

## **Appendix K**

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### **Phase II RI Analytical Laboratory Reports**

December 6, 2010

Analytical Report for Service Request No: K1010795

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Hegler Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the revised report pages for the samples submitted to our laboratory on September 30, 2010. For your reference, these analyses have been assigned our service request number K1010795.

TDS results for "Equipment Blank" corrected.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3266. You may also contact me via Email at [MShelton@caslab.com](mailto:MShelton@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Mike Shelton  
Project Chemist

MS/lb

Page 1 of 14**REVISED**

10:23 am, Dec 07, 2010



COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent Service Request No.: K1010795  
Project: Hegler Kronquist Date Received: 9/30/10  
Sample Matrix: Water

CASE NARRATIVE (Addendum 12/6/10)

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

**General Chemistry Parameters**

**Total Dissolved Solids by SM 2540C:**

The analysis of sample "Equipment Blank" was initially performed on 10/4/2010. The result reported was not consistent with the nature of the sample. The reanalysis of the sample was performed past the recommended holding time. The results from the reanalysis were reported. The data was flagged to indicate the holding time violation.

The first result reported for this sample was confirmed to be reported erroneously high due to analyst error. To confirm that the error was isolated to the Equipment blank, the other two samples submitted were also re-analyzed. These results were very close to the original results reported.

Approved by \_\_\_\_\_

*Mike Sheh*

Date \_\_\_\_\_

*12/6/10*

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** Exponent  
**Project:** Hegler Kronquist/0907194.000.0601  
**Sample Matrix:** Water

**Service Request:** K1010795  
**Date Collected:** 9/29/10  
**Date Received:** 9/30/10

**Analysis Method:** SM 2540 C

**Units:** mg/L  
**Basis:** NA

**Solids, Total Dissolved**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result Q</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>	<b>Note</b>
MW-6	K1010795-001	<b>545</b>	10	10	1	NA	10/4/10 11:00	
MW-5	K1010795-002	<b>496</b>	14	14	1	NA	10/4/10 11:00	
EQUIPMENT BLANK	K1010795-003	ND U	5.0	5.0	1	NA	12/1/10 10:30	*
Method Blank	K1010795-MB1	ND U	5.0	5.0	1	NA	10/4/10 11:00	
Method Blank	K1010795-MB2	ND U	5.0	5.0	1	NA	10/4/10 11:00	
Method Blank	K1010795-MB3	ND U	5.0	5.0	1	NA	12/1/10 10:30	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Hegler Kronquist/0907194.000.0601  
 Sample Matrix: Water

Service Request: K1010795  
 Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/4/10

Replicate Sample Summary  
 General Chemistry Parameters

Sample Name: Batch QC  
 Lab Code: K1010680-003

Units: mg/L  
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample		RPD	RPD Limit
					K1010680-003DUP1 Result	Average		
Solids, Total Dissolved	SM 2540 C	14	14	1780	1690	1740	5	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Hegler Kronquist/0907194.000.0601  
 Sample Matrix: Water

Service Request: K1010795  
 Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/4/10

Replicate Sample Summary  
 General Chemistry Parameters

Sample Name: Batch QC  
 Lab Code: K1010735-002

Units: mg/L  
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample		RPD	RPD Limit
					K1010735-002DUP4 Result	Average		
Solids, Total Dissolved	SM 2540 C	20	20	3390	3460	3430	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** Exponent  
**Project:** Hegler Kronquist/0907194.000.0601  
**Sample Matrix:** Water

**Service Request:** K1010795  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 10/ 4/10

**Replicate Sample Summary  
 General Chemistry Parameters**

**Sample Name:** Batch QC  
**Lab Code:** K1010759-006

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample K1010759-006DUP5		RPD	RPD Limit
					Result	Average		
Solids, Total Dissolved	SM 2540 C	20	20	3410	3260	3340	5	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** Exponent  
**Project:** Hegler Kronquist/0907194.000.0601  
**Sample Matrix:** Water

**Service Request:** K1010795  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 10/ 4/10

**Replicate Sample Summary  
 General Chemistry Parameters**

**Sample Name:** Batch QC  
**Lab Code:** K1010785-009

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample K1010785-009DUP6		RPD	RPD Limit
					Result	Average		
Solids, Total Dissolved	SM 2540 C	20	20	1730	1880	1810	9	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** Exponent  
**Project:** Hegler Kronquist/0907194.000.0601  
**Sample Matrix:** Water

**Service Request:** K1010795  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 12/ 1/10

**Replicate Sample Summary  
 General Chemistry Parameters**

**Sample Name:** Batch QC  
**Lab Code:** K1013253-003

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QC DUP Duplicate Sample		RPD	RPD Limit
					K1013253-003	DUP13		
Solids, Total Dissolved	SM 2540 C	10	10	548	559	554	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** Exponent  
**Project:** Hegler Kronquist/0907194.000.0601  
**Sample Matrix:** Water

**Service Request:** K1010795  
**Date Analyzed:** 10/4/10

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:** mg/L  
**Basis:** NA

Analyte Name	Method	Lab Control Sample K1010795-LCS2			% Rec Limits
		Result	Spike Amount	% Rec	
Solids, Total Dissolved	SM 2540 C	1080	1090	99	83 - 117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
Project: Hegler Kronquist/0907194.000.0601  
Sample Matrix: Water

Service Request: K1010795  
Date Analyzed: 10/4/10

Lab Control Sample Summary  
General Chemistry Parameters

Units: mg/L  
Basis: NA

Analyte Name	Method	Lab Control Sample K1010795-LCS3			% Rec Limits
		Result	Spike Amount	% Rec	
Solids, Total Dissolved	SM 2540 C	1170	1090	108	83 - 117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
Project: Hegler Kronquist/0907194.000.0601  
Sample Matrix: Water

Service Request: K1010795  
Date Analyzed: 12/ 1/10

Lab Control Sample Summary  
General Chemistry Parameters

Units: mg/L  
Basis: NA

Analyte Name	Method	Lab Control Sample K1010795-LCS4			% Rec Limits
		Result	Spike Amount	% Rec	
Solids, Total Dissolved	SM 2540 C	1060	1090	97	83 - 117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Original  
Work Request # (K13253, K13267, K10795)

227420

Tier: II      II      III

Date Analyzed: 12/1/10

Analyst: KC

Analysis: TDS

K1010795

### DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes/no/NA
- 2. Holding times met for all analyses and for all samples?  yes/no/NA
- 3. Are calculations correct?  yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
- 5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
- 6. Are all service requests that apply attached?  yes/no/NA
- 7. Are all samples labelled correctly?  yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
- 9. Are detection limits and units reported correctly?  yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
- 11. Is the unused space on the benchsheet crossed out?  yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

#### COMMENTS:

K1010795 1-3, samples were reanalyzed past hold for confirmation.  Added to SL Run BDK 12/2/10

Final Approved by: BDK Date: 12/2/10 DO REPORT

~~K1010795-003 needs to be reported to client not in StarLMS report.~~

# Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: KCUEVAS

Analysis Lot: 227420

Method/Testcode: SM 2540 C/TDS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1010795-003	Solids, Total Dissolved	N/A		Water	1.00 mg/L	200 mL	5.0 mg/L U	1	5.0	5.0			12/1/10 10:30:00	N III
1013253-003	Solids, Total Dissolved	N/A		Water	548.00 mg/L	200 mL	548 mg/L	1	5.0	5.0			12/1/10 10:30:00	Y V
1013253-004	Solids, Total Dissolved	N/A		Water	549.30 mg/L	75 mL	549 mg/L	1	14	14			12/1/10 10:30	N V
1013267-001	Solids, Total Dissolved	N/A		Water	49.00 mg/L	200 mL	49.0 mg/L	1	5.0	5.0			12/1/10 10:30	N II
Q1013168-01	Solids, Total Dissolved	DUP	K1013253-003	Water	559.00 mg/L	100 mL	559 mg/L	1	10	10		2	12/1/10 10:30	N V
Q1013168-02	Solids, Total Dissolved	MB		Water	-1.50 mg/L	200 mL	5.0 mg/L U	1	5.0	5.0			12/1/10 10:30	N V
Q1013168-03	Solids, Total Dissolved	LCS		Water	1058.00 mg/L	50 mL	1060 mg/L	1	20	20	97		12/1/10 10:30	N V

BDC

12/2/10

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



November 12, 2010

Analytical Report for Service Request No: K1010795

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglur Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on September 30, 2010. For your reference, these analyses have been assigned our service request number K1010795.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [MShelton@caslab.com](mailto:MShelton@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Mike Shelton  
Project Chemist

MS/ln

Page 1 of 414

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition:* Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition:* Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition:* Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.



**Columbia Analytical Services, Inc.**  
**Kelso, WA**  
**State Certifications, Accreditations, and Licenses**

<b>Program</b>	<b>Number</b>
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



## **Case Narrative**

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent  
Project: Hegler Kronquist  
Sample Matrix: Water

Service Request No.: K1010795  
Date Received: 9/30/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two water samples and a equipment blank were received for analysis at Columbia Analytical Services on 9/30/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

**Matrix Spike Recovery Exceptions:**

The control criteria for matrix spike recovery of Calcium for sample MW-6 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by



Date

11/12/10

## **Chain of Custody**



**CHAIN OF CUSTODY**

PROJECT NAME: HEVAR KENQUIST  
 PROJECT NUMBER: 0907194.0030.DR01  
 PROJECT MANAGER: MELISSA VLAMBI  
 COMPANY ADDRESS: 15375 SE 30th Pl  
 CITY/STATE/ZIP: SUITE 250  
 E-MAIL ADDRESS: REUBEN@EXPONENT.COM  
 PHONE # (425) 519-8774 FAX # (425) 519-8759  
 SAMPLE'S SIGNATURE: KEVIN KUEBEL

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
MM-10	9/20/10	1005		W		RUN
MM-5	9/29/10	1230		W		NO2 and
EQUIPMENT BLANK	9/29/10	1330		W		NO3
						WITHIN
						48-hr
						Hold

REPORT REQUIREMENTS  
 I. Routine Report: Method Blank, Surrogate, as required  
 II. Report Dup., MS, MSD as required  
 III. Data Validation Report (includes all raw data)  
 IV. CLP Deliverable Report  
 V. EDD

INVOICE INFORMATION  
 P.O. #: 5406 AS  
 BILL TO: ARAB

TURNAROUND REQUIREMENTS  
 24 hr. \_\_\_\_\_ 48 hr. \_\_\_\_\_  
 5 Day Standard (10-15 working days)  
 Provide FAX Results \_\_\_\_\_

SPECIAL INSTRUCTIONS/COMMENTS:  
 Containers Serial # 19659  
 BAR CODE - TD24933

RELINQUISHED BY: [Signature] Date/Time: 9/20/10 1545 Firm: AKCADIS  
 RECEIVED BY: [Signature] Date/Time: 9/30/10 0845 Firm: CMS

RELINQUISHED BY: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Firm: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Firm: \_\_\_\_\_

Columbia Analytical Services, Inc.  
Cooler Receipt and Preservation Form

PC 145

Client / Project: EXPONENT Service Request K10 10795

Received: 9/30/10 Opened: 9/30/10 By: SAV

- Samples were received via? Mail  Fed-Ex  UPS  DHL  PDX  Courier  Hand Delivered
- Samples were received in: (circle) Cooler  Box  Envelope  Other  NA
- Were custody seals on coolers? NA  Y  N  If yes, how many and where? one, front
- If present, were custody seals intact?  Y  N  If present, were they signed and dated?  Y  N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
<u>-0.6</u>	<u>1.2</u>	<u>299</u>			<u>8726 8546 5645</u>		

- Packing material used. Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Sleeves  Other
- Were custody papers properly filled out (ink, signed, etc.)? NA  Y  N
- Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA  Y  N
0. Were all sample labels complete (i.e analysis, preservation, etc.)? NA  Y  N
1. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA  Y  N
2. Were appropriate bottles/containers and volumes received for the tests indicated? NA  Y  N
3. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA  Y  N
4. Were VOA vials received without headspace? *Indicate in the table below.*  NA  Y  N
5. Was C12/Res negative?  NA  Y  N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Out of	Head-	Broke	pH	Reagent	Volume	Reagent Lot	Initials	Time
	Bottle Type	Temp	space				added	Number		

**SHORT HOLD TIME**

Notes, Discrepancies, & Resolutions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **General Chemistry Parameters**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Chloride

Analysis Method 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.40	0.06	2	10/06/10 22:47	15.6	
MW-5	K1010795-002	0.40	0.06	2	10/06/10 22:58	19.4	
EQUIPMENT BLANK	K1010795-003	0.40	0.06	2	10/07/10 00:18	ND	
Method Blank	K1010795-MB	0.20	0.03	1	10/06/10 15:19	ND	
Method Blank	K1010795-MB	0.20	0.03	1	10/07/10 04:19	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011008-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	300.0	0.40	0.80	0.80	0.80	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011079-007DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	300.0	0.40	2.46	2.52	2.49	2	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011008-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Chloride	300.0	0.40	4.00	0.80	4.47	92	80-120	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Chloride	300.0	0.40	4.00	2.46	6.34	97	80-120	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011008-001MS K1011008-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	0.40	4.00	4.00	0.80	4.47	4.53	92	93	80-120	1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011079-007MS K1011079-007DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	0.40	4.00	4.00	2.46	6.34	6.52	97	102	80-120	3	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010795-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	NONE	300.0	5.00	4.93	99	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Chloride	NONE	300.0	5.00	4.96	99	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.74	95
CCV2 Result	10/6/2010	5.00	4.75	95
CCV3 Result	10/6/2010	5.00	4.78	96
CCV4 Result	10/6/2010	5.00	4.80	96
CCV5 Result	10/6/2010	5.00	4.74	95
CCV6 Result	10/7/2010	5.00	4.75	95
CCV7 Result	10/7/2010	5.00	4.77	95
CCV8 Result	10/7/2010	5.00	4.80	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** 09/29/10  
**Date Received :** 09/30/10

Fluoride

Analysis Method 300.0  
 Test Notes :

Units : mg/L  
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.40	0.01	2	10/06/10 22:47	0.35	J
MW-5	K1010795-002	0.40	0.01	2	10/06/10 22:58	0.46	
EQUIPMENT BLANK	K1010795-003	0.40	0.01	2	10/07/10 00:18	ND	
Method Blank	K1010795-MB	0.20	0.01	1	10/07/10 04:19	ND	
Method Blank	K1010795-MB	0.20	0.01	1	10/06/10 15:19	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010966-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Fluoride	300.0	0.40	0.94	0.94	0.94	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010966-002MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Fluoride	300.0	0.40	4.00	0.94	5.59	116	80-120	

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**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010966-002MS K1010966-002DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Fluoride	NONE	300.0	0.40	4.00	4.00	0.94	5.59	5.57	116	116	80-120	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010795-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Fluoride	NONE	300.0	11.0	11.9	108	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	5.29	106
CCV2 Result	10/6/2010	5.00	5.32	106
CCV3 Result	10/6/2010	5.00	5.27	105
CCV4 Result	10/6/2010	5.00	5.34	107
CCV5 Result	10/6/2010	5.00	5.25	105
CCV6 Result	10/7/2010	5.00	5.29	106
CCV7 Result	10/7/2010	5.00	5.25	105
CCV8 Result	10/7/2010	5.00	5.28	106



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** 09/29/10  
**Date Received :** 09/30/10

Sulfate

Analysis Method 300.0  
 Test Notes :

Units : mg/L  
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	1.0	0.1	5	10/07/10 12:08	27.1	
MW-5	K1010795-002	2.0	0.1	10	10/07/10 12:20	43.6	
EQUIPMENT BLANK	K1010795-003	0.40	0.02	2	10/07/10 00:18	ND	
Method Blank	K1010795-MB	0.20	0.01	1	10/07/10 09:16	ND	
Method Blank	K1010795-MB	0.20	0.01	1	10/06/10 15:19	ND	
Method Blank	K1010795-MB	0.20	0.01	1	10/07/10 04:19	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011079-007DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	300.0	0.40	3.18	3.17	3.18	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011162-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	300.0	0.40	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011079-007MS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Sulfate	300.0	0.40	4.00	3.18	7.27	102	80-120	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011162-003MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Sulfate	300.0	1.0	10.0	ND	9.8	98	80-120	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011162-003MS K1011162-003DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	NONE	300.0	1.0	10.0	10.0	ND	9.8	9.6	98	96	80-120	1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Sulfate	NONE	300.0	5.00	5.07	101	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

Client : Exponent  
 Project Name : Hegler Kronquist  
 Project Number : 0907194.000.0601  
 Sample Matrix : WATER

Service Request : K1010795  
 Date Collected : NA  
 Date Received : NA  
 Date Prepared : NA  
 Date Analyzed : 10/07/10

Laboratory Control Sample Summary  
 Inorganic Parameters

Sample Name : Lab Control Sample  
 Lab Code : K1010795-LCS  
 Test Notes :

Units : mg/L  
 Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Sulfate	NONE	300.0	5.00	5.14	103	90-110	
Sulfate	NONE	300.0	5.00	4.99	100	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.84	97
CCV2 Result	10/6/2010	5.00	4.87	97
CCV3 Result	10/6/2010	5.00	4.83	97
CCV4 Result	10/6/2010	5.00	4.88	98
CCV5 Result	10/6/2010	5.00	4.83	97
CCV1 Result	10/7/2010	5.00	4.89	98
CCV2 Result	10/7/2010	5.00	4.94	99
CCV3 Result	10/7/2010	5.00	4.90	98
CCV4 Result	10/7/2010	5.00	4.91	98
CCV5 Result	10/7/2010	5.00	4.91	98
CCV6 Result	10/7/2010	5.00	4.86	97
CCV6 Result	10/7/2010	5.00	4.89	98
CCV7 Result	10/7/2010	5.00	4.83	97
CCV7 Result	10/7/2010	5.00	4.86	97
CCV8 Result	10/7/2010	5.00	4.84	97
CCV8 Result	10/8/2010	5.00	4.87	97
CCV9 Result	10/8/2010	5.00	4.82	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB1 Result	10/7/2010	0.20	ND
CCB2 Result	10/7/2010	0.20	ND
CCB3 Result	10/7/2010	0.20	ND
CCB4 Result	10/7/2010	0.20	ND
CCB5 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND
CCB8 Result	10/8/2010	0.20	ND
CCB9 Result	10/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Ammonia as Nitrogen, Dissolved

Analysis Method 350.1  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.050	0.020	1	10/13/10 10:10	ND	
MW-5	K1010795-002	0.050	0.020	1	10/13/10 10:10	ND	
EQUIPMENT BLANK	K1010795-003	0.050	0.020	1	10/13/10 10:10	ND	
Method Blank	K1010795-MB	0.050	0.020	1	10/13/10 10:10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 9/29/2010  
Date Received : 9/30/2010  
Date Prepared : NA  
Date Analyzed : 10/13/10

Duplicate Summary  
Inorganic Parameters

Sample Name : MW-6  
Lab Code : K1010795-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen, Dissolved	350.1	0.050	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

Client : Exponent  
 Project Name : Hegler Kronquist  
 Project Number : 0907194.000.0601  
 Sample Matrix : WATER

Service Request : K1010795  
 Date Collected : 9/29/2010  
 Date Received : 9/30/2010  
 Date Prepared : NA  
 Date Analyzed : 10/13/10

Matrix Spike Summary  
 Inorganic Parameters

Sample Name : MW-6  
 Lab Code : K1010795-001MS  
 Test Notes :

Units : mg/L  
 Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Ammonia as Nitrogen, Dissolved	350.1	0.050	2.00	ND	2.04	102	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** 9/29/2010  
**Date Received :** 9/30/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** MW-6 Units : mg/L  
**Lab Code :** K1010795-001MS K1010795-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Ammonia as Nitrogen, Dissolved	NONE	350.1	0.050	2.00	2.00	ND	2.04	2.04	102	102	90-110	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/13/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010795-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen, Dissolved	NONE	350.1	14.3	14.6	102	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Hegler Kronquist

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/13/2010	2.00	2.02	101
CCV2 Result	10/13/2010	2.00	2.02	101
CCV3 Result	10/13/2010	2.00	2.01	101
CCV4 Result	10/13/2010	2.00	2.01	101

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Hegler Kronquist

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/13/2010	0.050	ND
CCB2 Result	10/13/2010	0.050	ND
CCB3 Result	10/13/2010	0.050	ND
CCB4 Result	10/13/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Nitrate+Nitrite as Nitrogen

Analysis Method 353.2  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.25	0.05	5	10/06/10 11:12	4.95	
MW-5	K1010795-002	0.50	0.09	10	10/06/10 11:12	14.4	
EQUIPMENT BLANK	K1010795-003	0.050	0.009	1	10/06/10 11:12	0.051	
Method Blank	K1010795-MB	0.050	0.009	1	10/06/10 11:12	0.024	J
Method Blank	K1010795-MB	0.050	0.009	1	10/06/10 11:12	0.029	J

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010735-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrate+Nitrite as Nitrogen	353.2	0.050	0.087	0.095	0.091	9	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010850-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrate+Nitrite as Nitrogen	353.2	0.25	8.97	8.94	8.96	<1	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010735-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrate+Nitrite as Nitrogen	353.2	0.050	2.00	0.087	2.01	96	86-117	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010850-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrate+Nitrite as Nitrogen	353.2	0.50	20.0	8.97	28.4	97	86-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010735-001MS K1010735-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate+Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	0.087	2.01	2.03	96	97	86-117	1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010850-001MS K1010850-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate+Nitrite as Nitrogen	NONE	353.2	0.50	20.0	20.0	8.97	28.4	28.4	97	97	86-117	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrate+Nitrite as Nitrogen	NONE	353.2	14.8	14.0	95	88-110	
Nitrate+Nitrite as Nitrogen	NONE	353.2	14.8	14.1	95	88-110	

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# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Hegler Kronquist

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	2.00	1.92	96
CCV2 Result	10/6/2010	2.00	1.92	96
CCV3 Result	10/6/2010	2.00	1.92	96
CCV4 Result	10/6/2010	2.00	1.91	96
CCV5 Result	10/6/2010	2.00	1.93	97
CCV6 Result	10/6/2010	2.00	1.92	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.050	ND
CCB2 Result	10/6/2010	0.050	ND
CCB3 Result	10/6/2010	0.050	ND
CCB4 Result	10/6/2010	0.050	ND
CCB5 Result	10/6/2010	0.050	ND
CCB6 Result	10/6/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Nitrite as Nitrogen

Analysis Method 353.2  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.050	0.005	1	09/30/10 13:23	ND	
MW-5	K1010795-002	0.050	0.005	1	09/30/10 13:23	ND	
EQUIPMENT BLANK	K1010795-003	0.050	0.005	1	09/30/10 13:23	ND	
Method Blank	K1010795-MB	0.050	0.005	1	09/30/10 13:23	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 9/29/2010  
Date Received : 9/30/2010  
Date Prepared : NA  
Date Analyzed : 09/30/10

Duplicate Summary  
Inorganic Parameters

Sample Name : MW-6  
Lab Code : K1010795-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrite as Nitrogen	353.2	0.050	ND	ND	ND	-	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** 9/29/2010  
**Date Received :** 9/30/2010  
**Date Prepared :** NA  
**Date Analyzed :** 09/30/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MW-6  
**Lab Code :** K1010795-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	353.2	0.050	2.00	ND	2.02	101	90-110	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** 9/29/2010  
**Date Received :** 9/30/2010  
**Date Prepared :** NA  
**Date Analyzed :** 09/30/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : MW-6 Units : mg/L  
 Lab Code : K1010795-001MS K1010795-001DMS Basis : NA  
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	ND	2.02	2.12	101	106	90-110	5	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 09/30/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	NONE	353.2	4.00	3.99	100	90-110	

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# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Hegler Kronquist

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	9/30/2010	2.00	2.10	105
CCV2 Result	9/30/2010	2.00	2.04	102

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Hegler Kronquist

Service Request : K1010795  
Date Collected : NA  
Date Received : NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	9/30/2010	0.050	ND
CCB2 Result	9/30/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Nitrate as Nitrogen

Analysis Method 353.3  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	0.25	0.05	5	10/06/10	4.95	
MW-5	K1010795-002	0.50	0.09	10	10/06/10	14.4	
EQUIPMENT BLANK	K1010795-003	0.050	0.009	1	10/06/10	0.051	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Alkalinity as CaCO<sub>3</sub>, Total

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	9.0	3.0	1	10/01/10 10:30	223	
MW-5	K1010795-002	9.0	3.0	1	10/01/10 10:30	290	
EQUIPMENT BLANK	K1010795-003	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/01/10 10:30	5.9	J

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/05/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010727-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	19.0	16.5	17.8	14	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/01/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010789-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	290	286	288	1	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/01/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Alkalinity as CaCO <sub>3</sub> , Total	NONE	SM 2320 B	97.4	102	105	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/05/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010795-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Alkalinity as CaCO <sub>3</sub> , Total	NONE	SM 2320 B	97.4	94.0	97	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Bicarbonate as CaCO3

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	9.0	3.0	1	10/01/10 10:30	223	
MW-5	K1010795-002	9.0	3.0	1	10/01/10 10:30	290	
EQUIPMENT BLANK	K1010795-003	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/01/10 10:30	5.9	J
Method Blank	K1010795-MB	9.0	3.0	1	10/05/10 08:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Carbonate as CaCO<sub>3</sub>

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	9.0	3.0	1	10/01/10 10:30	ND	
MW-5	K1010795-002	9.0	3.0	1	10/01/10 10:30	ND	
EQUIPMENT BLANK	K1010795-003	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/01/10 10:30	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Hydroxide as CaCO3

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	9.0	3.0	1	10/01/10 10:30	ND	
MW-5	K1010795-002	9.0	3.0	1	10/01/10 10:30	ND	
EQUIPMENT BLANK	K1010795-003	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/01/10 10:30	ND	
Method Blank	K1010795-MB	9.0	3.0	1	10/05/10 08:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : 09/29/10  
Date Received : 09/30/10

Solids, Total Dissolved

Analysis Method SM 2540 C  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-6	K1010795-001	10	10	1	10/04/10 11:00	545	
MW-5	K1010795-002	14	14	1	10/04/10 11:00	496	
EQUIPMENT BLANK	K1010795-003	14	14	1	10/04/10 11:00	451	
Method Blank	K1010795-MB	5.0	5.0	1	10/04/10 11:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/04/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010759-006DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved	SM 2540 C	20	3410	3260	3340	4	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/04/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010795-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Solids, Total Dissolved	NONE	SM 2540 C	1090	1170	107	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/04/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010680-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved	SM 2540 C	14	1780	1690	1740	5	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Hegler Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010795  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/04/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010735-002DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
				Sample Result	Average		
Solids, Total Dissolved	SM 2540 C	20	3390	3460	3430	2	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Hegler Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010795  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/04/10

Duplicate Summary  
Inorganic Parameters

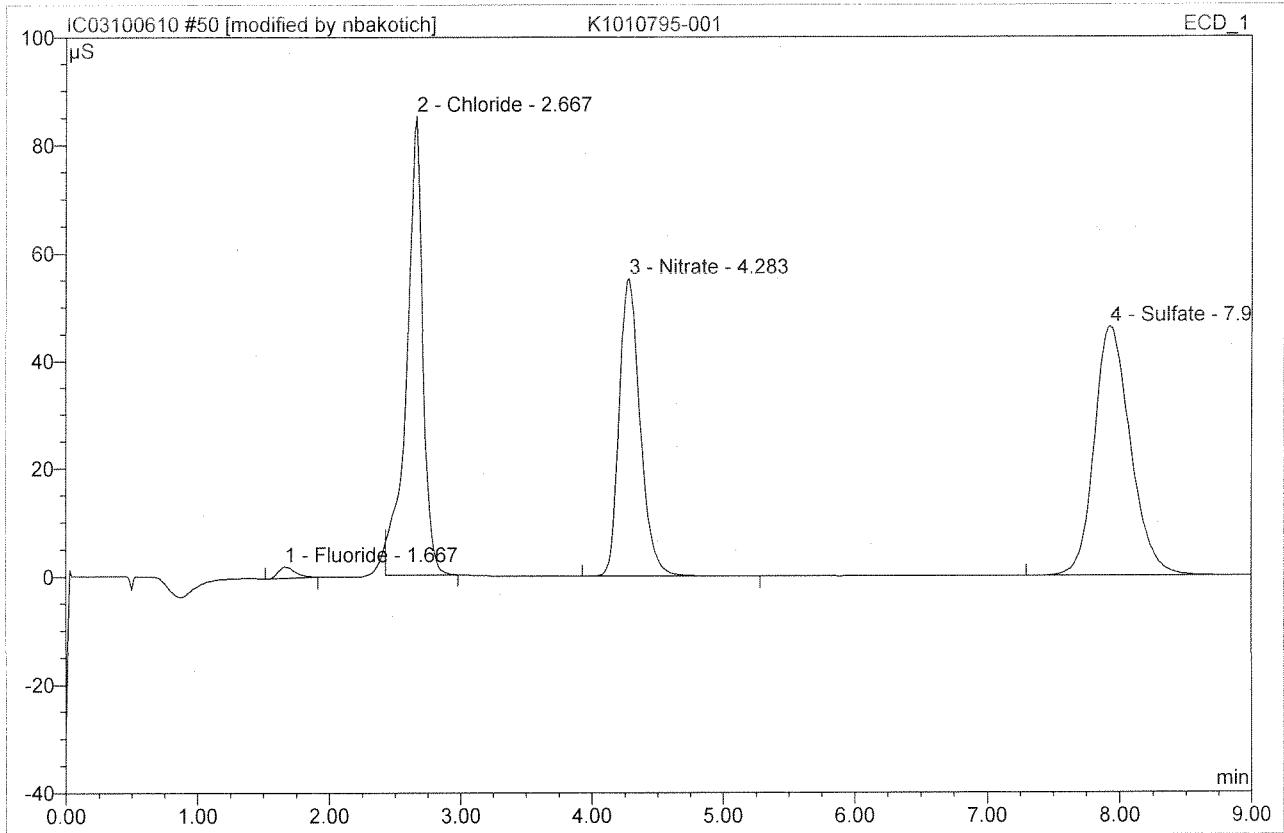
Sample Name : Batch QC  
Lab Code : K1010785-009DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved	SM 2540 C	20	1730	1880	1810	8	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

<b>50 K1010795-001</b>			
Sample Name:	K1010795-001	Injection Volume:	200.0
Vial Number:	49	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 22:47	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	2.152	0.323	0.87	0.345	BMB*
2	2.67	Chloride	84.967	12.093	32.51	15.581	MB*
3	4.28	Nitrate	55.181	10.275	27.63	5.505	BMB*
4	7.93	Sulfate	46.298	14.503	38.99	29.172	BMB
<b>Total:</b>			188.597	37.194	100.00	50.603	

After Initials nb

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OCT 07 2010

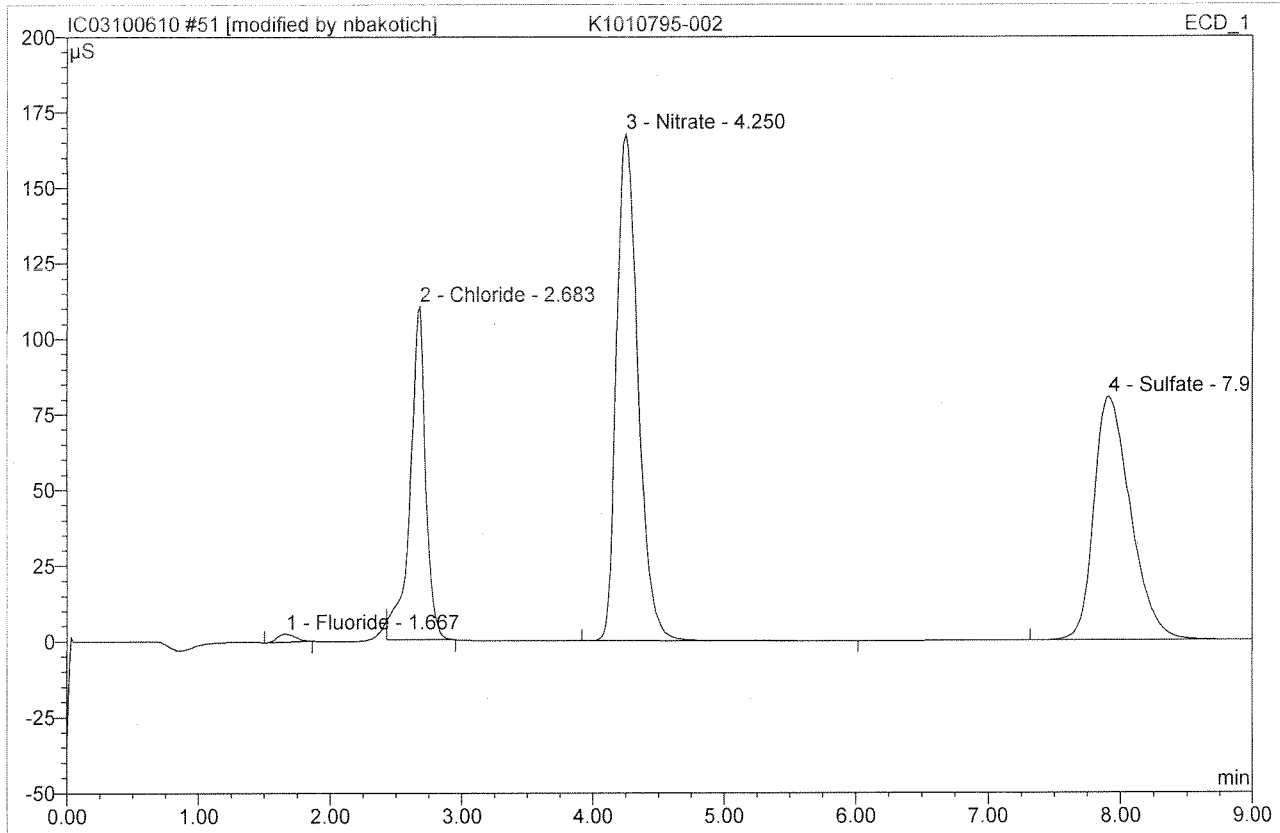
default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

**51 K1010795-002**

Sample Name:	<b>K1010795-002</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>50</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/6/2010 22:58</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	2.705	0.428	0.58	0.459	BMB*
2	2.68	Chloride	110.123	15.071	20.56	19.417	MB*
3	4.25	Nitrate	168.048	31.960	43.61	17.123	BMB*
4	7.92	Sulfate	80.755	25.828	35.24	51.950	BMB
<b>Total:</b>			361.632	73.288	100.00	88.950	

After Initials nb

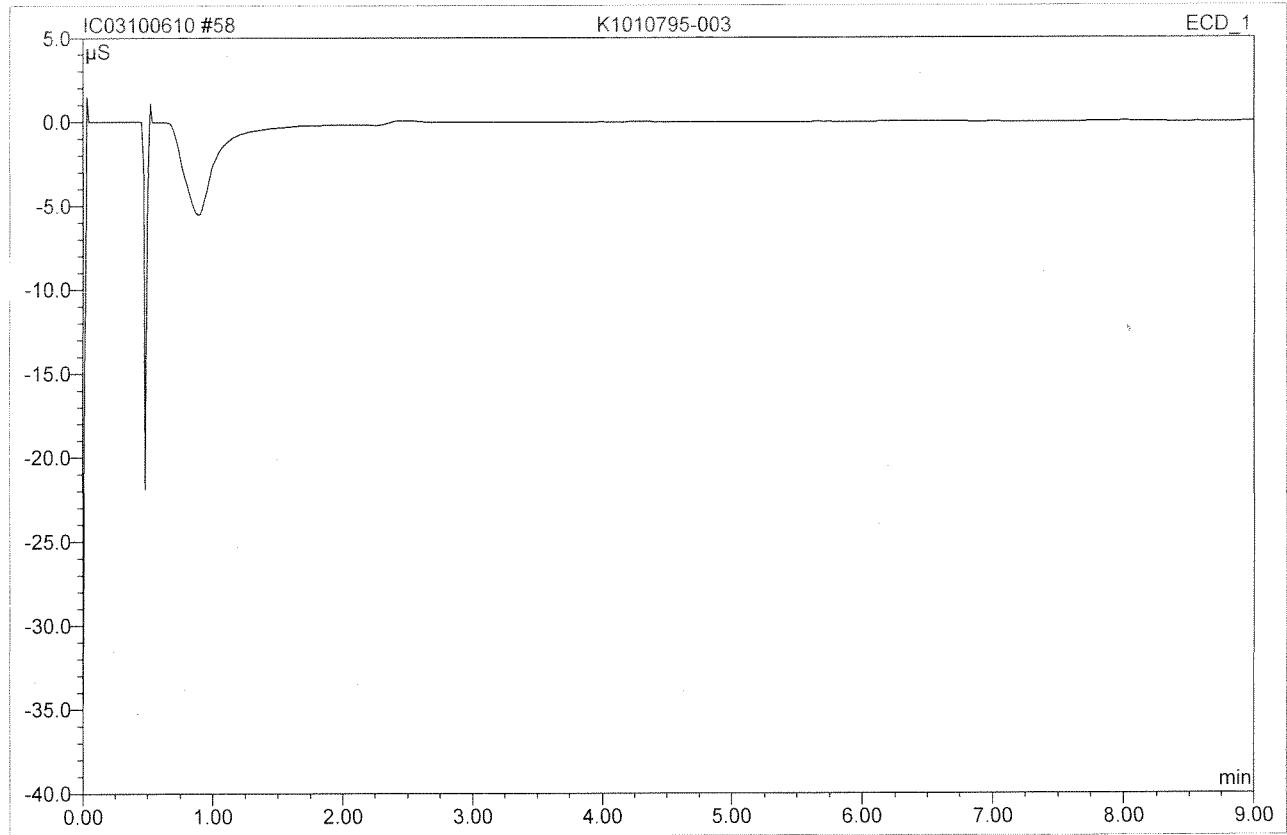
OCT 07 2010

*nb*

- Wrong Peak/Peak not Found
- Baseline/shoulder incorrect
- Other

**58 K1010795-003**

Sample Name:	K1010795-003	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 0:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

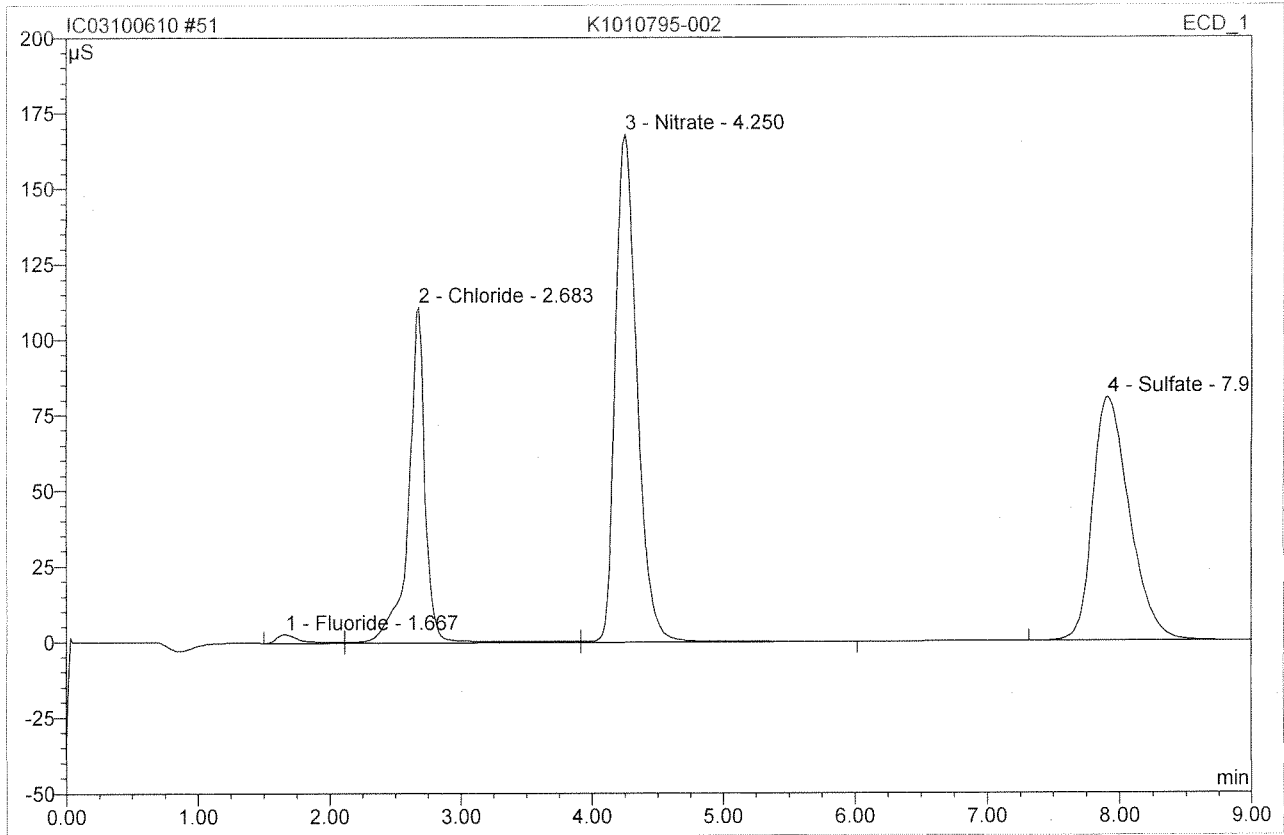


No.	Ret.Time min	Peak Name	Height $\mu$ S	Area $\mu$ S*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

F < 0.20  
Cl  
SO<sub>2</sub> ↓

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<b>51 K1010795-002</b>			
Sample Name:	K1010795-002	Injection Volume:	200.0
Vial Number:	50	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 22:58	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

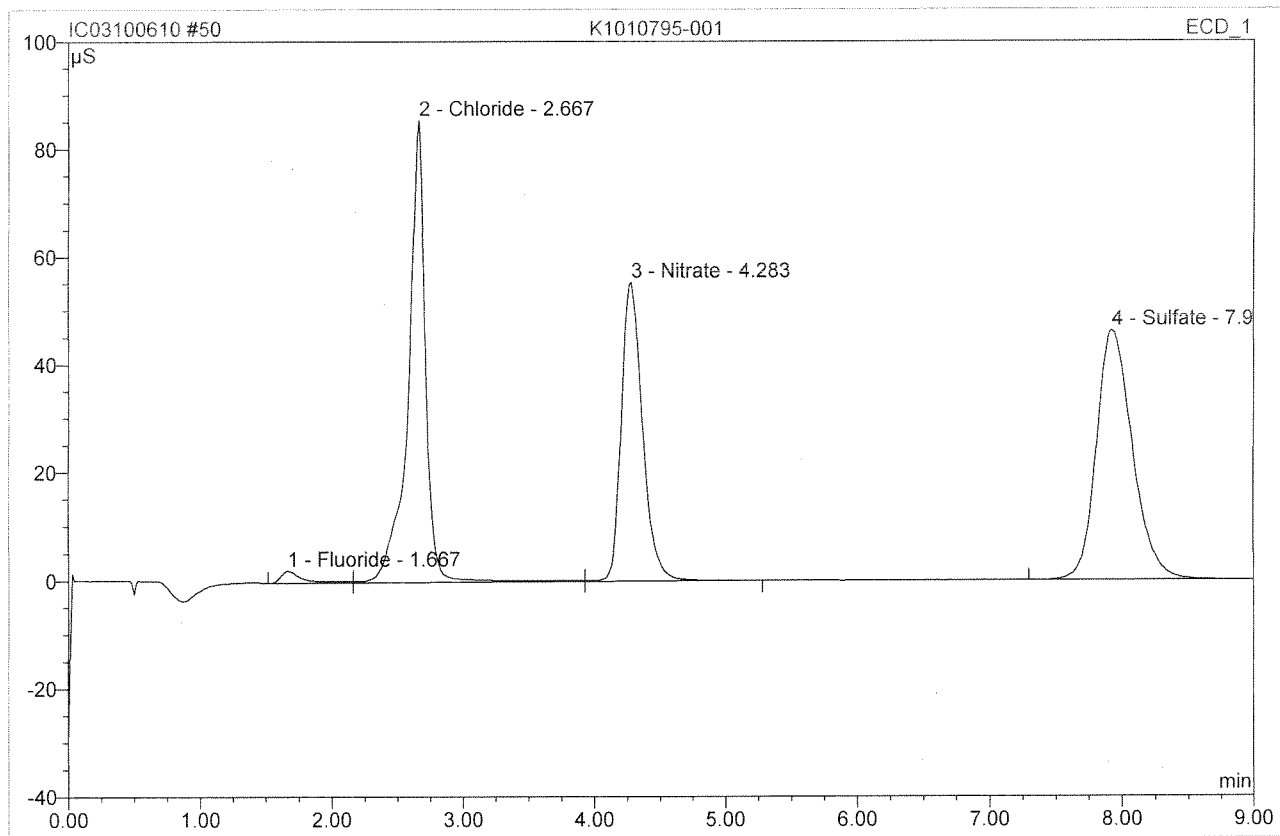


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	2.931	0.608	0.81	0.651	BM
2	2.68	Chloride	110.967	16.396	21.85	21.124	M
3	4.25	Nitrate	168.248	32.210	42.92	17.257	MB
4	7.92	Sulfate	80.755	25.828	34.42	51.950	BMB
<b>Total:</b>			362.901	75.041	100.00	90.983	

Before

OCT 07 2010

<b>50 K1010795-001</b>			
Sample Name:	K1010795-001	Injection Volume:	200.0
Vial Number:	49	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 22:47	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



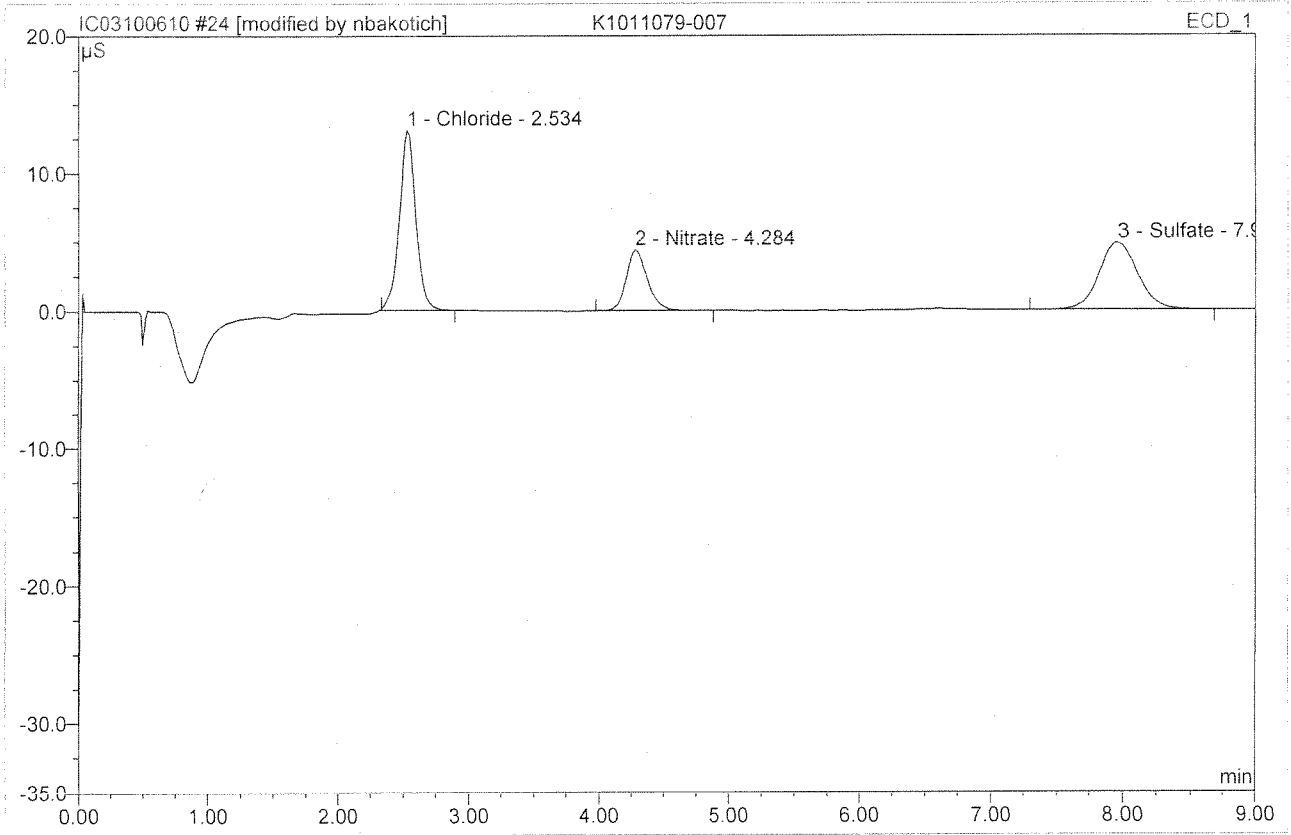
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	2.283	0.466	1.21	0.499	BM
2	2.67	Chloride	85.619	13.169	34.17	16.967	M
3	4.28	Nitrate	55.319	10.400	26.99	5.572	MB
4	7.93	Sulfate	46.298	14.503	37.63	29.172	BMB
<b>Total:</b>			189.518	38.539	100.00	52.210	

Before

OCT 07 2010



<b>24 K1011079-007</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride $\approx 2.14^4$ RPD=2	13.066	1.910	44.06	2.461	MB*
2	4.28	Nitrate $\approx 20.45$ RPD<1	4.376	0.841	19.41	0.451	BMB
3	7.97	Sulfate $\approx 23.18$ RPD<1	4.875	1.583	36.53	3.185	BMB
<b>Total:</b>			22.317	4.335	100.00	6.097	

$NO_3^- < 0.10 \times < 0.10^4$  RPD=

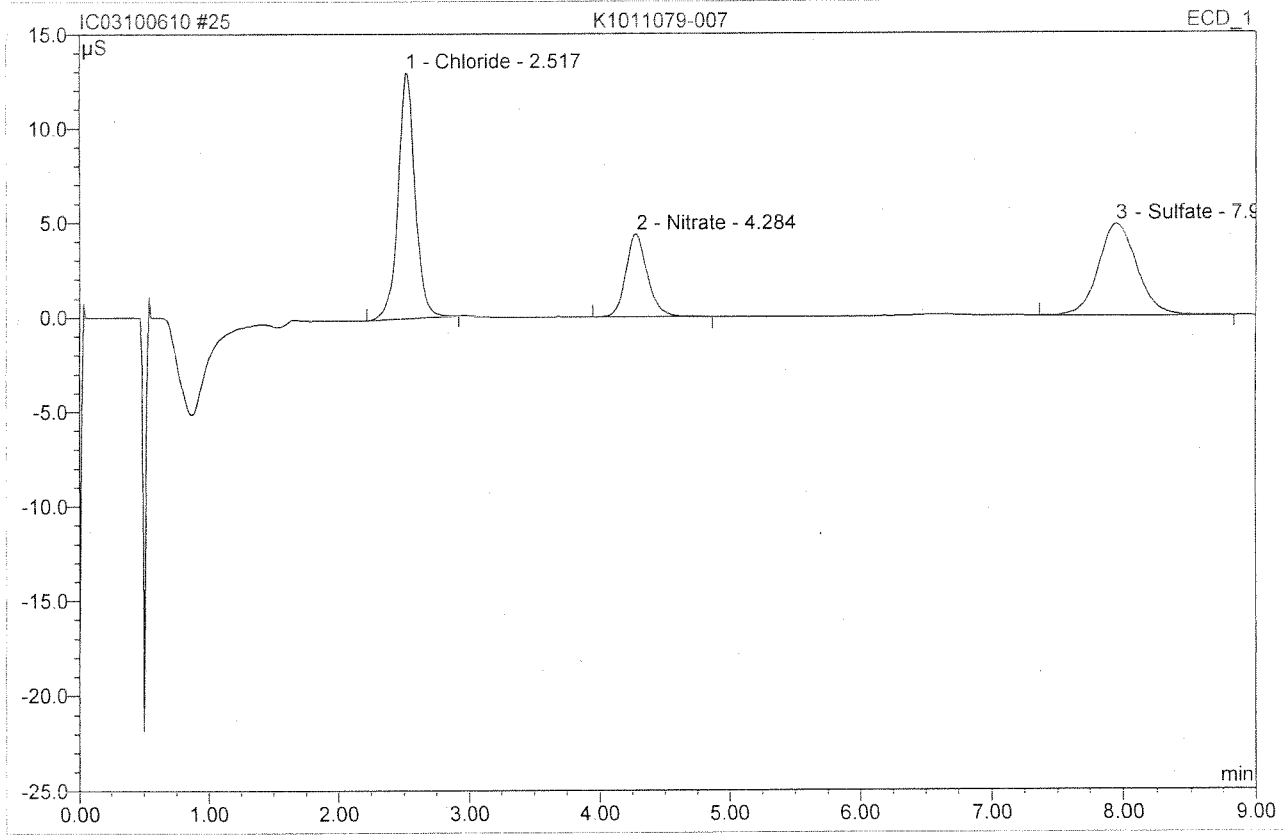
After Initials nb

OCT 06 2010

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*nbakotich*

<b>25 K1011079-007</b>			
<b>D</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	12.993	1.954	44.79	2.517	BMB
2	4.28	Nitrate	4.330	0.835	19.13	0.447	BMB
3	7.95	Sulfate	4.819	1.574	36.08	3.166	BMB
<b>Total:</b>			22.143	4.362	100.00	6.130	

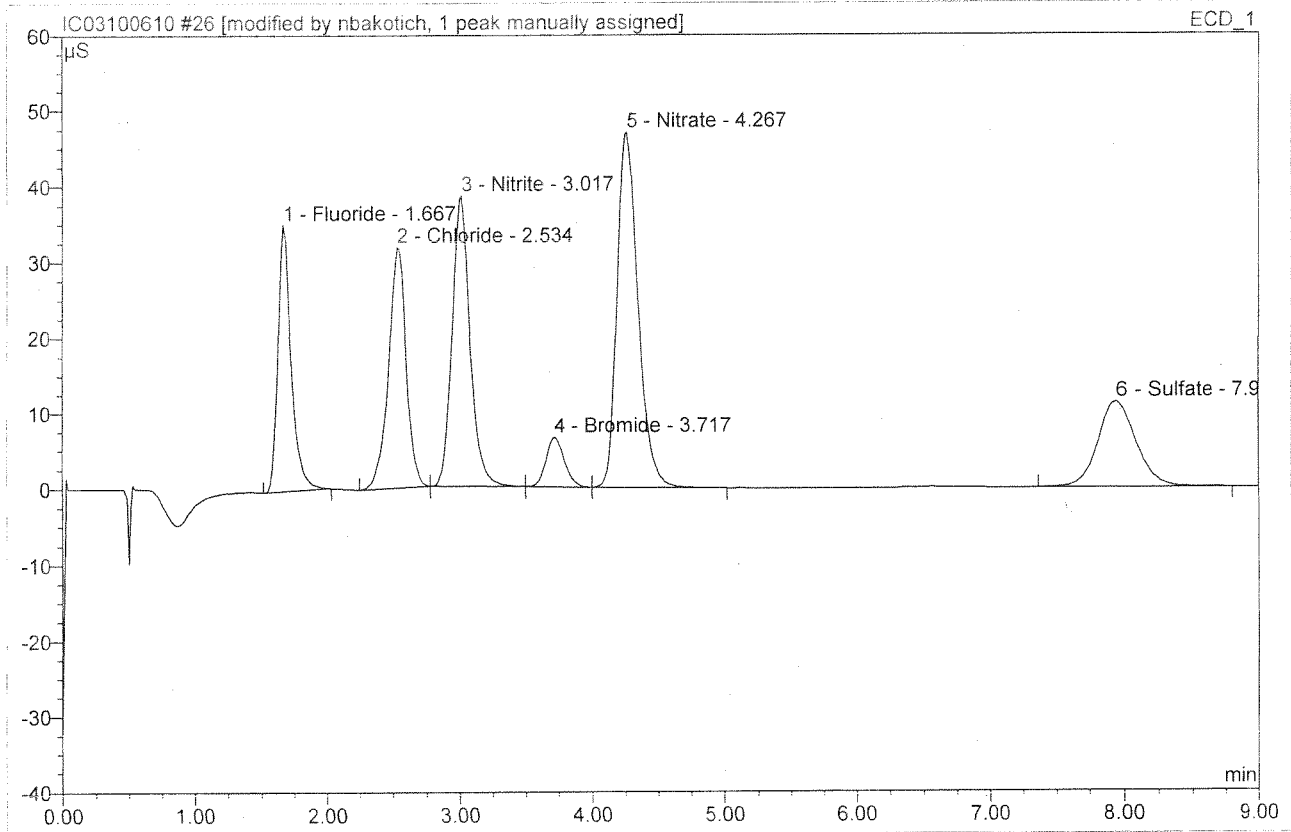
*NO<sub>2</sub> < 0.10*

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**26 K1011079-007**

**MS**

Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride <i>REC=111</i>	35.284	4.145	14.59	4.439	BMB*^
2	2.53	Chloride <i>REC=97</i>	31.892	4.924	17.33	6.345	BMb*
3	3.02	Nitrite <i>REC=95</i>	38.427	6.010	21.15	3.775	bMb
4	3.72	Bromide <i>REC=100</i>	6.584	1.063	3.74	4.014	bMb
5	4.27	Nitrate <i>REC=105</i>	46.937	8.661	30.48	4.640	bMB
6	7.95	Sulfate <i>REC=102</i>	11.346	3.615	12.72	7.272	BMB
<b>Total:</b>			170.469	28.418	100.00	30.483	

*spr/v/v  
4*

Anal Initials *nb*

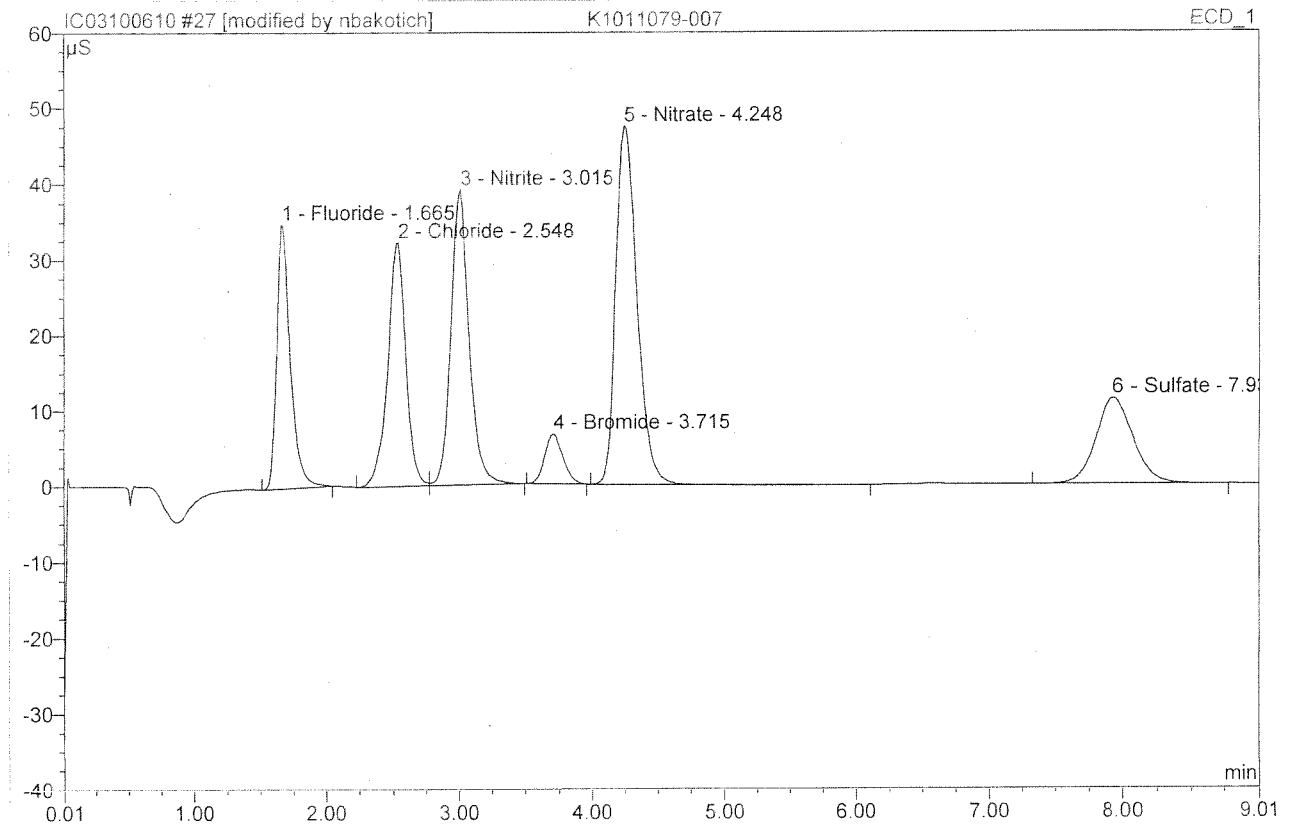
OCT 05 2010

*K 10/6/10*

**27 K1011079-007**

**MSD**

Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.66	Fluoride <i>REC=112</i>	34.980	4.160	14.43	4.455	BMB*
2	2.55	Chloride <i>REC=102</i>	32.331	5.062	17.56	6.521	BM *
3	3.01	Nitrite <i>REC=98</i>	39.090	6.202	21.51	3.896	MB*
4	3.71	Bromide <i>REC=100</i>	6.639	1.058	3.67	3.995	BMB*
5	4.25	Nitrate <i>REC=106</i>	47.340	8.712	30.22	4.668	BMB*
6	7.93	Sulfate <i>REC=103</i>	11.415	3.636	12.61	7.314	BMB
<b>Total:</b>			171.794	28.831	100.00	30.849	

After Initials nb

OCT 06 2010

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other 87

*sph/vl  
4*

*K  
10/6/10*

Sequence # 1003100610

Ion Chromatography Data Quality Report  
Inorganics

Run # 219688

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS			
Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-33-CC</u>	Expires: <u>3.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>
Nitrite	True Value = 100 ppm	CAS ID # = _____	Expires: <u>10.6.10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>2.3.11</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-V</u>	Expires: <u>1.22.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>

CCV	CAS ID # = _____	Expires _____	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10.28.10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10.28.10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>12.22.10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>1.30.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike			
2.0ppm X dilution factor	CAS ID # = _____	Expires <u>10.6.10</u>	
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>CCV</u>	
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: _____	
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: _____	
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: _____	
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: _____	
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: _____	

Analyst: AB Date: 10.6.10  
 First Review: [Signature] Date: 10.6/7.10  
 Final Review: [Signature] Date: 10/10/10

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
1021-1	11				F			
					Cl			
					<del>NO2</del>	2.5/5		✓
					Br			
					<del>NO3</del>			✓
1025-1	11				SO4			
					F			
					Cl			
					<del>NO2</del>			✓
					Br			
11032-1	11				<del>NO3</del>			✓
					SO4			
					F			
					Cl			
					<del>NO2</del>			✓
11059-1	1				Br			
					<del>NO3</del>			✓
					SO4			
					F			
					Cl			
11061-1	1				NO2			
					Br			
					<del>NO3</del>			✓
					SO4			
					F			
11063-1	1				Cl			
					NO2			
					Br			
					<del>NO3</del>			✓
					SO4			
11069-2	1				F			
					Cl			
					NO2			
					Br			
					<del>NO3</del>			✓
11071-2	1				SO4			✓
					<del>NO3</del>			
					Br			
					NO2			
					<del>Cl</del>			
11079-2	V				F			
					Cl		115	✓
					<del>NO2</del>			✓
					Br			
					<del>NO3</del>			✓
-3					SO4			✓
					F			
					Cl			✓
					<del>NO2</del>			✓
					Br			
					<del>NO3</del>			✓
					SO4			✓
					F			
					Cl			
					<del>NO2</del>			✓

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done
1079-4					F			
					Cl	2.5/5		✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-5					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-6					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-7		R			F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4	✓		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
 Last Update: 10/7/2010 10:04:02 AM by nbakotich











