0.00096
Lead		0.005	0.00158
Selenium		0.01	0.00266
Silver		0.005	0.0011

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010B XMDL Date: 05/25/2006 09:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A MDL Date: 08/31/2012 10:08

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.071

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A XMDL Date: 08/31/2012 10:08

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.071

ICP6
10/29/12

500-53234-1

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	1	Fe	-0.000001	0.000000	No
Al 308.215 {109}	☒	2	Mo	0.007252	0.000000	No
			V	0.225109	0.000000	No
As 189.042 {478}	☒	4	Mo	-0.000257	0.000000	No
			Cr	-0.000899	0.000000	No
			Al	-0.000018	0.000000	No
			Fe	-0.000019	0.000000	No
B 208.959 {461}	☒	1	Mo	0.033439	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 234.861 {143}	☒	1	Fe	0.000007	0.000000	No
Bi 223.061 {451}	☒	2	Fe	0.000043	0.000000	No
			Ti	-0.007347	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 228.802 {447}	☒	3	As	0.004283	0.000000	No
			Fe	0.000001	0.000000	No
			Ba	-0.000232	0.000000	No
Co 228.616 {447}	☒	4	Ti	0.002231	0.000000	No
			Fe	0.000011	0.000000	No
			Cr	-0.000258	0.000000	No
			Ba	-0.000350	0.000000	No
Cr 267.716 {126}	☒	None				
Cu 324.754 {104}	☒	None				
Fe 271.441 {124}	☒	2	Co	0.088693	0.000000	No
			V	0.007569	0.000000	No
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	3	Mo	-0.006776	0.000000	No
			Mn	-0.003611	0.000000	No
			Fe	-0.000245	0.000000	No
Mn 257.610 {131}	☒	1	Fe	0.000019	0.000000	No
Mo 202.030 {467}	☒	2	Fe	-0.000015	0.000000	No
			Al	-0.000011	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {446}	☒	1	Fe	0.000036	0.000000	No
Pb 220.353 {453}	☒	5	Al	-0.000057	0.000000	No
			Fe	0.000047	0.000000	No
			Si	0.000095	0.000000	No
			Mo	-0.000892	0.000000	No
			Cu	0.001208	0.000000	No
Sb 206.833 {463}	☒	5	Fe	0.000013	0.000000	No
			Al	0.000010	0.000000	No
			Cr	0.015204	0.000000	No
			V	-0.001068	0.000000	No
			Ti	-0.002346	0.000000	No
Se 196.090 {472}	☒	2	Al	0.000002	0.000000	No
			Fe	-0.000006	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.014343	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 421.552 { 80}	☒	None				
Ti 334.941 {101}	☒	1	Ca	-0.000005	0.000000	No
Tl 190.856 {477}	☒	5	V	-0.006826	0.000000	No
			Al	-0.000002	0.000000	No
			Co	0.001123	0.000000	No
			Fe	0.000004	0.000000	No

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-53234-1

SDG No.:

Instrument ID: ICP6 Date: 11/19/2012 14:24

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010B
Barium		20	6010B
Cadmium		10	6010B
Chromium		20	6010B
Lead		100	6010B
Selenium		20	6010B
Silver		10	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-53234-1

SDG No.:

Instrument ID: HG6 Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-172932/1-A	12/13/2012 15:00	172932		50	50
LCS 500-172932/2-A	12/13/2012 15:00	172932		50	50
500-53234-1	12/13/2012 15:00	172932		50	50
500-53234-2	12/13/2012 15:00	172932		50	50
500-53234-3	12/13/2012 15:00	172932		50	50
500-53234-4	12/13/2012 15:00	172932		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-172995/7-A	12/14/2012 11:00	172995		25	25
LCS 500-172995/8-A	12/14/2012 11:00	172995		25	25
500-53234-1	12/14/2012 11:00	172995		25	25
500-53234-1 DU	12/14/2012 11:00	172995		25	25
500-53234-1 MS	12/14/2012 11:00	172995		25	25
500-53234-1 MSD	12/14/2012 11:00	172995		25	25
500-53234-2	12/14/2012 11:00	172995		25	25
500-53234-3	12/14/2012 11:00	172995		25	25
500-53234-4	12/14/2012 11:00	172995		25	25

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/14/2012 14:37 End Date: 12/14/2012 17:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			14:37																				
ZZZZZZ			14:41																				
ZZZZZZ			14:45																				
ZZZZZZ			14:49																				
ZZZZZZ			14:53																				
ICV 500-173118/6	1		14:58	X	X	X	X	X	X	X													
ICB 500-173118/7	1		15:02	X	X	X	X	X	X	X													
CRI 500-173118/8	1		15:05	X	X	X	X	X	X	X													
ICSA 500-173118/9	1		15:09	X	X	X	X	X	X	X													
ICSAB 500-173118/10	1		15:14	X	X	X	X	X	X	X													
CCV 500-173118/11	1		15:19	X	X	X	X	X	X	X													
CCB 500-173118/12	1		15:23	X	X	X	X	X	X	X													
ZZZZZZ			15:26																				
MB 500-172932/1-A	1	T	15:30	X	X	X	X	X	X	X													
LCS 500-172932/2-A	1	T	15:33	X	X	X	X	X	X	X													
ZZZZZZ			15:37																				
ZZZZZZ			15:42																				
ZZZZZZ			15:47																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
500-53234-1	1	T	16:02	X	X	X	X	X	X	X													
CCV 500-173118/23	1		16:07	X	X	X	X	X	X	X													
CCB 500-173118/24	1		16:11	X	X	X	X	X	X	X													
500-53234-2	1	T	16:14	X	X	X	X	X		X													
500-53234-3	1	T	16:18	X	X	X	X	X	X	X													
500-53234-4	1	T	16:22	X	X	X	X	X	X	X													
ZZZZZZ			16:26																				
ZZZZZZ			16:30																				
ZZZZZZ			16:33																				
ZZZZZZ			16:37																				
ZZZZZZ			16:42																				
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
CCV 500-173118/35	1		16:54	X	X	X	X	X	X	X													
CCB 500-173118/36	1		16:58	X	X	X	X	X	X	X													
ZZZZZZ			17:01																				
ZZZZZZ			17:05																				
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
CRI 500-173118/41			17:17																				
ICSA 500-173118/42			17:21																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/14/2012 14:37 End Date: 12/14/2012 17:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ICSAB 500-173118/43			17:26																				
CCV 500-173118/44			17:31																				
CCB 500-173118/45			17:35																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/17/2012 08:41 End Date: 12/17/2012 12:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			08:41																				
ZZZZZZ			08:45																				
ZZZZZZ			08:49																				
ZZZZZZ			08:53																				
ZZZZZZ			08:57																				
ICV 500-173180/6	1		09:01	X																			
ICB 500-173180/7	1		09:05	X																			
CRI 500-173180/8	1		09:08	X																			
ICSA 500-173180/9	1		09:12	X																			
ICSAB 500-173180/10	1		09:18	X																			
CCV 500-173180/11			09:22																				
CCB 500-173180/12			09:26																				
ZZZZZZ			09:29																				
ZZZZZZ			09:33																				
CCV 500-173180/15			09:49																				
CCB 500-173180/16			09:53																				
ZZZZZZ			09:56																				
ZZZZZZ			10:00																				
ZZZZZZ			10:04																				
ZZZZZZ			10:09																				
ZZZZZZ			10:14																				
ZZZZZZ			10:19																				
ZZZZZZ			10:23																				
ZZZZZZ			10:28																				
ZZZZZZ			10:33																				
ZZZZZZ			10:38																				
CCV 500-173180/27			10:43																				
CCB 500-173180/28			10:47																				
ZZZZZZ			10:51																				
ZZZZZZ			10:56																				
ZZZZZZ			11:00																				
ZZZZZZ			11:04																				
ZZZZZZ			11:08																				
ZZZZZZ			11:12																				
ZZZZZZ			11:16																				
ZZZZZZ			11:20																				
CCV 500-173180/37	1		11:24	X																			
CCB 500-173180/38	1		11:28	X																			
ZZZZZZ			11:32																				
500-53234-2	5	T	11:36	X																			
ZZZZZZ			11:40																				
ZZZZZZ			11:44																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/17/2012 08:41 End Date: 12/17/2012 12:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			11:48																				
CCV 500-173180/44	1		11:52	X																			
CCB 500-173180/45	1		11:56	X																			
ZZZZZZ			11:59																				
ZZZZZZ			12:04																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: HG6 Method: 7470A

Start Date: 12/17/2012 08:53 End Date: 12/17/2012 10:48

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			08:53																				
ZZZZZZ			08:55																				
ZZZZZZ			08:57																				
ZZZZZZ			08:59																				
ZZZZZZ			09:01																				
ZZZZZZ			09:03																				
ICV 500-173161/7	1		09:06	X																			
ICB 500-173161/8	1		09:08	X																			
CRA 500-173161/9	1		09:11	X																			
MB 500-172995/7-A	1	T	09:13	X																			
ZZZZZZ			09:15																				
ZZZZZZ			09:17																				
ZZZZZZ			09:19																				
ZZZZZZ			09:21																				
ZZZZZZ			09:23																				
ZZZZZZ			09:25																				
500-53234-1	1	T	09:27	X																			
500-53234-1 DU	1	T	09:29	X																			
CCV 500-173161/19			09:31																				
CCB 500-173161/20			09:33																				
CCV 500-173161/21	1		09:36	X																			
CCB 500-173161/22	1		09:38	X																			
500-53234-1 MS	1	T	09:40	X																			
500-53234-1 MSD	1	T	09:42	X																			
500-53234-2	1	T	09:44	X																			
500-53234-3	1	T	09:47	X																			
500-53234-4	1	T	09:49	X																			
ZZZZZZ			09:51																				
ZZZZZZ			09:52																				
ZZZZZZ			09:54																				
ZZZZZZ			09:57																				
ZZZZZZ			09:59																				
CCV 500-173161/33	1		10:00	X																			
CCB 500-173161/34	1		10:02	X																			
ZZZZZZ			10:05																				
ZZZZZZ			10:06																				
ZZZZZZ			10:07																				
ZZZZZZ			10:10																				
ZZZZZZ			10:12																				
ZZZZZZ			10:14																				
ZZZZZZ			10:16																				
ZZZZZZ			10:18																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: HG6 Method: 7470A

Start Date: 12/17/2012 08:53 End Date: 12/17/2012 10:48

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			10:20																				
ZZZZZZ			10:22																				
ZZZZZZ			10:23																				
CCV 500-173161/46	1		10:25	X																			
CCB 500-173161/47	1		10:27	X																			
ZZZZZZ			10:32																				
ZZZZZZ			10:34																				
ZZZZZZ			10:36																				
ZZZZZZ			10:38																				
LCS 500-172995/8-A	1	T	10:40	X																			
ZZZZZZ			10:42																				
ZZZZZZ			10:44																				
CCV 500-173161/55	1		10:46	X																			
CCB 500-173161/56	1		10:48	X																			

Prep Types

T = Total/NA

P6121412B Parlfuse 173118

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact
1	---	---	---	---	Cal	---	---	---
2	1	1	1	1	QC	S1		1
3	2	1	2	1	QC	S2		1
4	3	1	3	1	QC	ICV		1
5	4	1	4	1	QC	ICB		1
6	5	1	5	1	QC	CRI		1
7	6	1	6	1	QC	ICSA		1
8	7	1	7	1	QC	ICSAB		1
9	8	1	8	1	QC	CCV		1
10	9	1	9	1	QC	CCB		1
11	10	1	10	1	Unk	MRL		1
12	11	1	11	1	Unk	MB 500-172932/1-A		1
13	12	1	12	1	Unk	LCS 500-172932/2-		1
14	13	1	1	2	Unk	500-53194-J-1-B	Fe, Mn	1
15	14	1	2	2	Unk	500-53192-D-6-A	Ag, Pb	1
16	15	1	3	2	Unk	500-53192-D-6-A S		1
17	16	1	4	2	Unk	500-53192-D-6-B D		1
18	17	1	5	2	Unk	500-53192-D-6-C M		1
19	18	1	6	2	Unk	500-53192-D-6-D M		1
20	19	1	7	2	Unk	500-53234-J-1-A	RCRA	1
21	20	1	8	2	QC	CCV		1
22	21	1	9	2	QC	CCB		1
23	22	1	10	2	Unk	500-53234-J-2-A	RCRA (-Pb)	1
24	23	1	11	2	Unk	500-53234-J-3-A		1
25	24	1	12	2	Unk	500-53234-J-4-A		1
26	25	1	1	3	Unk	MB 500-173021/1-A		1
27	26	1	2	3	Unk	LCS 500-173021/2-		1
28	27	1	3	3	Unk	500-52785-N-1-B	As, Cd, Fe, Ni, Pb, Zn, Mn	1
29	28	1	4	3	Unk	500-52785-E-2-B		1
30	29	1	5	3	Unk	500-52785-E-3-E		1
31	30	1	6	3	Unk	500-52785-E-4-B		1
32	31	1	7	3	Unk	500-53028-D-7-A	B, Mn	1
33	32	1	8	3	QC	CCV		1
34	33	1	9	3	QC	CCB		1
35	34	1	10	3	Unk	500-53028-D-7-A S		1
36	35	1	11	3	Unk	500-53028-D-7-B D		1
37	36	1	12	3	Unk	500-53028-D-7-C M		1
38	37	1	1	4	Unk	500-53028-D-7-D M		1
39	38	1	2	4	QC	CRI		1
40	39	1	3	4	QC	ICSA		1
41	40	1	4	4	QC	ICSAB		1
42	41	1	5	4	QC	CCV		1
43	42	1	6	4	QC	CCB		1

Sample Name: Blank Acquired: 12/14/2012 14:37:32 Type: Cal
Method: P6121412B Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00029	.00257	-.00034	.00191	.01021	-.00011	-.00317
Stddev	.00021	.00031	.00011	.00004	.00140	.00002	.00004
%RSD	73.884	12.111	33.524	1.9817	13.668	14.638	1.1773
#1	-.00014	.00279	-.00026	.00194	.01120	-.00009	-.00314
#2	-.00044	.00235	-.00042	.00188	.00922	-.00012	-.00319

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00657	.0018	-.00089	.00015	.01494	.00024	.00225
Stddev	.00023	.0005	.00003	.00020	.00017	.00024	.00009
%RSD	3.5219	26.86	2.8860	127.66	1.1443	98.696	3.8122
#1	.00673	.0014	-.00087	.00001	.01506	.00041	.00231
#2	.00641	.0021	-.00091	.00029	.01482	.00007	.00219

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00018	.00059	-.00053	.00261	-.00131	.00009	.00054
Stddev	.00045	.00010	.00029	.00129	.00007	.00002	.00031
%RSD	243.74	17.538	55.887	49.553	5.0580	22.577	57.819
#1	.00013	.00066	-.00074	.00169	-.00127	.00008	.00076
#2	-.00050	.00052	-.00032	.00352	-.00136	.00011	.00032

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00032	.01291	.00019	-.00061	.00079	-.00081	.00063
Stddev	.00000	.00019	.00002	.00033	.00019	.00005	.00016
%RSD	1.3326	1.4644	10.600	54.185	23.658	6.0463	25.003
#1	.00032	.01278	.00018	-.00084	.00065	-.00078	.00074
#2	.00033	.01305	.00021	-.00037	.00092	-.00085	.00051

Sample Name: Blank Acquired: 12/14/2012 14:37:32 Type: Cal
Method: P6121412B Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Units	Cts/S
Avg	-.00021
Stddev	.00006
%RSD	27.824
#1	-.00017
#2	-.00026

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3160.6	2721.5	13741.	5643.5
Stddev	77.0	106.0	300.	15.2
%RSD	2.4356	3.8963	2.1843	.26931
#1	3215.1	2796.5	13953.	5632.7
#2	3106.2	2646.6	13529.	5654.2

Sample Name: S1 Acquired: 12/14/2012 14:41:34 Type: Cal
Method: P6121412B Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.93519	.13554	.66464	5.4647	1.6500	.22165	3.092	1.3863
Stddev	.00342	.00134	.00749	.0088	.0001	.00256	.032	.0160
%RSD	.36612	.98535	1.1276	.16100	.00918	1.1534	1.043	1.1558
#1	.93277	.13648	.66994	5.4585	1.6499	.22345	3.115	1.3977
#2	.93761	.13459	.65934	5.4709	1.6501	.21984	3.069	1.3750

Elem	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.43881	1.2926	1.0881	.77142	.53012	.25035	.17912	.09403
Stddev	.00150	.0095	.0001	.00942	.00577	.00292	.00186	.00090
%RSD	.34184	.73642	.00712	1.2213	1.0875	1.1653	1.0364	.95624
#1	.43775	1.2859	1.0881	.77808	.53419	.25241	.18043	.09467
#2	.43987	1.2993	1.0880	.76475	.52604	.24828	.17780	.09339

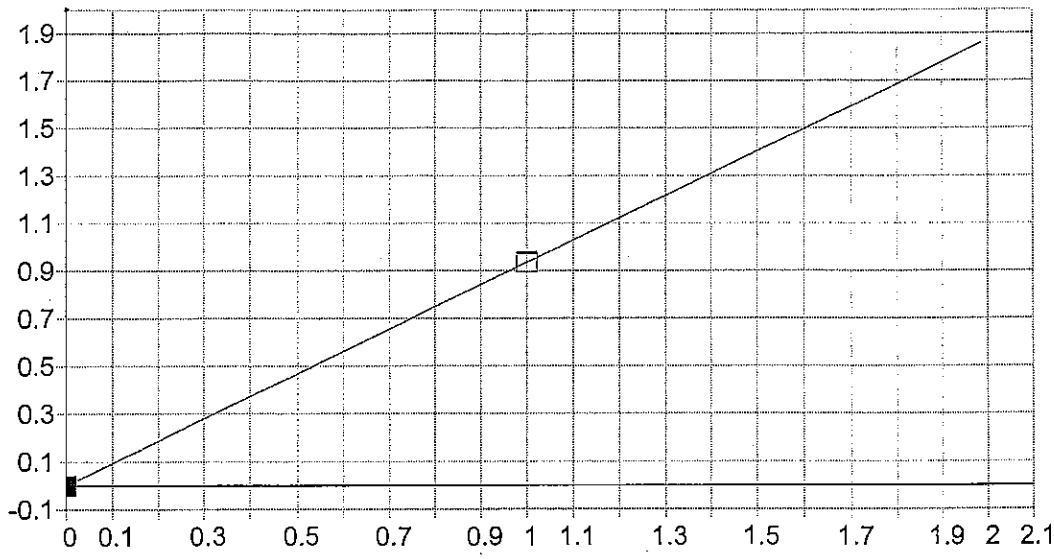
Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.28463	.23052	32.976	1.9397	.13513	.75930	.75922
Stddev	.00259	.00163	.366	.0096	.00124	.00321	.00719
%RSD	.91056	.70921	1.1112	.49707	.91770	.42332	.94669
#1	.28647	.23168	32.717	1.9329	.13601	.75702	.76431
#2	.28280	.22936	33.235	1.9466	.13425	.76157	.75414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2919.4	2442.6	12539.	5825.2
Stddev	24.0	21.6	53.	4.7
%RSD	.82195	.88390	.41880	.08019
#1	2902.4	2427.4	12577.	5821.9
#2	2936.4	2457.9	12502.	5828.5

Sample Name: S2 Acquired: 12/14/2012 14:45:31 Type: Cal
Method: P6121412B Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3558	20.056	.96092	5.6330	1.5216	29.318
Stddev	.0148	.121	.00441	.0103	.0097	.078
%RSD	.44113	.60114	.45858	.18273	.63609	.26583
#1	3.3453	19.971	.95780	5.6257	1.5147	29.263
#2	3.3663	20.141	.96403	5.6403	1.5284	29.374

Int. Std.	Y_3710
Units	Cts/S
Avg	5661.6
Stddev	27.3
%RSD	.48208
#1	5680.9
#2	5642.3

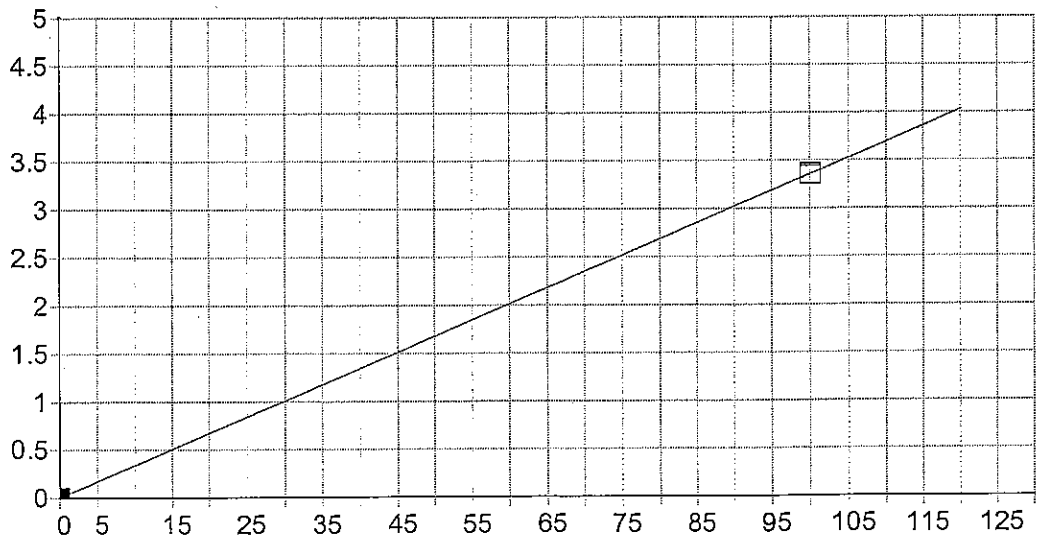


Ag 328.068 {103}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000291	Re-Slope:	1.000000
A1 (Gain):	0.935477	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000514		
Predicted MQL:	0.001715		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00029	.000	1
S1	1.0000	1.0000	.000	.000	.93519	.003	1

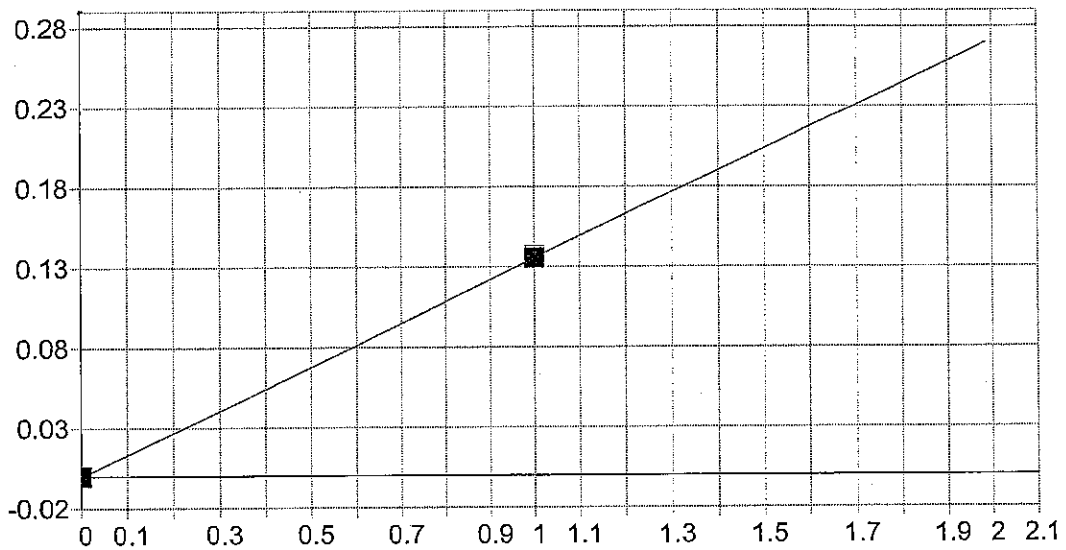


Al 308.215 {109}

Date of Fit:	12/14/2012 14:49:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002574	Re-Slope:	1.000000
A1 (Gain):	0.033532	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018012		
Predicted MQL:	0.060041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00257	.000	1
S2	100.00	100.00	.000	.000	3.3558	.015	1

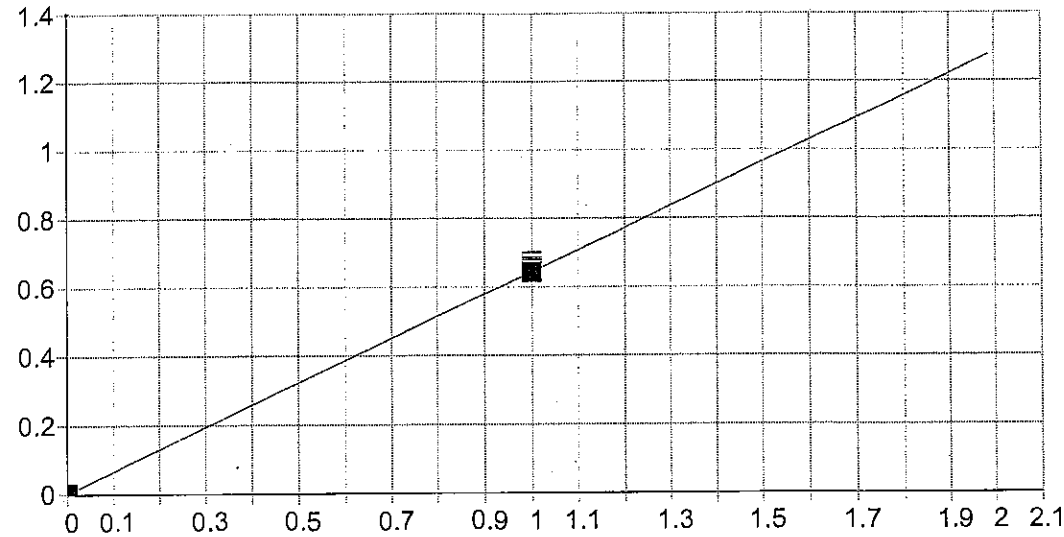


As 189.042 {478}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000339	Re-Slope:	1.000000
A1 (Gain):	0.136035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002011		
Predicted MQL:	0.006705		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00034	.000	1
S1	1.0000	1.0000	.000	.000	.13554	.001	1

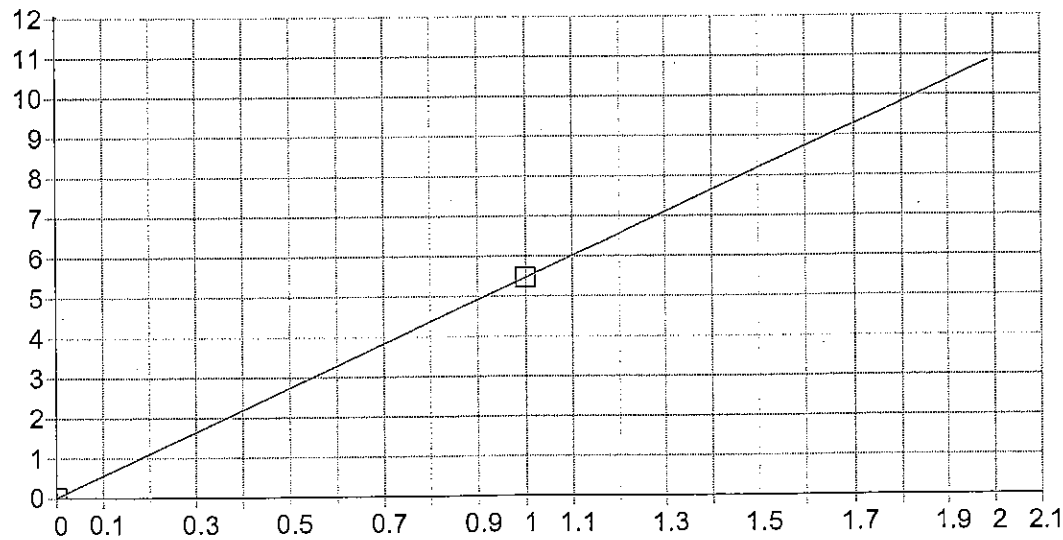


B 208.959 {461}

Date of Fit: 12/14/2012 14:45:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.001909	Re-Slope:	1.000000
A1 (Gain):	0.641286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000414		
Predicted MQL:	0.001380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00191	.000	1
S1	1.0000	1.0000	.000	.000	.66464	.007	1

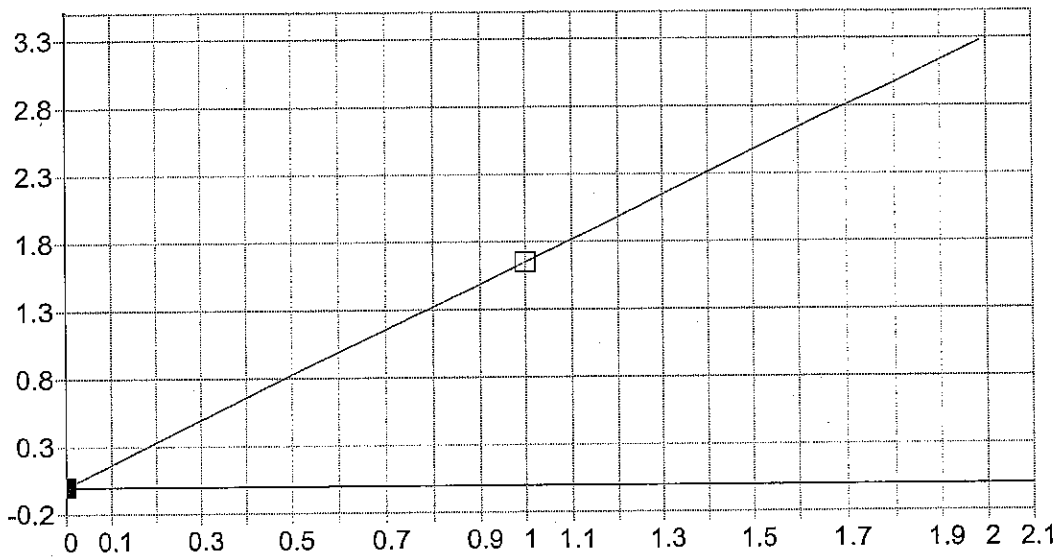


Ba 455.403 { 74}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010209	Re-Slope:	1.000000
A1 (Gain):	5.454466	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000187		
Predicted MQL:	0.000624		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01021	.001	1
S1	1.0000	1.0000	.000	.000	5.4647	.009	1

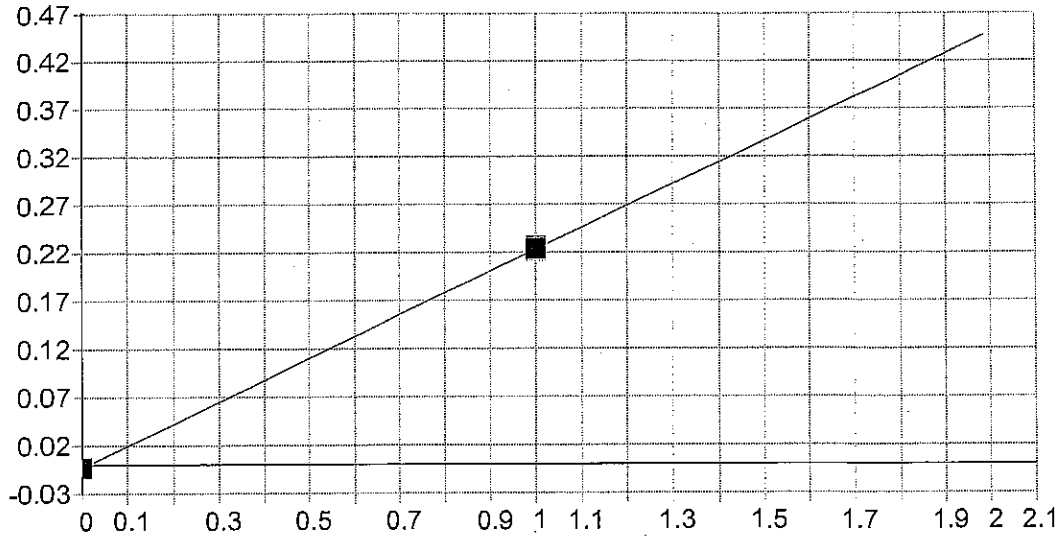


Be 234.861 {143}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000105	Re-Slope:	1.000000
A1 (Gain):	1.650086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000216		
Predicted MQL:	0.000720		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00011	.000	1
S1	1.0000	1.0000	.000	.000	1.6500	.000	1

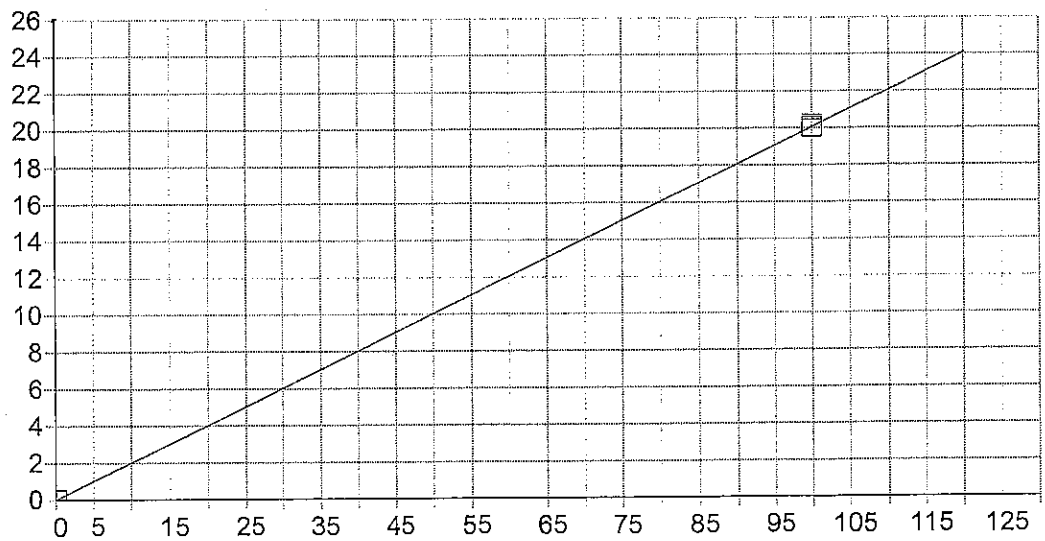


Bi 223.061 {451}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003166	Re-Slope:	1.000000
A1 (Gain):	0.226475	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001723		
Predicted MQL:	0.005742		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00317	.000	1
S1	1.0000	1.0000	.000	.000	.22165	.003	1

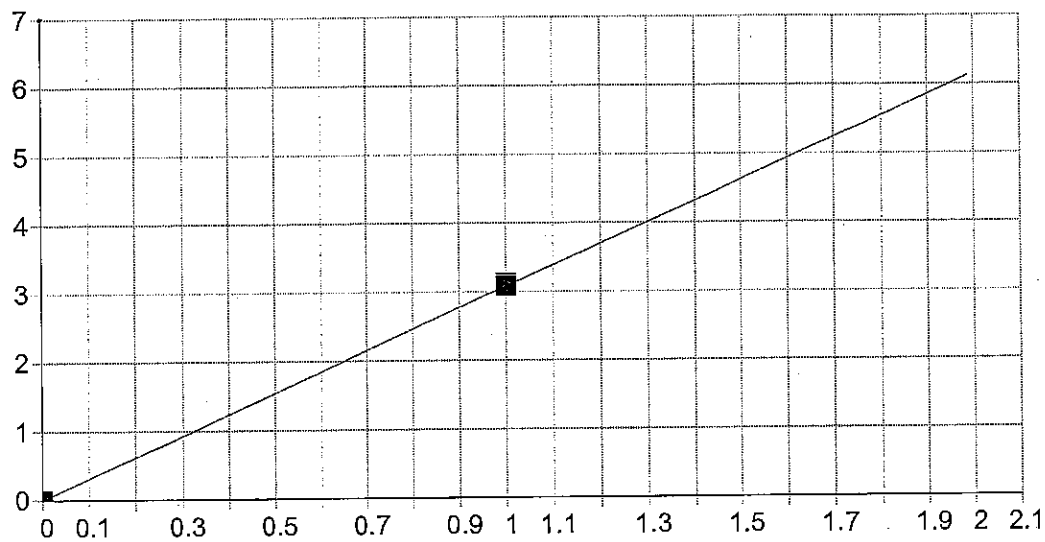


Ca 317.933 {106}

Date of Fit:	12/14/2012 14:49:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006569	Re-Slope:	1.000000
A1 (Gain):	0.200492	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002709		
Predicted MQL:	0.009031		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00657	.000	1
S2	100.00	100.00	.000	.000	20.056	.121	1

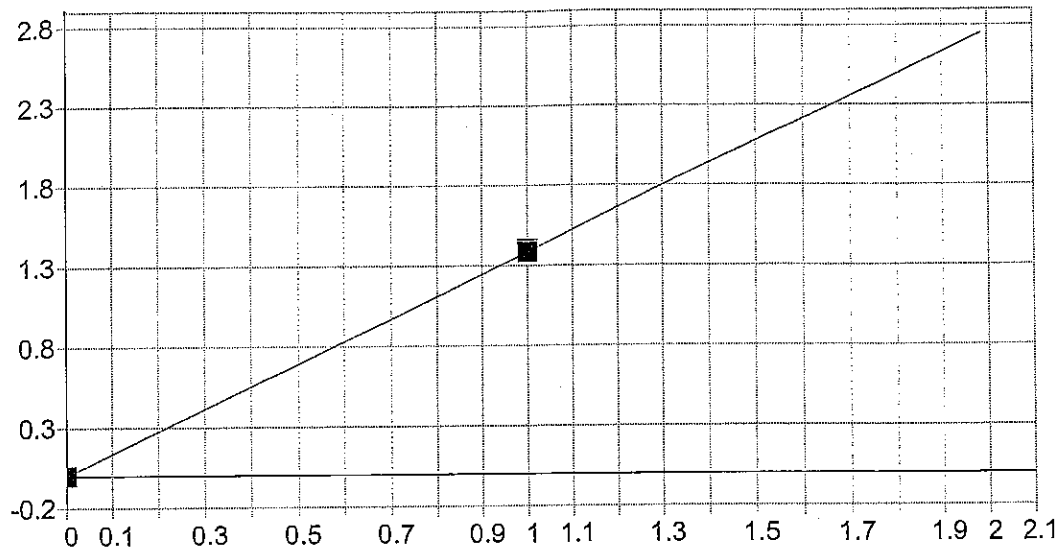


Cd 228.802 {447}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001763	Re-Slope:	1.000000
A1 (Gain):	3.077795	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000151		
Predicted MQL:	0.000504		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00176	.000	1
S1	1.0000	1.0000	.000	.000	3.0920	.032	1

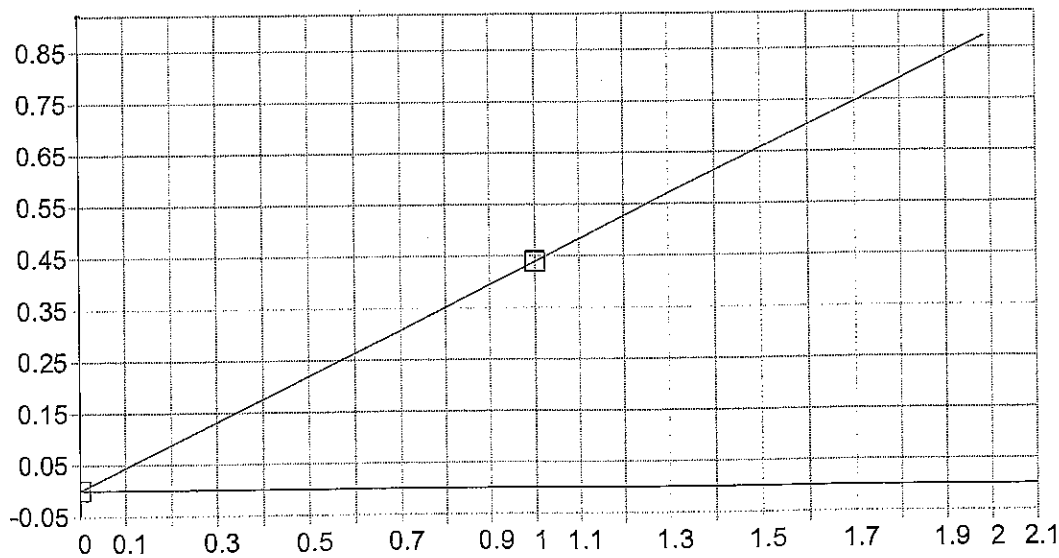


Co 228.616 {447}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000890	Re-Slope:	1.000000
A1 (Gain):	1.384984	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000279		
Predicted MQL:	0.000930		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00089	.000	1
S1	1.0000	1.0000	.000	.000	1.3863	.016	1

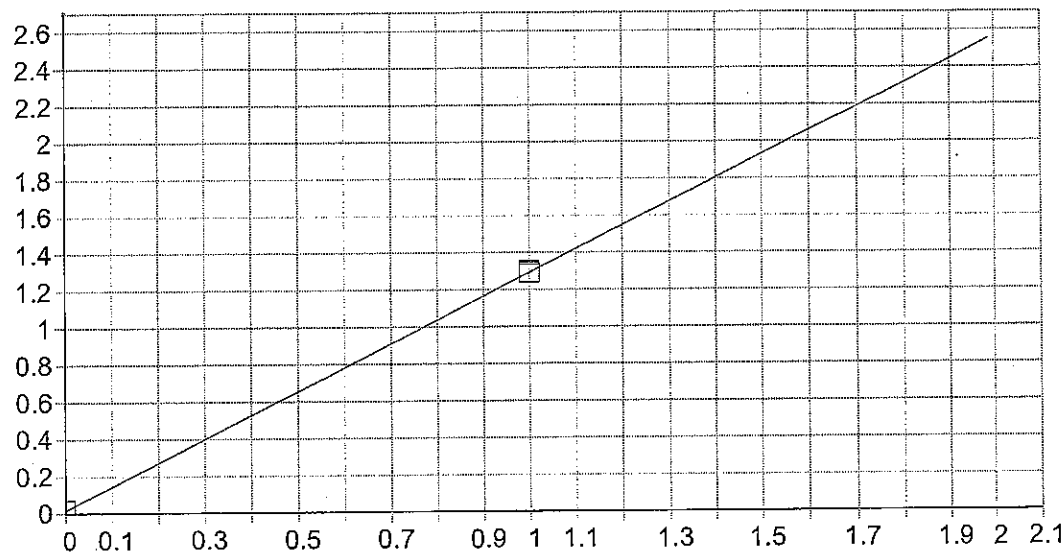


Cr 267.716 {126}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000153	Re-Slope:	1.000000
A1 (Gain):	0.438657	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000689		
Predicted MQL:	0.002296		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
S1	1.0000	1.0000	.000	.000	.43881	.002	1

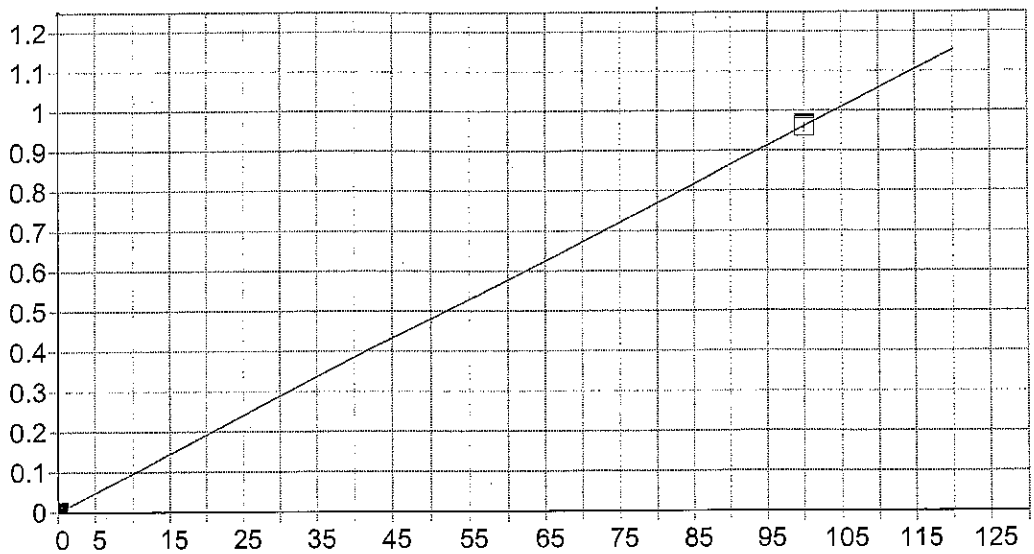


Cu 324.754 {104}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014942	Re-Slope:	1.000000
A1 (Gain):	1.277643	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000347		
Predicted MQL:	0.001157		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01494	.000	1
S1	1.0000	1.0000	.000	.000	1.2926	.010	1

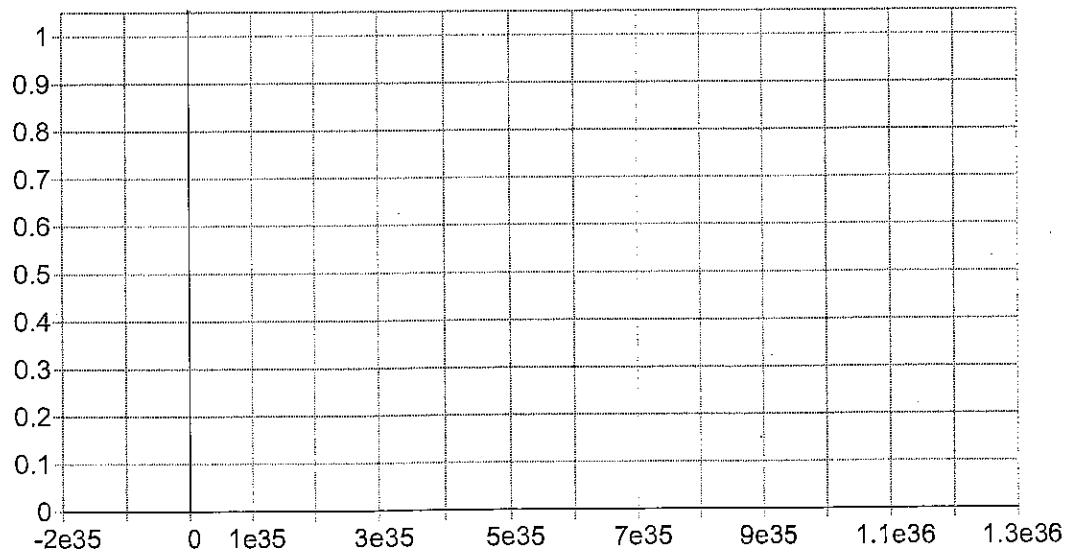


Fe 271.441 {124}

Date of Fit:	12/14/2012 14:49:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000244	Re-Slope:	1.000000
A1 (Gain):	0.009607	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.046032		
Predicted MQL:	0.153441		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00024	.000	1
S2	100.00	100.00	.000	.000	.96092	.004	1

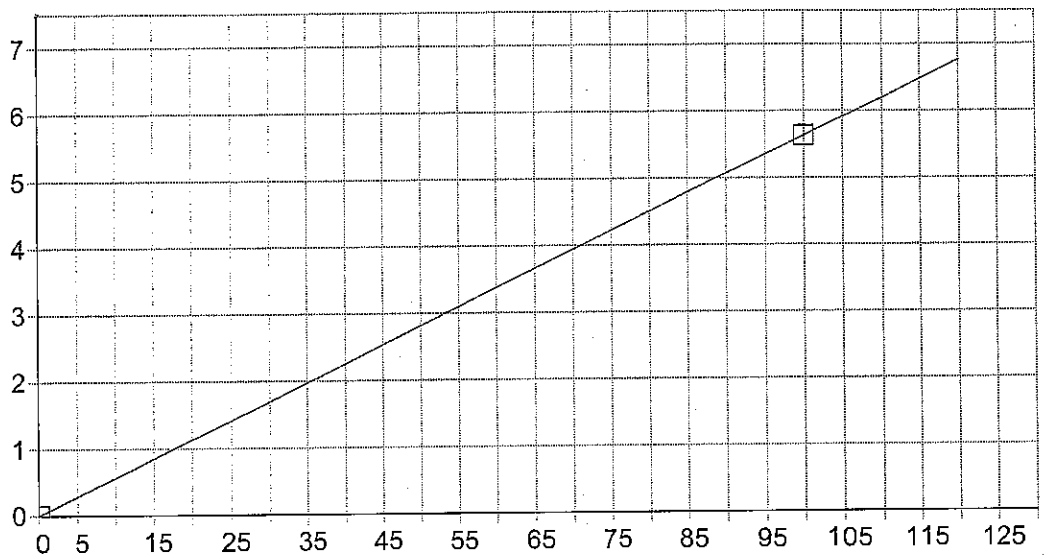


In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

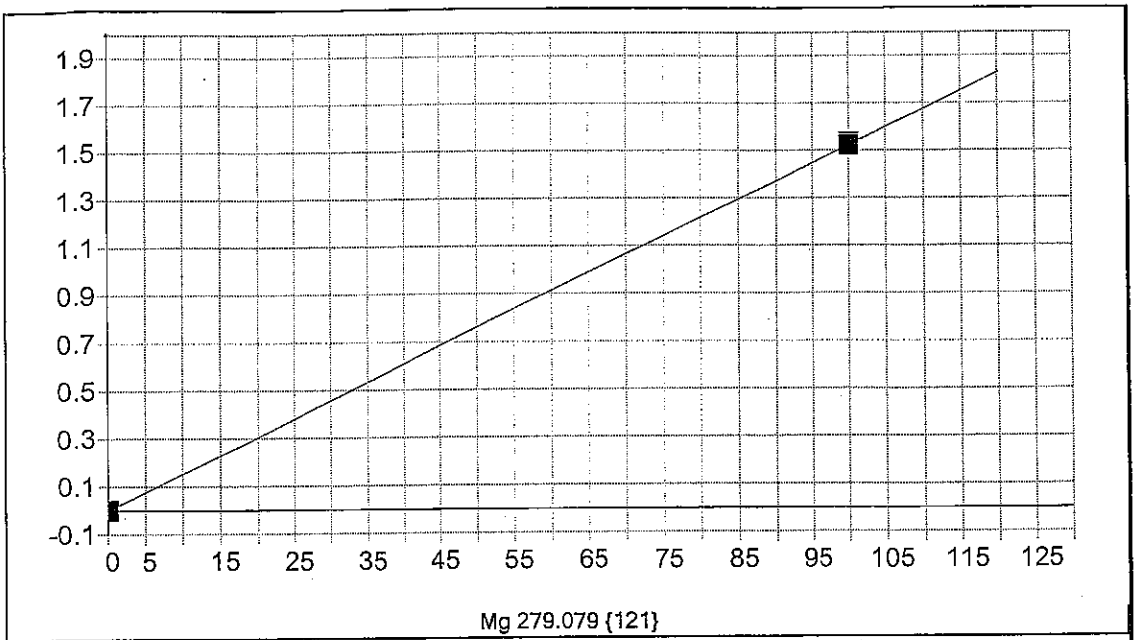


K 766.490 { 44}

Date of Fit:	12/14/2012 14:49:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002247	Re-Slope:	1.000000
A1 (Gain):	0.056307	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.028888		
Predicted MQL:	0.096292		

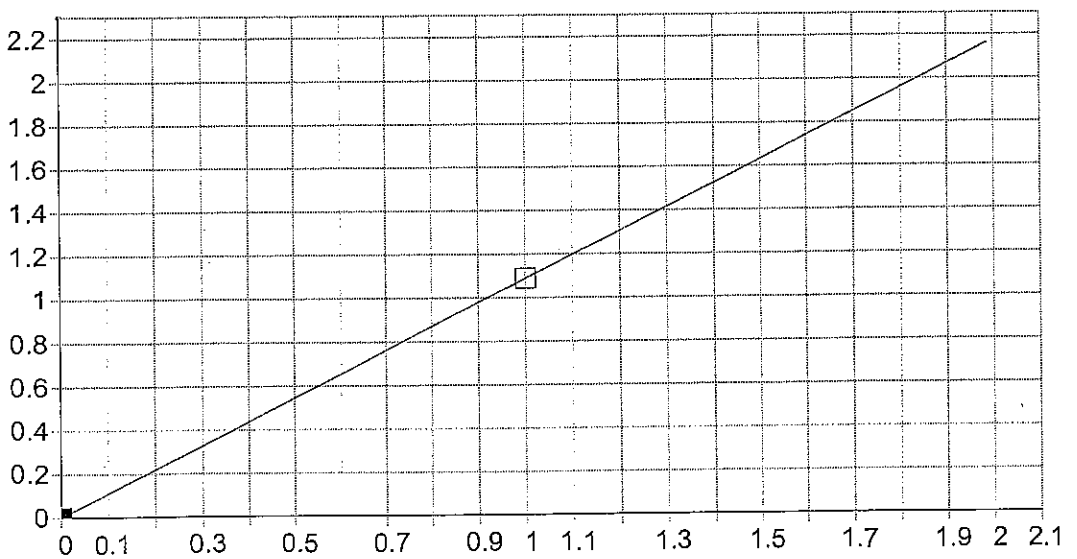
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00225	.000	1
S2	100.00	100.00	.000	.000	5.6330	.010	1



Date of Fit: 12/14/2012 14:49:29 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.000184	Re-Slope:	1.000000
A1 (Gain):	0.015221	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.021554		
Predicted MQL:	0.071847		

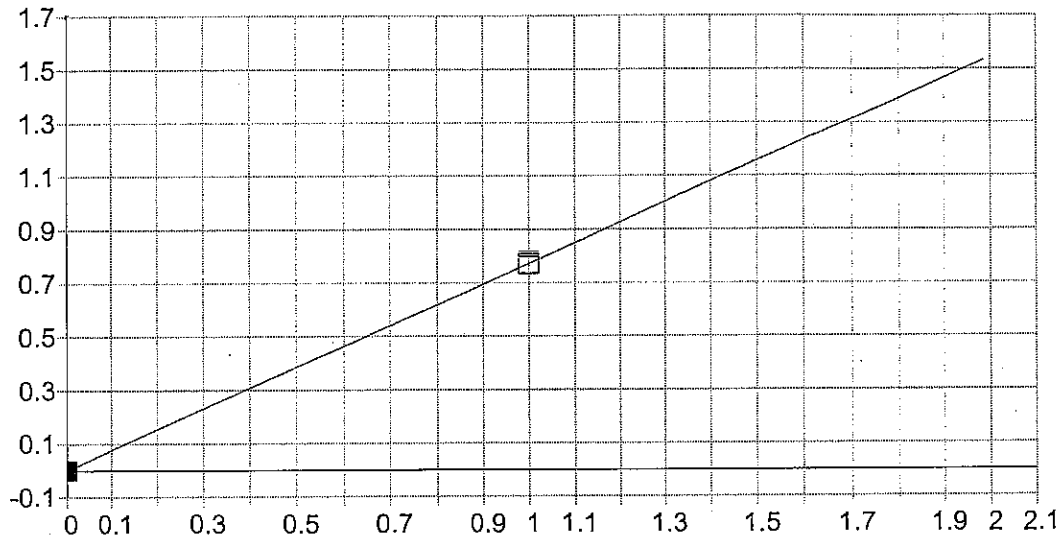
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00018	.000	1
S2	100.00	100.00	.000	.000	1.5216	.010	1



Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000589	Re-Slope:	1.000000
A1 (Gain):	1.087477	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000333		
Predicted MQL:	0.001109		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00059	.000	1
S1	1.0000	1.0000	.000	.000	1.0881	.000	1

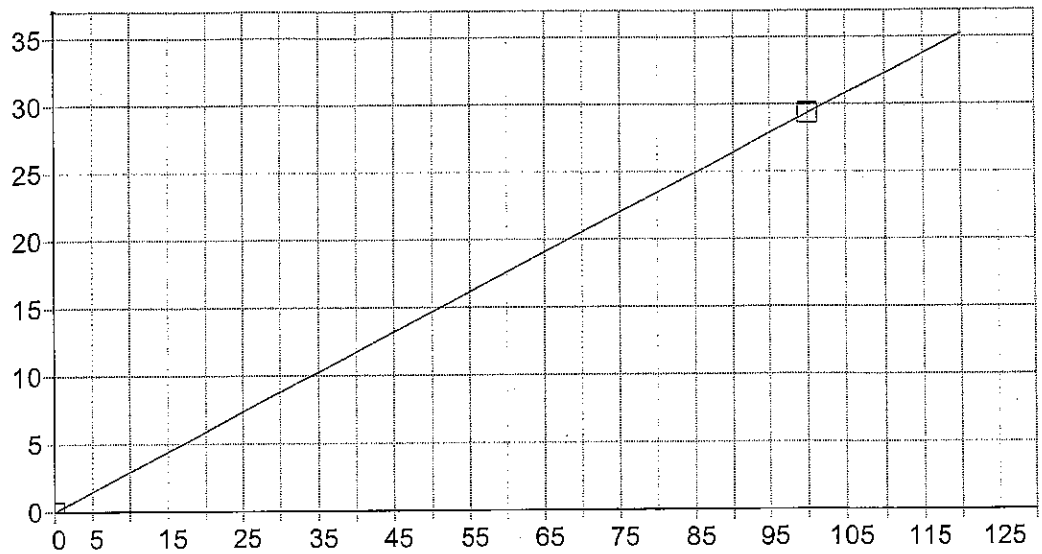


Mo 202.030 {467}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000528	Re-Slope:	1.000000
A1 (Gain):	0.771944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000381		
Predicted MQL:	0.001271		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00053	.000	1
S1	1.0000	1.0000	.000	.000	.77142	.009	1

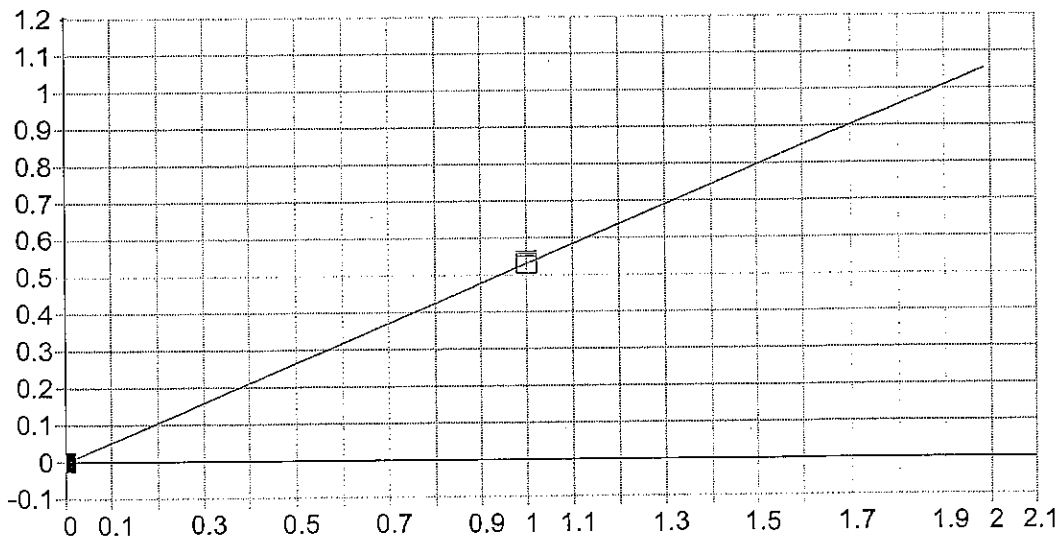


Na 589.592 { 57}

Date of Fit:	12/14/2012 14:49:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002607	Re-Slope:	1.000000
A1 (Gain):	0.293158	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006078		
Predicted MQL:	0.020261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00261	.001	1
S2	100.00	100.00	.000	.000	29.318	.078	1

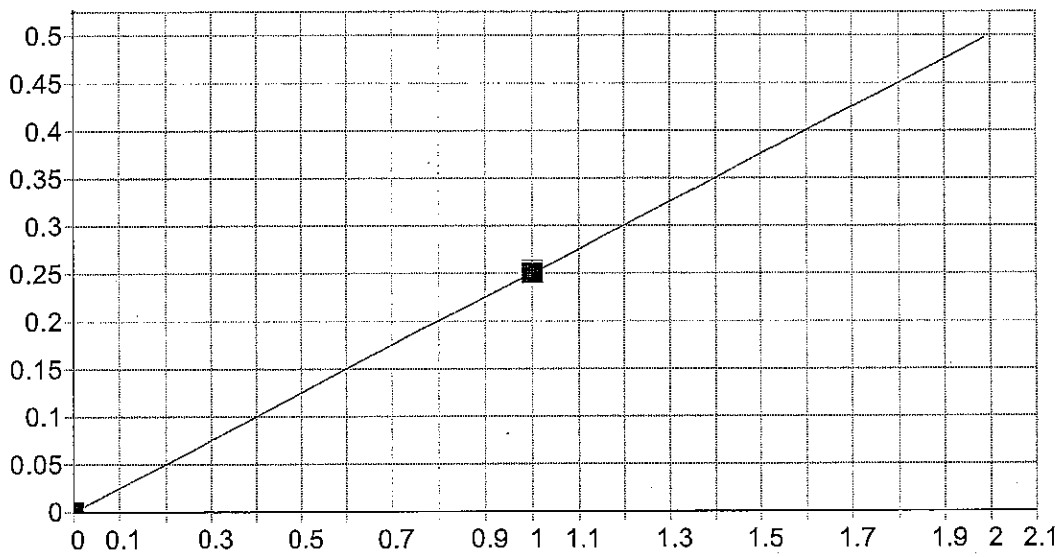


Ni 231.604 {446}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001314	Re-Slope:	1.000000
A1 (Gain):	0.531430	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000622		
Predicted MQL:	0.002073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00131	.000	1
S1	1.0000	1.0000	.000	.000	.53012	.006	1

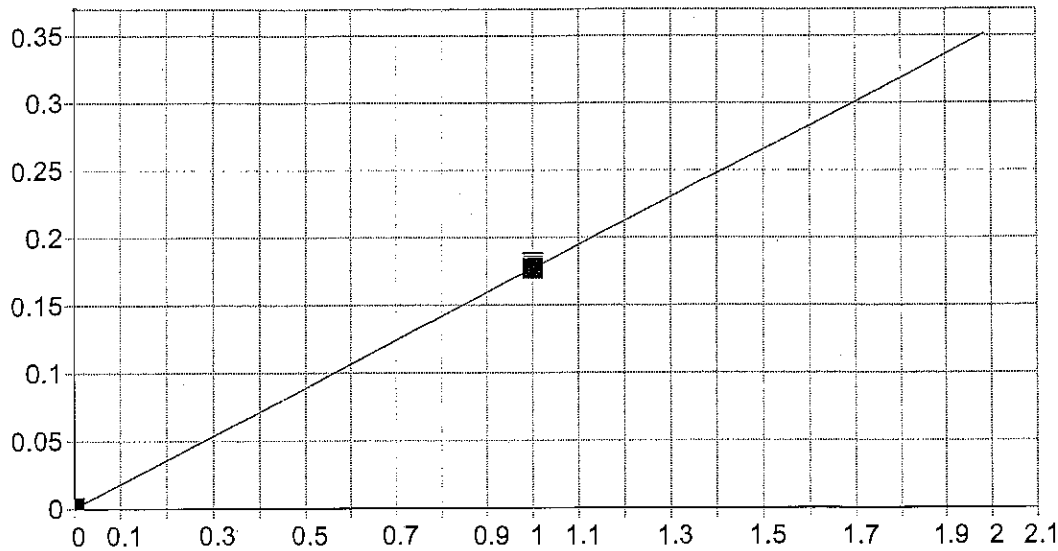


Pb 220.353 {453}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000092	Re-Slope:	1.000000
A1 (Gain):	0.250152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001570		
Predicted MQL:	0.005234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00009	.000	1
S1	1.0000	1.0000	.000	.000	.25035	.003	1

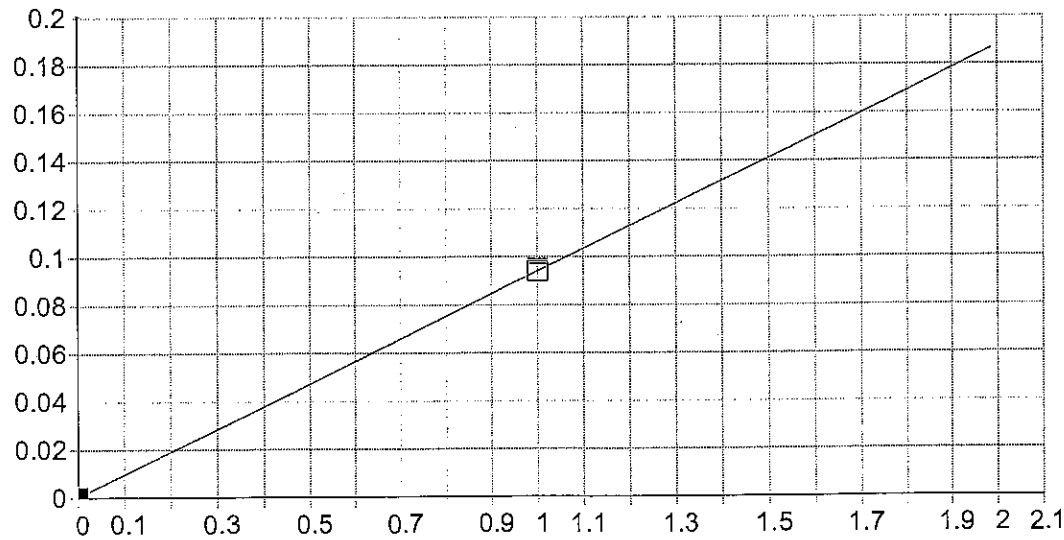


Sb 206.833 {463}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000537	Re-Slope:	1.000000
A1 (Gain):	0.176498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001647		
Predicted MQL:	0.005490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00054	.000	1
S1	1.0000	1.0000	.000	.000	.17912	.002	1

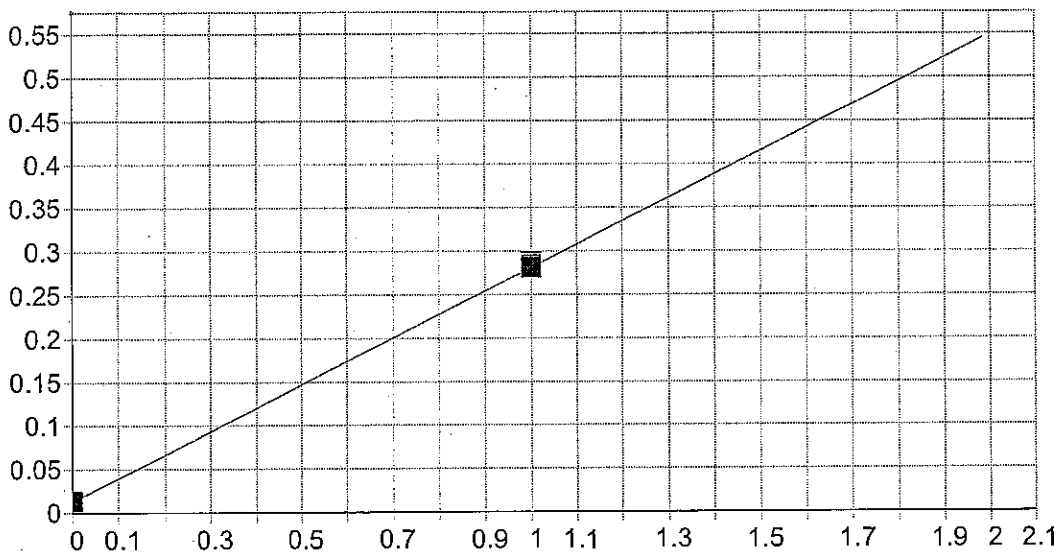


Se 196.090 {472}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000323	Re-Slope:	1.000000
A1 (Gain):	0.093706	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003115		
Predicted MQL:	0.010383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00032	.000	1
S1	1.0000	1.0000	.000	.000	.09403	.001	1

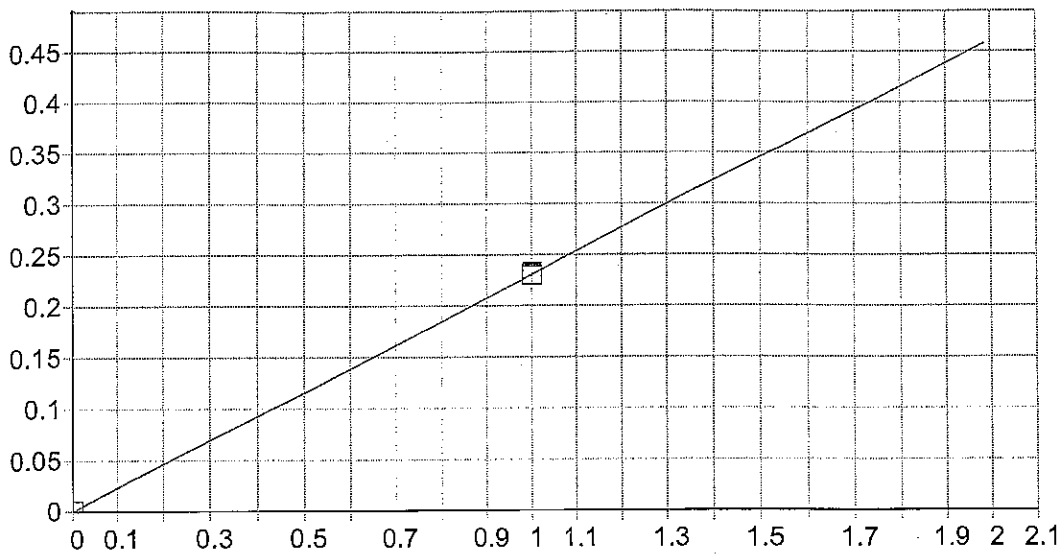


Si 212.412 {459}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012914	Re-Slope:	1.000000
A1 (Gain):	0.267879	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000991		
Predicted MQL:	0.003305		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01291	.000	1
S1	1.0000	1.0000	.000	.000	.28463	.003	1

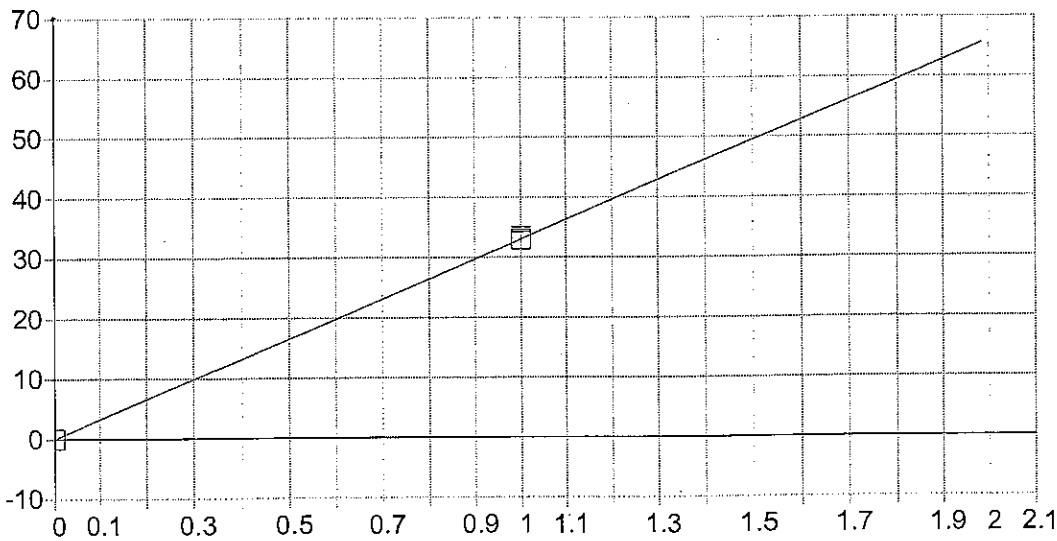


Sn 189.989 {477}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000193	Re-Slope:	1.000000
A1 (Gain):	0.230328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001241		
Predicted MQL:	0.004136		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00019	.000	1
S1	1.0000	1.0000	.000	.000	.23052	.002	1

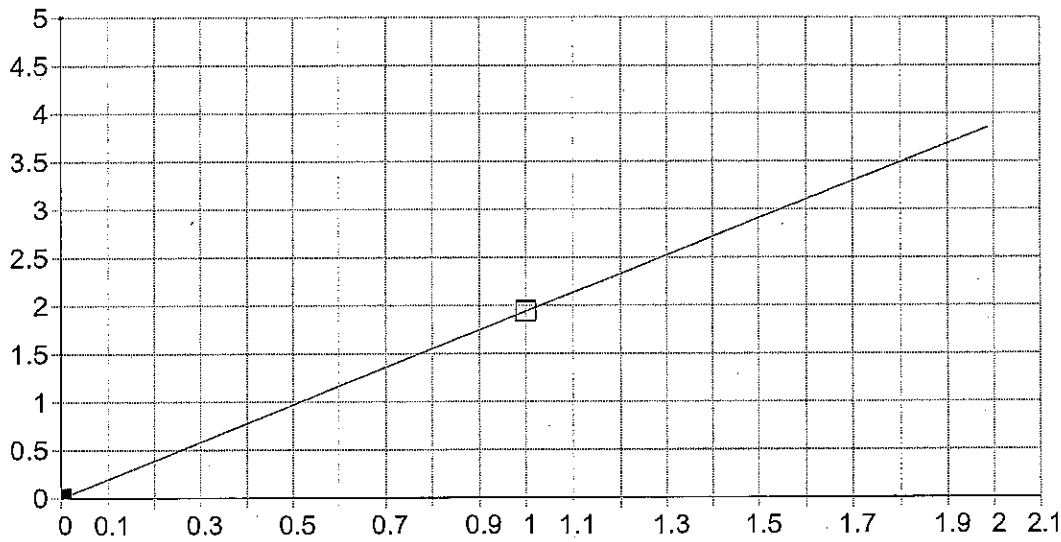


Sr 421.552 { 80}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000605	Re-Slope:	1.000000
A1 (Gain):	32.976431	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000015		
Predicted MQL:	0.000050		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00061	.000	1
S1	1.0000	1.0000	.000	.000	32.976	.366	1

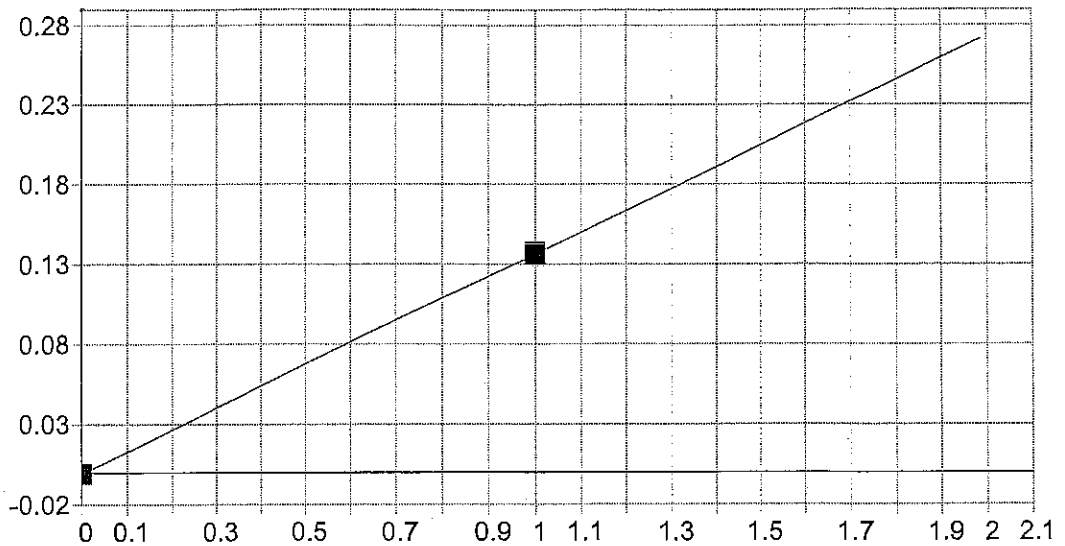


Ti 334.941 {101}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000786	Re-Slope:	1.000000
A1 (Gain):	1.938951	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000161		
Predicted MQL:	0.000535		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00079	.000	1
S1	1.0000	1.0000	.000	.000	1.9397	.010	1

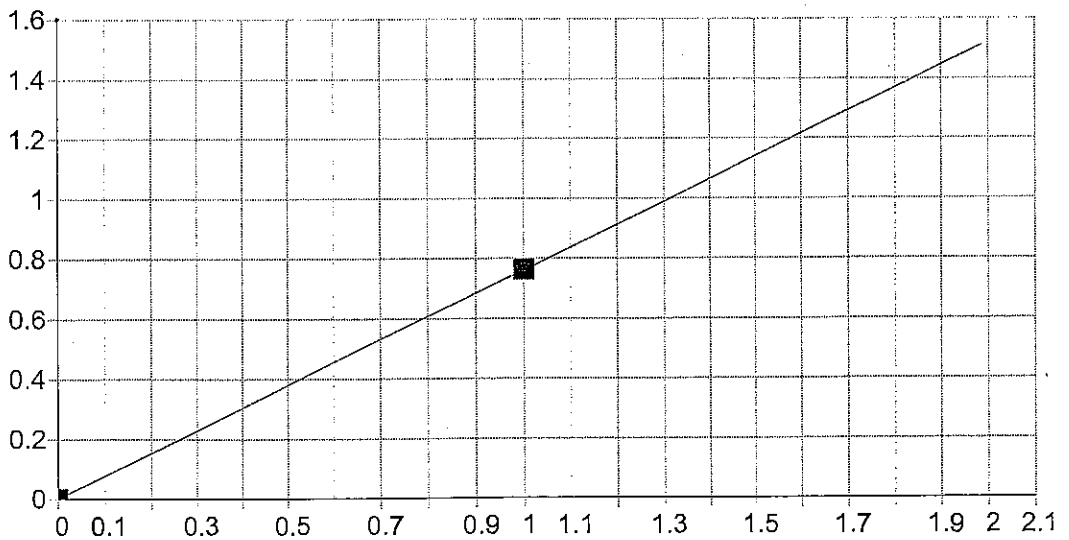


Tl 190.856 {477}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000815	Re-Slope:	1.000000
A1 (Gain):	0.136899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001312		
Predicted MQL:	0.004372		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00081	.000	1
S1	1.0000	1.0000	.000	.000	.13513	.001	1

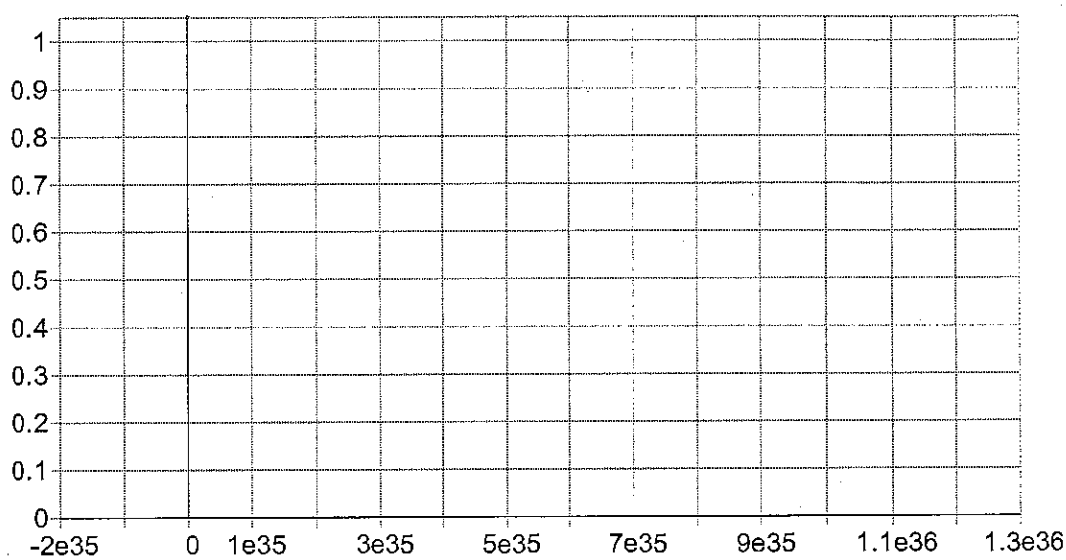


V 292.402 {115}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000625	Re-Slope:	1.000000
A1 (Gain):	0.759631	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000509		
Predicted MQL:	0.001697		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00063	.000	1
S1	1.0000	1.00000	.000	.000	.75930	.003	1

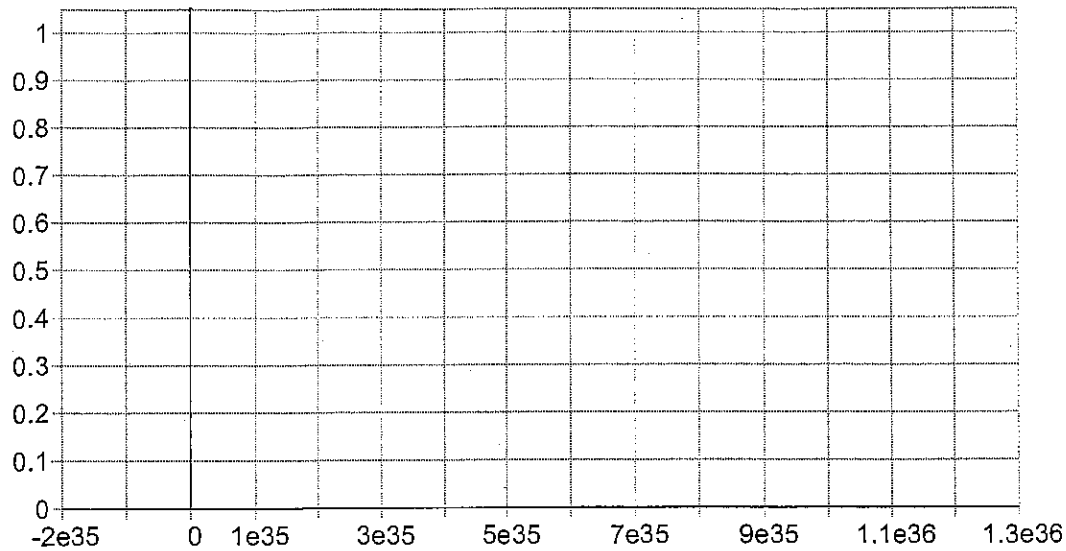


Y 224.306 {450}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

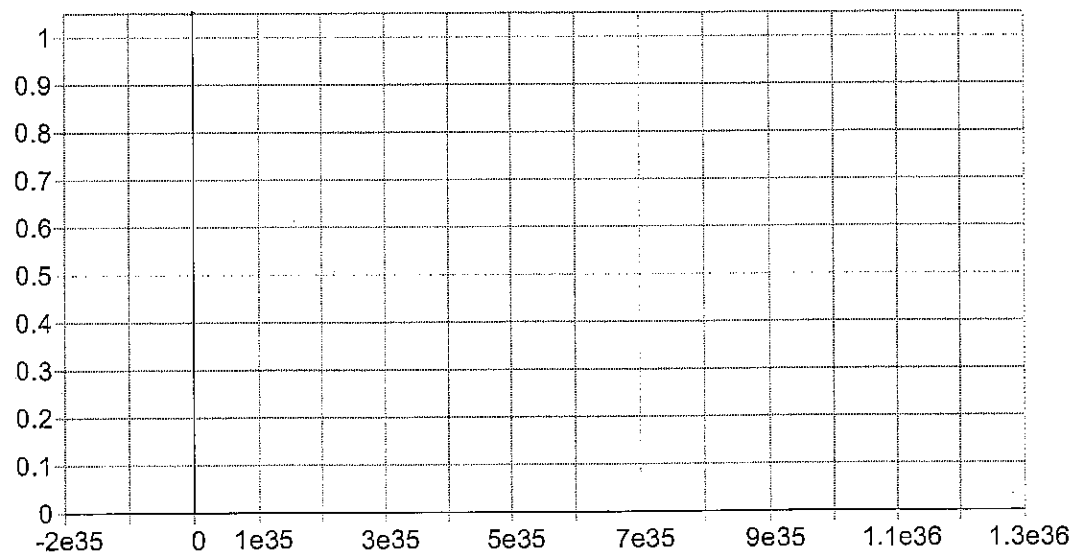


Y 360.073 { 94}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

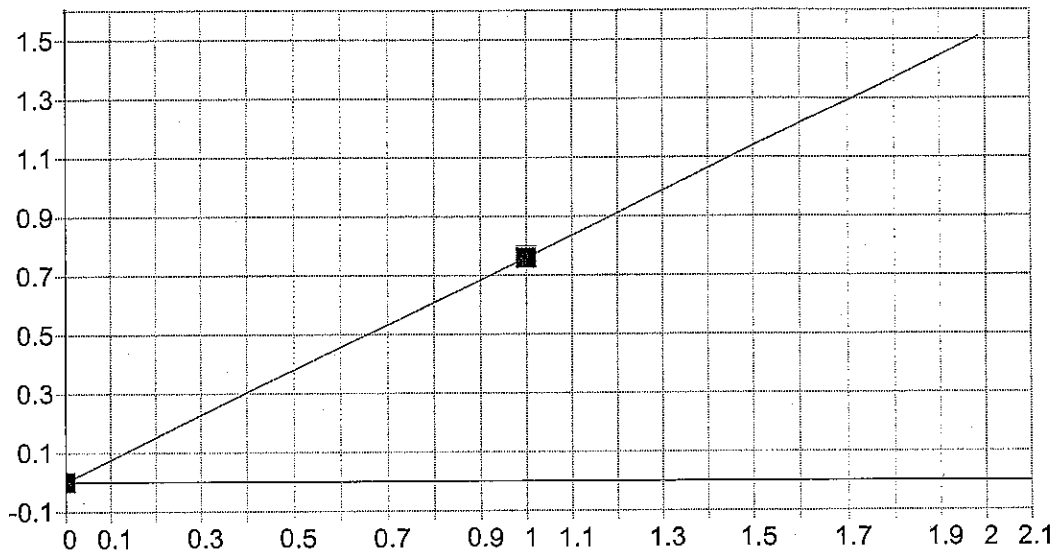


Y 371.030 { 91}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	12/14/2012 14:45:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000213	Re-Slope:	1.000000
A1 (Gain):	0.759844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000343		
Predicted MQL:	0.001143		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00021	.000	1
S1	1.0000	1.0000	.000	.000	.75922	.007	1

Sample Name: S1 Acquired: 12/14/2012 14:49:33 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.011196	.1067482	.9958499	1.000278	1.015038	1.008324	.9984154
Stddev	.012498	.0054673	.0038949	.005726	.003287	.001254	.0078896
%RSD	1.235984	5.121659	.3911140	.5724719	.3238318	.1243224	.7902164
#1	1.020033	.1106141	.9986040	1.004327	1.012714	1.007438	1.003994
#2	1.002358	.1028822	.9930958	.996229	1.017362	1.009211	.992837
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011141	.9934018	.9982456	1.007177	1.003369	-.014477	.0133031
Stddev	.0019886	.0074040	.0083264	.014223	.013122	.019781	.0026552
%RSD	178.4991	.7453146	.8341078	1.412194	1.307803	136.6411	19.95923
#1	.0025203	.9986372	1.004133	1.017235	1.012648	-.028464	.0114256
#2	-.000292	.9881664	.992358	.997120	.994090	-.000489	.0151806
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124618	1.011465	.9991065	.0334757	.9954383	.9949552	.9989810
Stddev	.0018112	.003885	.0081567	.0029136	.0085563	.0113831	.0070439
%RSD	14.53361	.3840962	.8164019	8.703618	.8595545	1.144085	.7051064
#1	.0111812	1.008718	1.004874	.0355360	1.001489	1.003004	1.003962
#2	.0137425	1.014212	.993339	.0314155	.989388	.986906	.994000
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 12/14/2012 14:49:33 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.011245	1.000476	1.001469	1.002487	1.006056	1.001912	1.002944
Stddev	.012074	.007538	.011058	.016090	.013059	.008742	.012693
%RSD	1.193989	.7534285	1.104153	1.605047	1.298043	.8725283	1.265568
#1	1.019783	1.005806	1.009288	1.013865	1.015290	1.008093	1.011919
#2	1.002707	.995146	.993650	.991110	.996822	.995730	.993969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.9974360
Stddev	.0104307
%RSD	1.045748
#1	1.004812
#2	.990060
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2927.805	2449.181	12482.82	5784.803
Stddev	19.245	14.612	130.19	.257
%RSD	.6573174	.5966133	1.042954	.0044507
#1	2914.197	2438.849	12390.76	5784.985
#2	2941.413	2459.513	12574.88	5784.621

Sample Name: S2 Acquired: 12/14/2012 14:53:29 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000965	100.1882	.0017002	.0002390	-.000230	.0000598	-.004934
Stddev	.0002725	.3145	.0001389	.0003056	.000044	.0003000	.000045
%RSD	282.2805	.3138852	8.172467	127.8264	19.09225	501.2871	.9057849
#1	-.000096	100.4106	.0016020	.0004551	-.000199	.0002719	-.004966
#2	.000289	99.9659	.0017985	.0000230	-.000262	-.000152	-.004903
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.1319	-.000076	.0009080	.0000189	.0015435	100.1773	100.3202
Stddev	.1573	.000078	.0001854	.0004515	.0001111	.0553	.4735
%RSD	.1571292	102.3842	20.42439	2392.625	7.195807	.0551782	.4719455
#1	100.0207	-.000021	.0007768	-.000300	.0016220	100.2164	100.6550
#2	100.2432	-.000131	.0010391	.000338	.0014650	100.1382	99.9854
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.5877	-.000887	.0007261	100.1895	.0019282	-.000378	.0005962
Stddev	.2404	.000023	.0000541	.6047	.0003678	.000615	.0033247
%RSD	.2390149	2.551701	7.444990	.6035243	19.07381	162.5649	557.7005
#1	100.7577	-.000903	.0007644	100.6170	.0021883	-.000813	.0029471
#2	100.4177	-.000871	.0006879	99.7619	.0016682	.000057	-.001755
Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Sample Name: S2 Acquired: 12/14/2012 14:53:29 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002437	.0014861	.0022040	.0041635	.0025344	-.002257	.0007248
Stddev	.003948	.0011946	.0008028	.0000088	.0001198	.002568	.0003361
%RSD	161.9778	80.38292	36.42404	.2109388	4.726402	113.7599	46.38047
#1	.000354	.0006414	.0016363	.0041697	.0026191	-.000442	.0004871
#2	-.005229	.0023308	.0027716	.0041573	.0024497	-.004073	.0009624
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.0001233
Stddev	.0002758
%RSD	223.7116
#1	-.000072
#2	.000318
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2424.272	2273.001	11516.80	5655.889
Stddev	12.194	9.641	1.94	.846
%RSD	.5029921	.4241662	.0168027	.0149651
#1	2432.894	2279.818	11515.43	5655.290
#2	2415.650	2266.184	11518.16	5656.487

Sample Name: ICV Acquired: 12/14/2012 14:58:23 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3854379	41.17956	.4016693	.4035439	.4012145	.4024946	.4004793
Stddev	.0179568	.24841	.0048682	.0057567	.0017557	.0000418	.0025271
%RSD	4.658795	.6032244	1.211990	1.426529	.4375860	.0103868	.6310177
#1	.3727405	41.35521	.4051116	.4076145	.4024559	.4024650	.4022662
#2	.3981352	41.00391	.3982270	.3994734	.3999730	.4025241	.3986924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.33716	.3971356	.4073870	.3853457	.3810303	20.24217	40.05971
Stddev	.02562	.0050696	.0043881	.0189734	.0176894	.01014	.13645
%RSD	.1259836	1.276538	1.077134	4.923747	4.642530	.0501130	.3406083
#1	20.31905	.4007203	.4104898	.3719295	.3685220	20.23500	40.15619
#2	20.35528	.3935508	.4042841	.3987620	.3935386	20.24934	39.96322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.71611	3.907144	.3823562	20.23023	.4011220	.4104035	.3928726
Stddev	.05784	.003433	.0048175	.09913	.0060647	.0054619	.0038529
%RSD	.2933717	.0878541	1.259940	.4900339	1.511935	1.330871	.9806862
#1	19.67521	3.909571	.3857627	20.30033	.4054104	.4142657	.3955970
#2	19.75701	3.904717	.3789497	20.16013	.3968336	.4065414	.3901482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 12/14/2012 14:58:23 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4023495	.4266867	.4110017	.3818424	.3797612	.4043132	3.843476
Stddev	.0056587	.0051962	.0051766	.0189968	.0193720	.0030638	.192143
%RSD	1.406410	1.217793	1.259504	4.975033	5.101108	.7577729	4.999201
#1	.4063508	.4303609	.4146621	.3684096	.3660631	.4064796	3.707611
#2	.3983482	.4230124	.4073413	.3952751	.3934593	.4021468	3.979342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.4128191
Stddev	.0044977
%RSD	1.089507
#1	.4159995
#2	.4096388
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2662.562	2370.278	12318.70	5713.067
Stddev	20.500	21.810	416.36	10.290
%RSD	.7699226	.9201310	3.379923	.1801195
#1	2648.067	2354.856	12613.12	5720.343
#2	2677.058	2385.699	12024.29	5705.790

Sample Name: ICB Acquired: 12/14/2012 15:02:15 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000054	.0012231	-.000823	.0005916	-.000398	.0001312	.0005281
Stddev	.000595	.0010930	.001019	.0002448	.000001	.0000164	.0015020
%RSD	1101.095	89.36332	123.7516	41.36820	.3699000	12.51005	284.4165
#1	.000367	.0004502	-.001544	.0004186	-.000399	.0001196	.0015902
#2	-.000475	.0019959	-.000103	.0007647	-.000397	.0001428	-.000534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093449	.0000543	-.000023	-.000283	-.000463	-.013110	.0204057
Stddev	.0024647	.0000345	.000024	.000170	.000044	.020531	.0092798
%RSD	26.37446	63.60888	102.8437	59.92183	9.417401	156.6063	45.47639
#1	.0076021	.0000299	-.000040	-.000403	-.000432	-.027628	.0269675
#2	.0110877	.0000787	-.000006	-.000163	-.000494	.001408	.0138439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068949	-.000281	.0003593	.0431167	.0006339	-.000151	-.000176
Stddev	.0196048	.000166	.0002867	.0065709	.0005433	.000158	.001041
%RSD	284.3388	59.19059	79.78310	15.23974	85.70936	104.7650	591.6778
#1	.0207575	-.000163	.0005621	.0384704	.0010180	-.000263	.000560
#2	-.006968	-.000398	.0001566	.0477630	.0002497	-.000039	-.000912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 12/14/2012 15:02:15 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000380	.0012094	.0008606	.0000618	-.000095	.0003051	.0001555
Stddev	.001486	.0009371	.0008766	.0000079	.000064	.0004937	.0000605
%RSD	391.3020	77.48881	101.8649	12.71973	67.52913	161.8258	38.94425
#1	-.001430	.0018721	.0002407	.0000562	-.000140	-.000044	.0001126
#2	.000671	.0005467	.0014804	.0000673	-.000050	.000654	.0001982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0012995
Stddev	.0000082
%RSD	.6338665
#1	.0012936
#2	.0013053
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.950	2437.333	12488.69	5760.374
Stddev	27.328	16.006	56.12	20.203
%RSD	.9365569	.6566997	.4493416	.3507244
#1	2898.626	2426.015	12528.37	5774.660
#2	2937.274	2448.651	12449.01	5746.088

Sample Name: CRI Acquired: 12/14/2012 15:05:28 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099745	.4172465	.0161267	.0981606	.0197557	.0078316	.0966989
Stddev	.0000216	.0031107	.0015876	.0006871	.0000673	.0001540	.0003000
%RSD	.2168575	.7455290	9.844526	.7000312	.3407579	1.966854	.3102392
#1	.0099592	.4150469	.0172493	.0986465	.0198033	.0077226	.0969110
#2	.0099898	.4194461	.0150041	.0976747	.0197081	.0079405	.0964867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4035904	.0039403	.0095251	.0195452	.0193840	.4321484	.9881334
Stddev	.0032540	.0000929	.0000201	.0004500	.0000685	.0189233	.0069019
%RSD	.8062537	2.357067	.2112584	2.302494	.3533393	4.378893	.6984747
#1	.4012895	.0038746	.0095109	.0198634	.0194324	.4187675	.9930138
#2	.4058913	.0040059	.0095394	.0192269	.0193356	.4455292	.9832530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048926	.0193855	.0189308	2.009468	.0197749	.0092368	.0375617
Stddev	.0018592	.0000579	.0000305	.001536	.0005973	.0014485	.0002350
%RSD	.9073942	.2986004	.1610080	.0764207	3.020384	15.68140	.6257586
#1	.2062072	.0193445	.0189524	2.008382	.0201973	.0082125	.0377279
#2	.2035779	.0194264	.0189093	2.010554	.0193526	.0102610	.0373955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 12/14/2012 15:05:28 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195705	.3886830	.0769866	.0100597	.0099018	.0187051	.0094309
Stddev	.0019867	.0031145	.0003316	.0000779	.0001371	.0001782	.0004691
%RSD	10.15165	.8013010	.4307543	.7739348	1.384557	.9528890	4.973907
#1	.0181657	.3908852	.0772211	.0100046	.0098049	.0188312	.0090992
#2	.0209754	.3864806	.0767521	.0101147	.0099988	.0185791	.0097626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.0396349
Stddev	.0004626
%RSD	1.167138
#1	.0399620
#2	.0393078
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2919.504	2449.648	12401.28	5737.246
Stddev	14.970	14.202	33.70	33.756
%RSD	.5127709	.5797469	.2717761	.5883653
#1	2908.918	2439.606	12425.11	5761.116
#2	2930.090	2459.690	12377.45	5713.377

Sample Name: ICSA Acquired: 12/14/2012 15:09:32 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000310	502.6685	.0050235	.0000612	-.000102	.0002577	-.011135
Stddev	.000440	.7892	.0011921	.0002219	.000143	.0000178	.000102
%RSD	141.8547	.1570020	23.73170	362.5994	141.3101	6.919375	.9203898
#1	.000001	502.1104	.0041805	-.000096	-.000000	.0002451	-.011208
#2	-.000622	503.2265	.0058664	.000218	-.000203	.0002703	-.011063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	473.0795	-.000583	-.002300	.0015168	.0033187	190.3757	.0072909
Stddev	2.2964	.000230	.000231	.0000806	.0003615	.4958	.0177996
%RSD	.4854161	39.48555	10.03891	5.317352	10.89277	.2604387	244.1342
#1	471.4557	-.000745	-.002463	.0014598	.0030631	190.0251	.0198771
#2	474.7033	-.000420	-.002137	.0015738	.0035744	190.7263	-.005295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	513.5524	-.000210	-.000844	.0711781	-.000816	.0035133	.0042149
Stddev	1.0011	.000065	.000791	.0045488	.000243	.0001851	.0022491
%RSD	.1949326	31.05097	93.67254	6.390717	29.73468	5.267662	53.36075
#1	512.8445	-.000164	-.000285	.0679616	-.000988	.0036441	.0026246
#2	514.2602	-.000256	-.001404	.0743946	-.000645	.0033824	.0058053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 12/14/2012 15:09:32 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006075	.0002390	.0095869	.0021917	.0030524	-.009118	.0026431
Stddev	.002937	.0017559	.0042532	.0000067	.0000429	.001391	.0001861
%RSD	48.33933	734.7016	44.36488	.3040780	1.406023	15.25451	7.039683
#1	-.008152	.0014806	.0065794	.0021870	.0030827	-.008135	.0027747
#2	-.003999	-.001003	.0125944	.0021964	.0030220	-.010102	.0025115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.000980
Stddev	.001430
%RSD	145.9470
#1	.000031
#2	-.001991
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2157.280	2122.347	10740.42	5412.013
Stddev	11.824	16.297	3.68	18.194
%RSD	.5481071	.7678686	.0342488	.3361830
#1	2165.641	2133.871	10737.82	5424.878
#2	2148.919	2110.824	10743.03	5399.148

Sample Name: ICSAB Acquired: 12/14/2012 15:14:35 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2237115	512.8109	.1067748	-.000730	.5057147	.5137628	-.012300
Stddev	.0016278	4.5687	.0002038	.000405	.0041673	.0042055	.002176
%RSD	.7276146	.8909048	.1908958	55.45954	.8240368	.8185645	17.69531
#1	.2248625	509.5804	.1069189	-.000444	.5027680	.5107891	-.013839
#2	.2225605	516.0414	.1066306	-.001016	.5086614	.5167365	-.010761
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	473.9041	1.007088	.5100496	.4793300	.5438445	191.8322	-.019939
Stddev	4.0385	.000044	.0003429	.0018158	.0019985	1.9823	.016025
%RSD	.8521811	.0043805	.0672283	.3788157	.3674830	1.033372	80.36822
#1	471.0484	1.007119	.5102921	.4806140	.5452577	190.4305	-.031271
#2	476.7597	1.007057	.5098072	.4780461	.5424313	193.2339	-.008608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	516.2855	.4695975	-.000392	.0867633	.9845802	.0539200	.5954985
Stddev	5.2549	.0052375	.000302	.0027255	.0000787	.0002805	.0040446
%RSD	1.017826	1.115307	77.09525	3.141336	.0079958	.5202032	.6791995
#1	512.5697	.4658941	-.000605	.0848361	.9846359	.0537216	.5983585
#2	520.0012	.4733010	-.000178	.0886905	.9845246	.0541183	.5926385
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 12/14/2012 15:14:35 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0424535	-.000148	.0103670	.0022417	.0040381	.0873479	.4910598
Stddev	.0016793	.004623	.0013038	.0000069	.0002028	.0024282	.0030677
%RSD	3.955658	3113.567	12.57617	.3090795	5.021707	2.779871	.6247150
#1	.0436409	.003120	.0094451	.0022368	.0041815	.0890649	.4932290
#2	.0412660	-.003417	.0112889	.0022466	.0038947	.0856309	.4888905
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.9941085
Stddev	.0000125
%RSD	.0012545
#1	.9940997
#2	.9941173
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2172.067	2118.508	10624.78	5402.169
Stddev	2.897	.690	41.10	42.456
%RSD	.1333604	.0325532	.3867927	.7859085
#1	2170.019	2118.020	10595.72	5432.190
#2	2174.115	2118.996	10653.84	5372.148

Sample Name: CCV Acquired: 12/14/2012 15:19:26 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5068594	51.40236	.4970002	.5003039	.5007605	.5006706	.4954195
Stddev	.0009429	.25645	.0059888	.0079136	.0026353	.0009701	.0052127
%RSD	.1860207	.4988983	1.204984	1.581751	.5262508	.1937609	1.052176
#1	.5061927	51.22103	.5012349	.5058996	.4988971	.4999847	.4991054
#2	.5075261	51.58370	.4927655	.4947081	.5026239	.5013566	.4917336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.08101	.4930336	.5079471	.4989614	.4912932	25.31196	50.58598
Stddev	.07342	.0085326	.0081429	.0018485	.0000345	.13313	.27073
%RSD	.2927250	1.730628	1.603103	.3704622	.0070205	.5259379	.5351852
#1	25.02909	.4990670	.5137050	.4976543	.4913176	25.21783	50.39455
#2	25.13292	.4870002	.5021892	.5002685	.4912688	25.40610	50.77742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.71544	4.838786	.4775297	25.37963	.4976860	.5127098	.4910542
Stddev	.07173	.017793	.0072636	.14146	.0086441	.0064236	.0087208
%RSD	.2902384	.3677099	1.521074	.5573573	1.736864	1.252870	1.775942
#1	24.66471	4.826205	.4826658	25.27961	.5037983	.5172520	.4972207
#2	24.76616	4.851368	.4723936	25.47966	.4915737	.5081676	.4848876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/14/2012 15:19:26 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5074270	.5192426	.5159697	.4814938	.4933510	.5041485	4.938133
Stddev	.0091272	.0103346	.0079699	.0006783	.0011704	.0069277	.003716
%RSD	1.798720	1.990329	1.544638	.1408678	.2372321	1.374138	.0752440
#1	.5138809	.5265503	.5216053	.4810142	.4925234	.5090471	4.935505
#2	.5009731	.5119349	.5103342	.4819734	.4941785	.4992499	4.940760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5151246
Stddev	.0065796
%RSD	1.277282
#1	.5197771
#2	.5104721
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2618.968	2347.443	11859.49	5648.291
Stddev	31.859	31.479	2.80	19.623
%RSD	1.216481	1.340996	.0235938	.3474117
#1	2596.441	2325.184	11861.47	5662.166
#2	2641.496	2369.702	11857.51	5634.415

Sample Name: CCB Acquired: 12/14/2012 15:23:23 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000124	.0151741	.0002271	.0004385	-.000325	-.000087	.0003338
Stddev	.000375	.0082182	.0006099	.0000013	.000079	.000274	.0002057
%RSD	301.7140	54.15968	268.5499	.3033285	24.34118	316.3538	61.61572
#1	-.000389	.0209853	.0006583	.0004394	-.000269	.000107	.0001884
#2	.000141	.0093629	-.000204	.0004376	-.000381	-.000280	.0004793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040060	.0001261	-.000159	.0001541	-.000162	-.019527	-.005723
Stddev	.0039299	.0001235	.000057	.0006801	.000143	.075965	.020655
%RSD	98.10026	97.96332	36.09861	441.2362	88.38891	389.0283	360.8934
#1	.0012272	.0000387	-.000199	-.000327	-.000061	.034188	.008882
#2	.0067849	.0002134	-.000118	.000635	-.000264	-.073242	-.020328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208554	-.000180	.0005506	.0203118	.0001131	-.000717	.0010623
Stddev	.0158449	.000117	.0000665	.0072843	.0002521	.000536	.0000966
%RSD	75.97497	64.91406	12.07932	35.86218	222.8356	74.68700	9.093607
#1	.0320595	-.000097	.0005036	.0254626	.0002914	-.000338	.0011307
#2	.0096514	-.000262	.0005976	.0151611	-.000065	-.001096	.0009940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/14/2012 15:23:23 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003393	.0007669	-.000348	.0000225	-.000118	.0014893	-.000012
Stddev	.000778	.0006845	.000600	.0000052	.000088	.0006641	.000030
%RSD	22.93550	89.25561	172.6716	22.89342	74.66629	44.59408	236.5899
#1	-.002843	.0012508	-.000772	.0000262	-.000055	.0019589	-.000033
#2	-.003944	.0002829	.000077	.0000189	-.000180	.0010197	.000008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0002196
Stddev	.0000677
%RSD	30.82682
#1	.0001717
#2	.0002675
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2920.524	2425.613	12445.13	5644.001
Stddev	27.966	25.699	160.74	4.293
%RSD	.9575624	1.059493	1.291602	.0760635
#1	2900.750	2407.441	12331.47	5640.965
#2	2940.299	2443.785	12558.80	5647.036

Sample Name: MRL Acquired: 12/14/2012 15:26:37 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053266	.2152366	.0091864	.0499633	.0098154	.0040418	.0489653
Stddev	.0005341	.0142539	.0012256	.0012039	.0001860	.0001685	.0004138
%RSD	10.02723	6.622444	13.34120	2.409460	1.895039	4.168702	.8451722
#1	.0057043	.2253156	.0083198	.0508146	.0096839	.0041609	.0492580
#2	.0049490	.2051575	.0100530	.0491121	.0099469	.0039226	.0486727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2076895	.0020914	.0047433	.0091667	.0093622	.1932157	.4869947
Stddev	.0005636	.0000096	.0000671	.0006990	.0001881	.0109052	.0120130
%RSD	.2713874	.4611197	1.413556	7.625687	2.009433	5.644050	2.466766
#1	.2080880	.0020982	.0047907	.0096610	.0094952	.2009269	.4785002
#2	.2072909	.0020846	.0046959	.0086724	.0092292	.1855046	.4954892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1026814	.0099603	.0098155	1.027033	.0103096	.0040728	.0210108
Stddev	.0080884	.0000133	.0003522	.000150	.0001149	.0005630	.0014753
%RSD	7.877174	.1330101	3.587844	.0145666	1.114228	13.82411	7.021582
#1	.0969620	.0099509	.0100645	1.027139	.0102283	.0044709	.0220539
#2	.1084007	.0099697	.0095665	1.026927	.0103908	.0036747	.0199676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: MRL Acquired: 12/14/2012 15:26:37 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098540	.1978548	.0394132	.0049935	.0047904	.0095619	.0051164
Stddev	.0008105	.0043277	.0011105	.0000321	.0000199	.0001415	.0002013
%RSD	8.225205	2.187317	2.817701	.6419877	.4151918	1.479422	3.934743
#1	.0092809	.2009150	.0401984	.0050162	.0047764	.0094618	.0052587
#2	.0104271	.1947947	.0386279	.0049708	.0048045	.0096619	.0049740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0200401
Stddev	.0006470
%RSD	3.228443
#1	.0204976
#2	.0195827
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.887	2412.411	12439.43	5607.840
Stddev	54.784	41.125	66.82	27.059
%RSD	1.887242	1.704719	.5371283	.4825142
#1	2864.148	2383.331	12392.19	5626.973
#2	2941.625	2441.490	12486.68	5588.706

Sample Name: MB 500-172932/1-A Acquired: 12/14/2012 15:30:42 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000339	.0081436	-.001938	.0008342	-.000394	-.000026	-.004184
Stddev	.0003611	.0095133	.001111	.0000447	.000045	.000227	.000168
%RSD	1064.113	116.8191	57.29101	5.361177	11.51123	887.7205	4.009379
#1	.0002893	.0148705	-.001153	.0008659	-.000362	.000135	-.004065
#2	-.000221	.0014167	-.002724	.0008026	-.000426	-.000186	-.004303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240401	.0002156	-.000035	-.000464	.0014904	-.022474	.0011905
Stddev	.0020654	.0000699	.000197	.000016	.0002585	.047838	.0065527
%RSD	8.591273	32.40787	566.9172	3.477452	17.34363	212.8581	550.4269
#1	.0255006	.0002650	.000105	-.000452	.0013076	-.056301	.0058239
#2	.0225797	.0001662	-.000174	-.000475	.0016731	.011353	-.003443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074862	-.000114	.0005524	.0305252	-.001198	-.001054	.0015815
Stddev	.0190189	.000134	.0001434	.0015527	.000047	.000439	.0001684
%RSD	254.0538	117.7303	25.95238	5.086679	3.936947	41.62766	10.64980
#1	.0209346	-.000209	.0006538	.0316232	-.001231	-.000744	.0014624
#2	-.005962	-.000019	.0004510	.0294273	-.001164	-.001364	.0017006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: MB 500-172932/1-A Acquired: 12/14/2012 15:30:42 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010874	.0053641	.0012650	.0000830	-.000098	-.001340	-.000195
Stddev	.0005309	.0005861	.0002517	.0000104	.000122	.000327	.000236
%RSD	48.82535	10.92701	19.89918	12.52524	124.0689	24.42779	121.0912
#1	.0007120	.0049496	.0014430	.0000904	-.000185	-.001571	-.000361
#2	.0014629	.0057785	.0010870	.0000757	-.000012	-.001109	-.000028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0009479
Stddev	.0002751
%RSD	29.01892
#1	.0011424
#2	.0007534
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2898.912	2410.230	12471.62	5602.710
Stddev	1.761	1.548	11.04	1.269
%RSD	.0607340	.0642085	.0885368	.0226469
#1	2897.668	2411.325	12479.42	5603.607
#2	2900.158	2409.136	12463.81	5601.813

Sample Name: LCS 500-172932/2-A Acquired: 12/14/2012 15:33:56 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492083	2.101463	.0932438	.9322873	2.064246	.0499921	.4707082
Stddev	.0004365	.001110	.0012444	.0030450	.003949	.0000042	.0028657
%RSD	.8870278	.0528356	1.334578	.3266128	.1913249	.0083146	.6088125
#1	.0488997	2.102248	.0923639	.9344404	2.061454	.0499950	.4727346
#2	.0495170	2.100678	.0941238	.9301341	2.067039	.0499891	.4686818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.24892	.0483839	.4899546	.1984090	.2454330	1.034057	10.24543
Stddev	.02072	.0001429	.0040011	.0018630	.0005355	.019935	.00784
%RSD	.2021495	.2953970	.8166258	.9389634	.2181766	1.927853	.0765459
#1	10.23427	.0484850	.4927838	.1997263	.2458116	1.048154	10.23989
#2	10.26357	.0482829	.4871254	.1970917	.2450544	1.019961	10.25098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09442	.4953434	.9801443	10.28819	.4829022	.0996443	.4869047
Stddev	.01206	.0014056	.0051081	.01251	.0003058	.0005613	.0023257
%RSD	.1194336	.2837544	.5211578	.1215976	.0633201	.5632733	.4776563
#1	10.10294	.4943495	.9837563	10.27934	.4826860	.1000412	.4885493
#2	10.08589	.4963373	.9765323	10.29704	.4831184	.0992474	.4852602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCS 500-172932/2-A Acquired: 12/14/2012 15:33:56 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0950840	4.953261	.9804820	.9670837	1.005737	.0953876	.4968501
Stddev	.0016685	.027528	.0046910	.0029172	.000240	.0001411	.0015577
%RSD	1.754721	.5557560	.4784375	.3016486	.0238733	.1479773	.3135238
#1	.0962637	4.972726	.9837990	.9650209	1.005907	.0952878	.4979516
#2	.0939042	4.933795	.9771649	.9691465	1.005567	.0954874	.4957486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.4793420
Stddev	.0025993
%RSD	.5422560
#1	.4811799
#2	.4775040
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2782.720	2362.523	12140.15	5594.080
Stddev	16.830	9.653	7.94	4.580
%RSD	.6047904	.4085757	.0654323	.0818791
#1	2770.820	2355.698	12134.53	5597.319
#2	2794.620	2369.349	12145.77	5590.841

Sample Name: 500-53234-J-1-A Acquired: 12/14/2012 16:02:17 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001808	.2504505	-.002135	.4878251	.1210268	-.000048
Stddev	.0001839	.0129337	.000420	.0004647	.0004917	.000057
%RSD	101.6776	5.164171	19.68423	.0952542	.4063032	119.3292
#1	.0000508	.2413050	-.002432	.4881536	.1213745	-.000007
#2	.0003108	.2595960	-.001838	.4874965	.1206791	-.000088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018566	207.0148	.0011266	.0002965	.0019556	.2914761
Stddev	.002496	.1132	.0001115	.0001143	.0008783	.0001718
%RSD	13.44390	.0546640	9.897704	38.53411	44.91336	.0589504
#1	-.020331	206.9348	.0012055	.0003773	.0025767	.2915976
#2	-.016801	207.0948	.0010478	.0002157	.0013345	.2913546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0966414	122.1915	.4001736	.0029832	.6716115	530.9818
Stddev	.0065139	.6874	.0180279	.0003352	.0001731	1.4127
%RSD	6.740303	.5625752	4.505026	11.23674	.0257735	.2660522
#1	.0920353	122.6775	.3874260	.0027461	.6714891	531.9808
#2	.1012474	121.7054	.4129213	.0032202	.6717339	529.9829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53234-J-1-A Acquired: 12/14/2012 16:02:17 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042951	F -.009766	.0220990	.0496308	10.06034	.0018653
Stddev	.0003660	.000325	.0008931	.0004106	.00225	.0015273
%RSD	8.521910	3.327707	4.041294	.8272606	.0223497	81.88026
#1	.0040363	-.009536	.0227306	.0499211	10.05875	.0007853
#2	.0045539	-.009996	.0214675	.0493404	10.06193	.0029453
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		100.0000				
Low Limit		-.005000				

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.112542	.0055032	-.003641	.0623205	.0944875
Stddev	.002267	.0002230	.001276	.0003821	.0003985
%RSD	.2037921	4.052376	35.03921	.6131825	.4217255
#1	1.110939	.0056609	-.002739	.0620503	.0947692
#2	1.114145	.0053455	-.004543	.0625907	.0942057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2291.707	2161.264	10792.32	5375.737
Stddev	.241	2.445	15.54	9.875
%RSD	.0105211	.1131294	.1439921	.1836908
#1	2291.536	2159.535	10781.33	5368.755
#2	2291.877	2162.993	10803.31	5382.720

Sample Name: CCV Acquired: 12/14/2012 16:07:27 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5034187	51.58740	.4906226	.4898216	.4981739	.5053481	.4890128
Stddev	.0007568	.03523	.0000157	.0009090	.0015110	.0003078	.0011286
%RSD	.1503303	.0682885	.0031924	.1855855	.3033126	.0608992	.2307888
#1	.5028836	51.56249	.4906336	.4904643	.4971055	.5051305	.4898108
#2	.5039538	51.61231	.4906115	.4891788	.4992424	.5055657	.4882147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.51188	.4884782	.5055927	.4995322	.4845664	25.54129	50.48386
Stddev	.00981	.0014176	.0009227	.0022241	.0004677	.01303	.08805
%RSD	.0384614	.2902039	.1824905	.4452349	.0965107	.0509963	.1744042
#1	25.51882	.4894806	.5062451	.4979595	.4848971	25.55050	50.42161
#2	25.50495	.4874758	.5049403	.5011048	.4842357	25.53208	50.54612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.94448	4.883765	.4714500	25.21369	.4955103	.5101118	.4817735
Stddev	.01798	.008481	.0002348	.05020	.0002350	.0007435	.0012822
%RSD	.0720811	.1736647	.0498047	.1990885	.0474345	.1457510	.2661369
#1	24.93176	4.889762	.4716160	25.17820	.4953441	.5095861	.4826801
#2	24.95719	4.877767	.4712839	25.24919	.4956765	.5106375	.4808668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/14/2012 16:07:27 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4936213	.5135558	.5111708	.4791091	.4907204	.4976006	4.900443
Stddev	.0018902	.0018106	.0030470	.0004182	.0015122	.0018939	.005820
%RSD	.3829294	.3525639	.5960730	.0872818	.3081617	.3806141	.1187652
#1	.4949579	.5148361	.5133254	.4794048	.4896511	.4989399	4.896327
#2	.4922847	.5122755	.5090163	.4788134	.4917897	.4962614	4.904558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5181488
Stddev	.0001497
%RSD	.0288915
#1	.5182547
#2	.5180430
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2678.026	2415.601	12077.44	5623.275
Stddev	3.959	3.963	11.40	2.549
%RSD	.1478337	.1640398	.0943757	.0453347
#1	2675.226	2412.798	12085.50	5625.078
#2	2680.825	2418.402	12069.38	5621.473

Sample Name: CCB Acquired: 12/14/2012 16:11:24 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000066	.0170303	-.000399	.0006417	-.000297	.0000790	-.000188
Stddev	.000189	.0023873	.000046	.0000417	.000079	.0000546	.000602
%RSD	286.1940	14.01785	11.50895	6.498336	26.62916	69.12387	320.3397
#1	-.000200	.0153423	-.000367	.0006122	-.000241	.0001176	-.000613
#2	.000068	.0187184	-.000432	.0006712	-.000353	.0000404	.000238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046556	.0000548	-.000005	-.000231	-.000331	-.033066	.0282208
Stddev	.0001131	.0000847	.000135	.000227	.000143	.003776	.0168949
%RSD	2.429264	154.4389	2599.359	98.51613	43.08657	11.41832	59.86690
#1	.0045756	-.000005	-.000101	-.000070	-.000230	-.035736	.0162743
#2	.0047356	.000115	.000090	-.000392	-.000432	-.030396	.0401674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165169	.0000270	.0006610	.0540780	.0000751	.0003746	.0003072
Stddev	.0214653	.0002849	.0001631	.0007197	.0001507	.0017357	.0001857
%RSD	129.9598	1055.791	24.66858	1.330809	200.5129	463.4131	60.42936
#1	.0013386	-.000174	.0005457	.0545869	-.000031	.0016019	.0001759
#2	.0316952	.000228	.0007763	.0535691	.000182	-.000853	.0004385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/14/2012 16:11:24 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003749	.0027078	.0000226	.0000754	-.000084	.0011023	.0000399
Stddev	.000537	.0014823	.0005972	.0000069	.000033	.0003987	.0001690
%RSD	14.31151	54.74085	2641.599	9.146330	39.75202	36.16873	423.8765
#1	-.003369	.0016597	.0004449	.0000803	-.000107	.0008204	.0001594
#2	-.004128	.0037560	-.000400	.0000705	-.000060	.0013842	-.000080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0000064
Stddev	.0002110
%RSD	3281.487
#1	.0001556
#2	-.000143
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2975.787	2485.349	12514.57	5632.805
Stddev	13.189	9.444	26.49	12.857
%RSD	.4432024	.3799686	.2116678	.2282547
#1	2966.461	2478.671	12533.30	5641.896
#2	2985.113	2492.026	12495.83	5623.714

Sample Name: 500-53234-J-2-A Acquired: 12/14/2012 16:14:39 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003167	2.967613	.0003005	3.348502	.0394723	.0002018
Stddev	.0002968	.002464	.0016364	.013114	.0000139	.0001922
%RSD	93.71309	.0830286	544.5365	.3916291	.0351666	95.22592
#1	.0001068	2.965871	.0014576	3.357775	.0394821	.0000659
#2	.0005265	2.969356	-.000857	3.339229	.0394625	.0003378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014302	21.12212	.0009155	.0015900	.0054283	.0289650
Stddev	.001739	.11877	.0000782	.0000614	.0006139	.0000274
%RSD	12.15882	.5622806	8.542486	3.859728	11.30895	.0946709
#1	-.015532	21.03814	.0008602	.0016334	.0058624	.0289456
#2	-.013072	21.20610	.0009708	.0015466	.0049942	.0289844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.096738	65.22588	5.129436	.0495143	.8498178	130.2167
Stddev	.042209	.10759	.019110	.0002430	.0027854	.0379
%RSD	1.363030	.1649573	.3725491	.4908420	.3277653	.0290966
#1	3.066891	65.14980	5.115924	.0493425	.8517874	130.2435
#2	3.126585	65.30196	5.142949	.0496862	.8478482	130.1899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53234-J-2-A Acquired: 12/14/2012 16:14:39 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052832	F -.023987	.0063189	.0241799	11.32984	.0029731
Stddev	.0002282	.000629	.0014119	.0013630	.01452	.0003972
%RSD	4.319051	2.622739	22.34444	5.637009	.1281950	13.35946
#1	.0051218	-.023542	.0073173	.0251437	11.34011	.0026922
#2	.0054445	-.024431	.0053205	.0232161	11.31957	.0032539
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		100.0000				
Low Limit		-.005000				

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4154407	.0791718	-.002764	.0087138	.0374244
Stddev	.0010682	.0031335	.000112	.0001686	.0001768
%RSD	.2571157	3.957822	4.045576	1.935352	.4724971
#1	.4146854	.0813875	-.002685	.0085946	.0372994
#2	.4161960	.0769561	-.002843	.0088331	.0375495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2559.697	2300.414	11597.99	5570.060
Stddev	5.854	5.807	7.58	16.969
%RSD	.2287099	.2524249	.0653674	.3046470
#1	2555.558	2296.308	11603.35	5582.059
#2	2563.837	2304.520	11592.63	5558.061

Sample Name: 500-53234-J-3-A Acquired: 12/14/2012 16:18:40 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000155	4.582924	-.000681	.7398104	.0922750	.0002497	-.005797
Stddev	.0001159	.005908	.002443	.0039747	.0000722	.0000674	.000643
%RSD	746.4197	.1289130	358.4541	.5372558	.0782887	26.99559	11.09992
#1	.0000975	4.578747	.001046	.7369999	.0922239	.0002974	-.005342
#2	-.000066	4.587102	-.002409	.7426209	.0923261	.0002020	-.006252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	213.7828	.0009754	.0044537	.0070538	.0302606	7.400268	42.91292
Stddev	.6583	.0000983	.0003467	.0001047	.0003173	.045708	.00063
%RSD	.3079483	10.08180	7.783507	1.484473	1.048606	.6176532	.0014647
#1	214.2483	.0010450	.0042085	.0071278	.0304850	7.367948	42.91248
#2	213.3173	.0009059	.0046988	.0069797	.0300362	7.432588	42.91337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	78.61888	.7256637	.0087222	58.19433	.0097245	.0128650	.0057241
Stddev	.28191	.0018619	.0003135	.17741	.0000673	.0012365	.0019410
%RSD	.3585806	.2565815	3.594258	.3048657	.6925888	9.611403	33.90863
#1	78.81822	.7269802	.0085005	58.06888	.0096769	.0119907	.0043517
#2	78.41954	.7243471	.0089439	58.31978	.0097721	.0137394	.0070966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53234-J-3-A Acquired: 12/14/2012 16:18:40 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020370	14.80312	.0011548	1.505478	.0952414	-.002907	.0096361
Stddev	.0013297	.10784	.0001974	.000673	.0014998	.001901	.0000620
%RSD	65.27907	.7284798	17.08889	.0447252	1.574779	65.38944	.6433017
#1	.0010967	14.72687	.0010153	1.505954	.0963020	-.004251	.0095923
#2	.0029772	14.87938	.0012944	1.505002	.0941809	-.001563	.0096800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0549218
Stddev	.0007870
%RSD	1.433041
#1	.0543653
#2	.0554783
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2455.696	2207.143	11348.91	5456.280
Stddev	17.163	9.672	15.59	18.478
%RSD	.6989032	.4381969	.1374051	.3386626
#1	2467.832	2213.982	11337.89	5443.214
#2	2443.560	2200.304	11359.94	5469.347

Sample Name: 500-53234-J-4-A Acquired: 12/14/2012 16:22:45 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003666	.0543496	-.000704	.5406273	.1525774	.0000798	-.006169
Stddev	.0001012	.0055039	.000612	.0007867	.0005396	.0000887	.000278
%RSD	27.61211	10.12678	87.03569	.1455238	.3536695	111.2466	4.512161
#1	.0002950	.0582414	-.000271	.5411836	.1521958	.0000170	-.006365
#2	.0004381	.0504578	-.001137	.5400710	.1529590	.0001425	-.005972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	165.0535	.0020252	.0117665	.4975566	.2529573	4.684495	4.404933
Stddev	.6857	.0000098	.0001631	.0012160	.0002188	.002772	.011280
%RSD	.4154473	.4857169	1.385803	.2443994	.0864789	.0591648	.2560801
#1	164.5687	.0020183	.0118818	.4984165	.2528026	4.686455	4.396956
#2	165.5384	.0020322	.0116512	.4966967	.2531120	4.682536	4.412909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	88.77157	.5329831	.0091898	46.26633	.5425255	.1047992	.0054361
Stddev	.41737	.0003432	.0000889	.12065	.0040574	.0005851	.0014573
%RSD	.4701672	.0643867	.9677539	.2607694	.7478638	.5583006	26.80750
#1	88.47644	.5327405	.0092527	46.18102	.5453944	.1052129	.0064665
#2	89.06670	.5332258	.0091269	46.35164	.5396565	.1043855	.0044056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53234-J-4-A Acquired: 12/14/2012 16:22:45 Type: Unk
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001172	8.394975	.0014044	.7111120	.0038559	-.002645	.0014476
Stddev	.003364	.019588	.0008143	.0013261	.0003760	.000712	.0003501
%RSD	287.0538	.2333249	57.98184	.1864868	9.750427	26.91879	24.18770
#1	-.003551	8.408825	.0019802	.7101743	.0041217	-.003148	.0012000
#2	.001207	8.381124	.0008286	.7120498	.0035900	-.002141	.0016952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.7164203
Stddev	.0055658
%RSD	.7768885
#1	.7203559
#2	.7124847
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.578	2218.458	11427.95	5436.902
Stddev	12.993	4.419	1.75	15.013
%RSD	.5144489	.1991930	.0153127	.2761374
#1	2516.391	2215.333	11429.19	5447.518
#2	2534.766	2221.583	11426.72	5426.286

