

ANALYTICAL REPORT

Job Number: 240-97364-1

Job Description: Ravenna, OH

For:

Cardno GS, Inc
2496 Old Ivy Road
Suite 300

Charlottesville, VA 22903

Attention: Mr. Peter Chapman



Approved for release.
Patrick J McEntee
Manager of Project Management
6/27/2018 4:37 PM

Patrick J McEntee, Manager of Project Management
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patrick.mcentee@testamericainc.com
06/27/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

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

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

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Definitions/Glossary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Qualifiers

General Chemistry

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

Glossary

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

CASE NARRATIVE

Client: Cardno GS, Inc

Project: Ravenna, OH

Report Number: 240-97364-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/21/2018 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

Receipt Exceptions

The requested 7196A Hexavalent Chromium and 9056A Nitrate analyses were performed by TestAmerica's Canton laboratory.

TestAmerica Canton is not hold DoD accreditation; therefore, method EPA SW-846 Method 7196A and EPA SW-846 Method 9056A Nitrate is reported with standard data qualifiers applied. These methods were performed by TA Canton per client instruction in order to meet the analytical holding times.

HEXAVALENT CHROMIUM

Samples CBLmw-001-062018-GW (240-97364-1), CBLmw-001-D-062018-GW (240-97364-2) and CBLmw-002-062018-GW (240-97364-3) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 06/21/2018.

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

ANIONS

Samples CBLmw-001-062018-GW (240-97364-1), CBLmw-001-D-062018-GW (240-97364-2) and CBLmw-002-062018-GW (240-97364-3) were analyzed for anions in accordance with 9056A. The samples were analyzed on 06/22/2018.

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

Detection Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Client Sample ID: CBLmw-001-062018-GW

Lab Sample ID: 240-97364-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	62	J	100	14	ug/L	1		9056A	Total/NA

Client Sample ID: CBLmw-001-D-062018-GW

Lab Sample ID: 240-97364-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	62	J	100	14	ug/L	1		9056A	Total/NA

Client Sample ID: CBLmw-002-062018-GW

Lab Sample ID: 240-97364-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	1200		100	14	ug/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Client Sample ID: CBLmw-001-062018-GW

Lab Sample ID: 240-97364-1

Date Collected: 06/20/18 16:28

Matrix: Water

Date Received: 06/21/18 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		20	3.0	ug/L			06/21/18 08:10	1
Nitrate as N	62	J	100	14	ug/L			06/22/18 01:32	1

Client Sample ID: CBLmw-001-D-062018-GW

Lab Sample ID: 240-97364-2

Date Collected: 06/20/18 16:28

Matrix: Water

Date Received: 06/21/18 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		20	3.0	ug/L			06/21/18 08:08	1
Nitrate as N	62	J	100	14	ug/L			06/22/18 01:52	1

Client Sample ID: CBLmw-002-062018-GW

Lab Sample ID: 240-97364-3

Date Collected: 06/20/18 17:33

Matrix: Water

Date Received: 06/21/18 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		20	3.0	ug/L			06/21/18 08:10	1
Nitrate as N	1200		100	14	ug/L			06/22/18 02:12	1

Default Detection Limits

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

General Chemistry

Analyte	RL	MDL	Units	Method
Hexavalent chromium	20	3.0	ug/L	7196A
Nitrate as N	100	14	ug/L	9056A

QC Sample Results

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-332680/3
Matrix: Water
Analysis Batch: 332680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		20	3.0	ug/L			06/21/18 08:01	1

Lab Sample ID: LCS 240-332680/4
Matrix: Water
Analysis Batch: 332680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	250	263		ug/L		105	80 - 123

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-332753/3
Matrix: Water
Analysis Batch: 332753

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	14	ug/L			06/21/18 16:06	1

Lab Sample ID: LCS 240-332753/4
Matrix: Water
Analysis Batch: 332753

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2500	2560		ug/L		102	90 - 110

QC Association Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

General Chemistry

Analysis Batch: 332680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97364-1	CBLmw-001-062018-GW	Total/NA	Water	7196A	
240-97364-2	CBLmw-001-D-062018-GW	Total/NA	Water	7196A	
240-97364-3	CBLmw-002-062018-GW	Total/NA	Water	7196A	
MB 240-332680/3	Method Blank	Total/NA	Water	7196A	
LCS 240-332680/4	Lab Control Sample	Total/NA	Water	7196A	

Analysis Batch: 332753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97364-1	CBLmw-001-062018-GW	Total/NA	Water	9056A	
240-97364-2	CBLmw-001-D-062018-GW	Total/NA	Water	9056A	
240-97364-3	CBLmw-002-062018-GW	Total/NA	Water	9056A	
MB 240-332753/3	Method Blank	Total/NA	Water	9056A	
LCS 240-332753/4	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Client Sample ID: CBLmw-001-062018-GW

Date Collected: 06/20/18 16:28

Date Received: 06/21/18 08:00

Lab Sample ID: 240-97364-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	332680	06/21/18 08:10	LKG	TAL CAN
Total/NA	Analysis	9056A		1	332753	06/22/18 01:32	LKG	TAL CAN

Client Sample ID: CBLmw-001-D-062018-GW

Date Collected: 06/20/18 16:28

Date Received: 06/21/18 08:00

Lab Sample ID: 240-97364-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	332680	06/21/18 08:08	LKG	TAL CAN
Total/NA	Analysis	9056A		1	332753	06/22/18 01:52	LKG	TAL CAN

Client Sample ID: CBLmw-002-062018-GW

Date Collected: 06/20/18 17:33

Date Received: 06/21/18 08:00

Lab Sample ID: 240-97364-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	332680	06/21/18 08:10	LKG	TAL CAN
Total/NA	Analysis	9056A		1	332753	06/22/18 02:12	LKG	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Laboratory: TestAmerica Canton

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

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

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19

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

Method Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL CAN
9056A	Anions, Ion Chromatography	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97364-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-97364-1	CBLmw-001-062018-GW	Water	06/20/18 16:28	06/21/18 08:00
240-97364-2	CBLmw-001-D-062018-GW	Water	06/20/18 16:28	06/21/18 08:00
240-97364-3	CBLmw-002-062018-GW	Water	06/20/18 17:33	06/21/18 08:00

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-97364-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WCCHROME50PM2_00022	09/09/18	03/09/18	DIWATER, Lot 052014	1000 mL	WCKDICHROME62_00003	0.1414 g	Hexavalent chromium	49.9764 mg/L
.WCKDICHROME62_00003	06/06/19		Fisher, Lot 140919		(Purchased Reagent)		Hexavalent chromium	0.35344 g/g
WCCHROME50PPM_00024	09/09/18	03/09/18	DIWATER, Lot 052014	1000 mL	WCKDICHROME62_00004	0.1414 g	Hexavalent chromium	49.9764 mg/L
.WCKDICHROME62_00004	09/07/21		Fisher, Lot 126893		(Purchased Reagent)		Hexavalent chromium	0.35344 g/g
WCICCAL SOLN_00289	06/03/18	05/03/18	ELUENT, Lot 1847588	20 mL	WCICSOLNA1_00018	1.6 mL	Nitrate as N	10 mg/L
.WCICSOLNA1_00018	04/04/19		Inorganic Ventures, Lot K2-MEB653716		(Purchased Reagent)		Nitrate as N	125 ug/mL
.WCICSOLNB1_00017	04/04/19		Inorganic Ventures, Lot N2-MEB665675		(Purchased Reagent)		Nitrite as N	125 ug/mL
WCICCCV_00826	06/25/18	06/18/18	MOHMWATER, Lot 040618	50 mL	WCICSOLNA1_00018	1 mL	Nitrate as N	2.5 mg/L
.WCICSOLNA1_00018	04/04/19		Inorganic Ventures, Lot K2-MEB653716		(Purchased Reagent)		Nitrate as N	125 ug/mL
WCICLCS_00657	05/08/18	05/01/18	MOHMWATER, Lot 040618	50 mL	WCICSOLNA2_00018	5 mL	Nitrate as N	2.5 mg/L
.WCICSOLNA2_00018	11/30/18		High Purity Standards, Lot 1732028		(Purchased Reagent)		Nitrate as N	25 ug/mL
WCICLCS_00663	06/25/18	06/18/18	MOHMWATER, Lot 040618	50 mL	WCICSOLNA2_00018	5 mL	Nitrate as N	2.5 mg/L
.WCICSOLNA2_00018	11/30/18		High Purity Standards, Lot 1732028		(Purchased Reagent)		Nitrate as N	25 ug/mL

Reagent

WCICSOLNA1_00018

Characterization of CRM by two independent methods

Characterization of CRM by one method

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$$

X_a = mean of Assay Method A with standard uncertainty $u_{char a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$$w_a = (1/u_{char a})^2 / ((1/u_{char a})^2 + (1/u_{char b})^2)$$

$$w_b = (1/u_{char b})^2 / ((1/u_{char a})^2 + (1/u_{char b})^2)$$

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char a \& b}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char a \& b} = [(w_a)^2 (u_{char a})^2 + (w_b)^2 (u_{char b})^2]^{1/2}$ where $u_{char a}$ and $u_{char b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = \text{mean of Assay Method A with standard uncertainty } u_{char a}$$

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag keep cap tightly sealed when not in use. Store and use at 20° ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.4 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA, Telephone: 800 669 6799; 540 585 3030, Fax: 540 585 3012, inorganicventures.com, info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 29, 2016

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 29, 2019**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

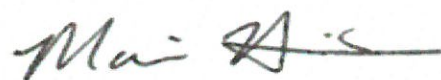
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year from the date of removal from the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being handled and stored in accordance with the instructions given in Sec 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Maurice Harris
Product Documentation Technician



Certificate Approved By:

Michael Booth
Supervisor, Quality Control



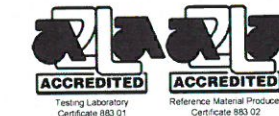
Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Ion Chromatography Solution
Catalog Number: TA-19REV1
Lot Number: K2-MEB653716
Matrix: H2O
Value / Analyte(s): 2 500 mg/L ea: Chloride, Sulfate,
500 mg/L ea: Bromide,
125 mg/L ea: Fluoride, Nitrate as N

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	500.0 ± 2.6 mg/L	Chloride, Cl	2 500 ± 13 mg/L
Fluoride, F-	125.0 ± 0.5 mg/L	Nitrate as N, NNO3-	125.0 ± 0.6 mg/L
Sulfate, SO4	2 500 ± 12 mg/L		

Certified Density: 1.010 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	020701
Br	Volhard	999c	999c
Cl	ICP Assay	3182	060925
Cl	Volhard	999c	999c
F-	IC Assay	3183	050721
NNO3-	IC Assay	3185	050517
SO4	IC Assay	3181	080603

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Reagent

WCICSOLNA2_00018

Certificate of Analysis

Certified Reference Material



Product Description:

Name: **CCV**
Part Number: **SM-606-140**
Solution A
Lot Number: **1732028**
Matrix: **H₂O**
Purity: **98.5+%**

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Certified Values:

<u>Component</u>	<u>(mg/L)</u>	<u>SRM ID</u>	<u>SRM Lot#</u>
Bromide	100 ± 1	3184	151130
Chloride	500 ± 3	3182	060925
Fluoride	25.0 ± 0.3	3183	140203
Nitrate as N	25.0 ± 0.3	3185	050517
Sulfate	500 ± 3	3181	080603

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via ion chromatography (IC) and/or inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section d

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: **November 2017**
Expiration Date: **November 2018**
Certificate Issue Date: **November 16, 2017**

Moven Mututuvvari

Moven Mututuvvari PhD., Laboratory Manager

Preparation Information:

The Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO Guide 34 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. Standard Weight and Analytical Balance

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. Volumetric Device

The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. Thermometer

The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. Calibration Standards

The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If a SRM is not available, a second source standard or independent lot is used.

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

WCICSOLNB1_00017

Characterization of CRM by two independent methods Characterization of CRM by one method

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$$

X_a = mean of Assay Method A with standard uncertainty $u_{char a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$$w_a = (1/u_{char a})^2 / ((1/u_{char a})^2 + (1/u_{char b})^2)$$

$$w_b = (1/u_{char b})^2 / ((1/u_{char a})^2 + (1/u_{char b})^2)$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a\&b}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char a\&b} = [(w_a)^2 (u_{char a})^2 + (w_b)^2 (u_{char b})^2]^{1/2}$ where $u_{char a}$ and $u_{char b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = \text{mean of Assay Method A with standard uncertainty } u_{char a}$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.4 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2018

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2021

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Supervisor, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Ion Chromatography Solution
Catalog Number: TA-18
Lot Number: N2-MEB665675
Matrix: H2O
Value / Analyte(s): 125 mg/L ea:
Nitrite as N

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Nitrite as N, NNO2-	125.0 ± 0.8 mg/L		

Density: 0.999 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
NNO2-	Calculated	traceable to 8040	SRM 8040
NNO2-	IC Assay		traceable to 40h nev

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Reagent

WCKDICHROME62_00003



1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0064970

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	P188	Quality Test / Release Date 2/25/2014	
Lot Number	140919		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	* Suggested Retest Date	Feb-2019
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	FINE ORANGE-RED CRYSTALS
ASSAY	%	>= 99	99.9
CALCIUM	%	<= 0.003	0.0010
CHLORIDE	%	<= 0.001	<0.0010
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.002
IRON (Fe)	%	<= 0.001	0.0010
LOSS ON DRYING @ 105 C	%	<= 0.05	0.02
SODIUM (Na)	%	<= 0.02	0.001
SULFATE (SO4)	%	<= 0.005	0.002



Edgar E. Hara

Lab Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.
 *Based on suggested storage condition.

Reagent

WCKDICHROME62_00004



1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by DNV Certificate number CERT-08052-2006-AQ-HOU-ANAB

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	P188	Mfg. Date	11/16/2012
Lot Number	126893		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Recommended Retest Date	Nov-2017
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red powder
ASSAY	%	>= 99	99.8
CALCIUM	%	<= 0.003	<0.0010
CHLORIDE	%	<= 0.001	<0.0010
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.004
IRON (Fe)	%	<= 0.001	0.0010
LOSS ON DRYING @ 105 C	%	<= 0.05	0.03
SODIUM (Na)	%	<= 0.02	0.005
SULFATE (SO4)	%	<= 0.005	0.003



Edgar E. Hara

Lab Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-97364-1

SDG No.: _____

Project: Ravenna, OH

Client Sample ID	Lab Sample ID
<u>CBLmw-001-062018-GW</u>	<u>240-97364-1</u>
<u>CBLmw-001-D-062018-GW</u>	<u>240-97364-2</u>
<u>CBLmw-002-062018-GW</u>	<u>240-97364-3</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: CBLmw-001-062018-GW

Lab Sample ID: 240-97364-1

Lab Name: TestAmerica Canton

Job No.: 240-97364-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/20/2018 16:28

Reporting Basis: WET

Date Received: 06/21/2018 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Hexavalent chromium	ND	20	3.0	ug/L			1	7196A
14797-55-8	Nitrate as N	62	100	14	ug/L	J		1	9056A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: CBLmw-001-D-062018-GW

Lab Sample ID: 240-97364-2

Lab Name: TestAmerica Canton

Job No.: 240-97364-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/20/2018 16:28

Reporting Basis: WET

Date Received: 06/21/2018 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Hexavalent chromium	ND	20	3.0	ug/L			1	7196A
14797-55-8	Nitrate as N	62	100	14	ug/L	J		1	9056A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: CBLmw-002-062018-GW

Lab Sample ID: 240-97364-3

Lab Name: TestAmerica Canton

Job No.: 240-97364-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/20/2018 17:33

Reporting Basis: WET

Date Received: 06/21/2018 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Hexavalent chromium	ND	20	3.0	ug/L			1	7196A
14797-55-8	Nitrate as N	1200	100	14	ug/L			1	9056A

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1
 SDG No.: _____
 Analyst: JWW Batch Start Date: 06/12/2018
 Reporting Units: mg/L Analytical Batch No.: 331317

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	16:38	Hexavalent chromium	0.266	0.250	106	90-110		WCCHROME50PM2_0002
8	ICB	16:39	Hexavalent chromium	ND					2

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 332680

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:01	Hexavalent chromium	0.270	0.250	108	90-110		WCCHROME50PPM_00024
2	CCB	08:01	Hexavalent chromium	ND					
10	CCV	08:06	Hexavalent chromium	0.270	0.250	108	90-110		WCCHROME50PPM_00024
11	CCB	08:06	Hexavalent chromium	ND					
16	CCV	08:11	Hexavalent chromium	0.270	0.250	108	90-110		WCCHROME50PPM_00024
17	CCB	08:13	Hexavalent chromium	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1
SDG No.: _____
Analyst: LKG Batch Start Date: 05/03/2018
Reporting Units: mg/L Analytical Batch No.: 325166

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	11:45	Nitrate as N	2.57	2.50	103	90-110		WCICLCS_00657
11	ICB	12:05	Nitrate as N	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 332753

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:26	Nitrate as N	2.52	2.50	101	90-110		WCICCCV_00826
2	CCB	15:46	Nitrate as N	ND					
13	CCV	19:29	Nitrate as N	2.52	2.50	101	90-110		WCICCCV_00826
14	CCB	19:50	Nitrate as N	ND					
25	CCV	23:31	Nitrate as N	2.53	2.50	101	90-110		WCICCCV_00826
26	CCB	23:51	Nitrate as N	ND					
37	CCV	03:32	Nitrate as N	2.53	2.50	101	90-110		WCICCCV_00826
38	CCB	03:53	Nitrate as N	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-97364-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 332680 Date: 06/21/2018 08:01							
7196A	MB 240-332680/3	Hexavalent chromium	ND		ug/L	20	1
Batch ID: 332753 Date: 06/21/2018 16:06							
9056A	MB 240-332753/3	Nitrate as N	ND		ug/L	100	1

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 332680 Date: 06/21/2018 08:01											
LCS Source: WCCHROME50PM2_00022											
7196A	LCS 240-332680/4	Hexavalent chromium	263		ug/L	250	105	80-123			
Batch ID: 332753 Date: 06/21/2018 16:27											
LCS Source: WCICLCS_00663											
9056A	LCS 240-332753/4	Nitrate as N	2560		ug/L	2500	102	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-97364-1