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lvl2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/lvl3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/lvl4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/lvl5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/lvl6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/lvl7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/lvl1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-Z	Unknown	8	200.0	epa300	epa300	Finished	10/6/2010 2:45:35 PM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/6/2010 2:57:03 PM
10	NO2 AN11-31-G	Unknown	10	200.0	epa300	epa300	Finished	10/6/2010 3:08:30 PM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:19:58 PM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:31:26 PM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/6/2010 3:42:54 PM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/6/2010 3:54:22 PM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/6/2010 4:05:50 PM
16	SPKCHK AN11-72-DD	Unknown	15	200.0	epa300	epa300	Finished	10/6/2010 4:17:19 PM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/6/2010 4:28:46 PM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/6/2010 4:40:15 PM
19	K1011079-002	Unknown	18	200.0	epa300	epa300	Finished	10/6/2010 4:51:43 PM
20	K1011079-003	Unknown	19	200.0	epa300	epa300	Finished	10/6/2010 5:03:10 PM
21	K1011079-004	Unknown	20	200.0	epa300	epa300	Finished	10/6/2010 5:14:38 PM
22	K1011079-005	Unknown	21	200.0	epa300	epa300	Finished	10/6/2010 5:26:06 PM
23	K1011079-006	Unknown	22	200.0	epa300	epa300	Finished	10/6/2010 5:37:34 PM
24	K1011079-007	Unknown	23	200.0	epa300	epa300	Finished	10/6/2010 5:49:02 PM
25	K1011079-007	Unknown	24	200.0	epa300	epa300	Finished	10/6/2010 6:00:30 PM
26	K1011079-007	Unknown	25	200.0	epa300	epa300	Finished	10/6/2010 6:11:57 PM
27	K1011079-007	Unknown	26	200.0	epa300	epa300	Finished	10/6/2010 6:23:25 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/6/2010 6:34:53 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/6/2010 6:46:20 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/6/2010 6:57:48 PM
31	K1011021-001	Unknown	30	200.0	epa300	epa300	Finished	10/6/2010 7:09:16 PM
32	K1011025-001	Unknown	31	200.0	epa300	epa300	Finished	10/6/2010 7:20:43 PM
33	K1011032-001	Unknown	32	200.0	epa300	epa300	Finished	10/6/2010 7:32:11 PM
34	K1010966-002	Unknown	33	200.0	epa300	epa300	Finished	10/6/2010 7:43:39 PM
35	K1010996-002	Unknown	34	200.0	epa300	epa300	Finished	10/6/2010 7:55:06 PM
36	K1010996-002	Unknown	35	200.0	epa300	epa300	Finished	10/6/2010 8:06:35 PM
37	K1010996-002	Unknown	36	200.0	epa300	epa300	Finished	10/6/2010 8:18:03 PM
38	K1010851-001	Unknown	37	200.0	epa300	epa300	Finished	10/6/2010 8:29:30 PM
39	K1010851-003	Unknown	38	200.0	epa300	epa300	Finished	10/6/2010 8:40:58 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/6/2010 8:52:26 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/6/2010 9:03:53 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/6/2010 9:15:21 PM



Sequence: IC03100610  
Operator: nbakotich

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
1	 std2/vl2	1.0000	
2	 std3/vl3	1.0000	
3	 std4/vl4	1.0000	
4	 std5/vl5	1.0000	
5	 std6/vl6	1.0000	
6	 std7/vl7	1.0000	
7	 std1/vl1	1.0000	
8	 CCV AN11-82-Z	1.0000	
9	 CCB1	1.0000	
10	 NO2 AN11-31-G	25.0000	NO2
11	 MB	1.0000	MB
12	 NO3 AN1-33-V	20.0000	NO3
13	 CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	 F AN 1-33-Y	2.0000	F
15	 Br AN1-33-L	1.0000	Br
16	 SPKCHK AN11-72-DD	1.0000	
17	 CCV2	1.0000	CCV2
18	 CCB2	1.0000	CCB2
19	 K1011079-002	2.0000	
20	 K1011079-003	2.0000	
21	 K1011079-004	2.0000	
22	 K1011079-005	2.0000	
23	 K1011079-006	2.0000	
24	 K1011079-007	2.0000	
25	 K1011079-007	2.0000	D
26	 K1011079-007	2.0000	MS
27	 K1011079-007	2.0000	MSD
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1011021-001	2.0000	
32	 K1011025-001	2.0000	
33	 K1011032-001	2.0000	
34	 K1010966-002	2.0000	
35	 K1010996-002	2.0000	D
36	 K1010996-002	2.0000	MS
37	 K1010996-002	2.0000	MSD
38	 K1010851-001	100.0000	
39	 K1010851-003	100.0000	
40	 RB	1.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
 Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1010851-004	Unknown	42	200.0	epa300	epa300	Finished	10/6/2010 9:26:49 PM
44	K1010851-005	Unknown	43	200.0	epa300	epa300	Finished	10/6/2010 9:38:17 PM
45	K1010851-006	Unknown	44	200.0	epa300	epa300	Finished	10/6/2010 9:49:45 PM
46	K1010854-001	Unknown	45	200.0	epa300	epa300	Finished	10/6/2010 10:01:13 PM
47	K1010854-002	Unknown	46	200.0	epa300	epa300	Finished	10/6/2010 10:12:40 PM
48	K1010923-004	Unknown	47	200.0	epa300	epa300	Finished	10/6/2010 10:24:09 PM
49	K1011008-001	Unknown	48	200.0	epa300	epa300	Finished	10/6/2010 10:35:36 PM
50	K1010795-001	Unknown	49	200.0	epa300	epa300	Finished	10/6/2010 10:47:03 PM
51	K1010795-002	Unknown	50	200.0	epa300	epa300	Finished	10/6/2010 10:58:31 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/6/2010 11:09:58 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/6/2010 11:21:26 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/6/2010 11:32:54 PM
55	K1011008-001	Unknown	54	200.0	epa300	epa300	Finished	10/6/2010 11:44:21 PM
56	K1011008-001	Unknown	55	200.0	epa300	epa300	Finished	10/6/2010 11:55:49 PM
57	K1011008-001	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 12:07:17 AM
58	K1010795-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 12:18:47 AM
59	K1010850-001	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 12:30:15 AM
60	K1010850-002	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 12:41:43 AM
61	K1010850-003	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 12:53:12 AM
62	K1010850-004	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 1:04:39 AM
63	K1010899-001	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 1:16:07 AM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 1:27:34 AM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 1:39:02 AM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 1:50:29 AM
67	K1011059-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 2:01:57 AM
68	K1011061-001	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 2:13:25 AM
69	K1011062-001	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 2:24:53 AM
70	K1010960-005	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 2:36:21 AM
71	K1011069-002	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 2:47:51 AM
72	K1011071-002	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 2:59:19 AM
73	NO2 LOQ	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 3:10:46 AM
74	NO2 LOD	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 3:22:15 AM
75	K1010899-002	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 3:33:43 AM
76	RB	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 3:45:10 AM
77	CCV7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 3:56:38 AM
78	CCB7	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 4:08:05 AM
79	MB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 4:19:33 AM
80	CLSO4	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 4:31:00 AM
81	K1011079-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:42:28 AM
82	K1010851-001	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:53:56 AM
83	K1010851-003	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:05:24 AM
84	K1010851-004	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:16:51 AM

Sequence: IC03100610  
Operator: nbakotich




Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
43	K1010851-004	100.0000	
44	K1010851-005	100.0000	
45	K1010851-006	100.0000	
46	K1010854-001	2.0000	
47	K1010854-002	2.0000	
48	K1010923-004	2.0000	
49	K1011008-001	2.0000	
50	K1010795-001	2.0000	
51	K1010795-002	2.0000	
52	RB	1.0000	
53	CCV5	1.0000	CCV5
54	CCB5	1.0000	CCB5
55	K1011008-001	2.0000	D
56	K1011008-001	2.0000	MS
57	K1011008-001	2.0000	MSD
58	K1010795-003	2.0000	
59	K1010850-001	2.0000	
60	K1010850-002	2.0000	
61	K1010850-003	2.0000	
62	K1010850-004	1.0000	
63	K1010899-001	2.0000	
64	RB	1.0000	
65	CCV6	1.0000	CCV6
66	CCB6	1.0000	CCB6
67	K1011059-001	2.0000	
68	K1011061-001	2.0000	
69	K1011062-001	2.0000	
70	K1010960-005	10.0000	
71	K1011069-002	2.0000	
72	K1011071-002	2.0000	
73	NO2 LOQ	1.0000	LOQ
74	NO2 LOD	1.0000	LOD
75	K1010899-002	1.0000	
76	RB	1.0000	
77	CCV7	1.0000	CCV7
78	CCB7	1.0000	CCB7
79	MB	1.0000	MB2
80	CLSO4	1.0000	CLSO4 2
81	K1011079-002	5.0000	
82	K1010851-001	5.0000	
83	K1010851-003	5.0000	
84	K1010851-004	10.0000	

Sequence: IC03100610  
Operator: nbakotich

Title:  
Datatype: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87  
Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 RB	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:28:19 AM
86	 CCV8	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:39:46 AM
87	 CCB8	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 5:51:13 AM

Sequence: IC03100610  
Operator: nbakotich

---

Title:  
Datatype: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

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No.	Name	Dil. Factor	Comment
85	 RB	1.0000	
86	 CCV8	1.0000	CCV8
87	 CCB8	1.0000	CCB8

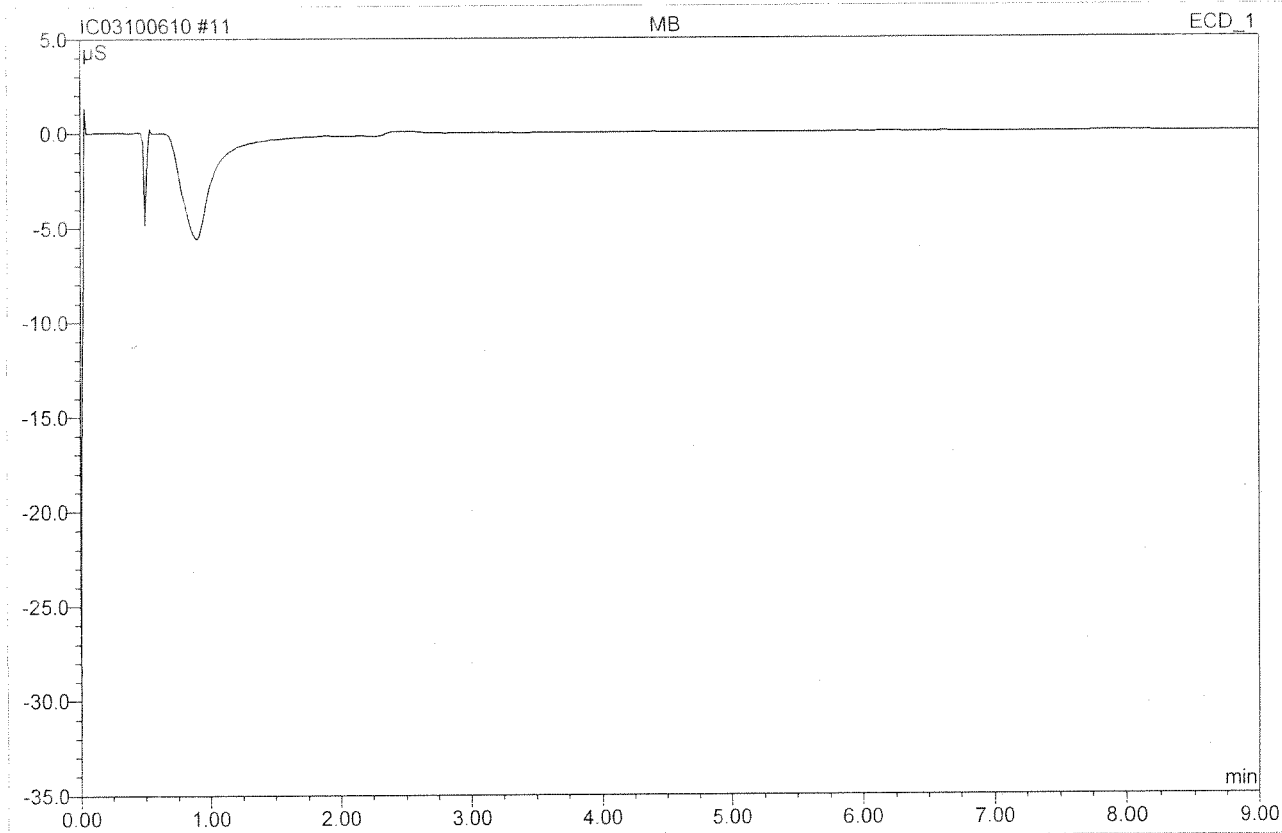
Service Request	Tier	QC	Hold Time	Due Date	Arions	Initial	Final	Done?
966-2	1	X			(E) CI	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			
851-1	11				(C) CI	1/100	1/5	✓
					NO2			
					Br			
					NO3			
					(SO4)			✓
-3					F			
					(C) CI		1/5	✓
					NO2			
					Br			
					NO3			
					(SO4)			✓
-4					F			
					(C) CI		0.5/5	
					NO2			
					Br			
					NO3			
					(SO4)			✓
-5					F			
					(C) CI			
					NO2			
					Br			
					NO3			
					(SO4)			
-6					F			
					(C) CI			
					NO2			
					Br			
					NO3			
					(SO4)			✓
804-1	11				F			
					(C) CI	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			
-7					F			
					(C) CI			✓
					NO2			
					Br			
					NO3			
					SO4			
7973-4/	11				(E) CI			✓
					NO2			
					Br			
					NO3			
					SO4			
1008-1	11	X			F			
					(C) CI	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			

Service Request	Tier	QC	Hold Time	Due Date	Actions	Initial	Final	Done?
10795-1	111				(F)	2.5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
-2					(SO4)			
					(F)			✓
					(Cl)			✓
					NO2			
					Br			
-3					NO3			
					(SO4)	✓		
					(F)	5/5		✓
					(Cl)			✓
					NO2			
10850-1	111				Br			
					NO3			
					(SO4)	✓		
					(F)	2.5/5		✓
					(Cl)			
-2					NO2			
					Br			
					NO3			
					(SO4)			
					(F)			✓
-3					(Cl)			
					NO2			
					Br			
					NO3			
					(SO4)	✓		
-4					(F)	5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
10899-1	111				(SO4)			
					(F)	2.5/5		✓
					(Cl)			✓
					NO2			
					Br			
-2					NO3			
					(SO4)	✓		
					(F)	5/5		✓
					(Cl)			✓
					NO2			
T949-1	1				Br			
					NO3			
					(SO4)	0.25/5		✓
					(F)			
					(Cl)			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Date
949-2					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4	0.25/3		
0960-5					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			



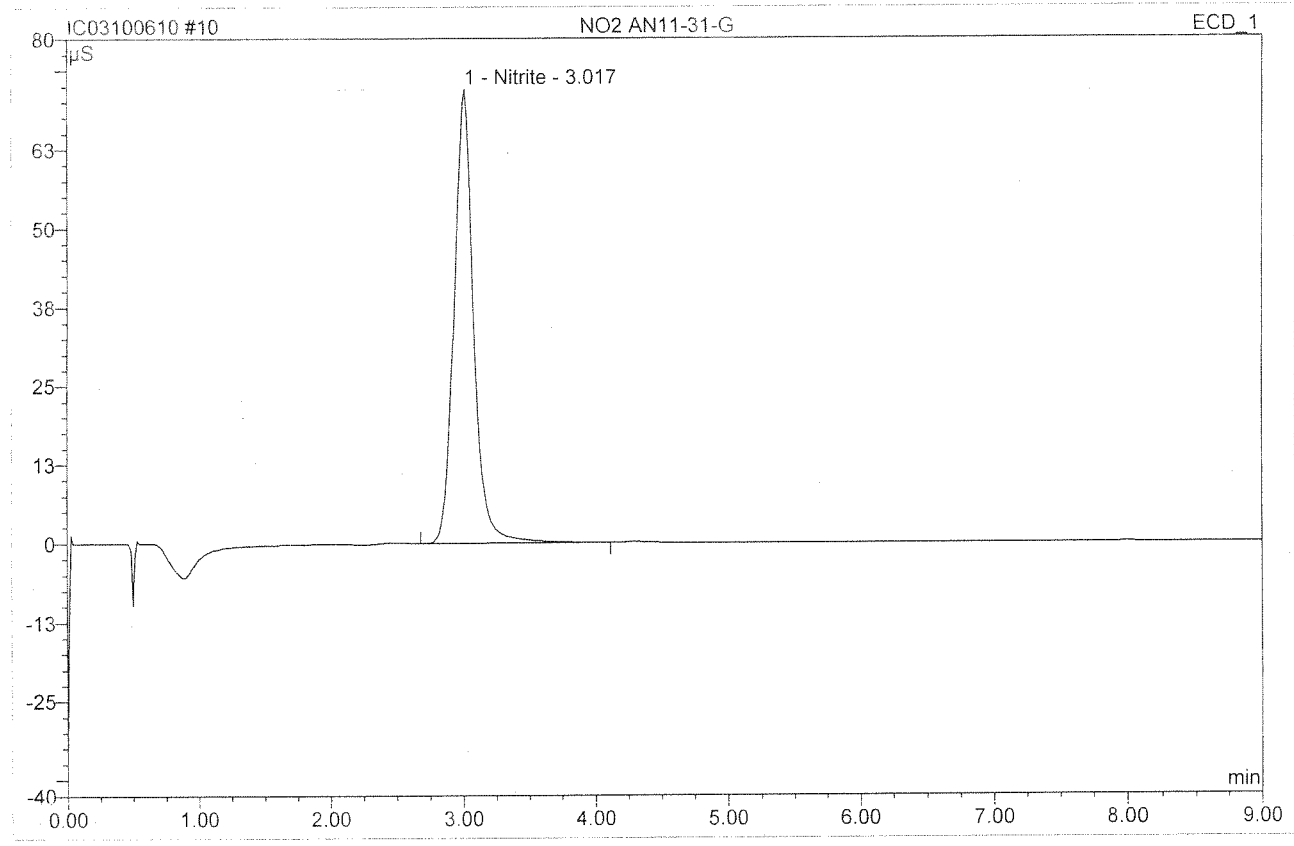
<b>11 MB</b>			
<b>MB</b>			
Sample Name:	<b>MB</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>11</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/6/2010 15:19</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*  
10/6/10

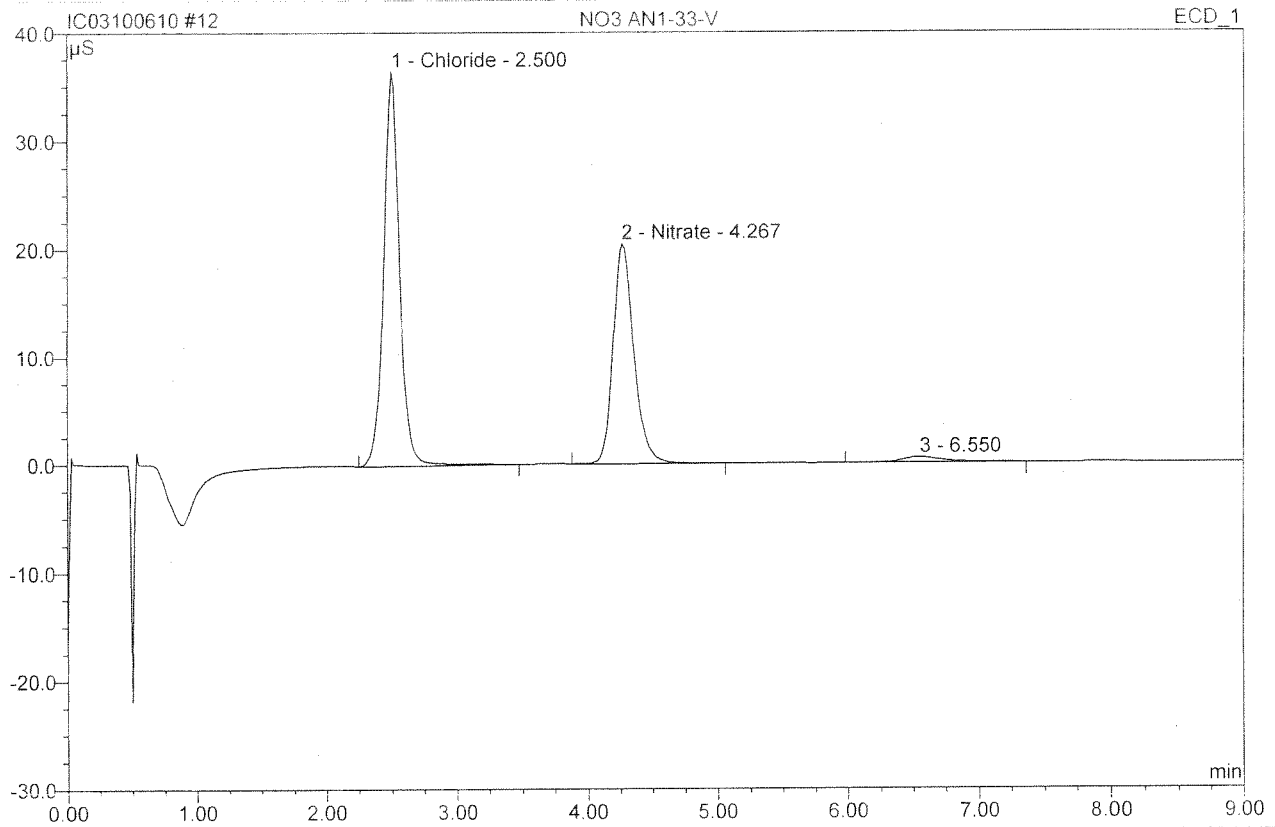
<b>10 NO2 AN11-31-G</b>			
<b>NO2</b>			
Sample Name:	NO2 AN11-31-G	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/6/2010 15:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.02	Nitrite	72.057	12.340	100.00	97 96.881	BMB
<b>Total:</b>			72.057	12.340	100.00	96.881	

*Handwritten signature and date: 10/6/10*

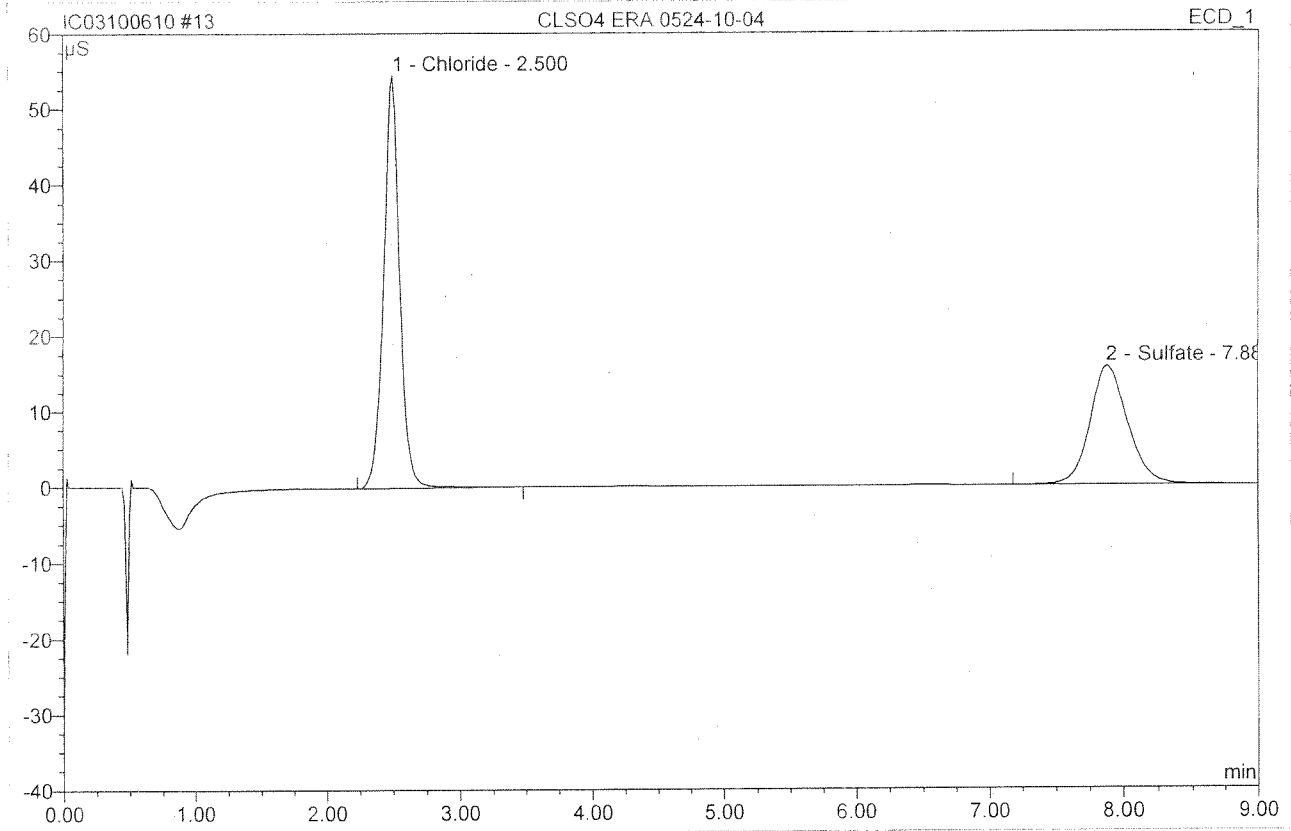
<b>12 NO3 AN1-33-V</b>			
<b>NO3</b>			
Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/6/2010 15:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	36.517	5.185	56.31	66.805	BMB
2	4.27	Nitrate	20.440	3.827	41.56	20.505	BMB
3	6.55	n.a.	0.499	0.196	2.13	n.a.	BMB
<b>Total:</b>			57.455	9.209	100.00	87.311	

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10/6/10

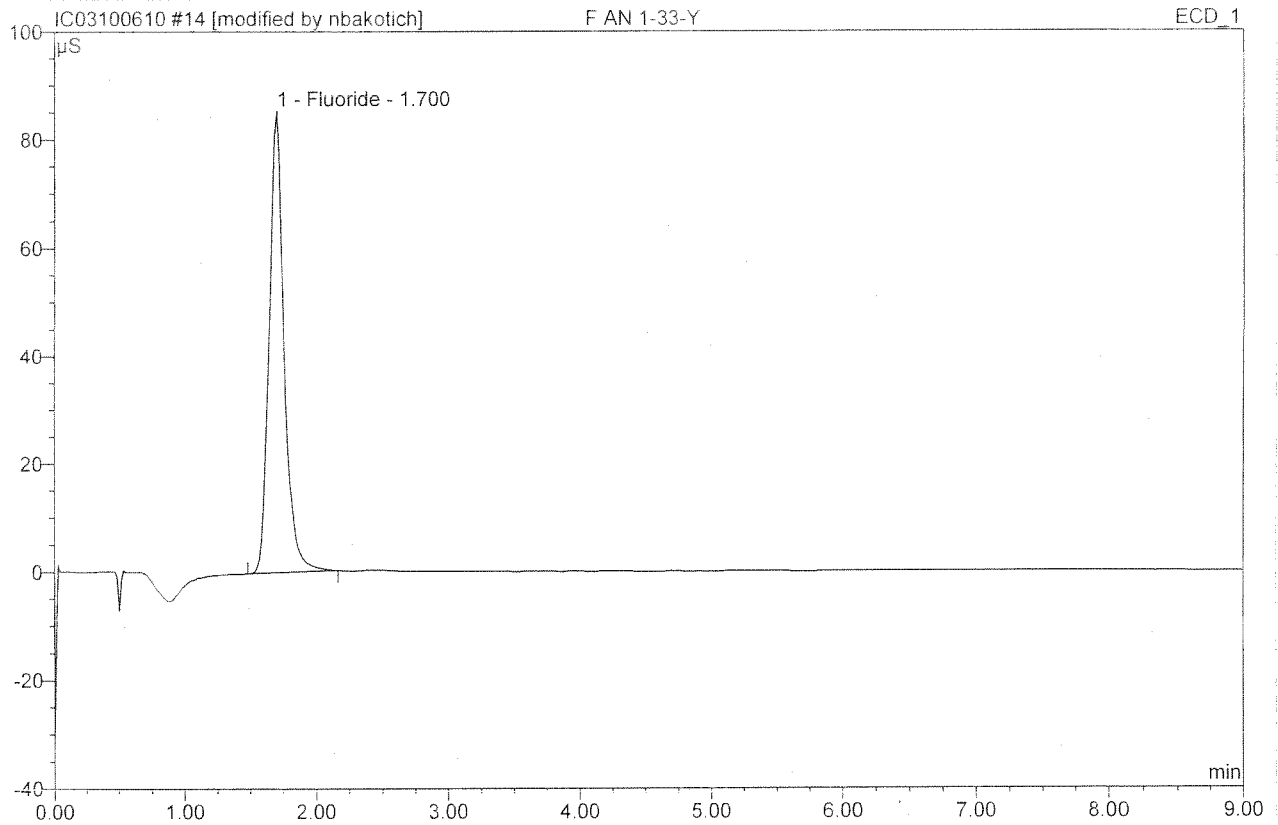
<b>13 CLSO4 ERA 0524-10-04</b>			
<b>CLSO4</b>			
Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 15:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.529	7.660	60.30	4.935	BMB
2	7.88	Sulfate	15.690	5.044	39.70	5.073	BMB
<b>Total:</b>			70.219	12.704	100.00	10.007	

*Handwritten signature and date: 10/6/10*

<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	85.447	11.150	100.00	10.8 11.939	BMB*
<b>Total:</b>			85.447	11.150	100.00	11.939	

After Initials nb

OCT 06 2010

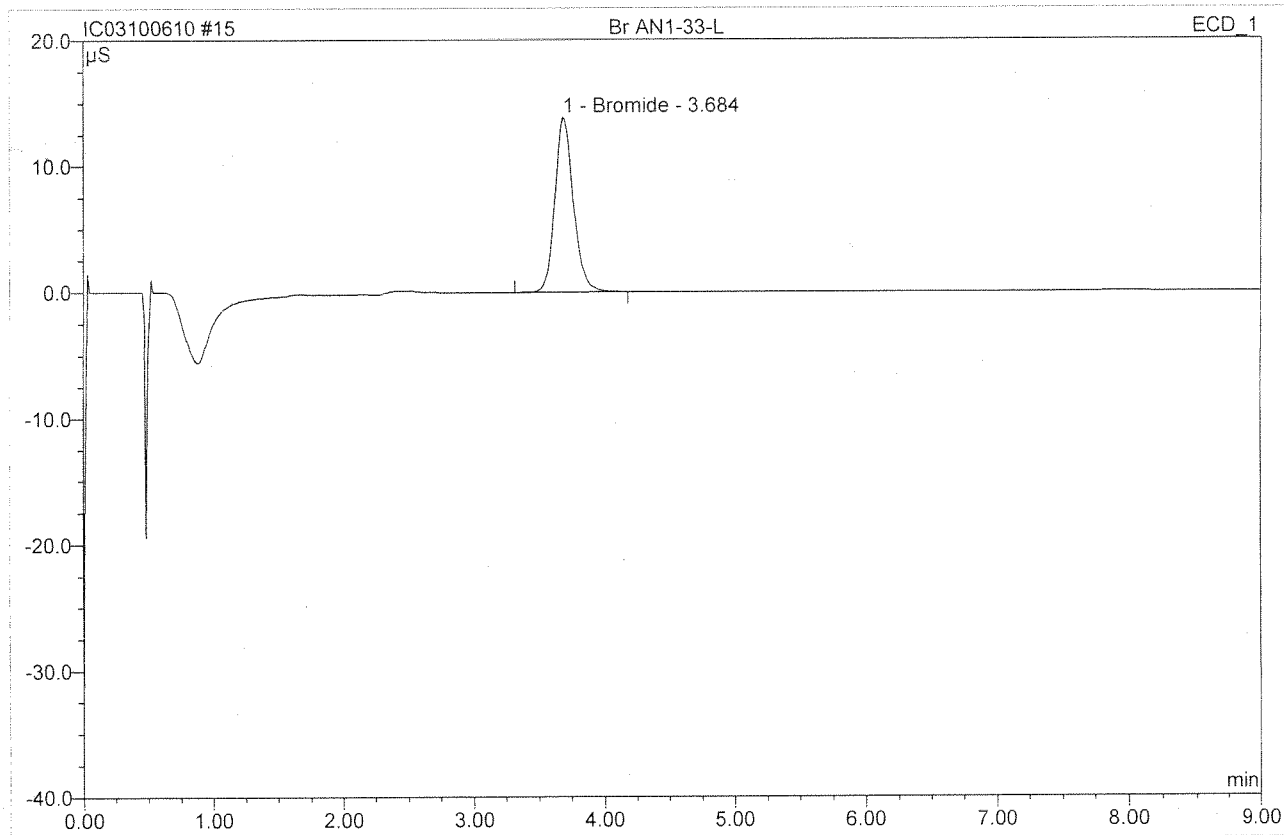
*nb*  
10/6/10

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

### 15 Br AN1-33-L

Br

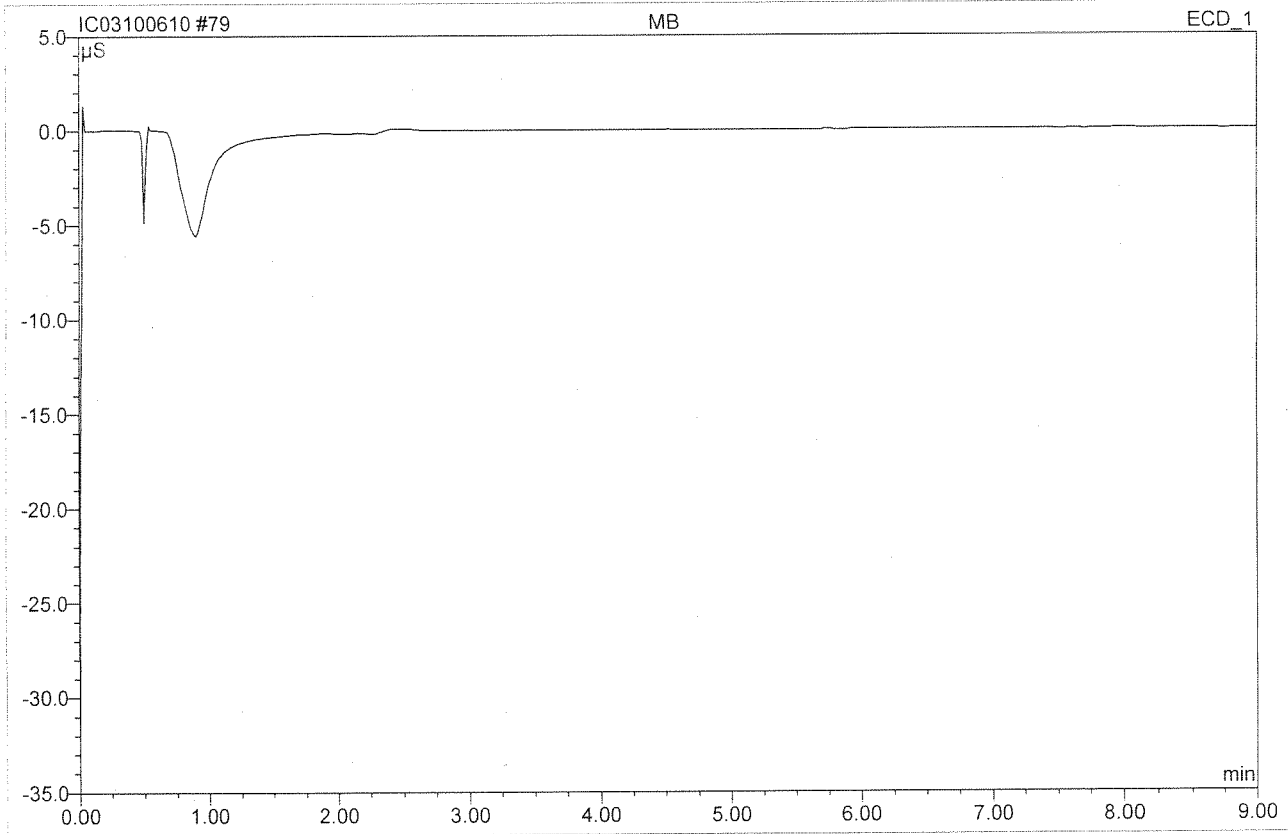
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.68	Bromide	13.895	2.280	100.00	100 4.303	BMB
<b>Total:</b>			13.895	2.280	100.00	4.303	

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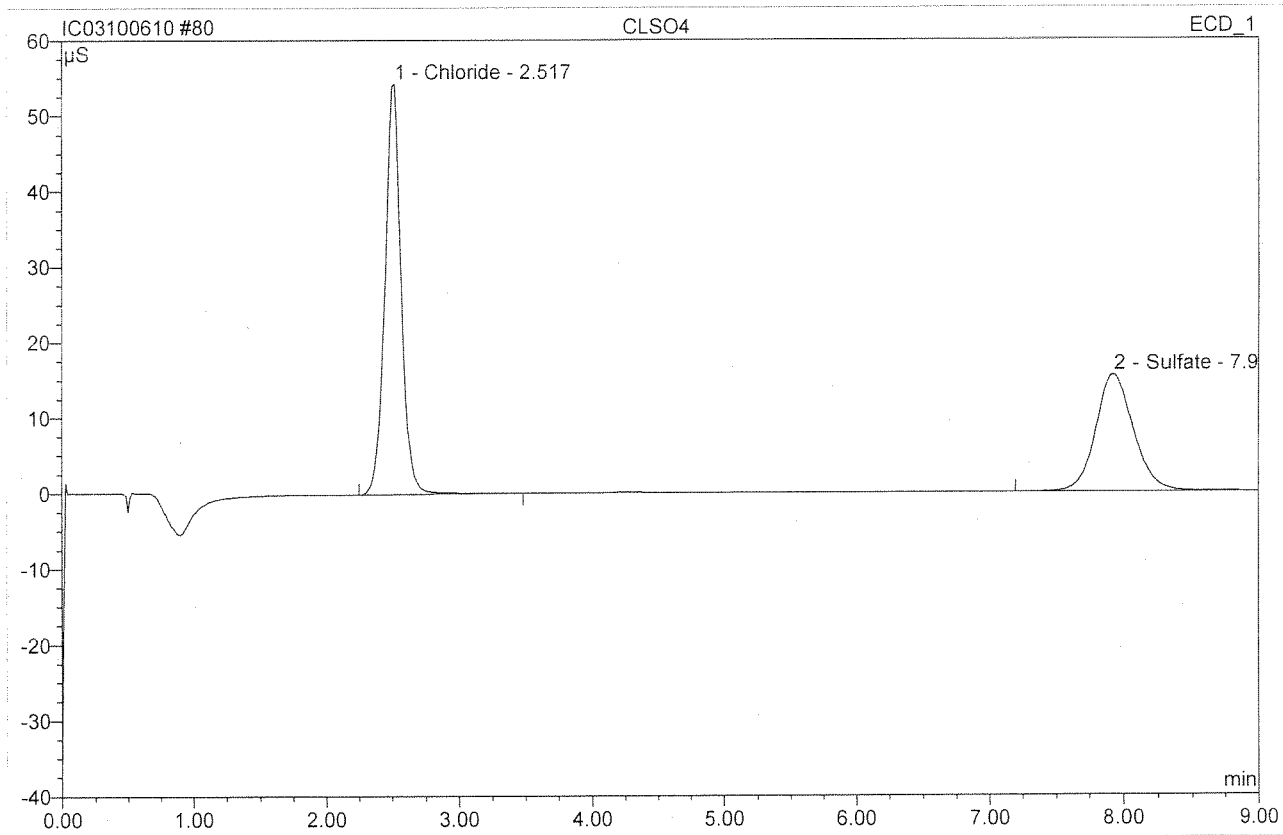
<b>79 MB</b>			
<b>MB2</b>			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	78	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

HT  
10/10/10

<b>80 CLSO4</b>			
<b>CLSO4 2</b>			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	79	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

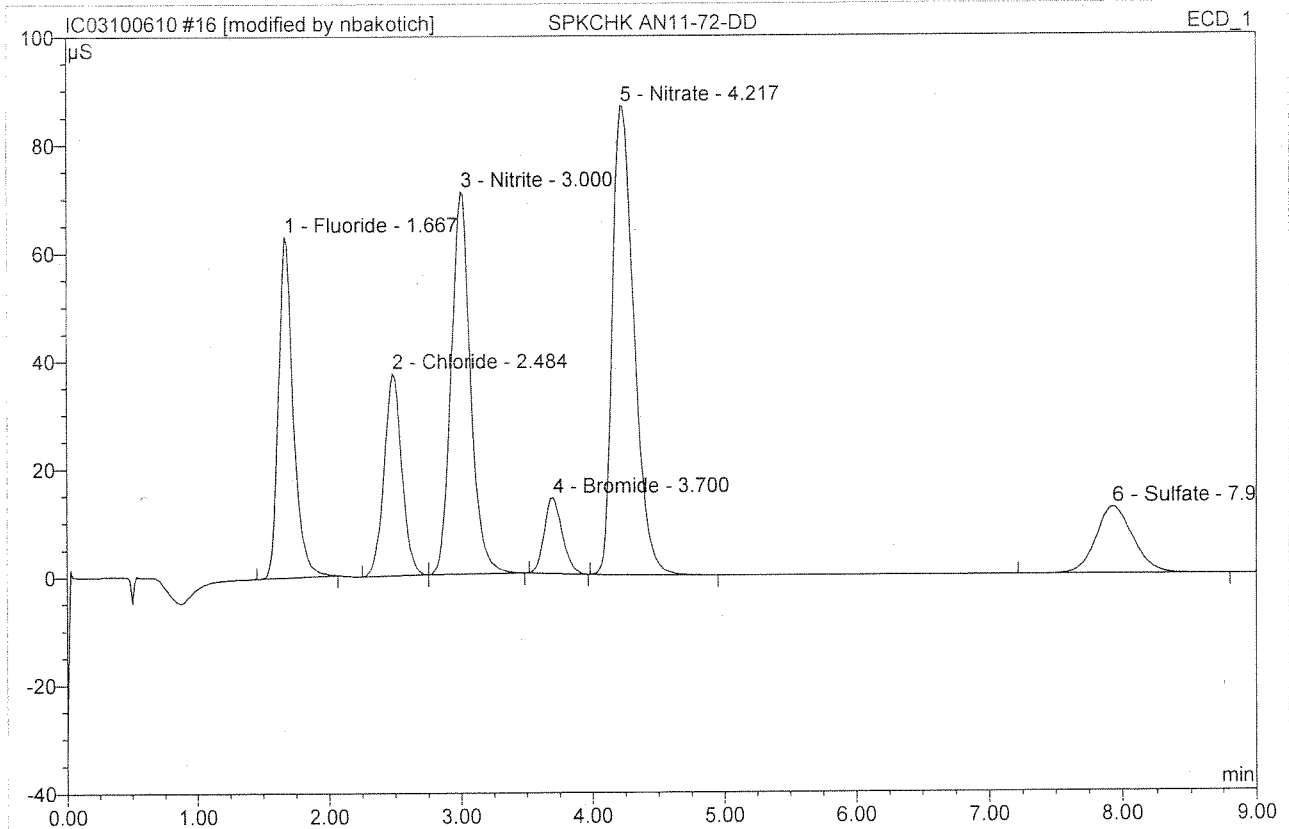


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.52	Chloride	54.398	7.701	60.81	99 4.961	BMB
2	7.93	Sulfate	15.488	4.964	39.19	100 4.992	BMB
<b>Total:</b>			69.886	12.665	100.00	9.954	

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10/10/10



<b>16 SPKCHK AN11-72-DD</b>			
Sample Name:	SPKCHK AN11-72-DD	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	63.161	8.138	16.84	4.357	BMB*
2	2.48	Chloride	37.446	5.776	11.95	3.721	BMB*
3	3.00	Nitrite	70.830	12.016	24.86	3.774	bMB*
4	3.70	Bromide	14.011	2.200	4.55	4.152	BMB*
5	4.22	Nitrate	86.717	16.259	33.64	4.356	BMB*
6	7.93	Sulfate	12.339	3.941	8.15	3.963	BMB
<b>Total:</b>			284.505	48.331	100.00	24.323	

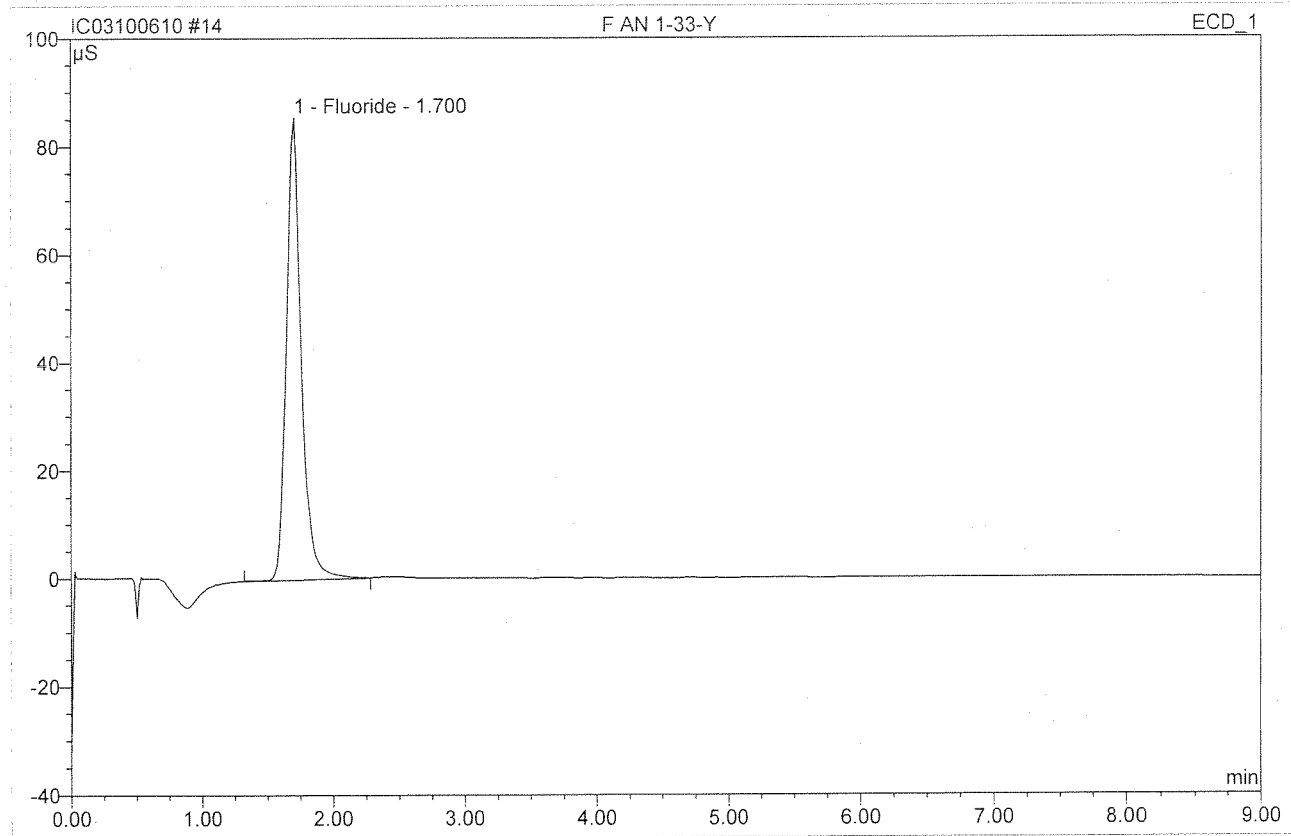
TV=4.0

10/6/10

**14 F AN 1-33-Y**

**F**

Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

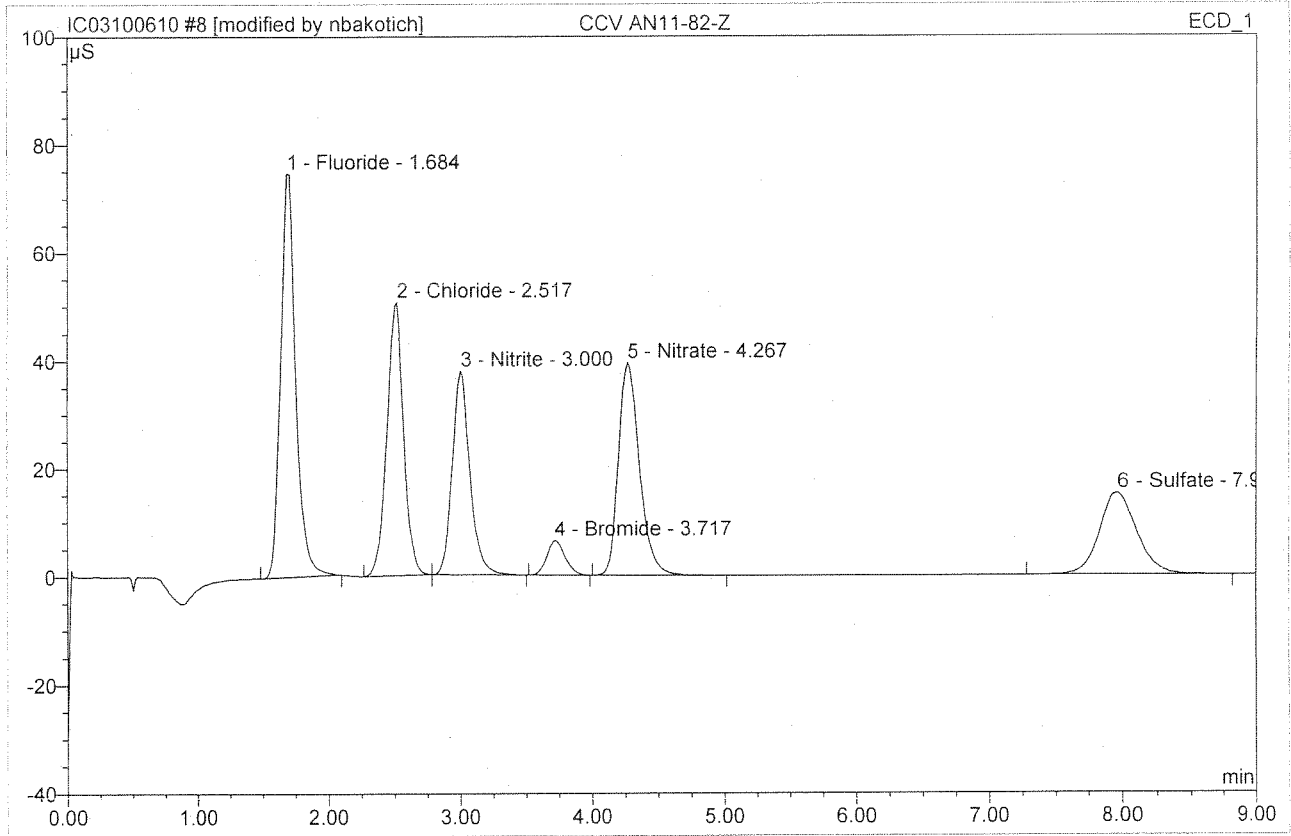


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	85.568	11.275	100.00	110 12.074	BMB
<b>Total:</b>			85.568	11.275	100.00	12.074	

**Before**

**OCT 06 2010**

<b>8 CCV AN11-82-Z</b>			
Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



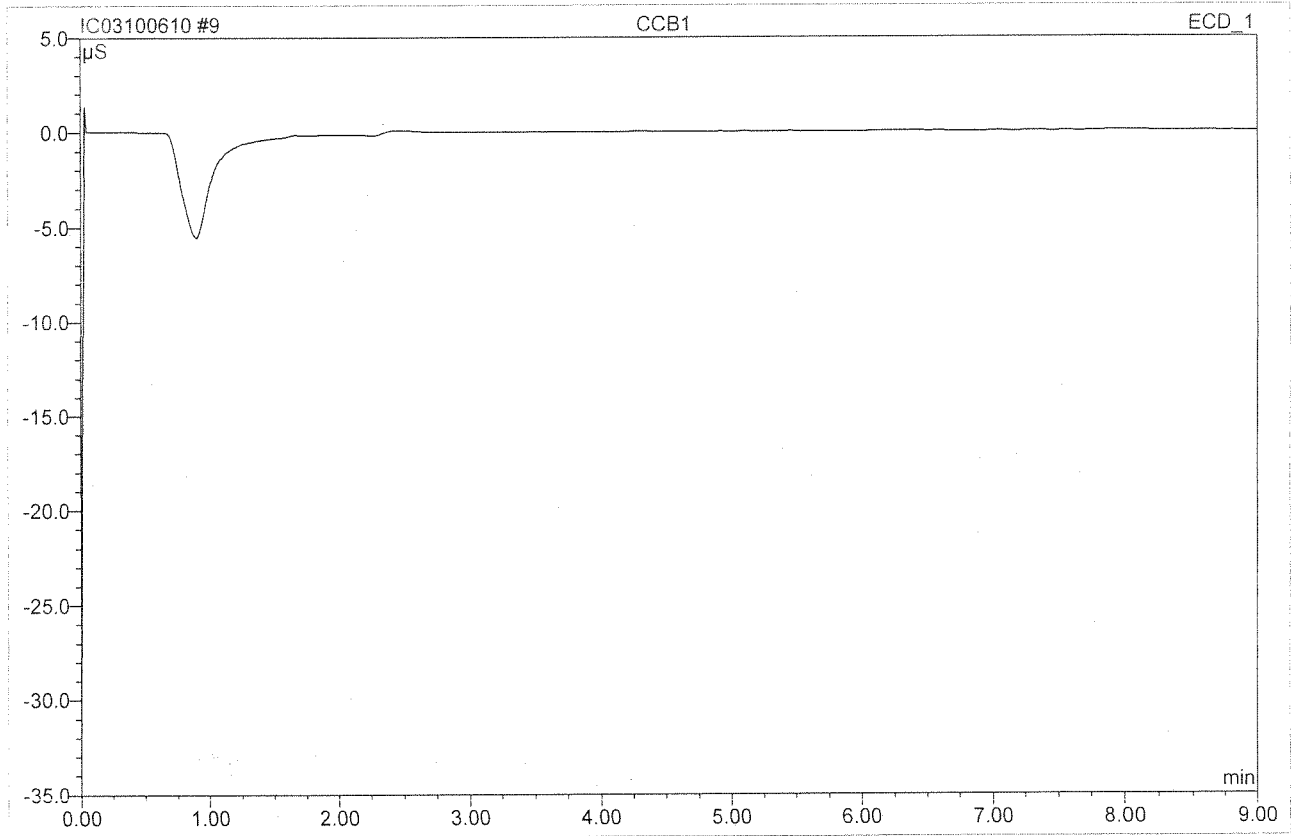
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.758	9.876	27.33	108 5.288	BMB*
2	2.52	Chloride	50.609	7.361	20.37	95 4.742	BMB*
3	3.00	Nitrite	37.787	5.832	16.14	92 1.831	bMB*
4	3.72	Bromide	6.343	1.015	2.81	96 1.916	BMB*
5	4.27	Nitrate	39.378	7.237	20.03	97 1.939	BMB*
6	7.97	Sulfate	15.179	4.809	13.31	97 4.837	BMB
<b>Total:</b>			224.054	36.131	100.00	20.553	

After Initials MB

OCT 06 2010

*Handwritten signature*

<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



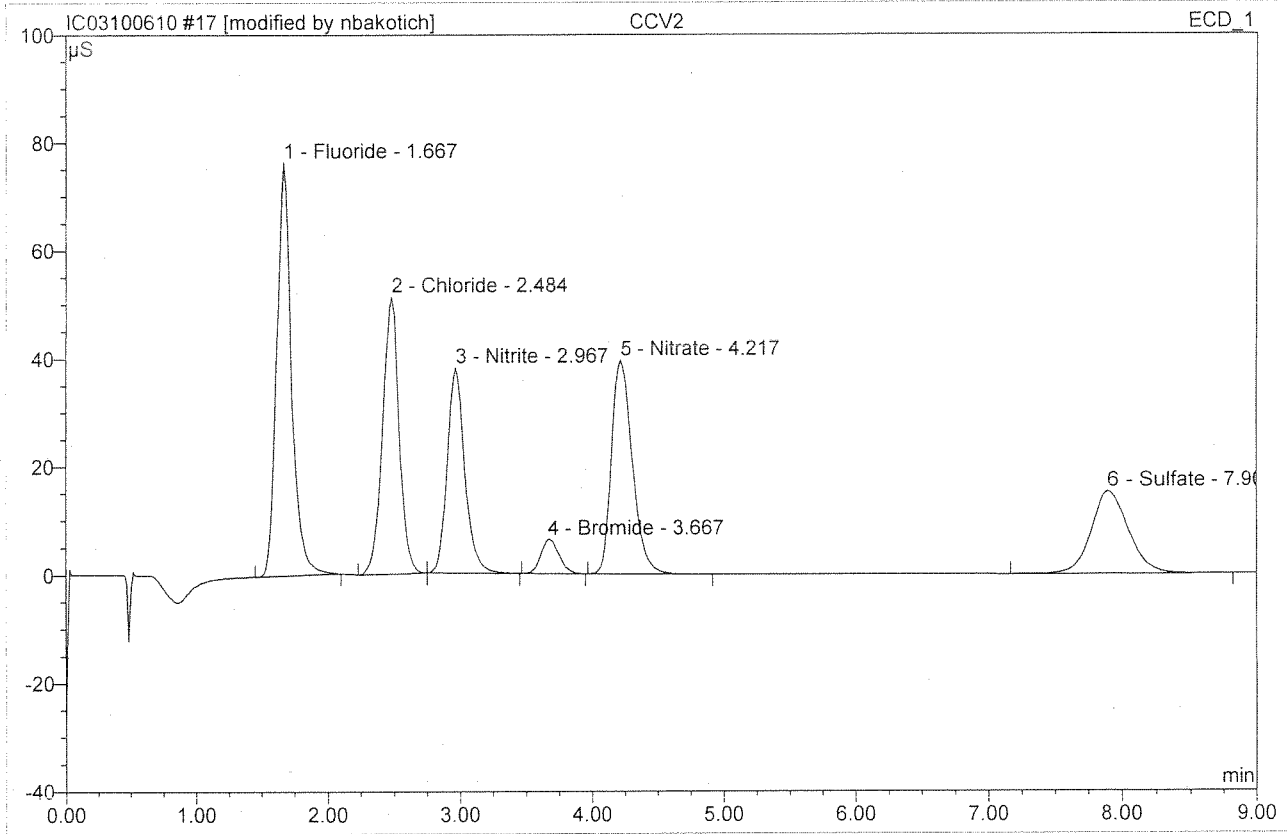
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*H*  
*10/6/10*

# 17 CCV2

## CCV2

Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



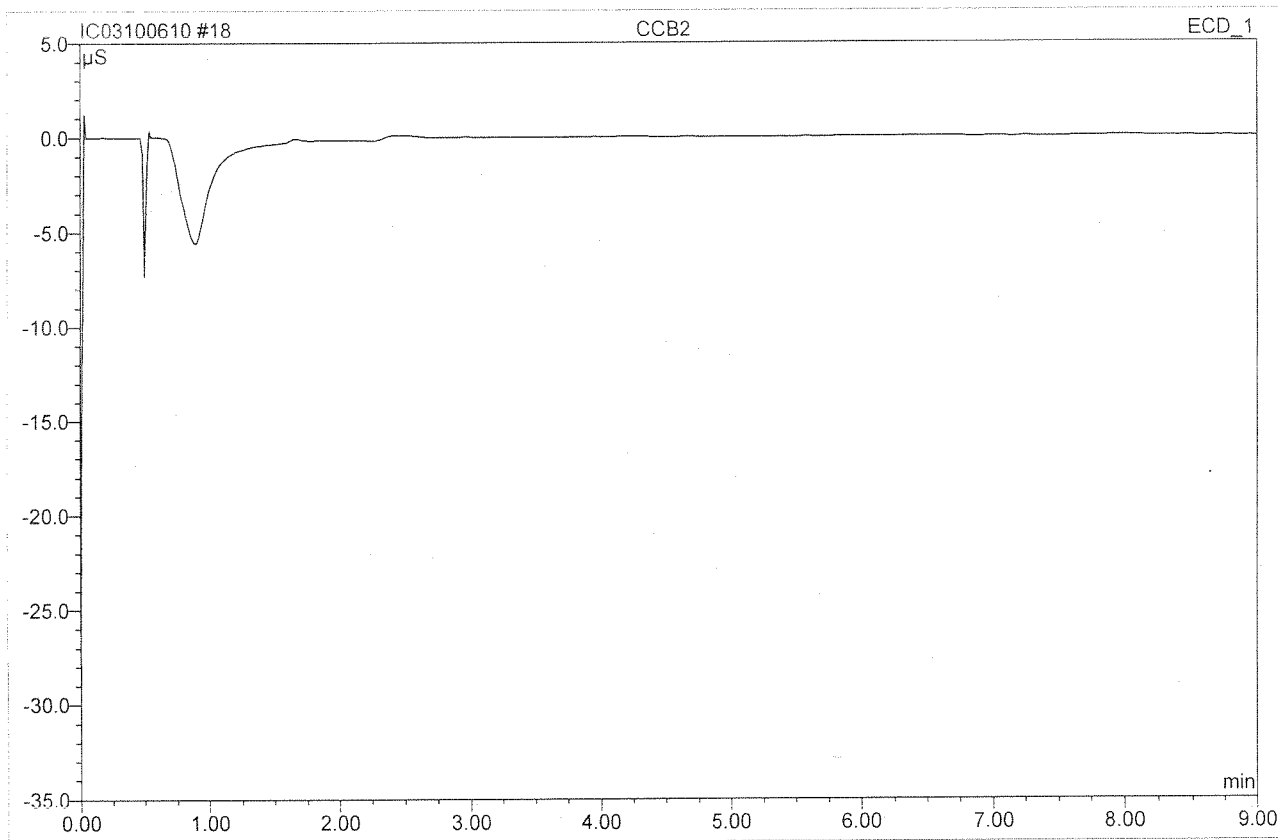
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.481	9.935	27.45	106 5.319	BMB*
2	2.48	Chloride	51.165	7.378	20.39	95 4.753	BMB*
3	2.97	Nitrite	38.026	5.809	16.05	91 1.824	bMB
4	3.67	Bromide	6.329	1.013	2.80	96 1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.94	97 1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.37	97 4.866	BMB
<b>Total:</b>			226.802	36.189	100.00	20.608	

Alter Initials nb

OCT 06 2010

*nbakotich*

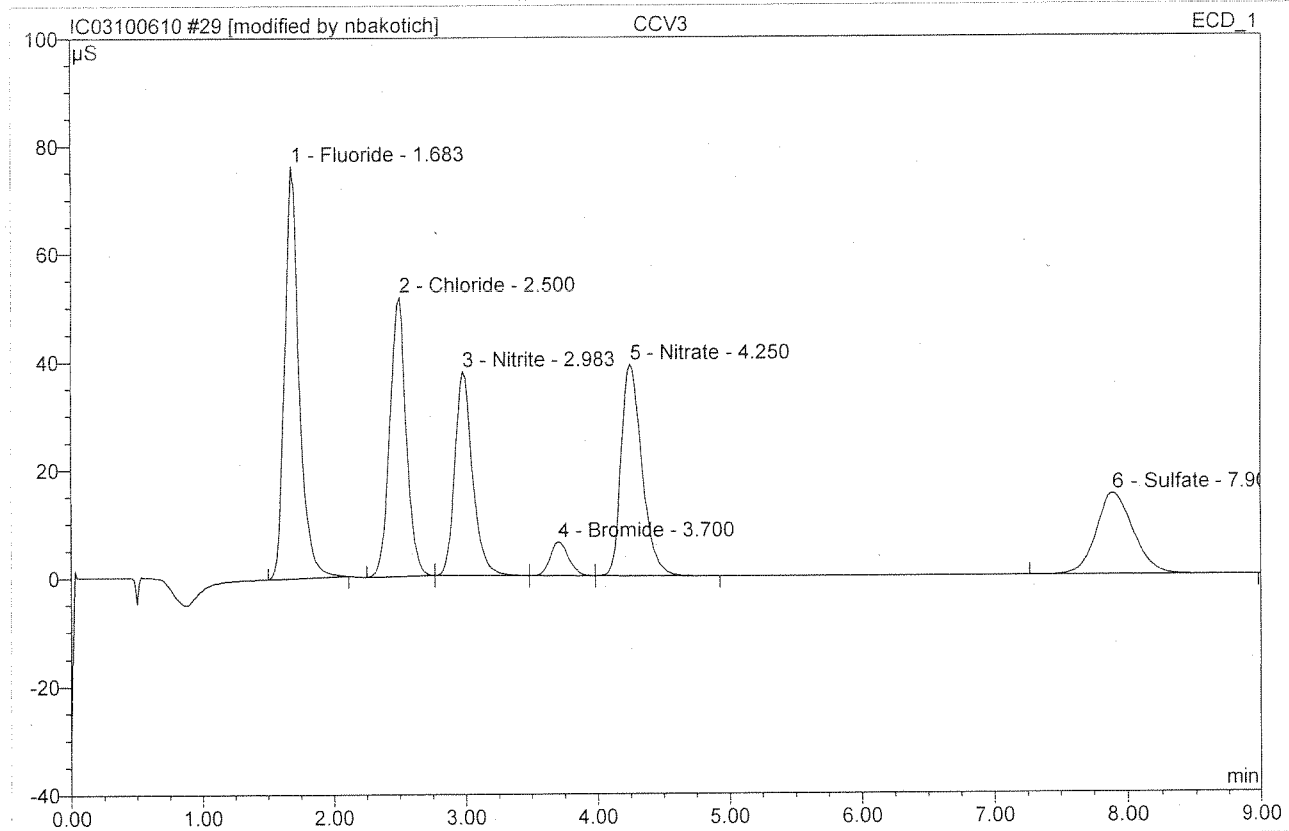
<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.352	9.836	27.22	103 5.266	BMB*
2	2.50	Chloride	51.638	7.422	20.54	96 4.781	BMb*
3	2.98	Nitrite	37.837	5.849	16.19	92 1.837	bMb
4	3.70	Bromide	6.328	1.023	2.83	97 1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.91	97 1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.31	97 4.835	BMB
<b>Total:</b>			226.475	36.128	100.00	20.576	