Sample Name: CCV Acquired: 12/14/2012 16:54:07 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4991525	51.08686	.4939483	.4947822	.4976479	.4985894	.4887307
Stddev	.0001105	.11707	.0033980	.0030994	.0000081	.0013568	.0011453
%RSD	.0221393	.2291508	.6879236	.6264217	.0016373	.2721380	.2343495
#1	.4992306	51.16964	.4963510	.4969738	.4976421	.4976299	.4879208
#2	.4990743	51.00408	.4915456	.4925906	.4976537	.4995488	.4895406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.05979	.4895383	.5047764	.4936338	.4835547	25.20202	50.26304
Stddev	.16068	.0015953	.0015001	.0033975	.0001117	.02916	.06759
%RSD	.6412060	.3258746	.2971733	.6882715	.0230924	.1156974	.1344766
#1	24.94617	.4906664	.5058371	.4960362	.4834757	25.18141	50.31083
#2	25.17341	.4884103	.5037157	.4912314	.4836336	25.22264	50.21525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.61811	4.820634	.4746919	25.14457	.4941984	.5075352	.4886927
Stddev	.01765	.018755	.0012501	.06317	.0008911	.0004126	.0009257
%RSD	.0717079	.3890468	.2633489	.2512260	.1803229	.0812977	.1894283
#1	24.60563	4.807372	.4755759	25.18923	.4948285	.5078270	.4893472
#2	24.63059	4.833895	.4738080	25.09990	.4935682	.5072435	.4880381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/14/2012 16:54:07 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5068023	.5146765	.5117292	.4740526	.4866329	.4999178	4.870261
Stddev	.0032220	.0033165	.0002584	.0016603	.0006177	.0032719	.005091
%RSD	.6357450	.6443854	.0505015	.3502321	.1269355	.6544963	.1045313
#1	.5090806	.5170216	.5119120	.4728786	.4861961	.5022314	4.873861
#2	.5045241	.5123314	.5115465	.4752266	.4870697	.4976042	4.866661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5146645
Stddev	.0001476
%RSD	.0286758
#1	.5145602
#2	.5147689
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2619.815	2349.082	11896.63	5592.412
Stddev	10.999	13.559	5.78	23.460
%RSD	.4198483	.5772229	.0486181	.4195026
#1	2612.037	2339.494	11892.54	5609.001
#2	2627.593	2358.670	11900.72	5575.823

Sample Name: CCB Acquired: 12/14/2012 16:58:04 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002289	-.003758	-.000667	.0008016	-.000347	.0000619	-.000603
Stddev	.0000551	.014667	.000285	.0002505	.000218	.0000736	.000518
%RSD	24.04980	390.3111	42.71305	31.24752	62.92126	118.8912	85.98662
#1	.0002678	.006613	-.000465	.0009787	-.000192	.0001140	-.000236
#2	.0001900	-.014129	-.000868	.0006245	-.000501	.0000099	-.000969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013221	.0000783	.0001207	-.000239	-.000318	-.009047	.0086866
Stddev	.0010965	.0001172	.0001284	.000022	.000037	.000359	.0043011
%RSD	82.93518	149.7172	106.3223	9.036033	11.49897	3.965835	49.51394
#1	.0005468	-.000005	.0002115	-.000254	-.000292	-.009301	.0117279
#2	.0020975	.000161	.0000300	-.000224	-.000344	-.008793	.0056453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092178	-.000196	.0004132	.0405973	.0001214	-.000703	.0012500
Stddev	.0143165	.000383	.0000025	.0023015	.0001561	.000079	.0016239
%RSD	155.3141	195.7397	.6067624	5.669053	128.6374	11.21749	129.9103
#1	.0193411	.000075	.0004150	.0389700	.0002318	-.000759	.0023982
#2	-.000906	-.000466	.0004115	.0422247	.0000110	-.000647	.0001017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/14/2012 16:58:04 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001586	.0017910	-.000430	.0000341	-.000057	.0002212	.0000095
Stddev	.000777	.0004890	.000463	.0000074	.000061	.0000828	.0002447
%RSD	48.96594	27.30195	107.6022	21.70007	106.2480	37.41682	2569.687
#1	-.001037	.0014452	-.000103	.0000288	-.000100	.0002798	-.000164
#2	-.002135	.0021368	-.000758	.0000393	-.000014	.0001627	.000183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0004876
Stddev	.0003195
%RSD	65.52853
#1	.0002616
#2	.0007135
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2941.233	2445.113	12429.61	5625.287
Stddev	1.655	10.303	7.38	24.636
%RSD	.0562650	.4213513	.0593408	.4379549
#1	2942.403	2452.398	12424.39	5642.708
#2	2940.063	2437.828	12434.82	5607.867

Sample Name: CRI Acquired: 12/14/2012 17:17:21 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099299	.4090752	.0187355	.0983389	.0199186	.0078464	.0971122
Stddev	.0002052	.0094582	.0013339	.0003316	.0002308	.0001337	.0022727
%RSD	2.066857	2.312101	7.119875	.3372109	1.158669	1.704367	2.340271
#1	.0097848	.4023872	.0177922	.0981044	.0197554	.0079410	.0955051
#2	.0100750	.4157631	.0196787	.0985734	.0200817	.0077518	.0987192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4170867	.0039325	.0098458	.0194264	.0190773	.3993594	1.001753
Stddev	.0020697	.0000997	.0001020	.0003332	.0000642	.0025519	.007421
%RSD	.4962175	2.536154	1.036152	1.714967	.3366344	.6389851	.7407891
#1	.4185501	.0038620	.0097736	.0196620	.0190319	.4011638	.996505
#2	.4156232	.0040030	.0099179	.0191908	.0191227	.3975550	1.007000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2083814	.0194980	.0228454	2.051812	.0196093	.0093075	.0423202
Stddev	.0240216	.0001802	.0007182	.004614	.0003687	.0006507	.0009096
%RSD	11.52771	.9242953	3.143870	.2248598	1.880012	6.991019	2.149311
#1	.1913955	.0196255	.0233532	2.055074	.0193486	.0088474	.0416770
#2	.2253672	.0193706	.0223375	2.048549	.0198700	.0097676	.0429633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 12/14/2012 17:17:21 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169651	.3880959	.0778360	.0099378	.0101996	.0187859	.0095783
Stddev	.0015486	.0007848	.0005608	.0000069	.0000028	.0002879	.0001141
%RSD	9.128372	.2022234	.7204261	.0693239	.0275263	1.532593	1.191583
#1	.0180602	.3875410	.0774395	.0099329	.0101976	.0189895	.0094976
#2	.0158701	.3886509	.0782325	.0099427	.0102016	.0185823	.0096590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.0396100
Stddev	.0002593
%RSD	.6546399
#1	.0394267
#2	.0397934
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.383	2440.532	12376.19	5668.012
Stddev	3.862	2.858	25.13	9.251
%RSD	.1323671	.1170938	.2030321	.1632188
#1	2920.113	2442.553	12358.43	5674.553
#2	2914.652	2438.512	12393.96	5661.470

Sample Name: ICSA Acquired: 12/14/2012 17:21:24 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000230	503.0343	.0049970	.0003119	-.000171	.0001367	-.010981
Stddev	.000524	.2471	.0012050	.0002672	.000006	.0002441	.001377
%RSD	228.0658	.0491135	24.11468	85.64904	3.741581	178.5669	12.54238
#1	.000141	502.8596	.0041450	.0005008	-.000176	-.000036	-.011955
#2	-.000600	503.2090	.0058491	.0001230	-.000166	.000309	-.010007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	473.8544	-.000516	-.002675	.0020571	.0033614	190.8665	-.055058
Stddev	.8057	.000080	.000401	.0003445	.0003489	.1768	.005594
%RSD	.1700360	15.54054	14.98314	16.74440	10.37935	.0926134	10.16041
#1	473.2847	-.000572	-.002391	.0018136	.0031147	190.9915	-.051103
#2	474.4242	-.000459	-.002958	.0023007	.0036081	190.7415	-.059014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	513.3739	-.000235	-.000710	.0802560	-.000541	.0031889	.0035751
Stddev	.0733	.000138	.000395	.0051104	.000239	.0019397	.0011560
%RSD	.0142823	58.52760	55.61461	6.367570	44.10289	60.82738	32.33512
#1	513.3221	-.000138	-.000431	.0766424	-.000710	.0018173	.0043926
#2	513.4258	-.000333	-.000990	.0838696	-.000373	.0045605	.0027577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 12/14/2012 17:21:24 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003034	.0025221	.0097106	.0021657	.0031496	-.007346	.0023883
Stddev	.005545	.0005334	.0017494	.0000106	.0002175	.001339	.0002140
%RSD	182.7636	21.14758	18.01561	.4908080	6.904547	18.23296	8.958271
#1	.000887	.0021449	.0084736	.0021582	.0029958	-.006399	.0022371
#2	-.006955	.0028992	.0109477	.0021732	.0033033	-.008294	.0025396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.001843
Stddev	.000612
%RSD	33.19262
#1	-.001411
#2	-.002276
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.385	2133.594	10718.89	5391.401
Stddev	5.156	7.583	9.90	8.068
%RSD	.2379980	.3554057	.0923424	.1496525
#1	2170.031	2138.956	10725.89	5385.696
#2	2162.739	2128.232	10711.89	5397.106

Sample Name: ICSAB Acquired: 12/14/2012 17:26:27 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2195817	502.8520	.1039423	.0001559	.4953248	.5110969
Stddev	.0000644	.8509	.0038992	.0005359	.0014069	.0015928
%RSD	.0293198	.1692218	3.751323	343.7897	.2840425	.3116397
#1	.2196272	502.2503	.1066994	-.000223	.4963196	.5099706
#2	.2195361	503.4538	.1011851	.000535	.4943299	.5122231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009104	471.8061	.9983031	.5092479	.4706323	.5293012
Stddev	.003928	4.2745	.0031877	.0008566	.0027278	.0003007
%RSD	43.14975	.9059847	.3193154	.1682029	.5796047	.0568004
#1	-.011882	468.7835	.9960490	.5098536	.4687034	.5290886
#2	-.006326	474.8286	1.000557	.5086422	.4725611	.5295138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	190.0566	-.040709	511.0089	.4639998	-.000140	.0773225
Stddev	1.0036	.027892	2.6294	.0010695	.000519	.0026559
%RSD	.5280431	68.51400	.5145549	.2305040	371.0605	3.434807
#1	189.3470	-.020987	509.1496	.4632435	.000227	.0754445
#2	190.7663	-.060432	512.8682	.4647561	-.000507	.0792005
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Sample Name: ICSAB Acquired: 12/14/2012 17:26:27 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9840545	.0538577	.5877157	F .0382086	.0006877	.0111514
Stddev	.0024761	.0006080	.0035203	.0014638	.0023574	.0031022
%RSD	.2516175	1.128878	.5989780	3.831125	342.7890	27.81880
#1	.9858054	.0542876	.5852265	.0371736	-.000979	.0133450
#2	.9823037	.0534278	.5902049	.0392437	.002355	.0089578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	None
Value				.0500000		
Range				-20.0000%		

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0021526	.0040192	.0879660	.4825263	.9983628
Stddev	.0000190	.0001704	.0005370	.0006252	.0031614
%RSD	.8807722	4.239887	.6104333	.1295710	.3166568
#1	.0021660	.0038987	.0875863	.4820842	1.000598
#2	.0021392	.0041397	.0883457	.4829684	.996127
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2174.828	2135.640	10716.48	5370.847
Stddev	1.093	9.042	4.04	39.361
%RSD	.0502566	.4233985	.0376673	.7328583
#1	2175.601	2142.034	10713.62	5398.679
#2	2174.055	2129.246	10719.33	5343.015

Sample Name: CCV Acquired: 12/14/2012 17:31:19 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5003694	51.70030	.4972075	.4950797	.5006302	.5032049	.4891365
Stddev	.0004906	.19160	.0004986	.0000190	.0013387	.0032999	.0021576
%RSD	.0980463	.3705893	.1002889	.0038296	.2674010	.6557842	.4411078
#1	.5007163	51.56482	.4968549	.4950931	.4996836	.5008715	.4906622
#2	.5000225	51.83577	.4975601	.4950663	.5015768	.5055384	.4876108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.29434	.4884480	.5025822	.4956825	.4850132	25.48110	50.64180
Stddev	.11856	.0004696	.0015754	.0012780	.0001502	.10964	.10266
%RSD	.4687257	.0961323	.3134720	.2578189	.0309668	.4302960	.2027116
#1	25.21051	.4881160	.5014682	.4965862	.4849070	25.40358	50.56921
#2	25.37818	.4887801	.5036962	.4947788	.4851194	25.55864	50.71439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.86427	4.873073	.4730688	25.33983	.4930950	.5054188	.4871692
Stddev	.08375	.018032	.0004645	.05567	.0008598	.0029743	.0008410
%RSD	.3368091	.3700379	.0981882	.2197009	.1743573	.5884802	.1726398
#1	24.80505	4.860322	.4727404	25.30047	.4924870	.5033156	.4865745
#2	24.92348	4.885824	.4733973	25.37920	.4937029	.5075219	.4877639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/14/2012 17:31:19 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4990971	.5144713	.5138057	.4787084	.4882884	.4979137	4.887686
Stddev	.0011772	.0002819	.0014493	.0019382	.0013594	.0002653	.001281
%RSD	.2358723	.0547863	.2820714	.4048894	.2784089	.0532819	.0262177
#1	.4999296	.5142720	.5127809	.4800789	.4892497	.4977261	4.888593
#2	.4982647	.5146706	.5148306	.4773378	.4873272	.4981013	4.886780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5113867
Stddev	.0023230
%RSD	.4542607
#1	.5097441
#2	.5130293
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.628	2368.388	11964.34	5616.107
Stddev	1.975	4.393	18.16	15.166
%RSD	.0745629	.1854900	.1518258	.2700477
#1	2647.232	2365.282	11951.49	5626.831
#2	2650.025	2371.495	11977.18	5605.383

Sample Name: CCB Acquired: 12/14/2012 17:35:16 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001689	.0083885	-.000348	.0002941	-.000250	.0000798	.0006750
Stddev	.0001022	.0121090	.003511	.0002299	.000134	.0001425	.0001321
%RSD	60.48453	144.3521	1008.301	78.16994	53.67903	178.6122	19.57343
#1	.0000967	-.000174	.002135	.0004566	-.000344	-.000021	.0005816
#2	.0002412	.016951	-.002831	.0001315	-.000155	.000181	.0007684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129849	.0001241	.0000507	-.000807	-.000212	.0359967	-.003838
Stddev	.0004634	.0000744	.0000555	.000393	.000309	.0099434	.006254
%RSD	3.568787	60.00803	109.6076	48.72991	145.5510	27.62322	162.9323
#1	.0133126	.0001767	.0000899	-.000529	-.000431	.0430278	.000584
#2	.0126572	.0000714	.0000114	-.001084	.000006	.0289656	-.008260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116487	.0005671	.0005316	.0500538	-.000050	.0005387	.0021678
Stddev	.0104137	.0004112	.0001121	.0003411	.000436	.0008199	.0021937
%RSD	89.39802	72.50485	21.08467	.6814695	877.2746	152.1916	101.1926
#1	.0190124	.0008579	.0004523	.0502950	.000259	.0011184	.0037190
#2	.0042851	.0002764	.0006108	.0498126	-.000358	-.000041	.0006167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/14/2012 17:35:16 Type: QC
Method: P6121412B Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003309	.0002142	-.000621	.0001580	-.000123	.0019162	.0001711
Stddev	.000671	.0006702	.000300	.0000064	.000079	.0002144	.0000224
%RSD	20.26481	312.8408	48.29308	4.049301	64.57047	11.18672	13.11245
#1	-.003783	-.000260	-.000409	.0001626	-.000067	.0020678	.0001870
#2	-.002835	.000688	-.000833	.0001535	-.000179	.0017647	.0001553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0004317
Stddev	.0001946
%RSD	45.07251
#1	.0002941
#2	.0005693
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2946.830	2452.447	12458.82	5627.646
Stddev	1.372	2.832	14.56	36.393
%RSD	.0465595	.1154644	.1168334	.6466782
#1	2945.860	2450.445	12469.11	5601.913
#2	2947.801	2454.450	12448.53	5653.380

Paul Jones P6121712A

	Pos ID	Rack	Row	Col	Type	Samplename	Comment
1	---	---	---	---	Cal	---	--
2	1	1	1	1	QC	S1	173
3	2	1	2	1	QC	S2	
4	3	1	3	1	QC	ICV	
5	4	1	4	1	QC	ICB	
6	5	1	5	1	QC	CRI	
7	6	1	6	1	QC	ICSA	
8	7	1	7	1	QC	ICSAB	
9	8	1	8	1	QC	CCV	
10	9	1	9	1	QC	CCB	
11	10	1	10	1	Unk	~~MB 500-173045/1-A~~	
12	11	1	11	1	Unk	~~LCS 500-173045~~/2-	
13	12	1	12	1	QC	CCV	
14	13	1	1	2	QC	CCB	
15	14	1	2	2	Unk	MB 500-173035/1-A	
16	15	1	3	2	Unk	LCS 500-173035/2-	
17	16	1	4	2	Unk	500-53244-F-1-C	RCRA
18	17	1	5	2	Unk	500-53244-B-2-C	
19	18	1	6	2	Unk	500-53244-F-3-C	
20	19	1	7	2	Unk	500-53244-F-3-CSD	
21	20	1	8	2	Unk	500-53244-F-3-D D	
22	21	1	9	2	Unk	500-53244-F-3-E M	
23	22	1	10	2	Unk	500-53244-F-3-F MS	
24	23	1	11	2	Unk	500-53244-B-4-C	
25	24	1	12	2	QC	CCV	
26	25	1	1	3	QC	CCB	
27	26	1	2	3	Unk	500-53244-F-5-C	
28	27	1	3	3	Unk	500-53273-A-2-A	As, Cd, Cr, Cu, Mo, Ni, Pb, Se
29	28	1	4	3	Unk	500-52216-A-1-B	Ba
30	29	1	5	3	Unk	500-52216-A-2-B	
31	30	1	6	3	Unk	500-52216-A-3-B	
32	31	1	7	3	Unk	500-52216-A-4-B	
33	32	1	8	3	Unk	500-52216-A-5-B	
34	33	1	9	3	Unk	500-52216-A-6-B	
35	34	1	10	3	QC	CCV	
36	35	1	11	3	QC	CCB	
37	44	1	8	4	QC	~~CCV~~	
38	36	1	12	3	Unk	53234-J-2-A @5	Pb
39	37	1	1	4	Unk	53150-A-5-C @10	Mn
40	38	1	2	4	Unk	53150-A-7-C @10	
41	39	1	3	4	Unk	53150-A-8-C @10	
42	40	1	4	4	QC	CCV	
43	41	1	5	4	QC	CCB	
44	42	1	6	4	Unk	AL	
45	43	1	7	4	Unk	FE	

Sample Name: Blank Acquired: 12/17/2012 8:41:47 Type: Cal
Method: P6121712A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00030	.00187	-.00033	.00188	.01015	.00002	-.00230
Stddev	.00003	.00063	.00017	.00022	.00114	.00035	.00035
%RSD	8.6724	33.500	52.713	11.796	11.192	1739.1	15.303
#1	-.00031	.00232	-.00020	.00204	.01095	.00027	-.00255
#2	-.00028	.00143	-.00045	.00172	.00935	-.00023	-.00205

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00526	.0013	-.00080	-.00018	.01227	.00003	.00244
Stddev	.00028	.0003	.00006	.00001	.00037	.00026	.00010
%RSD	5.2422	24.78	6.9065	7.4843	3.0476	876.57	3.9669
#1	.00546	.0011	-.00084	-.00019	.01201	.00021	.00237
#2	.00507	.0016	-.00076	-.00017	.01254	-.00015	.00250

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00008	.00022	-.00038	.00247	-.00058	-.00016	.00020
Stddev	.00007	.00032	.00011	.00003	.00003	.00018	.00001
%RSD	88.547	148.27	28.062	1.1033	4.7666	110.37	5.7626
#1	-.00003	.00044	-.00030	.00245	-.00060	-.00004	.00021
#2	-.00012	-.00001	-.00045	.00249	-.00056	-.00029	.00019

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00012	.01180	.00021	.00028	.00045	-.00046	.00057
Stddev	.00004	.00127	.00028	.00055	.00003	.00012	.00005
%RSD	29.873	10.745	130.34	201.22	7.3735	25.537	9.2817
#1	.00010	.01091	.00041	.00067	.00042	-.00055	.00060
#2	.00015	.01270	.00002	-.00012	.00047	-.00038	.00053

Sample Name: Blank Acquired: 12/17/2012 8:41:47 Type: Cal
Method: P6121712A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Units	Cts/S
Avg	.00012
Stddev	.00008
%RSD	67.115
#1	.00017
#2	.00006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3082.7	2691.2	14184.	5934.8
Stddev	84.2	110.7	180.	66.0
%RSD	2.7313	4.1131	1.2692	1.1126
#1	3142.2	2769.5	14311.	5888.1
#2	3023.1	2612.9	14056.	5981.5

Sample Name: S1 Acquired: 12/17/2012 8:45:50 Type: Cal
Method: P6121712A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.85292	.11162	.60939	5.0362	1.4364	.20878	2.818	1.2800
Stddev	.00105	.00150	.01149	.0077	.0088	.00335	.052	.0241
%RSD	.12311	1.3459	1.8863	.15385	.61113	1.6047	1.862	1.8803
#1	.85218	.11056	.60126	5.0417	1.4426	.20641	2.781	1.2630
#2	.85366	.11268	.61752	5.0307	1.4301	.21114	2.855	1.2970

Elem	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.37771	1.1767	.95006	.70922	.43411	.23572	.15625	.09503
Stddev	.00016	.0009	.00329	.01477	.00604	.00448	.00321	.00229
%RSD	.04320	.07278	.34580	2.0830	1.3909	1.9018	2.0558	2.4096
#1	.37759	1.1761	.95239	.69877	.42984	.23255	.15398	.09341
#2	.37783	1.1773	.94774	.71966	.43838	.23889	.15852	.09665

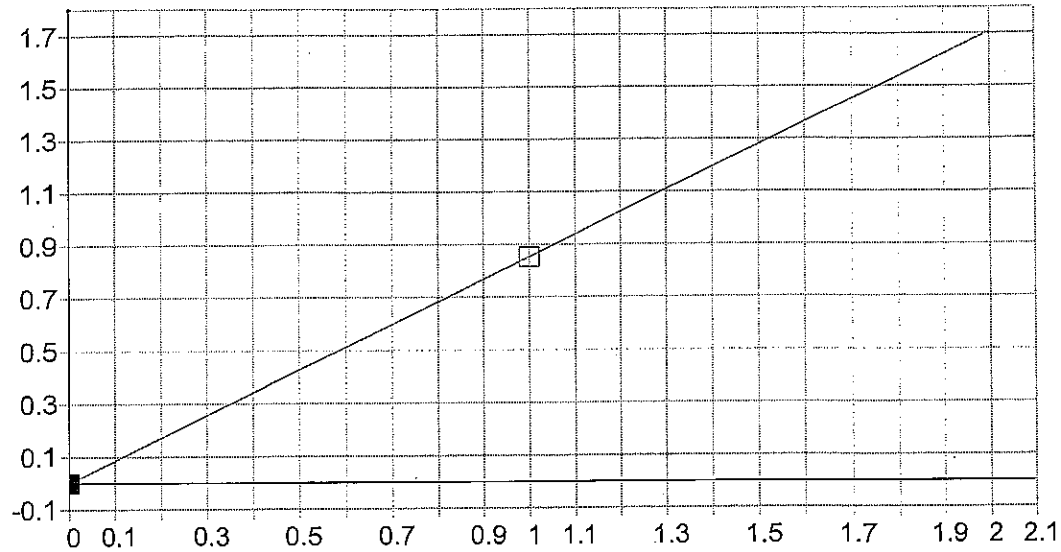
Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26710	.21378	29.932	1.7780	.12677	.67036	.70982
Stddev	.00412	.00372	.007	.0056	.00252	.00033	.01223
%RSD	1.5424	1.7390	.02501	.31435	1.9895	.04922	1.7223
#1	.26419	.21115	29.937	1.7741	.12499	.67013	.70118
#2	.27001	.21640	29.926	1.7820	.12856	.67060	.71847

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2873.2	2410.8	12889.	6060.4
Stddev	41.7	35.8	12.	24.1
%RSD	1.4500	1.4849	.08977	.39752
#1	2902.6	2436.1	12898.	6043.4
#2	2843.7	2385.5	12881.	6077.5

Sample Name: S2 Acquired: 12/17/2012 8:49:48 Type: Cal
Method: P6121712A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9036	17.833	.85855	5.2523	1.4018	27.563
Stddev	.0093	.001	.00094	.0129	.0010	.077
%RSD	.31928	.00562	.10929	.24601	.07100	.27871
#1	2.9102	17.832	.85921	5.2614	1.4025	27.617
#2	2.8971	17.834	.85788	5.2431	1.4011	27.509

Int. Std.	Y_3710
Units	Cts/S
Avg	5837.4
Stddev	12.9
%RSD	.22028
#1	5846.5
#2	5828.3

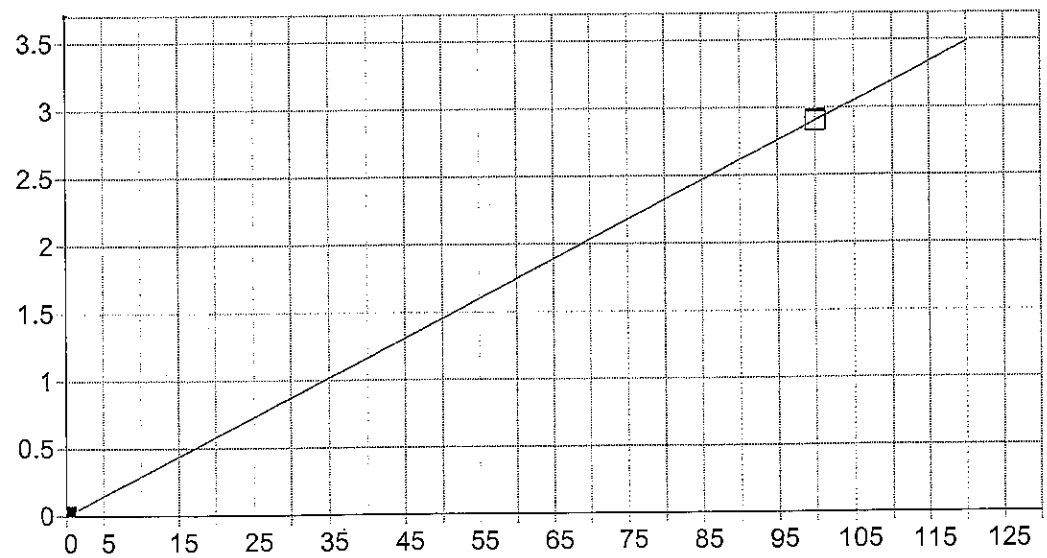


Ag 328.068 {103}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000296	Re-Slope:	1.000000
A1 (Gain):	0.853214	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000535		
Predicted MQL:	0.001784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00030	.000	1
S1	1.0000	1.0000	.000	.000	.85292	.001	1

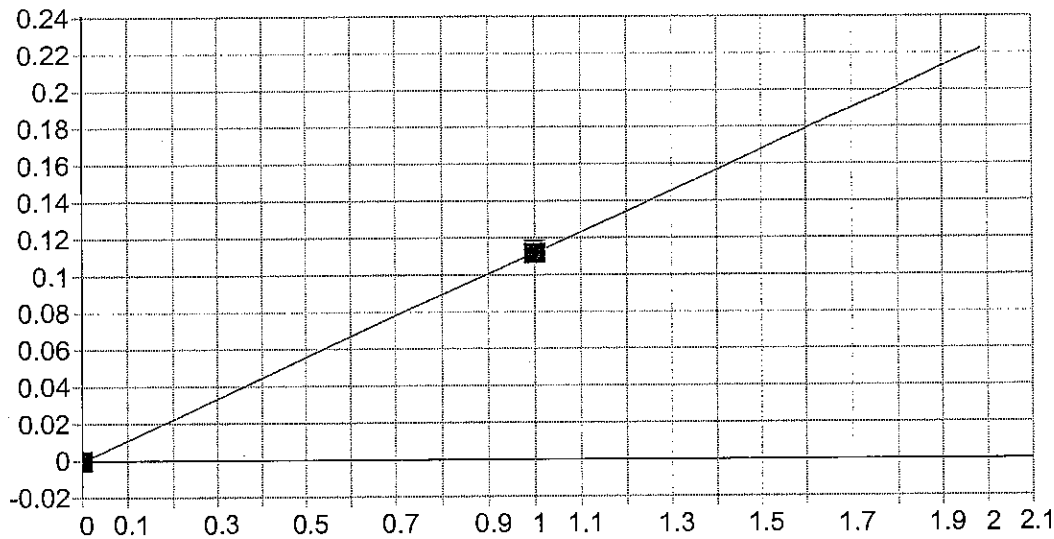


Al 308.215 {109}

Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001873	Re-Slope:	1.000000
A1 (Gain):	0.029018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.019438		
Predicted MQL:	0.064792		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00187	.001	1
S2	100.00	100.00	.000	.000	2.9036	.009	1

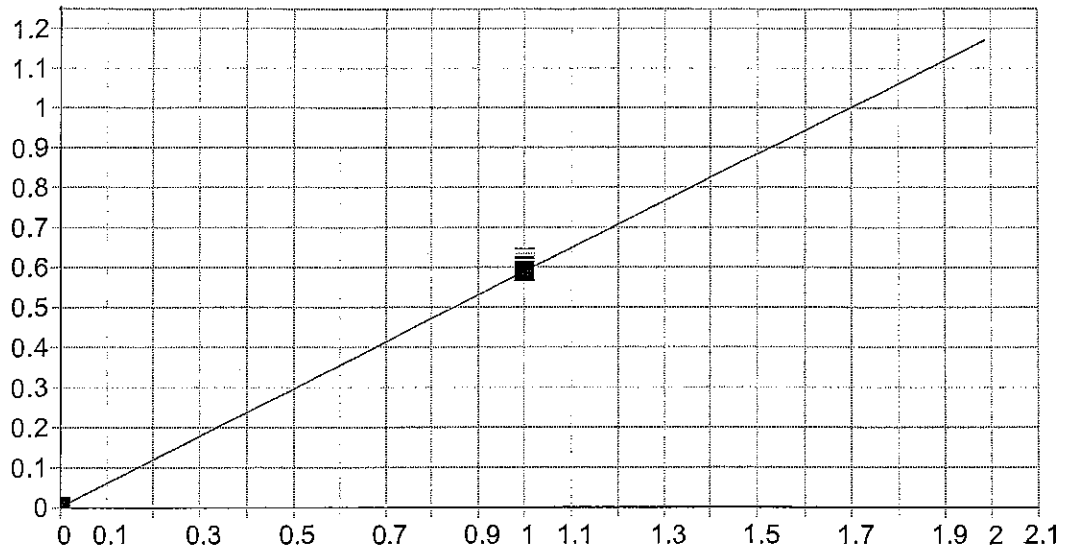


As 189.042 {478}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000327	Re-Slope:	1.000000
A1 (Gain):	0.112075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002402		
Predicted MQL:	0.008007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00033	.000	1
S1	1.0000	1.00000	.000	.000	.11162	.002	1

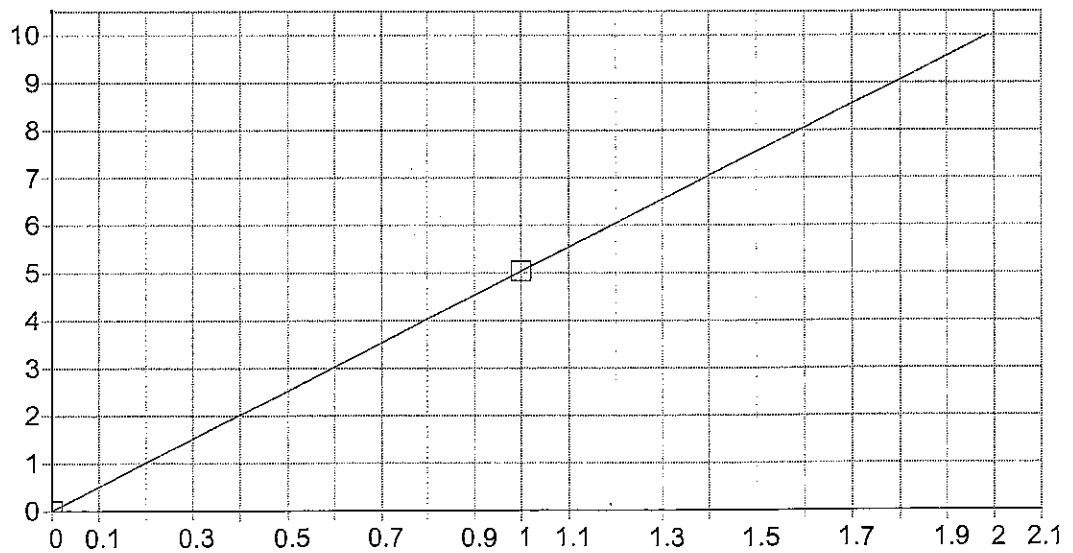


B 208.959 {461}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001879	Re-Slope:	1.000000
A1 (Gain):	0.587851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000442		
Predicted MQL:	0.001473		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00188	.000	1
S1	1.0000	1.0000	.000	.000	.60939	.011	1

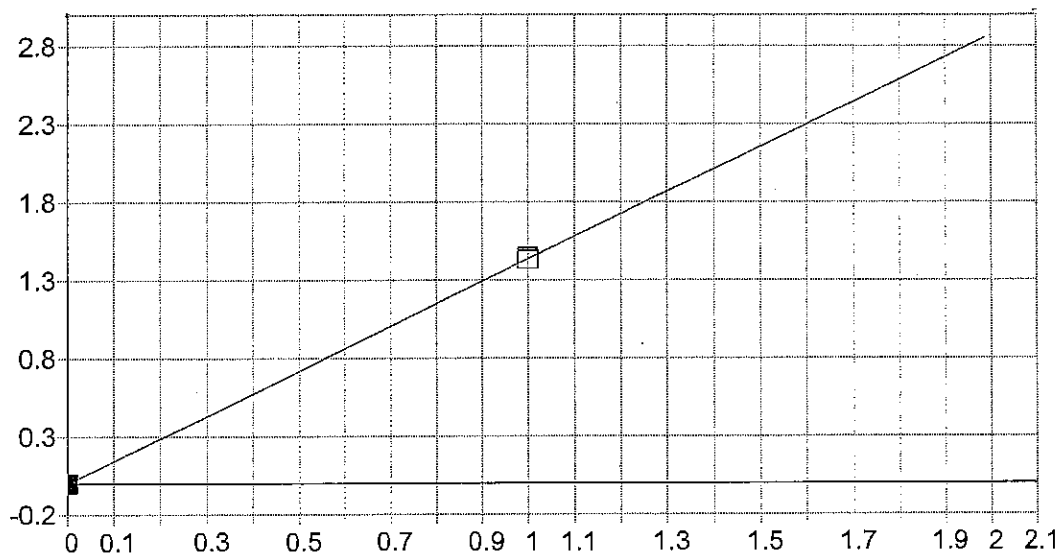


Ba 455.403 { 74}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010152	Re-Slope:	1.000000
A1 (Gain):	5.026077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000192		
Predicted MQL:	0.000639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01015	.001	1
S1	1.0000	1.0000	.000	.000	5.0362	.008	1

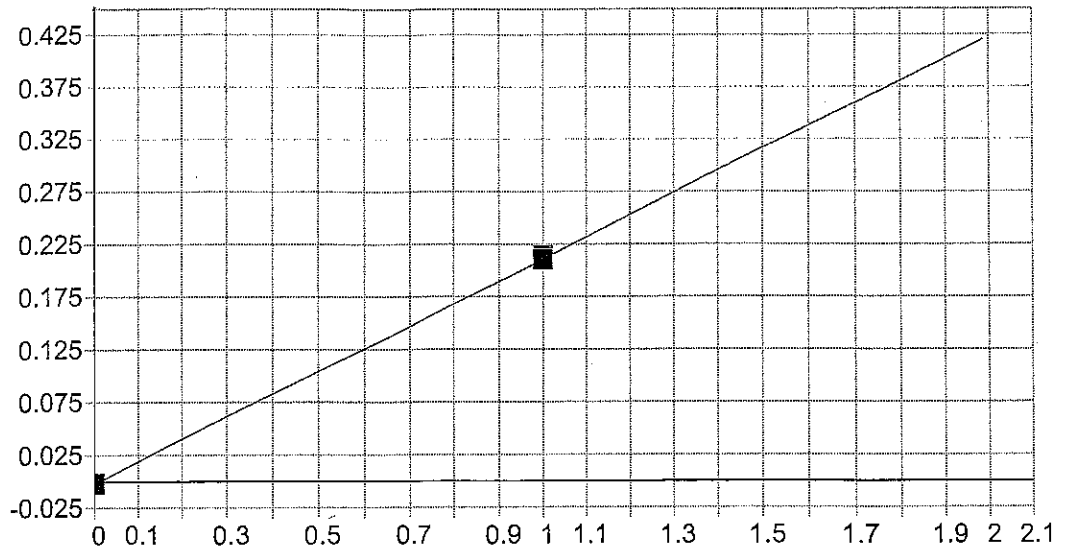


Be 234.861 {143}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	1.436331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000231		
Predicted MQL:	0.000771		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
S1	1.0000	1.0000	.000	.000	1.4364	.009	1

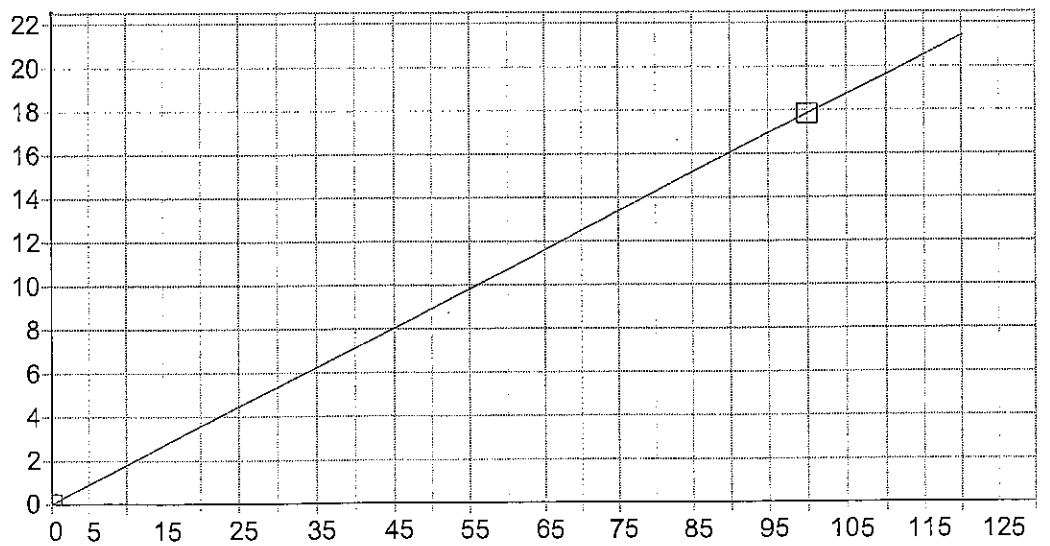


Bi 223.061 {451}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002301	Re-Slope:	1.000000
A1 (Gain):	0.212639	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001819		
Predicted MQL:	0.006062		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00230	.000	1
S1	1.0000	1.0000	.000	.000	.20878	.003	1

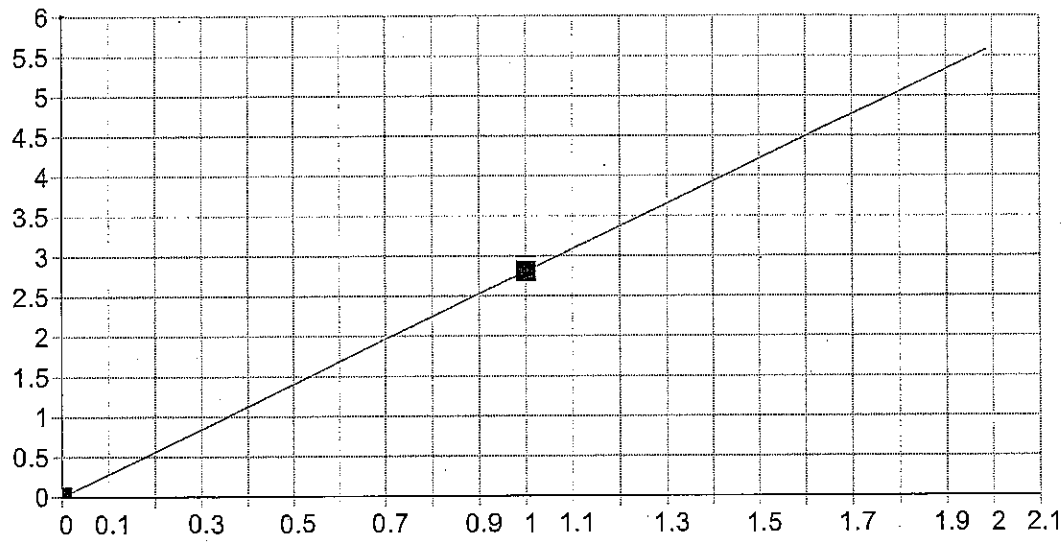


Ca 317.933 {106}

Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005260	Re-Slope:	1.000000
A1 (Gain):	0.178279	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002868		
Predicted MQL:	0.009560		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00526	.000	1
S2	100.00	100.00	.000	.000	17.833	.001	1

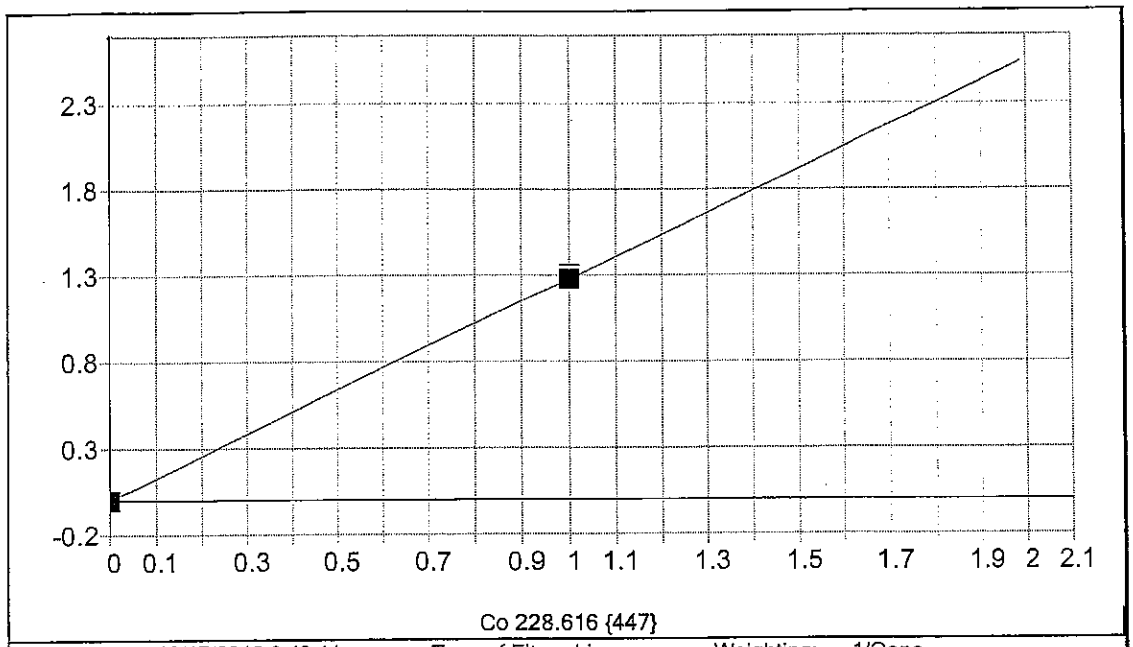


Cd 228.802 {447}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001324	Re-Slope:	1.000000
A1 (Gain):	2.805536	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000163		
Predicted MQL:	0.000544		

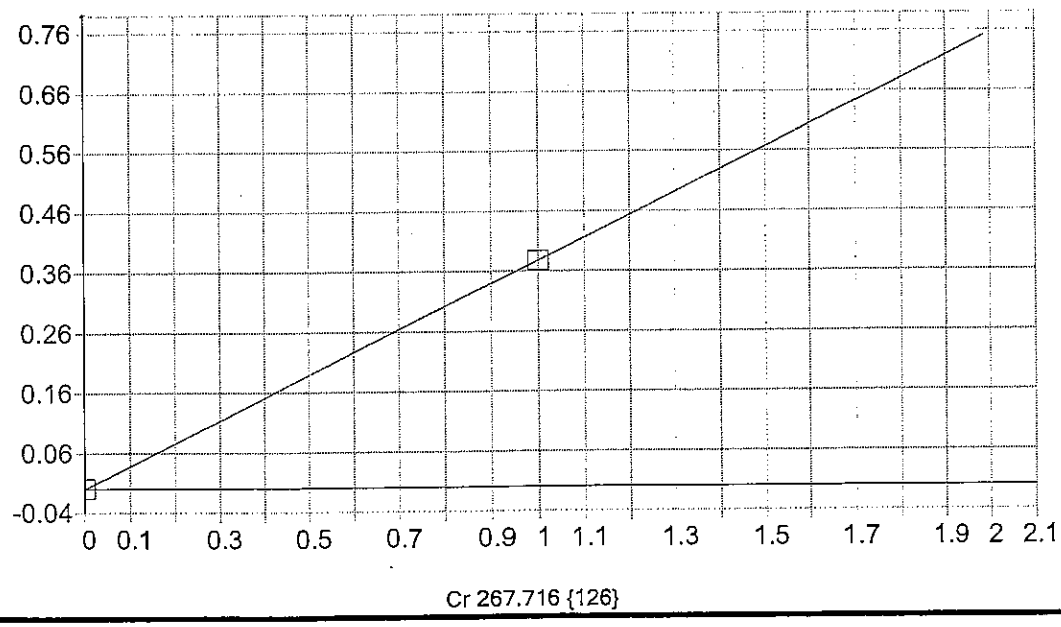
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00132	.000	1
S1	1.0000	1.0000	.000	.000	2.8182	.052	1



Date of Fit: 12/17/2012 8:49:44 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.000798	Re-Slope:	1.000000
A1 (Gain):	1.278740	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000302		
Predicted MQL:	0.001005		

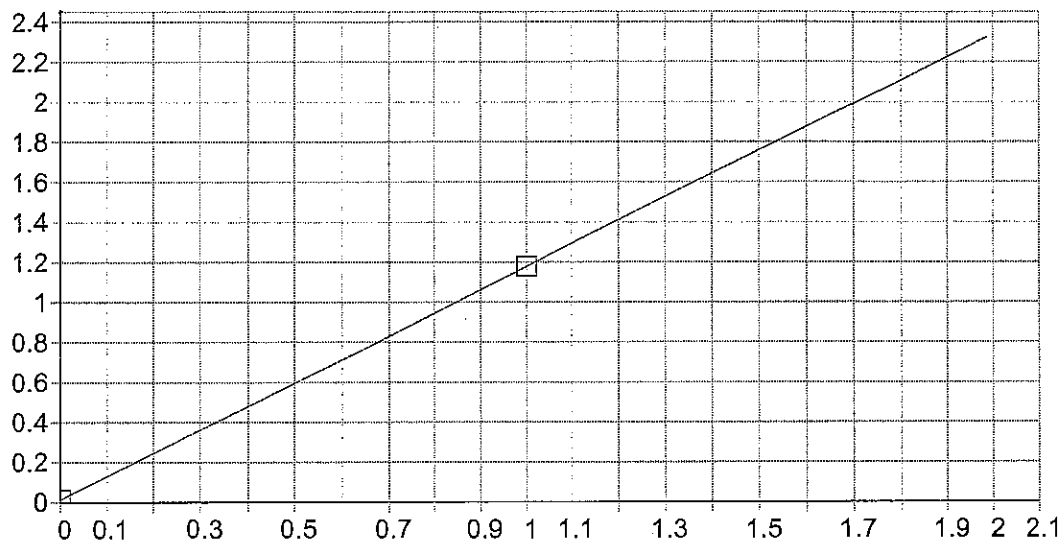
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00080	.000	1
S1	1.0000	1.0000	.000	.000	1.2800	.024	1



Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000177	Re-Slope:	1.000000
A1 (Gain):	0.377887	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000760		
Predicted MQL:	0.002532		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00018	.000	1
S1	1.0000	1.0000	.000	.000	.37771	.000	1

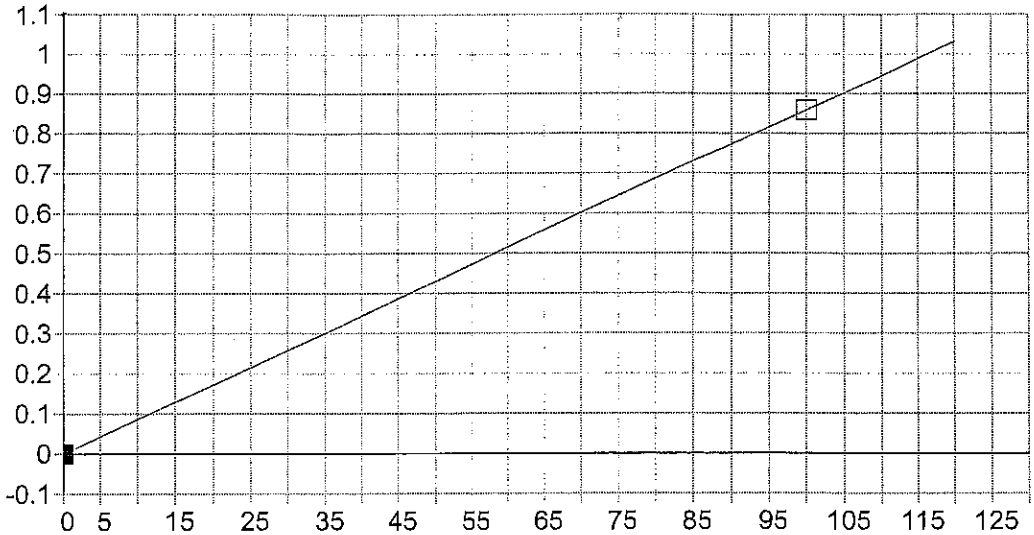


Cu 324.754 {104}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012273	Re-Slope:	1.000000
A1 (Gain):	1.164463	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000366		
Predicted MQL:	0.001219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01227	.000	1
S1	1.0000	1.0000	.000	.000	1.1767	.001	1

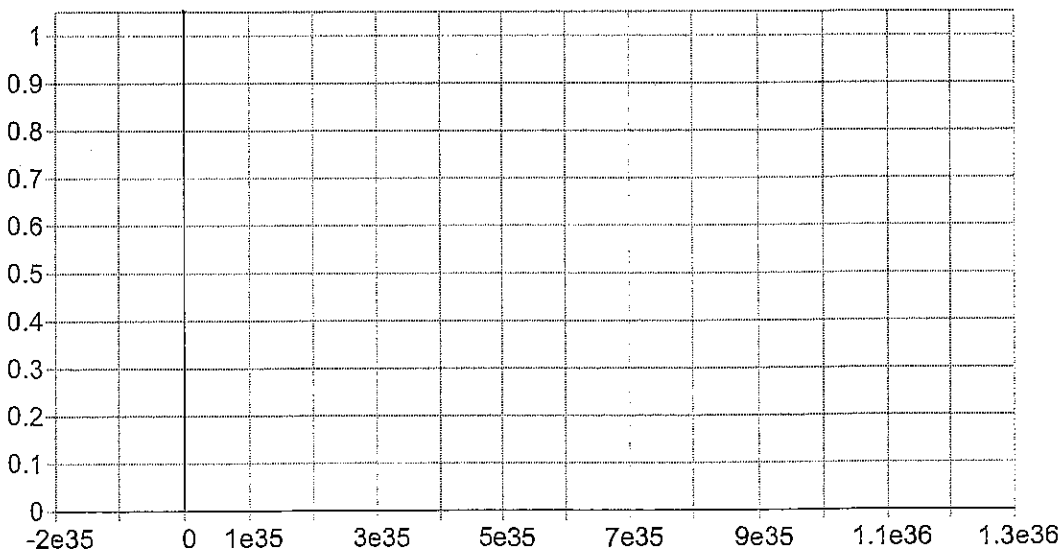


Fe 271.441 {124}

Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000029	Re-Slope:	1.000000
A1 (Gain):	0.008585	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.048381		
Predicted MQL:	0.161269		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
S2	100.00	100.00	.000	.000	.85855	.001	1

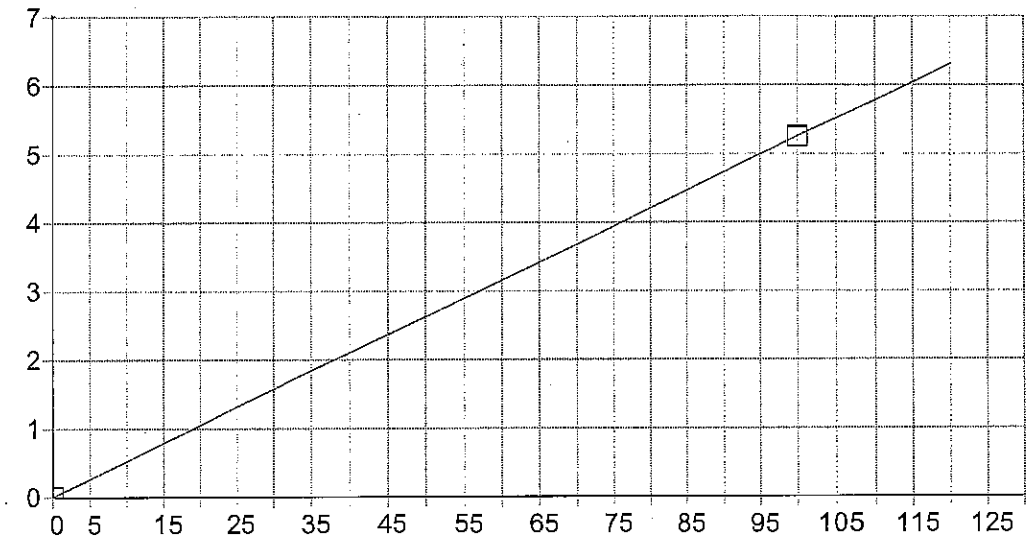


In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

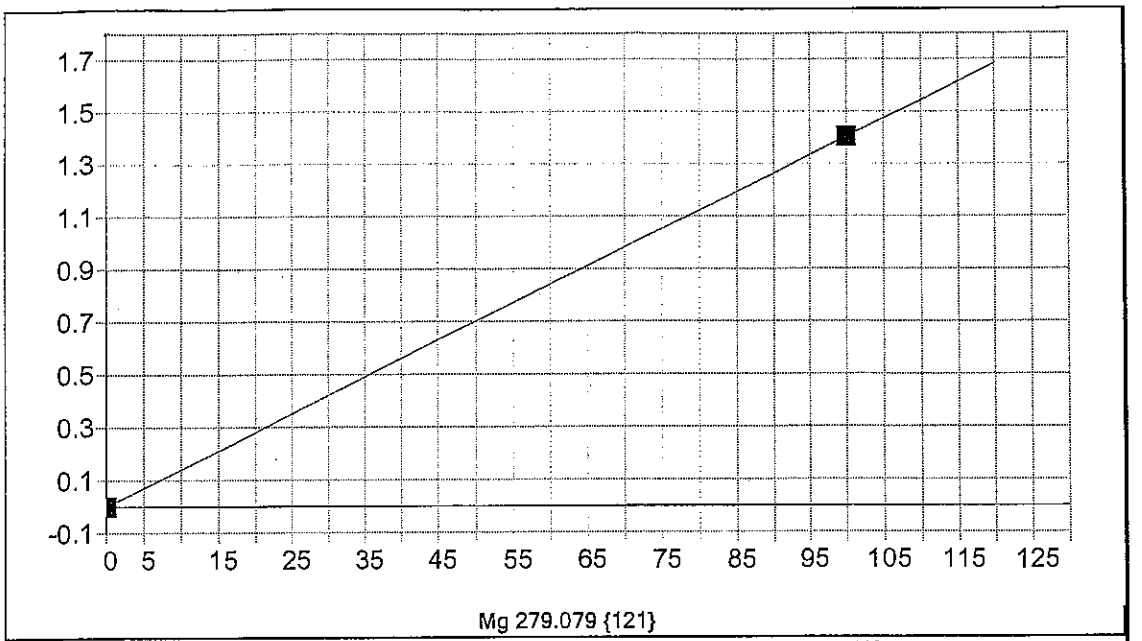


K 766.490 { 44}

Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002436	Re-Slope:	1.000000
A1 (Gain):	0.052498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.029151		
Predicted MQL:	0.097170		

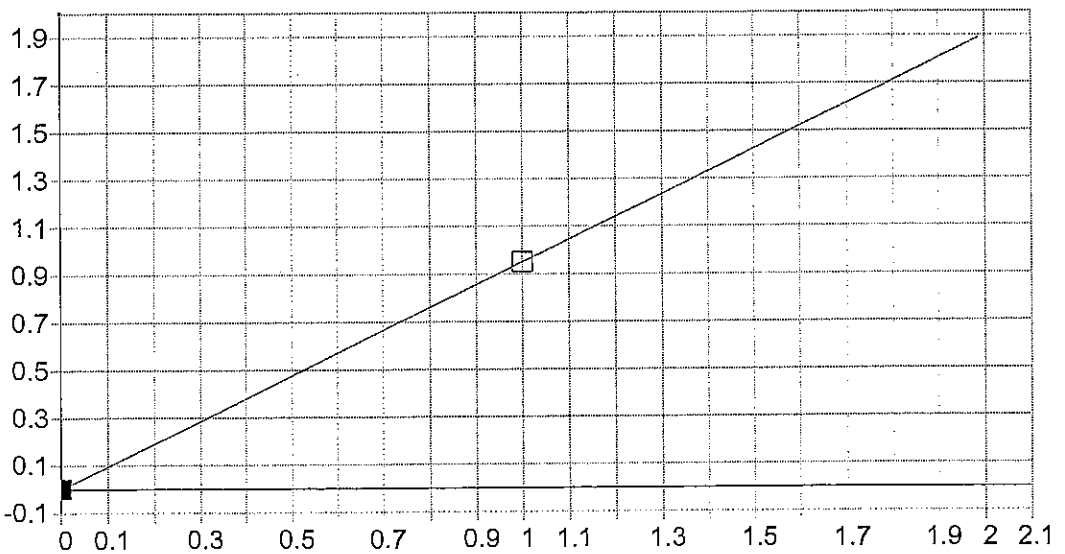
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00244	.000	1
S2	100.00	100.000	.000	.000	5.2523	.013	1



Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000076	Re-Slope:	1.000000
A1 (Gain):	0.014022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.021984		
Predicted MQL:	0.073279		

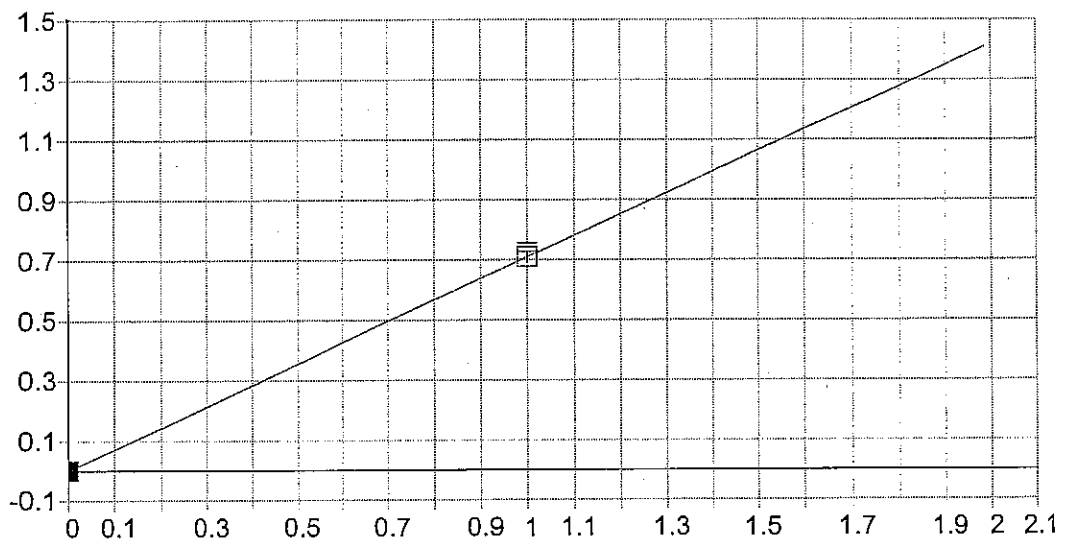
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00008	.000	1
S2	100.00	100.00	.000	.000	1.4018	.001	1



Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000216	Re-Slope:	1.000000
A1 (Gain):	0.949849	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000359		
Predicted MQL:	0.001196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00022	.000	1
S1	1.0000	1.0000	.000	.000	.95006	.003	1

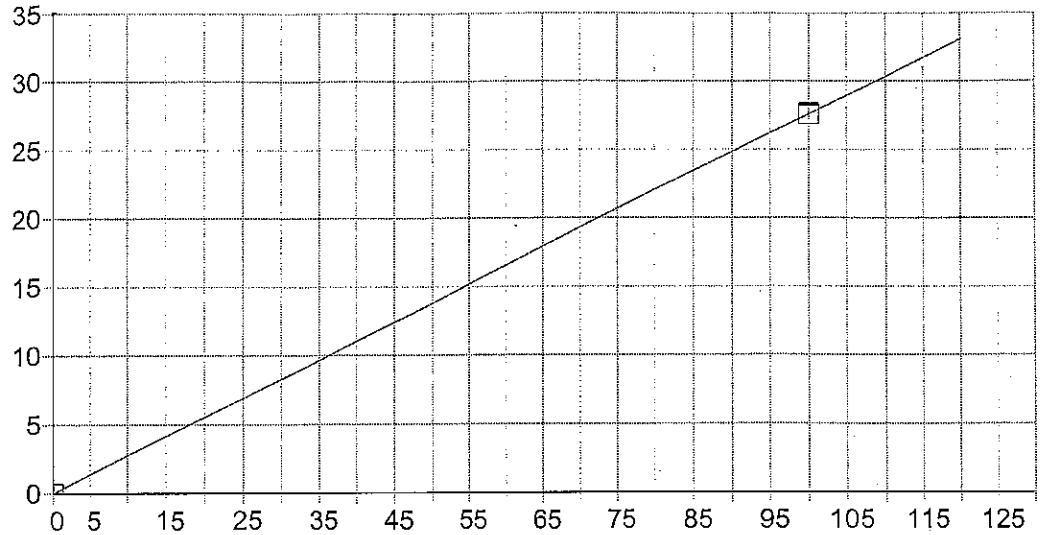


Mo 202.030 {467}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000379	Re-Slope:	1.000000
A1 (Gain):	0.709597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000404		
Predicted MQL:	0.001346		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00038	.000	1
S1	1.0000	1.0000	.000	.000	.70922	.015	1

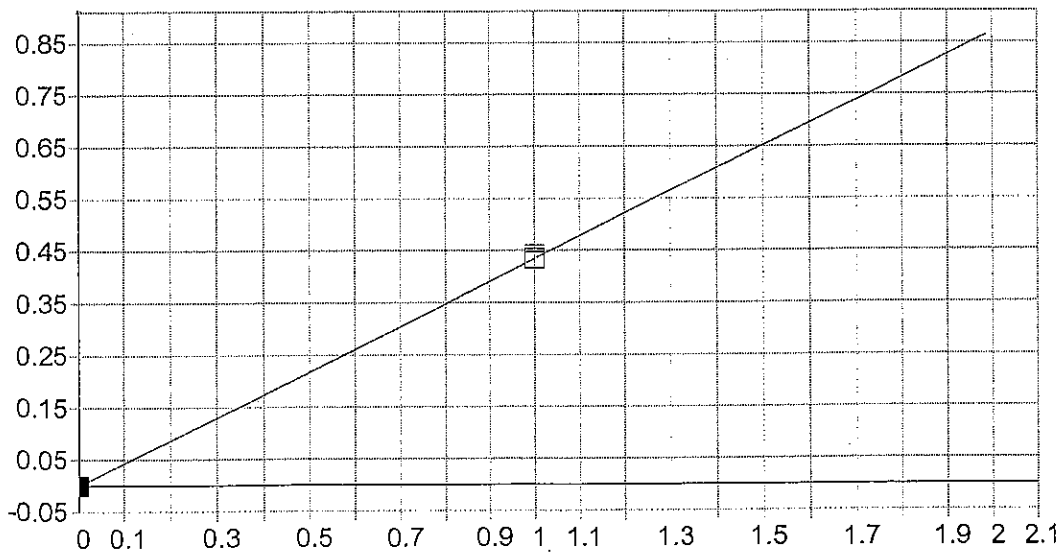


Na 589.592 { 57}

Date of Fit:	12/17/2012 8:53:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002467	Re-Slope:	1.000000
A1 (Gain):	0.275605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006091		
Predicted MQL:	0.020304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00247	.000	1
S2	100.00	100.00	.000	.000	27.563	.077	1

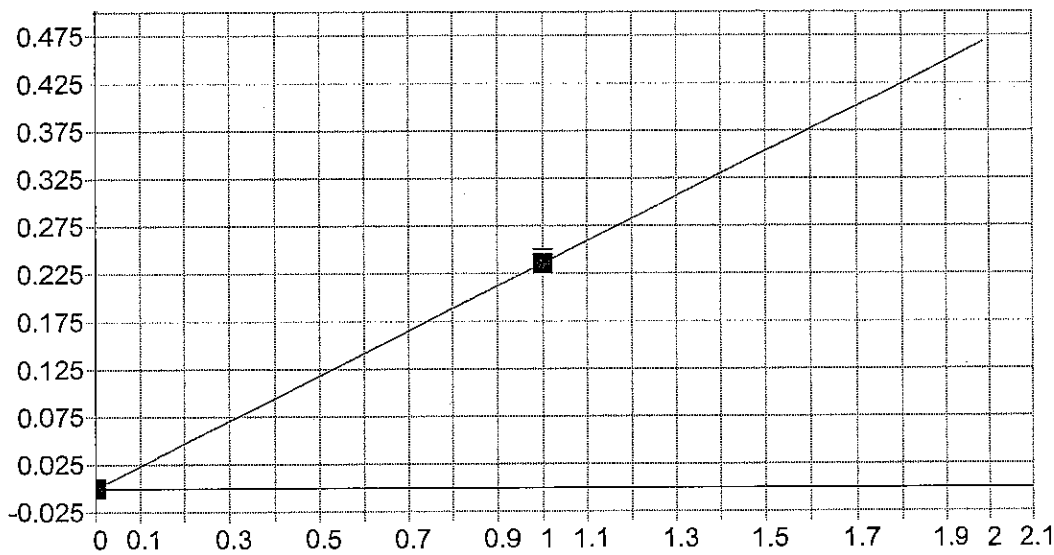


Ni 231.604 {446}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000582	Re-Slope:	1.000000
A1 (Gain):	0.434688	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000750		
Predicted MQL:	0.002500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00058	.000	1
S1	1.0000	1.0000	.000	.000	.43411	.006	1

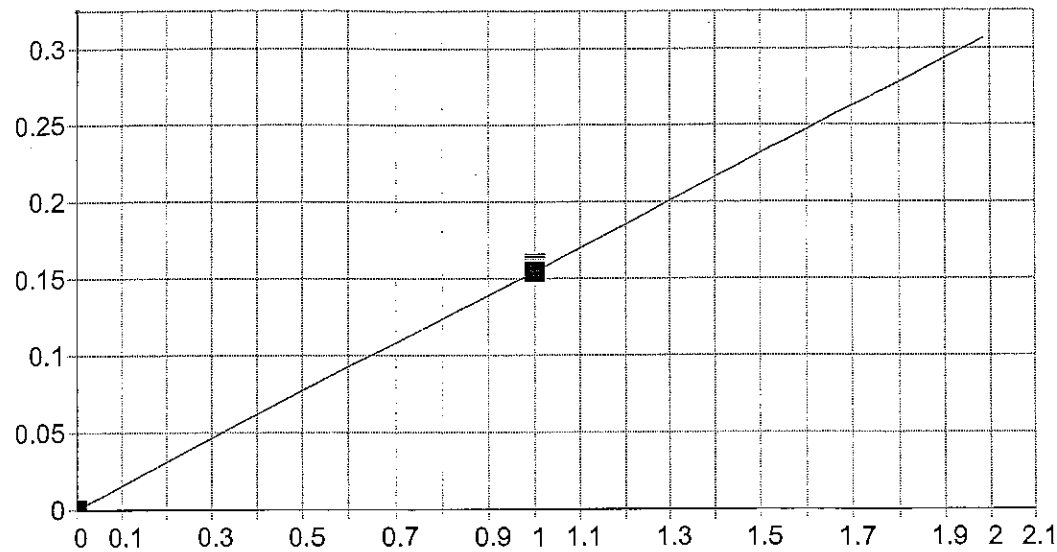


Pb 220.353 {453}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000165	Re-Slope:	1.000000
A1 (Gain):	0.235790	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001657		
Predicted MQL:	0.005523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00016	.000	1
S1	1.0000	1.00000	.000	.000	.23572	.004	1

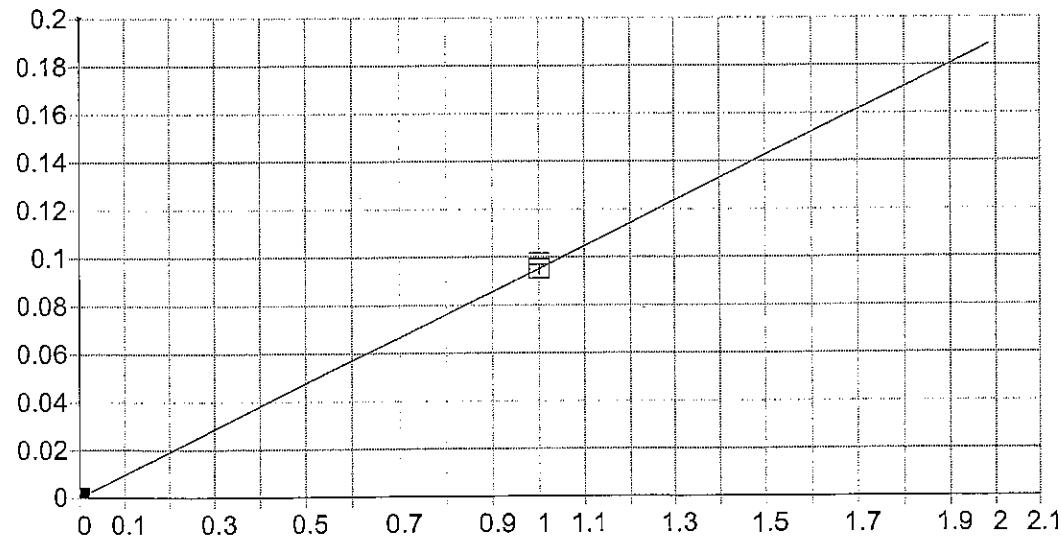


Sb 206.833 {463}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000201	Re-Slope:	1.000000
A1 (Gain):	0.154227	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001851		
Predicted MQL:	0.006169		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00020	.000	1
S1	1.0000	1.00000	.000	.000	.15625	.003	1

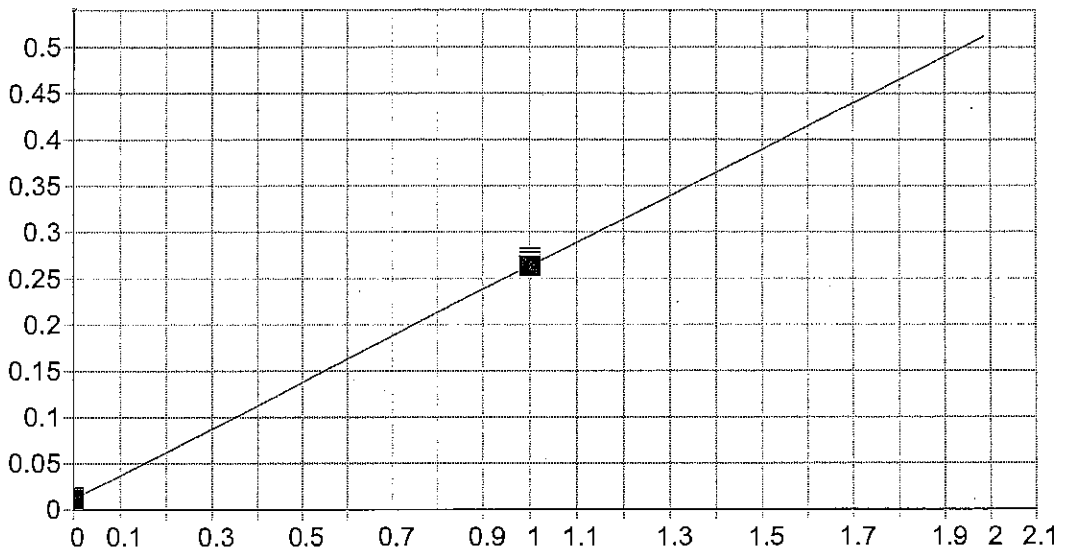


Se 196.090 {472}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.094908	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003032		
Predicted MQL:	0.010106		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00012	.000	1
S1	1.0000	1.0000	.000	.000	.09503	.002	1

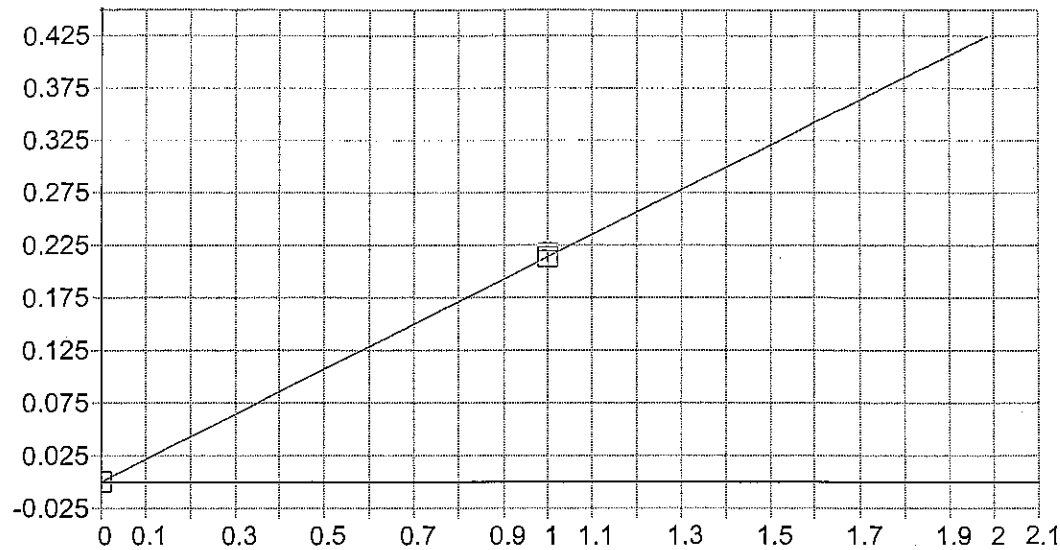


Si 212.412 {459}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011803	Re-Slope:	1.000000
A1 (Gain):	0.251687	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001042		
Predicted MQL:	0.003474		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01180	.001	1
S1	1.0000	1.0000	.000	.000	.26710	.004	1

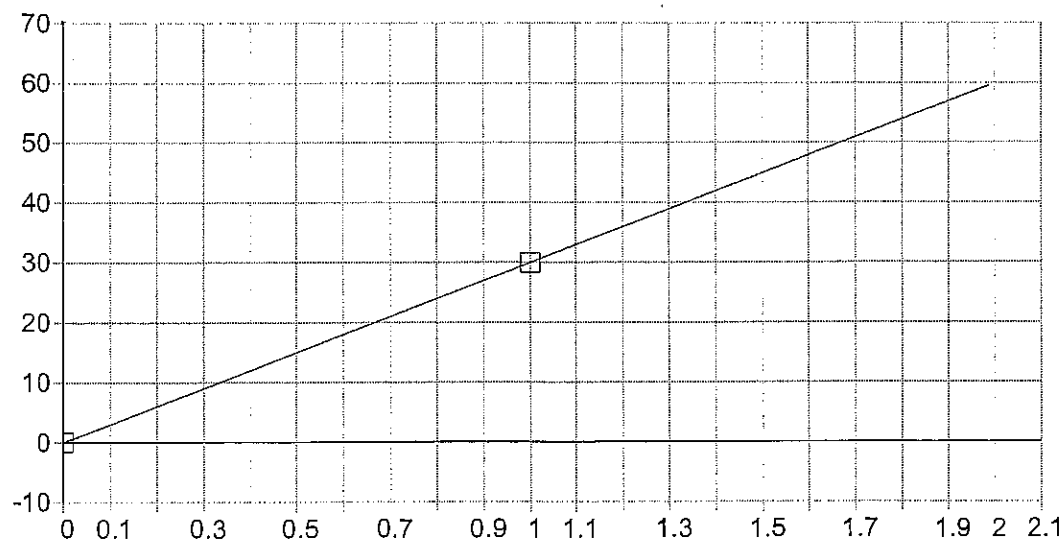


Sn 189.989 {477}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000213	Re-Slope:	1.000000
A1 (Gain):	0.213563	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001329		
Predicted MQL:	0.004428		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00021	.000	1
S1	1.0000	1.0000	.000	.000	.21378	.004	1

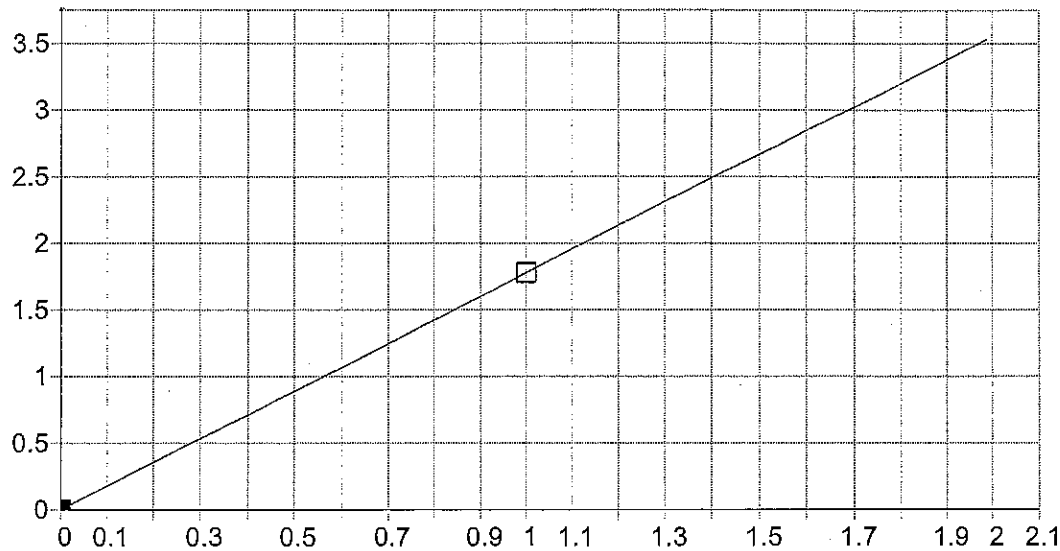


Sr 421.552 { 80}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000276	Re-Slope:	1.000000
A1 (Gain):	29.931516	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000016		
Predicted MQL:	0.000053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00028	.001	1
S1	1.0000	1.0000	.000	.000	29.932	.007	1

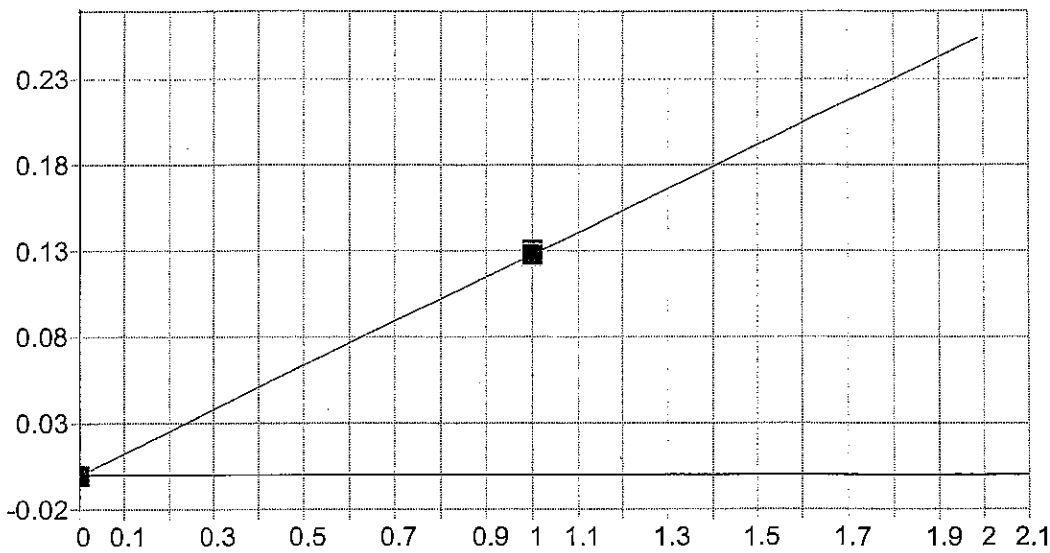


Ti 334.941 {101}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000446	Re-Slope:	1.000000
A1 (Gain):	1.777581	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000168		
Predicted MQL:	0.000560		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00045	.000	1
S1	1.0000	1.0000	.000	.000	1.7780	.006	1

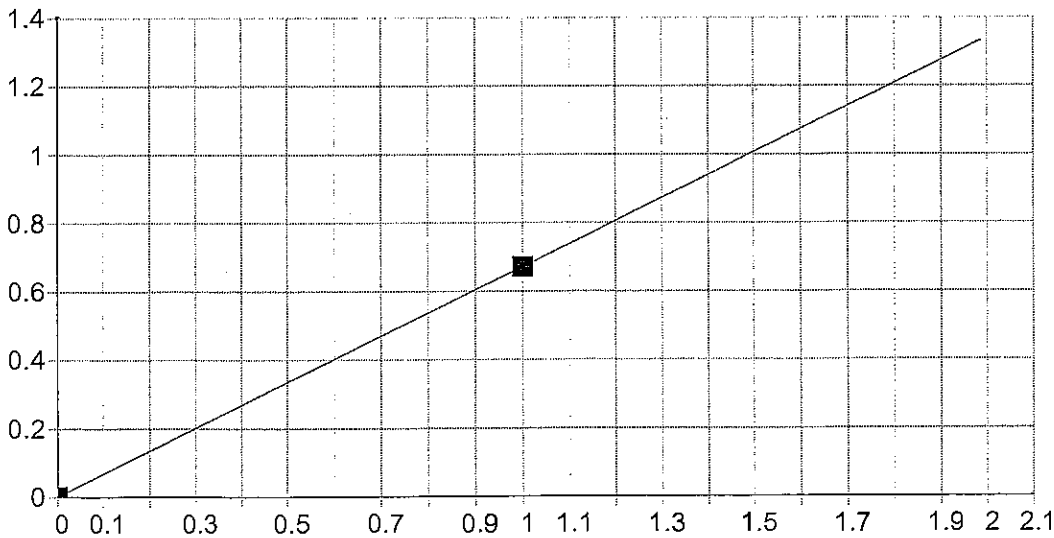


Tl 190.856 {477}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000464	Re-Slope:	1.000000
A1 (Gain):	0.128130	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001382		
Predicted MQL:	0.004607		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00046	.000	1
S1	1.0000	1.0000	.000	.000	.12677	.003	1

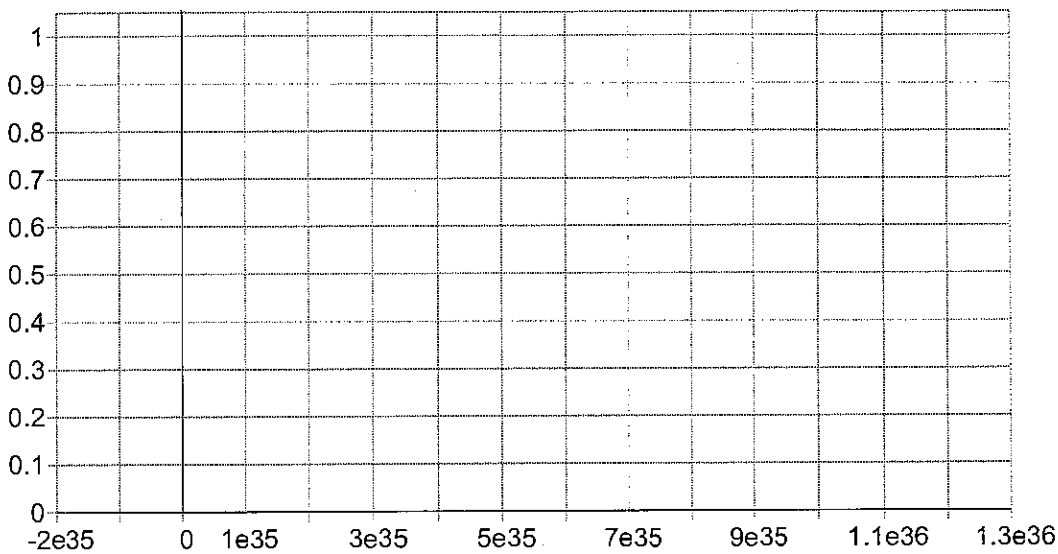


V 292.402 {115}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000568	Re-Slope:	1.000000
A1 (Gain):	0.670644	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000552		
Predicted MQL:	0.001840		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00057	.000	1
S1	1.0000	1.00000	.000	.000	.67036	.000	1

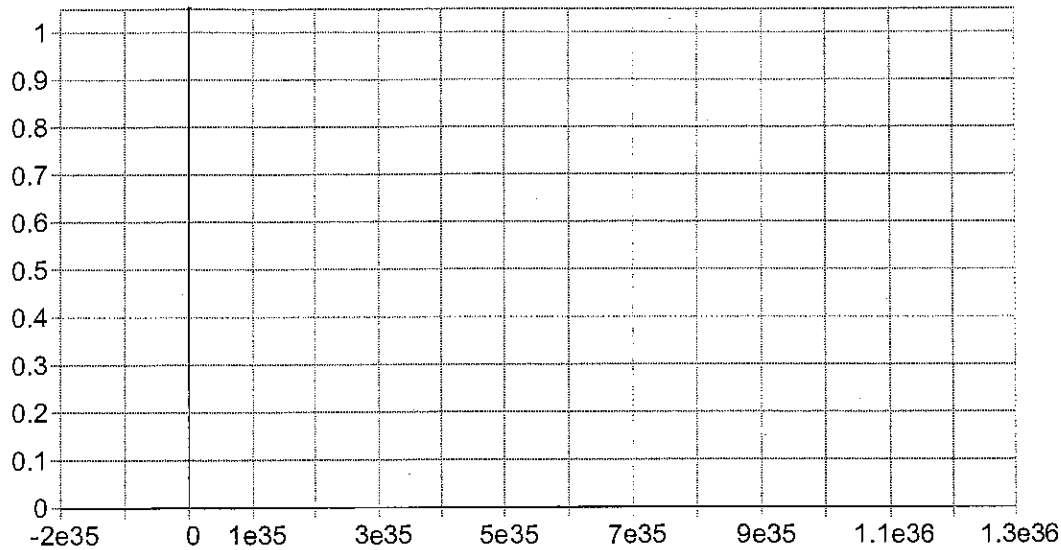


Y 224.306 {450}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

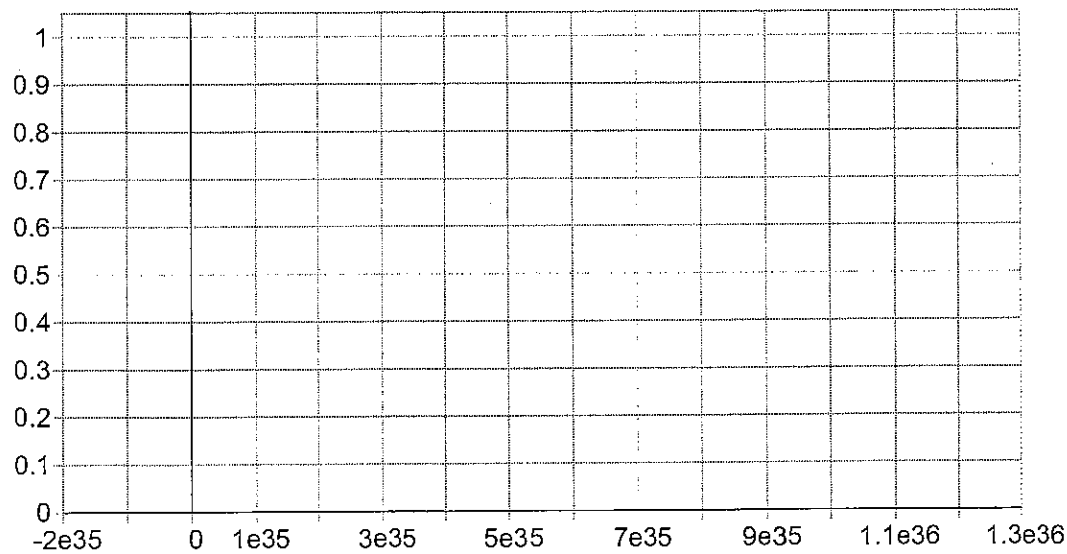


Y 360.073 { 94}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

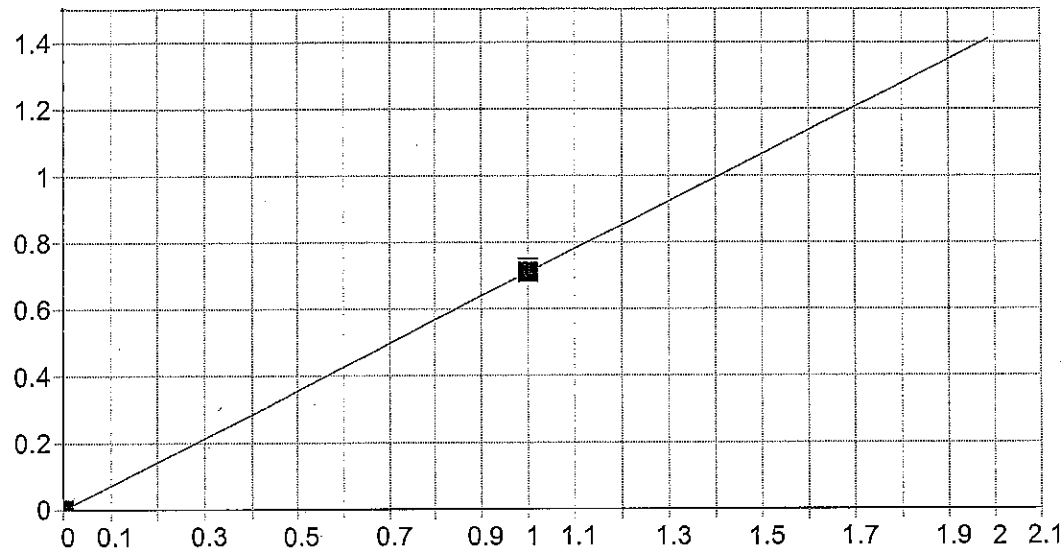


Y 371.030 { 91}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	12/17/2012 8:49:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.710085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000366		
Predicted MQL:	0.001219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00012	.000	1
S1	1.0000	1.0000	.000	.000	.70982	.012	1

Sample Name: S1 Acquired: 12/17/2012 8:53:51 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.005919	.1497078	.9961280	.9911853	1.015504	1.005241	.9972962
Stddev	.002803	.0147277	.0053837	.0055506	.003396	.002708	.0017917
%RSD	.2786869	9.837606	.5404585	.5599982	.3343789	.2694316	.1796609
#1	1.007902	.1392937	.9923212	.9872604	1.017905	1.007156	.9960293
#2	1.003937	.1601218	.9999348	.9951102	1.013103	1.003326	.9985632
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003799	.9906233	.9907025	1.003779	1.006876	-.003233	.0134889
Stddev	.002917	.0019585	.0007798	.002373	.000211	.005163	.0098001
%RSD	76.80297	.1977035	.0787106	.2364459	.0209852	159.7001	72.65297
#1	-.005862	.9892384	.9901511	1.005457	1.007026	.000418	.0204186
#2	-.001736	.9920081	.9912539	1.002101	1.006727	-.006884	.0065592
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119916	.9986950	.9922941	.0191534	.9994058	.9926664	.9974847
Stddev	.0084283	.0017781	.0028598	.0027865	.0003221	.0003386	.0001650
%RSD	70.28533	.1780411	.2882051	14.54847	.0322261	.0341122	.0165383
#1	.0060319	.9999523	.9902719	.0211237	.9996336	.9929058	.9976013
#2	.0179513	.9974377	.9943163	.0171830	.9991781	.9924269	.9973680
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 12/17/2012 8:53:51 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9888824	.9858932	.9919400	1.010178	1.004249	.9923427	1.006258
Stddev	.0039065	.0022808	.0006325	.008794	.001794	.0011328	.004034
%RSD	.3950399	.2313475	.0637585	.8705235	.1785999	.1141489	.4008974
#1	.9861201	.9842804	.9923872	1.016396	1.005518	.9915417	1.009110
#2	.9916447	.9875060	.9914928	1.003960	1.002981	.9931437	1.003405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.9916742
Stddev	.0007600
%RSD	.0766346
#1	.9922116
#2	.9911368
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.243	2417.050	12758.88	5992.590
Stddev	3.256	6.551	16.44	15.317
%RSD	.1130925	.2710403	.1288126	.2555982
#1	2881.545	2421.682	12747.26	5981.760
#2	2876.940	2412.417	12770.50	6003.421

Sample Name: S2 Acquired: 12/17/2012 8:57:48 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004853	99.52857	-.001062	.0001332	-.000348	.0000101	-.001329
Stddev	.0002400	.14050	.003330	.0003723	.000050	.0001088	.000376
%RSD	49.46462	.1411645	313.5082	279.4214	14.21760	1072.355	28.27665
#1	.0003155	99.42922	.001293	-.000130	-.000313	.0000871	-.001595
#2	.0006550	99.62792	-.003417	.000396	-.000383	-.000067	-.001063
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.69365	-.000012	.0005491	.0000427	.0015806	98.56567	99.17136
Stddev	.16879	.000091	.0000230	.0001861	.0000618	.12657	.17598
%RSD	.1710228	772.6598	4.192578	435.9027	3.911935	.1284148	.1774539
#1	98.81300	.000052	.0005328	.0001743	.0016244	98.65517	99.04692
#2	98.57430	-.000076	.0005654	-.000089	.0015369	98.47617	99.29580
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.88284	-.000333	.0008659	99.35962	-.001405	.0033339	.0002734
Stddev	.04431	.000298	.0000266	.09260	.000195	.0008714	.0008266
%RSD	.0448118	89.37500	3.069742	.0932017	13.86477	26.13718	302.3486
#1	98.85151	-.000123	.0008471	99.29414	-.001543	.0027178	-.000311
#2	98.91417	-.000543	.0008847	99.42510	-.001267	.0039501	.000858
Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Sample Name: S2 Acquired: 12/17/2012 8:57:48 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001418	.0015451	.0038091	.0041087	.0023127	.0007325	-.001359
Stddev	.000408	.0002803	.0000260	.0000132	.0001211	.0001094	.000203
%RSD	28.73354	18.13907	.6825428	.3206144	5.236137	14.93265	14.94959
#1	-.001130	.0013470	.0037907	.0041180	.0023983	.0008099	-.001502
#2	-.001707	.0017433	.0038275	.0040994	.0022270	.0006552	-.001215
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	-.000372
Stddev	.000010
%RSD	2.785223
#1	-.000380
#2	-.000365
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2394.675	2261.883	11839.46	5895.297
Stddev	6.845	11.320	28.07	3.123
%RSD	.2858255	.5004465	.2370606	.0529766
#1	2399.515	2269.887	11819.62	5893.089
#2	2389.836	2253.879	11859.31	5897.506

Sample Name: ICV Acquired: 12/17/2012 9:01:49 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3974958	41.11766	.3984061	.3991126	.4014503	.4032859	.4063979
Stddev	.0003566	.12195	.0043977	.0006617	.0013188	.0020457	.0037744
%RSD	.0897122	.2965901	1.103831	.1657839	.3285159	.5072655	.9287432
#1	.3972437	41.03143	.3952964	.3986447	.4005177	.4018393	.4037290
#2	.3977480	41.20389	.4015158	.3995804	.4023828	.4047324	.4090668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.22225	.3968326	.4083796	.4006744	.4026476	19.96112	39.67811
Stddev	.04044	.0026566	.0028951	.0016009	.0011198	.03680	.15083
%RSD	.2000011	.6694616	.7089290	.3995454	.2781113	.1843620	.3801315
#1	20.19365	.3949541	.4063325	.3995424	.4034394	19.93510	39.57146
#2	20.25085	.3987111	.4104268	.4018064	.4018557	19.98715	39.78476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.48828	3.893760	.3784669	20.08872	.4070497	.4119680	.3882484
Stddev	.05716	.006957	.0031972	.08488	.0018499	.0015776	.0046009
%RSD	.2933055	.1786627	.8447678	.4225150	.4544692	.3829498	1.185051
#1	19.44786	3.888841	.3762061	20.02870	.4057416	.4108525	.3849950
#2	19.52869	3.898680	.3807276	20.14873	.4083578	.4130836	.3915017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 12/17/2012 9:01:49 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3907044	.4185884	.4088728	.4016446	.3945952	.4296890	4.023841
Stddev	.0074552	.0017048	.0023306	.0003561	.0000577	.0013463	.002762
%RSD	1.908135	.4072858	.5700017	.0886501	.0146202	.3133260	.0686467
#1	.3854328	.4173829	.4072248	.4018964	.3945544	.4287370	4.021888
#2	.3959760	.4197939	.4105207	.4013929	.3946360	.4306410	4.025794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.4143228
Stddev	.0034821
%RSD	.8404385
#1	.4118606
#2	.4167851
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2626.340	2358.047	12289.56	5961.566
Stddev	11.413	9.884	17.57	16.432
%RSD	.4345602	.4191659	.1429788	.2756393
#1	2634.410	2365.036	12277.13	5973.186
#2	2618.269	2351.058	12301.98	5949.947

Sample Name: ICB Acquired: 12/17/2012 9:05:42 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	-.031699	-.000730	.0004689	-.000440	-.000091	.0005960
Stddev	.000579	.014017	.001718	.0000357	.000046	.000000	.0007090
%RSD	5500.320	44.21829	235.2620	7.604262	10.43433	.5199626	118.9589
#1	-.000420	-.021788	.000484	.0004437	-.000472	-.000092	.0000947
#2	.000399	-.041611	-.001945	.0004942	-.000407	-.000091	.0010973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005217	.0001107	.0001063	.0003123	-.000187	.0186877	.0334828
Stddev	.002040	.0000275	.0000272	.0004339	.000134	.0318693	.0235487
%RSD	39.09359	24.88642	25.57924	138.9539	72.09655	170.5363	70.33078
#1	-.006659	.0000912	.0000871	.0000055	-.000091	.0412226	.0501342
#2	-.003775	.0001302	.0001255	.0006191	-.000282	-.003847	.0168313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038855	-.000100	.0005886	.0141394	.0000905	.0012542	-.000178
Stddev	.0061300	.000023	.0003006	.0013036	.0006753	.0011835	.000125
%RSD	157.7637	23.38621	51.06156	9.219272	746.1252	94.36439	70.22437
#1	-.000449	-.000083	.0008012	.0150612	.0005680	.0004173	-.000267
#2	.008220	-.000116	.0003761	.0132177	-.000387	.0020911	-.000090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 12/17/2012 9:05:42 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000298	-.000928	-.000255	-.000026	-.000015	.0014662	.0000233
Stddev	.000843	.001381	.000306	.000003	.000186	.0005263	.0001233
%RSD	283.2936	148.8815	119.9927	10.70092	1284.185	35.89220	529.8981
#1	-.000894	-.001904	-.000039	-.000028	.000117	.0018383	.0001105
#2	.000299	.000049	-.000472	-.000024	-.000146	.0010941	-.000064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0000139
Stddev	.0000736
%RSD	529.0945
#1	.0000659
#2	-.000038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.233	2413.488	12744.20	5928.972
Stddev	5.066	5.686	.46	21.455
%RSD	.1758851	.2355811	.0036289	.3618699
#1	2883.815	2417.509	12744.52	5913.801
#2	2876.651	2409.468	12743.87	5944.143

Sample Name: CRI Acquired: 12/17/2012 9:08:55 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097789	.3826838	.0191307	.0983422	.0198671	.0079072	.0985150
Stddev	.0002321	.0227143	.0008599	.0019175	.0002131	.0001787	.0032798
%RSD	2.373413	5.935531	4.494640	1.949831	1.072749	2.259490	3.329245
#1	.0099430	.3987453	.0197387	.0969864	.0200178	.0080336	.0961958
#2	.0096148	.3666224	.0185227	.0996981	.0197164	.0077809	.1008342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4000033	.0040438	.0097845	.0191122	.0197131	.4339594	.9886704
Stddev	.0048411	.0003143	.0001122	.0001825	.0001769	.0350791	.0152424
%RSD	1.210278	7.773073	1.146233	.9550557	.8971460	8.083494	1.541708
#1	.4034265	.0038216	.0097051	.0192413	.0198381	.4587641	.9994485
#2	.3965801	.0042661	.0098638	.0189831	.0195880	.4091548	.9778924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1849045	.0200331	.0190713	2.000788	.0195521	.0105108	.0388374
Stddev	.0089291	.0001541	.0004954	.022068	.0005419	.0004667	.0019190
%RSD	4.829019	.7691134	2.597435	1.102972	2.771710	4.440363	4.941159
#1	.1912183	.0201421	.0187210	2.016392	.0191689	.0101808	.0374804
#2	.1785906	.0199242	.0194215	1.985183	.0199353	.0108408	.0401943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 12/17/2012 9:08:55 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210966	.3827258	.0769945	.0101282	.0098628	.0199746	.0095079
Stddev	.0004752	.0076359	.0020974	.0000417	.0001111	.0000399	.0004183
%RSD	2.252660	1.995150	2.724155	.4121046	1.126237	.1995894	4.399715
#1	.0214326	.3773263	.0755114	.0101577	.0097843	.0200027	.0092121
#2	.0207605	.3881252	.0784776	.0100987	.0099414	.0199464	.0098037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.0392459
Stddev	.0001329
%RSD	.3385269
#1	.0391520
#2	.0393399
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2876.358	2418.001	12802.65	5968.517
Stddev	37.069	36.411	37.43	70.404
%RSD	1.288750	1.505812	.2923895	1.179589
#1	2902.570	2443.747	12776.18	5918.734
#2	2850.146	2392.255	12829.12	6018.300

Sample Name: ICSA Acquired: 12/17/2012 9:12:59 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000450	506.0616	.0028631	-.000710	-.000254	.0003617	-.000662
Stddev	.000743	1.0521	.0012444	.000320	.000084	.0002057	.001780
%RSD	165.1094	.2079005	43.46378	45.03957	33.15022	56.85857	268.6506
#1	-.000975	505.3177	.0037431	-.000484	-.000313	.0005071	.000596
#2	.000075	506.8056	.0019832	-.000936	-.000194	.0002163	-.001921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	470.2032	-.000468	-.002853	.0028219	.0033402	186.9528	.0180270
Stddev	1.2360	.000139	.000105	.0000671	.0003094	.3223	.0049996
%RSD	.2628729	29.71247	3.674042	2.378499	9.263766	.1724061	27.73410
#1	469.3292	-.000370	-.002927	.0028693	.0031214	186.7249	.0215623
#2	471.0772	-.000567	-.002779	.0027744	.0035590	187.1807	.0144917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	505.4980	.0004475	-.000401	.0428339	-.006426	.0086564	-.000231
Stddev	1.1519	.0000581	.000062	.0007859	.000279	.0027282	.002391
%RSD	.2278778	12.99300	15.34818	1.834682	4.346856	31.51621	1036.827
#1	504.6834	.0004886	-.000357	.0422782	-.006229	.0105856	-.001921
#2	506.3125	.0004064	-.000444	.0433895	-.006624	.0067273	.001460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 12/17/2012 9:12:59 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003995	-.001910	.0131034	.0021280	.0027972	-.008022	-.002057
Stddev	.004651	.000949	.0046031	.0000134	.0001566	.001105	.000784
%RSD	116.4065	49.66974	35.12910	.6282939	5.599518	13.77524	38.12328
#1	-.000707	-.001239	.0098485	.0021374	.0026864	-.007240	-.001502
#2	-.007284	-.002581	.0163583	.0021185	.0029079	-.008803	-.002611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0005452
Stddev	.0004986
%RSD	91.44830
#1	.0001927
#2	.0008978
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2120.447	2098.837	11003.32	5652.596
Stddev	12.895	15.629	10.21	14.598
%RSD	.6081379	.7446275	.0928263	.2582485
#1	2129.565	2109.888	10996.10	5662.919
#2	2111.328	2087.786	11010.54	5642.274

Sample Name: ICSAB Acquired: 12/17/2012 9:18:02 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2174822	510.6684	.1059341	-.000366	.5017301	.5052392	-.003968
Stddev	.0003991	5.8210	.0004747	.000929	.0062694	.0080986	.001772
%RSD	.1835216	1.139887	.4481104	253.7631	1.249549	1.602927	44.65902
#1	.2177644	514.7845	.1062698	.000291	.5061632	.5109658	-.002715
#2	.2172000	506.5523	.1055984	-.001023	.4972969	.4995127	-.005221
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	464.4862	1.009792	.5129744	.4715657	.5421576	186.7678	-.004900
Stddev	5.7116	.003966	.0015850	.0028838	.0005921	2.7167	.007351
%RSD	1.229663	.3927635	.3089840	.6115441	.1092149	1.454588	150.0275
#1	468.5250	1.006988	.5118536	.4736049	.5425763	188.6888	-.010098
#2	460.4475	1.012596	.5140951	.4695265	.5417389	184.8468	.000298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	504.1405	.4612000	-.000955	.0497094	1.014223	.0593083	.6010201
Stddev	7.0606	.0090917	.000270	.0023528	.001364	.0006827	.0004162
%RSD	1.400528	1.971321	28.29481	4.733134	.1345259	1.151064	.0692484
#1	509.1331	.4676288	-.001147	.0480457	1.013258	.0588256	.6007258
#2	499.1479	.4547711	-.000764	.0513731	1.015187	.0597911	.6013144
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 12/17/2012 9:18:02 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0431737	-.001072	.0105546	.0021329	.0039858	.0900892	.4891503
Stddev	.0104953	.000207	.0003230	.0000064	.0001893	.0009592	.0021653
%RSD	24.30956	19.30167	3.059853	.2986832	4.750102	1.064761	.4426678
#1	.0357523	-.001218	.0107830	.0021374	.0041197	.0894109	.4906814
#2	.0505950	-.000926	.0103263	.0021284	.0038519	.0907674	.4876192
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	1.002427
Stddev	.000267
%RSD	.0266303
#1	1.002616
#2	1.002238
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2121.890	2084.615	11004.74	5685.259
Stddev	12.093	12.662	17.26	73.683
%RSD	.5699229	.6073834	.1568807	1.296035
#1	2130.441	2093.568	10992.53	5633.158
#2	2113.339	2075.662	11016.95	5737.361

Sample Name: CCV Acquired: 12/17/2012 9:22:52 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5013361	52.89299	.5089493	.4997190	.5041895	.5042931	.5064826
Stddev	.0002939	.05149	.0006053	.0005837	.0003585	.0003410	.0005641
%RSD	.0586183	.0973551	.1189284	.1168074	.0710945	.0676133	.1113689
#1	.5015439	52.92940	.5085213	.5001318	.5039360	.5045342	.5068815
#2	.5011283	52.85657	.5093773	.4993063	.5044430	.5040520	.5060838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.10533	.4927085	.5067092	.4997021	.5009374	25.18730	50.41669
Stddev	.01729	.0003232	.0006548	.0004712	.0010078	.04061	.10700
%RSD	.0688719	.0655897	.1292213	.0943056	.2011816	.1612274	.2122384
#1	25.11756	.4929370	.5062462	.4993689	.5016501	25.15859	50.34103
#2	25.09310	.4924800	.5071722	.5000353	.5002248	25.21602	50.49236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.60393	4.871297	.4762501	25.23990	.5087257	.5099597	.4893922
Stddev	.05271	.006580	.0009285	.05179	.0029288	.0018693	.0032370
%RSD	.2142161	.1350814	.1949549	.2051972	.5757218	.3665633	.6614378
#1	24.64120	4.866644	.4755935	25.20328	.5066547	.5112815	.4916811
#2	24.56666	4.875950	.4769066	25.27652	.5107967	.5086379	.4871032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/17/2012 9:22:52 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4951432	.5167742	.5149751	.5010410	.4949218	.5296835	5.031200
Stddev	.0033811	.0011616	.0004472	.0002766	.0000857	.0005071	.004249
%RSD	.6828511	.2247728	.0868434	.0552091	.0173112	.0957308	.0844498
#1	.4927524	.5159529	.5152914	.5012366	.4948612	.5293250	5.028196
#2	.4975340	.5175956	.5146589	.5008453	.4949824	.5300421	5.034204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5157806
Stddev	.0029982
%RSD	.5812893
#1	.5136606
#2	.5179007
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.055	2324.292	12138.74	5836.242
Stddev	2.496	4.533	12.51	3.632
%RSD	.0964623	.1950250	.1030267	.0622338
#1	2588.820	2321.087	12129.90	5838.810
#2	2585.290	2327.497	12147.59	5833.673

Sample Name: CCB Acquired: 12/17/2012 9:26:45 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000223	-.013536	-.002066	-.000114	-.000479	-.000135	.0020297
Stddev	.000318	.001830	.001887	.000734	.000080	.000010	.0001632
%RSD	142.6283	13.52220	91.32908	641.1228	16.60381	7.540054	8.041367
#1	-.000448	-.014830	-.003400	.000405	-.000423	-.000128	.0021451
#2	.000002	-.012242	-.000732	-.000633	-.000536	-.000142	.0019143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005183	.0000816	.0000641	.0004592	-.000428	.0211049	.0159603
Stddev	.003465	.0000143	.0001528	.0000122	.000135	.0161882	.0070163
%RSD	66.84743	17.45941	238.2482	2.665609	31.55793	76.70331	43.96124
#1	-.007634	.0000715	.0001722	.0004679	-.000332	.0325517	.0109990
#2	-.002733	.0000917	-.000044	.0004505	-.000523	.0096582	.0209216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001988	-.000137	.0006592	.0190888	.0005994	.0008866	.0002430
Stddev	.003127	.000259	.0001616	.0017370	.0007113	.0000314	.0011977
%RSD	157.2765	189.3291	24.51883	9.099463	118.6748	3.539237	492.8474
#1	-.004199	-.000320	.0007734	.0178605	.0000964	.0009088	.0010899
#2	.000223	.000046	.0005449	.0203170	.0011024	.0008644	-.000604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/17/2012 9:26:45 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006172	.0009194	-.000113	.0000318	.0000048	.0006976	-.000105
Stddev	.0003003	.0001451	.000356	.0000058	.0000027	.0000855	.000251
%RSD	48.65988	15.78569	316.3820	18.18920	56.64867	12.24802	238.9628
#1	.0008296	.0010220	-.000364	.0000277	.0000029	.0007581	.000072
#2	.0004048	.0008168	.000139	.0000359	.0000067	.0006372	-.000283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0002236
Stddev	.0002758
%RSD	123.3419
#1	.0004186
#2	.0000286
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2881.077	2396.629	12706.39	5925.151
Stddev	10.634	3.951	6.05	2.987
%RSD	.3691143	.1648732	.0476499	.0504194
#1	2873.557	2393.835	12702.11	5927.264
#2	2888.596	2399.423	12710.67	5923.039

Sample Name: CCV Acquired: 12/17/2012 9:49:25 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4999540	52.69268	.5082686	.5004623	.5044398	.5014273	.5065740
Stddev	.0009875	.10898	.0030443	.0021772	.0009948	.0008380	.0011023
%RSD	.1975167	.2068268	.5989642	.4350348	.1972135	.1671194	.2175997
#1	.5006523	52.76974	.5061159	.4989228	.5051433	.5008348	.5057945
#2	.4992558	52.61562	.5104213	.5020018	.5037364	.5020199	.5073534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.92184	.4909275	.5059270	.4996869	.4974260	24.98994	50.34815
Stddev	.03735	.0022812	.0011634	.0004603	.0000892	.04861	.06201
%RSD	.1498749	.4646772	.2299560	.0921257	.0179258	.1945180	.1231640
#1	24.89542	.4893144	.5051044	.5000124	.4973629	25.02431	50.39200
#2	24.94825	.4925406	.5067497	.4993613	.4974890	24.95556	50.30430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.41433	4.849238	.4770211	25.21245	.5088927	.5073733	.4877674
Stddev	.07829	.005785	.0032175	.02633	.0017707	.0000484	.0025533
%RSD	.3206717	.1192888	.6744971	.1044160	.3479480	.0095484	.5234562
#1	24.35897	4.845147	.4747460	25.23107	.5101448	.5073390	.4859620
#2	24.46969	4.853328	.4792962	25.19384	.5076407	.5074075	.4895728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/17/2012 9:49:25 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5016485	.5139840	.5124831	.4982184	.4938547	.5299867	5.020936
Stddev	.0041312	.0010069	.0011273	.0018924	.0000367	.0044844	.005336
%RSD	.8235306	.1958938	.2199754	.3798329	.0074319	.8461364	.1062711
#1	.4987273	.5132720	.5116860	.4995566	.4938288	.5268157	5.024709
#2	.5045697	.5146959	.5132803	.4968803	.4938807	.5331576	5.017163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5134760
Stddev	.0002812
%RSD	.0547578
#1	.5132772
#2	.5136748
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.874	2327.293	12206.01	5891.135
Stddev	8.471	9.003	8.61	11.972
%RSD	.3267111	.3868328	.0705186	.2032206
#1	2598.864	2333.659	12199.92	5899.600
#2	2586.884	2320.927	12212.09	5882.670

Sample Name: CCB Acquired: 12/17/2012 9:53:20 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000054	-.021780	-.000089	-.000738	-.000408	-.000223	.0031440
Stddev	.000364	.004350	.000562	.000216	.000113	.000041	.0024324
%RSD	672.5994	19.97069	633.2147	29.29045	27.81847	18.47281	77.36841
#1	.000203	-.024856	-.000486	-.000585	-.000327	-.000193	.0014240
#2	-.000311	-.018704	.000308	-.000890	-.000488	-.000252	.0048639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028970	-.000078	.0002238	.0004182	-.000226	.0082047	.0172439
Stddev	.0025522	.000118	.0001391	.0005475	.000217	.0349774	.0201683
%RSD	88.10048	152.3694	62.15030	130.9181	96.03543	426.3102	116.9592
#1	.0010923	-.000161	.0003222	.0000311	-.000073	-.016528	.0029827
#2	.0047017	.000006	.0001255	.0008054	-.000380	.032937	.0315050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004150	.0002763	.0005734	.0312344	.0010023	-.000619	-.000498
Stddev	.006538	.0000325	.0003368	.0010508	.0000285	.000220	.000688
%RSD	157.5710	11.77636	58.73228	3.364320	2.847219	35.49982	138.3099
#1	.000474	.0002533	.0008116	.0319775	.0009821	-.000463	-.000011
#2	-.008773	.0002993	.0003353	.0304914	.0010225	-.000774	-.000984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/17/2012 9:53:20 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001184	-.001277	-.000549	.0000288	.0000888	.0016224	.0001609
Stddev	.002241	.000598	.000261	.0000094	.0000172	.0015372	.0001151
%RSD	189.2643	46.87282	47.49378	32.58203	19.33347	94.74798	71.49817
#1	-.002769	-.001700	-.000365	.0000354	.0001009	.0027093	.0002423
#2	.000401	-.000854	-.000733	.0000221	.0000767	.0005354	.0000796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0004415
Stddev	.0000369
%RSD	8.365134
#1	.0004153
#2	.0004676
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.475	2386.514	12715.11	5894.971
Stddev	8.763	11.874	6.10	48.487
%RSD	.3056020	.4975396	.0479613	.8225128
#1	2873.672	2394.910	12719.42	5929.257
#2	2861.279	2378.117	12710.80	5860.686

Sample Name: CCV Acquired: 12/17/2012 10:43:21 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5015856	53.58584	.5146636	.4924687	.5001212	.5038023	.5147879
Stddev	.0003743	.04963	.0016226	.0004638	.0010939	.0008733	.0003280
%RSD	.0746253	.0926200	.3152804	.0941830	.2187301	.1733401	.0637123
#1	.5018502	53.62093	.5135162	.4921407	.5008947	.5031848	.5145559
#2	.5013209	53.55074	.5158110	.4927967	.4993477	.5044198	.5150198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.14900	.4885659	.5031037	.5065715	.4912482	25.13915	49.93671
Stddev	.04473	.0006296	.0002237	.0005243	.0007263	.20644	.08979
%RSD	.1778760	.1288750	.0444667	.1034916	.1478451	.8212062	.1798042
#1	25.18063	.4881207	.5032619	.5069422	.4917618	25.28513	50.00020
#2	25.11737	.4890111	,5029455	.5062008	.4907346	24.99317	49.87322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.76108	4.850238	.4761730	24.87394	.5176913	.5088199	.4890674
Stddev	.03722	.008812	.0012987	.04861	.0022511	.0000879	.0020230
%RSD	.1503156	.1816749	.2727383	.1954395	.4348249	.0172765	.4136512
#1	24.78740	4.856469	.4752547	24.90832	.5192830	.5088820	.4876369
#2	24.73476	4.844007	.4770913	24.83957	.5160995	.5087577	.4904979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/17/2012 10:43:21 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5007216	.5069620	.5127864	.5051493	.4933129	.5304427	5.073470
Stddev	.0023708	.0028930	.0010106	.0006982	.0006765	.0013053	.002692
%RSD	.4734730	.5706502	.1970815	.1382202	.1371341	.2460834	.0530657
#1	.4990452	.5049164	.5135010	.5056430	.4937912	.5295197	5.071566
#2	.5023980	.5090077	.5120718	.5046556	.4928345	.5313657	5.075374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5183319
Stddev	.0015663
%RSD	.3021865
#1	.5194395
#2	.5172244
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.674	2359.874	12296.90	5806.825
Stddev	1.629	4.646	3.93	7.707
%RSD	.0621255	.1968738	.0319270	.1327265
#1	2622.826	2363.159	12299.68	5801.376
#2	2620.522	2356.589	12294.13	5812.275

Sample Name: CCB Acquired: 12/17/2012 10:47:12 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000904	-.018687	.0021651	-.000455	-.000282	-.000026	.0043905
Stddev	.0000697	.028792	.0006560	.000102	.000027	.000256	.0004105
%RSD	77.13444	154.0792	30.29949	22.40258	9.661783	967.6686	9.349094
#1	.0001397	.001673	.0017012	-.000383	-.000302	.000154	.0046807
#2	.0000411	-.039046	.0026289	-.000528	-.000263	-.000207	.0041002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0432114	.0000115	.0004255	.0000837	-.000620	.0105686	.0186295
Stddev	.0246899	.0001009	.0001198	.0001867	.000213	.0397844	.0071001
%RSD	57.13740	881.3770	28.14589	223.2068	34.32678	376.4393	38.11207
#1	.0257530	-.000060	.0003408	.0002157	-.000771	.0387005	.0136090
#2	.0606698	.000083	.0005102	-.000048	-.000470	-.017563	.0236500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133493	.0002430	.0010077	.0211698	.0009900	-.000092	-.000732
Stddev	.0013068	.0001978	.0001857	.0008998	.0000799	.000835	.000044
%RSD	9.789470	81.39750	18.42784	4.250286	8.069017	905.8552	6.011067
#1	.0124252	.0003829	.0011390	.0218060	.0010465	-.000682	-.000763
#2	.0142733	.0001031	.0008764	.0205335	.0009335	.000498	-.000701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/17/2012 10:47:12 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001569	-.003082	-.000834	.0000395	.0002469	.0016556	.0000408
Stddev	.0030555	.001355	.000173	.0000038	.0000854	.0000152	.0008304
%RSD	1947.431	43.96402	20.78839	9.587807	34.56384	.9152513	2033.175
#1	.0023175	-.004040	-.000957	.0000422	.0001866	.0016449	.0006281
#2	-.002004	-.002124	-.000711	.0000369	.0003073	.0016663	-.000546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0001816
Stddev	.0000197
%RSD	10.86661
#1	.0001676
#2	.0001955
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2885.357	2406.747	12836.44	5883.755
Stddev	4.854	9.162	70.41	49.905
%RSD	.1682123	.3806910	.5484885	.8481807
#1	2881.925	2400.268	12886.23	5919.043
#2	2888.789	2413.225	12786.65	5848.467

Sample Name: CCV Acquired: 12/17/2012 11:24:22 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5178488	F 55.60923	.5191692	.4713731	.5019800	.5278889
Stddev	.0023401	.27051	.0047523	.0004683	.0037314	.0036994
%RSD	.4518943	.4864553	.9153745	.0993570	.7433308	.7007899
#1	.5195035	55.80051	.5225296	.4717042	.5046185	.5305048
#2	.5161941	55.41795	.5158088	.4710419	.4993415	.5252731
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		50.00000				
Range		10.00000%				

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5141031	27.10150	.4922156	.5246441	.5464861	.4776054
Stddev	.0024943	.19643	.0002690	.0011054	.0027309	.0029286
%RSD	.4851692	.7247832	.0546514	.2106974	.4997205	.6131887
#1	.5123394	27.24040	.4920254	.5238624	.5484172	.4796763
#2	.5158668	26.96261	.4924058	.5254257	.5445551	.4755346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.75329	50.21764	26.40125	5.081269	.4779026	24.63948
Stddev	.15843	.27778	.17326	.034479	.0008925	.16322
%RSD	.5921786	.5531498	.6562701	.6785545	.1867609	.6624158
#1	26.86531	50.41406	26.52377	5.105650	.4772715	24.75489
#2	26.64126	50.02122	26.27873	5.056889	.4785337	24.52407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 12/17/2012 11:24:22 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .5548722	.5288382	.4798678	.4915241	.5073236	.5419561
Stddev	.0003272	.0014534	.0001864	.0006953	.0020925	.0011027
%RSD	.0589696	.2748201	.0388377	.1414624	.4124585	.2034643
#1	.5551035	.5298658	.4799996	.4910325	.5088032	.5427358
#2	.5546408	.5278105	.4797360	.4920158	.5058439	.5411763
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	10.00000%					

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.5110799	.5044217	.5434625	5.296557	F .5764073
Stddev	.0018367	.0007831	.0002444	.010696	.0005406
%RSD	.3593687	.1552459	.0449767	.2019421	.0937919
#1	.5123786	.5049755	.5436353	5.304120	.5767895
#2	.5097812	.5038680	.5432897	5.288994	.5760250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.5000000
Range					10.00000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2547.907	2370.387	11742.27	5169.566
Stddev	2.756	.629	12.73	16.049
%RSD	.1081650	.0265371	.1084449	.3104481
#1	2549.856	2370.831	11733.27	5158.218
#2	2545.959	2369.942	11751.28	5180.914

Sample Name: CCB Acquired: 12/17/2012 11:28:14 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000114	-.010976	.0001587	-.000566	.0031328	-.000166	.0049255
Stddev	.000135	.009978	.0002080	.000167	.0000202	.000074	.0006404
%RSD	118.9060	90.90437	131.0739	29.45683	.6444684	44.18187	13.00104
#1	-.000018	-.018031	.0003057	-.000448	.0031185	-.000218	.0044727
#2	-.000209	-.003921	.0000116	-.000684	.0031471	-.000114	.0053783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084364	-.000214	.0005819	-.000216	-.000851	.0136339	.0306056
Stddev	.0033454	.000066	.0002986	.000262	.000039	.0682888	.0133216
%RSD	39.65402	30.92664	51.31437	121.6529	4.550457	500.8747	43.52674
#1	.0108020	-.000261	.0003707	-.000401	-.000878	-.034654	.0400254
#2	.0060709	-.000167	.0007930	-.000030	-.000824	.061921	.0211858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071475	.0009594	.0005503	.0249046	.0015825	.0004494	-.000674
Stddev	.0058482	.0000346	.0001103	.0007825	.0000587	.0013445	.000887
%RSD	81.82112	3.610369	20.04551	3.141946	3.708578	299.1623	131.5469
#1	.0030122	.0009349	.0004723	.0243513	.0015410	.0014001	-.000047
#2	.0112828	.0009839	.0006283	.0254579	.0016240	-.000501	-.001302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/17/2012 11:28:14 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001567	.0076132	.0008354	.0000146	.0001762	.0017503	.0004622
Stddev	.001252	.0003688	.0010734	.0000168	.0001147	.0001937	.0003804
%RSD	79.89323	4.844411	128.4838	115.1807	65.11084	11.06774	82.29459
#1	-.000682	.0078740	.0000764	.0000265	.0000951	.0018872	.0007311
#2	-.002453	.0073524	.0015944	.0000027	.0002573	.0016133	.0001932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0009980
Stddev	.0001903
%RSD	19.06455
#1	.0008635
#2	.0011325
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.154	2433.718	12182.66	5215.199
Stddev	3.182	8.396	46.09	13.600
%RSD	.1139605	.3449861	.3783267	.2607797
#1	2794.404	2439.655	12215.25	5205.582
#2	2789.904	2427.781	12150.07	5224.816

Sample Name: 53234-J-2-A @5 Acquired: 12/17/2012 11:36:07 Type: Unk
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000440	.5827374	.0029068	.7282714	.0087534	-.000185	.0090785
Stddev	.000119	.0023637	.0025426	.0071763	.0002029	.000022	.0006925
%RSD	27.06544	.4056206	87.47298	.9853825	2.318421	11.80647	7.628254
#1	-.000356	.5844088	.0047047	.7333458	.0088969	-.000169	.0085888
#2	-.000524	.5810660	.0011089	.7231970	.0086099	-.000200	.0095681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.134241	-.000067	.0006356	.0016012	.0051492	.7118068	14.19554
Stddev	.035605	.000149	.0002146	.0002851	.0002926	.0243851	.03908
%RSD	.6934834	222.9907	33.76101	17.80315	5.683054	3.425799	.2753142
#1	5.109064	-.000173	.0007873	.0018028	.0049423	.7290496	14.16790
#2	5.159417	.000039	.0004839	.0013997	.0053561	.6945639	14.22317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230704	.0118850	.1881709	28.03934	.0036274	-.004909	-.000482
Stddev	.001571	.0001330	.0027153	.08405	.0001187	.000742	.001337
%RSD	.1276510	1.118872	1.443020	.2997553	3.271014	15.12064	277.5689
#1	1.229594	.0117910	.1900909	27.97991	.0037113	-.005434	-.001427
#2	1.231815	.0119791	.1862508	28.09877	.0035435	-.004384	.000464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 53234-J-2-A @5 Acquired: 12/17/2012 11:36:07 Type: Unk
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055492	2.143937	.0003796	.0985186	.0119674	.0007401	.0015633
Stddev	.0001418	.020333	.0011274	.0009057	.0004159	.0007096	.0004426
%RSD	2.555589	.9484172	296.9738	.9193065	3.475230	95.88614	28.31339
#1	.0054490	2.158315	.0011768	.0991590	.0122615	.0002383	.0018762
#2	.0056495	2.129559	-.000418	.0978781	.0116733	.0012419	.0012503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0097641
Stddev	.0001514
%RSD	1.550198
#1	.0098712
#2	.0096571
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.384	2390.847	11799.44	5184.039
Stddev	11.458	5.439	85.27	42.429
%RSD	.4273185	.2274887	.7226803	.8184595
#1	2673.282	2387.001	11739.15	5214.041
#2	2689.487	2394.693	11859.74	5154.037