SDG Number: _____

Matrix: Water

Instrument ID: OSCAR

Method: 7196A

MDL Date: 04/25/2017 11:21

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hexavalent chromium		0.02	0.003

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-97364-1
SDG Number: _____
Matrix: Water Instrument ID: OSCAR
Method: 7196A XMDL Date: 04/25/2017 11:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hexavalent chromium		0.02	0.003

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-97364-1

SDG Number: _____

Matrix: Water

Instrument ID: VERONICA

Method: 9056A

MDL Date: 05/02/2017 14:42

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-97364-1
SDG Number: _____
Matrix: Water Instrument ID: VERONICA
Method: 9056A XMDL Date: 05/02/2017 14:43

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.1	0.014

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 06/12/2018 16:33 End Date: 06/12/2018 16:45

Lab Sample Id	D/F	T y p e	Time	C r 6	Analytes																			
IC 240-331317/1	1		16:33	X																				
IC 240-331317/2	1		16:33	X																				
IC 240-331317/3	1		16:34	X																				
IC 240-331317/4	1		16:35	X																				
IC 240-331317/5	1		16:36	X																				
IC 240-331317/6	1		16:37	X																				
ICV 240-331317/7	1		16:38	X																				
ICB 240-331317/8	1		16:39	X																				
ZZZZZZ			16:39																					
ZZZZZZ			16:40																					
ZZZZZZ			16:41																					
ZZZZZZ			16:42																					
ZZZZZZ			16:43																					
CCV 240-331317/14			16:44																					
CCB 240-331317/15			16:45																					

Prep Types: _____
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 06/21/2018 08:01 End Date: 06/21/2018 19:13

Lab Sample Id	D/F	Type	Time	C r 6	Analytes																			
CCV 240-332680/1	1		08:01	X																				
CCB 240-332680/2	1		08:01	X																				
MB 240-332680/3	1	T	08:01	X																				
LCS 240-332680/4	1	T	08:01	X																				
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:04																					
ZZZZZZ			08:04																					
ZZZZZZ			08:06																					
CCV 240-332680/10	1		08:06	X																				
CCB 240-332680/11	1		08:06	X																				
ZZZZZZ			08:08																					
240-97364-2	1	T	08:08	X																				
240-97364-3	1	T	08:10	X																				
240-97364-1	1	T	08:10	X																				
CCV 240-332680/16	1		08:11	X																				
CCB 240-332680/17	1		08:13	X																				
ZZZZZZ			09:17																					
CCV 240-332680/19			09:17																					
CCB 240-332680/20			09:17																					
ZZZZZZ			11:35																					
CCV 240-332680/22			11:35																					
CCB 240-332680/23			11:37																					
ZZZZZZ			19:00																					
ZZZZZZ			19:02																					
ZZZZZZ			19:04																					
ZZZZZZ			19:06																					
ZZZZZZ			19:08																					
ZZZZZZ			19:10																					
ZZZZZZ			19:11																					
CCV 240-332680/31			19:12																					
CCB 240-332680/32			19:13																					

Prep Types: _____
T = Total/NA

13-IN
 ANALYSIS RUN LOG
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 9056A

Start Date: 05/03/2018 08:44 End Date: 05/03/2018 12:05

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				N O 3																									
STD1 240-325166/1 IC	1		08:44	X																									
STD2 240-325166/2 IC	1		09:04	X																									
STD3 240-325166/3 IC	1		09:24	X																									
STD4 240-325166/4 IC	1		09:44	X																									
STD5 240-325166/5 ICRT	1		10:04	X																									
STD6 240-325166/6 IC	1		10:24	X																									
STD7 240-325166/7 IC	1		10:44	X																									
STD8 240-325166/8 IC	1		11:05	X																									
STD9 240-325166/9 IC	1		11:25	X																									
ICV 240-325166/10	1		11:45	X																									
ICB 240-325166/11	1		12:05	X																									

Prep Types: _____

=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 9056A

Start Date: 06/21/2018 15:26 End Date: 06/22/2018 09:55

Lab Sample Id	D/F	Type	Time	NO3	Analytes																			
CCV 240-332753/1	1		15:26	X																				
CCB 240-332753/2	1		15:46	X																				
MB 240-332753/3	1	T	16:06	X																				
LCS 240-332753/4	1	T	16:27	X																				
ZZZZZZ			16:47																					
ZZZZZZ			17:07																					
ZZZZZZ			17:27																					
ZZZZZZ			17:48																					
ZZZZZZ			18:08																					
ZZZZZZ			18:28																					
ZZZZZZ			18:49																					
ZZZZZZ			19:09																					
CCV 240-332753/13	1		19:29	X																				
CCB 240-332753/14	1		19:50	X																				
ZZZZZZ			20:10																					
ZZZZZZ			20:30																					
ZZZZZZ			20:50																					
ZZZZZZ			21:10																					
ZZZZZZ			21:30																					
ZZZZZZ			21:51																					
ZZZZZZ			22:11																					
ZZZZZZ			22:31																					
ZZZZZZ			22:51																					
ZZZZZZ			23:11																					
CCV 240-332753/25	1		23:31	X																				
CCB 240-332753/26	1		23:51	X																				
ZZZZZZ			00:11																					
ZZZZZZ			00:31																					
ZZZZZZ			00:52																					
ZZZZZZ			01:12																					
240-97364-1	1	T	01:32	X																				
240-97364-2	1	T	01:52	X																				
240-97364-3	1	T	02:12	X																				
ZZZZZZ			02:32																					
ZZZZZZ			02:52																					
ZZZZZZ			03:12																					
CCV 240-332753/37	1		03:32	X																				
CCB 240-332753/38	1		03:53	X																				
ZZZZZZ			04:13																					
ZZZZZZ			04:33																					
ZZZZZZ			04:53																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 9056A

Start Date: 06/21/2018 15:26 End Date: 06/22/2018 09:55

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				N O 3																											
ZZZZZZ			05:13																												
ZZZZZZ			05:33																												
ZZZZZZ			05:53																												
ZZZZZZ			06:13																												
ZZZZZZ			06:33																												
ZZZZZZ			06:54																												
ZZZZZZ			07:14																												
CCV 240-332753/49			07:34																												
CCB 240-332753/50			07:54																												
ZZZZZZ			08:14																												
ZZZZZZ			08:34																												
ZZZZZZ			08:54																												
ZZZZZZ			09:14																												
CCV 240-332753/55			09:35																												
CCB 240-332753/56			09:55																												

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Batch Number: 331317 Batch Start Date: 06/12/18 16:33 Batch Analyst: Weimer, Joshua W

Batch Method: 7196A Batch End Date: 06/12/18 16:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	WCCHROME50PM2 00022	WCCHROME50PPM 00024	
IC 240-331317/1		7196A		50.0 mL	50.0 mL	0 Absorbance			
IC 240-331317/2		7196A		50.0 mL	50.0 mL	0.004 Absorbance		0.005 mL	
IC 240-331317/3		7196A		50.0 mL	50.0 mL	0.008 Absorbance		0.01 mL	
IC 240-331317/4		7196A		50.0 mL	50.0 mL	0.074 Absorbance		0.1 mL	
IC 240-331317/5		7196A		50.0 mL	50.0 mL	0.190 Absorbance		0.25 mL	
IC 240-331317/6		7196A		50.0 mL	50.0 mL	0.362 Absorbance		0.5 mL	
ICV 240-331317/7		7196A		50.0 mL	50.0 mL	0.195 Absorbance	0.25 mL		
ICB 240-331317/8		7196A		50.0 mL	50.0 mL	0 Absorbance			

Batch Notes	
Acid Used for pH Adjustment ID	3294428
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3628696

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Batch Number: 332680 Batch Start Date: 06/21/18 08:01 Batch Analyst: Grossman, Lucas

Batch Method: 7196A Batch End Date: 06/21/18 19:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	WCCHROME50PM2 00022	WCCHROME50PPM 00024
CCV 240-332680/1		7196A		50 mL	50 mL		.198 Absorbance		0.25 mL
CCB 240-332680/2		7196A		50 mL	50 mL		0 Absorbance		
MB 240-332680/3		7196A		50 mL	50 mL		0 Absorbance		
LCS 240-332680/4		7196A		50 mL	50 mL		.193 Absorbance	0.25 mL	
CCV 240-332680/10		7196A		50 mL	50 mL		.198 Absorbance		0.25 mL
CCB 240-332680/11		7196A		50 mL	50 mL		0 Absorbance		
240-97364-A-2	CBLmw-001-D-0620 18-GW	7196A	T	50 mL	50 mL	.001 Absorbance	.003 Absorbance		
240-97364-A-3	CBLmw-002-062018 -GW	7196A	T	50 mL	50 mL	0 Absorbance	0 Absorbance		
240-97364-A-1	CBLmw-001-062018 -GW	7196A	T	50 mL	50 mL	.001 Absorbance	.003 Absorbance		
CCV 240-332680/16		7196A		50 mL	50 mL		.198 Absorbance		0.25 mL
CCB 240-332680/17		7196A		50 mL	50 mL		0 Absorbance		

Batch Notes	
Acid Used for pH Adjustment ID	3294428
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3641717
Phosphoric Acid ID	2449071

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Batch Number: 325166 Batch Start Date: 05/03/18 08:44 Batch Analyst: Grossman, Lucas

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00289	WCICLCS 00657			
STD1 240-325166/1 IC		9056A		5 mL	0.025 mL				
STD2 240-325166/2 IC		9056A		5 mL	0.125 mL				
STD3 240-325166/3 IC		9056A		5 mL	0.25 mL				
STD4 240-325166/4 IC		9056A		5 mL	0.5 mL				
STD5 240-325166/5 ICRT		9056A		5 mL	1.25 mL				
STD6 240-325166/6 IC		9056A		5 mL	2 mL				
STD7 240-325166/7 IC		9056A		5 mL	2.5 mL				
STD8 240-325166/8 IC		9056A		5 mL	3.75 mL				
STD9 240-325166/9 IC		9056A		5 mL	5 mL				
ICV 240-325166/10		9056A		5 mL		5 mL			
ICB 240-325166/11		9056A		5 mL					

Batch Notes	
Eluent 1 ID	water

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97364-1

SDG No.: _____

Batch Number: 332753 Batch Start Date: 06/21/18 15:26 Batch Analyst: Grossman, Lucas

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00826	WCICLCS 00663			
CCV 240-332753/1		9056A		5 mL	5 mL				
CCB 240-332753/2		9056A		5 mL					
MB 240-332753/3		9056A		5 mL					
LCS 240-332753/4		9056A		5 mL		5 mL			
CCV 240-332753/13		9056A		5 mL	5 mL				
CCB 240-332753/14		9056A		5 mL					
CCV 240-332753/25		9056A		5 mL	5 mL				
CCB 240-332753/26		9056A		5 mL					
240-97364-B-1	CBLmw-001-062018 -GW	9056A	T	5 mL					
240-97364-B-2	CBLmw-001-D-0620 18-GW	9056A	T	5 mL					
240-97364-B-3	CBLmw-002-062018 -GW	9056A	T	5 mL					
CCV 240-332753/37		9056A		5 mL	5 mL				
CCB 240-332753/38		9056A		5 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

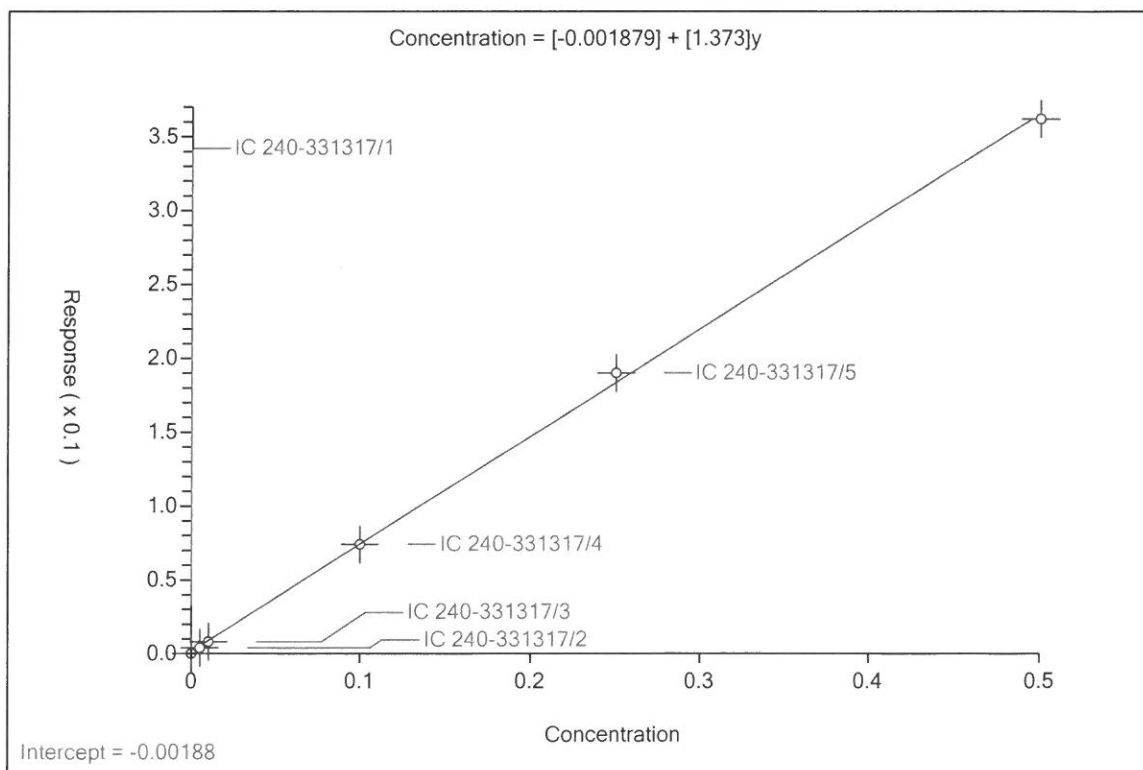
Calibration

Calib 331317-0 / Cr (VI)

Curve Type: Linear
 Weighting: None
 Origin: None
 Dependency: Concentration
 Calib Mode: ESTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.001879
Slope:	1.373
Error Coefficients	
Standard Error:	0.00526
Relative Standard Error:	16.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999 (0.999)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 240-331317/1	0.0	0.0			NaN	Y
2	IC 240-331317/2	0.004998	0.004			0.800378	Y
3	IC 240-331317/3	0.009995	0.008			0.800378	Y
4	IC 240-331317/4	0.099953	0.074			0.74035	Y
5	IC 240-331317/5	0.249882	0.19			0.760359	Y
6	IC 240-331317/6	0.499764	0.362			0.724342	Y



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-001_02_ECD_1.d
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-May-2018 08:44:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-001
 Misc. Info.: std1
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:05 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.810	3.820	-0.010	1197761	NC	NC	
2 Chloride	5.603	5.610	-0.007	15831540	NC	NC	
3 Nitrite as N	6.693	6.700	-0.007	1755205	0.0500	0.0473	
4 Bromide	8.183	8.173	0.010	1228647	NC	NC	
5 Nitrate as N	9.163	9.140	0.023	1737839	0.0500	0.0452	
6 Sulfate	11.203	11.057	0.146	11406761	NC	NC	
S 7 Nitrate Nitrite as N						0.0925	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSNLN_00289

Amount Added: 0.03

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-001_02_ECD_1.d

Injection Date: 03-May-2018 08:44:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD1

Worklist Smp#: 1

Client ID:

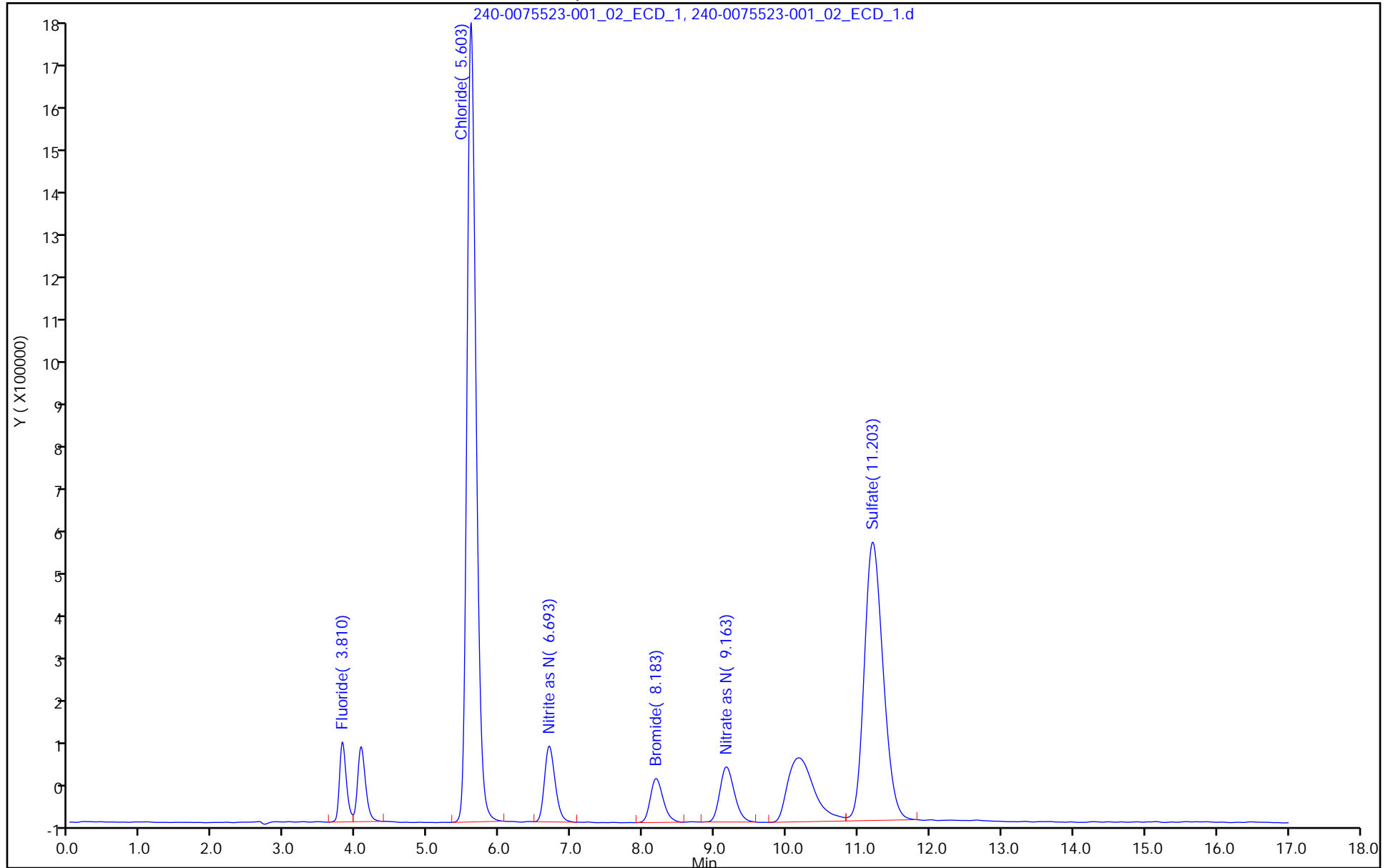
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-002_03_ECD_1.d
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-May-2018 09:04:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-002
 Misc. Info.: std2
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:07 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.817	3.820	-0.003	6815871	NC	NC	
2 Chloride	5.607	5.610	-0.003	81436997	NC	NC	
3 Nitrite as N	6.697	6.700	-0.003	9552572	0.2500	0.2576	
4 Bromide	8.187	8.173	0.014	6743459	NC	NC	
5 Nitrate as N	9.163	9.140	0.023	9490704	0.2500	0.2467	
6 Sulfate	11.183	11.057	0.126	60157497	NC	NC	
S 7 Nitrate Nitrite as N						0.5043	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSNLN_00289