After Initials AB

OCT 06 2010

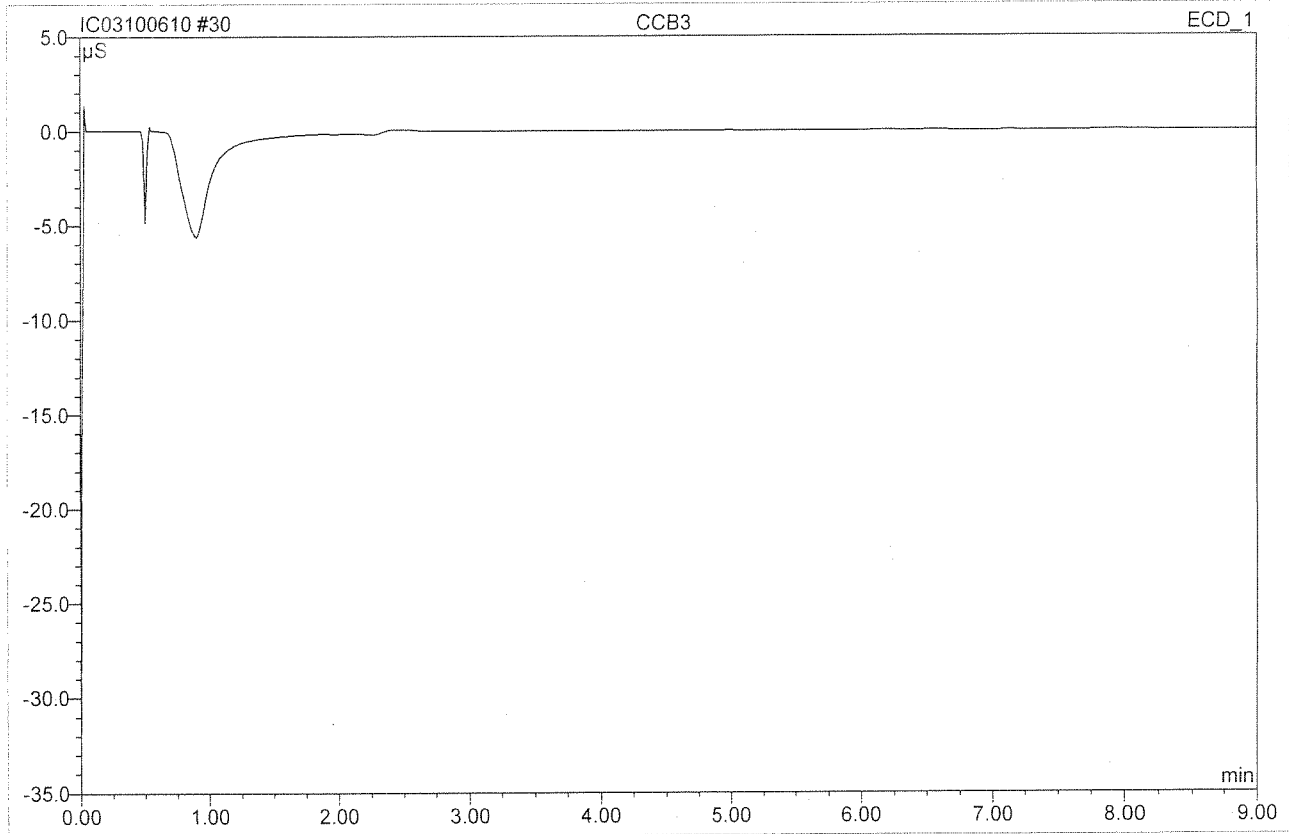
*[Handwritten signature]*

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>30 CCB3</b>			
<b>CCB3</b>			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

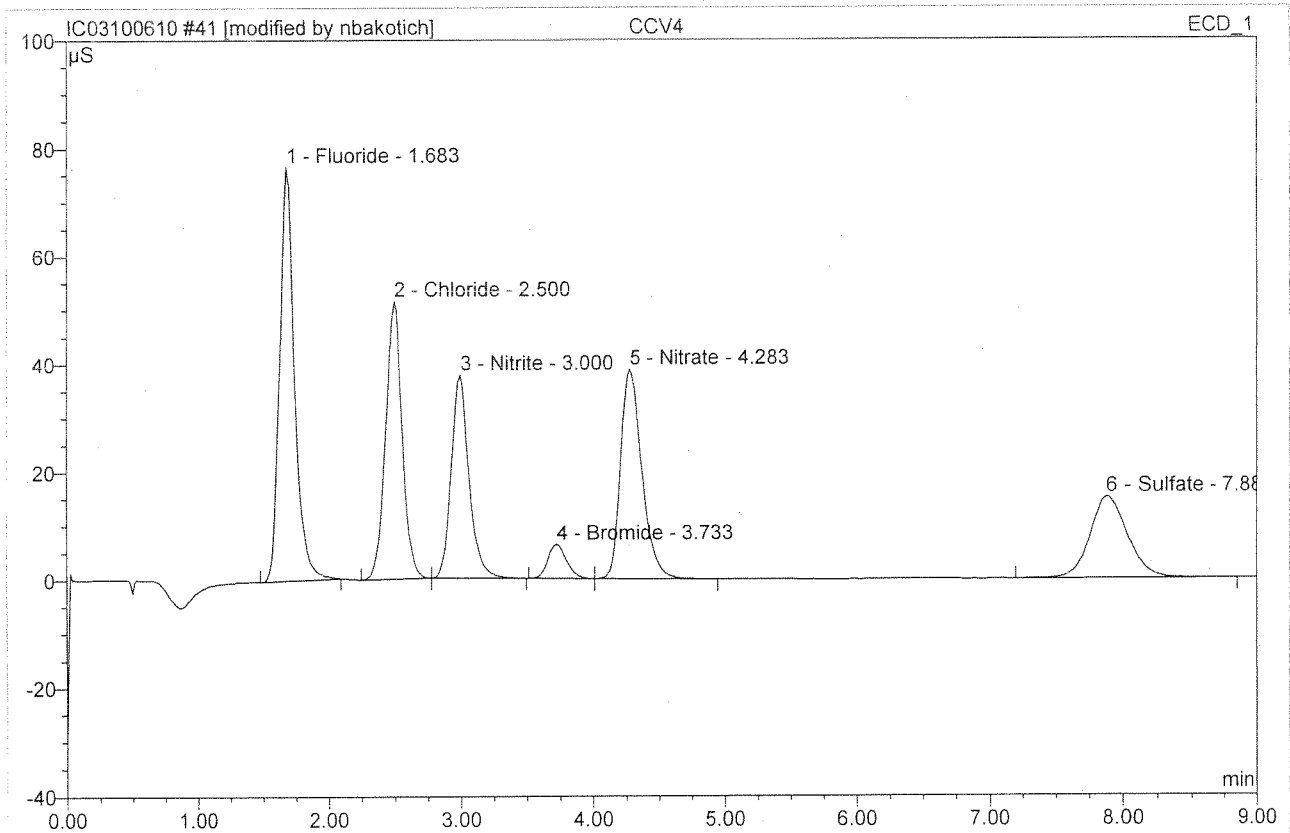


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*



<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.621	9.971	27.38	107 5.338	BMB*
2	2.50	Chloride	51.511	7.452	20.46	96 4.801	BMB*
3	3.00	Nitrite	37.649	5.811	15.96	92 1.825	bMB
4	3.73	Bromide	6.284	1.024	2.81	97 1.933	BMb
5	4.28	Nitrate	38.842	7.306	20.06	98 1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.33	98 4.883	BMB
<b>Total:</b>			226.049	36.419	100.00	20.737	

After Initials nb

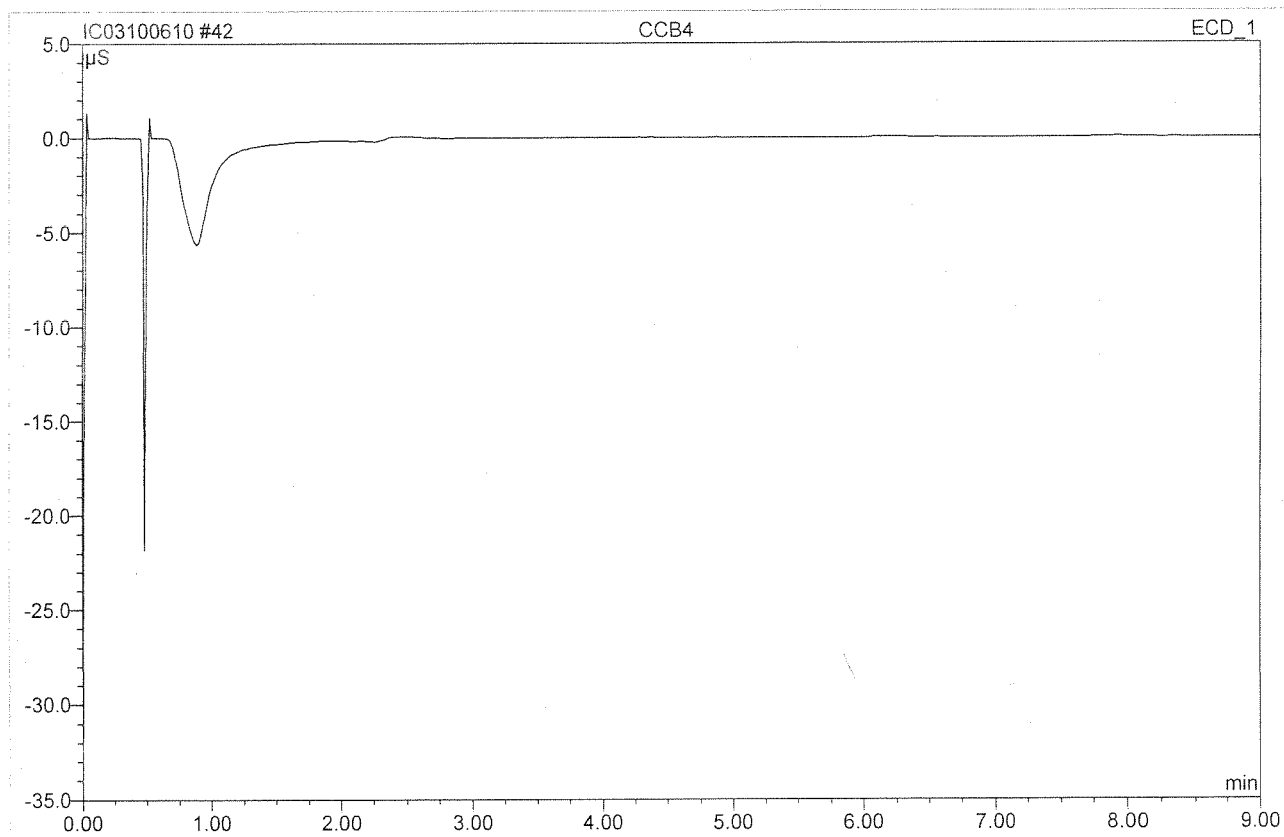
OCT 06 2010

*nbakotich*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other 116

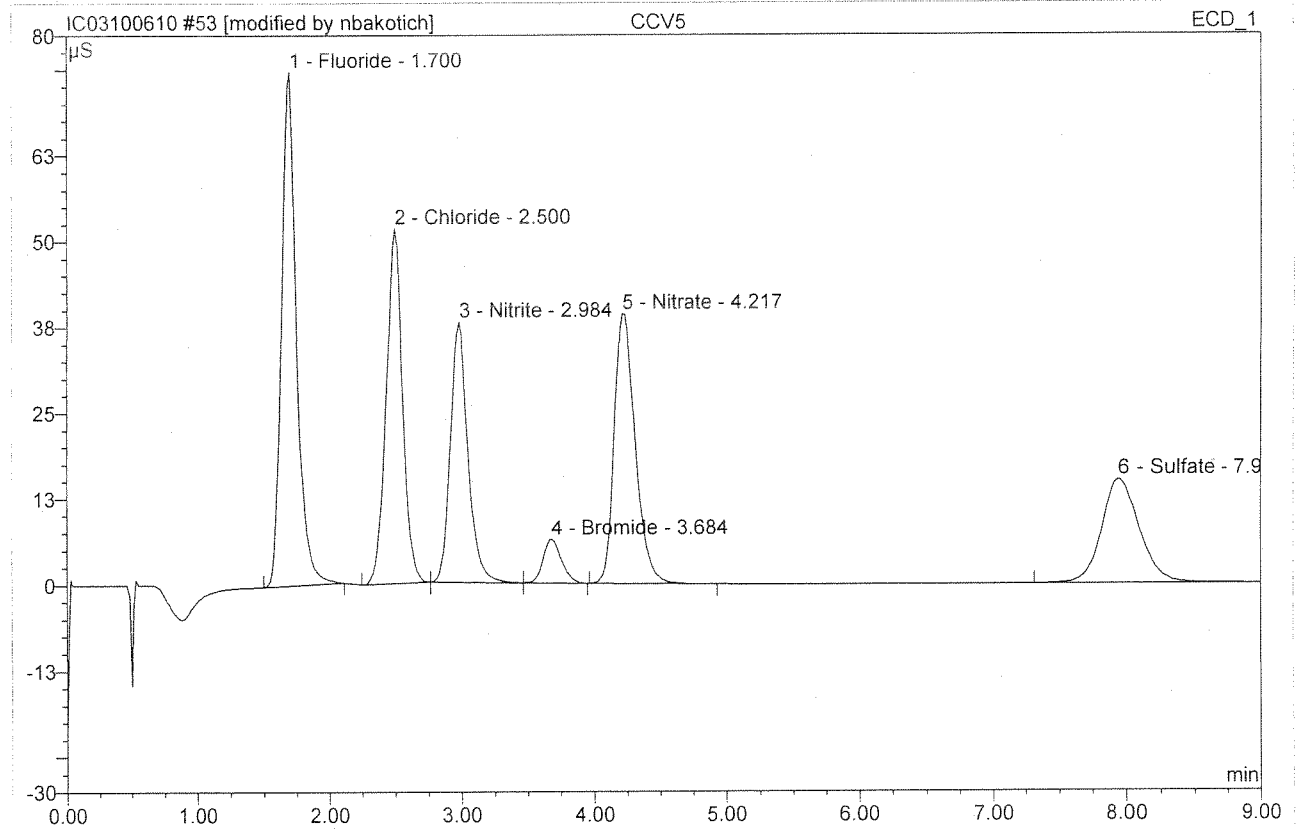
<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:15	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K. K. K.*

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



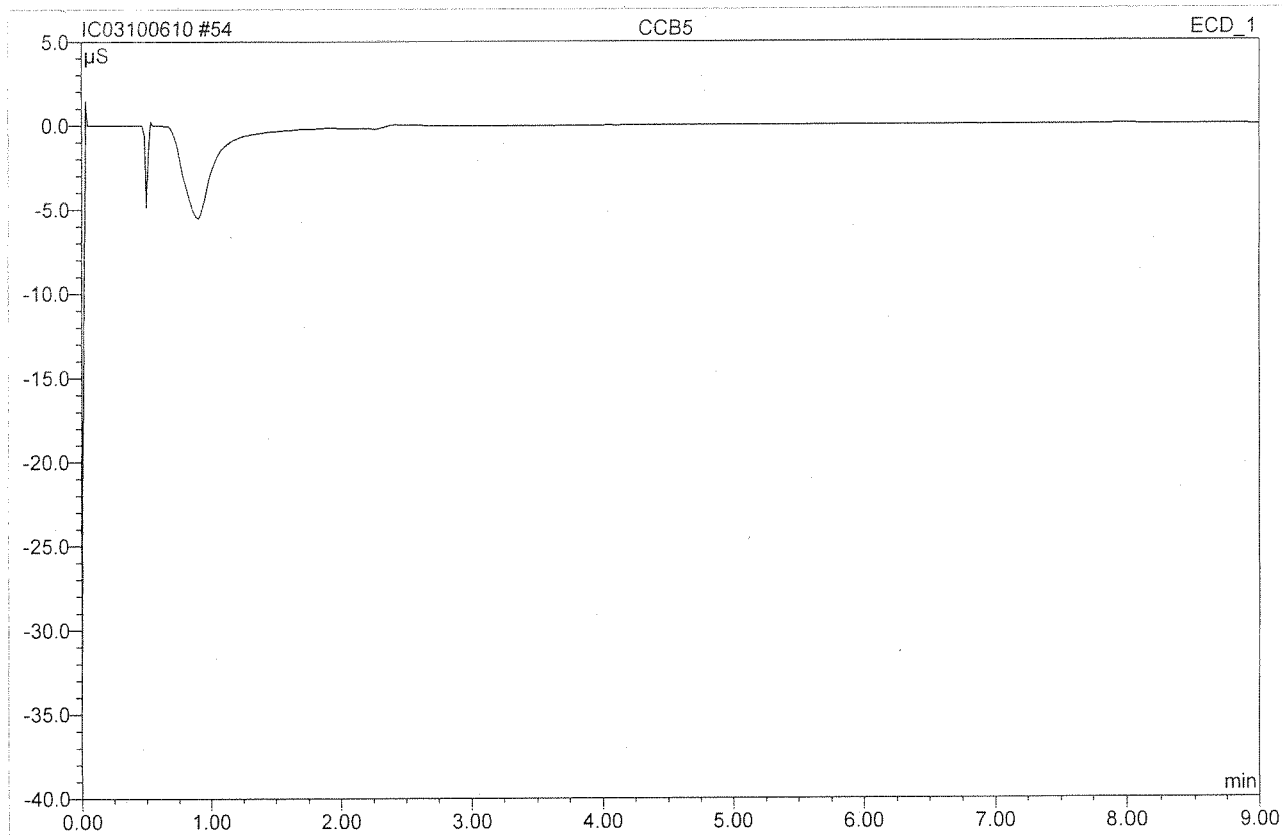
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.796	9.803	27.24	105 5.249	BMB*
2	2.50	Chloride	51.686	7.355	20.44	95 4.738	BMB*
3	2.98	Nitrite	37.927	5.786	16.08	91 1.817	bMb
4	3.68	Bromide	6.355	1.014	2.82	96 1.914	bMB
5	4.22	Nitrate	39.294	7.218	20.06	97 1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.36	97 4.833	BMB
<b>Total:</b>			225.182	35.982	100.00	20.484	

After Initials nb

OCT 07 2010

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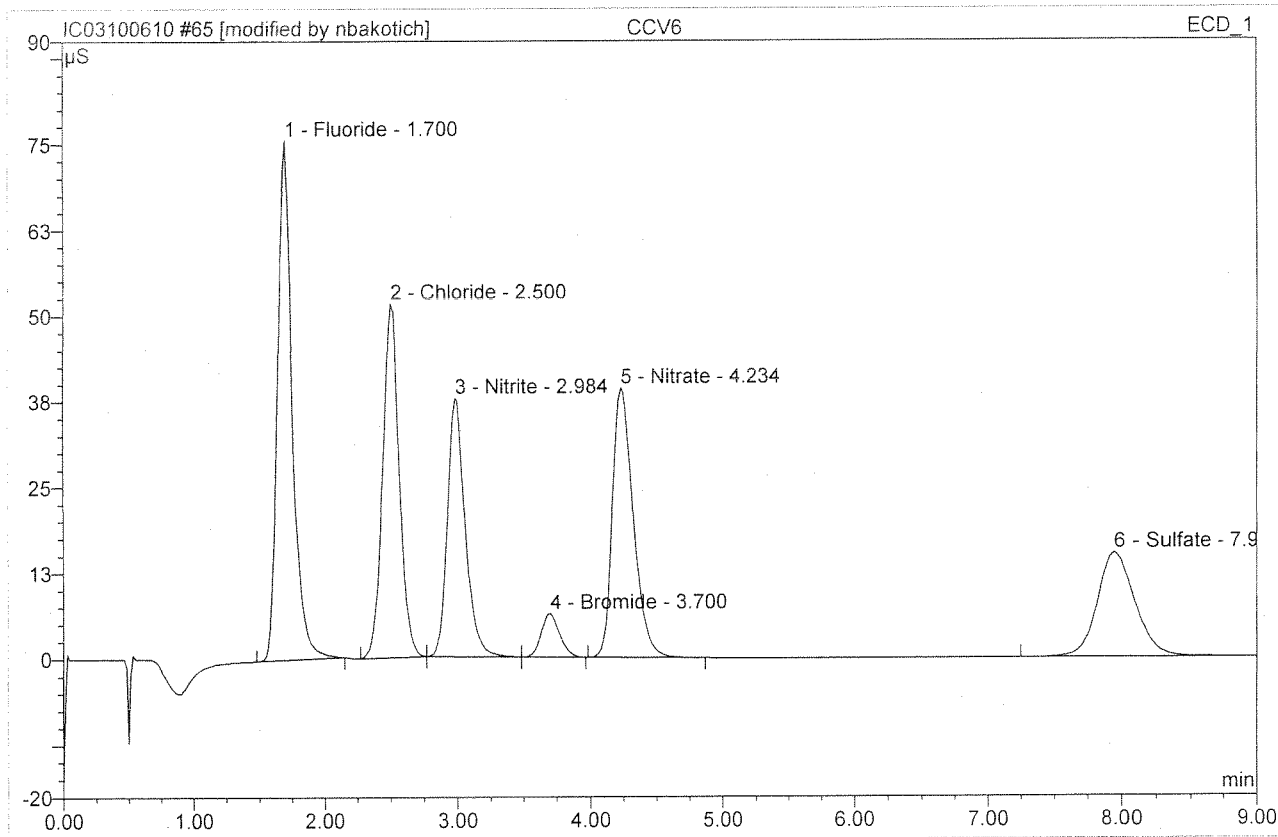
<b>54 CCB5</b>			
<b>CCB5</b>			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



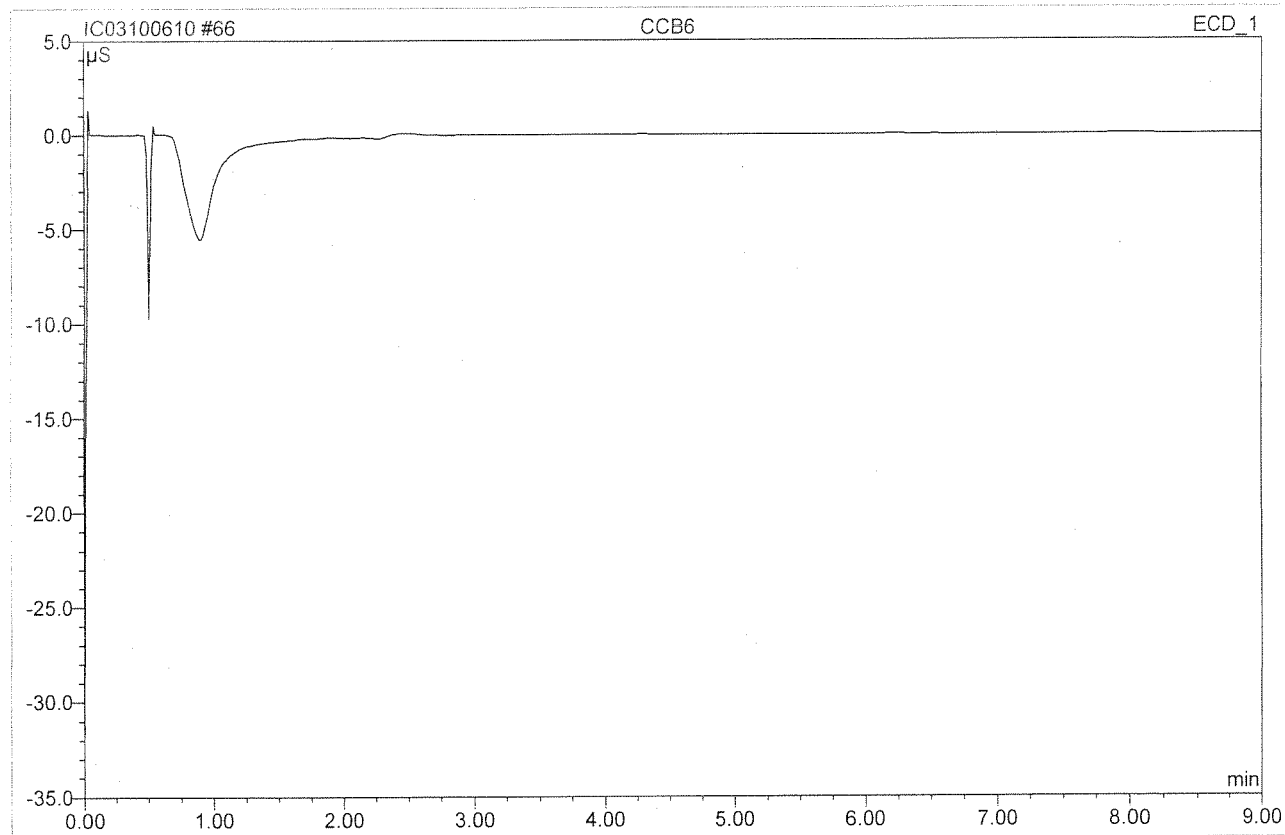
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.639	9.889	27.36	106 5.295	BMB*
2	2.50	Chloride	51.552	7.375	20.41	95 4.751	BMB*
3	2.98	Nitrite	37.632	5.836	16.15	92 1.833	bMb
4	3.70	Bromide	6.321	1.017	2.81	96 1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.91	97 1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.36	97 4.858	BMB
<b>Total:</b>			225.622	36.144	100.00	20.583	

After Initials nb

OCT 07 2010

*KT*

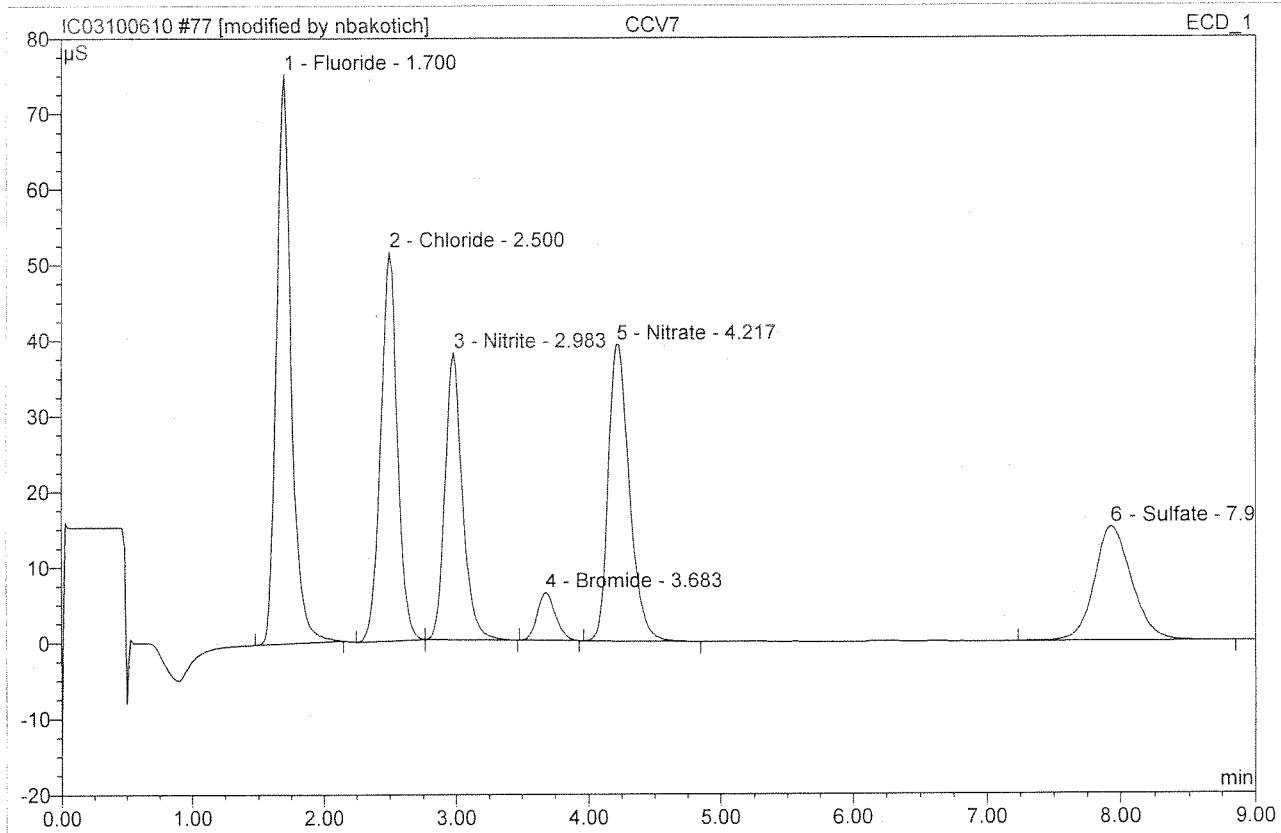
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K Wolfe*

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.379	9.799	27.20	105 5.246	BMB*
2	2.50	Chloride	51.460	7.403	20.55	95 4.769	BMB*
3	2.98	Nitrite	37.983	5.802	16.11	91 1.822	bMB*
4	3.68	Bromide	6.348	1.012	2.81	96 1.910	BMB*
5	4.22	Nitrate	39.249	7.207	20.01	97 1.931	BMB*
6	7.93	Sulfate	15.146	4.801	13.33	97 4.828	BMB
<b>Total:</b>			225.565	36.023	100.00	20.506	

After Initials nb

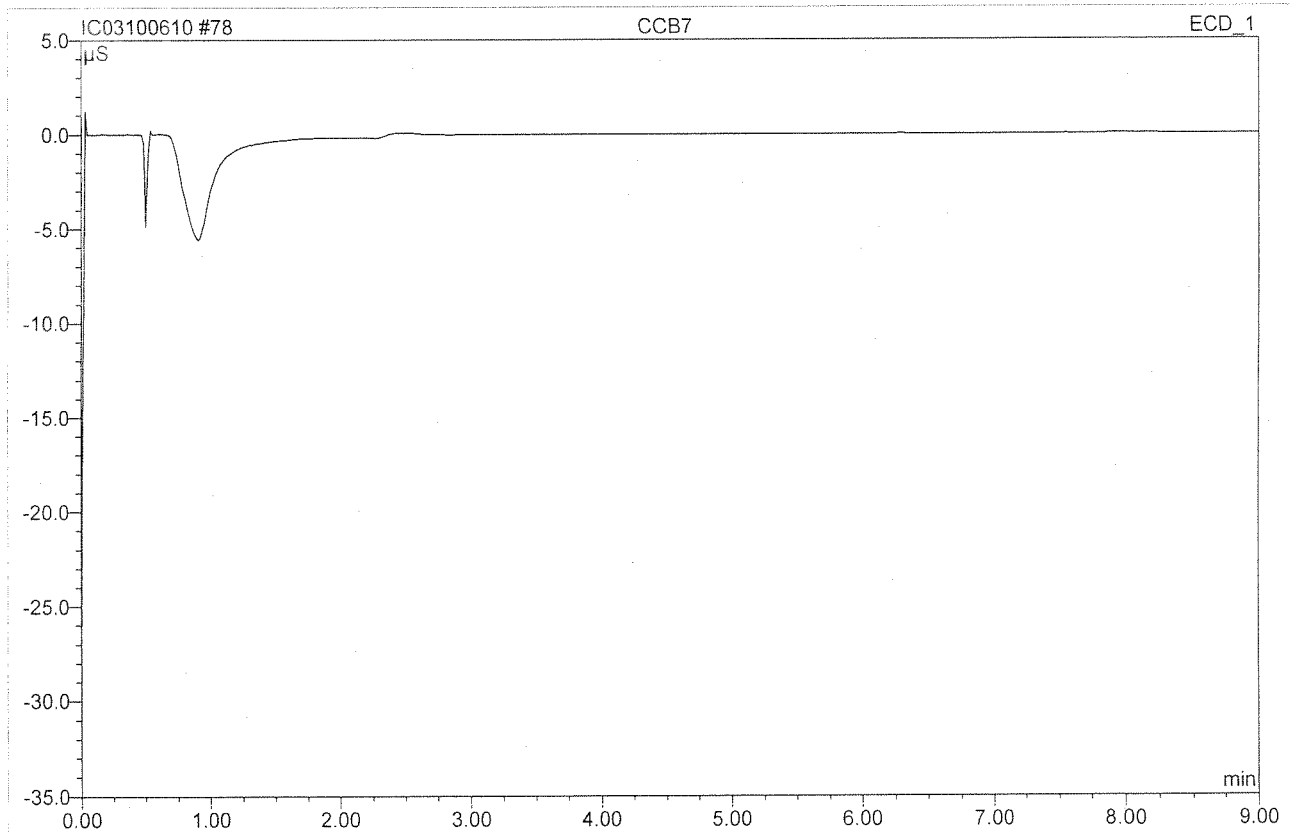
*Handwritten signature/initials*

OCT 07 2010

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder incorrect
- Other

<b>78 CCB7</b>			
<b>CCB7</b>			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	77	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

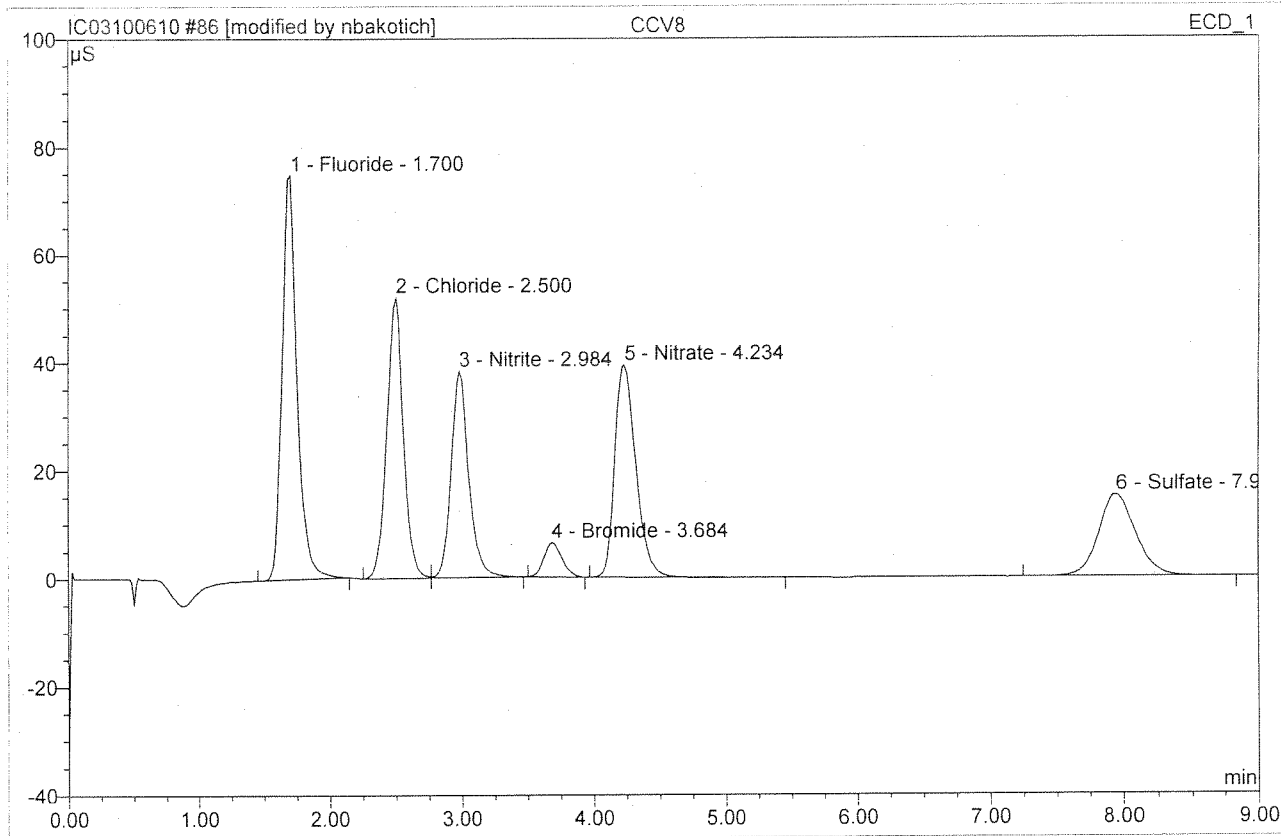


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*nbakotich*



<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.858	9.853	27.19	106 5.275	BMB*
2	2.50	Chloride	51.883	7.456	20.57	96 4.803	BM *
3	2.98	Nitrite	38.232	5.908	16.30	93 1.855	MB*
4	3.68	Bromide	6.335	1.006	2.77	95 1.898	BMB*
5	4.23	Nitrate	39.347	7.204	19.88	97 1.930	BMB*
6	7.95	Sulfate	15.181	4.814	13.28	97 4.842	BMB
<b>Total:</b>			225.835	36.241	100.00	20.603	

After Initials AB

OCT 07 2010

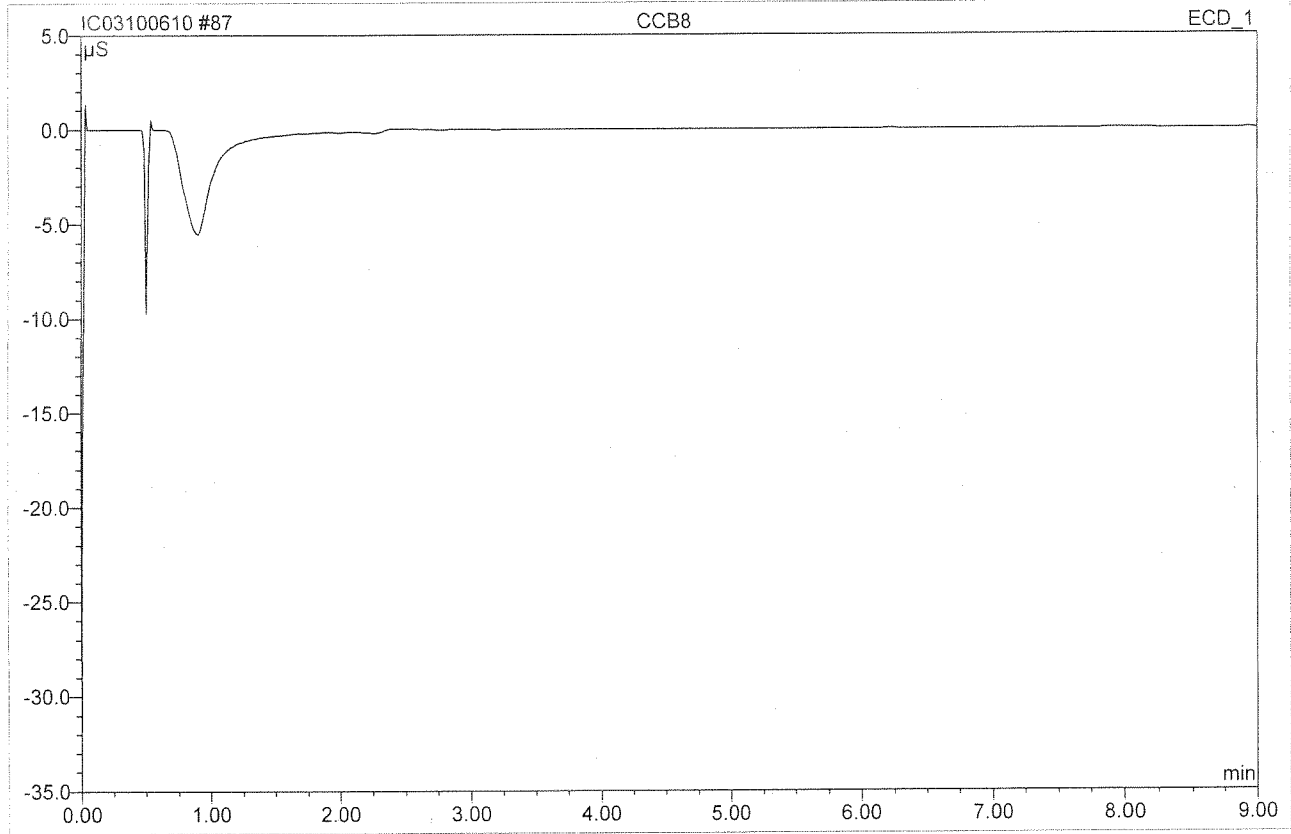
*K. Bakotich*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 124

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

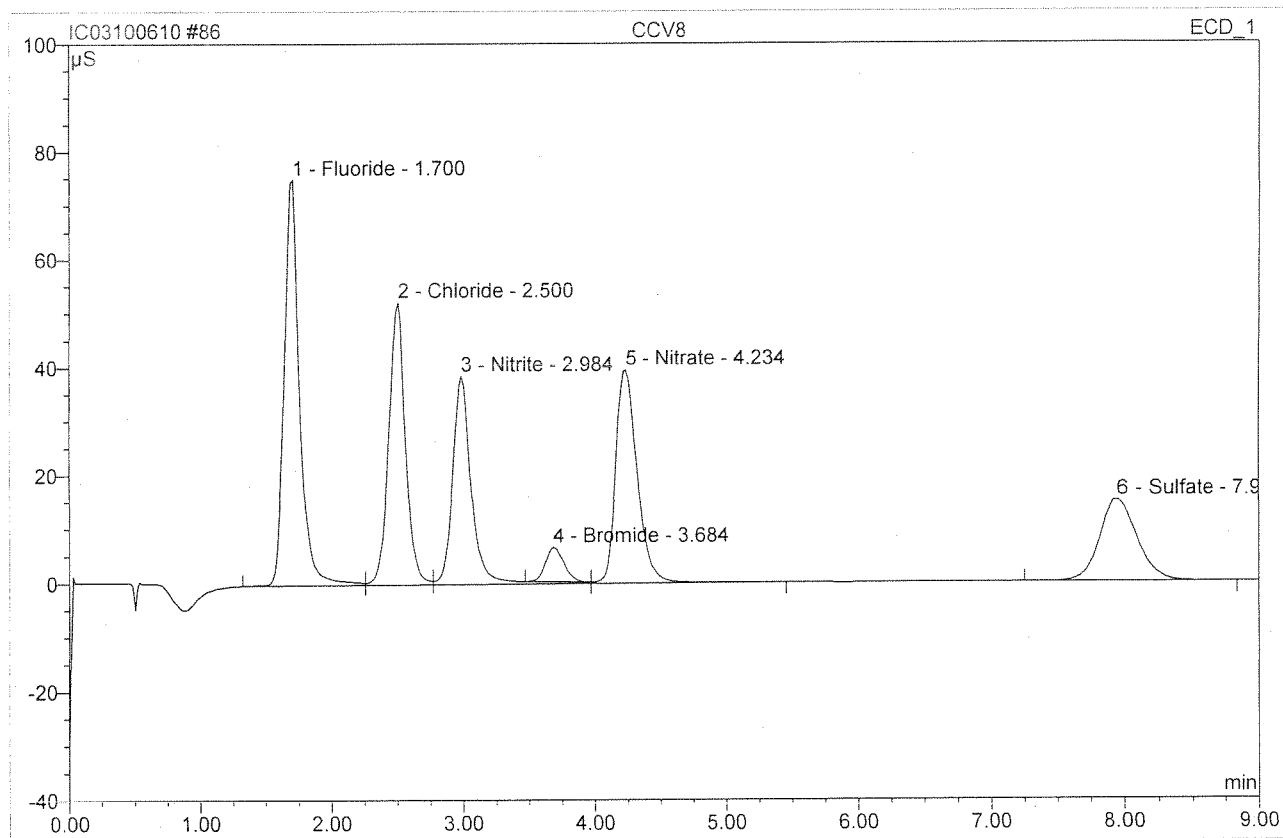
<b>87 CCB8</b>			
<b>CCB8</b>			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	82	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*H. Bakotich*

<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

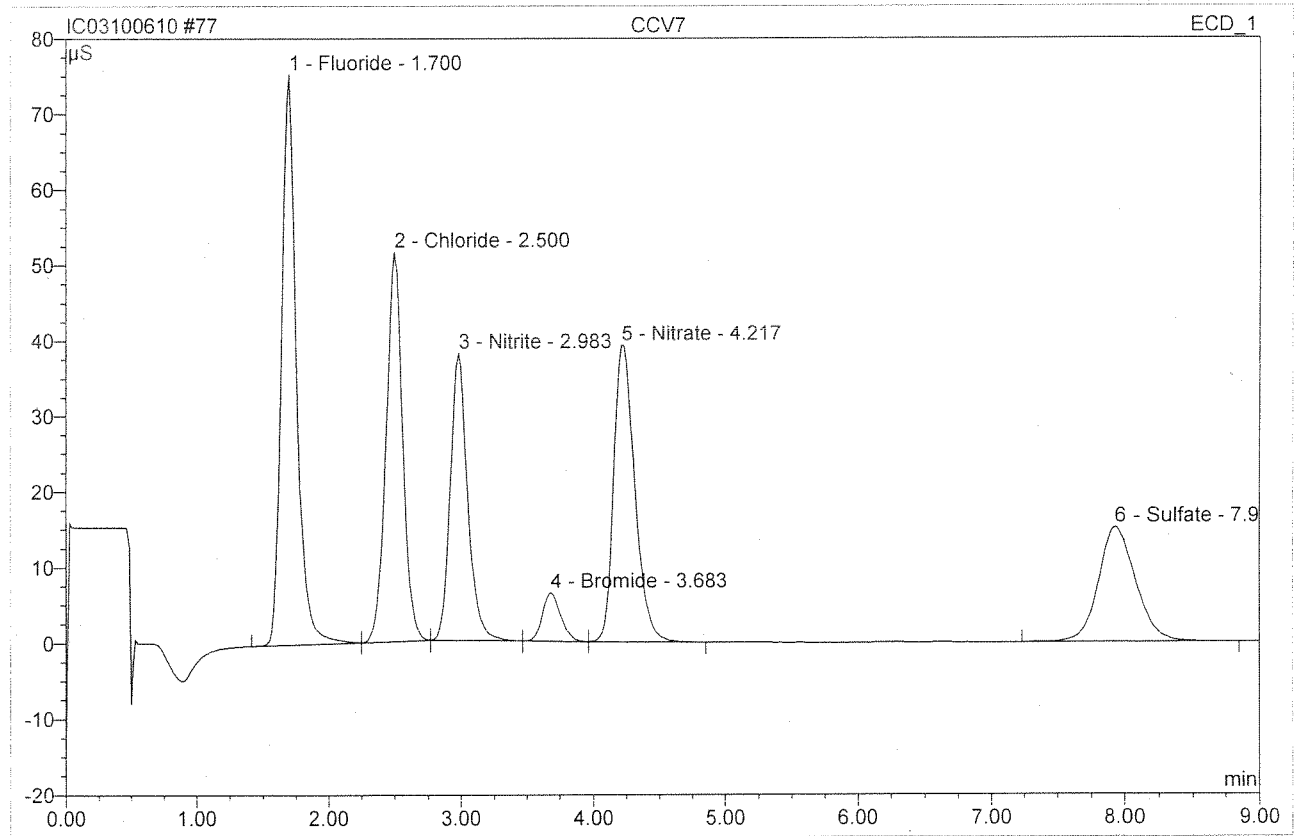


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.160	10.177	27.07	5.449	BM
2	2.50	Chloride	52.327	7.686	20.44	4.951	M
3	2.98	Nitrite	38.704	6.452	17.16	2.026	M
4	3.68	Bromide	6.367	1.020	2.71	1.925	Rd
5	4.23	Nitrate	39.615	7.446	19.81	1.995	MB
6	7.95	Sulfate	15.181	4.814	12.81	4.842	BMB
<b>Total:</b>			227.355	37.595	100.00	21.188	

Before

OCT 07 2010

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

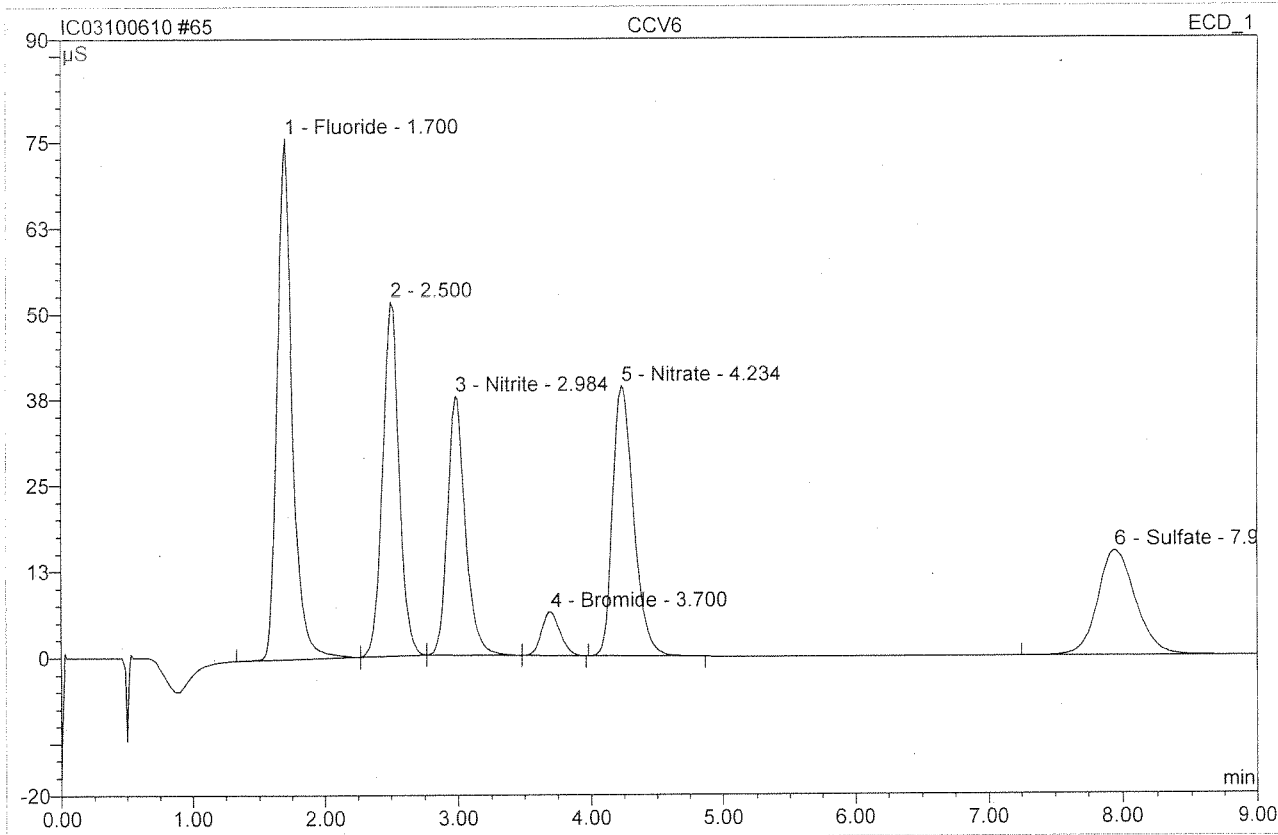


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.470	9.897	27.39	5.299	BMB
2	2.50	Chloride	51.460	7.403	20.49	4.769	bMb
3	2.98	Nitrite	37.983	5.802	16.06	1.822	bMb
4	3.68	Bromide	6.364	1.020	2.82	1.925	bMb
5	4.22	Nitrate	39.249	7.207	19.95	1.931	bMB
6	7.93	Sulfate	15.146	4.801	13.29	4.828	BMB
<b>Total:</b>			225.673	36.130	100.00	20.574	

Before

OCT 07 2010

<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

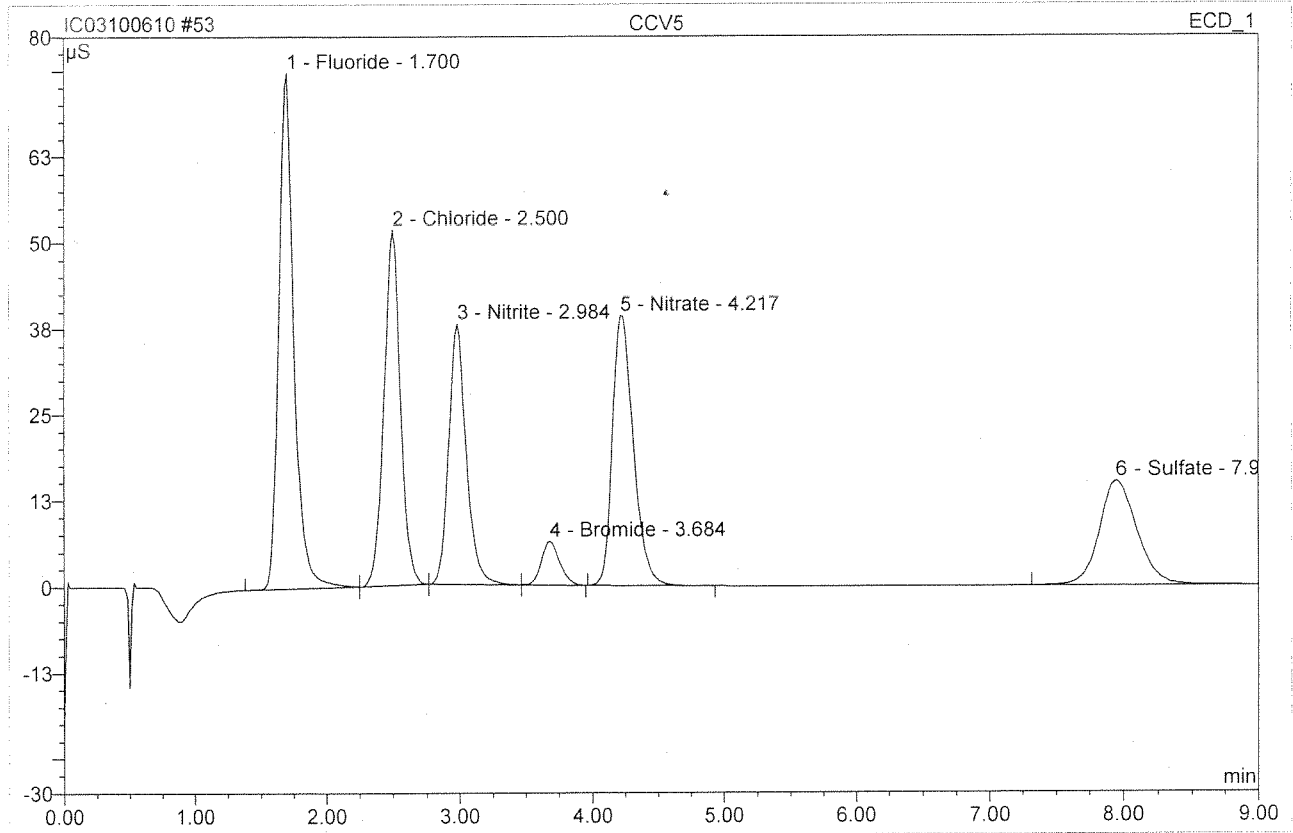


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.759	10.011	27.60	5.360	BMB
2	2.50	n.a.	51.552	7.375	20.34	n.a.	bMb
3	2.98	Nitrite	37.632	5.836	16.09	1.833	bMb
4	3.70	Bromide	6.321	1.017	2.80	1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.85	1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.32	4.858	BMB
<b>Total:</b>			225.742	36.266	100.00	15.897	

Before

10/7/2010

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

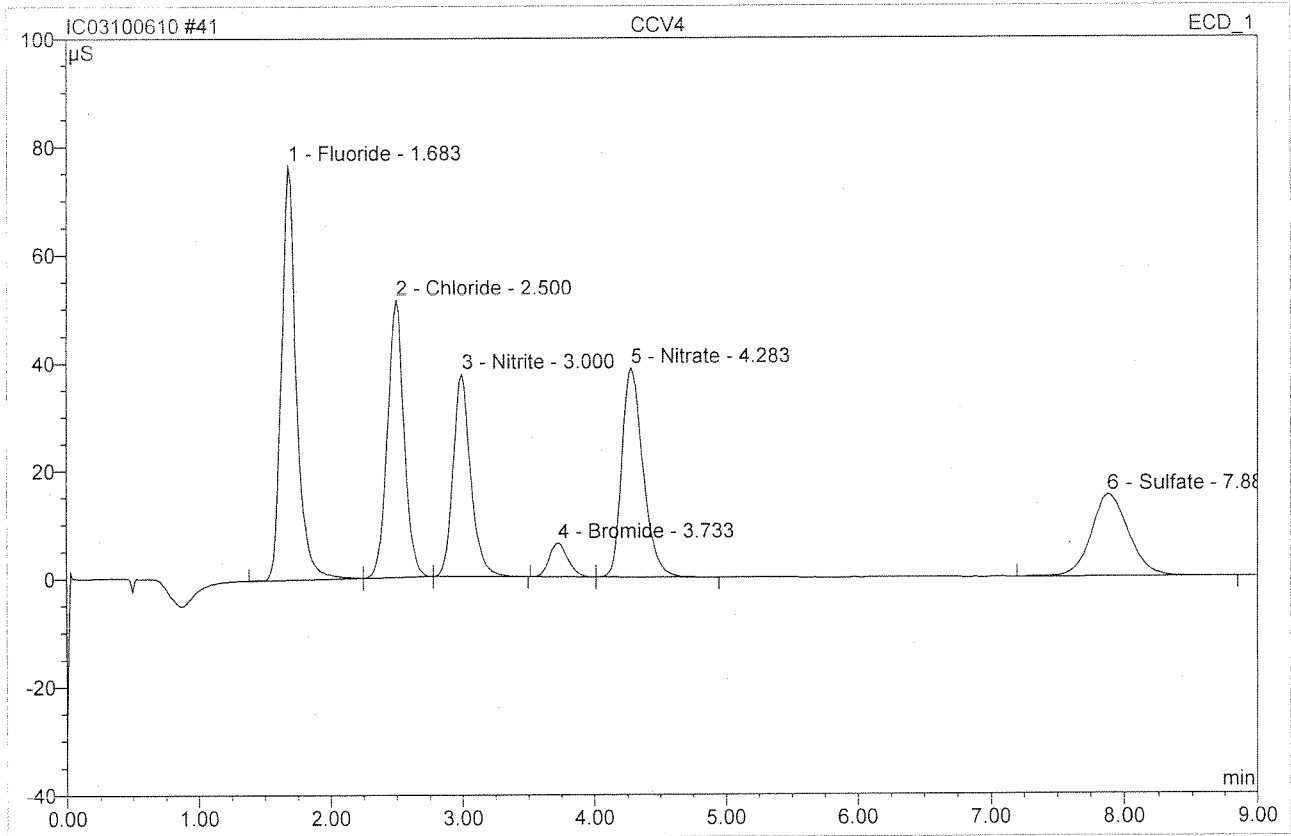


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.932	9.941	27.52	5.323	BMb
2	2.50	Chloride	51.686	7.355	20.36	4.738	bMb
3	2.98	Nitrite	37.927	5.786	16.02	1.817	bMb
4	3.68	Bromide	6.355	1.014	2.81	1.914	bMB
5	4.22	Nitrate	39.294	7.218	19.98	1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.30	4.833	BMB
<b>Total:</b>			225.318	36.120	100.00	20.558	

Before

OCT 07 2010

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

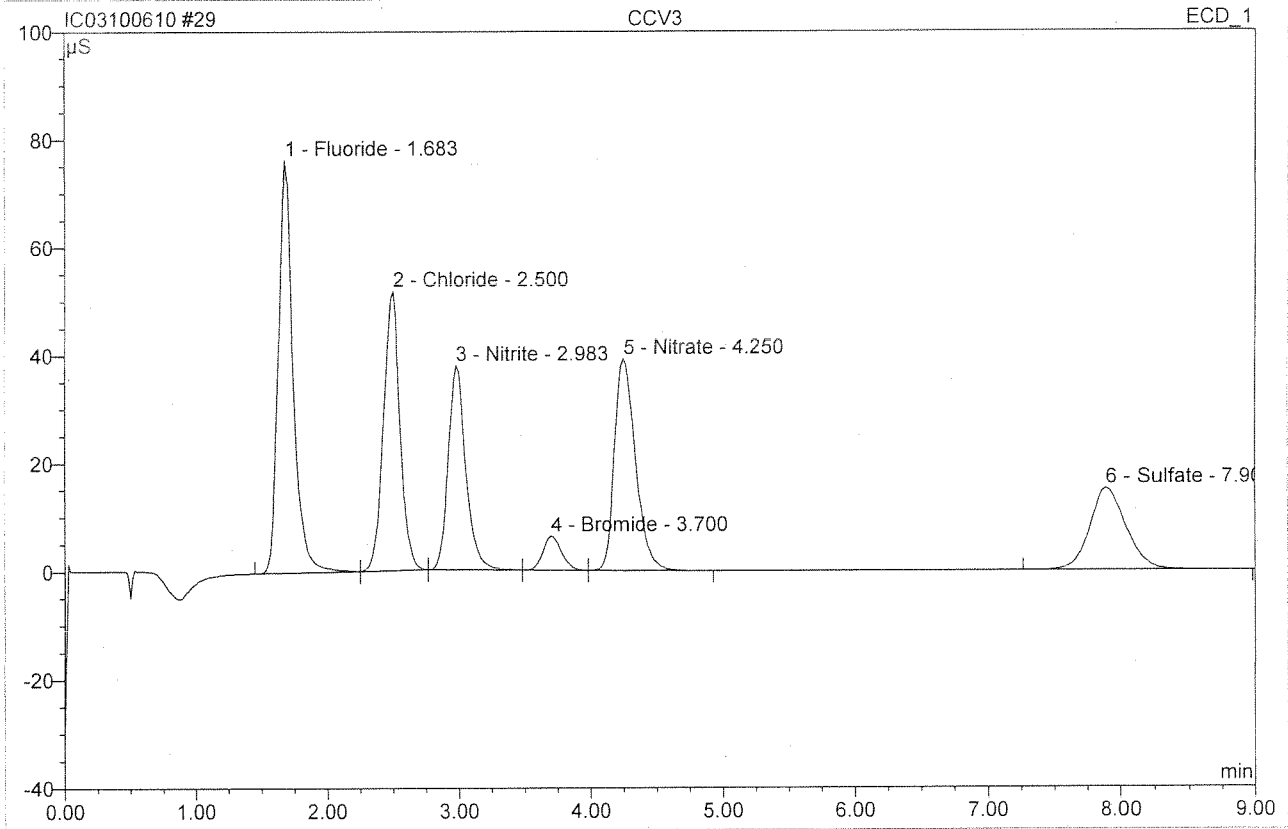


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.763	10.122	27.68	5.419	BMb
2	2.50	Chloride	51.511	7.452	20.38	4.801	bMb
3	3.00	Nitrite	37.649	5.811	15.89	1.825	bMB
4	3.73	Bromide	6.284	1.024	2.80	1.933	BMb
5	4.28	Nitrate	38.842	7.306	19.98	1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.28	4.883	BMB
<b>Total:</b>			226.191	36.570	100.00	20.817	

Before

OCT 06 2010

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



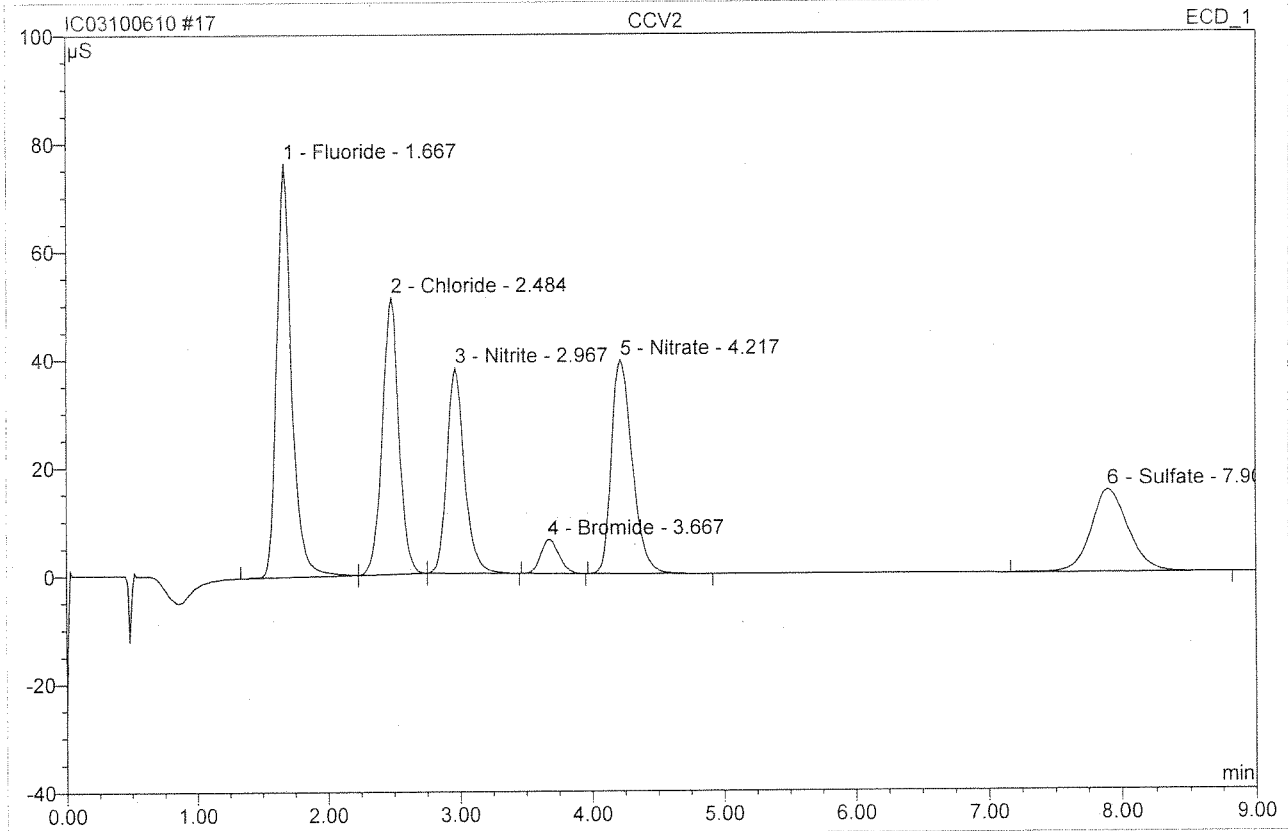
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.476	9.962	27.48	5.334	BMB
2	2.50	Chloride	51.638	7.422	20.47	4.781	bMb
3	2.98	Nitrite	37.837	5.849	16.13	1.837	bMb
4	3.70	Bromide	6.328	1.023	2.82	1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.84	1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.26	4.835	BMB
<b>Total:</b>			226.600	36.255	100.00	20.644	