Sample Name: CCV Acquired: 12/17/2012 11:52:11 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4941886	53.28673	.5256657	.4934824	.4992900	.4887169	.5227719
Stddev	.0006097	.24555	.0002511	.0000219	.0014143	.0028635	.0013494
%RSD	.1233680	.4608143	.0477711	.0044339	.2832684	.5859241	.2581247
#1	.4937575	53.11310	.5258433	.4934978	.4982899	.4866921	.5237261
#2	.4946197	53.46036	.5254882	.4934669	.5002901	.4907418	.5218177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.37616	.4868407	.5023407	.5015570	.4920523	24.48661	49.65444
Stddev	.03353	.0007671	.0010426	.0036191	.0029779	.00870	.23051
%RSD	.1375573	.1575732	.2075449	.7215731	.6052077	.0355153	.4642285
#1	24.35245	.4873832	.5016035	.4989979	.4941580	24.49276	49.49144
#2	24.39987	.4862983	.5030780	.5041161	.4899466	24.48046	49.81743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.04589	4.723184	.4794736	24.76653	.5269142	.5076352	.4985296
Stddev	.00472	.011808	.0002499	.11063	.0019255	.0002336	.0014779
%RSD	.0196225	.2500048	.0521207	.4466816	.3654217	.0460076	.2964561
#1	24.04923	4.714834	.4792969	24.68831	.5282757	.5074700	.4995746
#2	24.04255	4.731533	.4796503	24.84476	.5255527	.5078003	.4974845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/17/2012 11:52:11 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5102635	.5047546	.5138827	.5068991	.4900194	.5317414	5.046487
Stddev	.0022158	.0002260	.0025664	.0004251	.0001728	.0008374	.010658
%RSD	.4342441	.0447758	.4994131	.0838693	.0352697	.1574875	.2112026
#1	.5118303	.5049144	.5120680	.5071997	.4898972	.5311493	5.038951
#2	.5086967	.5045948	.5156974	.5065985	.4901416	.5323336	5.054024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5148998
Stddev	.0011388
%RSD	.2211762
#1	.5140946
#2	.5157051
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2591.121	2325.682	12248.54	5899.873
Stddev	.134	3.884	10.21	10.352
%RSD	.0051632	.1669980	.0833862	.1754658
#1	2591.216	2322.936	12241.31	5907.193
#2	2591.026	2328.429	12255.76	5892.552

Sample Name: CCB Acquired: 12/17/2012 11:56:02 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000289	-.011341	-.001191	-.000910	-.000288	-.000035	.0087123
Stddev	.000600	.000913	.000343	.000385	.000004	.000086	.0008580
%RSD	207.7943	8.049872	28.77376	42.25281	1.409809	249.1496	9.848677
#1	.000135	-.010695	-.000949	-.000638	-.000291	.000026	.0081056
#2	-.000713	-.011986	-.001434	-.001182	-.000285	-.000096	.0093191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006824	-.000275	.0004601	.0004197	-.000461	.0060737	.0026730
Stddev	.003100	.000050	.0001713	.0003782	.000253	.0291597	.0085234
%RSD	45.42534	18.07282	37.22070	90.11652	54.82812	480.1003	318.8738
#1	-.009015	-.000240	.0003390	.0006872	-.000640	-.014545	.0086999
#2	-.004632	-.000310	.0005812	.0001523	-.000282	.026693	-.003354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039480	.0001202	.0009298	.0355649	.0018264	.0011072	-.002607
Stddev	.0080882	.0003648	.0002794	.0039447	.0001263	.0006545	.000828
%RSD	204.8667	303.3938	30.04551	11.09162	6.917762	59.11139	31.75702
#1	.0096673	.0003782	.0011274	.0383543	.0017370	.0006444	-.003192
#2	-.001771	-.000138	.0007323	.0327756	.0019157	.0015700	-.002021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/17/2012 11:56:02 Type: QC
Method: P6121712A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000273	-.004914	-.000459	.0000078	.0001266	.0018668	.0004746
Stddev	.0002568	.001228	.000333	.0000076	.0000746	.0002046	.0002544
%RSD	940.2477	24.98556	72.51192	97.43518	58.93924	10.95941	53.60142
#1	-.000154	-.004045	-.000694	.0000133	.0001793	.0020115	.0002947
#2	.000209	-.005782	-.000224	.0000024	.0000738	.0017221	.0006545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0000824
Stddev	.0001966
%RSD	238.7447
#1	-.000057
#2	.000221
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2875.934	2397.647	12766.02	5875.887
Stddev	7.963	4.028	37.21	26.878
%RSD	.2768780	.1679885	.2915012	.4574234
#1	2881.565	2400.495	12792.33	5894.892
#2	2870.304	2394.799	12739.71	5856.881

Metals Worksheet

Batch Number: 500-173161
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 17 2012 8:53AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-173161/7		7470A		25 mL	0.00005 mL	
ICB~500-173161/8		7470A				
CRA~500-173161/9		7470A		25 mL		0.000005 mL
MB~500-172995/7-A		7470A				
LCS~500-172995/8-A						
500-53218-A-2-D		245.1	T			
500-53223-A-2-A		245.1	T			
500-53225-B-1-A		245.1	T			
500-53225-B-2-A		245.1	T			
500-53225-B-3-A		245.1	T			
500-53234-J-1-B			T			
500-53234-J-1-C~DU			T			
CCV~500-173161/19				25 mL	0.000025 mL	
CCB~500-173161/20						
CCV~500-173161/21		7470A		25 mL	0.000025 mL	
CCB~500-173161/22		7470A				
500-53234-J-1-D~MS			T			
500-53234-J-1-E~MSD			T			
500-53234-J-2-B		7470A	T			

Metals Worksheet

Batch Number: 500-173161
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 17 2012 8:53AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
500-53234-J-3-B		7470A	T			
500-53234-J-4-B		7470A	T			
MB~500-172996/7-A		7470A				
LCS~500-172996/8-A		7470A				
LB~500-172910/1-B		7470A				
500-53172-A-1-E		7470A	P			
500-53185-A-1-C		7470A	P			
CCV~500-173161/33		7470A		25 mL	0.000025 mL	
CCB~500-173161/34		7470A				
500-53188-A-2-C			P			
500-53188-A-2-D~DU			P			
500-53188-A-2-E~MS		7470A	P			
500-53188-A-2-E~MS			P			
500-53188-A-3-C		7470A	P			
500-53188-A-4-C		7470A	P			
500-53188-A-5-C		7470A	P			
500-53188-A-6-C		7470A	P			
500-53188-A-7-C		7470A	P			
500-53188-A-8-C		7470A	P			
500-53188-A-9-C		7470A	P			
CCV~500-173161/46		7470A		25 mL	0.000025 mL	
CCB~500-173161/47		7470A				
LB~500-172908/1-C		7470A				
500-49676-A-1-F		7470A	E			
500-49676-A-3-F		7470A	E			

Metals Worksheet

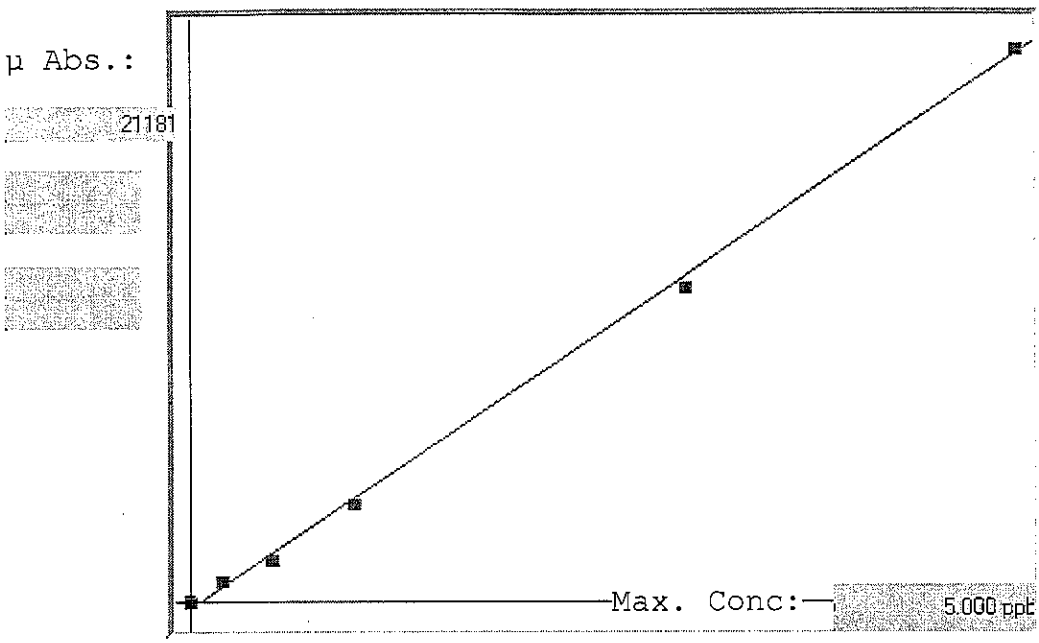
Batch Number: 500-173161
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 17 2012 8:53AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
500-49762-A-5-F		7470A	E			
LCS~500-172995/8-A		245.1				
LB2~500-173033/1-B		7470A				
680-85209-A-1-I		7470A	P			
CCV~500-173161/55		7470A		25 mL	0.000025 mL	
CCB~500-173161/56		7470A				

Hg

Linear



A= 0.0000e+000

B= 2.3581e-004

C= 6.8596e-002

Rho= 0.9993648

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.064	0.064	-19	0.000	-19				
0.2ppb	0.200	0.260	0.060	811	0.0 %	811				
0.5ppb	0.500	0.454	-0.046	1634	0.0 %	1634				
1.0ppb	1.000	0.953	-0.047	3752	0.0 %	3752				
3.0ppb	3.000	2.906	-0.094	12031	0.0 %	12031				
5.0ppb	5.000	5.063	0.063	21181	0.0 %	21181				

173161/172995
172996

Brandon Bills 12-17-12

121712RA

Method: Hg Operator: Admin Date of Analysis: 17 Dec 2012 08:53:30

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	-19	ppb	17 Dec 2012 08:53:31	44.0000	450
S	0.2ppb - 1	-	811	ppb	17 Dec 2012 08:55:22	44.0000	451
S	0.5ppb - 1	-	1634	ppb	17 Dec 2012 08:57:14	44.0000	452
S	1.0ppb - 1	-	3752	ppb	17 Dec 2012 08:59:08	44.0000	453
S	3.0ppb - 1	-	12031	ppb	17 Dec 2012 09:01:18	44.0000	454
S	5.0ppb - 1	-	21181	ppb	17 Dec 2012 09:03:36	44.0000	455
U	ICV - 1	1.9112	7814	ppb	17 Dec 2012 09:06:32	44.0000	456
U	ICB - 1	-0.0418	-468	ppb	17 Dec 2012 09:08:54	44.0000	457
U	CRA - 1	0.1898	514	ppb	17 Dec 2012 09:11:22	44.0000	458
U	mb 500-172995/7-a - 1 BB 12-17-12	-0.0604	-547	ppb	17 Dec 2012 09:13:13	44.0000	459
~~U~~	~~lcs 500-172995/8-a - 1~~	~~1.4749~~	~~5964~~	~~ppb~~	~~17 Dec 2012 09:15:13~~	~~44.0000~~	~~460~~
U	500-53218-a-2-d - 1	-0.0370	-448	ppb	17 Dec 2012 09:17:04	44.0000	461
U	500-53223-a-2-a - 1	0.0566	-51	ppb	17 Dec 2012 09:19:44	44.0000	462
U	500-53225-b-1-a - 1	0.0691	2	ppb	17 Dec 2012 09:21:35	44.0000	463
U	500-53225-b-2-a - 1	0.0575	-47	ppb	17 Dec 2012 09:23:26	44.0000	464
U	500-53225-b - 1	0.0641	-19	ppb	17 Dec 2012 09:25:17	44.0000	465
U	500-53234-j-1-b - 1	0.1832	486	ppb	17 Dec 2012 09:27:08	44.0000	466
U	500-53234-j-1-c du - 1	0.0677	-4	ppb	17 Dec 2012 09:29:00	44.0000	467
~~U~~	~~CCV - 1~~ BB 12-17-12	~~0.6442~~	~~2441~~	~~ppb~~	~~17 Dec 2012 09:31:01~~	~~44.0000~~	~~468~~
~~U~~	~~CCB - 1~~	~~0.0686~~	~~0~~	~~ppb~~	~~17 Dec 2012 09:33:01~~	~~44.0000~~	~~469~~
U	CCV - 1	0.9102	3569	ppb	17 Dec 2012 09:36:11	44.0000	470
U	CCB - 1	-0.0420	-469	ppb	17 Dec 2012 09:38:01	44.0000	471
U	500-53234-j-1-d ms - 1	1.0962	4358	ppb	17 Dec 2012 09:40:21	44.0000	472
U	500-53234-j-1-e msd - 1	0.9864	3892	ppb	17 Dec 2012 09:42:12	44.0000	473
U	500-53234-j-2-b - 1	0.2056	581	ppb	17 Dec 2012 09:44:38	44.0000	474
U	500-53234-j-3-b - 1	-0.0335	-433	ppb	17 Dec 2012 09:47:04	44.0000	475
U	500-53234-j-4-b - 1	0.0910	95	ppb	17 Dec 2012 09:49:09	44.0000	476
U	mb 500-172996/7-a - 1	0.0386	-127	ppb	17 Dec 2012 09:51:00	44.0000	477
U	lcs 500-172996/8-a - 1	1.6935	6891	ppb	17 Dec 2012 09:52:52	44.0000	478
U	lb 500-172910/1-b - 1	-0.0286	-412	ppb	17 Dec 2012 09:54:43	44.0000	479
U	500-53172-a-1-e - 1	0.0639	-20	ppb	17 Dec 2012 09:57:13	44.0000	480
U	500-53185-a-1-c - 1	0.0705	8	ppb	17 Dec 2012 09:59:05	44.0000	481
U	CCV - 1	0.8585	3350	ppb	17 Dec 2012 10:00:57	44.0000	482
U	CCB - 1	-0.0326	-429	ppb	17 Dec 2012 10:02:48	44.0000	483
U	500-53188-a-2-c - 1	0.0646	-17	ppb	17 Dec 2012 10:05:07	44.0000	484
U	500-53188-a-2-d du - 1 BB 12-17-12	0.0686	0	ppb	17 Dec 2012 10:06:58	44.0000	485
~~U~~	~~500-53188-a-2-e ms - 1~~	~~0.0686~~	~~0~~	~~ppb~~	~~17 Dec 2012 10:07:36~~	~~44.0000~~	~~486~~
U	500-53188-a-2-e ms - 1	0.8062	3128	ppb	17 Dec 2012 10:10:16	44.0000	487
U	500-53188-a-3-c - 1	-0.0434	-475	ppb	17 Dec 2012 10:12:06	44.0000	488
U	500-53188-a-4-c - 1	0.0632	-23	ppb	17 Dec 2012 10:14:36	44.0000	489
U	500-53188-a-5-c - 1	0.0677	-4	ppb	17 Dec 2012 10:16:27	44.0000	490
U	500-53188-a-6-c - 1	0.0665	-9	ppb	17 Dec 2012 10:18:18	44.0000	491
U	500-53188-a-7-c - 1	0.0684	-1	ppb	17 Dec 2012 10:20:09	44.0000	492
U	500-53188-a-8-c - 1	0.0662	-10	ppb	17 Dec 2012 10:22:00	44.0000	493
U	500-53188-a-9-c - 1	0.0677	-4	ppb	17 Dec 2012 10:23:52	44.0000	494
U	CCV - 1	0.8010	3106	ppb	17 Dec 2012 10:25:44	44.0000	495
U	CCB - 1	-0.0434	-475	ppb	17 Dec 2012 10:27:35	44.0000	496
U	lb 500-172908/1-c - 1	0.0712	11	ppb	17 Dec 2012 10:32:31	44.0000	497
U	500-49676-a-1-f - 1	0.7414	2853	ppb	17 Dec 2012 10:34:22	44.0000	498
U	500-49676-a-3-f - 1	0.0662	-10	ppb	17 Dec 2012 10:36:13	44.0000	499
U	500-49762-a-5-f - 1	-0.0050	-312	ppb	17 Dec 2012 10:38:34	44.0000	500
U	lcs 500-172995/8-a - 1	1.7582	7165	ppb	17 Dec 2012 10:40:27	44.0000	501
U	lb2 500-173033/1-b - 1	-0.0314	-424	ppb	17 Dec 2012 10:42:18	44.0000	502
U	680-85209-a-1-i - 1	0.0672	-6	ppb	17 Dec 2012 10:44:50	44.0000	503
U	CCV - 1	0.9479	3729	ppb	17 Dec 2012 10:46:41	44.0000	504
U	CCB - 1	-0.0297	-417	ppb	17 Dec 2012 10:48:32	44.0000	505

Brandon Bills 12-17-12

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 172932 Batch Start Date: 12/13/12 15:00 Batch Analyst: Laird, Rebecca

Batch Method: 3010A Batch End Date: 12/13/12 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M12JSPKIC 00002			
MB 500-172932/1		3010A, 6010B		50 mL	50 mL				
LCS 500-172932/2		3010A, 6010B		50 mL	50 mL	0.5 mL			
500-53234-J-1	VLF-MW-3	3010A, 6010B	T	50 mL	50 mL				
500-53234-J-2	VLF-MW-4	3010A, 6010B	T	50 mL	50 mL				
500-53234-J-3	OLD-MW-4	3010A, 6010B	T	50 mL	50 mL				
500-53234-J-4	OLD-MW-9	3010A, 6010B	T	50 mL	50 mL				

Batch Notes	
First End time	1530
Lot # of hydrochloric acid	0000007153
Lot # of Nitric Acid	L08022
Hot Block ID number	4
Pipette ID	1627
First Start time	1500
ID number of the thermometer	J59688
Digestion Tube/Cup Lot #	20313760
Uncorrected Temperature	90 Celsius
Uncorrected Temperature 2	90 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 172995 Batch Start Date: 12/14/12 11:00 Batch Analyst: Bills, Brandon J

Batch Method: 7470A Batch End Date: 12/14/12 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M11FSTKHG 00001	M12ASTKHG 00001		
MB 500-172995/7		7470A, 7470A		25 mL	25 mL				
LCS 500-172995/8		7470A, 7470A		25 mL	25 mL	0.00005 mL			
500-53234-J-1	VLF-MW-3	7470A, 7470A	T	25 mL	25 mL				
500-53234-J-1 DU	VLF-MW-3	7470A, 7470A	T	25 mL	25 mL				
500-53234-J-1 MS	VLF-MW-3	7470A, 7470A	T	25 mL	25 mL		0.000025 mL		
500-53234-J-1 MSD	VLF-MW-3	7470A, 7470A	T	25 mL	25 mL		0.000025 mL		
500-53234-J-2	VLF-MW-4	7470A, 7470A	T	25 mL	25 mL				
500-53234-J-3	OLD-MW-4	7470A, 7470A	T	25 mL	25 mL				
500-53234-J-4	OLD-MW-9	7470A, 7470A	T	25 mL	25 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 172995 Batch Start Date: 12/14/12 11:00 Batch Analyst: Bills, Brandon J

Batch Method: 7470A Batch End Date: 12/14/12 13:00

Batch Notes	
Hydroxylamine Hydrochloride Lot	19333
Batch Comment	STOCK ID: m10cstkhg_00001, m12astkhg_00001 (Curve)
Sulfuric Acid Lot Number	k20042
Lot # of hydrochloric acid	0000007153
Lot # of Nitric Acid	L03021
Hood ID or number	c0454
Hot Block ID number	6
Potassium Persulfate Lot Number	k43467
Potassium Permanganate Lot Number	k35621
NaCL Lot #	UF30BZEMS
Oven, Bath or Block Temperature 1	88
Oven, Bath or Block Temperature 2	88
Pipette ID	2240
Repittetor Volume Check	OK
Stannous Chloride Lot Number	k21597
Temperature	88 Celsius
ID number of the thermometer	hb305412
Digestion Tube/Cup Lot #	1207143
Uncorrected Temperature	90 Celsius
Visual ck - digestate F.V. consistency	OK

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG No.:

Project: Vulcan Louisville Fansteel

Client Sample ID	Lab Sample ID
VLF-MW-3	500-53234-1
VLF-MW-4	500-53234-2
OLD-MW-4	500-53234-3
OLD-MW-9	500-53234-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-3
Lab Sample ID: 500-53234-1
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 10:00
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	900	40	9.2	mg/L		B	200	300.0
14797-55-8	Nitrate as N	0.028	0.20	0.028	mg/L	U		1	300.0
14797-65-0	Nitrite as N	0.28	2.0	0.28	mg/L	U		10	300.0
14808-79-8	Sulfate	510	20	7.8	mg/L			100	300.0
	Alkalinity	60	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	28	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	31	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	30	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-4
Lab Sample ID: 500-53234-2
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 12:28
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	130	5.0	1.2	mg/L		B	25	300.0
14797-55-8	Nitrate as N	0.029	0.20	0.028	mg/L	J		1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U		1	300.0
14808-79-8	Sulfate	120	5.0	2.0	mg/L			25	300.0
	Alkalinity	120	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	35	2.0	0.76	mg/L			2	SM 5310C
	TOC Result 2	36	2.0	0.76	mg/L			2	SM 5310C
7440-44-0	TOC Dup	35	2.0	0.76	mg/L			2	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OLD-MW-4
Lab Sample ID: 500-53234-3
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 11:44
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	150	10	2.3	mg/L		B	50	300.0
14797-55-8	Nitrate as N	0.028	0.20	0.028	mg/L	U		1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U		1	300.0
14808-79-8	Sulfate	230	10	3.9	mg/L			50	300.0
	Alkalinity	290	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	3.9	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	3.7	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	3.8	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OLD-MW-9
Lab Sample ID: 500-53234-4
Lab Name: TestAmerica Chicago
Job No.: 500-53234-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2012 14:29
Reporting Basis: WET
Date Received: 12/13/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	79	4.0	0.92	mg/L		B	20	300.0
14797-55-8	Nitrate as N	0.033	0.20	0.028	mg/L	J		1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U		1	300.0
14808-79-8	Sulfate	120	4.0	1.6	mg/L			20	300.0
	Alkalinity	650	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	2.3	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	1.8	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	2.1	1.0	0.38	mg/L			1	SM 5310C

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Analyst: CLM Batch Start Date: 12/13/2012

Reporting Units: mg/L Analytical Batch No.: 173019

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:37	Nitrate as N	2.01	2.00	101	90-110		WSTICNO32_00008
			Nitrite as N	1.90	2.00	95	90-110		WSTICNO2II_00002
2	ICB	09:50	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
28	CCV	12:17	Nitrate as N	0.999	1.00	100	90-110		WSTICN031_00005
			Nitrite as N	0.945	1.00	95	90-110		WSTICNI1_00004
29	CCB	12:30	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
40	CCV	14:56	Nitrate as N	0.977	1.00	98	90-110		WSTICN031_00005
			Nitrite as N	0.945	1.00	94	90-110		WSTICNI1_00004
41	CCB	15:10	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
52	CCV	17:36	Nitrate as N	0.987	1.00	99	90-110		WSTICN031_00005
			Nitrite as N	0.951	1.00	95	90-110		WSTICNI1_00004
53	CCB	17:49	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
64	CCV	20:16	Nitrate as N	0.980	1.00	98	90-110		WSTICN031_00005
			Nitrite as N	1.02	1.00	102	90-110		WSTICNI1_00004
65	CCB	20:29	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
76	CCV	22:55	Nitrate as N	0.987	1.00	99	90-110		WSTICN031_00005
			Nitrite as N	0.953	1.00	95	90-110		WSTICNI1_00004
77	CCB	23:09	Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	

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.: 500-53234-1

SDG No.:

Analyst: CLM Batch Start Date: 12/14/2012

Reporting Units: mg/L Analytical Batch No.: 173084

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:24	Chloride	2.82	3.00	94	90-110		WSTICCL2_00007
			Sulfate	5.13	5.00	103	90-110		WSTICS2_00005
2	ICB	09:39	Chloride	0.046				U	
			Sulfate	0.078				U	
13	CCV	12:28	Chloride	1.02	1.00	102	90-110		WSTICCL1_00007
			Sulfate	2.35	2.50	94	90-110		WSTICS1_00006
14	CCB	12:44	Chloride	0.046				U	
			Sulfate	0.078				U	

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.: 500-53234-1

SDG No.:

Analyst: KD Batch Start Date: 12/18/2012

Reporting Units: mg/L Analytical Batch No.: 173377

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:52	TOC Result 1	19.0	20.0	95	85-115		WCSTTC2_00072
			TOC Result 2	19.0	20.0	95	85-115		WCSTTC2_00072
			TOC Dup	19.0	20.0	95	85-115		WCSTTC2_00072
2	ICB	16:01	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	
13	CCV	18:58	TOC Result 1	9.62	10.0	96	85-115		WCSTTC1_00058
			TOC Result 2	9.62	10.0	96	85-115		WCSTTC1_00058
			TOC Dup	9.62	10.0	96	85-115		WCSTTC1_00058
14	CCB	19:08	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	

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.: 500-53234-1

SDG No.:

Analyst: KD Batch Start Date: 12/19/2012

Reporting Units: mg/L Analytical Batch No.: 173493

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	08:42	TOC Result 1	19.2	20.0	96	85-115		WCSTTC2_00072
			TOC Result 2	19.2	20.0	96	85-115		WCSTTC2_00072
			TOC Dup	19.2	20.0	96	85-115		WCSTTC2_00072
2	ICB	08:52	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	
13	CCV	13:58	TOC Result 1	9.38	10.0	94	85-115		WCSTTC1_00058
			TOC Result 2	9.38	10.0	94	85-115		WCSTTC1_00058
			TOC Dup	9.38	10.0	94	85-115		WCSTTC1_00058
14	CCB	14:08	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	

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.: 500-53234-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 173019	Date: 12/13/2012 13:36						
300.0	MB 500-173019/34	Nitrate as N	0.028	U	mg/L	0.20	1
300.0	MB 500-173019/34	Nitrite as N	0.028	U	mg/L	0.20	1
Batch ID: 173084	Date: 12/14/2012 09:55						
300.0	MB 500-173084/3	Chloride	0.143	J	mg/L	0.20	1
300.0	MB 500-173084/3	Sulfate	0.078	U	mg/L	0.20	1
Batch ID: 173256	Date: 12/17/2012 22:24						
SM 2320B	MB 500-173256/28	Alkalinity	1.2	U	mg/L	5.0	1
Batch ID: 173377	Date: 12/18/2012 16:11						
SM 5310C	MB 500-173377/3	TOC Result 1	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173377/3	TOC Result 2	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173377/3	TOC Dup	0.38	U	mg/L	1.0	1
Batch ID: 173493	Date: 12/19/2012 09:02						
SM 5310C	MB 500-173493/3	TOC Result 1	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173493/3	TOC Result 2	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173493/3	TOC Dup	0.38	U	mg/L	1.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 173019	Date: 12/13/2012 16:03										
						LCS Source:	WSTICNO2II_00002				
300.0	LCS 500-173019/45	Nitrite as N	1.85		mg/L	2.00	92	90-110			
						LCS Source:	WSTICNO32_00008				
300.0	LCS 500-173019/45	Nitrate as N	1.96		mg/L	2.00	98	90-110			
Batch ID: 173084	Date: 12/14/2012 10:10										
						LCS Source:	WSTICCL2_00007				
300.0	LCS 500-173084/4	Chloride	2.94		mg/L	3.00	98	90-110			
						LCS Source:	WSTICS2_00005				
300.0	LCS 500-173084/4	Sulfate	5.29		mg/L	5.00	106	90-110			
Batch ID: 173256	Date: 12/17/2012 22:30										
						LCS Source:	WCSTAK_00006				
SM 2320B	LCS 500-173256/29	Alkalinity	104		mg/L	100	104	80-120			
Batch ID: 173377	Date: 12/18/2012 16:28										
						LCS Source:	WCSTTC2_00072				
SM 5310C	LCS 500-173377/4	TOC Result 1	9.28		mg/L	10.0	93	80-120			
SM 5310C	LCS 500-173377/4	TOC Result 2	9.22		mg/L	10.0	92	80-120			
SM 5310C	LCS 500-173377/4	TOC Dup	9.25		mg/L	10.0	93	80-120			
Batch ID: 173493	Date: 12/19/2012 09:25										
						LCS Source:	WCSTTC2_00072				
SM 5310C	LCS 500-173493/4	TOC Result 1	9.33		mg/L	10.0	93	80-120			
SM 5310C	LCS 500-173493/4	TOC Result 2	9.51		mg/L	10.0	95	80-120			
SM 5310C	LCS 500-173493/4	TOC Dup	9.42		mg/L	10.0	94	80-120			

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: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: IC4

Method: 300.0 MDL Date: 05/29/2012 14:59

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.2	0.046
Sulfate		0.2	0.078

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: IC4

Method: 300.0 XMDL Date: 05/29/2012 15:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.2	0.046
Sulfate		0.2	0.078

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 300.0 MDL Date: 05/29/2012 14:59

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.2	0.028
Nitrite as N		0.2	0.028

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 300.0 XMDL Date: 05/29/2012 15:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.2	0.028
Nitrite as N		0.2	0.028

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: PC-Titrate

Method: SM 2320B MDL Date: 05/29/2012 14:13

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: PC-Titrate

Method: SM 2320B XMDL Date: 05/29/2012 14:13

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: SM 5310C MDL Date: 05/29/2012 16:12

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: SM 5310C XMDL Date: 05/29/2012 16:13

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: TOC5

Method: SM 5310C MDL Date: 05/29/2012 16:12

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53234-1

SDG Number:

Matrix: Water Instrument ID: TOC5

Method: SM 5310C XMDL Date: 05/29/2012 16:13

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: IC4 Method: 300.0

Start Date: 12/14/2012 09:24 End Date: 12/15/2012 02:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	SO4																		
ICV 500-173084/1	1		09:24	X	X																		
ICB 500-173084/2	1		09:39	X	X																		
MB 500-173084/3	1	T	09:55	X	X																		
LCS 500-173084/4	1	T	10:10	X	X																		
500-53234-2	25	T	10:25	X	X																		
500-53234-1	100	T	10:41		X																		
500-53234-1	200	T	10:56	X																			
500-53234-3	50	T	11:12	X	X																		
500-53234-4	20	T	11:27	X	X																		
ZZZZZZ			11:42																				
ZZZZZZ			11:58																				
ZZZZZZ			12:13																				
CCV 500-173084/13	1		12:28	X	X																		
CCB 500-173084/14	1		12:44	X	X																		
ZZZZZZ			12:59																				
ZZZZZZ			13:14																				
ZZZZZZ			13:30																				
ZZZZZZ			17:17																				
ZZZZZZ			17:32																				
ZZZZZZ			17:48																				
ZZZZZZ			18:03																				
ZZZZZZ			18:18																				
ZZZZZZ			18:34																				
ZZZZZZ			18:49																				
CCV 500-173084/25			19:04																				
CCB 500-173084/26			19:20																				
ZZZZZZ			19:35																				
ZZZZZZ			19:50																				
ZZZZZZ			20:06																				
ZZZZZZ			20:21																				
ZZZZZZ			20:37																				
ZZZZZZ			20:52																				
ZZZZZZ			21:07																				
ZZZZZZ			21:23																				
ZZZZZZ			21:38																				
ZZZZZZ			21:53																				
CCV 500-173084/37			22:09																				
CCB 500-173084/38			22:24																				
ZZZZZZ			22:39																				
ZZZZZZ			22:55																				
ZZZZZZ			23:10																				
ZZZZZZ			23:25																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: IC4 Method: 300.0

Start Date: 12/14/2012 09:24 End Date: 12/15/2012 02:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	SO4																		
ZZZZZZ			23:41																				
ZZZZZZ			23:56																				
ZZZZZZ			00:12																				
CCV 500-173084/46			00:27																				
CCB 500-173084/47			00:42																				
ZZZZZZ			00:58																				
ZZZZZZ			01:13																				
ZZZZZZ			01:28																				
ZZZZZZ			01:44																				
CCV 500-173084/52			01:59																				
CCB 500-173084/53			02:14																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NO3																		
ICV 500-173019/1	1		09:37	X	X																		
ICB 500-173019/2	1		09:50	X	X																		
ZZZZZZ			10:04																				
ZZZZZZ			10:17																				
ZZZZZZ			10:30																				
ZZZZZZ			10:44																				
ZZZZZZ			10:57																				
ZZZZZZ			11:10																				
ZZZZZZ			11:23																				
ZZZZZZ			11:37																				
ZZZZZZ			11:50																				
ZZZZZZ			12:03																				
CCV 500-173019/28	1		12:17	X	X																		
CCB 500-173019/29	1		12:30	X	X																		
ZZZZZZ			12:43																				
ZZZZZZ			12:56																				
ZZZZZZ			13:10																				
ZZZZZZ			13:23																				
MB 500-173019/34	1	T	13:36	X	X																		
ZZZZZZ			13:50																				
ZZZZZZ			14:03																				
ZZZZZZ			14:16																				
ZZZZZZ			14:30																				
ZZZZZZ			14:43																				
CCV 500-173019/40	1		14:56	X	X																		
CCB 500-173019/41	1		15:10	X	X																		
ZZZZZZ			15:23																				
ZZZZZZ			15:36																				
ZZZZZZ			15:50																				
LCS 500-173019/45	1	T	16:03	X	X																		
ZZZZZZ			16:16																				
ZZZZZZ			16:29																				
ZZZZZZ			16:43																				
ZZZZZZ			16:56																				
ZZZZZZ			17:09																				
ZZZZZZ			17:23																				
CCV 500-173019/52	1		17:36	X	X																		
CCB 500-173019/53	1		17:49	X	X																		
ZZZZZZ			18:03																				
ZZZZZZ			18:16																				
ZZZZZZ			18:29																				
ZZZZZZ			18:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NO3																		
500-53234-1	1	T	18:56		X																		
500-53234-1	10	T	19:09	X																			
500-53234-3	1	T	19:22	X	X																		
ZZZZZZ			19:36																				
500-53234-2	1	T	19:49	X	X																		
ZZZZZZ			20:02																				
CCV 500-173019/64	1		20:16	X	X																		
CCB 500-173019/65	1		20:29	X	X																		
500-53234-4	1	T	20:42	X	X																		
ZZZZZZ			20:56																				
ZZZZZZ			21:09																				
ZZZZZZ			21:22																				
ZZZZZZ			21:35																				
ZZZZZZ			21:49																				
ZZZZZZ			22:02																				
ZZZZZZ			22:15																				
ZZZZZZ			22:29																				
ZZZZZZ			22:42																				
CCV 500-173019/76	1		22:55	X	X																		
CCB 500-173019/77	1		23:09	X	X																		
ZZZZZZ			23:22																				
ZZZZZZ			23:35																				
ZZZZZZ			23:48																				
ZZZZZZ			00:02																				
ZZZZZZ			00:15																				
ZZZZZZ			00:28																				
ZZZZZZ			00:42																				
ZZZZZZ			00:55																				
ZZZZZZ			01:08																				
ZZZZZZ			01:21																				
CCV 500-173019/88			01:35																				
CCB 500-173019/89			01:48																				
ZZZZZZ			02:01																				
ZZZZZZ			02:15																				
ZZZZZZ			02:28																				
ZZZZZZ			02:41																				
ZZZZZZ			02:55																				
ZZZZZZ			03:08																				
ZZZZZZ			03:21																				
ZZZZZZ			03:34																				
ZZZZZZ			03:48																				
ZZZZZZ			04:01																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NO3																		
CCV 500-173019/100			04:14																				
CCB 500-173019/101			04:28																				
ZZZZZZ			04:41																				
ZZZZZZ			04:54																				
ZZZZZZ			05:08																				
ZZZZZZ			05:21																				
ZZZZZZ			05:34																				
ZZZZZZ			05:47																				
ZZZZZZ			06:01																				
ZZZZZZ			06:14																				
ZZZZZZ			06:27																				
ZZZZZZ			06:41																				
CCV 500-173019/112			06:54																				
CCB 500-173019/113			07:07																				
ZZZZZZ			07:20																				
ZZZZZZ			07:34																				
ZZZZZZ			07:47																				
ZZZZZZ			08:00																				
ZZZZZZ			08:14																				
ZZZZZZ			08:27																				
ZZZZZZ			08:40																				
ZZZZZZ			08:54																				
ZZZZZZ			09:07																				
ZZZZZZ			09:20																				
CCV 500-173019/12			09:33																				
CCB 500-173019/13			09:47																				
ZZZZZZ			10:00																				
ZZZZZZ			10:13																				
ZZZZZZ			10:27																				
ZZZZZZ			10:40																				
ZZZZZZ			10:53																				
ZZZZZZ			11:06																				
ZZZZZZ			11:20																				
ZZZZZZ			11:33																				
ZZZZZZ			11:46																				
ZZZZZZ			12:00																				
ZZZZZZ			12:13																				
CCV 500-173019/25			12:26																				
CCB 500-173019/26			12:39																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: PC-Titrate Method: SM 2320B

Start Date: 12/17/2012 19:37 End Date: 12/18/2012 00:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:42																				
ZZZZZZ			19:47																				
ZZZZZZ			19:53																				
ZZZZZZ			19:59																				
ZZZZZZ			20:04																				
ZZZZZZ			20:12																				
ZZZZZZ			20:19																				
ZZZZZZ			20:25																				
ZZZZZZ			20:32																				
ZZZZZZ			20:38																				
ZZZZZZ			20:52																				
ZZZZZZ			21:00																				
ZZZZZZ			21:05																				
ZZZZZZ			21:11																				
ZZZZZZ			21:16																				
ZZZZZZ			21:21																				
ZZZZZZ			21:27																				
ZZZZZZ			21:32																				
ZZZZZZ			21:38																				
ZZZZZZ			21:43																				
ZZZZZZ			21:49																				
ZZZZZZ			22:02																				
ZZZZZZ			22:08																				
ZZZZZZ			22:14																				
ZZZZZZ			22:19																				
MB 500-173256/28	1	T	22:24	X																			
LCS 500-173256/29	1	T	22:30	X																			
ZZZZZZ			22:35																				
ZZZZZZ			22:42																				
ZZZZZZ			22:47																				
ZZZZZZ			22:52																				
ZZZZZZ			22:58																				
ZZZZZZ			23:12																				
ZZZZZZ			23:18																				
ZZZZZZ			23:23																				
ZZZZZZ			23:30																				
ZZZZZZ			23:36																				
ZZZZZZ			23:42																				
ZZZZZZ			23:48																				
ZZZZZZ			23:54																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: PC-Titrate Method: SM 2320B

Start Date: 12/17/2012 19:37 End Date: 12/18/2012 00:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			23:59																				
ZZZZZZ			00:06																				
ZZZZZZ			00:11																				
ZZZZZZ			00:25																				
ZZZZZZ			00:31																				
500-53234-1	1	T	00:37	X																			
500-53234-2	1	T	00:41	X																			
500-53234-3	1	T	00:47	X																			
500-53234-4	1	T	00:54	X																			
ZZZZZZ			00:58																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: TOC3 Method: SM 5310C

Start Date: 12/19/2012 08:42 End Date: 12/19/2012 16:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
ICV 500-173493/1	1		08:42	X	X	X																	
ICB 500-173493/2	1		08:52	X	X	X																	
MB 500-173493/3	1	T	09:02	X	X	X																	
LCS 500-173493/4	1	T	09:25	X	X	X																	
ZZZZZZ			09:54																				
ZZZZZZ			10:24																				
ZZZZZZ			10:56																				
500-53234-2	2	T	11:27	X	X	X																	
ZZZZZZ			12:00																				
ZZZZZZ			12:32																				
ZZZZZZ			13:00																				
ZZZZZZ			13:27																				
CCV 500-173493/13	1		13:58	X	X	X																	
CCB 500-173493/14	1		14:08	X	X	X																	
ZZZZZZ			14:24																				
ZZZZZZ			14:40																				
ZZZZZZ			14:56																				
ZZZZZZ			15:29																				
CCV 500-173493/19			15:58																				
CCB 500-173493/20			16:09																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Instrument ID: TOC5 Method: SM 5310C

Start Date: 12/18/2012 15:52 End Date: 12/18/2012 20:17

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
ICV 500-173377/1	1		15:52	X	X	X																	
ICB 500-173377/2	1		16:01	X	X	X																	
MB 500-173377/3	1	T	16:11	X	X	X																	
LCS 500-173377/4	1	T	16:28	X	X	X																	
ZZZZZZ			16:44																				
ZZZZZZ			17:00																				
ZZZZZZ			17:10																				
ZZZZZZ			17:20																				
ZZZZZZ			17:36																				
500-53234-1	1	T	17:52	X	X	X																	
500-53234-3	1	T	18:25	X	X	X																	
500-53234-4	1	T	18:41	X	X	X																	
CCV 500-173377/13	1		18:58	X	X	X																	
CCB 500-173377/14	1		19:08	X	X	X																	
ZZZZZZ			19:18																				
ZZZZZZ			19:34																				
CCV 500-173377/17			20:07																				
CCB 500-173377/18			20:17																				

Prep Types
T = Total/NA

TestAmerica Chicago CHI-22-12-084/T-09/12

Cover Page - Ion Chromatograph

LIMS Batch: 173019 **FILE ID:** ~~20121213~~ 12-13-12m .csv

Calibration Date: 12-10-12 CMM-14m

Instrument: (Circle)	
a. IC4: Dionex Series DX-120	DX120.met
(b.) IC5: Dionex Series ICS-1100	

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV1 / CCV2 Stock ID	LCS ICV MS Stock ID	LCS mg/L	(ICV-CCV1)/CCV2 mg/L	MS mg/L
Fluoride	WSTICF1- 5	WSTICF2- 7	1.0	1.0 / 0.6	1.0
Chloride	WSTICCL1- 7	WSTICCL2- 7	3.0	3.0 / 1.0	3.0
Nitrite-N	WSTICNI1- 4	WSTICNO2II- 2	2.0	2.0 / 1.0	2.0
Bromide	WSTICBR1- 5	WSTICBR2- 4	2.0	2.0 / 1.0	2.0
Nitrate-N	WSTICNO31- 5	WSTICNO32- 8	2.0	2.0 / 1.0	2.0
O-PO4	WSTICP1- 5	WSTICP2- 5	2.0	2.0 / 1.0	2.0
Sulfate	WSTICS1- 6	WSTICS2- 5	5.0	5.0 / 2.5	5.0

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 = **C**o-**E**lution or masking of peak(s) has been identified

OR = **O**ver **R**ange - Peak exceeds the highest standard of the calibration curve

OD = **O**ver **D**ilution - The ion is reported from a less dilute injection

NR = **N**ot **R**equired - analysis was not required for this ion

AD = **A**nalyst **D**iscretion was used in the evaluation and the reporting of the ion

RE = **R**eported **E**lsewhere

RT = **R**etention Time Shift

Analyst Signature: Colleen Moore Date: 12-14-12

Reviewer Signature: Diane Zeller Date: 12/14/12

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC5: ICS 1100	Method: Seven Anions
Batch:	173019	
Date:	12/13/2012	

Analyst:	Colleen Moore

Parameter	ICV RT Minutes	RT Window +/- 5 %	
Fluoride		0.00	0.00
Chloride	3.58	3.40	3.76
Nitrite	4.18	3.97	4.39
Bromide	5.28	5.02	5.55
Nitrate	5.88	5.58	6.17
Orthophosphate		0.00	0.00
Sulfate	9.00	8.55	9.45

Analyst Signature: Colleen Moore Date: 12-14-12

Sequence Overview

Sequence Details

Name:	**12-13-2012**	*Created On:*	**10/Apr/12 15:30:04**
Directory:	**Instrument Data\CHI-WC-IC5_1\December-**	*Created By:*	**moorec**
Data Vault:	**ChromeleonLocal**	*Updated On:*	**14/Dec/12 12:52:01**
No. of Injections:	**123**	*Updated By:*	**moorec**

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Status
1	ICV	RA1	Check Standard	04	13/Dec/12 09:37:34	Finished
2	ICB	RA2	Unknown		13/Dec/12 09:50:52	Finished
3	500-53164-A-1	GA1	Unknown		13/Dec/12 10:04:14	Finished
4	500-53164-A-1	GA2	Unknown		13/Dec/12 10:17:31	Finished
5	500-53164-A-2	GA3	Unknown		13/Dec/12 10:30:49	Finished
6	500-53164-A-2	GA4	Unknown		13/Dec/12 10:44:05	Finished
7	500-53190-A-11	GA5	Unknown		13/Dec/12 10:57:23	Finished
8	500-53190-A-11	GA6	Unknown		13/Dec/12 11:10:40	Finished
9	500-53164-A-3	GA7	Unknown		13/Dec/12 11:23:57	Finished
10	500-53164-A-3	GA8	Unknown		13/Dec/12 11:37:15	Finished
11	500-53190-A-1	GB1	Unknown		13/Dec/12 11:50:32	Finished
12	500-53190-A-1	GB2	Unknown		13/Dec/12 12:03:50	Finished
13	CCV	RA7	Check Standard	03	13/Dec/12 12:17:07	Finished
14	CCB	RA8	Unknown		13/Dec/12 12:30:25	Finished
15	500-53190-A-2	GB3	Unknown		13/Dec/12 12:43:42	Finished
16	500-53190-A-2	GB4	Unknown		13/Dec/12 12:56:59	Finished
17	500-53164-A-4	GB5	Unknown		13/Dec/12 13:10:17	Finished
18	500-53164-A-4	GB6	Unknown		13/Dec/12 13:23:35	Finished
19	MB	RA3	Unknown		13/Dec/12 13:36:53	Finished
20	500-53190-A-12	GC1	Unknown		13/Dec/12 13:50:11	Finished
21	500-53190-A-12	GC2	Unknown		13/Dec/12 14:03:28	Finished
22	500-53164-A-5	GC3	Unknown		13/Dec/12 14:16:45	Finished
23	500-53164-A-5	GC4	Unknown		13/Dec/12 14:30:03	Finished
24	500-53190-A-13	GC5	Unknown		13/Dec/12 14:43:25	Finished
25	CCV	RA5	Check Standard	03	13/Dec/12 14:56:45	Finished
26	CCB	RA6	Unknown		13/Dec/12 15:10:06	Finished
27	500-53190-A-13	GC6	Unknown		13/Dec/12 15:23:27	Finished
28	500-53190-A-3	GB7	Unknown		13/Dec/12 15:36:44	Finished
29	500-53190-A-3	GB8	Unknown		13/Dec/12 15:50:00	Finished
30	LCS	RA4	Check Standard	04	13/Dec/12 16:03:19	Finished
31	500-53190-A-5	GC7	Unknown		13/Dec/12 16:16:37	Finished
32	500-53190-A-5	GC8	Unknown		13/Dec/12 16:29:55	Finished
33	500-53190-A-14	GD1	Unknown		13/Dec/12 16:43:13	Finished
34	500-53190-A-14	GD2	Unknown		13/Dec/12 16:56:30	Finished
35	500-53190-A-8	GD3	Unknown		13/Dec/12 17:09:48	Finished
36	500-53190-A-8	GD4	Unknown		13/Dec/12 17:23:05	Finished
37	CCV	RA7	Check Standard	03	13/Dec/12 17:36:22	Finished
38	CCB	RA8	Unknown		13/Dec/12 17:49:44	Finished
39	500-53190-A-15	GD5	Unknown		13/Dec/12 18:03:05	Finished
40	500-53190-A-15	GD6	Unknown		13/Dec/12 18:16:21	Finished
41	500-53190-A-9	GD7	Unknown		13/Dec/12 18:29:43	Finished
42	500-53190-A-9	GD8	Unknown		13/Dec/12 18:43:02	Finished

173019 (continued)

43	500-53234-I-1	GE1	Unknown		13/Dec/12 18:56:20	Finished
44	500-53234-I-1	GE2	Unknown		13/Dec/12 19:09:37	Finished
45	500-53234-I-3	GE3	Unknown		13/Dec/12 19:22:55	Finished
46	500-53234-I-3	GE4	Unknown		13/Dec/12 19:36:11	Finished
47	500-53234-I-2	GE5	Unknown		13/Dec/12 19:49:29	Finished
48	500-53234-I-2	GE6	Unknown		13/Dec/12 20:02:46	Finished
49	CCV	RA5	Check Standard	03	13/Dec/12 20:16:09	Finished
50	CCB	RA6	Unknown		13/Dec/12 20:29:27	Finished
51	500-53234-I-4	GE7	Unknown		13/Dec/12 20:42:45	Finished
52	500-53234-I-4	GE8	Unknown		13/Dec/12 20:56:02	Finished
53	500-53164-A-1	GA1	Unknown		13/Dec/12 21:09:20	Finished
54	500-53164-A-2	GA2	Unknown		13/Dec/12 21:22:38	Finished
55	500-53164-A-3	GA3	Unknown		13/Dec/12 21:35:55	Finished
56	500-53164-A-4	GA4	Unknown		13/Dec/12 21:49:13	Finished
57	500-53164-A-5	GA5	Unknown		13/Dec/12 22:02:31	Finished
58	500-53190-A-1	GA6	Unknown		13/Dec/12 22:15:49	Finished
59	500-53190-A-2	GA7	Unknown		13/Dec/12 22:29:06	Finished
60	500-53190-A-3	GA8	Unknown		13/Dec/12 22:42:24	Finished
61	CCV	RA7	Check Standard	03	13/Dec/12 22:55:43	Finished
62	CCB	RA8	Unknown		13/Dec/12 23:09:00	Finished
63	500-53190-A-5	GB1	Unknown		13/Dec/12 23:22:18	Finished
64	500-53190-A-11	GB2	Unknown		13/Dec/12 23:35:35	Finished
65	500-53190-A-12	GB3	Unknown		13/Dec/12 23:48:52	Finished
66	500-53190-A-13	GB4	Unknown		14/Dec/12 00:02:10	Finished
67	500-53190-A-14	GB5	Unknown		14/Dec/12 00:15:28	Finished
68	500-53164-A-3 MS	RD1	Spiked	04	14/Dec/12 00:28:48	Finished
69	500-53164-A-3 MS	RD2	Spiked	04	14/Dec/12 00:42:05	Finished
70	500-53164-A-3 MS	RD3	Spiked	04	14/Dec/12 00:55:24	Finished
71	500-53164-A-3 MSD	RD4	Spiked	04	14/Dec/12 01:08:41	Finished
72	500-53164-A-3 MSD	RD5	Spiked	04	14/Dec/12 01:21:59	Finished
73	CCV	RA5	Check Standard	03	14/Dec/12 01:35:16	Finished
74	CCB	RA6	Unknown		14/Dec/12 01:48:33	Finished
75	500-53164-A-3 MSD	RD6	Spiked	04	14/Dec/12 02:01:50	Finished
76	500-53190-A-1 MS	RE1	Spiked	04	14/Dec/12 02:15:08	Finished
77	500-53190-A-1 MS	RE2	Spiked	04	14/Dec/12 02:28:26	Finished
78	500-53190-A-1 MS	RE3	Spiked	04	14/Dec/12 02:41:43	Finished
79	500-53190-A-1 MSD	RE4	Spiked	04	14/Dec/12 02:55:00	Finished
80	500-53190-A-1 MSD	RE5	Spiked	04	14/Dec/12 03:08:17	Finished
81	500-53190-A-1 MSD	RE6	Spiked	04	14/Dec/12 03:21:34	Finished
82	MB	RA3	Unknown		14/Dec/12 03:34:51	Finished
83	LCS	RA4	Check Standard	04	14/Dec/12 03:48:09	Finished
84	LB3	BA1	Unknown		14/Dec/12 04:01:30	Finished
85	CCV	RA7	Check Standard	03	14/Dec/12 04:14:48	Finished
86	CCB	RA8	Unknown		14/Dec/12 04:28:06	Finished
87	500-53065-A-1	BA2	Unknown		14/Dec/12 04:41:24	Finished
88	500-53065-A-2	BA3	Unknown		14/Dec/12 04:54:43	Finished
89	500-53065-A-3	BA4	Unknown		14/Dec/12 05:08:00	Finished
90	500-53065-A-4	BA5	Unknown		14/Dec/12 05:21:18	Finished
91	500-52806-A-1	BA6	Unknown		14/Dec/12 05:34:36	Finished
92	500-52806-A-2	BA7	Unknown		14/Dec/12 05:47:54	Finished
93	500-52806-A-4	BA8	Unknown		14/Dec/12 06:01:11	Finished
94	500-52806-A-7	BB1	Unknown		14/Dec/12 06:14:29	Finished
95	500-53094-A-36	BB2	Unknown		14/Dec/12 06:27:47	Finished
96	500-53094-A-37	BB3	Unknown		14/Dec/12 06:41:05	Finished
97	CCV	RA5	Check Standard	03	14/Dec/12 06:54:23	Finished
98	CCB	RA6	Unknown		14/Dec/12 07:07:41	Finished

173019 (continued)

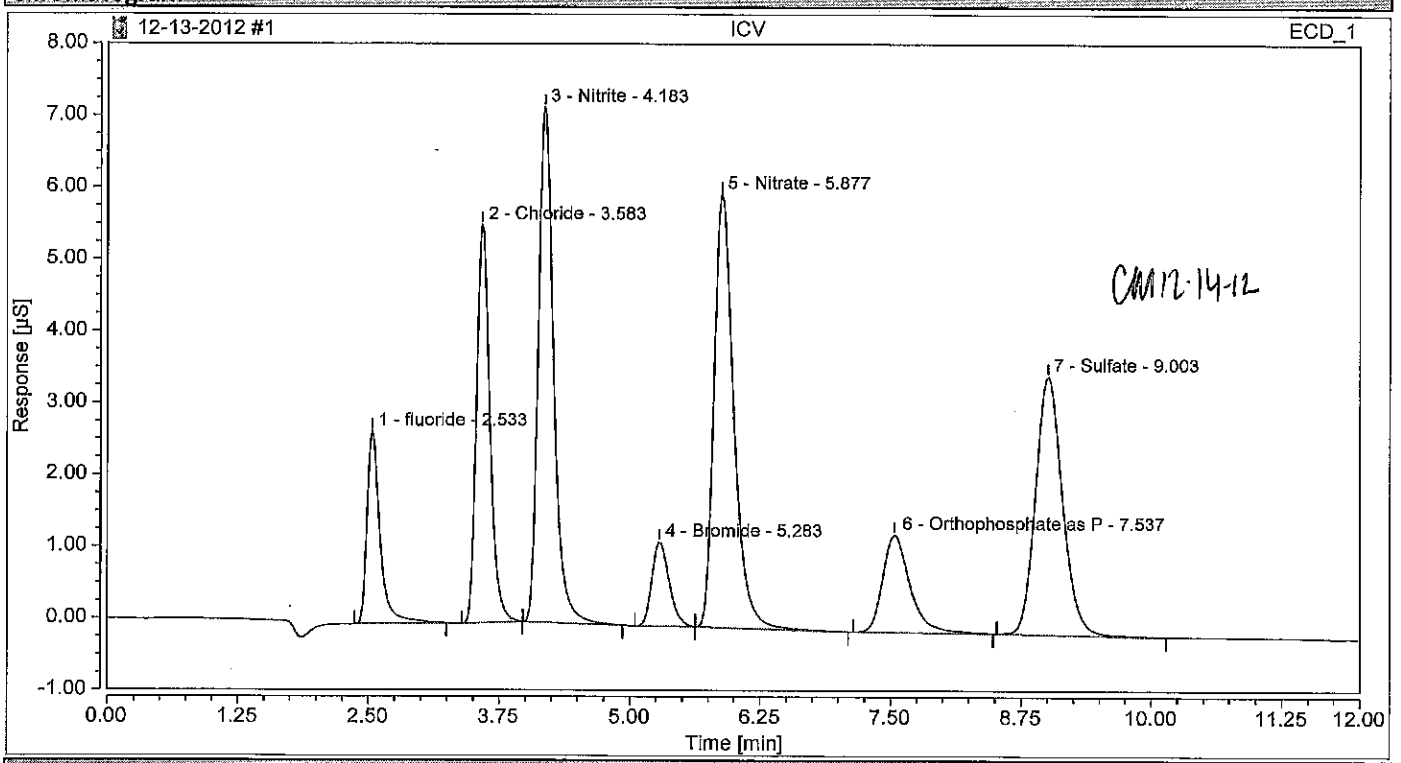
99	500-53094-A-38	BB4	Unknown		14/Dec/12 07:20:59	Finished
100	500-53094-A-39	BB5	Unknown		14/Dec/12 07:34:17	Finished
101	500-53161-A-1	BC1	Unknown		14/Dec/12 07:47:34	Finished
102	500-53161-A-1	BC2	Unknown		14/Dec/12 08:00:51	Finished
103	500-53161-A-2	BC3	Unknown		14/Dec/12 08:14:09	Finished
104	500-53161-A-2	BC4	Unknown		14/Dec/12 08:27:27	Finished
105	500-53161-A-3	BC5	Unknown		14/Dec/12 08:40:45	Finished
106	500-53161-A-3	BC6	Unknown		14/Dec/12 08:54:02	Finished
107	500-53206-A-1	BC7	Unknown		14/Dec/12 09:07:20	Finished
108	500-53206-A-1	BC8	Unknown		14/Dec/12 09:20:37	Finished
109	CCV	RA7	Check Standard	03	14/Dec/12 09:33:55	Finished
110	CCB	RA8	Unknown		14/Dec/12 09:47:13	Finished
111	500-53206-A-2	BD1	Unknown		14/Dec/12 10:00:31	Finished
112	500-53206-A-2	BD2	Unknown		14/Dec/12 10:13:48	Finished
113	500-53206-A-3	BD3	Unknown		14/Dec/12 10:27:05	Finished
114	500-53206-A-2	BE3	Unknown		14/Dec/12 10:40:22	Finished
115	500-53206-A-4	BD5	Unknown		14/Dec/12 10:53:39	Finished
116	500-53206-A-4	BD6	Unknown		14/Dec/12 11:06:56	Finished
117	500-53206-A-5	BD7	Unknown		14/Dec/12 11:20:13	Finished
118	500-53206-A-5	BD8	Unknown		14/Dec/12 11:33:29	Finished
119	500-52806-A-2 MS	BE1	Spiked	04	14/Dec/12 11:46:46	Finished
120	500-52806-A-2 MSD	BE2	Spiked	04	14/Dec/12 12:00:03	Finished
121	500-53206-A-5	BE4	Unknown		14/Dec/12 12:13:20	Finished
122	CCV	RA5	Check Standard	03	14/Dec/12 12:26:40	Finished
123	CCB	RA6	Unknown		14/Dec/12 12:39:58	Finished

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**12.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 09:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

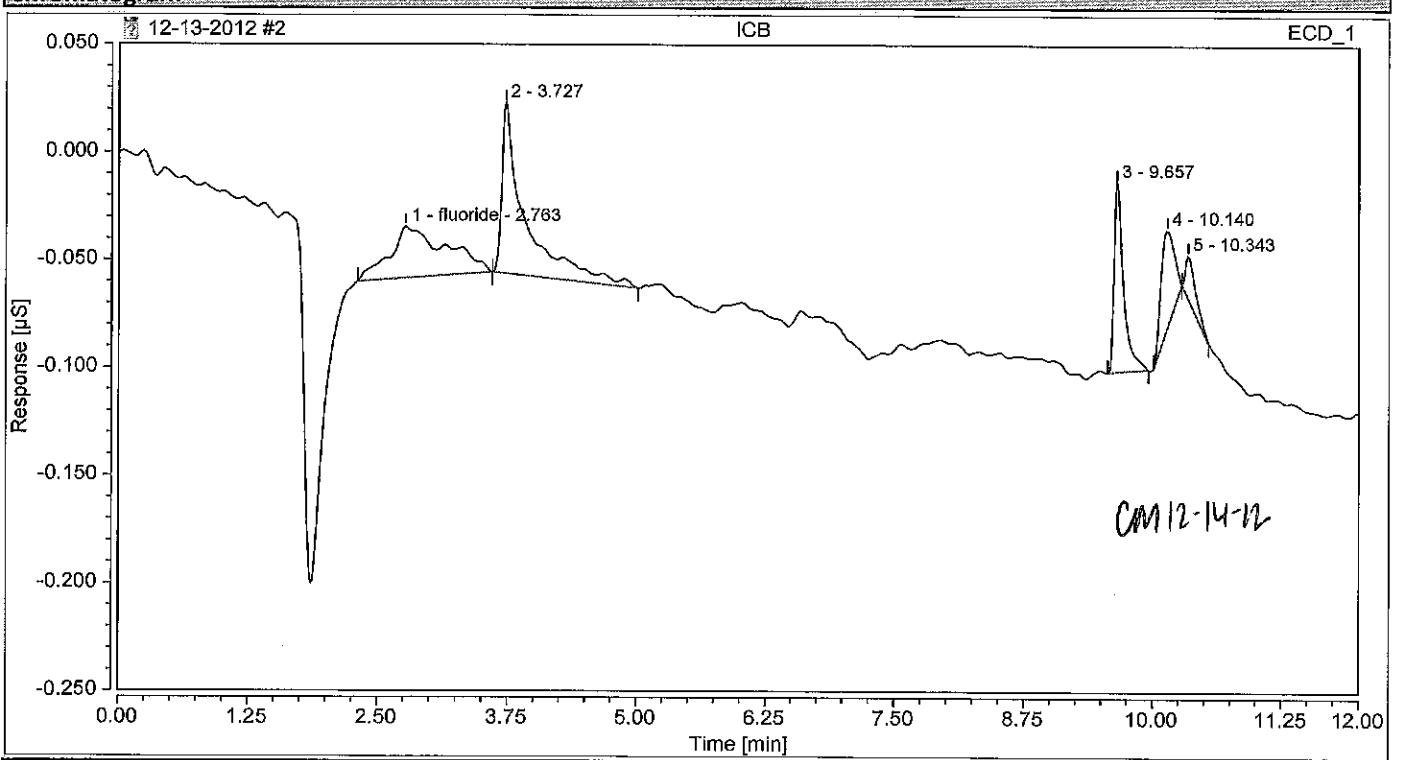
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.533	0.390	2.674	7.10	9.71	1.0627
2	Chloride	3.583	0.829	5.540	15.08	20.12	2.9582
3	Nitrite	4.183	1.219	7.172	22.17	26.05	1.9018
4	Bromide	5.283	0.225	1.170	4.09	4.25	2.0609
5	Nitrate	5.877	1.339	6.029	24.36	21.90	2.0112
6	Orthophosphate as P	7.537	0.417	1.356	7.59	4.93	2.0945
7	Sulfate	9.003	1.079	3.594	19.62	13.05	5.5000
Total:			**5.498**	**27.535**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**12.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 09:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

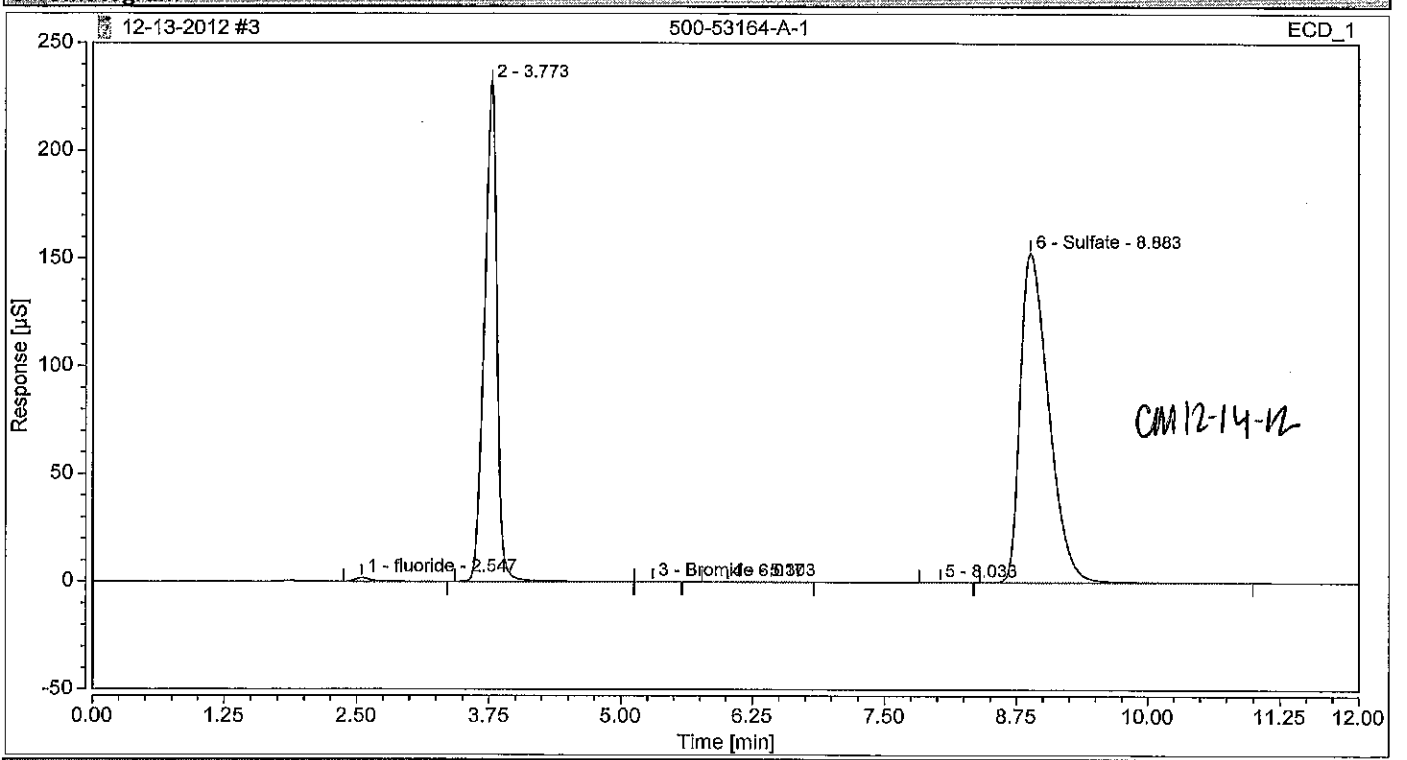
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1*	fluoride	2.763	0.015	0.024	27.39	9.31	0.0401
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.727	0.020	0.079	38.00	30.90	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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.
3		9.657	0.010	0.088	17.69	34.29	n.a.
4		10.140	0.007	0.045	12.64	17.71	n.a.
5		10.343	0.002	0.020	4.28	7.79	n.a.
Total:			**0.054**	**0.256**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

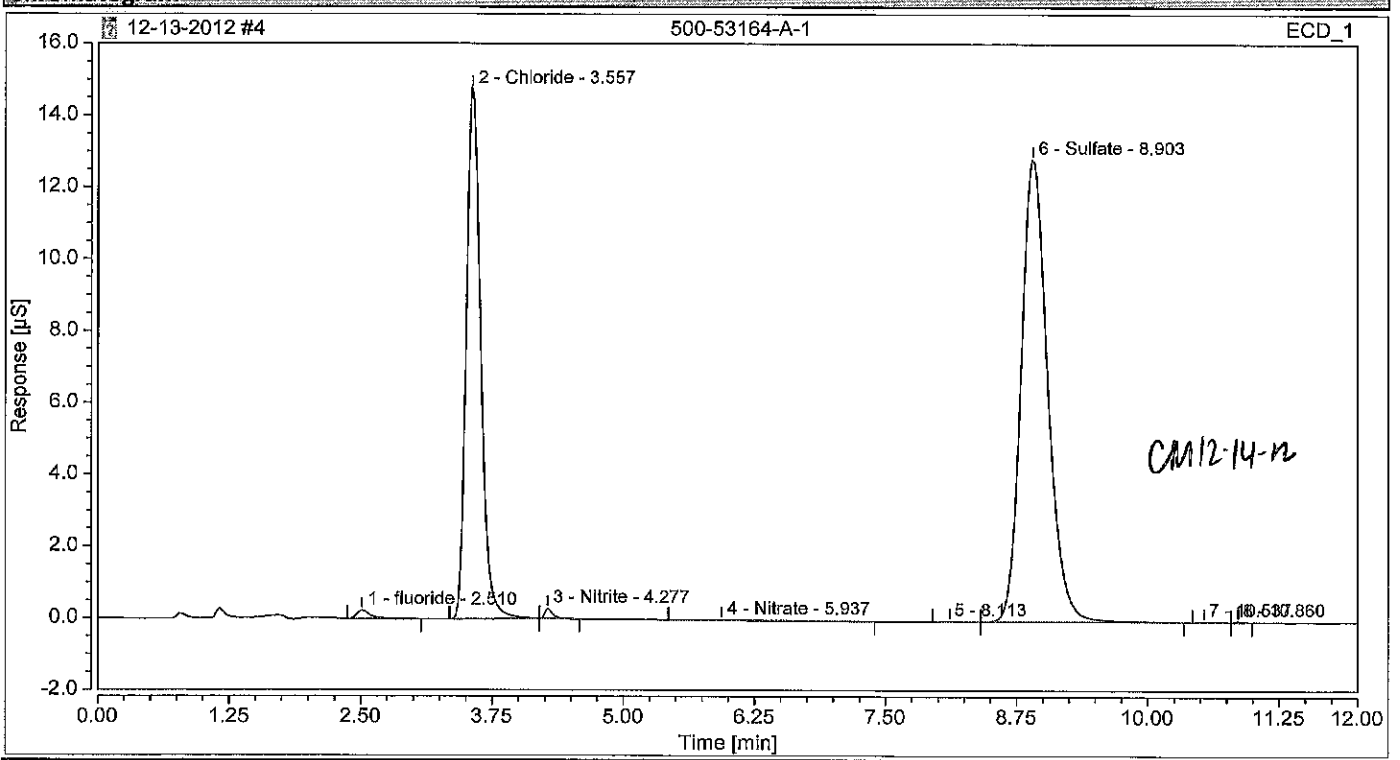
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.547	0.316	1.826	0.39	0.47	0.8592
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.773	31.967	231.458	39.82	59.92	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.303	0.020	0.112	0.03	0.03	0.1847
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.017	0.018	0.082	0.02	0.02	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		8.033	0.002	0.009	0.00	0.00	n.a.
6	Sulfate	8.883	47.966	152.785	59.74	39.55	244.5968
Total:			**80.287**	**386.272**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 10:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

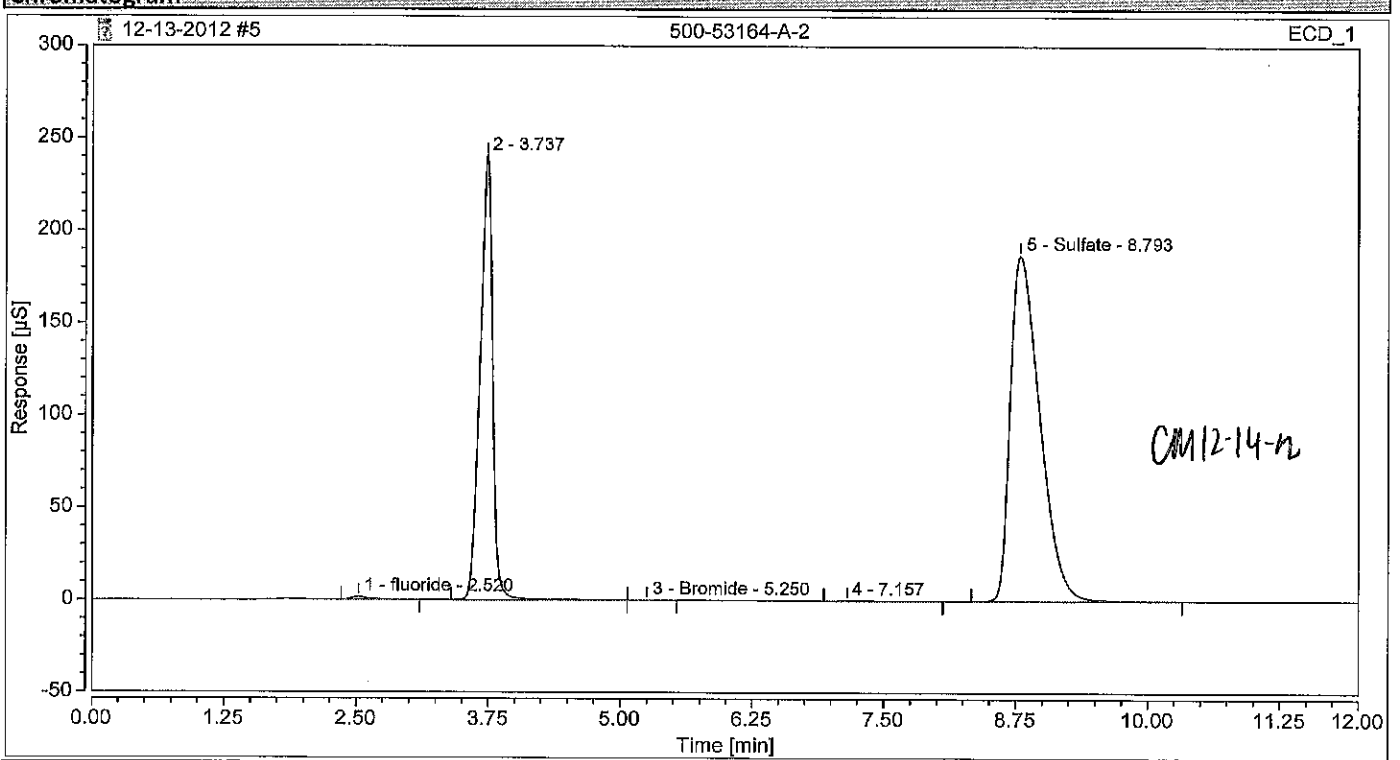
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.035	0.231	0.57	0.82	0.9638
2	Chloride Ok	3.557	2.385	14.760	38.15	52.32	85.0992
3	Nitrite KE	4.277	0.025	0.280	0.40	0.99	0.3863
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate KE	5.937	0.013	0.017	0.20	0.06	0.1879
n.a.	Orthophosphate as Pm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		8.113	0.003	0.014	0.05	0.05	n.a.
6	Sulfate PR	8.903	3.786	12.871	60.56	45.62	193.0653
7		10.537	0.003	0.017	0.05	0.06	n.a.
8		10.860	0.002	0.021	0.03	0.08	n.a.
Total:			**6.252**	**28.210**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

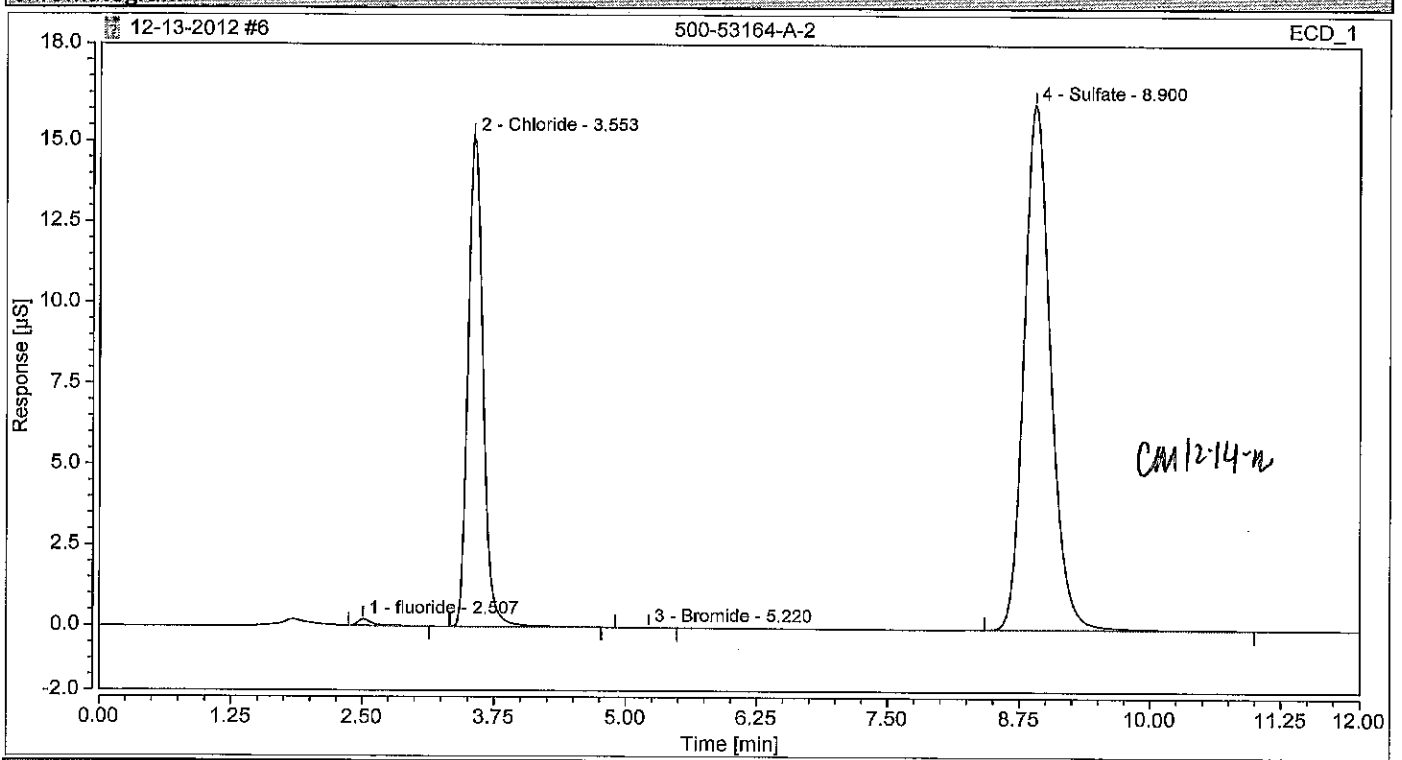
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.264	1.538	0.28	0.36	0.7194
n.a.	Chloride 0 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.737	33.450	240.518	35.49	56.02	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.250	0.020	0.111	0.02	0.03	0.1833
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		7.157	0.017	0.094	0.02	0.02	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate 0 x	8.793	60.491	187.045	64.19	43.57	308.4667
Total:			**94.242**	**429.307**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 10:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

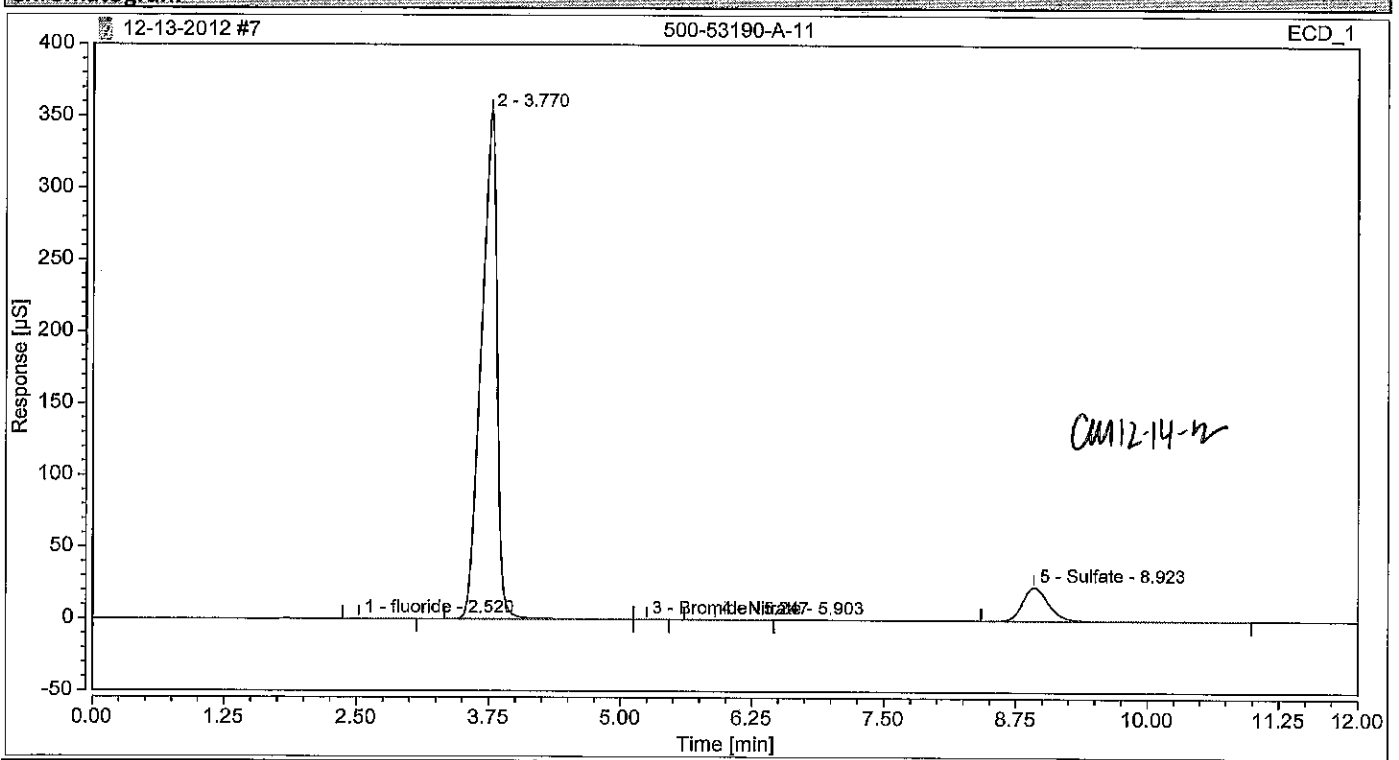
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.032	0.201	0.44	0.64	0.8817
2	Chloride	3.553	2.505	15.176	34.08	47.99	89.3624
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.220	0.002	0.012	0.03	0.04	0.2220
n.a.	Nitrate	n.a.	n.a.	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	8.900	4.810	16.235	65.45	51.34	245.2907
Total:			**7.350**	**31.624**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:57**	*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 m	2.520	0.068	0.389	0.10	0.10	0.1864
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.770	60.932	352.996	89.85	93.64	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.247	0.005	0.033	0.01	0.01	0.0493
4	Nitrate	5.903	0.008	0.030	0.01	0.01	0.0124
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	8.923	6.797	23.508	10.02	6.24	34.6627
Total:			**67.811**	**376.956**	**100.00**	**100.00**	

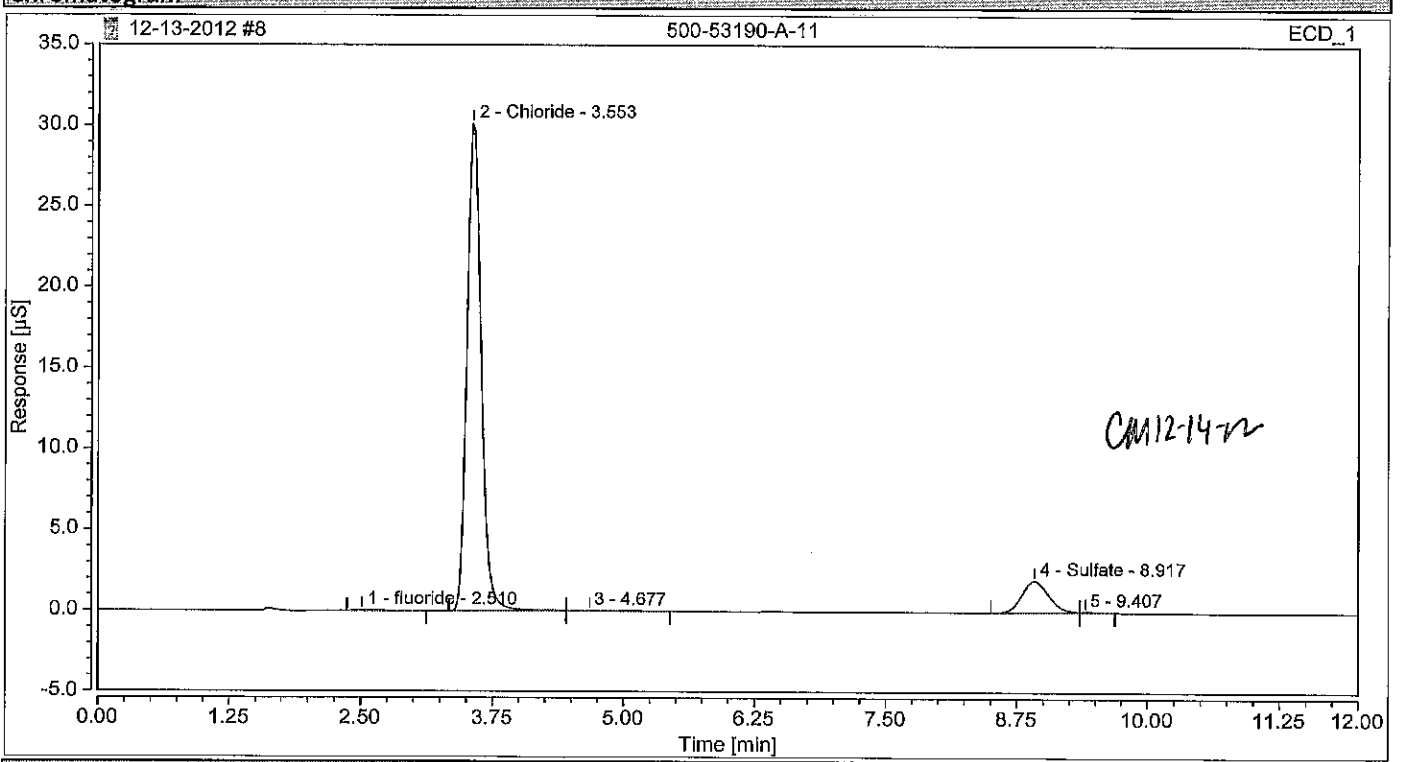
CM 12-14-n

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 11:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

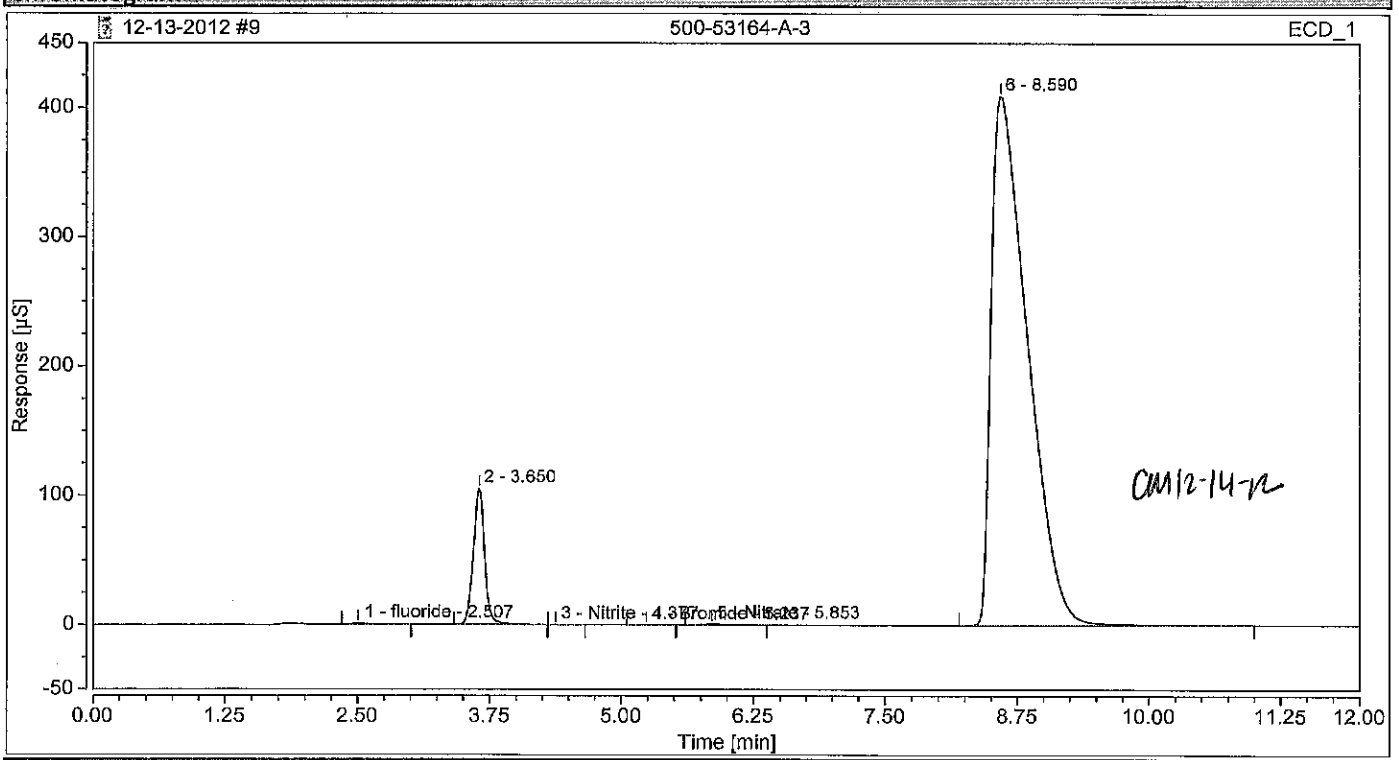
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.009	0.053	0.17	0.16	0.2438
2	Chloride m	3.553	4.735	30.165	88.81	93.63	168.9286
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.677	0.010	0.016	0.19	0.05	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.917	0.574	1.950	10.77	6.05	29.2727
5		9.407	0.004	0.035	0.07	0.11	n.a.
Total:			**5.331**	**32.219**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 11:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

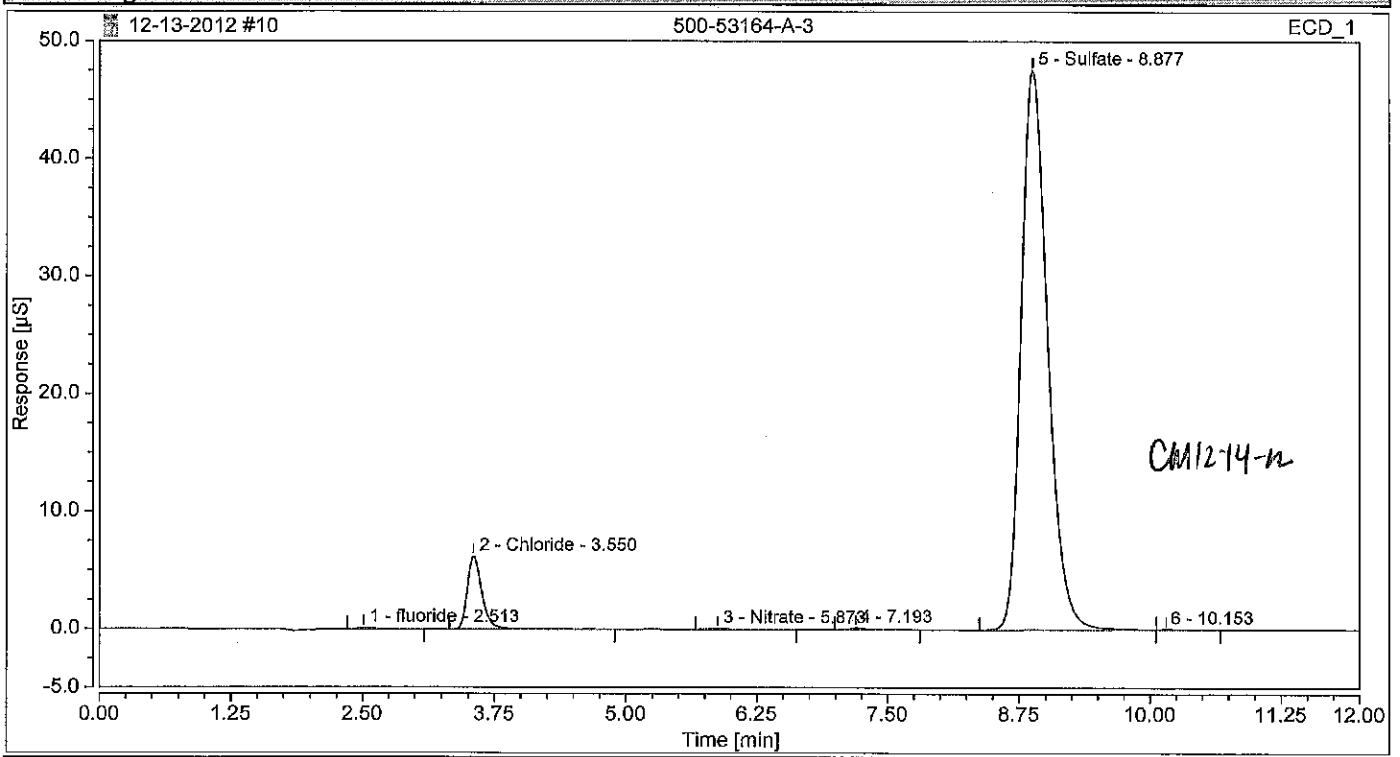
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.153	0.919	0.09	0.18	0.4161
n.a.	Chloride OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.650	12.987	105.413	7.33	20.41	n.a.
3	Nitrite m	4.377	0.009	0.065	0.01	0.01	0.0141
4	Bromide m	5.237	0.010	0.053	0.01	0.01	0.0940
5	Nitrate	5.853	0.137	0.611	0.08	0.12	0.2054
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.590	163.876	409.367	92.50	79.27	n.a.
n.a.	Sulfate OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**177.172**	**516.428**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 11:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

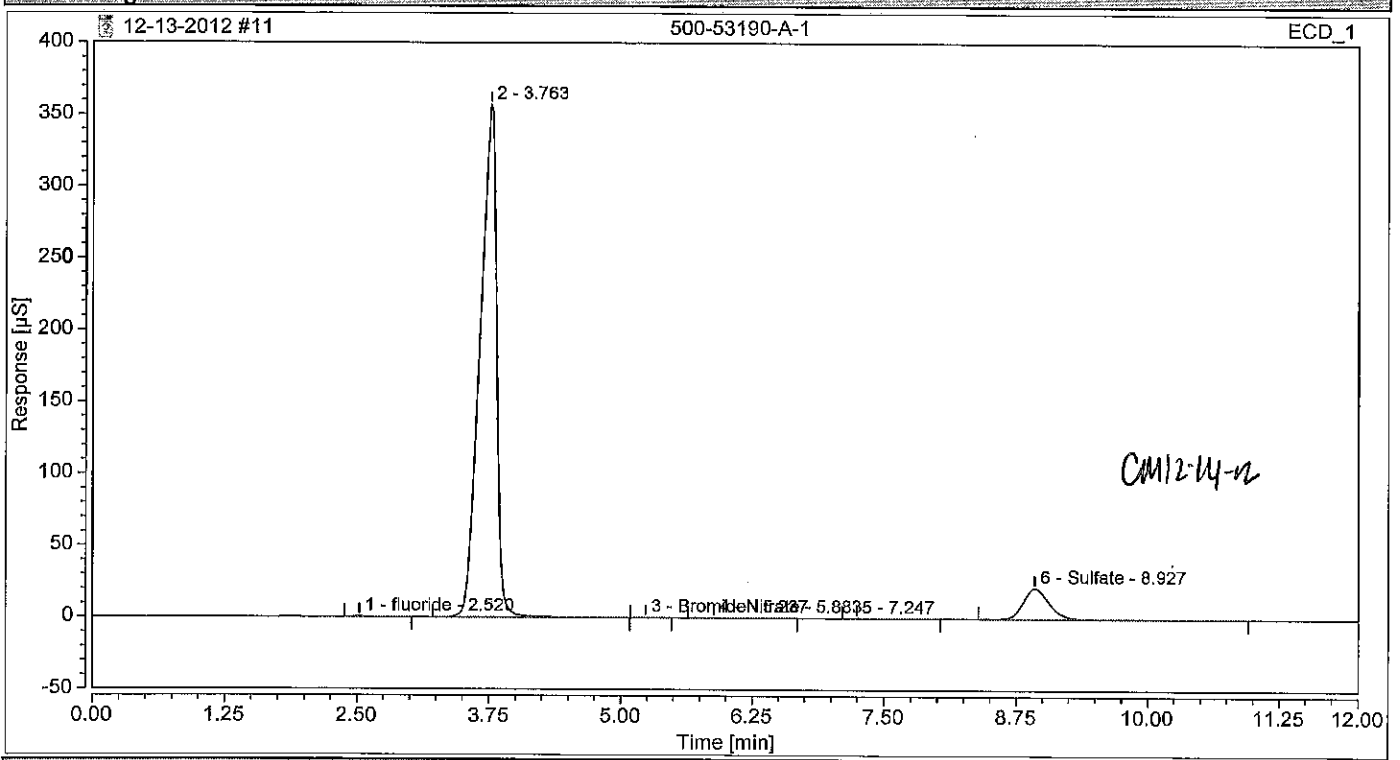
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.020	0.121	0.14	0.22	0.5506
2	Chloride	3.550	0.988	6.196	6.62	11.44	35.2378
n.a.	Nitrite RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate RC	5.873	0.014	0.055	0.09	0.10	0.2127
4		7.193	0.021	0.136	0.14	0.25	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate O_4	8.877	13.866	47.604	92.95	87.93	707.0708
6		10.153	0.008	0.029	0.05	0.05	n.a.
Total:			**14.917**	**54.142**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 11:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

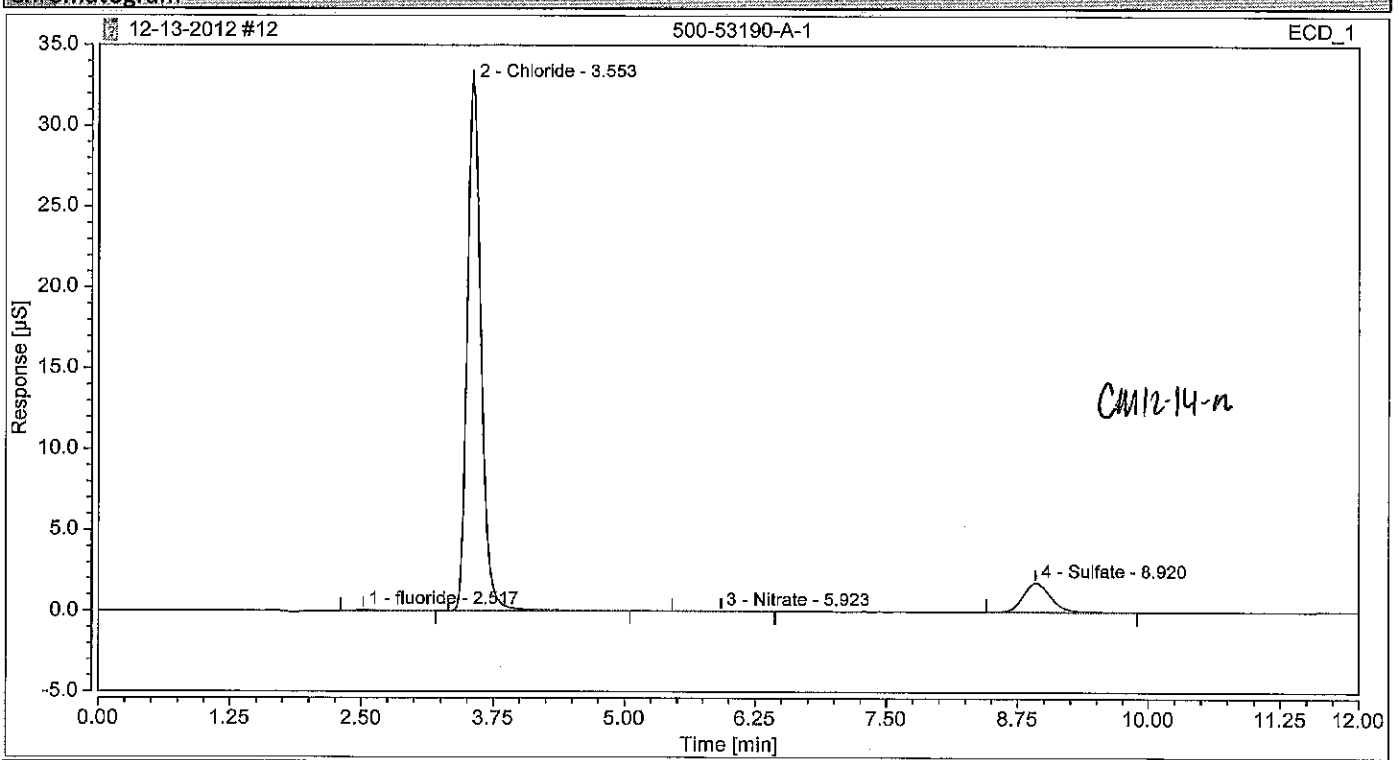
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.063	0.381	0.09	0.10	0.1727
n.a.	Chloride OR	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.763	64.089	356.704	91.00	94.19	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.237	0.005	0.033	0.01	0.01	0.0493
4	Nitrate	5.883	0.013	0.044	0.02	0.01	0.0201
5		7.247	0.003	0.010	0.00	0.00	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OR	8.927	6.250	21.531	8.87	5.69	31.8701
Total:			**70.424**	**378.702**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 12:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

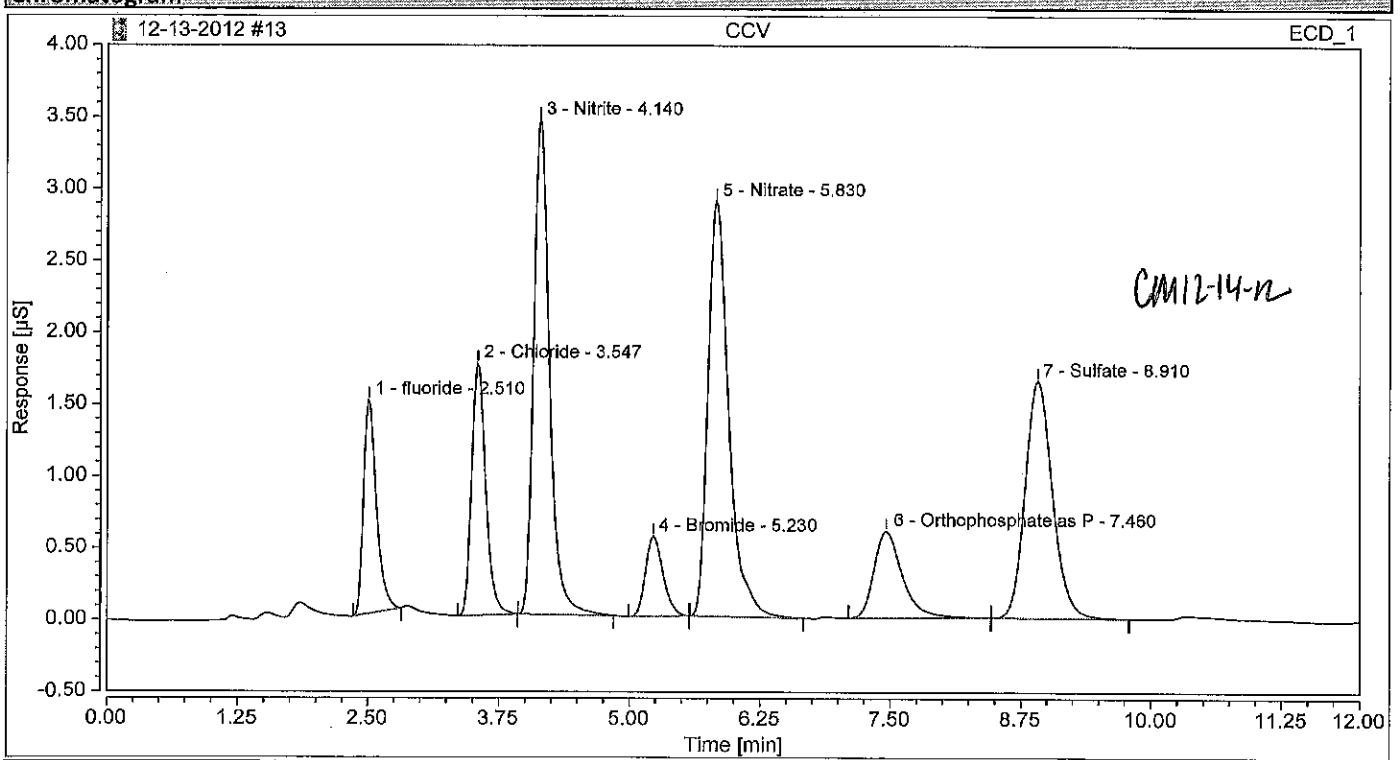
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.013	0.054	0.23	0.16	0.3523
2	Chloride m	3.553	4.983	32.673	89.81	94.59	177.7769
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.923	0.003	0.010	0.06	0.03	0.0507
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.920	0.549	1.803	9.89	5.22	27.9841
Total:			**5.548**	**34.541**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

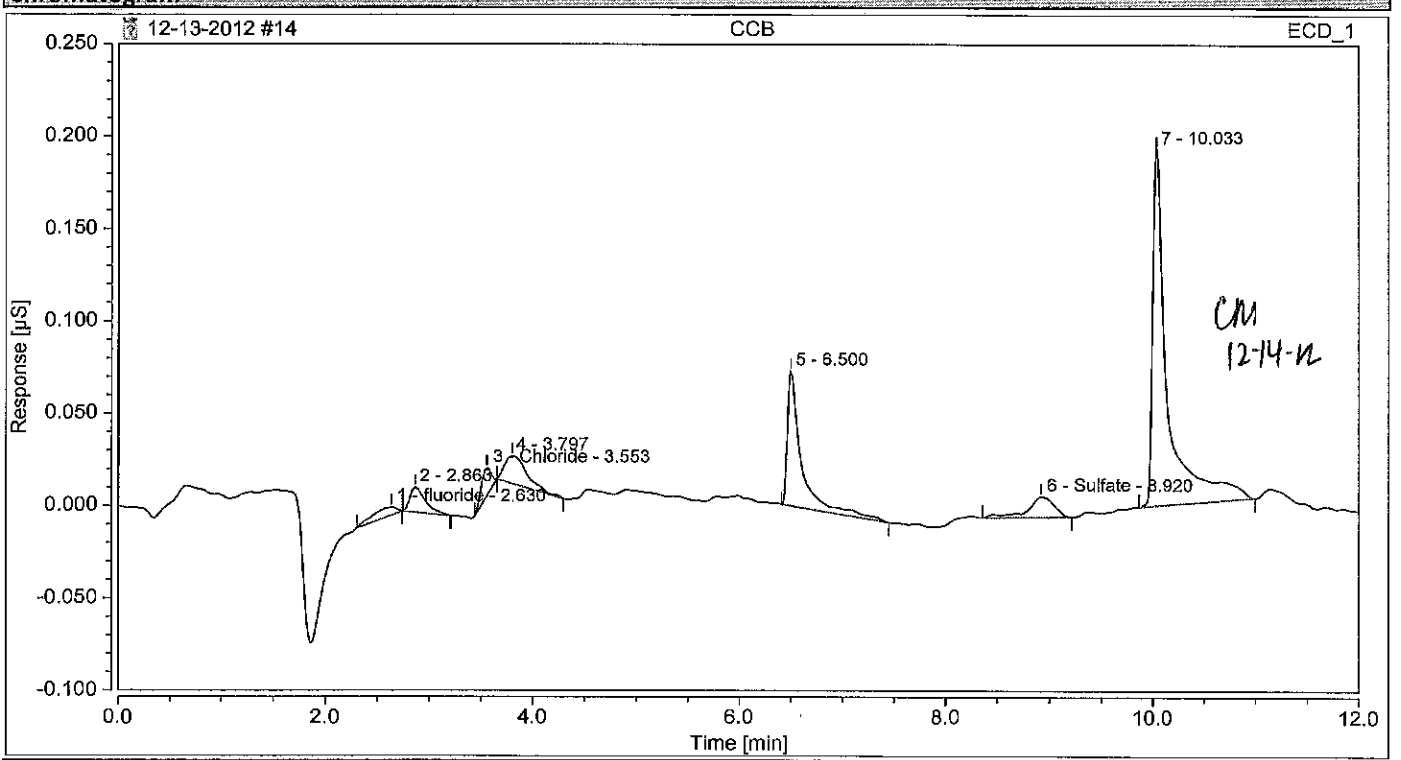
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.215	1.486	8.39	12.01	0.5859
2	Chloride	3.547	0.272	1.753	10.59	14.17	0.9696
3	Nitrite	4.140	0.606	3.439	23.61	27.80	0.9450
4	Bromide	5.230	0.110	0.555	4.28	4.49	1.0068
5	Nitrate	5.830	0.665	2.889	25.93	23.35	0.9988
6	Orthophosphate as P	7.460	0.191	0.602	7.46	4.86	0.9610
7	Sulfate	8.910	0.506	1.649	19.74	13.33	2.5826
Total:			**2.565**	**12.373**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

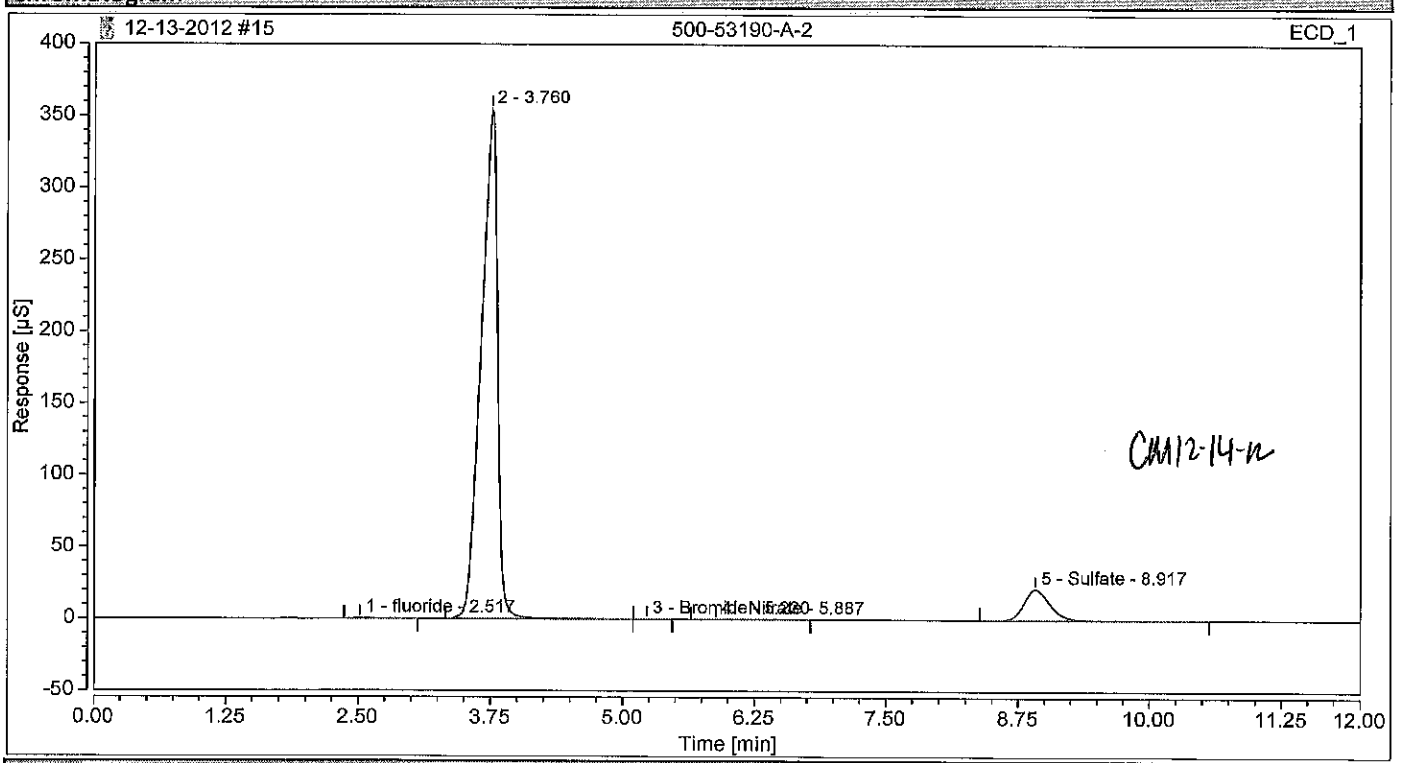
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.630	0.001	0.004	2.43	1.35	0.0038
2		2.863	0.002	0.014	4.11	4.18	n.a.
3	Chloride	3.553	0.002	0.015	2.92	4.56	0.0059
4		3.797	0.004	0.015	6.79	4.59	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
5		6.500	0.011	0.073	20.07	22.48	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.920	0.003	0.011	5.93	3.45	0.0172
7		10.033	0.033	0.193	57.74	59.41	n.a.
Total:			**0.057**	**0.325**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

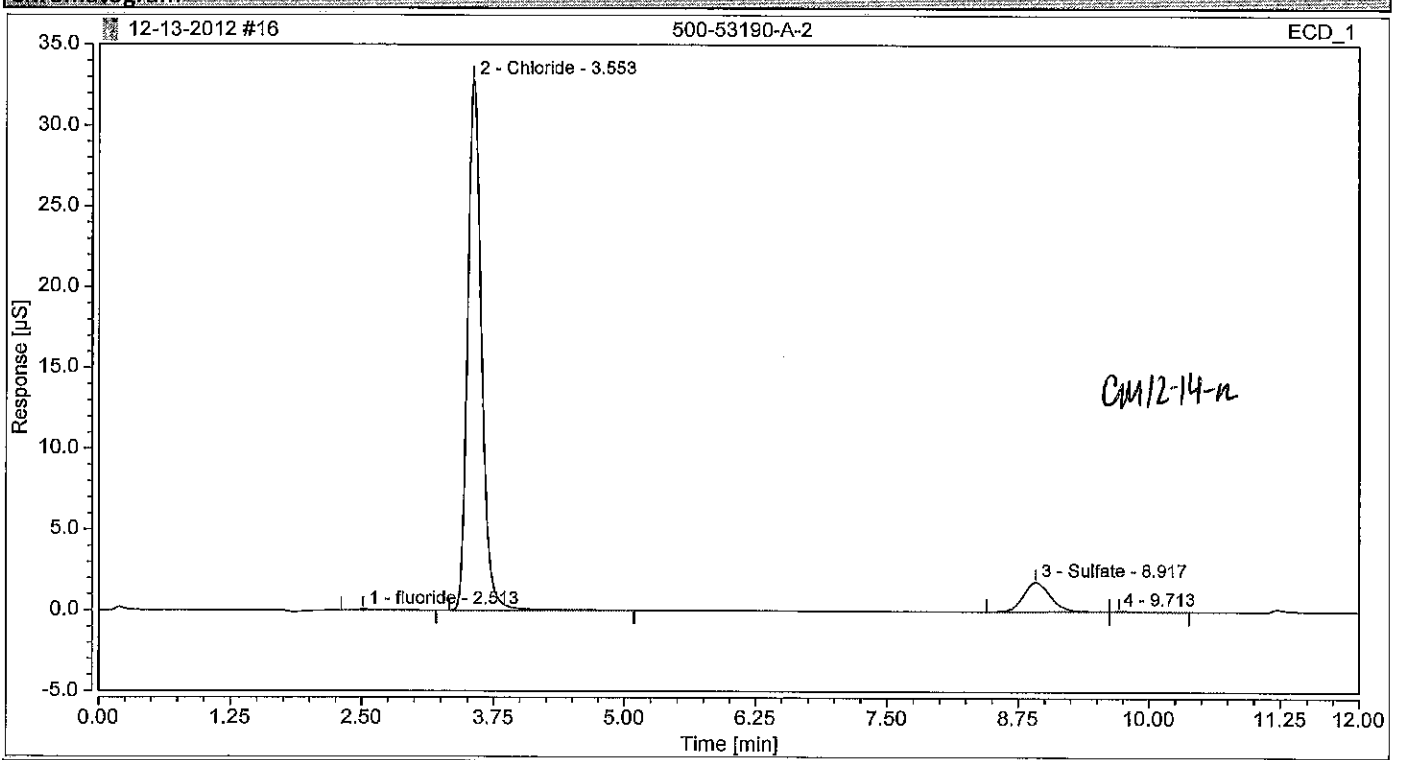
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.067	0.386	0.10	0.10	0.1828
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.760	63.748	354.907	90.93	94.14	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.230	0.005	0.032	0.01	0.01	0.0488
4	Nitrate	5.887	0.014	0.048	0.02	0.01	0.0216
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	8.917	6.274	21.625	8.95	5.74	31.9918
Total:			**70.109**	**376.997**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 12:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

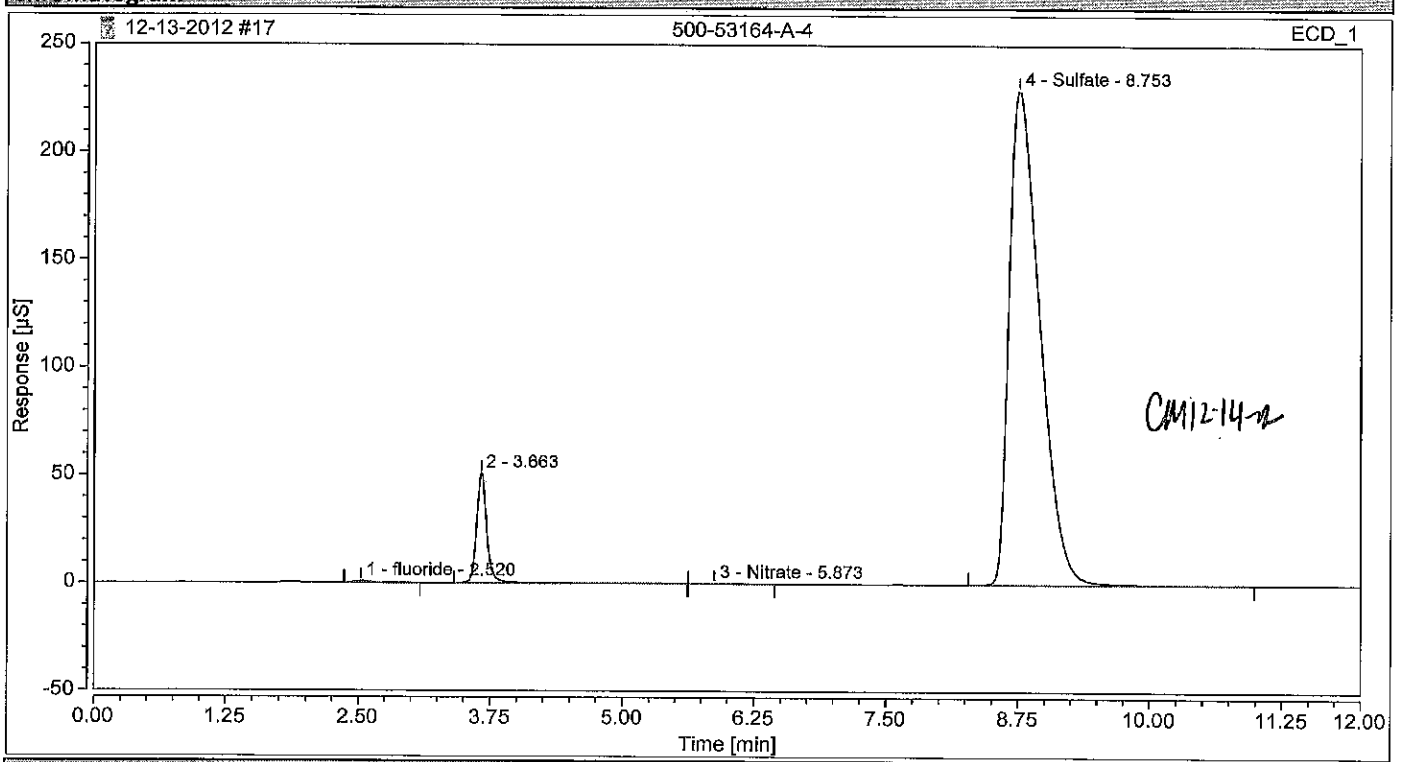
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.012	0.055	0.21	0.16	0.3192
2	Chloride OK	3.553	5.028	32.848	89.86	94.52	179.3932
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate KV	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.917	0.550	1.811	9.82	5.21	28.0315
4		9.713	0.006	0.037	0.11	0.11	n.a.
Total:			**5.595**	**34.751**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

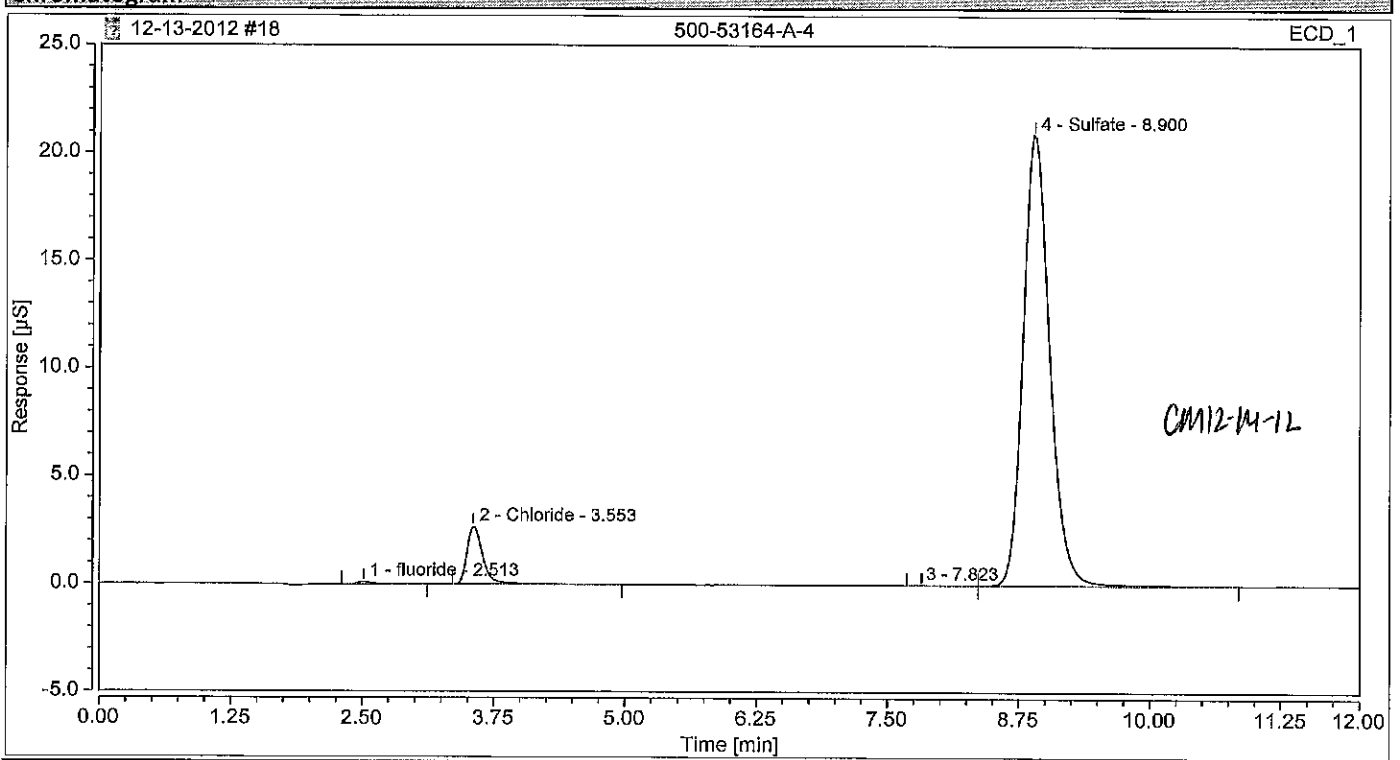
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride vm	2.520	0.134	0.781	0.16	0.28	0.3642
n.a.	Chloride DK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.663	5.762	50.957	6.92	18.12	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide vm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.873	0.016	0.070	0.02	0.02	0.0245
n.a.	Orthophosphate as P vm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate DK	8.753	77.343	229.357	92.90	81.57	394.4036
Total:			**83.255**	**281.165**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 13:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

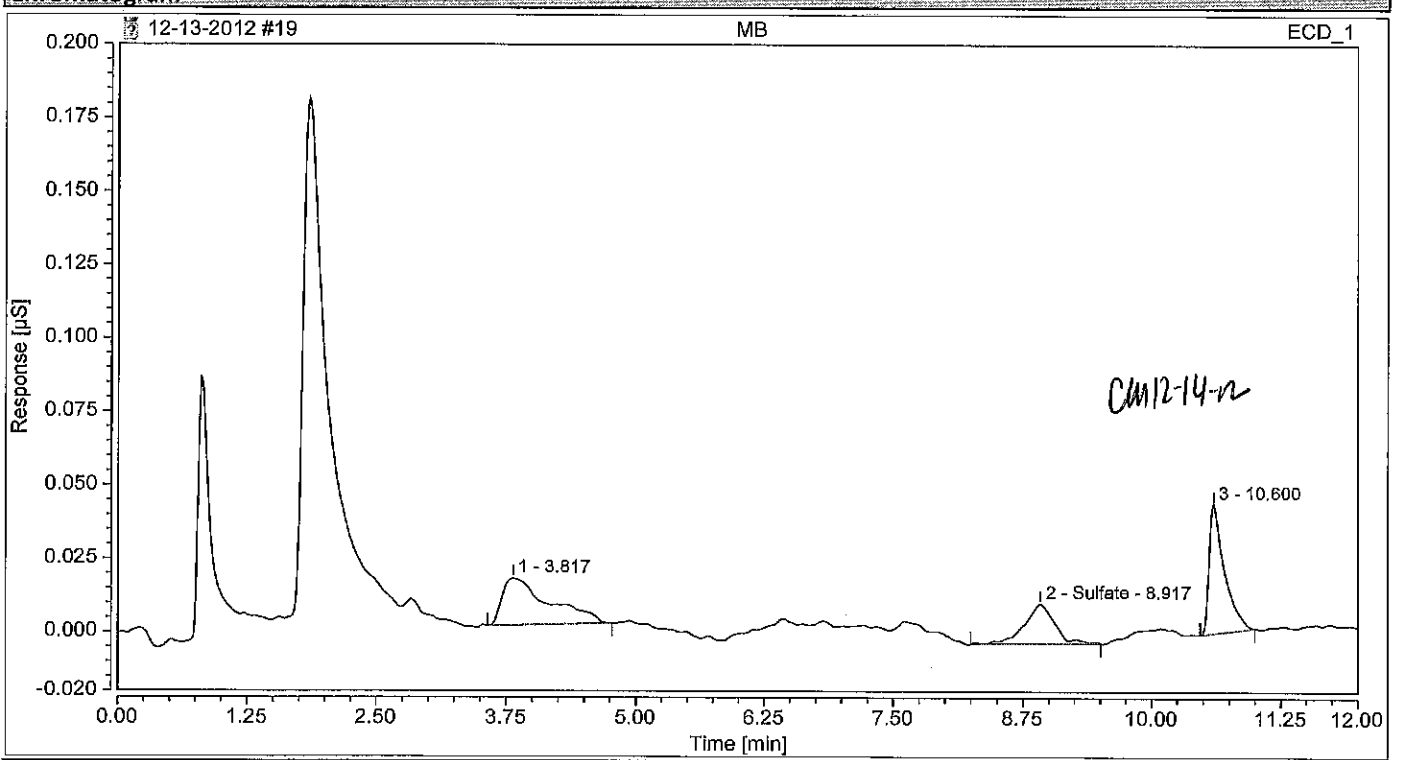
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.020	0.117	0.30	0.49	0.5387
2	Chloride	3.553	0.468	2.671	7.05	11.26	16.6989
n.a.	Nitrite Nc	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate Nc	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		7.823	0.003	0.011	0.05	0.05	n.a.
4	Sulfate Oc	8.900	6.150	20.922	92.61	88.20	313.6235
Total:			**6.641**	**23.722**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**12.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