Amount Added: 0.13

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-002_03_ECD_1.d

Injection Date: 03-May-2018 09:04:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD2

Worklist Smp#: 2

Client ID:

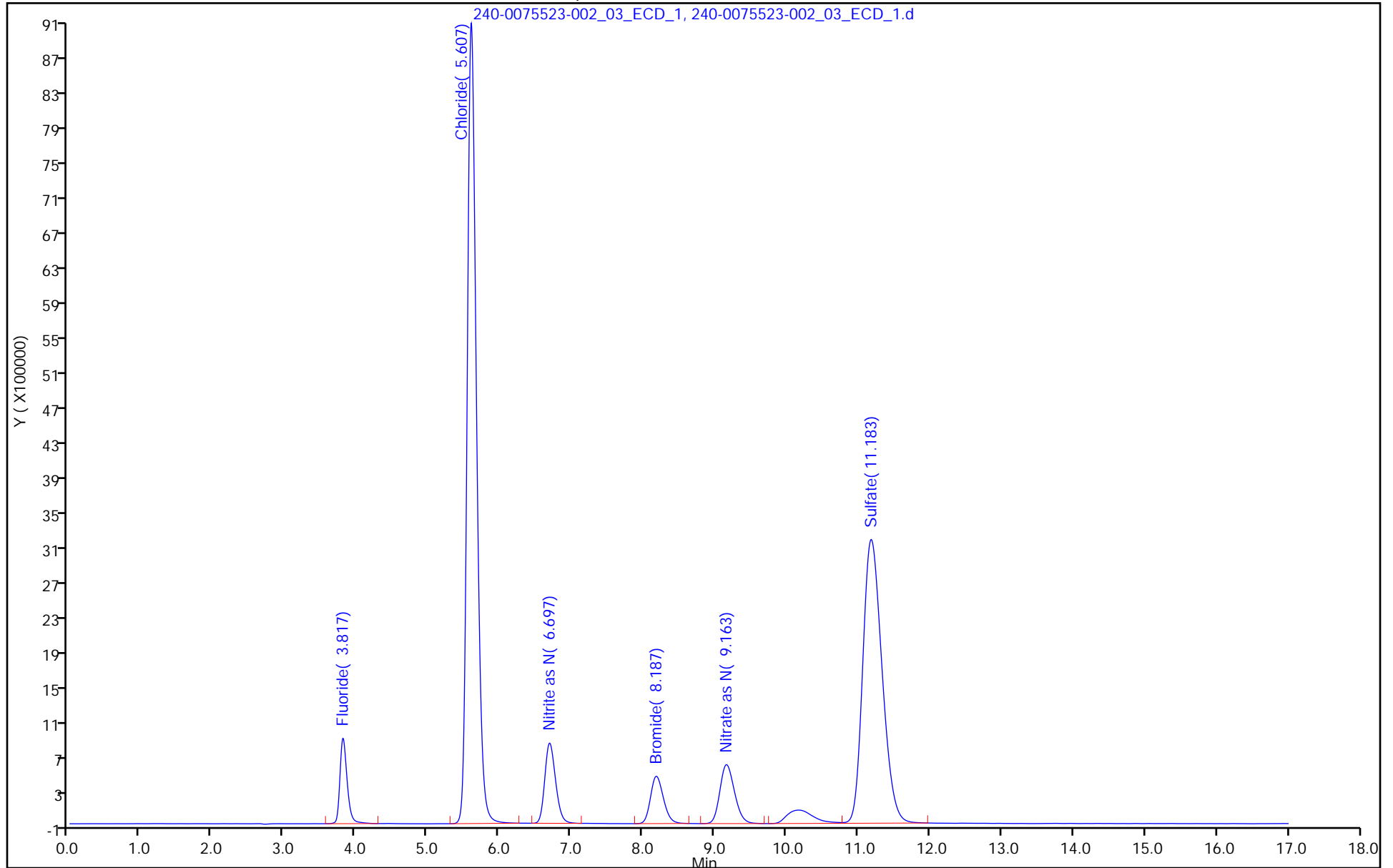
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-003_04_ECD_1.d
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-May-2018 09:24:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-003
 Misc. Info.: std3
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:09 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.817	3.820	-0.003	13559904	NC	NC	
2 Chloride	5.610	5.610	0.000	159898209	NC	NC	
3 Nitrite as N	6.697	6.700	-0.003	19058628	0.5000	0.5140	
4 Bromide	8.183	8.173	0.010	13481351	NC	NC	
5 Nitrate as N	9.163	9.140	0.023	19044724	0.5000	0.4950	
6 Sulfate	11.167	11.057	0.110	118281206	NC	NC	
S 7 Nitrate Nitrite as N						1.01	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSNLN_00289

Amount Added: 0.25

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-003_04_ECD_1.d

Injection Date: 03-May-2018 09:24:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD3

Worklist Smp#: 3

Client ID:

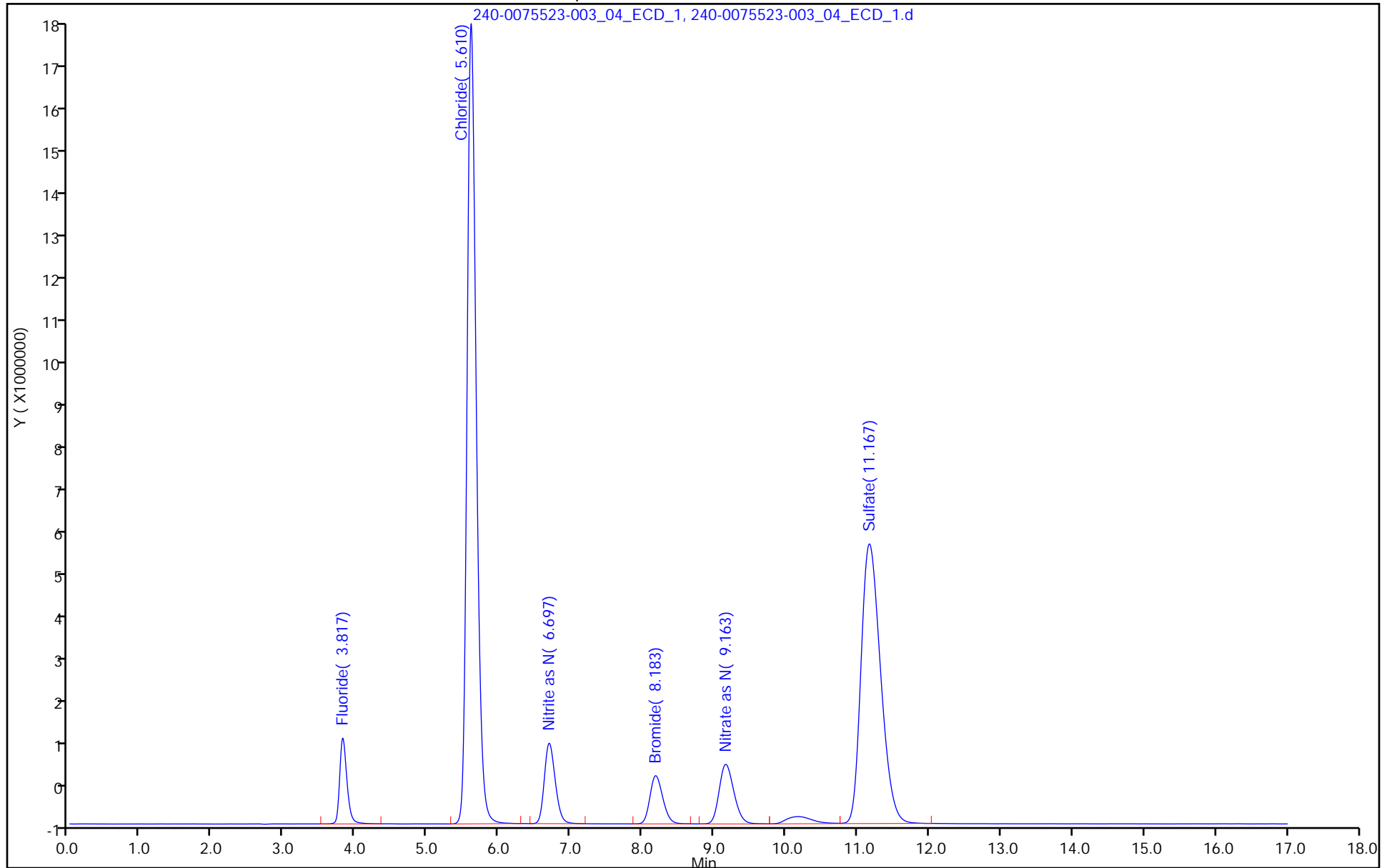
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-004_05_ECD_1.d
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-May-2018 09:44:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-004
 Misc. Info.: std4
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:10 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d

Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.817	3.820	-0.003	27736492	NC	NC	
2 Chloride	5.603	5.610	-0.007	323891188	NC	NC	
3 Nitrite as N	6.697	6.700	-0.003	38653293	1.00	1.04	
4 Bromide	8.183	8.173	0.010	27826605	NC	NC	
5 Nitrate as N	9.157	9.140	0.017	38888978	1.00	1.01	
6 Sulfate	11.133	11.057	0.076	239950684	NC	NC	
S 7 Nitrate Nitrite as N						2.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSNLN_00289

Amount Added: 0.50

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-004_05_ECD_1.d

Injection Date: 03-May-2018 09:44:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD4

Worklist Smp#: 4

Client ID:

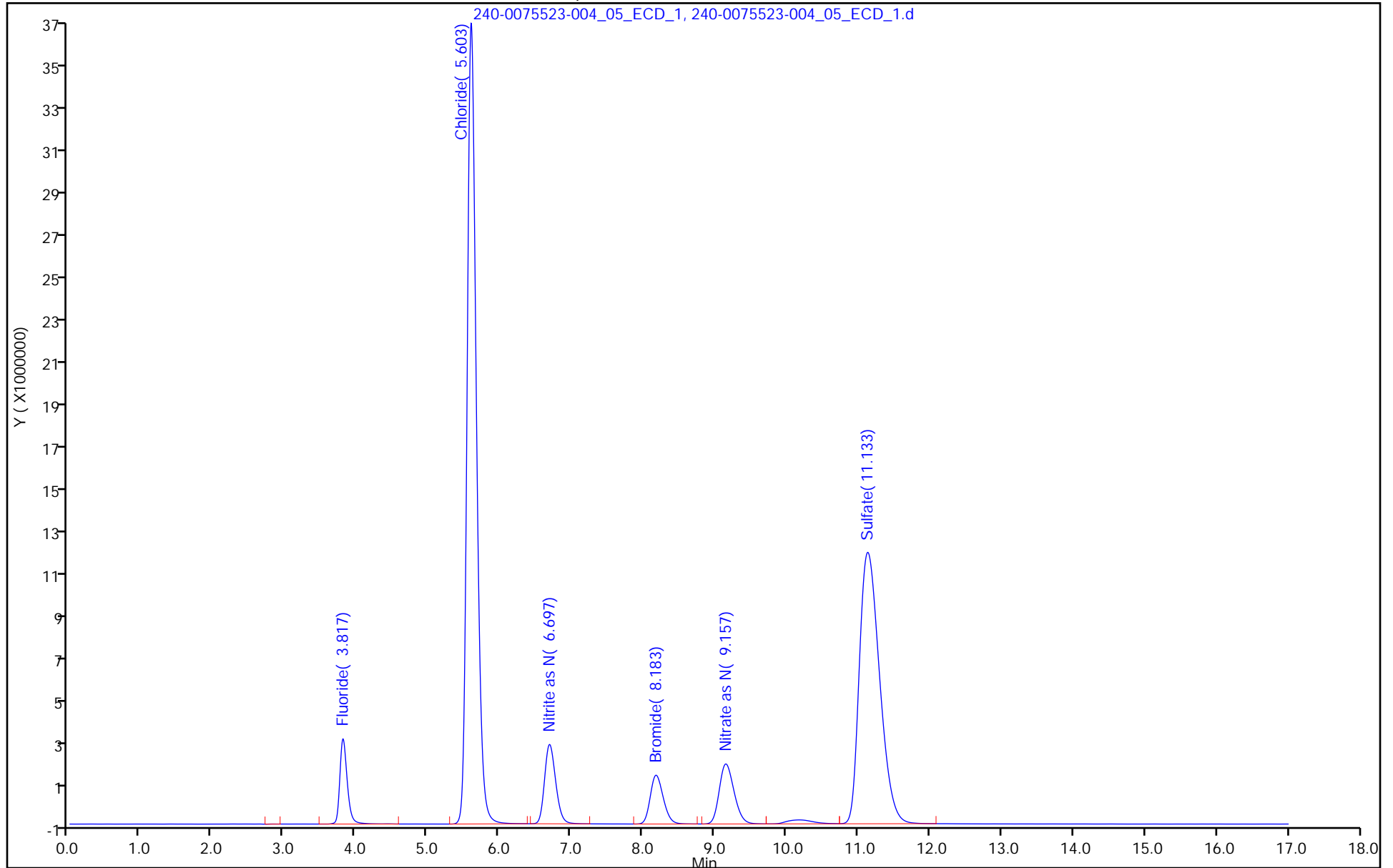
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-005_06_ECD_1.d
 Lims ID: STD5
 Client ID:
 Sample Type: ICRT Calib Level: 5
 Inject. Date: 03-May-2018 10:04:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-005
 Misc. Info.: std5
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:12 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.820	3.820	0.000	67669129	NC	NC	
2 Chloride	5.610	5.610	0.000	798610033	NC	NC	
3 Nitrite as N	6.700	6.700	0.000	94222695	2.50	2.54	
4 Bromide	8.173	8.173	0.000	69637516	NC	NC	
5 Nitrate as N	9.140	9.140	0.000	97414420	2.50	2.53	
6 Sulfate	11.057	11.057	0.000	592041461	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCAL SOLN_00289

Amount Added: 1.25

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-005_06_ECD_1.d

Injection Date: 03-May-2018 10:04:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD5

Worklist Smp#: 5

Client ID:

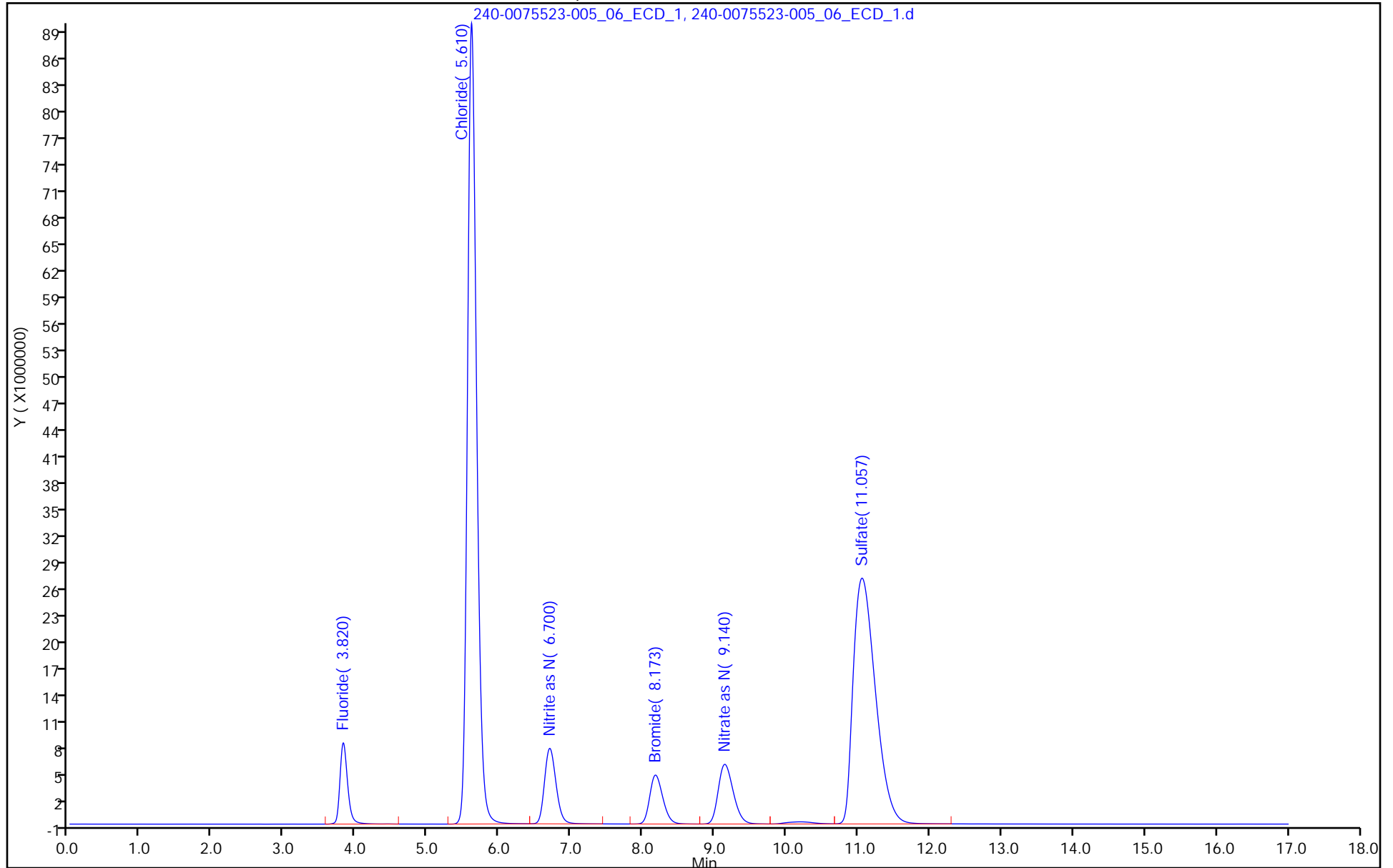
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-006_07_ECD_1.d
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-May-2018 10:24:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-006
 Misc. Info.: std6
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:14 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.827	3.820	0.007	107787617	NC	NC	
2 Chloride	5.613	5.610	0.003	1286519252	NC	NC	
3 Nitrite as N	6.703	6.700	0.003	149846279	4.00	4.04	
4 Bromide	8.170	8.173	-0.003	112777449	NC	NC	
5 Nitrate as N	9.127	9.140	-0.013	157773722	4.00	4.10	
6 Sulfate	10.980	11.057	-0.077	956105619	NC	NC	
S 7 Nitrate Nitrite as N						8.14	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSNLN_00289