Before

OCT 06 2010



<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



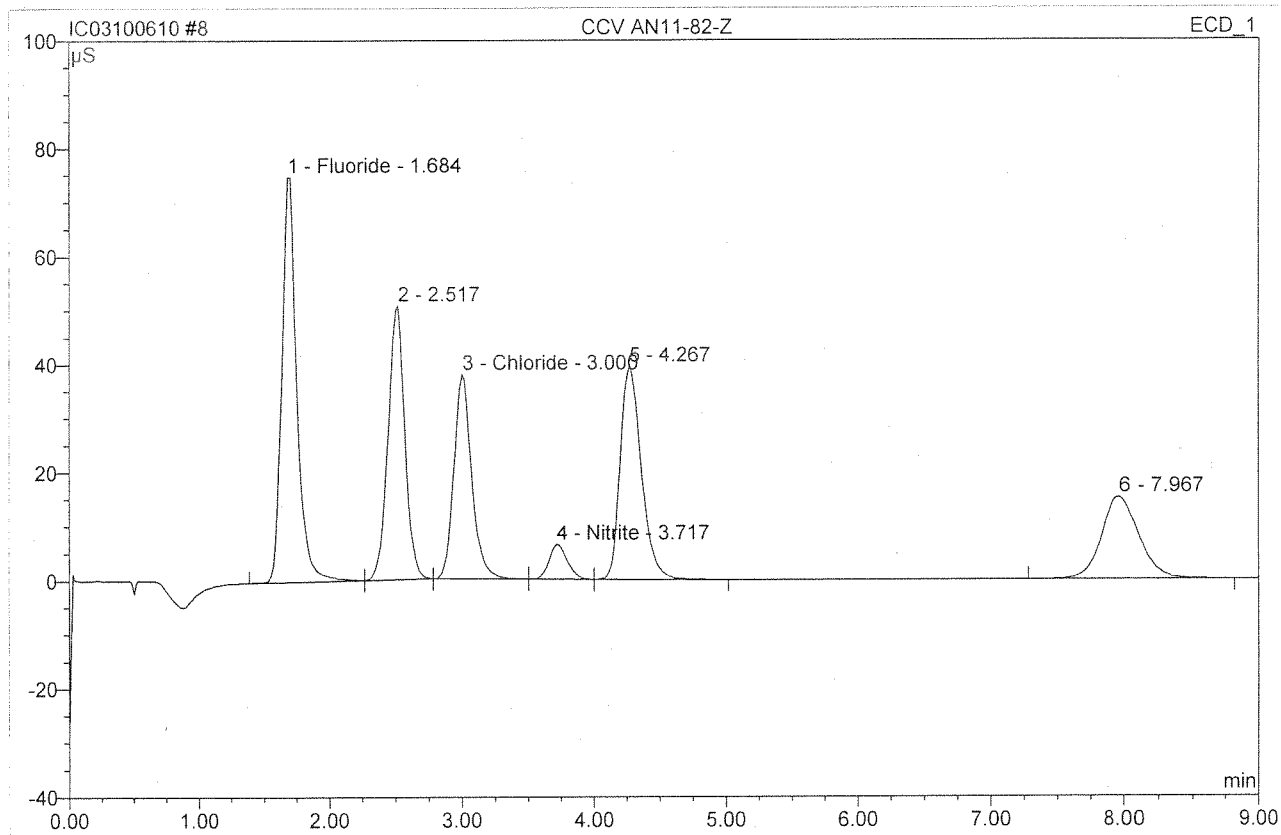
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.614	10.072	27.73	5.393	BMb
2	2.48	Chloride	51.165	7.378	20.31	4.753	bMb
3	2.97	Nitrite	38.026	5.809	15.99	1.824	bMB
4	3.67	Bromide	6.329	1.013	2.79	1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.86	1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.32	4.866	BMB
<b>Total:</b>			226.935	36.325	100.00	20.681	

Before

OCT 06 2010

### 8 CCV AN11-82-Z

Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



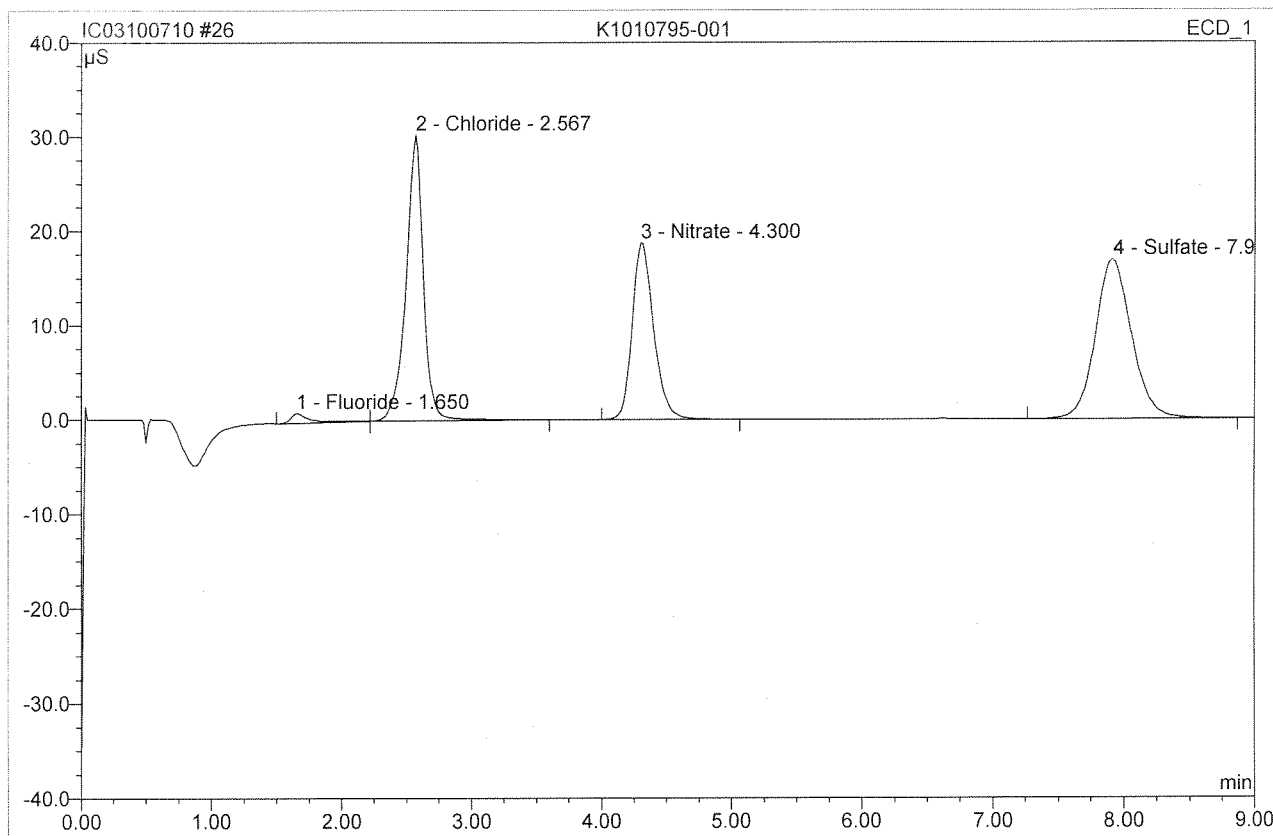
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.906	10.035	27.65	5.373	BMB
2	2.52	n.a.	50.609	7.361	20.28	n.a.	bMb
3	3.00	Chloride	37.787	5.832	16.07	3.757	bMb
4	3.72	Nitrite	6.350	1.019	2.81	0.320	bMb
5	4.27	n.a.	39.378	7.237	19.94	n.a.	bMB
6	7.97	n.a.	15.179	4.809	13.25	n.a.	BMB
<b>Total:</b>			224.208	36.293	100.00	9.450	

Before

OCT 06 2010

**26 K1010795-001**

Sample Name:	K1010795-001	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 12:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

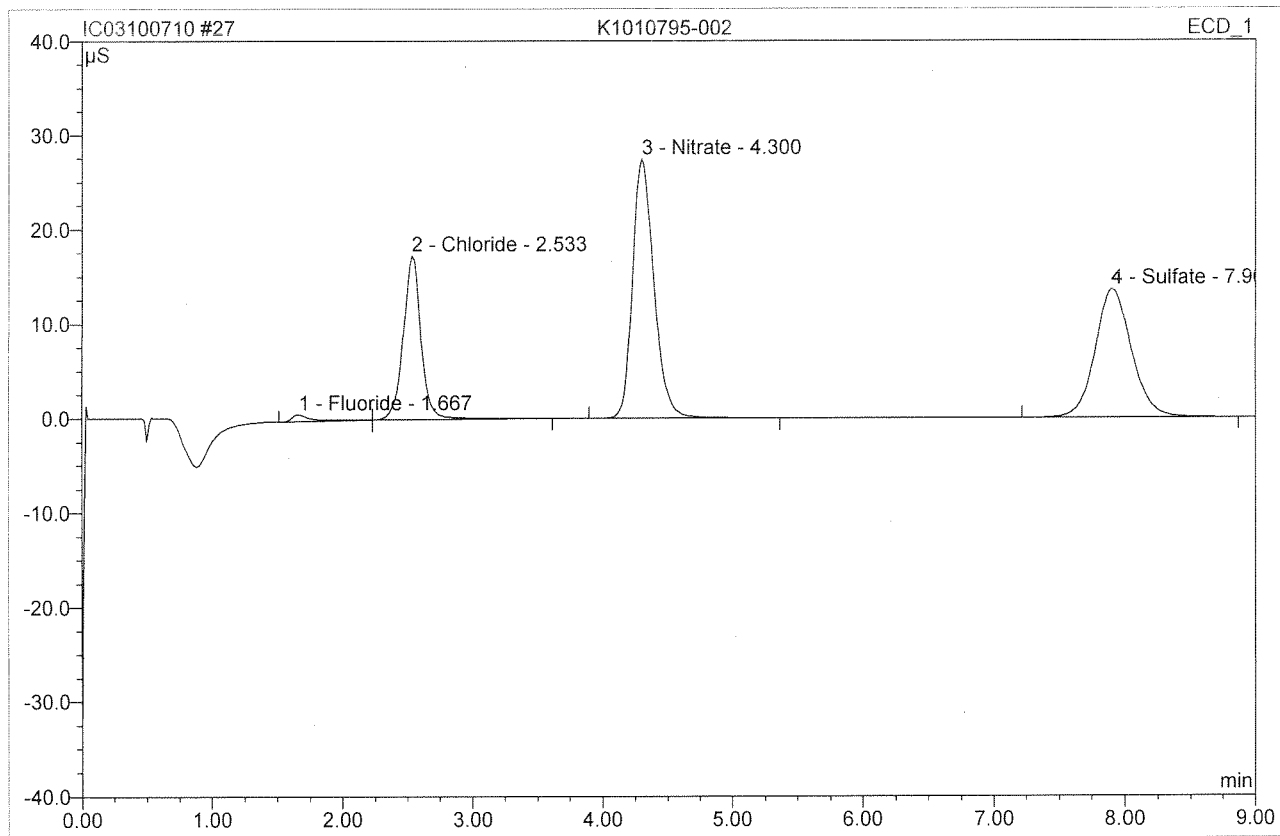


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	1.038	0.179	1.29	0.479	BMB
2	2.57	Chloride	30.297	4.703	33.91	15.149	bMB
3	4.30	Nitrate	18.642	3.601	25.96	4.823	BMB
4	7.92	Sulfate	16.826	5.387	38.84	27.087	BMB
<b>Total:</b>			66.803	13.870	100.00	47.539	

*K. J. J.*

**27 K1010795-002**

Sample Name:	K1010795-002	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 12:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

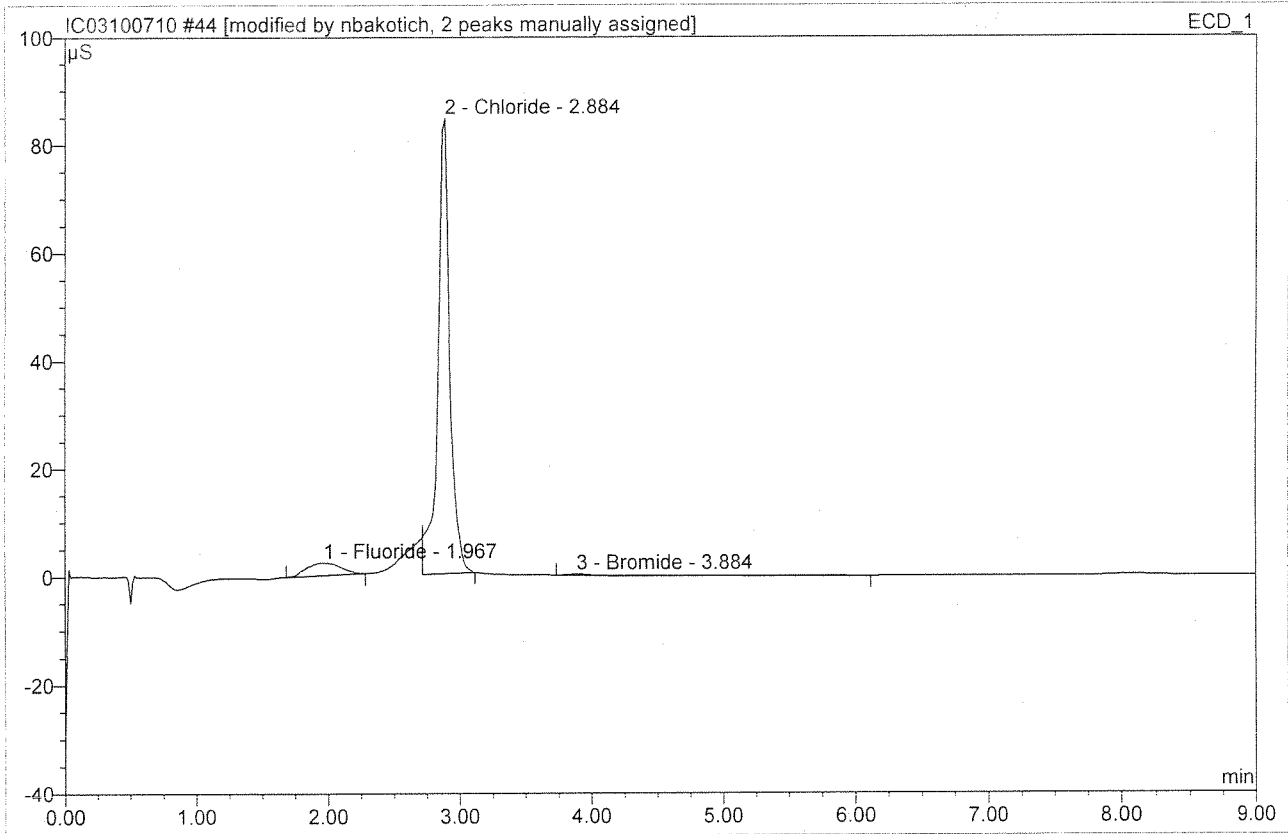


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	0.757	0.137	1.10	0.734	BMB
2	2.53	Chloride	17.313	2.772	22.19	17.856	bMB
3	4.30	Nitrate	27.438	5.245	41.99	14.050	BMB
4	7.90	Sulfate	13.573	4.336	34.72	43.607	BMB
<b>Total:</b>			59.079	12.490	100.00	76.247	

*K. Bakotich*

**44 K1011162-003**

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 16:06	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride $\bar{x}=0.73$ RPD=7	2.328	0.703	7.37	0.753	BMB*^
2	2.88	Chloride $\bar{x}=11.7$ RPD=8	84.206	8.771	91.89	11.300	MB*^
3	3.88	Bromide	0.201	0.071	0.74	0.267	BMB*
<b>Total:</b>			86.735	9.545	100.00	12.320	

$NO_2 < 0.10$   $< 0.10$  RPD  
 $NO_3 \downarrow$   $< 0.10$   
 $SO_4 < 0.20$   $< 0.20$

After Initials nb

OCT 08 2010

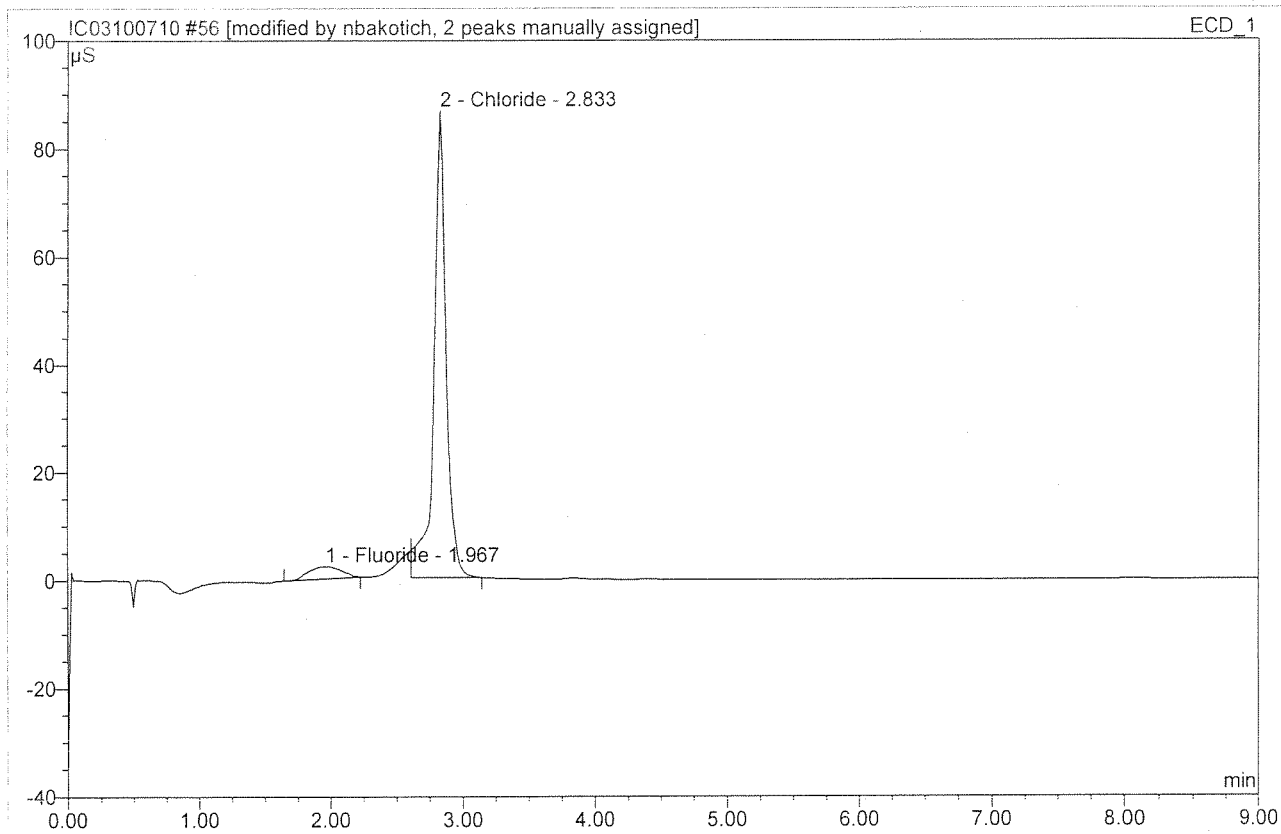
*Handwritten signature and date: 10/19/10*

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

**56 K1011162-003**

**D**

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 18:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	2.266	0.656	6.58	0.702	BMB*^
2	2.83	Chloride	86.410	9.308	93.42	11.992	MB*^
<b>Total:</b>			88.675	9.963	100.00	12.694	

NO<sub>2</sub> <0.10  
NO<sub>3</sub> ✓  
SO<sub>4</sub> <0.20

After Initials

AD

OCT 08 2010

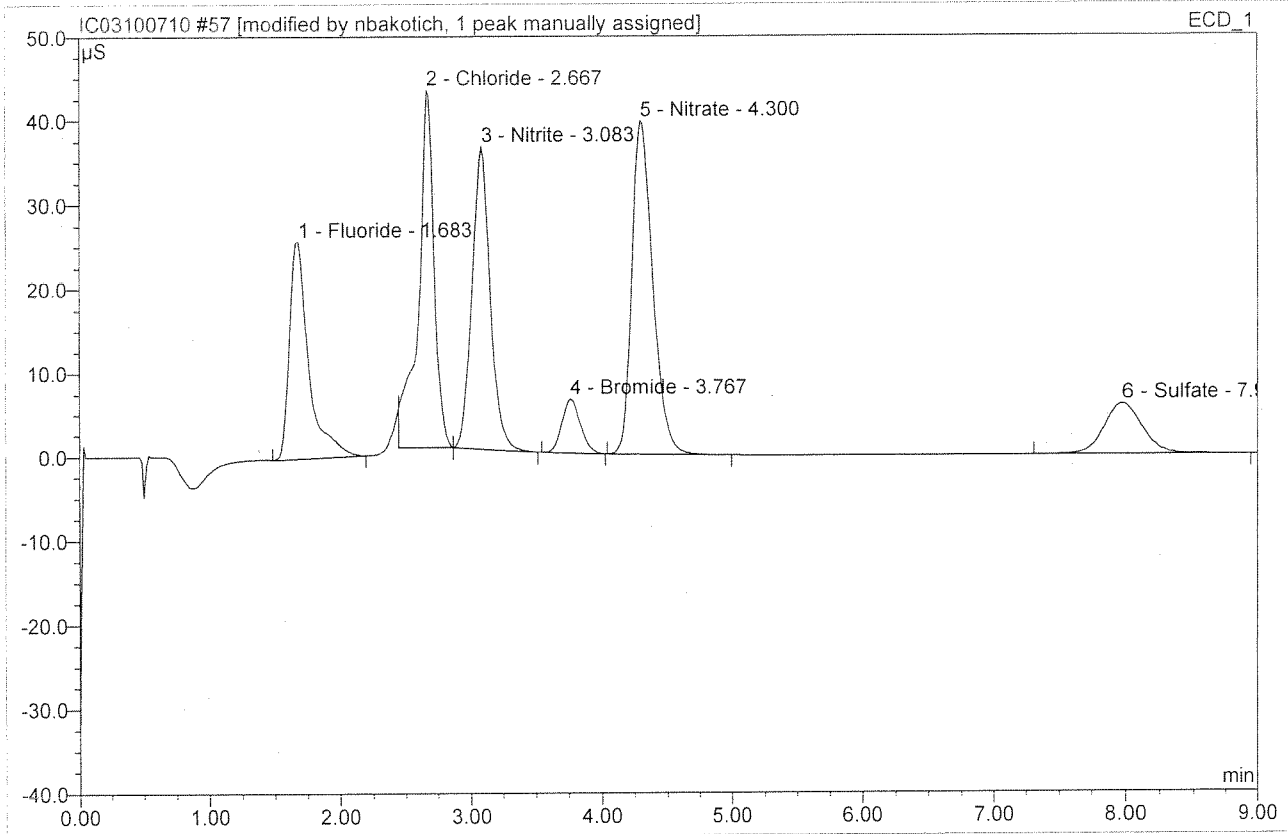
H. [signature]

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

**57 K1011162-003**

**MS**

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 18:35	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride <i>REC=117</i>	25.855	4.448	16.66	11.907	BMB*^
2	2.67	Chloride <i>REC=81</i>	42.556	6.018	22.55	19.385	Mb*
3	3.08	Nitrite <i>REC=91</i>	35.993	5.803	21.74	9.112	bMB
4	3.77	Bromide <i>REC=97</i>	6.484	1.060	3.97	10.000	BMB
5	4.30	Nitrate <i>REC=99</i>	39.681	7.418	27.79	9.936	BMB
6	7.98	Sulfate <i>REC=98</i>	6.057	1.947	7.29	9.790	BMB
<b>Total:</b>			156.627	26.694	100.00	70.131	

*spk w/ 10*

After Initials     *nb*    

**CCT 08 2010**

*AF 10/2/10*

default/Integration  Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_





Sequence # LC03100710

Ion Chromatography Data Quality Report  
Inorganics

Run # 219880

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS			
Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-33-CC</u>	Expires: <u>3.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-31-14</u>	Expires: <u>10.7.10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>2.3.11</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-V</u>	Expires: <u>11.2.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>

CCV	CAS ID # = <u>AN1-52-AA</u>	Expires <u>10.7.10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10.28.10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10.28.10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>12.22.10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>11.30.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike			
2.0ppm X dilution factor	CAS ID # = <u>AN1-72-EE</u>	Expires <u>10.7.10</u>	
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>CCV</u>	
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>↓</u>	
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>↓</u>	
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>↓</u>	
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>↓</u>	
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>↓</u>	

Analyst: nb Date: 10.7.10

First Review: J Date: 10.7.10

Final Review: [Signature] Date: 10/10/10

Work Order #: K4039

Prep Method: DI EXT

Analysis: SULFATE

Analytical Method:

300

Date Prepared	Sample Name /Lab Code	Dilution	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.	Date Analyzed
10.7.10	MB	1	25.0000	25.0	<0.2	<0.2			10.7.10
10.7.10	LCS	20	2.4931	25.0	56.792	569.4918			10.7.10
10.7.10	10936-1	50	2.4913	25.0	< 0.200	< 2.0 < 10 = 4 R.V			10.7.10
10.7.10	10936-1d	50	2.4901	25.0	< 0.2000	< 2.0 ↓			10.7.10
10.7.10	10936-1s	100	2.5348	25.0	400.190	3946.9583			10.7.10
10.7.10	10936-1sd	100	2.4786	25.0	415.458	4190.4503			10.7.10
10.7.10	10936-2	50	2.4697	25.0	< 0.200	< 2.0 < 10			10.7.10
10.7.10	10936-3	50	2.5214	25.0	< 0.200	< 2.0			10.7.10
10.7.10	10936-4	50	2.5192	25.0	< 0.200	< 2.0			10.7.10
10.7.10	10936-5	50	2.4624	25.0	< 0.200	< 2.0			10.7.10
10.7.10	10936-6	50	2.4720	25.0	< 0.200	< 2.0			10.7.10
10.7.10	10936-7	50	2.4671	25.0	< 0.200	< 2.0			10.7.10
10.7.10	10936-8	50	2.5150	25.0	< 0.200	< 2.0 ↓			10.7.10

STD ID: ANIONS IN SOIL D067-543

S04 T.V.= 518

REC=110

9543-1/1D X=<100 RPD-- RPD=9

10936-1S-(1\*10,000)/2.5348=3940

%REC=100

10936-1SD=(1\*10,000)/2.4786=4034

%REC= 104

Prepared By: <i>N/D</i>	Date Prepared: 10.7.10
Analyzed By: <i>N/D</i>	Date Analyzed: 10.7.10
Reviewed By:	Date Reviewed:

Work Order #: \_\_\_\_\_

Method: \_\_\_\_\_

Analysis: \_\_\_\_\_

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
10/7/10	M.B.	2.5					
	CCS	2.4931					
	10936-1	2.4913					
	-1d	2.4901					
	-1s	2.5348					
	-1cd	2.4786					
	-2	2.4697					
	-3	2.5211					
	-4	2.5192					
	-5	2.4624					
	-6	2.4720					
	-7	2.4671					
	-8	2.5150					

MS= \_\_\_\_\_  
 MSD= \_\_\_\_\_  
 X= \_\_\_\_\_  
 RPD= \_\_\_\_\_

STD ID # = \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prepared By: <u>W.B.</u>	Date Prepared: <u>10/7/10</u>
Analyzed By: <u>h</u>	Date Analyzed: <u>10/7/10</u>
Reviewed By:	Date Reviewed:

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?	
11109-1	V				F				
		Cl							
		NO2							
		Br							
		NO3							
					(SO4) 0.25/5			✓	
-2					F				
					Cl				
					NO2				
					Br				
					(NO3) 2.5/5				✓
				SO4					
1162-2	V				F				
					(Cl)				
					(NO2)				✓
					Br				
					(NO3)				✓
				(SO4)				✓	
-3		X			F				
					(Cl)				✓
					(NO2)				✓
					Br				
					(NO3)				✓
				SO4				✓	
MS/MSD 5a					F				
					(Cl)				✓
					(NO2)				✓
					Br				
					(NO3)				✓
				SO4				✓	
-4					F				
					(Cl)				✓
					(NO2)				✓
					Br				
					(NO3)				✓
				SO4				✓	
-5					F				
					(Cl)				✓
					(NO2)				✓
					Br				
					(NO3)				✓
				SO4				✓	
-6					F				
					(Cl)				✓
					(NO2)				✓
					Br				
					(NO3)				✓
				SO4				✓	
1165-1	1				F				
					(Cl)				
					NO2				
					Br				
					(NO3)				
				(SO4)				✓	
-2					F				
					(Cl)				
					NO2				
					Br				
					(NO3)				✓
				SO4				✓	
-3					F				
					(Cl) 1/5				
					NO2				
					Br				
					(NO3)				✓
				SO4				✓	

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
11165-4					F			
					Cl	1/5		✓
					NO2			
					Br			
					NO3 SO4			✓
-5					F			
					Cl	2.5/5		
					NO2			
					Br			
					NO3 SO4			
10936-9					F			
					Cl	1/100-1/5		✓
					NO2			
					Br			
					NO3 SO4			
-10					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
-11					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
-12					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
10851-5					F			
					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
-6					SO4	1100 → 2.5/5		✓
					F			
					Cl	0.25/5		✓
					NO2			
					Br			
10795-1					NO3			
					SO4	1/5		✓
					F			
					Cl			
					NO2			
-2					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl	0.20/5		✓
10830-1					NO2			
					Br			
					NO3			
					SO4	✓		✓
					F			
-2					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
					SO4	✓		✓
-3					F			
					Cl	0.20/5		✓
					NO2			
					Br			
					NO3			
10899-1					SO4	✓		✓
					F			
					Cl	1/100		✓
					NO2			
					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			

Sequence: IC03100710  
Operator: nbakotich

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/vl2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/vl3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/vl4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/vl5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/vl6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/vl7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/vl1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-AA	Unknown	8	200.0	epa300	epa300	Finished	10/7/2010 8:42:17 AM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/7/2010 8:53:45 AM
10	NO2 AN11-31-H	Unknown	10	200.0	epa300	epa300	Finished	10/7/2010 9:05:12 AM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:16:41 AM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:28:08 AM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/7/2010 9:39:36 AM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/7/2010 9:51:04 AM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/7/2010 10:02:32 AM
16	SPKCHK AN11-72-EE	Unknown	15	200.0	epa300	epa300	Finished	10/7/2010 10:13:59 AM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/7/2010 10:25:27 AM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/7/2010 10:36:55 AM
19	K1011109-001	Unknown	18	200.0	epa300	epa300	Finished	10/7/2010 10:48:22 AM
20	K1011109-002	Unknown	19	200.0	epa300	epa300	Finished	10/7/2010 10:59:50 AM
21	K1009074-001	Unknown	20	200.0	epa300	epa300	Finished	10/7/2010 11:11:18 AM
22	K1010851-005	Unknown	21	200.0	epa300	epa300	Finished	10/7/2010 11:22:46 AM
23	K1010851-006	Unknown	22	200.0	epa300	epa300	Finished	10/7/2010 11:34:13 AM
24	K1010851-005	Unknown	23	200.0	epa300	epa300	Finished	10/7/2010 11:45:41 AM
25	K1010851-006	Unknown	24	200.0	epa300	epa300	Finished	10/7/2010 11:57:09 AM
26	K1010795-001	Unknown	25	200.0	epa300	epa300	Finished	10/7/2010 12:08:36 PM
27	K1010795-002	Unknown	26	200.0	epa300	epa300	Finished	10/7/2010 12:20:04 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/7/2010 12:31:31 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/7/2010 12:43:00 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/7/2010 12:54:27 PM
31	K1010850-001	Unknown	30	200.0	epa300	epa300	Finished	10/7/2010 1:11:19 PM
32	K1010850-002	Unknown	31	200.0	epa300	epa300	Finished	10/7/2010 1:22:48 PM
33	K1010850-003	Unknown	32	200.0	epa300	epa300	Finished	10/7/2010 1:34:15 PM
34	K1010899-001	Unknown	33	200.0	epa300	epa300	Finished	10/7/2010 1:45:42 PM
35	K1010899-001	Unknown	34	200.0	epa300	epa300	Finished	10/7/2010 1:57:11 PM
36	K1010936-009	Unknown	35	200.0	epa300	epa300	Finished	10/7/2010 2:08:38 PM
37	RB	Unknown	36	200.0	epa300	epa300	Finished	10/7/2010 2:20:06 PM
38	K1010936-010	Unknown	37	200.0	epa300	epa300	Finished	10/7/2010 2:31:34 PM
39	RB	Unknown	38	200.0	epa300	epa300	Finished	10/7/2010 2:43:02 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/7/2010 2:54:30 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/7/2010 3:05:58 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/7/2010 3:17:25 PM

Sequence: IC03100710  
Operator: nbakotich

Page 2 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	std2/vl2	1.0000	
2	std3/vl3	1.0000	
3	std4/vl4	1.0000	
4	std5/vl5	1.0000	
5	std6/vl6	1.0000	
6	std7/vl7	1.0000	
7	std1/vl1	1.0000	
8	CCV AN11-82-AA	1.0000	
9	CCB1	1.0000	
10	NO2 AN11-31-H	25.0000	NO2
11	MB	1.0000	MB
12	NO3 AN1-33-V	20.0000	NO3
13	CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	F AN 1-33-Y	2.0000	F
15	Br AN1-33-L	1.0000	Br
16	SPKCHK AN11-72-EE	1.0000	
17	CCV2	1.0000	CCV2
18	CCB2	1.0000	CCB2
19	K1011109-001	20.0000	
20	K1011109-002	2.0000	
21	K1009074-001	10.0000	F
22	K1010851-005	200.0000	
23	K1010851-006	500.0000	
24	K1010851-005	20.0000	
25	K1010851-006	20.0000	
26	K1010795-001	5.0000	
27	K1010795-002	10.0000	
28	RB	1.0000	
29	CCV3	1.0000	CCV3
30	CCB3	1.0000	CCB3
31	K1010850-001	25.0000	
32	K1010850-002	20.0000	
33	K1010850-003	25.0000	
34	K1010899-001	100.0000	
35	K1010899-001	10.0000	
36	K1010936-009	500.0000	
37	RB	1.0000	
38	K1010936-010	500.0000	
39	RB	1.0000	
40	RB	1.0000	
41	CCV4	1.0000	CCV4
42	CCB4	1.0000	CCB4



Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 100











































Created: 10/7/2010 8:28:03 AM by ACQWET10  
 Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1011162-002	Unknown	42	200.0	epa300	epa300	Finished	10/7/2010 3:54:53 PM
44	K1011162-003	Unknown	43	200.0	epa300	epa300	Finished	10/7/2010 4:06:20 PM
45	K1011162-004	Unknown	44	200.0	epa300	epa300	Finished	10/7/2010 4:17:48 PM
46	K1011162-005	Unknown	45	200.0	epa300	epa300	Finished	10/7/2010 4:29:16 PM
47	K1011162-006	Unknown	46	200.0	epa300	epa300	Finished	10/7/2010 4:40:43 PM
48	K1011165-001	Unknown	47	200.0	epa300	epa300	Finished	10/7/2010 4:52:11 PM
49	K1011165-002	Unknown	48	200.0	epa300	epa300	Finished	10/7/2010 5:03:39 PM
50	K1011165-003	Unknown	49	200.0	epa300	epa300	Finished	10/7/2010 5:15:06 PM
51	K1011165-004	Unknown	50	200.0	epa300	epa300	Finished	10/7/2010 5:26:34 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/7/2010 5:38:02 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/7/2010 5:49:30 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/7/2010 6:00:58 PM
55	K1011165-005	Unknown	54	200.0	epa300	epa300	Finished	10/7/2010 6:12:26 PM
56	K1011162-003	Unknown	55	200.0	epa300	epa300	Finished	10/7/2010 6:23:53 PM
57	K1011162-003	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 6:35:21 PM
58	K1011162-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 6:46:49 PM
59	MB DEXT	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 6:58:17 PM
60	LCS DEXT	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 7:09:44 PM
61	K1010936-011	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 7:21:12 PM
62	RB	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 7:32:40 PM
63	K1010936-012	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 7:44:08 PM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 7:55:36 PM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 8:07:04 PM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 8:18:31 PM
67	K1010936-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 8:29:59 PM
68	RB	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 8:41:27 PM
69	RB	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 8:52:55 PM
70	K1010936-001	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 9:04:23 PM
71	RB	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 9:15:51 PM
72	RB	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 9:27:18 PM
73	K1010936-001	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 9:38:46 PM
74	RB	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 9:50:13 PM
75	RB	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 10:01:41 PM
76	CCV7	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 10:13:09 PM
77	CCB7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 10:24:36 PM
78	K1010936-001	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 10:36:04 PM
79	RB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 10:47:32 PM
80	RB	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 10:59:00 PM
81	K1010936-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 11:10:28 PM
82	RB	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 11:21:56 PM
83	K1010936-003	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 11:33:23 PM
84	RB	Unknown	83	200.0	epa300	epa300	Finished	10/7/2010 11:44:52 PM

Sequence: IC03100710  
Operator: nbakotich

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

















No.	Name	Dil. Factor	Comment
43	 K1011162-002	2.0000	
44	 K1011162-003	2.0000	
45	 K1011162-004	2.0000	
46	 K1011162-005	2.0000	
47	 K1011162-006	2.0000	
48	 K1011165-001	2.0000	F
49	 K1011165-002	2.0000	F
50	 K1011165-003	5.0000	F
51	 K1011165-004	5.0000	F
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1011165-005	2.0000	
56	 K1011162-003	2.0000	D
57	 K1011162-003	5.0000	MS
58	 K1011162-003	5.0000	MSD
59	 MB DEXT	1.0000	
60	 LCS DEXT	10.0000	
61	 K1010936-011	500.0000	
62	 RB	1.0000	
63	 K1010936-012	500.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1010936-001	50.0000	
68	 RB	1.0000	
69	 RB	1.0000	
70	 K1010936-001	50.0000	D
71	 RB	1.0000	
72	 RB	1.0000	
73	 K1010936-001	100.0000	MS
74	 RB	1.0000	
75	 RB	1.0000	
76	 CCV7	1.0000	CCV7
77	 CCB7	1.0000	CCB7
78	 K1010936-001	100.0000	MSD
79	 RB	1.0000	
80	 RB	1.0000	
81	 K1010936-002	50.0000	
82	 RB	1.0000	
83	 K1010936-003	50.0000	
84	 RB	1.0000	

Sequence: IC03100710  
Operator: nbakotich

Page 5 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100











Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 K1010936-004	Unknown	84	200.0	epa300	epa300	Finished	10/7/2010 11:56:19 PM
86	 RB	Unknown	85	200.0	epa300	epa300	Finished	10/8/2010 12:07:47 AM
87	 RB	Unknown	86	200.0	epa300	epa300	Finished	10/8/2010 12:19:15 AM
88	 CCV8	Unknown	87	200.0	epa300	epa300	Finished	10/8/2010 12:30:43 AM
89	 CCB8	Unknown	88	200.0	epa300	epa300	Finished	10/8/2010 12:42:12 AM
90	 K1010936-005	Unknown	89	200.0	epa300	epa300	Finished	10/8/2010 12:53:39 AM
91	 RB	Unknown	90	200.0	epa300	epa300	Finished	10/8/2010 1:05:07 AM
92	 K1010936-006	Unknown	91	200.0	epa300	epa300	Finished	10/8/2010 1:16:35 AM
93	 RB	Unknown	92	200.0	epa300	epa300	Finished	10/8/2010 1:28:03 AM
94	 K1010936-007	Unknown	93	200.0	epa300	epa300	Finished	10/8/2010 1:39:31 AM
95	 RB	Unknown	94	200.0	epa300	epa300	Finished	10/8/2010 1:50:59 AM
96	 K1010936-008	Unknown	95	200.0	epa300	epa300	Finished	10/8/2010 2:02:26 AM
97	 RB	Unknown	96	200.0	epa300	epa300	Finished	10/8/2010 2:13:54 AM
98	 RB	Unknown	97	200.0	epa300	epa300	Finished	10/8/2010 2:25:22 AM
99	 CCV9	Unknown	98	200.0	epa300	epa300	Finished	10/8/2010 2:36:49 AM
100	 CCB9	Unknown	99	200.0	epa300	epa300	Finished	10/8/2010 2:48:17 AM

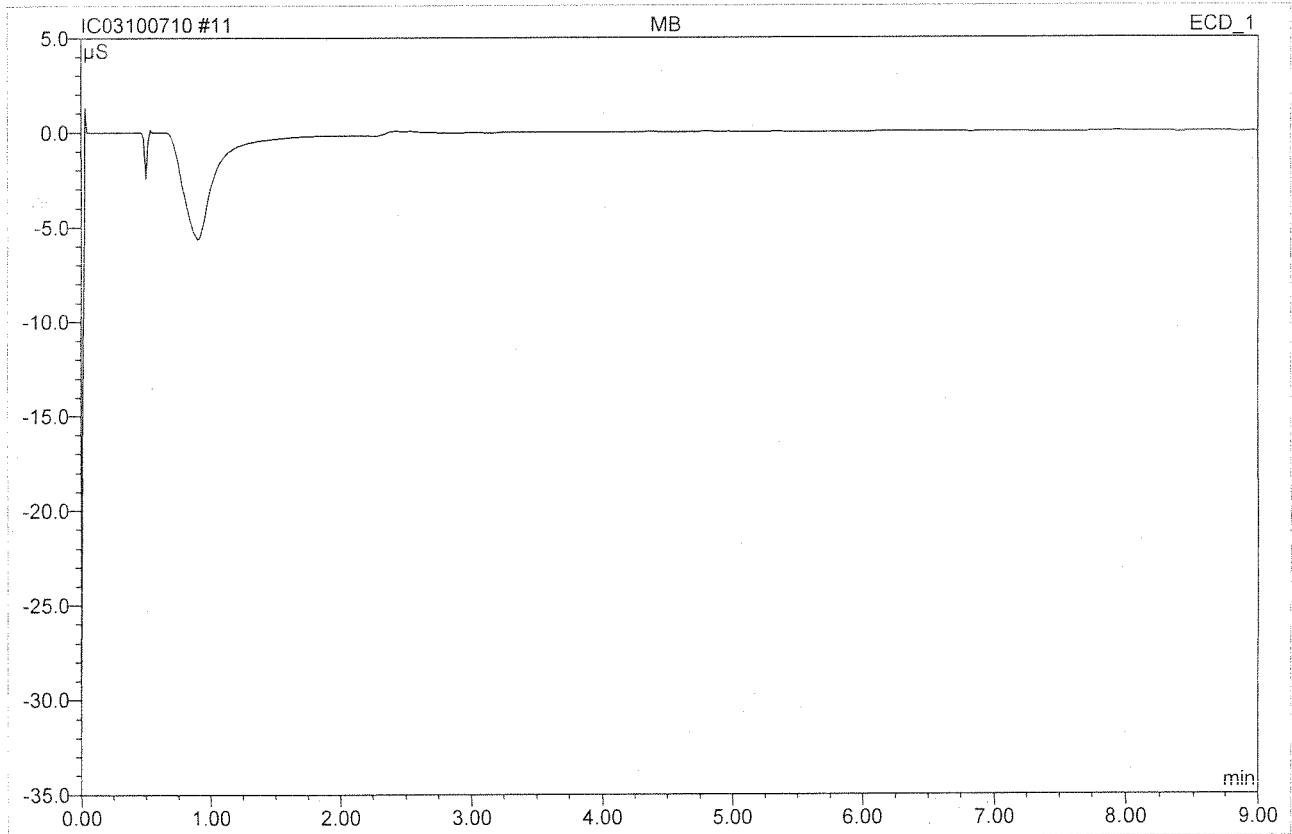
Sequence: IC03100710  
Operator: nbakotich

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
85	 K1010936-004	50.0000	
86	 RB	1.0000	
87	 RB	1.0000	
88	 CCV8	1.0000	CCV8
89	 CCB8	1.0000	CCB8
90	 K1010936-005	50.0000	
91	 RB	1.0000	
92	 K1010936-006	50.0000	
93	 RB	1.0000	
94	 K1010936-007	50.0000	
95	 RB	1.0000	
96	 K1010936-008	50.0000	
97	 RB	1.0000	
98	 RB	1.0000	
99	 CCV9	1.0000	CCV9
100	 CCB9	1.0000	CCB9

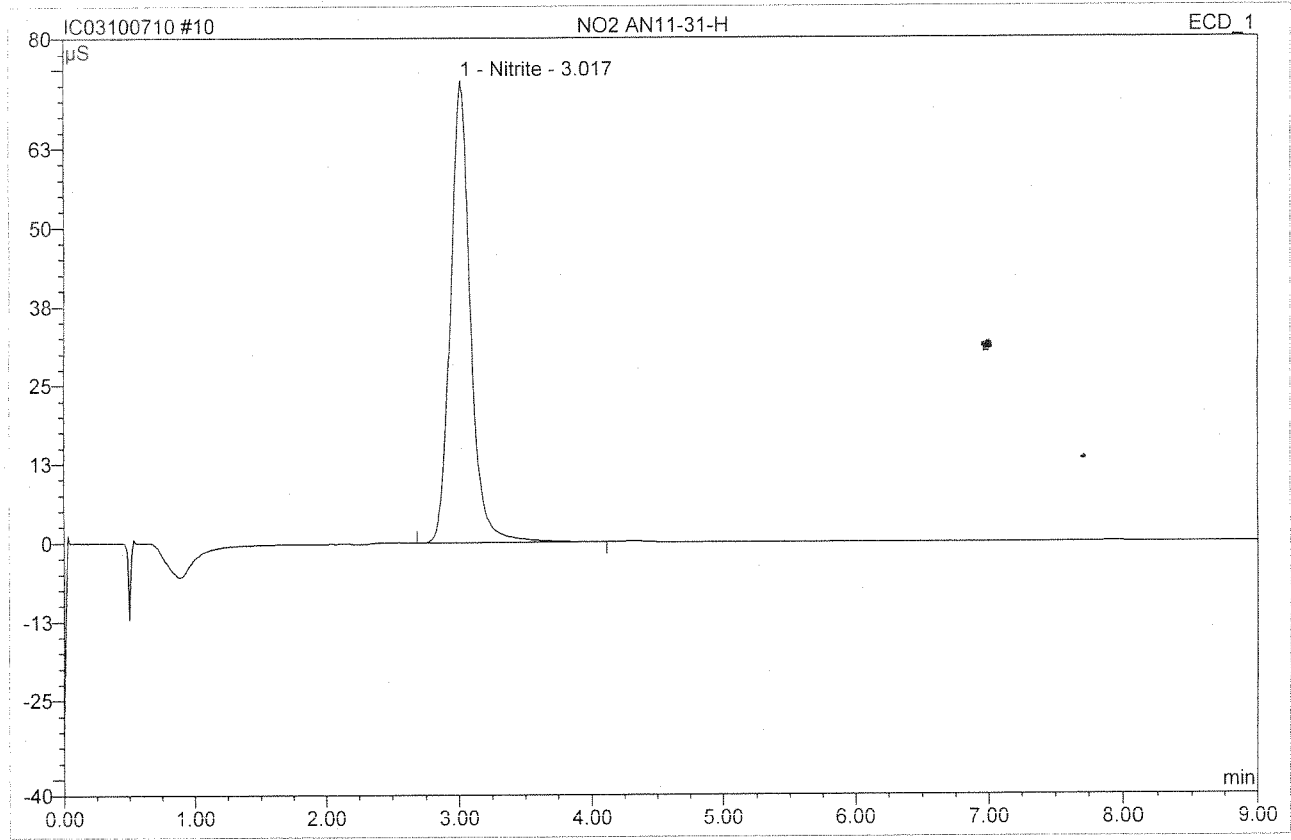
<b>11 MB</b>			
<b>MB</b>			
Sample Name:	<b>MB</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>11</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 9:16</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

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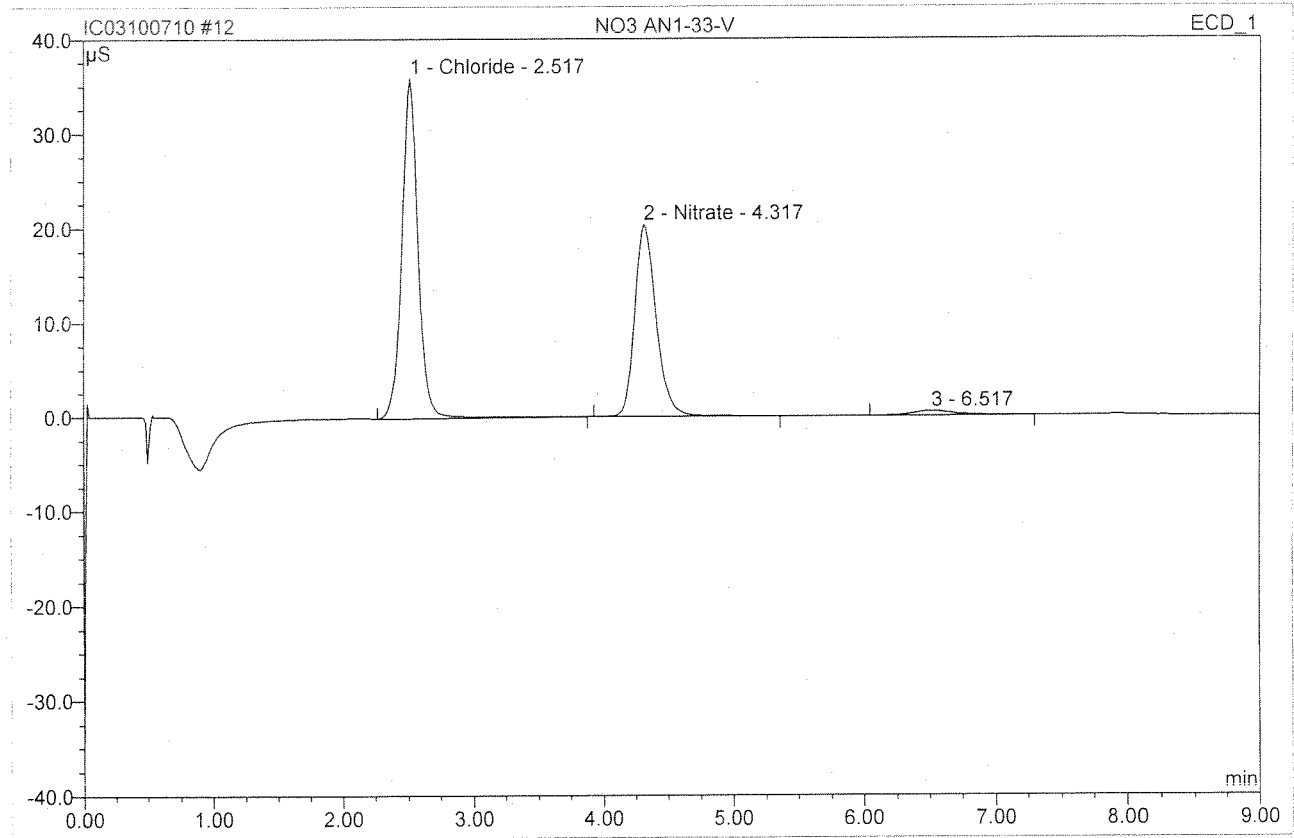
<b>10 NO2 AN11-31-H</b>			
<b>NO2</b>			
Sample Name:	NO2 AN11-31-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/7/2010 9:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	3.02	Nitrite	73.317	12.701	100.00	100 99.719	BMB
<b>Total:</b>			73.317	12.701	100.00	99.719	

*nbakotich*

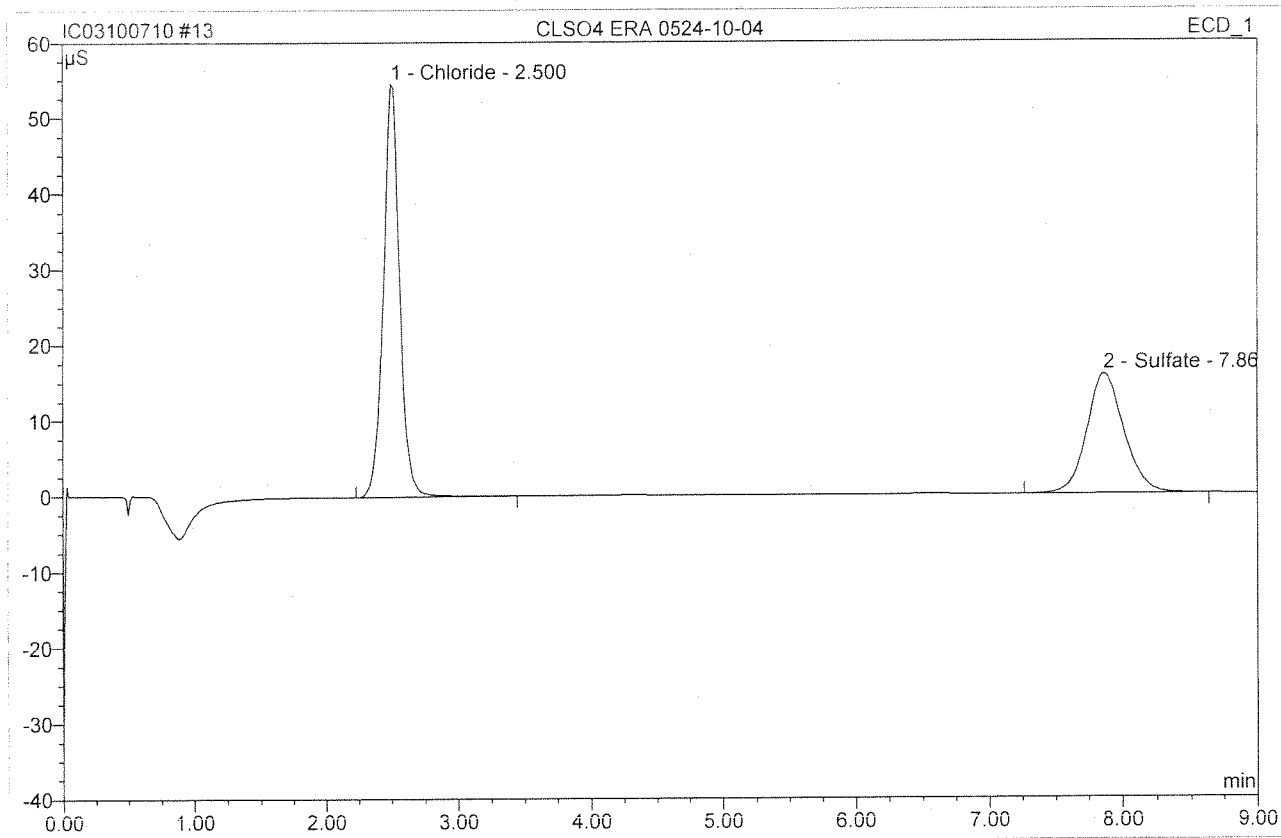
<b>12 NO3 AN1-33-V</b>			
<b>NO3</b>			
Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/7/2010 9:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.52	Chloride	36.032	5.191	56.06	66.881	BMB
2	4.32	Nitrate	20.318	3.885	41.95	99 20.814	BMB
3	6.52	n.a.	0.473	0.184	1.99	n.a.	BMB
<b>Total:</b>			56.823	9.260	100.00	87.695	

*Handwritten signature/initials*

<b>13 CLSO4 ERA 0524-10-04</b>			
<b>CLSO4</b>			
Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 9:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

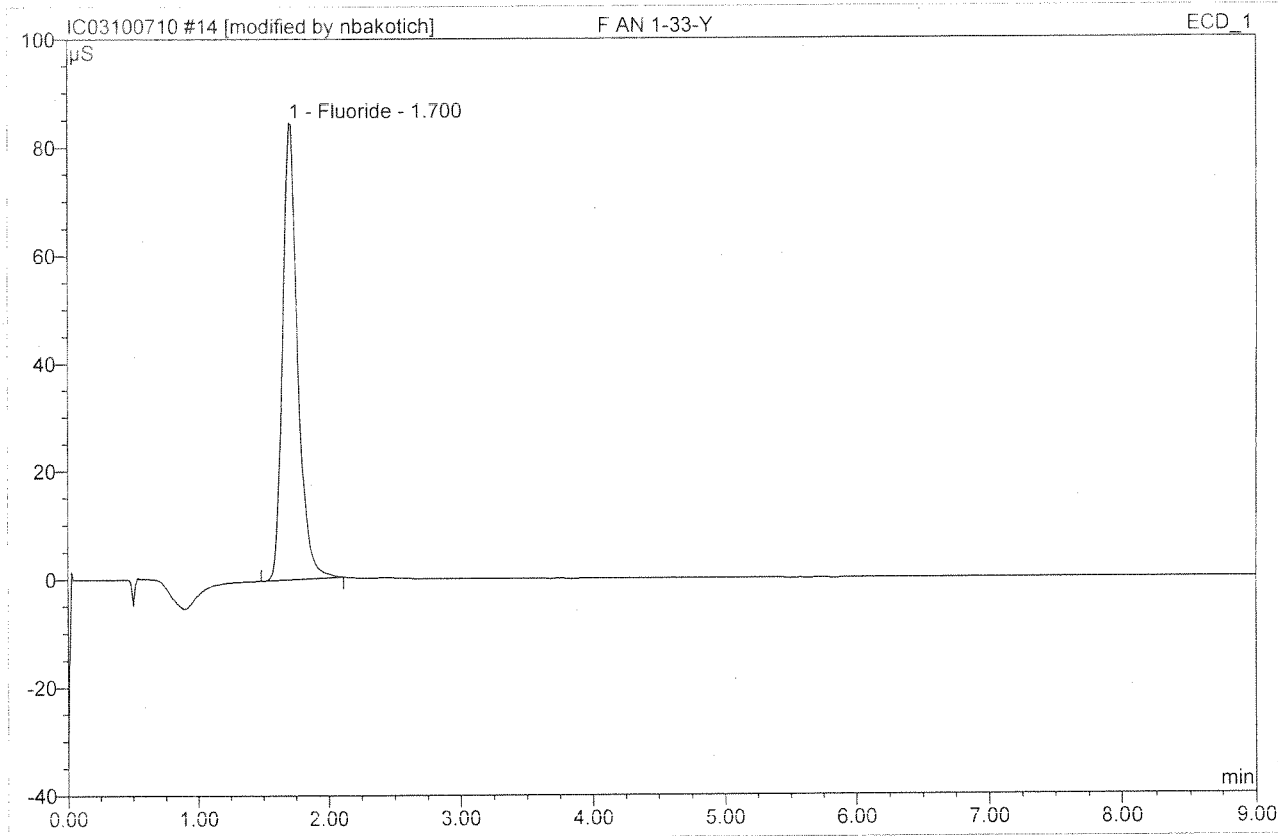


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.671	7.751	60.28	100 4.993	BMB
2	7.87	Sulfate	15.908	5.108	39.72	103 5.137	BMB
<b>Total:</b>			70.579	12.860	100.00	10.131	

*nbakotich*



<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.501	11.152	100.00	108 11.942	BMB*
<b>Total:</b>			84.501	11.152	100.00	11.942	

After Initials nb

OCT 08 2010

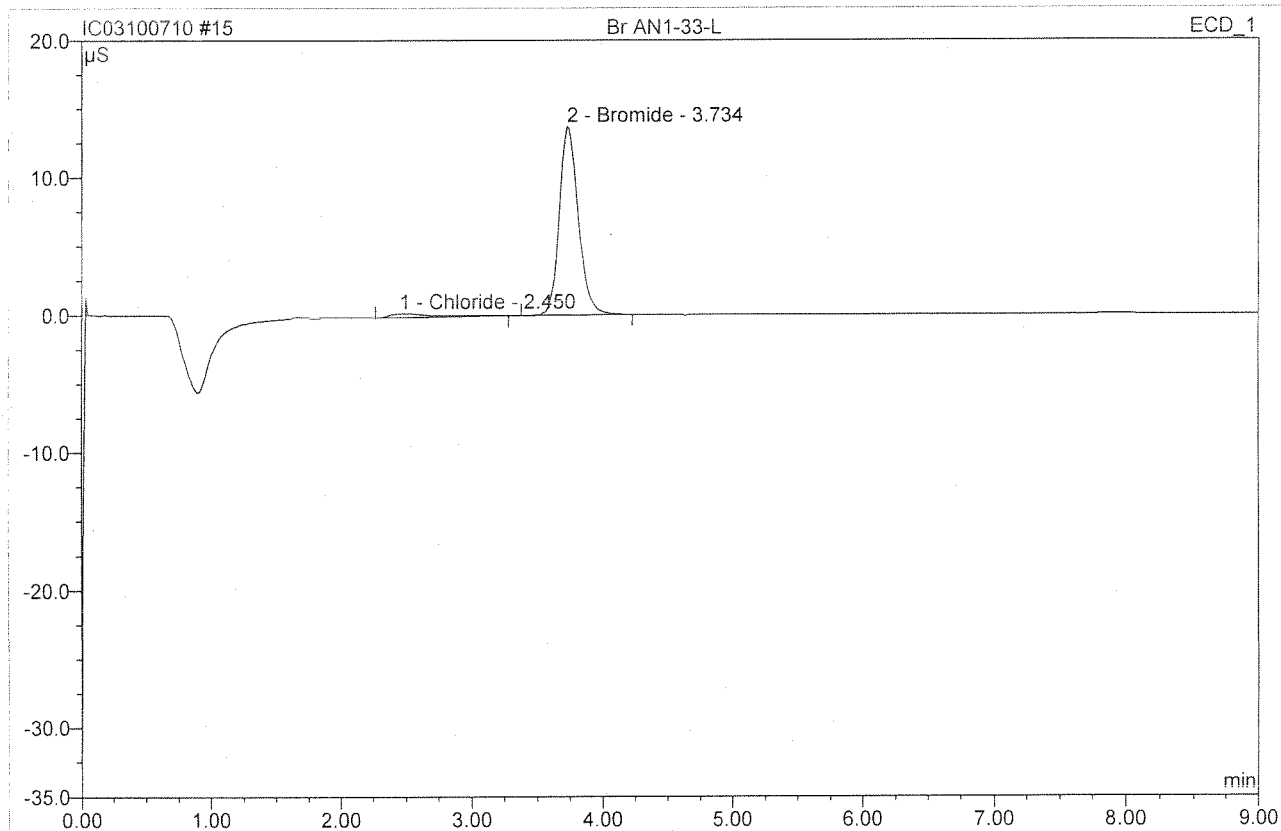
- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*Handwritten signature/initials*