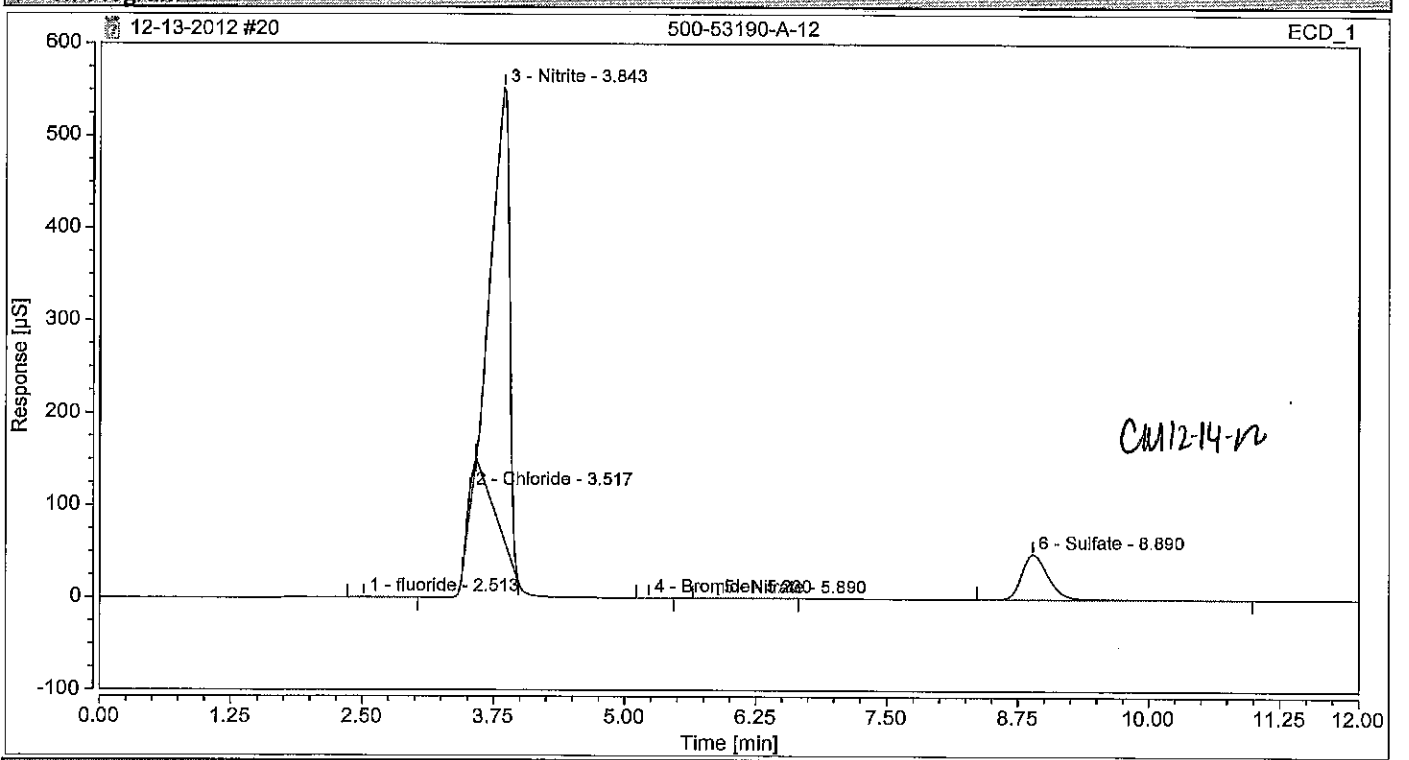
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.817	0.008	0.016	40.58	21.73	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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	8.917	0.005	0.014	22.67	18.49	0.0237
3		10.600	0.008	0.044	36.76	59.78	n.a.
Total:			**0.021**	**0.073**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

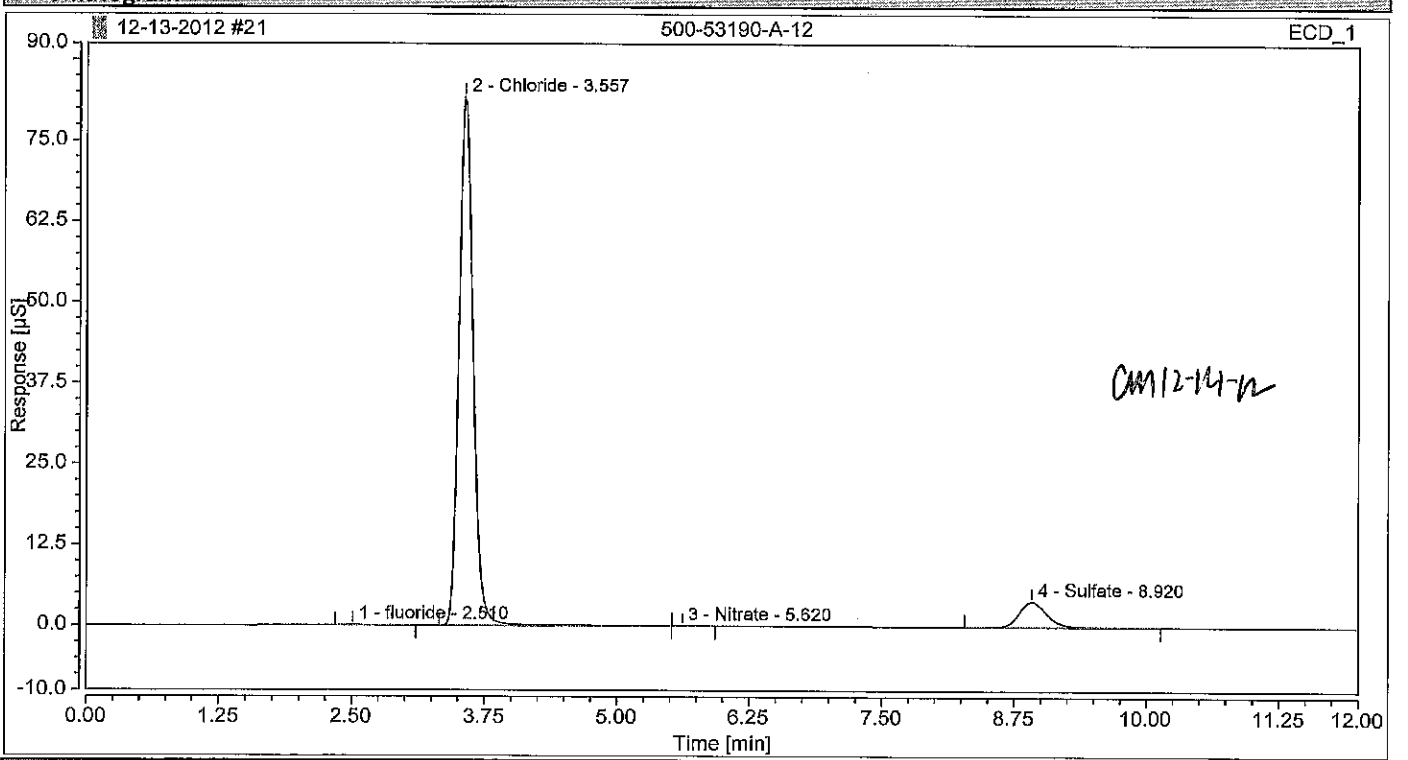
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.109	0.620	0.10	0.11	0.2967
2	Chloride	3.517	1.493	21.497	1.37	3.84	5.3273
3	Nitrite	3.843	92.872	489.048	85.45	87.33	144.9010
4	Bromide	5.230	0.006	0.036	0.01	0.01	0.0544
5	Nitrate	5.890	0.013	0.039	0.01	0.01	0.0194
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.890	14.188	48.737	13.05	8.70	72.3480
Total:			**108.680**	**559.976**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 14:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

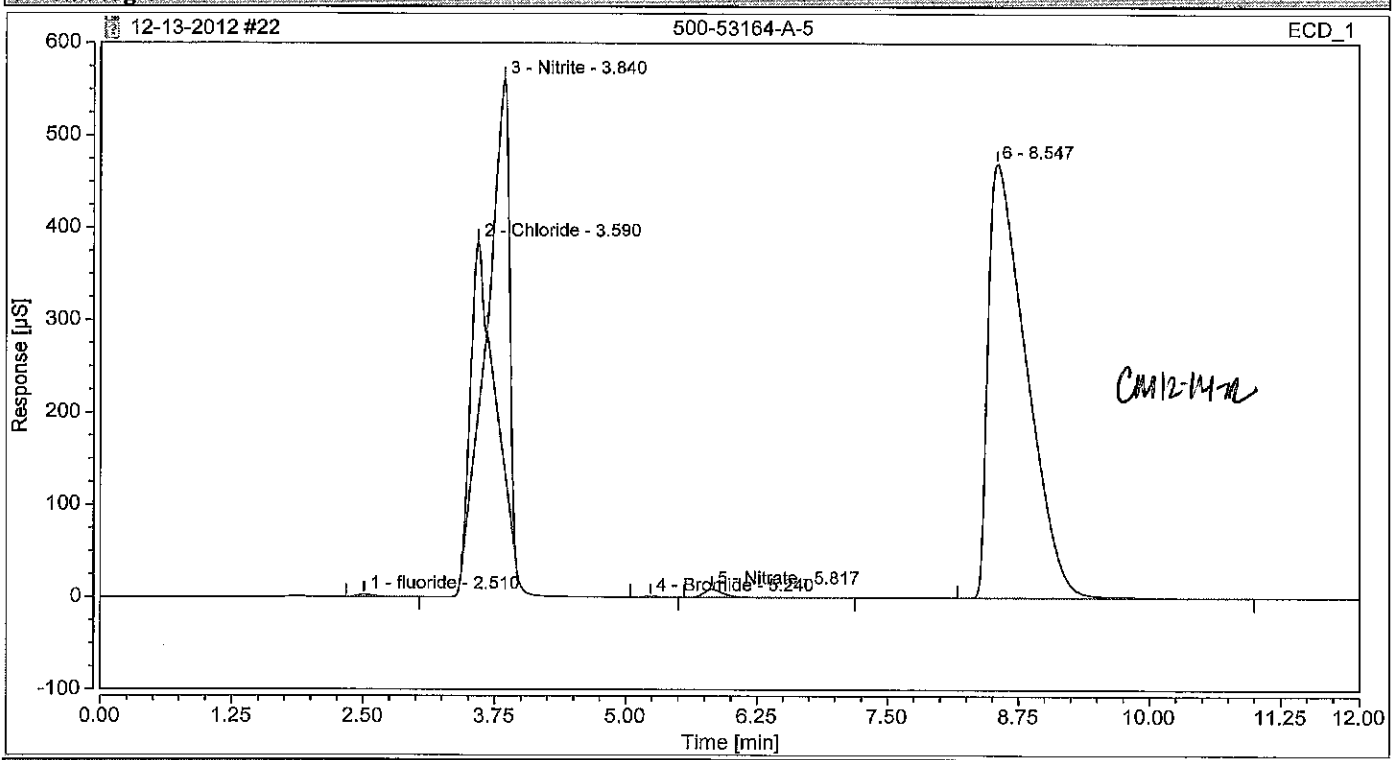
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.013	0.081	0.10	0.09	0.3600
2	Chloride m	3.557	12.590	81.767	91.20	95.29	449.1858
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.620	0.004	0.025	0.03	0.03	0.0563
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.920	1.198	3.932	8.68	4.58	61.0999
Total:			**13.805**	**85.805**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

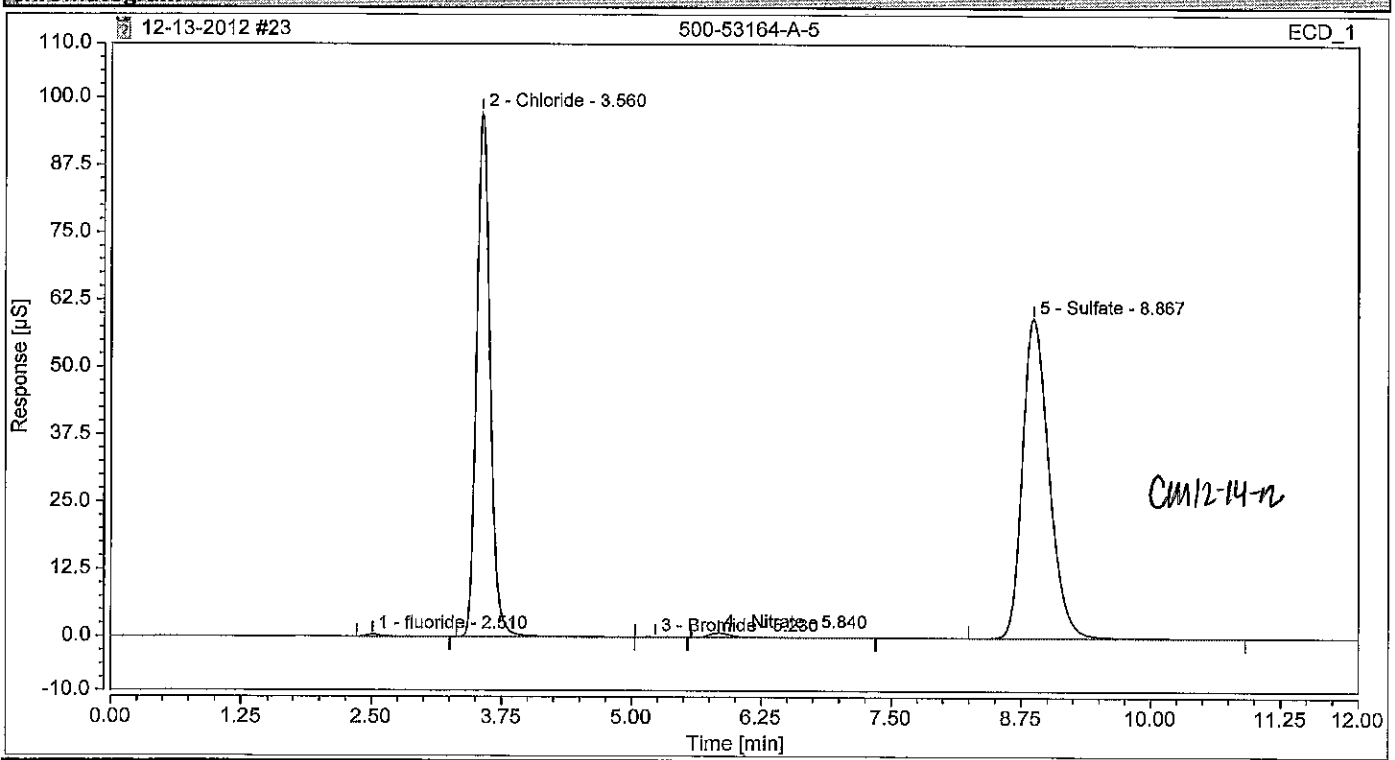
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.467	2.732	0.17	0.25	1.2714
2	Chloride OK	3.590	22.393	185.631	7.93	17.05	79.8960
3	Nitrite OK	3.840	58.529	421.266	20.72	38.68	91.3177
4	Bromide m	5.240	0.121	0.670	0.04	0.06	1.1089
5	Nitrate	5.817	1.905	8.669	0.67	0.80	2.8611
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.547	199.104	470.024	70.47	43.16	n.a.
n.a.	Sulfate OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**282.519**	**1088.991**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 14:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

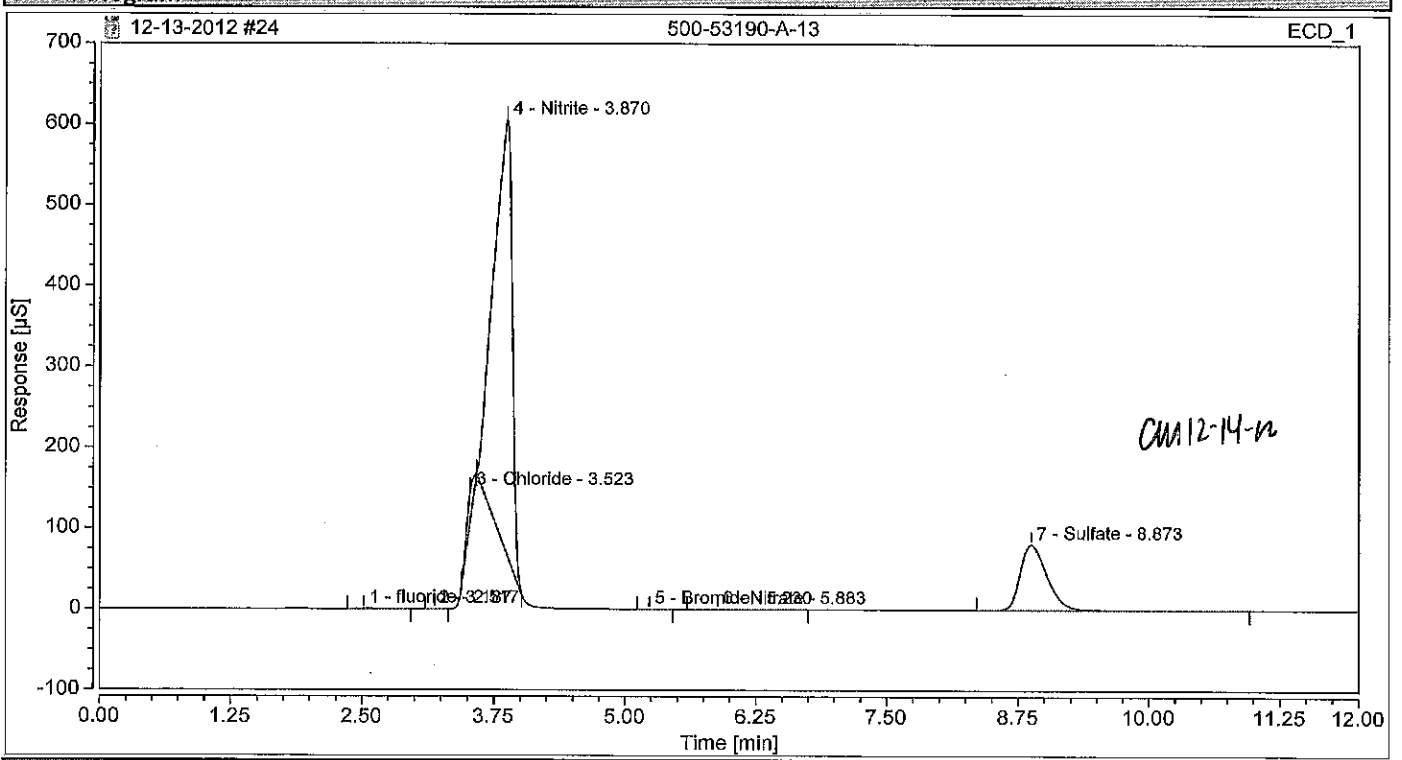
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.069	0.422	0.21	0.27	1.8820
2	Chloride	3.560	14.674	97.409	45.18	61.64	523.5595
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.230	0.013	0.066	0.04	0.04	1.1704
4	Nitrate	5.840	0.198	0.815	0.61	0.52	2.9706
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.867	17.525	59.322	53.96	37.54	893.6511
Total:			**32.479**	**158.034**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

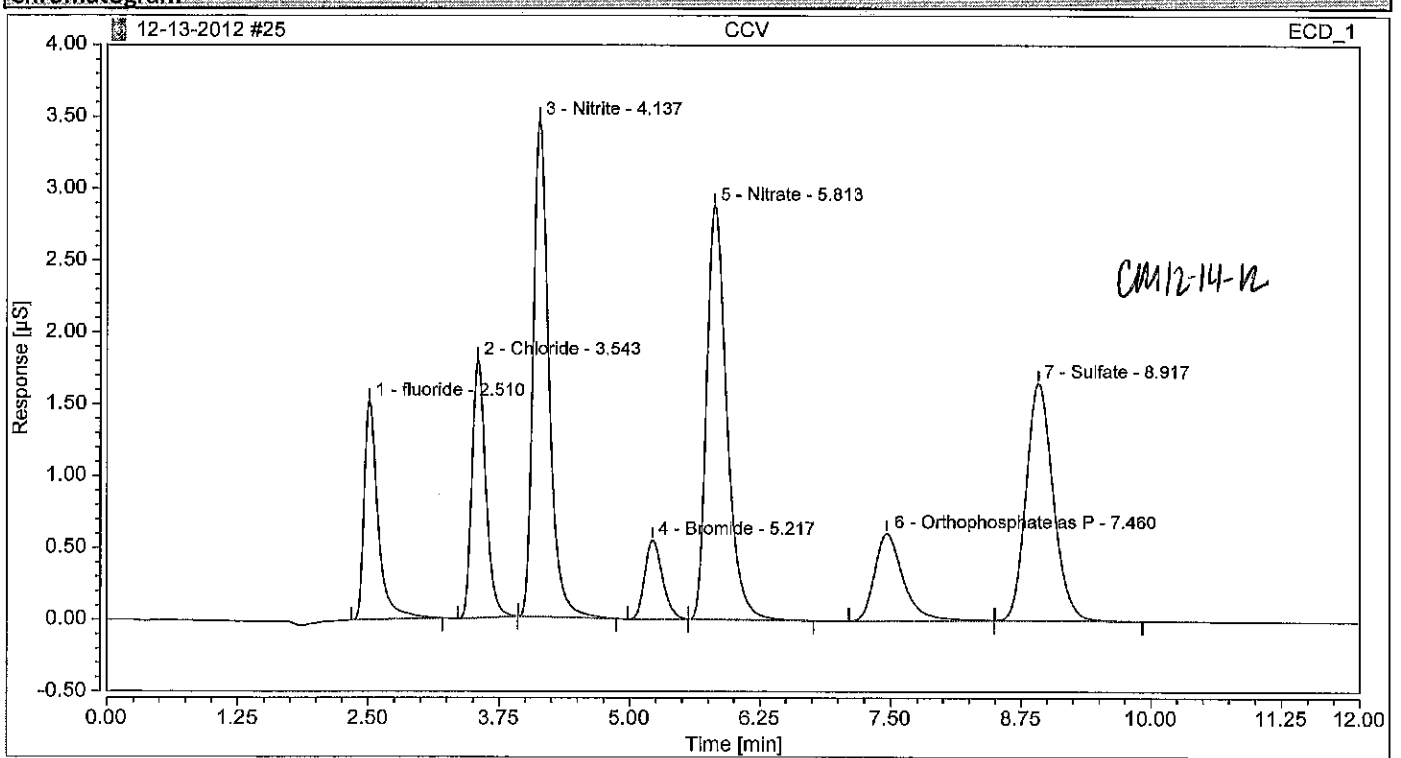
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.098	0.556	0.07	0.08	0.2674
2		3.187	0.020	0.183	0.01	0.03	n.a.
3	Chloride m	3.523	2.798	37.676	2.06	5.73	9.9841
4	Nitrite m	3.870	108.858	537.586	80.08	81.77	169.8429
5	Bromide m	5.230	0.006	0.038	0.00	0.01	0.0572
6	Nitrate	5.883	0.021	0.069	0.02	0.01	0.0320
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate m	8.873	24.129	81.325	17.75	12.37	123.0450
Total:			**135.931**	**657.432**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

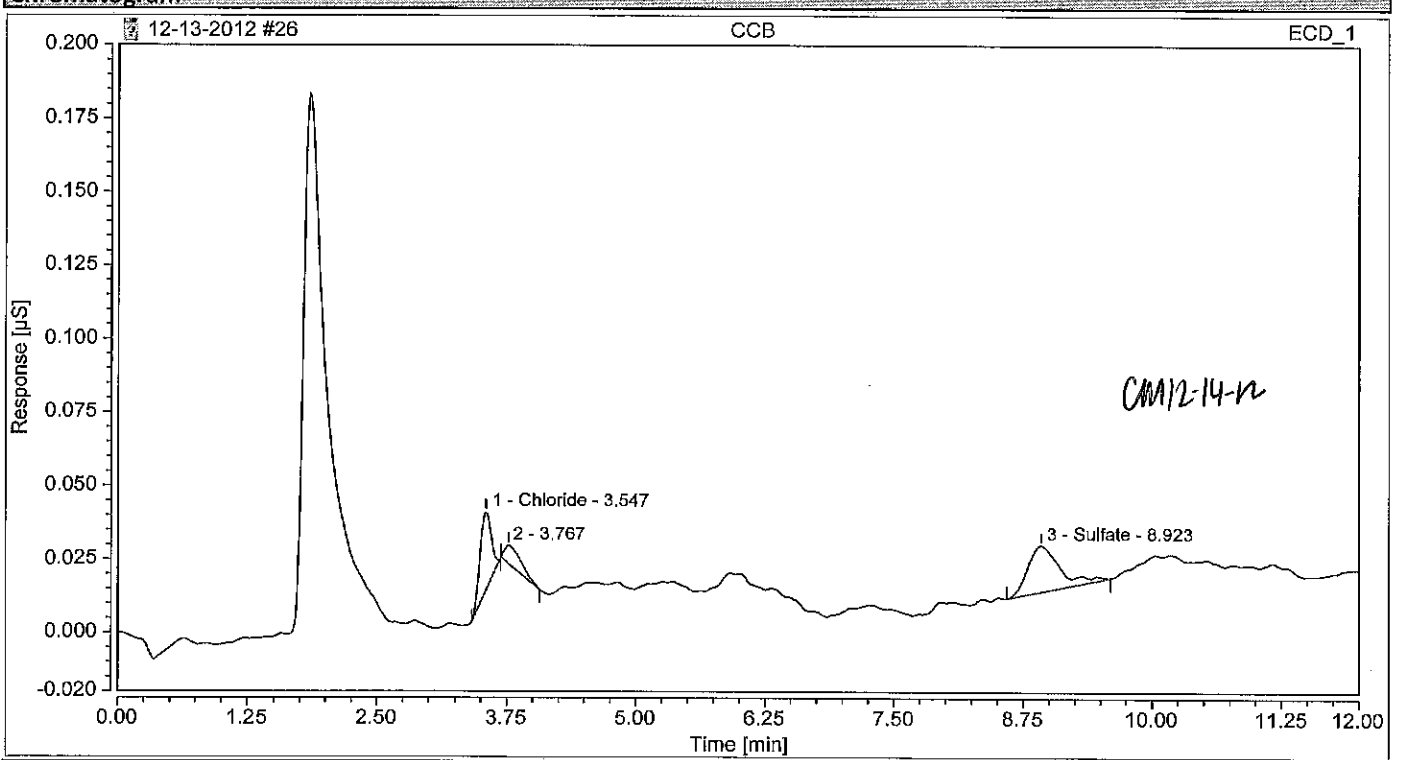
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.236	1.519	9.18	12.20	0.6423
2	Chloride	3.543	0.276	1.793	10.75	14.40	0.9853
3	Nitrite	4.137	0.606	3.458	23.57	27.75	0.9449
4	Bromide	5.217	0.108	0.550	4.20	4.42	0.9893
5	Nitrate	5.813	0.650	2.879	25.31	23.11	0.9768
6	Orthophosphate as P	7.460	0.191	0.606	7.45	4.87	0.9614
7	Sulfate	8.917	0.502	1.652	19.55	13.26	2.5622
Total:			**2.570**	**12.458**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 15:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

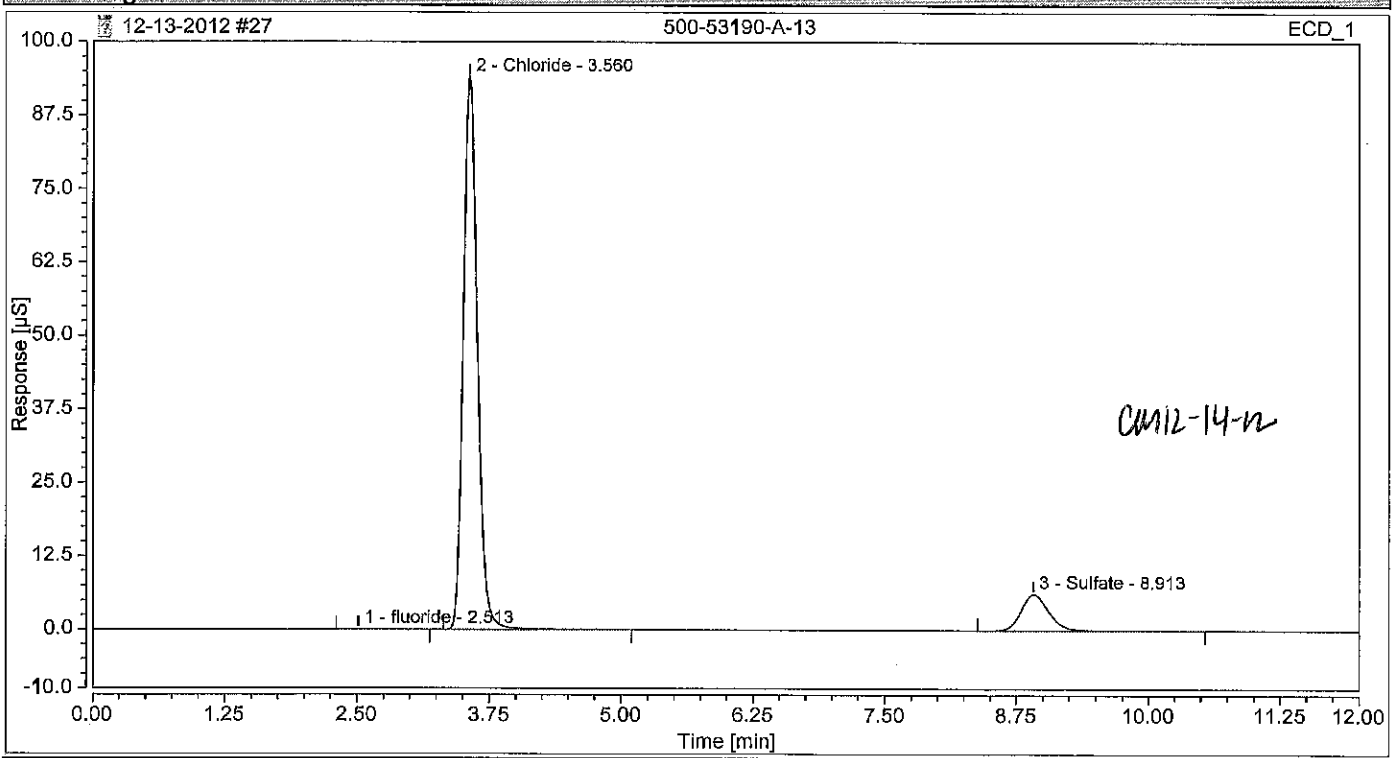
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.547	0.003	0.027	32.34	54.80	0.0117
2		3.767	0.001	0.006	12.23	12.80	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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.
3	Sulfate	8.923	0.006	0.016	55.42	32.40	0.0288
Total:			**0.010**	**0.049**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 15:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

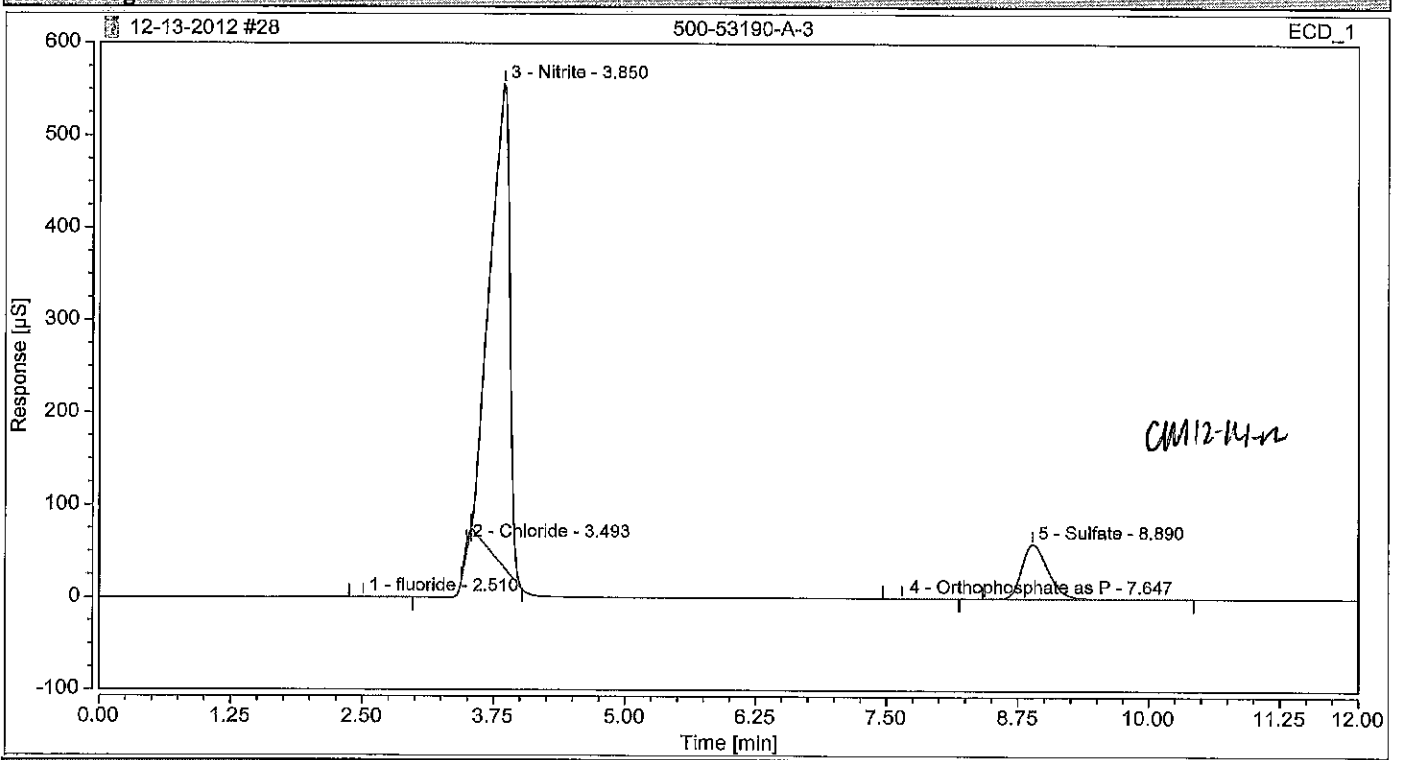
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.016	0.082	0.10	0.08	0.4399
2	Chloride OK	3.560	14.425	94.035	88.45	93.75	514.6743
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.913	1.868	6.191	11.45	6.17	95.2388
Total:			**16.309**	**100.308**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GB7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 15:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

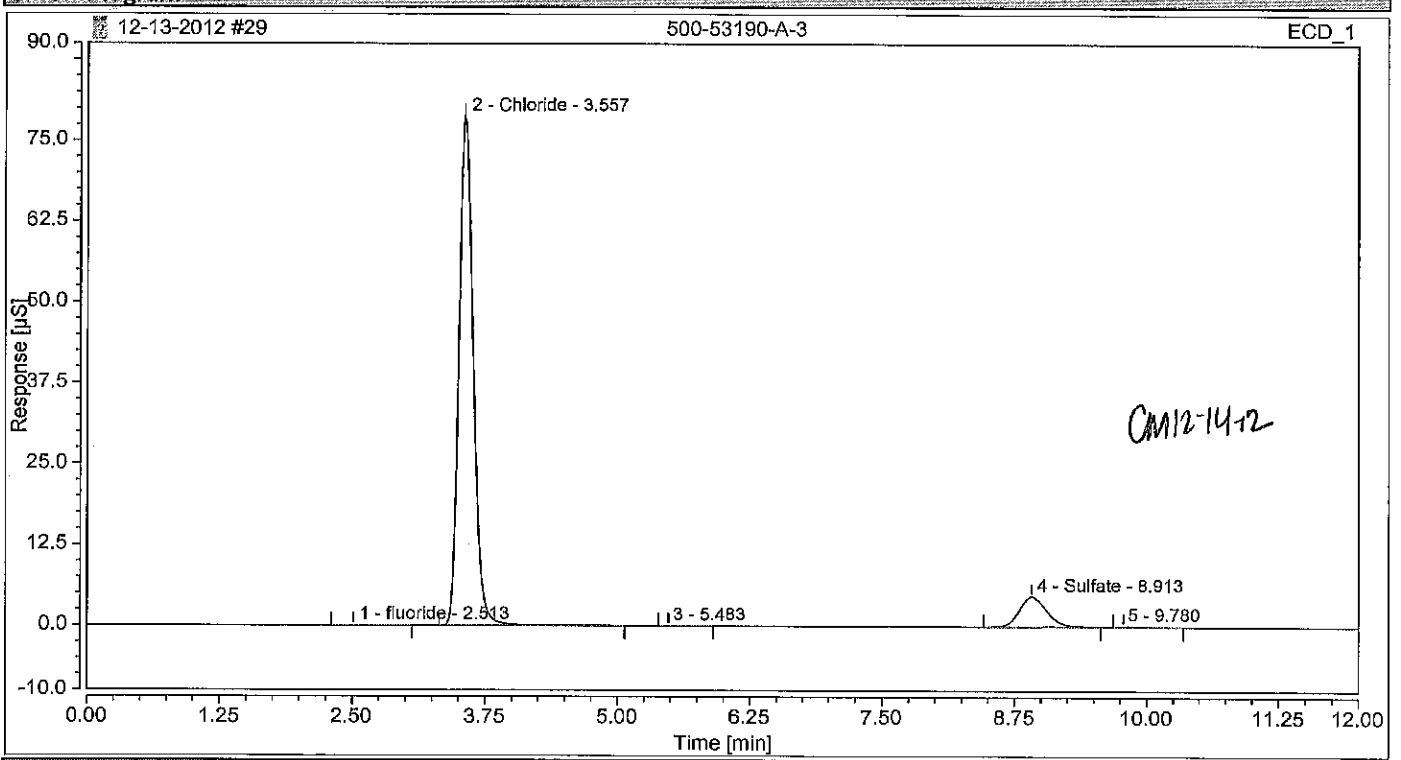
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.079	0.493	0.06	0.08	0.2142
2	Chloride 0 m	3.493	0.450	8.899	0.34	1.50	1.6066
3	Nitrite m	3.850	113.297	524.074	86.35	88.39	176.7687
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Orthophosphate as P m	7.647	0.071	0.200	0.05	0.03	0.3549
5	Sulfate 0 m	8.890	17.312	59.277	13.19	10.00	88.2818
Total:			**131.209**	**592.943**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GB8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 15:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

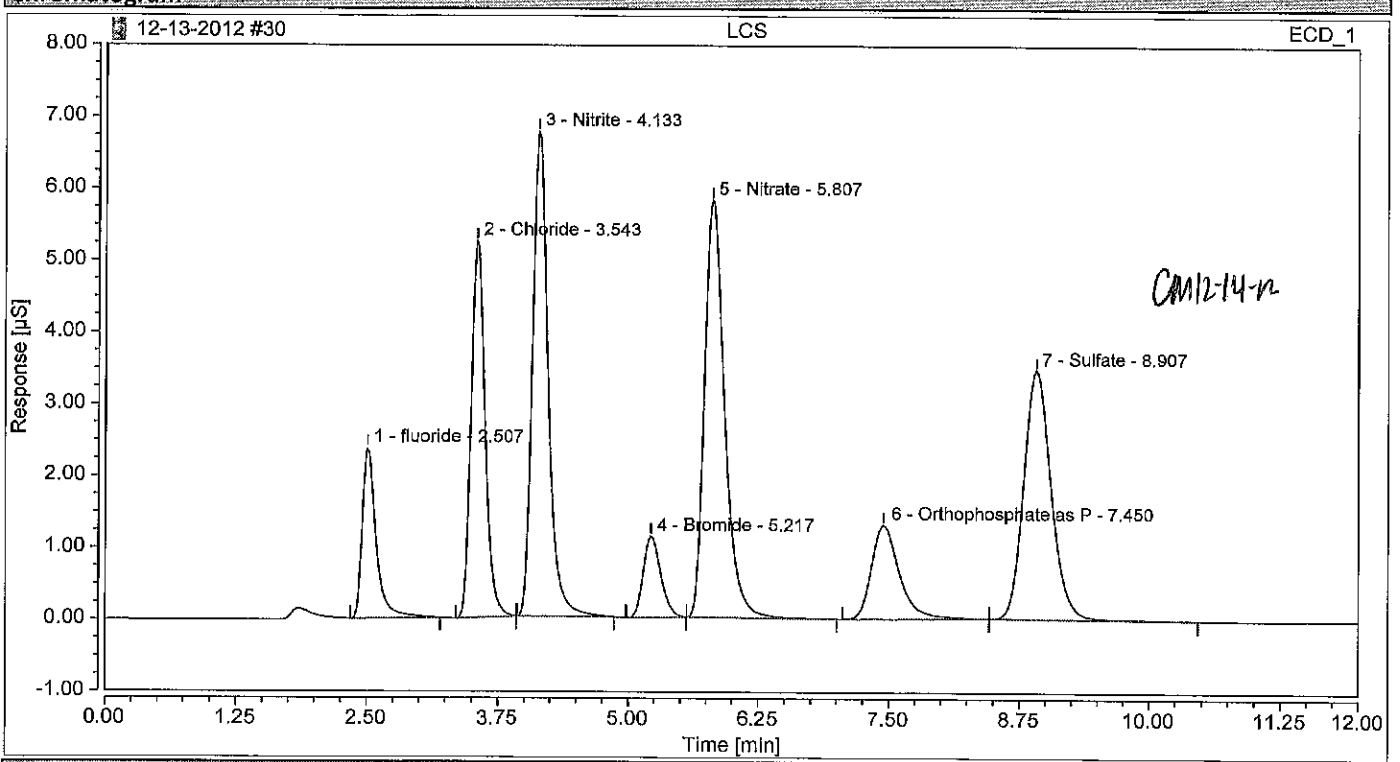
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.010	0.053	0.08	0.06	0.2790
2	Chloride	3.557	12.220	78.740	89.61	94.26	436.0096
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.483	0.003	0.018	0.03	0.02	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	8.913	1.391	4.635	10.20	5.55	70.9450
5		9.780	0.012	0.087	0.08	0.10	n.a.
Total:			**13.637**	**83.533**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**12.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

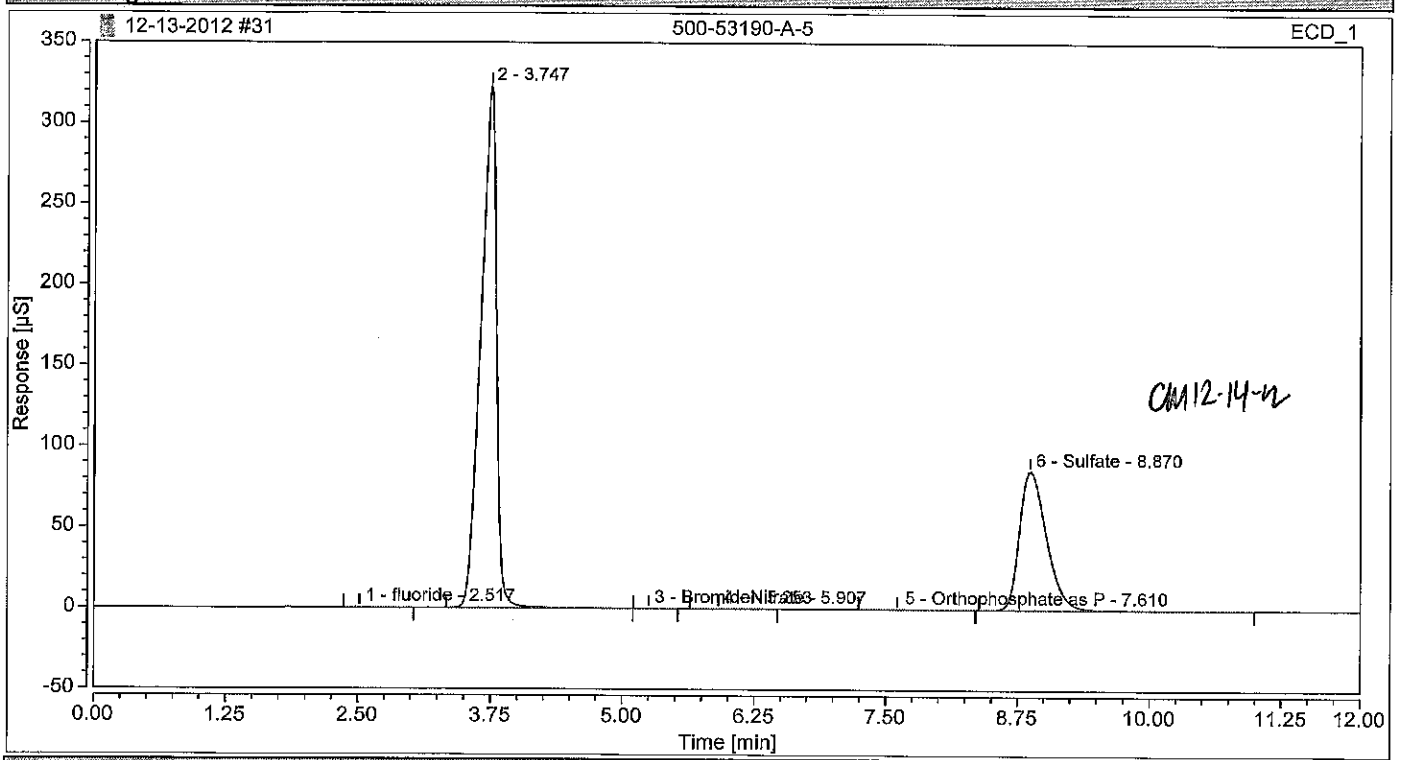
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.368	2.368	6.86	9.09	1.0011
2	Chloride	3.543	0.811	5.241	15.14	20.11	2.8950
3	Nitrite	4.133	1.184	6.751	22.09	25.90	1.8478
4	Bromide	5.217	0.221	1.128	4.12	4.33	2.0267
5	Nitrate	5.807	1.308	5.808	24.40	22.29	1.9641
6	Orthophosphate as P	7.450	0.409	1.307	7.63	5.01	2.0527
7	Sulfate	8.907	1.059	3.459	19.76	13.27	5.4021
Total:			**5.360**	**26.062**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

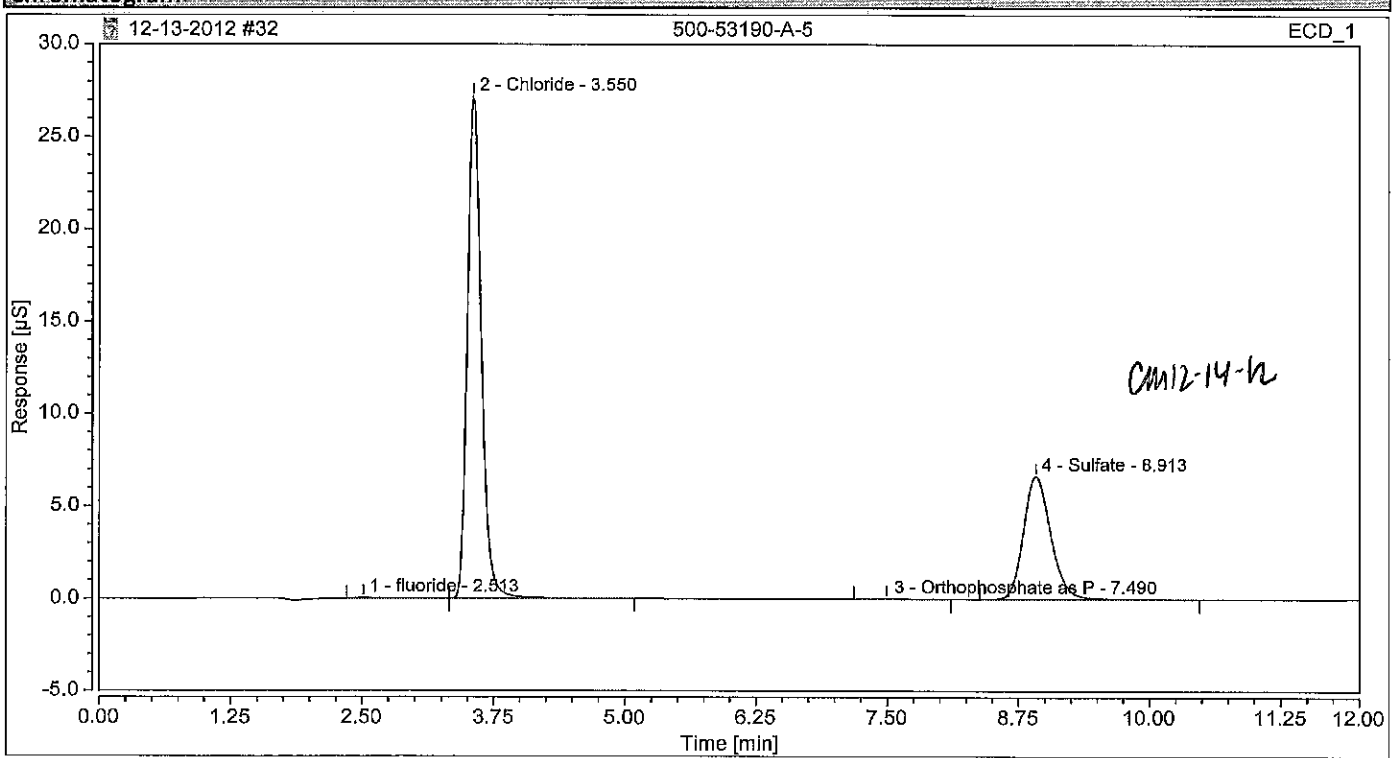
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.072	0.416	0.09	0.10	0.1950
n.a.	Chloride ok	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.747	54.575	322.890	67.86	78.89	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.253	0.007	0.040	0.01	0.01	0.0626
4	Nitrate	5.907	0.009	0.033	0.01	0.01	0.0138
5	Orthophosphate as P m	7.610	0.028	0.073	0.03	0.02	0.1390
6	Sulfate ok	8.870	25.733	85.856	32.00	20.98	131.2242
Total:			**80.424**	**409.307**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 16:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

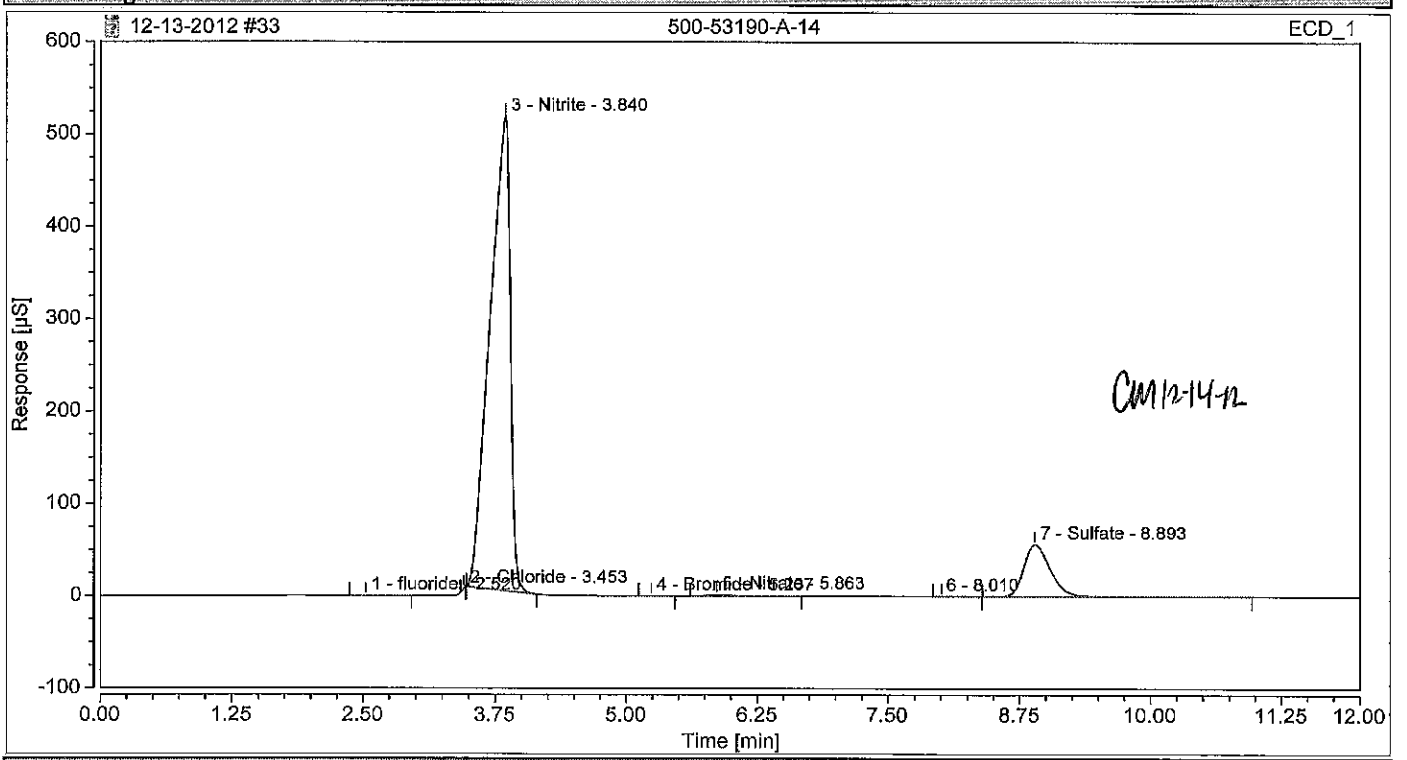
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.012	0.050	0.19	0.15	0.3199
2	Chloride	3.550	4.191	27.182	67.25	80.11	149.5359
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P	7.490	0.011	0.033	0.18	0.10	0.5657
4	Sulfate	8.913	2.018	6.664	32.38	19.64	102.8952
Total:			**6.232**	**33.929**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

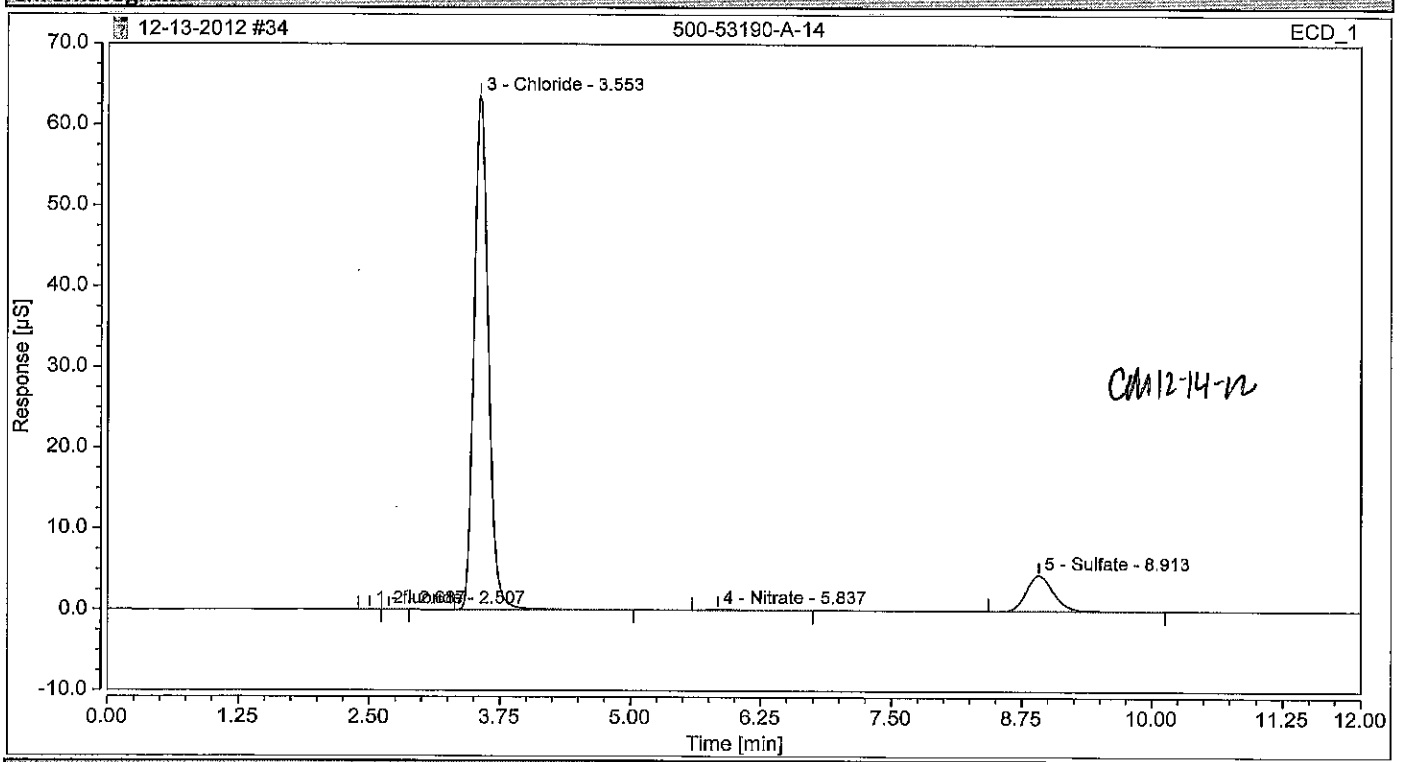
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.053	0.301	0.04	0.05	0.1434
2	Chloride OK	3.453	0.011	0.400	0.01	0.07	0.0407
3	Nitrite m	3.840	114.361	513.546	87.11	89.72	178.4286
4	Bromide m	5.237	0.006	0.035	0.00	0.01	0.0524
5	Nitrate	5.863	0.354	1.581	0.27	0.28	0.5323
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.010	0.006	0.031	0.00	0.01	n.a.
7	Sulfate OK	8.893	16.498	56.483	12.57	9.87	84.1310
Total:			**131.289**	**572.377**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 16:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

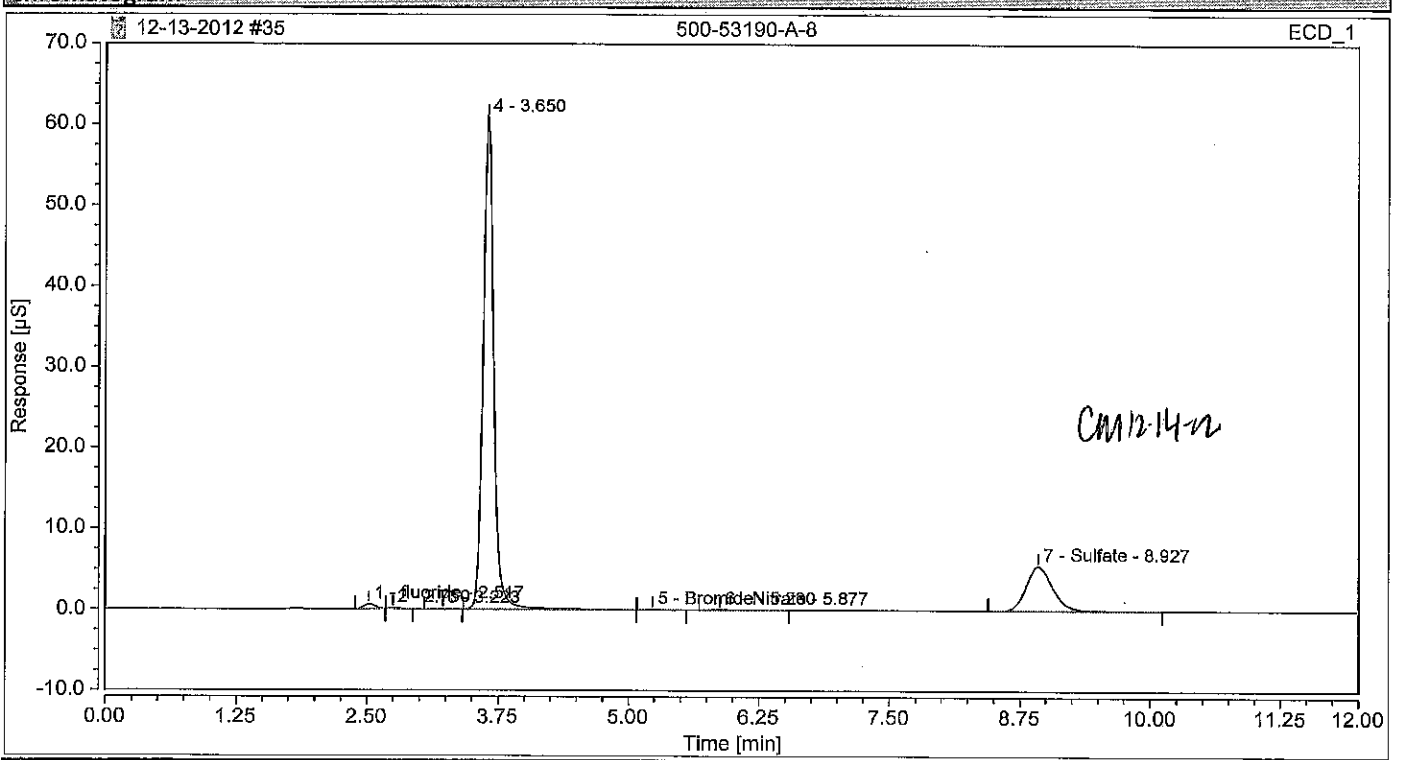
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.004	0.034	0.03	0.05	0.0989
2		2.687	0.001	0.012	0.01	0.02	n.a.
3	Chloride m	3.553	10.070	63.570	87.85	93.20	359.3000
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.837	0.038	0.148	0.33	0.22	0.5735
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.913	1.349	4.440	11.77	6.51	68.7919
Total:			**11.463**	**68.205**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-8**	*Run Time (min):*	**12.00**
Vial Number:	**GD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

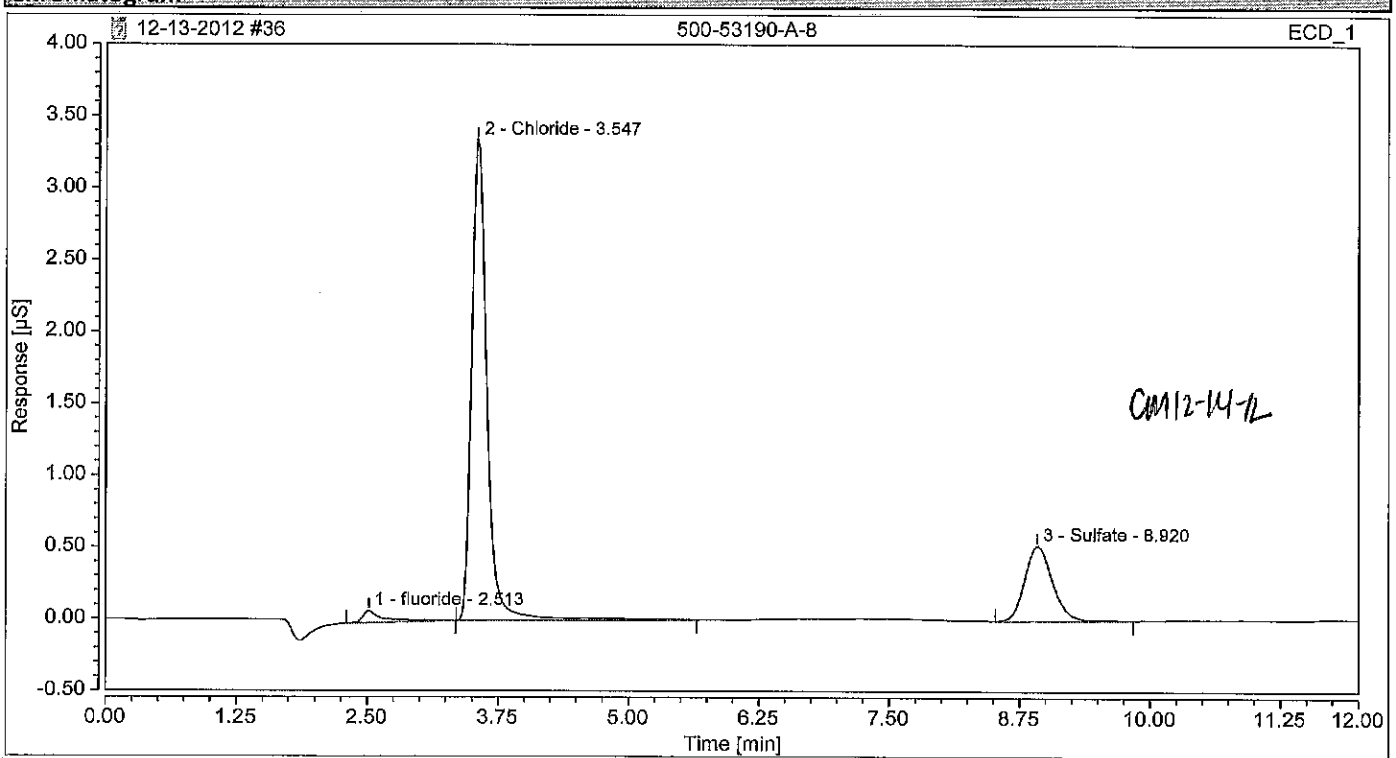
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.076	0.575	0.86	0.86	0.2057
2		2.750	0.007	0.055	0.08	0.08	n.a.
3		3.223	0.010	0.044	0.11	0.07	n.a.
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		3.650	7.070	60.885	80.15	90.71	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide m	5.230	0.004	0.018	0.04	0.03	0.0327
6	Nitrate	5.877	0.009	0.034	0.11	0.05	0.0142
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.927	1.646	5.510	18.66	8.21	8.3920
Total:			**8.822**	**67.123**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-8**	*Run Time (min):*	**12.00**
Vial Number:	**GD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 17:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

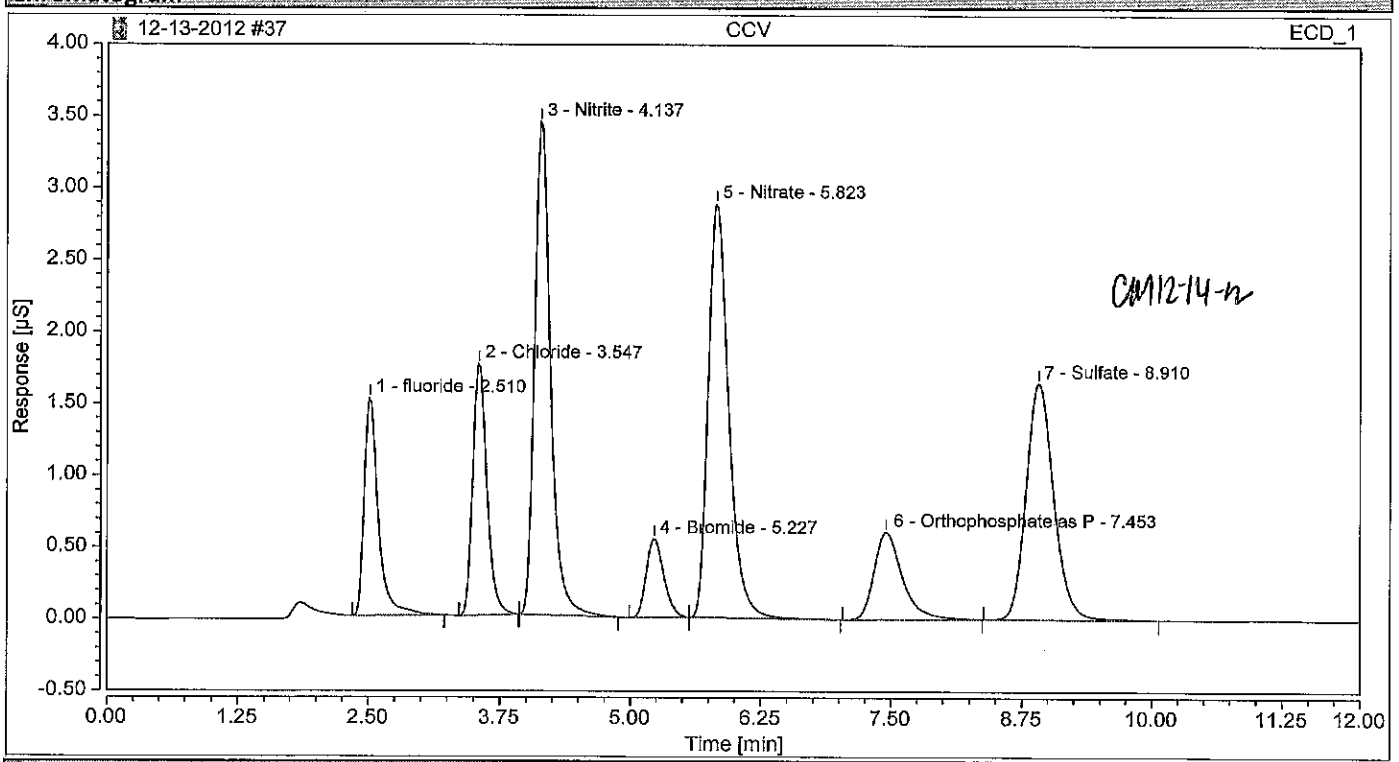
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.019	0.082	2.57	2.07	0.5239
2	Chloride	3.547	0.568	3.345	76.00	84.72	20.2755
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	8.920	0.160	0.521	21.42	13.20	8.1687
Total:			**0.748**	**3.948**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

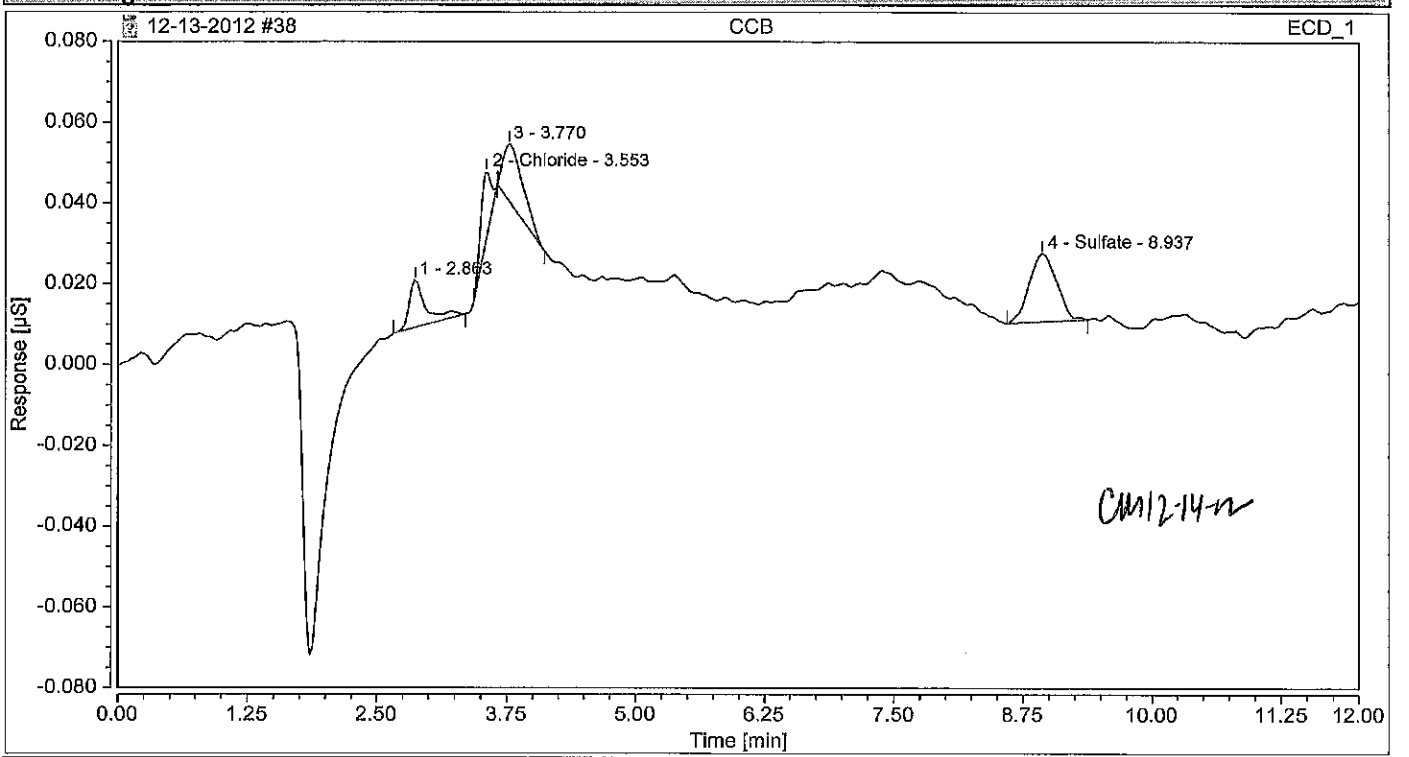
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.237	1.514	9.15	12.23	0.6449
2	Chloride	3.547	0.275	1.751	10.61	14.14	0.9803
3	Nitrite	4.137	0.610	3.435	23.55	27.73	0.9511
4	Bromide	5.227	0.109	0.550	4.19	4.44	0.9957
5	Nitrate	5.823	0.658	2.882	25.40	23.27	0.9874
6	Orthophosphate as P	7.453	0.193	0.608	7.47	4.91	0.9714
7	Sulfate	8.910	0.508	1.645	19.63	13.28	2.5912
Total:			**2.589**	**12.385**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

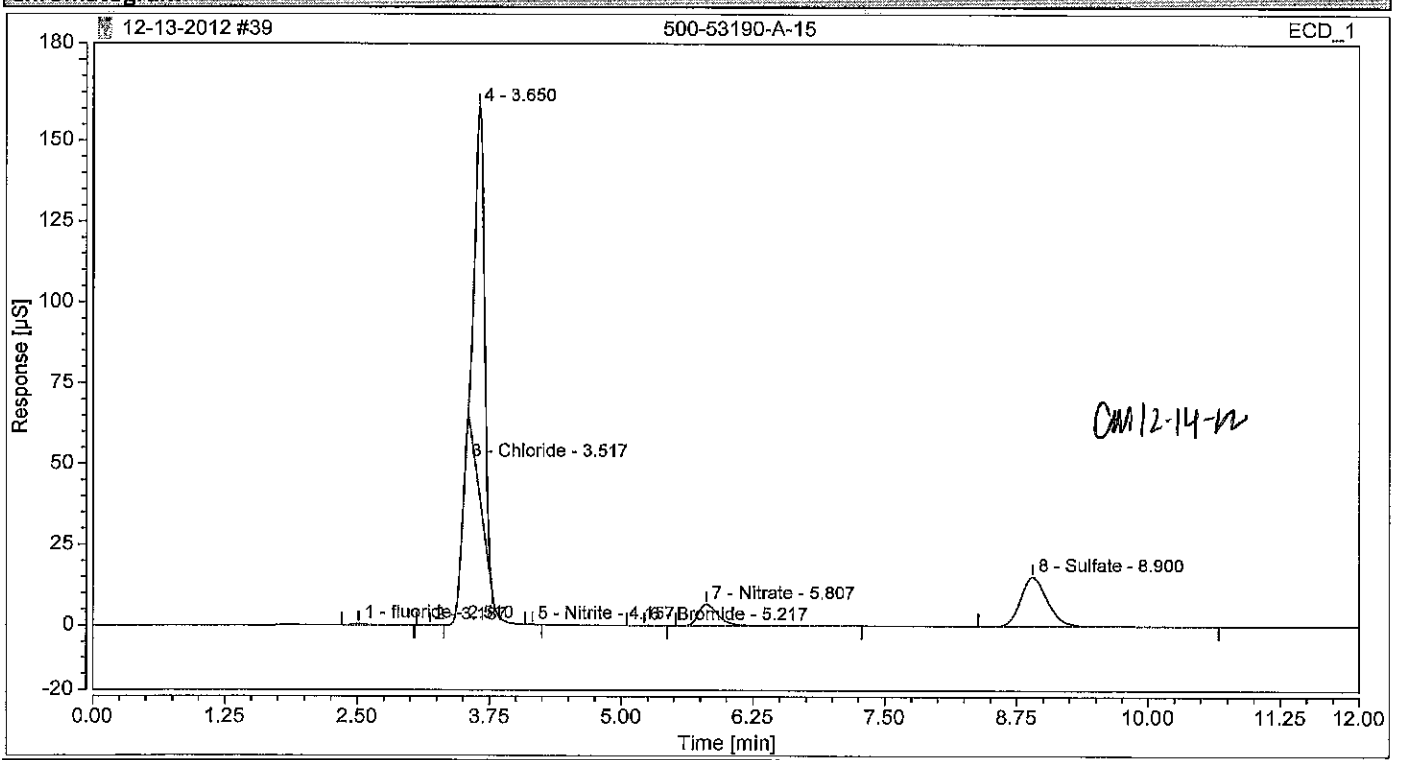
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.863	0.002	0.012	17.21	19.88	n.a.
2	Chloride	3.553	0.002	0.016	14.78	27.38	0.0066
3		3.770	0.003	0.014	26.60	24.12	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	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.
4	Sulfate	8.937	0.005	0.017	41.41	28.62	0.0266
Total:			**0.013**	**0.059**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-15**	*Run Time (min):*	**12.00**
Vial Number:	**GD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

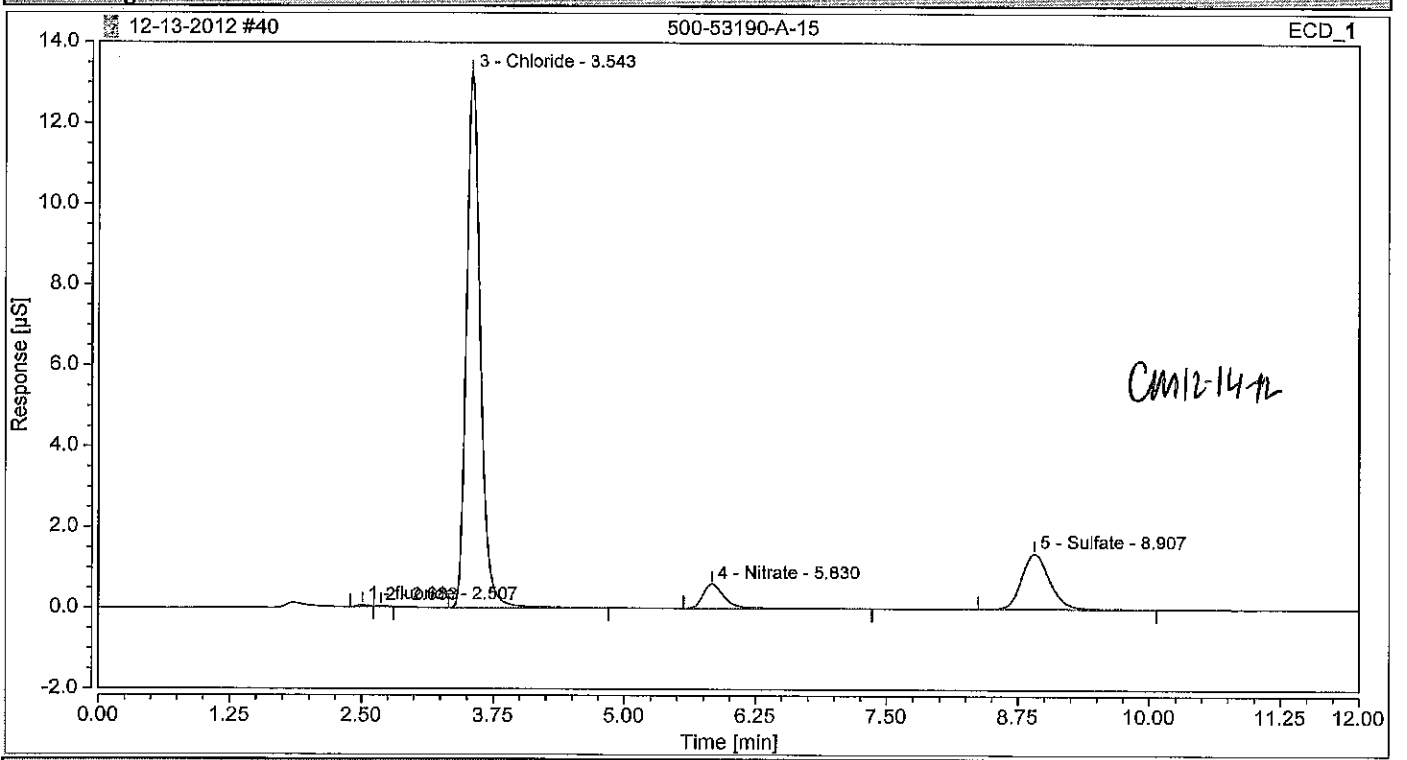
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.073	0.438	0.39	0.30	0.1983
2		3.187	0.002	0.012	0.01	0.01	n.a.
3	Chloride	3.517	0.050	1.354	0.27	0.94	0.1781
4		3.650	12.667	120.021	67.36	83.47	n.a.
5	Nitrite	4.157	0.001	0.016	0.01	0.01	0.0021
6	Bromide	5.217	0.002	0.012	0.01	0.01	0.0189
7	Nitrate	5.807	1.492	6.659	7.93	4.63	2.2403
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	8.900	4.517	15.277	24.02	10.62	23.0349
Total:			**18.804**	**143.789**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-15**	*Run Time (min):*	**12.00**
Vial Number:	**GD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 18:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

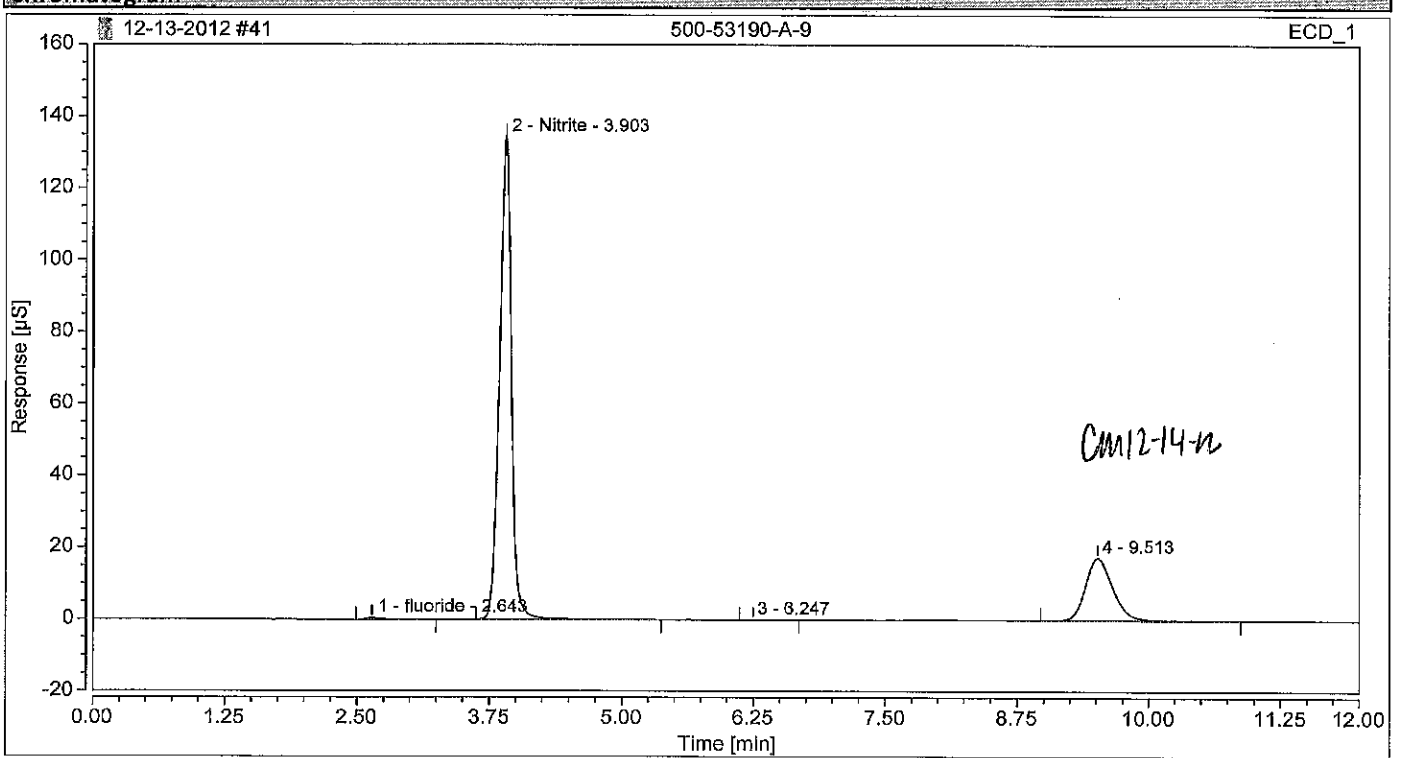
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.004	0.035	0.14	0.23	0.1016
2		2.683	0.001	0.014	0.06	0.09	n.a.
3	Chloride	3.543	2.032	13.238	77.82	86.73	72.5068
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.830	0.148	0.605	5.65	3.96	2.2165
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.907	0.427	1.370	16.34	8.98	21.7545
Total:			**2.612**	**15.262**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-9**	*Run Time (min):*	**12.00**
Vial Number:	**GD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

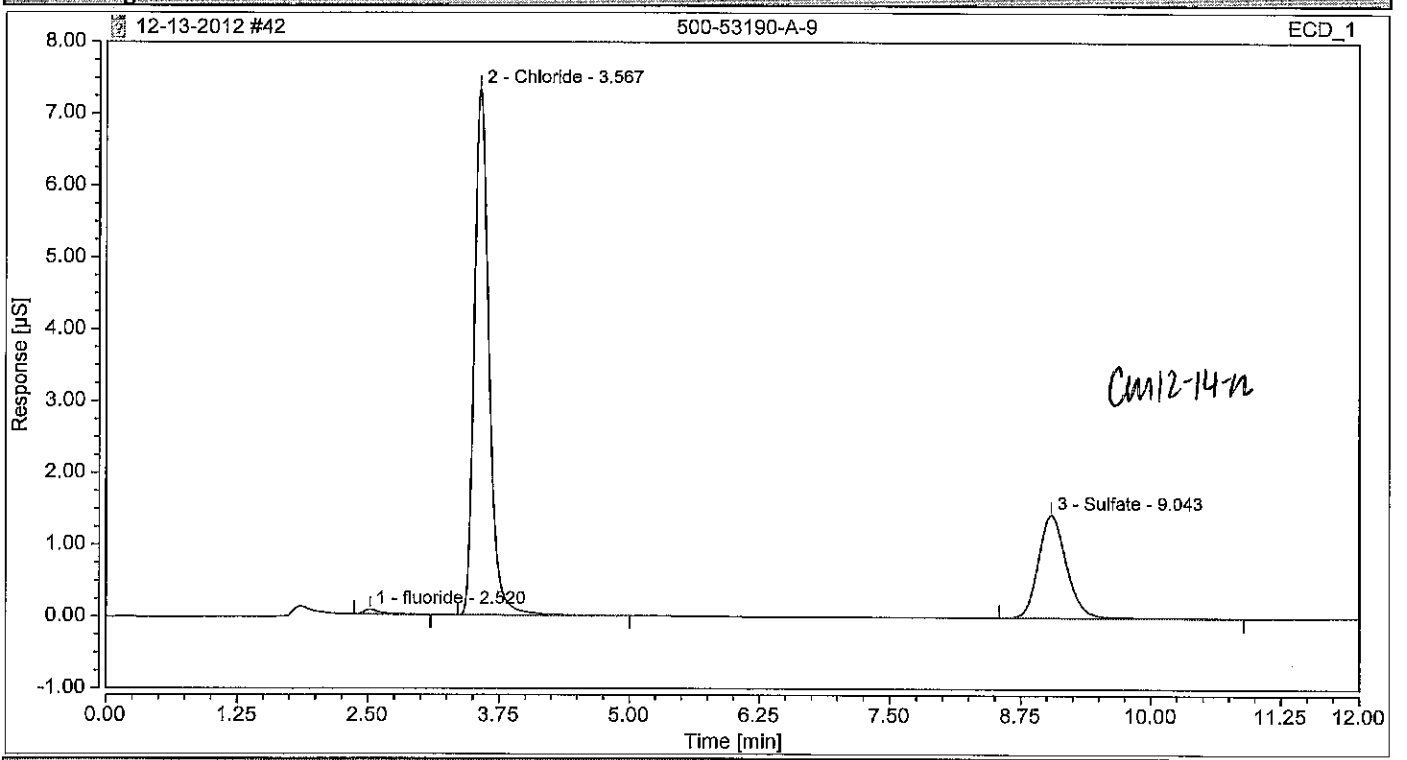
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.643	0.102	0.521	0.44	0.34	0.2777
n.a.	Chloride 0k	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrite m	3.903	17.787	134.363	76.88	88.21	27.7515
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		6.247	0.011	0.044	0.05	0.03	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate 0k	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		9.513	5.236	17.397	22.63	11.42	n.a.
Total:			**23.136**	**152.325**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-9**	*Run Time (min):*	**12.00**
Vial Number:	**GD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 18:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

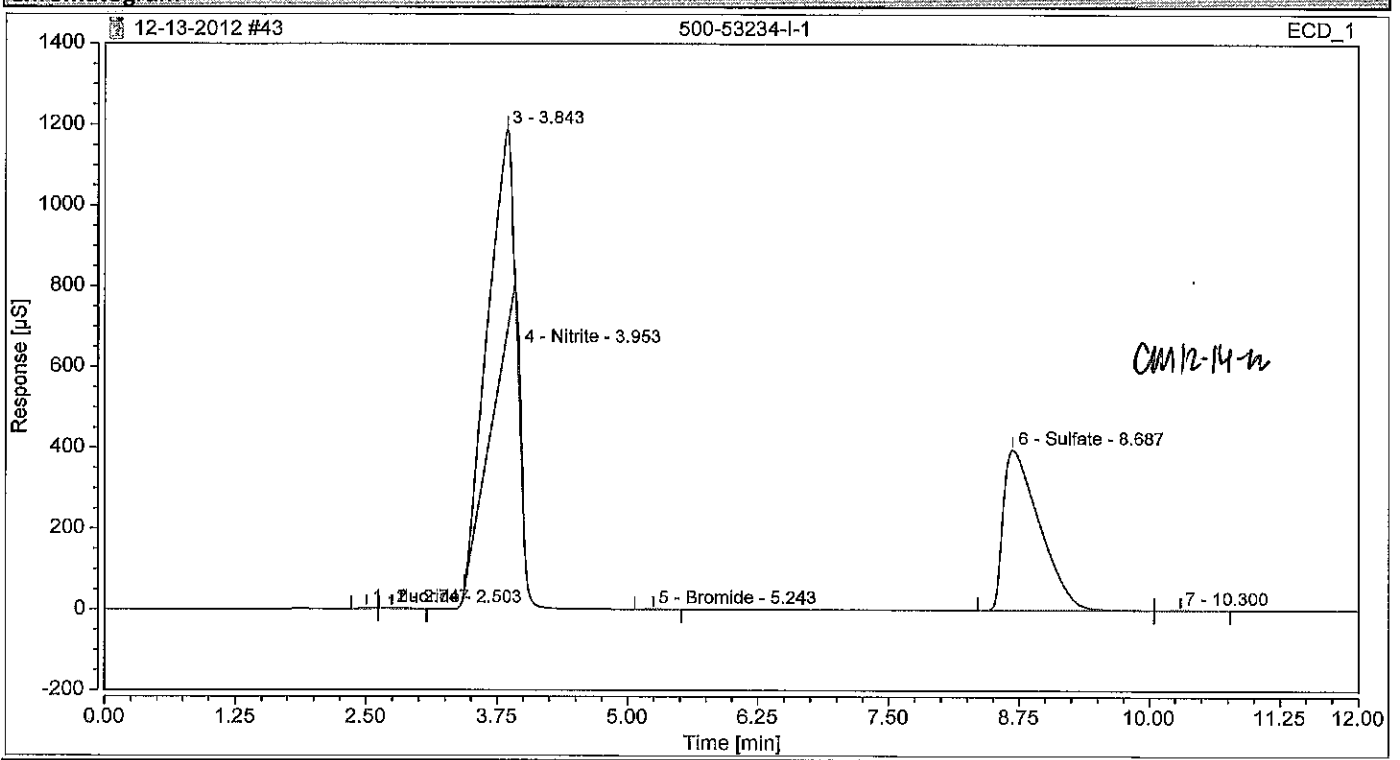
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.011	0.062	0.67	0.71	0.3022
2	Chloride	3.567	1.203	7.332	72.20	83.10	42.9267
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	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	9.043	0.452	1.429	27.14	16.20	23.0624
Total:			**1.666**	**8.823**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-1**	*Run Time (min):*	**12.00**
Vial Number:	**GE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

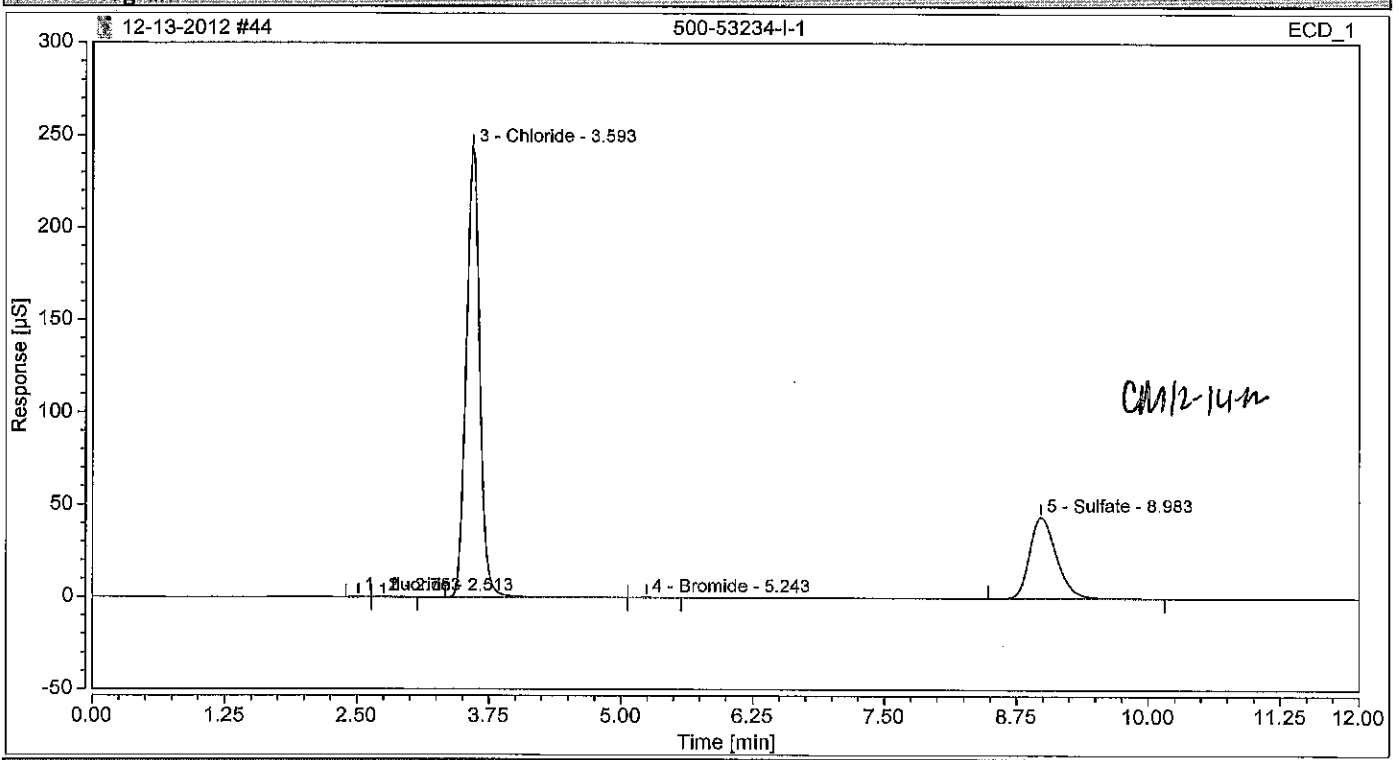
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.503	0.187	1.377	0.06	0.14	0.5099
2		2.747	0.415	2.023	0.14	0.20	n.a.
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.843	133.220	494.225	44.61	49.78	n.a.
4	Nitrite m	3.953	4.499	97.553	1.51	9.83	7.0194
5	Bromide m	5.243	0.129	0.715	0.04	0.07	1.1791
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	8.687	160.090	396.671	53.61	39.95	816.3665
7		10.300	0.097	0.300	0.03	0.03	n.a.
Total:			**298.637**	**992.865**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-1**	*Run Time (min):*	**12.00**
Vial Number:	**GE2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 19:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

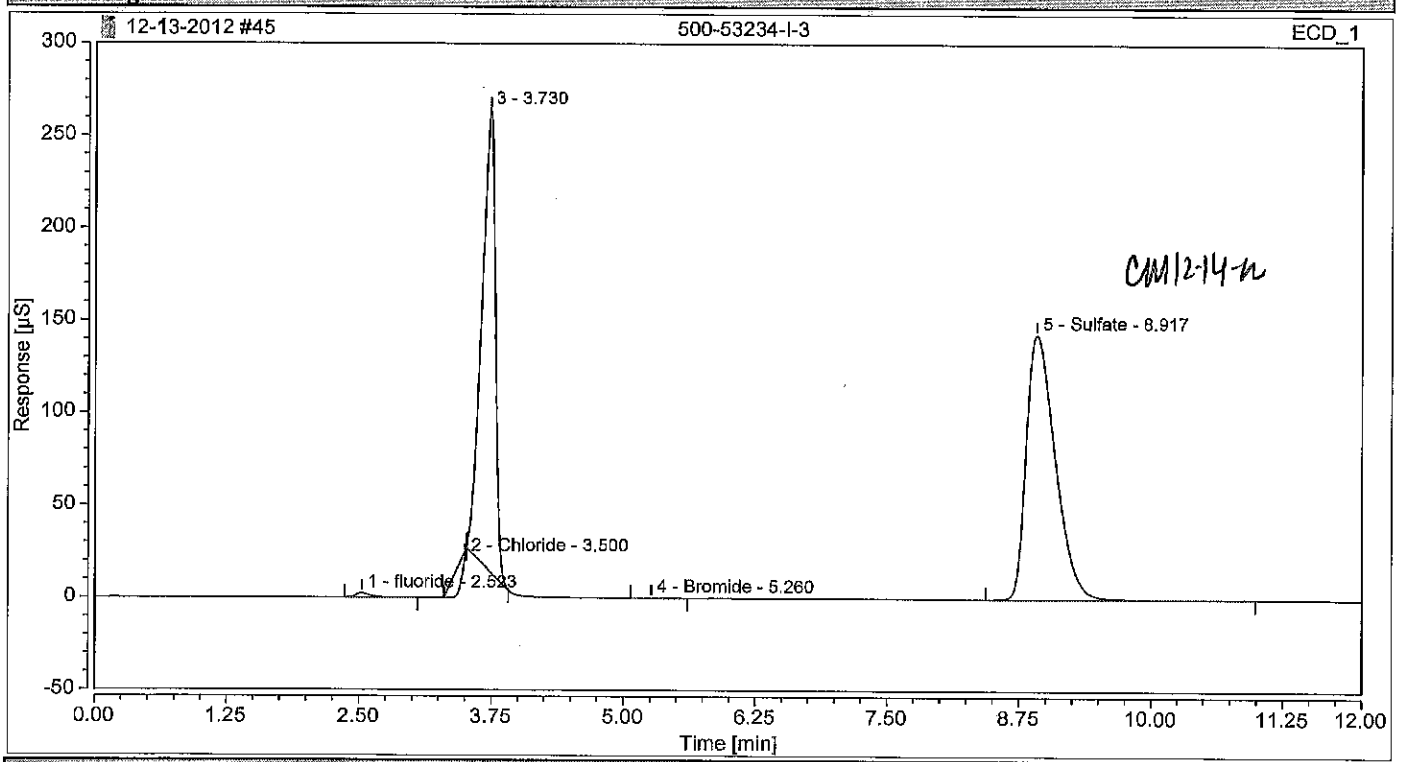
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.030	0.258	0.06	0.09	0.8215
2		2.753	0.050	0.306	0.10	0.11	n.a.
3	Chloride	3.593	36.233	243.542	73.32	84.51	1292.7405
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.243	0.012	0.066	0.02	0.02	1.1130
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	8.983	13.090	44.019	26.49	15.27	667.5275
Total:			**49.415**	**288.190**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-3**	*Run Time (min):*	**12.00**
Vial Number:	**GE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 19:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

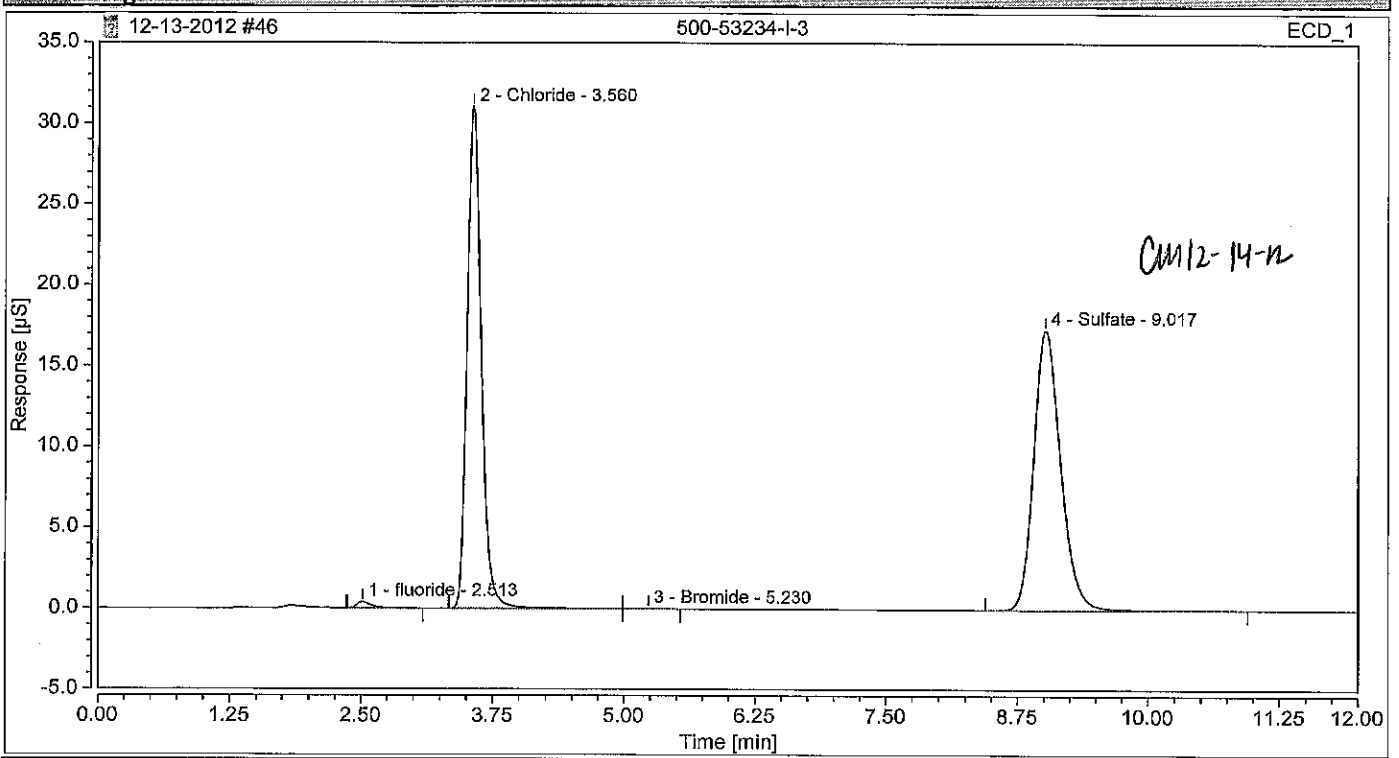
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride M	2.523	0.366	2.352	0.43	0.59	0.9963
2	Chloride OK	3.500	1.751	3.176	2.06	0.80	6.2483
3		3.730	37.193	249.601	43.82	62.64	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide M	5.260	0.031	0.166	0.04	0.04	0.2860
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate OK	8.917	45.527	143.150	53.64	35.93	232.1592
Total:			**84.868**	**398.446**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-3**	*Run Time (min):*	**12.00**
Vial Number:	**GE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 19:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

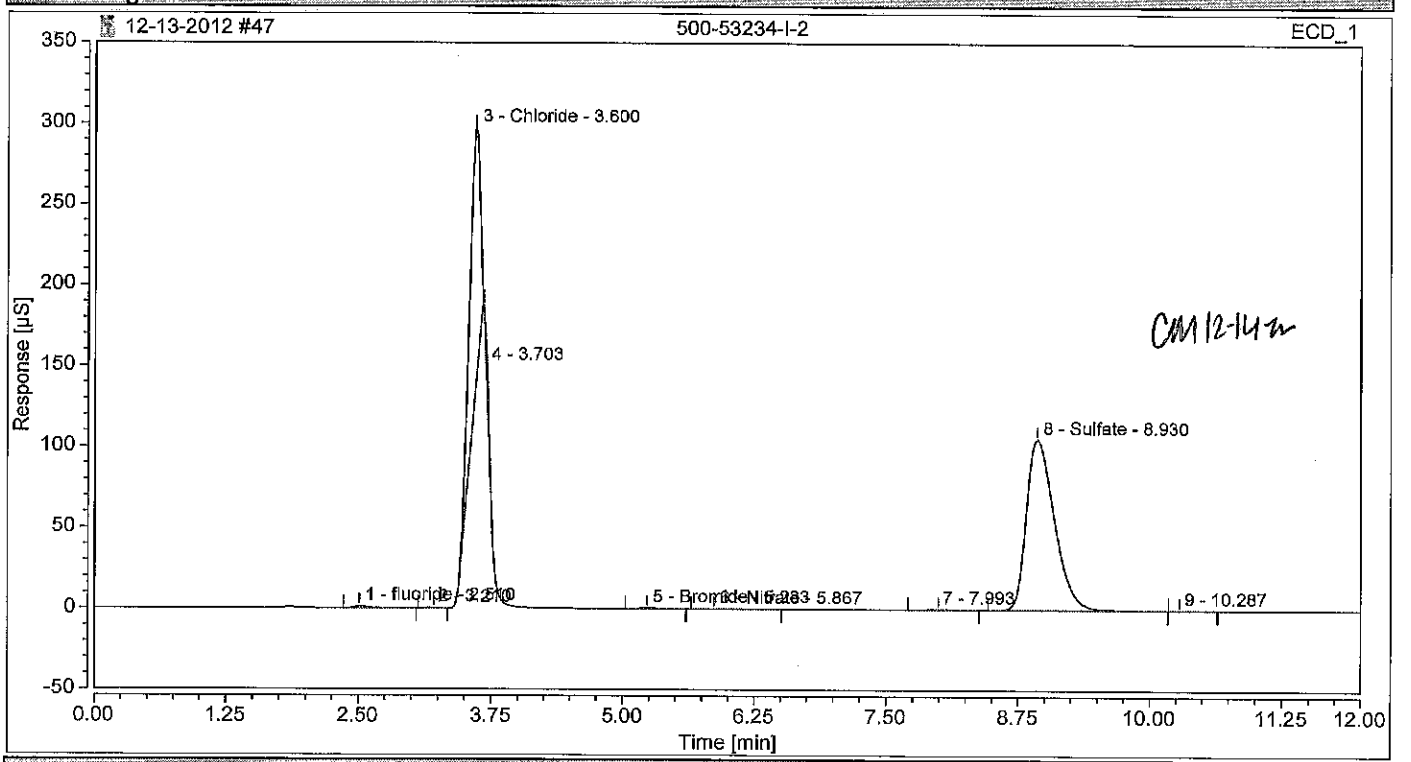
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.060	0.386	0.60	0.79	1.6331
2	Chloride DK	3.560	4.791	31.025	47.57	63.60	170.9220
n.a.	Nitrite KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.230	0.004	0.022	0.04	0.05	0.3890
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as Pm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate DK	9.017	5.215	17.346	51.79	35.56	265.9295
Total:			**10.070**	**48.779**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-2**	*Run Time (min):*	**12.00**
Vial Number:	**GE5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 19:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

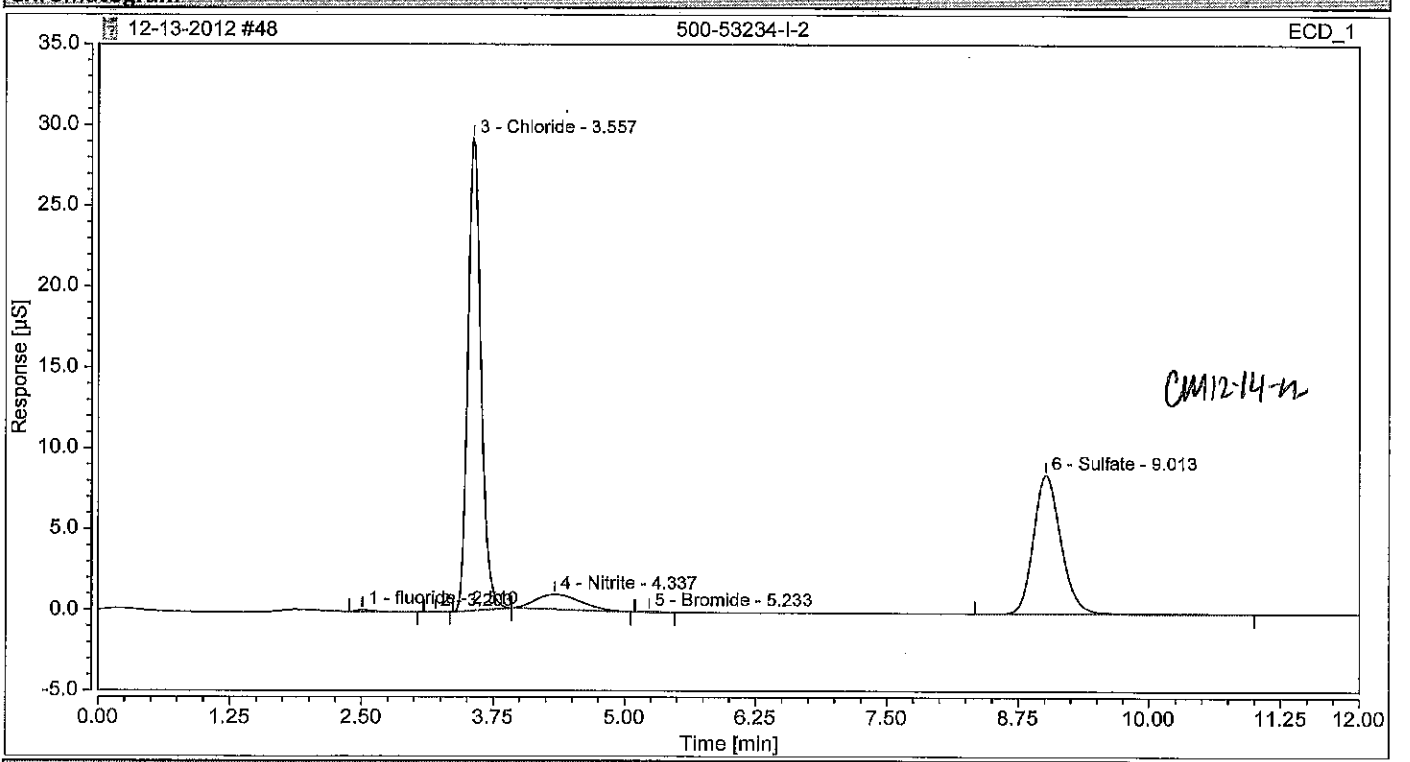
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.206	1.271	0.40	0.45	0.5624
2		3.210	0.025	0.184	0.05	0.06	n.a.
3	Chloride ok	3.600	18.092	159.445	34.87	56.28	64.5505
4		3.703	0.704	16.127	1.36	5.69	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide m	5.233	0.092	0.471	0.18	0.17	0.8440
6	Nitrate	5.867	0.019	0.077	0.04	0.03	0.0289
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		7.993	0.068	0.260	0.13	0.09	n.a.
8	Sulfate ok	8.930	32.677	105.462	62.97	37.22	166.6336
9		10.287	0.005	0.016	0.01	0.01	n.a.
Total:			**51.890**	**283.313**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-2**	*Run Time (min):*	**12.00**
Vial Number:	**GE6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 20:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

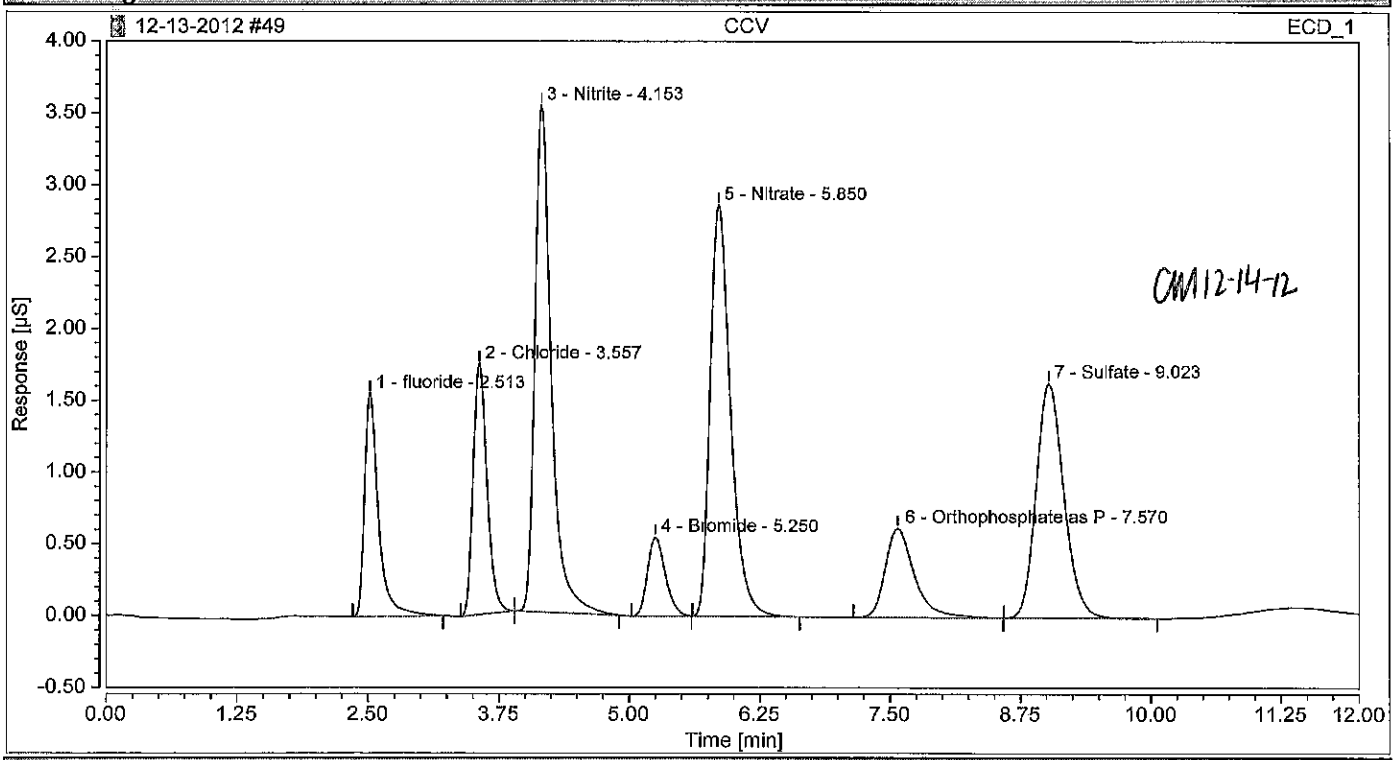
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride VM	2.510	0.019	0.129	0.26	0.33	0.5247
2		3.203	0.002	0.019	0.03	0.05	n.a.
3	Chloride DK	3.557	4.238	29.223	57.62	75.09	151.2043
4	Nitrite KK	4.337	0.460	0.924	6.26	2.37	7.1814
5	Bromide VM	5.233	0.006	0.036	0.08	0.09	0.5589
n.a.	Nitrate KS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P VM	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate DA	9.013	2.629	8.584	35.74	22.06	134.0675
Total:			**7.355**	**38.915**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

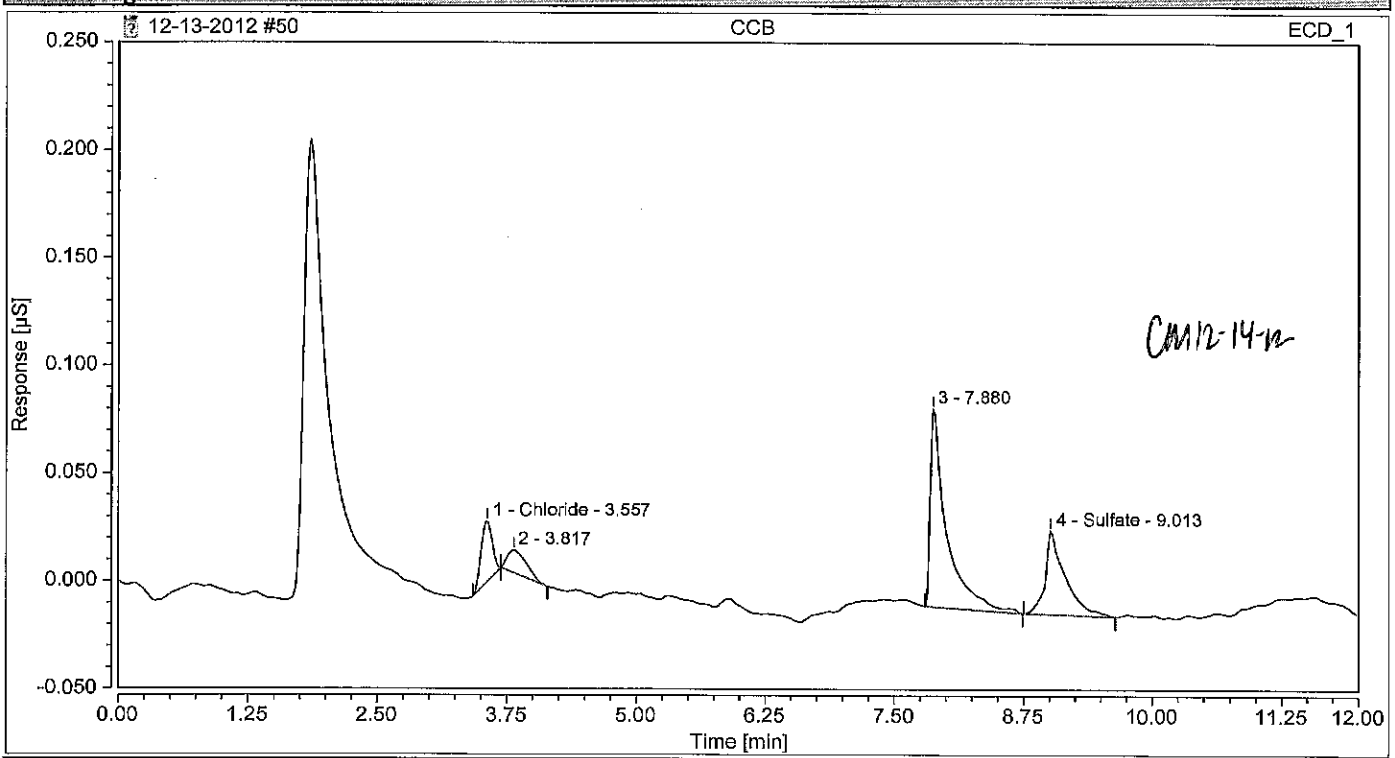
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.550	9.14	12.41	0.6539
2	Chloride	3.557	0.269	1.745	10.23	13.98	0.9589
3	Nitrite	4.153	0.652	3.527	24.82	28.25	1.0175
4	Bromide	5.250	0.108	0.547	4.12	4.38	0.9926
5	Nitrate	5.850	0.653	2.860	24.84	22.91	0.9802
6	Orthophosphate as P	7.570	0.201	0.622	7.63	4.98	1.0069
7	Sulfate	9.023	0.505	1.634	19.22	13.09	2.5749
Total:			**2.627**	**12.484**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

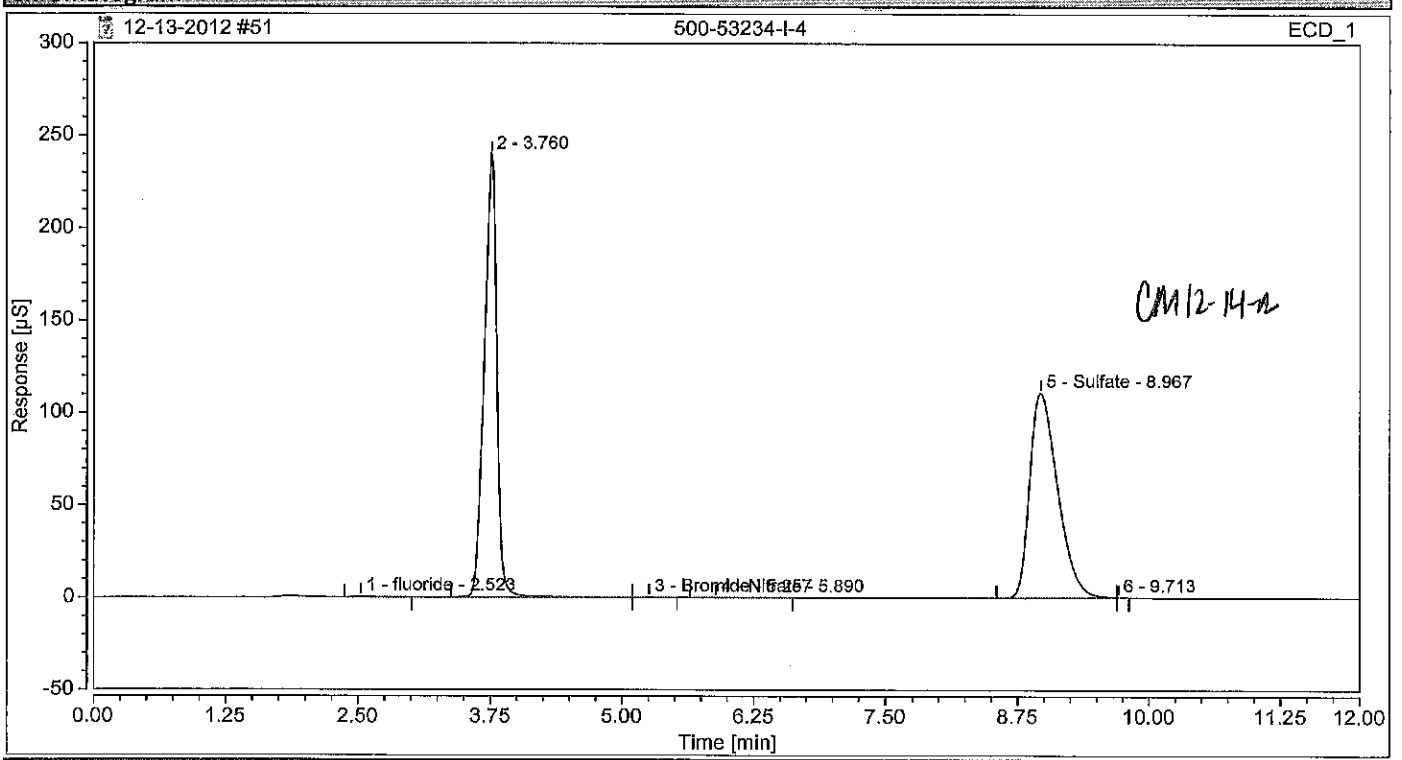
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.003	0.028	11.17	16.61	0.0124
2		3.817	0.002	0.010	7.36	6.20	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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.
3		7.880	0.017	0.092	53.45	54.31	n.a.
4	Sulfate	9.013	0.009	0.039	28.01	22.87	0.0446
Total:			**0.031**	**0.169**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-4**	*Run Time (min):*	**12.00**
Vial Number:	**GE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

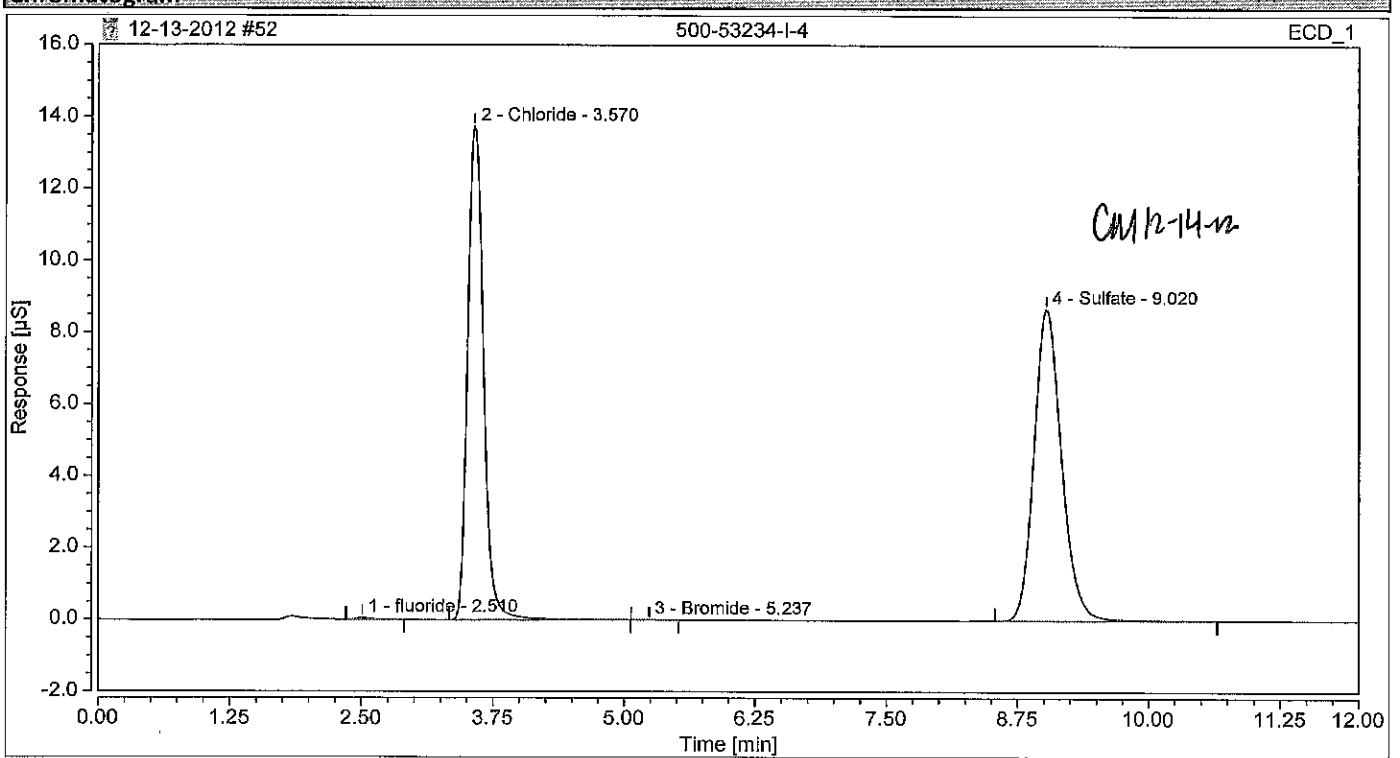
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.523	0.072	0.395	0.11	0.11	0.1967
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.760	32.821	239.631	48.89	68.25	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.257	0.013	0.074	0.02	0.02	0.1211
4	Nitrate	5.890	0.022	0.081	0.03	0.02	0.0329
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.967	34.199	110.877	50.94	31.58	174.3952
6		9.713	0.002	0.027	0.00	0.01	n.a.
Total:			**67.130**	**351.085**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-4**	*Run Time (min):*	**12.00**
Vial Number:	**GE8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 20:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