Amount Added: 2.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-006_07_ECD_1.d

Injection Date: 03-May-2018 10:24:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD6

Worklist Smp#: 6

Client ID:

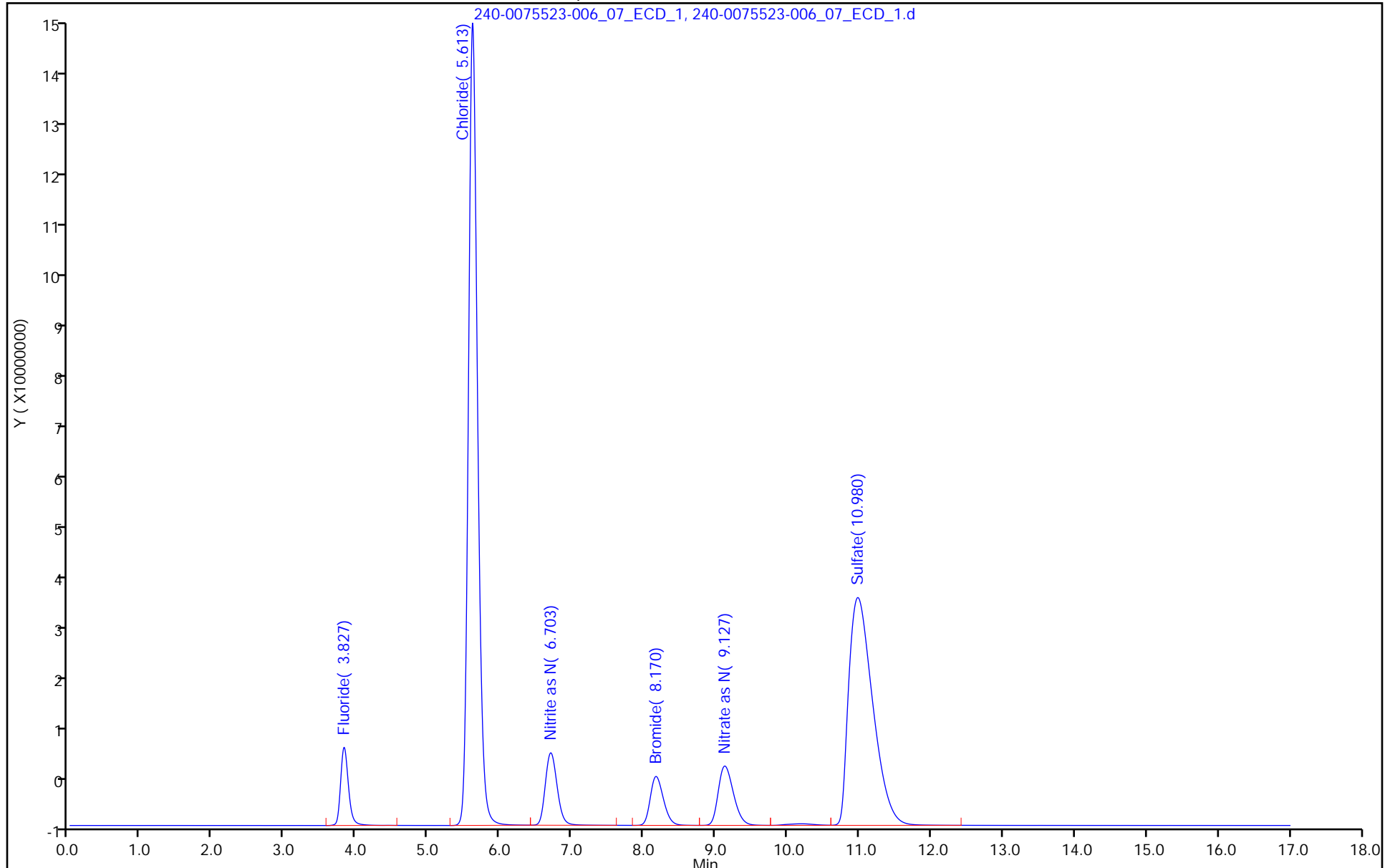
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-007_08_ECD_1.d
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-May-2018 10:44:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-007
 Misc. Info.: std7
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:16 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.827	3.820	0.007	133821028	NC	NC	
2 Chloride	5.617	5.610	0.007	1608921561	NC	NC	
3 Nitrite as N	6.703	6.700	0.003	185501782	5.00	5.00	
4 Bromide	8.160	8.173	-0.013	141398078	NC	NC	
5 Nitrate as N	9.113	9.140	-0.027	197720280	5.00	5.14	
6 Sulfate	10.943	11.057	-0.114	1195881105	NC	NC	
S 7 Nitrate Nitrite as N						10.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSN_00289

Amount Added: 2.50

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-007_08_ECD_1.d

Injection Date: 03-May-2018 10:44:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD7

Worklist Smp#: 7

Client ID:

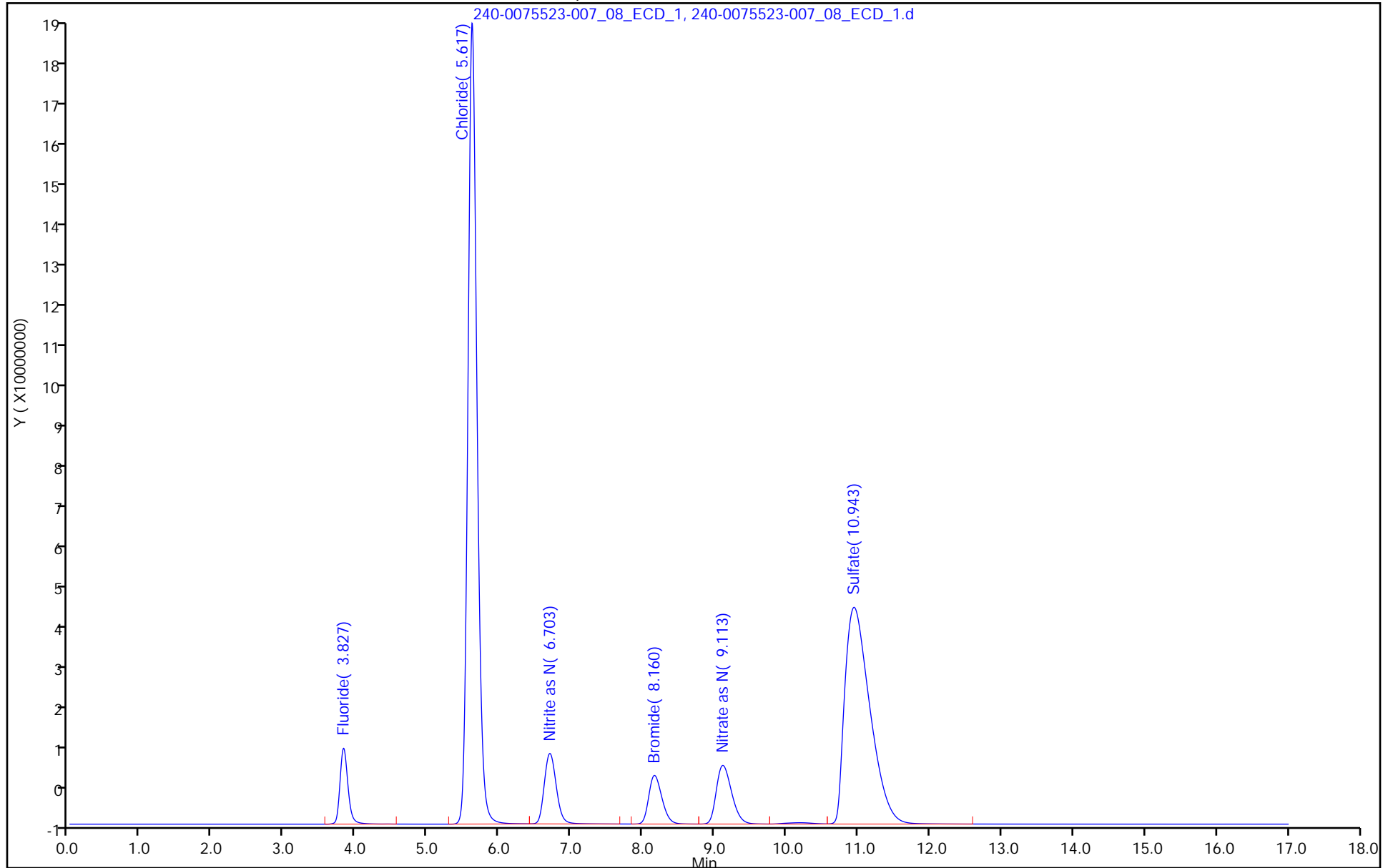
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-008_09_ECD_1.d
 Lims ID: STD8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-May-2018 11:05:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-008
 Misc. Info.: std8
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:17 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.830	3.820	0.010	194513502	NC	NC	
2 Chloride	5.627	5.610	0.017	2381048216	NC	NC	
3 Nitrite as N	6.703	6.700	0.003	269804982	7.50	7.28	
4 Bromide	8.150	8.173	-0.023	210350453	NC	NC	
5 Nitrate as N	9.090	9.140	-0.050	294089003	7.50	7.64	
6 Sulfate	10.843	11.057	-0.214	1769154719	NC	NC	
S 7 Nitrate Nitrite as N						14.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCALSN_00289

Amount Added: 3.75

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-008_09_ECD_1.d

Injection Date: 03-May-2018 11:05:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD8

Worklist Smp#: 8

Client ID:

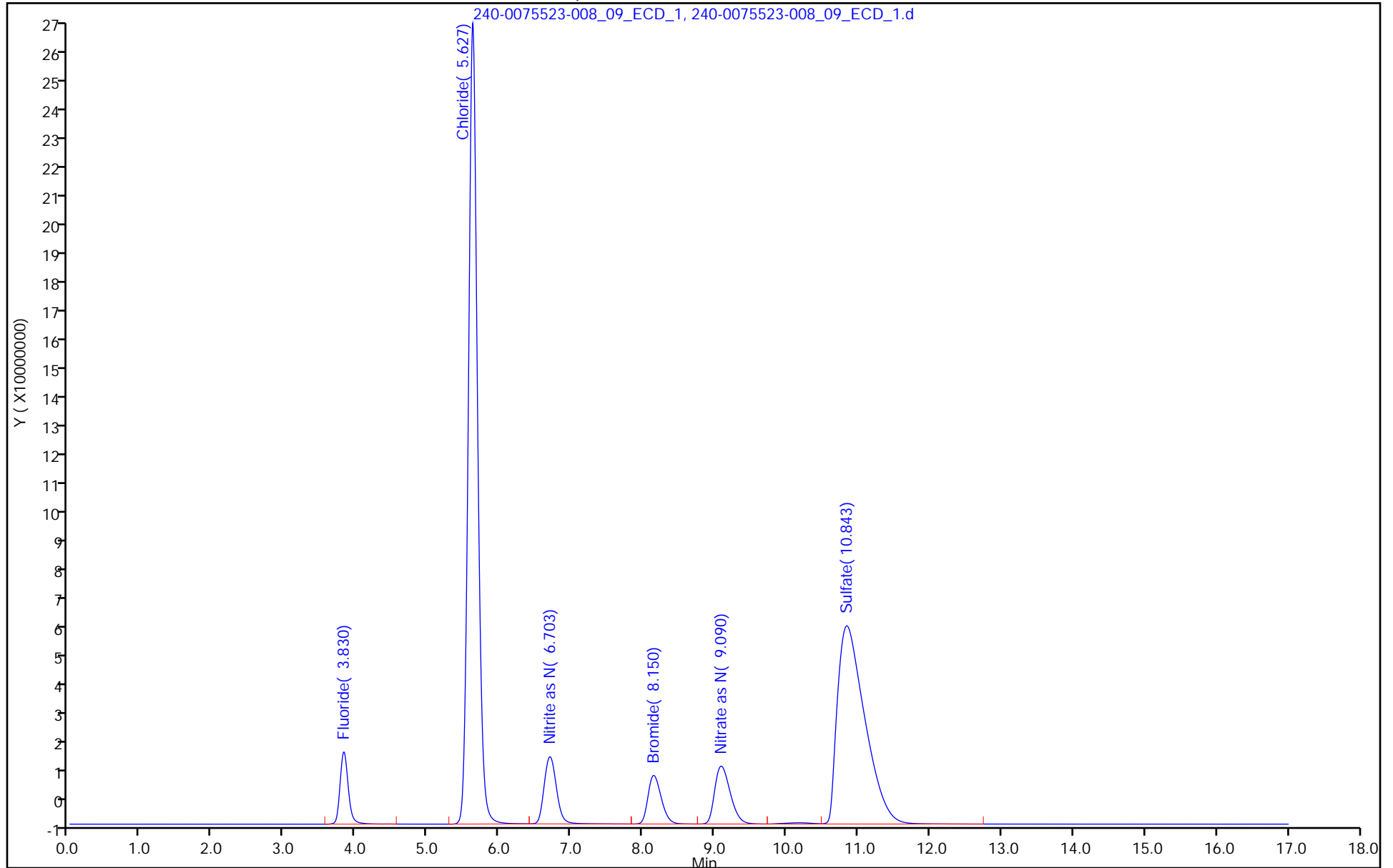
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Lims ID: STD9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 03-May-2018 11:25:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-009
 Misc. Info.: std9
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:19 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.820	3.820	0.000	255466107	NC	NC	
2 Chloride	5.627	5.610	0.017	3177158918	NC	NC	
3 Nitrite as N	6.693	6.700	-0.007	354086352	10.0	9.55	
4 Bromide	8.130	8.173	-0.043	281702036	NC	NC	
5 Nitrate as N	9.063	9.140	-0.077	393930698	10.0	10.2	
6 Sulfate	10.767	11.057	-0.290	2356846221	NC	NC	
S 7 Nitrate Nitrite as N						19.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCAL SOLN_00289

Amount Added: 5.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d

Injection Date: 03-May-2018 11:25:00

Instrument ID: VERONICA

Operator ID:

Lims ID: STD9

Worklist Smp#: 9

Client ID:

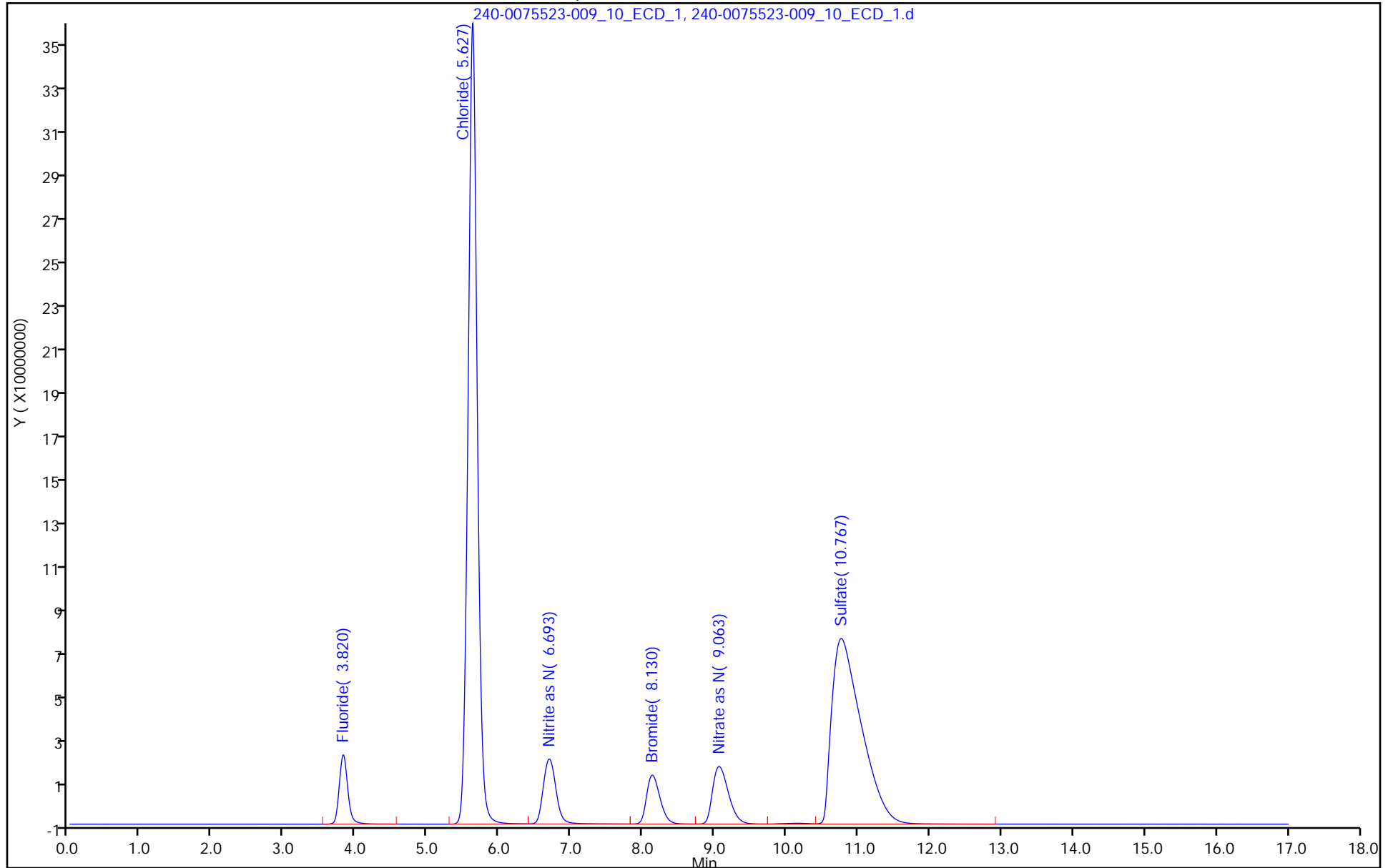
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m