# 15 Br AN1-33-L

**Br**

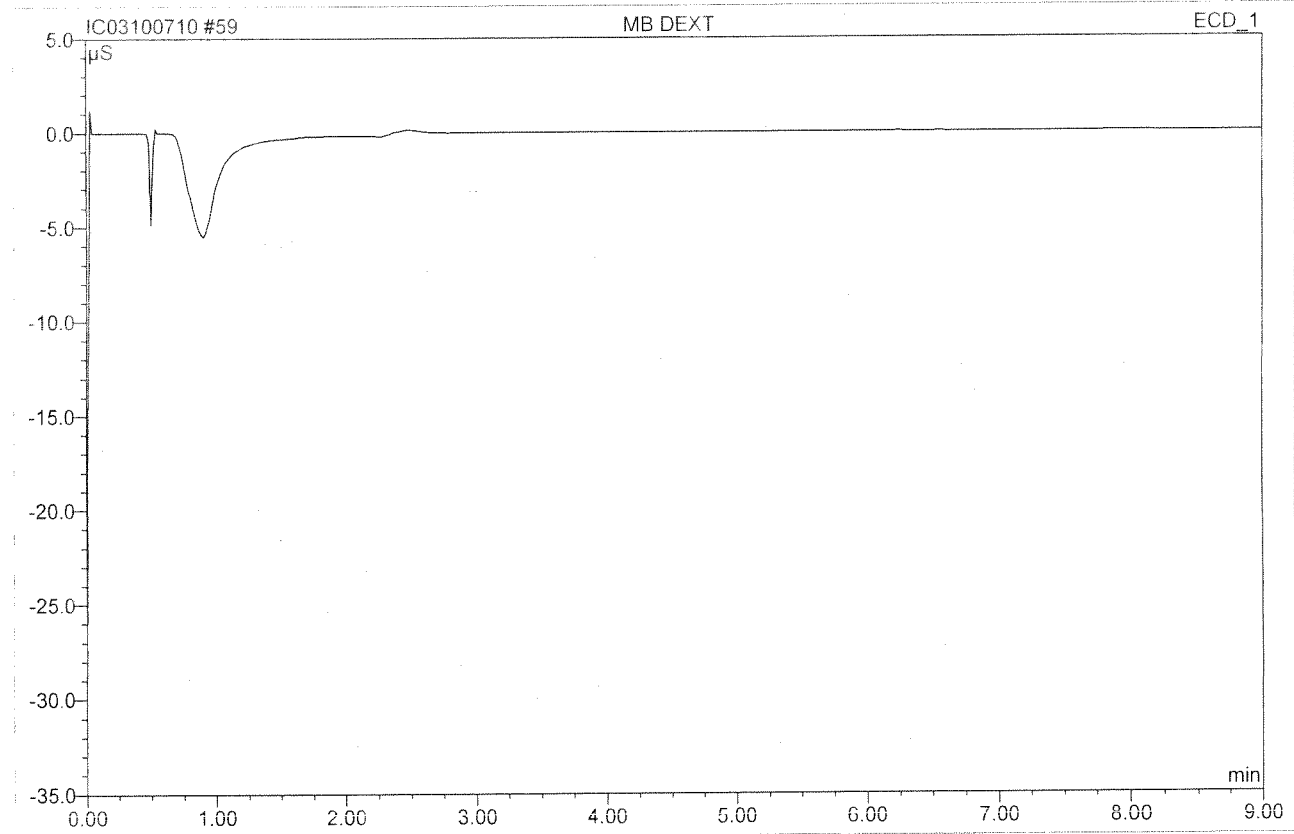
Sample Name:	<b>Br AN1-33-L</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>14</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 10:02</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.45	Chloride	0.282	0.113	4.70	0.073	BMB
2	3.73	Bromide	13.667	2.294	95.30	108 4.329	BMB
<b>Total:</b>			13.949	2.407	100.00	4.402	

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<b>59 MB DEXT</b>			
Sample Name:	MB DEXT	Injection Volume:	200.0
Vial Number:	58	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 18:58	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

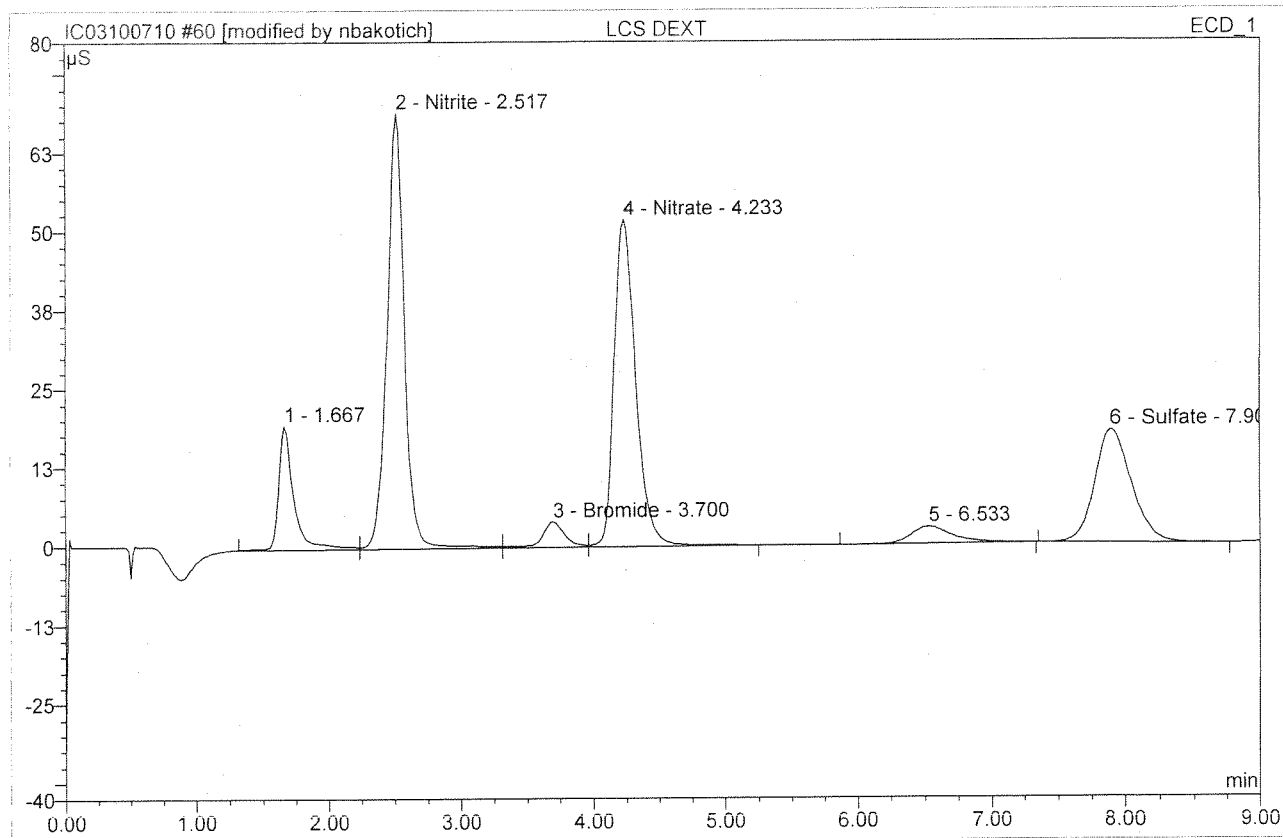


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*SO<sub>4</sub> CO<sub>2</sub>O*

*HT  
10/8/10*

<b>60 LCS DEXT</b>			
Sample Name:	LCS DEXT	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 19:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	n.a.	19.639	2.621	8.68	n.a.	BM
2	2.52	Nitrite	69.066	10.435	34.54	32.768	M
3	3.70	Bromide	4.010	0.774	2.56	14.605	M
4	4.23	Nitrate	51.856	9.755	32.29	26.133	MB
5	6.53	n.a.	2.697	0.981	3.25	n.a.	BMB*
6	7.90	Sulfate	17.995	5.647	18.69	56.792	BMB*
<b>Total:</b>			165.262	30.213	100.00	130.299	

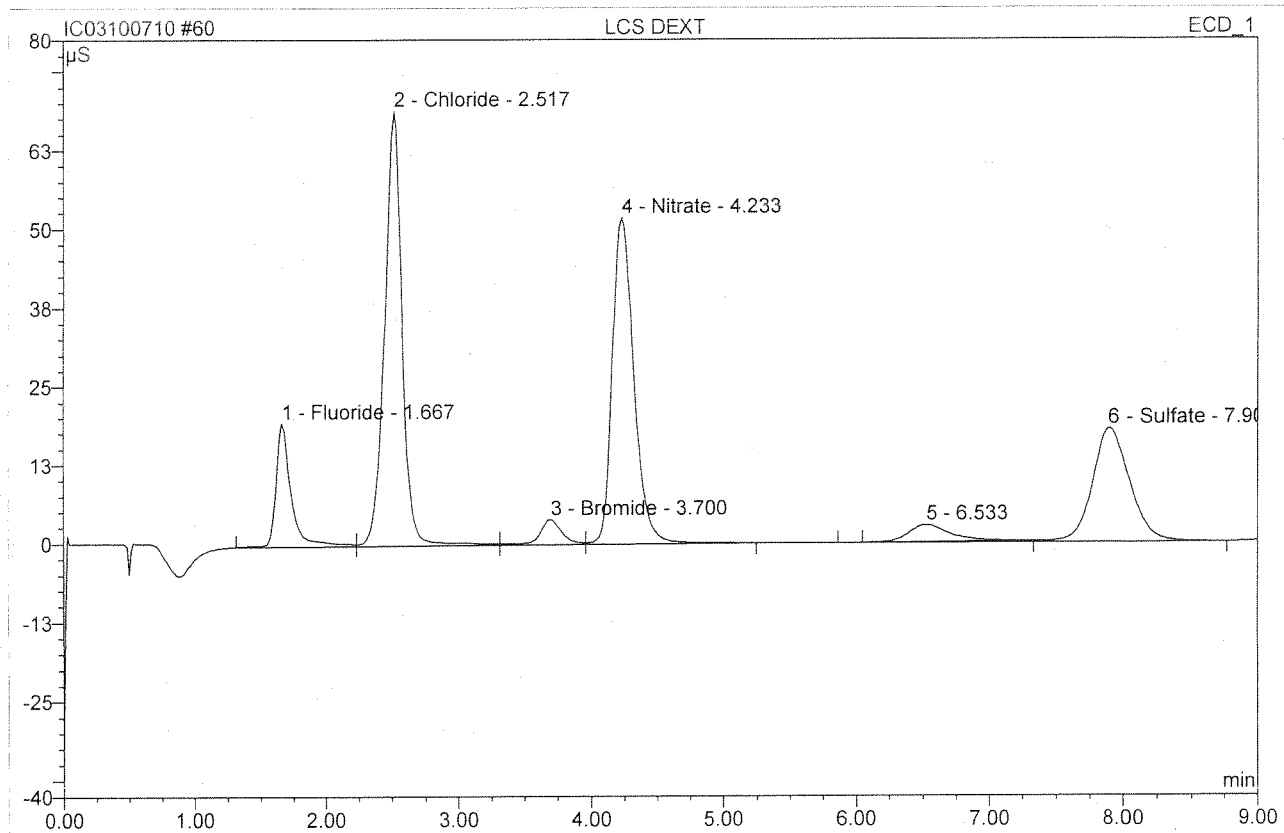
After Initials nb

OCT 08 2010

*nbakotich*

default/Integration  Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other

60 LCS DEXT			
Sample Name:	LCS DEXT	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 19:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

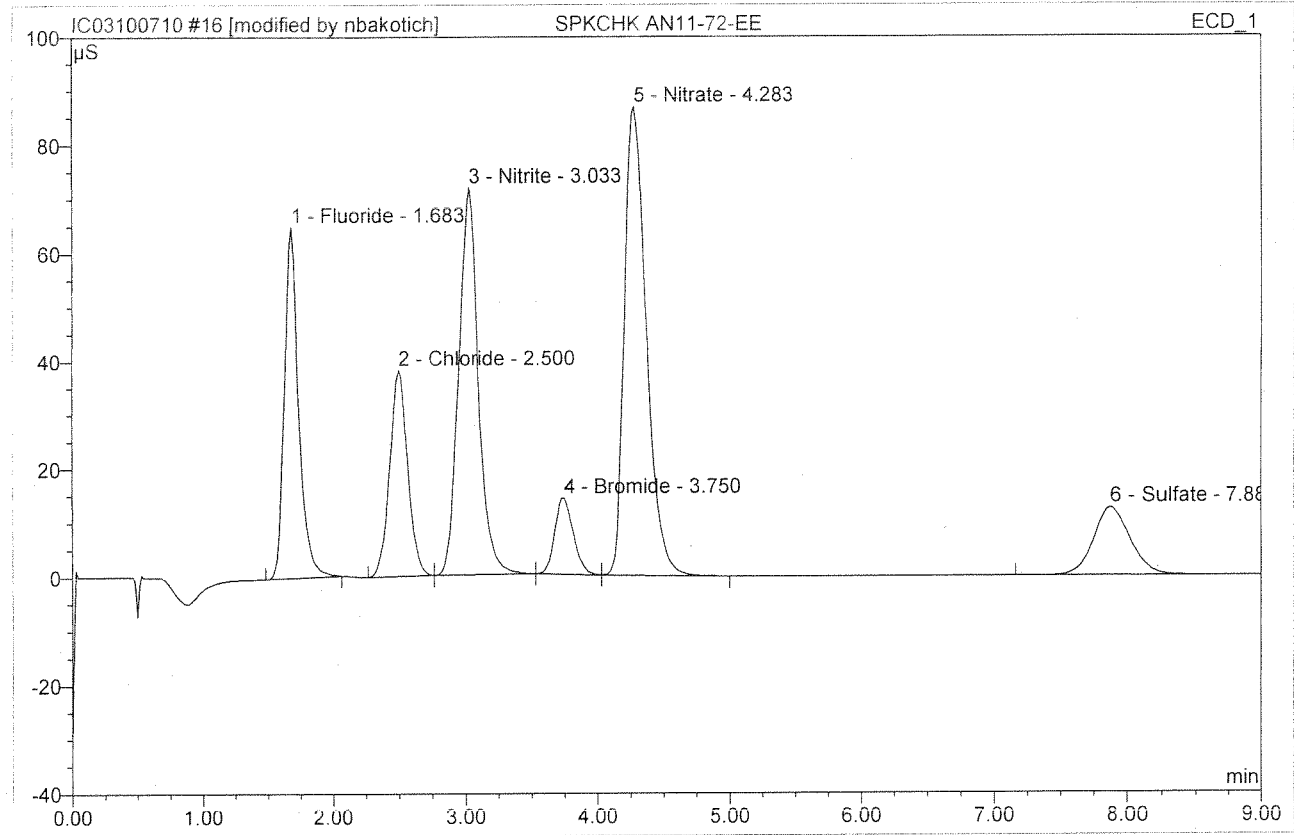


No.	Ret.Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.67	Fluoride	19.639	2.621	8.60	14.033	BM
2	2.52	Chloride	69.066	10.435	34.23	67.220	M
3	3.70	Bromide	4.010	0.774	2.54	14.605	M
4	4.23	Nitrate	51.856	9.755	32.01	26.133	MB
5	6.53	n.a.	2.706	0.992	3.25	n.a.	Ru
6	7.90	Sulfate	18.106	5.902	19.37	59.361	BMB
<b>Total:</b>			165.383	30.479	100.00	181.353	

OCT 08 2010

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16 SPKCHK AN11-72-EE			
Sample Name:	SPKCHK AN11-72-EE	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	65.048	8.303	16.74	4.446	BMB*
2	2.50	Chloride	38.143	5.973	12.05	3.848	BMb
3	3.03	Nitrite	71.734	12.281	24.77	3.857	bMb
4	3.75	Bromide	14.080	2.276	4.59	4.295	bMb
5	4.28	Nitrate	86.674	16.720	33.72	4.479	bMB
6	7.88	Sulfate	12.574	4.036	8.14	4.059	BMB
<b>Total:</b>			288.252	49.590	100.00	24.984	

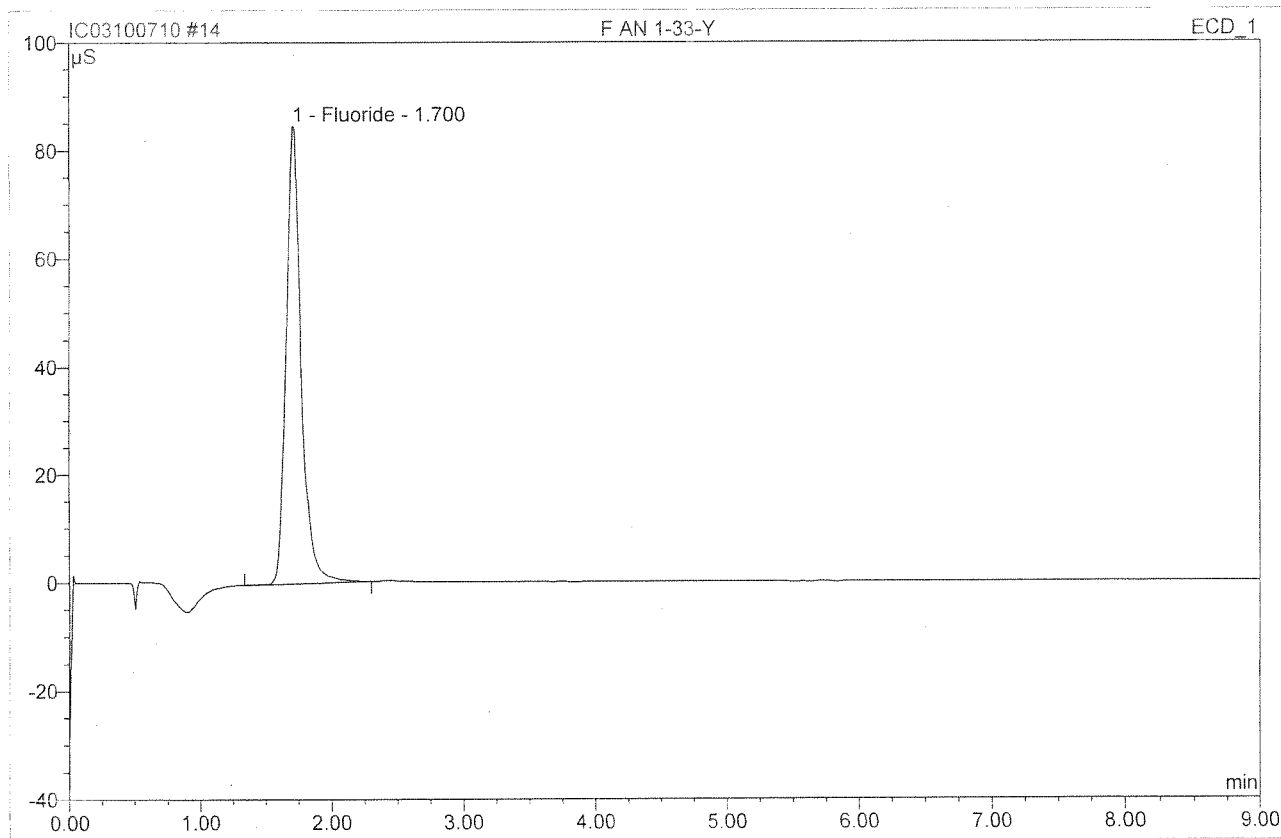
TV=4.0

*K w/5/10*

**14 F AN 1-33-Y**

**F**

Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



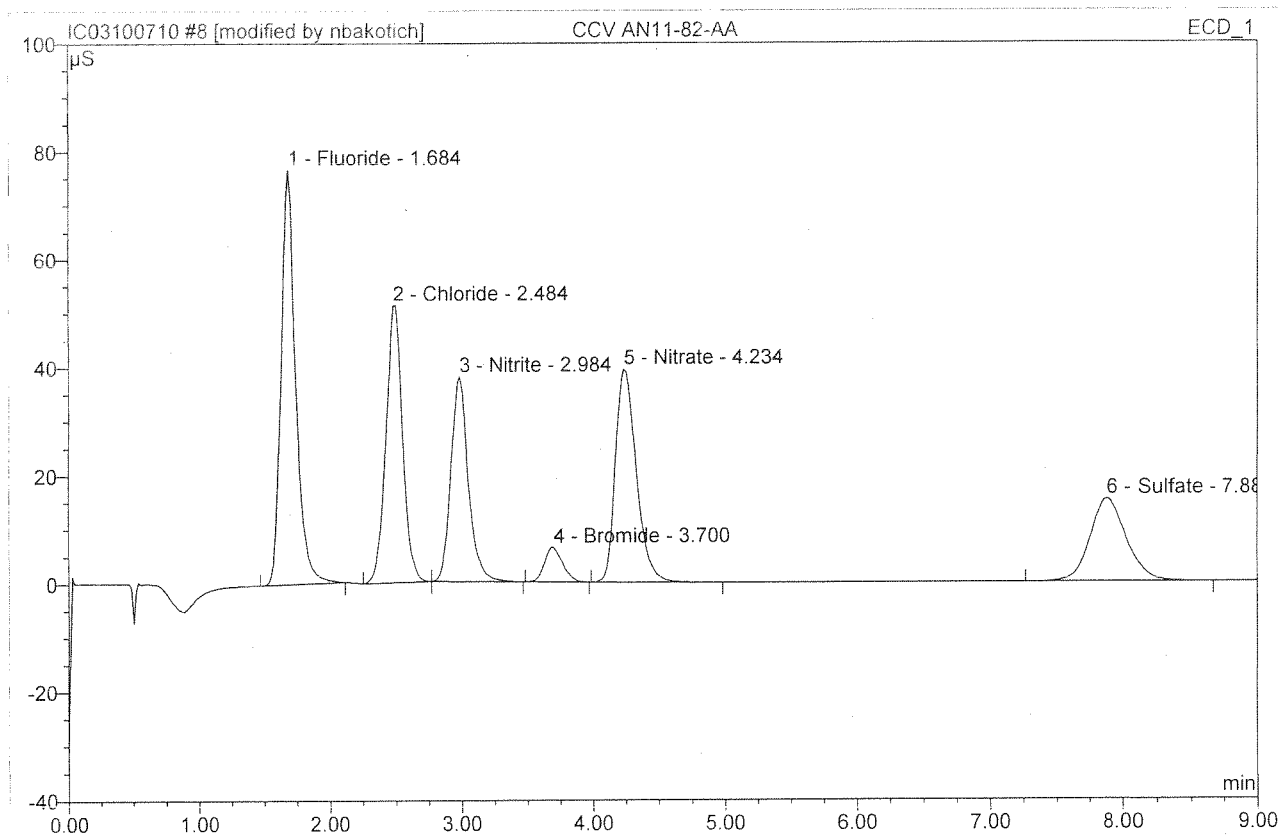
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.688	11.346	100.00	12.149	BMB
<b>Total:</b>			84.688	11.346	100.00	12.149	

**Before**

**OCT 0 8 2010**

## 8 CCV AN11-82-AA

Sample Name: <b>CCV AN11-82-AA</b>	Injection Volume: <b>200.0</b>
Vial Number: <b>8</b>	Channel: <b>ECD_1</b>
Sample Type: <b>unknown</b>	Wavelength: <b>n.a.</b>
Control Program: <b>epa300</b>	Bandwidth: <b>n.a.</b>
Quantif. Method: <b>epa300</b>	Dilution Factor: <b>1.0000</b>
Recording Time: <b>10/7/2010 8:42</b>	Sample Weight: <b>1.0000</b>
Run Time (min): <b>9.00</b>	Sample Amount: <b>1.0000</b>



No.	Ret. Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %	Amount	Type
1	1.68	Fluoride	76.763	9.863	27.20	100 5.281	BMB*
2	2.48	Chloride	51.241	7.454	20.56	96 4.802	BMB*
3	2.98	Nitrite	37.906	5.829	16.08	92 1.831	bMB
4	3.70	Bromide	6.369	1.024	2.82	97 1.933	BMB
5	4.23	Nitrate	39.419	7.225	19.92	97 1.935	BMB
6	7.88	Sulfate	15.376	4.866	13.42	98 4.893	BMB
<b>Total:</b>			227.074	36.260	100.00	20.674	

Anal. Initials:           

OCT 07 2010

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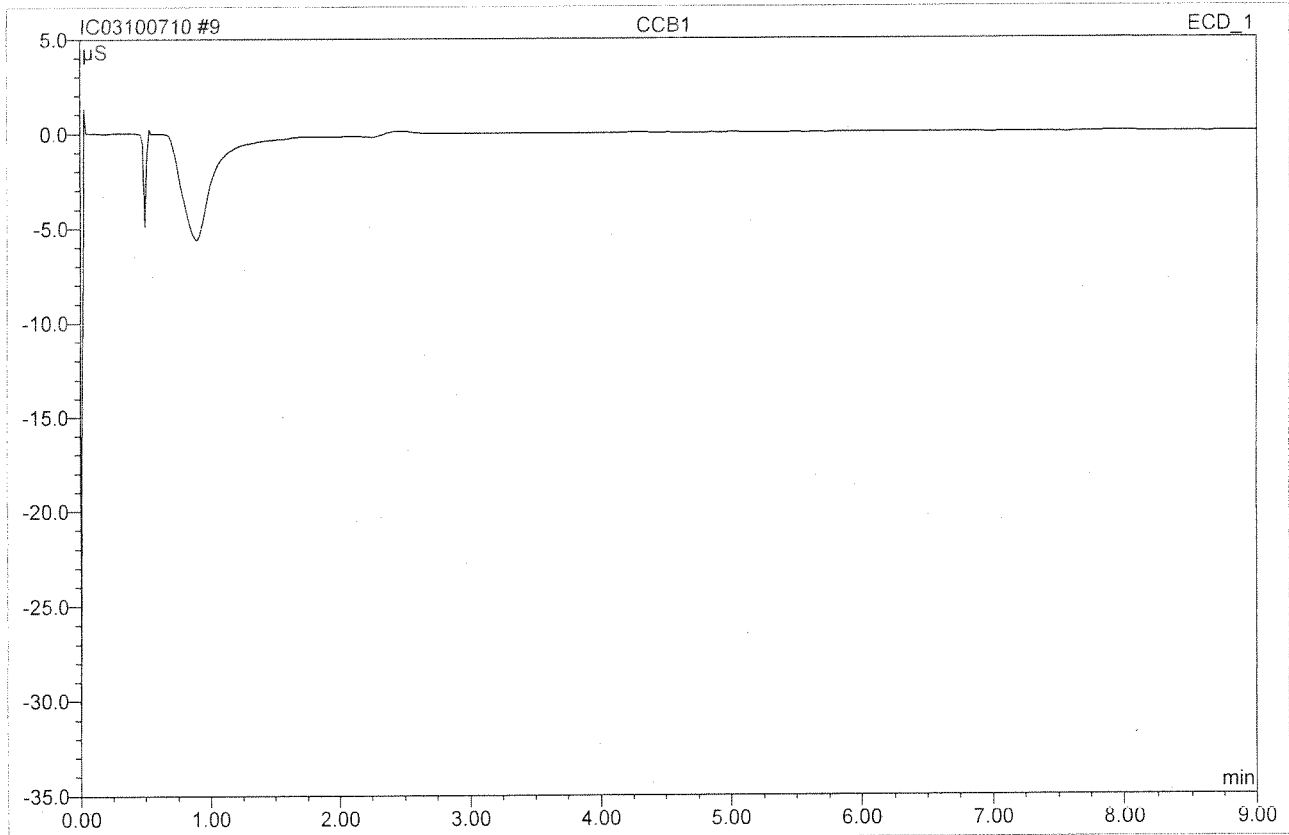
default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238



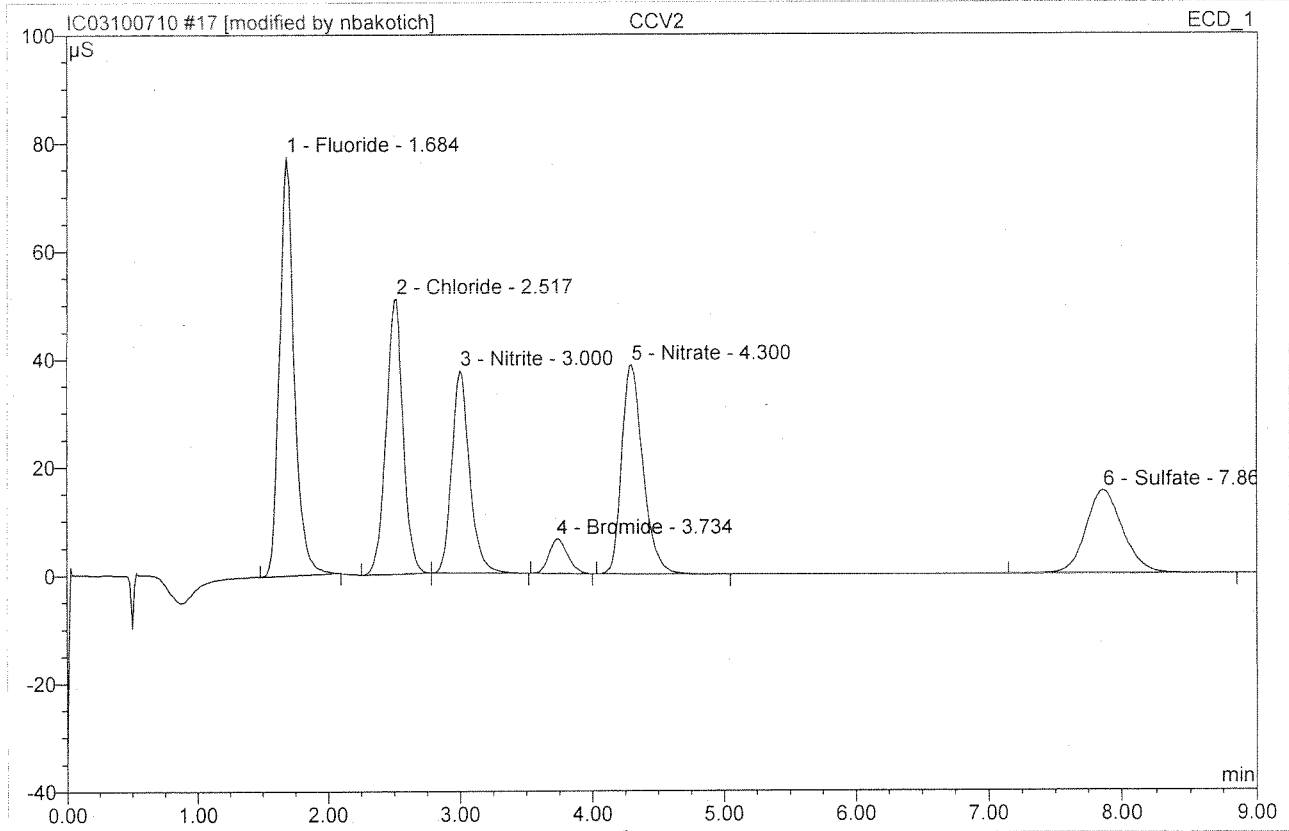
<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*nbakotich*

<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



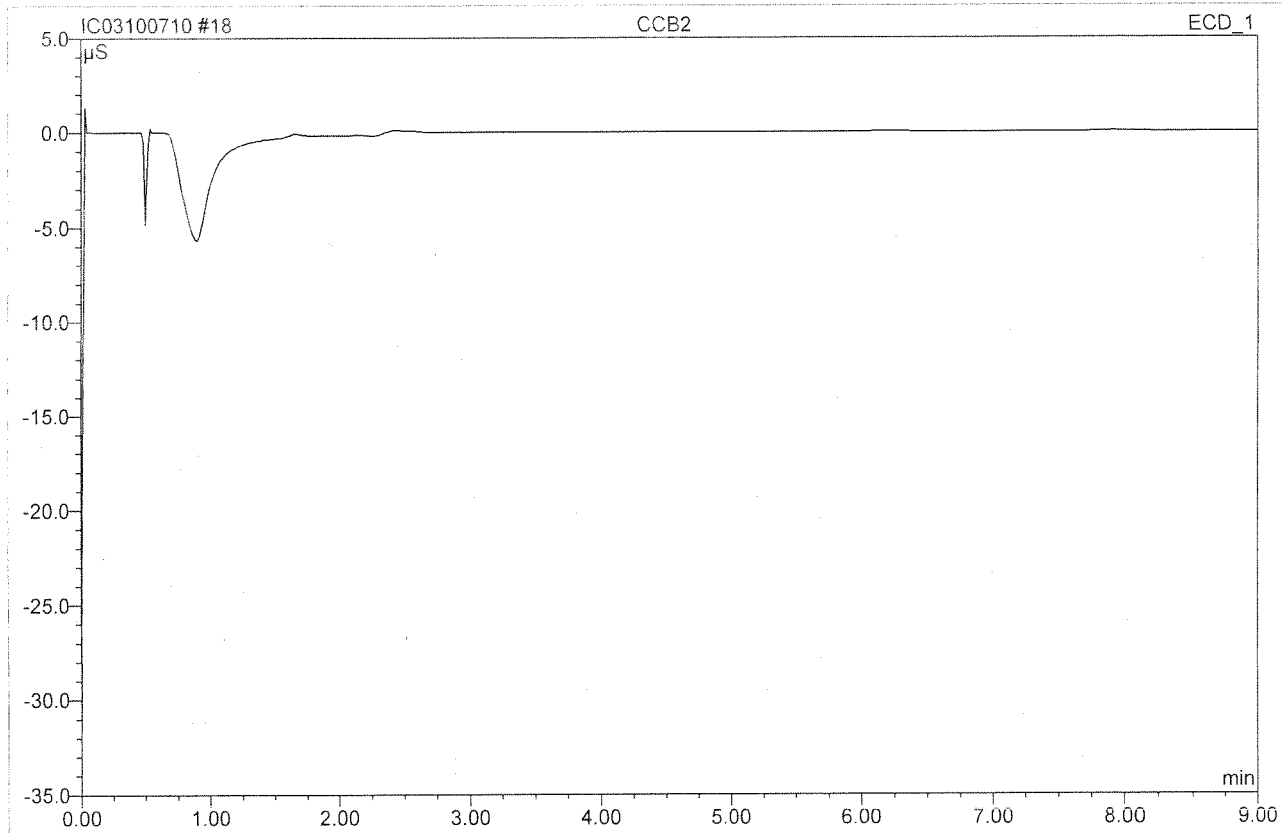
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.628	10.111	27.54	108 5.413	BMB*
2	2.52	Chloride	50.996	7.527	20.50	97 4.849	BMB*
3	3.00	Nitrite	37.589	5.845	15.92	92 1.836	bMB*
4	3.73	Bromide	6.357	1.035	2.82	98 1.954	BMB*
5	4.30	Nitrate	38.664	7.277	19.82	98 1.949	BMB*
6	7.87	Sulfate	15.414	4.914	13.39	99 4.942	BMB
<b>Total:</b>			226.648	36.709	100.00	20.943	

Att. Initials nb

OCT 08 2010

*dk w/10/10*

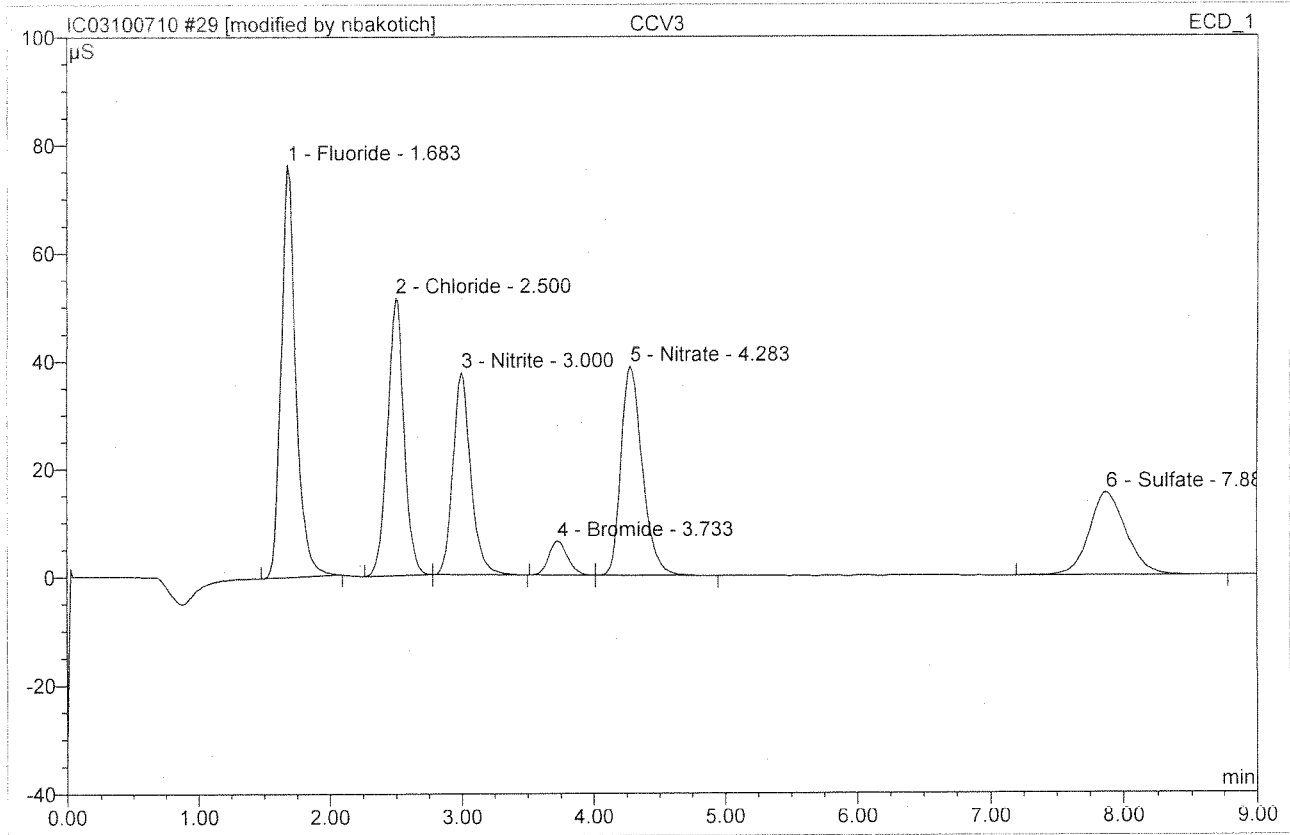
<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



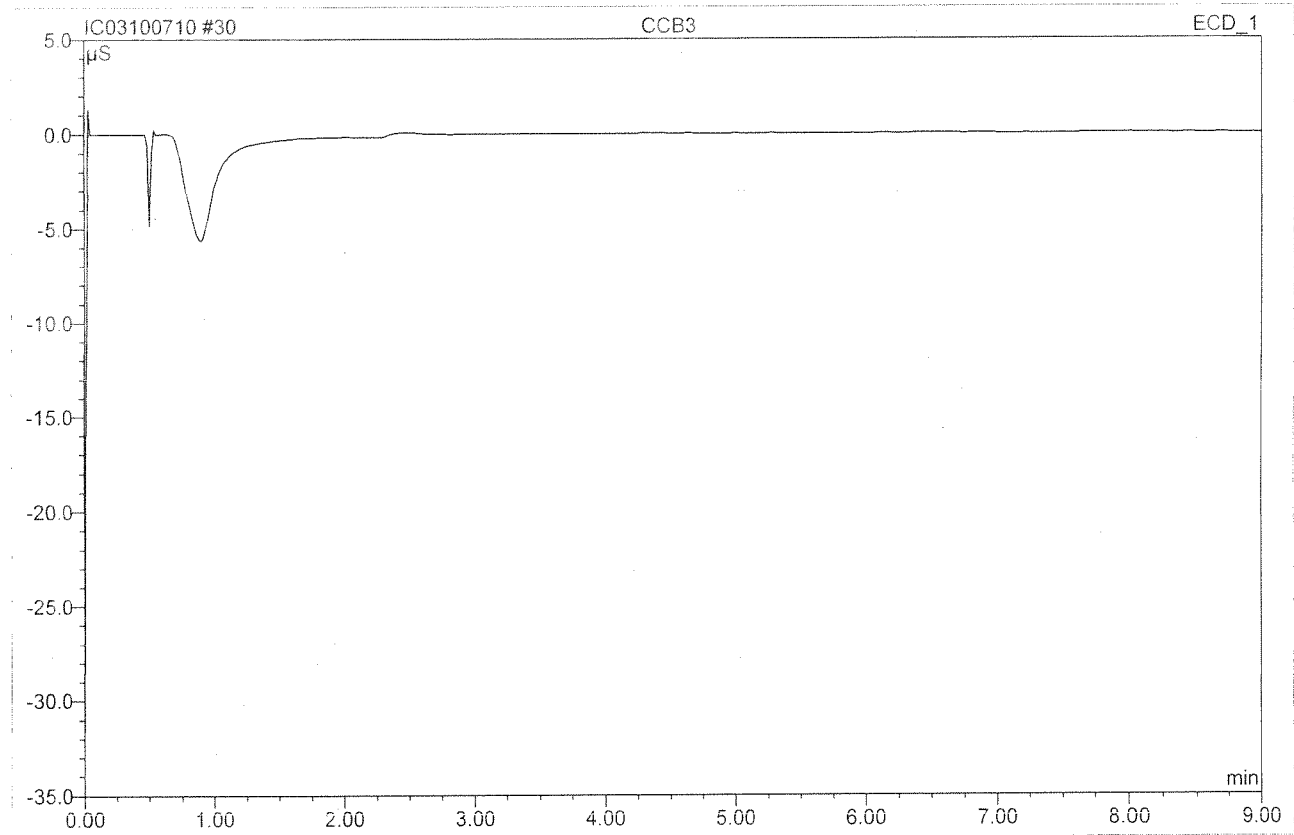
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.419	9.982	27.34	107 5.344	BMB*
2	2.50	Chloride	51.416	7.466	20.45	96 4.810	BMB*
3	3.00	Nitrite	37.524	5.863	16.06	92 1.841	bMB
4	3.73	Bromide	6.356	1.034	2.83	98 1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.98	98 1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.34	98 4.899	BMB
<b>Total:</b>			225.938	36.512	100.00	20.801	

After Initials nb

OCT 08 2010

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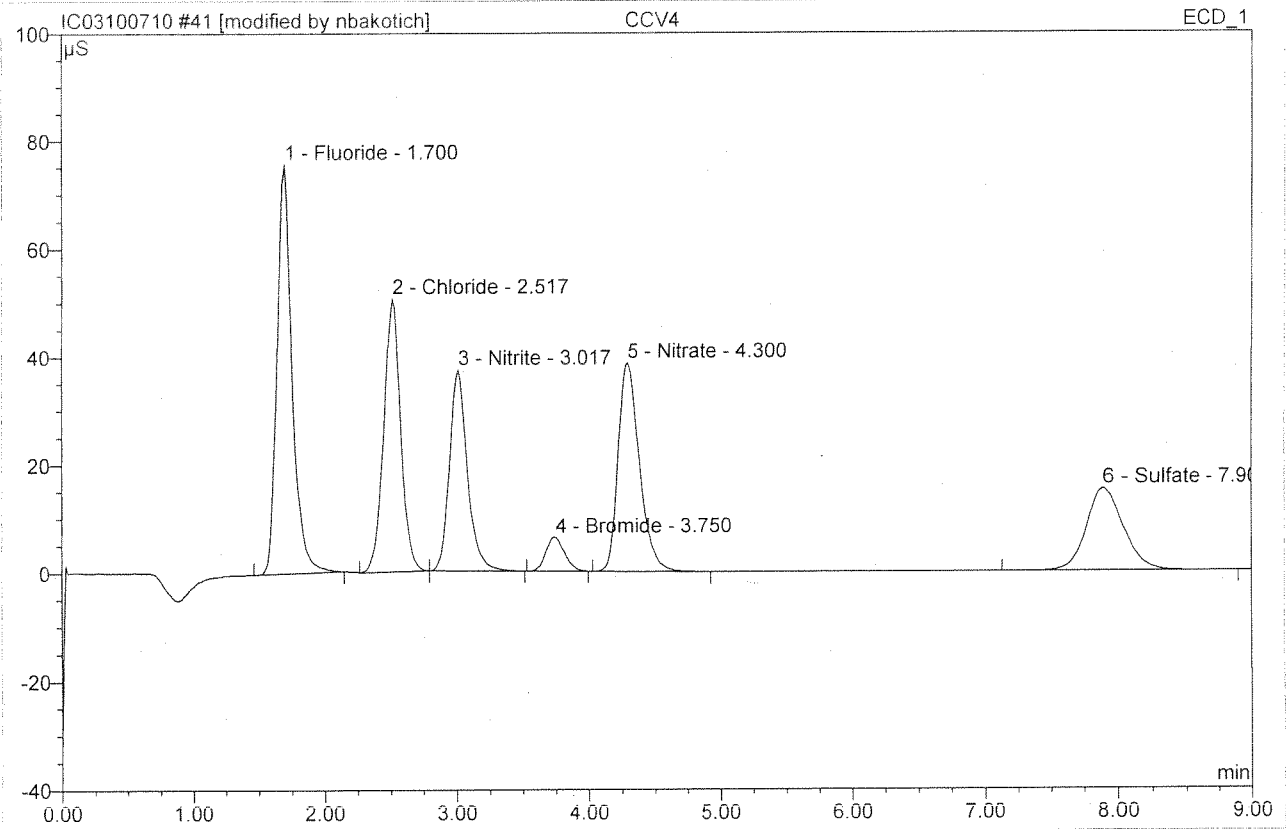
<b>30 CCB3</b>			
<b>CCB3</b>			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



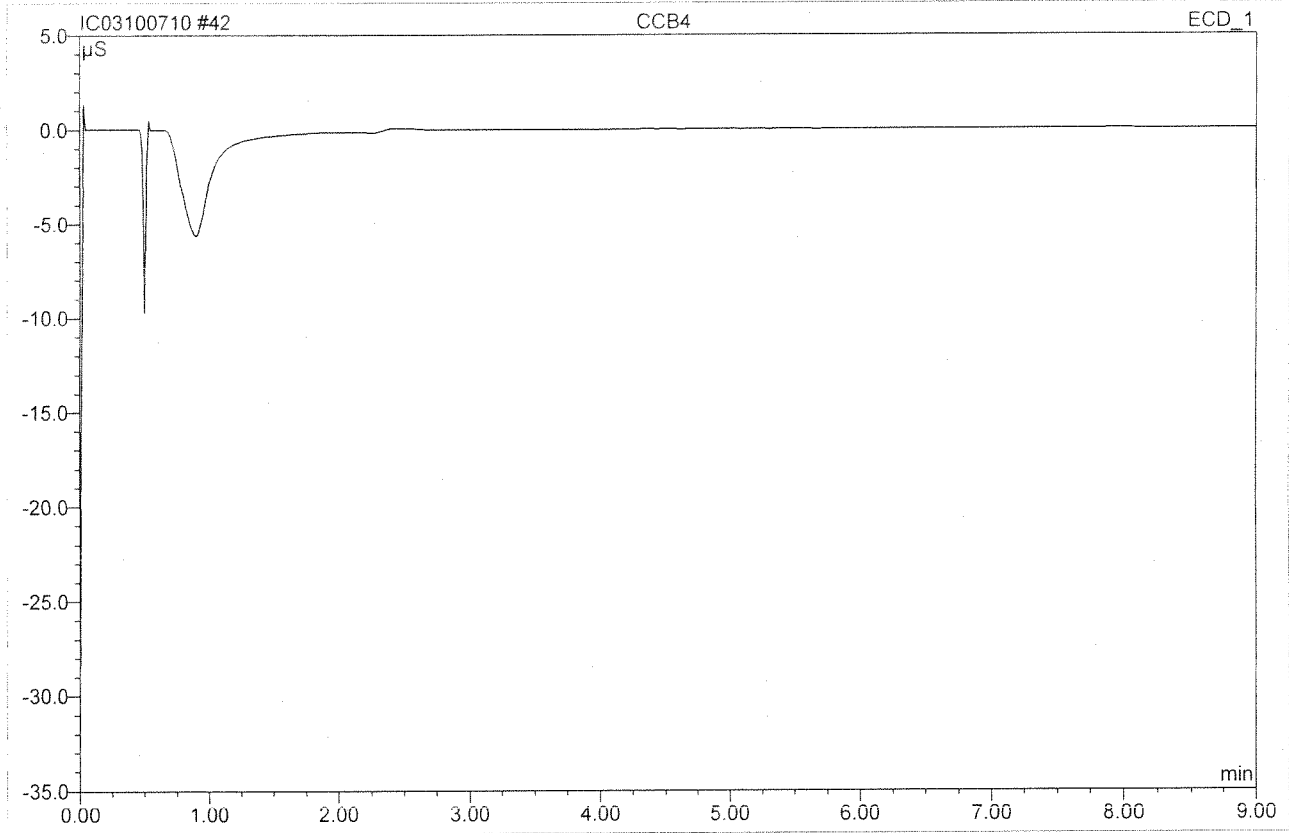
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.848	10.019	27.42	107 5.364	BMB*
2	2.52	Chloride	50.578	7.486	20.49	96 4.822	BMB*
3	3.02	Nitrite	37.308	5.838	15.98	92 1.833	bMB
4	3.75	Bromide	6.309	1.022	2.80	97 1.928	BMB*
5	4.30	Nitrate	38.747	7.284	19.94	98 1.951	BMB*
6	7.90	Sulfate	15.332	4.886	13.37	98 4.914	BMB
<b>Total:</b>			224.123	36.534	100.00	20.813	

After Initials ph

OCT 08 2010

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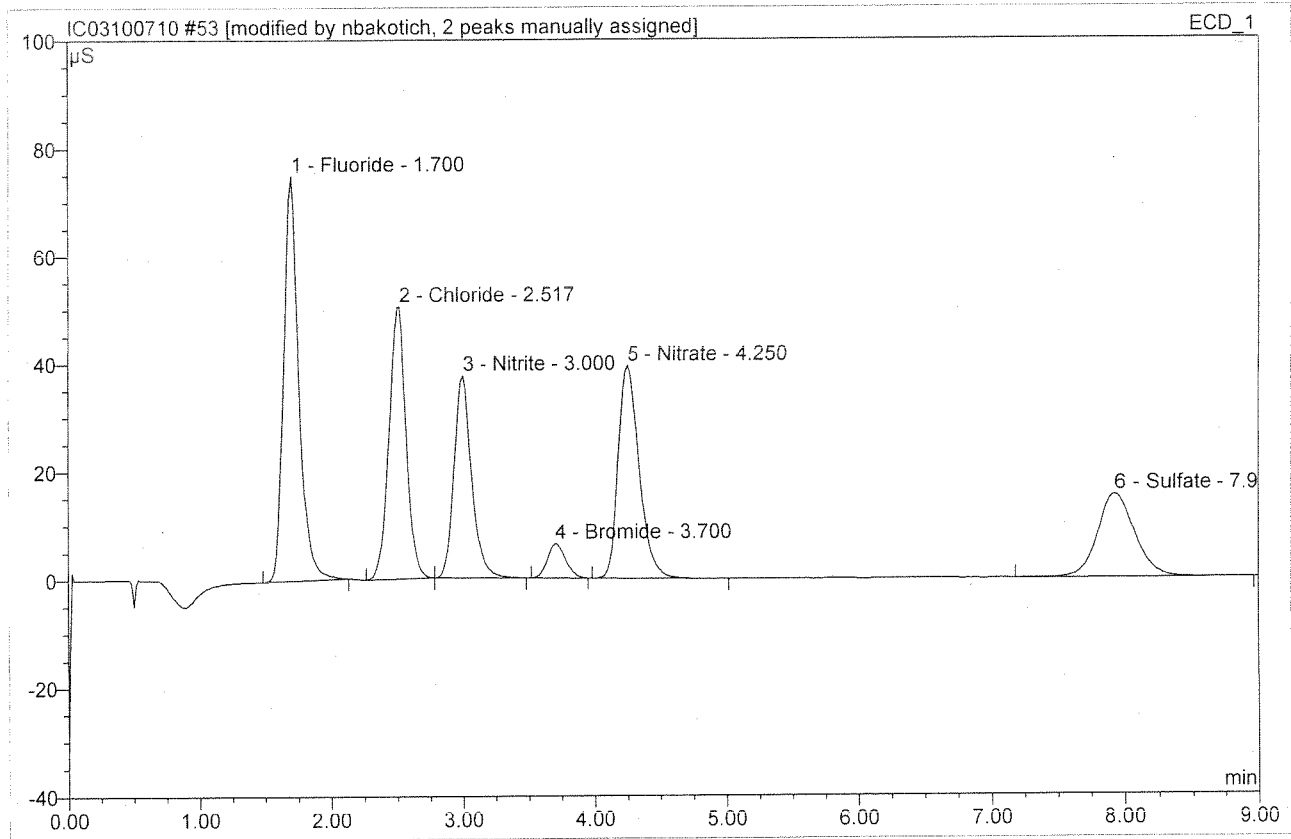
<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*K. 10/10/10*

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.967	9.911	27.33	106 5.306	BMB*^
2	2.52	Chloride	50.316	7.442	20.52	96 4.794	BMB*^
3	3.00	Nitrite	37.435	5.786	15.95	91 1.817	bMB*
4	3.70	Bromide	6.333	1.015	2.80	96 1.915	BMB*
5	4.25	Nitrate	39.296	7.237	19.95	97 1.939	BMB*
6	7.93	Sulfate	15.422	4.879	13.45	98 4.906	BMB
<b>Total:</b>			223.770	36.269	100.00	20.677	

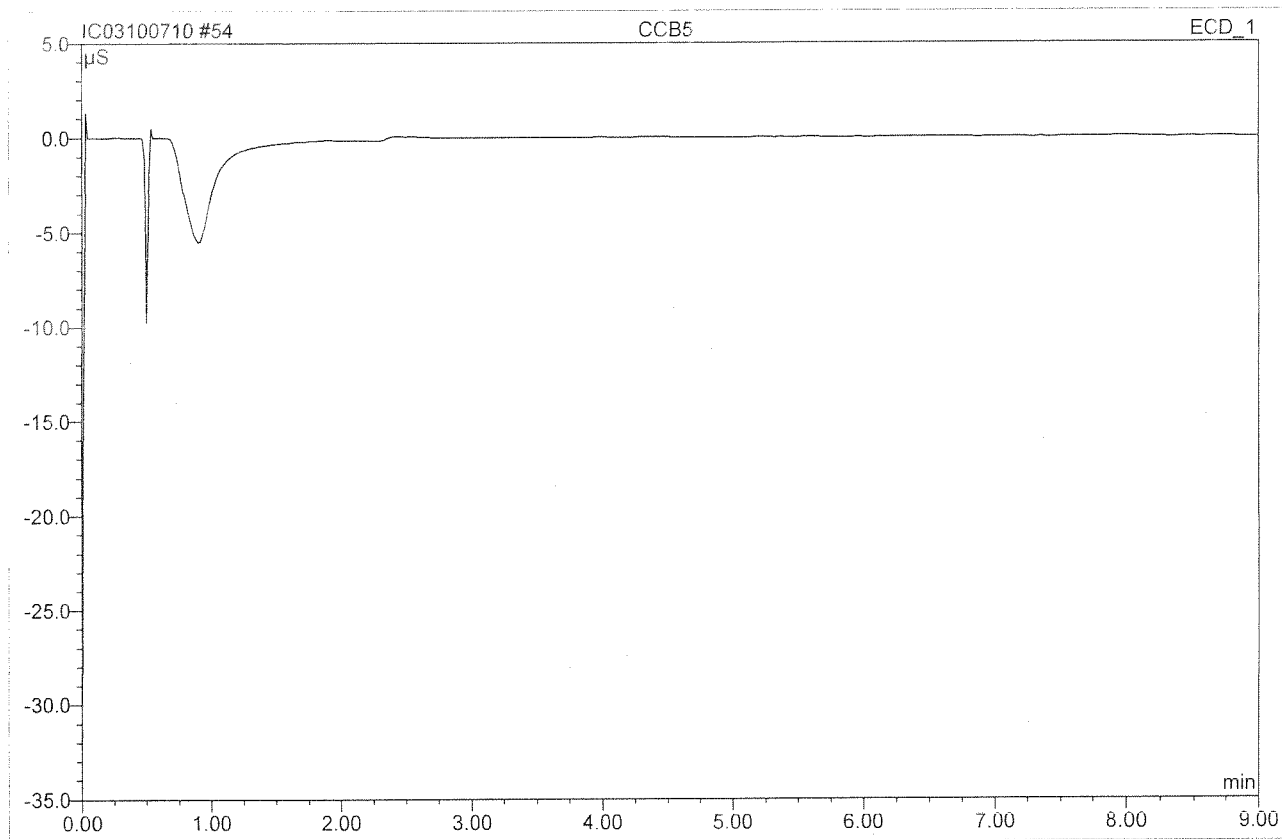
After Initials nb

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10/10/10

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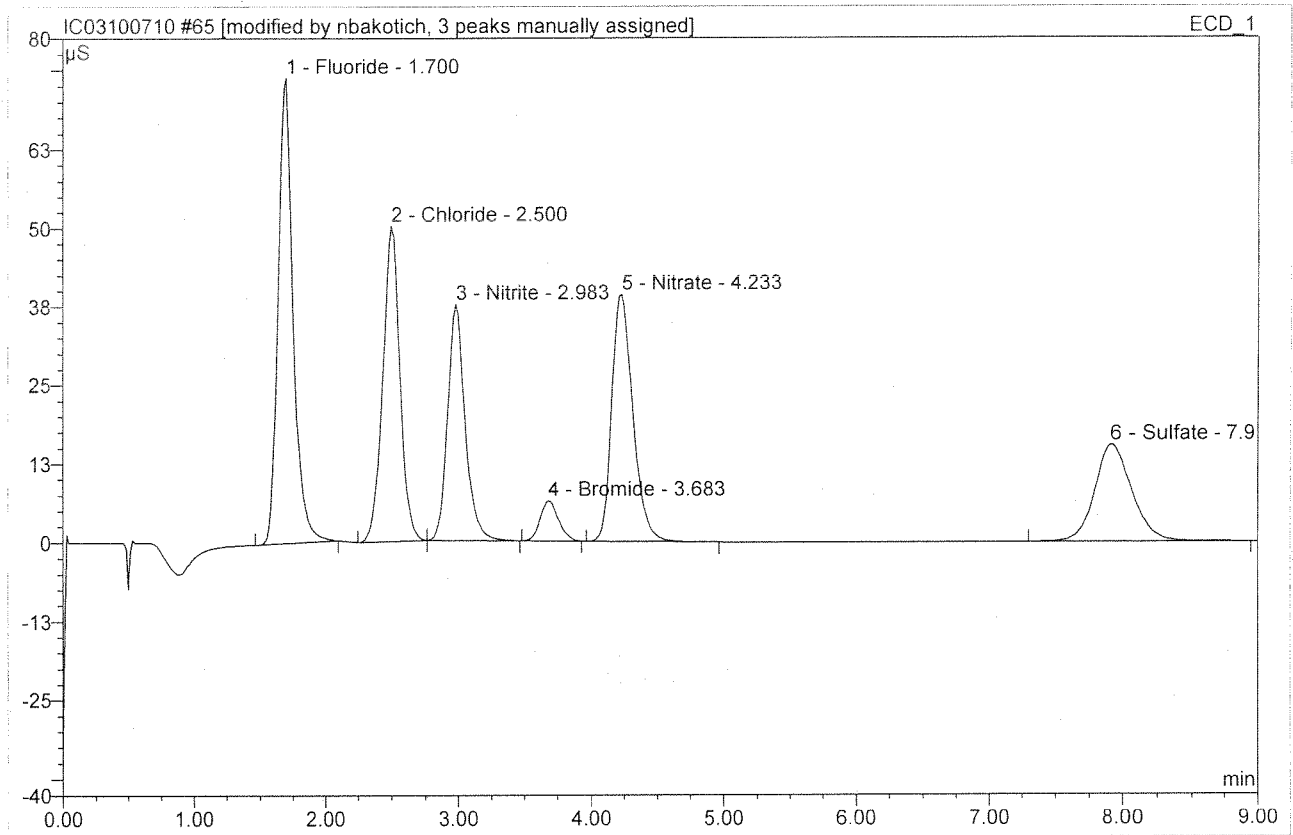
<b>54 CCB5</b>			
<b>CCB5</b>			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 18:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*nbakotich*

<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.855	9.776	27.11	105 5.234	BMB*^
2	2.50	Chloride	50.090	7.401	20.52	95 4.768	BMb*^
3	2.98	Nitrite	37.466	5.758	15.97	91 1.808	bMB*^
4	3.68	Bromide	6.379	1.020	2.83	97 1.925	BMB*
5	4.23	Nitrate	39.241	7.242	20.08	97 1.940	BMB*
6	7.92	Sulfate	15.352	4.865	13.49	98 4.893	BMB
<b>Total:</b>			222.382	36.062	100.00	20.568	

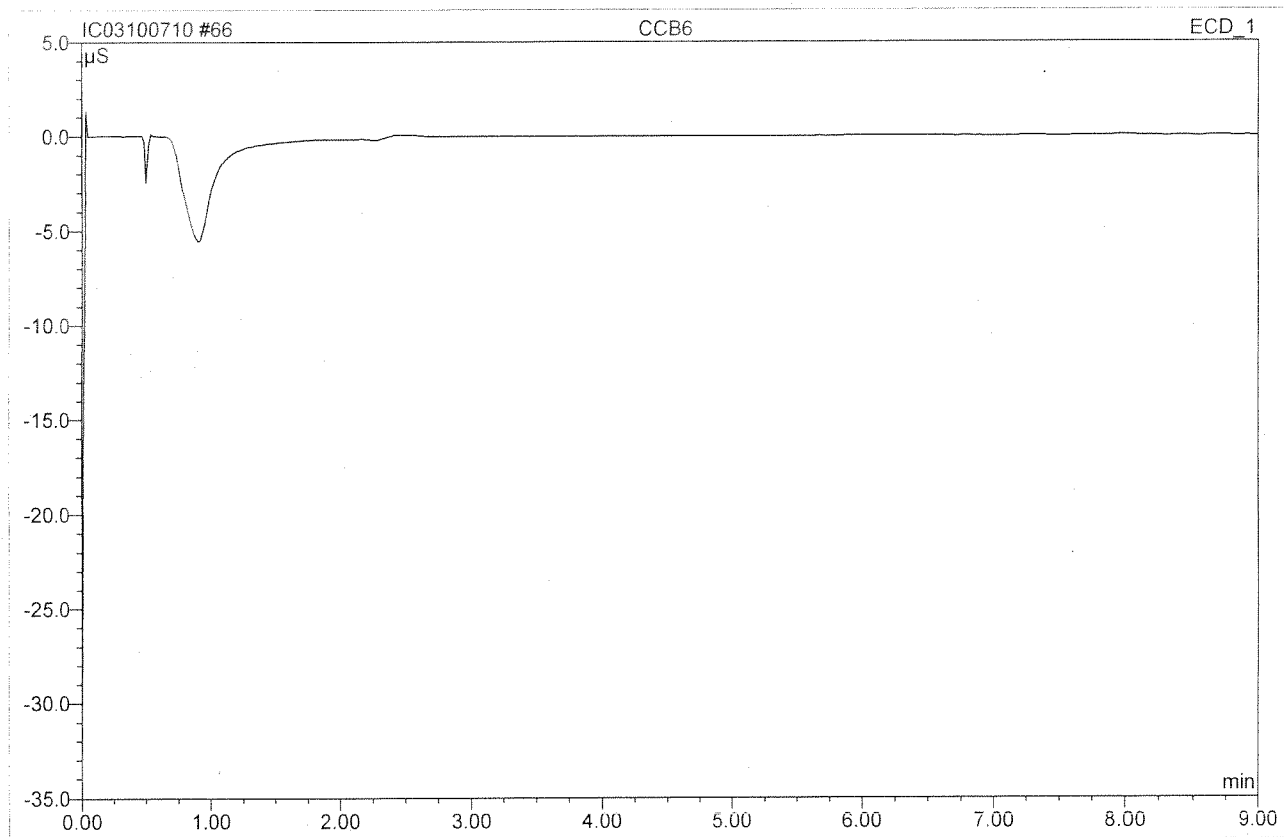
After Initials nb

OCT 08 2010

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10/10/10

default/Integration  Wrong Peak/Peak not Found  
 Baseline/show...  
 Other...