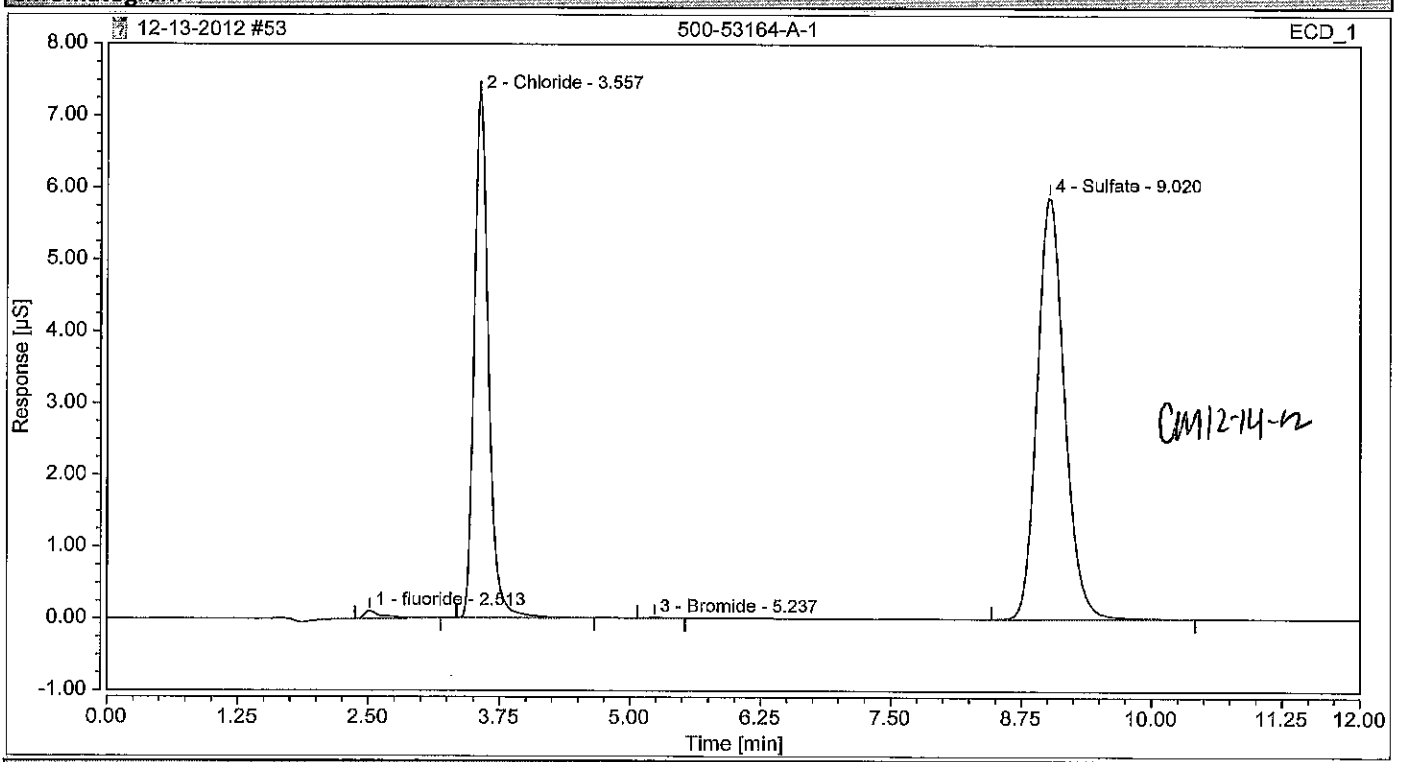
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.008	0.054	0.17	0.24	0.2296
2	Chloride	3.570	2.395	13.744	47.43	61.12	85.4462
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.237	0.001	0.008	0.03	0.04	0.1333
n.a.	Nitrate	n.a.	n.a.	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	9.020	2.644	8.680	52.37	38.60	134.8356
Total:			**5.049**	**22.485**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**13/Dec/12 21:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

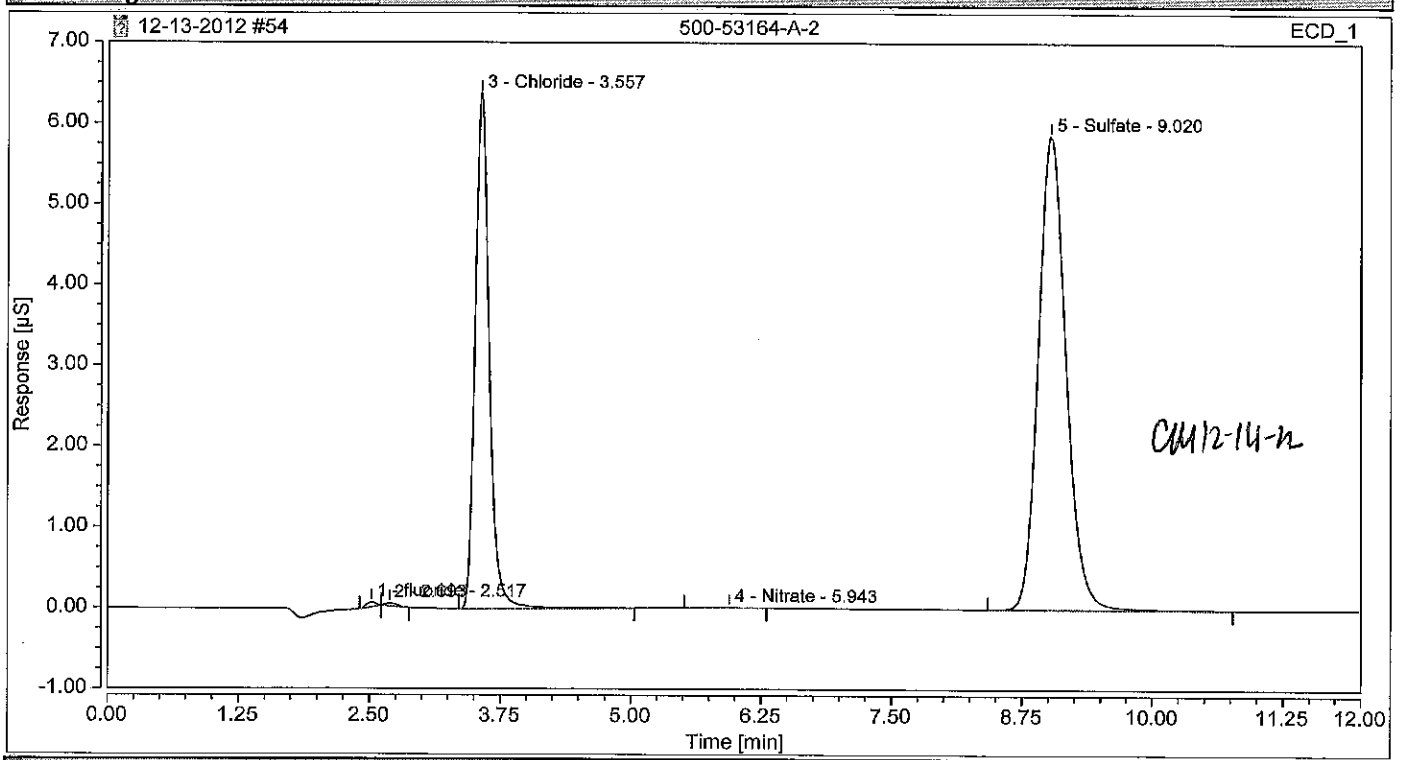
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoridem	2.513	0.023	0.110	0.76	0.82	1.2337
2	Chloride	3.557	1.159	7.294	38.90	54.89	82.7369
n.a.	Nitrite kt	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromidem	5.237	0.001	0.007	0.05	0.06	0.2529
n.a.	Nitratekt	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as Pm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	1.797	5.876	60.29	44.22	183.2868
Total:			**2.981**	**13.287**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 21:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

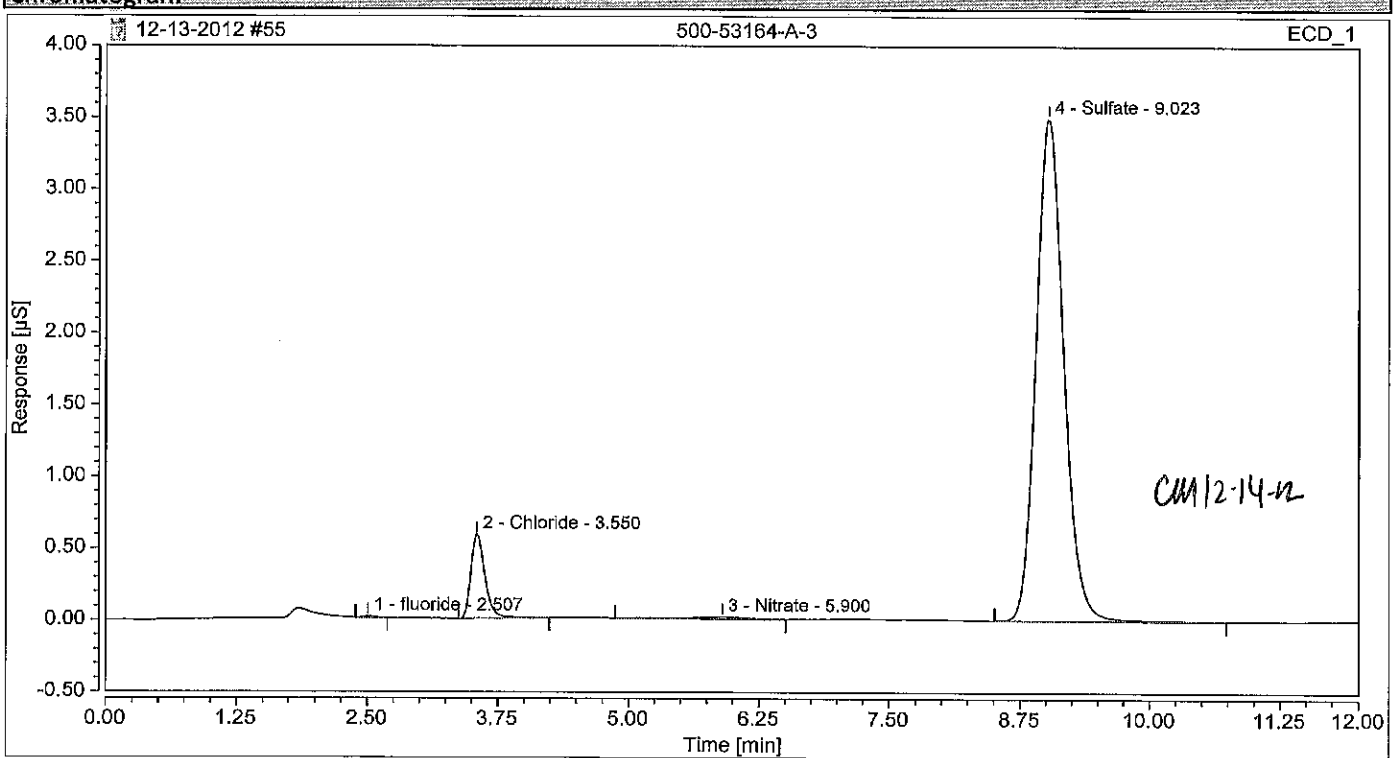
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.006	0.058	0.21	0.47	0.4088
2		2.693	0.005	0.036	0.16	0.29	n.a.
3	Chloride	3.557	1.000	6.376	35.57	51.68	89.1538
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.943	0.002	0.005	0.06	0.04	0.0595
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.020	1.798	5.863	64.00	47.51	229.2580
Total:			**2.810**	**12.339**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 21:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

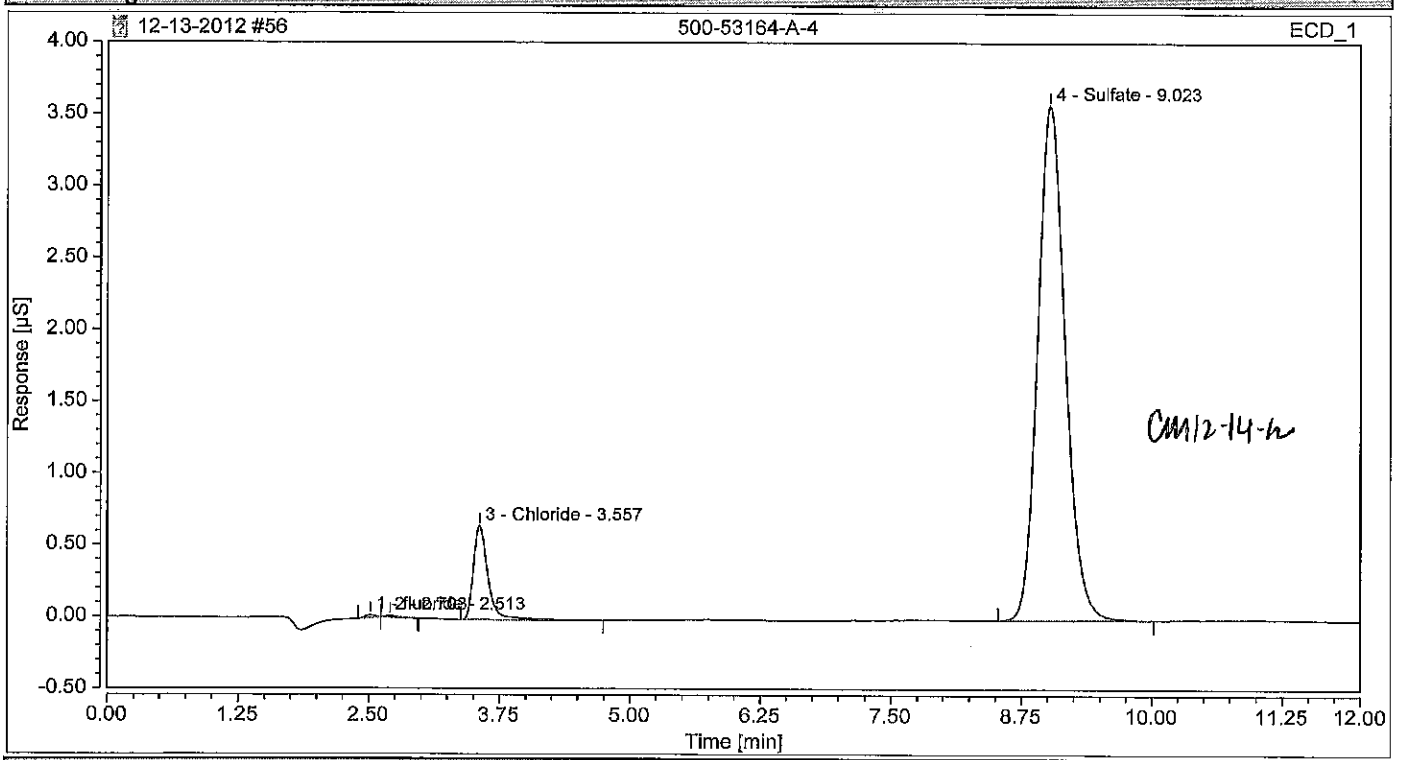
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.001	0.011	0.12	0.26	0.3846
2	Chloride m	3.550	0.091	0.584	7.72	14.23	32.5491
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.900	0.008	0.014	0.69	0.34	1.2208
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.080	3.496	91.47	85.17	550.8460
Total:			**1.181**	**4.105**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 21:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

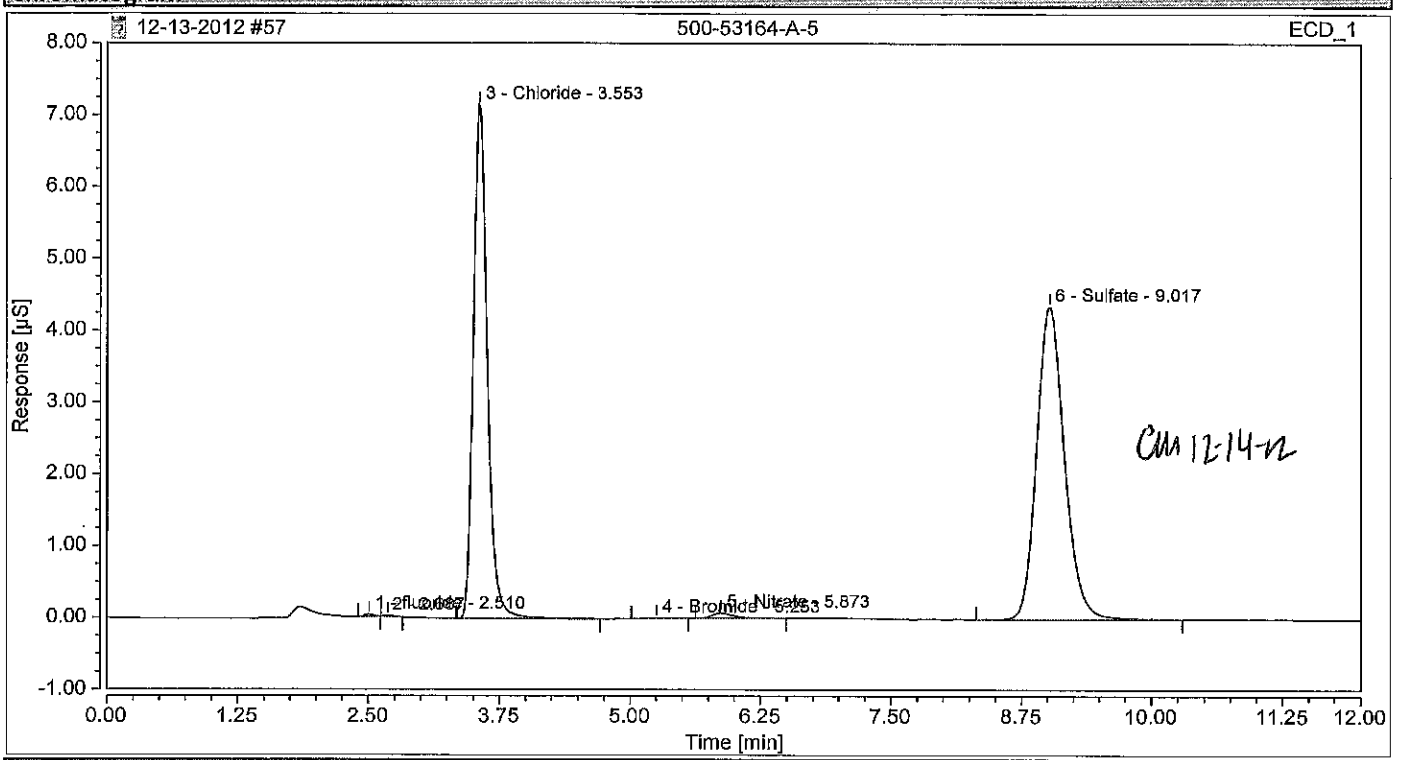
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.002	0.019	0.16	0.44	0.2681
2		2.703	0.002	0.012	0.13	0.28	n.a.
3	Chloride RC	3.557	0.108	0.654	8.95	15.32	19.3485
n.a.	Nitrite RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.100	3.584	90.76	83.97	280.4443
Total:			**1.212**	**4.269**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 22:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

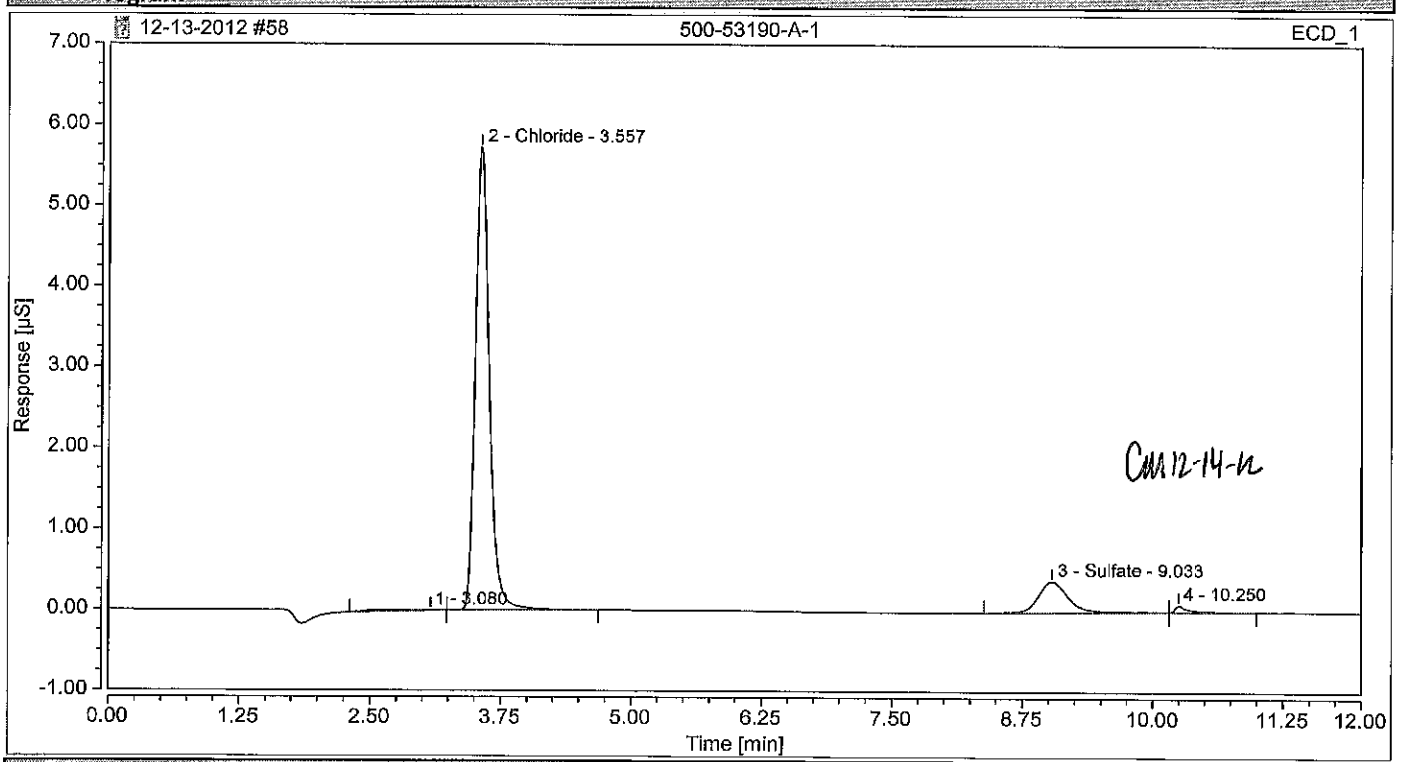
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.003	0.031	0.13	0.26	0.8868
2		2.687	0.001	0.014	0.06	0.12	n.a.
3	Chloride	3.553	1.100	7.151	44.43	61.48	392.3434
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.253	0.002	0.008	0.07	0.07	1.4894
5	Nitrate	5.873	0.017	0.073	0.70	0.62	2.6069
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	9.017	1.352	4.355	54.62	37.45	689.4012
Total:			**2.475**	**11.631**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 22:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

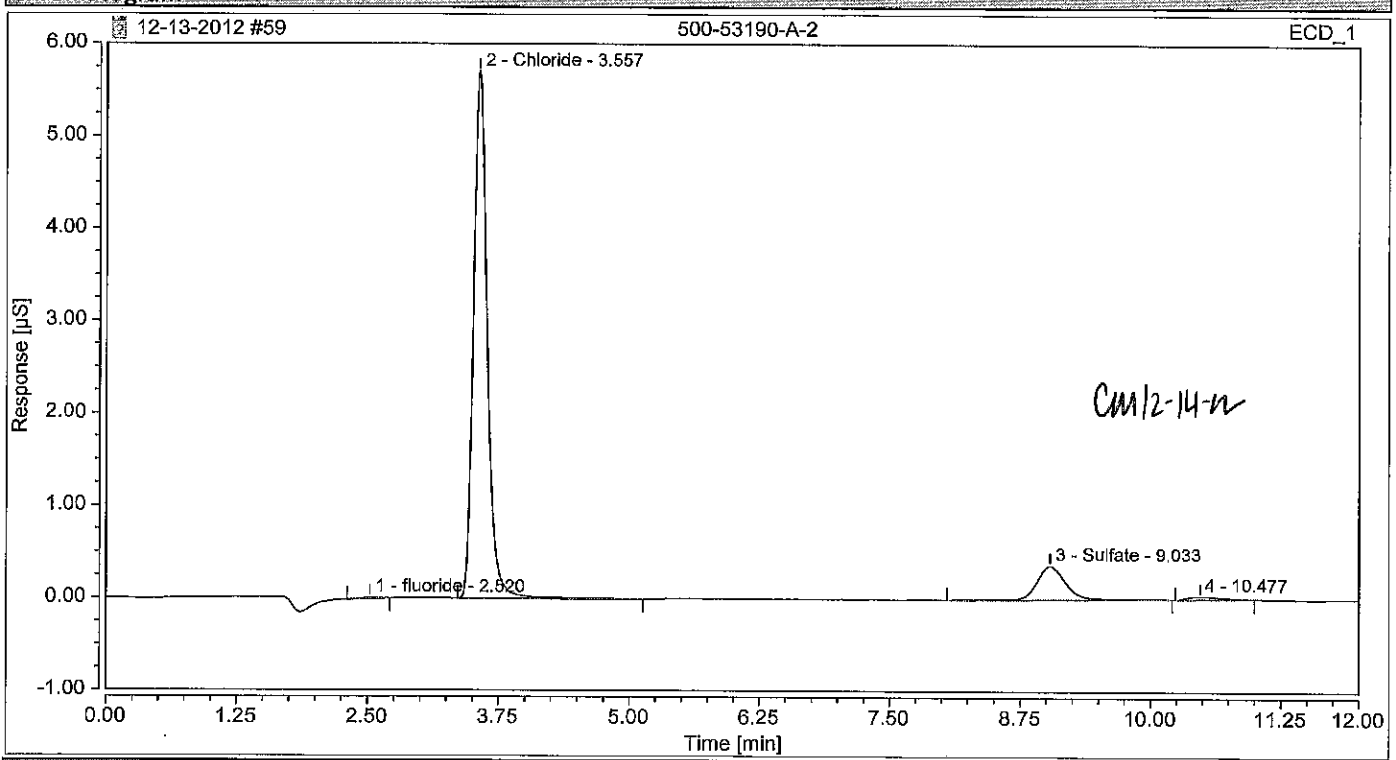
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.080	0.007	0.004	0.70	0.07	n.a.
2	Chloride	3.557	0.879	5.724	85.73	92.43	156.7937
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.033	0.126	0.382	12.32	6.17	32.2164
4		10.250	0.013	0.083	1.24	1.33	n.a.
Total:			**1.025**	**6.193**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 22:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

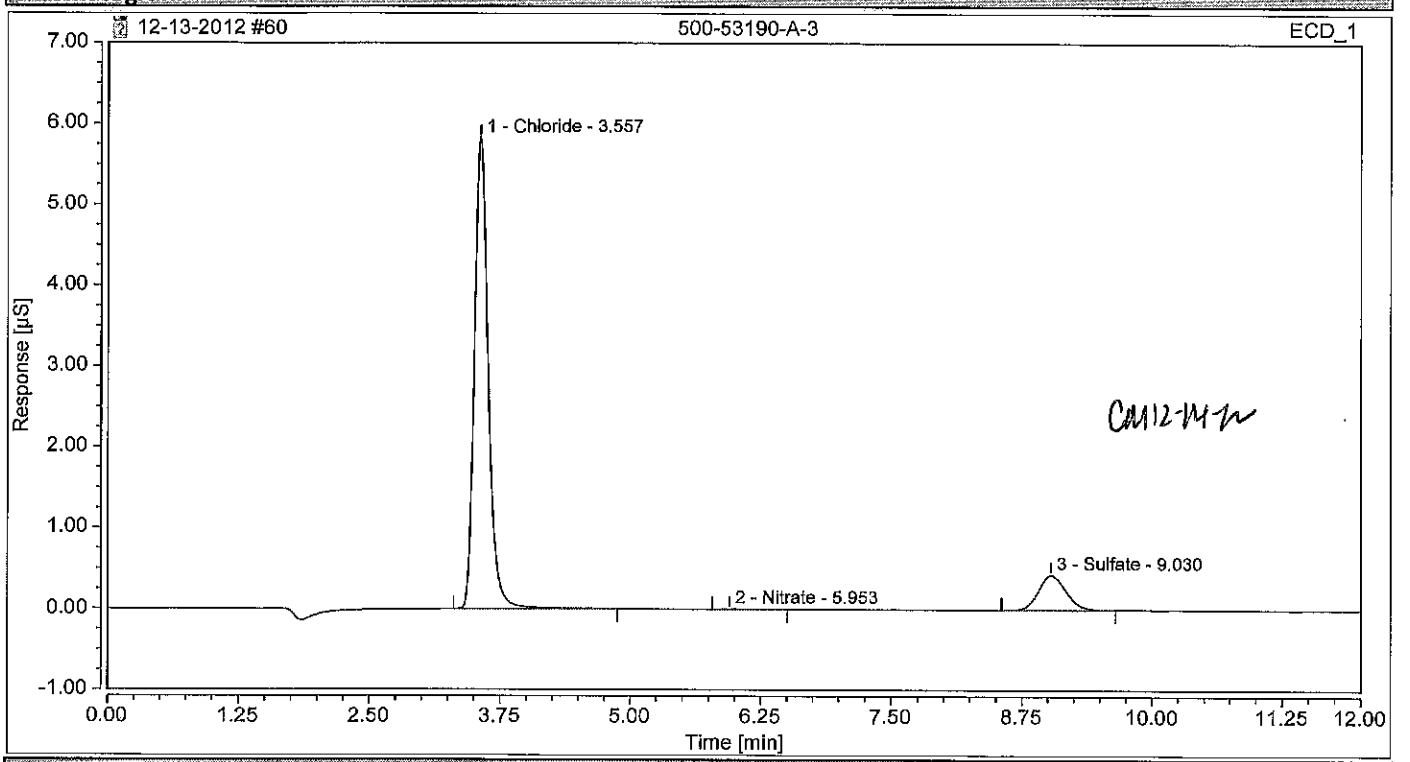
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.002	0.012	0.17	0.19	0.2350
2	Chloride	3.557	0.878	5.702	86.70	93.34	156.6947
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.033	0.121	0.363	11.94	5.95	30.8316
4		10.477	0.012	0.032	1.20	0.52	n.a.
Total:			**1.013**	**6.110**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 22:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

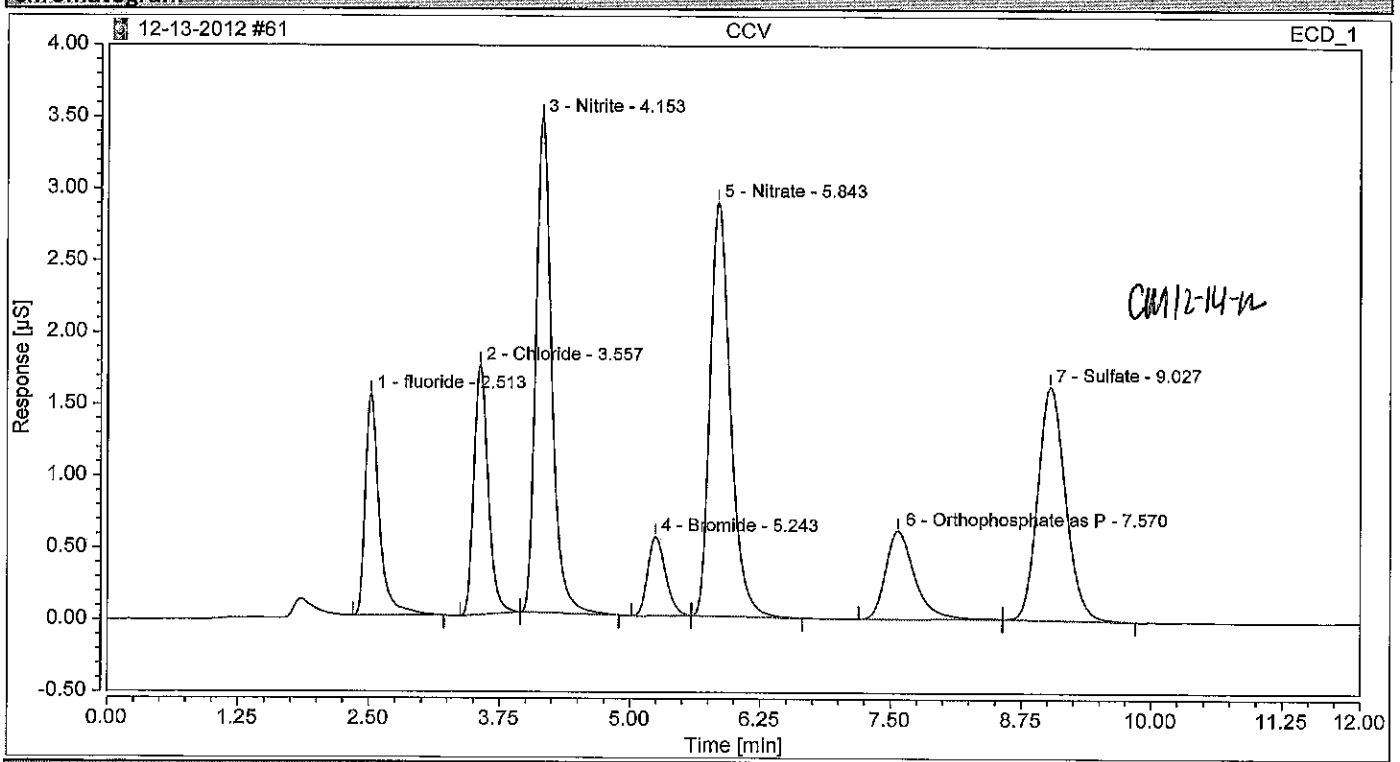
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.891	5.828	86.91	93.04	317.8818
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate mt	5.953	0.002	0.005	0.15	0.08	0.2367
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate Pt	9.030	0.133	0.431	12.94	6.88	67.6258
Total:			**1.025**	**6.264**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 22:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

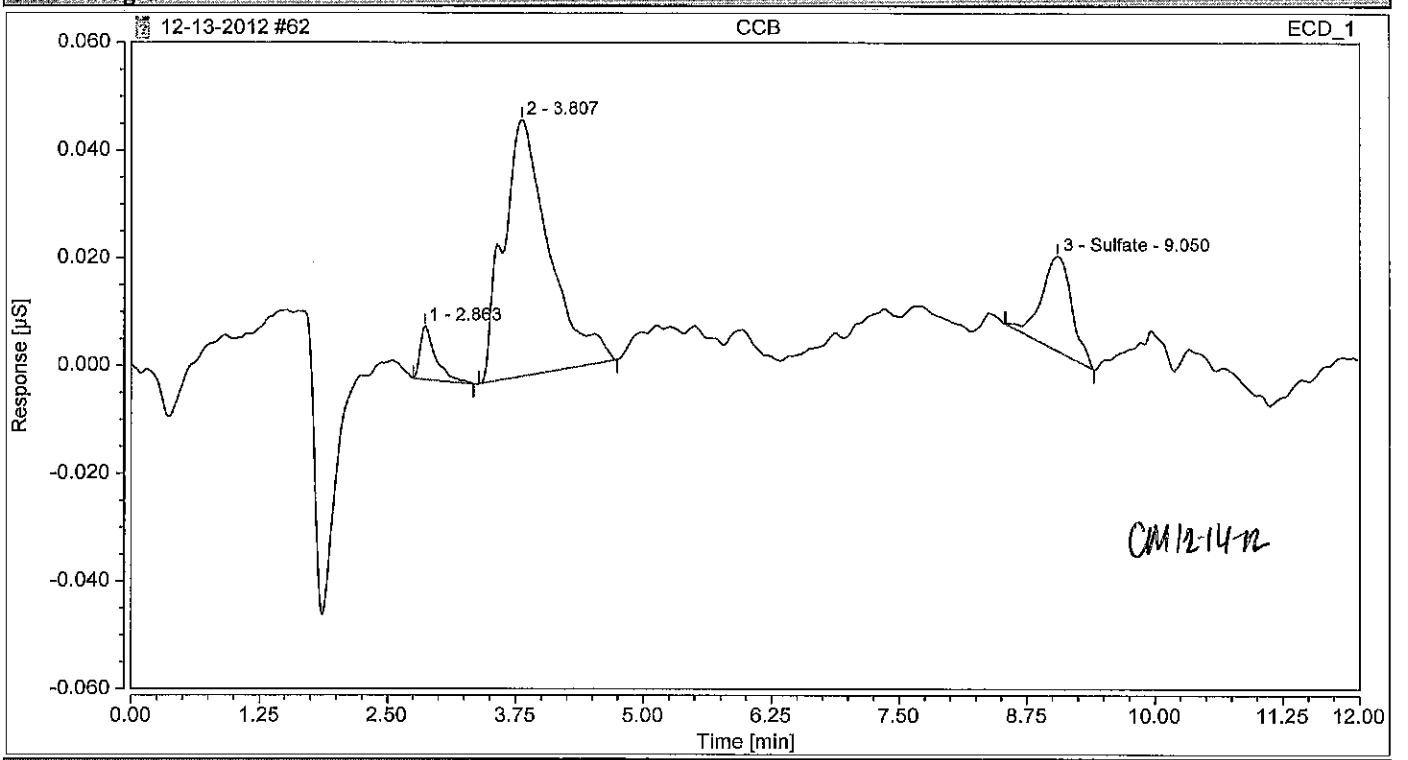
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.542	9.27	12.44	0.6548
2	Chloride	3.557	0.275	1.735	10.59	14.00	0.9803
3	Nitrite	4.153	0.611	3.446	23.54	27.81	0.9531
4	Bromide	5.243	0.109	0.550	4.20	4.44	0.9986
5	Nitrate	5.843	0.657	2.878	25.32	23.23	0.9866
6	Orthophosphate as P	7.570	0.199	0.614	7.67	4.96	0.9996
7	Sulfate	9.027	0.504	1.626	19.42	13.12	2.5704
Total:			**2.595**	**12.390**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 23:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

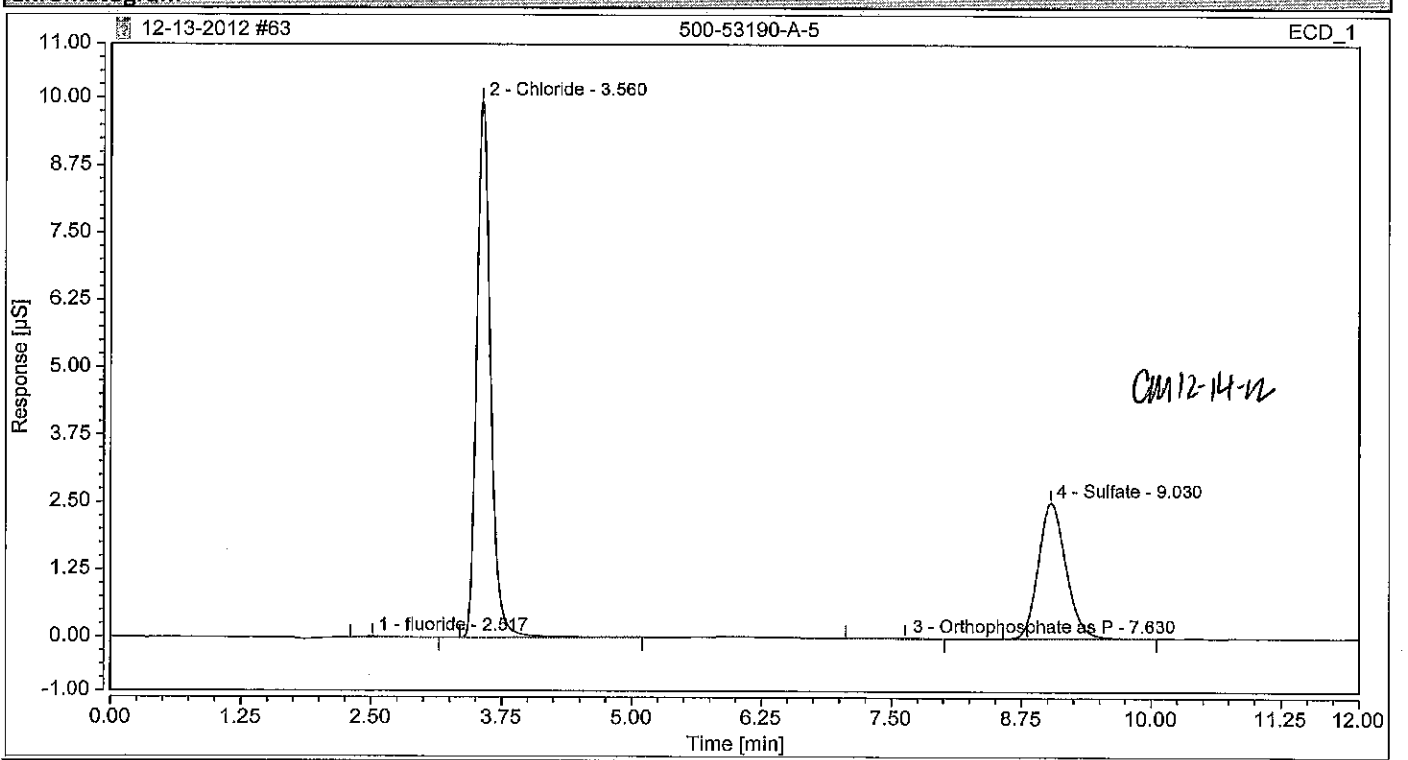
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.863	0.002	0.010	5.32	13.16	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.807	0.025	0.048	76.02	63.43	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
3	Sulfate	9.050	0.006	0.018	18.66	23.42	0.0309
Total:			**0.032**	**0.075**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 23:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

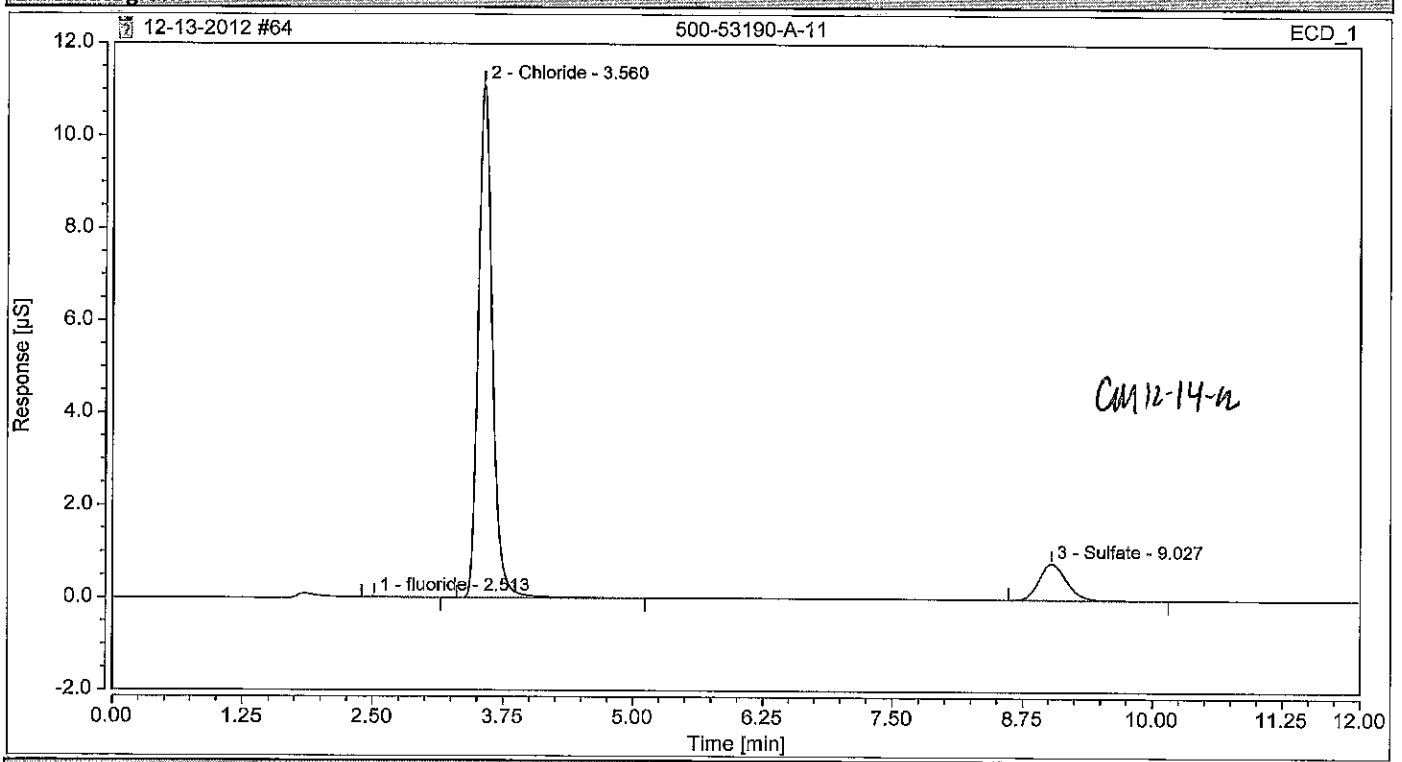
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.005	0.022	0.21	0.18	0.3316
2	Chloride	3.560	1.533	9.959	66.02	79.54	136.7531
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P m	7.630	0.005	0.014	0.22	0.11	0.6345
4	Sulfate	9.030	0.779	2.525	33.56	20.17	99.3542
Total:			**2.322**	**12.521**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 23:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

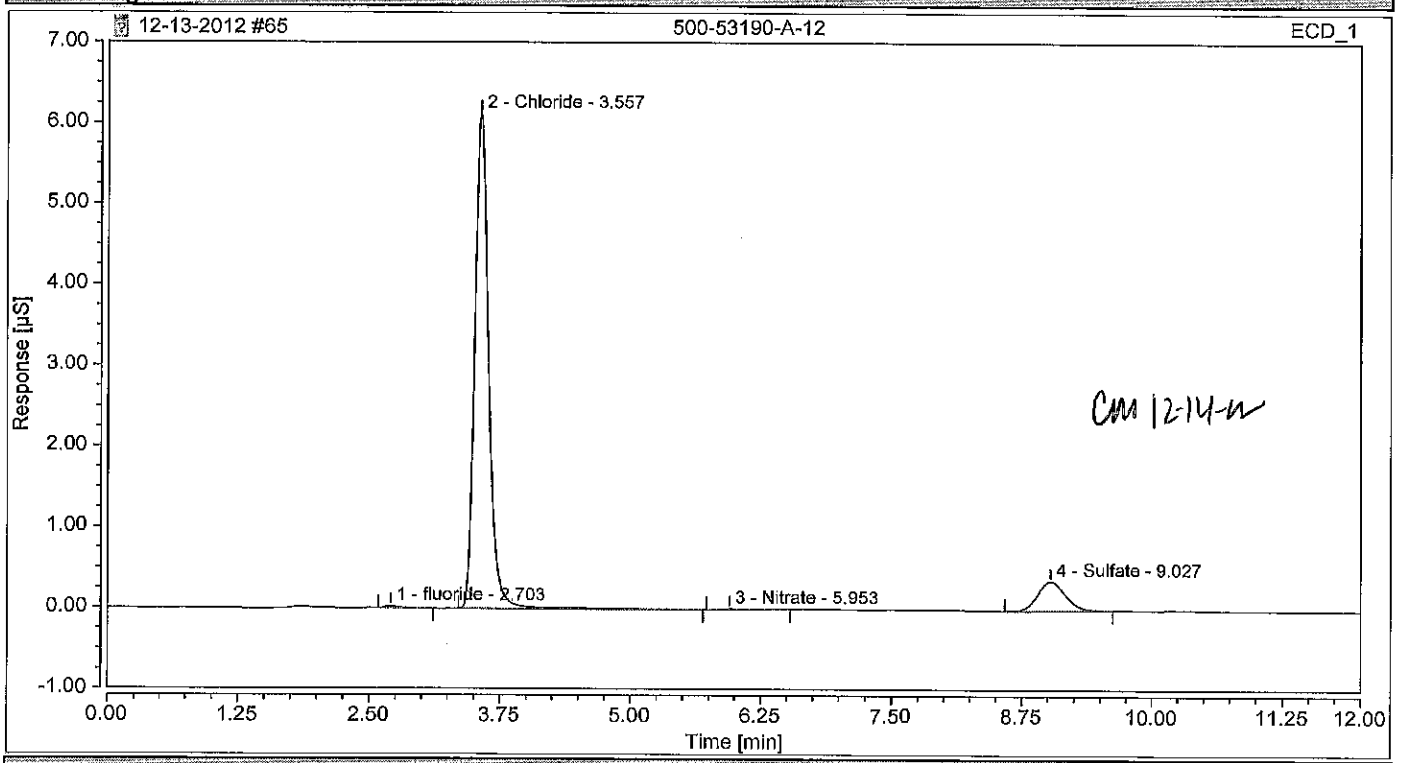
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.004	0.020	0.21	0.17	0.2870
2	Chloride	3.560	1.737	11.123	87.23	93.18	154.9152
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate lt	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate lt	9.027	0.250	0.794	12.56	6.65	31.8851
Total:			**1.991**	**11.938**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 23:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

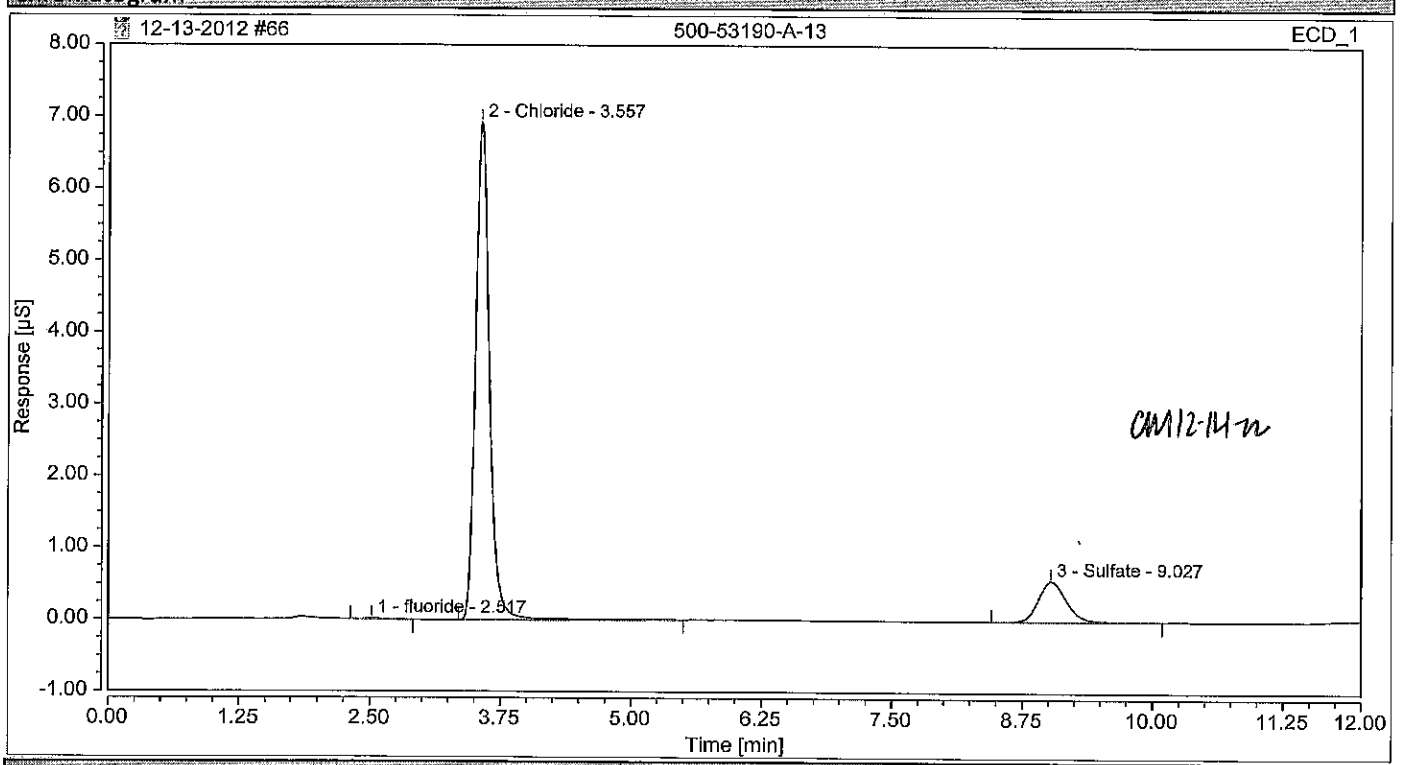
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.703	0.003	0.023	0.32	0.36	0.9361
2	Chloride	3.557	0.956	6.130	88.96	93.97	341.0614
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate KE	5.953	0.002	0.008	0.22	0.12	0.3602
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate KE	9.027	0.113	0.363	10.50	5.56	57.5434
Total:			**1.075**	**6.524**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:02**	*Sample Weight:*	**1.0000**

Chromatogram



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Integration Results

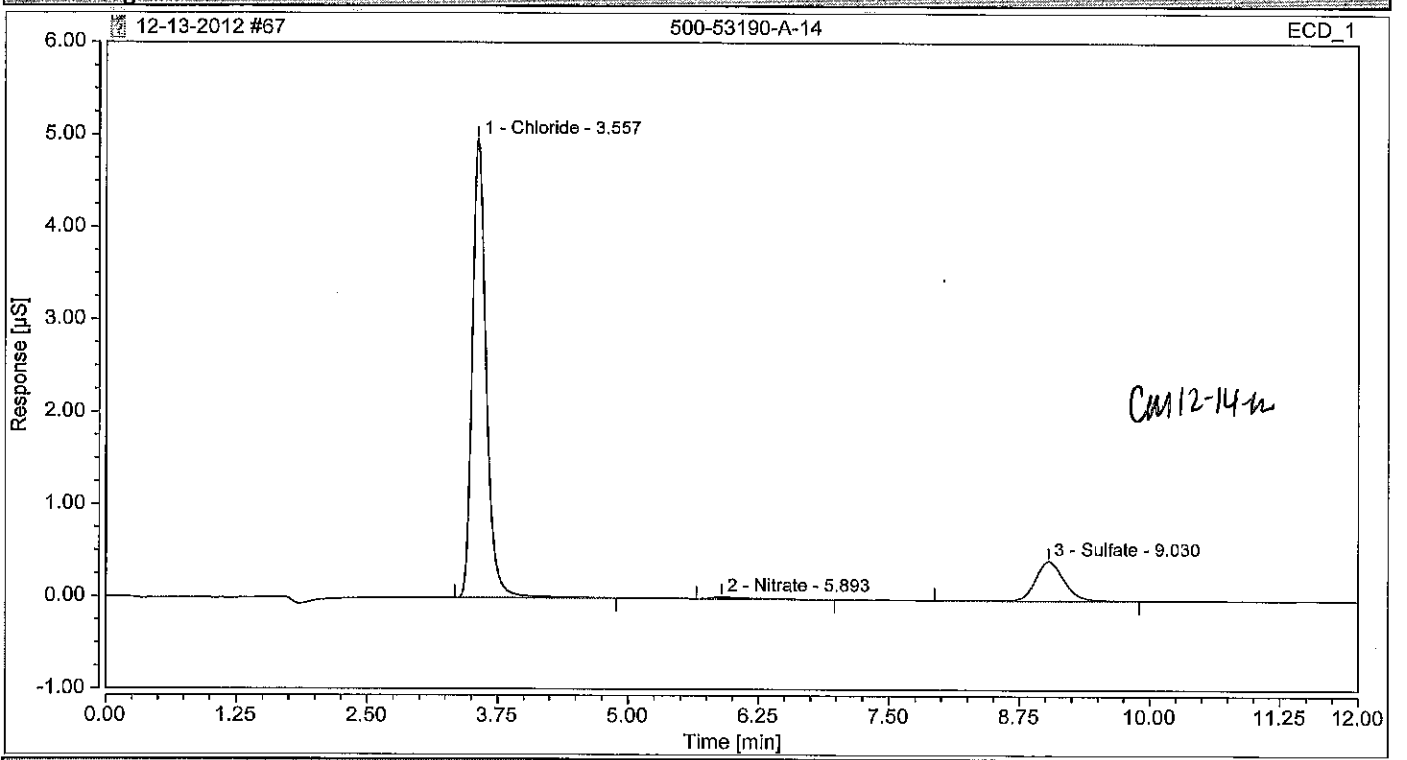
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.010	0.19	0.13	0.6367
2	Chloride	3.557	1.077	6.928	85.51	92.32	384.2437
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate KE	9.027	0.180	0.567	14.31	7.56	91.8775
Total:			**1.259**	**7.504**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

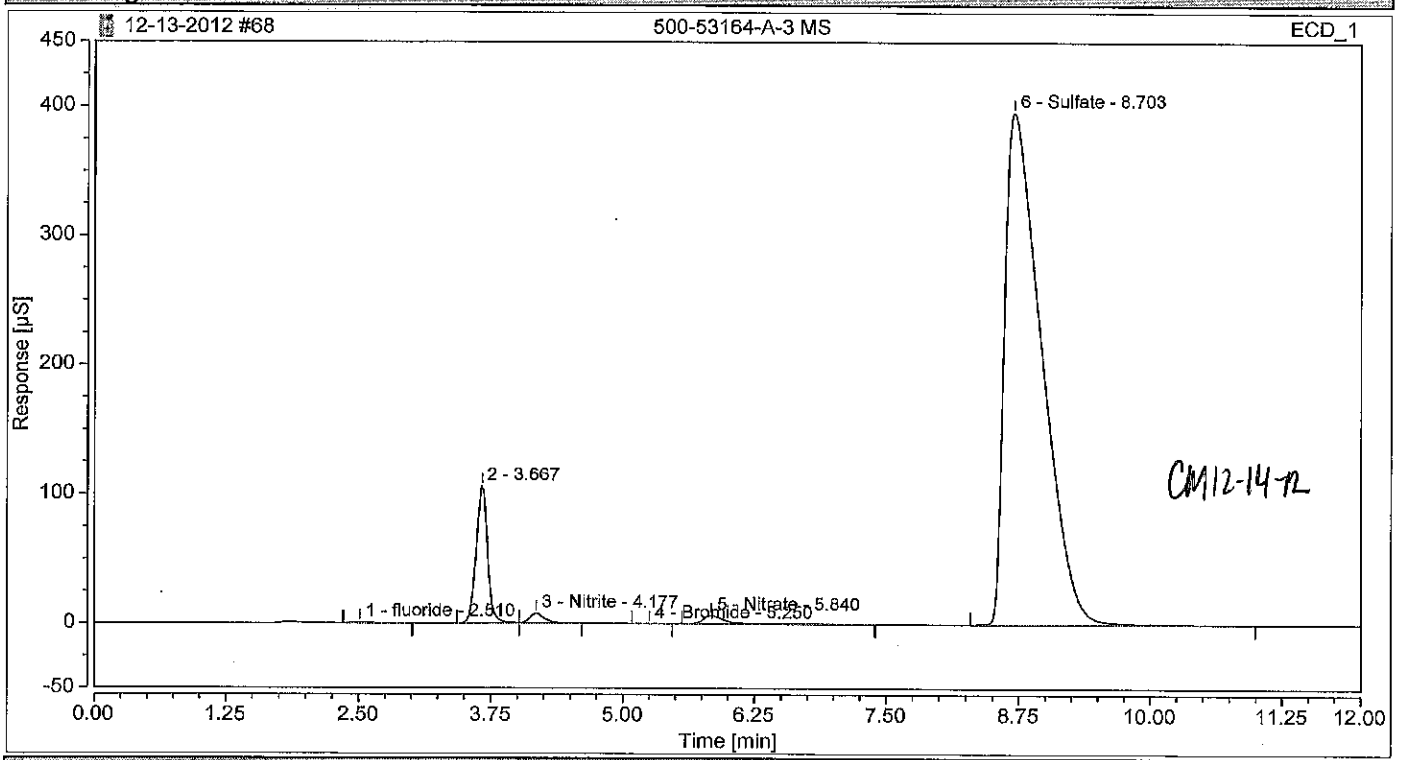
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.772	4.963	83.77	91.67	275.5924
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate kt	5.893	0.009	0.022	1.01	0.40	1.3962
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate kt	9.030	0.140	0.429	15.22	7.93	71.5751
Total:			**0.922**	**5.414**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 00:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

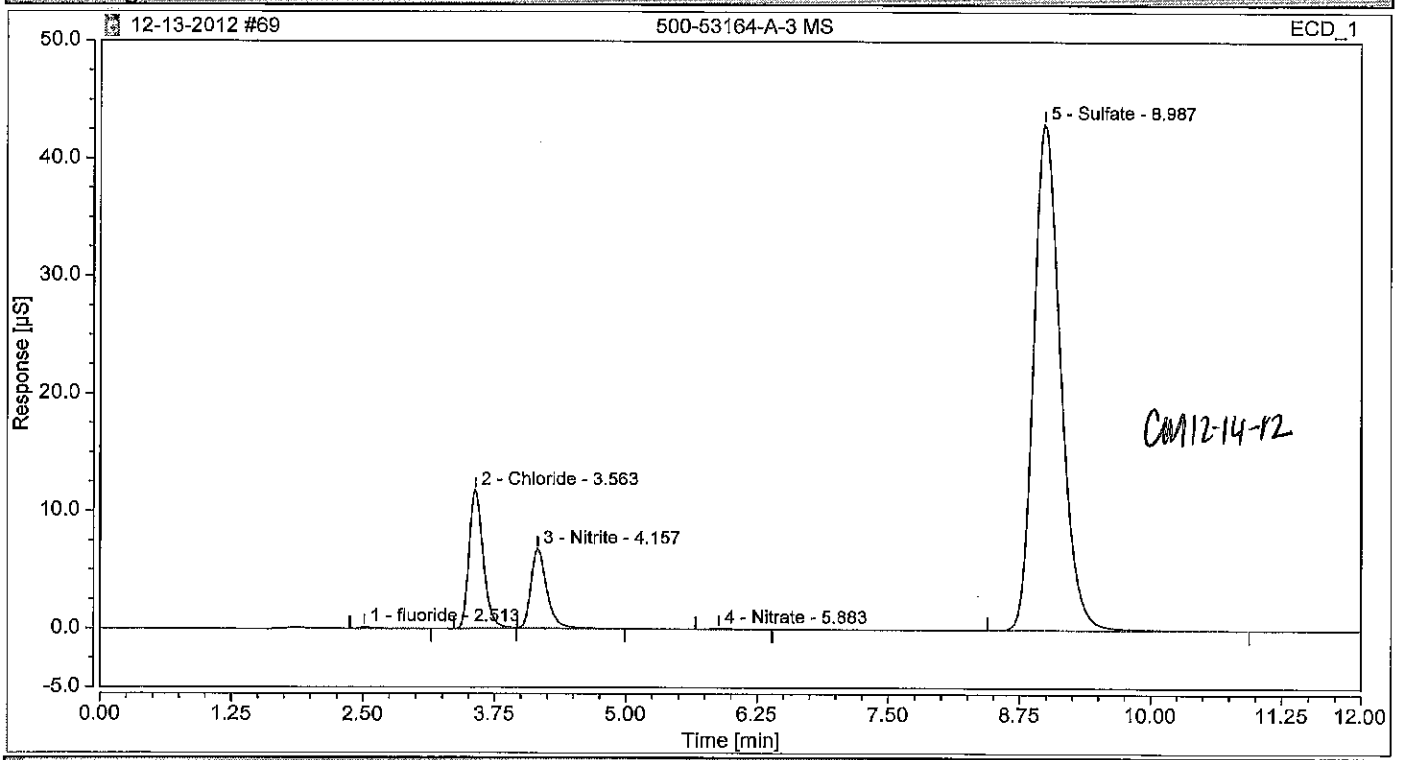
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.151	0.902	0.09	0.17	0.4114
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.667	13.126	105.961	7.47	20.51	n.a.
3	Nitrite	4.177	1.166	7.441	0.66	1.44	1.8187
4	Bromide	5.250	0.009	0.050	0.00	0.01	0.0791
5	Nitrate	5.840	1.469	6.403	0.84	1.24	2.2055
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.703	159.907	395.946	90.95	76.63	815.4313
Total:			**175.827**	**516.702**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 00:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

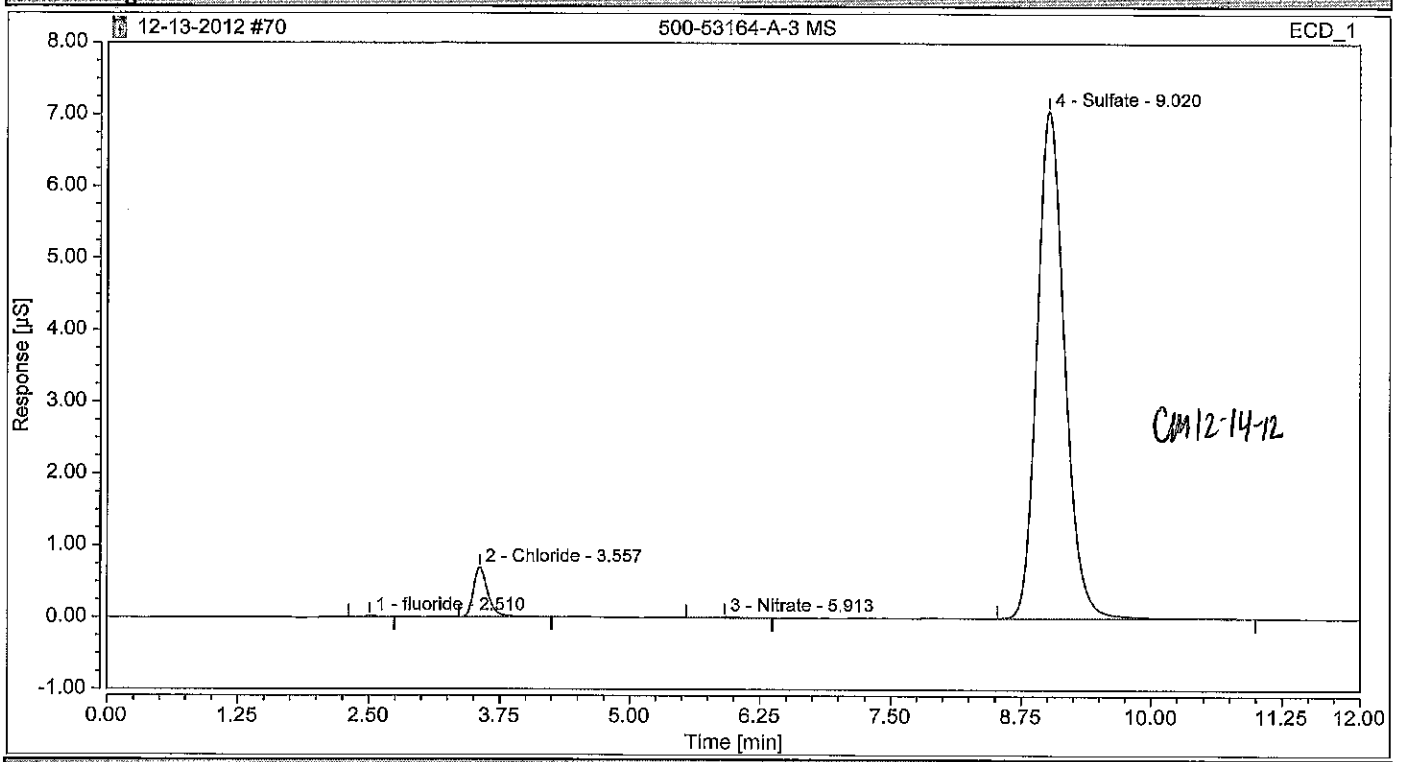
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.020	0.114	0.13	0.18	0.5439
2	Chloride	3.563	1.848	11.732	11.59	19.02	65.9276
3	Nitrite	4.157	1.168	6.721	7.33	10.90	18.2268
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.883	0.016	0.065	0.10	0.11	0.2334
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.987	12.886	43.047	80.85	69.79	657.1034
Total:			**15.937**	**61.680**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

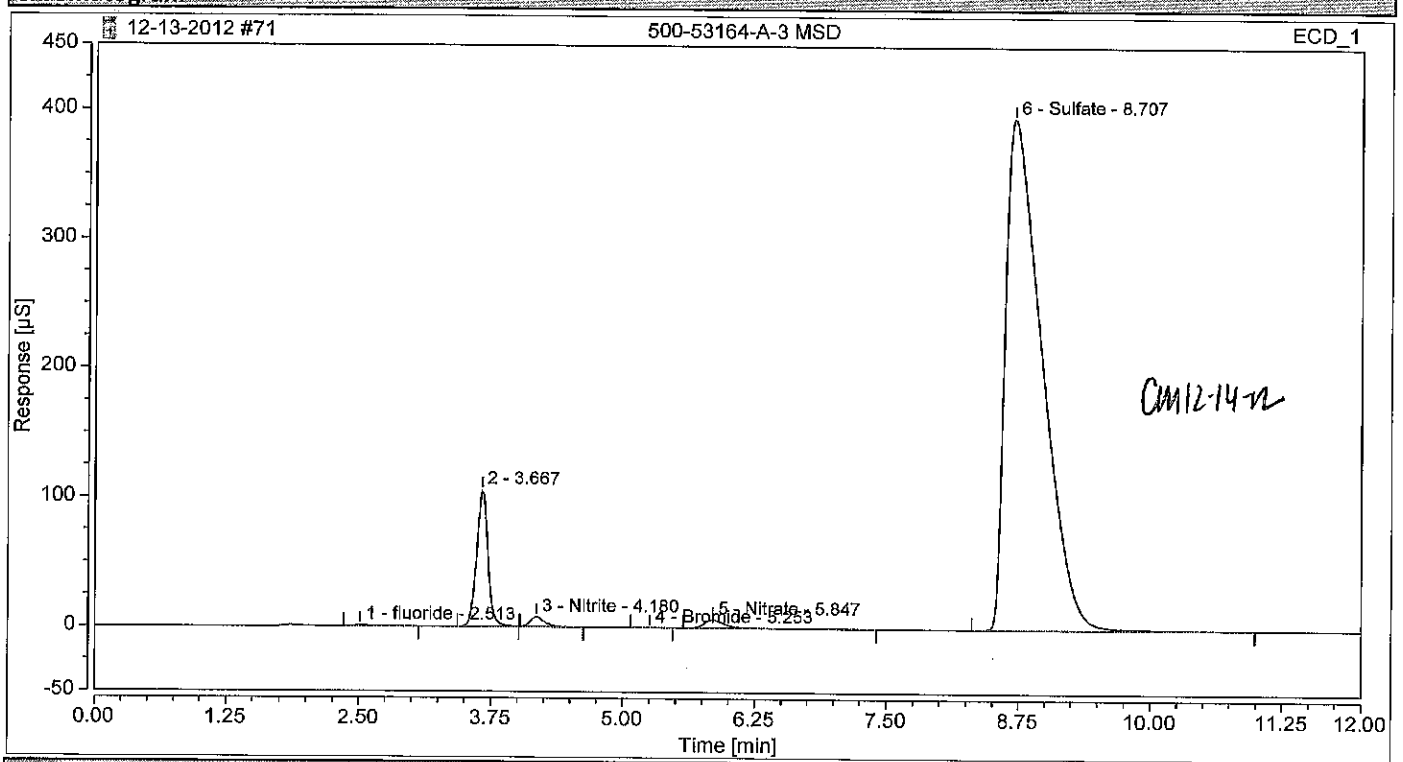
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.013	0.08	0.16	0.4780
2	Chloride	3.557	0.109	0.685	4.73	8.81	38.7582
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.913	0.004	0.015	0.18	0.19	0.6273
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	2.180	7.064	95.01	90.84	1111.6713
Total:			**2.295**	**7.777**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

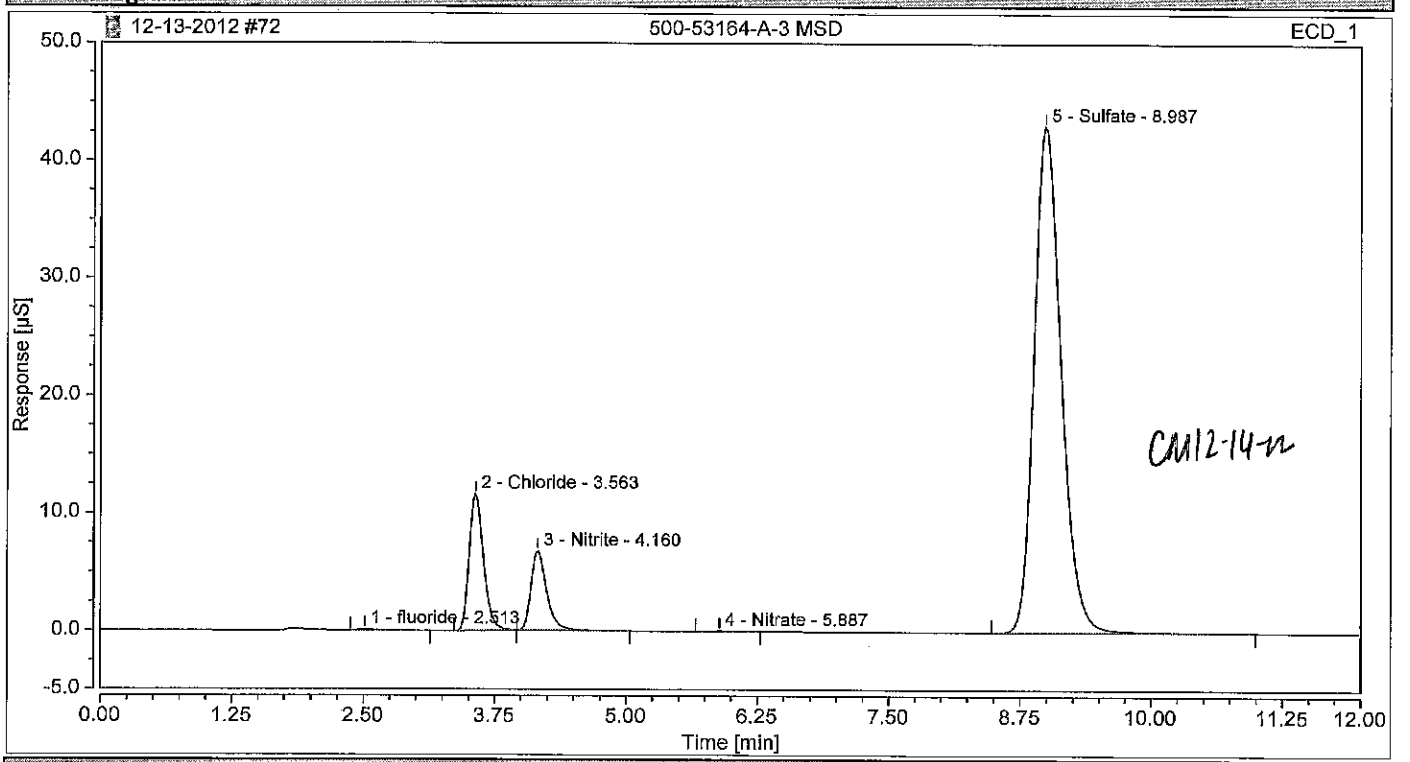
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.149	0.907	0.08	0.18	0.4048
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.667	13.114	105.747	7.48	20.50	n.a.
3	Nitrite	4.180	1.164	7.423	0.66	1.44	1.8156
4	Bromide	5.253	0.009	0.050	0.00	0.01	0.0800
5	Nitrate	5.847	1.440	6.364	0.82	1.23	2.1622
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.707	159.537	395.273	90.95	76.64	813.5439
Total:			**175.411**	**515.764**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 01:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

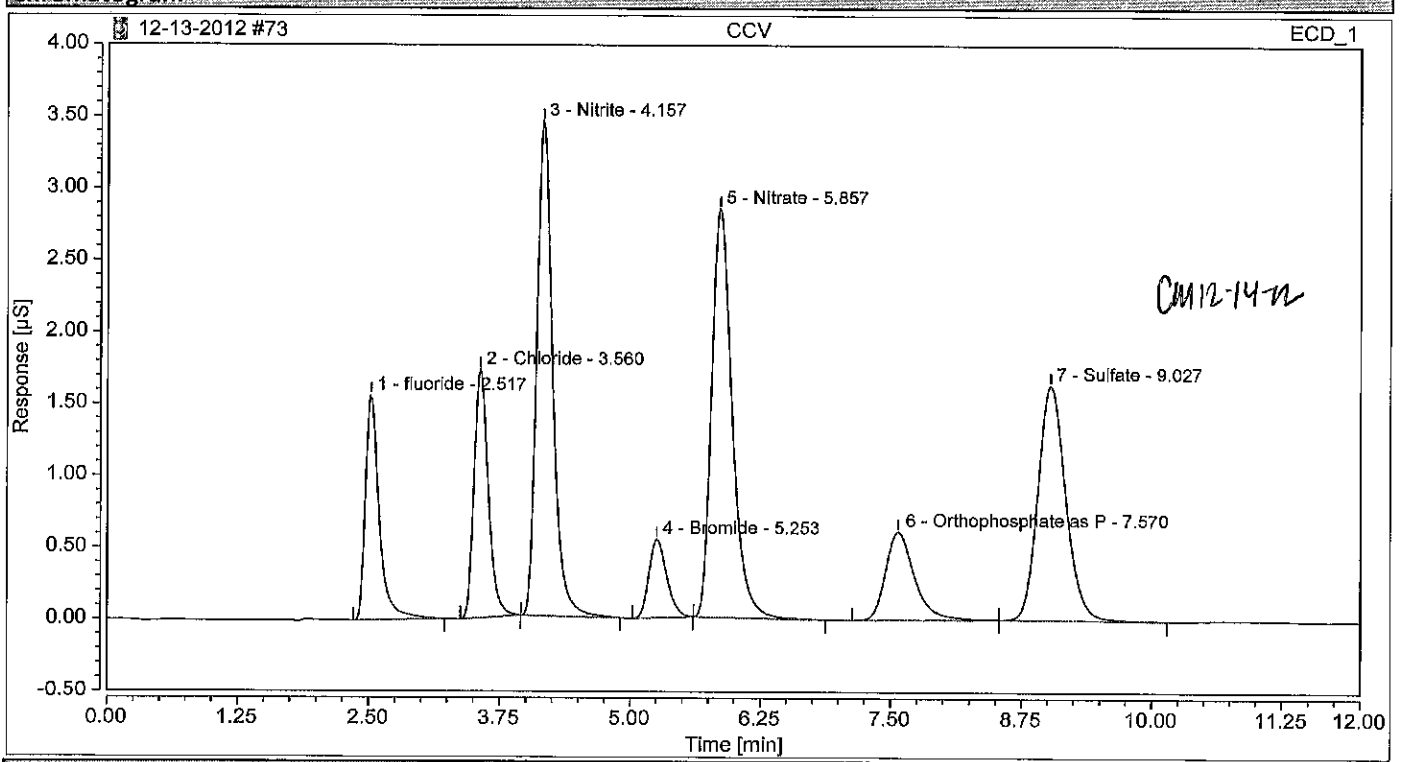
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.018	0.112	0.11	0.18	0.4847
2	Chloride	3.563	1.836	11.625	11.53	18.88	65.5181
3	Nitrite	4.160	1.170	6.724	7.35	10.92	18.2497
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.887	0.011	0.049	0.07	0.08	0.1691
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.987	12.885	43.060	80.94	69.94	657.0738
Total:			**15.920**	**61.570**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

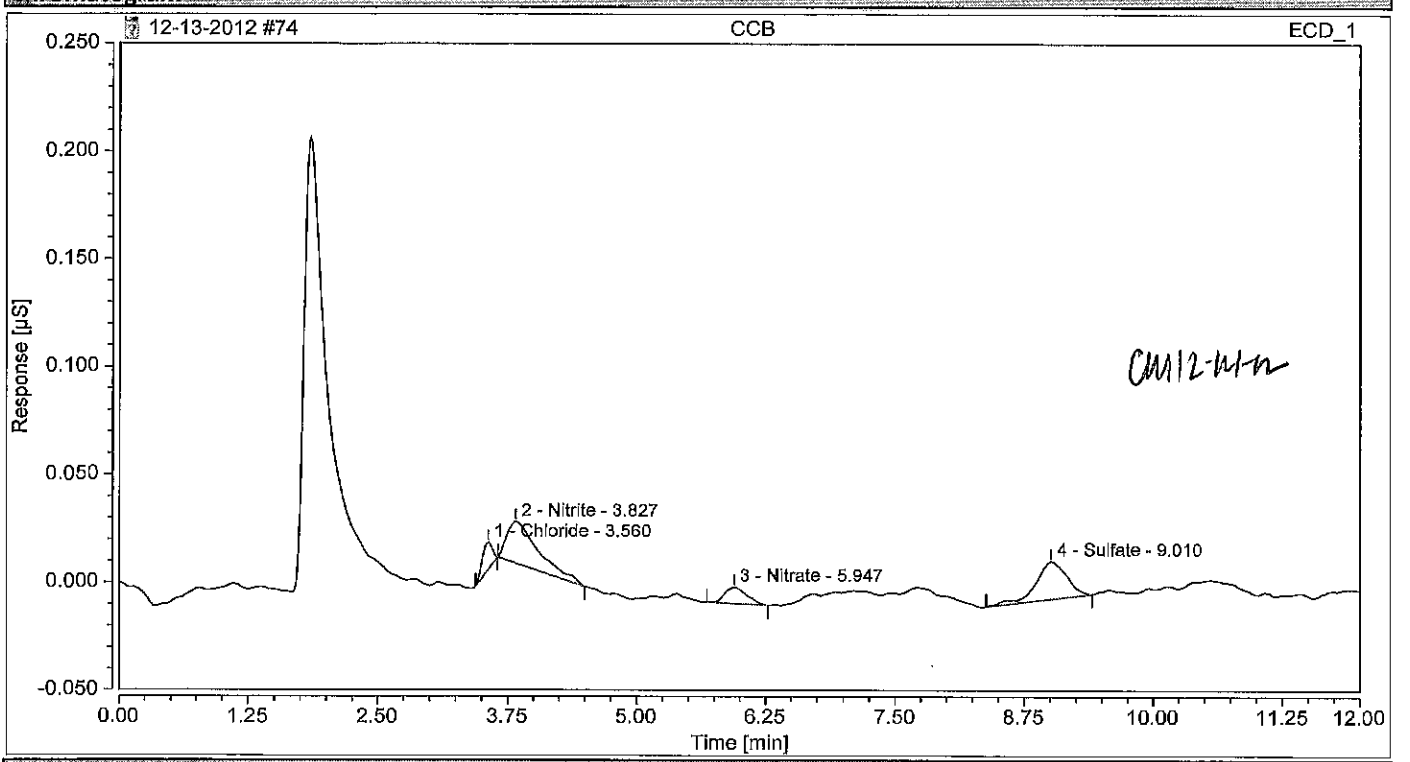
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.240	1.563	9.30	12.64	0.6543
2	Chloride	3.560	0.272	1.725	10.53	13.95	0.9703
3	Nitrite	4.157	0.608	3.441	23.53	27.84	0.9486
4	Bromide	5.253	0.108	0.545	4.19	4.41	0.9925
5	Nitrate	5.857	0.653	2.842	25.27	22.99	0.9805
6	Orthophosphate as P	7.570	0.195	0.614	7.55	4.97	0.9797
7	Sulfate	9.027	0.507	1.632	19.64	13.20	2.5878
Total:			**2.584**	**12.363**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:48**	*Sample Weight:*	**1.0000**

Chromatogram



CM12-14-12

Integration Results

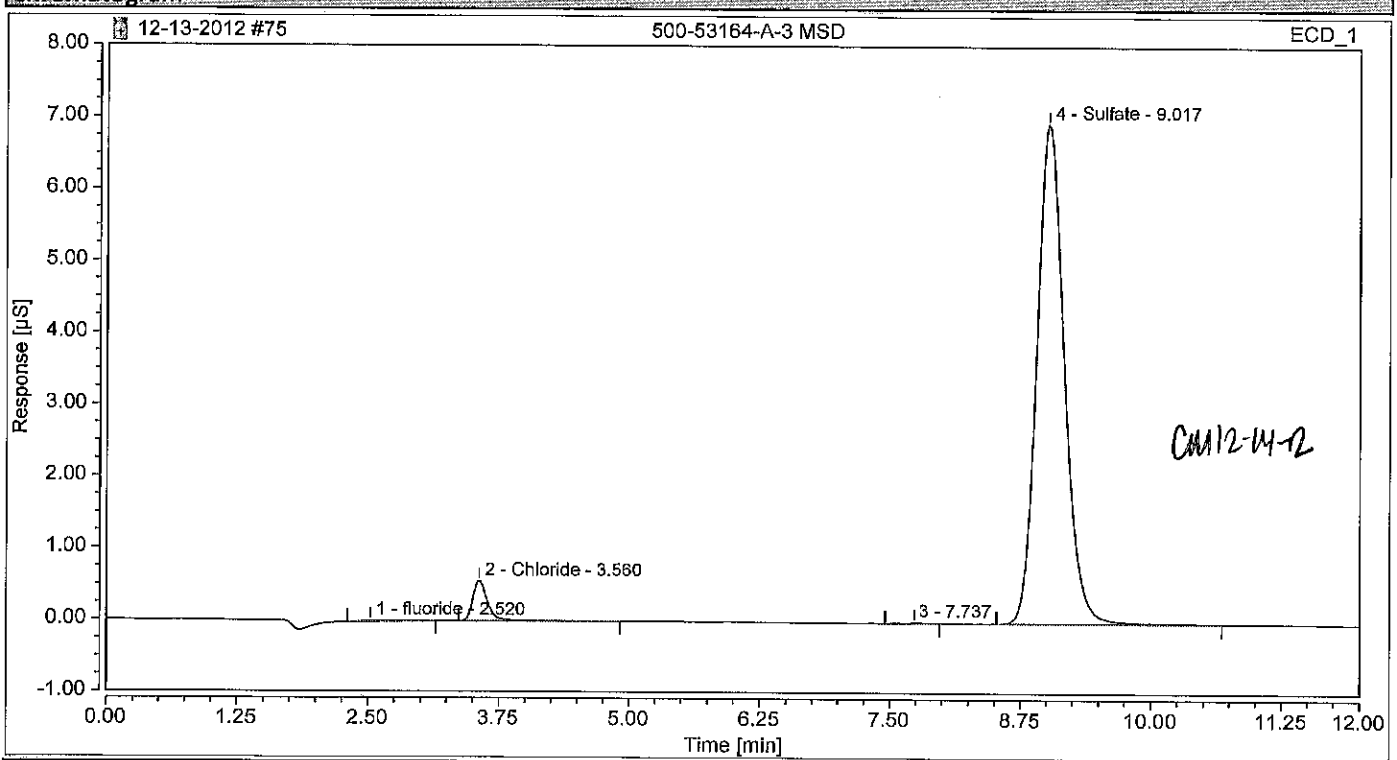
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.560	0.001	0.013	8.74	22.16	0.0051
2	Nitrite	3.827	0.007	0.019	42.60	33.78	0.0108
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.947	0.002	0.008	11.62	13.28	0.0028
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.010	0.006	0.017	37.03	30.78	0.0307
Total:			**0.016**	**0.057**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 02:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

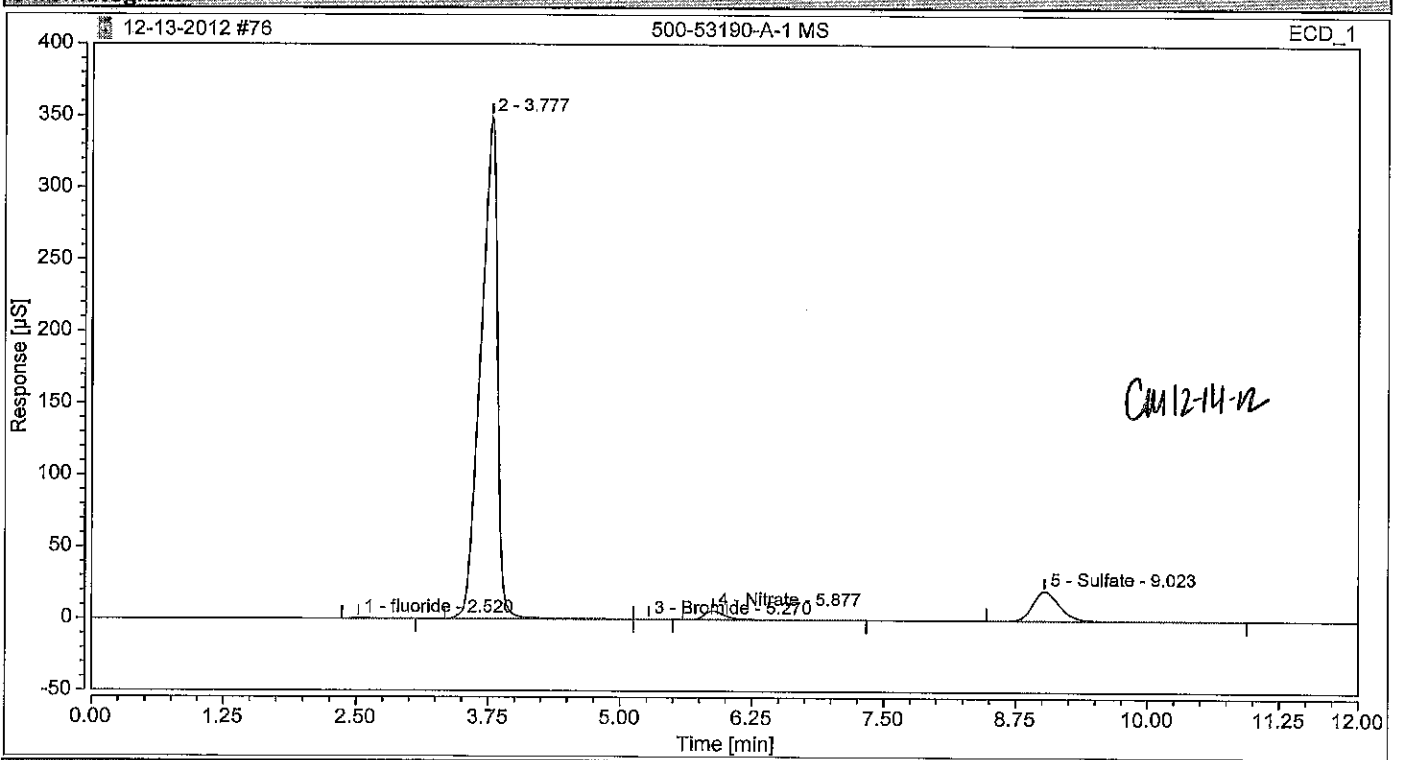
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.004	0.014	0.17	0.19	1.0556
2	Chloride	3.560	0.090	0.553	4.05	7.34	32.2872
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		7.737	0.002	0.012	0.07	0.16	n.a.
4	Sulfate	9.017	2.136	6.951	95.70	92.31	1089.3000
Total:			**2.232**	**7.530**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 02:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

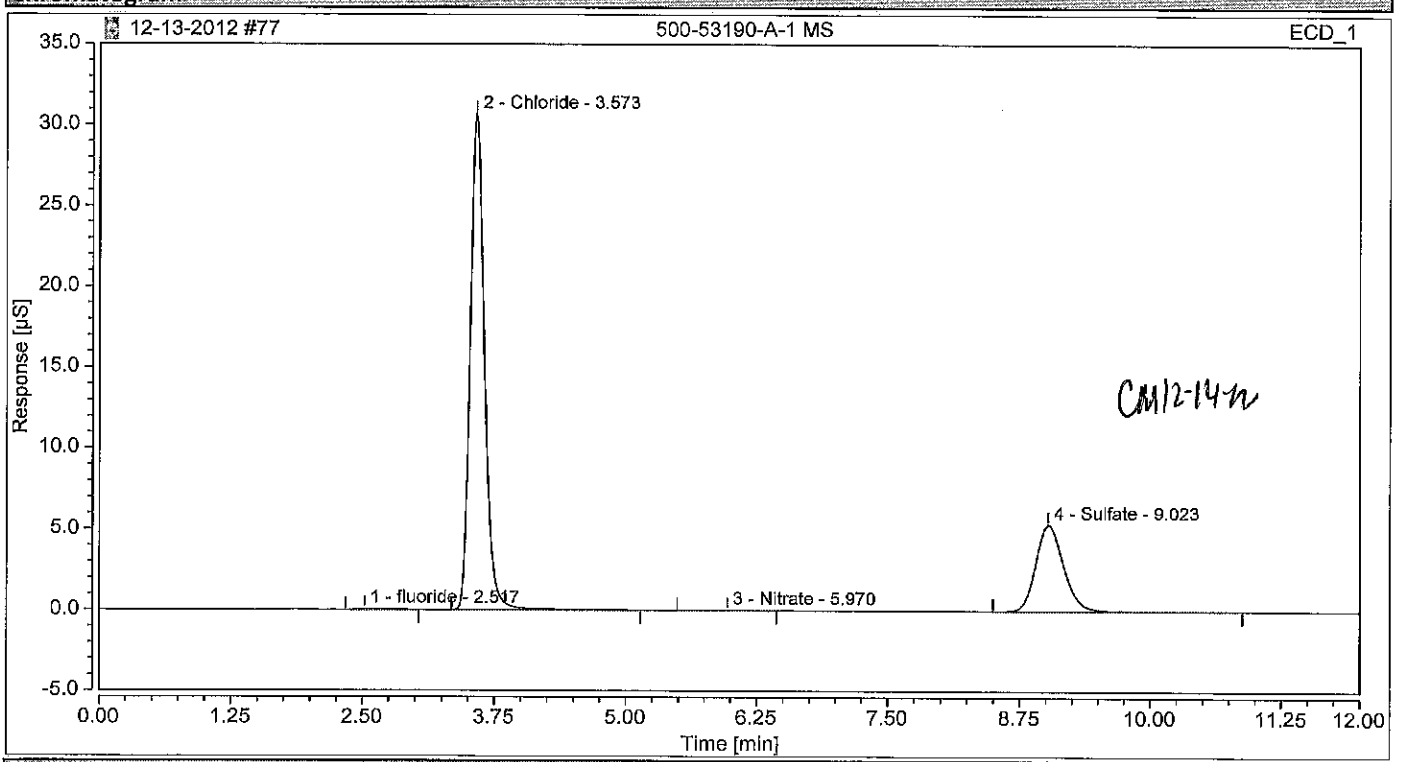
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.066	0.392	0.09	0.10	0.1808
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.777	63.513	349.469	89.29	92.78	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.270	0.005	0.032	0.01	0.01	0.0503
4	Nitrate	5.877	1.369	6.043	1.92	1.60	2.0555
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.023	6.175	20.737	8.68	5.51	31.4910
Total:			**71.129**	**376.673**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 02:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

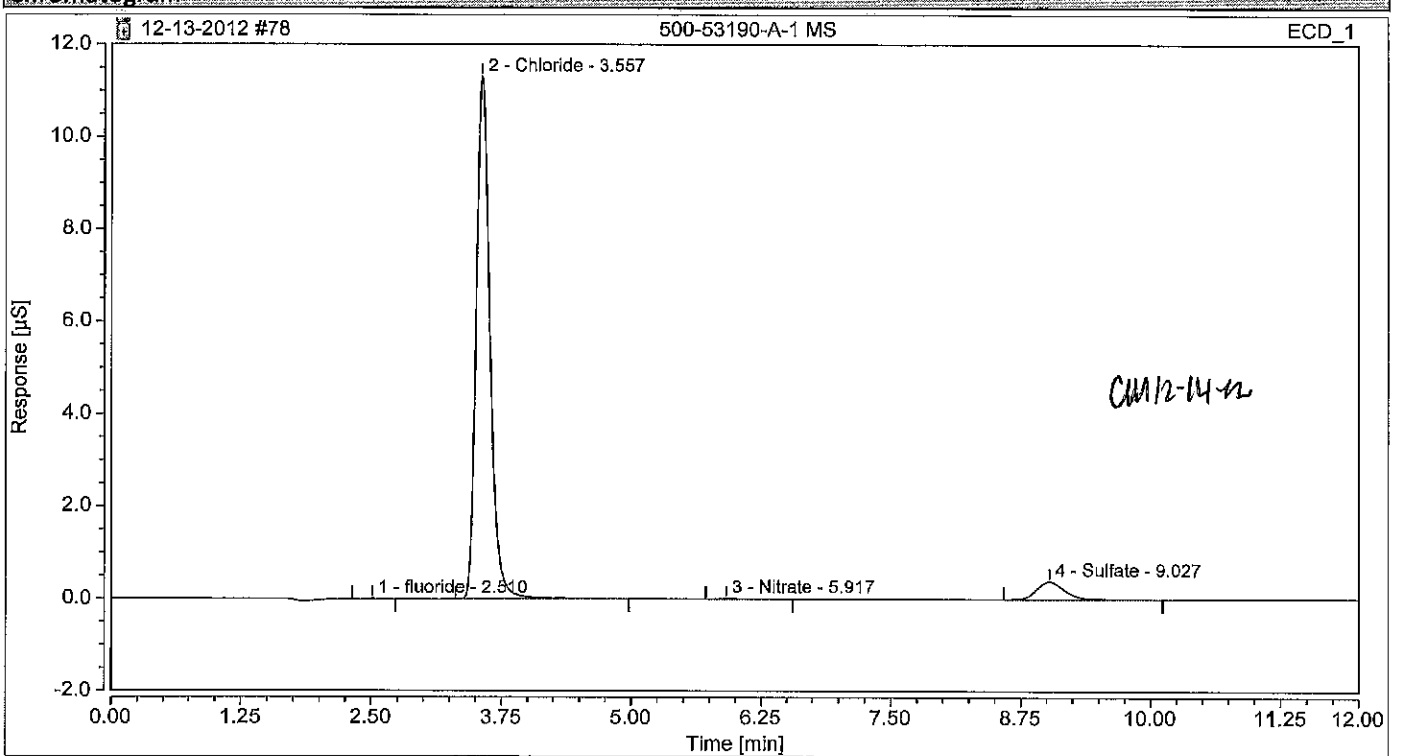
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.012	0.062	0.19	0.17	0.3358
2	Chloride	3.573	4.813	30.677	74.18	84.96	171.7121
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.970	0.005	0.013	0.07	0.04	0.0693
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.658	5.354	25.56	14.83	84.5601
Total:			**6.488**	**36.106**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 02:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

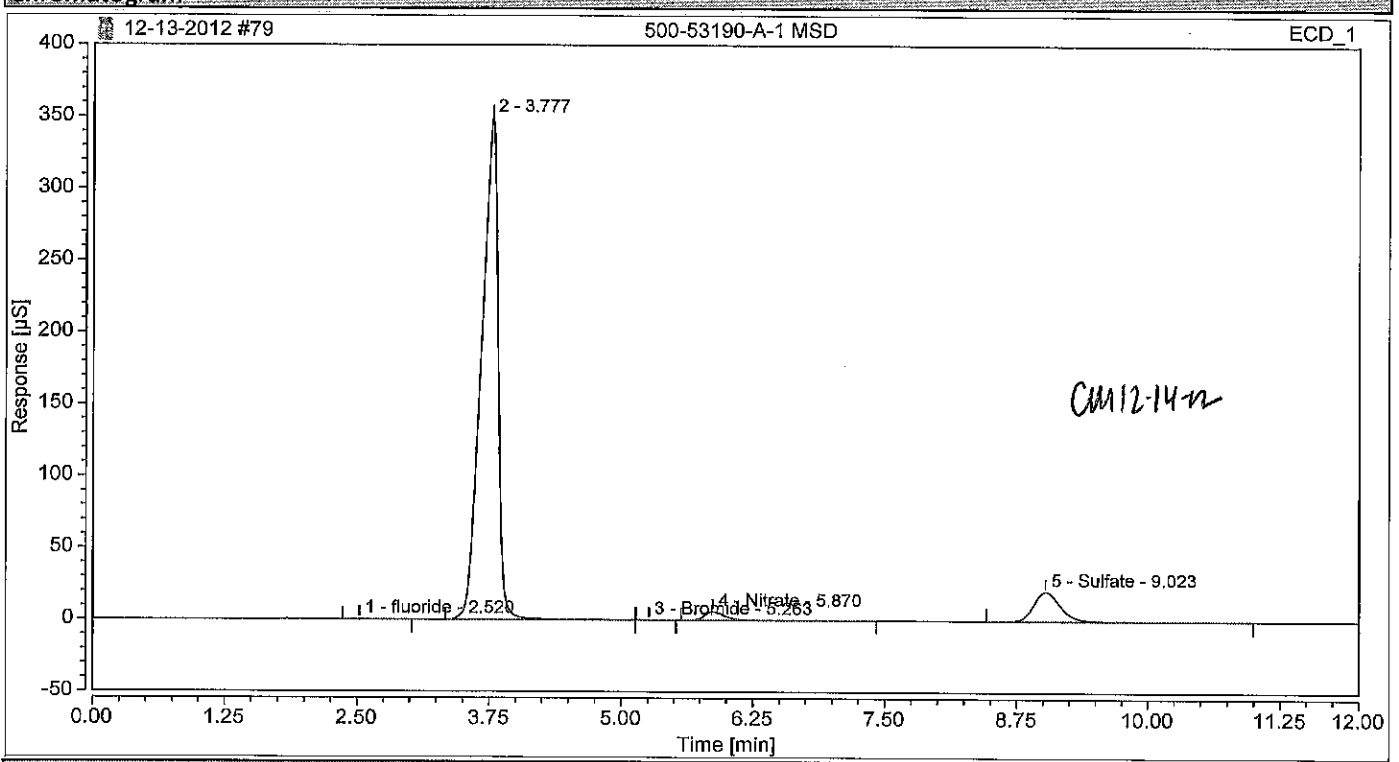
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.010	0.08	0.09	0.2096
2	Chloride	3.557	1.727	11.304	93.11	96.53	308.1614
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.917	0.003	0.010	0.16	0.09	0.2296
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.027	0.123	0.386	6.64	3.29	31.4098
Total:			**1.855**	**11.711**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 02:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

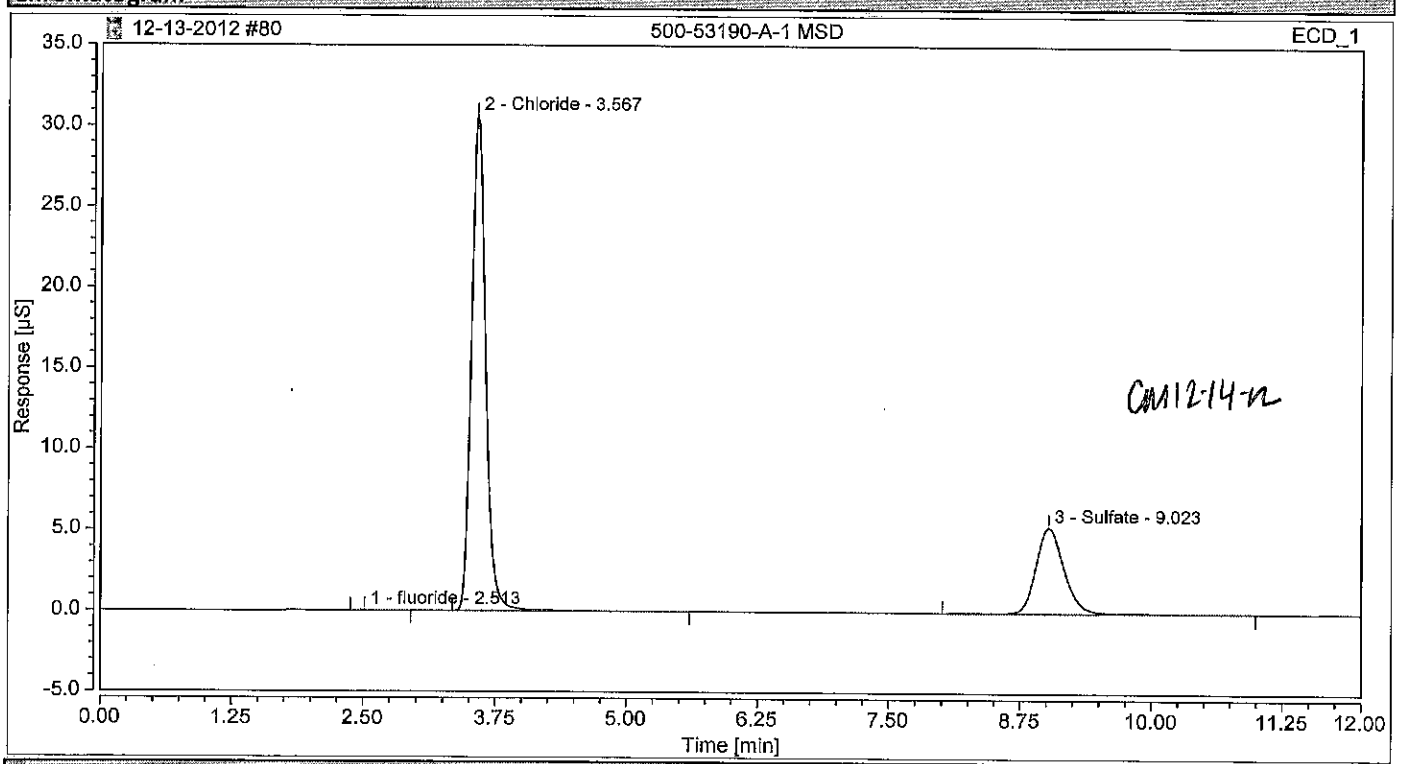
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.063	0.388	0.09	0.10	0.1719
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.777	63.540	349.473	89.31	92.78	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.263	0.005	0.031	0.01	0.01	0.0495
4	Nitrate	5.870	1.364	6.020	1.92	1.60	2.0477
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.023	6.174	20.740	8.68	5.51	31.4851
Total:			**71.147**	**376.652**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 03:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

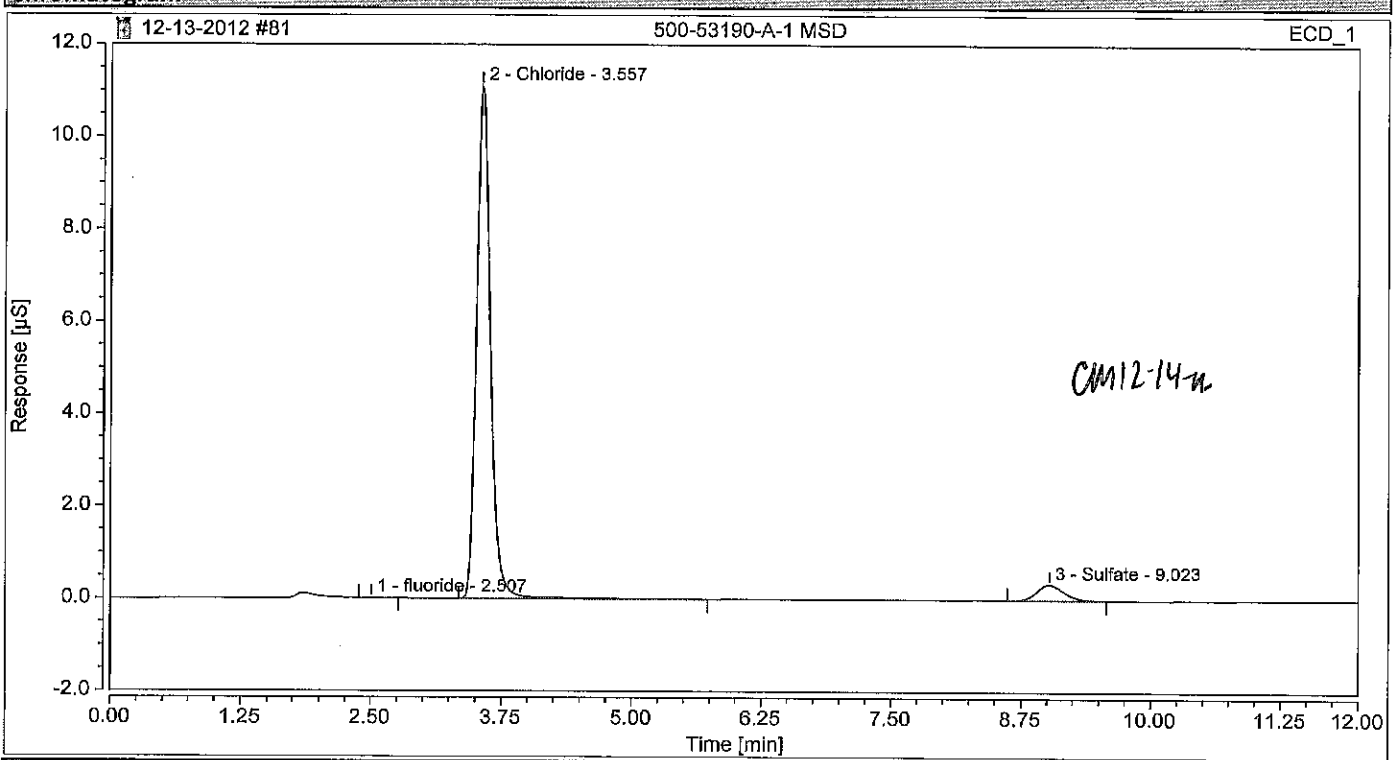
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.007	0.048	0.11	0.13	0.1931
2	Chloride	3.567	4.808	30.650	74.29	85.10	171.5277
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.023	1.657	5.320	25.60	14.77	84.4761
Total:			**6.471**	**36.018**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 03:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

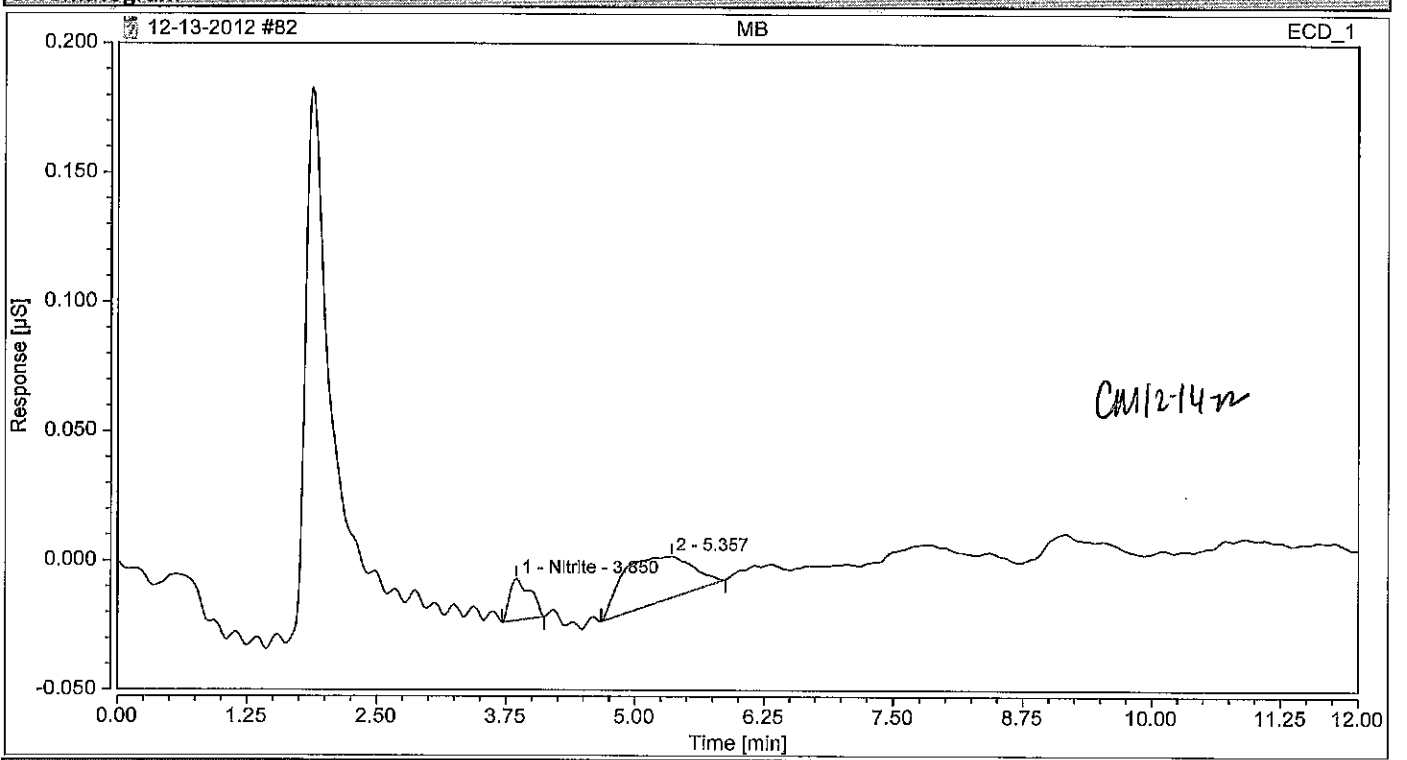
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.001	0.009	0.07	0.08	0.1814
2	Chloride	3.557	1.718	11.110	94.22	96.97	306.4088
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.023	0.104	0.339	5.71	2.96	26.5298
Total:			**1.823**	**11.457**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**12.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 03:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

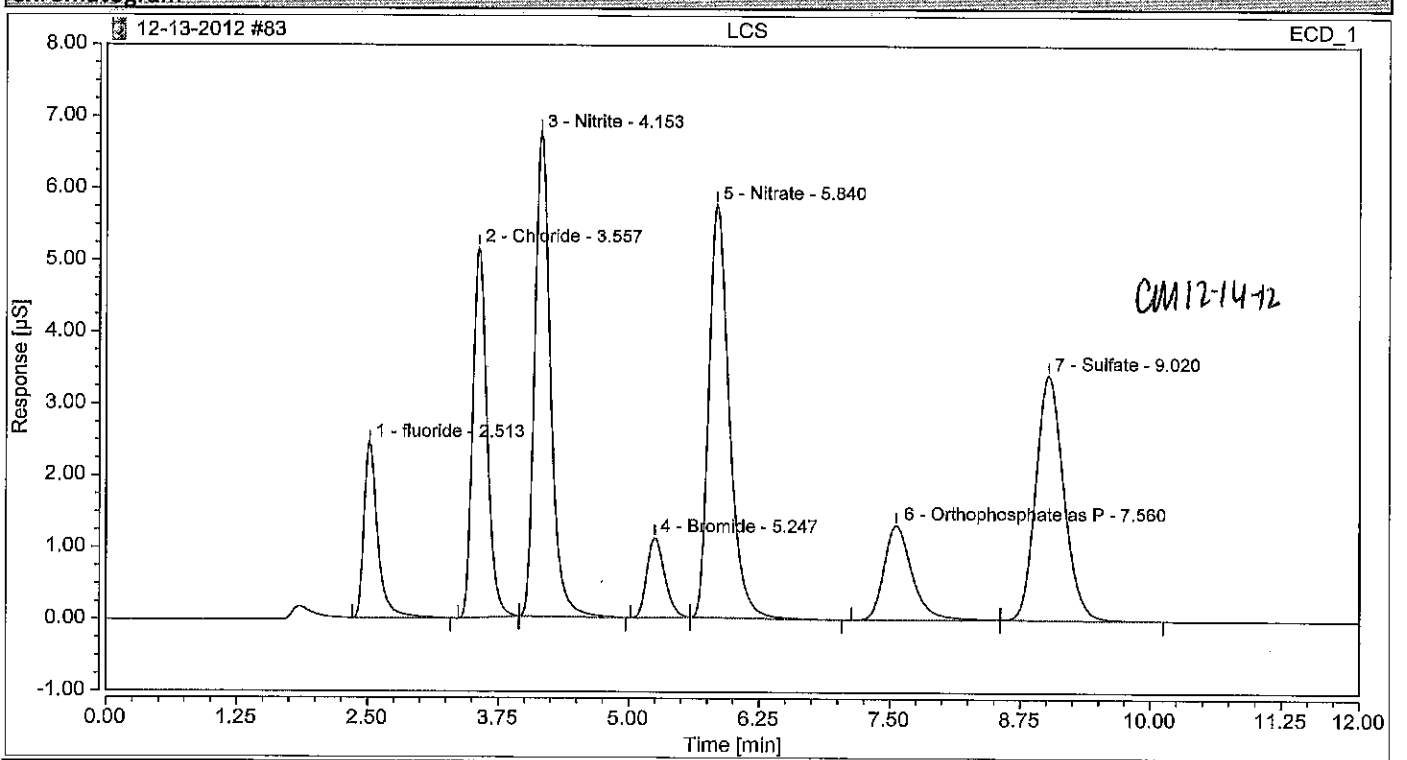
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite	3.850	0.004	0.016	21.21	50.22	0.0058
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		5.357	0.014	0.016	78.79	49.78	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:			**0.017**	**0.032**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**12.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 03:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

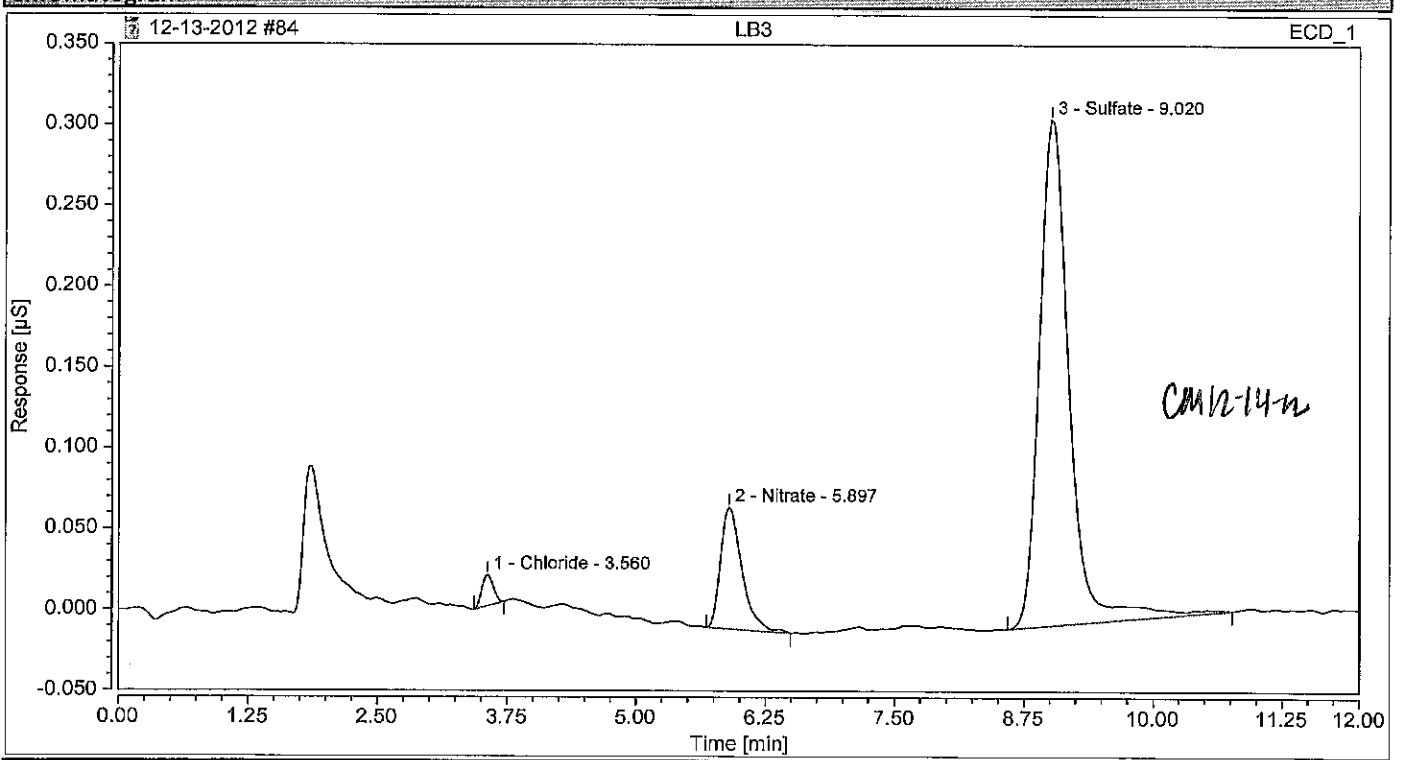
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.376	2.440	6.99	9.42	1.0227
2	Chloride	3.557	0.811	5.150	15.09	19.88	2.8926
3	Nitrite	4.153	1.187	6.731	22.09	25.98	1.8521
4	Bromide	5.247	0.221	1.112	4.10	4.29	2.0223
5	Nitrate	5.840	1.310	5.749	24.38	22.19	1.9672
6	Orthophosphate as P	7.560	0.415	1.318	7.72	5.09	2.0818
7	Sulfate	9.020	1.055	3.407	19.63	13.15	5.3776
Total:			**5.373**	**25.908**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LB3**	*Run Time (min):*	**12.00**
Vial Number:	**BA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

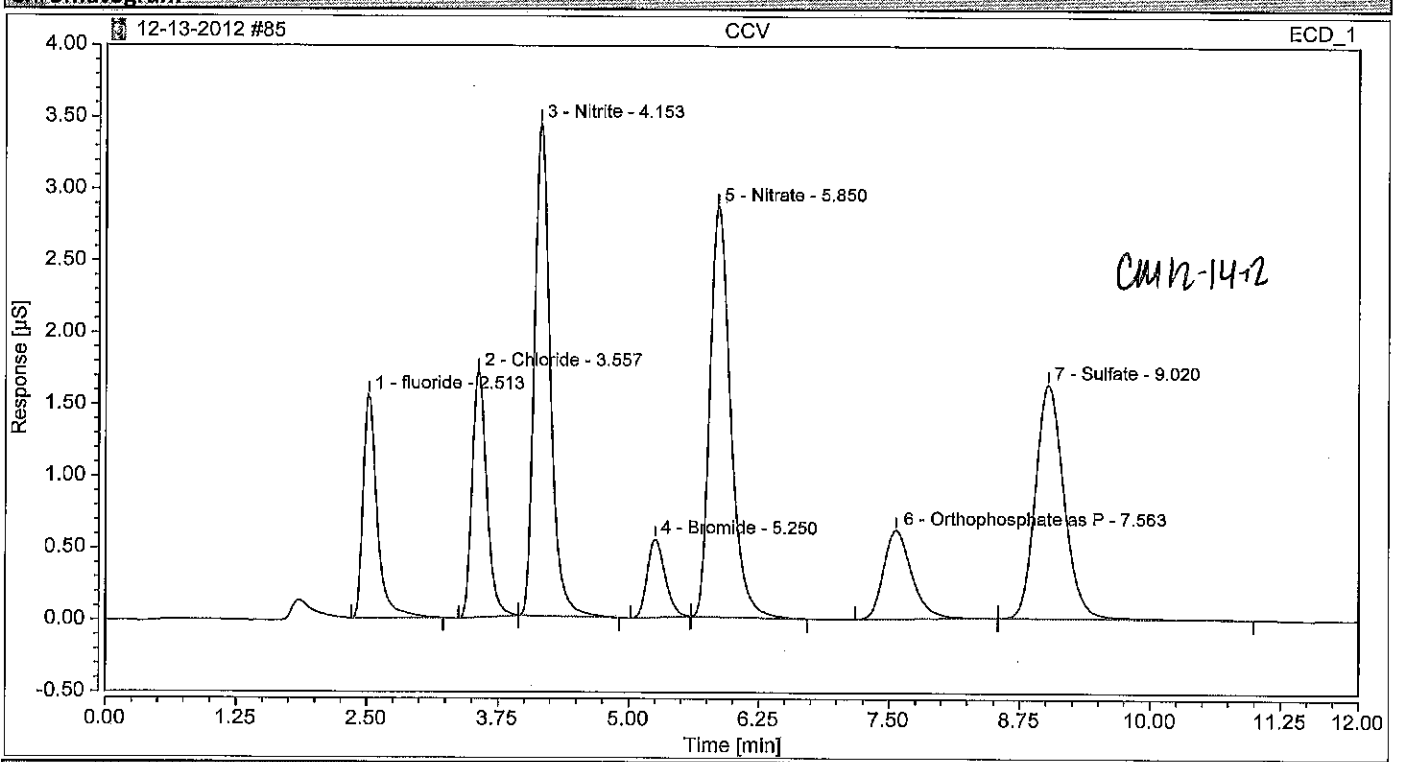
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.560	0.002	0.019	1.93	4.69	0.0087
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.897	0.018	0.075	14.29	18.46	0.0270
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.020	0.106	0.313	83.78	76.85	0.5385
Total:			**0.126**	**0.408**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

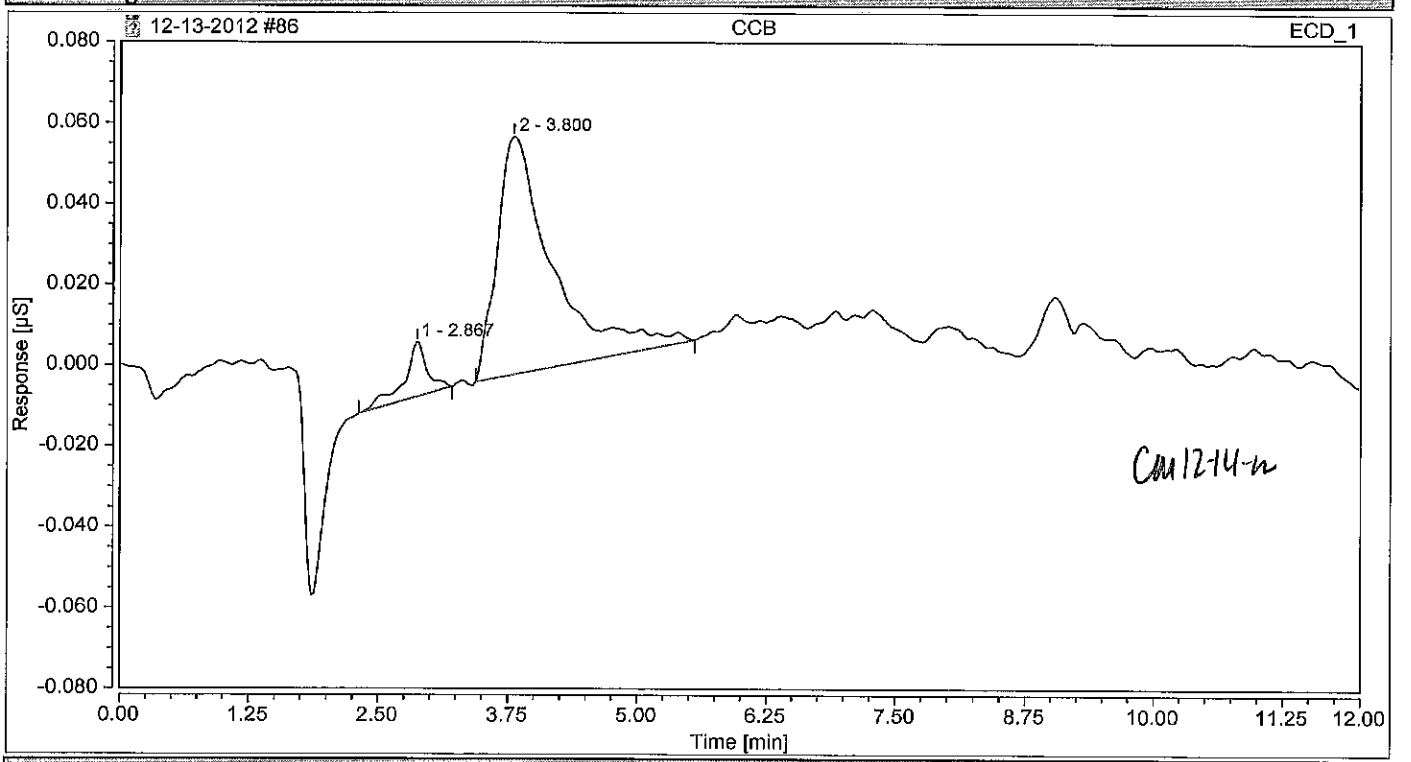
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.242	1.555	9.27	12.60	0.6584
2	Chloride	3.557	0.275	1.712	10.52	13.87	0.9795
3	Nitrite	4.153	0.609	3.430	23.33	27.79	0.9497
4	Bromide	5.250	0.109	0.544	4.17	4.41	0.9971
5	Nitrate	5.850	0.662	2.857	25.39	23.14	0.9945
6	Orthophosphate as P	7.563	0.194	0.618	7.45	5.00	0.9767
7	Sulfate	9.020	0.518	1.628	19.87	13.19	2.6434
Total:			**2.609**	**12.344**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