Instrument: VERONICA

Lims Location: 240

Lock State: Unlocked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 03-May-2018 12:45:06

No.Compounds:9

Initial Calibration Batches

Ical Batch: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b

Inj Date : 03-May-2018 08:44:00, Sublist: chrom-300_Veronica*sub4

Limit Group: WET IC ICAL

Column 1 :

Det: IC 0001

Compound	Level 1 RF%Drift	Level 2 RF%Drift	Level 3 RF%Drift	Level 4 RF%Drift	Level 5 RF%Drift	Level 6 RF%Drift	Level 7 RF%Drift	Level 8 RF%Drift	Level 9 RF%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	23955220 -9.5	27263484 3.0	27119808 2.4	27736492 4.7	27067652 2.2	26946904 1.8	26764206 1.1	25935134 -2.1	25546611 -3.5		26481723		WAvg	4.4		
2 Chloride	15831540 -1.2	16287399 1.7	15989821 -0.2	16194559 1.1	15972201 -0.3	16081491 0.4	16089216 0.4	15873655 -0.9	15885795 -0.9		16022853		WAvg	1.0		
3 Nitrite as N	35104100 -5.3	38210288 3.0	38117256 2.8	38653293 4.2	37689078 1.6	37461570 1.0	37100356 0.1	35973998 -3.0	35408635 -4.5		37079842		WAvg	3.5		
4 Bromide	6143235 -10.4	6743459 -1.7	6740676 -1.7	6956651 1.4	6963752 1.5	7048591 2.8	7069904 3.1	7011682 2.2	7042551 2.7		6857833		WAvg	4.3		
5 Nitrate as N	34756780 -9.7	37962816 -1.3	38089448 -1.0	38888978 1.1	38965768 1.3	39443431 2.5	39544056 2.8	39211867 1.9	39393070 2.4		38472913		WAvg	3.9		
6 Sulfate	11406761 -3.7	12031499 1.6	11828121 -0.1	11997534 1.3	11840829 0.0	11951320 0.9	11958811 1.0	11794365 -0.4	11784231 -0.5		11843719		WAvg	1.6		

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-010_11_ECD_1.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 03-May-2018 11:45:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-010
 Misc. Info.: icv
 Operator ID: Instrument ID: VERONICA
 Sublist:
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:19 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d

Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.810	3.820	-0.010	67742727	NC	NC	
2 Chloride	5.600	5.610	-0.010	810611156	NC	NC	
3 Nitrite as N	6.687	6.700	-0.013	91388243	2.50	2.46	
4 Bromide	8.163	8.173	-0.010	70116052	NC	NC	
5 Nitrate as N	9.130	9.140	-0.010	98822366	2.50	2.57	
6 Sulfate	11.040	11.057	-0.017	595267596	NC	NC	

QC Flag Legend

Processing Flags
 NC - Not Calibrated

Reagents:

WCICLCS_00657 Amount Added: 5.00 Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-010_11_ECD_1.d

Injection Date: 03-May-2018 11:45:00

Instrument ID: VERONICA

Operator ID:

Lims ID: ICV

Worklist Smp#: 10

Client ID:

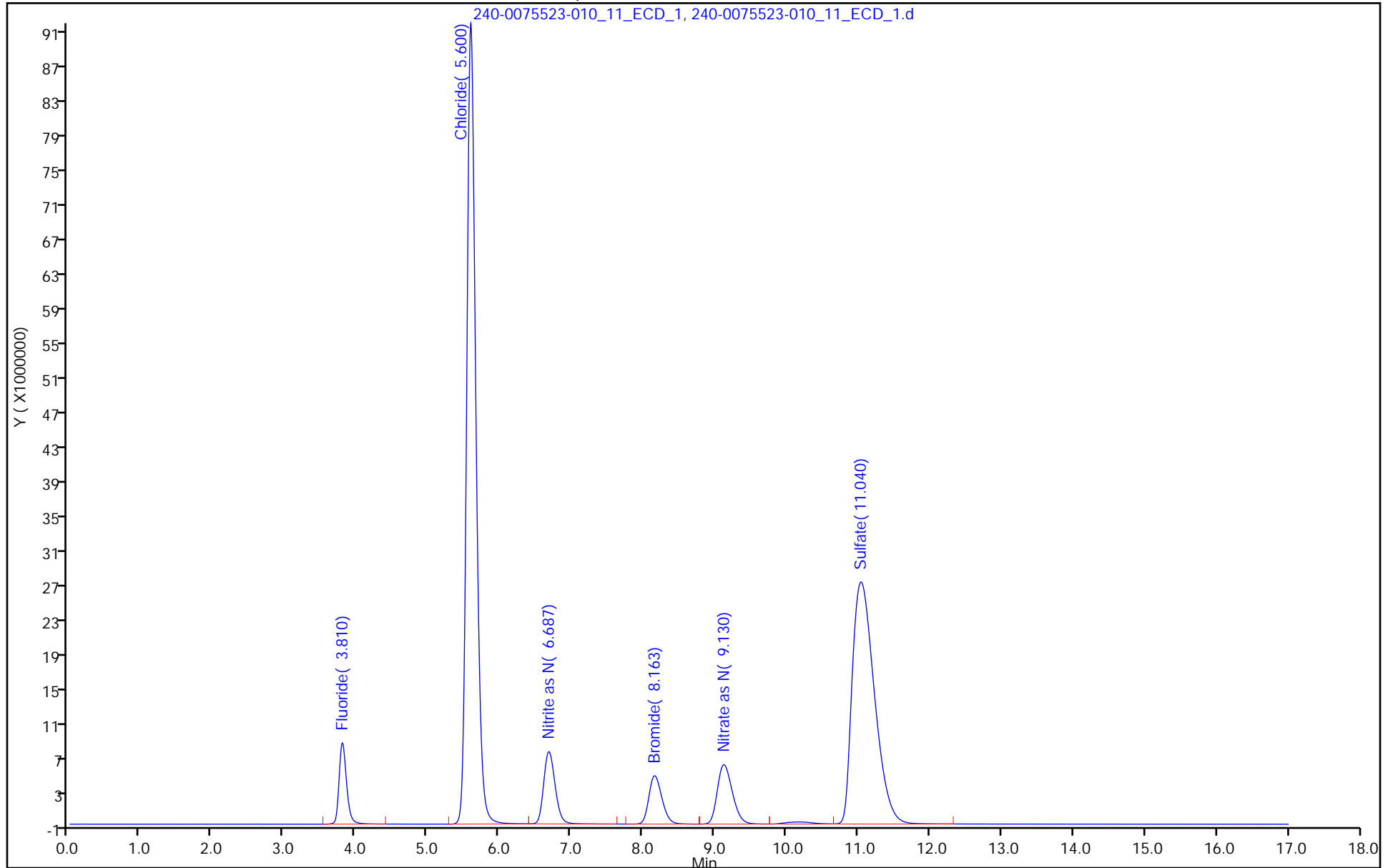
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-011_12_ECD_1.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 03-May-2018 12:05:00 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0075523-011
 Misc. Info.: icb
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 03-May-2018 12:47:19 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK053

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.803	3.820	-0.017	55570			NC
2 Chloride	5.590	5.610	-0.020	742051			NC
3 Nitrite as N		6.700					ND
4 Bromide		8.173					ND
5 Nitrate as N		9.140					ND
6 Sulfate	11.183	11.057	0.126	526450			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-011_12_ECD_1.d

Injection Date: 03-May-2018 12:05:00

Instrument ID: VERONICA

Operator ID:

Lims ID: ICB

Worklist Smp#: 11

Client ID:

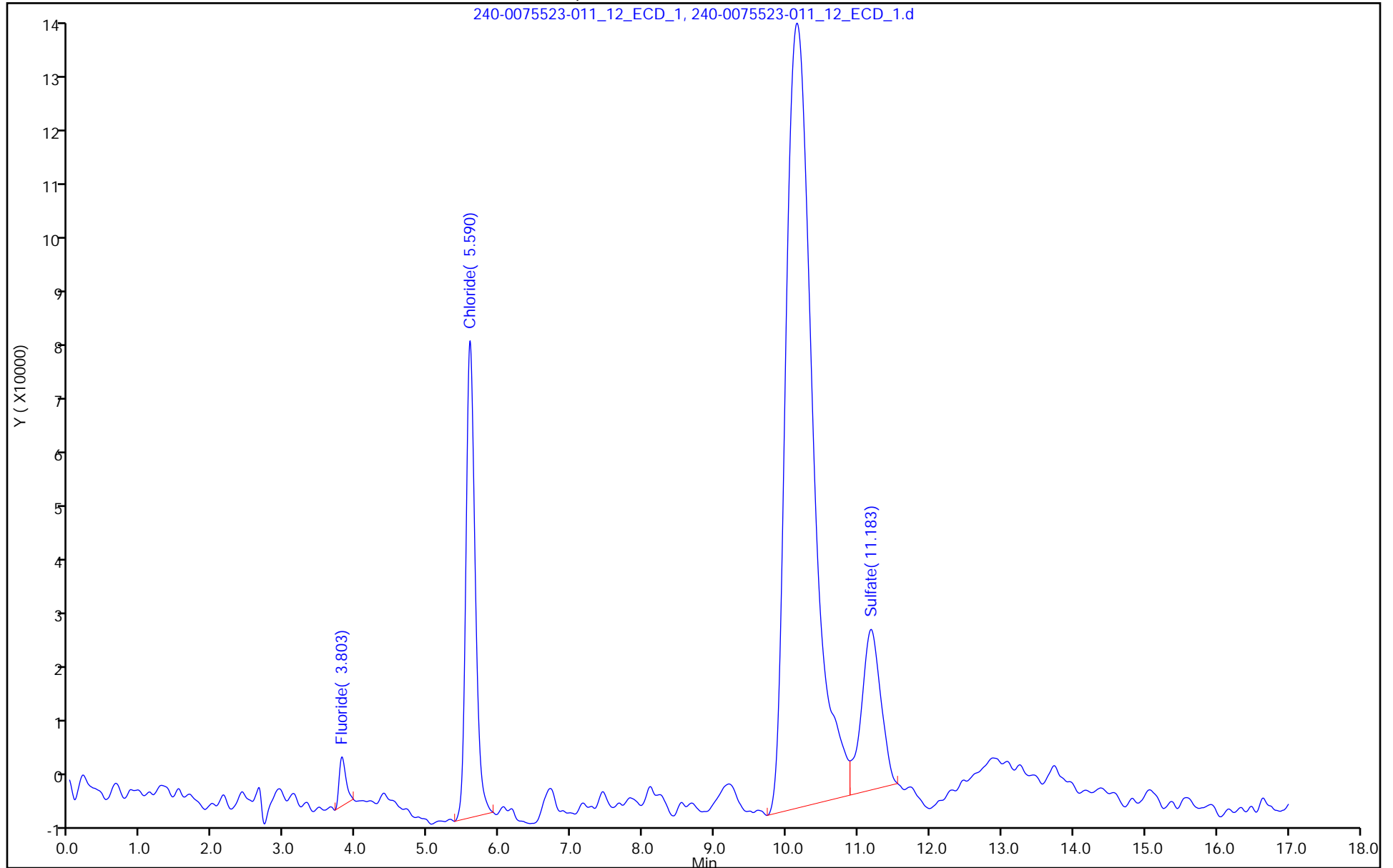
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-001_01_ECD_1.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 15:26:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-001
 Misc. Info.: CCV
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:01:46 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.757	3.770	-0.013	66740116	NC	NC	
2 Chloride	5.413	5.453	-0.040	799663112	NC	NC	
3 Nitrite as N	6.420	6.477	-0.057	93387401	2.50	2.52	
4 Bromide	7.770	7.847	-0.077	69136045	NC	NC	
5 Nitrate as N	8.653	8.740	-0.087	97050837	2.50	2.52	
6 Sulfate	10.263	10.383	-0.120	590584912	NC	NC	
S 7 Nitrate Nitrite as N						5.04	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCCV_00826

Amount Added: 5.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-001_01_ECD_1.d

Injection Date: 21-Jun-2018 15:26:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCV

Worklist Smp#: 1

Client ID:

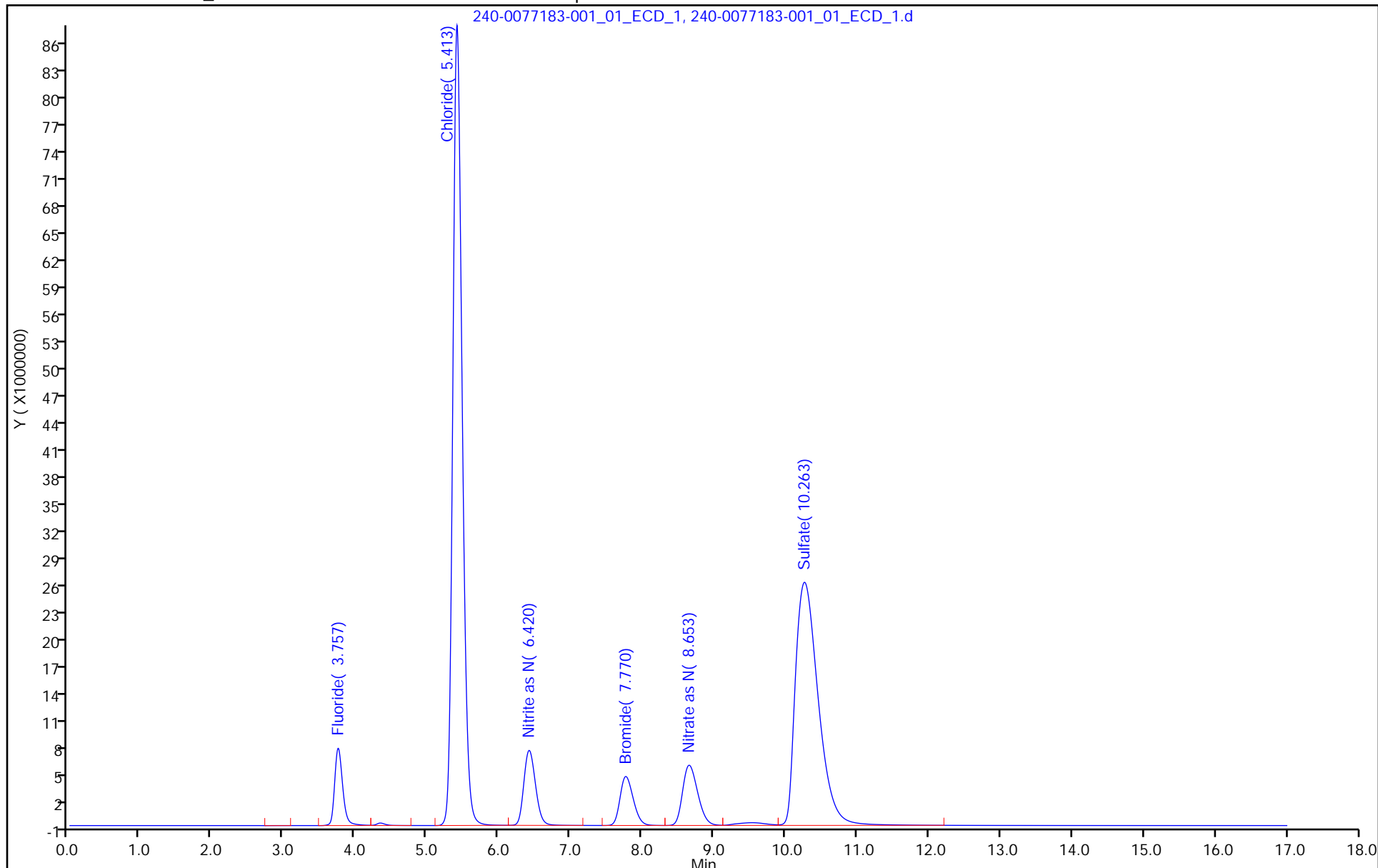
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-002_02_ECD_1.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 15:46:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-002
 Misc. Info.: CCB
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:01:46 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.747	3.770	-0.023	340310			NC
2 Chloride	5.403	5.453	-0.050	386118			NC
3 Nitrite as N		6.477					ND
4 Bromide		7.847					ND
5 Nitrate as N		8.740					ND
6 Sulfate	10.397	10.383	0.014	880687			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-002_02_ECD_1.d

Injection Date: 21-Jun-2018 15:46:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCB

Worklist Smp#: 2

Client ID:

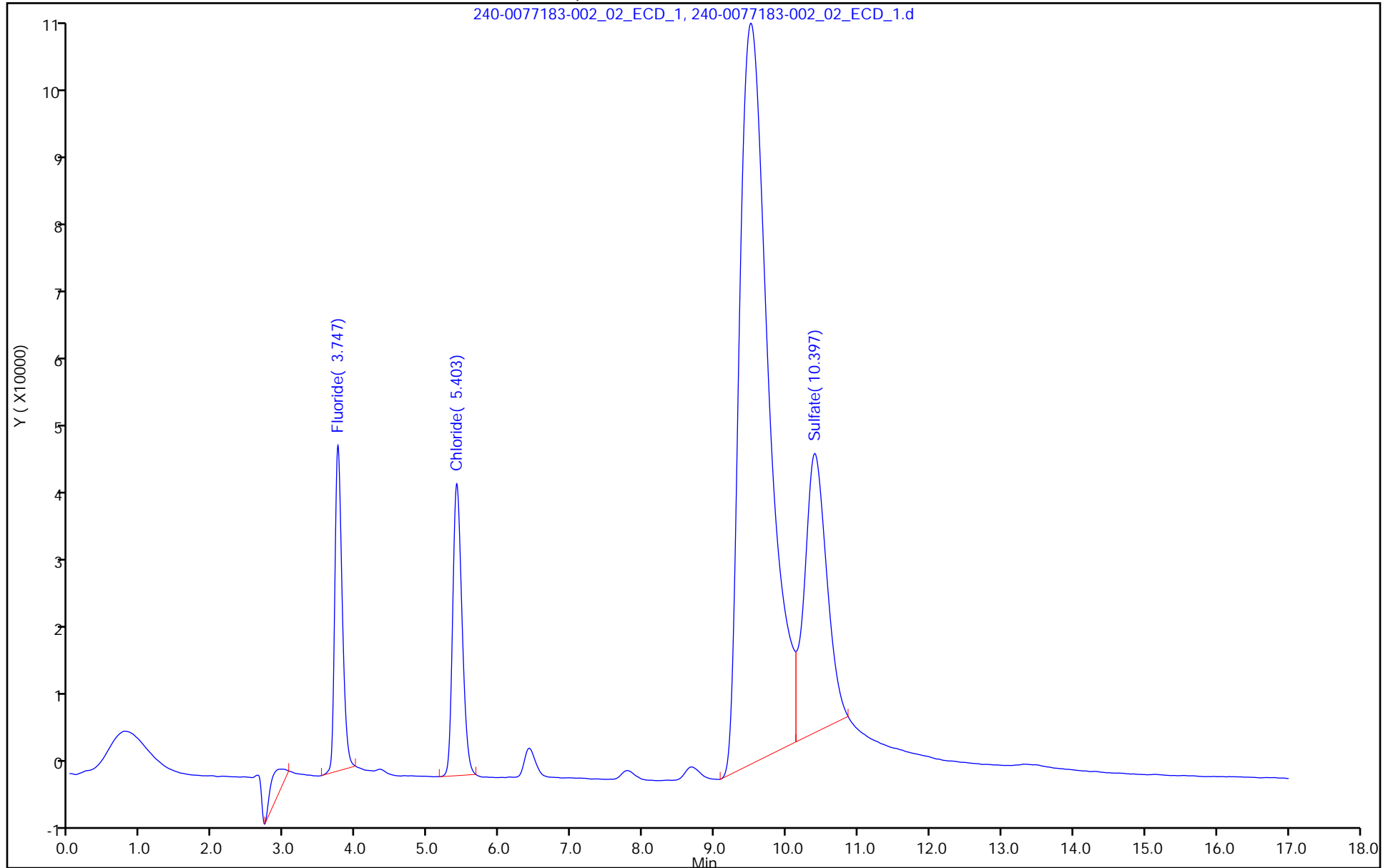
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-003_03_ECD_1.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Jun-2018 16:06:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-003
 Misc. Info.: MB
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:01:46 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.747	3.770	-0.023	106650			NC
2 Chloride	5.403	5.453	-0.050	253506			NC
3 Nitrite as N		6.477					ND
4 Bromide		7.847					ND
5 Nitrate as N		8.740					ND
6 Sulfate	10.400	10.383	0.017	471604			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-003_03_ECD_1.d

Injection Date: 21-Jun-2018 16:06:00

Instrument ID: VERONICA

Operator ID:

Lims ID: MB

Worklist Smp#: 3

Client ID:

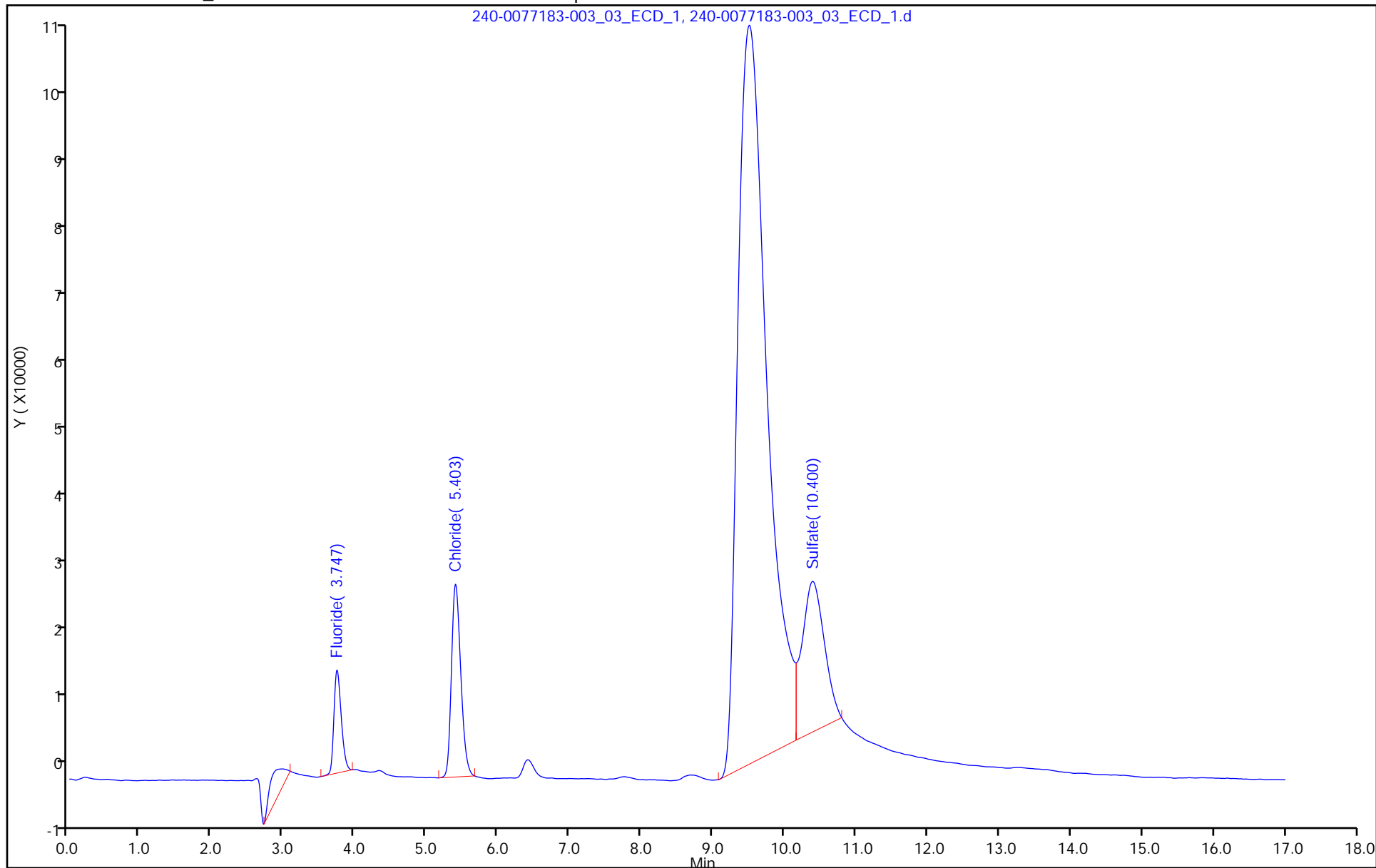
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-004_04_ECD_1.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Jun-2018 16:27:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-004
 Misc. Info.: LCS
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:01:46 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.757	3.770	-0.013	67341304	NC	NC	
2 Chloride	5.417	5.453	-0.036	811303726	NC	NC	
3 Nitrite as N	6.423	6.477	-0.054	89540344	2.50	2.41	
4 Bromide	7.773	7.847	-0.074	70115122	NC	NC	
5 Nitrate as N	8.660	8.740	-0.080	98352784	2.50	2.56	
6 Sulfate	10.287	10.383	-0.096	594781564	NC	NC	

QC Flag Legend

Processing Flags
 NC - Not Calibrated

Reagents:

WCICLCS_00663 Amount Added: 5.00 Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-004_04_ECD_1.d

Injection Date: 21-Jun-2018 16:27:00

Instrument ID: VERONICA

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

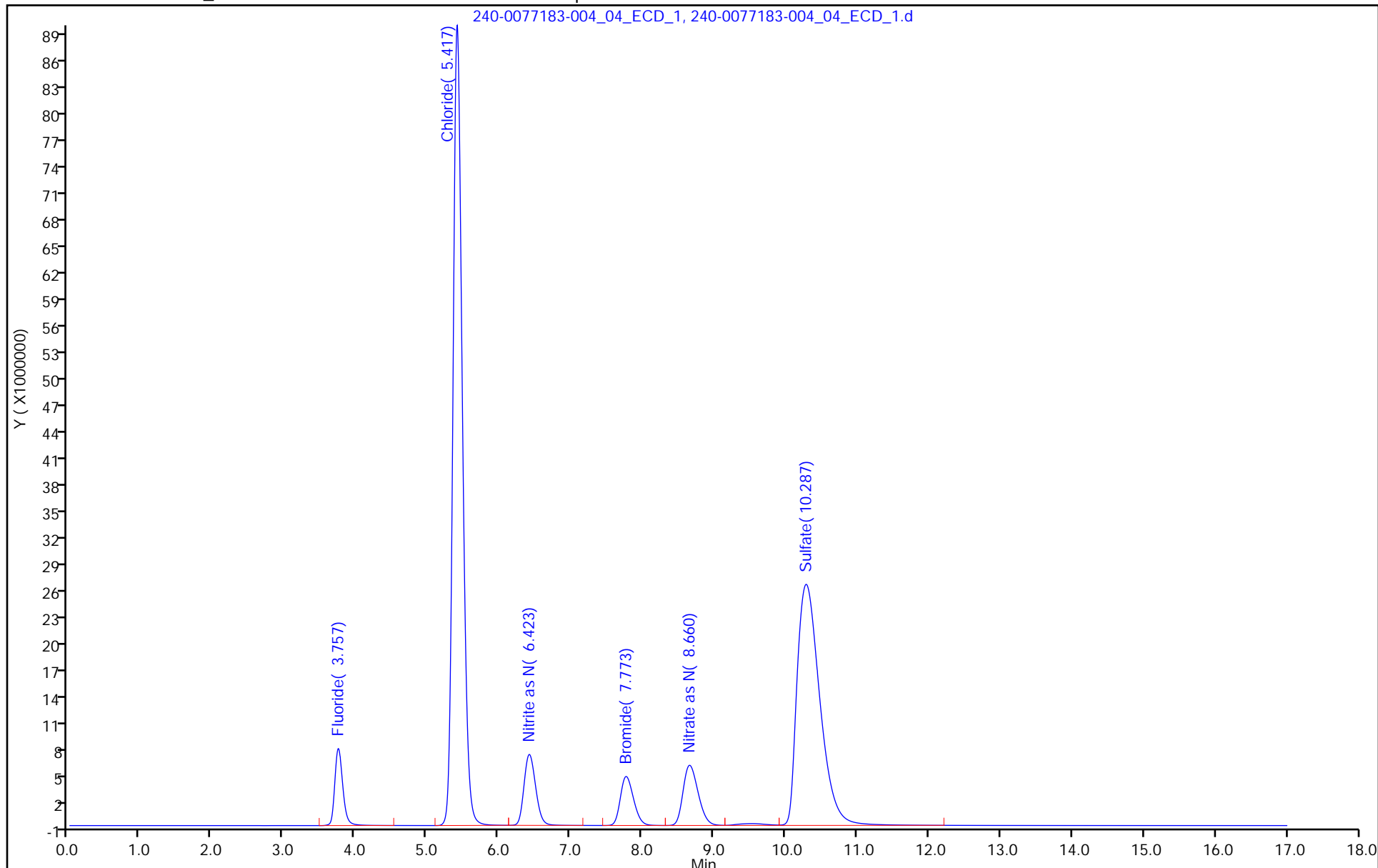
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-013_13_ECD_1.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 19:29:00 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-013
 Misc. Info.: CCV
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:05 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.757	3.770	-0.013	67027945	NC	NC	
2 Chloride	5.417	5.453	-0.036	802032065	NC	NC	
3 Nitrite as N	6.423	6.477	-0.054	93574599	2.50	2.52	
4 Bromide	7.773	7.847	-0.074	69231082	NC	NC	
5 Nitrate as N	8.657	8.740	-0.083	97079740	2.50	2.52	
6 Sulfate	10.273	10.383	-0.110	593459367	NC	NC	
S 7 Nitrate Nitrite as N						5.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCCV_00826

Amount Added: 5.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-013_13_ECD_1.d

Injection Date: 21-Jun-2018 19:29:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCV

Worklist Smp#: 13

Client ID:

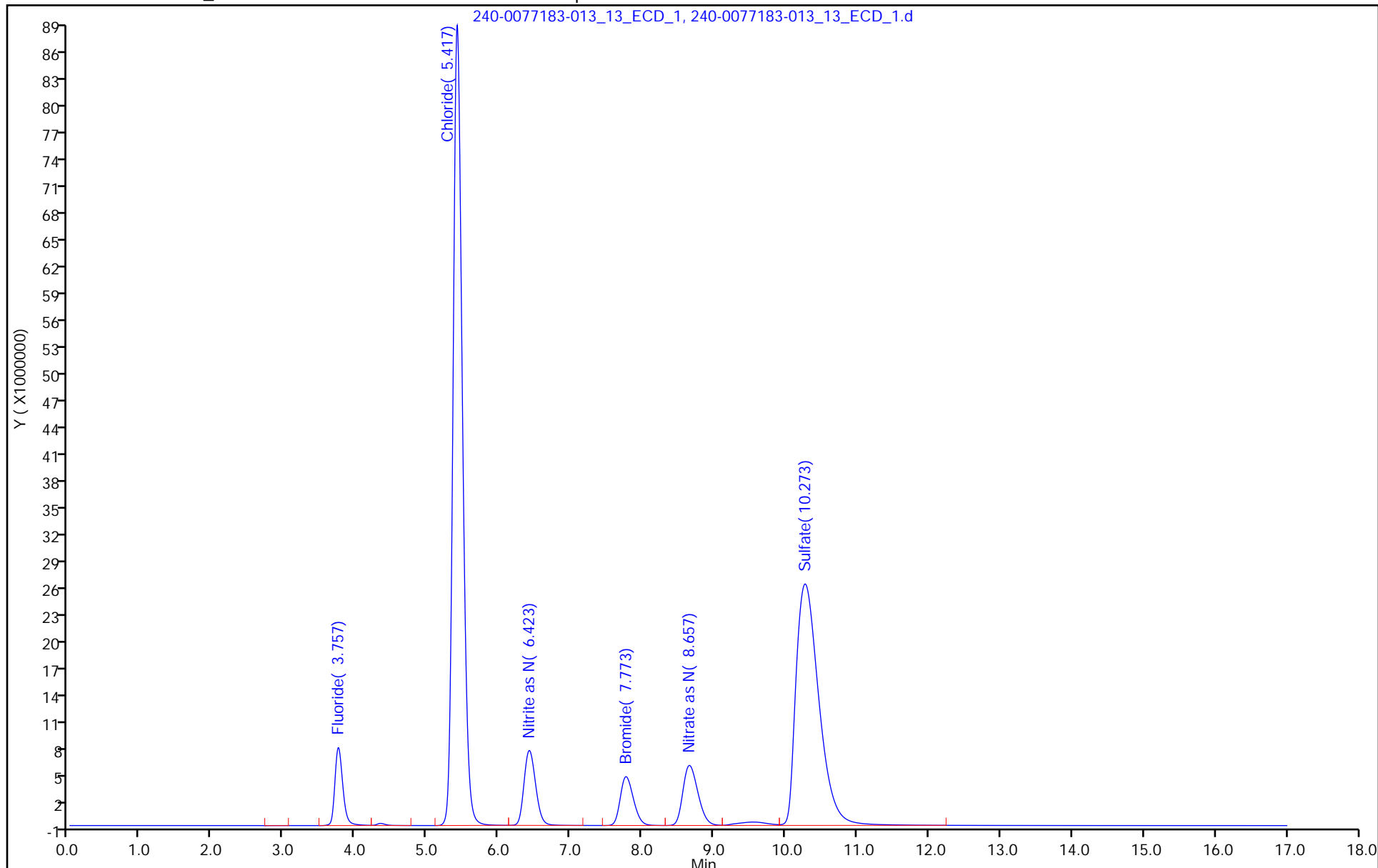
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-014_14_ECD_1.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 19:50:00 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-014
 Misc. Info.: CCB
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:05 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.750	3.770	-0.020	40087			NC
2 Chloride	5.400	5.453	-0.053	552270			NC
3 Nitrite as N		6.477					ND
4 Bromide		7.847					ND
5 Nitrate as N		8.740					ND
6 Sulfate	10.377	10.383	-0.006	667651			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-014_14_ECD_1.d

Injection Date: 21-Jun-2018 19:50:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCB

Worklist Smp#: 14

Client ID:

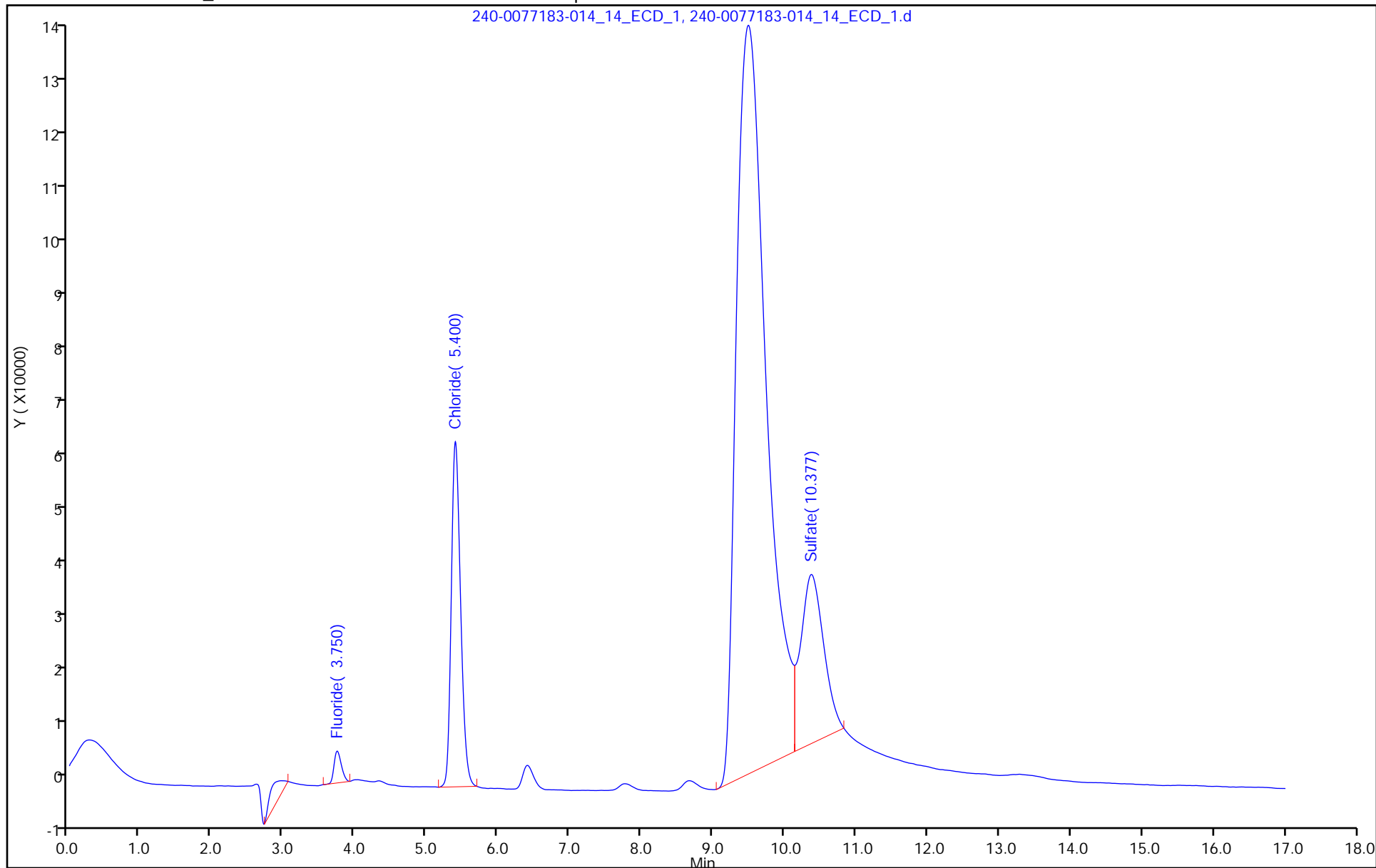
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-025_25_ECD_1.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 23:31:00 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-025
 Misc. Info.: CCV
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:21 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.757	3.770	-0.013	66870899	NC	NC	
2 Chloride	5.413	5.453	-0.040	801609574	NC	NC	
3 Nitrite as N	6.420	6.477	-0.057	93526933	2.50	2.52	
4 Bromide	7.770	7.847	-0.077	69288936	NC	NC	
5 Nitrate as N	8.653	8.740	-0.087	97287934	2.50	2.53	
6 Sulfate	10.260	10.383	-0.123	593513645	NC	NC	
S 7 Nitrate Nitrite as N						5.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCCV_00826

Amount Added: 5.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-025_25_ECD_1.d

Injection Date: 21-Jun-2018 23:31:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCV

Worklist Smp#: 25

Client ID:

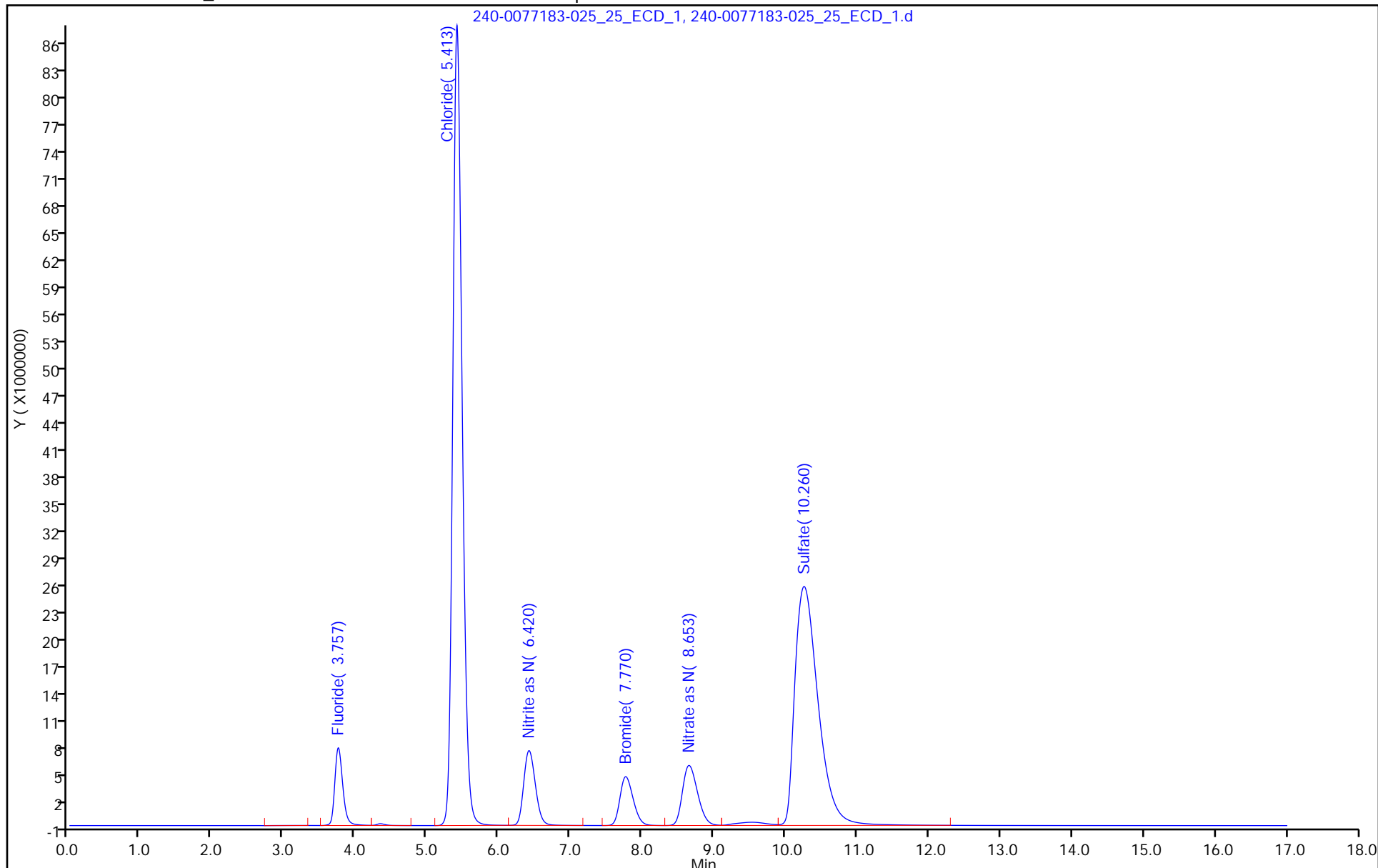
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-026_26_ECD_1.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 23:51:00 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-026
 Misc. Info.: CCB
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:21 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.737	3.770	-0.033	40066			NC
2 Chloride	5.390	5.453	-0.063	426200			NC
3 Nitrite as N		6.477					ND
4 Bromide		7.847					ND
5 Nitrate as N		8.740					ND
6 Sulfate	10.363	10.383	-0.020	787453			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-026_26_ECD_1.d

Injection Date: 21-Jun-2018 23:51:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCB

Worklist Smp#: 26

Client ID:

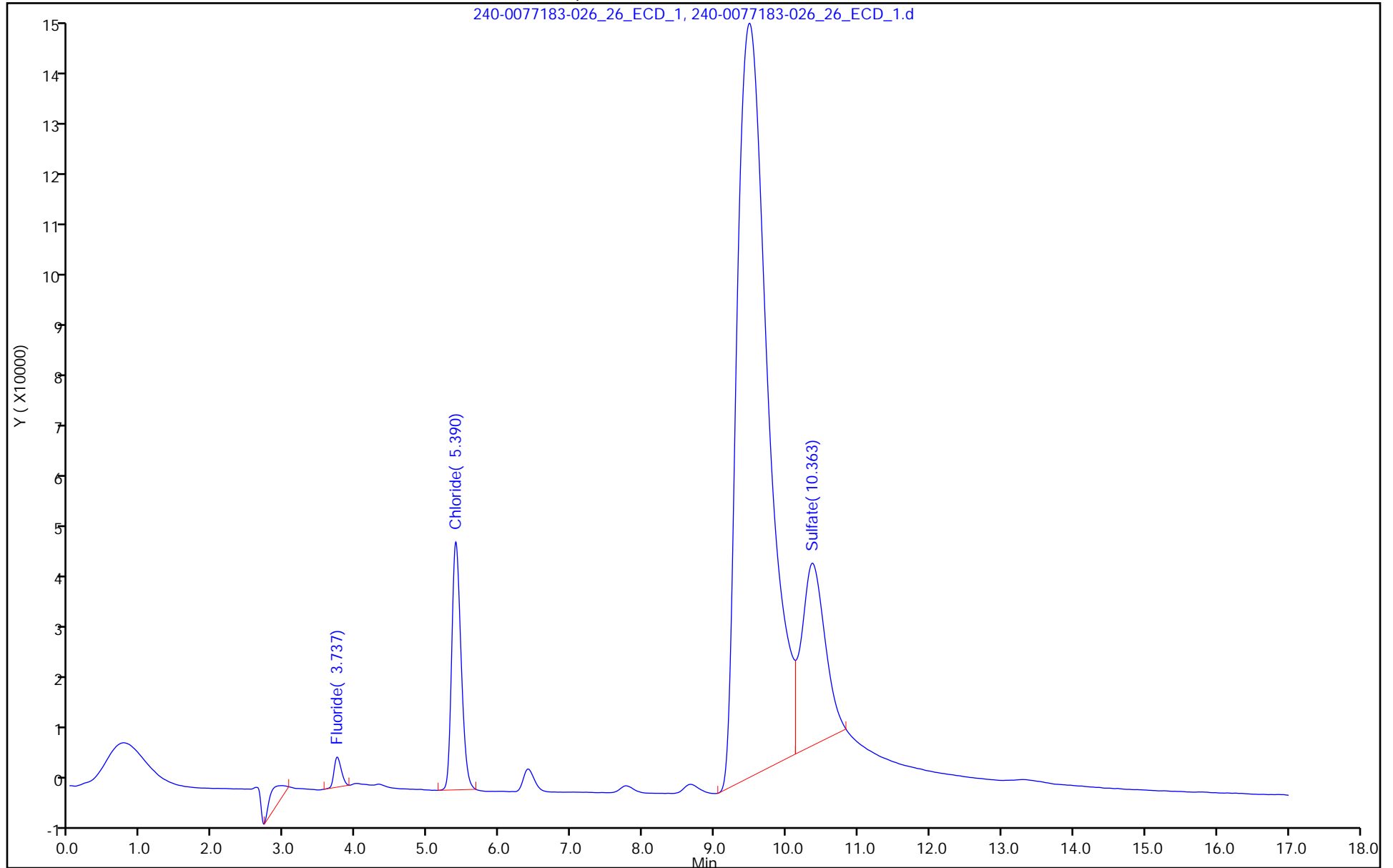
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-031_31_ECD_1.d
 Lims ID: 240-97364-B-1
 Client ID: CBLmw-001-062018-GW
 Sample Type: Client
 Inject. Date: 22-Jun-2018 01:32:00 ALS Bottle#: 0 Worklist Smp#: 31
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-031
 Misc. Info.: 240-97364-B-1
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:21 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
5 Nitrate as N	8.653	8.740	-0.087	2396846	0.0623	

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-031_31_ECD_1.d

Injection Date: 22-Jun-2018 01:32:00

Instrument ID: VERONICA

Operator ID:

Lims ID: 240-97364-B-1

Lab Sample ID: 240-97364-1

Worklist Smp#: 31

Client ID: CBLmw-001-062018-GW

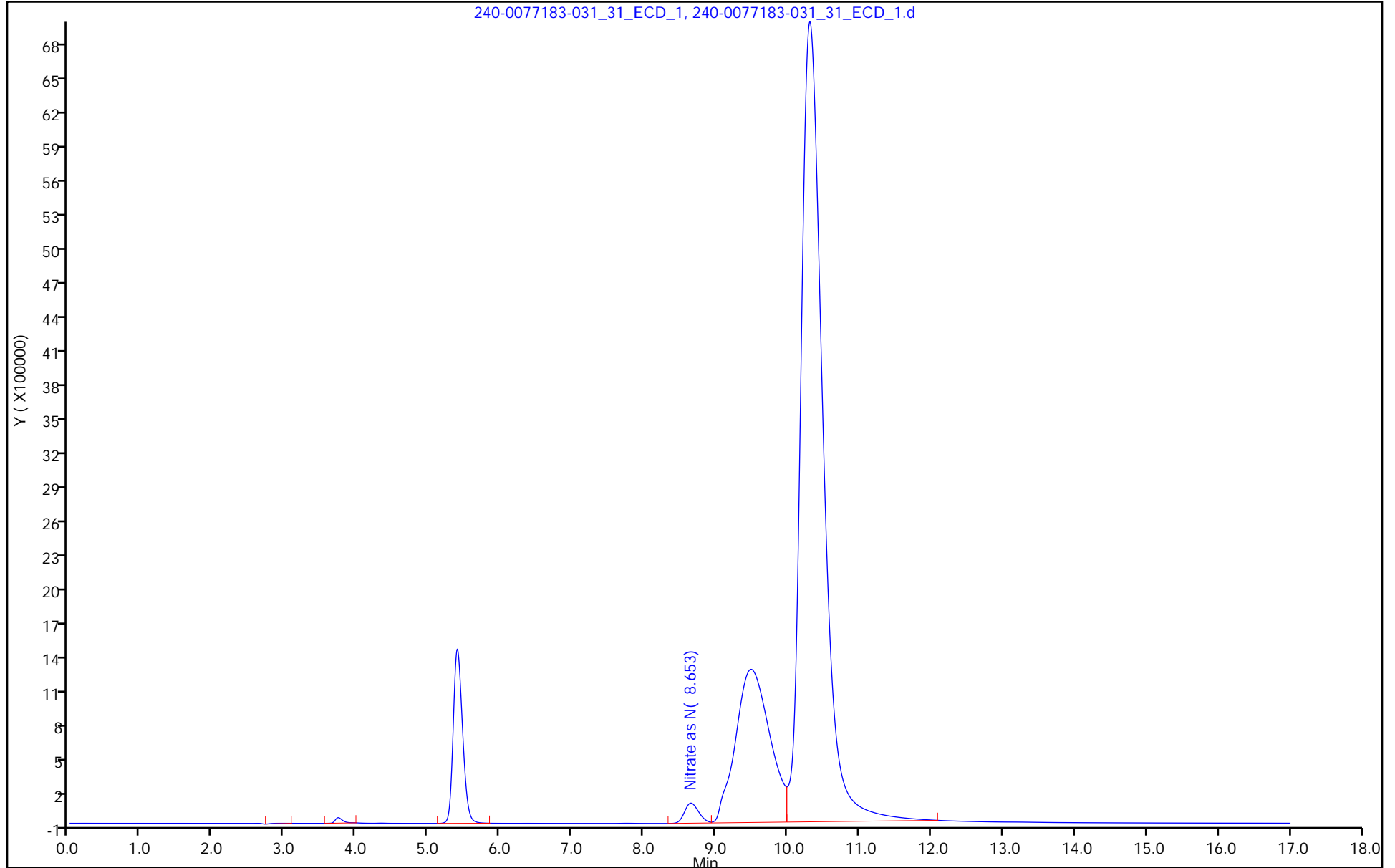
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-032_32_ECD_1.d
 Lims ID: 240-97364-B-2
 Client ID: CBLmw-001-D-062018-GW
 Sample Type: Client
 Inject. Date: 22-Jun-2018 01:52:00 ALS Bottle#: 0 Worklist Smp#: 32
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-032
 Misc. Info.: 240-97364-B-2
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:21 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
5 Nitrate as N	8.643	8.740	-0.097	2386791	0.0620	

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-032_32_ECD_1.d

Injection Date: 22-Jun-2018 01:52:00

Instrument ID: VERONICA

Operator ID:

Lims ID: 240-97364-B-2

Lab Sample ID: 240-97364-2

Worklist Smp#: 32

Client ID: CBLmw-001-D-062018-GW

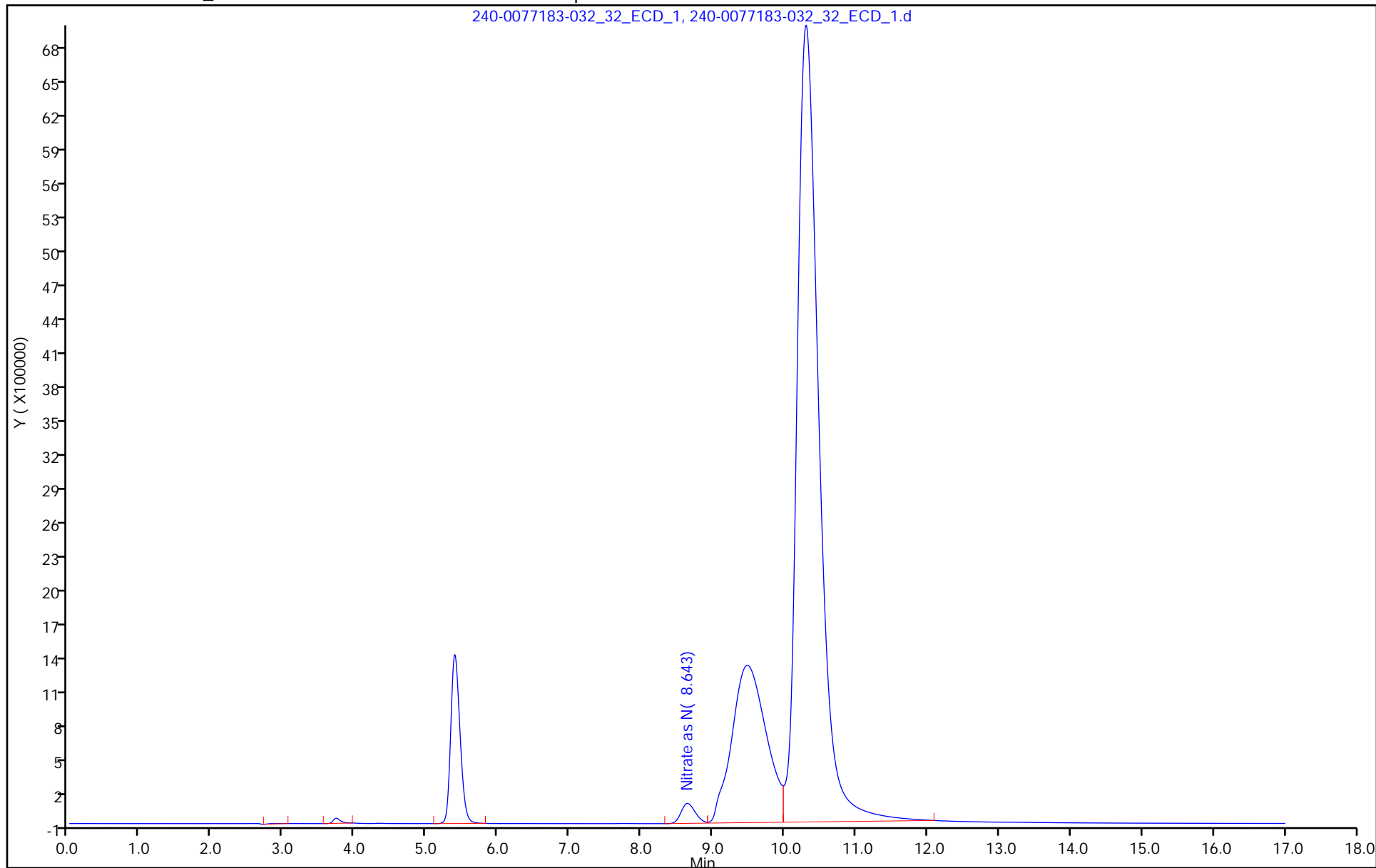
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-033_33_ECD_1.d
 Lims ID: 240-97364-B-3
 Client ID: CBLmw-002-062018-GW
 Sample Type: Client
 Inject. Date: 22-Jun-2018 02:12:00 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-033
 Misc. Info.: 240-97364-B-3
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:21 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
5 Nitrate as N	8.623	8.740	-0.117	45600261	1.19	

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-033_33_ECD_1.d

Injection Date: 22-Jun-2018 02:12:00

Instrument ID: VERONICA

Operator ID:

Lims ID: 240-97364-B-3

Lab Sample ID: 240-97364-3

Worklist Smp#: 33

Client ID: CBLmw-002-062018-GW

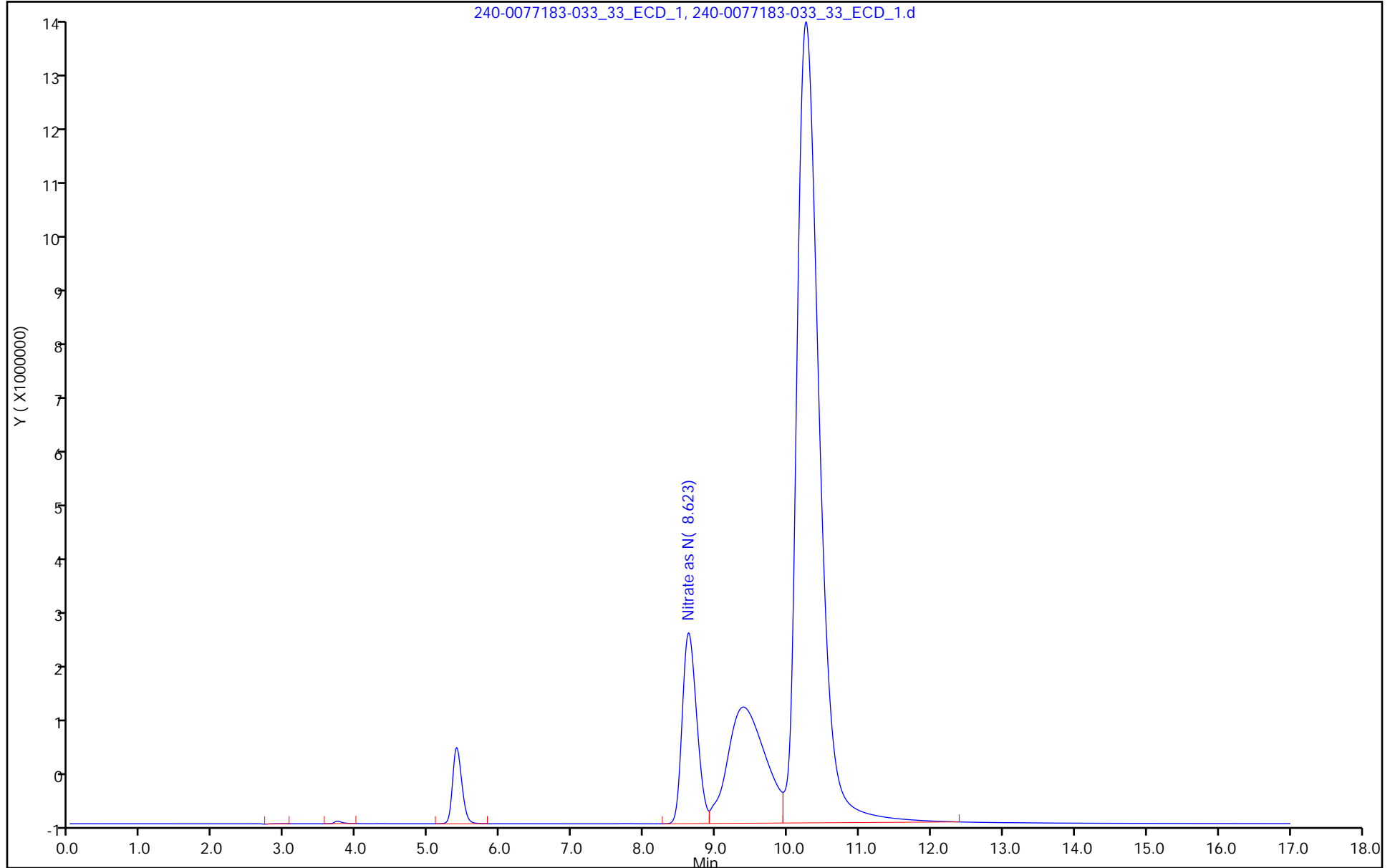
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-037_37_ECD_1.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2018 03:32:00 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-037
 Misc. Info.: CCV
 Operator ID: Instrument ID: VERONICA
 Sublist: chrom-300_Veronica*sub4
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:36 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.757	3.770	-0.013	67095958	NC	NC	
2 Chloride	5.410	5.453	-0.043	802372328	NC	NC	
3 Nitrite as N	6.417	6.477	-0.060	93549829	2.50	2.52	
4 Bromide	7.763	7.847	-0.084	69298583	NC	NC	
5 Nitrate as N	8.647	8.740	-0.093	97371053	2.50	2.53	
6 Sulfate	10.237	10.383	-0.146	594712143	NC	NC	
S 7 Nitrate Nitrite as N						5.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

WCICCCV_00826

Amount Added: 5.00

Units: mL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-037_37_ECD_1.d

Injection Date: 22-Jun-2018 03:32:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCV

Worklist Smp#: 37

Client ID:

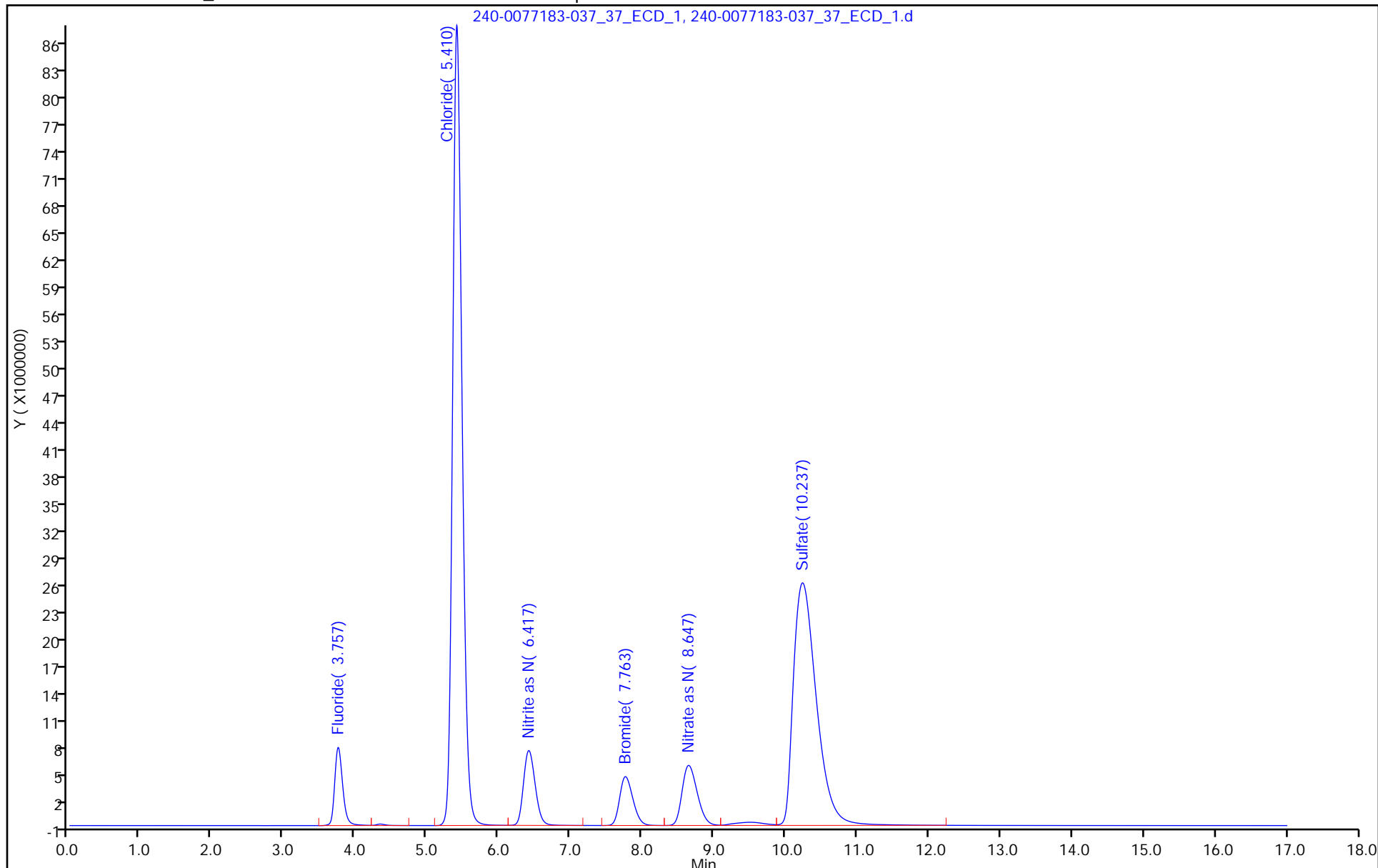
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 300_Veronica

Limit Group: WET IC SH ICAL



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-038_38_ECD_1.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 22-Jun-2018 03:53:00 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 25.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0077183-038
 Misc. Info.: CCB
 Operator ID: Instrument ID: VERONICA
 Method: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\300_Veronica.m
 Limit Group: WET IC SH ICAL
 Last Update: 22-Jun-2018 13:02:36 Calib Date: 03-May-2018 11:25:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\VERONICA\20180503-75523.b\240-0075523-009_10_ECD_1.d
 Column 1 : Det: IC 0001
 Process Host: XAWRK038

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.747	3.770	-0.023	37083			NC
2 Chloride	5.400	5.453	-0.053	432074			NC
3 Nitrite as N		6.477					ND
4 Bromide		7.847					ND
5 Nitrate as N		8.740					ND
6 Sulfate	10.353	10.383	-0.030	752400			NC
S 7 Nitrate Nitrite as N		0.000					ND
10 Nitrite as NO2		0.000					ND
11 Nitrate as NO3		0.000					ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\VERONICA\20180621-77183.b\240-0077183-038_38_ECD_1.d

Injection Date: 22-Jun-2018 03:53:00

Instrument ID: VERONICA

Operator ID:

Lims ID: CCB

Worklist Smp#: 38

Client ID:

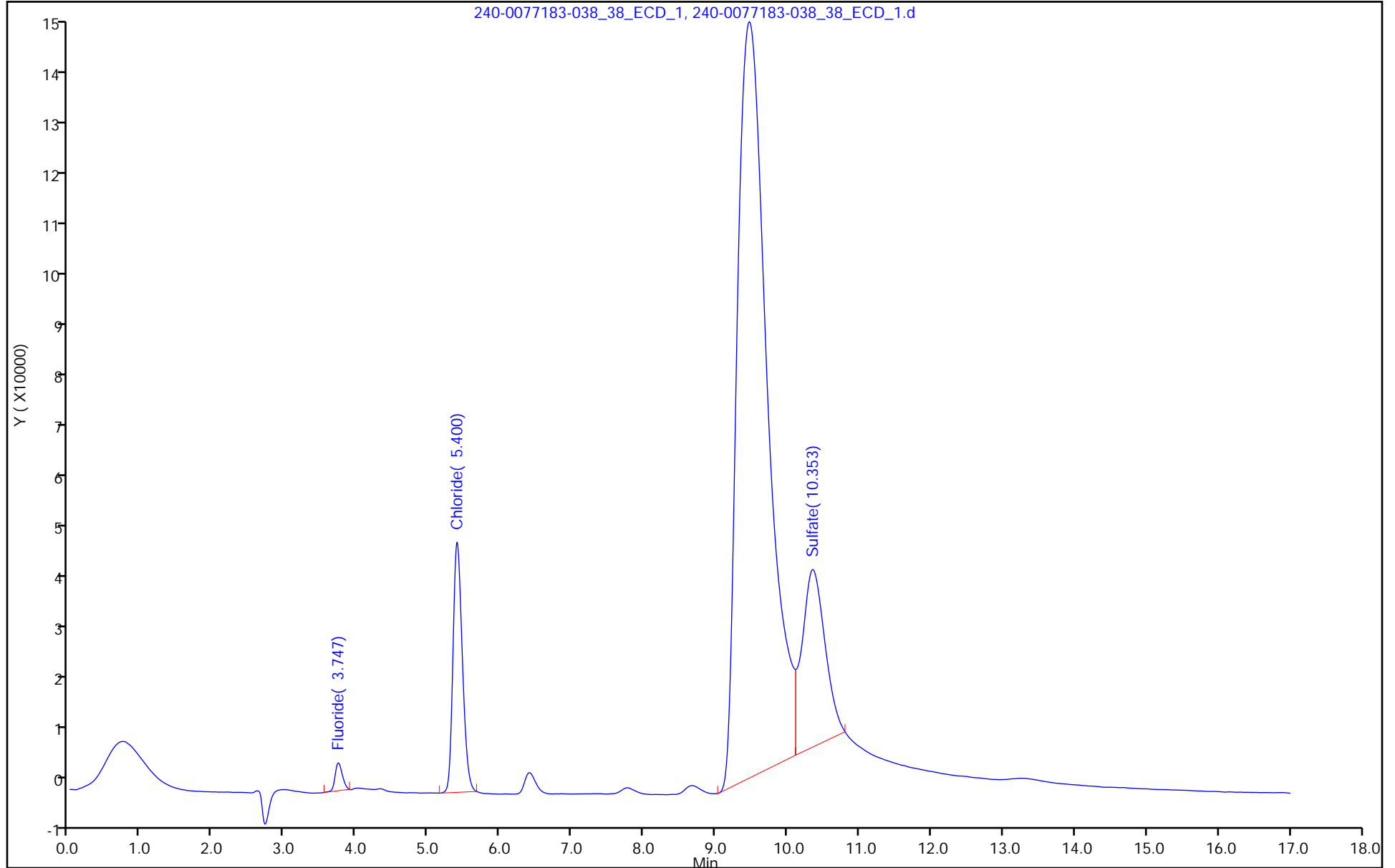
Injection Vol: 25.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0


Method: 300_Veronica

Limit Group: WET IC SH ICAL



Subcontract Data

Shipping and Receiving Documents

Company Name: <u>Cardno</u> Address: <u>1658 Cole Blvd Suite 90</u> City/State/Zip: <u>Golden CO / 80401</u> Phone: <u>934-906-2885</u> Fax: _____ Project Name: <u>Ravenna, OH</u> Site: <u>Ravenna</u> P.O.# _____		Client Contact Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____ Project Manager: _____ Tell/Fax: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below <u>20</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: _____ Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ Date: _____ Carrier: _____		COC No. _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____					
Sample Identification CBLMW-001-062018-GW CBLMW-001-D-062018-GW CBLMW-002-062018-GW		Sample Date 6-20-18 6-20-18 6-20-18		Sample Time 1628 1628 1933		Sample Type (C=Comp, G=Grab) G G G		Matrix W W W		# of Cont. 2 2 2	
Sample Specific Notes: <div style="text-align: center;">  240-97364 Chain of Custody </div>											
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Cooler Temp. (°C): Obs'd: _____ Received by: _____ Date/Time: _____			
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Received in Laboratory by: _____ Date/Time: _____			
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Received in Laboratory by: _____ Date/Time: _____			

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 97364

Client Cardno Site Name _____
 Cooler Received on 6/21/18 Opened on 6/21/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Aerry Burns

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # CANTON Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.2 °C
 IR GUN #36 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were correct bottle(s) used for the test(s) indicated? Yes No
 10. Sufficient quantity received to perform indicated analyses? Yes No
 11. Are these work share samples? Yes No
 If yes, Questions 12-16 have been checked at the originating laboratory.
 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC740840
 13. Were VOAs on the COC? Yes No
 14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:
TB

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Sample Receipt Checklist

Client: Cardno GS, Inc

Job Number: 240-97364-1

Login Number: 97364

List Source: TestAmerica Canton

List Number: 1

Creator: Dolezal, Derren S

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	