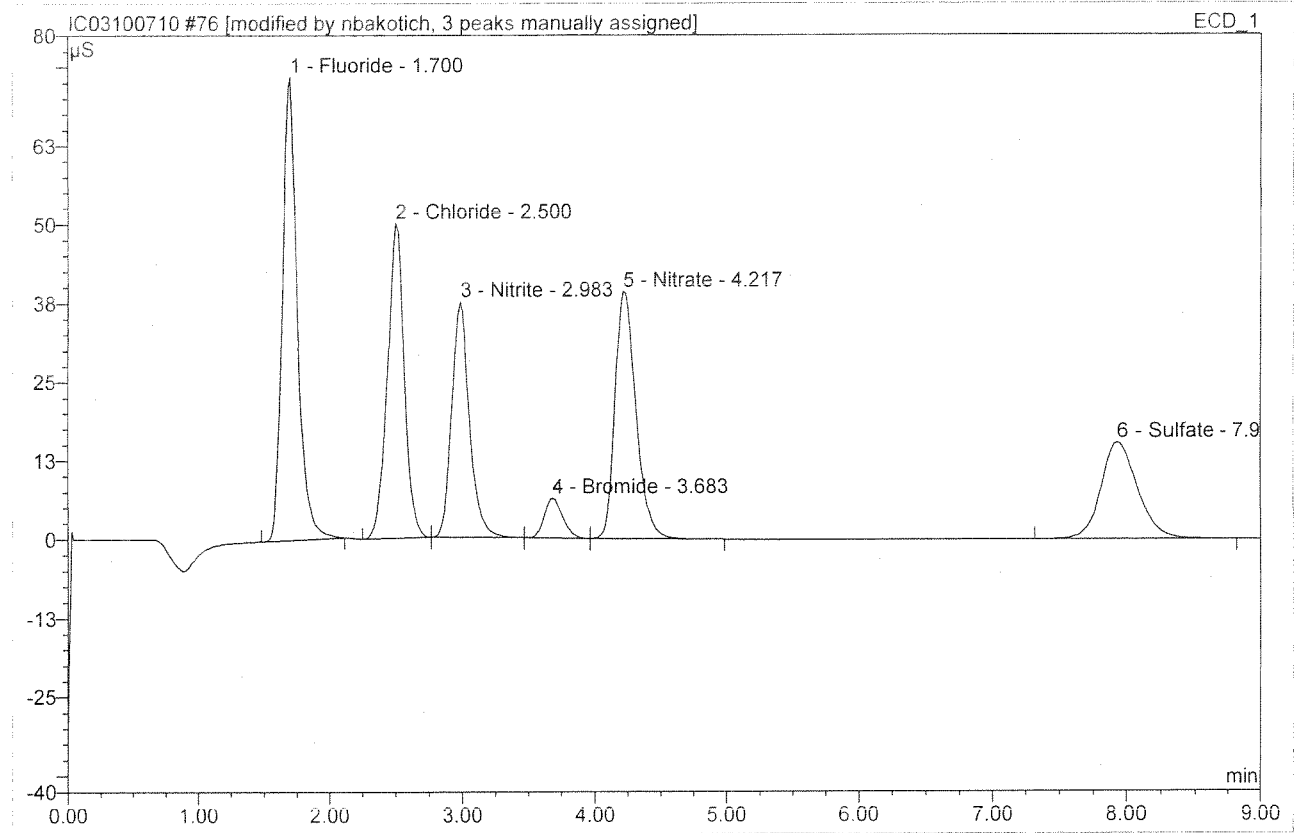
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	73.579	9.754	27.10	104 5.223	BMB**
2	2.50	Chloride	49.968	7.366	20.46	95 4.745	BMb**
3	2.98	Nitrite	37.379	5.775	16.04	91 1.814	bMb^
4	3.68	Bromide	6.423	1.025	2.85	97 1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.11	97 1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.44	97 4.864	BMB
<b>Total:</b>			221.983	35.995	100.00	20.519	

After Initials nb

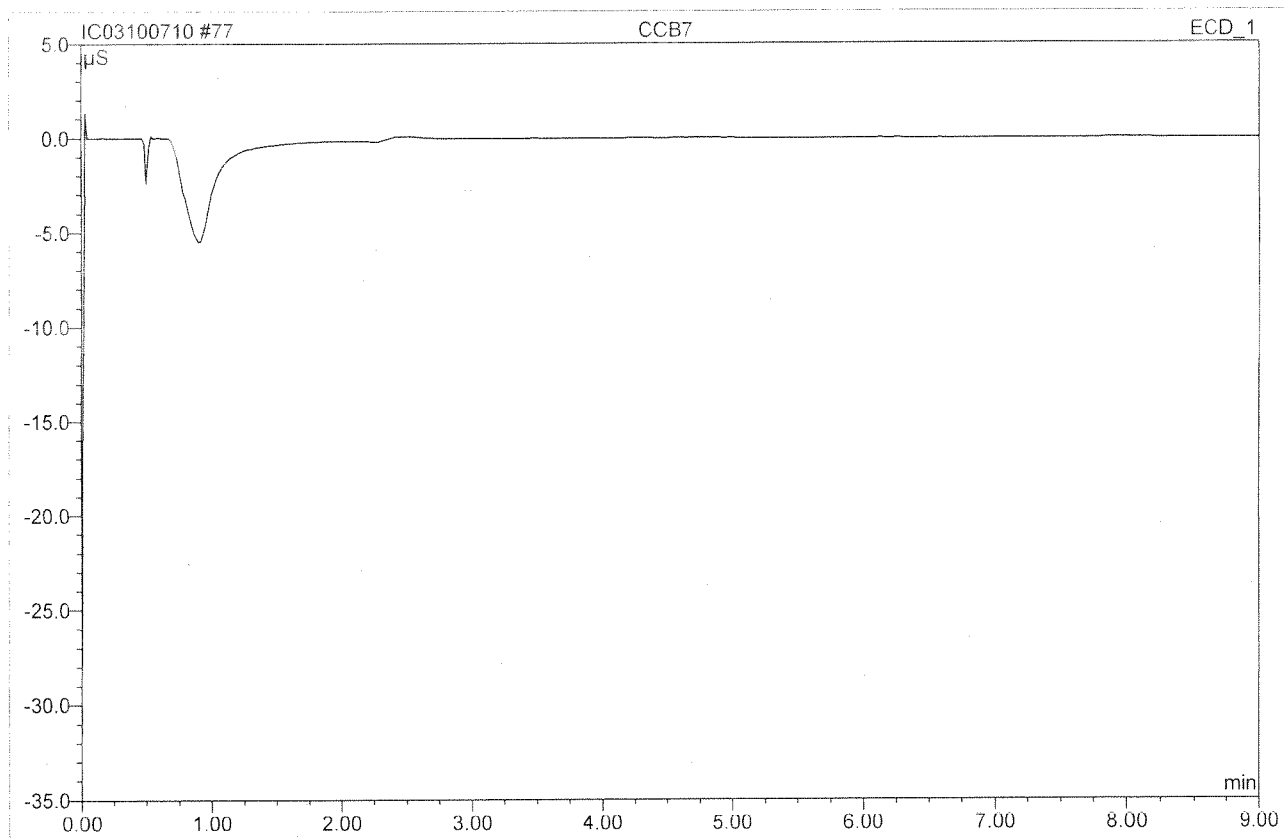
OCT 08 2010

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default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other 175

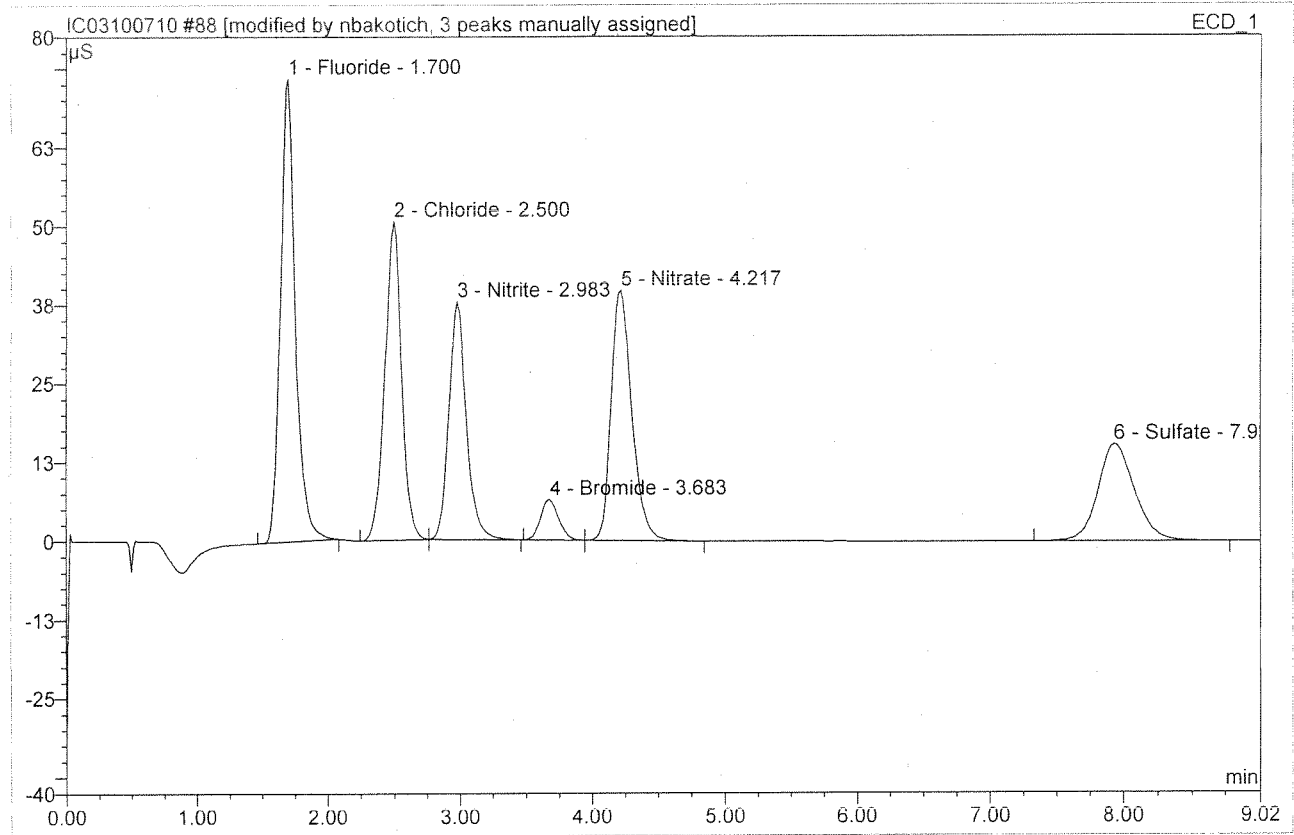
<b>77 CCB7</b>			
<b>CCB7</b>			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:24	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:30	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000



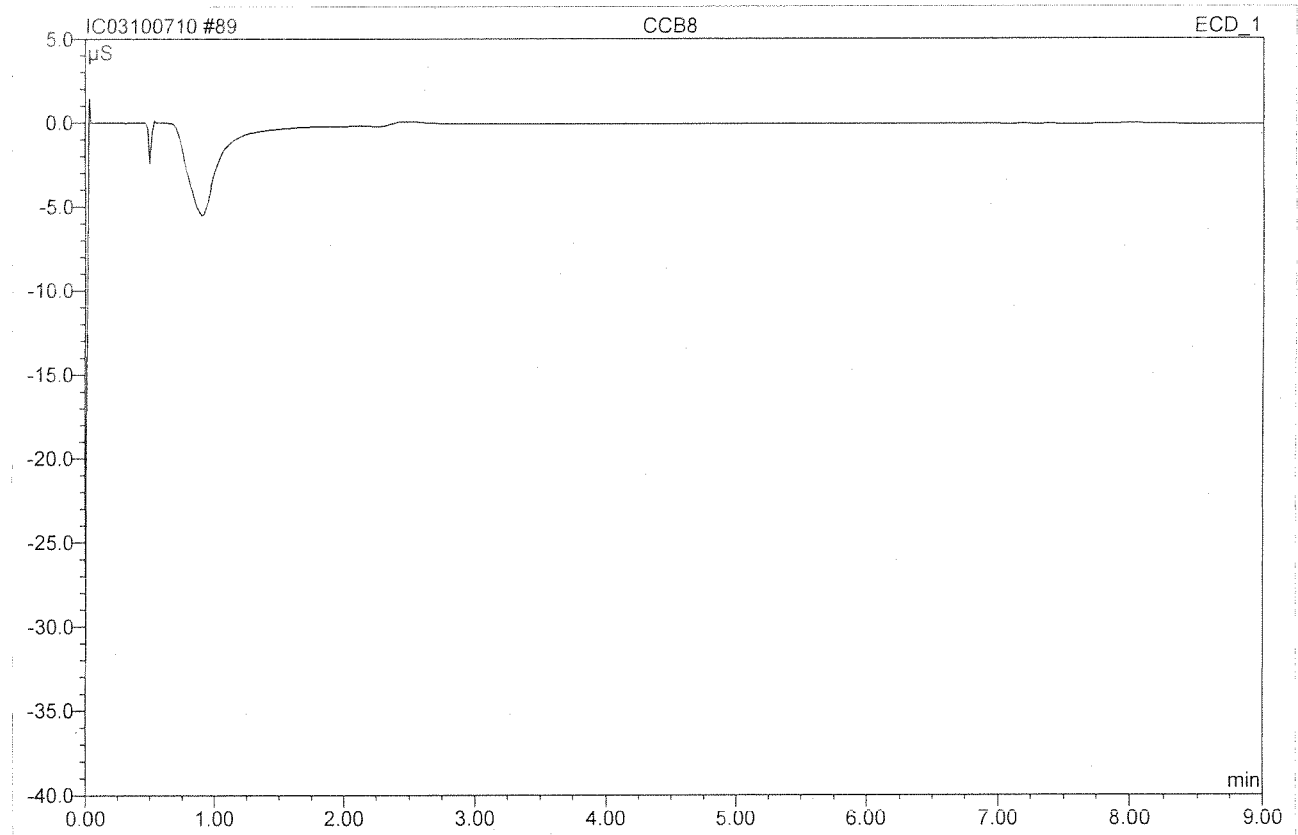
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	73.611	9.705	27.00	104 5.196	BMB**^
2	2.50	Chloride	50.630	7.413	20.62	96 4.775	BMb**^
3	2.98	Nitrite	37.654	5.782	16.08	91 1.816	bMB**^
4	3.68	Bromide	6.421	1.026	2.85	97 1.937	BMb*
5	4.22	Nitrate	39.711	7.178	19.97	96 1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.48	97 4.873	BMB
<b>Total:</b>			223.415	35.949	100.00	20.519	

After Initials nb

OCT 08 2010

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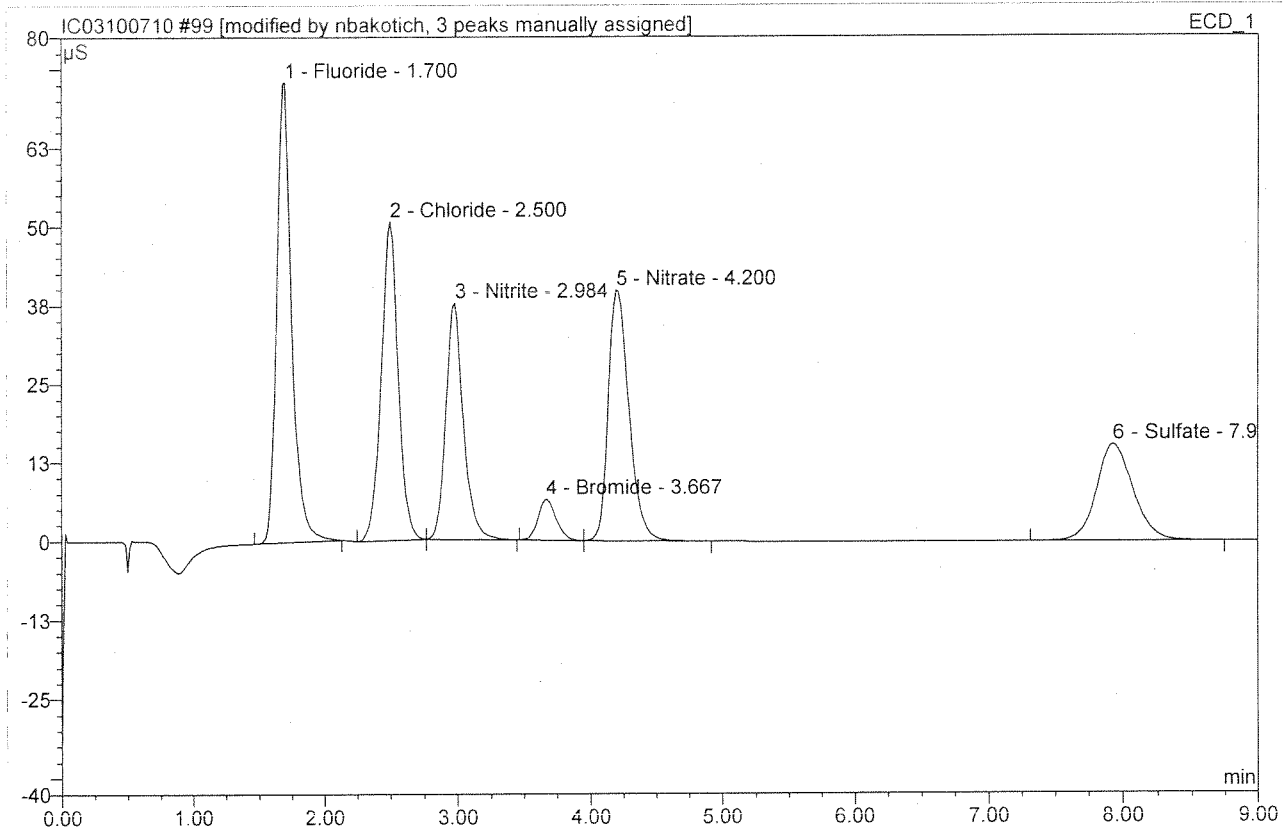
<b>89 CCB8</b>			
<b>CCB8</b>			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	88	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height $\mu$ S	Area $\mu$ S*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.136	9.724	27.05	104 5.206	BMB*^
2	2.50	Chloride	50.664	7.399	20.58	95 4.766	BMB*^
3	2.98	Nitrite	37.592	5.753	16.00	91 1.807	bMB^
4	3.67	Bromide	6.520	1.032	2.87	98 1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.16	97 1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.33	96 4.819	BMB
<b>Total:</b>			223.162	35.944	100.00	20.486	

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OCT 08 2010

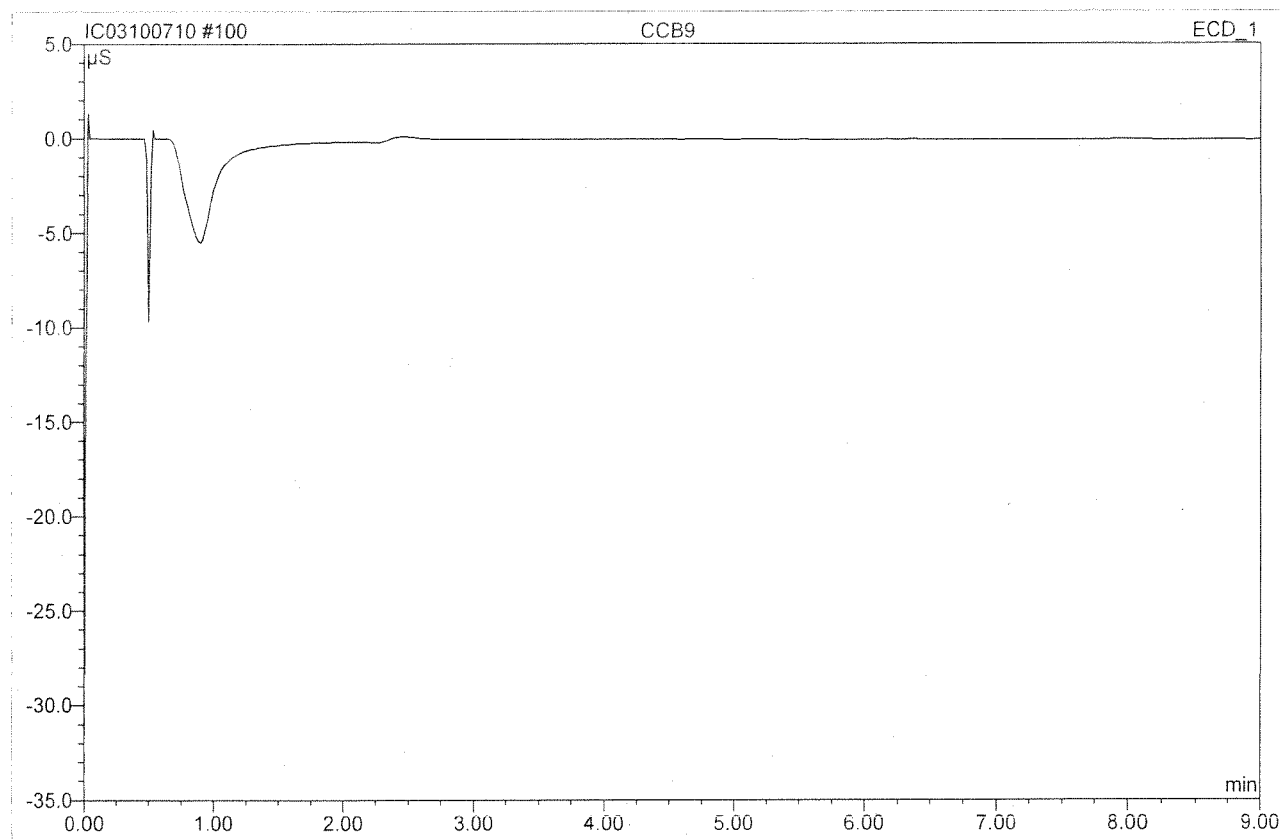
Wrong Peak/Peak not Found  
Label/liner/shoulder Incorrect  
Other

default/Integration

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238



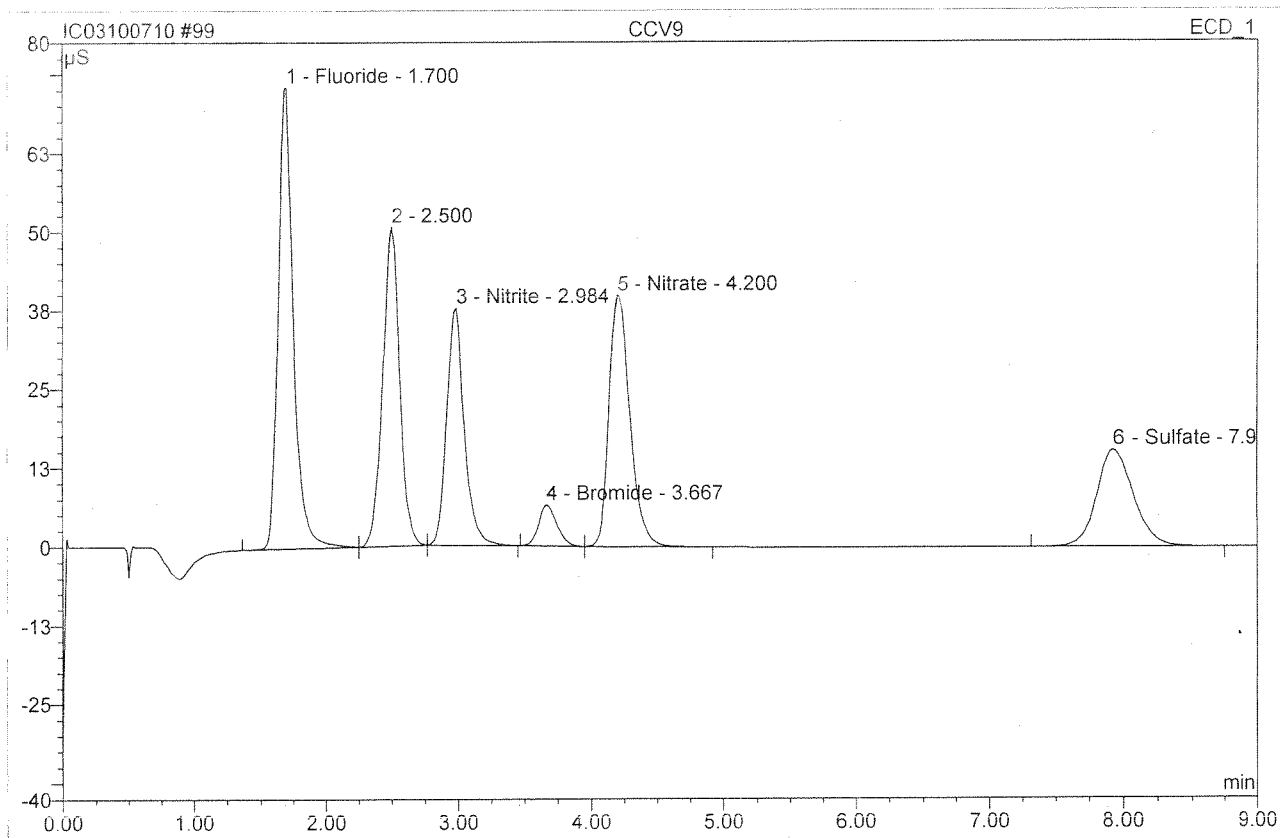
<b>100 CCB9</b>			
<b>CCB9</b>			
Sample Name:	CCB9	Injection Volume:	200.0
Vial Number:	99	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*H. [Signature]*

<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



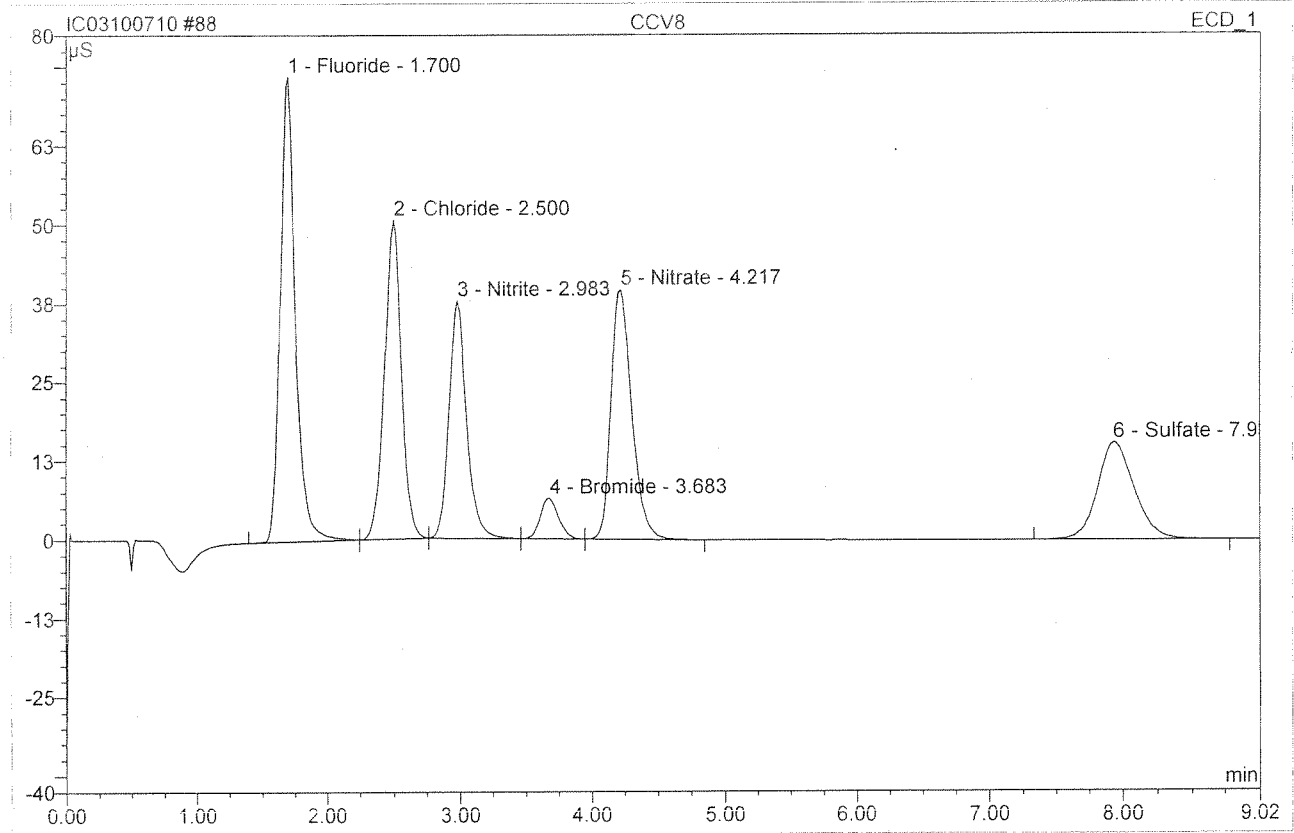
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.255	9.844	27.29	5.270	BMb
2	2.50	n.a.	50.664	7.399	20.52	n.a.	bMb
3	2.98	Nitrite	37.592	5.753	15.95	1.807	bMB
4	3.67	Bromide	6.520	1.032	2.86	1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.09	1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.29	4.819	BMB
<b>Total:</b>			223.281	36.064	100.00	15.784	

Before

OCT 08 2010

*K. O. / K. O.*

<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:30	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000

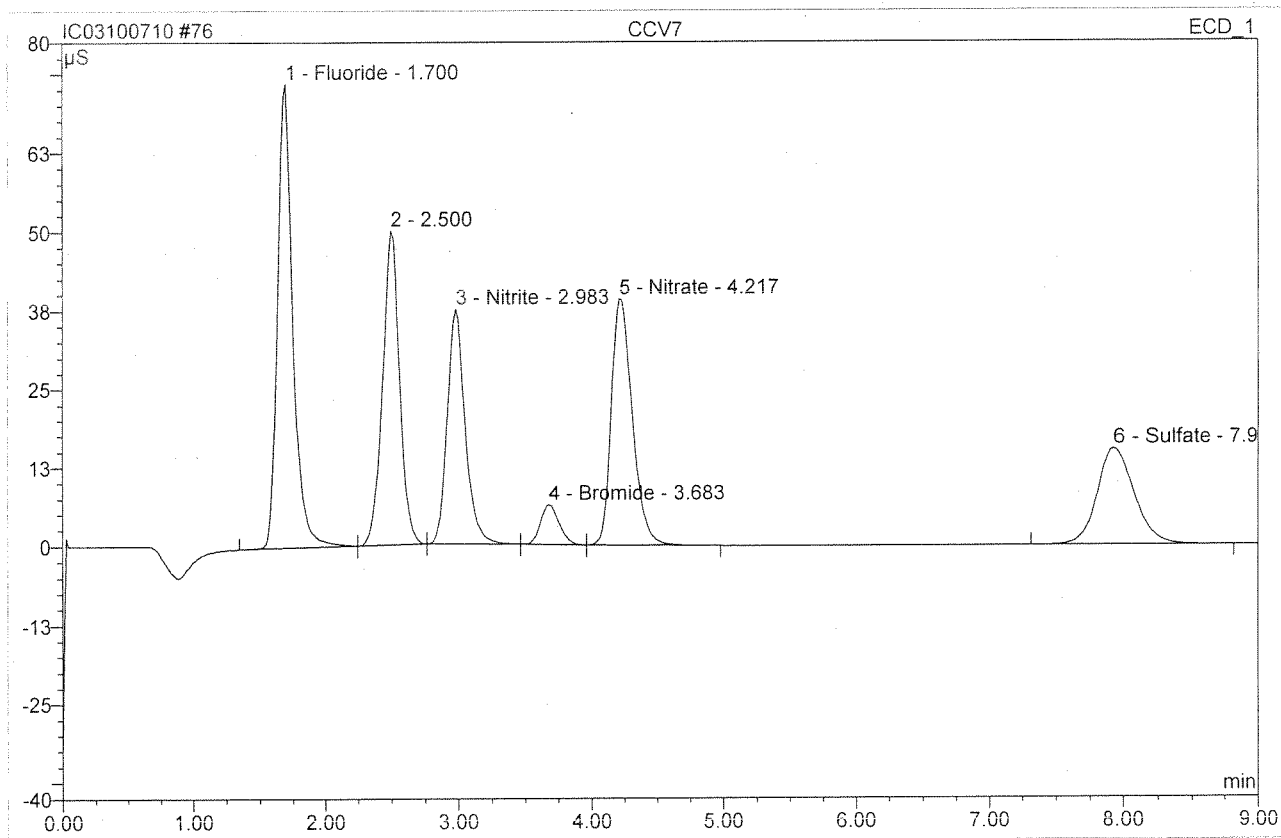


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	73.789	9.879	27.35	5.290	BMb
2	2.50	Chloride	50.630	7.413	20.52	4.775	bMb
3	2.98	Nitrite	37.654	5.782	16.00	1.816	bMb
4	3.68	Bromide	6.429	1.029	2.85	1.943	bMb
5	4.22	Nitrate	39.711	7.178	19.87	1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.41	4.873	BMB
<b>Total:</b>			223.599	36.127	100.00	20.619	

Before

OCT 08 2010

<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

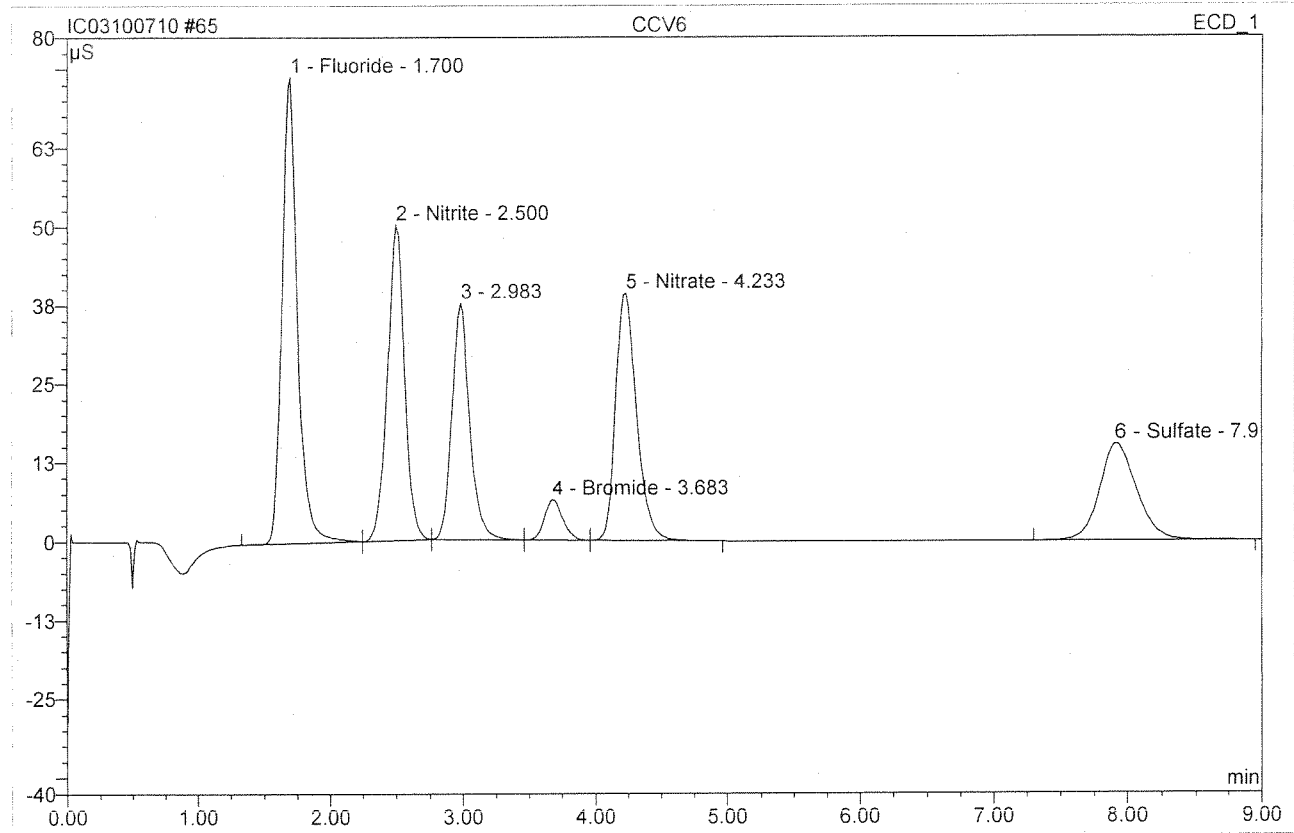


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.720	9.897	27.39	5.299	BMb
2	2.50	n.a.	49.968	7.366	20.38	n.a.	bMb
3	2.98	Nitrite	37.379	5.775	15.98	1.814	bMb
4	3.68	Bromide	6.423	1.025	2.84	1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.03	1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.38	4.864	BMB
<b>Total:</b>			222.124	36.138	100.00	15.850	

Before

OCT 08 2010

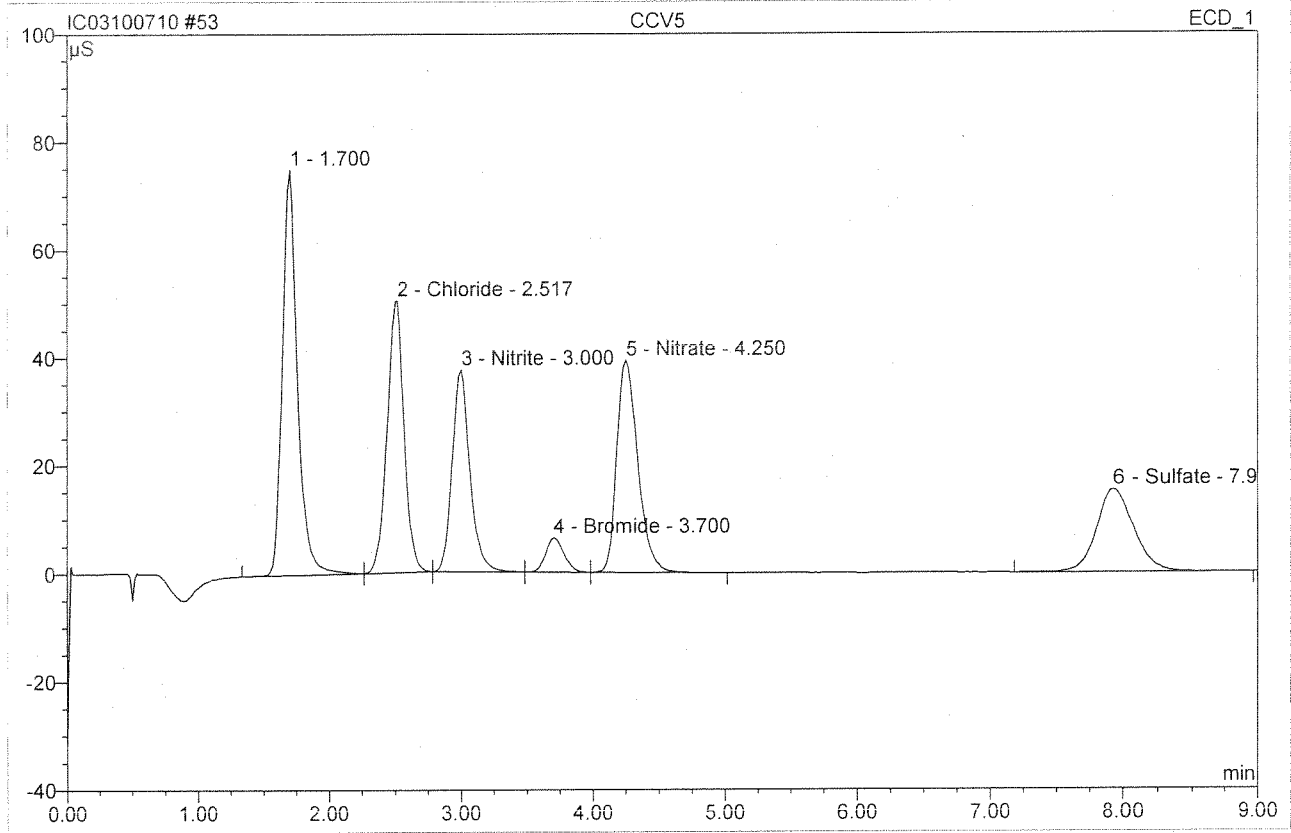
<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.026	9.944	27.44	5.324	BMB
2	2.50	Nitrite	50.090	7.401	20.42	2.324	bMb
3	2.98	n.a.	37.466	5.758	15.89	n.a.	bMb
4	3.68	Bromide	6.398	1.030	2.84	1.943	bMb
5	4.23	Nitrate	39.241	7.242	19.98	1.940	bMB
6	7.92	Sulfate	15.352	4.865	13.43	4.893	BMB
<b>Total:</b>		<b>Before</b>	222.573	36.240	100.00	16.424	

OCT 08 2010

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

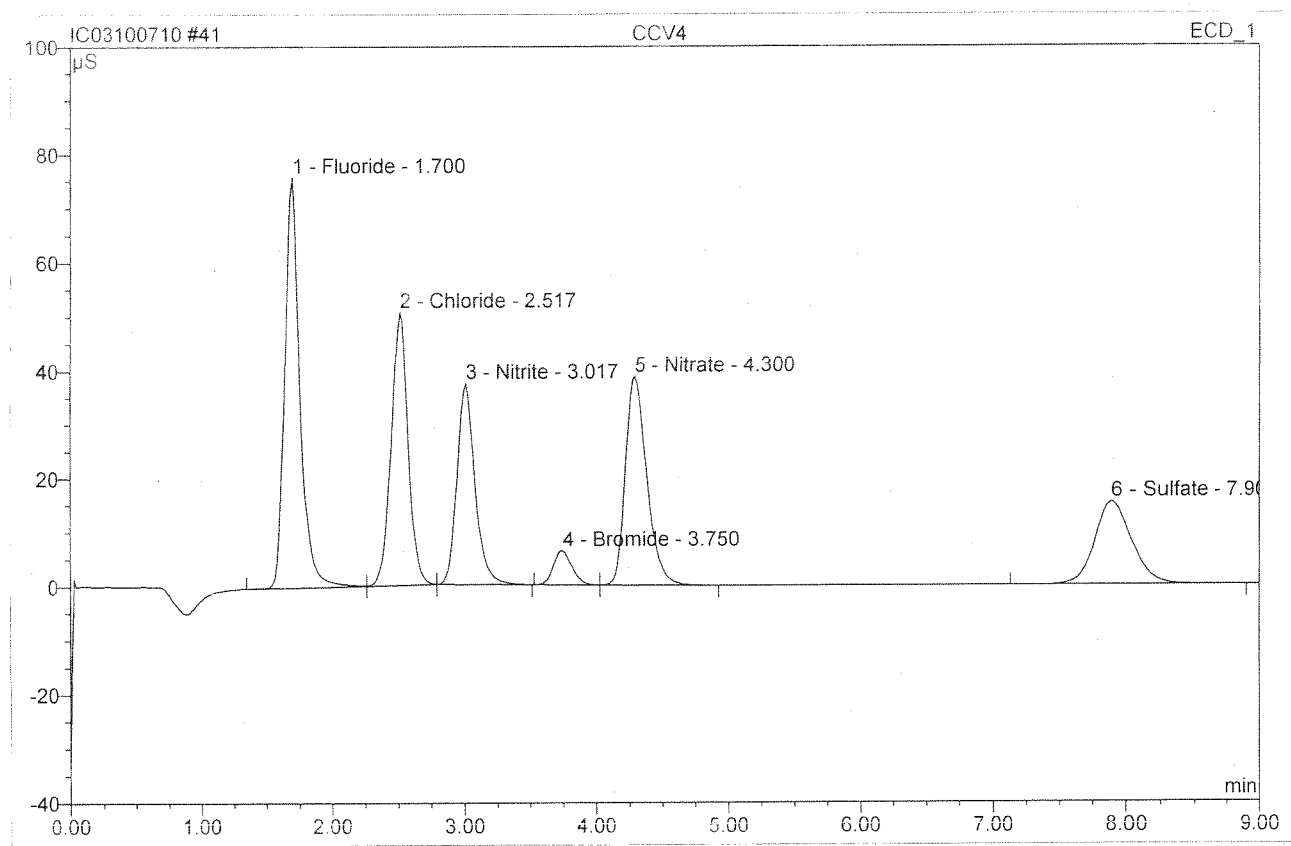


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	n.a.	75.100	10.049	27.59	n.a.	BMb
2	2.52	Chloride	50.316	7.442	20.43	4.794	bMb
3	3.00	Nitrite	37.435	5.786	15.89	1.817	bMb
4	3.70	Bromide	6.363	1.028	2.82	1.941	bMb
5	4.25	Nitrate	39.296	7.237	19.87	1.939	bMB
6	7.93	Sulfate	15.422	4.879	13.39	4.906	BMB
<b>Total:</b>			223.933	36.421	100.00	15.397	

Before

OCT 08 2010

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

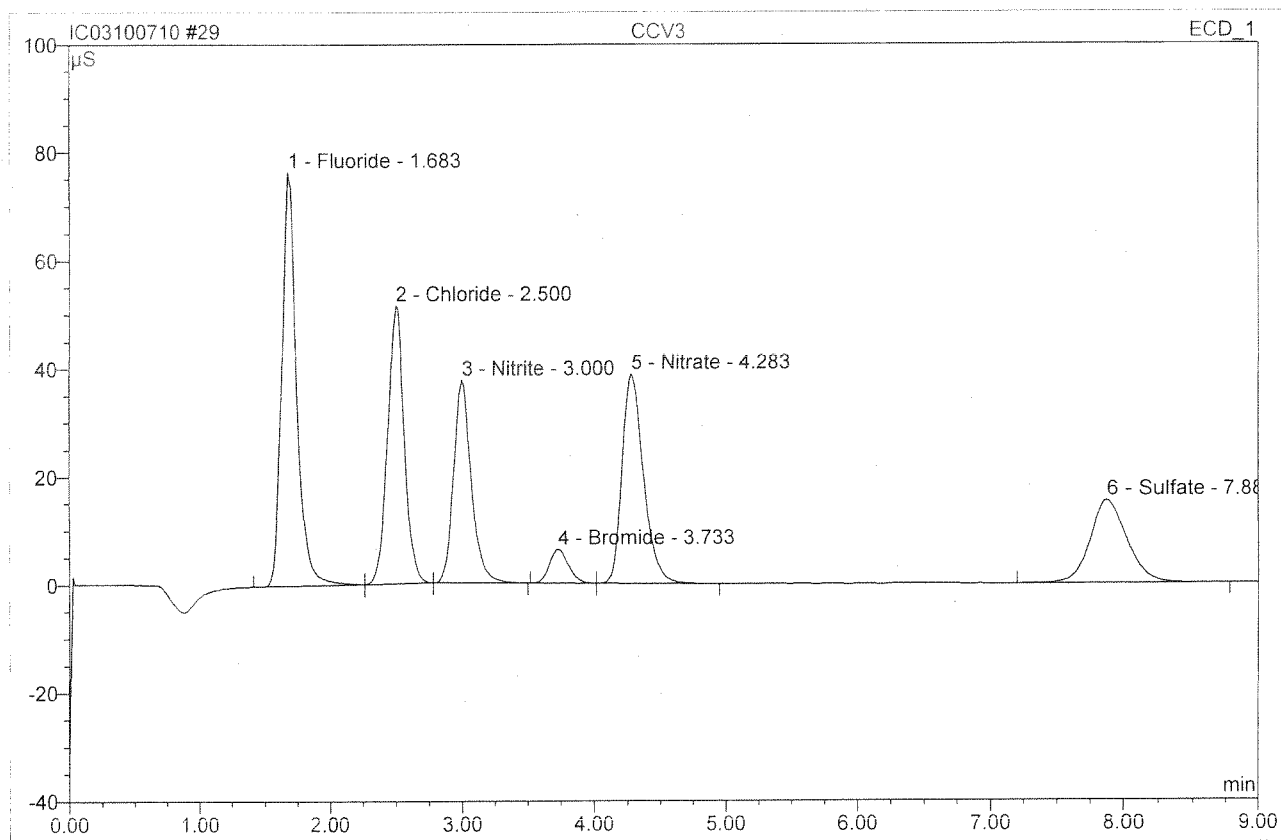


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.967	10.143	27.67	5.431	BMb
2	2.52	Chloride	50.578	7.486	20.42	4.822	bMb
3	3.02	Nitrite	37.308	5.838	15.92	1.833	bMB
4	3.75	Bromide	6.318	1.027	2.80	1.937	BMb
5	4.30	Nitrate	38.747	7.284	19.87	1.951	bMB
6	7.90	Sulfate	15.332	4.886	13.33	4.914	BMB
<b>Total:</b>			224.252	36.664	100.00	20.889	

Before

OCT 08 2010

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



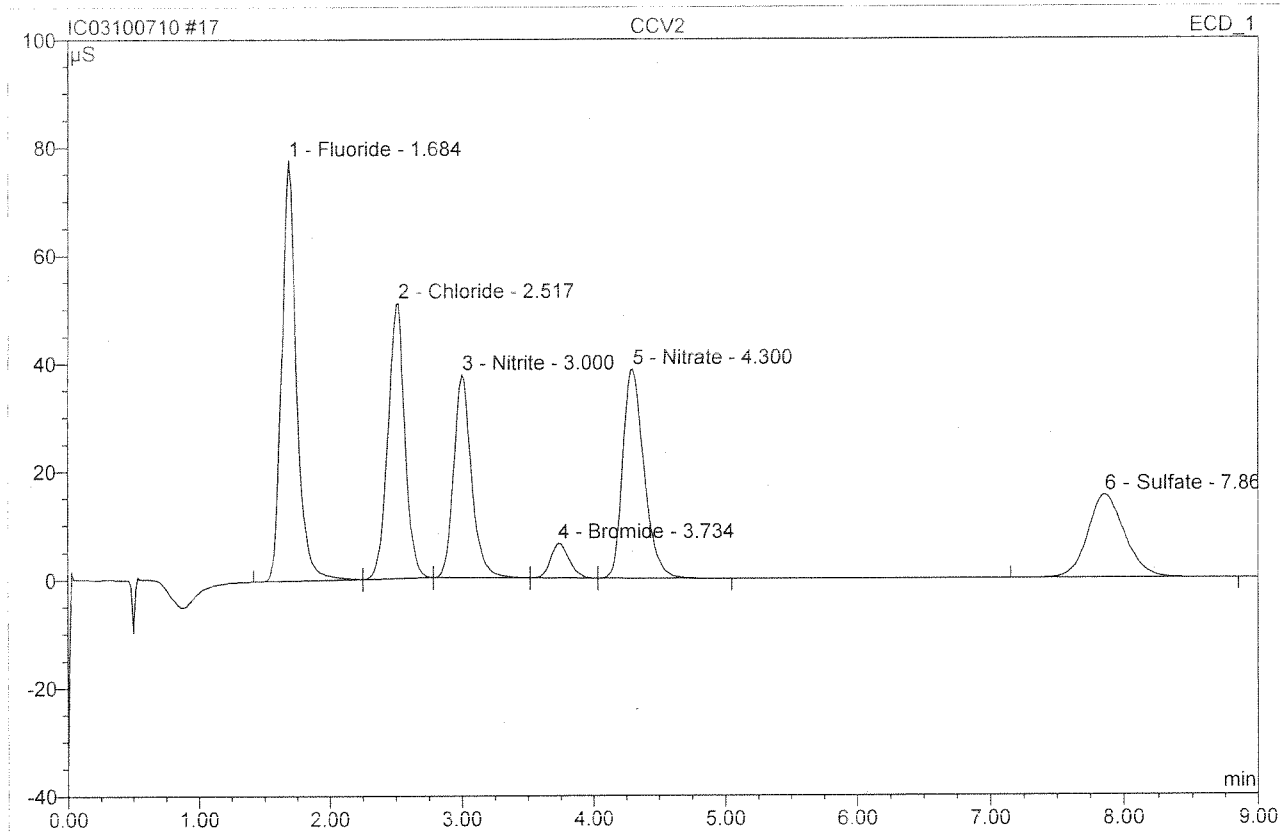
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	76.553	10.129	27.63	5.423	BMB
2	2.50	Chloride	51.416	7.466	20.37	4.810	bMb
3	3.00	Nitrite	37.524	5.863	15.99	1.841	bMB
4	3.73	Bromide	6.356	1.034	2.82	1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.90	1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.29	4.899	BMB
<b>Total:</b>			226.072	36.660	100.00	20.880	

Before

OCT 08 2010



<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

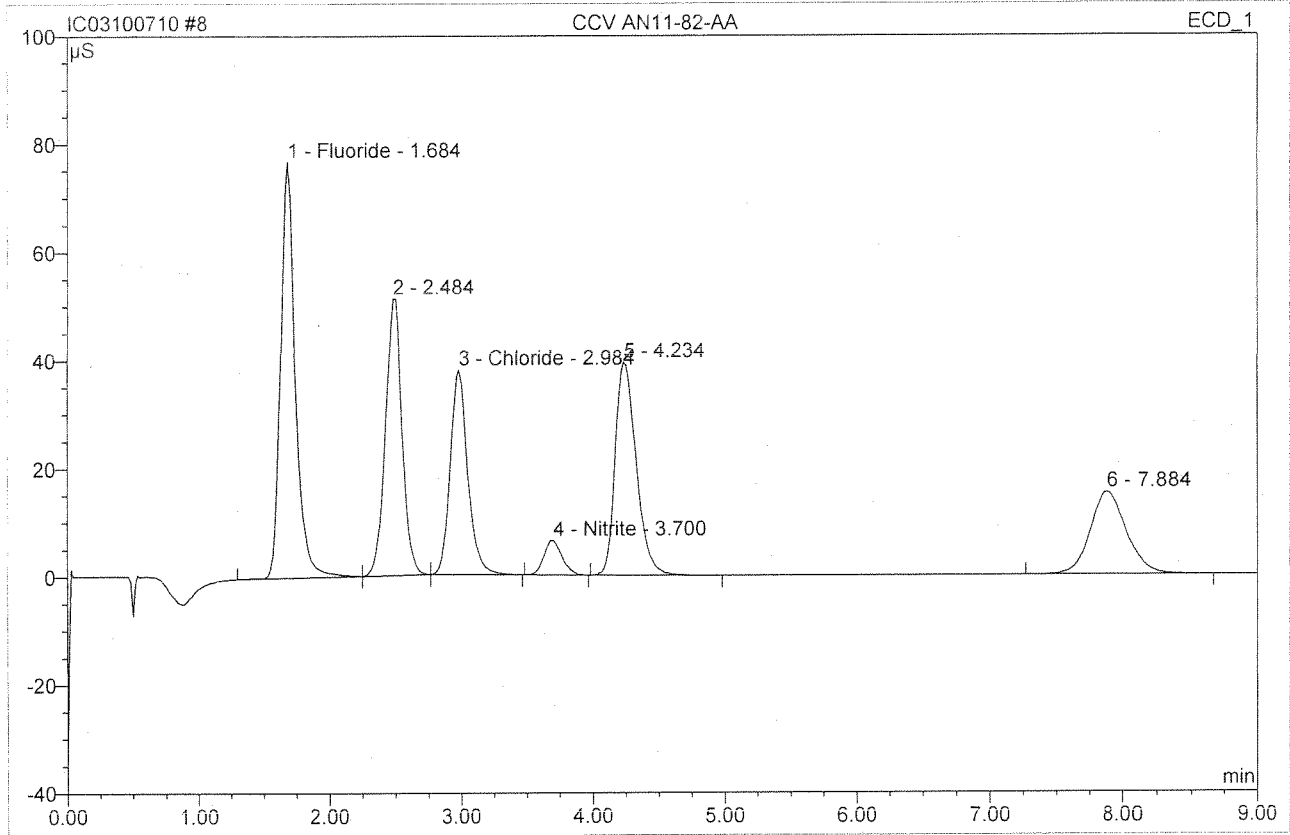


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.761	10.256	27.82	5.491	BMb
2	2.52	Chloride	50.996	7.527	20.42	4.849	bMb
3	3.00	Nitrite	37.589	5.845	15.86	1.836	bMb
4	3.73	Bromide	6.369	1.041	2.82	1.965	bMb
5	4.30	Nitrate	38.664	7.277	19.74	1.949	bMB
6	7.87	Sulfate	15.414	4.914	13.33	4.942	BMB
<b>Total:</b>			226.793	36.861	100.00	21.032	

Before

OCT 08 2010

<b>8 CCV AN11-82-AA</b>			
Sample Name:	CCV AN11-82-AA	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.903	10.004	27.48	5.356	BMB
2	2.48	n.a.	51.241	7.454	20.48	n.a.	bMB
3	2.98	Chloride	37.906	5.829	16.01	3.755	bMB
4	3.70	Nitrite	6.369	1.024	2.81	0.322	BMB
5	4.23	n.a.	39.419	7.225	19.85	n.a.	BMB
6	7.88	n.a.	15.376	4.866	13.37	n.a.	BMB
<b>Total:</b>			227.214	36.401	100.00	9.433	

Before

OCT 08 2010

Work Request # <sup>Original</sup> (~~K10795~~) K10850 K10899 K11021 K11023 K11025 K11032  
 Tier: III III III II I II II  
 Date Analyzed: 10/13/10 K11236 K11242  
 Analyst: Houngmy II II  
 Analysis: NH<sub>3</sub>-N-350.1/SM 4500-NH<sub>3</sub>G

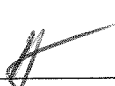
**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: \_\_\_\_\_



Date: \_\_\_\_\_

10/14/10

DQREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01      Analyst: THANGANU      Analysis Lot: 220569      Method/Testcode: 350.1/Ammonia D

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
010795-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010795-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010795-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010850-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010850-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.43 mg/L	5 mL	0.432 mg/L	1	0.020	0.050			10/13/10 10:10:35	N	III
010850-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010850-004	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010899-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
010899-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
011021-001	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	II
011023-001	Ammonia as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011023-001	Ammonium as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011025-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	II
011032-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	II
011236-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	II
011242-001	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	V
21011076-01	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
21011076-01	Ammonia as Nitrogen, Dissolved	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
21011076-01	Ammonium as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III
21011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50	102		10/13/10 10:10:35	N	III
21011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50	102		10/13/10 10:10:35	N	III
21011076-02	Ammonia as Nitrogen, Dissolved	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50	102		10/13/10 10:10:35	N	III
21011076-02	Ammonium as Nitrogen	LCS		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050	102		10/13/10 10:10:35	N	III
21011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-03	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-03	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-04	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-04	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

*10/13/10*  
*Thangnanu*

# Analytical Results Summary

Instrument Name: K-FLA-01      Analyst: THANGANU      Analysis Lot: 220569      Method/Testcode: SM 4500-NH3 G/Ammonia

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
21011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-05	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-05	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-06	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-06	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
21011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-07	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-07	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-08	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-08	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
21011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-09	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-09	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-10	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-10	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
21011076-11	Ammonia as Nitrogen, Dissolved	MS	K1010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1					10/13/10 10:10:35	N	III
21011076-12	Ammonia as Nitrogen, Dissolved	DMS	K1010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1					10/13/10 10:10:35	N	III
21011076-13	Ammonia as Nitrogen, Dissolved	DUP	K1010795-001	Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III

LOS ID#: B7L NH<sub>3</sub>/-35-A      T.V. = 14.3  
 Spike ID#: B7L NH<sub>3</sub>/-86-D      T.V. = 2.00  
 Curve, CV ID#: B7L NH<sub>3</sub>/-56-X      T.V. = 2.00  
 MBMS = 2.00

10/13/10  
 Ferguson

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**BRAN+LUEBBE**

Post-run report

Name of Run : 101013A  
 Date of Report : 10/13/2010  
 Date of Run : 10/13/2010  
 Operator :  
 Comment :

Name of Analysis : Ammonia  
 System No. : 1  
 Type of System : AA3  
 Start/Stop time : 10:10 - 11:13

Channel : 2  
 Method : Method 2  
 Unit : mg/L  
 Calibr. Fit : Linear  
 Corr. Coeff. : 1.0000  
 Base : -18318  
 Gain : 19  
 Sensitivity : 0.4576  
 Sample Limit 1 :  
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0057
1	1	P Primer	4.9962
2	1	D Drift	4.9950
3	1	C 5.00	4.9943
4	2	C 2.00	2.0152
5	3	C 0.50	0.4951
6	4	C 0.05	0.0498
7	5	C 0	-0.0045
8	0	B Baseline	-0.0057
9	1	H1 High	5.0082
10	0	L1 Low	0.0048
11	0	L1 Low	0.0049
12	5	QC2 CCB1	0.0037
13	2	QC1 CCV1	2.0200
14	10	QC3 LCS1*10	1.4588
15	11	S MB MS	2.0291
16	0	N Null	0.0016N
17	5	QC2 MB1	0.0037
18	12	S k1010795-001	0.0007
19	13	S k1010795-001d	0.0020
20	14	S k1010795-001ms	2.0387
21	15	S k1010795-001msd	2.0390
22	16	S k1010795-002	0.0023
23	0	B Baseline	-0.0057
24	5	QC2 CCB2	0.0031
25	2	QC1 CCV2	2.0187
26	17	S k1010795-003	-0.0003

} Diss.