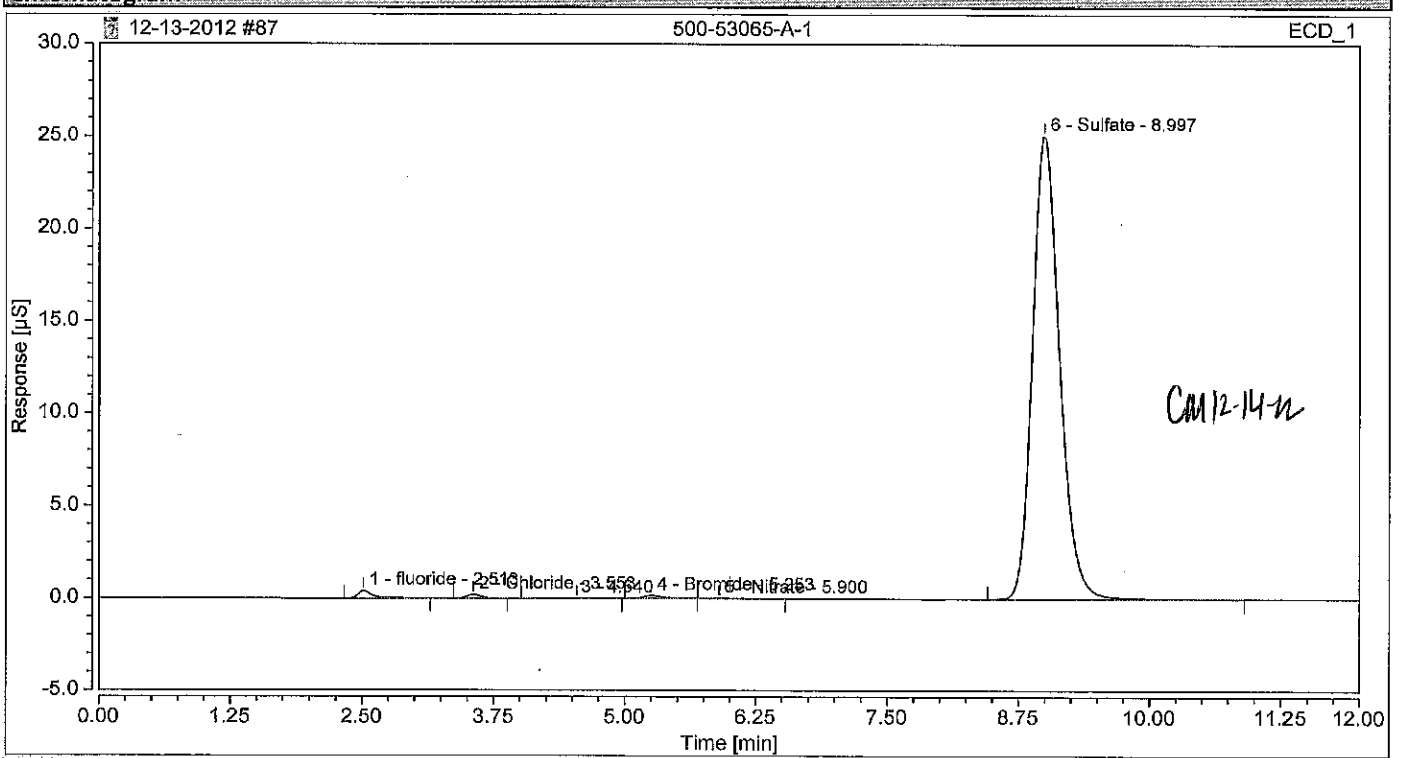
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.867	0.004	0.014	8.81	18.68	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.800	0.036	0.059	91.19	81.32	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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:			**0.040**	**0.072**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 04:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

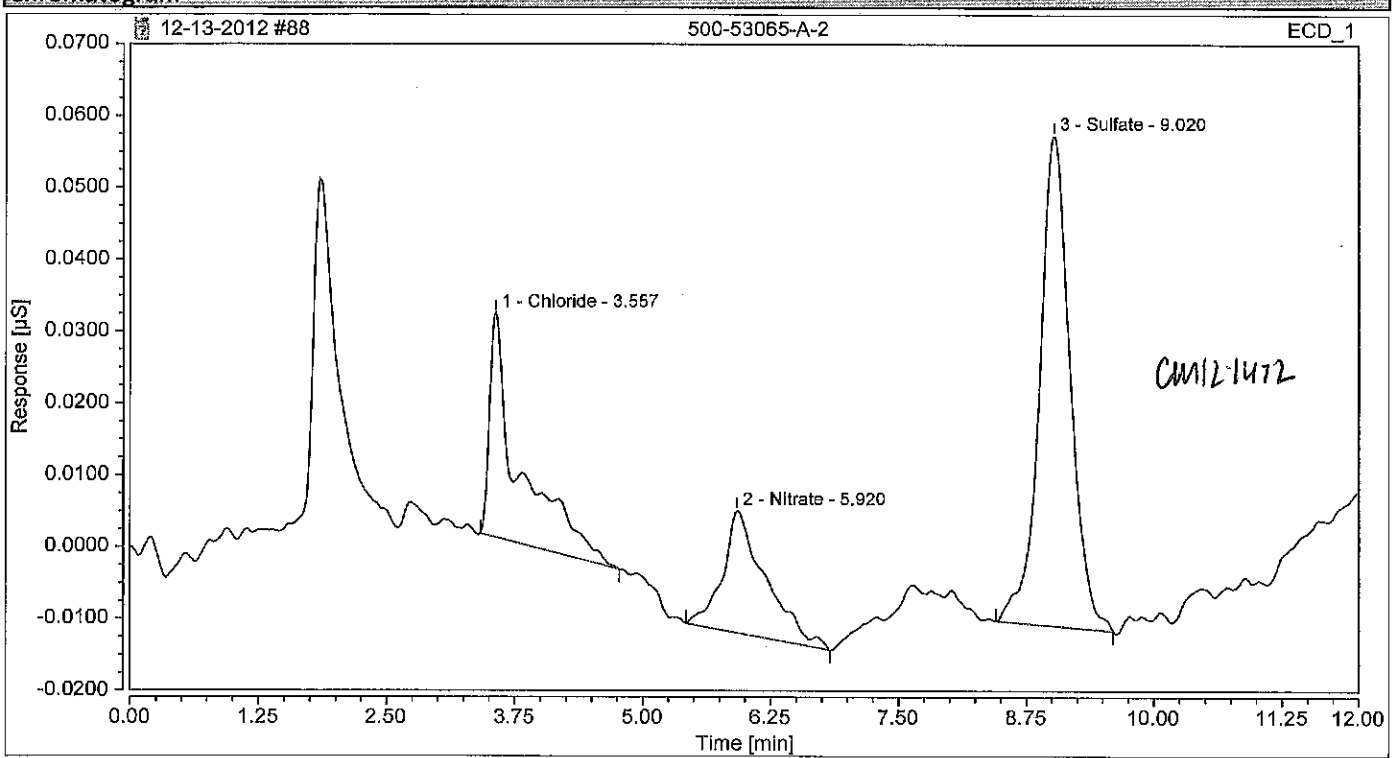
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.069	0.416	0.90	1.61	1.8712
2	Chloride m	3.553	0.033	0.213	0.43	0.82	1.1856
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.540	0.006	0.011	0.08	0.04	n.a.
4	Bromide m	5.253	0.033	0.156	0.43	0.60	3.0261
5	Nitrate m	5.900	0.007	0.024	0.10	0.09	0.1109
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	8.997	7.526	25.096	98.07	96.84	383.7698
Total:			**7.674**	**25.916**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 04:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

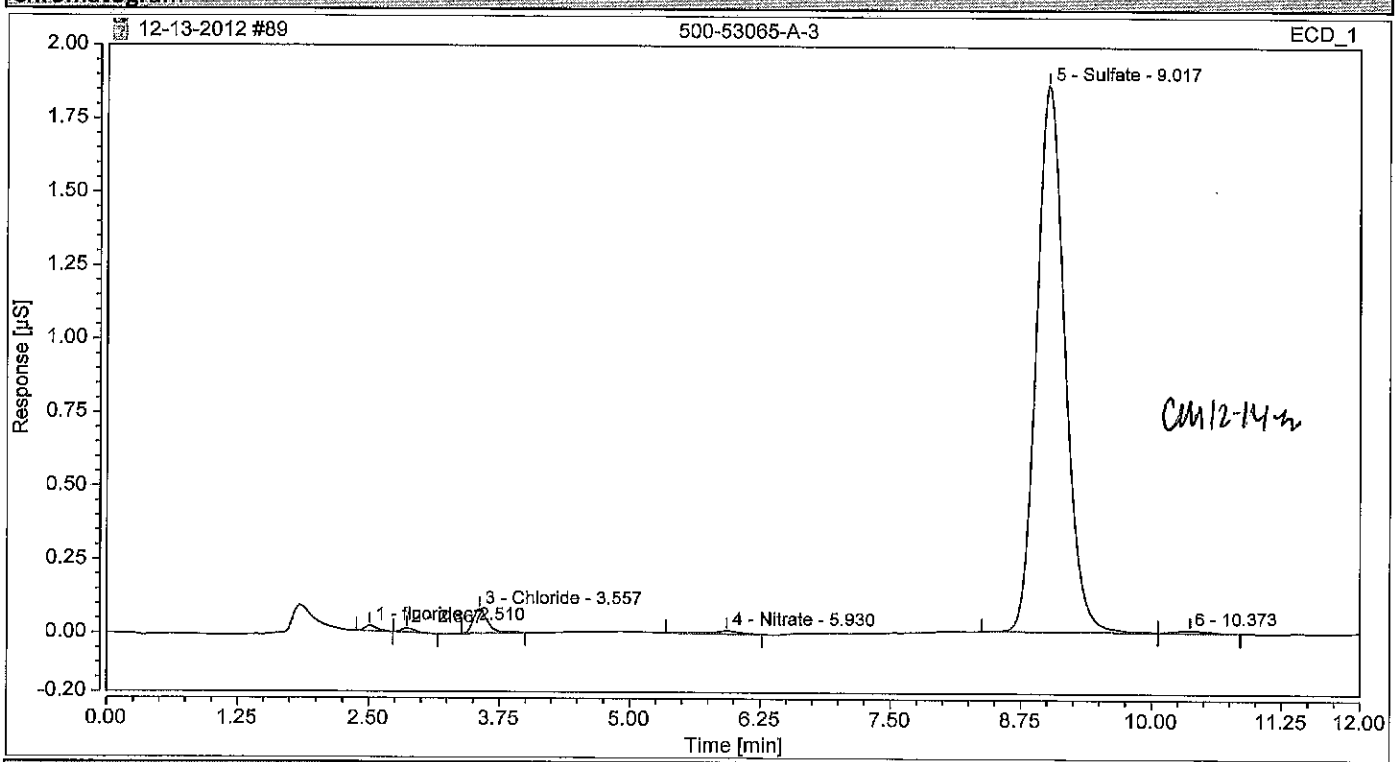
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride m	3.557	0.010	0.031	24.39	26.78	0.3694
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate m	5.920	0.008	0.017	19.47	14.60	0.1241
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.020	0.024	0.068	56.14	58.61	1.2153
Total:			**0.042**	**0.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 05:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

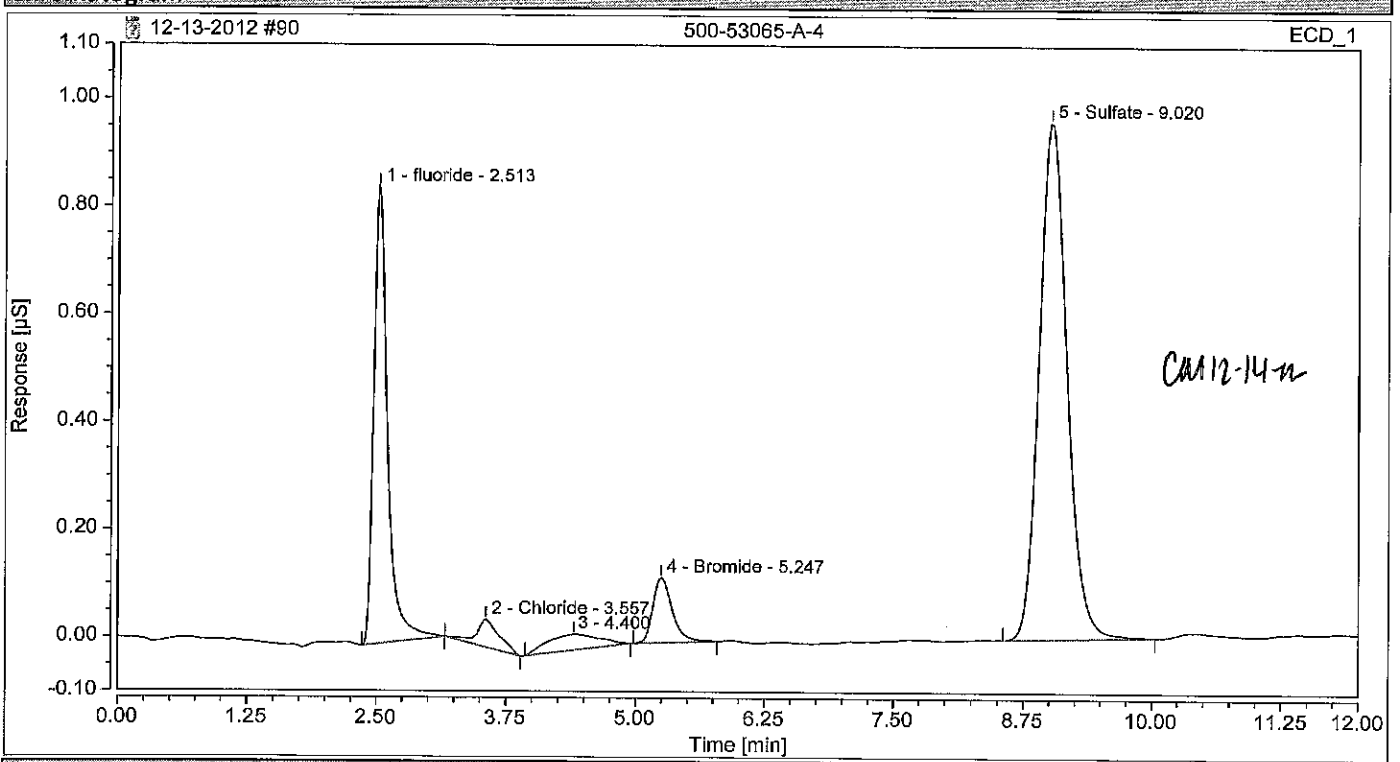
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.003	0.018	0.41	0.92	0.0683
2		2.867	0.002	0.014	0.32	0.69	n.a.
3	Chloride	3.557	0.013	0.082	2.19	4.13	0.4737
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.930	0.003	0.010	0.50	0.52	0.0459
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.017	0.583	1.858	96.07	93.31	29.7536
6		10.373	0.003	0.009	0.51	0.43	n.a.
Total:			**0.607**	**1.992**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 05:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

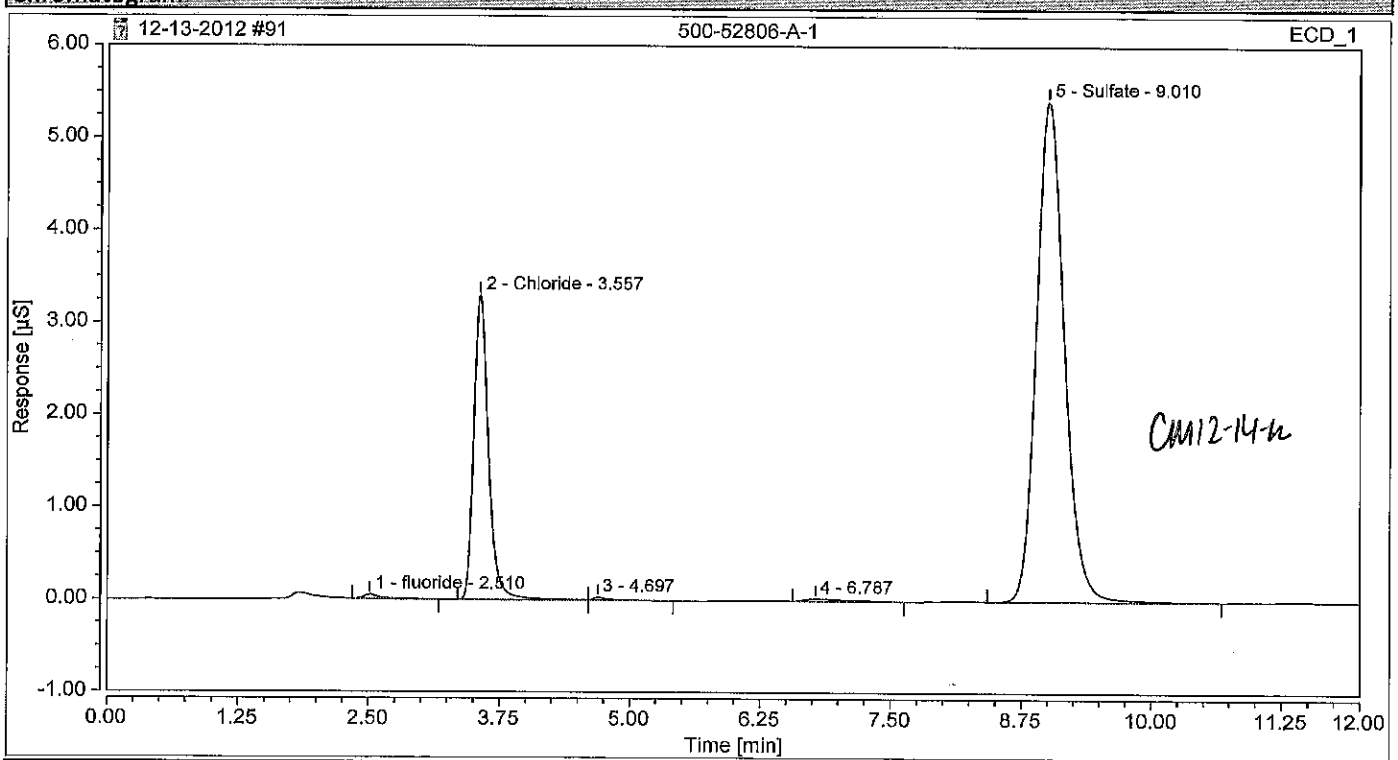
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.131	0.848	26.71	42.24	3.5566
2	Chloride 0)	3.557	0.013	0.051	2.68	2.55	0.4668
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.400	0.017	0.029	3.42	1.43	n.a.
4	Bromide m	5.247	0.026	0.121	5.40	6.00	2.4230
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.020	0.302	0.959	61.80	47.78	15.4101
Total:			**0.489**	**2.008**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 05:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

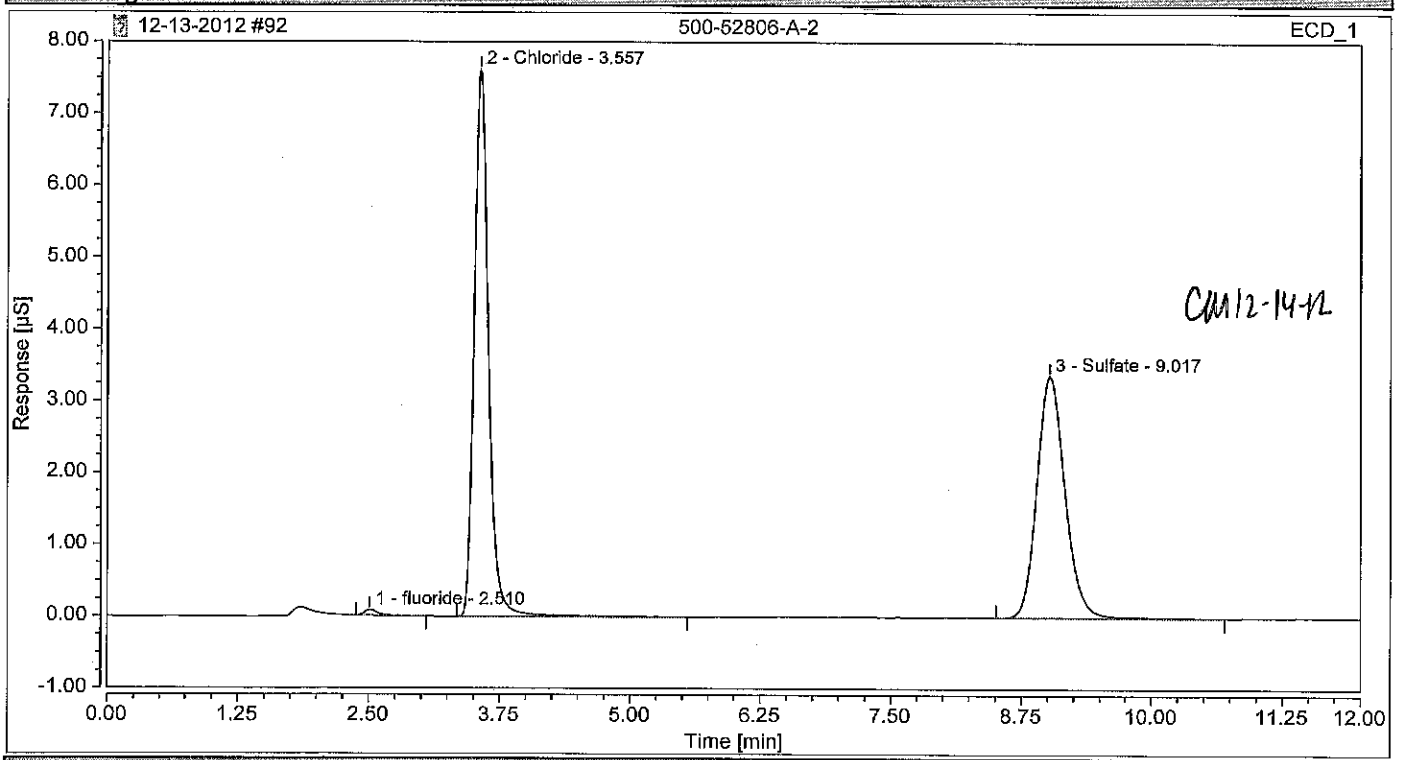
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.008	0.046	0.36	0.52	0.4464
2	Chloride bk	3.557	0.533	3.297	23.73	37.37	38.0460
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.697	0.005	0.030	0.23	0.34	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.787	0.014	0.029	0.61	0.33	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.010	1.687	5.421	75.07	61.45	172.0072
Total:			**2.247**	**8.822**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 05:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

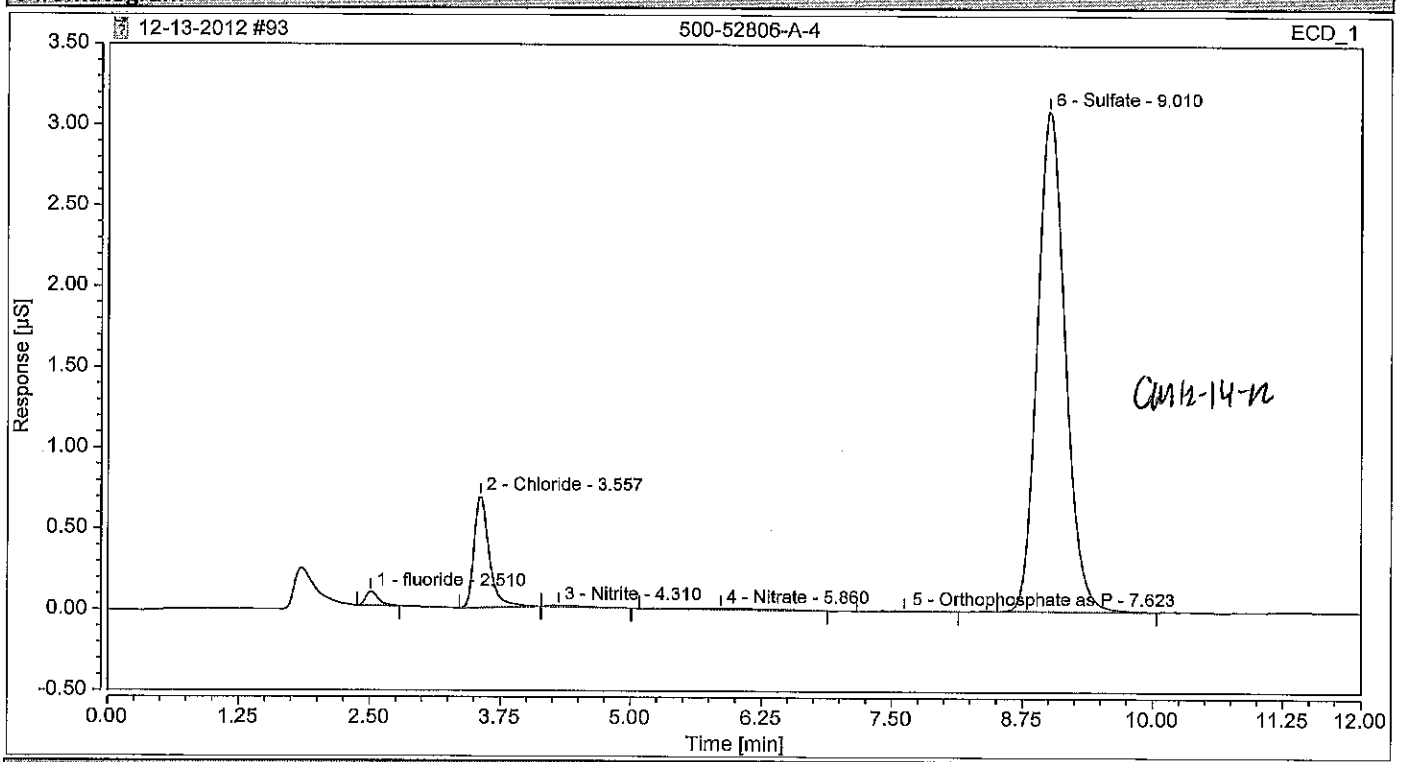
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.012	0.078	0.54	0.71	0.6703
2	Chloride	3.557	1.217	7.618	53.28	68.88	86.8109
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.017	1.055	3.364	46.18	30.42	107.5575
Total:			**2.283**	**11.061**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 06:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

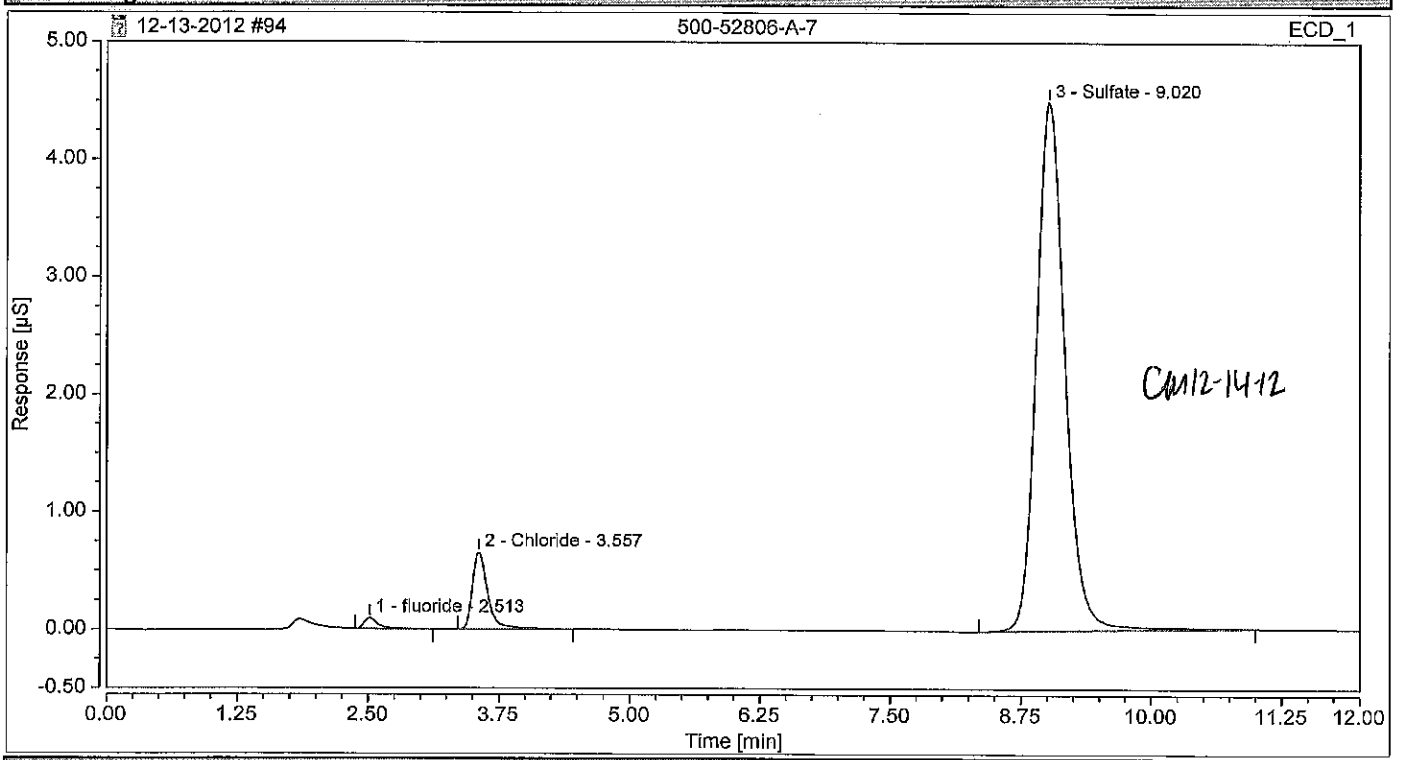
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.012	0.087	1.11	2.23	0.6706
2	Chloride RV	3.557	0.115	0.690	10.42	17.74	8.2224
3	Nitrite m	4.310	0.003	0.009	0.30	0.24	0.1018
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.860	0.007	0.007	0.61	0.17	0.2042
5	Orthophosphate as P m	7.623	0.002	0.004	0.20	0.11	0.2270
6	Sulfate	9.010	0.966	3.095	87.35	79.51	98.4712
Total:			**1.105**	**3.893**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-7**	*Run Time (min):*	**12.00**
Vial Number:	**BB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 06:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

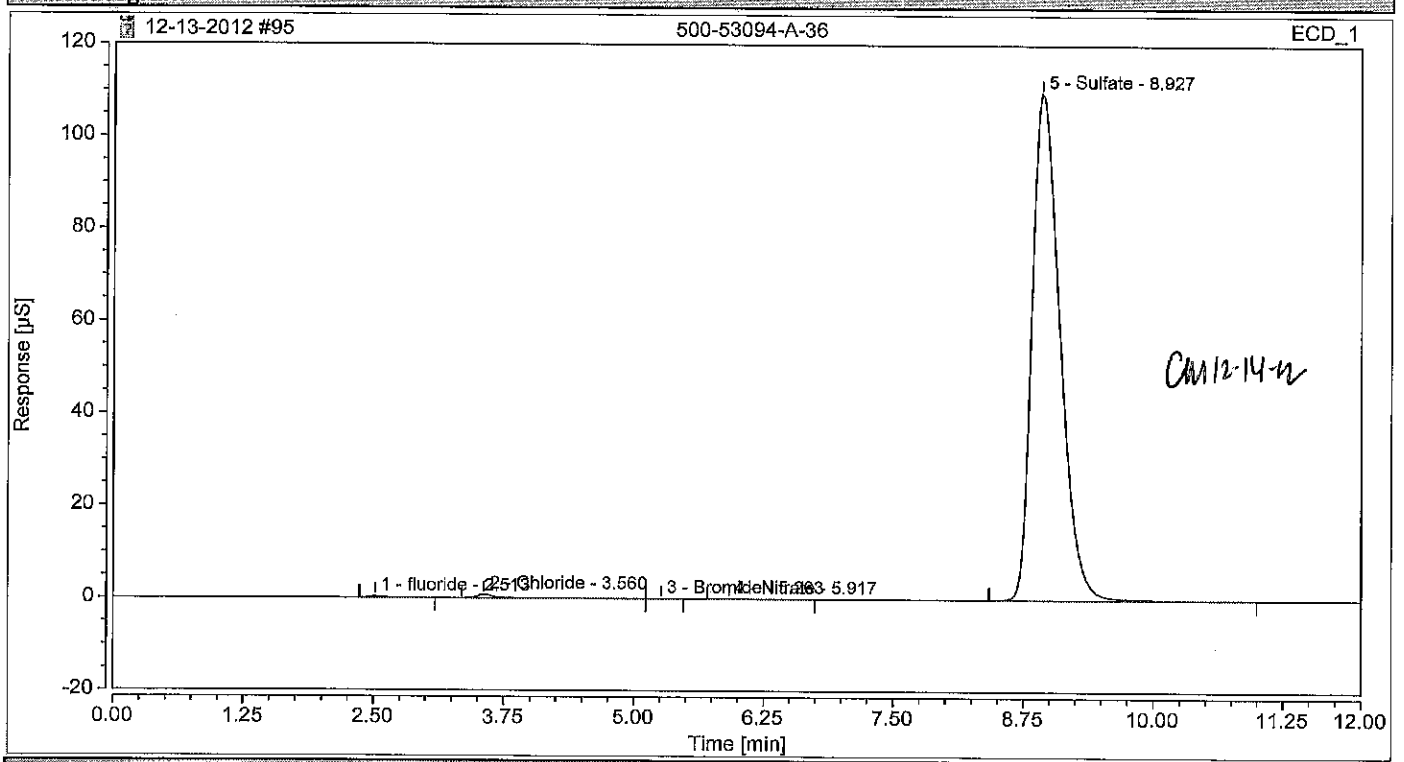
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.015	0.092	0.95	1.75	0.8060
2	Chloride RE	3.557	0.111	0.656	7.13	12.50	7.9225
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.020	1.431	4.497	91.92	85.74	145.9260
Total:			**1.557**	**5.245**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-36**	*Run Time (min):*	**12.00**
Vial Number:	**BB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 06:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

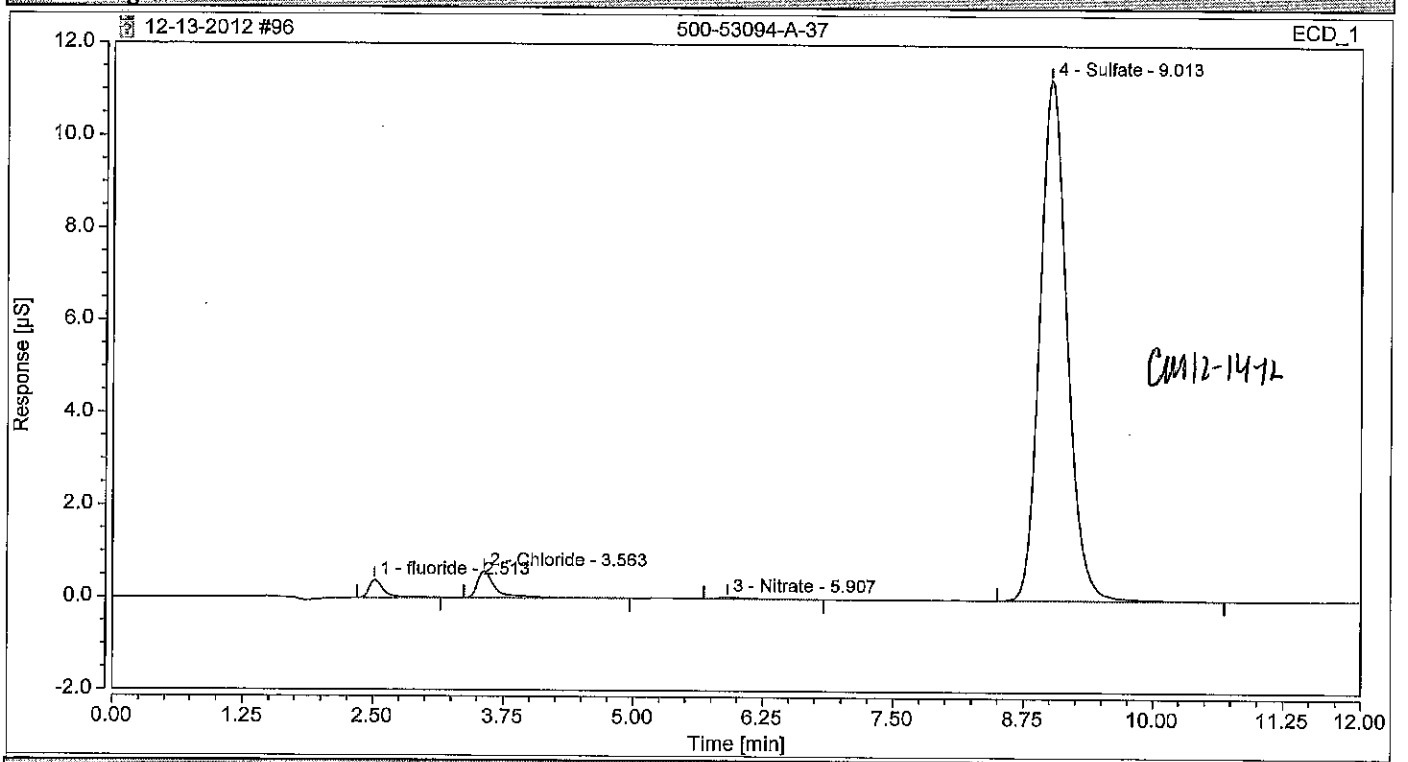
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.048	0.304	0.14	0.27	1.3092
2	Chloride	3.560	0.138	0.756	0.40	0.68	4.9116
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.263	0.001	0.008	0.00	0.01	0.1229
4	Nitrate	5.917	0.010	0.034	0.03	0.03	0.1444
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.927	34.340	109.716	99.43	99.01	1751.1537
Total:			**34.537**	**110.818**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-37**	*Run Time (min):*	**12.00**
Vial Number:	**BB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 06:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

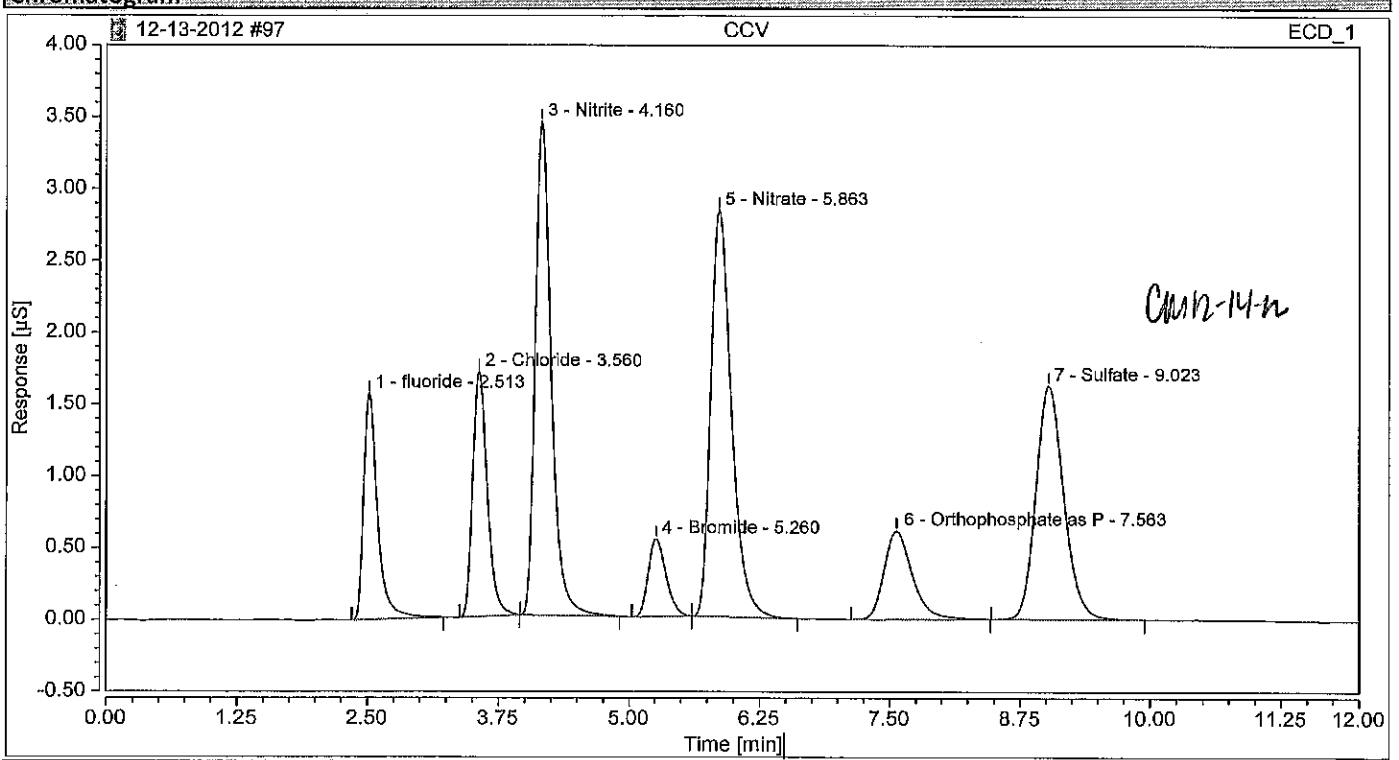
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.061	0.386	1.68	3.15	1.6534
2	Chloride m	3.563	0.118	0.570	3.25	4.65	4.1948
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.907	0.010	0.031	0.28	0.26	0.1504
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.013	3.427	11.264	94.79	91.94	174.7702
Total:			**3.616**	**12.252**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 06:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

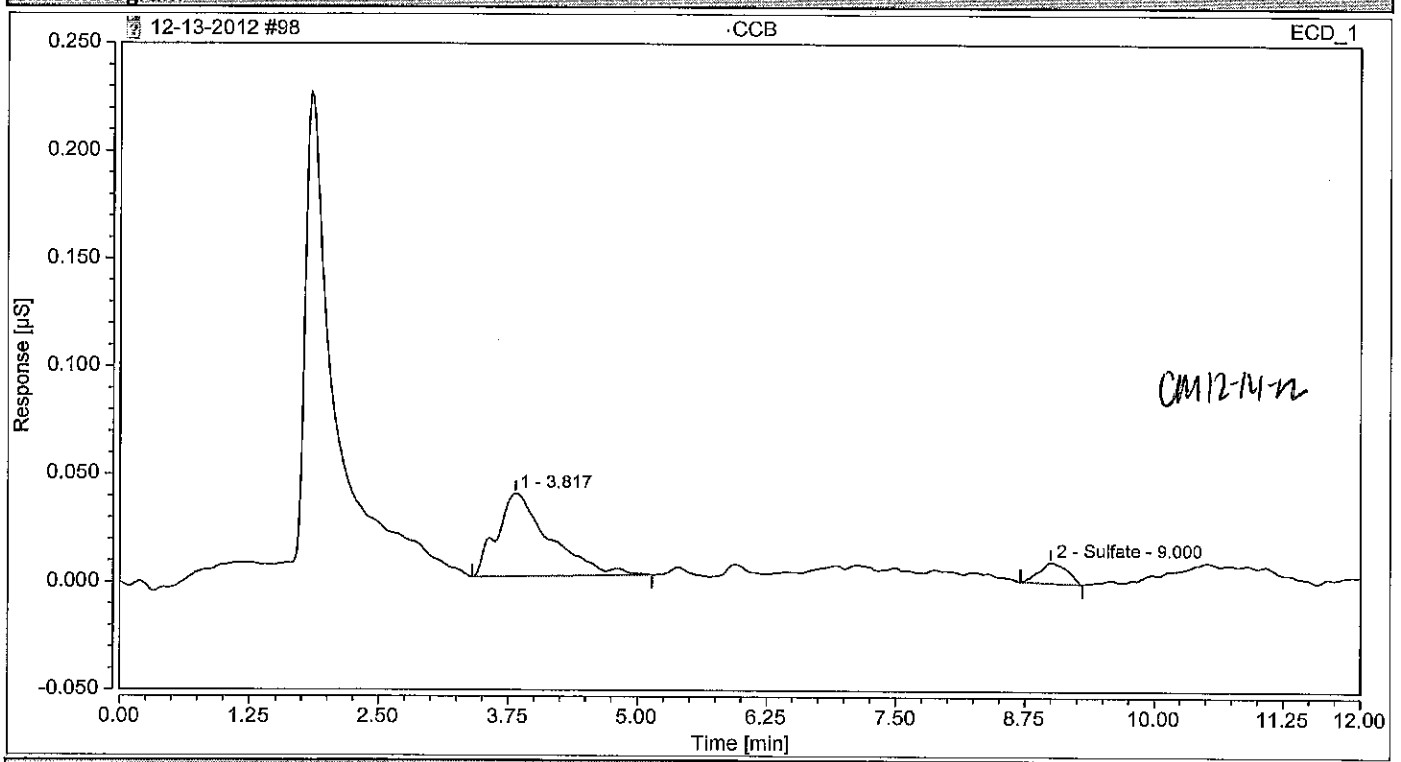
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.574	9.30	12.77	0.6535
2	Chloride	3.560	0.271	1.705	10.52	13.83	0.9680
3	Nitrite	4.160	0.609	3.434	23.61	27.87	0.9501
4	Bromide	5.260	0.108	0.541	4.18	4.39	0.9879
5	Nitrate	5.863	0.649	2.827	25.18	22.94	0.9752
6	Orthophosphate as P	7.563	0.193	0.616	7.49	5.00	0.9700
7	Sulfate	9.023	0.508	1.625	19.71	13.19	2.5919
Total:			**2.579**	**12.321**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 07:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

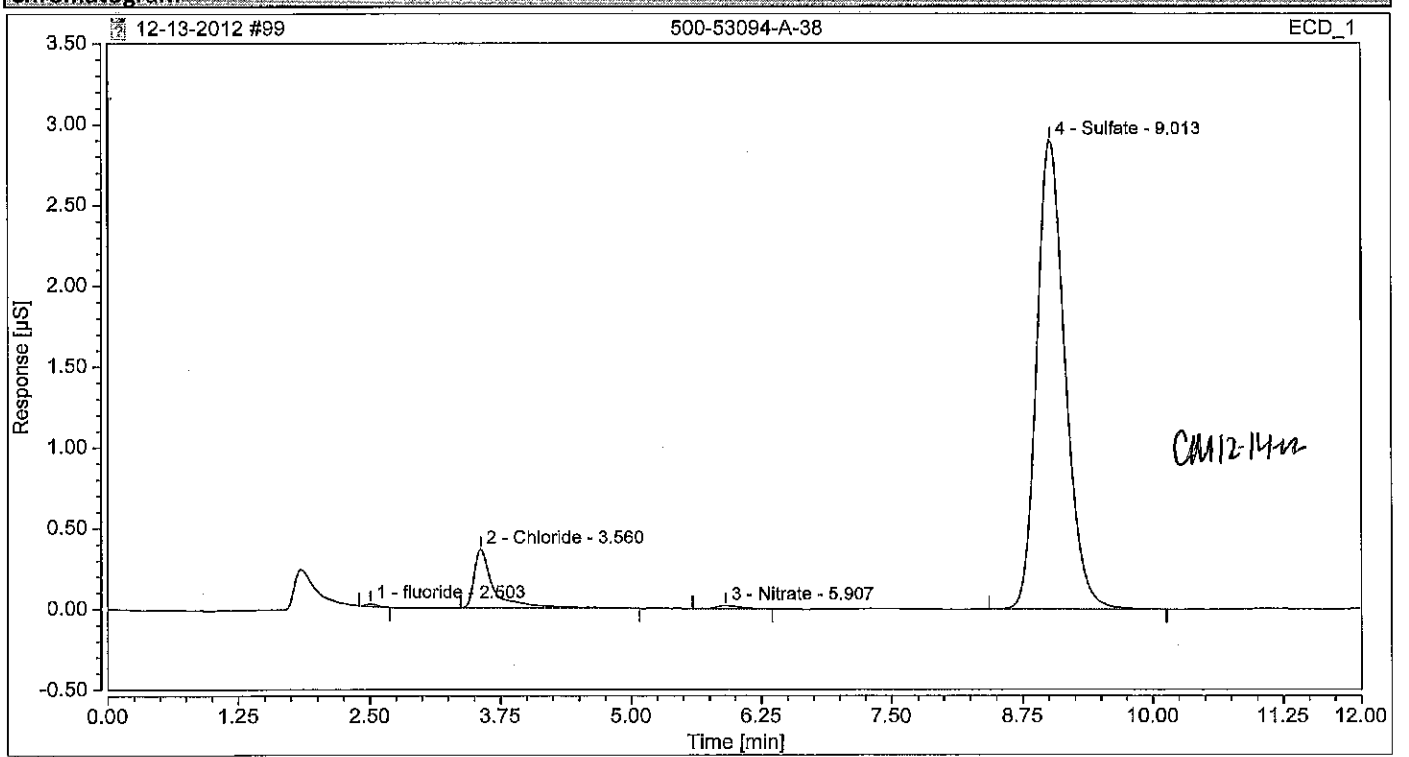
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.817	0.023	0.038	88.13	80.08	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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	9.000	0.003	0.010	11.87	19.92	0.0157
Total:			**0.026**	**0.048**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-38**	*Run Time (min):*	**12.00**
Vial Number:	**BB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 07:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

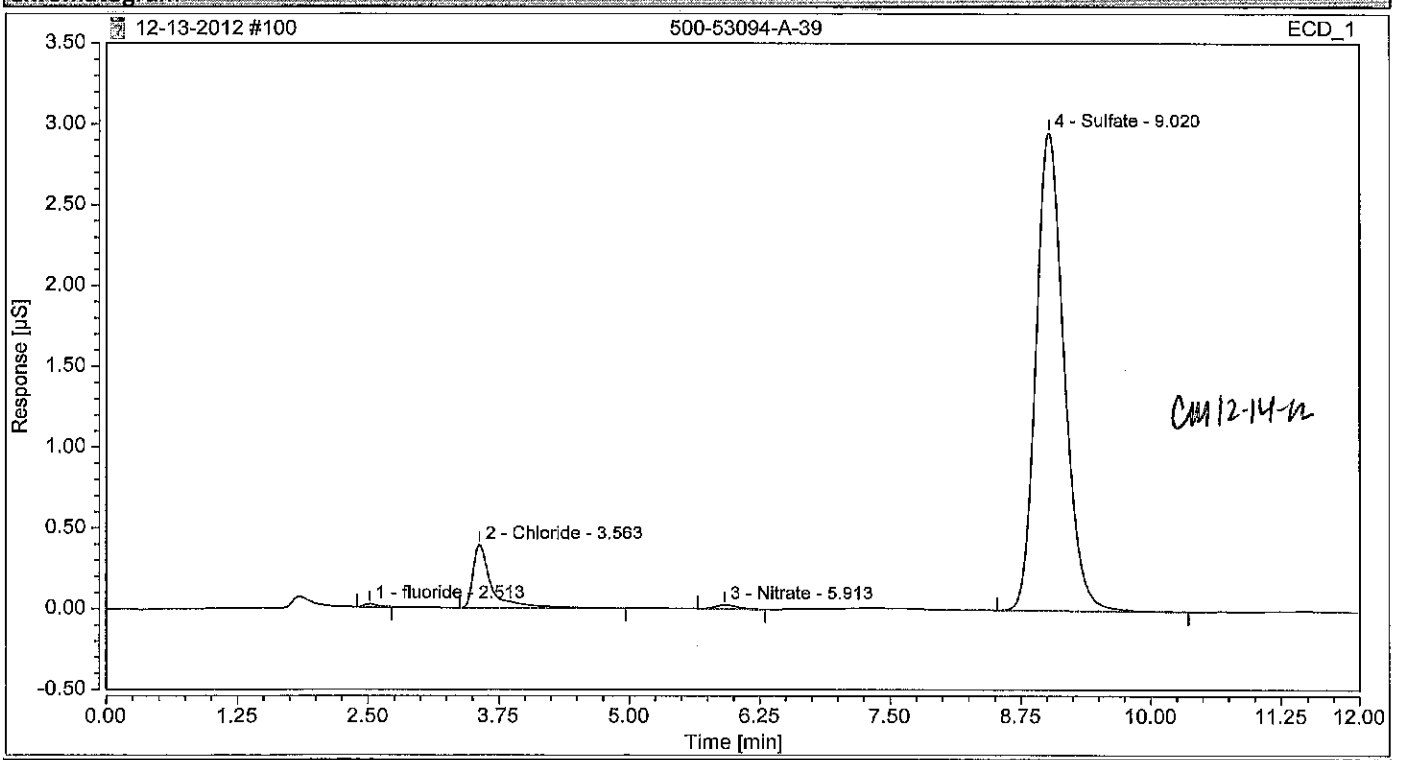
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.503	0.002	0.015	0.19	0.46	0.0520
2	Chloride	3.560	0.080	0.363	8.02	11.00	2.8542
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.907	0.005	0.020	0.53	0.62	0.0792
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.013	0.910	2.902	91.26	87.91	46.3938
Total:			**0.997**	**3.301**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-39**	*Run Time (min):*	**12.00**
Vial Number:	**BB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 07:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

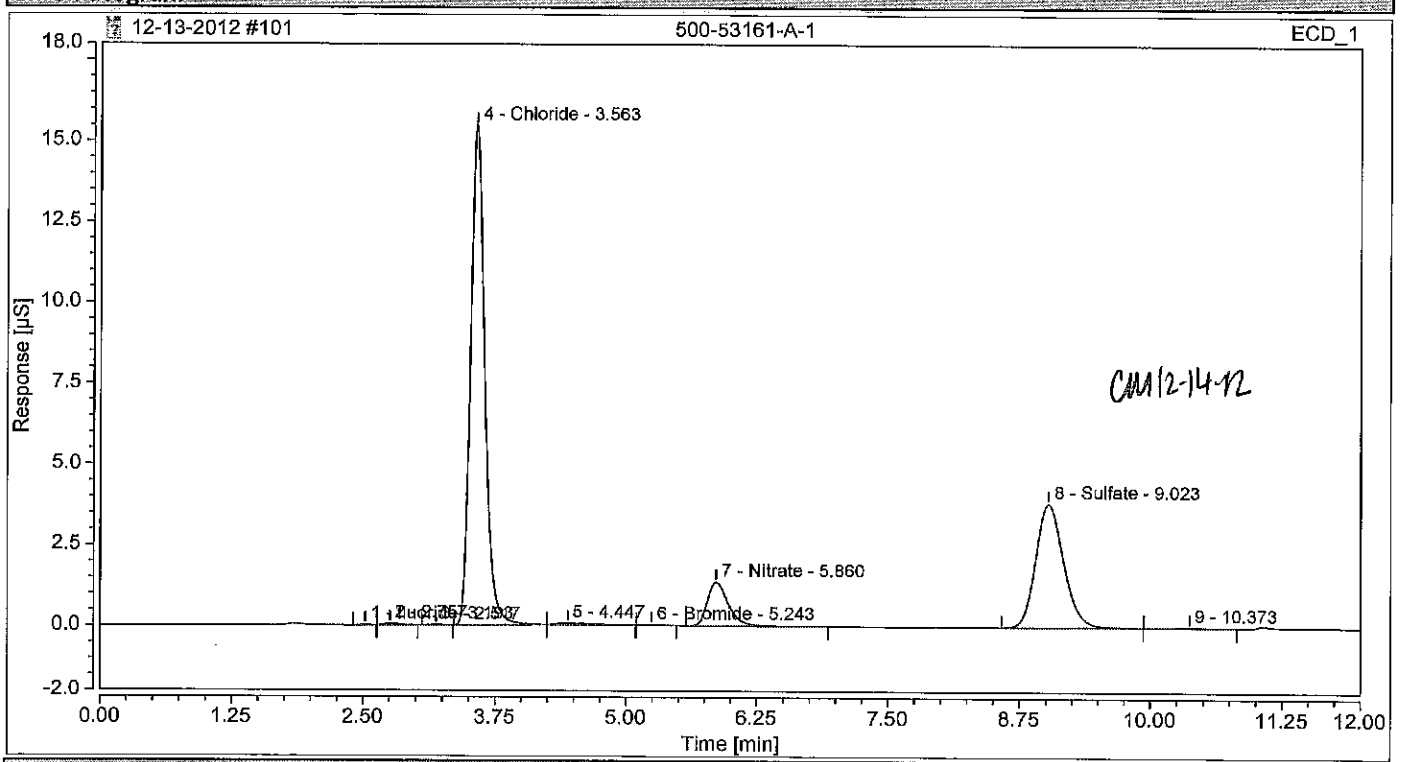
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.003	0.019	0.26	0.56	0.0705
2	Chloride	3.563	0.081	0.392	8.00	11.55	2.8954
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.913	0.006	0.025	0.59	0.74	0.0894
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	0.925	2.960	91.16	87.14	47.1634
Total:			**1.015**	**3.397**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 07:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

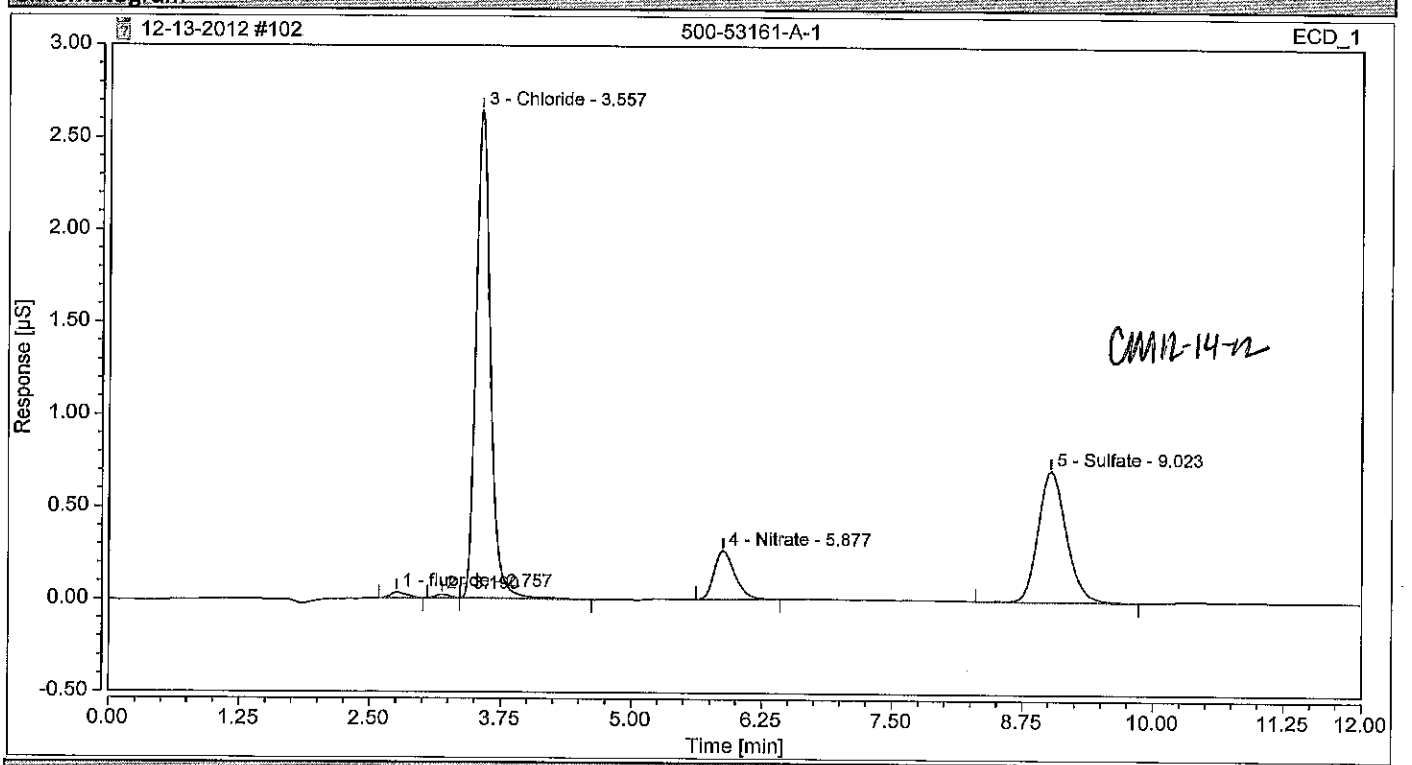
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.014	0.04	0.07	0.0853
2		2.757	0.009	0.052	0.22	0.25	n.a.
3		3.193	0.003	0.019	0.07	0.09	n.a.
4	Chloride OK	3.563	2.405	15.458	61.04	74.33	171.6048
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.447	0.019	0.049	0.49	0.23	n.a.
6	Bromide AV	5.243	0.003	0.016	0.07	0.08	0.5169
7	Nitrate m	5.860	0.315	1.353	8.00	6.51	9.4610
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate m	9.023	1.179	3.820	29.93	18.37	120.2734
9		10.373	0.006	0.017	0.14	0.08	n.a.
Total:			**3.940**	**20.797**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 08:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

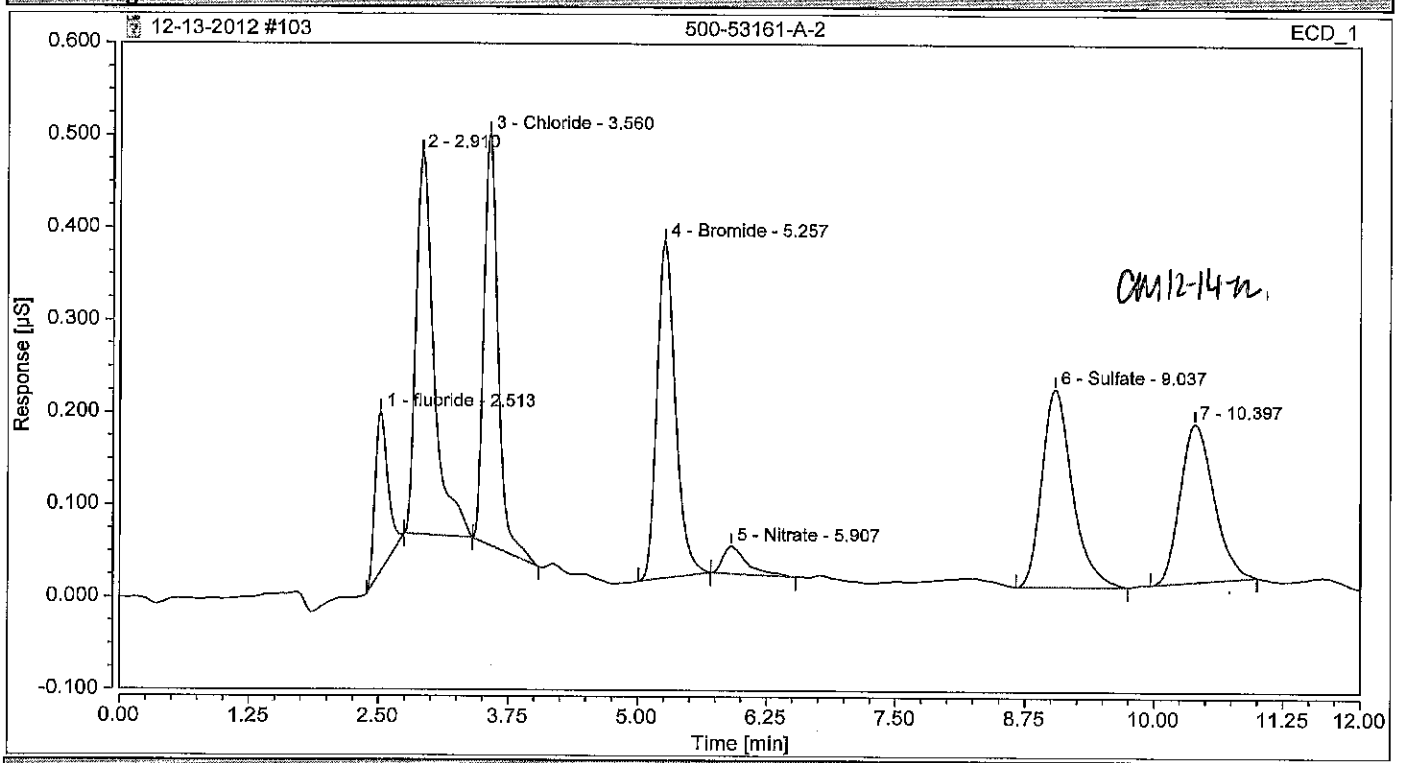
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.757	0.006	0.032	0.80	0.88	1.5372
2		3.190	0.003	0.019	0.40	0.52	n.a.
3	Chloride	3.557	0.416	2.640	58.70	72.09	148.5670
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.877	0.061	0.263	8.58	7.17	9.1352
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.023	0.224	0.708	31.53	19.34	114.0644
Total:			**0.709**	**3.662**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 08:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

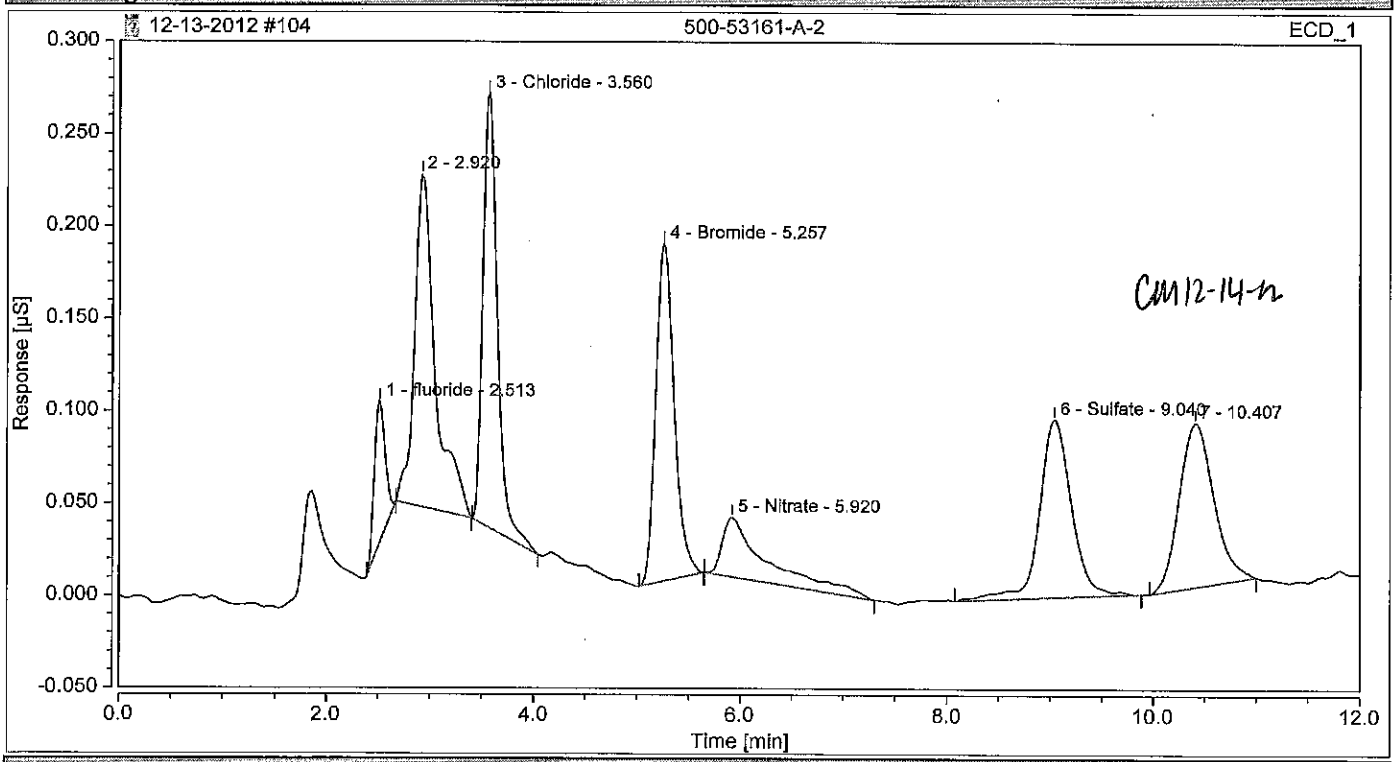
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.024	0.173	5.93	9.56	32.3260
2		2.910	0.083	0.413	20.74	22.82	n.a.
3	Chloride AU	3.560	0.071	0.444	17.66	24.56	126.1533
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide AU	5.257	0.076	0.364	19.05	20.11	349.7716
5	Nitrate m	5.907	0.008	0.030	2.02	1.63	6.0616
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.037	0.073	0.214	18.33	11.83	187.0964
7		10.397	0.065	0.171	16.28	9.48	n.a.
Total:			**0.400**	**1.809**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**14/Dec/12 08:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

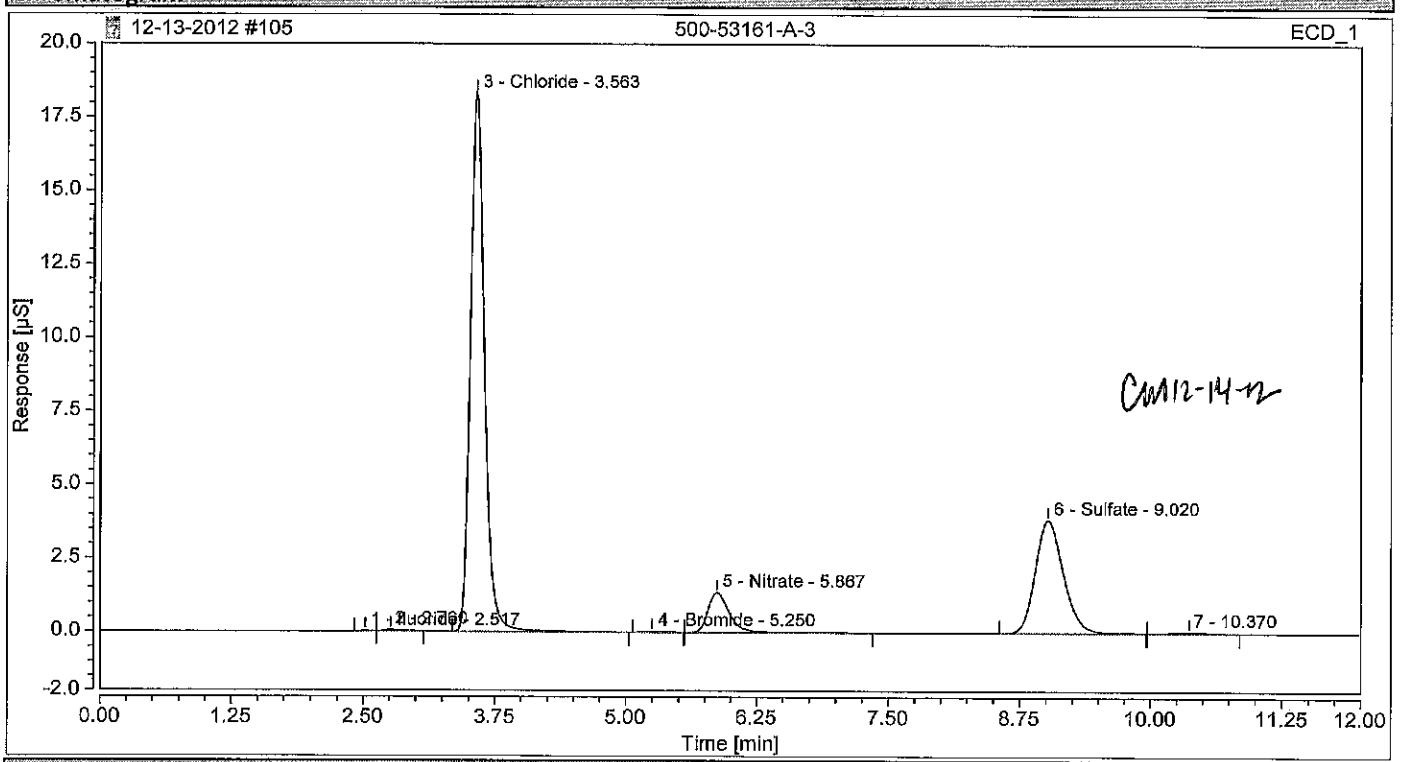
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.009	0.076	4.32	8.58	25.0189
2		2.920	0.042	0.180	19.67	20.21	n.a.
3	Chloride KE	3.560	0.038	0.235	17.85	26.34	135.3389
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide KE	5.257	0.038	0.182	17.73	20.49	345.6696
5	Nitrate m	5.920	0.016	0.032	7.58	3.59	24.1851
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.040	0.035	0.096	16.50	10.81	178.7866
7		10.407	0.035	0.089	16.36	9.98	n.a.
Total:			**0.213**	**0.891**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 08:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

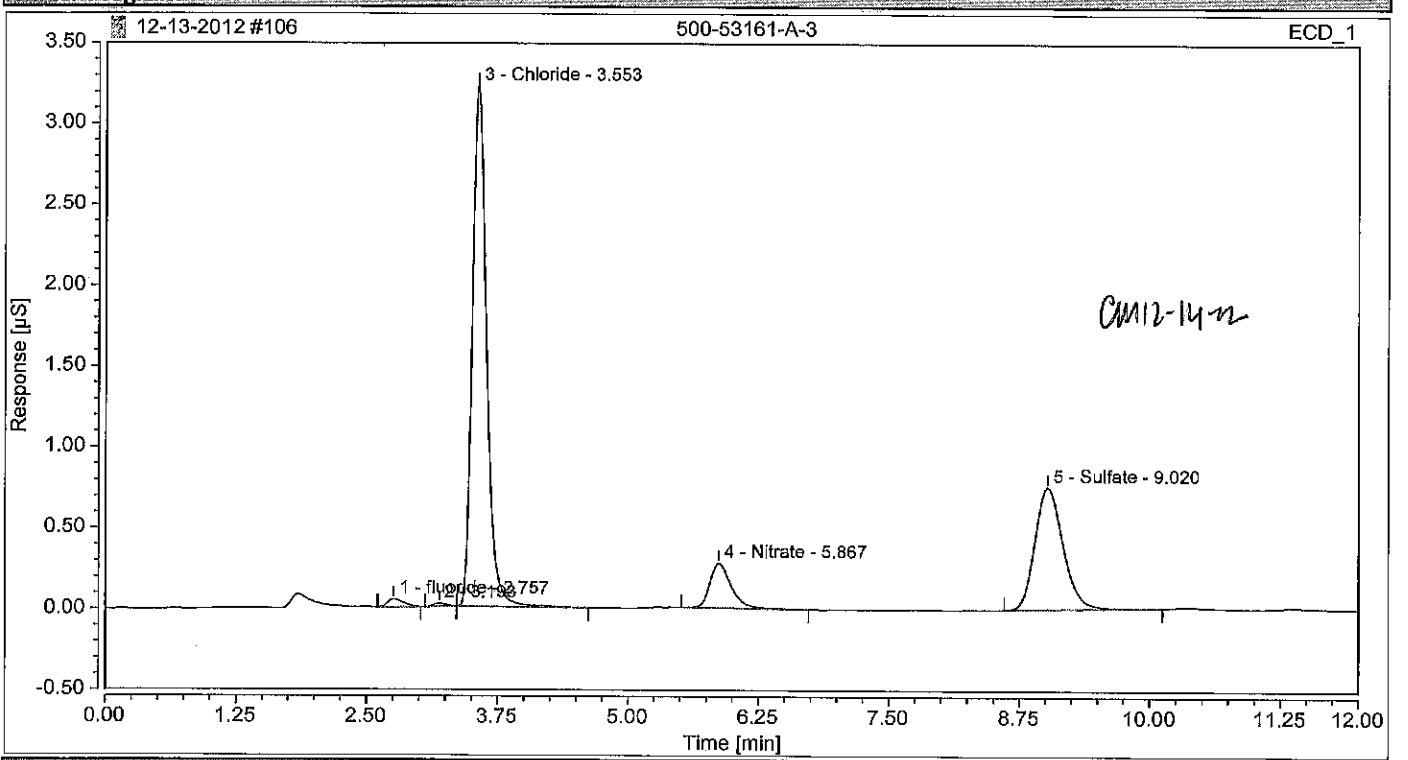
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.017	0.04	0.07	0.0988
2		2.760	0.009	0.047	0.21	0.20	n.a.
3	Chloride m	3.563	2.859	18.322	64.89	77.43	203.9961
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide m	5.250	0.006	0.033	0.15	0.14	1.1888
5	Nitrate m	5.867	0.324	1.358	7.35	5.74	9.7273
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.020	1.190	3.844	27.01	16.24	121.3531
7		10.370	0.015	0.043	0.35	0.18	n.a.
Total:			**4.406**	**23.663**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 08:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

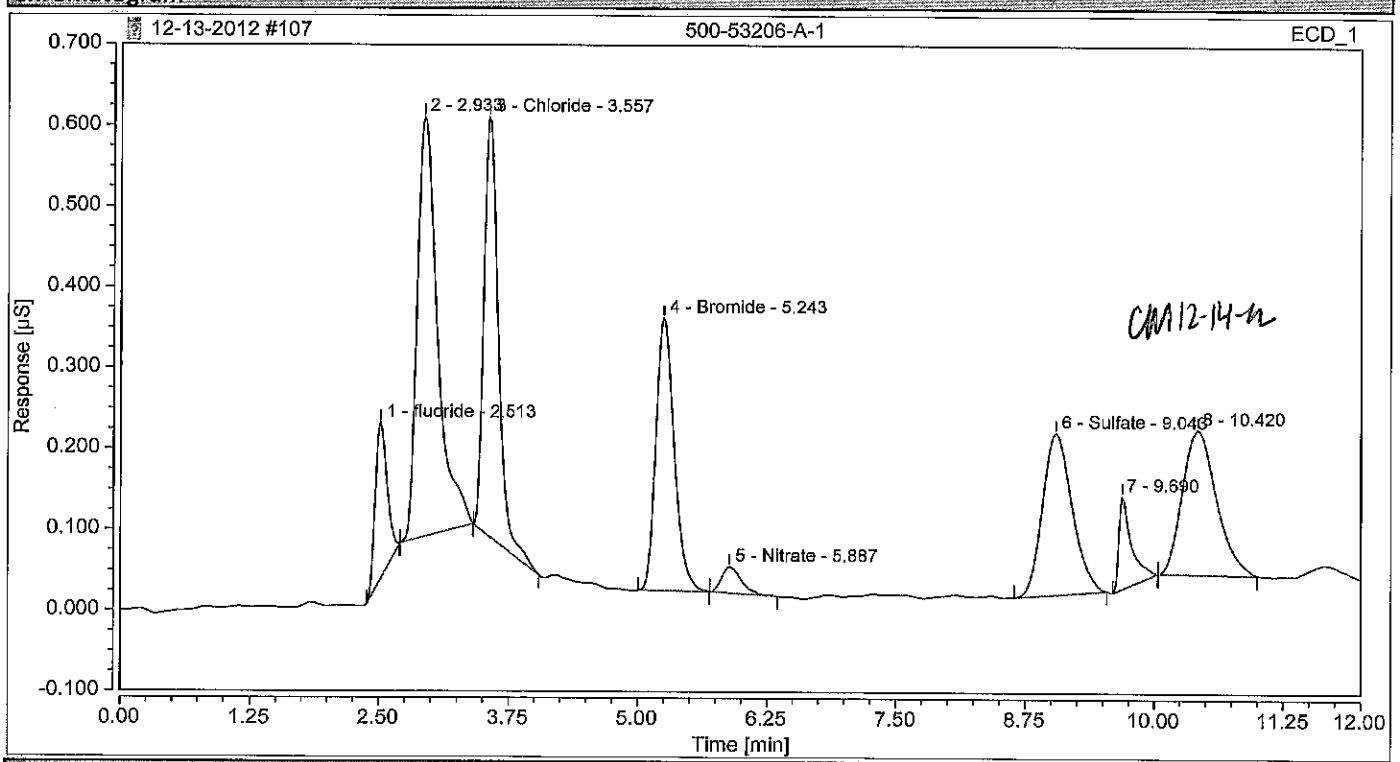
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.757	0.009	0.049	1.05	1.14	2.3676
2		3.193	0.003	0.019	0.35	0.45	n.a.
3	Chloride	3.553	0.511	3.220	61.81	74.55	182.4187
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.867	0.066	0.276	8.02	6.39	9.9665
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.020	0.238	0.755	28.76	17.47	121.3145
Total:			**0.827**	**4.320**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 09:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

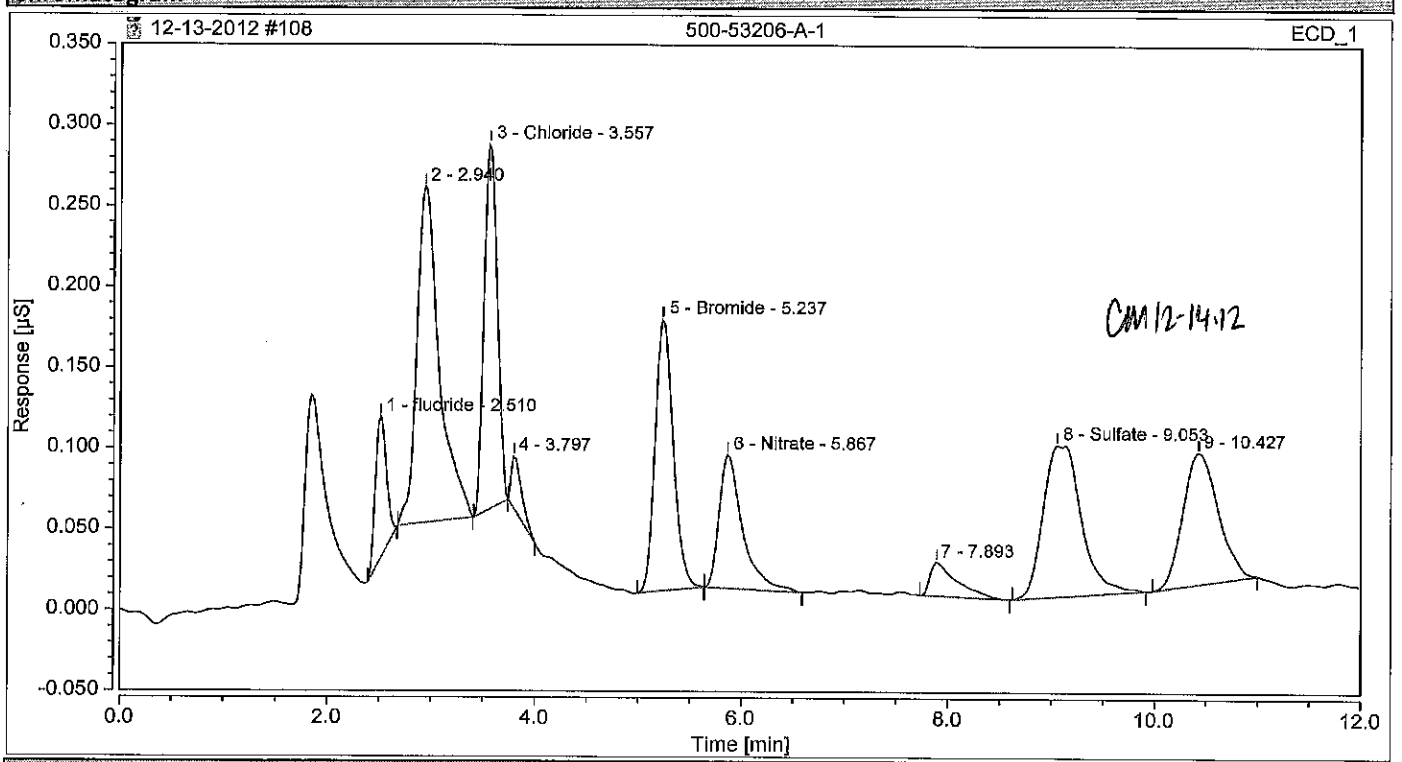
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.025	0.193	5.55	9.21	34.4349
2		2.933	0.118	0.519	25.89	24.83	n.a.
3	Chloride AV	3.557	0.084	0.518	18.53	24.78	150.6471
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide AV	5.243	0.069	0.337	15.20	16.11	317.5368
5	Nitrate m	5.887	0.007	0.032	1.57	1.53	5.3746
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.043	0.066	0.200	14.59	9.55	169.4678
7		9.690	0.016	0.114	3.59	5.47	n.a.
8		10.420	0.069	0.178	15.08	8.52	n.a.
Total:			**0.456**	**2.091**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**14/Dec/12 09:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

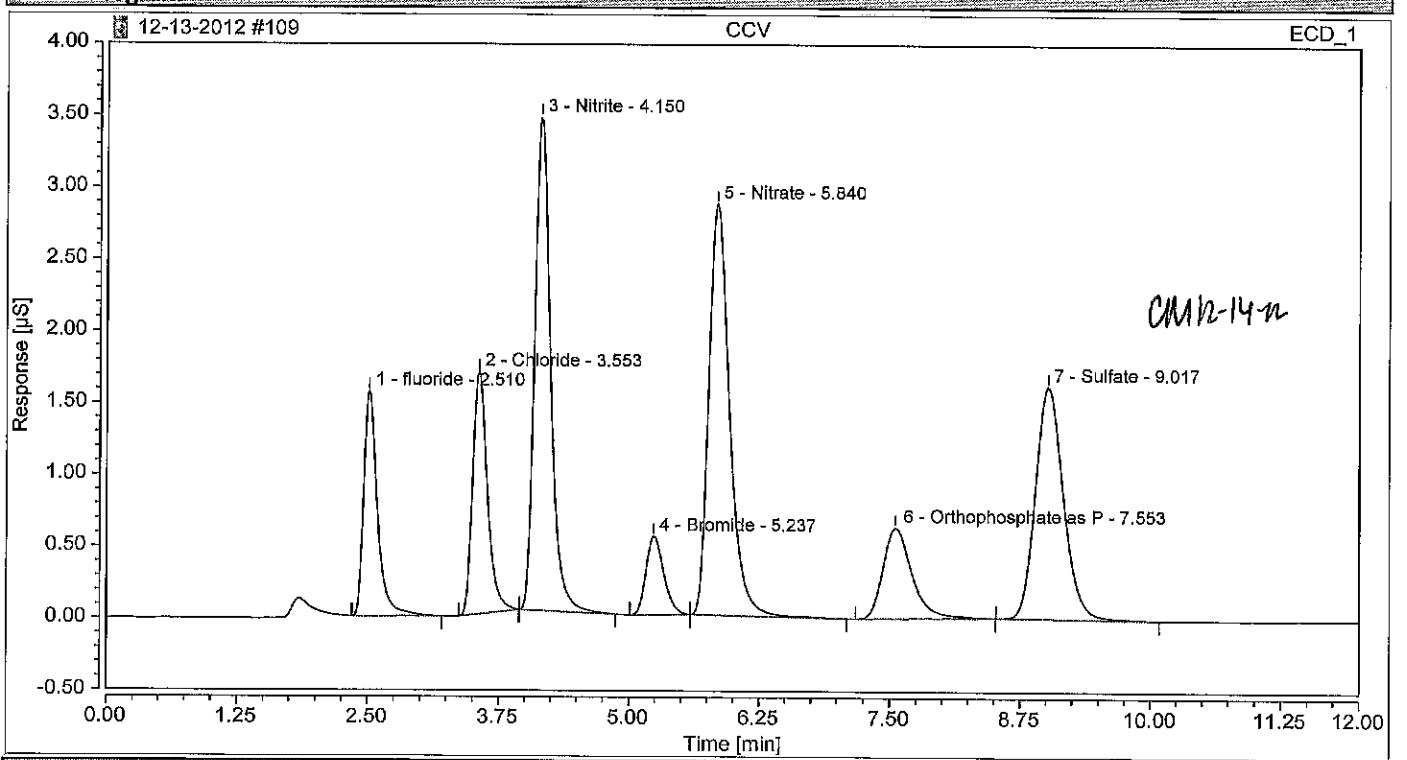
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.011	0.087	4.56	8.73	29.0289
2		2.940	0.052	0.208	22.15	20.78	n.a.
3	Chloride KE	3.557	0.033	0.226	14.01	22.58	116.8414
4		3.797	0.004	0.033	1.65	3.29	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide KE	5.237	0.034	0.168	14.67	16.78	314.4609
6	Nitrate m	5.867	0.022	0.082	9.28	8.25	32.5611
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		7.893	0.006	0.021	2.68	2.07	n.a.
8	Sulfate m	9.053	0.040	0.094	17.22	9.38	205.1880
9		10.427	0.032	0.081	13.78	8.14	n.a.
Total:			**0.234**	**1.000**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 09:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

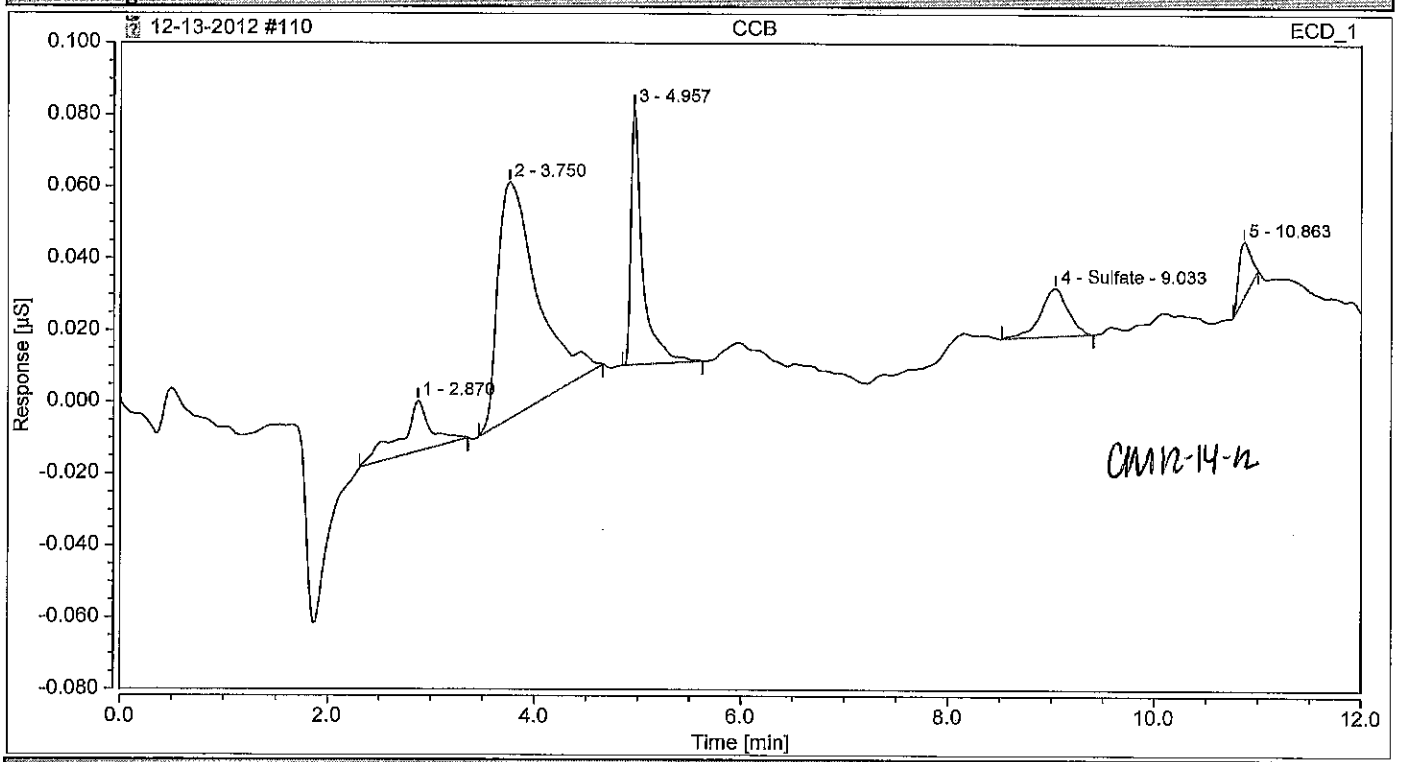
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.238	1.567	9.17	12.70	0.6494
2	Chloride	3.553	0.276	1.686	10.61	13.66	0.9847
3	Nitrite	4.150	0.606	3.433	23.30	27.82	0.9456
4	Bromide	5.237	0.109	0.546	4.18	4.42	0.9966
5	Nitrate	5.840	0.663	2.862	25.49	23.19	0.9955
6	Orthophosphate as P	7.553	0.203	0.631	7.79	5.12	1.0175
7	Sulfate	9.017	0.506	1.617	19.46	13.10	2.5810
Total:			**2.601**	**12.342**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 09:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

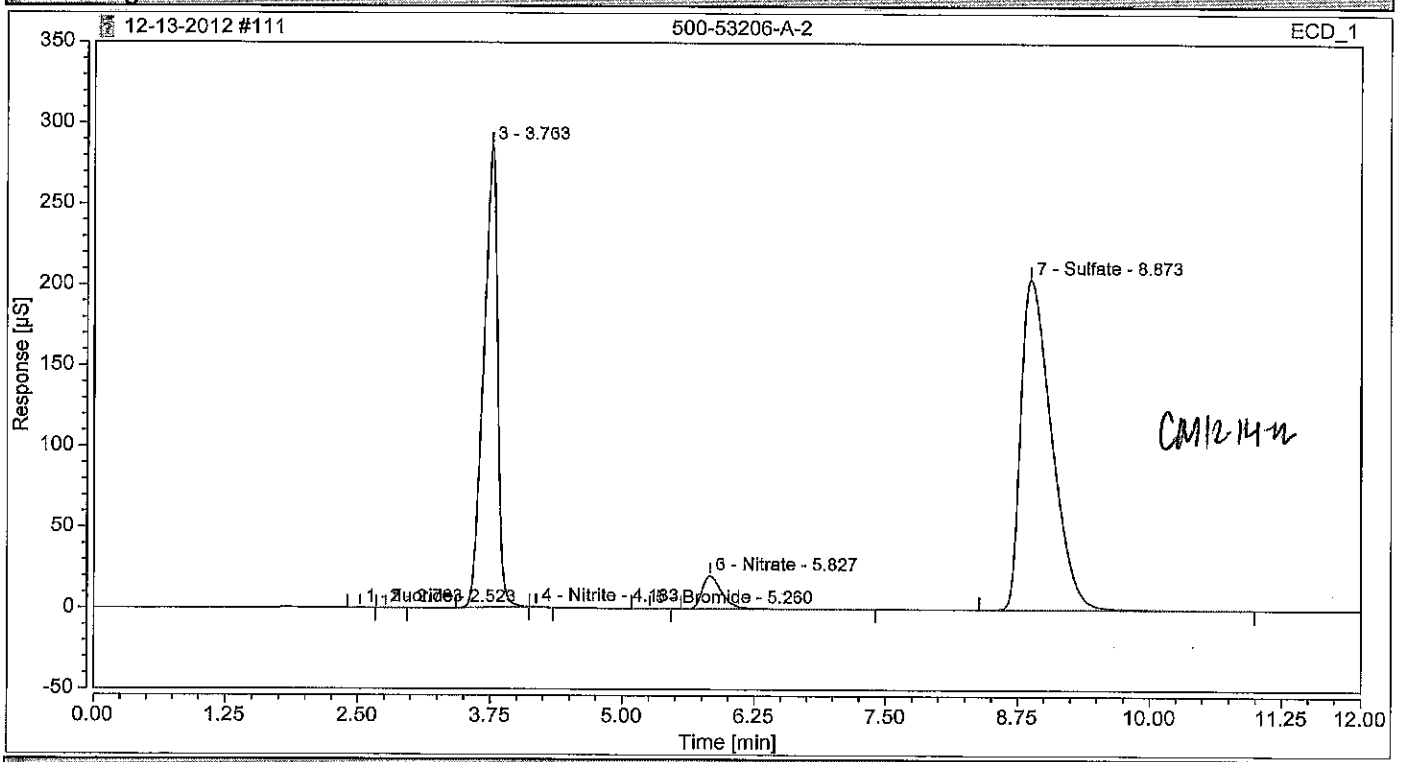
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.870	0.005	0.014	9.61	7.81	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.750	0.029	0.066	58.99	36.60	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.957	0.009	0.072	18.92	39.76	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	9.033	0.004	0.013	8.45	7.41	0.0212
5		10.863	0.002	0.015	4.03	8.41	n.a.
Total:			**0.049**	**0.180**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 10:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

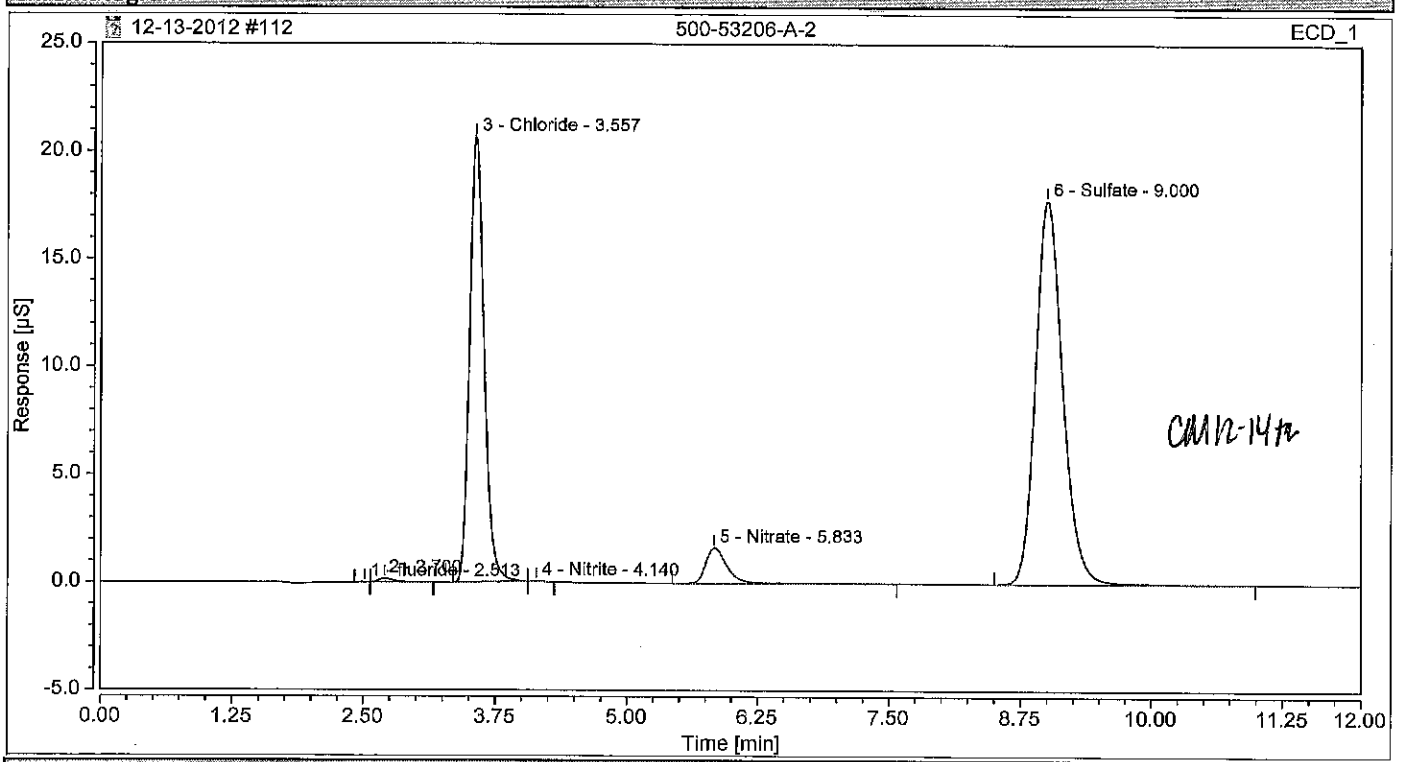
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.523	0.018	0.138	0.02	0.03	0.0492
2		2.763	0.005	0.038	0.00	0.01	n.a.
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.763	43.613	286.059	37.13	55.95	n.a.
4	Nitrite m	4.183	0.029	0.250	0.02	0.05	0.0454
5	Bromide	5.260	0.013	0.077	0.01	0.02	0.1206
6	Nitrate m	5.827	4.466	20.503	3.80	4.01	6.7063
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate m	8.873	69.313	204.242	59.01	39.95	353.4573
Total:			**117.457**	**511.308**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 10:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

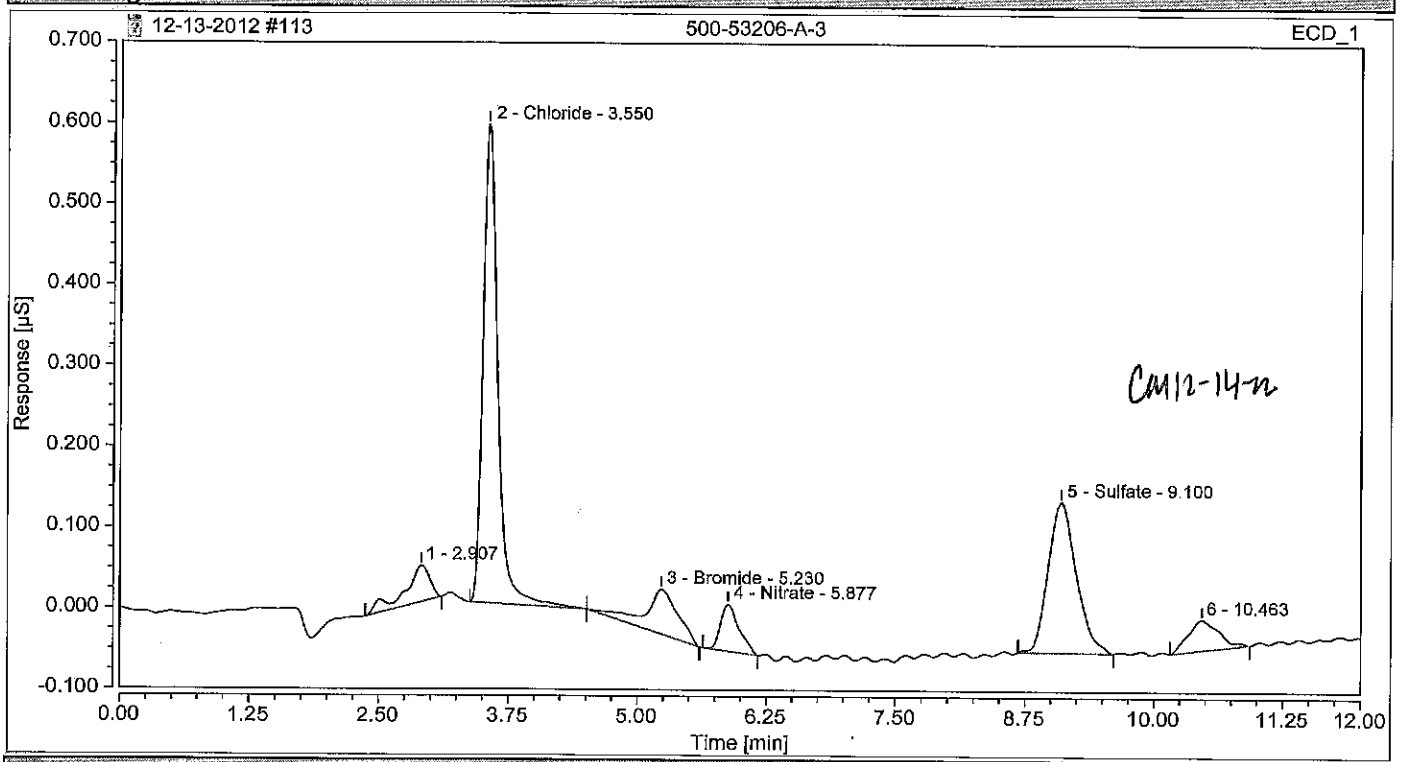
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.001	0.013	0.01	0.03	0.0303
2		2.700	0.028	0.171	0.31	0.42	n.a.
3	Chloride m	3.557	3.289	20.675	36.18	51.25	117.3581
4	Nitrite m	4.140	0.003	0.026	0.04	0.06	0.0524
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate m	5.833	0.404	1.655	4.44	4.10	6.0641
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.000	5.364	17.798	59.01	44.12	273.5503
Total:			**9.090**	**40.338**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 10:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

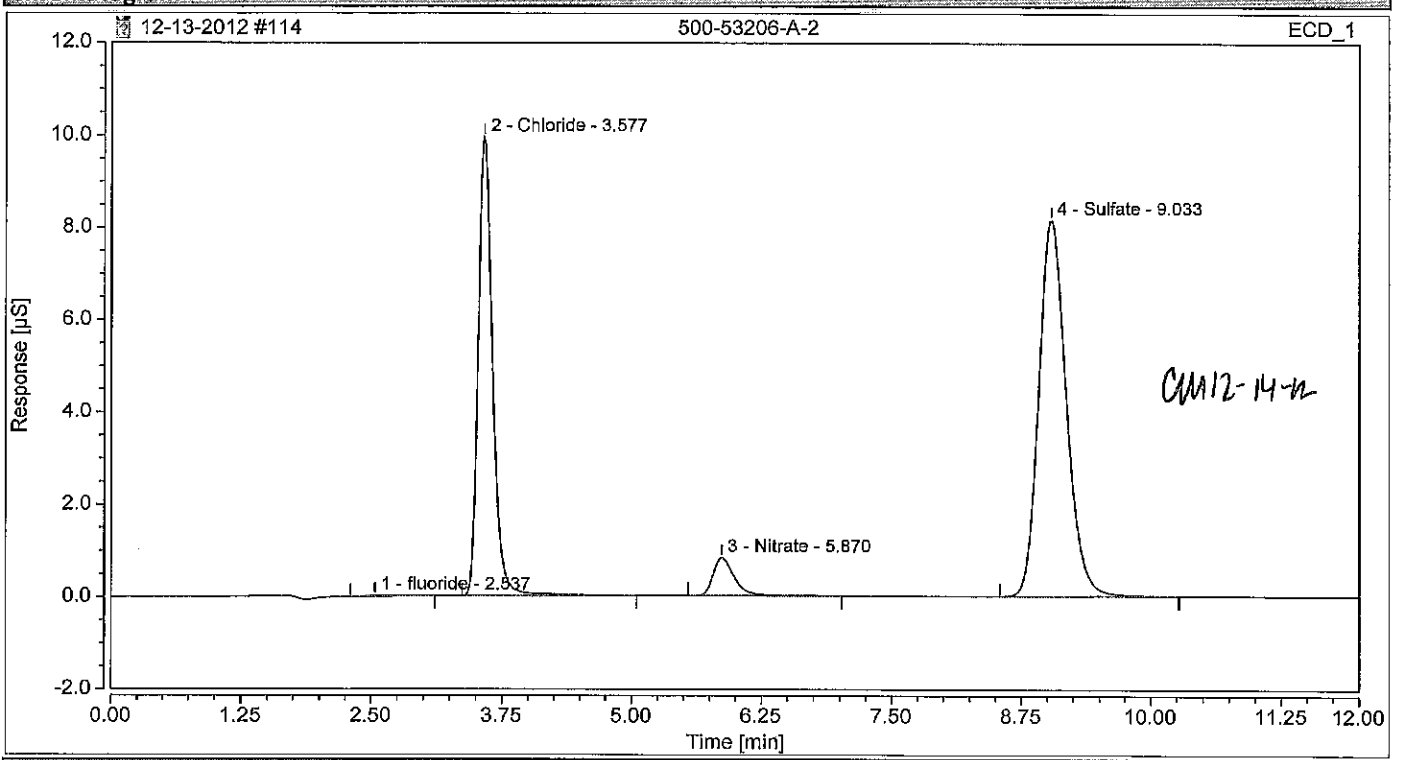
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.907	0.013	0.045	5.90	4.61	n.a.
2	Chloride m	3.550	0.096	0.592	45.13	60.75	171.8869
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.230	0.020	0.055	9.48	5.68	92.8035
4	Nitrate m	5.877	0.012	0.058	5.67	5.97	9.0919
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.100	0.059	0.186	27.72	19.12	150.8831
6		10.463	0.013	0.038	6.11	3.87	n.a.
Total:			**0.214**	**0.974**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 10:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

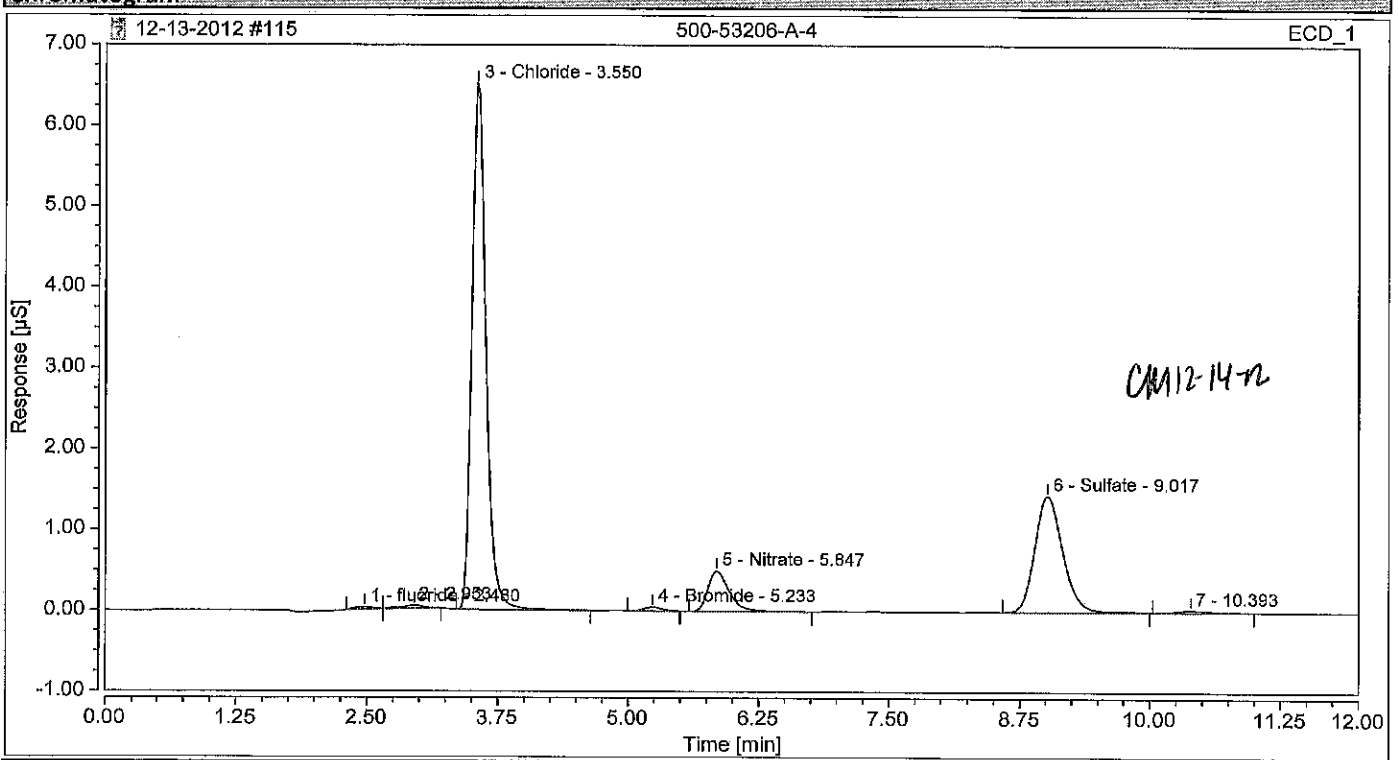
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.537	0.005	0.017	0.12	0.09	0.2765
2	Chloride	3.577	1.576	9.937	36.93	52.51	112.4395
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide KC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.870	0.196	0.819	4.59	4.33	5.8855
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.033	2.491	8.151	58.36	43.07	254.0022
Total:			**4.267**	**18.923**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 10:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

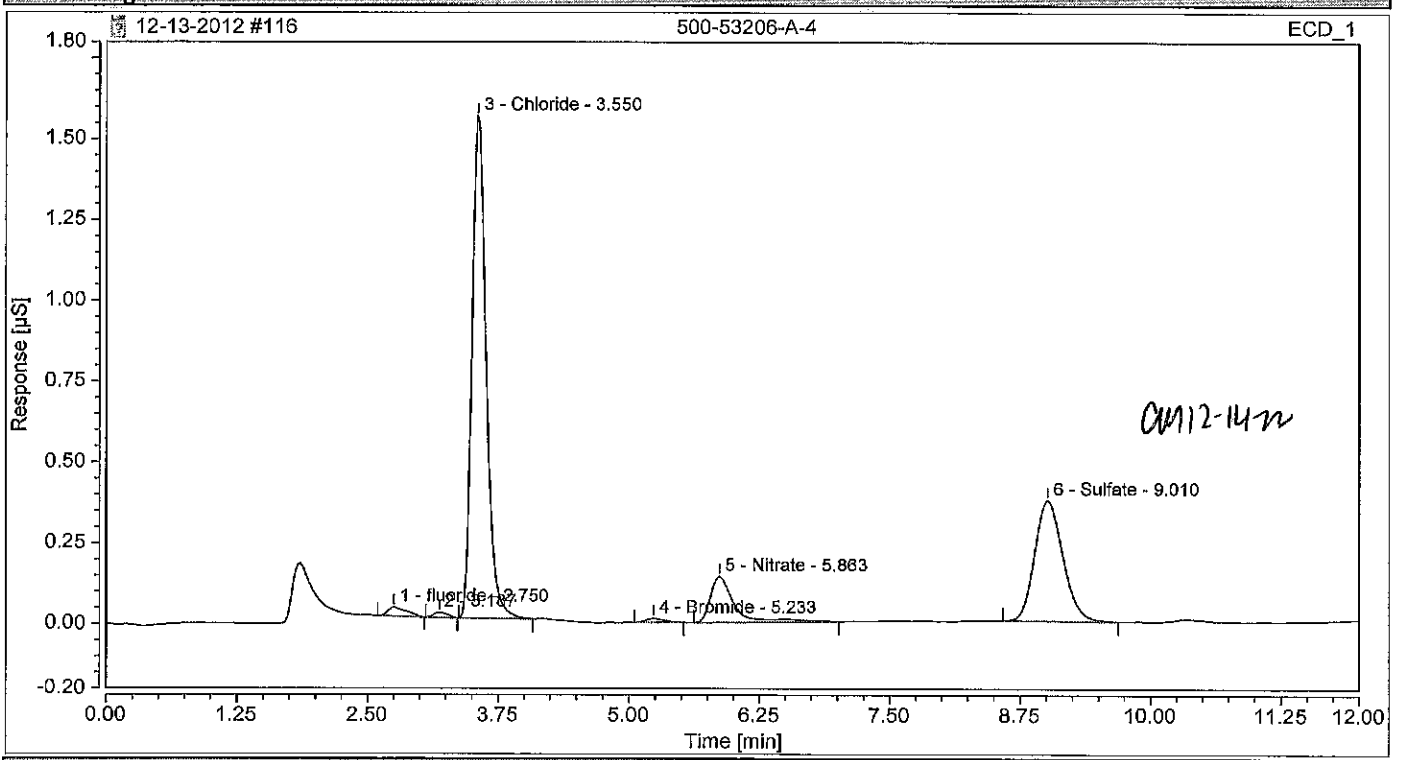
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1*	fluoride	2.480	0.006	0.028	0.36	0.33	0.7898
2*		2.953	0.008	0.037	0.52	0.43	n.a.
3	Chloride	3.550	1.011	6.506	62.72	75.84	180.3025
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.233	0.009	0.045	0.56	0.52	4.1123
5	Nitrate	5.847	0.119	0.499	7.36	5.82	8.9057
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	9.017	0.449	1.438	27.89	16.76	114.6000
7		10.393	0.009	0.025	0.58	0.29	n.a.
Total:			**1.611**	**8.578**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**14/Dec/12 11:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

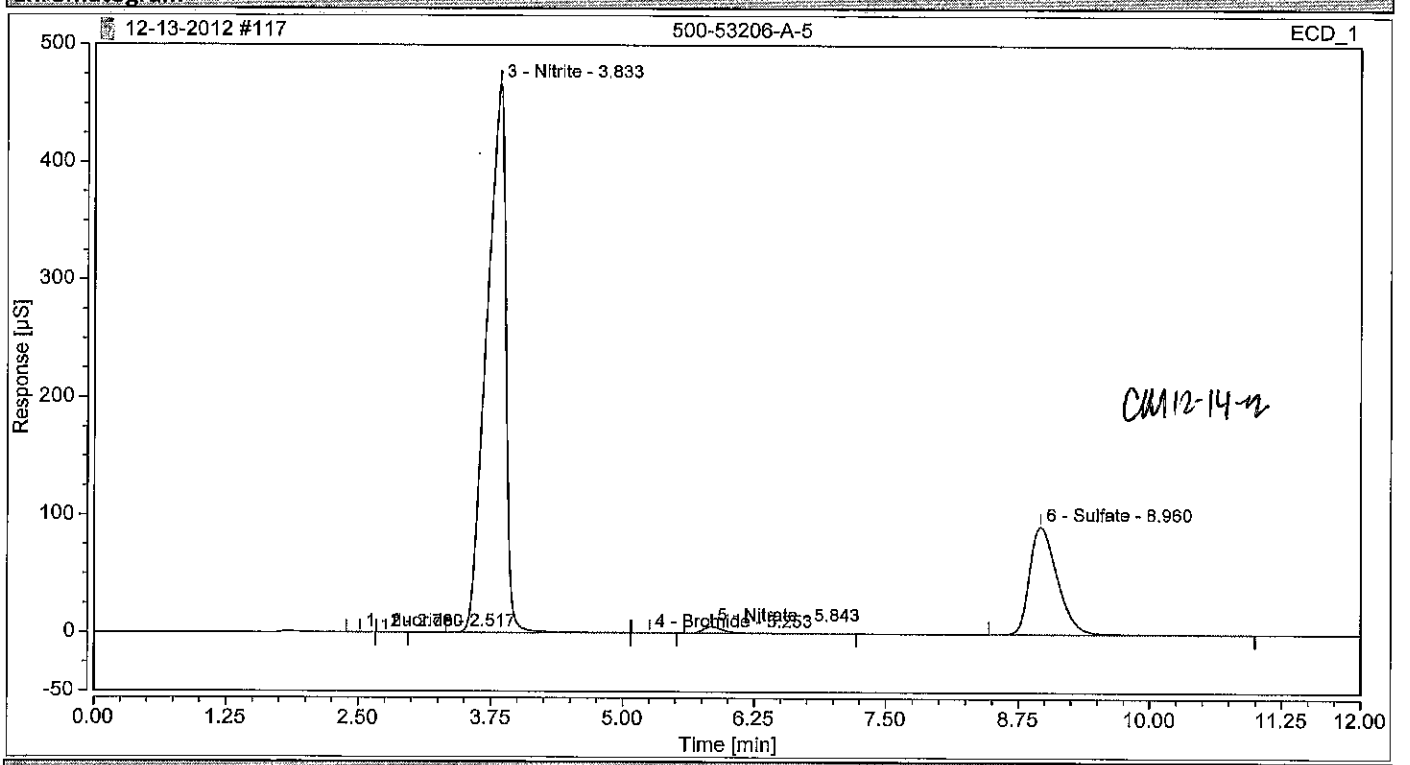
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.750	0.006	0.028	1.42	1.32	3.1793
2		3.187	0.002	0.016	0.60	0.74	n.a.
3	Chloride vb	3.550	0.245	1.555	59.69	73.14	174.9605
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide vb	5.233	0.002	0.012	0.60	0.59	4.5191
5	Nitrate m	5.863	0.038	0.142	9.37	6.69	11.5630
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.010	0.116	0.373	28.32	17.53	118.6510
Total:			**0.411**	**2.126**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 11:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

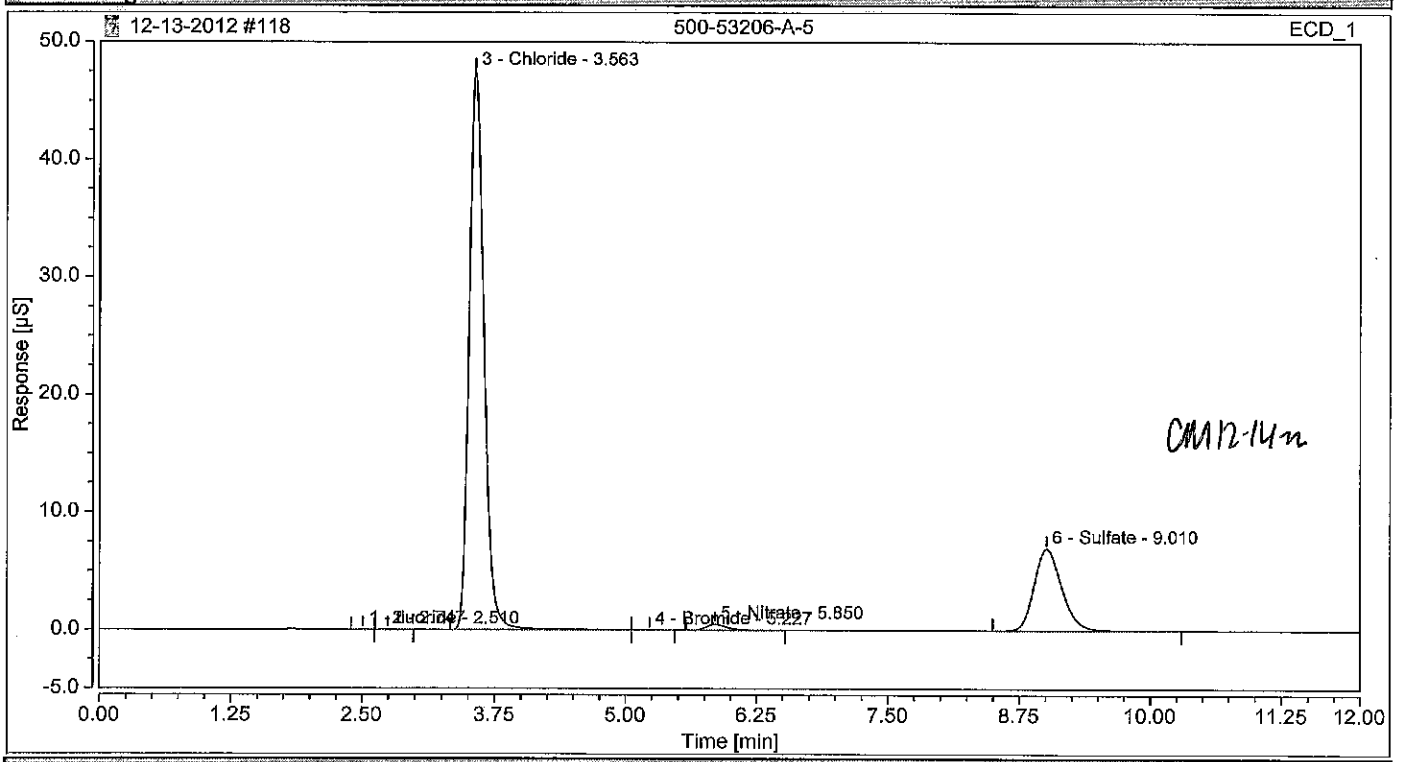
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.017	0.129	0.01	0.02	0.0470
2		2.760	0.006	0.042	0.00	0.01	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrite	3.833	96.884	467.349	76.71	82.71	151.1608
4	Bromide	5.253	0.036	0.203	0.03	0.04	0.3290
5	Nitrate	5.843	1.272	5.673	1.01	1.00	1.9103
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.960	28.079	91.625	22.23	16.22	143.1871
Total:			**126.294**	**565.020**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 11:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

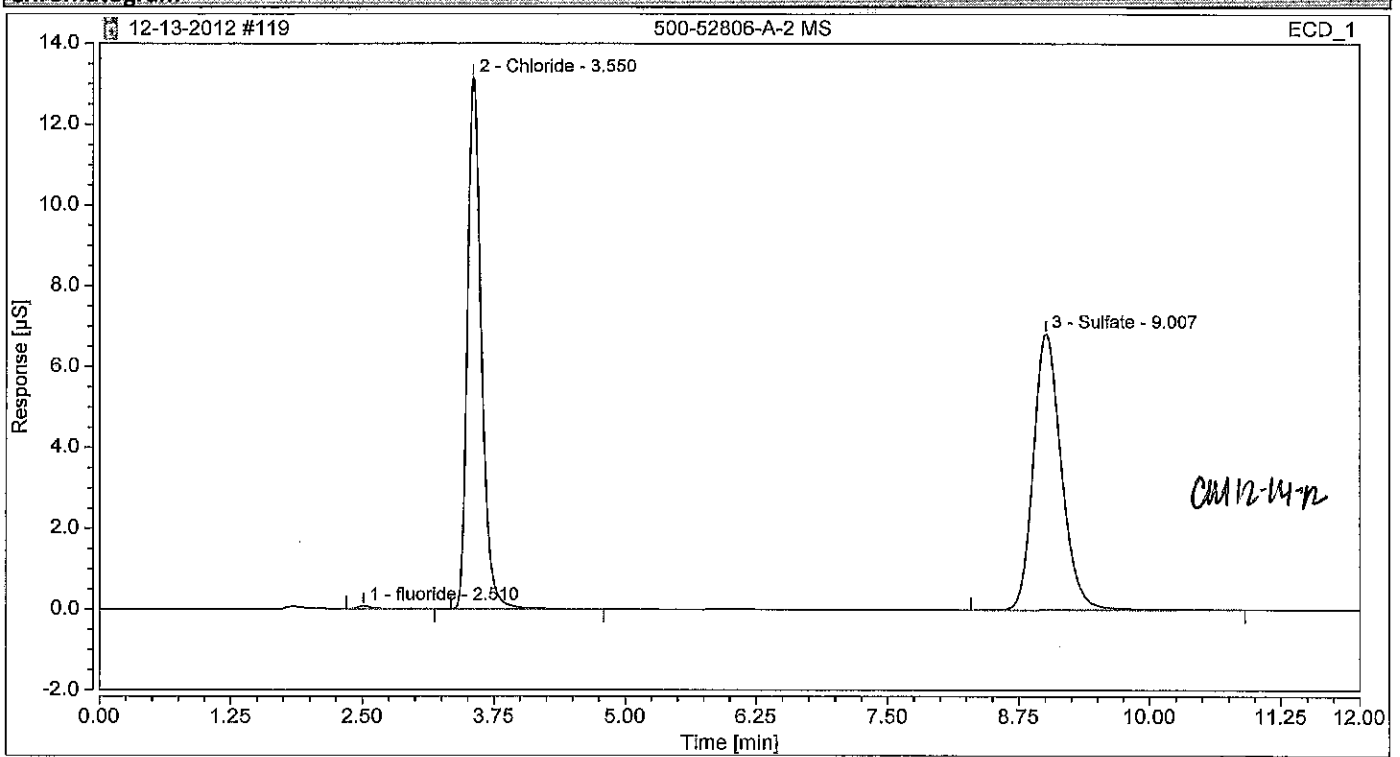
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.020	0.02	0.04	0.0593
2		2.747	0.005	0.033	0.05	0.06	n.a.
3	Chloride	3.563	7.703	47.550	77.26	86.27	274.8240
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.227	0.003	0.018	0.03	0.03	0.2828
5	Nitrate	5.850	0.116	0.501	1.17	0.91	1.7469
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	9.010	2.141	6.994	21.47	12.69	109.1719
Total:			**9.970**	**55.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52808-A-2 MS**	*Run Time (min):*	**12.00**
Vial Number:	**BE1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 11:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

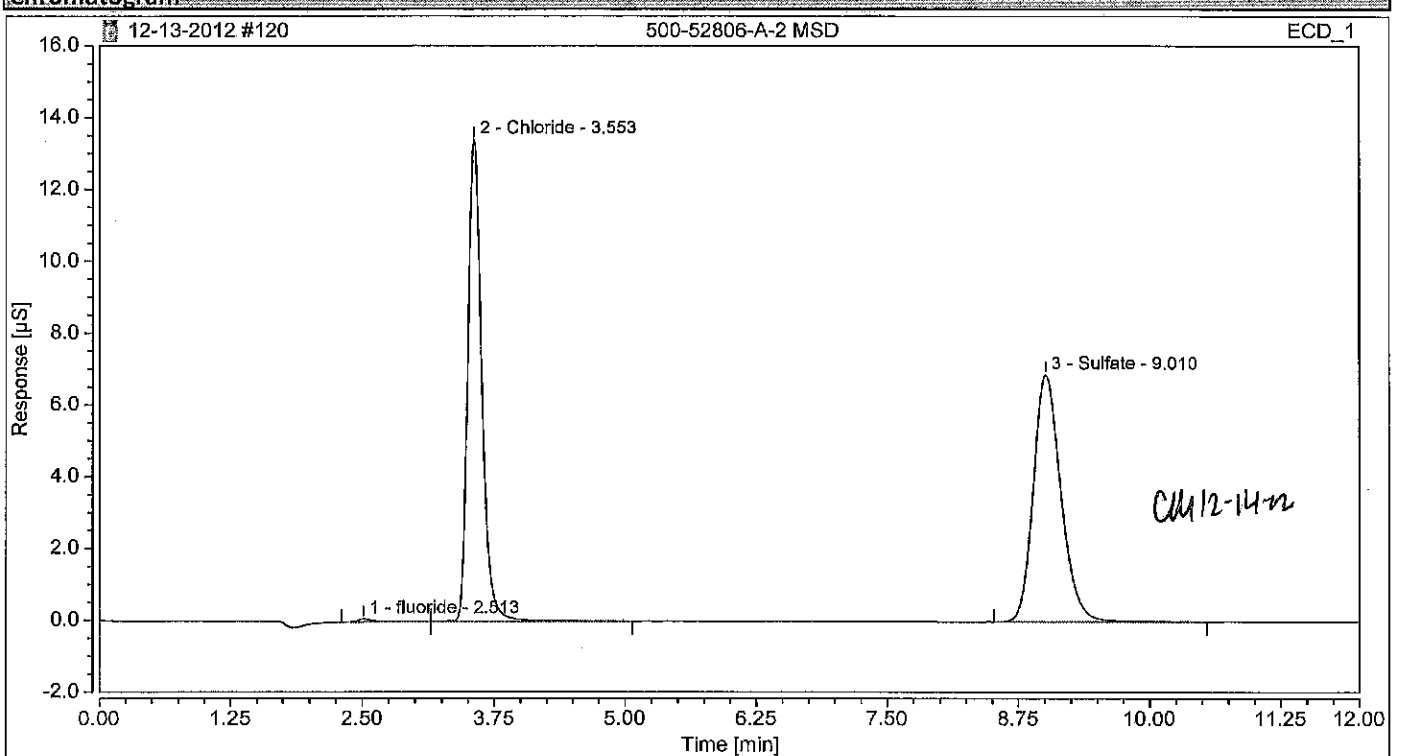
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.011	0.073	0.27	0.36	0.6176
2	Chloride	3.550	2.025	13.153	48.67	65.56	144.5251
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.007	2.124	6.837	51.05	34.08	216.6735
Total:			**4.161**	**20.062**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-2 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**BE2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 12:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

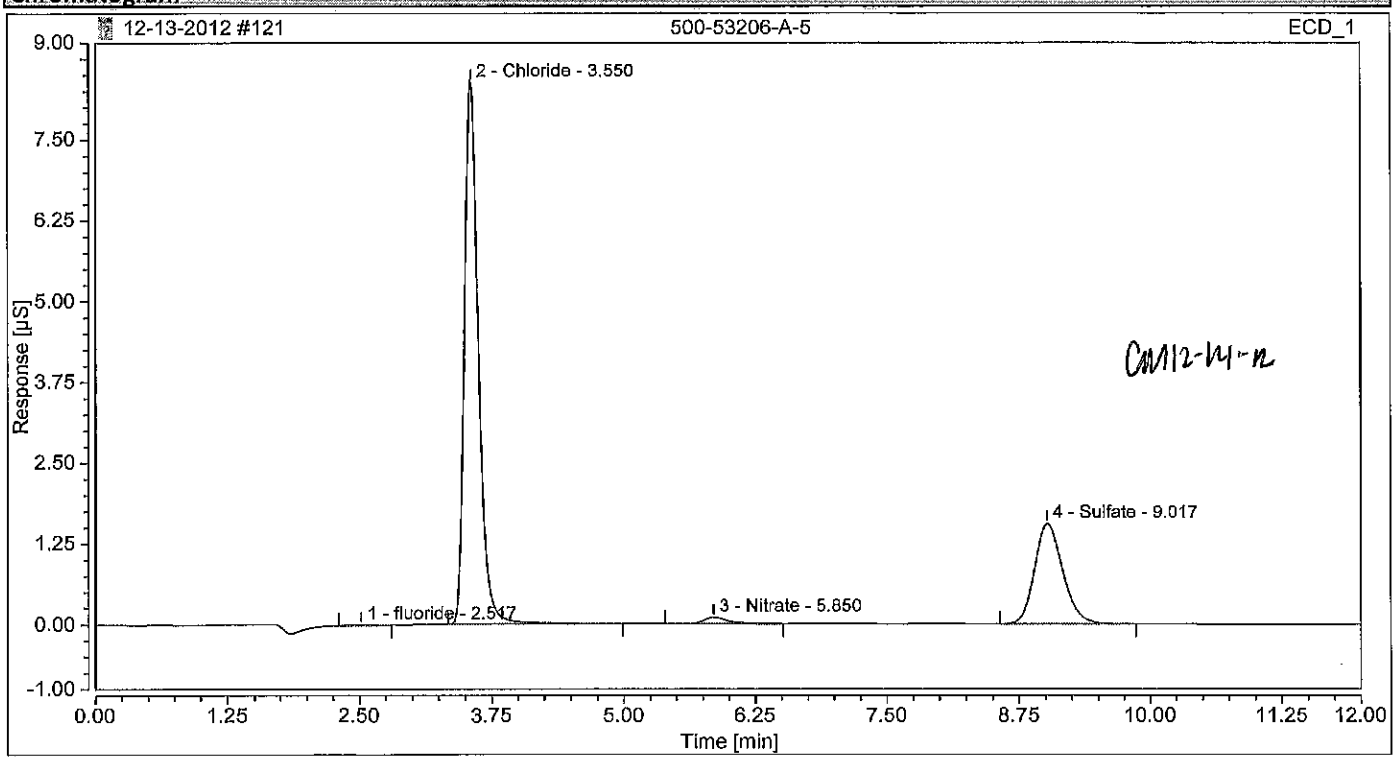
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.014	0.082	0.34	0.40	0.7623
2	Chloride	3.553	2.047	13.426	49.11	65.85	146.0740
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.010	2.107	6.882	50.55	33.75	214.9051
Total:			**4.168**	**20.390**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 12:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

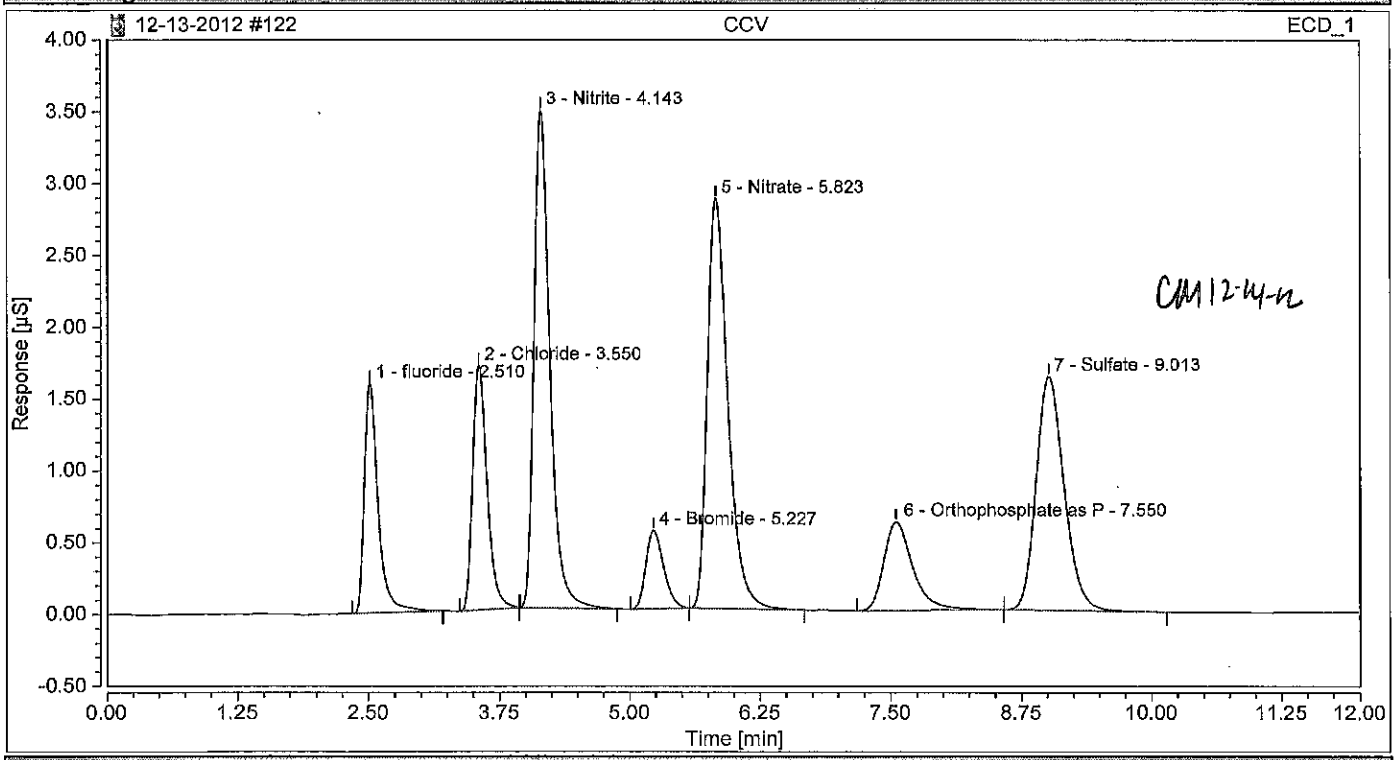
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.007	0.08	0.07	0.2076
2	Chloride	3.550	1.288	8.381	71.66	83.52	229.7034
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.850	0.026	0.097	1.43	0.96	1.9249
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.017	0.482	1.550	26.82	15.45	122.8885
Total:			**1.797**	**10.035**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 12:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

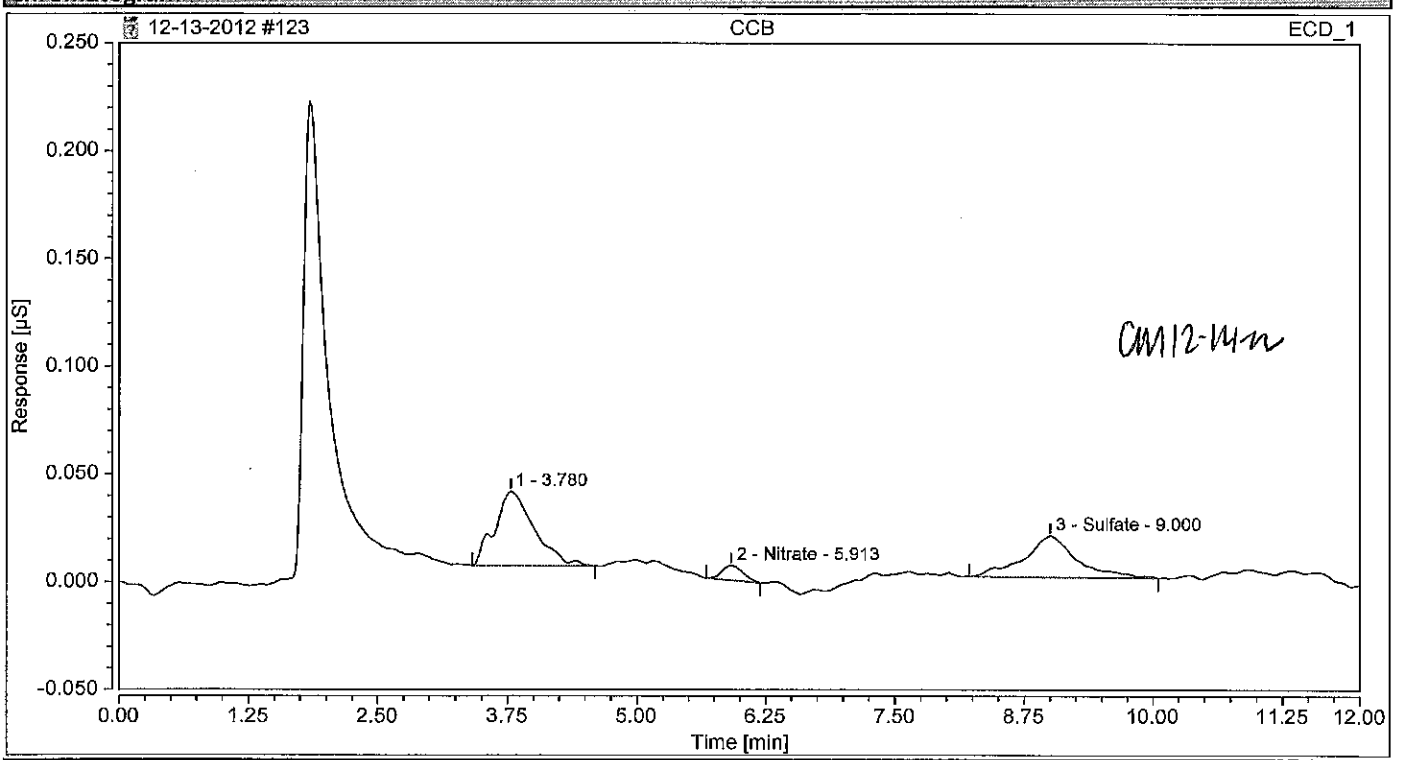
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.242	1.598	9.34	12.88	0.6592
2	Chloride	3.550	0.272	1.703	10.51	13.72	0.9717
3	Nitrite	4.143	0.611	3.465	23.59	27.91	0.9539
4	Bromide	5.227	0.108	0.546	4.18	4.40	0.9937
5	Nitrate	5.823	0.654	2.855	25.23	23.00	0.9821
6	Orthophosphate as P	7.550	0.197	0.617	7.61	4.97	0.9907
7	Sulfate	9.013	0.507	1.627	19.55	13.11	2.5839
Total:			**2.592**	**12.412**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 12:39**	*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.
1		3.780	0.015	0.034	53.69	57.08	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	Nitrate	5.913	0.002	0.007	5.85	11.28	0.0025
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.000	0.011	0.019	40.46	31.64	0.0582
Total:			**0.028**	**0.060**	**100.00**	**100.00**	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502

Method Code: 500-ASTM_LEACH-500

Analyst: Blake, David

Batch Open: 12/10/2012 2:48:00PM

Batch End: 12/11/2012 8:48:00AM

ASTM Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LB3~500-172502/1 N/A	N/A				N/A	N/A	N/A		LB3 500-172502/1-A
2	500-53065-A-1 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
3	500-53065-A-2 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
4	500-53065-A-3 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 Analyst: Blake, David Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 Batch End: 12/11/2012 8:48:00AM

4	500-53065-A-3 (9056)	N/A	Solid			12/17/12	6_Days - R	1	
4	500-53065-A-3 (6020)	N/A	Solid			12/17/12	6_Days - R	1	
5	500-53065-A-4 (7470A)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (9066)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (353.2)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (6020)	N/A	Solid			12/17/12	6_Days - R	1	
5	500-53065-A-4 (9056)	N/A	Solid			12/17/12	6_Days - R	1	
6	500-52882-A-8 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	
6	500-52882-A-8 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	
7	500-52882-A-9 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	
7	500-52882-A-9 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 | Analyst: Blake, David | Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 | Batch End: 12/11/2012 8:48:00AM

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment T-725

Comments

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
ICV~500-173019/1		300		100 mL		200 uL		300 uL	
ICB~500-173019/2		300							
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53190-A-1	MW-7 12-11-12	9056	T						
CCV~500-173019/12		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/13		300							
500-53206-A-2	MW-21D	300	T						
500-53206-A-2	MW-21D	300	T						
500-53206-A-3	MW-20D	300	T						
500-53206-A-2	MW-21D	300	T						
500-53206-A-4	MW-19D	300	T						
500-53206-A-4	MW-19D	300	T						
500-53206-A-5	MP-13 (82-84')	300	T						
500-53206-A-5	MP-13 (82-84')	300	T						
500-52806-A-2~MS		9056A	D	100 mL				300 uL	
500-52806-A-2~MSD		9056A	D	100 mL				300 uL	
500-53206-A-5	MP-13 (82-84')	300	T						
CCV~500-173019/25		300		100 mL	100 uL		100 uL		100 uL

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2I1_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
ICV~500-173019/1		300			200 uL	200 uL		500 uL
ICB~500-173019/2		300						
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53190-A-1	MW-7 12-11-12	9056	T					
CCV~500-173019/12		300		100 uL			250 uL	
CCB~500-173019/13		300						
500-53206-A-2	MW-21D	300	T					
500-53206-A-2	MW-21D	300	T					
500-53206-A-3	MW-20D	300	T					
500-53206-A-2	MW-21D	300	T					
500-53206-A-4	MW-19D	300	T					
500-53206-A-4	MW-19D	300	T					
500-53206-A-5	MP-13 (82-84')	300	T					
500-53206-A-5	MP-13 (82-84')	300	T					
500-52806-A-2~MS		9056A	D					500 uL
500-52806-A-2~MSD		9056A	D					500 uL
500-53206-A-5	MP-13 (82-84')	300	T					
CCV~500-173019/25		300		100 uL			250 uL	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCB~500-173019/26		300							
500-53190-A-1	MW-7 12-11-12	9056	T						
CCV~500-173019/28		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/29		300							
500-53190-A-2	DUP-1	9056	T						
500-53190-A-2	DUP-1	9056	T						
500-53164-A-4	VLF-MW-5	300	T						
500-53164-A-4	VLF-MW-5	300	T						
MB~500-173019/34		300							
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53190-A-13	MW-1 12-11-12	9056	T						
CCV~500-173019/40		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/41		9056							
500-53190-A-13	MW-1 12-11-12	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						
LCS~500-173019/45		300		100 mL		200 uL		300 uL	
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53190-A-8	MW-11 12-12-12	9056	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCB~500-173019/26		300						
500-53190-A-1	MW-7 12-11-12	9056	T					
CCV~500-173019/28		300		100 uL			250 uL	
CCB~500-173019/29		300						
500-53190-A-2	DUP-1	9056	T					
500-53190-A-2	DUP-1	9056	T					
500-53164-A-4	VLF-MW-5	300	T					
500-53164-A-4	VLF-MW-5	300	T					
MB~500-173019/34		300						
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53190-A-13	MW-1 12-11-12	9056	T					
CCV~500-173019/40		9056		100 uL			250 uL	
CCB~500-173019/41		9056						
500-53190-A-13	MW-1 12-11-12	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					
LCS~500-173019/45		300			200 uL	200 uL		500 uL
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53190-A-8	MW-11 12-12-12	9056	T					

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
500-53190-A-8	MW-11 12-12-12	9056	T						
CCV~500-173019/52		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/53		9056							
500-53190-A-15	MW-3 12-12-12	9056	T						
500-53190-A-15	MW-3 12-12-12	9056	T						
500-53190-A-9	MW-11B 12-12-12	9056	T						
500-53190-A-9	MW-11B 12-12-12	9056	T						
500-53234-I-1	VLF-MW-3	300	T						
500-53234-I-1	VLF-MW-3	300	T						
500-53234-I-3	OLD-MW-4	300	T						
500-53234-I-3	OLD-MW-4	300	T						
500-53234-I-2	VLF-MW-4	300	T						
500-53234-I-2	VLF-MW-4	300	T						
CCV~500-173019/64		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/65		9056							
500-53234-I-4	OLD-MW-9	300	T						
500-53234-I-4	OLD-MW-9	300	T						
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53164-A-4	VLF-MW-5	300	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53190-A-1	MW-7 12-11-12	9056	T						
500-53190-A-2	DUP-1	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2I1_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
500-53190-A-8	MW-11 12-12-12	9056	T					
CCV~500-173019/52		9056		100 uL			250 uL	
CCB~500-173019/53		9056						
500-53190-A-15	MW-3 12-12-12	9056	T					
500-53190-A-15	MW-3 12-12-12	9056	T					
500-53190-A-9	MW-11B 12-12-12	9056	T					
500-53190-A-9	MW-11B 12-12-12	9056	T					
500-53234-I-1	VLF-MW-3	300	T					
500-53234-I-1	VLF-MW-3	300	T					
500-53234-I-3	OLD-MW-4	300	T					
500-53234-I-3	OLD-MW-4	300	T					
500-53234-I-2	VLF-MW-4	300	T					
500-53234-I-2	VLF-MW-4	300	T					
CCV~500-173019/64		9056		100 uL			250 uL	
CCB~500-173019/65		9056						
500-53234-I-4	OLD-MW-9	300	T					
500-53234-I-4	OLD-MW-9	300	T					
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53164-A-4	VLF-MW-5	300	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53190-A-1	MW-7 12-11-12	9056	T					
500-53190-A-2	DUP-1	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCV~500-173019/76		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/77		300							
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53190-A-13	MW-1 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
CCV~500-173019/88		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/89		9056							
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
MB~500-173019/97		300							
LCS~500-173019/98		300		100 mL		200 uL		300 uL	
LB3~500-172502/1-A		9056							
CCV~500-173019/100		300		100 mL	100 uL		100 uL		100 uL

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCV~500-173019/76		300		100 uL			250 uL	
CCB~500-173019/77		300						
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53190-A-13	MW-1 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
CCV~500-173019/88		9056		100 uL			250 uL	
CCB~500-173019/89		9056						
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
MB~500-173019/97		300						
LCS~500-173019/98		300			200 uL	200 uL		500 uL
LB3~500-172502/1-A		9056						
CCV~500-173019/100		300		100 uL			250 uL	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCB~500-173019/101		300							
500-53065-A-1-C		9056	Y						
500-53065-A-2-D		9056	Y						
500-53065-A-3-C		9056	Y						
500-53065-A-4-C		9056	Y						
500-52806-A-1	MW3/G108	9056A	D						
500-52806-A-2	MW107/G107	9056A	D						
500-52806-A-4	MW110/G110	9056A	D						
500-52806-A-7	MW106/G106	9056A	D						
500-53094-A-36	MW-1A 83	300	D						
500-53094-A-37	MW-15 90	300	D						
CCV~500-173019/112		9056A		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/113		9056A							
500-53094-A-38	MW-27A 103	300	D						
500-53094-A-39	MW-27A DUP	300	D						
500-53161-A-1	MW-20D	300	T						
500-53161-A-1	MW-20D	300	T						
500-53161-A-2	Tank 2 Batch 1	300	T						
500-53161-A-2	Tank 2 Batch 1	300	T						
500-53161-A-3	MW-19D	300	T						
500-53161-A-3	MW-19D	300	T						
500-53206-A-1	TANK 1 BATCH 4	300	T						
500-53206-A-1	TANK 1 BATCH 4	300	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCB~500-173019/101		300						
500-53065-A-1-C		9056	Y					
500-53065-A-2-D		9056	Y					
500-53065-A-3-C		9056	Y					
500-53065-A-4-C		9056	Y					
500-52806-A-1	MW3/G108	9056A	D					
500-52806-A-2	MW107/G107	9056A	D					
500-52806-A-4	MW110/G110	9056A	D					
500-52806-A-7	MW106/G106	9056A	D					
500-53094-A-36	MW-1A 83	300	D					
500-53094-A-37	MW-15 90	300	D					
CCV~500-173019/112		9056A		100 uL			250 uL	
CCB~500-173019/113		9056A						
500-53094-A-38	MW-27A 103	300	D					
500-53094-A-39	MW-27A DUP	300	D					
500-53161-A-1	MW-20D	300	T					
500-53161-A-1	MW-20D	300	T					
500-53161-A-2	Tank 2 Batch 1	300	T					
500-53161-A-2	Tank 2 Batch 1	300	T					
500-53161-A-3	MW-19D	300	T					
500-53161-A-3	MW-19D	300	T					
500-53206-A-1	TANK 1 BATCH 4	300	T					
500-53206-A-1	TANK 1 BATCH 4	300	T					

Filter Lot #: ACRODISC21782182-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 Lot: ELUENTCONC00005
Regeneration Solution Lot: NA
Ethylenediamine Lot: NA

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
ICV~500-173019/1		300			
ICB~500-173019/2		300			
500-53164-A-1	VLF-MW-6	300	T		
500-53164-A-1	VLF-MW-6	300	T		
500-53164-A-2	VLF-MW-6A	300	T		
500-53164-A-2	VLF-MW-6A	300	T		
500-53190-A-11	MW-6 12-11-12	9056	T		
500-53190-A-11	MW-6 12-11-12	9056	T		
500-53164-A-3	VLF-MW-7	300	T		
500-53164-A-3	VLF-MW-7	300	T		
500-53190-A-1	MW-7 12-11-12	9056	T		
CCV~500-173019/12		300			
CCB~500-173019/13		300			
500-53206-A-2	MW-21D	300	T		
500-53206-A-2	MW-21D	300	T		
500-53206-A-3	MW-20D	300	T		
500-53206-A-2	MW-21D	300	T		
500-53206-A-4	MW-19D	300	T		
500-53206-A-4	MW-19D	300	T		
500-53206-A-5	MP-13 (82-84')	300	T		
500-53206-A-5	MP-13 (82-84')	300	T		
500-52806-A-2~MS		9056A	D		
500-52806-A-2~MSD		9056A	D		
500-53206-A-5	MP-13 (82-84')	300	T		
CCV~500-173019/25		300			

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
CCB~500-173019/26		300		
500-53190-A-1	MW-7 12-11-12	9056	T	
CCV~500-173019/28		300		
CCB~500-173019/29		300		
500-53190-A-2	DUP-1	9056	T	
500-53190-A-2	DUP-1	9056	T	
500-53164-A-4	VLF-MW-5	300	T	
500-53164-A-4	VLF-MW-5	300	T	
MB~500-173019/34		300		
500-53190-A-12	MW-5 12-11-12	9056	T	
500-53190-A-12	MW-5 12-11-12	9056	T	
500-53164-A-5	VLF-MW-2	300	T	
500-53164-A-5	VLF-MW-2	300	T	
500-53190-A-13	MW-1 12-11-12	9056	T	
CCV~500-173019/40		9056		
CCB~500-173019/41		9056		
500-53190-A-13	MW-1 12-11-12	9056	T	
500-53190-A-3	MW-9 12-11-12	9056	T	
500-53190-A-3	MW-9 12-11-12	9056	T	
LCS~500-173019/45		300		
500-53190-A-5	MW-8 12-11-12	9056	T	
500-53190-A-5	MW-8 12-11-12	9056	T	
500-53190-A-14	MW-2 12-11-12	9056	T	
500-53190-A-14	MW-2 12-11-12	9056	T	
500-53190-A-8	MW-11 12-12-12	9056	T	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-53190-A-8	MW-11 12-12-12	9056	T	
CCV~500-173019/52		9056		
CCB~500-173019/53		9056		
500-53190-A-15	MW-3 12-12-12	9056	T	
500-53190-A-15	MW-3 12-12-12	9056	T	
500-53190-A-9	MW-11B 12-12-12	9056	T	
500-53190-A-9	MW-11B 12-12-12	9056	T	
500-53234-I-1	VLF-MW-3	300	T	
500-53234-I-1	VLF-MW-3	300	T	
500-53234-I-3	OLD-MW-4	300	T	
500-53234-I-3	OLD-MW-4	300	T	
500-53234-I-2	VLF-MW-4	300	T	
500-53234-I-2	VLF-MW-4	300	T	
CCV~500-173019/64		9056		
CCB~500-173019/65		9056		
500-53234-I-4	OLD-MW-9	300	T	
500-53234-I-4	OLD-MW-9	300	T	
500-53164-A-1	VLF-MW-6	300	T	
500-53164-A-2	VLF-MW-6A	300	T	
500-53164-A-3	VLF-MW-7	300	T	
500-53164-A-4	VLF-MW-5	300	T	
500-53164-A-5	VLF-MW-2	300	T	
500-53190-A-1	MW-7 12-11-12	9056	T	
500-53190-A-2	DUP-1	9056	T	
500-53190-A-3	MW-9 12-11-12	9056	T	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCV~500-173019/76		300			
CCB~500-173019/77		300			
500-53190-A-5	MW-8 12-11-12	9056	T		
500-53190-A-11	MW-6 12-11-12	9056	T		
500-53190-A-12	MW-5 12-11-12	9056	T		
500-53190-A-13	MW-1 12-11-12	9056	T		
500-53190-A-14	MW-2 12-11-12	9056	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MSD	VLF-MW-7	300	T		
500-53164-A-3~MSD	VLF-MW-7	300	T		
CCV~500-173019/88		9056			
CCB~500-173019/89		9056			
500-53164-A-3~MSD	VLF-MW-7	300	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
MB~500-173019/97		300			
LCS~500-173019/98		300			
LB3~500-172502/1-A		9056			
CCV~500-173019/100		300			

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCB~500-173019/101		300			
500-53065-A-1-C		9056	Y		
500-53065-A-2-D		9056	Y		
500-53065-A-3-C		9056	Y		
500-53065-A-4-C		9056	Y		
500-52806-A-1	MW3/G108	9056A	D		
500-52806-A-2	MW107/G107	9056A	D		
500-52806-A-4	MW110/G110	9056A	D		
500-52806-A-7	MW106/G106	9056A	D		
500-53094-A-36	MW-1A 83	300	D		
500-53094-A-37	MW-15 90	300	D		
CCV~500-173019/112		9056A			
CCB~500-173019/113		9056A			
500-53094-A-38	MW-27A 103	300	D		
500-53094-A-39	MW-27A DUP	300	D		
500-53161-A-1	MW-20D	300	T		
500-53161-A-1	MW-20D	300	T		
500-53161-A-2	Tank 2 Batch 1	300	T		
500-53161-A-2	Tank 2 Batch 1	300	T		
500-53161-A-3	MW-19D	300	T		
500-53161-A-3	MW-19D	300	T		
500-53206-A-1	TANK 1 BATCH 4	300	T		
500-53206-A-1	TANK 1 BATCH 4	300	T		

Batch Comment: AG14A-5UM/AS14A-5UM

TestAmerica Chicago

CHI-22-12-084/T-09/12

Cover Page - Ion Chromatograph

LIMS Batch: 173084 **FILE ID:** 20121214 **.csv**

Calibration Date: 12-12-12

Instrument: (Circle)	
(a.) IC4: Dionex Series DX-120	DX120.met
b. IC5: Dionex Series ICS-1100	

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV1 / CCV2 Stock ID	LCS ICV MS Stock ID	LCS mg/L	(ICV-CCV1)/CCV2 mg/L	MS mg/L
Fluoride	WSTICF1- 5	WSTICF2- 7	1.0	1.0 / 0.6	1.0
Chloride	WSTICCL1- 7	WSTICCL2- 7	3.0	3.0 / 1.0	3.0
Nitrite-N	WSTICNI1- 4	WSTICNO2II-2	2.0	2.0 / 1.0	2.0
Bromide	WSTICBR1- 5	WSTICBR2-4	2.0	2.0 / 1.0	2.0
Nitrate-N	WSTICNO31- 5	WSTICNO32-8	2.0	2.0 / 1.0	2.0
O-PO4	WSTICP1- 5	WSTICP2- 5	2.0	2.0 / 1.0	2.0
Sulfate	WSTICS1- 6	WSTICS2- 5	5.0	5.0 / 2.5	5.0

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

Analyst Signature: Colleen Moore Date: 12-15-12

Reviewer Signature: [illegible] Date: 12/17/12

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC4: DX-120	Method: DX120.met
Batch:	173084	
Date:	12/14/2012	

Analyst:	Colleen Moore

Parameter	ICV RT Minutes	RT Window +/- 5 %	
Fluoride	3.10	2.95	3.26
Chloride	4.38	4.16	4.60
Nitrite		0.00	0.00
Bromide		0.00	0.00
Nitrate		0.00	0.00
Orthophosphate		0.00	0.00
Sulfate	11.17	10.61	11.73

Analyst Signature: Colleen Moore Date: 12-15-12

Schedule File: C:\PeakNet\Schedule\20121214.sch

173084

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight	Int. Std.
1	ICV	Sample		dx-120.met	d6410_001.dxd	1	1	1	1
2	ICB	Sample		dx-120.met	d6410_002.dxd	1	1	1	1
3	MB	Sample		dx-120.met	d6410_003.dxd	1	1	1	1
4	LCS	Sample		dx-120.met	d6410_004.dxd	1	1	1	1
5	500-53234-A-2	Sample		dx-120.met	d6410_005.dxd	1	25	1	1
6	500-53234-A-1	Sample		dx-120.met	d6410_006.dxd	1	100	1	1
7	500-53234-A-1	Sample		dx-120.met	d6410_007.dxd	1	200	1	1
8	500-53234-A-3	Sample		dx-120.met	d6410_008.dxd	1	50	1	1
9	500-53234-A-4	Sample		dx-120.met	d6410_009.dxd	1	20	1	1
10	500-53065-A-1	Sample		dx-120.met	d6410_010.dxd	1	1	1	1
11	500-53065-A-2	Sample		dx-120.met	d6410_011.dxd	1	1	1	1
12	500-53065-A-3	Sample		dx-120.met	d6410_012.dxd	1	1	1	1
13	CCV	Sample		dx-120.met	d6410_013.dxd	1	1	1	1
14	CCB	Sample		dx-120.met	d6410_014.dxd	1	1	1	1
15	500-53065-A-4	Sample		dx-120.met	d6410_015.dxd	1	1	1	1
16	500-53065-A-4	Sample		dx-120.met	d6410_016.dxd	1	2	1	1
17	500-53065-A-1	Sample		dx-120.met	d6410_017.dxd	1	50	1	1
18	500-53094-A-1	Sample		dx-120.met	d6410_018.dxd	1	1	1	1
19	500-53094-A-1	Sample		dx-120.met	d6410_019.dxd	1	10	1	1
20	500-53094-A-2	Sample		dx-120.met	d6410_020.dxd	1	1	1	1
21	500-53094-A-2	Sample		dx-120.met	d6410_021.dxd	1	10	1	1
22	500-53094-A-3	Sample		dx-120.met	d6410_022.dxd	1	1	1	1
23	500-53094-A-3	Sample		dx-120.met	d6410_023.dxd	1	10	1	1
24	500-53094-A-4	Sample		dx-120.met	d6410_024.dxd	1	1	1	1
25	CCV	Sample		dx-120.met	d6410_025.dxd	1	1	1	1
26	CCB	Sample		dx-120.met	d6410_026.dxd	1	1	1	1
27	500-53094-A-4	Sample		dx-120.met	d6410_027.dxd	1	10	1	1
28	500-53094-A-5	Sample		dx-120.met	d6410_028.dxd	1	1	1	1
29	500-53094-A-5	Sample		dx-120.met	d6410_029.dxd	1	10	1	1
30	500-53094-A-6	Sample		dx-120.met	d6410_030.dxd	1	1	1	1
31	500-53094-A-6	Sample		dx-120.met	d6410_031.dxd	1	10	1	1
32	500-53094-A-7	Sample		dx-120.met	d6410_032.dxd	1	1	1	1
33	500-53094-A-7	Sample		dx-120.met	d6410_033.dxd	1	10	1	1
34	500-53094-A-8	Sample		dx-120.met	d6410_034.dxd	1	1	1	1
35	500-53094-A-8	Sample		dx-120.met	d6410_035.dxd	1	10	1	1
36	500-53094-A-9	Sample		dx-120.met	d6410_036.dxd	1	1	1	1
37	CCV	Sample		dx-120.met	d6410_037.dxd	1	1	1	1
38	CCB	Sample		dx-120.met	d6410_038.dxd	1	1	1	1
39	500-53094-A-9	Sample		dx-120.met	d6410_039.dxd	1	10	1	1
40	500-53094-A-10	Sample		dx-120.met	d6410_040.dxd	1	1	1	1
41	500-53094-A-10	Sample		dx-120.met	d6410_041.dxd	1	10	1	1
42	500-53094-A-11	Sample		dx-120.met	d6410_042.dxd	1	1	1	1
43	500-53094-A-11	Sample		dx-120.met	d6410_043.dxd	1	10	1	1
44	500-53094-A-12	Sample		dx-120.met	d6410_044.dxd	1	1	1	1
45	500-53094-A-12	Sample		dx-120.met	d6410_045.dxd	1	10	1	1
46	CCV	Sample		dx-120.met	d6410_046.dxd	1	1	1	1
47	CCB	Sample		dx-120.met	d6410_047.dxd	1	1	1	1
48	500-53094-A-12 MS	Sample		dx-120.met	d6410_048.dxd	1	1	1	1
49	500-53094-A-12 MS	Sample		dx-120.met	d6410_049.dxd	1	10	1	1
50	500-53094-A-12 MSD	Sample		dx-120.met	d6410_050.dxd	1	1	1	1
51	500-53094-A-12 MSD	Sample		dx-120.met	d6410_051.dxd	1	10	1	1
52	CCV	Sample		dx-120.met	d6410_052.dxd	1	1	1	1
53	CCB	Sample		dx-120.met	d6410_053.dxd	1	1	1	1
54	SHUTDOWN	Sample		shutdown120.met	d6410	1	1	1	1

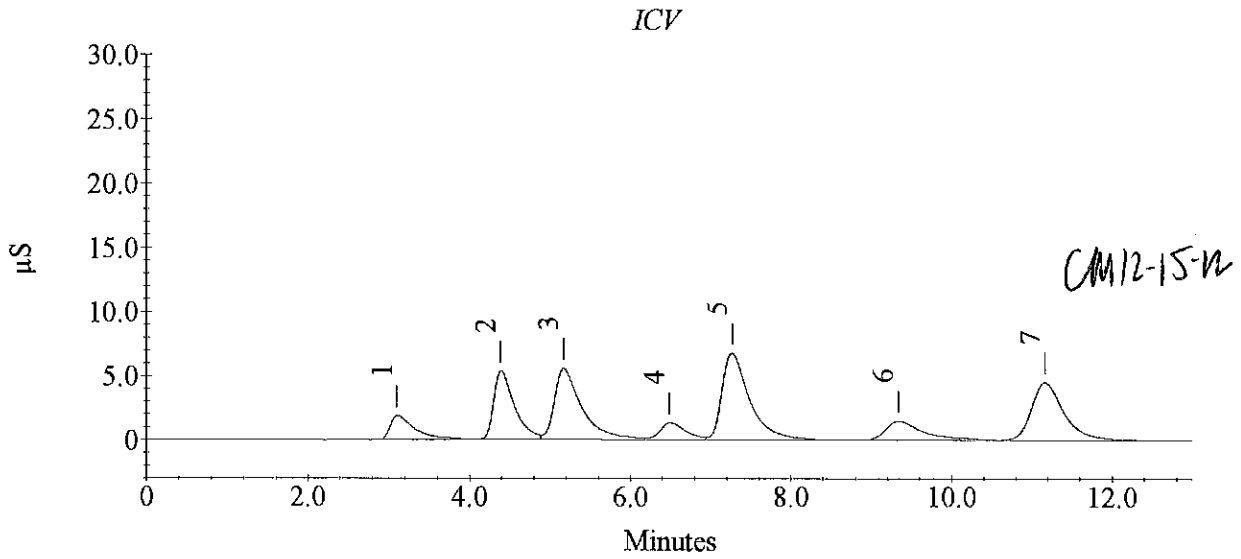
Sample Analysis Report

Sample Name : ICV
Data File Name : C:\PEAKNET\DATA\20121214\D6410_001.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:24:29 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE	3.10	0.9240	388971	18491
2	CHLORIDE	4.38	2.8171	940136	53104
3	NITRITE	5.17	1.8396	1297774	55084
4	BROMIDE	6.48	1.8626	285901	13052
5	NITRATE	7.27	1.9132	1637320	67442
6	OrthophosP	9.33	1.9239	488667	14770
7	SULFATE	11.17	5.1313	1292977	45176



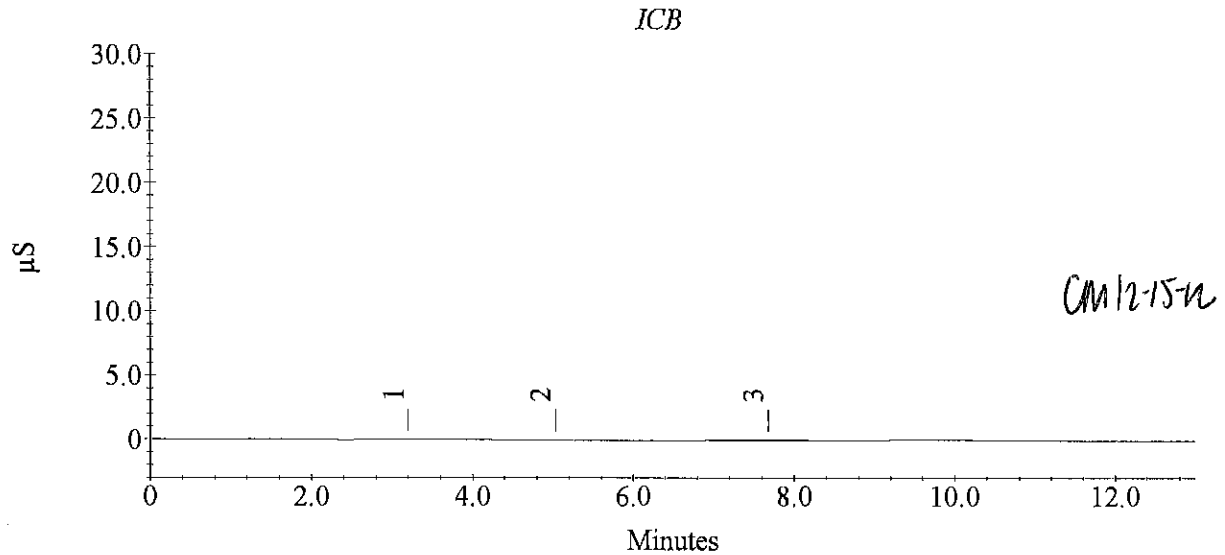
Sample Analysis Report

Sample Name : ICB
Data File Name : c:\peaknet\data\20121214\D6410_002.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:39:51 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 2

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE CHLORIDE	3.20	0.0956	1588	41
2	NITRITE BROMIDE	5.03	0.1061	2127	117
3	NITRATE OrthophosP SULFATE	7.68	0.1069	10264	189



CM 12-15-12

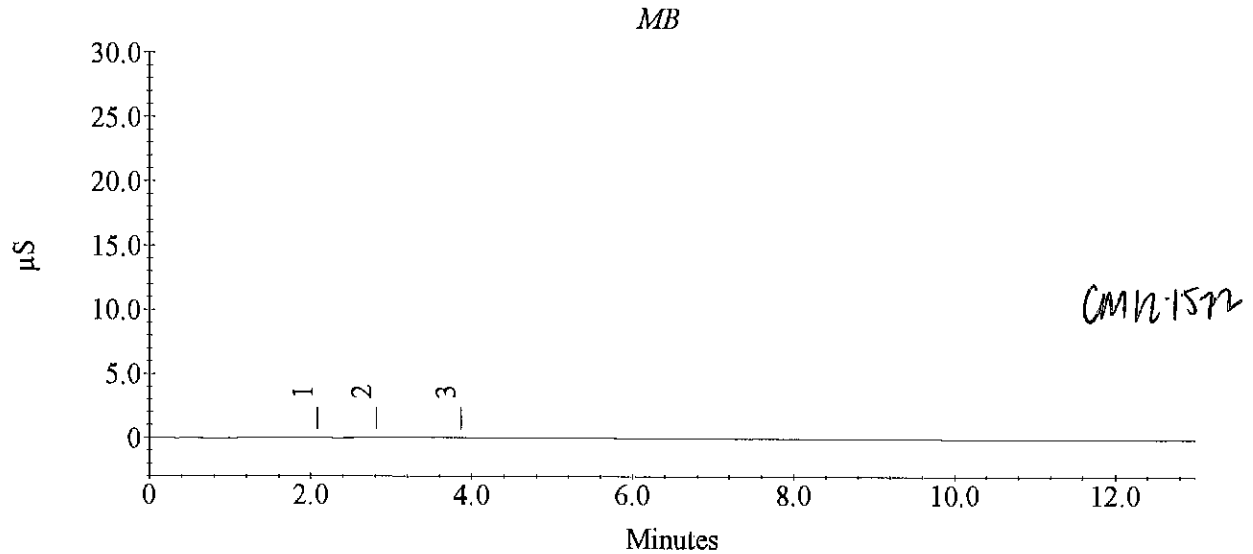
Sample Analysis Report

Sample Name : MB
Data File Name : c:\peaknet\data\20121214\D6410_003.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:55:12 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 3

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	2.82	0.1117	9114	289
3	CHLORIDE	3.87	0.1431	3388	131
	NITRITE				
	BROMIDE				
	NITRATE				
	OrthophosP				
	SULFATE				



CMR-1572

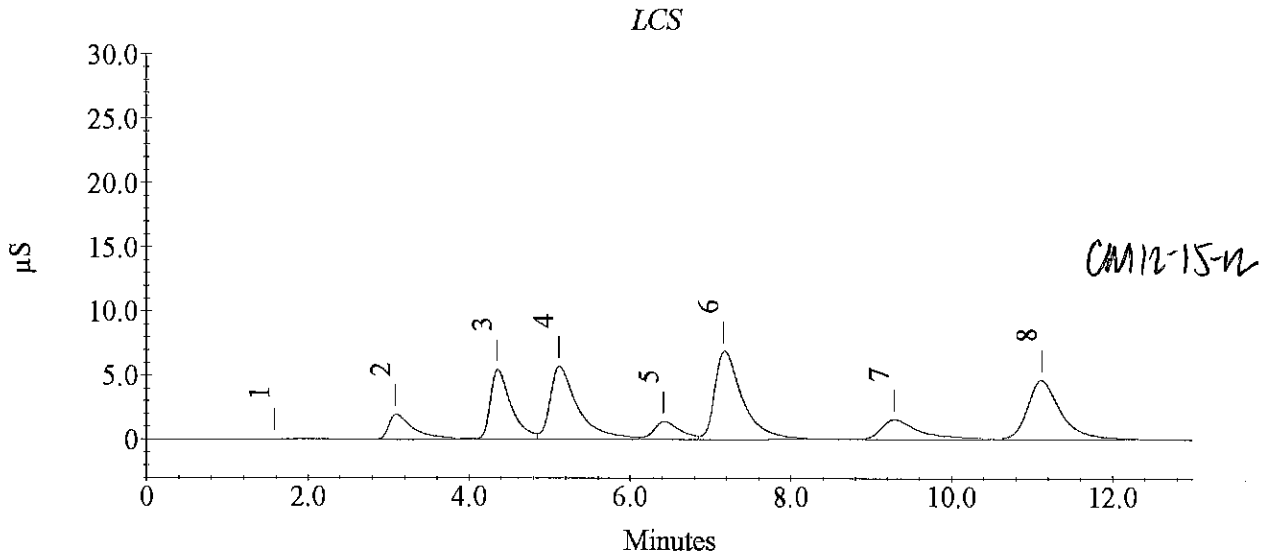
Sample Analysis Report

Sample Name : LCS
Data File Name : c:\peaknet\data\20121214\D6410_004.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:10:34 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 4

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.08	1.0191	433439	19191
3	CHLORIDE	4.35	2.9384	982642	54231
4	NITRITE	5.12	1.9237	1360654	56872
5	BROMIDE	6.42	2.0368	314066	13859
6	NITRATE	7.17	1.9436	1664733	68312
7	OrthophosP	9.28	2.0594	524393	15443
8	SULFATE	11.12	5.2938	1334292	45961



CM12-15-12

Sample Analysis Report

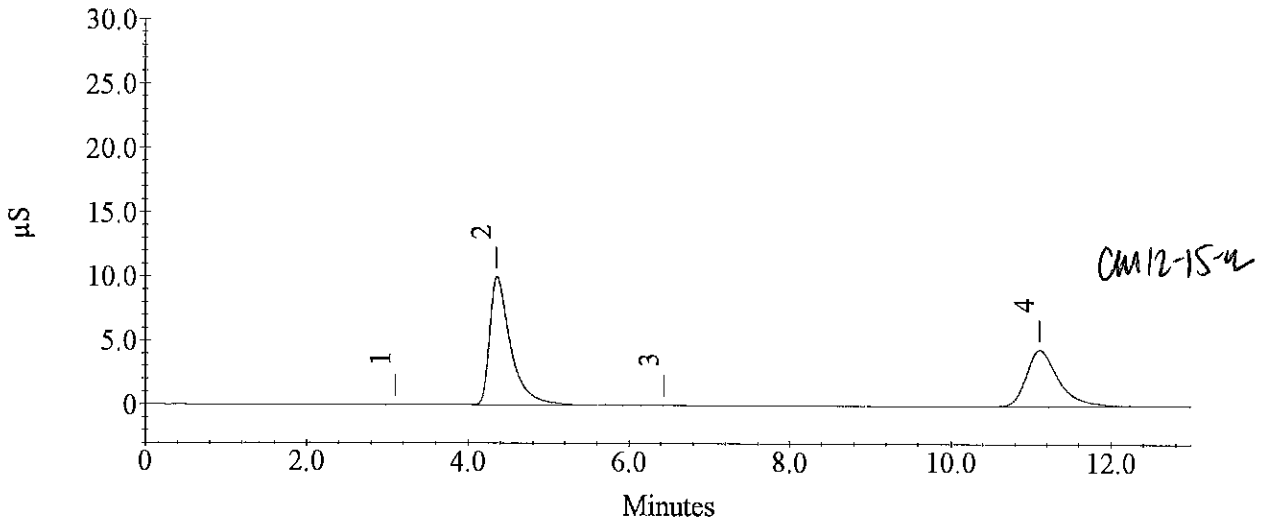
Sample Name : 500-53234-A-2
Data File Name : c:\peaknet\data\20121214\D6410_005.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:25:55 AM
System Operator : Colleen Moore
Dilution Factor : 25.00
Injection Number : 5

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDEm	3.10	2.3757	1314	144
2	CHLORIDE	4.35	131.1603	1791198	99234
	NITRITEm				
3	BROMIDEm	6.43	3.9688	10452	364
	NITRATE m				
	OrthophosPm				
4	SULFATE	11.10	122.5579	1234779	43607

500-53234-A-2



Sample Analysis Report

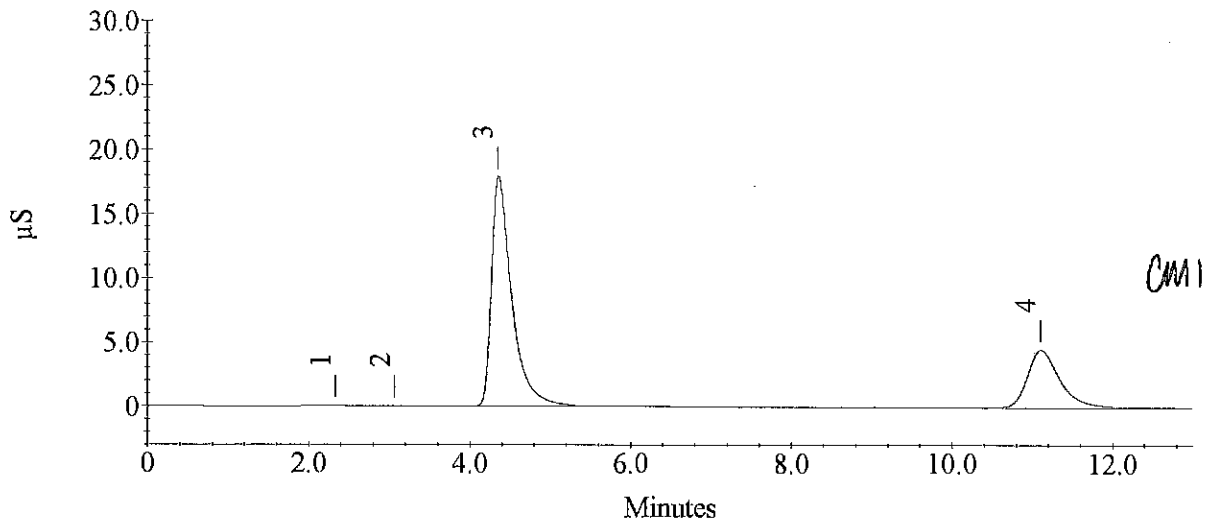
Sample Name : 500-53234-A-1
Data File Name : c:\peaknet\data\20121214\D6410_006.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:41:17 AM
System Operator : Colleen Moore
Dilution Factor : 100.00
Injection Number : 6

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE m	3.07	9.4702	1162	124
3	CHLORIDE OK	4.35	905.2735	3124642	177819
	NITRITE RE				
	BROMIDE m				
	NITRATE RE				
	OrthophosP m				
4	SULFATE	11.10	505.6860	1274064	44676

500-53234-A-1



CM 12-15-12

Sample Analysis Report

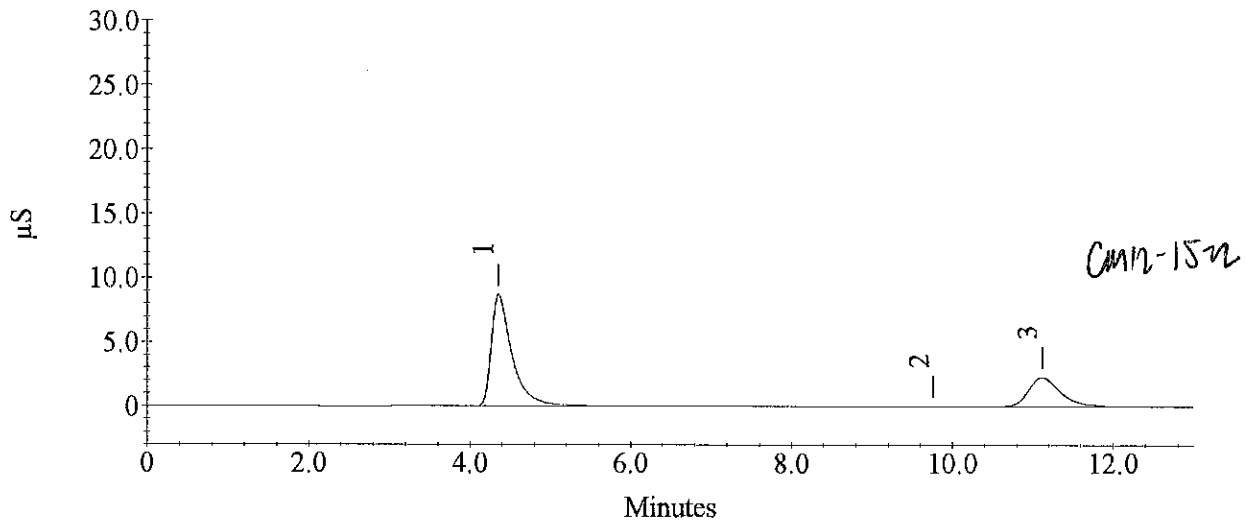
Sample Name : 500-53234-A-1
Data File Name : c:\peaknet\data\20121214\D6410_007.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:56:38 AM
System Operator : Colleen Moore
Dilution Factor : 200.00
Injection Number : 7

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDEm CHLORIDE NITRITERE BROMIDEm NITRATEnt	4.35	902.4426	1533990	86213
2	OrthophosPm	9.77	24.0549	13057	279
3	SULFATERE	11.12	518.4826	647597	22779

500-53234-A-1



Cmn-15n

Sample Analysis Report

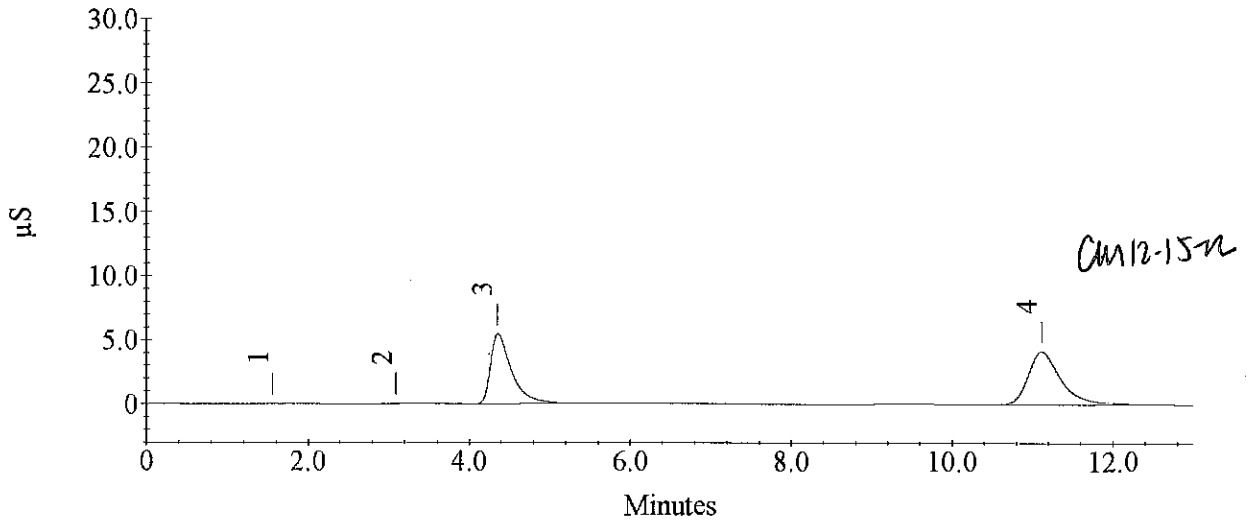
Sample Name : 500-53234-A-3
Data File Name : c:\peaknet\data\20121214\D6410_008.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:12:00 AM
System Operator : Colleen Moore
Dilution Factor : 50.00
Injection Number : 8

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDEm	3.10	6.1534	14427	661
3	CHLORIDE	4.35	147.1181	984035	54140
	NITRITEkt				
	BROMIDEm				
	NITRATEkt				
	OrthophosPm				
4	SULFATE	11.12	230.5358	1160653	41056

500-53234-A-3



Sample Analysis Report

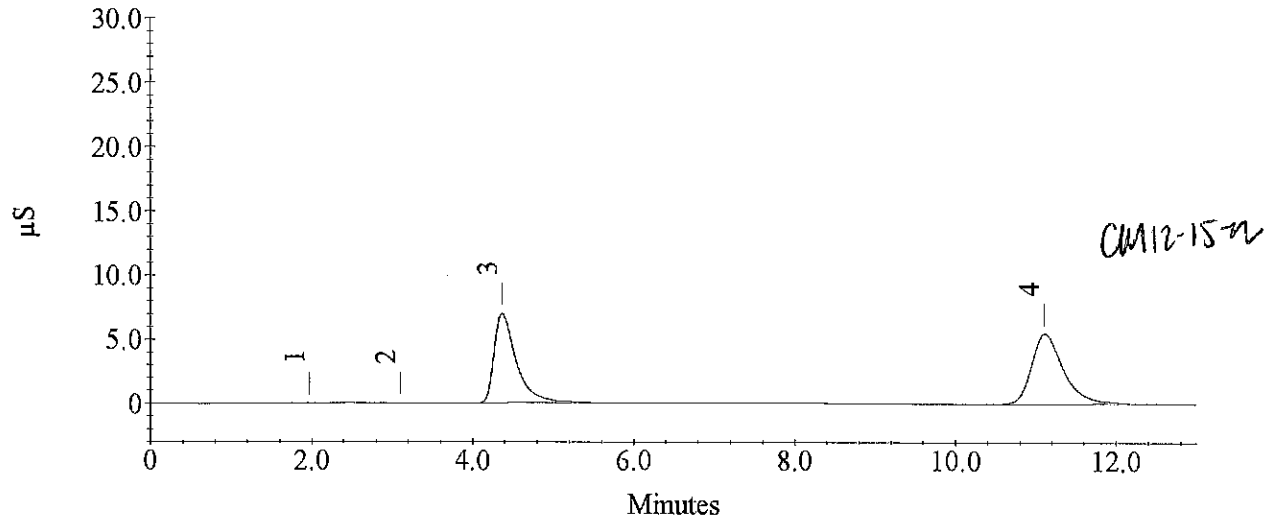
Sample Name : 500-53234-A-4
Data File Name : c:\peaknet\data\20121214\D6410_009.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:27:21 AM
System Operator : Colleen Moore
Dilution Factor : 20.00
Injection Number : 9

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDEm	3.10	2.0070	3803	193
3	CHLORIDE	4.37	78.6659	1331182	69560
	NITRITEm				
	BROMIDEm				
	NITRATE m				
	OrthophosPm				
4	SULFATE	11.10	120.4696	1519781	54389

500-53234-A-4



CM12-15-12

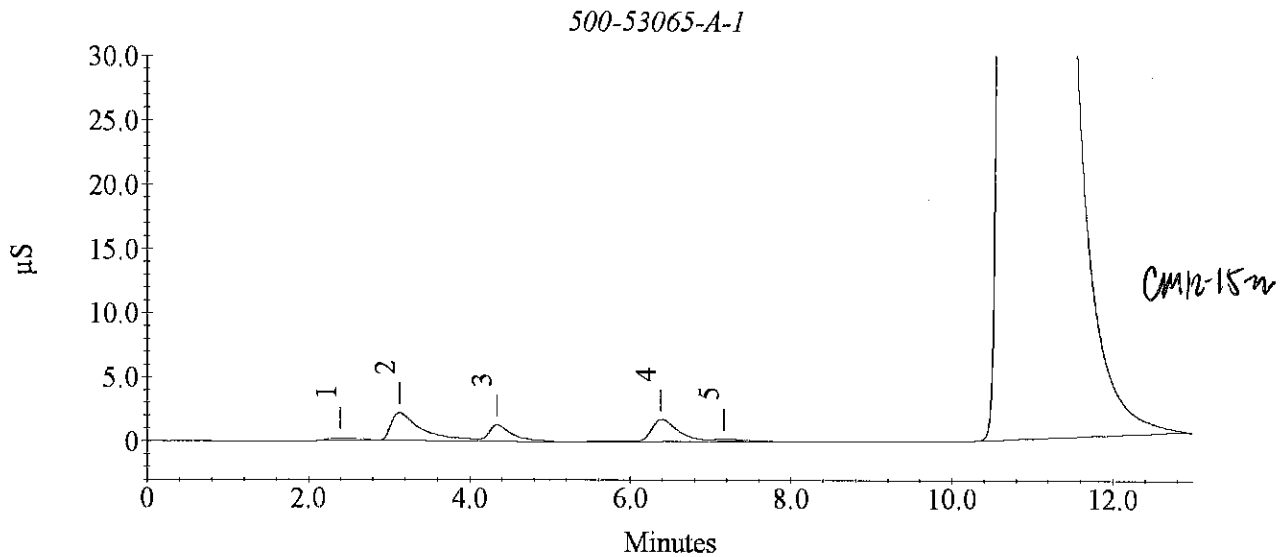
Sample Analysis Report

Sample Name : 500-53065-A-1
Data File Name : c:\peaknet\data\20121214\D6410_010.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:42:43 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 10

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDEm	3.13	1.2726	552005	21443
3	CHLORIDE NITRITEm	4.33	0.8524	251880	12697
4	BROMIDEm	6.38	2.7312	426314	17250
5	NITRATEm OrthophosPm	7.17	0.1417	41598	1625
6	SULFATEOR	10.83	468.2884	119028489	3469267



Sample Analysis Report

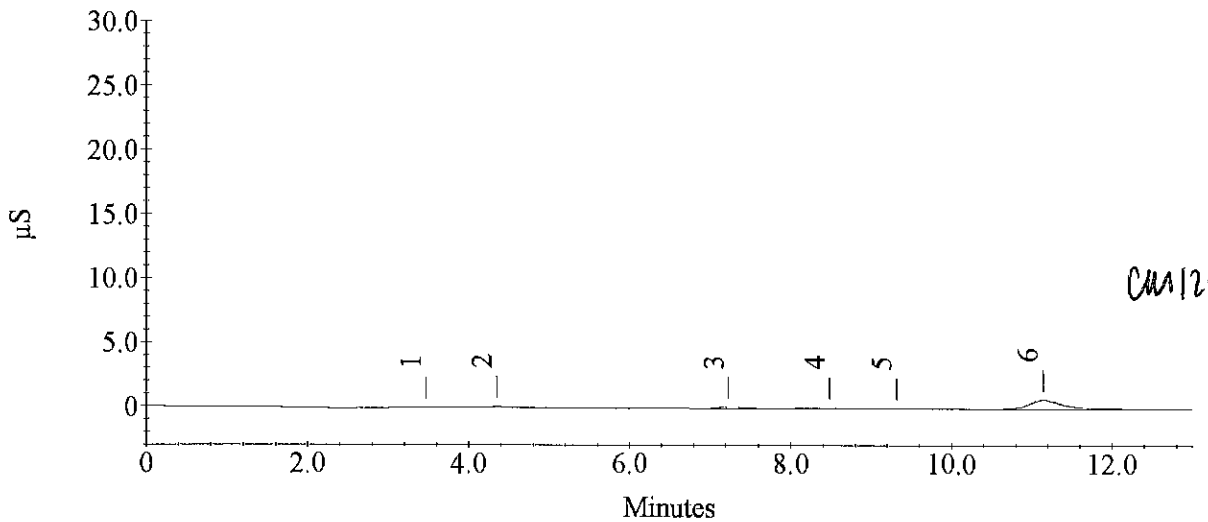
Sample Name : 500-53065-A-2
Data File Name : c:\peaknet\data\20121214\D6410_011.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:58:05 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 11

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDEm				
2	CHLORIDE	4.35	0.1911	20208	1014
	NITRITEm				
	BROMIDEm				
3	NITRATE m	7.23	0.1181	20279	938
5	OrthophosPm	9.32	0.1097	10281	350
6	SULFATE	11.13	0.8978	216816	6943

500-53065-A-2



CM 12-15-12

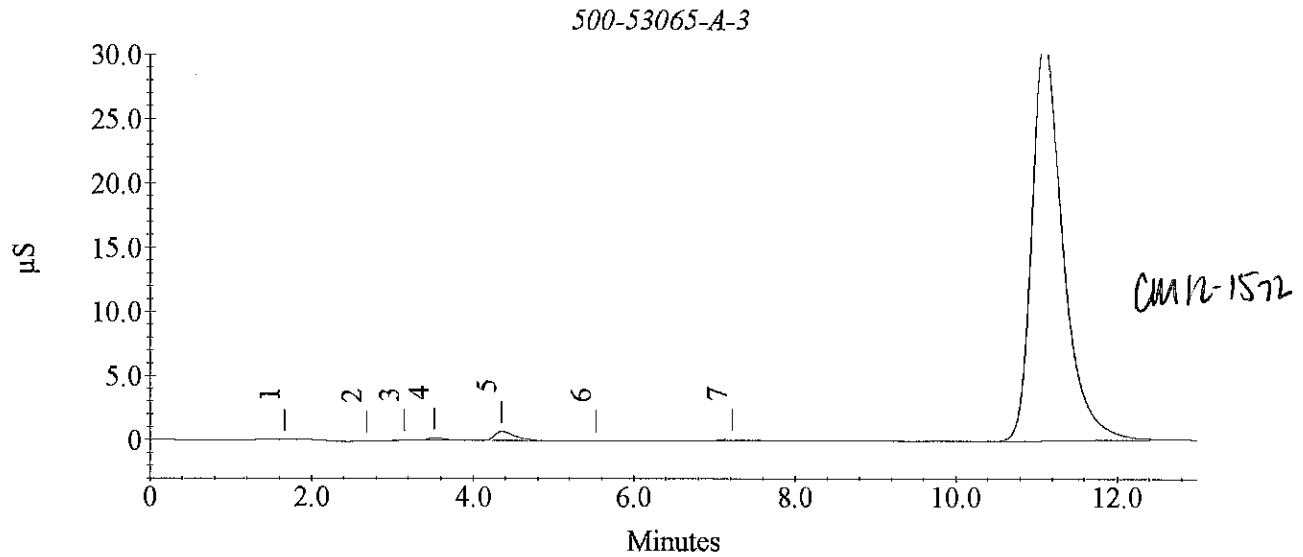
Sample Analysis Report

Sample Name : 500-53065-A-3
Data File Name : c:\peaknet\data\20121214\D6410_012.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 12:13:27 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 12

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE m	3.15	0.1073	7069	556
5	CHLORIDE	4.35	0.4938	126245	7250
6	NITRITE m	5.53	0.1065	2465	125
	BROMIDE m				
7	NITRATE m	7.22	0.1257	27153	1140
	OrthophosP m				
8	SULFATE KE	11.10	32.8319	8334532	310216



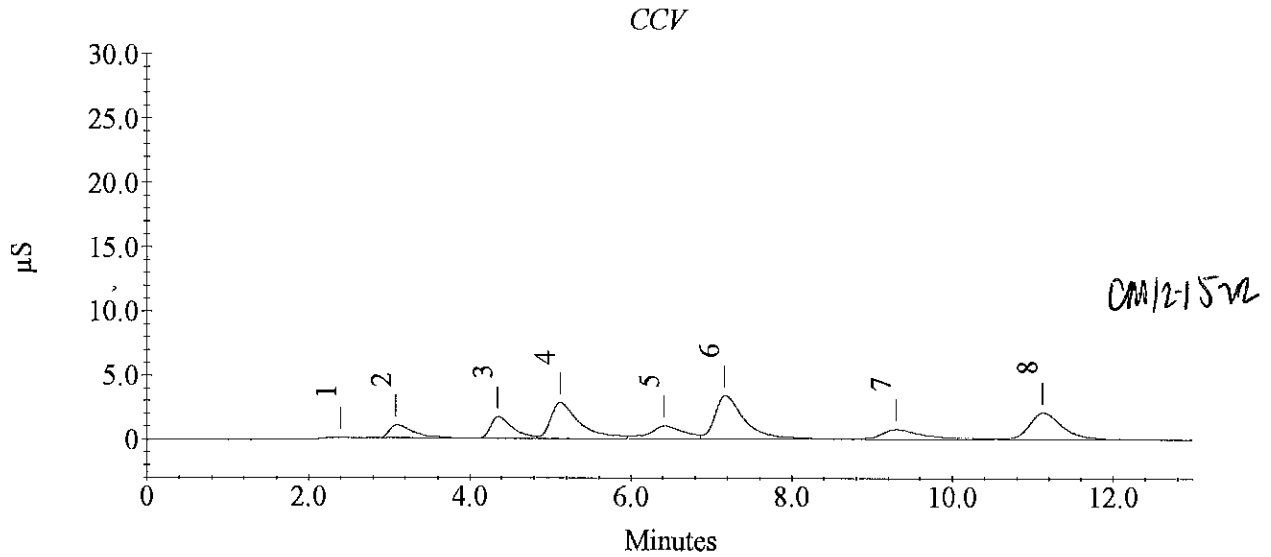
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\peaknet\data\20121214\D6410_013.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 12:28:48 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 13

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.08	0.5514	214711	10221
3	CHLORIDE	4.35	1.0181	309908	16715
4	NITRITE	5.12	1.0102	677856	27694
5	BROMIDE	6.42	1.8015	276024	9633
6	NITRATE	7.17	1.0293	841145	33188
7	OrthophosP	9.30	1.0858	267659	7587
8	SULFATE	11.12	2.3509	586195	20481



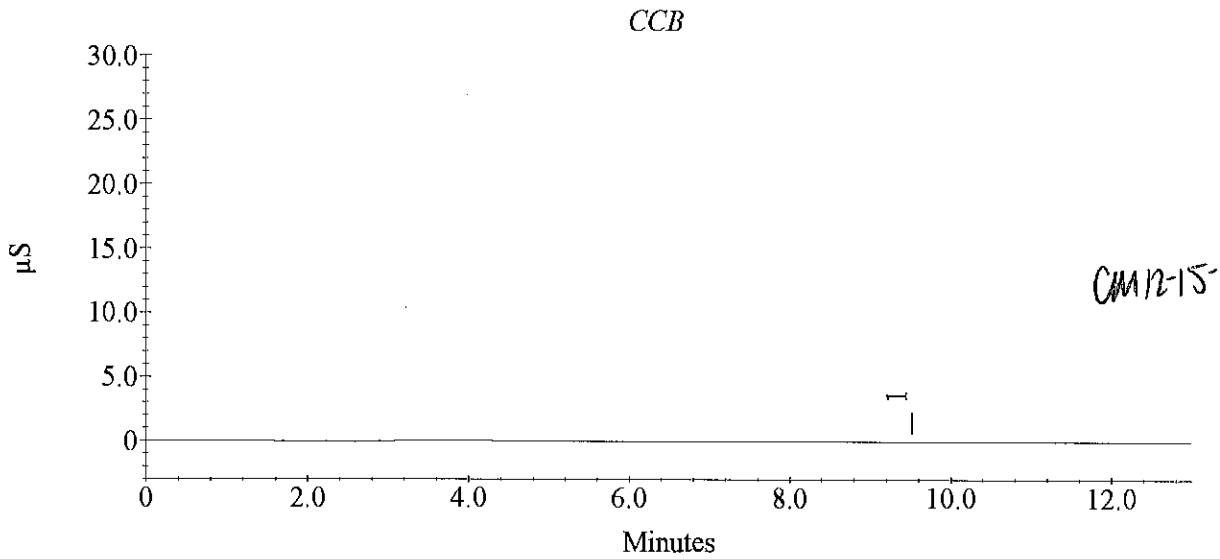
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\peaknet\data\20121214\D6410_014.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 12:44:10 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE				
	CHLORIDE				
	NITRITE				
	BROMIDE				
	NITRATE				
1	OrthophosP	9.52	0.0766	1529	90
	SULFATE				



CM 12-15-12

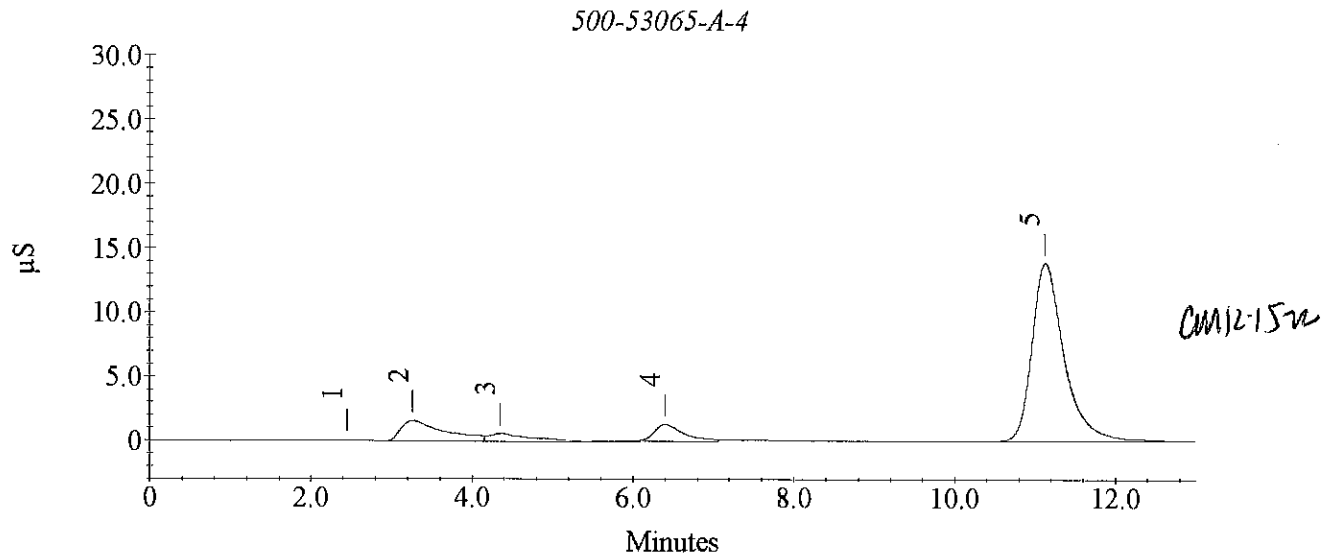
Sample Analysis Report

Sample Name : 500-53065-A-4
Data File Name : c:\peaknet\data\20121214\D6410_015.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 12:59:32 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 15

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDEm	3.27	1.3879	605905	15979
3	CHLORIDECE,RE NITRITEm	4.35	0.7559	218068	6111
4	BROMIDEm NITRATEm OrthophosPm	6.40	2.3559	365643	13261
5	SULFATERE	11.12	15.2030	3853240	137699



CM12-15-12

Sample Analysis Report

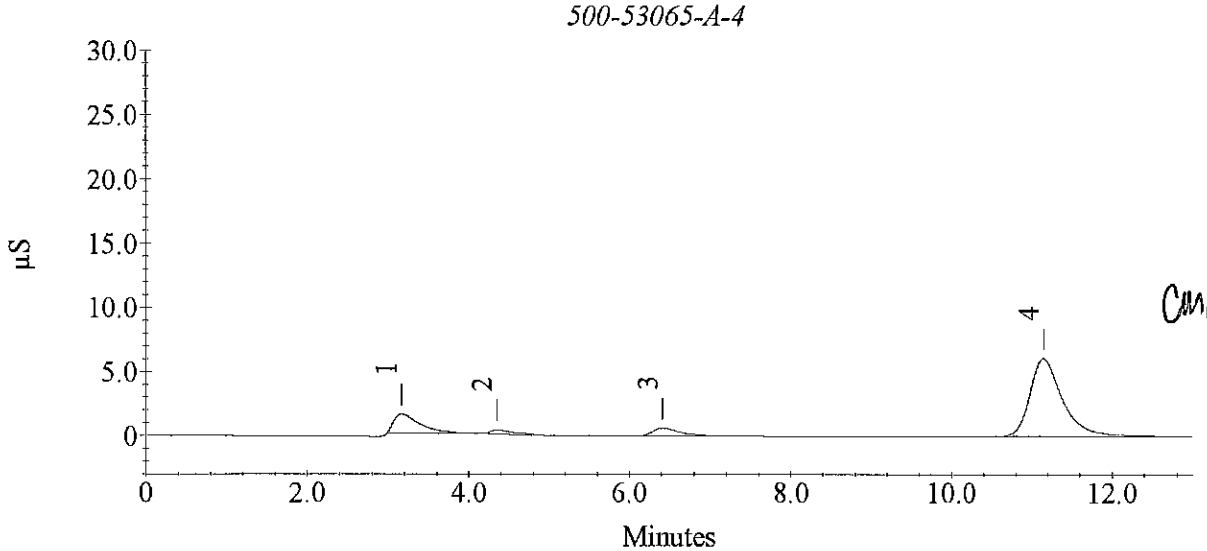
Sample Name : 500-53065-A-4
Data File Name : c:\peaknet\data\20121214\D6410_016.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 1:14:53 PM
System Operator : Colleen Moore
Dilution Factor : 2.00
Injection Number : 16

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE m	3.17	1.6700	347367	15041
2	CHLORIDE AO	4.35	0.6445	66142	3129
	NITRITE m				
3	BROMIDE m	6.42	1.8060	130770	5907
	NITRATE m				
	OrthophosP m				
4	SULFATE VE	11.15	13.5876	1715599	60441

500-53065-A-4



CMM 12-15-12

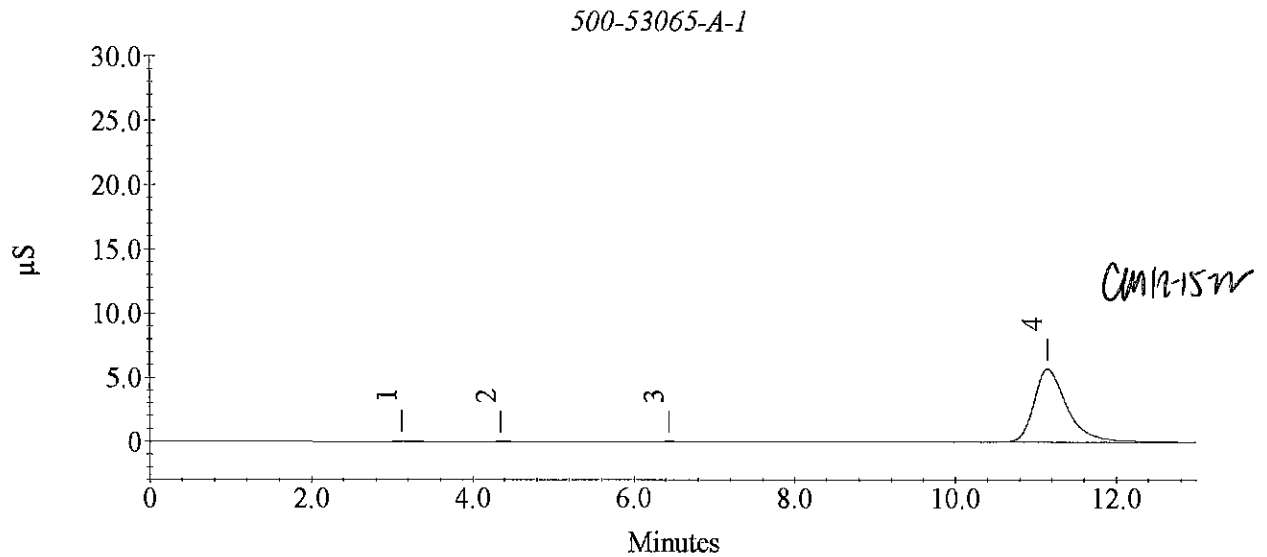
Sample Analysis Report

Sample Name : 500-53065-A-1
Data File Name : c:\peaknet\data\20121214\D6410_017.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 1:30:15 PM
System Operator : Colleen Moore
Dilution Factor : 50.00
Injection Number : 17

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDEm	3.12	5.6593	9806	555
2	CHLORIDE ~~m~~ NITRITEm	4.35	7.5442	6114	357
3	BROMIDEm NITRATEm OrthophosPm	6.43	6.4921	5778	319
4	SULFATE	11.15	318.4874	1607803	56853



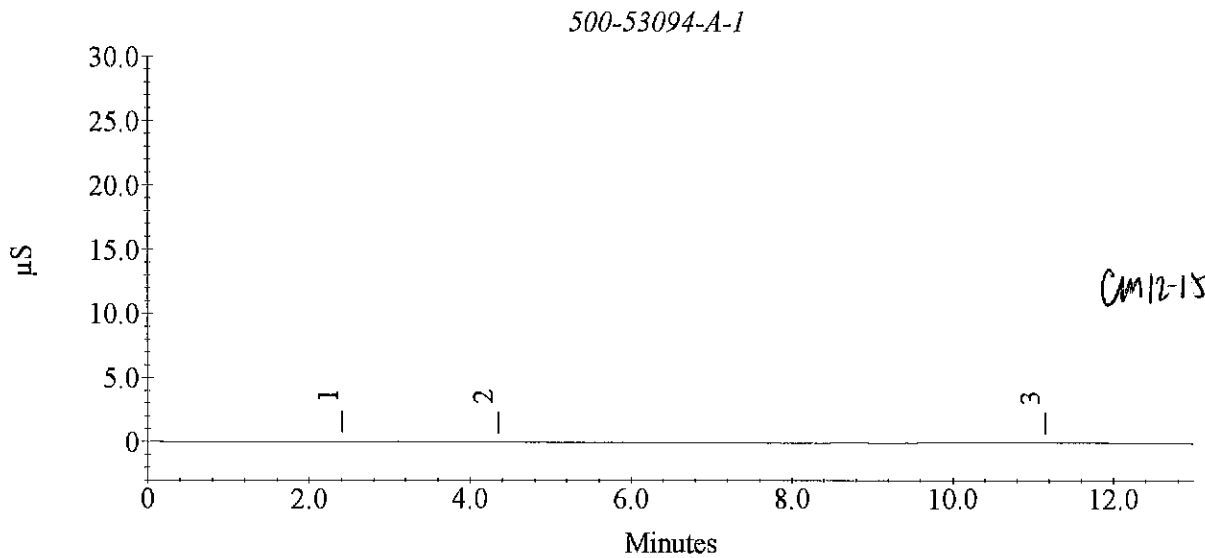
Sample Analysis Report

Sample Name : 500-53094-A-1
Data File Name : c:\peaknet\data\20121214\D6410_018.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 5:17:22 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 18

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE				
2	CHLORIDE	4.35	0.1385	1764	148
	NITRITE m				
	BROMIDE m				
	NITRATE m				
	OrthophosP m				
3	SULFATE	11.15	0.0671	5668	263



CM 12-15-12

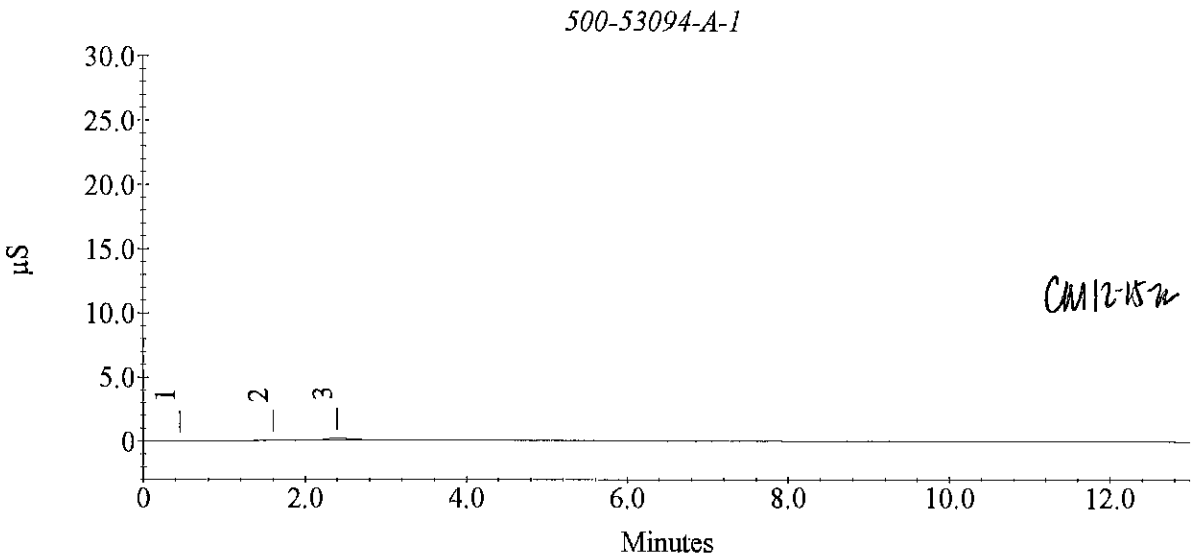
Sample Analysis Report

Sample Name : 500-53094-A-1
Data File Name : c:\peaknet\data\20121214\D6410_019.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 5:32:43 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 19

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE RE				
	CHLORIDE RE				
	NITRITE m				
	BROMIDE m				
	NITRATE m				
	OrthophosP m				
	SULFATE RE				



CM 12-15-12

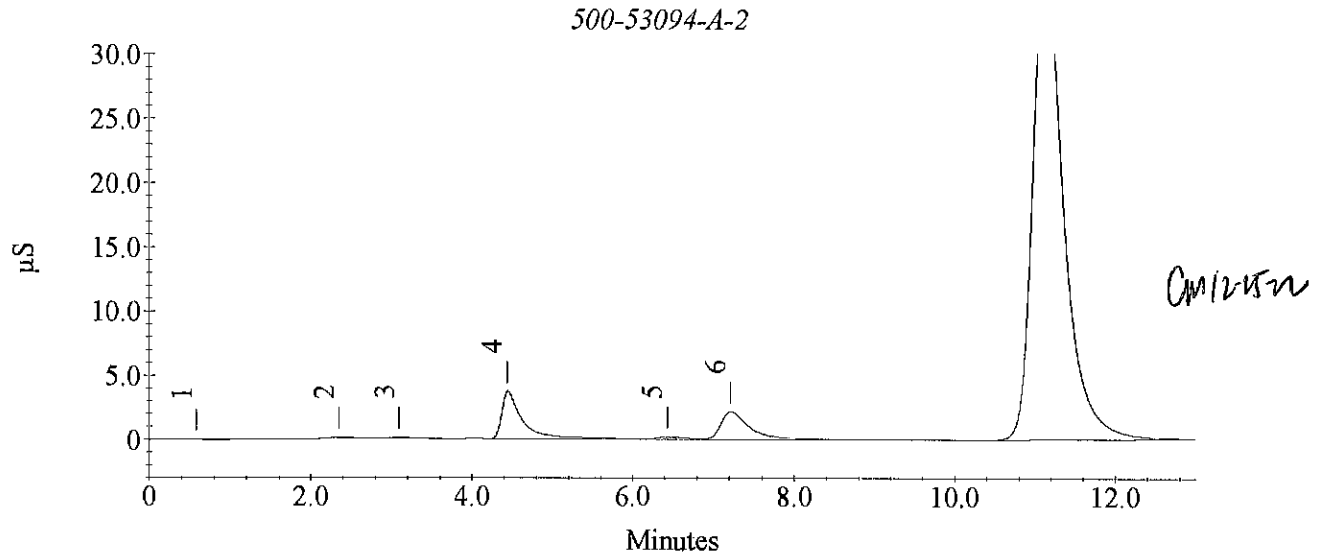
Sample Analysis Report

Sample Name : 500-53094-A-2
Data File Name : c:\peaknet\data\20121214\D6410_020.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 5:48:05 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 20

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.10	0.1455	24908	1266
4	CHLORIDE	4.43	2.1010	689284	36740
	NITRITEm				
5	BROMIDEm	6.43	0.3494	41270	1699
6	NITRATEm	7.22	0.6771	523853	21359
	OrthophosPm				
7	SULFATEOl	11.13	39.0020	9902994	373643



Sample Analysis Report

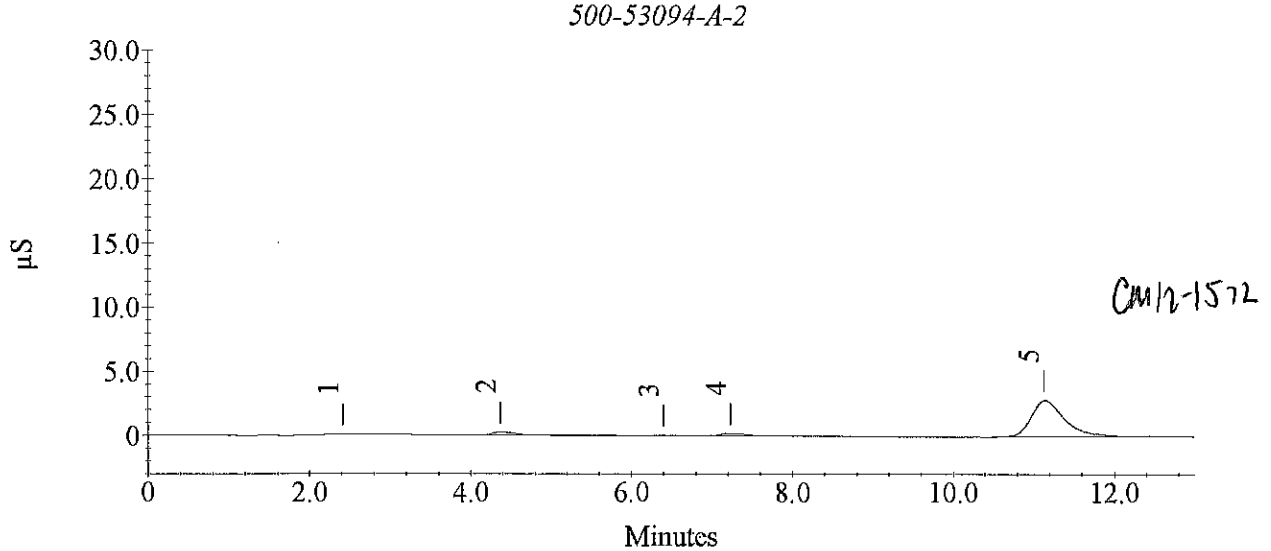
Sample Name : 500-53094-A-2
Data File Name : c:\peaknet\data\20121214\D6410_021.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 6:03:27 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 21

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE ~~ET~~				
2	CHLORIDE ~~ET~~	4.37	3.2620	67533	2723
	NITRITE m				
3	BROMIDE m	6.40	1.3268	6237	255
4	NITRATE m	7.23	1.5530	53822	2053
	OrthophosP m				
5	SULFATE	11.13	32.8496	823644	28099

500-53094-A-2



CM12-1572

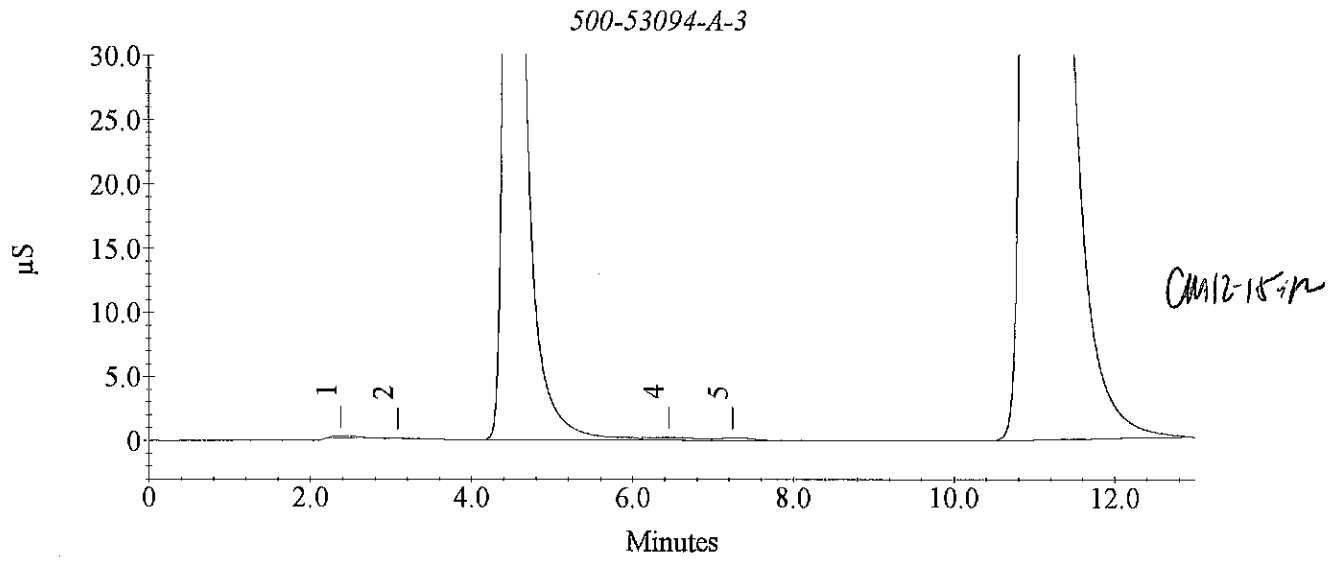
Sample Analysis Report

Sample Name : 500-53094-A-3
Data File Name : c:\peaknet\data\20121214\D6410_022.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 6:18:48 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 22

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.08	0.1163	11285	586
3	CHLORIDE OR NITRITE m	4.50	45.2557	15807383	1110746
4	BROMIDE m	6.45	0.5553	74555	2315
5	NITRATE m OrthophosP m	7.25	0.1797	75836	2367
6	SULFATE OR	11.05	182.1038	46279770	1614792



CM 12-15-12

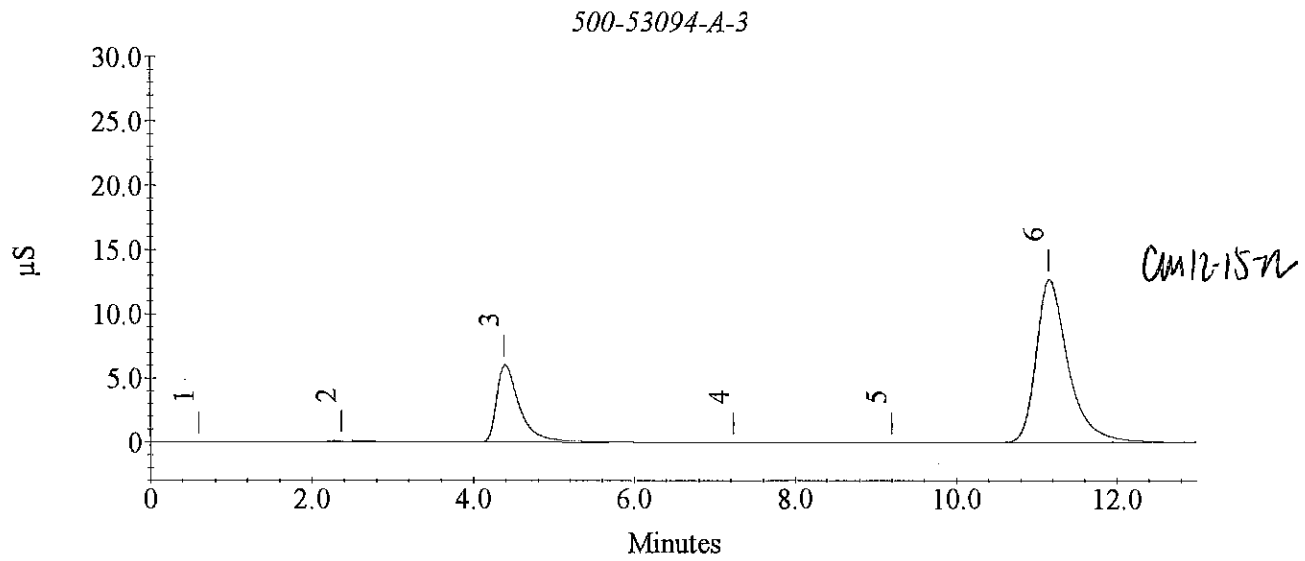
Sample Analysis Report

Sample Name : 500-53094-A-3
Data File Name : c:\peaknet\data\20121214\D6410_023.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 6:34:10 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 23

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE RE				
3	CHLORIDE	4.38	35.3600	1192000	59791
	NITRITE m				
	BROMIDE m				
4	NITRATE m	7.23	0.9836	2531	143
5	OrthophosP m	9.20	0.9674	6853	165
6	SULFATE m	11.15	139.9788	3546891	126648



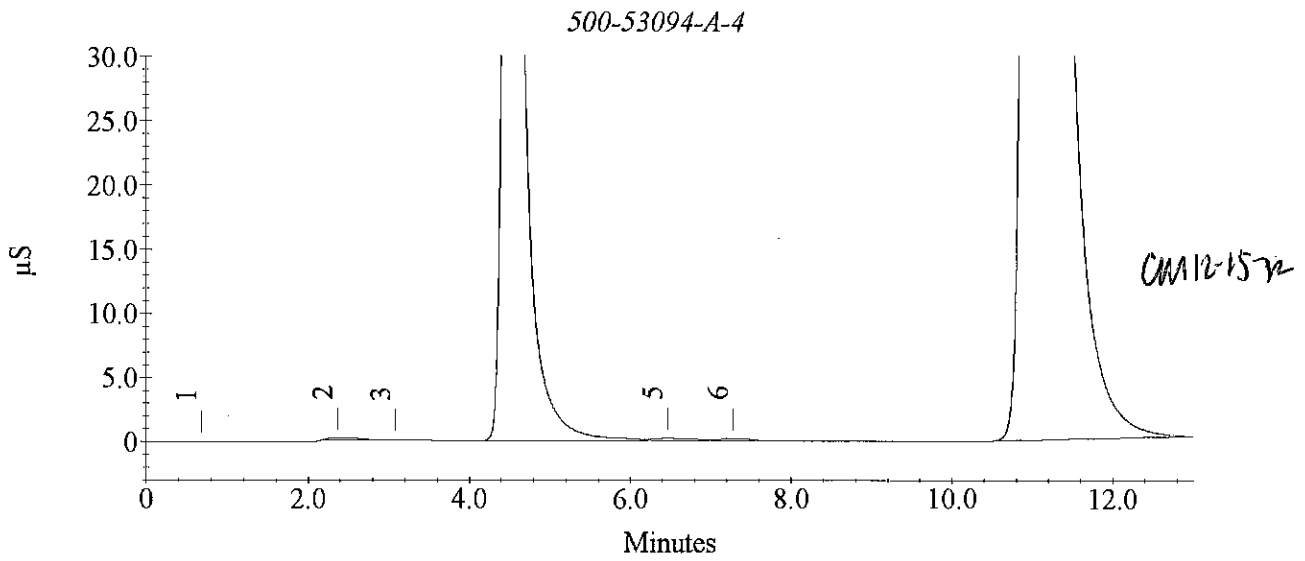
Sample Analysis Report

Sample Name : 500-53094-A-4
Data File Name : c:\peaknet\data\20121214\D6410_024.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 6:49:32 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 24

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.08	0.1135	9939	588
4	CHLORIDE OR NITRITE m	4.52	45.4068	15860322	1117717
5	BROMIDE m	6.47	0.5244	69566	2117
6	NITRATE m OrthophosP m	7.28	0.1610	58994	2114
7	SULFATE OR	11.08	182.1731	46297374	1617547



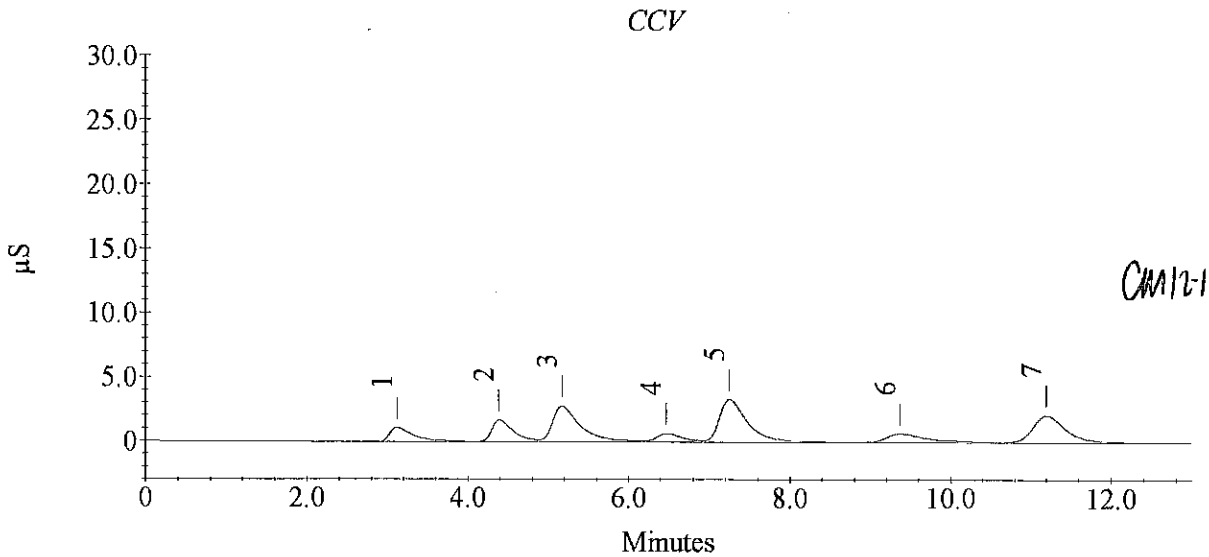
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\peaknet\data\20121214\D6410_025.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 7:04:54 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 25

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE	3.12	0.5565	217106	10799
2	CHLORIDE	4.38	0.9972	302603	16675
3	NITRITE	5.17	0.9962	667435	27531
4	BROMIDE	6.47	0.9712	141793	6498
5	NITRATE	7.25	0.9842	800460	33010
6	OrthophosP	9.37	0.9821	240318	6755
7	SULFATE	11.20	2.4086	600883	21084



CM 12-15-12

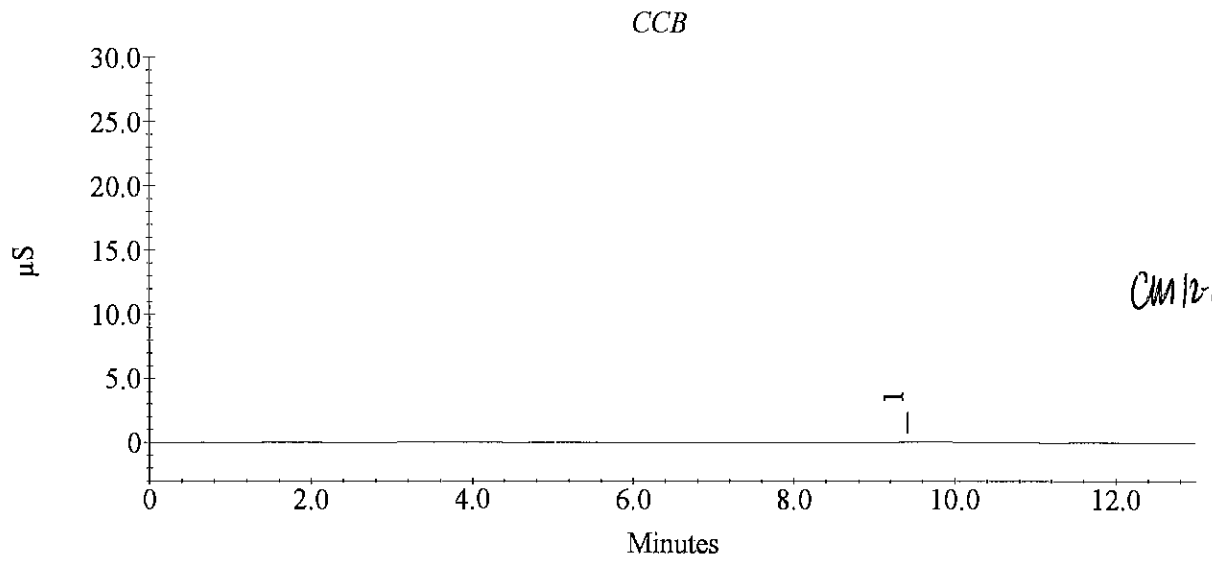
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\peaknet\data\20121214\D6410_026.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 7:20:14 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE				
	CHLORIDE				
	NITRITE				
	BROMIDE				
	NITRATE				
	OrthophosP				
	SULFATE				



CM 12-15-12

Sample Analysis Report

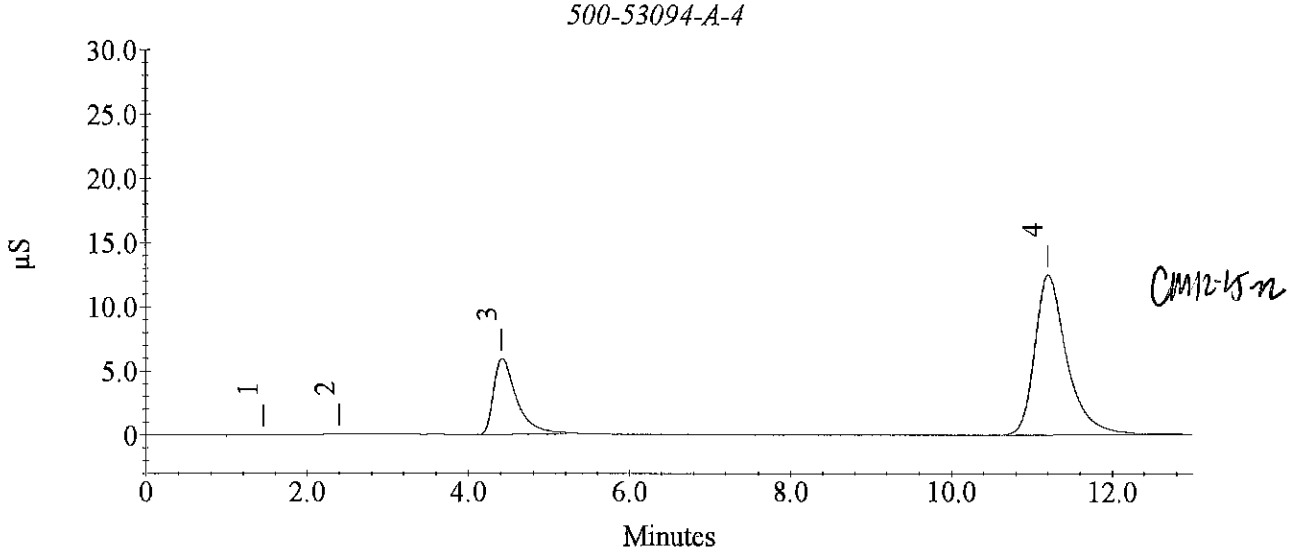
Sample Name : 500-53094-A-4
Data File Name : c:\peaknet\data\20121214\D6410_027.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 7:35:36 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 27

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE KC CHLORIDE NITRITE m BROMIDE m NITRATE m OrthophosP m	4.42	35.7751	1206542	58759
4	SULFATE OK	11.20	136.4413	3456965	124278

500-53094-A-4



CM 12-15-12

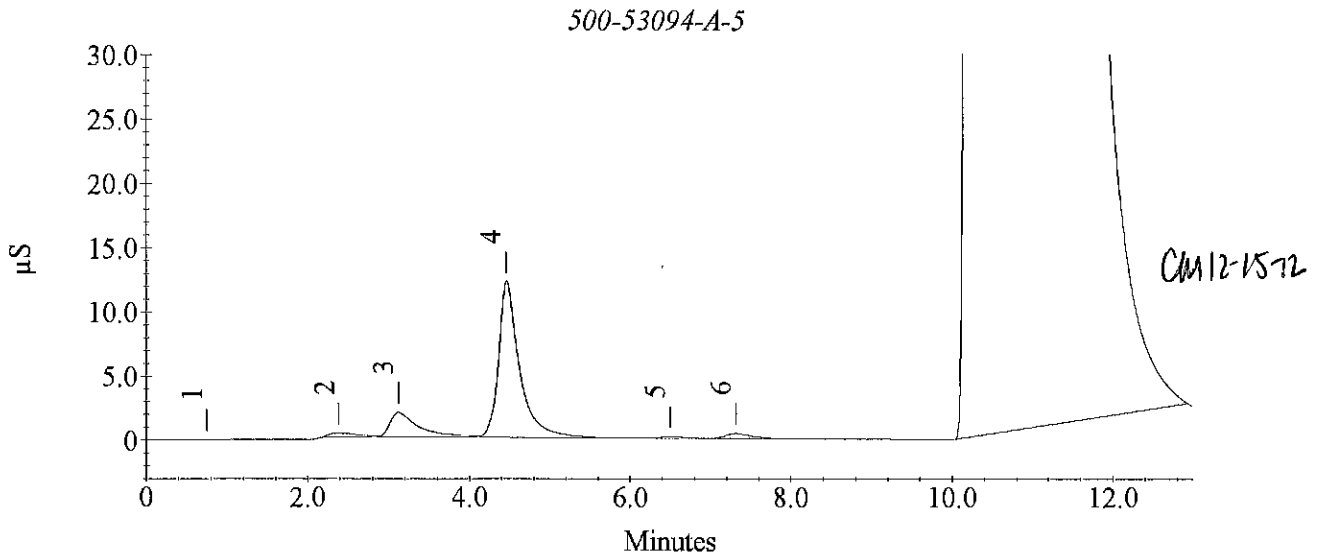
Sample Analysis Report

Sample Name : 500-53094-A-5
Data File Name : c:\peaknet\data\20121214\D6410_028.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 7:50:57 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 28

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.12	1.0611	453088	18635
4	CHLORIDE	4.45	6.3678	2184036	120439
	NITRITE m				
5	BROMIDE m	6.50	0.2146	19484	972
6	NITRATE m	7.32	0.1918	86660	3849
	OrthophosP m				
7	SULFATE Or	10.47	2008.4534	510541651	9651318



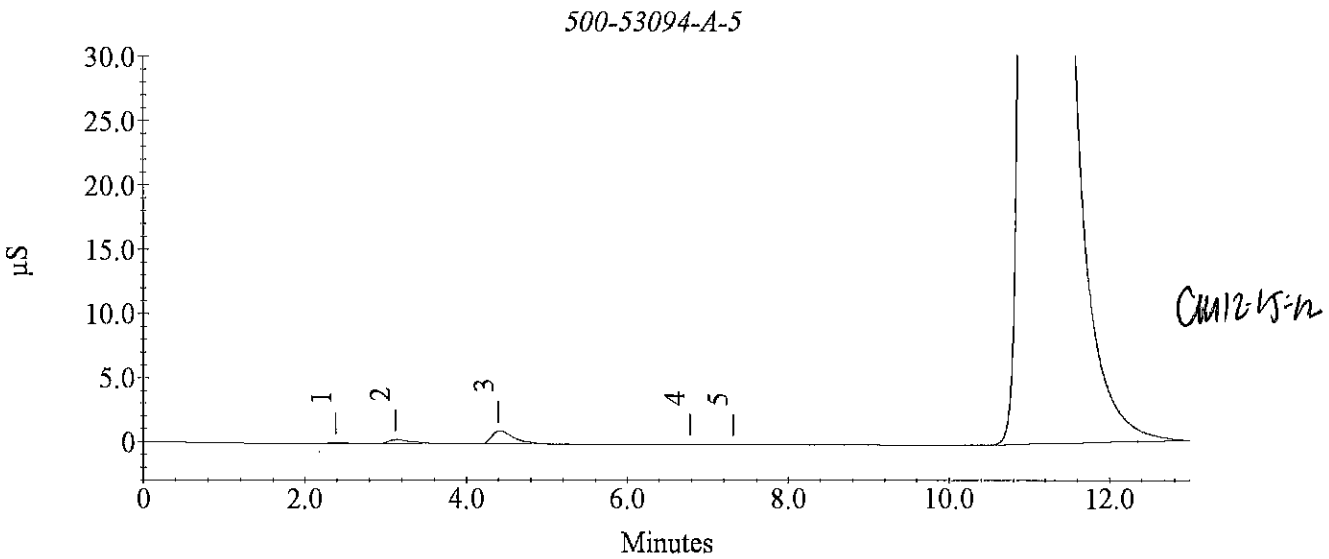
Sample Analysis Report

Sample Name : 500-53094-A-5
Data File Name : c:\peaknet\data\20121214\D6410_029.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 8:06:19 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 29

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.12	2.4085	69509	2986
3	CHLORIDE	4.40	7.1247	202850	10195
	NITRITE				
	BROMIDE				
4	NITRATE	6.78	1.1471	17253	544
	OrthophosP				
6	SULFATE	11.10	1989.7244	50567808	1697753



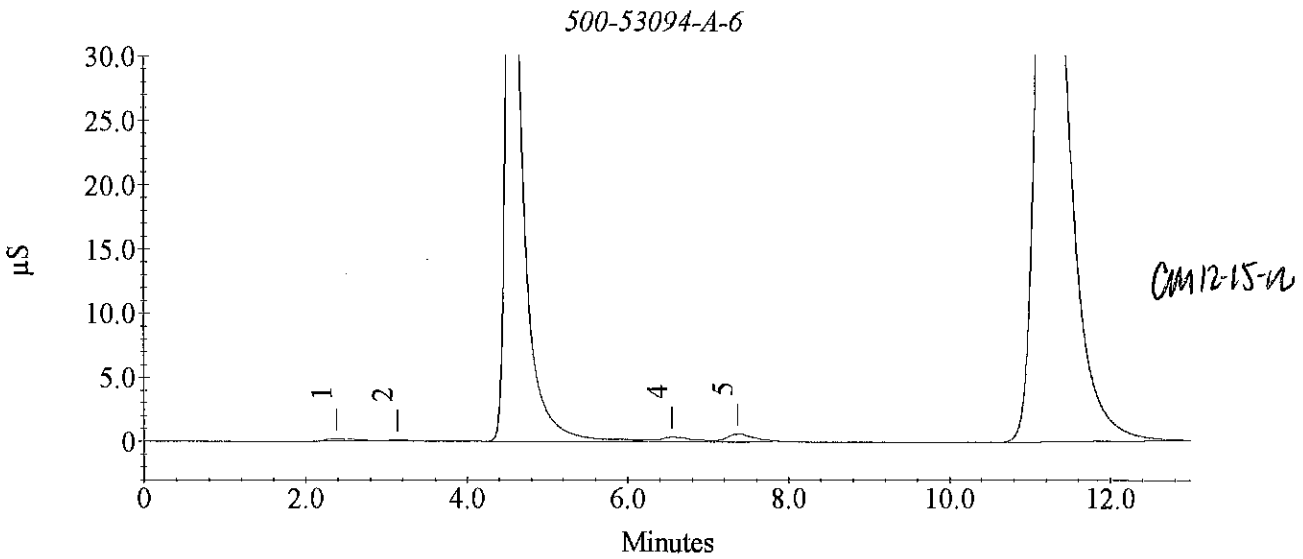
Sample Analysis Report

Sample Name : 500-53094-A-6
Data File Name : c:\peaknet\data\20121214\D6410_030.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 8:21:41 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 30

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.13	0.1177	11902	691
3	CHLORIDE OK NITRITE m	4.55	21.9121	7629581	557190
4	BROMIDE m	6.55	0.6902	96361	3622
5	NITRATE m OrthophosP m	7.37	0.2712	158229	6175
6	SULFATE OK	11.23	58.4289	14841359	555054



CM 12-15-12

Sample Analysis Report

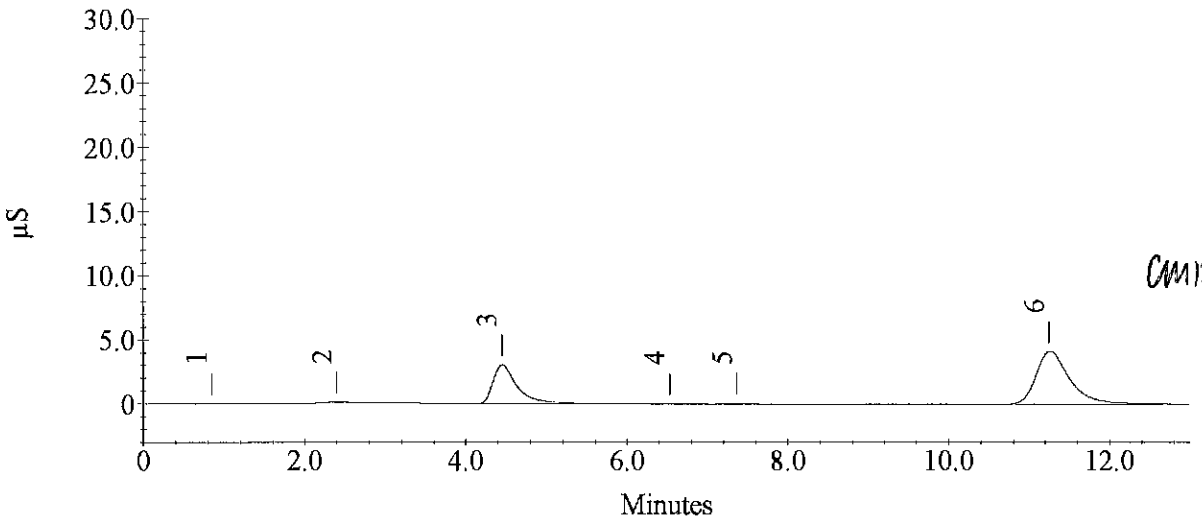
Sample Name : 500-53094-A-6
Data File Name : c:\peaknet\data\20121214\D6410_031.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 8:37:02 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 31

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE CHLORIDE	4.45	19.1488	624084	30076
4	NITRITE BROMIDE	6.53	1.5438	9745	360
5	NITRATE	7.37	1.0851	11673	514
6	OrthophosP SULFATE	11.25	47.3125	1191293	41050

500-53094-A-6



CM12-15-12

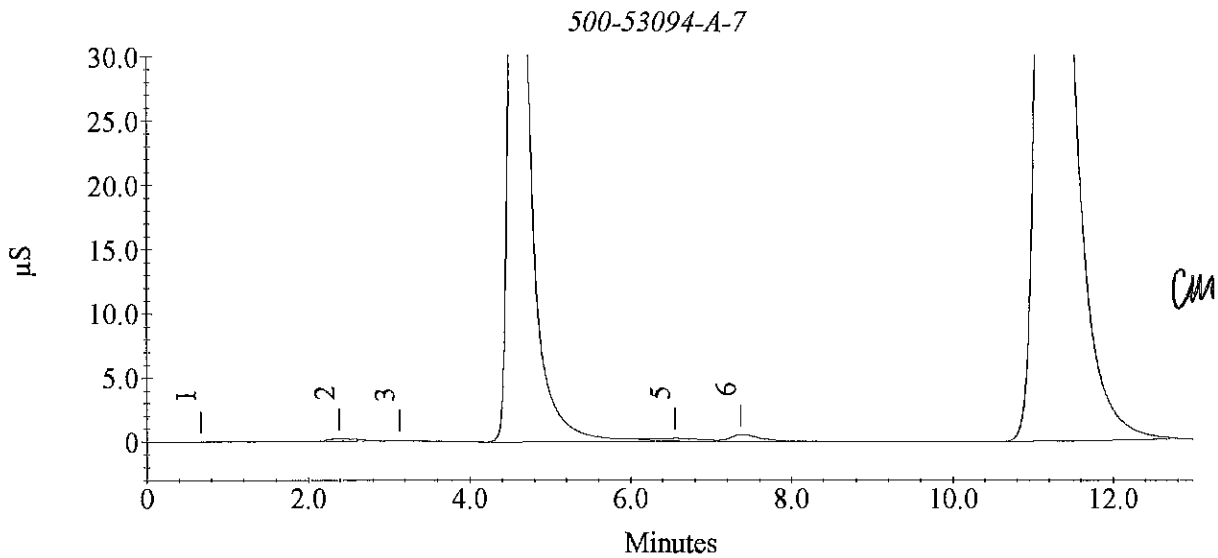
Sample Analysis Report

Sample Name : 500-53094-A-7
Data File Name : c:\peaknet\data\20121214\D6410_032.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 8:52:24 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 32

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.13	0.1386	21695	714
4	CHLORIDE OR NITRITE m	4.57	35.6315	12435826	904249
5	BROMIDE m	6.55	0.6041	82444	2498
6	NITRATE m OrthophosP m	7.37	0.2608	148810	5482
7	SULFATE OR	11.23	89.6836	22786346	841372



CM12-1572

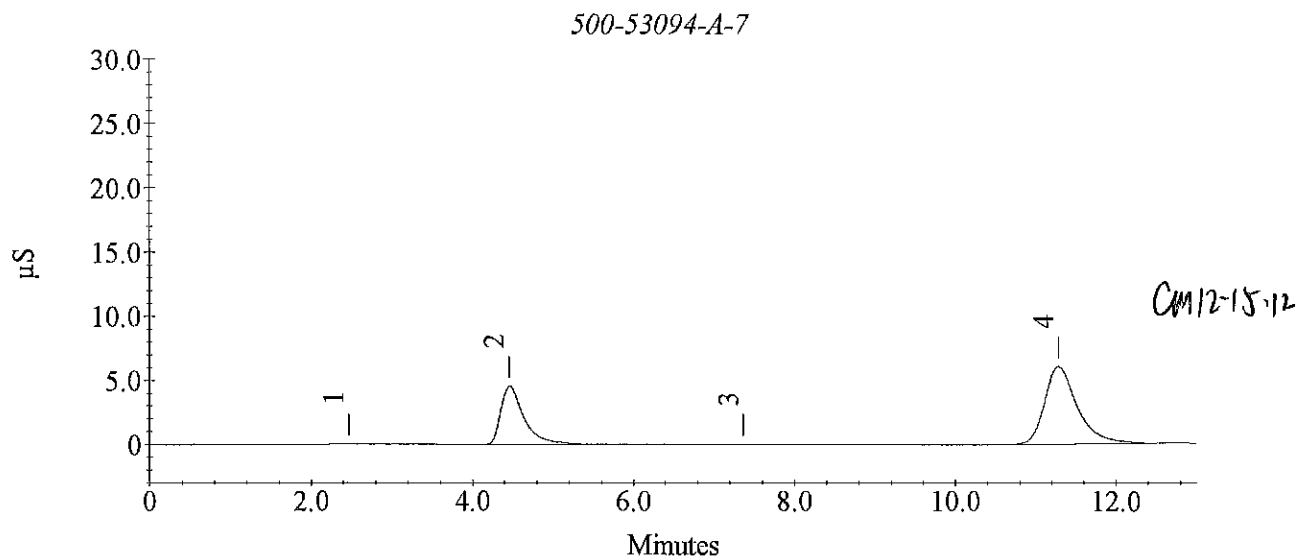
Sample Analysis Report

Sample Name : 500-53094-A-7
Data File Name : c:\peaknet\data\20121214\D6410_033.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:07:45 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 33

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE RE CHLORIDE NITRITE m	4.45	27.9301	931712	45148
3	BROMIDE m NITRATE m	7.37	1.1409	16697	623
4	OrthophosP m SULFATE	11.28	67.8976	1714571	60173



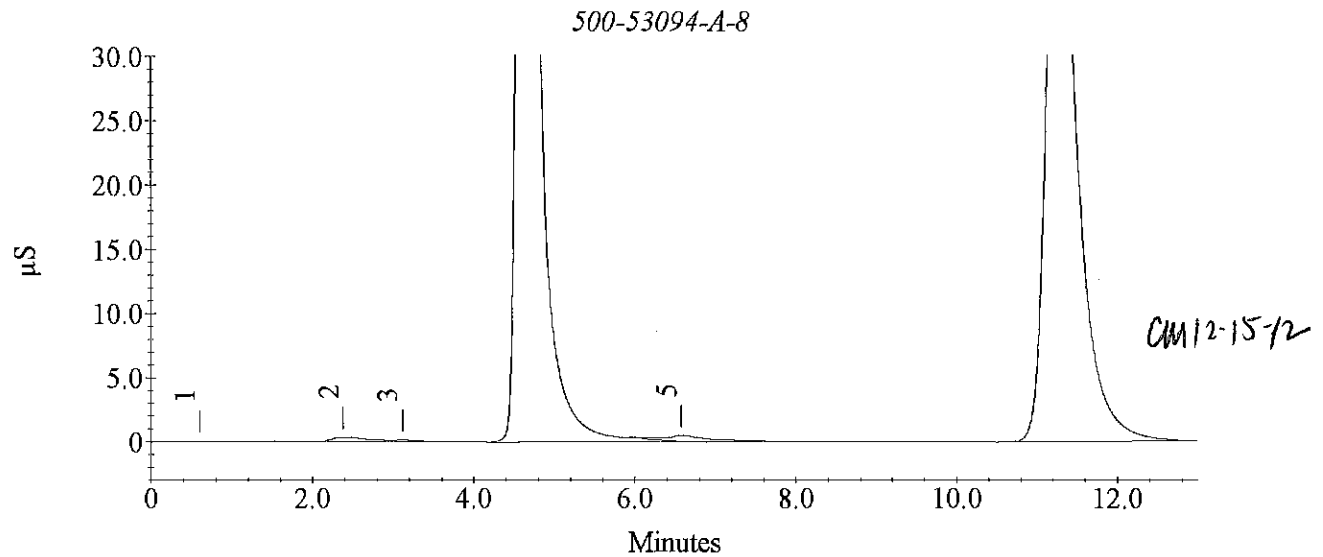
Sample Analysis Report

Sample Name : 500-53094-A-8
Data File Name : c:\peaknet\data\20121214\D6410_034.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:23:07 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 34

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.12	0.1401	22389	1015
4	CHLORIDE OR NITRITE m	4.63	59.7850	20897343	1574745
5	BROMIDE m NITRATE m OrthophosP m	6.58	1.1576	171933	4514
6	SULFATE OR	11.28	50.4771	12819982	486616



Sample Analysis Report

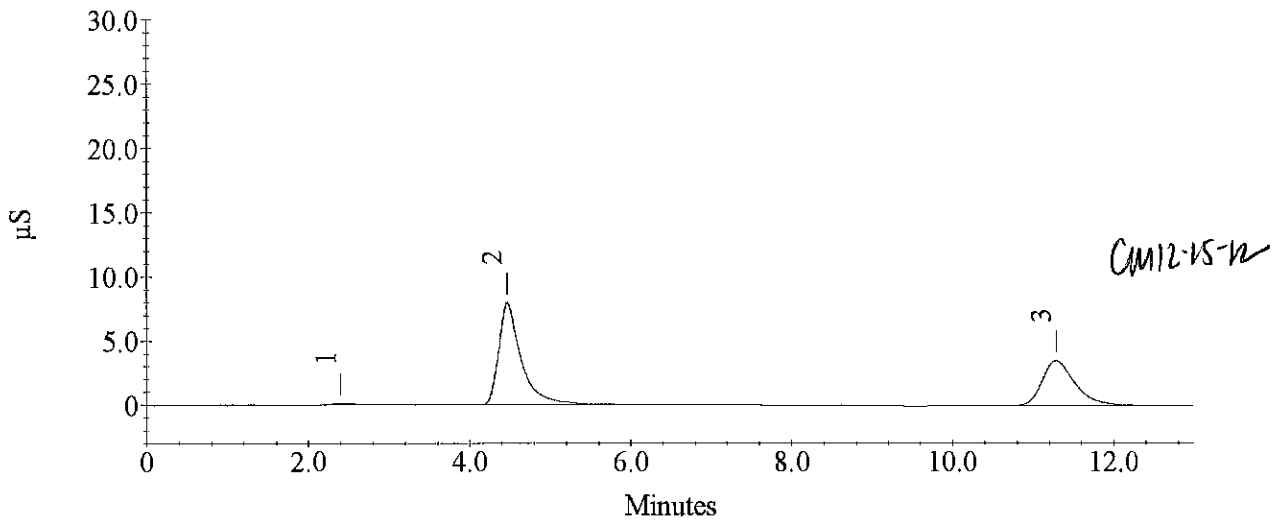
Sample Name : 500-53094-A-8
Data File Name : c:\peaknet\data\20121214\D6410_035.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:38:28 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 35

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE RE CHLORIDE NITRITE m BROMIDE m NITRATE m OrthophosP m	4.47	45.4994	1547206	79122
3	SULFATE	11.28	39.9570	1004315	35090

500-53094-A-8



Sample Analysis Report

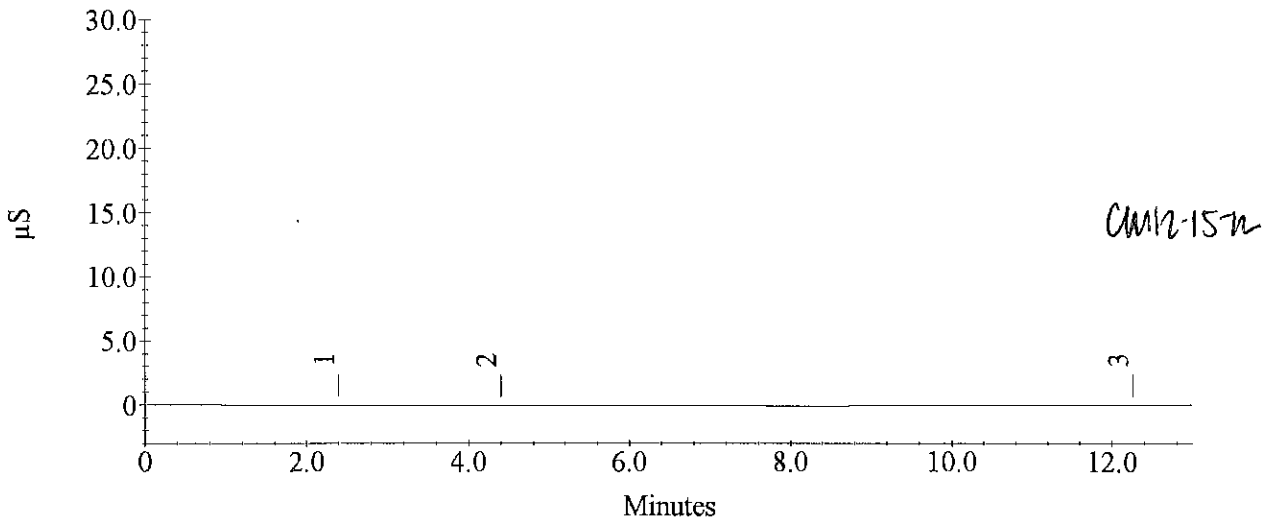
Sample Name : 500-53094-A-9
Data File Name : c:\peaknet\data\20121214\D6410_036.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 9:53:50 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 36

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE				
2	CHLORIDE	4.40	0.1366	1095	95
	NITRITE m				
	BROMIDE m				
	NITRATE m				
	OrthophosP m				
	SULFATE				

500-53094-A-9



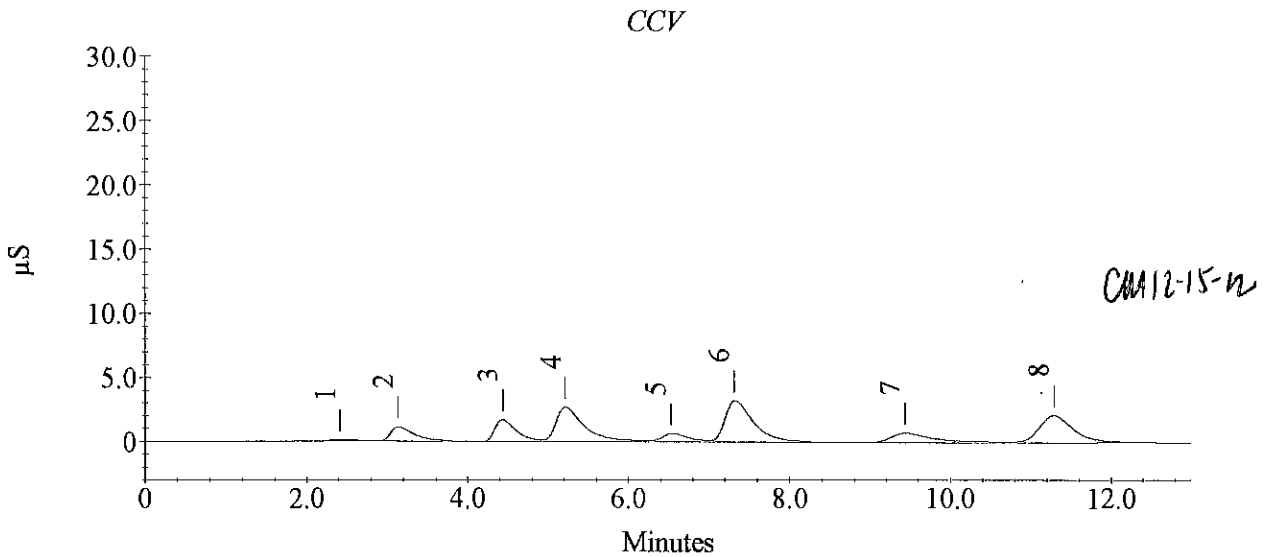
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\peaknet\data\20121214\D6410_037.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:09:11 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 37

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.13	0.5680	222480	10888
3	CHLORIDE	4.43	1.0378	316809	16810
4	NITRITE	5.22	1.0020	671772	26863
5	BROMIDE	6.53	1.0336	151879	6591
6	NITRATE	7.32	0.9971	812102	32245
7	OrthophosP	9.43	1.0931	269594	7361
8	SULFATE	11.28	2.4657	615373	20954



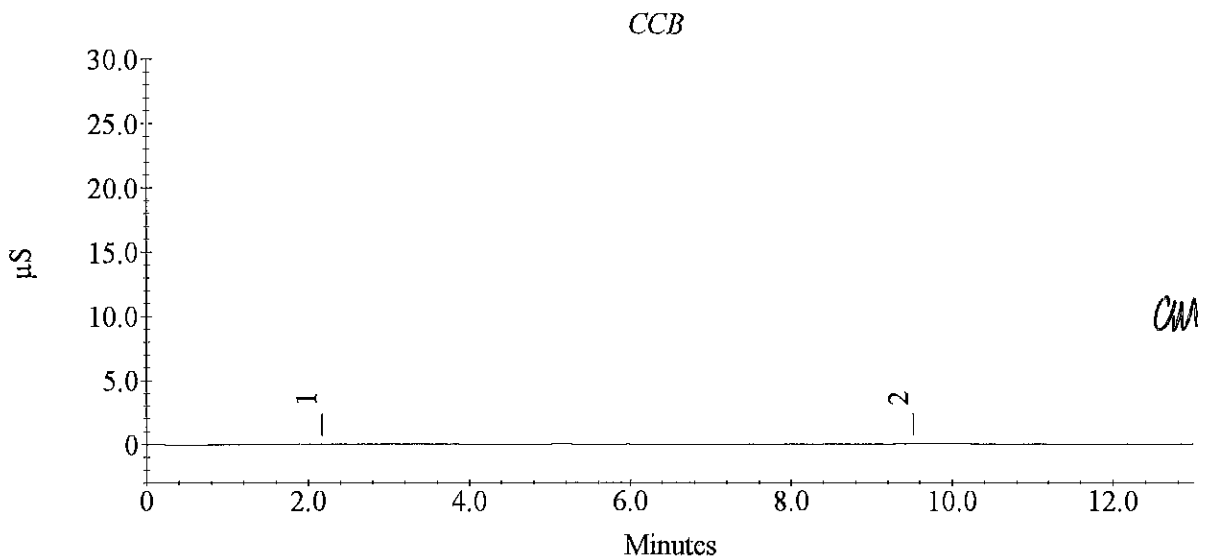
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\peaknet\data\20121214\D6410_038.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:24:33 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 38

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE				
	CHLORIDE				
	NITRITE				
	BROMIDE				
	NITRATE				
2	OrthophosP	9.52	0.0841	3514	152
	SULFATE				



CM 12-15-12

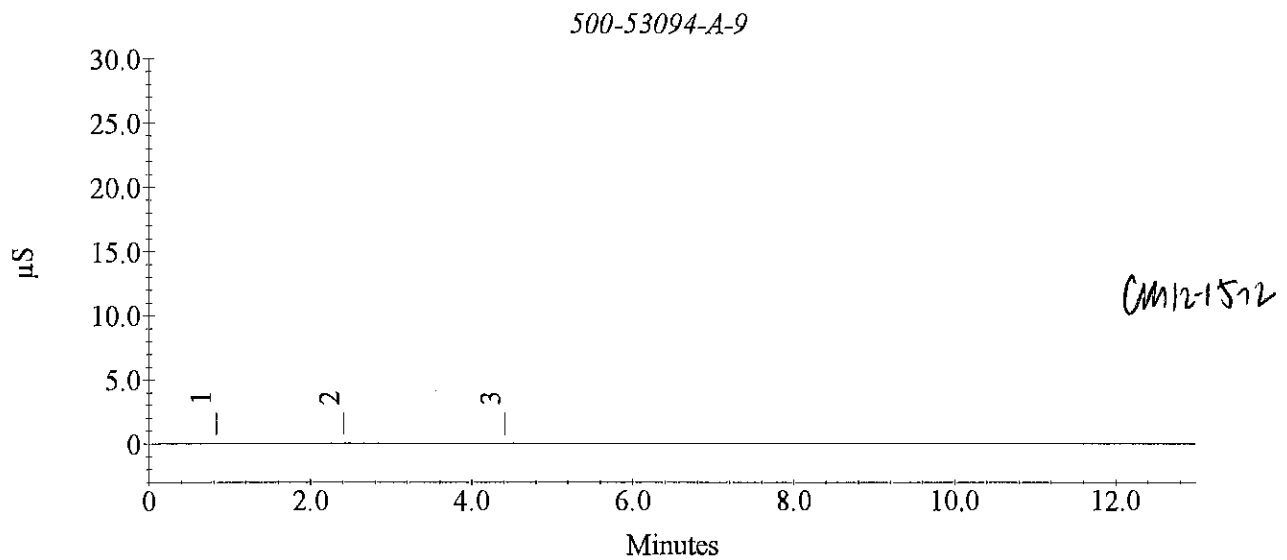
Sample Analysis Report

Sample Name : 500-53094-A-9
Data File Name : c:\peaknet\data\20121214\D6410_039.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:39:54 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 39

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE RE				
3	CHLORIDE RE	4.42	1.4220	3072	224
	NITRITE m				
	BROMIDE m				
	NITRATE m				
	OrthophosP m				
	SULFATE RE				



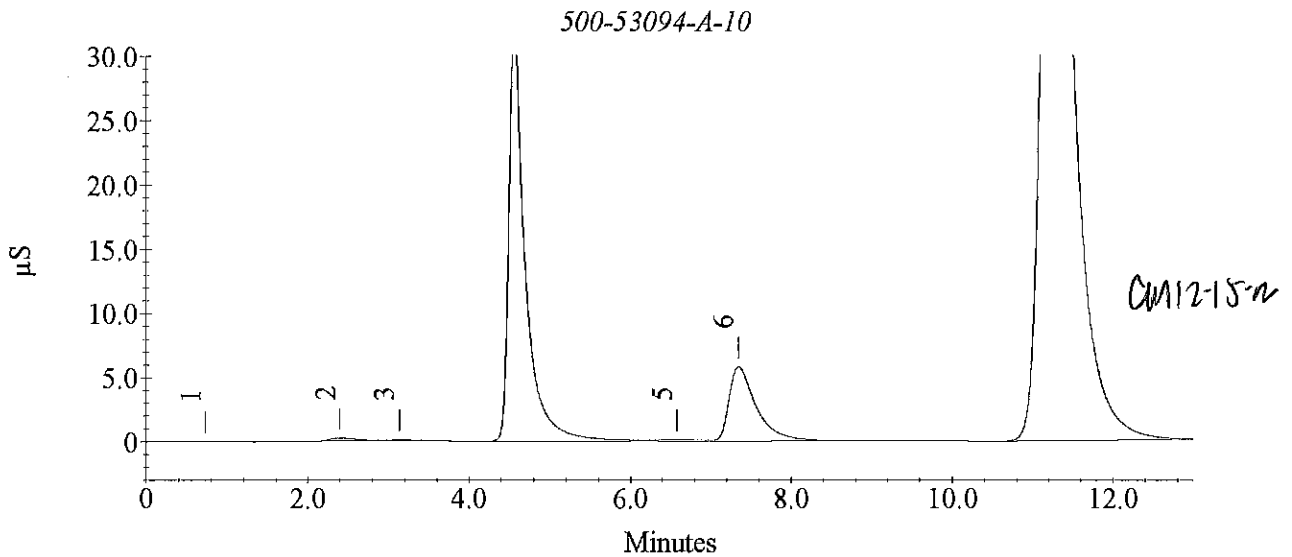
Sample Analysis Report

Sample Name : 500-53094-A-10
Data File Name : c:\peaknet\data\20121214\D6410_040.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 10:55:16 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 40

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.13	0.1353	20147	973
4	CHLORIDE OK NITRITE w	4.57	13.1804	4570660	326037
5	BROMIDE m	6.58	0.3537	41975	1442
6	NITRATE m OrthophosP m	7.35	1.6267	1379227	57794
7	SULFATE OK	11.28	68.3210	17355940	644221



Sample Analysis Report

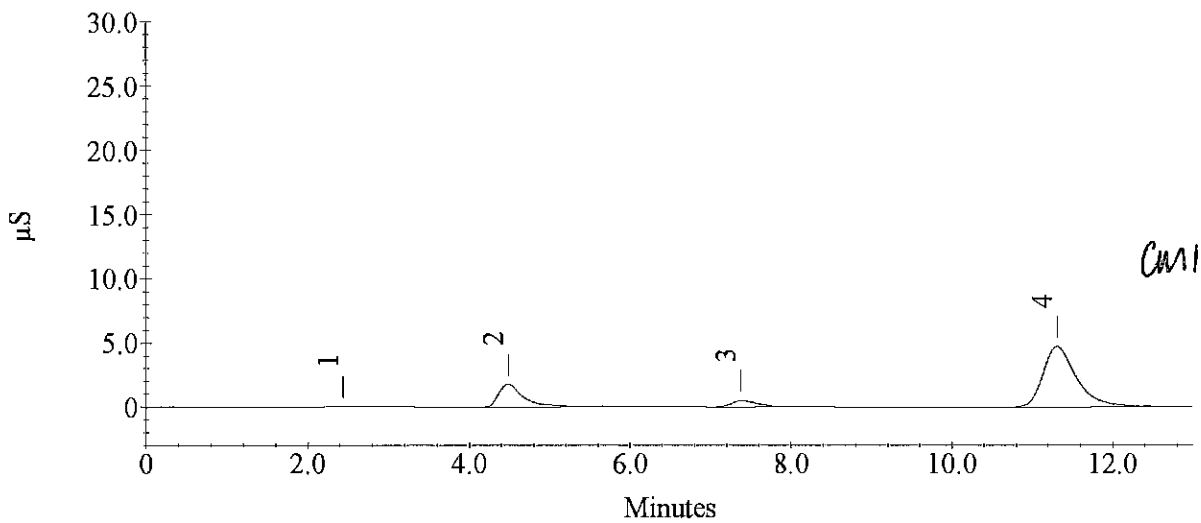
Sample Name : 500-53094-A-10
Data File Name : c:\peaknet\data\20121214\D6410_041.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:10:38 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 41

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE vs CHLORIDE NITRITE m	4.48	12.8996	405158	17934
3	BROMIDE m NITRATE m	7.38	2.2324	115022	4933
4	OrthophosP m SULFATE	11.32	54.0583	1362773	47295

500-53094-A-10



CM 12-15-12

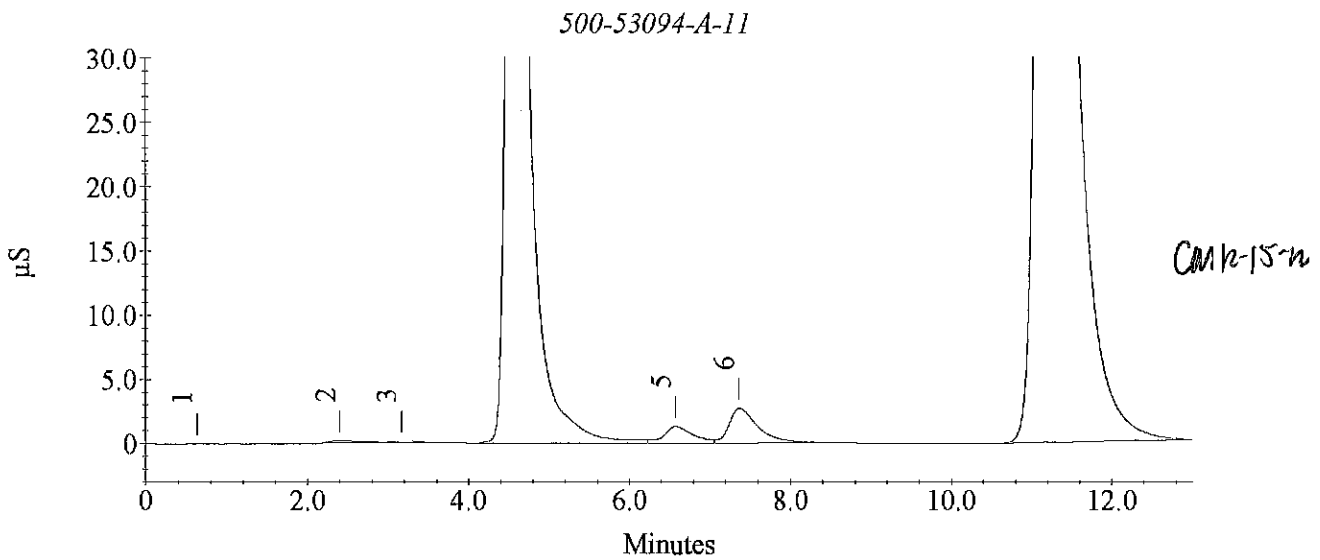
Sample Analysis Report

Sample Name : 500-53094-A-11
Data File Name : c:\peaknet\data\20121214\D6410_042.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:25:59 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 42

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.17	0.1288	17102	986
4	CHLORIDE Ok	4.57	48.9463	17100286	1132773
	NITRITE n				
5	BROMIDE n	6.58	2.0128	310181	12754
6	NITRATE n	7.37	0.8361	667124	26719
	OrthophosP n				
7	SULFATE Ok	11.25	118.2085	30037459	1072690



Sample Analysis Report

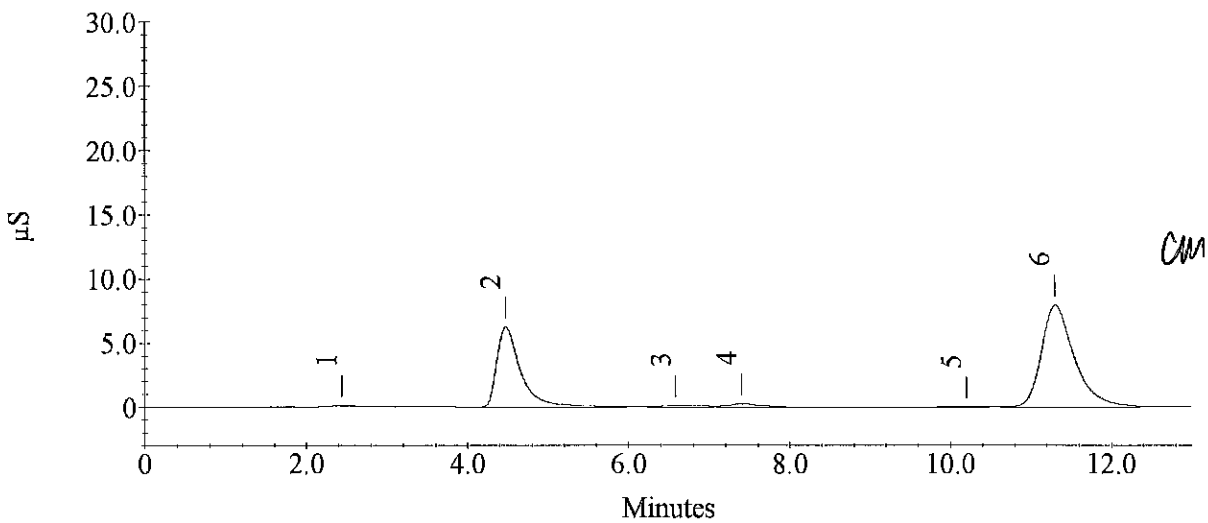
Sample Name : 500-53094-A-11
Data File Name : c:\peaknet\data\20121214\D6410_043.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:41:21 PM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 43

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
	FLUORIDE RE				
2	CHLORIDE	4.47	38.3652	1297280	62201
	NITRITE m				
3	BROMIDE m	6.58	3.6772	44235	1470
4	NITRATE m	7.40	1.6929	66420	2515
	OrthophosP m				
6	SULFATE	11.30	89.7806	2270841	79403

500-53094-A-11



CM12-15n

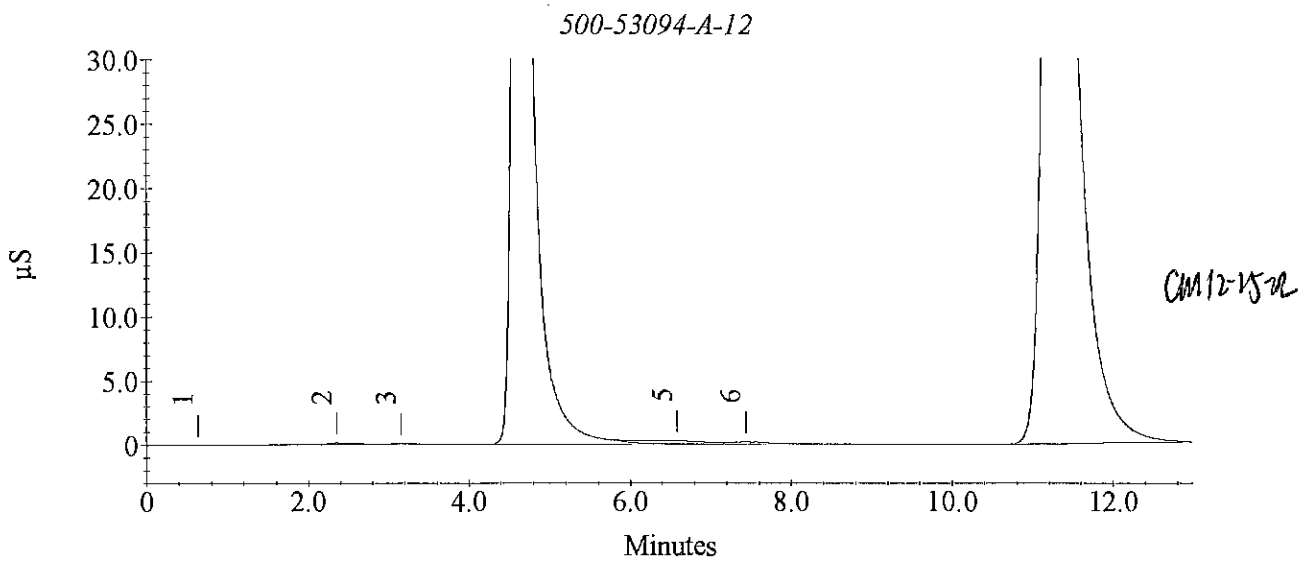
Sample Analysis Report

Sample Name : 500-53094-A-12
Data File Name : c:\peaknet\data\20121214\D6410_044.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/14/12 11:56:42 PM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 44

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.15	0.1149	10614	569
4	CHLORIDE OK	4.63	43.5732	15217961	1149740
	NITRITE m				
5	BROMIDE m	6.58	0.6013	82000	2690
6	NITRATE m	7.43	0.1610	58990	1996
	OrthophosP m				
7	SULFATE OK	11.30	80.6474	20489343	765311



Sample Analysis Report

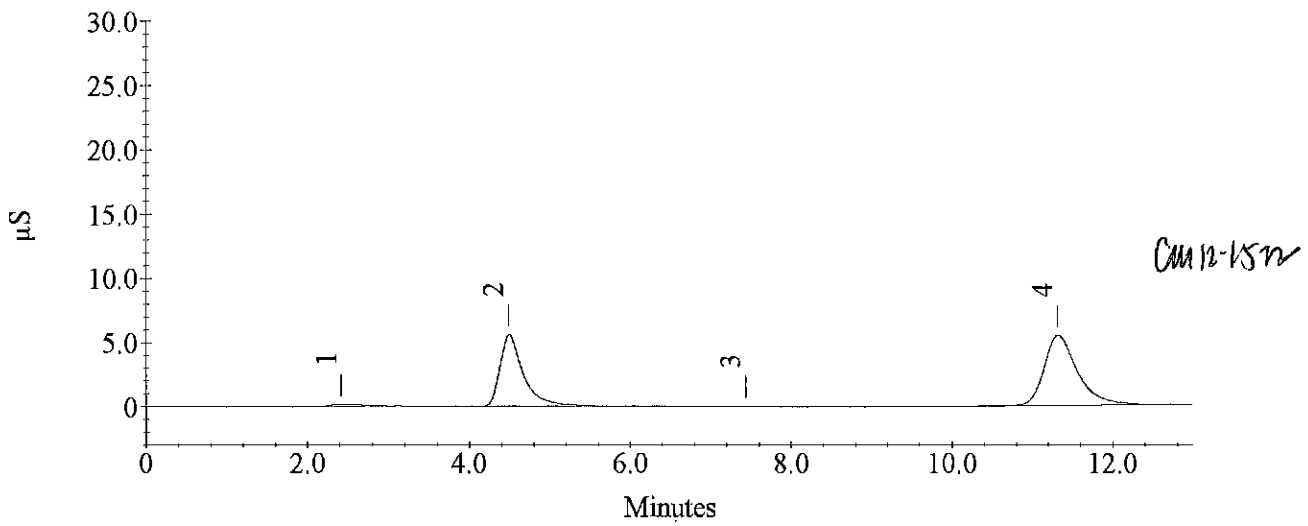
Sample Name : 500-53094-A-12
Data File Name : c:\peaknet\data\20121214\D6410_045.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 12:12:04 AM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 45

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE KE CHLORIDE NITRITE m	4.48	33.3013	1119880	55481
3	BROMIDE m NITRATE m	7.43	0.9773	1957	140
4	OrthophosP m SULFATE	11.32	62.8635	1586604	54447

500-53094-A-12



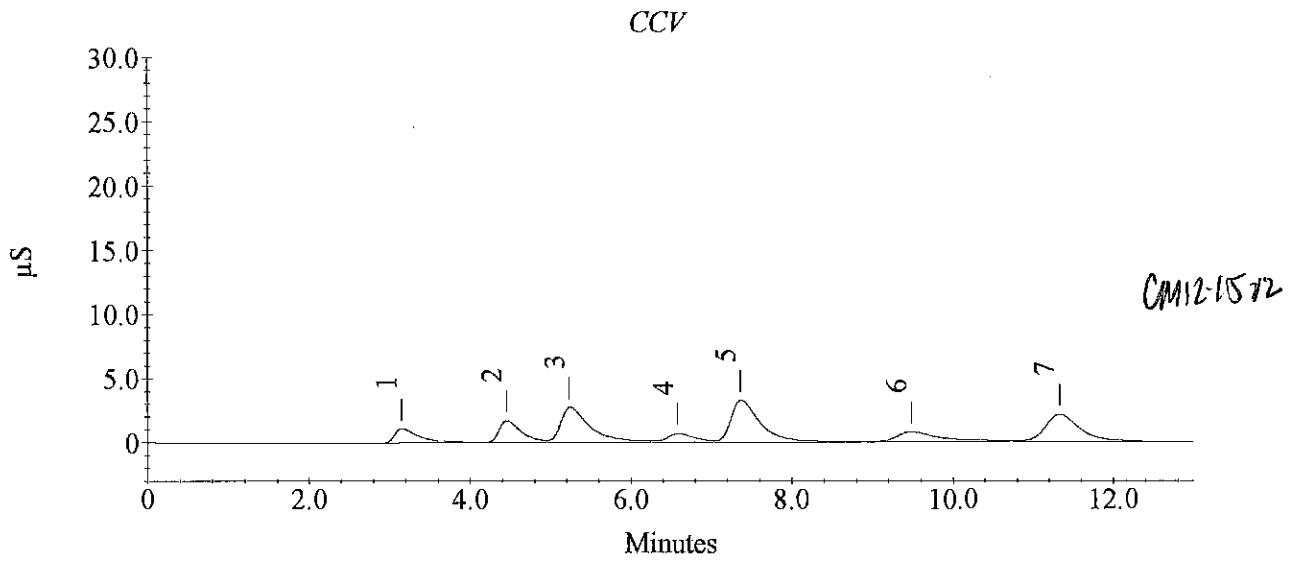
Sample Analysis Report

Sample Name : CCV
Data File Name : C:\PEAKNET\DATA\20121214\D6410_046.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 12:27:25 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 46

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE	3.15	0.5670	222030	10873
2	CHLORIDE	4.45	1.0305	314260	16618
3	NITRITE	5.23	1.0129	679864	26986
4	BROMIDE	6.58	1.0294	151206	6528
5	NITRATE	7.37	1.0022	816687	32292
6	OrthophosP	9.48	1.1793	292320	7781
7	SULFATE	11.33	2.5648	640570	21238



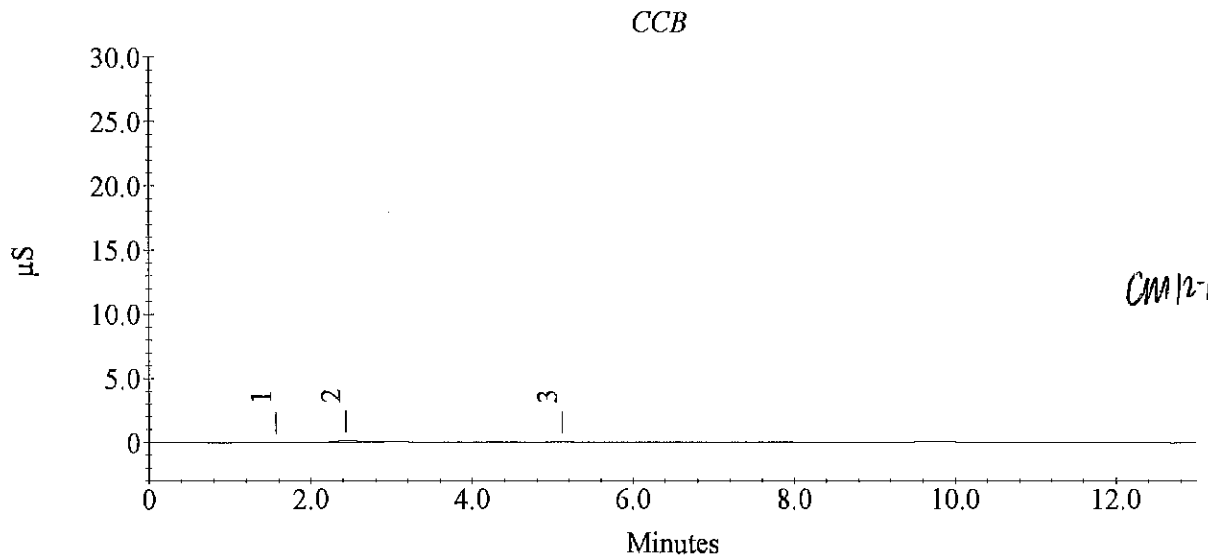
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\peaknet\data\20121214\D6410_047.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 12:42:47 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 47

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE CHLORIDE NITRITE BROMIDE NITRATE OrthophosP SULFATE	5.12	0.1099	4962	126



CM 12-1512

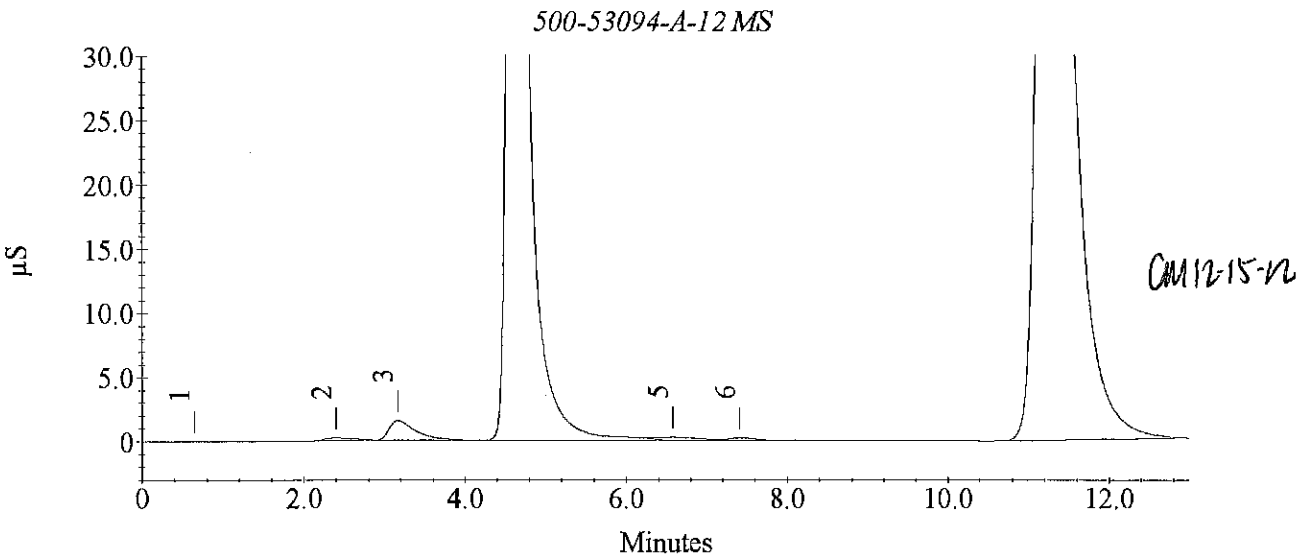
Sample Analysis Report

Sample Name : 500-53094-A-12 MS
Data File Name : c:\peaknet\data\20121214\D6410_048.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 12:58:08 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 48

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.17	0.8401	349756	14945
4	CHLORIDE	4.62	47.5503	16611254	1221645
	NITRITE				
5	BROMIDE	6.58	0.5305	70547	2244
6	NITRATE	7.42	0.1503	49296	1897
	OrthophosP				
7	SULFATE	11.28	87.7920	22305505	819295



CM 12-15-12

Sample Analysis Report

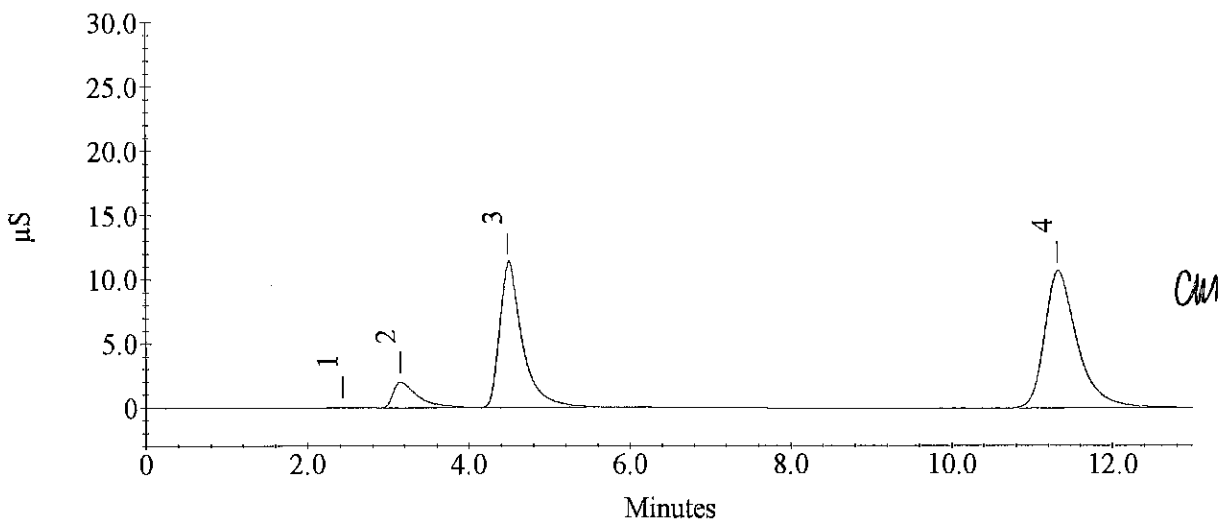
Sample Name : 500-53094-A-12 MS
Data File Name : c:\peaknet\data\20121214\D6410_049.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 1:13:30 AM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 49

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.15	9.9103	420324	19950
3	CHLORIDE	4.48	64.8052	2223535	112358
	NITRITE				
	BROMIDE				
	NITRATE				
	OrthophosP				
4	SULFATE	11.32	119.1006	3016163	106389

500-53094-A-12 MS



CW12-15-12

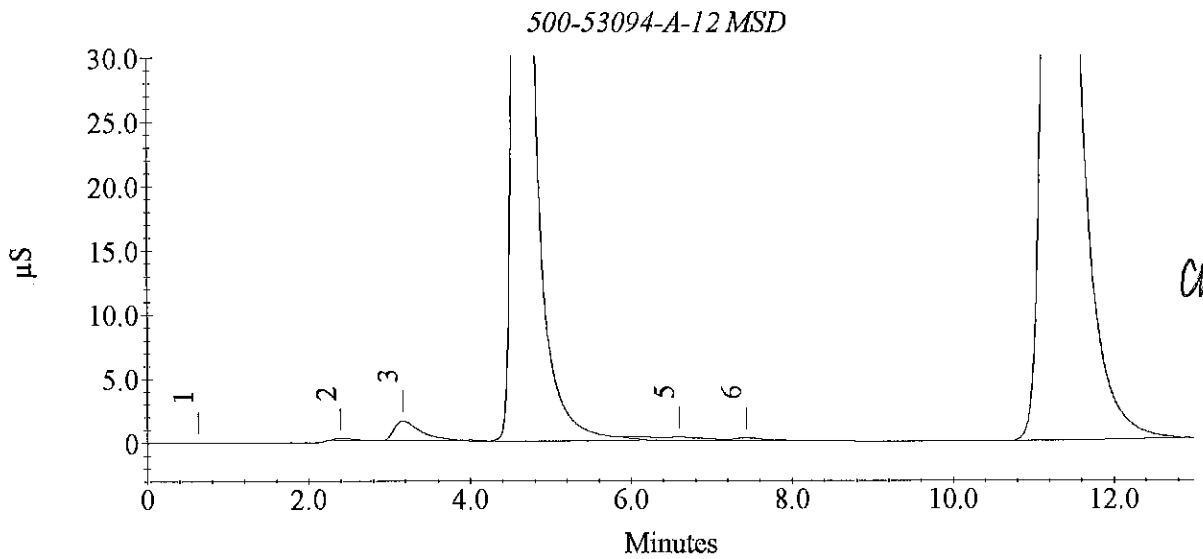
Sample Analysis Report

Sample Name : 500-53094-A-12 MSD
Data File Name : c:\peaknet\data\20121214\D6410_050.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 1:28:52 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 50

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE	3.17	0.8658	361749	15244
4	CHLORIDE	4.63	47.5653	16616509	1230785
	NITRITE				
5	BROMIDE	6.60	0.6727	93537	2847
6	NITRATE	7.43	0.1617	59627	2167
	OrthophosP				
7	SULFATE	11.30	87.7599	22297343	821301



CM12-15-12

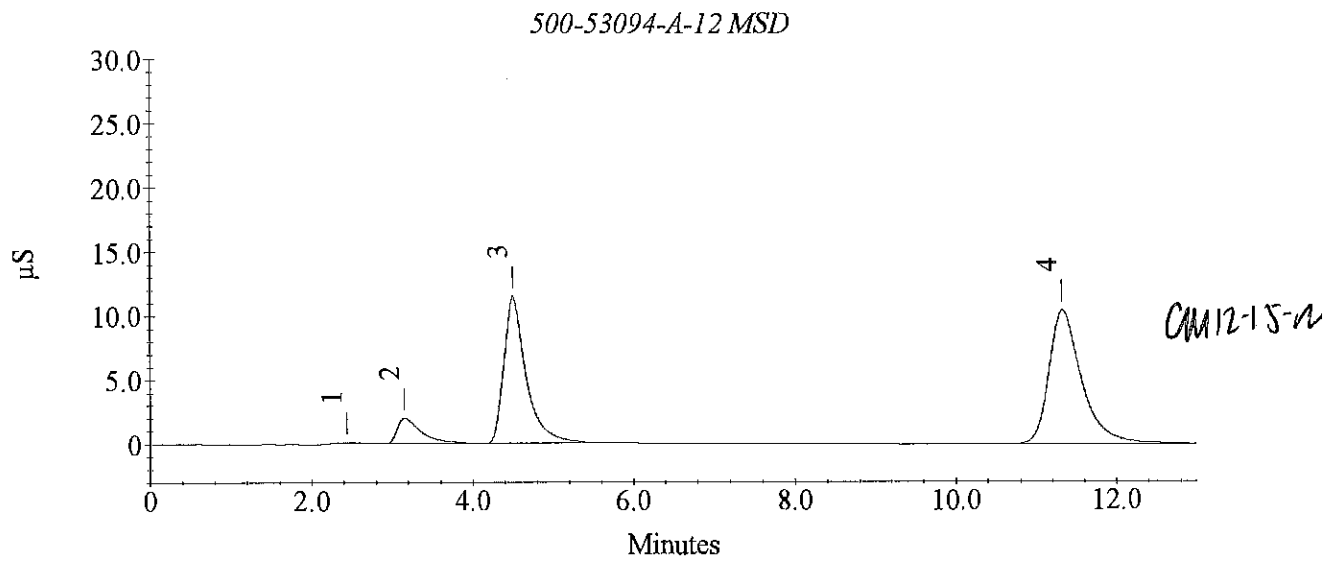
Sample Analysis Report

Sample Name : 500-53094-A-12 MSD
Data File Name : c:\peaknet\data\20121214\D6410_051.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 1:44:13 AM
System Operator : Colleen Moore
Dilution Factor : 10.00
Injection Number : 51

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
2	FLUORIDE	3.15	9.7248	411649	19776
3	CHLORIDE	4.50	64.0061	2195541	114078
	NITRITE				
	BROMIDE				
	NITRATE				
	OrthophosP				
4	SULFATE	11.32	116.5300	2950818	103751



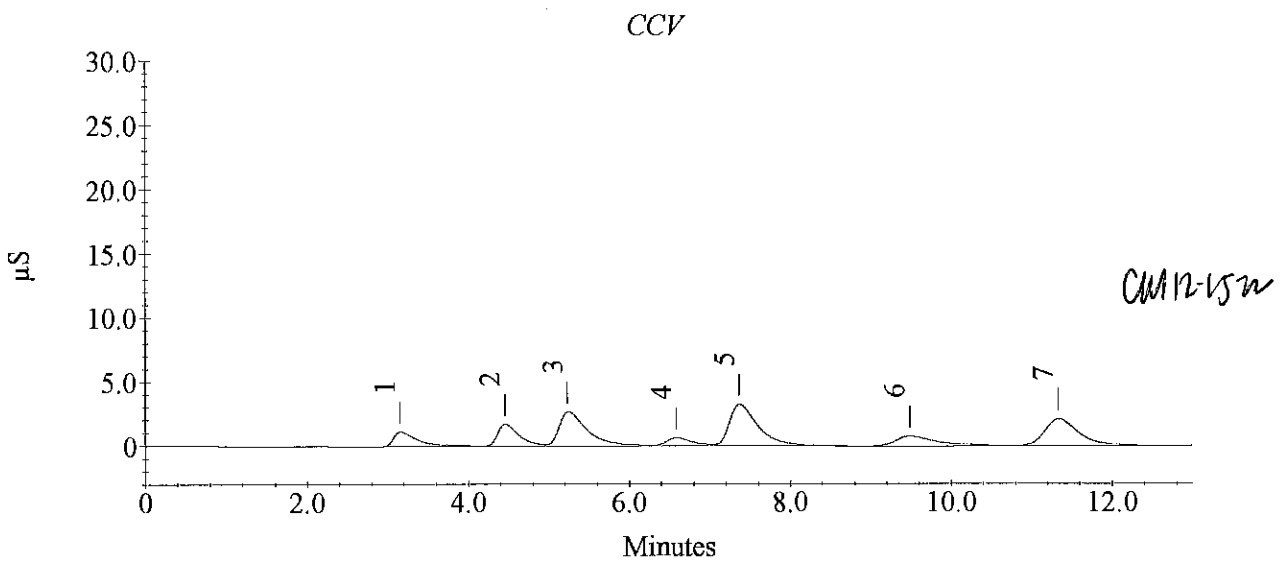
Sample Analysis Report

Sample Name : CCV
Data File Name : c:\peaknet\data\20121214\D6410_052.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 1:59:35 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 52

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE	3.15	0.5659	221518	10909
2	CHLORIDE	4.45	1.0141	308509	16844
3	NITRITE	5.23	0.9821	656890	26567
4	BROMIDE	6.58	0.9622	140340	6262
5	NITRATE	7.37	0.9955	810635	32376
6	OrthophosP	9.48	1.0918	269239	7755
7	SULFATE	11.33	2.4763	618081	20869



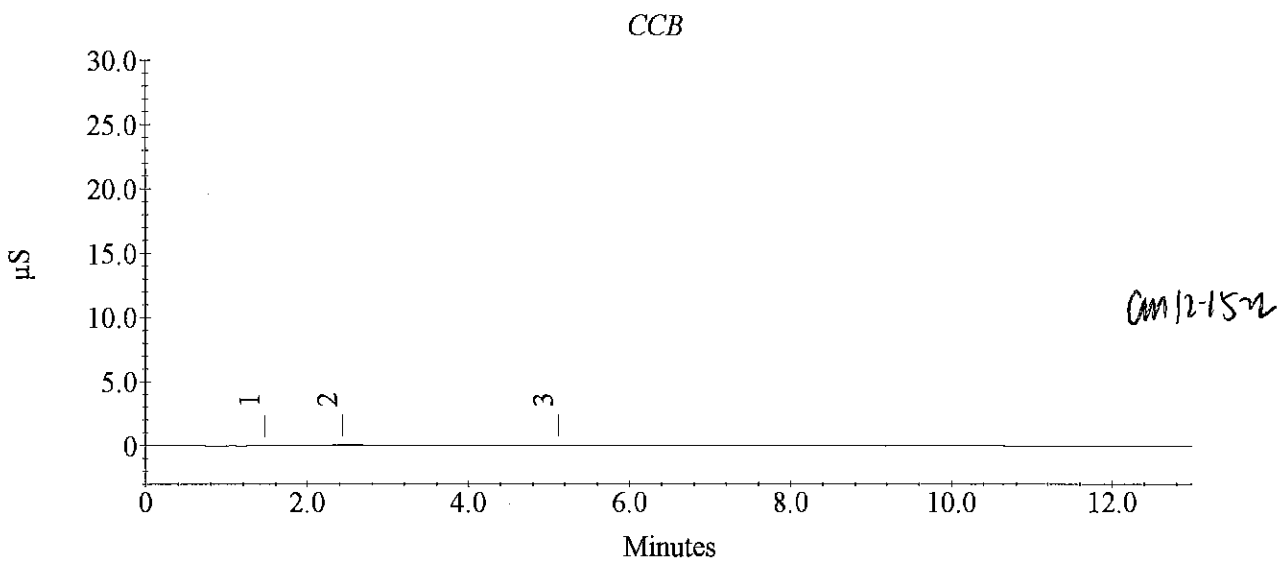
Sample Analysis Report

Sample Name : CCB
Data File Name : c:\peaknet\data\20121214\D6410_053.DXD

Method File Name : c:\peaknet\method\dx-120.met
Date Time Collected : 12/15/12 2:14:56 AM
System Operator : Colleen Moore
Dilution Factor : 1.00
Injection Number : 53

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
3	FLUORIDE CHLORIDE NITRITE BROMIDE NITRATE OrthophosP SULFATE	5.12	0.1095	4700	136



CM 12-15-12

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 | Analyst: Blake, David | Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 | Batch End: 12/11/2012 8:48:00AM

ASTM Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LB3~500-172502/1 N/A	N/A				N/A	N/A	N/A		LB3 500-172502/1-A
2	500-53065-A-1 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
3	500-53065-A-2 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
4	500-53065-A-3 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C

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01/03/2013

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 Analyst: Blake, David Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 Batch End: 12/11/2012 8:48:00AM

4	500-53065-A-3 (9056)	N/A	Solid			12/17/12	6_Days - R	1	500-53065-A-3-C
4	500-53065-A-3 (6020)	N/A	Solid			12/17/12	6_Days - R	1	500-53065-A-3-C
5	500-53065-A-4 (7470A)	N/A	Solid			12/19/12	8_Days - R	1	500-53065-A-4-C
5	500-53065-A-4 (9066)	N/A	Solid			12/19/12	8_Days - R	1	500-53065-A-4-C
5	500-53065-A-4 (353.2)	N/A	Solid			12/19/12	8_Days - R	1	500-53065-A-4-C
5	500-53065-A-4 (6020)	N/A	Solid			12/17/12	6_Days - R	1	500-53065-A-4-C
5	500-53065-A-4 (9056)	N/A	Solid			12/17/12	6_Days - R	1	500-53065-A-4-C
6	500-52882-A-8 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	500-52882-A-8-A
6	500-52882-A-8 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	500-52882-A-8-A
7	500-52882-A-9 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	500-52882-A-9-A
7	500-52882-A-9 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	500-52882-A-9-A

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 | Analyst: Blake, David | Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 | Batch End: 12/11/2012 8:48:00AM

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment T-725

Comments

General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICCL1_00007	WSTICCL2_00007	WSTICF1_00005	WSTICF2_00007	WSTICS1_00006
ICV~500-173084/1		300		100 mL		300 uL		100 uL	
ICB~500-173084/2		300							
MB~500-173084/3		300							
LCS~500-173084/4		300		100 mL		300 uL		100 uL	
500-53234-A-2	VLF-MW-4	300	T						
500-53234-A-1	VLF-MW-3	300	T						
500-53234-A-1	VLF-MW-3	300	T						
500-53234-A-3	OLD-MW-4	300	T						
500-53234-A-4	OLD-MW-9	300	T						
500-53065-A-1-C		9056	Y						
500-53065-A-2-D		9056	Y						
500-53065-A-3-C		9056	Y						
CCV~500-173084/13		300		100 mL	100 uL		60 uL		250 uL
CCB~500-173084/14		300							
500-53065-A-4-C		9056	Y						
500-53065-A-4-C		9056	Y						
500-53065-A-1-C		9056	Y						
500-53094-A-1	FIELD BLANK#1	300	D						
500-53094-A-1	FIELD BLANK#1	300	D						
500-53094-A-2	D-10 29	300	D						
500-53094-A-2	D-10 29	300	D						
500-53094-A-3	D-16R 234	300	D						
500-53094-A-3	D-16R 234	300	D						
500-53094-A-4	D-16R DUP	300	D						
CCV~500-173084/25		300		100 mL	100 uL		60 uL		250 uL

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS2_00005
ICV~500-173084/1		300		500 uL
ICB~500-173084/2		300		
MB~500-173084/3		300		
LCS~500-173084/4		300		500 uL
500-53234-A-2	VLF-MW-4	300	T	
500-53234-A-1	VLF-MW-3	300	T	
500-53234-A-1	VLF-MW-3	300	T	
500-53234-A-3	OLD-MW-4	300	T	
500-53234-A-4	OLD-MW-9	300	T	
500-53065-A-1-C		9056	Y	
500-53065-A-2-D		9056	Y	
500-53065-A-3-C		9056	Y	
CCV~500-173084/13		300		
CCB~500-173084/14		300		
500-53065-A-4-C		9056	Y	
500-53065-A-4-C		9056	Y	
500-53065-A-1-C		9056	Y	
500-53094-A-1	FIELD BLANK#1	300	D	
500-53094-A-1	FIELD BLANK#1	300	D	
500-53094-A-2	D-10 29	300	D	
500-53094-A-2	D-10 29	300	D	
500-53094-A-3	D-16R 234	300	D	
500-53094-A-3	D-16R 234	300	D	
500-53094-A-4	D-16R DUP	300	D	
CCV~500-173084/25		300		

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICCL1_00007	WSTICCL2_00007	WSTICF1_00005	WSTICF2_00007	WSTICS1_00006
CCB~500-173084/26		300							
500-53094-A-4	D-16R DUP	300	D						
500-53094-A-5	MW-2 2	300	D						
500-53094-A-5	MW-2 2	300	D						
500-53094-A-6	MW-5R 49	300	D						
500-53094-A-6	MW-5R 49	300	D						
500-53094-A-7	MW-6A 20	300	D						
500-53094-A-7	MW-6A 20	300	D						
500-53094-A-8	MW-6R 120	300	D						
500-53094-A-8	MW-6R 120	300	D						
500-53094-A-9	FIELD BLANK #2	300	D						
CCV~500-173084/37		300		100 mL	100 uL		60 uL		250 uL
CCB~500-173084/38		300							
500-53094-A-9	FIELD BLANK #2	300	D						
500-53094-A-10	MW-7 7	300	D						
500-53094-A-10	MW-7 7	300	D						
500-53094-A-11	MW-7A 23	300	D						
500-53094-A-11	MW-7A 23	300	D						
500-53094-A-12	MW-8A 89	300	D						
500-53094-A-12	MW-8A 89	300	D						
CCV~500-173084/46		300		100 mL	100 uL		60 uL		250 uL
CCB~500-173084/47		300							
500-53094-A-12~MS		300	D	100 mL		300 uL		100 uL	
500-53094-A-12~MS		300	D	100 mL		300 uL		100 uL	
500-53094-A-12~MSD		300	D	100 mL		300 uL		100 uL	

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS2_00005
CCB~500-173084/26		300		
500-53094-A-4	D-16R DUP	300	D	
500-53094-A-5	MW-2 2	300	D	
500-53094-A-5	MW-2 2	300	D	
500-53094-A-6	MW-5R 49	300	D	
500-53094-A-6	MW-5R 49	300	D	
500-53094-A-7	MW-6A 20	300	D	
500-53094-A-7	MW-6A 20	300	D	
500-53094-A-8	MW-6R 120	300	D	
500-53094-A-8	MW-6R 120	300	D	
500-53094-A-9	FIELD BLANK #2	300	D	
CCV~500-173084/37		300		
CCB~500-173084/38		300		
500-53094-A-9	FIELD BLANK #2	300	D	
500-53094-A-10	MW-7 7	300	D	
500-53094-A-10	MW-7 7	300	D	
500-53094-A-11	MW-7A 23	300	D	
500-53094-A-11	MW-7A 23	300	D	
500-53094-A-12	MW-8A 89	300	D	
500-53094-A-12	MW-8A 89	300	D	
CCV~500-173084/46		300		
CCB~500-173084/47		300		
500-53094-A-12~MS		300	D	500 uL
500-53094-A-12~MS		300	D	500 uL
500-53094-A-12~MSD		300	D	500 uL

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICCL1_00007	WSTICCL2_00007	WSTICF1_00005	WSTICF2_00007	WSTICS1_00006
500-53094-A-12~MSD		300	D	100 mL		300 uL		100 uL	
CCV~500-173084/52		300		100 mL	100 uL		60 uL		250 uL
CCB~500-173084/53		300							

General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS2_00005
500-53094-A-12~MS D		300	D	500 uL
CCV~500-173084/5 2		300		
CCB~500-173084/5 3		300		

Filter Lot #:	ACRODISC21782182-0.45
Balance ID:	NA
Pipette ID:	NA
Eluent 1 Lot:	ELUENTCONC00005
Regeneration Solution Lot:	NA
Ethylenediamine Lot:	NA

General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
ICV~500-173084/1		300		
ICB~500-173084/2		300		
MB~500-173084/3		300		
LCS~500-173084/4		300		
500-53234-A-2	VLF-MW-4	300	T	
500-53234-A-1	VLF-MW-3	300	T	
500-53234-A-1	VLF-MW-3	300	T	
500-53234-A-3	OLD-MW-4	300	T	
500-53234-A-4	OLD-MW-9	300	T	
500-53065-A-1-C		9056	Y	
500-53065-A-2-D		9056	Y	
500-53065-A-3-C		9056	Y	
CCV~500-173084/13		300		
CCB~500-173084/14		300		
500-53065-A-4-C		9056	Y	
500-53065-A-4-C		9056	Y	
500-53065-A-1-C		9056	Y	
500-53094-A-1	FIELD BLANK #1	300	D	
500-53094-A-1	FIELD BLANK #1	300	D	
500-53094-A-2	D-10 29	300	D	
500-53094-A-2	D-10 29	300	D	
500-53094-A-3	D-16R 234	300	D	
500-53094-A-3	D-16R 234	300	D	
500-53094-A-4	D-16R DUP	300	D	
CCV~500-173084/25		300		

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
CCB~500-173084/26		300		
500-53094-A-4	D-16R DUP	300	D	
500-53094-A-5	MW-2 2	300	D	
500-53094-A-5	MW-2 2	300	D	
500-53094-A-6	MW-5R 49	300	D	
500-53094-A-6	MW-5R 49	300	D	
500-53094-A-7	MW-6A 20	300	D	
500-53094-A-7	MW-6A 20	300	D	
500-53094-A-8	MW-6R 120	300	D	
500-53094-A-8	MW-6R 120	300	D	
500-53094-A-9	FIELD BLANK #2	300	D	
CCV~500-173084/37		300		
CCB~500-173084/38		300		
500-53094-A-9	FIELD BLANK #2	300	D	
500-53094-A-10	MW-7 7	300	D	
500-53094-A-10	MW-7 7	300	D	
500-53094-A-11	MW-7A 23	300	D	
500-53094-A-11	MW-7A 23	300	D	
500-53094-A-12	MW-8A 89	300	D	
500-53094-A-12	MW-8A 89	300	D	
CCV~500-173084/46		300		
CCB~500-173084/47		300		
500-53094-A-12~MS		300	D	
500-53094-A-12~MS		300	D	
500-53094-A-12~MSD		300	D	

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General Chemistry Worksheet

Batch Number: 500-173084
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 14 2012 9:24AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-53094-A-12~MS D		300	D	
CCV~500-173084/5 2		300		
CCB~500-173084/5 3		300		

Batch Comment: AG14A-5UM/AS14A-5UM

TestAmerica Chicago

Alkalinity

Analytical Batch # 173256

NCM # _____

Method: SM 2320B

Instrument: PC Titrate

Alkalinity Calculations :

> 20 mg/L alk = tcon x 50,000 x ep1 or ep2a / svol

< 20 mg/L alk = (2 X ep2a - ep2b) X tcon X 50,000 / svol

where:

ep1 = mLs titrant to pH 8.3 (endpoint for Phenolphthalein Alkalinity)
ep2a = mLs Titrant to pH 4.5 (endpoint for Total Alkalinity)
ep2b = total mLs Titrant to lower pH an additional 0.30 units
tcon = Titrant normality
svol = mL sample volume

Alkalinity Relationships :

Result (as CaCO3)	OH Alk.	Carb. Alk.	Bicarb. Alk.
P = 0	0	0	T
P < 1/2 T	0	2P	T - 2P
P = 1/2 T	0	2P	0
P > 1/2 T	2P - T	2(T - P)	0
P = T	T	0	0

Key

P = Phenophthalein Alkalinity (as CaCO3 titr. To pH 8.3)
T = Total Alkalinity (as CaCO3 titr. To pH 4.5)
OH = Hydroxide Alkalinity

Note: All calculations are performed by the PC Titrate Software.
The PC Titrate autosampler draws 20 ml of each buffer, standard, and sample for titration.

Standard Traceability:

ICAL	pH Buffer 4.0	pH4RED-26
ICAL	pH Buffer 7.0	pH7YELLOW-21
CCAL	pH Buffer 7.0	pH7CLEAR-36
	LCS	WCSTALK-6

Spiking Levels:

LCS 100 mg/L

Analyst: Colleen Moore Analysis Date: 12-17/18W

Reviewer: [signature] Date: 12/18/17

CHI-22-12-114/C-11/09

173256

CM 12-18-12

PC-TitratION PLUS
Calibration Report

Calibration Record # 152

Calibration Settings

Calibration ID	PH	Date	12/17/2012
Channel	1	Time	7:24 PM
Probe Type	pH	Temperature	295.22 K 22.07 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-58.815	CorrCoeff	1.0000
Intercept	-16.193	Equation: Y = (-58.815) X + (-16.193)	

Calibration Validity True Operator

	Result	Minimum	Maximum
Slope	-58.815	-65.00	-53.00
Intercept	-16.193	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	160.76
	7.00	-17.21
	10.00	-192.13

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago

Water Analysis Report

172256
CM 12-18-12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Run Number 363 **Order Number** 20121217-1

SampleID	RunDate	RunTime	Temp	pH	pH (mV)	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	EP @ 8.3 (ml)	EP @ 4.5 (ml)	EP @ 4.2 (ml)	F-ppm	F (mV)
PHC-1	12/17/2012	7:37 PM	21.85	7.00	-16.23	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
MB	12/17/2012	7:42 PM	20.62	6.04	41.38	.00	.12	.12	.00	.00	.00	.04	.08	-1.00	-1.00
LCS	12/17/2012	7:47 PM	20.89	11.02	-251.70	95.00	101.87	.00	13.74	88.13	2.37	2.55	-1.00	-1.00	-1.00
500-53094-A-43	12/17/2012	7:53 PM	20.18	7.58	-50.53	.00	391.63	391.63	.00	.00	.00	9.79	-1.00	-1.00	-1.00
500-53174-D-1	12/17/2012	7:59 PM	18.08	7.16	-25.75	.00	248.47	248.47	.00	.00	.00	6.21	-1.00	-1.00	-1.00
500-53174-D-2	12/17/2012	8:04 PM	18.17	7.56	-48.82	.00	391.29	391.29	.00	.00	.00	9.78	-1.00	-1.00	-1.00
500-53174-D-3	12/17/2012	8:12 PM	18.25	7.26	-31.49	.00	840.52	840.52	.00	.00	.00	21.01	-1.00	-1.00	-1.00
500-53174-D-4	12/17/2012	8:19 PM	18.91	7.44	-41.99	.00	645.28	645.28	.00	.00	.00	16.13	-1.00	-1.00	-1.00
500-53174-D-5	12/17/2012	8:25 PM	19.32	7.37	-37.71	.00	581.93	581.93	.00	.00	.00	14.55	-1.00	-1.00	-1.00
500-53174-D-6	12/17/2012	8:32 PM	18.48	7.99	-73.73	.00	429.85	429.85	.00	.00	.00	10.75	-1.00	-1.00	-1.00
500-53174-D-7	12/17/2012	8:38 PM	18.20	7.23	-29.78	.00	507.85	507.85	.00	.00	.00	12.70	-1.00	-1.00	-1.00
PHC-2	12/17/2012	8:52 PM	19.26	7.15	-24.78	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53174-D-8	12/17/2012	9:00 PM	19.54	7.32	-35.03	.00	1,098.18	1,098.18	.00	.00	.00	27.45	-1.00	-1.00	-1.00
500-53174-D-9	12/17/2012	9:05 PM	20.74	8.04	-77.02	.00	87.30	87.30	.00	.00	.00	2.18	-1.00	-1.00	-1.00
500-53151-I-1	12/17/2012	9:11 PM	20.74	7.70	-57.25	.00	149.16	149.16	.00	.00	.00	3.73	-1.00	-1.00	-1.00
500-53151-I-2	12/17/2012	9:16 PM	19.94	7.90	-68.60	.00	100.87	100.87	.00	.00	.00	2.52	-1.00	-1.00	-1.00
500-53151-I-3	12/17/2012	9:21 PM	19.56	7.79	-62.37	.00	209.59	209.59	.00	.00	.00	5.24	-1.00	-1.00	-1.00
500-53151-I-4	12/17/2012	9:27 PM	19.01	7.01	-16.72	.00	307.61	307.61	.00	.00	.00	7.69	-1.00	-1.00	-1.00
500-53151-I-5	12/17/2012	9:32 PM	19.03	7.63	-53.22	.00	148.08	148.08	.00	.00	.00	3.70	-1.00	-1.00	-1.00
500-53152-I-1	12/17/2012	9:38 PM	19.68	7.99	-73.85	.00	217.06	217.06	.00	.00	.00	5.43	-1.00	-1.00	-1.00
500-53190-G-1	12/17/2012	9:43 PM	20.60	7.48	-44.67	.00	306.84	306.84	.00	.00	.00	7.67	-1.00	-1.00	-1.00
500-53190-G-1 DU	12/17/2012	9:49 PM	20.51	7.38	-38.81	.00	313.34	313.34	.00	.00	.00	7.83	-1.00	-1.00	-1.00
PHC-3	12/17/2012	10:02 PM	19.93	7.09	-21.72	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53190-G-2	12/17/2012	10:08 PM	19.84	7.38	-38.81	.00	306.87	306.87	.00	.00	.00	7.67	-1.00	-1.00	-1.00
500-53190-G-3	12/17/2012	10:14 PM	19.63	7.51	-46.02	.00	315.46	315.46	.00	.00	.00	7.89	-1.00	-1.00	-1.00
500-53190-G-5	12/17/2012	10:19 PM	20.12	7.68	-56.15	.00	306.83	306.83	.00	.00	.00	7.67	-1.00	-1.00	-1.00

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173256 (continued)

CM12-1811

Run Number 363 **Order Number** 20121217-1

SampleID	RunDate	RunTime	Temp	pH	pH (mV)	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	EP @ 8.3 (ml)	EP @ 4.5 (ml)	EP @ 4.2 (ml)	F-ppm	F (mV)
MB-2	12/17/2012	10:24 PM	20.58	5.85	51.02	.00	.06	.06	.00	.00	.00	.09	.18	-1.00	-1.00
LCS-2	12/17/2012	10:30 PM	21.18	10.93	-246.21	95.71	104.36	.00	17.30	87.06	2.39	2.61	-1.00	-1.00	-1.00
500-53190-G-8	12/17/2012	10:35 PM	21.57	7.49	-44.92	.00	325.55	325.55	.00	.00	.00	8.14	-1.00	-1.00	-1.00
500-53190-G-9	12/17/2012	10:42 PM	20.73	7.49	-45.28	.00	334.13	334.13	.00	.00	.00	8.35	-1.00	-1.00	-1.00
500-53190-G-11	12/17/2012	10:47 PM	20.18	7.33	-35.76	.00	382.26	382.26	.00	.00	.00	9.56	-1.00	-1.00	-1.00
500-53190-G-12	12/17/2012	10:52 PM	20.29	7.43	-41.74	.00	282.36	282.36	.00	.00	.00	7.06	-1.00	-1.00	-1.00
500-53190-G-13	12/17/2012	10:58 PM	20.41	7.59	-51.02	.00	300.72	300.72	.00	.00	.00	7.52	-1.00	-1.00	-1.00
PHC-4	12/17/2012	11:12 PM	20.55	7.07	-20.01	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53190-G-14	12/17/2012	11:18 PM	21.58	7.75	-60.18	.00	369.69	369.69	.00	.00	.00	9.24	-1.00	-1.00	-1.00
500-53190-G-15	12/17/2012	11:23 PM	21.27	8.02	-76.41	.00	157.43	157.43	.00	.00	.00	3.94	-1.00	-1.00	-1.00
500-53194-I-1	12/17/2012	11:30 PM	20.92	7.64	-53.71	.00	583.47	583.47	.00	.00	.00	14.59	-1.00	-1.00	-1.00
500-53316-E-21	12/17/2012	11:36 PM	21.09	7.51	-46.02	.00	388.07	388.07	.00	.00	.00	9.70	-1.00	-1.00	-1.00
500-53316-E-22	12/17/2012	11:42 PM	20.74	8.23	-88.13	.00	386.63	386.63	.00	.00	.00	9.67	-1.00	-1.00	-1.00
500-53164-I-1	12/17/2012	11:48 PM	20.85	7.57	-49.80	.00	414.26	414.26	.00	.00	.00	10.36	-1.00	-1.00	-1.00
500-53164-I-2	12/17/2012	11:54 PM	21.47	7.91	-69.70	.00	410.10	410.10	.00	.00	.00	10.25	-1.00	-1.00	-1.00
500-53164-I-3	12/17/2012	11:59 PM	21.56	8.21	-87.40	.00	351.41	351.41	.00	.00	.00	8.79	-1.00	-1.00	-1.00
500-53164-I-3 DU	12/18/2012	12:06 AM	21.85	8.19	-85.93	.00	354.89	354.89	.00	.00	.00	8.87	-1.00	-1.00	-1.00
500-53164-I-4	12/18/2012	12:11 AM	21.86	7.84	-65.55	.00	397.31	397.31	.00	.00	.00	9.93	-1.00	-1.00	-1.00
PHC-5	12/18/2012	12:25 AM	21.58	7.05	-19.16	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53164-I-5	12/18/2012	12:31 AM	21.80	7.91	-69.58	.00	154.80	154.80	.00	.00	.00	3.87	-1.00	-1.00	-1.00
500-53234-I-1	12/18/2012	12:37 AM	21.67	9.47	-161.13	30.22	60.20	.00	59.96	.24	.76	1.50	-1.00	-1.00	-1.00
500-53234-I-2	12/18/2012	12:41 AM	21.44	9.15	-142.33	36.86	120.41	46.69	73.72	.00	.92	3.01	-1.00	-1.00	-1.00
500-53234-I-3	12/18/2012	12:47 AM	21.87	7.95	-72.38	.00	286.89	286.89	.00	.00	.00	7.17	-1.00	-1.00	-1.00
500-53234-I-4	12/18/2012	12:54 AM	22.49	8.08	-79.71	.00	652.81	652.81	.00	.00	.00	16.32	-1.00	-1.00	-1.00
PHC-6	12/18/2012	12:58 AM	21.85	4.08	155.76	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00

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PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	pHmV	stbT	Temp
PHC-1	6.997	-16.230	92.696	21.845
MB	6.041	41.380	92.696	20.619
LCS	11.023	-251.700	92.695	20.895
500-53094-A-43	7.584	-50.530	92.696	20.177
500-53174-D-1	7.161	-25.750	92.805	18.077
500-53174-D-2	7.560	-48.820	92.696	18.165
500-53174-D-3	7.261	-31.490	92.696	18.253
500-53174-D-4	7.441	-41.990	92.696	18.906
500-53174-D-5	7.365	-37.710	92.696	19.324
500-53174-D-6	7.990	-73.730	92.727	18.479
500-53174-D-7	7.230	-29.780	92.696	18.203
PHC-2	7.149	-24.780	92.695	19.258
500-53174-D-8	7.323	-35.030	92.696	19.535
500-53174-D-9	8.037	-77.020	93.007	20.743
500-53151-I-1	7.699	-57.250	92.712	20.743
500-53151-I-2	7.898	-68.600	92.696	19.945
500-53151-I-3	7.790	-62.370	92.695	19.562
500-53151-I-4	7.007	-16.720	92.695	19.007
500-53151-I-5	7.632	-53.220	92.696	19.033
500-53152-I-1	7.986	-73.850	92.694	19.681
500-53190-G-1	7.483	-44.670	92.695	20.605
500-53190-G-1 DU	7.385	-38.810	92.694	20.508
PHC-3	7.095	-21.720	92.696	19.931
500-53190-G-2	7.383	-38.810	92.713	19.839
500-53190-G-3	7.509	-46.020	92.695	19.628
500-53190-G-5	7.682	-56.150	92.695	20.122
MB-2	5.853	51.020	92.696	20.577
LCS-2	10.925	-246.210	92.696	21.179
500-53190-G-8	7.487	-44.920	92.695	21.570
500-53190-G-9	7.495	-45.280	92.696	20.729
500-53190-G-11	7.333	-35.760	92.696	20.177
500-53190-G-12	7.435	-41.740	92.759	20.287
500-53190-G-13	7.593	-51.020	92.899	20.412
PHC-4	7.065	-20.010	92.696	20.550
500-53190-G-14	7.749	-60.180	92.695	21.585
500-53190-G-15	8.023	-76.410	92.696	21.266
500-53194-I-1	7.636	-53.710	92.696	20.922
500-53316-E-21	7.507	-46.020	92.758	21.092
500-53316-E-22	8.229	-88.130	92.837	20.743
500-53164-I-1	7.572	-49.800	92.742	20.853
500-53164-I-2	7.910	-69.700	92.695	21.469
500-53164-I-3	8.211	-87.400	92.697	21.556
500-53164-I-3 DU	8.189	-85.930	92.695	21.845
500-53164-I-4	7.838	-65.550	92.695	21.860
PHC-5	7.051	-19.160	92.914	21.585
500-53164-I-5	7.906	-69.580	92.697	21.802

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PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	pHmV	stbT	Temp
500-53234-I-1	9.470	-161.130	91.684	21.672
500-53234-I-2	9.151	-142.330	48.705	21.440
500-53234-I-3	7.952	-72.380	92.695	21.874
500-53234-I-4	8.078	-79.710	92.695	22.492
PHC-6	4.076	155.760	92.695	21.845

Date: 12/18/2012

173256
CM 12-18-N

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	ep1	ep2	svol	tcon	talk	palk
PHC-1	0.000	0.000	25.000	0.020	0.000	0.000
MB	0.000	0.039	25.000	0.020	1.560	0.000
LCS	2.375	2.547	25.000	0.020	101.868	95.000
500-53094-A-43	0.000	9.791	25.000	0.020	391.626	0.000
500-53174-D-1	0.000	6.212	25.000	0.020	248.469	0.000
500-53174-D-2	0.000	9.782	25.000	0.020	391.291	0.000
500-53174-D-3	0.000	21.013	25.000	0.020	840.516	0.000
500-53174-D-4	0.000	16.132	25.000	0.020	645.283	0.000
500-53174-D-5	0.000	14.548	25.000	0.020	581.929	0.000
500-53174-D-6	0.000	10.746	25.000	0.020	429.848	0.000
500-53174-D-7	0.000	12.696	25.000	0.020	507.847	0.000
PHC-2	0.000	0.000	25.000	0.020	0.000	0.000
500-53174-D-8	0.000	27.455	25.000	0.020	1098.183	0.000
500-53174-D-9	0.000	2.182	25.000	0.020	87.299	0.000
500-53151-I-1	0.000	3.729	25.000	0.020	149.162	0.000
500-53151-I-2	0.000	2.522	25.000	0.020	100.866	0.000
500-53151-I-3	0.000	5.240	25.000	0.020	209.592	0.000
500-53151-I-4	0.000	7.690	25.000	0.020	307.609	0.000
500-53151-I-5	0.000	3.702	25.000	0.020	148.077	0.000
500-53152-I-1	0.000	5.427	25.000	0.020	217.061	0.000
500-53190-G-1	0.000	7.671	25.000	0.020	306.840	0.000
500-53190-G-1 DU	0.000	7.833	25.000	0.020	313.335	0.000
PHC-3	0.000	0.000	25.000	0.020	0.000	0.000
500-53190-G-2	0.000	7.672	25.000	0.020	306.874	0.000
500-53190-G-3	0.000	7.887	25.000	0.020	315.463	0.000
500-53190-G-5	0.000	7.671	25.000	0.020	306.831	0.000
MB-2	0.000	0.092	25.000	0.020	3.697	0.000
LCS-2	2.393	2.609	25.000	0.020	104.357	95.708
500-53190-G-8	0.000	8.139	25.000	0.020	325.551	0.000
500-53190-G-9	0.000	8.353	25.000	0.020	334.127	0.000
500-53190-G-11	0.000	9.556	25.000	0.020	382.258	0.000
500-53190-G-12	0.000	7.059	25.000	0.020	282.362	0.000
500-53190-G-13	0.000	7.518	25.000	0.020	300.717	0.000
PHC-4	0.000	0.000	25.000	0.020	0.000	0.000
500-53190-G-14	0.000	9.242	25.000	0.020	369.693	0.000
500-53190-G-15	0.000	3.936	25.000	0.020	157.426	0.000
500-53194-I-1	0.000	14.587	25.000	0.020	583.469	0.000
500-53316-E-21	0.000	9.702	25.000	0.020	388.072	0.000
500-53316-E-22	0.000	9.666	25.000	0.020	386.629	0.000
500-53164-I-1	0.000	10.357	25.000	0.020	414.263	0.000
500-53164-I-2	0.000	10.253	25.000	0.020	410.103	0.000
500-53164-I-3	0.000	8.785	25.000	0.020	351.405	0.000
500-53164-I-3 DU	0.000	8.872	25.000	0.020	354.890	0.000
500-53164-I-4	0.000	9.933	25.000	0.020	397.315	0.000
PHC-5	0.000	0.000	25.000	0.020	0.000	0.000
500-53164-I-5	0.000	3.870	25.000	0.020	154.799	0.000

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PC-Titrate For Windows V3

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Exported Equation Results

Sample ID	ep1	ep2	svol	tcon	talk	palk
500-53234-I-1	0.755	1.505	25.000	0.020	60.199	30.217
500-53234-I-2	0.921	3.010	25.000	0.020	120.410	36.860
500-53234-I-3	0.000	7.172	25.000	0.020	286.895	0.000
500-53234-I-4	0.000	16.320	25.000	0.020	652.806	0.000
PHC-6	0.000	0.000	25.000	0.020	0.000	0.000

Date: 12/18/2012

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CM 12-18-12

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	ep1	ep2a	ep2b	svol	tcon	palk	talk
PHC-1	0.000	0.000	0.000	25.000	0.020	0.000	0.000
MB	0.000	0.039	0.075	25.000	0.020	0.000	0.119
PHC-2	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-3	0.000	0.000	0.000	25.000	0.020	0.000	0.000
MB-2	0.000	0.092	0.183	25.000	0.020	0.000	0.061
PHC-4	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-5	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-6	0.000	0.000	0.000	25.000	0.020	0.000	0.000

Date: 12/18/2012

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CM 12-18-12

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	palk	talk	bcarb	carb	hydrx	flrd	Temp	ep1	ep2a	ep2b	FmV	mV
PHC-1	6.997	0.000	0.000	0.000	0.000	0.000	-1.000	21.845	0.000	0.000	0.000	-1.000	-16.230
MB	6.041	0.000	0.119	0.119	0.000	0.000	-1.000	20.619	0.000	0.039	0.075	-1.000	41.380
LCS	11.023	95.000	101.868	0.000	13.736	88.132	-1.000	20.895	2.375	2.547	-1.000	-1.000	-251.700
500-53094-A-43	7.584	0.000	391.626	391.626	0.000	0.000	-1.000	20.177	0.000	9.791	-1.000	-1.000	-50.530
500-53174-D-1	7.161	0.000	248.469	248.469	0.000	0.000	-1.000	18.077	0.000	6.212	-1.000	-1.000	-25.750
500-53174-D-2	7.560	0.000	391.291	391.291	0.000	0.000	-1.000	18.165	0.000	9.782	-1.000	-1.000	-48.820
500-53174-D-3	7.261	0.000	840.516	840.516	0.000	0.000	-1.000	18.253	0.000	21.013	-1.000	-1.000	-31.490
500-53174-D-4	7.441	0.000	645.283	645.283	0.000	0.000	-1.000	18.906	0.000	16.132	-1.000	-1.000	-41.990
500-53174-D-5	7.365	0.000	581.929	581.929	0.000	0.000	-1.000	19.324	0.000	14.548	-1.000	-1.000	-37.710
500-53174-D-6	7.990	0.000	429.848	429.848	0.000	0.000	-1.000	18.479	0.000	10.746	-1.000	-1.000	-73.730
500-53174-D-7	7.230	0.000	507.847	507.847	0.000	0.000	-1.000	18.203	0.000	12.696	-1.000	-1.000	-29.780
PHC-2	7.149	0.000	0.000	0.000	0.000	0.000	-1.000	19.258	0.000	0.000	0.000	-1.000	-24.780
500-53174-D-8	7.323	0.000	1098.183	1098.183	0.000	0.000	-1.000	19.535	0.000	27.455	-1.000	-1.000	-35.030
500-53174-D-9	8.037	0.000	87.299	87.299	0.000	0.000	-1.000	20.743	0.000	2.182	-1.000	-1.000	-77.020
500-53151-I-1	7.699	0.000	149.162	149.162	0.000	0.000	-1.000	20.743	0.000	3.729	-1.000	-1.000	-57.250
500-53151-I-2	7.898	0.000	100.866	100.866	0.000	0.000	-1.000	19.945	0.000	2.522	-1.000	-1.000	-68.600
500-53151-I-3	7.790	0.000	209.592	209.592	0.000	0.000	-1.000	19.562	0.000	5.240	-1.000	-1.000	-62.370
500-53151-I-4	7.007	0.000	307.609	307.609	0.000	0.000	-1.000	19.007	0.000	7.690	-1.000	-1.000	-16.720
500-53151-I-5	7.632	0.000	148.077	148.077	0.000	0.000	-1.000	19.033	0.000	3.702	-1.000	-1.000	-53.220
500-53152-I-1	7.986	0.000	217.061	217.061	0.000	0.000	-1.000	19.681	0.000	5.427	-1.000	-1.000	-73.850
500-53190-G-1	7.483	0.000	306.840	306.840	0.000	0.000	-1.000	20.605	0.000	7.671	-1.000	-1.000	-44.670
500-53190-G-1 DU	7.385	0.000	313.335	313.335	0.000	0.000	-1.000	20.508	0.000	7.833	-1.000	-1.000	-38.810
PHC-3	7.095	0.000	0.000	0.000	0.000	0.000	-1.000	19.931	0.000	0.000	0.000	-1.000	-21.720
500-53190-G-2	7.383	0.000	306.874	306.874	0.000	0.000	-1.000	19.839	0.000	7.672	-1.000	-1.000	-38.810
500-53190-G-3	7.509	0.000	315.463	315.463	0.000	0.000	-1.000	19.628	0.000	7.887	-1.000	-1.000	-46.020
500-53190-G-5	7.682	0.000	306.831	306.831	0.000	0.000	-1.000	20.122	0.000	7.671	-1.000	-1.000	-56.150
MB-2	5.853	0.000	0.061	0.061	0.000	0.000	-1.000	20.577	0.000	0.092	0.183	-1.000	51.020
LCS-2	10.925	95.708	104.357	0.000	17.298	87.059	-1.000	21.179	2.393	2.609	-1.000	-1.000	-246.210
500-53190-G-8	7.487	0.000	325.551	325.551	0.000	0.000	-1.000	21.570	0.000	8.139	-1.000	-1.000	-44.920
500-53190-G-9	7.495	0.000	334.127	334.127	0.000	0.000	-1.000	20.729	0.000	8.353	-1.000	-1.000	-45.280
500-53190-G-11	7.333	0.000	382.258	382.258	0.000	0.000	-1.000	20.177	0.000	9.556	-1.000	-1.000	-35.760
500-53190-G-12	7.435	0.000	282.362	282.362	0.000	0.000	-1.000	20.287	0.000	7.059	-1.000	-1.000	-41.740
500-53190-G-13	7.593	0.000	300.717	300.717	0.000	0.000	-1.000	20.412	0.000	7.518	-1.000	-1.000	-51.020
PHC-4	7.065	0.000	0.000	0.000	0.000	0.000	-1.000	20.550	0.000	0.000	0.000	-1.000	-20.010
500-53190-G-14	7.749	0.000	369.693	369.693	0.000	0.000	-1.000	21.585	0.000	9.242	-1.000	-1.000	-60.180
500-53190-G-15	8.023	0.000	157.426	157.426	0.000	0.000	-1.000	21.266	0.000	3.936	-1.000	-1.000	-76.410
500-53194-I-1	7.636	0.000	583.469	583.469	0.000	0.000	-1.000	20.922	0.000	14.587	-1.000	-1.000	-53.710
500-53316-E-21	7.507	0.000	388.072	388.072	0.000	0.000	-1.000	21.092	0.000	9.702	-1.000	-1.000	-46.020
500-53316-E-22	8.229	0.000	386.629	386.629	0.000	0.000	-1.000	20.743	0.000	9.666	-1.000	-1.000	-88.130
500-53164-I-1	7.572	0.000	414.263	414.263	0.000	0.000	-1.000	20.853	0.000	10.357	-1.000	-1.000	-49.800
500-53164-I-2	7.910	0.000	410.103	410.103	0.000	0.000	-1.000	21.469	0.000	10.253	-1.000	-1.000	-69.700
500-53164-I-3	8.211	0.000	351.405	351.405	0.000	0.000	-1.000	21.556	0.000	8.785	-1.000	-1.000	-87.400
500-53164-I-3 DU	8.189	0.000	354.890	354.890	0.000	0.000	-1.000	21.845	0.000	8.872	-1.000	-1.000	-85.930
500-53164-I-4	7.838	0.000	397.315	397.315	0.000	0.000	-1.000	21.860	0.000	9.933	-1.000	-1.000	-65.550
PHC-5	7.051	0.000	0.000	0.000	0.000	0.000	-1.000	21.585	0.000	0.000	0.000	-1.000	-19.160
500-53164-I-5	7.906	0.000	154.799	154.799	0.000	0.000	-1.000	21.802	0.000	3.870	-1.000	-1.000	-69.580

Date: 12/18/2012

173256 (continued)

CM 12-18-12

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	palk	talk	bcarb	carb	hydrx	flrd	Temp	ep1	ep2a	ep2b	FmV	mV
500-53234-I-1	9.470	30.217	60.199	0.000	59.963	0.236	-1.000	21.672	0.755	1.505	-1.000	-1.000	-161.130
500-53234-I-2	9.151	36.860	120.410	46.691	73.719	0.000	-1.000	21.440	0.921	3.010	-1.000	-1.000	-142.330
500-53234-I-3	7.952	0.000	286.895	286.895	0.000	0.000	-1.000	21.874	0.000	7.172	-1.000	-1.000	-72.380
500-53234-I-4	8.078	0.000	652.806	652.806	0.000	0.000	-1.000	22.492	0.000	16.320	-1.000	-1.000	-79.710
PHC-6	4.076	0.000	0.000	0.000	0.000	0.000	-1.000	21.845	0.000	0.000	0.000	-1.000	155.760

Date: 12/18/2012

General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
PHC~500-173256/1					InitialAmount is blank		
MB~500-173256/2		2320B			InitialAmount is blank		
LCS~500-173256/3		2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL
500-53094-A-43	MW-30 109	2320B	D		InitialAmount is blank		
500-53174-D-1	W-1 (101)	2320B	D		InitialAmount is blank		
500-53174-D-2	W-2 (102)	2320B	D		InitialAmount is blank		
500-53174-D-3	W-3 (103)	2320B	D		InitialAmount is blank		
500-53174-D-4	W-4 (104)	2320B	D		InitialAmount is blank		
500-53174-D-5	W-4A (105)	2320B	D		InitialAmount is blank		
500-53174-D-6	W-5 (106)	2320B	D		InitialAmount is blank		
500-53174-D-7	W-6 (108)	2320B	D		InitialAmount is blank		
PHC~500-173256/12					InitialAmount is blank		
500-53174-D-8	W-7R (111)	2320B	D		InitialAmount is blank		
500-53174-D-9	W-12 (114)	2320B	D		InitialAmount is blank		
500-53151-I-1	MW-15	2320B	T		InitialAmount is blank		
500-53151-I-2	MW-9S	2320B	T		InitialAmount is blank		
500-53151-I-3	MW-14S	2320B	T		InitialAmount is blank		
500-53151-I-4	MW-4i	2320B	T		InitialAmount is blank		
500-53151-I-5	MW-4S	2320B	T		InitialAmount is blank		
500-53152-I-1	MW-17i	2320B	T		InitialAmount is blank		
500-53190-G-1	MW-7 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-1~DU		2320B	T		InitialAmount is blank		
PHC~500-173256/23					InitialAmount is blank		
500-53190-G-2	DUP-1	2320B	T		InitialAmount is blank		
500-53190-G-3	MW-9 12-11-12	2320B	T		InitialAmount is blank		

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01/03/2013

General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
500-53190-G-5	MW-8 12-11-12	2320B	T		InitialAmount is blank		
					InitialAmount is blank		
MB~500-173256/28		2320B			InitialAmount is blank		
LCS~500-173256/29		2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL
500-53190-G-8	MW-11 12-12-12	2320B	T		InitialAmount is blank		
500-53190-G-9	MW-11B 12-12-12	2320B	T		InitialAmount is blank		
500-53190-G-11	MW-6 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-12	MW-5 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-13	MW-1 12-11-12	2320B	T		InitialAmount is blank		
PHC~500-173256/35					InitialAmount is blank		
500-53190-G-14	MW-2 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-15	MW-3 12-12-12	2320B	T		InitialAmount is blank		
500-53194-I-1	MW-12	2320B	T		InitialAmount is blank		
500-53316-E-21	RO-ASW-IN	2320B	T		InitialAmount is blank		
500-53316-E-22	RO-ASW-EFF	2320B	T		InitialAmount is blank		
500-53164-I-1	VLF-MW-6	2320B	T		InitialAmount is blank		
500-53164-I-2	VLF-MW-6A	2320B	T		InitialAmount is blank		
500-53164-I-3	VLF-MW-7	2320B	T		InitialAmount is blank		
500-53164-I-3~DU		2320B	T		InitialAmount is blank		
500-53164-I-4	VLF-MW-5	2320B	T		InitialAmount is blank		
PHC~500-173256/46					InitialAmount is blank		
500-53164-I-5	VLF-MW-2	2320B	T		InitialAmount is blank		
500-53234-I-1	VLF-MW-3	2320B	T		InitialAmount is blank		
500-53234-I-2	VLF-MW-4	2320B	T		InitialAmount is blank		
500-53234-I-3	OLD-MW-4	2320B	T		InitialAmount is blank		

General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
500-53234-I-4	OLD-MW-9	2320B	T		InitialAmount is blank		
PHC~500-173256/52					InitialAmount is blank		

First Start time:	See Raw Data
First End time:	See Raw Data
Nominal Amount Used:	50 mL
Normality of first Titrant:	0.02 N
Lot # of hydrochloric acid:	0.02N H2SO4_00004
HCl Vendor:	JT Baker
Sulfuric Acid Lot Number:	NA
Sulfuric Acid Vendor:	Purchased
pH Buffer 1 ID:	pH4RED_00026
pH Buffer 2 ID:	pH7YELLOW_00021
pH Buffer 3 ID:	pH7BLUE_00016
pH Buffer 4 ID:	pH7CLEAR_00036
pH Buffer 5 ID:	NA
pH Buffer 6 ID:	NA
Probe ID:	VWR Symphony
Pipette ID:	NA

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01/03/2013

TestAmerica Chicago

Total Organic/Inorganic Carbon

Method:

EPA 415.1 ✓
EPA 415.1, mod. for IC _____
SW846 9060 _____ 9060A _____
SM5310C-00 _____

Analytical Batch #: 173377
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 11/20/12

Calculations:
Waters: mg/L = mg/L X dilution

Standards Traceability:
Stock I: Calibration and Curve; CCV: WCSTTC1-00058

Stock II: LCS, ICV, Matrix spikes MRL, DLCK WCSTTC2-00072

Stock II: TIC sparger check WSTTIC2-00041

Spiking Levels:

		ICAL Standards mg/L	Stock I Spike Amount uLs	DI Amount mL
LCS	10 mg/L	0	0	200
ICV	20 mg/L	1.0	100	200
CCV	20 mg/L	5.0	500	200
CCV (alt.)	10 mg/L	10	1000	Dilute to 200 mL
MS/MSD	10 mg/L	15	1500	"
TIC check	10 mg/L	20	2000	"
MRL	___ mg/L	30	3000	"
DLCK	___ mg/L	40	4000	"

Comments:

Analyst: Khoa [illegible] Date of analysis: 12/18/12

Reviewer: Mary Burg Date: 12.19.12

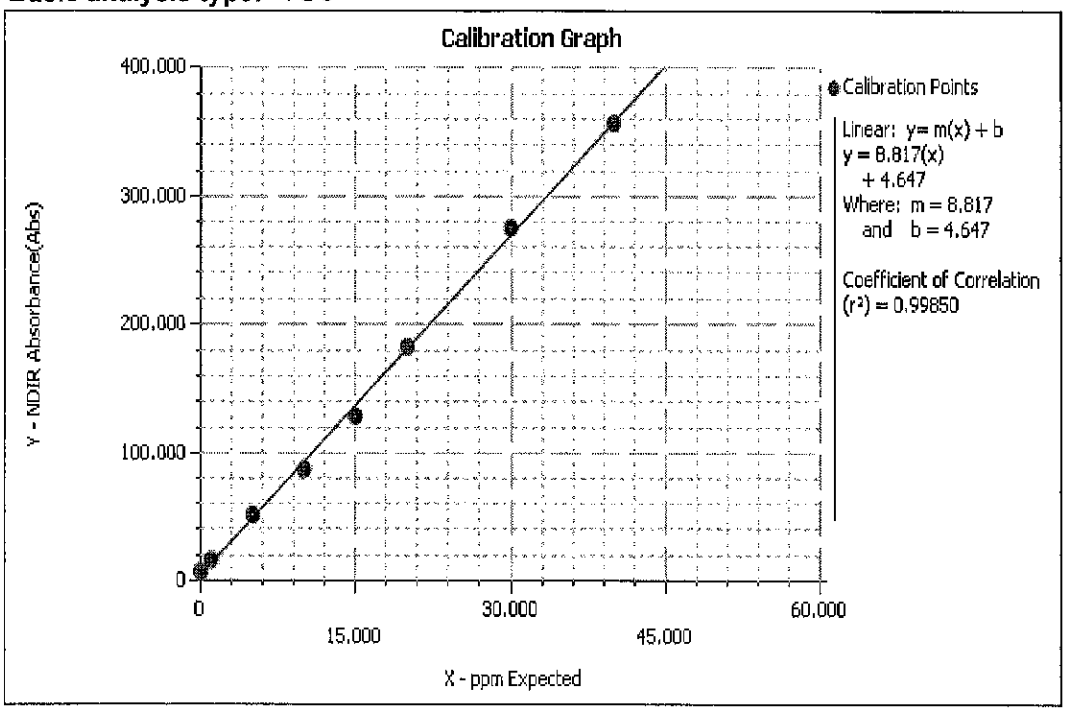
CHI-22-12-105/H-11/12

Name: 112012A TOC CAL

17 3377

Analysis Type: TOC
Version: 2
Instrument: TOC Fusion #1
Last Saved by: Khonta Deb (kd)
Last Saved on: 2012/11/20 09:50 - Tuesday

Basic analysis type: TOC



Data Points

Sample ID	Y Raw Value	X Expected	Message	End Time
0.000 ppm	7.2160	0.0000		2012/11/20 08:40
1.000 ppm	16.3470	1.0000		2012/11/20 08:50
5.000 ppm	51.2260	5.0000		2012/11/20 09:00
10.000 ppm	86.7900	10.0000		2012/11/20 09:10
15.000 ppm	128.4490	15.0000		2012/11/20 09:20
20.000 ppm	182.5300	20.0000		2012/11/20 09:30
30.000 ppm	274.9840	30.0000		2012/11/20 09:39
40.000 ppm	356.4550	40.0000		2012/11/20 09:49

Fusion Report - 121812A TOC
Tuesday, December 18, 2012 03:41 PM

(View - Reps, Unused Reps, Meta-Data, Signature, History)
Printed on 2012/12/19 06:43 - Wednesday

Report Summary Information

Company Location:			
Schedule Name:	121812A TOC	Engine Version:	1.1.0.189
Instrument Name:	TOC Fusion #1	Firmware Version:	1.2.0696
Report Version:	1 of 1	Connection:	RS232 COM1
Report Creation by Operators (schedule version):	Khona Deb (kd) (v1)		
Comment:	173377		

Report Results

Sample Type: Sample — From Schedule Version 1

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	1	TOC	TIC-STD	0.0000 ppm	0.0000 ppm	0.0000%	2012/12/18 15:42

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	0.0000	0.0000	6.79	0.11	-6.69	49.63	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	2	TOC	ICV	19.0312 ppm	0.0000 ppm	0.0000%	2012/12/18 15:52

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	19.0312	76.1246	177.40	170.90	-6.51	49.86	05:54

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	3	TOC	ICB	0.0000 ppm	0.0000 ppm	0.0000%	2012/12/18 16:01

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time

1	TOC	0.0000	0.0000	8.46	2.46	-6.00	49.43	05:54

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	4	TOC	MB	0.0000 ppm	0.0000 ppm	0.0000%	2012/12/18 16:11

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	0.0000	0.0000	6.94	0.58	-6.36	49.45	05:57
2	TOC	0.0000	0.0000	6.84	0.42	-6.42	49.56	05:58

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	5	TOC	LCS	9.2500 ppm	0.0383 ppm	0.4100%	2012/12/18 16:28

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	9.2771	37.1084	91.40	85.05	-6.36	49.44	05:55
2	TOC	9.2229	36.8915	90.92	85.80	-5.12	49.64	05:54

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	6	TOC	720-46264-D-1	12.5958 ppm	0.6060 ppm	4.8100%	2012/12/18 16:44

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	12.1673	48.6691	116.88	111.00	-5.89	49.75	05:54
2	TOC	13.0243	52.0971	124.44	122.13	-2.31	49.77	05:59

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	7	TOC	720-46264-D-1 MS	19.3095 ppm	0.0000 ppm	0.0000%	2012/12/18 17:00

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	19.3095	77.2380	179.86	173.74	-6.12	49.70	05:56

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis	Sample ID	Result (ppmC)	Std. Dev.	RSD	Start Time

		Type			(ppmC)		
◈	7	TOC	720-46264-D-1 MSD	19.2382 ppm	0.0000 ppm	0.0000%	2012/12/18 17:10

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	19.2382	76.9526	179.23	173.24	-5.99	49.71	05:56

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	8	TOC	720-46264-C-2	5.1408 ppm	0.5544 ppm	10.7800%	2012/12/18 17:20

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	4.7488	18.9951	51.48	45.78	-5.70	49.72	05:57
2	TOC	5.5328	22.1314	58.39	55.01	-3.38	49.77	05:58

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	9	TOC	720-46264-D-3	5.3353 ppm	0.4628 ppm	8.6700%	2012/12/18 17:36

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	5.0081	20.0322	53.76	47.62	-6.14	49.77	05:54
2	TOC	5.6626	22.6504	59.54	56.52	-3.02	49.66	05:56

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	10	TOC	500-53234-D-1	29.8318 ppm	2.1922 ppm	7.3500%	2012/12/18 17:52

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	28.2816	113.1265	258.96	252.85	-6.11	49.84	05:56
2	TOC	31.3819	125.5275	286.29	293.89	7.60	49.94	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	11	TOC	500-53234-D-2	42.3890 ppm	1.2910 ppm	3.0500%	2012/12/18 18:09

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	41.4761	165.9044	375.29	370.31	-4.98	49.70	05:58

over range
KD 12/19/12

KD 12/19/12

2	TOC	43.3018	173.2073	391.39	388.81	-2.58	49.77	05:56

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	12	TOC	500-53234-D-3	3.8053 ppm	0.0911 ppm	2.3900%	2012/12/18 18:25

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	3.8698	15.4790	43.73	37.97	-5.76	49.54	05:58
2	TOC	3.7409	14.9637	42.59	36.80	-5.79	49.57	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	13	TOC	500-53234-D-4	2.0674 ppm	0.3264 ppm	15.7900%	2012/12/18 18:41

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	2.2982	9.1928	29.87	23.74	-6.14	49.83	05:57
2	TOC	1.8366	7.3463	25.80	19.68	-6.12	49.88	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	14	TOC	CCV	9.6225 ppm	0.0000 ppm	0.0000%	2012/12/18 18:58

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	9.6225	38.4898	94.45	88.27	-6.17	49.70	05:59

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	15	TOC	CCB	0.0515 ppm	0.0000 ppm	0.0000%	2012/12/18 19:08

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	0.0515	0.2058	10.06	4.05	-6.02	49.53	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
	16	TOC	720-46720-E-~~2~~ 1	5.6234 ppm	0.0274 ppm	0.4900%	2012/12/18 19:18

KD 12/19/12

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	5.6040	22.4159	59.02	52.77	-6.25	49.81	05:56
2	TOC	5.6428	22.5710	59.36	54.14	-5.22	49.70	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	17	TOC	720-46711-E-1 1/5	4.6247 ppm	0.0205 ppm	0.4400%	2012/12/18 19:34

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	4.6103	18.4411	50.26	44.18	-6.07	49.68	05:56
2	TOC	4.6392	18.5568	50.51	44.36	-6.15	49.76	05:56

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	18	TOC	720-46717-F-1 1/5	59.6131 ppm	0.8912 ppm	1.4900%	2012/12/18 19:50

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	58.9829	235.9316	529.65	523.44	-6.21	49.49	05:59
2	TOC	60.2432	240.9730	540.76	539.75	-1.01	49.68	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

KD over range KD 12/19/12

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	19	TOC	CCV	10.0455 ppm	0.0000 ppm	0.0000%	2012/12/18 20:07

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	10.0455	40.1821	98.18	92.23	-5.95	49.62	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

	Pos	Analysis Type	Sample ID	Result (ppmC)	Std. Dev. (ppmC)	RSD	Start Time
◈	20	TOC	CCB	0.0000 ppm	0.0000 ppm	0.0000%	2012/12/18 20:17

Rep #	Base Analysis Type	ppm	µg	Adjusted (Abs)	NDIR (Abs)	Baseline (Abs)	Pressure (psig)	Run Time
1	TOC	0.0000	0.0000	8.26	2.58	-5.68	49.62	05:57

Dilution	Blank Contribution	Method	Calibration
1:3	9.6093 (v6)	TOC 1-40ppm (v39)	112012A TOC CAL (v2)

Meta Data Used in this Report

Blanks

Version	Reagent (Abs)	Acid (Abs)	DI IC (Abs)	DI TC (Abs)	DI TOC (Abs)	Save Time	Operator
v6	9.6090	3.3370	0.0000	0.0000	0.0000	2012/08/21 16:33	Khona Deb (kd)

Calibrations

Name: 112012A TOC CAL (TOC)

Version: v2

Ver Creation: 2012/11/20 09:50

Comment:

Operator: Khona Deb (kd)

Basic Analysis Type: TOC

Calibration curve formula: TOC: y = 8.817x + 4.647

r^2 value: TOC: r^2 = 0.99850

Basic Analysis Type: TOC

Sample ID	Y Raw Value	X Expected	Message	End Time
0.000 ppm	7.2160	0.0000		2012/11/20 08:40
1.000 ppm	16.3470	1.0000		2012/11/20 08:50
5.000 ppm	51.2260	5.0000		2012/11/20 09:00
10.000 ppm	86.7900	10.0000		2012/11/20 09:10
15.000 ppm	128.4490	15.0000		2012/11/20 09:20
20.000 ppm	182.5300	20.0000		2012/11/20 09:30
30.000 ppm	274.9840	30.0000		2012/11/20 09:39
40.000 ppm	356.4550	40.0000		2012/11/20 09:49

Methods

Name: TOC 1-40ppm (TOC)

Version: v39

Ver Creation: 2012/11/20 08:30

Comment: This method is designed to use the Non-Purgeable Organic Carbon (NPOC) method for TOC analysis on waste water type samples.

Operator: Khona Deb (kd)

Parameter	Value	Advanced Parameter	Value

SampleVolume	4.0 mL
Dilution	1:3
AcidVolume	1.0 ml
ReagentVolume	1.0 ml
UVReactorPrerinse	On
UVReactorPrerinseVolume	5.0
NumberOfUVReactorPrerinses	1
ICSpargeTime	1.00 mins
DetectorSweepFlow	500 ml/min
PreSpargeTime	1.00 mins
SystemFlow	200 ml/min

NeedleRinseVolume	5.0 ml
VialPrimeVolume	2.0 ml
ICSamplePrimeVolume	2.0 ml
ICSpargeRinseVolume	5.0 ml
BaselineStabilizeTime	0.70 min
DetectorPressureFlow	200 ml/min
SyringeSpeedWaste	10
SyringeSpeedAcid	7
SyringeSpeedReagent	7
SyringeSpeedDIWater	7
NDIRPressurization	50 psig
SyringeSpeedSampleDispense	7
SyringeSpeedSampleAspirate	4
SyringeSpeedUVDispense	7
SyringeSpeedUVAspirate	5
SyringeSpeedICDispense	7
SyringeSpeedICAspirate	5
NDIRPressureStabilize	0.50 min
SampleMixing	Off
SampleMixingCycles	1
SampleMixingVolume	10.0
LowLevelFilterNDIR	Off

Acceptance / Approval

Electronic Signatures

Report Version	User Name	Acceptance	Reason	Date

Report History

Report History

Report Version	User Name	System Reason	User Reason	Date
1	Khona Deb (kd)	Schedule completed	Schedule completed	2012/12/18 20:27

General Chemistry Worksheet

Batch Number: 500-173377
Method: SM 5310C
Analyst: Deb, Khona

Date Open: Dec 18 2012 3:52PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WCSTTC1_00058	WCSTTC2_00072
ICV~500-173377/1		9060		200 mL	200 mL		2000 uL
ICB~500-173377/2		9060					
MB~500-173377/3		9060					
LCS~500-173377/4		9060		200 mL	200 mL		1000 uL
720-46264-D-1	1	9060	T				
720-46264-D-1~MS		9060	T	50 mL	50 mL		200 uL
720-46264-D-1~MSD		9060	T	50 mL	50 mL		200 uL
720-46264-C-2	2	9060	T				
720-46264-D-3	3	9060	T				
500-53234-D-1	VLF-MW-3	5310C	T				
500-53234-D-3	OLD-MW-4	5310C	T				
500-53234-D-4	OLD-MW-9	5310C	T				
CCV~500-173377/13		5310C		200 mL	200 mL	1 mL	
CCB~500-173377/14		5310C					
720-46720-E-1	0114301X	5310C	T				
720-46711-E-1	STORMDRAIN	5310C	T				
CCV~500-173377/17		5310C		200 mL	200 mL	1 mL	
CCB~500-173377/18		5310C					

First Start time:	N/A
First End time:	N/A
Lot # of Phosphoric Acid:	21% H3PO4 00015
Sodium Persulfate Reagent ID Number:	Na Persulfate 00022
Pipette ID:	N/A

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01/03/2013

TestAmerica Chicago

Total Organic/Inorganic Carbon

Method:

EPA 415.1 ✓
EPA 415.1, mod. for IC _____
SW846 9060 _____ 9060A _____
SM5310C-00 _____

Analytical Batch #: 173493
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 11/20/12

Calculations:
Waters: mg/L = mg/L X dilution

Standards Traceability:
Stock I: Calibration and Curve; CCV: WCSTTC1-00058

Stock II: LCS, ICV, Matrix spikes MRL, DLCK WCSTTC2-00072

Stock II: TIC sparger check WSTTIC2-00041

Spiking Levels:

		ICAL Standards mg/L	Stock I Spike Amount uLs	DI Amount mL
LCS	10 mg/L	0	0	200
ICV	20 mg/L	1.0	100	200
CCV	20 mg/L	5.0	500	200
CCV (alt.)	10 mg/L	10	1000	Dilute to 200 mL
MS/MSD	10 mg/L	15	1500	"
TIC check	10 mg/L	20	2000	"
MRL	___ mg/L	30	3000	"
DLCK	___ mg/L	40	4000	"

Comments:

Analyst: Rhonda [illegible] Date of analysis: 12/19/12

Reviewer: [illegible] Date: 12/19/12

CHI-22-12-105/H-11/12

Multiple Analysis Report Print Date/Time: 2012/12/19 16:11:54

Sample ID	Result	Std. Dev.	RSD	Mode	ALT	Method ID	Sample Type	Vial	Timestamp	Message
TIC-STD	0.2329			TOC		TOC Range 0.1 - 20 p	Sample	1	12/19/2012 08:26	
ICV	19.2220			TOC		TOC Range 0.1 - 20 p	Sample	2	12/19/2012 08:42	
ICB	-0.0064			TOC		TOC Range 0.1 - 20 p	Sample	3	12/19/2012 08:52	
MB	-0.0601	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 4	12/19/2012 09:02.	
MB	-0.0716			TOC		TOC Range 0.1 - 20 p	Sample	4	12/19/2012 09:12	
LCS	9.3316			TOC		TOC Range 0.1 - 20 p	Sample	5	12/19/2012 09:25	
LCS	9.5090	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 5	12/19/2012 09:39.	
500-53117-e-8 1/5	16.5463			TOC		TOC Range 0.1 - 20 p	Sample	6	12/19/2012 09:54	
500-53117-e-8 1/5	16.6632			TOC		TOC Range 0.1 - 20 p	Sample	6	12/19/2012 10:09	
500-53151-e-4 1/5	20.9772	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 7	12/19/2012 10:24.	
500-53151-e-4 1/5	21.0581			TOC		TOC Range 0.1 - 20 p	Sample	7	12/19/2012 10:40	
720-46717-F-1 1/10	27.1657			TOC		TOC Range 0.1 - 20 p	Sample	8	12/19/2012 10:56	Max Integration → Time Reached
720-46717-F-1 1/10	27.5480	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 8	12/19/2012 11:12.	Max Integration → Time Reached
500-53234-e-2 1/2	17.3252			TOC		TOC Range 0.1 - 20 p	Sample	9	12/19/2012 11:27	
500-53234-e-2 1/2	17.8327			TOC		TOC Range 0.1 - 20 p	Sample	9	12/19/2012 11:43	
500-53248-A-2 1/5	0.8622	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 10	12/19/2012 12:00.	Max Integration → Time Reached
500-53248-A-2 1/5	0.6007			TOC		TOC Range 0.1 - 20 p	Sample	10	12/19/2012 12:16	Max Integration → Time Reached
500-53248-A-4 1/5	0.7273			TOC		TOC Range 0.1 - 20 p	Sample	11	12/19/2012 12:32	Max Integration → Time Reached
500-53248-A-4 1/5	0.6342	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 11	12/19/2012 12:48.	Max Integration → Time Reached
500-53248-A-7 1/5	0.8324			TOC		TOC Range 0.1 - 20 p	Sample	12	12/19/2012 13:00	
500-53248-A-7 1/5	0.7674			TOC		TOC Range 0.1 - 20 p	Sample	12	12/19/2012 13:11	
500-53347-A-11	4.1496	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 13	12/19/2012 13:27.	Max Integration → Time Reached
500-53347-A-11	4.1884			TOC		TOC Range 0.1 - 20 p	Sample	13	12/19/2012 13:43	Max Integration → Time Reached
CCV	9.3849			TOC		TOC Range 0.1 - 20 p	Sample	14	12/19/2012 13:58	
CCB	0.0648	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 15	12/19/2012 14:08.	
500-53347A-11 MS	14.4127			TOC		TOC Range 0.1 - 20 p	Sample	16	12/19/2012 14:24	Max Integration → Time Reached
500-53347A-11 MSD	14.4168			TOC		TOC Range 0.1 - 20 p	Sample	16	12/19/2012 14:40	Max Integration → Time Reached
500-53347A-12 1/5	2.5585	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 17	12/19/2012 14:56.	Max Integration → Time Reached
500-53347A-12 1/5	2.2588			TOC		TOC Range 0.1 - 20 p	Sample	17	12/19/2012 15:13	Max Integration → Time Reached
500-53347A-15 1/5	0.5367			TOC		TOC Range 0.1 - 20 p	Sample	18	12/19/2012 15:29	Max Integration → Time Reached
500-53347A-15 1/5	0.4487	..		TOC	..	TOC Range 0.1 - 20 p	Sample	.. 18	12/19/2012 15:45.	Max Integration → Time Reached
CCV	9.3730			TOC		TOC Range 0.1 - 20 p	Sample	19	12/19/2012 15:58	
CCB	0.0778			TOC		TOC Range 0.1 - 20 p	Sample	20	12/19/2012 16:09	

Detailed Analysis Report Print Date/Time: 2012/12/19 16:11:54

Sample ID: TIC-STD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 08:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2329	0.9317	1653061	1.259	2.259	425

Sample ID: ICV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 08:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19.2220	76.8880	62219408	1.223	2.221	598

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 08:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0064	-0.0254	889814	1.198	2.198	238

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 09:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0601	-0.2404	718387	1.084	2.084	233

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 09:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0716	-0.2862	681870	1.124	2.123	227

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 09:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3316	37.3263	30673502	1.071	2.068	463

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 09:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.5090	38.0361	31239488	1.142	2.142	452

Sample ID: 500-53117-e-8 1/5 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 09:54
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16.5463	66.1853	53685288	1.134	2.133	527

Sample ID: 500-53117-e-8 1/5 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 10:09
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16.6632	66.6527	54057924	1.209	2.207	511

Sample ID: 500-53151-e-4 1/5 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 10:24
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.9772	83.9089	67817816	1.114	2.112	564

Sample ID: 500-53151-e-4 1/5 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 10:40
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21.0581	84.2324	68075776	1.136	2.134	554

Sample ID: 720-46717-F-1 1/10 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 10:56
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27.1657	108.6629	87556272	0.994	2.280	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 720-46717-F-1 1/10 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 11:12
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27.5480	110.1919	88775480	1.008	2.250	600

Last Message: Max Integration Time Reached

Sample ID: 500-53234-e-2 1/2 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 12190813
Cal. Curve: TOCCURVE Timestamp: 12/19/2012 11:27
Operator ID: KHONA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	17.3252	69.3007	56169448	0.962	1.961	576

Sample ID: 500-53234-e-2 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 11:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17.8327	71.3306	57788072	1.002	2.002	585

S KD 12/19/12

Sample ID: 500-53258-A-2 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 12:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8622	3.4487	3660036	0.980	3.262	600

Last Message: Max Integration Time Reached AD KD 12/19/12

53258 & 53347 are purple permanganate samples analyzed with dilutions KD 12/19/12

S KD 12/19/12

Sample ID: 500-53258-A-2 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 12:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6007	2.4030	2826194	0.922	2.863	600

Last Message: Max Integration Time Reached

S KD 12/19/12

Sample ID: 500-53258-A-4 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 12:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7273	2.9093	3229917	0.888	2.707	600

Last Message: Max Integration Time Reached AD KD 12/19/12

S KD 12/19/12

Sample ID: 500-53258-A-4 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 12:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6342	2.5368	2932940	0.837	2.339	600

Last Message: Max Integration Time Reached

S KD 12/19/12

Sample ID: 500-53258-A-7 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 13:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8324	3.3296	3565101	0.812	1.810	339

Sample ID: 500-53248-A-7 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 13:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7674	3.0695	3357692	0.802	1.800	319

Sample ID: 500-53347-A-11
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 13:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.1496	16.5982	14145280	0.828	4.553	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53347-A-11
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 13:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.1884	16.7535	14269060	0.857	4.060	600

Last Message: Max Integration Time Reached

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 13:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3849	37.5398	30843760	0.800	1.799	496

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 14:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0648	0.2590	1116640	1.006	2.006	248

Sample ID: 500-53347A-11 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 14:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.4127	57.6509	46880080	0.912	4.929	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53347A-11 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 14:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.4168	57.6672	46893072	0.947	5.345	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53347A-12 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 14:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.5585	10.2342	9070671	0.905	8.090	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53347A-12 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 15:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2588	9.0354	8114773	1.634	9.009	600

Last Message: Max Integration Time Reached

Sample ID: 500-53347A-15 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 15:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5367	2.1466	2621783	1.716	3.927	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53347A-15 1/5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 15:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4487	1.7947	2341147	1.197	3.337	600

Last Message: Max Integration Time Reached

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 15:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3730	37.4921	30805714	1.189	2.188	448

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12190813
Timestamp: 12/19/2012 16:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	0.0778	0.3113	1158340	1.348	2.347	240

Calibration Report Print Date/Time: 2012/12/19 16:12:00

Cal. Curve ID: TOCCURVE
Created: 12/05/2012 06:36
Calibration Factor (m): 7.974e+05
Y Intercept (b): 2493467
r-squared: 0.99534

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0	6978916	0.000	5.625	Max Integrati	11/20/2012 13:44
1	6445084	4.000	4.956		11/20/2012 13:56
5	18033688	20.000	19.489		11/20/2012 14:09
10	31141898	40.000	35.928		11/20/2012 14:24
15	45973256	60.000	54.528		11/20/2012 14:38
20	66865056	80.000	80.728		11/20/2012 14:54
40	132264488	160.000	162.746	Max Integrati	11/20/2012 15:26

General Chemistry Worksheet

Batch Number: 500-173493
Method: SM 5310C
Analyst: Deb, Khona

Date Open: Dec 19 2012 8:42AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WCSTTC1_00058	WCSTTC2_00072
ICV~500-173493/1		5310C		200 mL	200 mL		2000 uL
ICB~500-173493/2		5310C					
MB~500-173493/3		5310C					
LCS~500-173493/4		5310C		200 mL	200 mL		1000 uL
500-53117-E-8	MW-24ps	5310C	T				
500-53151-E-4	MW-4i	5310C	T				
720-46717-F-1	STORM WATER EVENT #3	5310C	T				
500-53234-E-2	VLF-MW-4	5310C	T				
500-53258-A-2	MW-20D	9060	T				
500-53258-A-4	MW-21D	9060	T				
500-53258-A-7	MW-19D	9060	T				
500-53347-A-11	MW-18S	9060	T				
CCV~500-173493/13		9060		200 mL	200 mL	1 mL	
CCB~500-173493/14		9060					
500-53347-A-11~MS		9060	T	40 mL	40 mL		200 uL
500-53347-A-11~MSD		9060	T	40 mL	40 mL		200 uL
500-53347-A-12	MW-3S	9060	T				
500-53347-A-15	MW-20D2	9060	T				
CCV~500-173493/19				200 mL	200 mL	1 mL	
CCB~500-173493/20							

First Start time:	N/A
First End time:	N/A
Lot # of Phosphoric Acid:	21% H3PO4 00015
Sodium Persulfate Reagent ID Number:	Na Persulfate 00022
Pipette ID:	N/A

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01/03/2013

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173019 Batch Start Date: 12/13/12 09:37 Batch Analyst: Moore, Colleen L

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WSTICBR1 00005	WSTICBR2 00004	WSTICCL1 00007	WSTICCL2 00007	WSTICN031 00005
ICV 500-173019/1		300.0		100 mL		200 uL		300 uL	
CCV 500-173019/28		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/40		300.0		100 mL	100 uL		100 uL		100 uL
LCS 500-173019/45		300.0		100 mL		200 uL		300 uL	
CCV 500-173019/52		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/64		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/76		300.0		100 mL	100 uL		100 uL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICNI1 00004	WSTICNO2II 00002	WSTICNO32 00008	WSTICS1 00006	WSTICS2 00005	
ICV 500-173019/1		300.0			200 uL	200 uL		500 uL	
CCV 500-173019/28		300.0		100 uL			250 uL		
CCV 500-173019/40		300.0		100 uL			250 uL		
LCS 500-173019/45		300.0			200 uL	200 uL		500 uL	
CCV 500-173019/52		300.0		100 uL			250 uL		
CCV 500-173019/64		300.0		100 uL			250 uL		
CCV 500-173019/76		300.0		100 uL			250 uL		

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 Lot	ELUENTCONC00005
Filter Lot #	ACRODISC21782182-0.45

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173084 Batch Start Date: 12/14/12 09:24 Batch Analyst: Moore, Colleen L

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTICCL1 00007	WSTICCL2 00007	WSTICF1 00005	WSTICF2 00007
ICV 500-173084/1		300.0		1.000000000	100 mL		300 uL		100 uL
ICB 500-173084/2		300.0		1.000000000					
MB 500-173084/3		300.0		1.000000000					
LCS 500-173084/4		300.0		1.000000000	100 mL		300 uL		100 uL
500-53234-A-2	VLF-MW-4	300.0	T	1.000000000					
500-53234-A-1	VLF-MW-3	300.0	T	1.000000000					
500-53234-A-1	VLF-MW-3	300.0	T	1.000000000					
500-53234-A-3	OLD-MW-4	300.0	T	1.000000000					
500-53234-A-4	OLD-MW-9	300.0	T	1.000000000					
CCV 500-173084/13		300.0		1.000000000	100 mL	100 uL		60 uL	
CCB 500-173084/14		300.0		1.000000000					

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICS1 00006	WSTICS2 00005				
ICV 500-173084/1		300.0			500 uL				
ICB 500-173084/2		300.0							
MB 500-173084/3		300.0							
LCS 500-173084/4		300.0			500 uL				
500-53234-A-2	VLF-MW-4	300.0	T						
500-53234-A-1	VLF-MW-3	300.0	T						
500-53234-A-1	VLF-MW-3	300.0	T						
500-53234-A-3	OLD-MW-4	300.0	T						
500-53234-A-4	OLD-MW-9	300.0	T						
CCV 500-173084/13		300.0		250 uL					
CCB 500-173084/14		300.0							

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173084 Batch Start Date: 12/14/12 09:24 Batch Analyst: Moore, Colleen L

Batch Method: 300.0 Batch End Date:

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 Lot	ELUENTCONC00005
Filter Lot #	ACRODISC21782182-0.45

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173256 Batch Start Date: 12/17/12 19:37 Batch Analyst: Moore, Colleen L

Batch Method: SM 2320B Batch End Date: 12/18/12 12:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WCSTAK 00006		
MB 500-173256/28		SM 2320B			InitialAmount is blank				
LCS 500-173256/29		SM 2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL		
500-53234-I-1	VLF-MW-3	SM 2320B	T		InitialAmount is blank				
500-53234-I-2	VLF-MW-4	SM 2320B	T		InitialAmount is blank				
500-53234-I-3	OLD-MW-4	SM 2320B	T		InitialAmount is blank				
500-53234-I-4	OLD-MW-9	SM 2320B	T		InitialAmount is blank				

Batch Notes	
pH Buffer 1 ID	pH4RED_00026
pH Buffer 2 ID	pH7YELLOW_00021
pH Buffer 3 ID	pH7BLUE_00016
pH Buffer 4 ID	pH7CLEAR_00036
First End time	See Raw Data
Sulfuric Acid Vendor	Purchased
Lot # of hydrochloric acid	0.02N H2SO4_00004
HCl Vendor	JT Baker
Nominal Amount Used	50 mL
Probe ID	VWR Symphony
First Start time	See Raw Data
Normality of first Titrant	0.02 N

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173377 Batch Start Date: 12/18/12 15:52 Batch Analyst: Deb, Khona

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCSTTC1 00058	WCSTTC2 00072		
ICV 500-173377/1		SM 5310C		200 mL	200 mL		2000 uL		
LCS 500-173377/4		SM 5310C		200 mL	200 mL		1000 uL		
CCV 500-173377/13		SM 5310C		200 mL	200 mL	1 mL			

Batch Notes	
Lot # of Phosphoric Acid	21% H3PO4 00015
Sodium Persulfate Reagent ID Number	Na Persulfate 00022

Basis	Basis Description

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53234-1

SDG No.:

Batch Number: 173493 Batch Start Date: 12/19/12 08:42 Batch Analyst: Deb, Khona

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCSTTC1 00058	WCSTTC2 00072		
ICV 500-173493/1		SM 5310C		200 mL	200 mL		2000 uL		
LCS 500-173493/4		SM 5310C		200 mL	200 mL		1000 uL		
CCV 500-173493/13		SM 5310C		200 mL	200 mL	1 mL			

Batch Notes	
Lot # of Phosphoric Acid	21% H3PO4 00015
Sodium Persulfate Reagent ID Number	Na Persulfate 00022

Basis	Basis Description

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-53234

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler: 3.2

Report To (optional)
Contact: Jessica Lepore
Company: OTIE
Address: 100 W Monroe St
Address: Suite 300
Phone: (312) 220-7000 ext 26
Fax:
E-Mail: jlepore@otie.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: OTIE
Client Project #: 20161101/2007
Project Name: Vulcan-Louisville Fansteel
Project Location/State: North Chicago, IL
Lab Project #:
Sampler: Jessica Lepore/Elisa Walker
Lab PM: Donna Ingersoll

Preservative Key: 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Metals	VOCs	Anions	TOC	RSK-175	Alkalinity				Comments
Preservative							3	1	8	2	1	8				
1		VLF-MW-3	12/12/12	1000	11	W	1	3	1	2	3	1				
2		VLF-MW-4	12/12/12	1228	11	W	1	3	1	2	3	1				
3		OLD-MW-4	12/12/12	1144	11	W	1	3	1	2	3	1				
4		OLD-~~VLF~~ MW-9	12/12/12	1429	11	W	1	3	1	2	3	~~1~~ 2				
		OLD-~~VLF~~ MW-9	12/12/12	1429	1	W						1 JL				
																Sample collected for OLD-MW-9 due to MW being dewatered - not enough water to sample - JL
5		Trip Blank				W		x								

Turnaround Time Required (Business Days): ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days ___ Other
Requested Due Date ____

Sample Disposal: [ ] Return to Client [X] Disposal by Lab [ ] Archive for ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	OTIE	12/12/12	1630	[signature]	TA	12/13/12	1020
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: Fx
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments: Trip blank added by TA

TAL-4124-500 (1209)

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 (Sub Contract Lab)
Client Contact: Shipping/Receiving
Company: TestAmerica Laboratories, Inc.
Address: 30 Community Drive, Suite 11,
City: South Burlington
State, Zip: VT, 05403
Phone: 802-660-1990(Tel)
Email:
Project Name: Vulcan Louisville Fansteel
Site:

Sampler:
Phone:
Due Date Requested: 1/2/2013
TAT Requested (days):
PO #:
WO #:
Project #: 50004270
SSOW#:

Lab PM: Ingersoll, Donna L
E-Mail: donna.ingersoll@testamericainc.com
Carrier Tracking No(s):

COC No: 500-29310.1
Page: Page 1 of 1
Job #: 500-53234-1

Analysis Requested

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	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VLF-MW-3 (500-53234-1)	12/12/12	10:00 Central		Water			X	3	
VLF-MW-4 (500-53234-2)	12/12/12	12:28 Central		Water			X	3	
OLD-MW-4 (500-53234-3)	12/12/12	11:44 Central		Water			X	3	
OLD-MW-9 (500-53234-4)	12/12/12	14:29 Central		Water			X	2	

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 - Na2S2SO3
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
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sherri Scott	12/13/12 1600	TA-CHI	[illegible]	12/14/12 1015	TA-BUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Login Number: 53234

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	3.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53234-1

Login Number: 53234
List Number: 1
Creator: Kirchner, Benjamin

List Source: TestAmerica Burlington
List Creation: 12/14/12 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	563293
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	2.0ºC, IR GUN ID 181, CF -0.2
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	