-Diss

10/13/10  
 Hauptman

27	18	S	k1010850-001	0.0151
28	19	S	k1010850-002	0.0016
29	20	S	k1010850-003	0.4315
30	21	S	k1010850-004	0.0001
31	22	S	k1010899-001	0.0084
32	23	S	k1010899-002	0.0001
33	24	S	k1011021-001	0.0209
34	25	S	k1011023-001*5	2.1033
35	0	B	BASELINE	-0.0057
36	5	QC2	CCB-3	-0.0037
37	2	QC1	CCV-3	2.0069
38	26	S	k1011025-001	0.0121
39	27	S	k1011032-001	0.0074
40	28	S	k1011217-002	11.0048*
41	29	S	k1011228-001	0.0654 } HR
42	30	S	k1011236-001	0.0104
43	31	S	k1011242-001	0.0339
44	0	B	Baseline	-0.0057
45	5	QC2	CCB4	-0.0035
46	2	QC1	CCV4	2.0103
47	1	D	Drift	4.9950
48	0	B	Baseline	-0.0057
49	0	B	FinalBase	-0.0057

## QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

## CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed

10/13/10  
*Flourens*

BRAN+LUEBBE AACE 6.02

Post-run Report

N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/13/10  
Ferguson



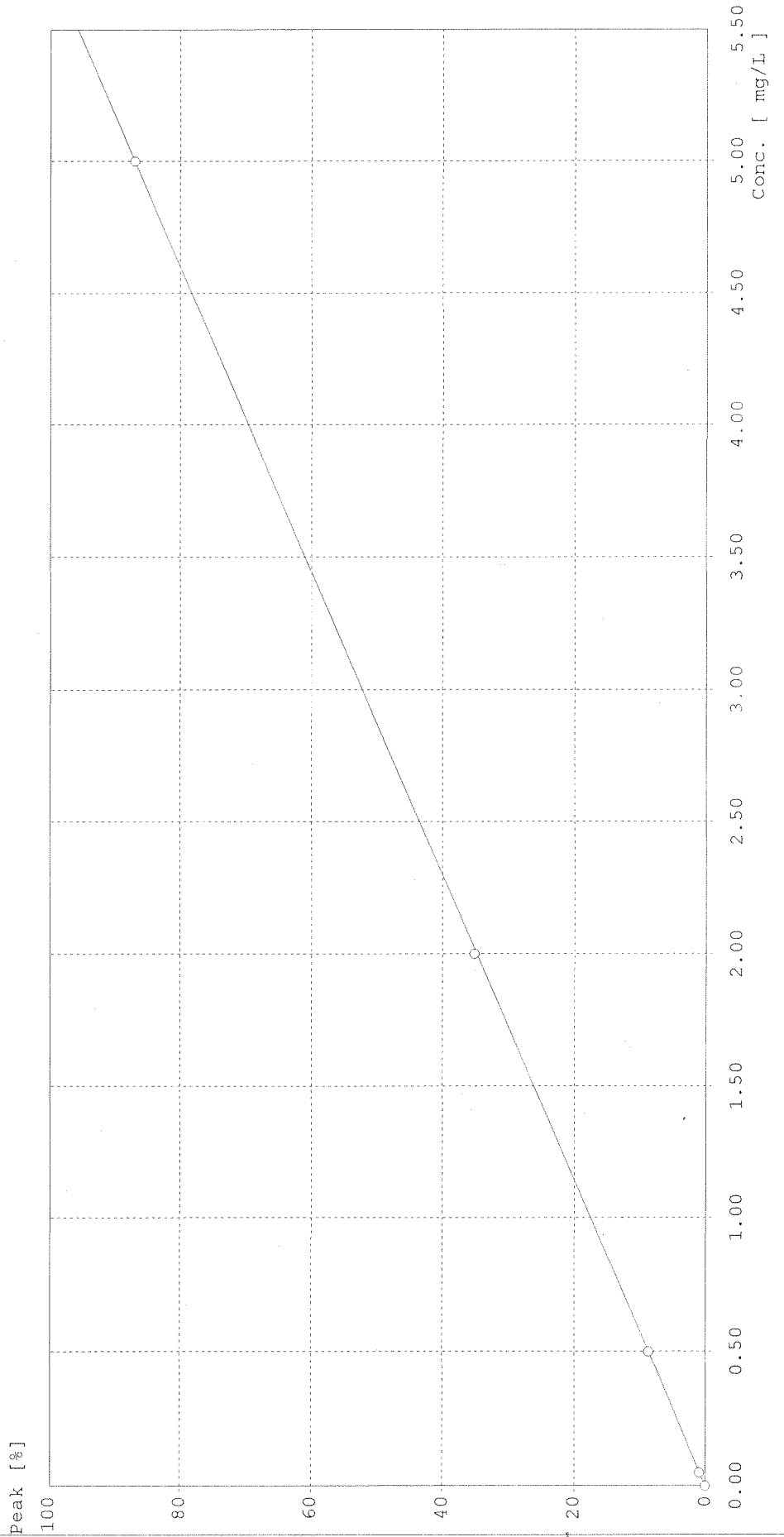
# BRAN+LUEBBE

Calibration Curve

Name of analysis : Ammonia

Name of run : 101013A.run  
Comment :

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.0827E-001      b=8.7765E-005  
Corr. coeff. : 1.0000



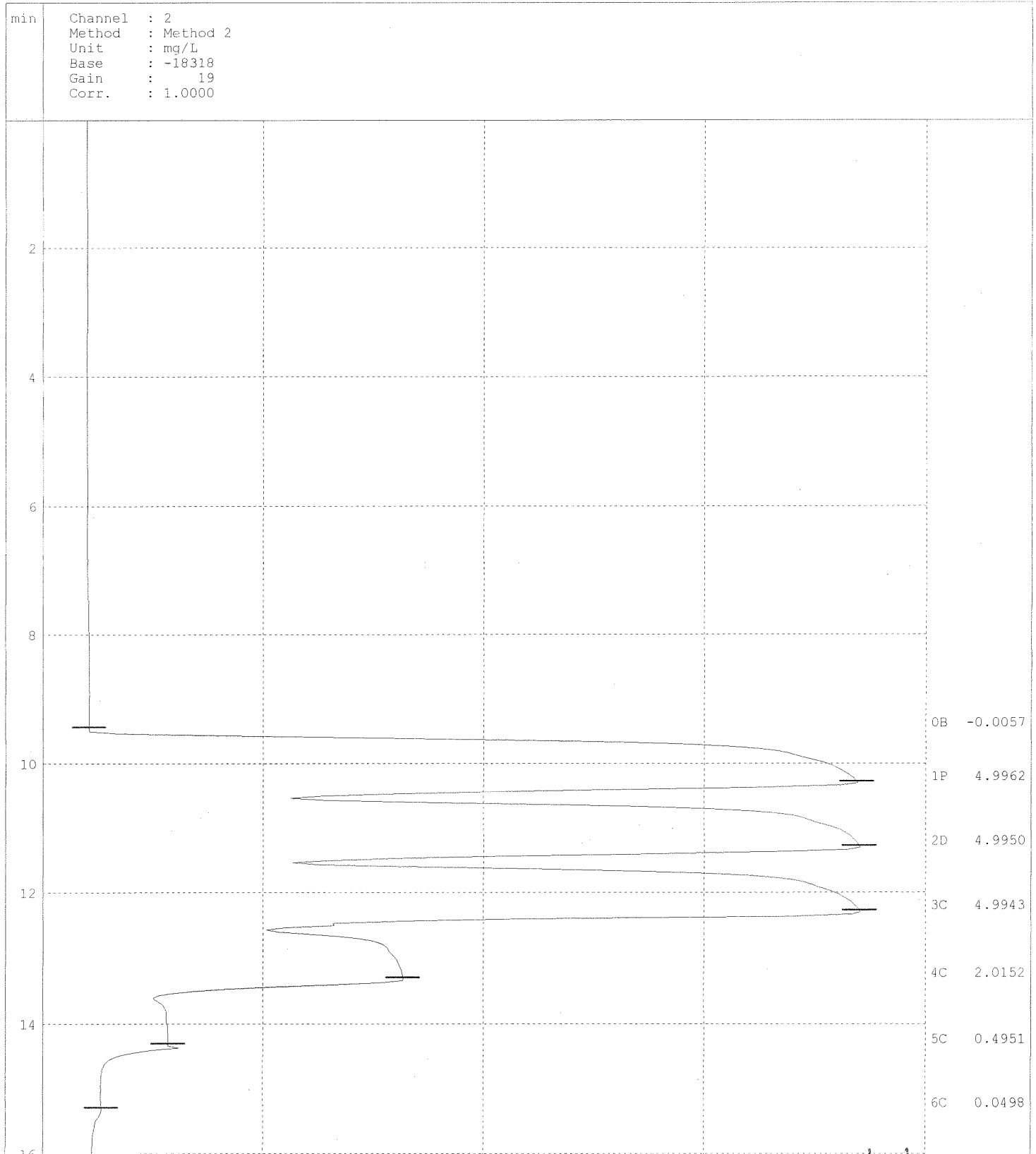
10/13/10  
Haugen

# BRAN+LUEBBE

Post-run chart

Name of run : 101013A.RUN  
Comment :

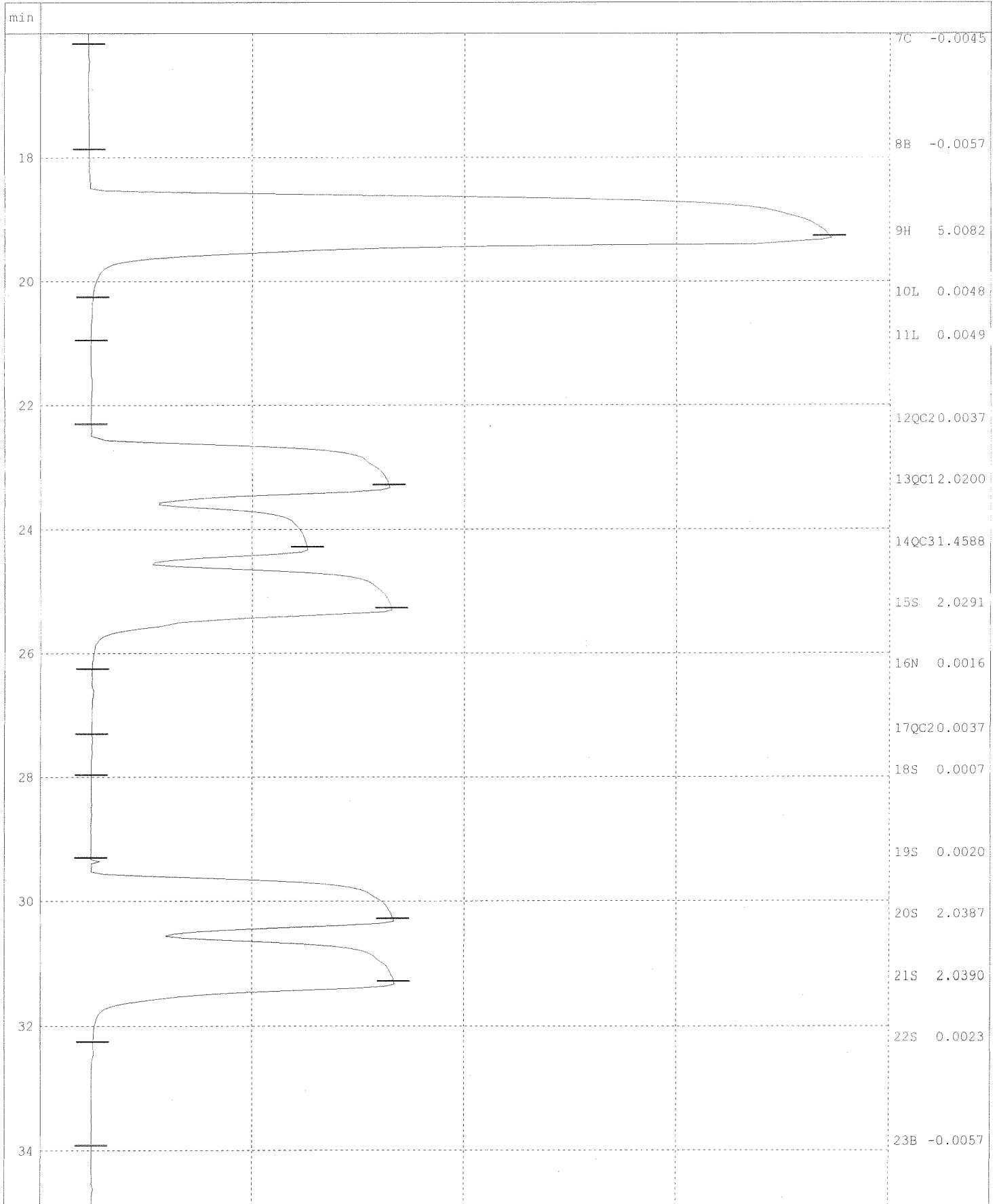
Name of analysis : Ammonia



10/13/10  
Fouquier

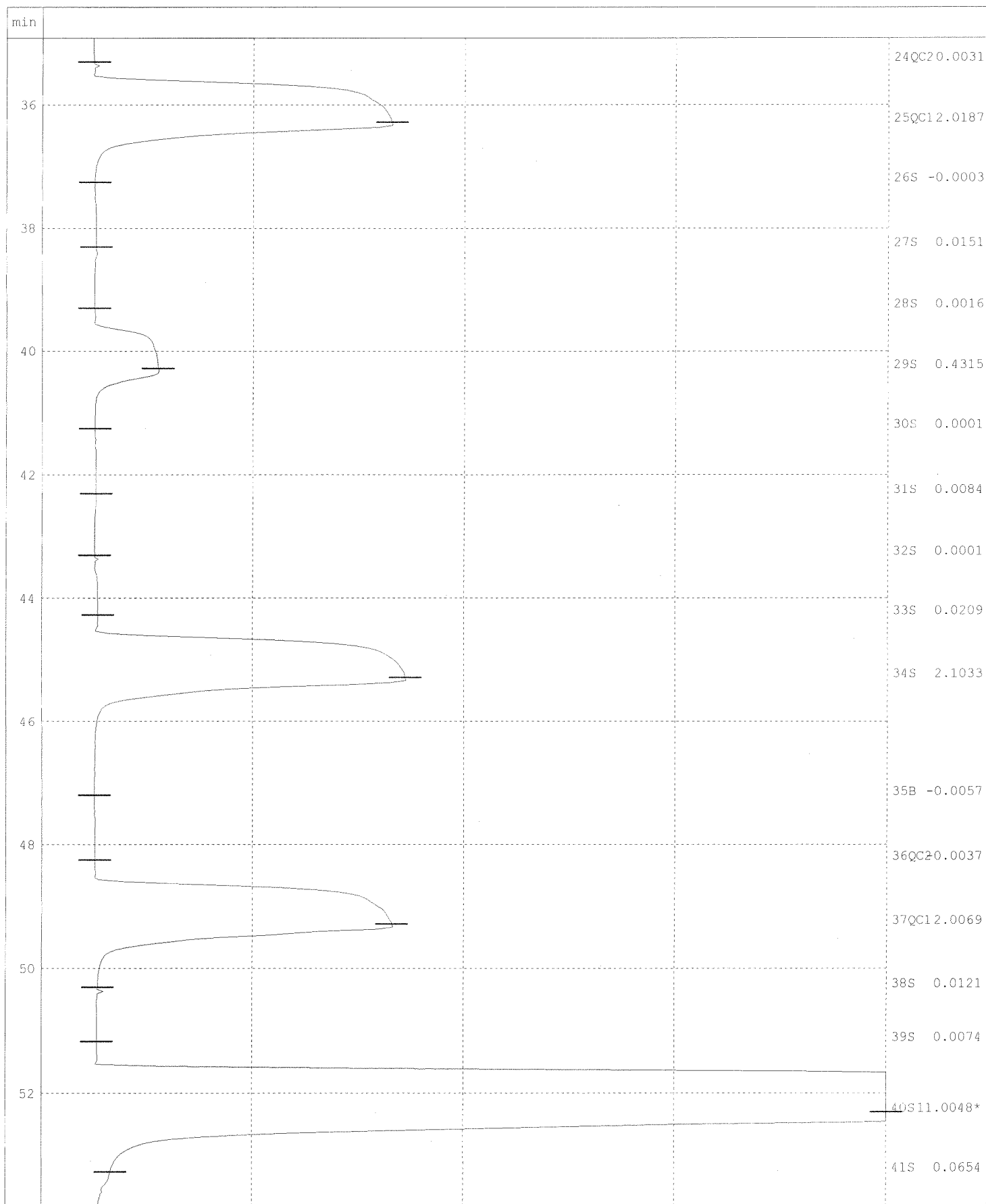
Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



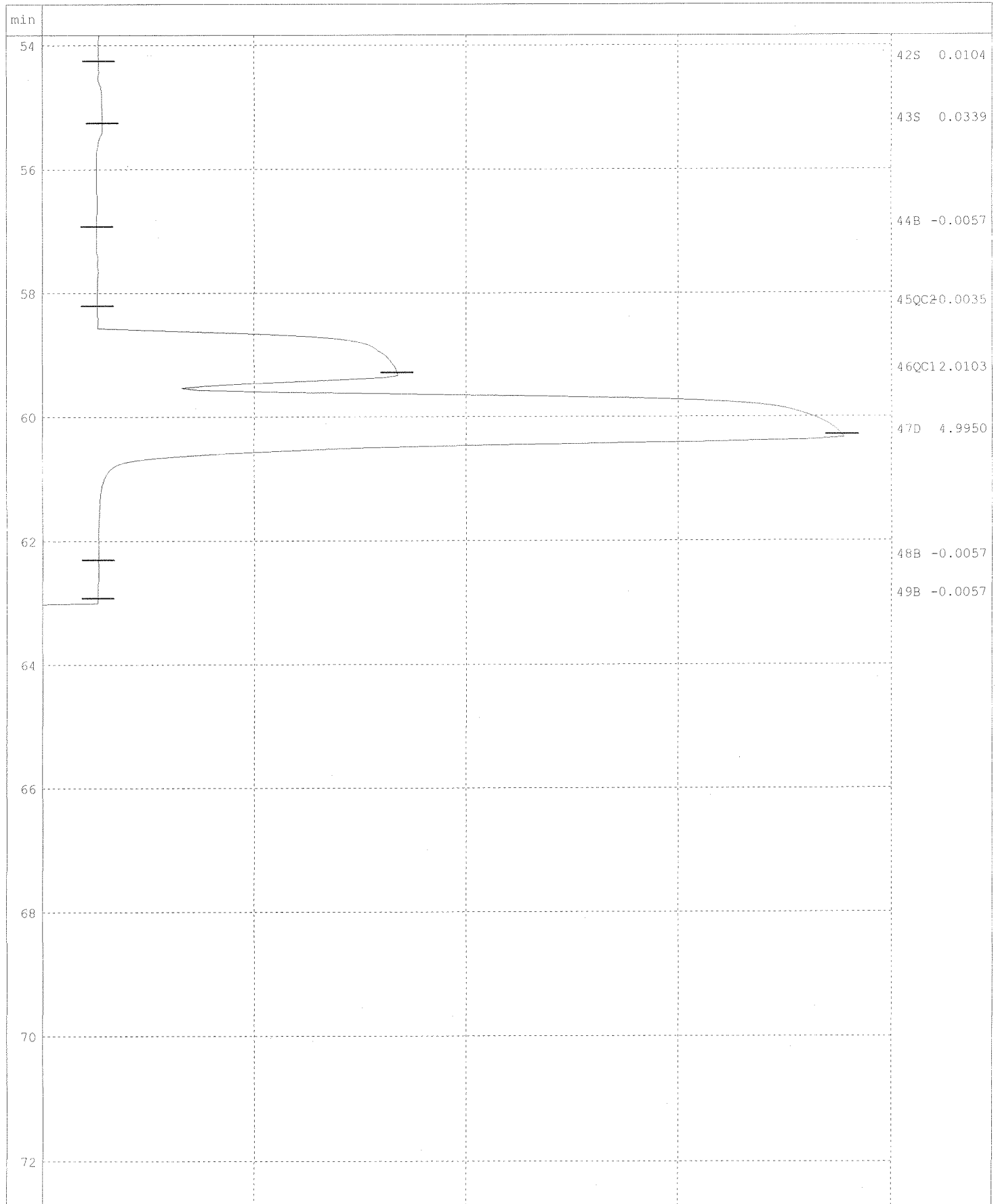
Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Original  
 Work Request # (K10795)  
 Tier: (11)  
 Date Analyzed: 09/30/10  
 Analyst: Huang  
 Analysis: NO<sub>2</sub> - 353.2 218887

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes/no/NA
- 2. Holding times met for all analyses and for all samples?  yes/no/NA
- 3. Are calculations correct?  yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
- 5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
- 6. Are all service requests that apply attached?  yes/no/NA
- 7. Are all samples labelled correctly?  yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
- 9. Are detection limits and units reported correctly?  yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
- 11. Is the unused space on the benchsheet crossed out?  yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 10/10/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01


Analyst: THANGANU

Analysis Lot: 218887

Method/Testcode: 353.2/NO2

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
010795-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.005	0.050			9/30/10 13:23	N	III
010795-002	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.005	0.050			9/30/10 13:23	N	III
010795-003	Nitrite as Nitrogen	N/A		Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.005	0.050			9/30/10 13:23	N	III
21010575-01	Nitrite as Nitrogen	MS	K1010795-001	Water	2.02 mg/L	5 mL	2.02 mg/L	1	0.005	0.050	101		9/30/10 13:23	N	III
21010575-02	Nitrite as Nitrogen	DMS	K1010795-001	Water	2.12 mg/L	5 mL	2.12 mg/L	1	0.005	0.050	106	5	9/30/10 13:23	N	III
21010575-03	Nitrite as Nitrogen	DUP	K1010795-001	Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.005	0.050		NC	9/30/10 13:23	N	III
21010575-04	Nitrite as Nitrogen	MB		Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.005	0.050			9/30/10 13:23	N	III
21010575-05	Nitrite as Nitrogen	LCS		Water	3.99 mg/L	5 mL	3.99 mg/L	1	0.005	0.050	100		9/30/10 13:23	N	III
21010575-06	Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			9/30/10 13:23	N	III
21010575-07	Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			9/30/10 13:23	N	III
21010575-08	Nitrite as Nitrogen	CCV		Water	2.10 mg/L	5 mL	2.10 mg/L	1					9/30/10 13:23	N	III
21010575-09	Nitrite as Nitrogen	CCV		Water	2.04 mg/L	102% 5 mL	2.04 mg/L	1					9/30/10 13:23	N	III

*LCS ID#: AN/11 - 31-B TV. = 4.00*  
*Curve, CCV ID#: B+LNO<sub>3</sub>/1 - G9-M TV. = 2.00*  
*Spiked ID#: B+LNO<sub>3</sub>/1 - G7-N TV. = 2.00*

09/30/10  


indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**BRAN+LUEBBE**

Post-run report

Name of Run : 100930B  
 Date of Report : 9/30/2010  
 Date of Run : 9/30/2010  
 Operator :  
 Comment :

Name of Analysis : Nitrite.ANL  
 System No. : 1  
 Type of System : AA3  
 Start/Stop time : 13:23 - 14:00

Channel : 2  
 Method : Method 2  
 Unit :  
 Calibr. Fit : Linear  
 Corr. Coeff. : 0.9999  
 Base : -18946  
 Gain : 6  
 Sensitivity : 1.2996  
 Sample Limit 1 :  
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0115
1	1	P Primer	4.9599
2	1	D Drift	4.9712
3	1	C 5.00	4.9844
4	2	C 2.00	2.0393
5	3	C 0.50	0.4963
6	4	C 0.05	0.0386
7	5	C 0	-0.0085
8	1	H1 High	5.0043
9	0	L1 Low	0.0133
10	0	L1 Low	-0.0062
11	5	QC2 CCB1	-0.0085
12	2	QC1 CCV1	2.1008
13	10	QC3 LCS1	3.9932
14	0	N Null	0.0059N
15	5	QC2 MB1	-0.0069
16	11	S k1010795-001	-0.0028
17	12	S k1010795-001d	-0.0043
18	13	S k1010795-001ms	2.0186
19	14	S k1010795-001msd	2.1152
20	15	S k1010795-002	0.0008
21	16	S k1010795-003	-0.0058
22	0	B Baseline	-0.0142
23	5	QC2 CCB2	-0.0086
24	2	QC1 CCV2	2.0443
25	1	D Drift	4.9743
26	0	B Baseline	-0.0105

09/30/10  
 [Signature]



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QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

---

CORRECTIONS

Channel	:	2
Baseline	:	No
Drift	:	No
Carry over	:	No
%:		0.0

---

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

09/30/10  
*Fraser*

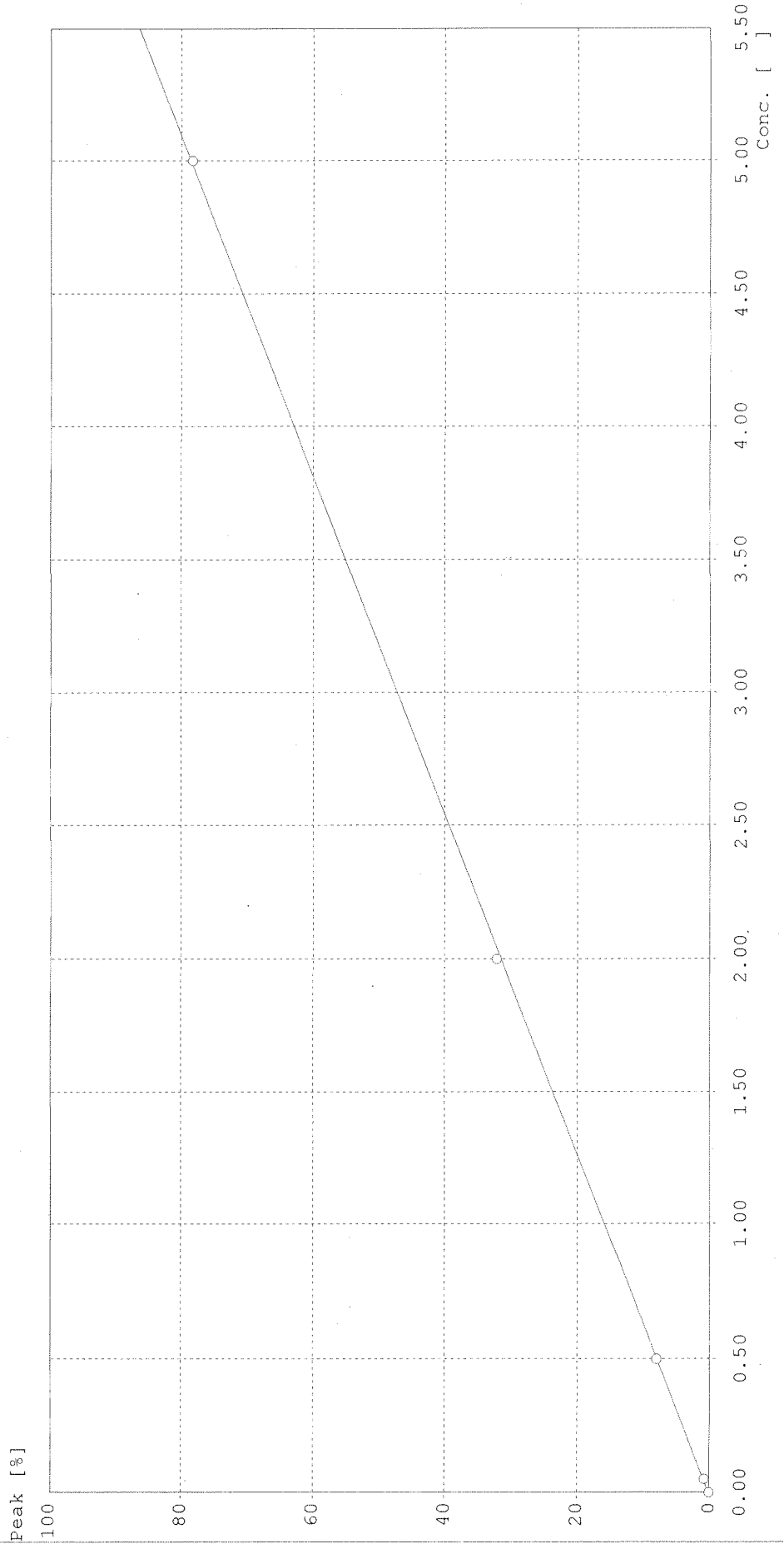
# BRAN+LUEBBE

Calibration Curve

Name of run : 100930B.run  
Comment :

Name of analysis : Nitrite.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.2200E-001      b=9.7289E-005  
Corr. coeff. : 0.9999



09/30/10  
*[Signature]*

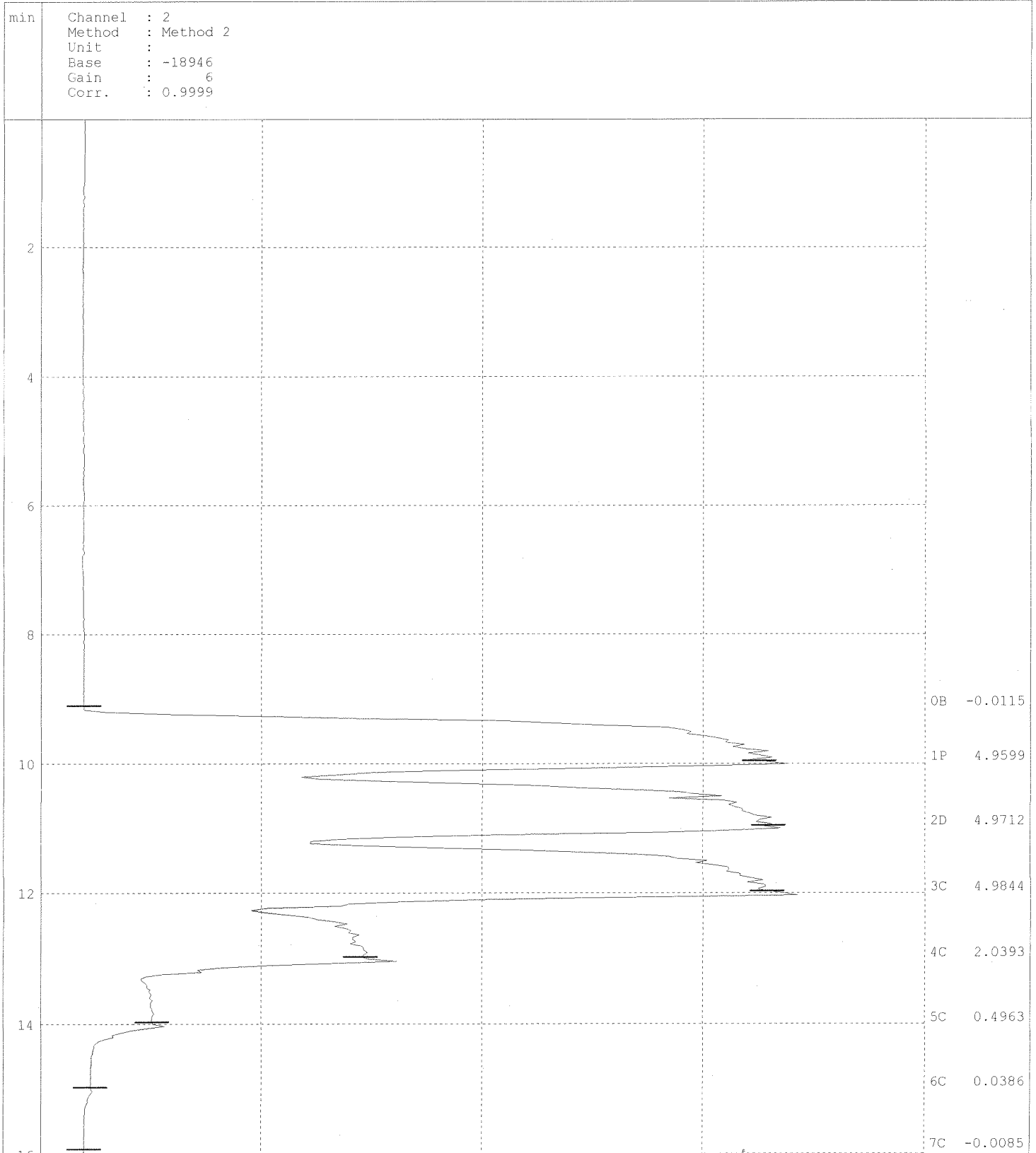
# BRAN+LUEBBE

Post-run chart

Name of run :100930B.RUN

Name of analysis :Nitrite.ANL

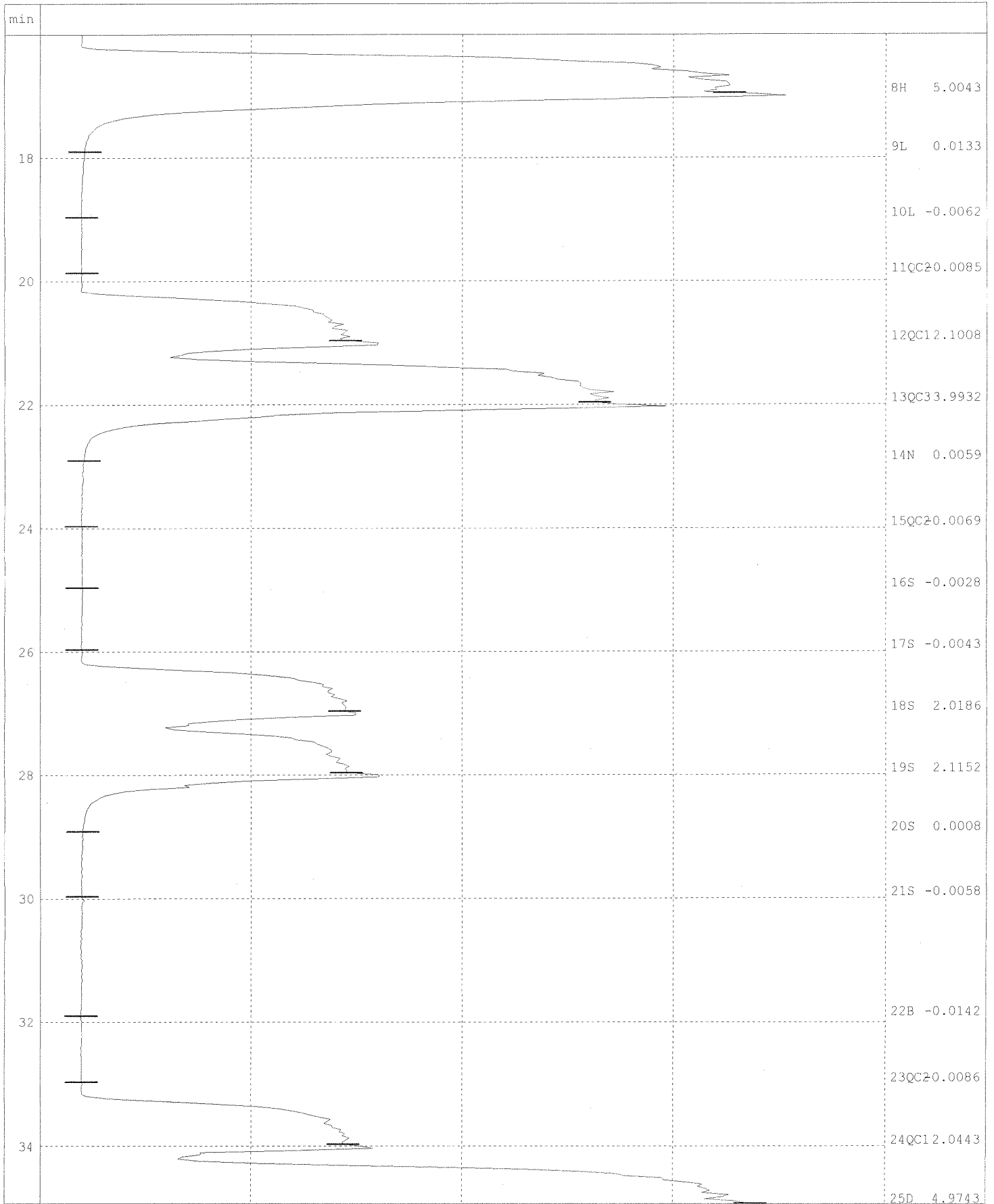
Comment :



09/30/10  
Hull

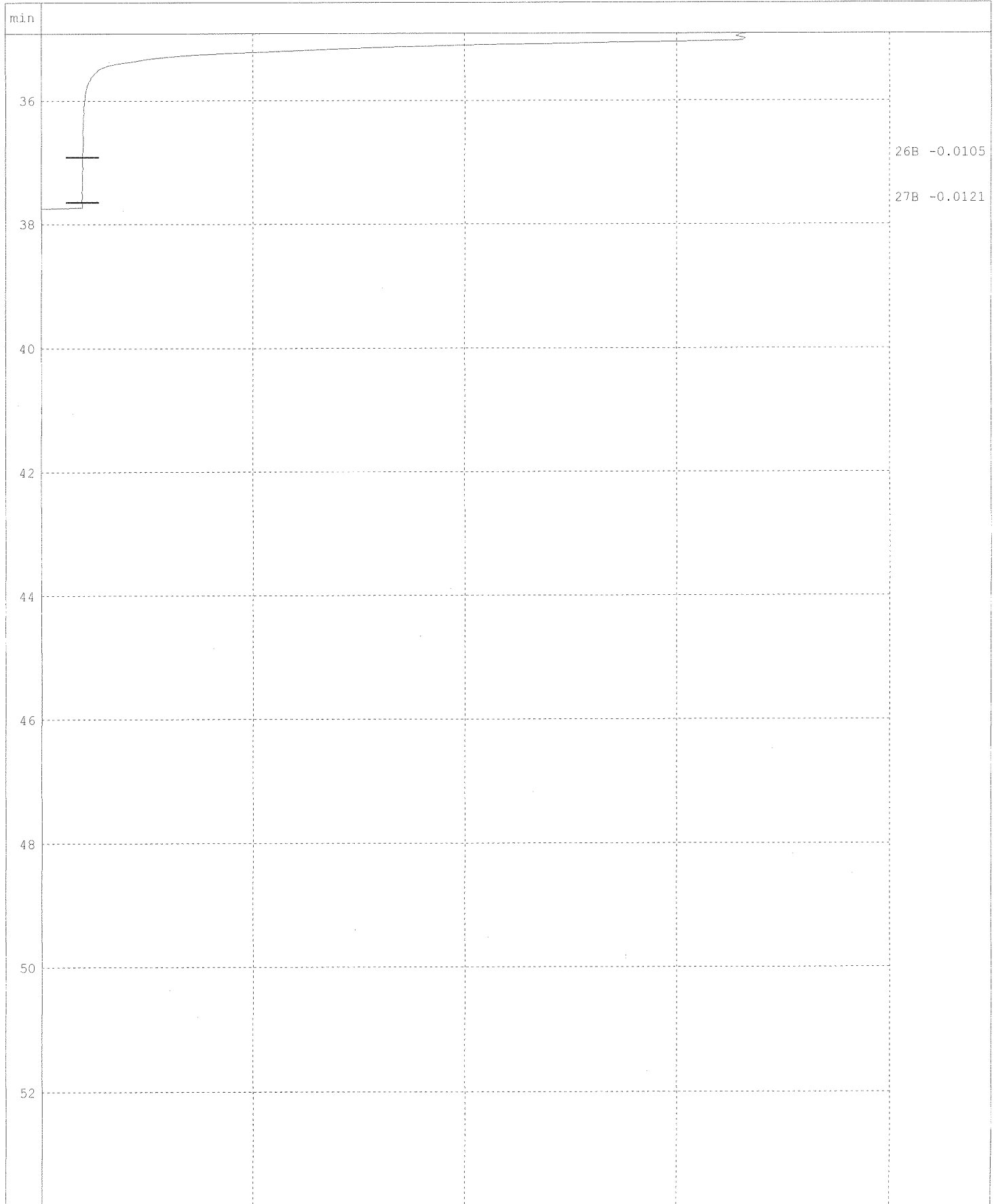
Name of run :100930B.RUN  
Comment :

Name of analysis :Nitrite.ANL



Name of run :100930B.RUN  
Comment :

Name of analysis :Nitrite.ANL



Work Request # <sup>Original</sup> (K10735) K10759 K10785 K10795 K10850 K10899  
 Tier: I II III III III III  
 Date Analyzed: 10/06/10  
 Analyst: Houng  
 Analysis: NO<sub>2</sub>/NO<sub>3</sub> - N - 353.2 219644

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? (yes/no/NA)
2. Holding times met for all analyses and for all samples? (yes/no/NA)
3. Are calculations correct? (yes/no/NA)
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? (yes/no/NA)
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? (yes/no/NA)
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? (yes/no/NA)
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? (yes/no/NA)
  - d. Are results for methods blanks all ND? (yes/no/NA)
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) (yes/no/NA)
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? (yes/no/NA)
7. Are all samples labelled correctly? (yes/no/NA)
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) (yes/no/NA)
9. Are detection limits and units reported correctly? (yes/no/NA)
10. Are proper Analysis/Extraction stickers included on report? (yes/no/NA)
11. Is the unused space on the benchsheet crossed out? (yes/no/NA)
12. Was analysis turned in by the due date? (n-2) (If not record SR#) (yes/no/NA)

**COMMENTS:**

Final Approved by:  Date: 10/7/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01      Analyst: THANGANU      Analysis Lot: 219644      Method/Testcode: 353.2/NO2 NO3 T

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC <sup>2</sup>	Tier
10735-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.09 mg/L	5 mL	0.087 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10735-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.083 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10735-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.078 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10735-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10759-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.64 mg/L	5 mL	1.64 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	V
10759-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
10759-004	Nitrate+Nitrite as Nitrogen	N/A		Water	3.25 mg/L	5 mL	3.25 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
10759-006	Nitrate+Nitrite as Nitrogen	N/A		Water	1.65 mg/L	5 mL	1.65 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	V
10759-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.032 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
10759-008	Nitrate+Nitrite as Nitrogen	N/A		Water	3.71 mg/L	5 mL	3.71 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
10785-001	Nitrate+Nitrite as Nitrogen	N/A		Water	2.23 mg/L	5 mL	1.12 mg/L	50	0.5	2.5			10/6/10 11:12:00	N	II
10785-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.54 mg/L	5 mL	0.536 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.93 mg/L	5 mL	0.929 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.20 mg/L	5 mL	0.198 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-005	Nitrate+Nitrite as Nitrogen	N/A		Water	0.17 mg/L	5 mL	0.170 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-006	Nitrate+Nitrite as Nitrogen	N/A		Water	0.21 mg/L	5 mL	0.206 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.29 mg/L	5 mL	0.288 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-008	Nitrate+Nitrite as Nitrogen	N/A		Water	0.38 mg/L	5 mL	0.379 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
10785-009	Nitrate+Nitrite as Nitrogen	N/A		Water	2.21 mg/L	5 mL	1.10 mg/L	50	0.5	2.5			10/6/10 11:12:00	N	II
10795-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.99 mg/L	5 mL	4.95 mg/L	5	0.05	0.25			10/6/10 11:12:00	N	III
10795-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.44 mg/L	5 mL	14.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
10795-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.051 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
10850-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.79 mg/L	5 mL	8.97 mg/L	5	0.05	0.25			10/6/10 11:12:00	N	III
10850-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.77 mg/L	5 mL	17.7 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
10850-003	Nitrate+Nitrite as Nitrogen	N/A		Water	4.20 mg/L	5 mL	42.0 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
10850-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.045 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
10899-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.26 mg/L	5 mL	31.4 mg/L	25	0.3	1.3			10/6/10 11:12:00	N	III
10899-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.043 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
1010818-01	Nitrate+Nitrite as Nitrogen	MS	K1010735-001	Water	2.01 mg/L	5 mL	2.01 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
1010818-02	Nitrate+Nitrite as Nitrogen	DMS	K1010735-001	Water	2.03 mg/L	5 mL	2.03 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
1010818-03	Nitrate+Nitrite as Nitrogen	DUP	K1010735-001	Water	0.09 mg/L	5 mL	0.095 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
1010818-04	Nitrate+Nitrite as Nitrogen	MS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50		8	10/6/10 11:12:00	N	III
1010818-05	Nitrate+Nitrite as Nitrogen	DMS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50		<1	10/6/10 11:12:00	N	III
1010818-06	Nitrate+Nitrite as Nitrogen	DUP	K1010850-001	Water	1.79 mg/L	5 mL	8.94 mg/L	5	0.05	0.25		<1	10/6/10 11:12:00	N	III
1010818-07	Nitrate+Nitrite as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
1010818-08	Nitrate+Nitrite as Nitrogen	MB		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
1010818-09	Nitrate+Nitrite as Nitrogen	LCS		Water	1.40 mg/L	5 mL	14.0 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	II
1010818-10	Nitrate+Nitrite as Nitrogen	LCS		Water	1.41 mg/L	5 mL	14.1 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	II
1010818-11	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/6/10 11:12:00	N	II

Final Result is not yet adjusted for Solids because it has not yet been determined.

*10/6/10*  
*Thangany*

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 219644

Method/Testcode: 353.2/NO2 NO3 T

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1010818-12	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
1010818-13	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
1010818-14	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
1010818-15	Nitrate+Nitrite as Nitrogen	CCB		Water	0.05 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
1010818-16	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
1010818-17	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
1010818-18	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
1010818-19	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
1010818-20	Nitrate+Nitrite as Nitrogen	CCV		Water	1.91 mg/L	5 mL	1.91 mg/L	1	96%				10/6/10 11:12:00	N II
1010818-21	Nitrate+Nitrite as Nitrogen	CCV		Water	1.93 mg/L	5 mL	1.93 mg/L	1	97%				10/6/10 11:12:00	N II
1010818-22	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II

Spike = 0.1 mL x 100 ppw / 5 mL = 2.00 ppw (K10735)  
 Spike = 0.1 mL x 100 ppw / 0.5 mL = 20.0 ppw (K10850)

LOS ID#: B+LNH<sub>3</sub>/ - 35-A TV = 14.8  
 Spike ID#: B+LNH<sub>3</sub>/ - 97-M TV = 2.00 / 20.0  
 @UVE, CEV ID#: B+LNH<sub>3</sub>/ - 86-P TV = 0.50  
 I CV ID#: B+LNH<sub>3</sub>/ - 69-N TV = 2.00  
 MMS MS = 2.00

10/06/10  




K10735, K10759, K10785, K10795, K10850, K10899

BRAN+LUEBBE AACE 6.02

Post-run Report

# BRAN+LUEBBE

Post-run report

Name of Run : 101006B  
Date of Report : 10/6/2010  
Date of Run : 10/6/2010  
Operator :  
Comment :

Name of Analysis : NO2+NO3.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 11:12 - 12:43

Channel : 2  
Method : Method 2  
Unit : mg/L  
Calibr. Fit : Linear  
Corr. Coeff. : 0.9998  
Base : -19118  
Gain : 6  
Sensitivity : 1.5544  
Sample Limit 1 :  
Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0192
1	1	P primer	5.0069
2	1	D Drift	5.0018
3	1	C 5.00	5.0242
4	2	C 2.00	1.9379
5	3	C 0.50	0.4927
6	4	C 0.05	0.0710
7	5	C 0	0.0241
8	1	H1 High	5.0223
9	0	L1 Low	0.0249
10	0	L1 Low	0.0250
11	9	QC3 ICV	1.9210
12	5	QC2 ICB	0.0249
13	5	QC2 CCB1	0.0229
14	2	QC1 CCV1	1.9220
15	10	QC4 LCS1*10	1.4014
16	11	S MB MS	1.9396
17	0	N Null	0.0574N
18	5	QC2 MB1	0.0244
19	12	S k1010735-001	0.0873
20	13	S k1010735-001d	0.0948
21	14	S k1010735-001ms	2.0112
22	15	S k1010735-001msd	2.0349
23	16	S k1010735-002	0.0830
24	0	B Baseline	0.0192
25	5	QC2 CCB2	0.0231
26	2	QC1 CCV2	1.9190

10/7/10  
10/06/10  
Haugen

BRAN+LUEBBE AACE 6.02

27	17	S	k1010735-003	0.0782
28	18	S	k1010735-004	0.0270
29	19	S	k1010759-002*10	1.6355
30	20	S	k1010759-003	0.0285
31	21	S	k1010759-004	3.2544
32	22	S	k1010759-006*10	1.6453
33	23	S	k1010759-007	0.0321
34	24	S	k1010759-008	3.7125
35	25	S	k1010785-001*50	2.2323
36	0	B	Baseline	0.0192
37	5	QC2	CCB3	0.0315
38	2	QC1	CCV3	1.9176
39	26	S	k1010785-002	0.5363
40	27	S	k1010785-003	0.9294
41	28	S	k1010785-004	0.1980
42	29	S	k1010785-005	0.1696
43	30	S	k1010785-006	0.2058
44	31	S	k1010785-007	0.2877
45	32	S	k1010785-008	0.3793
46	33	S	k1010785-009*50	2.2092
47	34	S	k1010795-001*5 diss	0.9899
48	0	B	Baseline	0.0192
49	5	QC2	CCB4	0.0250
50	2	QC1	CCV4	1.9081
51	10	QC4	LCS2*10	1.4055
52	0	N	Null	0.0271N
53	5	QC2	MB2	0.0293
54	35	S	k1010795-002*10 dis	1.4377
55	36	S	k1010795-003 diss.	0.0506
56	37	S	k1010850-001*5diss.	1.7938
57	38	S	k1010850-001d*5diss	1.7874
58	39	S	k1010850-001ms*10 <i>diss</i>	2.8394
59	40	S	k1010850-001msd*10 <i>diss.</i>	2.8425
60	0	B	Baseline	0.0192
61	5	QC2	CCB5	0.0463
62	2	QC1	CCV5	1.9255
63	41	S	k1010850-002*10diss	1.7721
64	42	S	k1010850-003*10 dis	4.1980
65	43	S	k1010850-004 diss.	0.0452
66	44	S	k1010899-001*25diss	1.2559
67	45	S	k1010899-002 diss.	0.0427
68	0	B	Baseline	0.0192
69	5	QC2	CCB6	0.0342
70	2	QC1	CCV6	1.9237
71	1	D	Drift	5.0018
72	0	B	Baseline	0.0192
73	0	B	FinalBase	0.0192

QC Limits

Channel : 2  
 QC 1 Unused

*10/06/10*  
*Frantz*  
*on 10/7/10*

QC 2	Unused
QC 3	Unused
QC 4	Unused
QC 5	Unused
QC 6	Unused
QC 7	Unused
QC 8	Unused
QC 9	Unused
QC10	Unused

---

## CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

---

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/06/10  
Haugen  
21/10/7/10

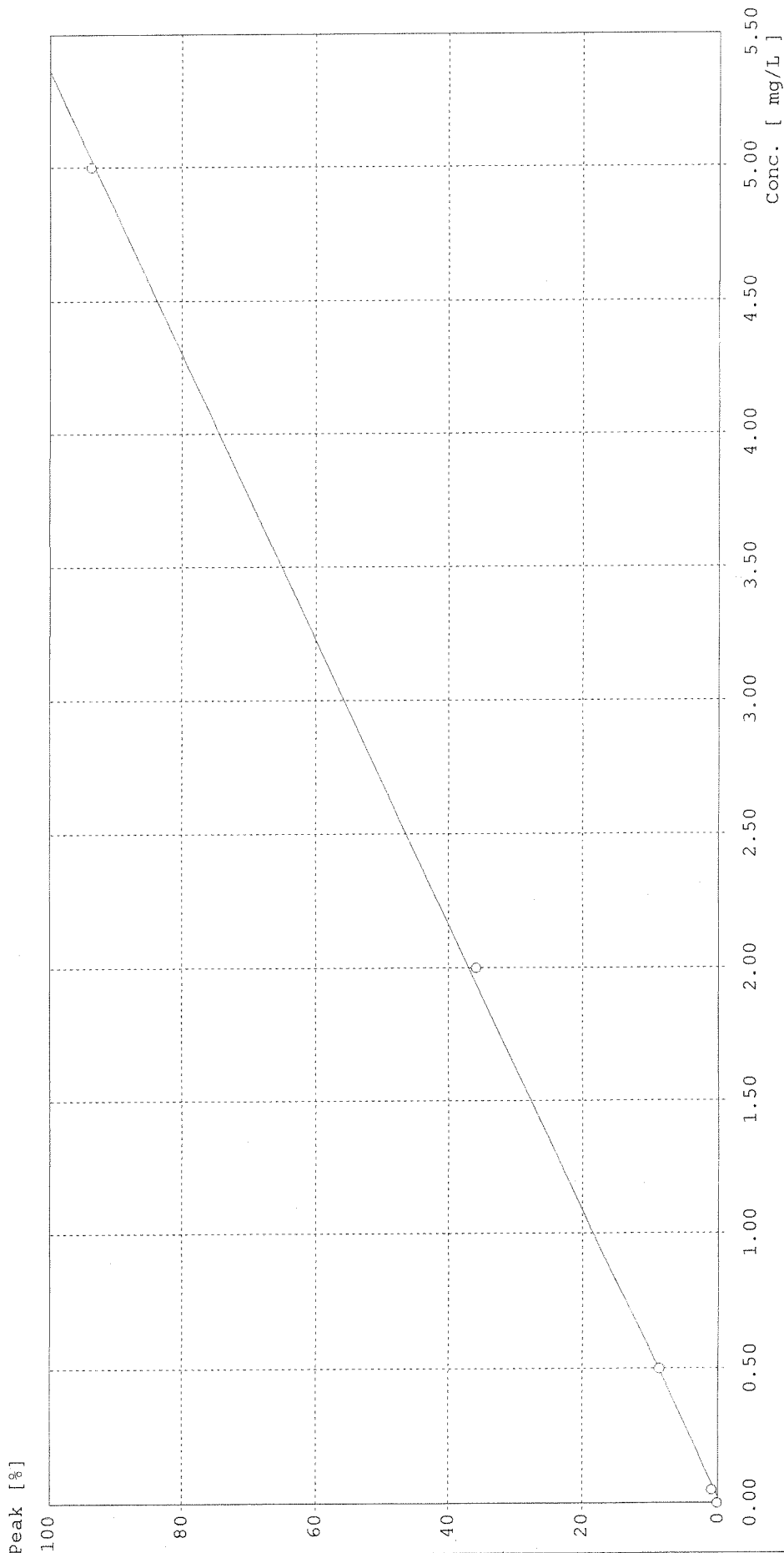
# BRAN+LUEBBE

Calibration Curve

Name of run : 101006B.run  
Comment :

Name of analysis : NO2+NO3.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.3814E-001      b=8.1599E-005  
Corr. coeff. : 0.9998



10/06/10  
Huygens

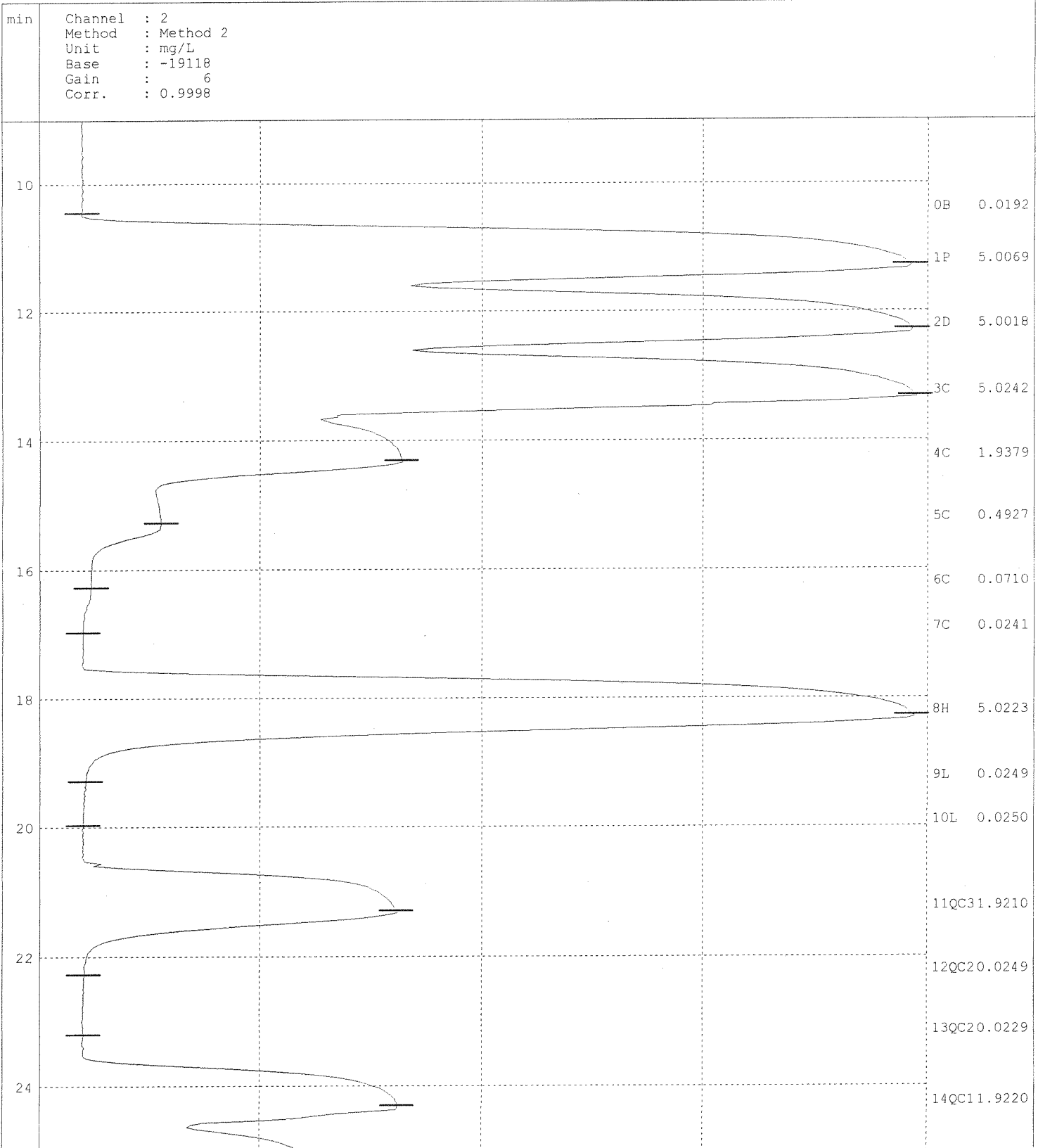
# BRAN+LUEBBE

Post-run chart

Name of run :101006B.RUN

Name of analysis :NO2+NO3.ANL

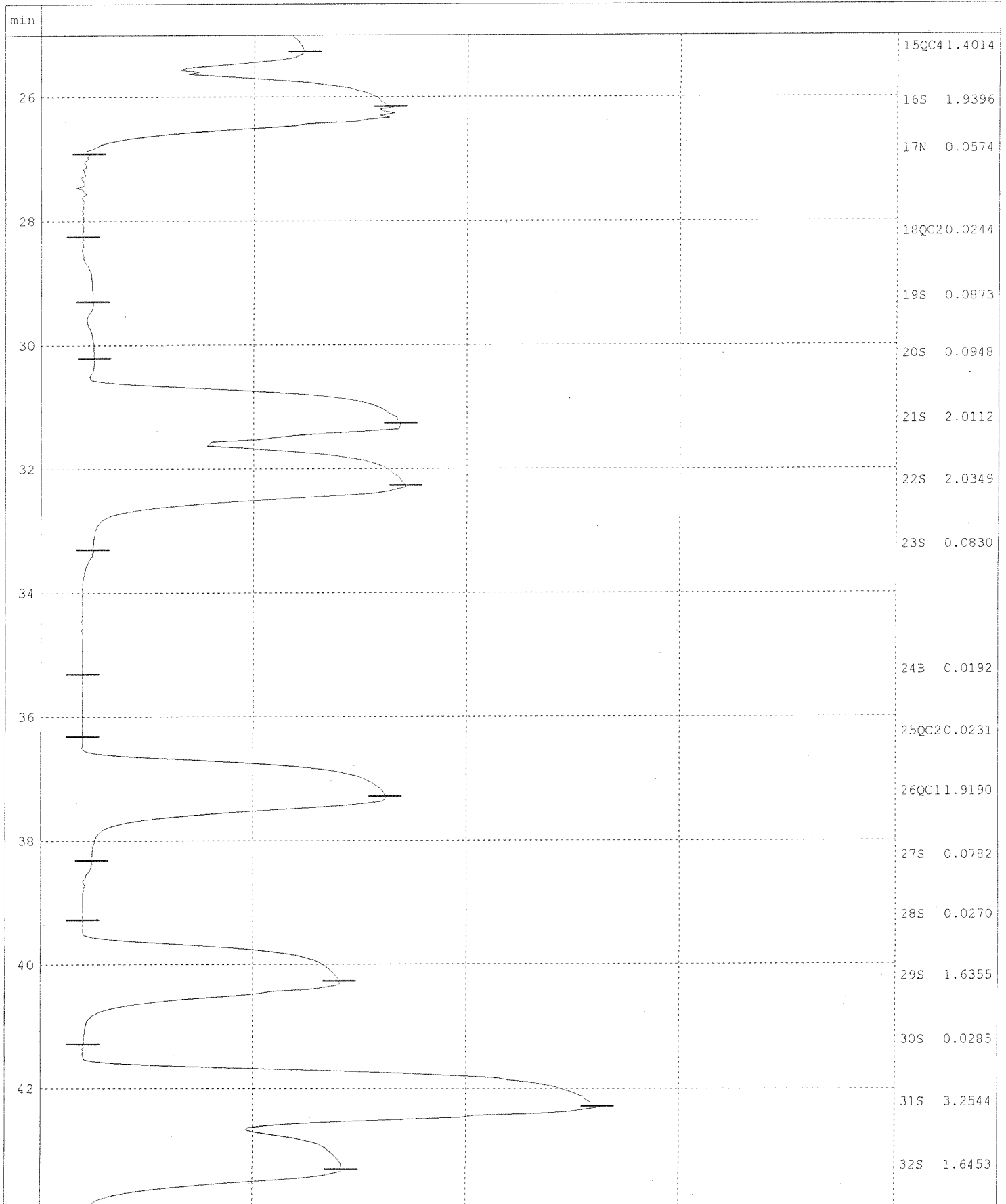
Comment :



10/06/10  
Thuy

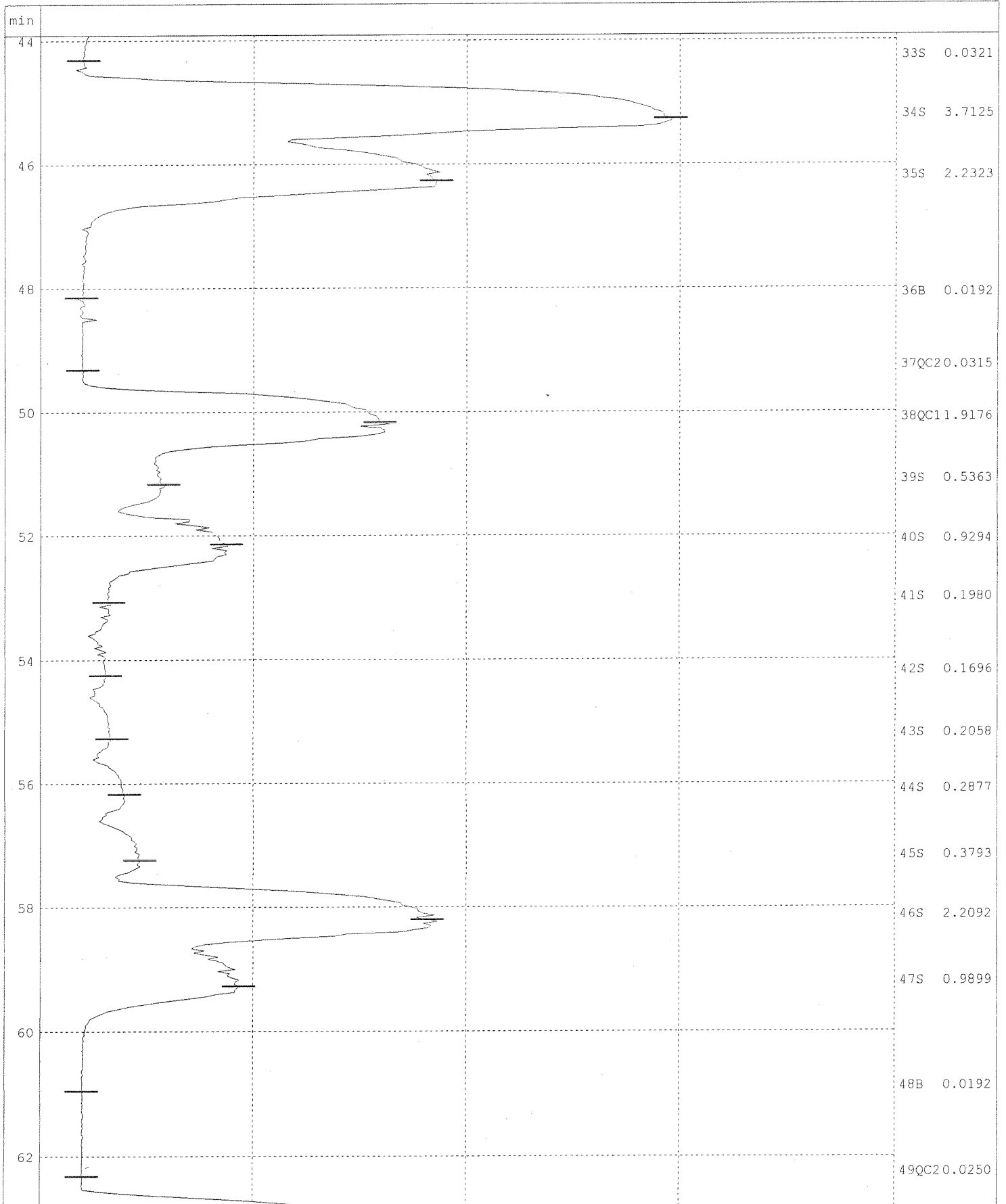
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Name of run :101006B.RUN  
Comment :

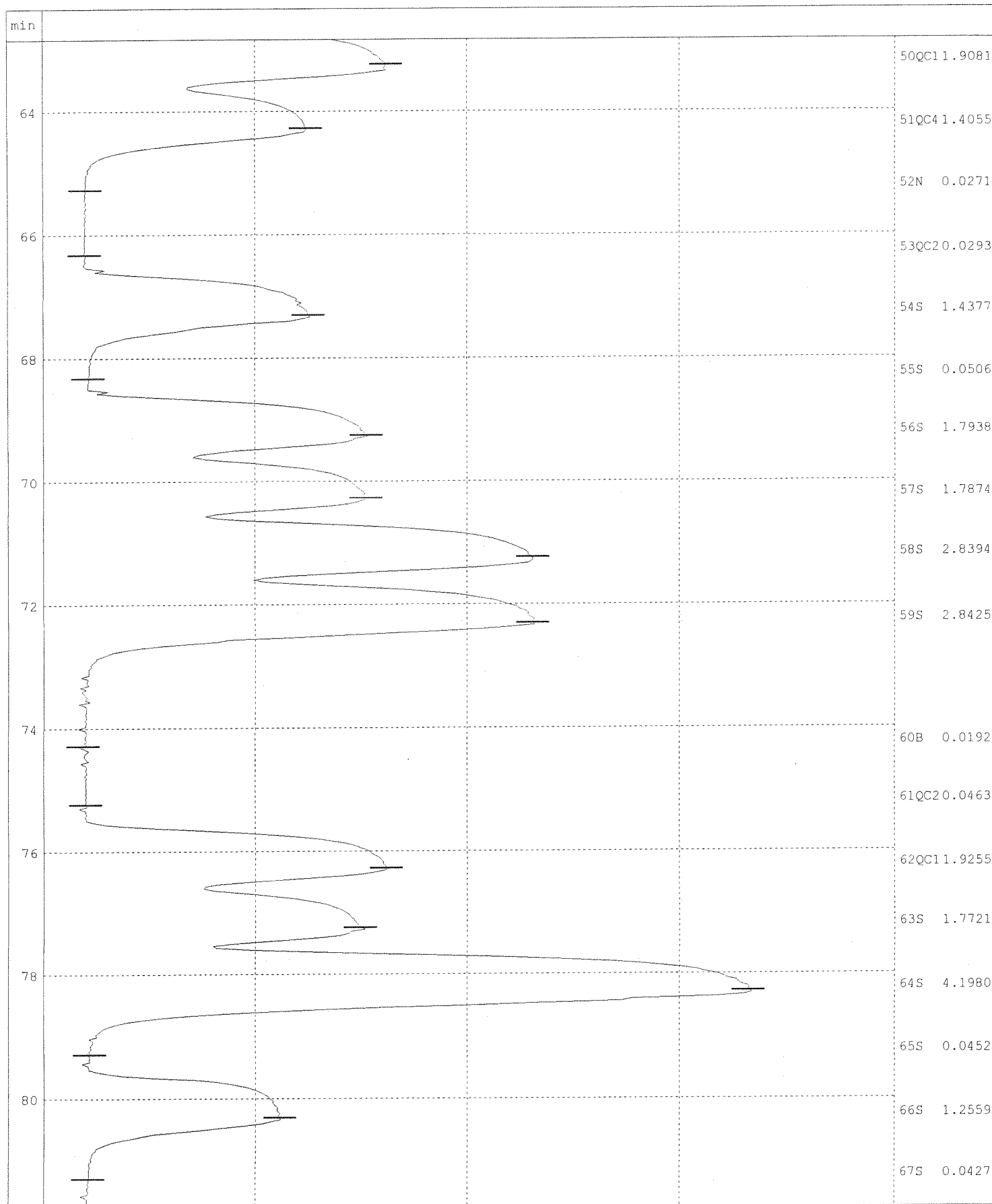
Name of analysis :NO2+NO3.ANL



Name of run :101006B.RUN

Name of analysis :NO2+NO3.ANL

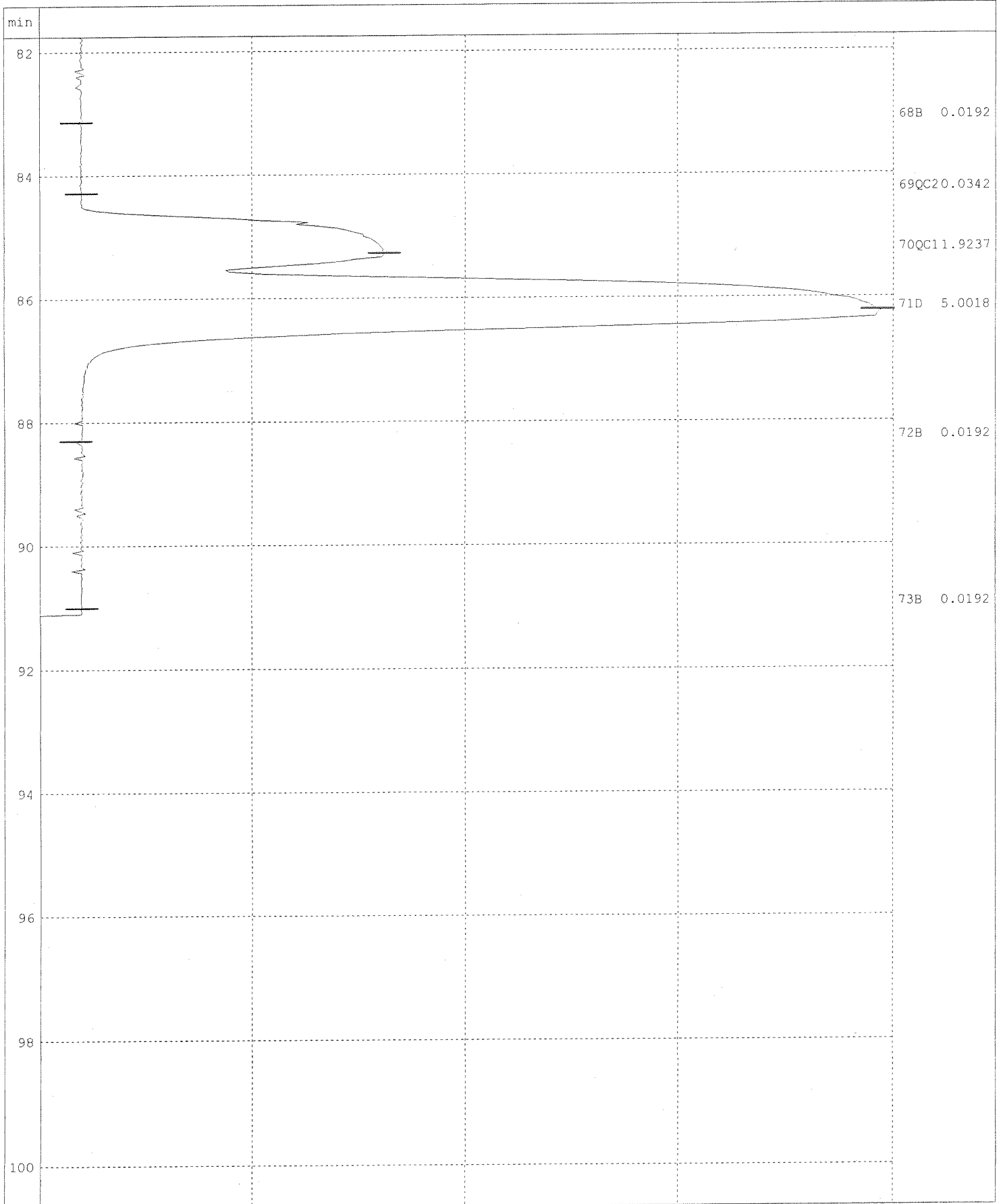
Comment :





Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



219462

Original  
 Work Request # (727) 735 795, 788, 850, 790, 675  
 Tier: V II III I II II II  
 Date Analyzed: 10/13/10  
 Analyst: CV  
 Analysis: Alk on hand

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: AA Date: 10/12/10 DQREPORT

Analyte: Alkalinity  
 Method: 310.1 / SM20 2320 B

Regular Level X  
 High Level

Analyst: cv  
 Pipette: K-ph-01

Date: 10/5/10  
 Time: 8:00

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity  
 T = Total Alkalinity  
 Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3  
 Alkalinity, mg CaCO3 / L =  $(A_{(mL \text{ acid used})} \times N_{(HCl)} \times 50,000) / \text{mL sample}$   
 Alkalinity Low level, mg CaCO3 / L =  $((2A_{(mL \text{ acid used to pH4.5})} - B_{(mL \text{ acid used to pH4.2})}) \times N_{(HCl)} \times 50,000) / \text{mL sample}$

pH meter cal:

4.0	4
7.0	7.00
10.0	10

Buffer Lot #:

Cond-175 M  
 Cond-1-70  
 Cond-1-77-M

Date

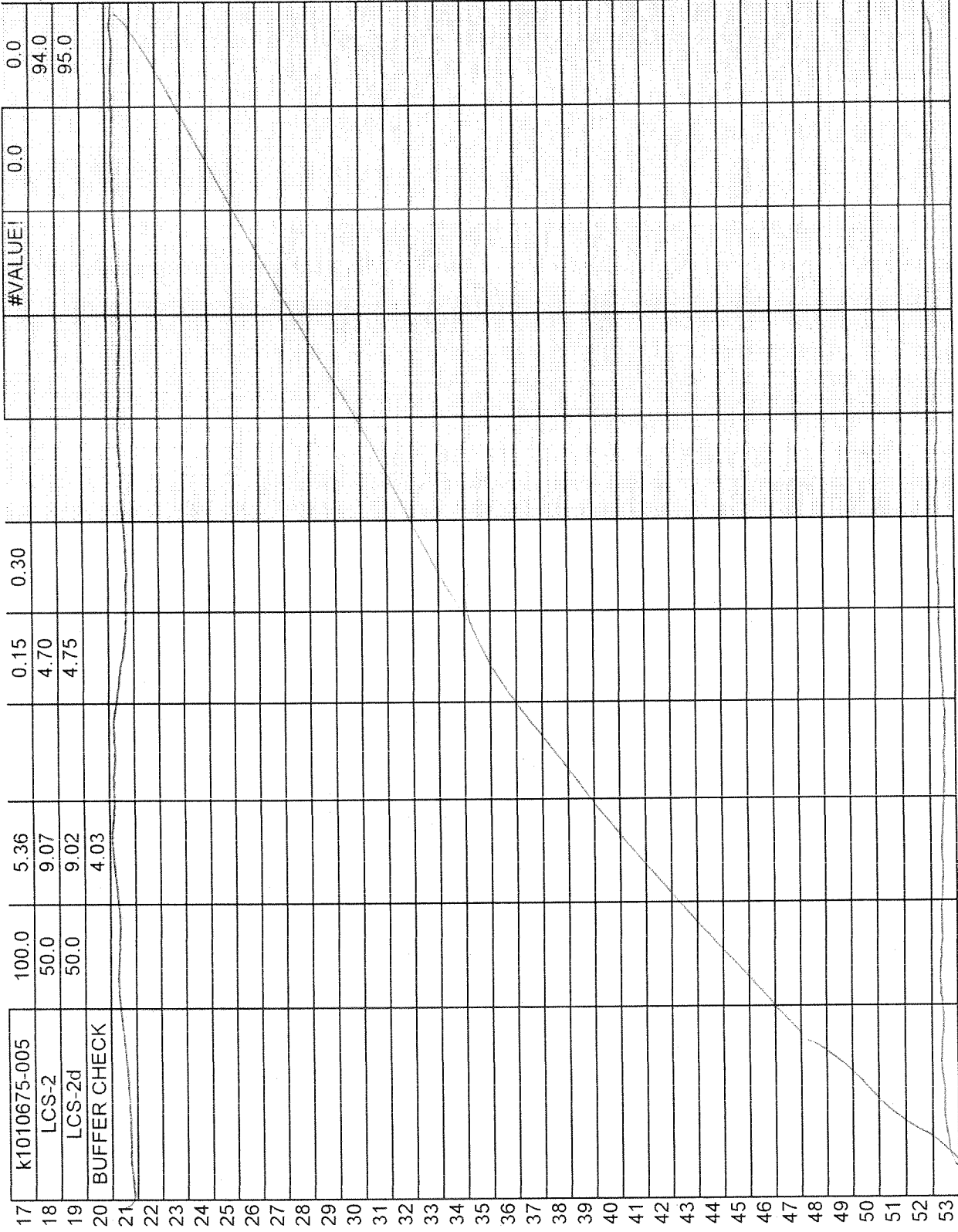
Reagents: concentration  
 HCl: 0.020 N  
 LCS TV = 97.4 mg/L  
 %REC = 104.47

Log #  
 10023589  
 S164-698

Service Request#	Sample Vol (mL)	pH Initial	Vol to pH 8.3	Vol to pH 4.5	Vol to pH 4.2	Phen. Alk. mg/L	OH- Alk. mg/L	Carb Alk. mg/L	Bicarb Alk. mg/L	Total Alk. mg/L
1 MB-1	100.0	6.09		0.20	0.38				0.2	0.2
2 LCS-1	50.0	9.12		4.70					94.0	94.0
3 K1010727-001	100.0	7.07		1.50	1.61				14.0	14.0
4 K1010727-002	50.0	7.50		1.20					24.0	24.0
5 K1010727-003	100.0	7.39		1.90	2.25				19.0	19.0
6 K1010727-003d	100.0	7.41		1.95	2.25				16.5	16.5
7 K1010727-004	50.0	7.51		1.10					22.0	22.0
8 K1010735-004	100.0	6.19		0.30	0.50				1.0	1.0
9 K1010795-003	100.0	5.95		0.28	0.40				1.6	1.6
10 K1010850-004	100.0	5.88		0.15	0.30				0.0	0.0
11 K1010788-002	100.0	5.40		0.40	0.50			#VALUE!	3.0	3.0
12 K1010788-003	100.0	5.67		0.95	1.05			#VALUE!	8.5	8.5
13 K1010788-004	100.0	5.65		1.20	1.50			#VALUE!	9.0	9.0
14 BUFFER CHECK		4.03								
15 MB-2	100.0	5.55		0.22	0.40				0.4	0.4
16 K1010790-009	100.0	5.40		0.20	0.38				0.4	0.4
16 K1010790-010	100.0	5.38		0.19	0.40				0.0	0.0

X = 17.8  
 RPD = 1.4

10-16-1990 @ 7% fec  
 41.8% fec  
 6-7-79 - 1



# Analytical Results Summary

Instrument Name: K-pH-01      Analyst: CVECCHITTO      Analysis Lot: 219462      Method/Testcode: SM 2320 B/Alkalinity Titr

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
10675-005	Alkalinity as CaCO3, Total N/A	N/A		Water	0.00 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	II
10727-001	Alkalinity as CaCO3, Total N/A	N/A		Water	14.00 mg/L	30 mL	14.0 mg/L	I	3.0	5.0			10/5/10 08:00:00	N	V
10727-002	Alkalinity as CaCO3, Total N/A	N/A		Water	24.00 mg/L	30 mL	24.0 mg/L	I	3.0	5.0			10/5/10 08:00:00	N	V
10727-003	Alkalinity as CaCO3, Total N/A	N/A		Water	19.00 mg/L	30 mL	19.0 mg/L	I	3.0	5.0			10/5/10 08:00:00	N	V
10727-004	Alkalinity as CaCO3, Total N/A	N/A		Water	22.00 mg/L	30 mL	22.0 mg/L	I	3.0	5.0			10/5/10 08:00:00	N	V
10735-004	Alkalinity as CaCO3, Total N/A	N/A		Water	1.00 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	II
10735-004	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
10788-002	Alkalinity as CaCO3, Total N/A	N/A		Water	3.00 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	I
10788-002	Bicarbonate as CaCO3 N/A	N/A		Water	3.00 mg/L	30 mL	3.0 mg/L	I	3.0	3.0			10/5/10 08:00:00	N	I
10788-002	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	I
10788-003	Alkalinity as CaCO3, Total N/A	N/A		Water	8.50 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	I
10788-003	Bicarbonate as CaCO3 N/A	N/A		Water	8.50 mg/L	30 mL	8.5 mg/L	I	3.0	3.0			10/5/10 08:00:00	N	I
10788-003	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	I
10788-004	Alkalinity as CaCO3, Total N/A	N/A		Water	9.00 mg/L	30 mL	9.0 mg/L	I	3.0	9.0			10/5/10 08:00:00	N	I
10788-004	Bicarbonate as CaCO3 N/A	N/A		Water	9.00 mg/L	30 mL	9.0 mg/L	I	3.0	3.0			10/5/10 08:00:00	N	I
10788-004	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	I
10790-009	Bicarbonate as CaCO3 N/A	N/A		Water	0.40 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
10790-009	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
10790-010	Bicarbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
10790-010	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
10795-003	Alkalinity as CaCO3, Total N/A	N/A		Water	1.60 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	III
10795-003	Bicarbonate as CaCO3 N/A	N/A		Water	1.60 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
10795-003	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
10795-003	Hydroxide as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
10850-004	Alkalinity as CaCO3, Total N/A	N/A		Water	0.00 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	III
10850-004	Bicarbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
10850-004	Carbonate as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
10850-004	Hydroxide as CaCO3 N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	III
1010763-01	Alkalinity as CaCO3, Total LCS	LCS		Water	94.00 mg/L	30 mL	94.0 mg/L	I	3.0	9.0	97		10/5/10 08:00:00	N	II
1010763-02	Alkalinity as CaCO3, Total DLCS	DLCS		Water	95.00 mg/L	30 mL	95.0 mg/L	I	3.0	9.0	98		10/5/10 08:00:00	N	II
1010763-03	Alkalinity as CaCO3, Total MB	MB		Water	0.40 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	II
1010763-03	Bicarbonate as CaCO3 MB	MB		Water	0.40 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
1010763-03	Carbonate as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
1010763-03	Hydroxide as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	II
1010763-04	Alkalinity as CaCO3, Total DUP	DUP	K1010727-003	Water	16.50 mg/L	30 mL	16.5 mg/L	I	3.0	9.0		14	10/5/10 08:00:00	N	V
1010763-05	Alkalinity as CaCO3, Total MB	MB		Water	0.20 mg/L	30 mL	9.0 mg/L	U	3.0	9.0			10/5/10 08:00:00	N	V
1010763-05	Bicarbonate as CaCO3 MB	MB		Water	0.20 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	V
1010763-05	Carbonate as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	V
1010763-05	Hydroxide as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/5/10 08:00:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-pH-01      Analyst: CVECCHITTO      Analysis Lot: 219462      Method/Testcode: SM 2320 B/Alkalinity Titr

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC? Tier</u>
1010763-06	Alkalinity as CaCO <sub>3</sub> , Total LCS			Water	94.00 mg/L	30 mL	94.0 mg/L	1	3.0	9.0	97		10/5/10 08:00:00	N V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

2142009

Work Request # ( <sup>Original</sup> 735 ) 785 788 789 790 795  
 Tier: II II I I I III  
 Date Analyzed: 10/11/10 1-2  
 Analyst: CV  
 Analysis: Alkanaldehyde

### DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria?  
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed?  
(e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Couldn't use some of the beginning samples due to a failed method Blank.

Final Approved by:     *AK*     Date:     10/5/10    

DQREPORT

Date: 10/01/2010

RunID = Z1001100954

InstrumentID = SN=1234A

Site Name = Your Company Name Here

Analyst = ACQWE

Test Name/ID = Aik

Titrant Name/ID = HCl 0.02N ricca lot#1002358

Standard(s) Name/ID = LCS TV=97.4 ERA lot#S164-698

TestID	LIMS ID	Meth	Smpl	pH	SmpVol	SmpResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	RunID	Instr ID
Aik	MB-1	3	1		30				59.03	04839	10-01-10	10:39	ACQWE	Z1001100954	SN=123
Aik	LCS-1	3	2	9.02	30	58.452	ppm(	1.752 mL (75.2 mV)	59.03	04839	10-01-10	10:41	ACQWE	Z1001100954	SN=123
Aik	LCS-1	3	2	9.02	30	97.426	ppm(	2.920 mL (149.1 mV)	59.03	04839	10-01-10	10:41	ACQWE	Z1001100954	SN=123
Aik	K1010675-001.02	3	3	7.10	30	196.84	ppm(	5.900 mL (149.1 mV)	59.03	04839	10-01-10	10:46	ACQWE	Z1001100954	SN=123
Aik	K1010675-001.d	3	4	7.12	30	192.14	ppm(	5.759 mL (149.1 mV)	59.03	04839	10-01-10	10:55	ACQWE	Z1001100954	SN=123
Aik	K1010759-002.08	3	5	7.21	30	191.45	ppm(	5.738 mL (149.1 mV)	59.03	04839	10-01-10	11:03	ACQWE	Z1001100954	SN=123
Aik	K1010759-003.09	3	6	7.71	30	178.01	ppm(	5.335 mL (149.1 mV)	59.03	04839	10-01-10	11:11	ACQWE	Z1001100954	SN=123
Aik	K1010759-004.09	3	7	7.74	30	173.76	ppm(	5.208 mL (149.1 mV)	59.03	04839	10-01-10	11:19	ACQWE	Z1001100954	SN=123
Aik	K1010759-006.08	3	8	7.27	30	186.34	ppm(	5.585 mL (149.1 mV)	59.03	04839	10-01-10	11:27	ACQWE	Z1001100954	SN=123
Aik	K1010759-007.09	3	9	7.72	30	180.53	ppm(	5.411 mL (149.1 mV)	59.03	04839	10-01-10	11:35	ACQWE	Z1001100954	SN=123
Aik	K1010759-008.09	3	10	7.74	30	168.56	ppm(	5.052 mL (149.1 mV)	59.03	04839	10-01-10	11:42	ACQWE	Z1001100954	SN=123
Aik	K1010785-001.01	3	11	7.00	30				59.03	04839	10-01-10	11:50	ACQWE	Z1001100954	SN=123
Aik	K1010785-002.x2	3	12	6.71	30	35.628	ppm(	1.068 mL (149.1 mV)	59.03	04839	10-01-10	12:15	ACQWE	Z1001100954	SN=123
Aik	K1010785-003.01	3	13	7.41	30	100.27	ppm(	3.005 mL (149.1 mV)	59.03	04839	10-01-10	12:19	ACQWE	Z1001100954	SN=123
Aik	K1010785-004.01	3	14	7.69	30	79.785	ppm(	2.391 mL (149.1 mV)	59.03	04839	10-01-10	12:24	ACQWE	Z1001100954	SN=123
Aik	K1010785-005.01	3	15	8.00	30	109.02	ppm(	3.268 mL (149.1 mV)	59.03	04839	10-01-10	12:29	ACQWE	Z1001100954	SN=123
Aik	K1010785-006.01	3	16	7.58	30	70.758	ppm(	2.121 mL (149.1 mV)	59.03	04839	10-01-10	12:35	ACQWE	Z1001100954	SN=123
Aik	K1010785-007.01	3	17	7.82	30	101.05	ppm(	3.029 mL (149.1 mV)	59.03	04839	10-01-10	12:40	ACQWE	Z1001100954	SN=123
Aik	K1010785-008.01	3	18	7.04	30	42.133	ppm(	1.263 mL (149.1 mV)	59.03	04839	10-01-10	12:46	ACQWE	Z1001100954	SN=123
Aik	K1010735-001.04	3	19	9.04	30	94.622	ppm(	2.895 mL (75.2 mV)	59.03	04839	10-01-10	12:50	ACQWE	Z1001100954	SN=123
Aik	K1010735-002.04	3	20	7.42	30	267.78	ppm(	8.026 mL (149.1 mV)	59.03	04839	10-01-10	13:15	ACQWE	Z1001100954	SN=123
Aik	K1010735-003.04	3	21	6.74	30	613.68	ppm(	18.394 mL (149.1 mV)	59.03	04839	10-01-10	13:26	ACQWE	Z1001100954	SN=123
Aik	MB-2	3	22	7.31	30	522.82	ppm(	15.670 mL (149.1 mV)	59.03	04839	10-01-10	13:49	ACQWE	Z1001100954	SN=123
Aik	LCS-2	3	23	5.79	30	5.8975	ppm(	0.177 mL (149.1 mV)	59.03	04839	10-01-10	14:08	ACQWE	Z1001100954	SN=123
Aik	LCS-2	3	24	8.95	30	53.702	ppm(	1.610 mL (75.2 mV)	59.03	04839	10-01-10	14:11	ACQWE	Z1001100954	SN=123
Aik	K1010735-004.04	3	25	5.86	30	101.72	ppm(	3.049 mL (149.1 mV)	59.03	04839	10-01-10	14:11	ACQWE	Z1001100954	SN=123
Aik	K1010789-001.07	3	26	7.54	30	289.72	ppm(	8.684 mL (149.1 mV)	59.03	04839	10-01-10	14:17	ACQWE	Z1001100954	SN=123
Aik	K1010789-001.d	3	27	7.60	30	285.65	ppm(	8.562 mL (149.1 mV)	59.03	04839	10-01-10	14:31	ACQWE	Z1001100954	SN=123
Aik	K1010789-002.07	3	28	7.61	30	299.48	ppm(	8.976 mL (149.1 mV)	59.03	04839	10-01-10	14:43	ACQWE	Z1001100954	SN=123
Aik	K1010789-003.07	3	29	8.01	30	151.42	ppm(	4.539 mL (149.1 mV)	59.03	04839	10-01-10	14:54	ACQWE	Z1001100954	SN=123
Aik	K1010789-004.07	3	30	7.65	30	467.04	ppm(	13.939 mL (149.1 mV)	59.03	04839	10-01-10	15:01	ACQWE	Z1001100954	SN=123
Aik	K1010735-001.03	3	31	7.85	30	223.28	ppm(	6.632 mL (149.1 mV)	59.03	04839	10-01-10	15:19	ACQWE	Z1001100954	SN=123

-Need to be run

-Return High level

-low level

Change to 223.28



Test ID	LIMS ID	Meth	Smpl pH	SmpVol	SmplResults	Units	End Pt	Slope (m)	Calc C	Date	Time	Analyst	Run ID	Instr ID
Alk	K1010795-002.03	3	32 7.91	30	290.19	ppm	8.698 mL (149.1 mV)	59.03	04839	10-01-10	15.28	ACQWE	Z1001100954	SN=123
Alk	K1010795-003.03	3	33 5.71	30	5.6290	ppm	0.163 mL (149.1 mV)	59.03	04839	10-01-10	15.40	ACQWE	Z1001100954	SN=123
Alk	K1010788-001.06	3	34 6.57	30	66.991	ppm	2.008 mL (149.1 mV)	59.03	04839	10-01-10	15.42	ACQWE	Z1001100954	SN=123
Alk	K1010788-002.06	3	35 5.85	30	6.3373	ppm	0.190 mL (149.1 mV)	59.03	04839	10-01-10	15.47	ACQWE	Z1001100954	SN=123
Alk	K1010788-003.06	3	36 6.00	30	8.2251	ppm	0.247 mL (149.1 mV)	59.03	04839	10-01-10	15.50	ACQWE	Z1001100954	SN=123
Alk	K1010788-004.06	3	37 6.13	30	14.473	ppm	0.434 mL (149.1 mV)	59.03	04839	10-01-10	15.53	ACQWE	Z1001100954	SN=123
Alk	K1010790-001.02	3	38 7.39	30	241.89	ppm	7.250 mL (149.1 mV)	59.03	04839	10-01-10	15.56	ACQWE	Z1001100954	SN=123
Alk	K1010790-002.02	3	39 7.55	30	258.77	ppm	7.756 mL (149.1 mV)	59.03	04839	10-01-10	16.06	ACQWE	Z1001100954	SN=123
Alk	K1010790-003.02	3	40 7.62	30	533.01	ppm	15.976 mL (149.1 mV)	59.03	04839	10-01-10	16.16	ACQWE	Z1001100954	SN=123

low level  
low level

MB-1 did not read, so can only use  
 the best 20 samples that go with MB-2 and LCS-2

LCS 2% Rec = 104  
 785-1 - 1  $\bar{x}$  = 288 RPD = 1

With the exception of 785-9  
 Alk = bicarb  
 OH = carb = 0.0

785-9 had an original pH of 9.64  
 volume to 8.3 = 8, 2.74 pH volume = 288 mL  
 volume to 4.5 = 2.1 is unknown it wasn't able to  
 reach 4.5 in the # of aliquots allowed

**ANALYTICAL RESULTS SUMMARY**

**Instrument Name:** K-pH-01      **Analyst:** CVECCHITTO      **Analysis Lot:** 219269      **Method/Testcode:** SM 2320 B/Alkalinity Titr

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
K1010735-001	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	268.00 mg/L	30 mL	268 mg/L	1	3.0	9.0			10/1/10 10:30:00	N II
K1010735-001	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N II
K1010735-002	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	614.00 mg/L	30 mL	614 mg/L	1	3.0	9.0			10/1/10 10:30:00	N II
K1010735-002	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N II
K1010735-003	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	523.00 mg/L	30 mL	523 mg/L	1	3.0	9.0			10/1/10 10:30:00	N II
K1010735-003	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N II
K1010785-008	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	42.10 mg/L	30 mL	42.1 mg/L	1	3.0	9.0			10/1/10 10:30:00	N II
K1010788-001	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	67.00 mg/L	30 mL	67.0 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I
K1010788-001	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	67.00 mg/L	30 mL	67.0 mg/L	B	3.0	3.0			10/1/10 10:30:00	N I
K1010788-001	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N I
K1010789-001	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	290.00 mg/L	30 mL	290 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I
K1010789-002	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	299.00 mg/L	30 mL	299 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I
K1010789-003	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	151.00 mg/L	30 mL	151 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I
K1010789-004	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	467.00 mg/L	30 mL	467 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I
K1010790-001	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	242.00 mg/L	30 mL	242 mg/L	1	3.0	3.0			10/1/10 10:30:00	N I
K1010790-001	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N I
K1010790-002	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	259.00 mg/L	30 mL	259 mg/L	1	3.0	3.0			10/1/10 10:30:00	N I
K1010790-002	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N I
K1010790-003	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	533.00 mg/L	30 mL	533 mg/L	1	3.0	3.0			10/1/10 10:30:00	N I
K1010790-003	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N I
K1010795-001	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	223.00 mg/L	30 mL	223 mg/L	1	3.0	9.0			10/1/10 10:30:00	N III
K1010795-001	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	223.00 mg/L	30 mL	223 mg/L	1	3.0	3.0			10/1/10 10:30:00	N III
K1010795-001	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N III
K1010795-001	Hydroxide as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N III
K1010795-002	Alkalinity as CaCO <sub>3</sub> , Total	N/A	Water	Water	290.00 mg/L	30 mL	290 mg/L	1	3.0	9.0			10/1/10 10:30:00	N III
K1010795-002	Bicarbonate as CaCO <sub>3</sub>	N/A	Water	Water	290.00 mg/L	30 mL	290 mg/L	1	3.0	3.0			10/1/10 10:30:00	N III
K1010795-002	Carbonate as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N III
K1010795-002	Hydroxide as CaCO <sub>3</sub>	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N III
KQ1010691-01	Alkalinity as CaCO <sub>3</sub> , Total	MB	Water	Water	5.90 mg/L	30 mL	5.9 mg/L	J	3.0	9.0			10/1/10 10:30:00	N II
KQ1010691-01	Bicarbonate as CaCO <sub>3</sub>	MB	Water	Water	5.90 mg/L	30 mL	5.9 mg/L	1	3.0	3.0			10/1/10 10:30:00	N II
KQ1010691-01	Carbonate as CaCO <sub>3</sub>	MB	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N II
KQ1010691-01	Hydroxide as CaCO <sub>3</sub>	MB	Water	Water	0.00 mg/L	30 mL	3.0 mg/L	U	3.0	3.0			10/1/10 10:30:00	N II
KQ1010691-02	Alkalinity as CaCO <sub>3</sub> , Total	LCS	Water	Water	102.00 mg/L	30 mL	102 mg/L	1	3.0	9.0	105		10/1/10 10:30:00	N II
KQ1010691-04	Alkalinity as CaCO <sub>3</sub> , Total	DUP	Water	Water	286.00 mg/L	30 mL	286 mg/L	1	3.0	9.0			10/1/10 10:30:00	N I

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

219296

Original  
Work Request # (K10727) K10725, K10728, K10680, K10712, K10735, K10739, K10762,

Tier: IV II I II II II I I

Date Analyzed: 10/4/2010 K10789, K10795

Analyst: KC

Analysis: TDS

### DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

#### COMMENTS:

Final Approved by: [Signature] Date: 10/10/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: KCUEVAS

Analysis Lot: 219296

Method/Testcode: SM 2540 C/TDS

Method/Testcode: SM 2540 C/TDS

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MIDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
0680-002	Solids, Total Dissolved	N/A	Water	Water	1149.30 mg/L	75 ml	1150 mg/L	1	14	14	14		10/4/10 11:00	N II
0680-003	Solids, Total Dissolved	N/A	Water	Water	1780.00 mg/L	75 ml	1780 mg/L	1	14	14	14		10/4/10 11:00	N II
0712-001	Solids, Total Dissolved	N/A	Water	Water	91.00 mg/L	100 ml	91 mg/L	1	10	10	10		10/4/10 11:00	N II
0727-001	Solids, Total Dissolved	N/A	Water	Water	15.50 mg/L	200 ml	16 mg/L	1	5	10	10		10/4/10 11:00	N V
0727-002	Solids, Total Dissolved	N/A	Water	Water	31.00 mg/L	100 ml	31 mg/L	1	10	20	20		10/4/10 11:00	N V
0727-003	Solids, Total Dissolved	N/A	Water	Water	23.00 mg/L	100 ml	23 mg/L	1	10	20	20		10/4/10 11:00	N V
0727-004	Solids, Total Dissolved	N/A	Water	Water	25.00 mg/L	100 ml	25 mg/L	1	10	20	20		10/4/10 11:00	N V
0735-001	Solids, Total Dissolved	N/A	Water	Water	768.00 mg/L	75 ml	768 mg/L	1	14	14	14		10/4/10 11:00	N II
0735-002	Solids, Total Dissolved	N/A	Water	Water	3390.00 mg/L	50 ml	3390 mg/L	1	20	20	20		10/4/10 11:00	N II
0735-003	Solids, Total Dissolved	N/A	Water	Water	2229.30 mg/L	75 ml	2230 mg/L	1	14	14	14		10/4/10 11:00	N II
0735-004	Solids, Total Dissolved	N/A	Water	Water	1206.00 mg/L	200 ml	1210 mg/L	1	5.0	5.0	5.0		10/4/10 11:00	N II
0735-004	Solids, Total Dissolved	N/A	Water	Water	2902.00 mg/L	50 ml	2900 mg/L	1	20	20	20		10/4/10 11:00	N V
0735-004	Solids, Total Dissolved	N/A	Water	Water	586.70 mg/L	75 ml	587 mg/L	1	14	14	14		10/4/10 11:00	N V
0735-003	Solids, Total Dissolved	N/A	Water	Water	2065.30 mg/L	75 ml	2070 mg/L	1	14	14	14		10/4/10 11:00	N V
0735-004	Solids, Total Dissolved	N/A	Water	Water	3414.00 mg/L	50 ml	3410 mg/L	1	20	20	20		10/4/10 11:00	N V
0735-006	Solids, Total Dissolved	N/A	Water	Water	508.00 mg/L	75 ml	508 mg/L	1	14	14	14		10/4/10 11:00	N V
0735-007	Solids, Total Dissolved	N/A	Water	Water	1114.70 mg/L	75 ml	1110 mg/L	1	14	14	14		10/4/10 11:00	N V
0735-008	Solids, Total Dissolved	N/A	Water	Water	82.00 mg/L	100 ml	82.0 mg/L	1	5.0	5.0	5.0		10/4/10 11:00	N I
0762-001	Solids, Total Dissolved	N/A	Drinking Water	Water	1622.70 mg/L	75 ml	1620 mg/L	1	14	14	14		10/4/10 11:00	N II
10785-001	Solids, Total Dissolved	N/A	Water	Water	102.00 mg/L	50 ml	102 mg/L	1	20	20	20		10/4/10 11:00	N II
10785-002	Solids, Total Dissolved	N/A	Water	Water	129.00 mg/L	100 ml	129 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-003	Solids, Total Dissolved	N/A	Water	Water	88.00 mg/L	100 ml	88 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-004	Solids, Total Dissolved	N/A	Water	Water	118.00 mg/L	100 ml	118 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-005	Solids, Total Dissolved	N/A	Water	Water	67.00 mg/L	100 ml	67 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-006	Solids, Total Dissolved	N/A	Water	Water	106.00 mg/L	100 ml	106 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-007	Solids, Total Dissolved	N/A	Water	Water	59.00 mg/L	100 ml	59 mg/L	1	10	10	10		10/4/10 11:00	N II
10785-008	Solids, Total Dissolved	N/A	Water	Water	1730.00 mg/L	50 ml	1730 mg/L	1	20	20	20		10/4/10 11:00	N II
10785-009	Solids, Total Dissolved	N/A	Water	Water	132.00 mg/L	50 ml	132 mg/L	1	20	20	20		10/4/10 11:00	N I
10788-001	Solids, Total Dissolved	N/A	Water	Water	25.00 mg/L	200 ml	25.0 mg/L	1	5.0	5.0	5.0		10/4/10 11:00	N I
10788-002	Solids, Total Dissolved	N/A	Water	Water	41.50 mg/L	200 ml	41.5 mg/L	1	5.0	5.0	5.0		10/4/10 11:00	N I
10788-003	Solids, Total Dissolved	N/A	Water	Water	35.00 mg/L	200 ml	35.0 mg/L	1	5.0	5.0	5.0		10/4/10 11:00	N I
10788-004	Solids, Total Dissolved	N/A	Water	Water	138.70 mg/L	75 ml	139 mg/L	1	14	14	14		10/4/10 11:00	N I
10789-001	Solids, Total Dissolved	N/A	Water	Water	1356.00 mg/L	75 ml	1360 mg/L	1	14	14	14		10/4/10 11:00	N I
10789-002	Solids, Total Dissolved	N/A	Water	Water	677.30 mg/L	75 ml	677 mg/L	1	14	14	14		10/4/10 11:00	N I
10789-003	Solids, Total Dissolved	N/A	Water	Water	488.00 mg/L	75 ml	488 mg/L	1	14	14	14		10/4/10 11:00	N I
10789-004	Solids, Total Dissolved	N/A	Water	Water	545.00 mg/L	100 ml	545 mg/L	1	10	10	10		10/4/10 11:00	N III
10795-001	Solids, Total Dissolved	N/A	Water	Water	496.00 mg/L	75 ml	496 mg/L	1	14	14	14		10/4/10 11:00	N III
10795-002	Solids, Total Dissolved	N/A	Water	Water	450.70 mg/L	75 ml	451 mg/L	1	14	14	14		10/4/10 11:00	N III
10795-003	Solids, Total Dissolved	N/A	Water	Water	1884.00 mg/L	50 ml	1880 mg/L	1	20	20	20		10/4/10 11:00	N III
1010792-01	Solids, Total Dissolved	DUP	K1010785-009	Water								9		N II

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: KCUEVAS

Analysis Lot: 219296

Method/Testcode: SM 2540 C/TDS

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC? Tier</u>
<Q1010792-02	Solids, Total Dissolved	DUP	K1010680-003	Water	1690.70 mg/L	75 ml	1690 mg/L	1	14	14	100	5	10/4/10 11:00	N II
<Q1010792-03	Solids, Total Dissolved	DUP	K1010759-006	Water	3258.00 mg/L	50 ml	3260 mg/L	1	20	20	100	5	10/4/10 11:00	N V
<Q1010792-04	Solids, Total Dissolved	DUP	K1010735-002	Water	3460.00 mg/L	50 ml	3460 mg/L	1	20	20	100	2	10/4/10 11:00	N II
<Q1010792-05	Solids, Total Dissolved	MB		Water	-1.50 mg/L	200 ml	5.0 mg/L	1	5.0	5.0	100		10/4/10 11:00	N V
<Q1010792-06	Solids, Total Dissolved	MB		Water	-1.50 mg/L	200 ml	5.0 mg/L	1	5.0	5.0	100	99	10/4/10 11:00	N V
<Q1010792-07	Solids, Total Dissolved	LCS		Water	1078.00 mg/L	50 ml	1080 mg/L	1	20	20	100		10/4/10 11:00	N V
<Q1010792-08	Solids, Total Dissolved	LCS		Water	1174.00 mg/L	50 ml	1170 mg/L	1	20	20	108		10/4/10 11:00	N V

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Work Order #.: \_\_\_\_\_

Method: EPA SM 2540 C

Analysis: Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB	7z		200	120.0325	120.0330		120.0328	-0.0003	-1.50	<5
LCS	26y		50	76.3931	76.3935		76.3392	0.0539	1078	1080
K1010727-001	A18	77	200	75.7536	75.7539		75.7505	0.0031	15.5	15.5
K1010727-002	TINCA	89	100	77.0079	77.0080		77.0048	0.0031	31.0	31.0
K1010727-003	AA	90	100	80.2982	80.2983		80.2959	0.0023	23.0	23.0
K1010727-004	3Y	85	100	77.0720	77.0722		77.0695	0.0025	25.0	25.0
K1010785-001	25Y	2990	75	69.2435	69.2437		69.1218	0.1217	1623	1620
K1010785-002	18C	160	50	70.3280	70.3279	THICK/MUDDY	70.3229	0.0051	102	102
K1010785-003	[1A]	247	100	77.2394	77.2397		77.2265	0.0129	129	129
K1010785-004	III	263	100	73.7170	73.7169		73.7082	0.0088	88.0	88.0
K1010785-005	[16]	366	100	84.8371	84.8373		84.8253	0.0118	118	118
K1010785-006	B13	234	100	80.6872	80.6875		80.6805	0.0067	67.0	67.0
K1010785-007	14Y	307	100	76.9058	76.9058		76.8952	0.0106	106	106
K1010785-008	47Y	112	100	76.7720	76.7725		76.7661	0.0059	59.0	59.0
K1010785-009	XX	3649	50	74.8745	74.8748		74.7880	0.0865	1730	1730
K1010788-001	XIV	184	50	74.9103	74.9105	THICK/MUDDY	74.9037	0.0066	132	132
K1010788-002	[41]	54	200	75.7474	75.7479	MUL FIL	75.7424	0.0050	25.0	25.0
K1010788-003	1/9/2008	66	200	82.6778	82.6779	MUL FIL	82.6695	0.0083	41.5	41.5
K1010788-004	MONA	60	200	71.8761	71.8765	MUL FIL	71.8691	0.0070	35.0	35.0
K1010680-002	[115]	2196	75	86.6672	86.6673		86.5810	0.0862	1149	1150
K1010680-003	DIANNE	2499	75	86.0437	86.0438		85.9102	0.1335	1780	1780
K1010712-001	[39]	75	100	78.4725	78.4727		78.4634	0.0091	91.0	91.0
K1010785-009d	[312]	3649	50	75.4563	75.4569		75.3621	0.0942	1884	1880
K1010680-003d	7Y	2499	75	86.5082	86.5080		86.3814	0.1268	1691	1690

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml) Balance#31

APG #:4033 Lot# 280610 ID# TDS-I-28-N T.V. =1090 % Rec =99/102 k10735-2/2d x= 3430 rpd

Wt (1) Start	13:00	Wt (2) Start	06:30	Wt (3) Start		k10785-9/9d x= 1810 rpd= 8%
Stop	5:00	Stop	05:00	Stop		k10680-3/3d x= 1740 rpd= 5%
Wt (1) Start	180	Wt (2) Start	180	Wt (3) Start		k10759-6/6d x= 3340 rpd= 4%
Temp Stop	180	Temp Stop	180	Temp Stop		date time

Analyzed By: KC Date Analyzed: 10/4/2010 11:00  
 Reviewed By: *A* Date Reviewed: 10/10/10

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: \_\_\_\_\_

Method: EPA SM 2540 C

Analysis: \_\_\_\_\_

Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB	X15		200	128.1640	128.1646		128.1643	-0.0003	-1.50	<5
LCS	G27		50	78.5961	78.5962		78.5374	0.0587	1174	1170
K1010735-001	C16	1090	75	86.0880	86.0876		86.0304	0.0576	768	768
K1010735-002	3C	4645	50	71.3664	71.3660		71.1969	0.1695	3390	3390
K1010735-003	90210	2473	75	88.6028	88.6029		88.4356	0.1672	2229	2230
K1010735-004	DE	14	200	68.2439	68.2438		68.0027	0.2412	1206	1210
K1010759-002	CAT	4444	50	71.7050	71.7046		71.5599	0.1451	2902	2900
K1010759-003	12Y	1038	75	83.6250	83.6252		83.5810	0.0440	587	587
K1010759-004	32Y	2110	75	75.4986	75.4990		75.3437	0.1549	2065	2070
K1010759-006	K1	4561	50	76.5298	76.5301		76.3591	0.1707	3414	3410
K1010759-007	MAX	1021	75	67.3805	67.3804		67.3424	0.0381	508	508
K1010759-008	31C	2607	75	78.8502	78.8506		78.7666	0.0836	1115	1120
K1010762-001	18Y	268	100	80.5421	80.5419		80.5339	0.0082	82.0	82.0
K1010789-001	[24]	1135	75	74.2100	74.2103		74.1996	0.0104	139	139
K1010789-002	[17]	1397	75	79.0115	79.0117		78.9098	0.1017	1356	1360
K1010789-003	15A	1402	75	69.7708	69.7712		69.7200	0.0508	677	677
K1010789-004	[23]	1940	75	74.1756	74.1760		74.1390	0.0366	488	488
K1010795-001	[35]	733	100	83.5684	83.5689		83.5139	0.0545	545	545
K1010795-002	39Y	1046	75	70.5212	70.5216		70.4840	0.0372	496	496
K1010795-003	[29]	1920	75	76.0551	76.0551		76.0213	0.0338	451	451
K1010759-006d	B30	4561	50	73.9889	73.9892		73.8260	0.1629	3258	3260
K1010735-002d	COOTER	4645	50	69.6928	69.6931		69.5198	0.1730	3460	3460

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

ID# TDS-1-28-N

Analyzed By: kc	Date Analyzed: 10/4/2010 11:00
Reviewed By: <i>[Signature]</i>	Date Reviewed: 10/10/10

Service Request # K  
Analysis For: \_\_\_\_\_

TDS

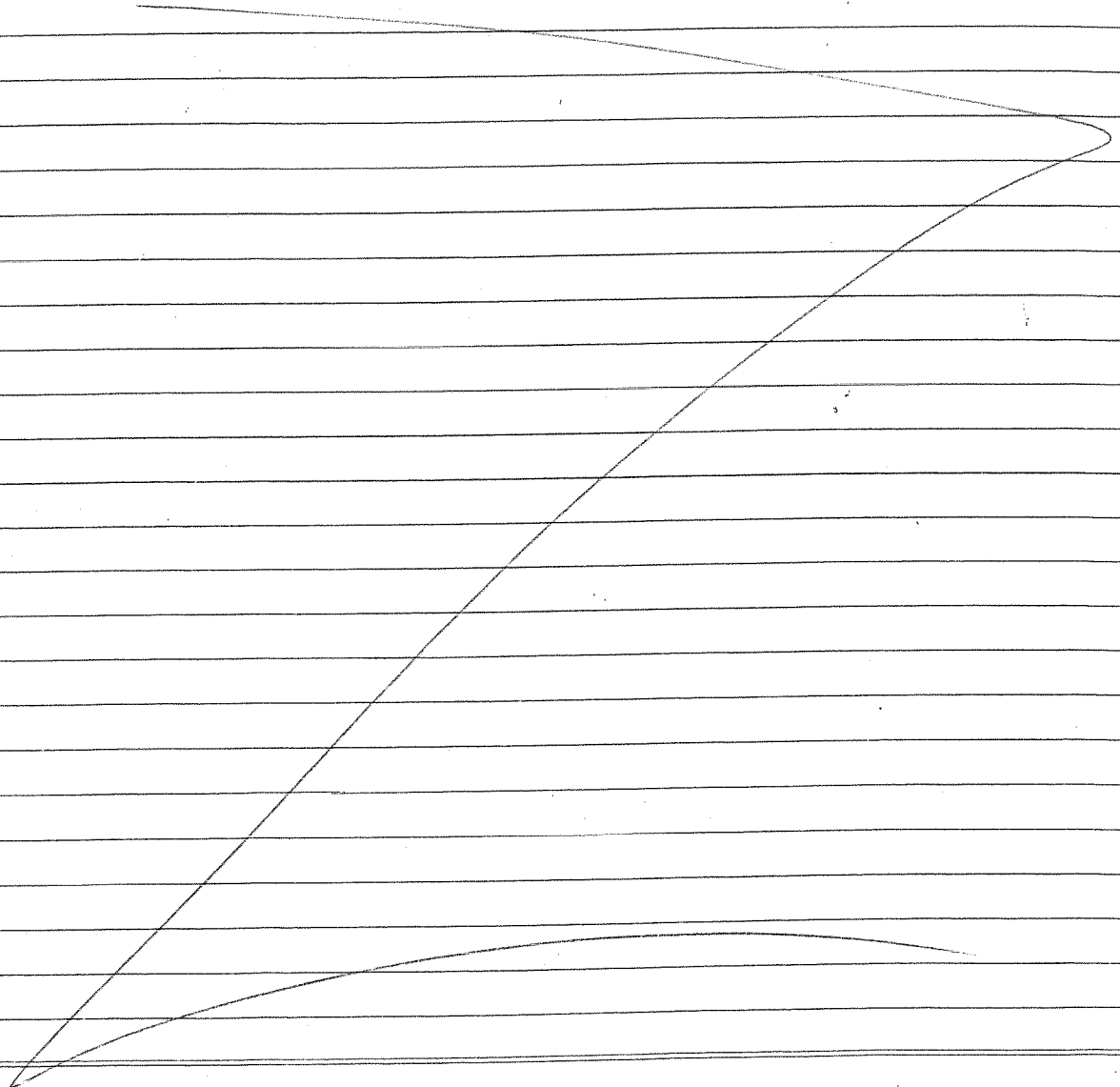
10-4-10

Method: \_\_\_\_\_  
Matrix: \_\_\_\_\_

x 192916

K10785-2 thick, muddy used multiple filters

K10788-1 thick, muddy used multiple filters  
↓ 2 used multiple filters  
3  
4 ↓



Comments:

Analyzed By: KC

Date: 10/4/10

Reviewed By: JK

Date: 10/10/10

Genbench1



## **Metals**

Columbia Analytical Services

- Cover Page -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent  
Project Name: Heglar Kronquist  
Project No.: 0907194.000.0601

Service Request: K1010795

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<u>Sample Name:</u>	<u>Lab Code:</u>
MW-6D	K1010795-001DDISS
MW-6	K1010795-001DISS
MW-6S	K1010795-001SDISS
MW-5	K1010795-002DISS
EQUIPMENT BLANK	K1010795-003DISS
Method Blank	K1010795-MB

Comments:

Approved By: \_\_\_\_\_



Date: \_\_\_\_\_

11/12/10

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Exponent Service Request: K1010795  
 Project No.: 0907194.000.0601 Date Collected: 09/29/10  
 Project Name: Heglär Kronquist Date Received: 09/30/10  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: MW-6 Lab Code: K1010795-001DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	11.5	J	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	1.7		
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	61000		
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	35.3		
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	19100		
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	62.9		
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	4450		
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	18600		

% Solids: 0.0

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Exponent Service Request: K1010795  
 Project No.: 0907194.000.0601 Date Collected: 09/29/10  
 Project Name: Hegljar Kronquist Date Received: 09/30/10  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: MW-5 Lab Code: K1010795-002DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.8		
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	78600		
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	15.1	J	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	31300		
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	37.4		
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	4670		
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	32100		

% Solids: 0.0

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Exponent Service Request: K1010795  
 Project No.: 0907194.000.0601 Date Collected: 09/29/10  
 Project Name: Heglär Kronquist Date Received: 09/30/10  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: EQUIPMENT BLANK Lab Code: K1010795-003DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.1	U	
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	6.0	U	
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	5.3	J	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	0.20	U	
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	50	U	
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	46	J	

% Solids: 0.0

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Exponent Service Request: K1010795  
 Project No.: 0907194.000.0601 Date Collected:  
 Project Name: Heglars Kronquist Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: Method Blank Lab Code: K1010795-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.1	U	
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	6.0	U	
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	6.2	J	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	0.20	U	
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	50	U	
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	70	J	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	4960	99	10000	9760	98	9791	98	200.7
Arsenic	25.0	24.8	99	25.0	25.1	100	25.9	104	200.8
Calcium	12500	12320	99	10000	9596	96	9719	97	200.7
Iron	2500	2491	100	10000	9798	98	10020	100	200.7
Magnesium	12500	12460	100	10000	10070	101	9727	97	200.7
Manganese	1250	1234	99	250	242	97	239	96	200.7
Potassium	12500	12370	99	10000	9834	98	9660	97	200.7
Sodium	12500	12720	102	10000	10070	101	9705	97	200.7

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglars Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	9627	96	9792	98	200.7
Arsenic				25.0	25.8	103	25.6	102	200.8
Calcium				10000	9651	97	9759	98	200.7
Iron				10000	9784	98	9878	99	200.7
Magnesium				10000	9656	97	10070	101	200.7
Manganese				250	252	101	243	97	200.7
Potassium				10000	9229	92	9680	97	200.7
Sodium				10000	9883	99	9731	97	200.7



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	9844	98	9757	98	200.7
Arsenic				25.0	25.9	104			200.8
Calcium				10000	10100	101	9873	99	200.7
Iron				10000	10250	102	10060	101	200.7
Magnesium				10000	10000	100	9547	95	200.7
Manganese				250	242	97	246	98	200.7
Potassium				10000	9454	95	9264	93	200.7
Sodium				10000	9626	96	9186	92	200.7

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Aluminum				50.0	46.0	92		
Arsenic				0.5	0.53	106		
Arsenic				0.5			0.53	106
Calcium				50.0	50.5	101		
Iron				20.0	28.5	142		
Magnesium				20.0	22.4	112		
Manganese				5.0	5.1	102		
Potassium				400.0	351.0	88		
Sodium				200.0	143.9	72		

**Metals**

- 3 -

**BLANKS**

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Aluminum	2.0	U	2.5	J	2.0	U	2.0	U	200.7
Arsenic	0.10	U	0.10	U	0.10	U	0.10	U	200.8
Calcium	-15.8	J	-7.1	J	6.0	U	6.0	U	200.7
Iron	3.0	J	4.1	J	8.3	J	3.0	U	200.7
Magnesium	2.0	U	2.0	U	2.0	U	2.9	J	200.7
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	200.7
Potassium	50	U	50	U	50	U	-125	J	200.7
Sodium	30.2	J	-59.8	J	-206.4	J	-73.9	J	200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Aluminum			2.0	U	-2.5	J	2.0	U	200.7
Arsenic			0.10	U	0.10	U			200.8
Calcium			-9.6	J	6.0	U	6.0	U	200.7
Iron			-3.1	J	3.0	U	3.4	J	200.7
Magnesium			3.3	J	2.0	U	6.1	J	200.7
Manganese			0.2	U	0.2	U	0.2	U	200.7
Potassium			-51	J	-156	J	-52	J	200.7
Sodium			20.0	U	20.0	U	79.6	J	200.7

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	471000	473600	95			
Calcium	500000	500000	464900	465400	93			
Iron	200000	200000	184300	184000	92			
Magnesium	500000	500000	309100	305300	61			
Manganese		500	-3	466	93			
Potassium			-43	39				

80-120% control criteria is not applicable to interfering elements (Al, Ca, Fe, Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: MW-6S

Lab Code: K1010795-001SDISS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1960		11.5	J	2000.00	97.4		200.7
Arsenic	70 - 130	22.2		1.7		20.00	102.5		200.8
Calcium		71800		61000		10000.00	108.0		200.7
Iron	70 - 130	1020		35.3		1000.00	98.5		200.7
Magnesium	70 - 130	29100		19100		10000.00	100.0		200.7
Manganese	70 - 130	525		62.9		500.00	92.4		200.7
Potassium	70 - 130	14800		4450		10000.00	103.5		200.7
Sodium	70 - 130	29600		18600		10000.00	110.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1010795  
 Project No.: 0907194.000.0601 Units: UG/L  
 Project Name: Heglar Kronquist Basis: N/A  
 Matrix: WATER % Solids: 0.0

Sample Name: MW-6D

Lab Code: K1010795-001DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		11.5	J	12.3	J	6.7		200.7
Arsenic		1.7		1.7		0.0		200.8
Calcium	20	61000		61800		1.3		200.7
Iron		35.3		46.0		26.3		200.7
Magnesium	20	19100		19500		2.1		200.7
Manganese	20	62.9		63.9		1.6		200.7
Potassium	20	4450		4640		4.2		200.7
Sodium	20	18600		19000		2.1		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	4910	98.2					
Arsenic	20	20.0	100.0					
Calcium	12500	12400	99.2					
Iron	2500	2570	102.8					
Magnesium	12500	12100	96.8					
Manganese	1250	1270	101.6					
Potassium	12500	11800	94.4					
Sodium	12500	11800	94.4					



Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Hegljar Kronquist

Sample Name: MW-6L

Lab Code: K1010795-001LDISS

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	11.5	J	10.0	U	100.0		P
Calcium	61030		64600		5.8		P
Iron	35.3		74.0	J	109.6		P
Magnesium	19090.0		19735.0		3.4		P
Manganese	62.9		67.0		6.5		P
Potassium	4449		3874		12.9	E	P
Sodium	18610		18825		1.2		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP/ICP-MS ID #: K-ICP-MS-03

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		0.5	0.1	MS

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	394.4		50	2.0	P
Calcium	315.8		50	6.0	P
Iron	259.9		20	3.0	P
Magnesium	285.2		20	2.0	P
Manganese	257.6		5.0	0.2	P
Potassium	766.5		400	50	P
Sodium	589.5		300	20.0	P

Comments:

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## Metals

- 11A -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	394.401	0.0000000	0.0000880	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000290	0.0000000	-0.0001420	0.0000000	0.0000000
Arsenic	189.042	0.0000220	0.0000000	-0.0000580	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0002330	0.0000000	0.0016240
Cadmium	226.502	0.0000000	0.0000000	0.0000590	0.0000000	0.0000150
Calcium	393.366	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	230.786	0.0000000	0.0000000	-0.0000030	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0001620	0.0000000	0.0006220
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000940	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000130	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0001940
Phosphorus	214.914	-0.0005540	0.0000000	0.0006550	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	-0.0001120	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0014540
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000210	0.0000000	0.0000000	0.0000320
Vanadium	292.402	0.0000000	0.0000000	-0.0000020	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0001010	0.0000000	0.0000000

Comments:

## Metals

- 11B -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Mn	Mo	Ni	P
Aluminum	394.401	0.0000000	0.0000000	0.0004350	0.0003100	0.0000000
Antimony	206.833	0.0173600	-0.0001330	0.0011910	0.0000000	0.0000000
Arsenic	189.042	0.0003470	-0.0001550	0.0005480	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	-0.0000300	-0.0001890	-0.0000190	0.0000000
Boron	249.678	0.0004530	0.0000000	-0.0008670	0.0000000	0.0000000
Cadmium	226.502	0.0000410	0.0000000	-0.0000280	-0.0000170	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0001390	0.0000680	0.0000000	0.0000280
Cobalt	230.786	-0.0000120	0.0000380	0.0011280	-0.0001970	0.0000000
Copper	224.7	0.0000000	0.0000240	0.0025520	-0.0024670	0.0000000
Iron	259.94	0.0000000	0.0000000	-0.0002400	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0001340	-0.0010800	0.0001780	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	-0.0014420	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000110	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0000270	0.0000000	-0.0000310	0.0000000
Nickel	231.604	-0.0000240	0.0000000	-0.0000480	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	-0.0004110	0.0085820	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0006630	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0192220	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000390	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000080	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002570	0.0008680	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000410	0.0001300	0.0000000
Vanadium	292.402	0.0000000	-0.0027450	-0.0002030	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	-0.0001050	0.0057510	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:		
		Si	Ti	V
Aluminum	394.401	0.0000000	0.0000000	0.0005300
Antimony	206.833	-0.0000210	0.0004780	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000280
Beryllium	234.861	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0001270
Cadmium	226.502	-0.0000020	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000590	-0.0000760
Cobalt	230.786	0.0000000	0.0000000	0.0000000
Copper	224.7	-0.0000060	0.0004820	-0.0000300
Iron	259.94	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0002440	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0000780	0.0000910
Sodium	589.592	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0008960	-0.0007350
Tin	189.989	0.0000000	-0.0007490	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0009490	0.0000000
Zinc	213.856	0.0000000	-0.0003230	0.0000000

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	900000	200.7
Calcium	15.000	900000	200.7
Iron	15.000	360000	200.7
Magnesium	15.000	90000	200.7
Manganese	15.000	9000	200.7
Potassium	15.000	900000	200.7
Sodium	15.000	900000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-MS-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.000	2000	200.8

Comments:



Metals  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1010795-001DDISS	11/08/10	50.0	50.0
K1010795-001DISS	11/08/10	50.0	50.0
K1010795-001SDISS	11/08/10	50.0	50.0
K1010795-002DISS	11/08/10	50.0	50.0
K1010795-003DISS	11/08/10	50.0	50.0
K1010795-MB	11/08/10	50.0	50.0
LCSW	11/08/10	50.0	50.0

Metals  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1010795-001DDISS	10/09/10	50.0	50.0
K1010795-001DISS	10/09/10	50.0	50.0
K1010795-001SDISS	10/09/10	50.0	50.0
K1010795-002DISS	10/09/10	50.0	50.0
K1010795-003DISS	10/09/10	50.0	50.0
K1010795-MB	10/09/10	50.0	50.0
LCSW	10/09/10	50.0	50.0

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
BLK	1	12:52		X					X				X	X	X			X		X											
STD A	1	12:55													X																
STD B	1	12:58		X					X				X	X				X		X											
ICV1	1	13:02		X					X				X	X	X			X		X											
ZZZZZZ	1	13:05																													
ZZZZZZ	1	13:10																													
ICB1	1	13:13		X					X				X	X	X			X		X											
CCV1	1	13:16													X																
CCV1	1	13:20		X					X				X	X				X		X											
CCB1	1	13:26		X					X				X	X	X			X		X											
CRDL1	1	13:29		X					X				X	X	X			X		X											
ZZZZZZ	1	13:32																													
ICSA	1	13:34		X					X				X	X	X			X													
ICSAB	1	13:38		X					X				X	X	X			X													
ZZZZZZ	1	13:42																													
ZZZZZZ	1	13:45																													
ZZZZZZ	1	13:48																													
ZZZZZZ	1	13:51																													
ZZZZZZ	1	13:55																													
ZZZZZZ	1	13:58																													
CCV2	1	14:01													X																
CCV2	1	14:04		X					X				X	X				X		X											
CCB2	1	14:08		X					X				X	X	X			X		X											
ZZZZZZ	1	14:13																													
ZZZZZZ	1	14:16																													
ZZZZZZ	1	14:18																													
ZZZZZZ	1	14:21																													
ZZZZZZ	1	14:24																													
ZZZZZZ	1	14:27																													
ZZZZZZ	1	14:30																													
ZZZZZZ	1	14:33																													
ZZZZZZ	1	14:37																													

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1	14:40																													
CCV3	1	14:43																													
CCV3	1	14:46		X					X				X	X					X			X									
CCB3	1	14:50		X					X				X	X	X				X			X									
ZZZZZZ	1	14:52																													
ZZZZZZ	1	14:56																													
ZZZZZZ	1	14:59																													
ZZZZZZ	1	15:02																													
ZZZZZZ	1	15:06																													
ZZZZZZ	1	15:10																													
ZZZZZZ	1	15:13																													
K1010795-MB	1	15:16		X					X				X	X	X				X			X									
LCSW	1	15:19		X					X				X	X	X				X			X									
ZZZZZZ	1	15:22																													
CCV4	1	15:25																													
CCV4	1	15:28		X					X				X	X					X			X									
CCB4	1	15:32		X					X				X	X	X				X			X									
K1010795-001DISS	1	15:35		X					X				X	X	X				X			X									
K1010795-001DDISS	1	15:38		X					X				X	X	X				X			X									
K1010795-001LDISS	5	15:42		X					X				X	X	X				X			X									
K1010795-001SDISS	1	15:45		X					X				X	X	X				X			X									
K1010795-002DISS	1	15:48		X					X				X	X	X				X			X									
K1010795-003DISS	1	15:52		X					X				X	X	X				X			X									
ZZZZZZ	1	15:54																													
ZZZZZZ	1	15:58																													
ZZZZZZ	1	16:02																													
ZZZZZZ	1	16:05																													
CCV5	1	16:08																													
CCV5	1	16:11		X					X				X	X					X			X									
CCB5	1	16:15		X					X				X	X	X				X			X									
ZZZZZZ	1	16:18																													
ZZZZZZ	1	16:21																													

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
ZZZZZZ	1	16:24																											
ZZZZZZ	1	16:27																											
ZZZZZZ	1	16:31																											
ZZZZZZ	1	16:34																											
ZZZZZZ	1	16:37																											
ZZZZZZ	1	16:41																											
ZZZZZZ	1	16:44																											
ZZZZZZ	1	16:47																											
CCV6	1	16:51																											
CCV6	1	16:54		X						X			X	X						X			X						
CCB6	1	16:58		X						X			X	X	X					X			X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

**Metals**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 11/09/10

End Date: 11/09/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
Cal. Blk	1	10:58				X																									
Cal. Stn	1	11:03				X																									
ICV1	1	11:14				X																									
CCV1	1	11:24				X																									
ICB1	1	11:45				X																									
CCB1	1	11:52				X																									
CRA	1	11:57				X																									
ZZZZZZ	1	12:07																													
ZZZZZZ	1	12:12																													
ZZZZZZ	1	12:23																													
ZZZZZZ	1	12:32																													
ZZZZZZ	1	12:42																													
ZZZZZZ	1	12:53																													
ZZZZZZ	1	13:03																													
ZZZZZZ	1	13:14																													
ZZZZZZ	1	13:24																													
CCV2	1	13:34				X																									
CCB2	1	13:55				X																									
ZZZZZZ	1	14:01																													
ZZZZZZ	1	14:11																													
ZZZZZZ	1	14:17																													
ZZZZZZ	1	14:24																													
ZZZZZZ	1	14:31																													
ZZZZZZ	1	14:37																													
K1010795-MB	1	14:44				X																									
LCSW	1	14:49				X																									
K1010795-001DISS	1	15:00				X																									
K1010795-001DDISS	1	15:09				X																									
CRA	1	15:17				X																									
CCV3	1	15:27				X																									
CCB3	1	15:37				X																									
K1010795-001SDISS	1	15:45				X																									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

**Metals**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1010795

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 11/09/10

End Date: 11/09/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
K1010795-002DISS	1	15:55				X																									
K1010795-003DISS	1	16:05				X																									
ZZZZZZ	1	16:10																													
ZZZZZZ	1	16:18																													
ZZZZZZ	1	16:23																													
ZZZZZZ	1	16:29																													
ZZZZZZ	1	16:34																													
ZZZZZZ	1	16:39																													
CCV4	1	16:44				X																									
CCB4	1	16:55				X																									
ZZZZZZ	1	17:00																													
ZZZZZZ	1	17:06																													
ZZZZZZ	1	17:11																													
ZZZZZZ	1	17:21																													
ZZZZZZ	1	17:31																													
ZZZZZZ	1	17:41																													
ZZZZZZ	1	17:52																													
ZZZZZZ	1	18:01																													
ZZZZZZ	1	18:11																													
ZZZZZZ	1	18:21																													
CCV5	1	18:41				X																									
CCB5	1	18:52				X																									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010795  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li_6	Q	Element Sc_45	Q	Element Ga_71	Q	Element Y_89	Q	Element Rh_103	Q	Element In_115	Q
Cal. Blk	Cal. Blk	1058	100				100		100		100		100	
Cal. Stn	Cal. Stn	1103	101				100		100		101		103	
ICV1	ICV1	1114	99				99		99		100		103	
CCV1	CCV1	1124	99				99		100		101		103	
ICB1	ICB1	1145	96				96		96		97		98	
CCB1	CCB1	1152	98				96		97		98		98	
CRA	CRA	1157	98				96		96		97		97	
ZZZZZZ	ZZZZZZ	1207												
ZZZZZZ	ZZZZZZ	1212												
ZZZZZZ	ZZZZZZ	1223												
ZZZZZZ	ZZZZZZ	1232												
ZZZZZZ	ZZZZZZ	1242												
ZZZZZZ	ZZZZZZ	1253												
ZZZZZZ	ZZZZZZ	1303												
ZZZZZZ	ZZZZZZ	1314												
ZZZZZZ	ZZZZZZ	1324												
CCV2	CCV2	1334	93				90		91		92		94	
CCB2	CCB2	1355	92				89		90		91		91	
ZZZZZZ	ZZZZZZ	1401												
ZZZZZZ	ZZZZZZ	1411												
ZZZZZZ	ZZZZZZ	1417												
ZZZZZZ	ZZZZZZ	1424												
ZZZZZZ	ZZZZZZ	1431												
ZZZZZZ	ZZZZZZ	1437												
K1010795-MB	Method Blank	1444	89				86		87		89		90	
LCSW	LCSW	1449	90				87		88		90		91	
K1010795-001DISS	MW-6	1500	88				83		86		84		87	
K1010795-001DDIS	MW-6D	1509	88				82		85		83		86	
CRA	CRA	1517	87				84		85		87		89	
CCV3	CCV3	1527	85				84		86		88		90	
CCB3	CCB3	1537	84				81		82		84		86	
K1010795-001SDIS	MW-6S	1545	81				75		79		78		81	
K1010795-002DISS	MW-5	1555	77				72		76		75		78	
K1010795-003DISS	EQUIPMENT BLANK	1605	75				72		74		76		78	
ZZZZZZ	ZZZZZZ	1610												
ZZZZZZ	ZZZZZZ	1618												
ZZZZZZ	ZZZZZZ	1623												
ZZZZZZ	ZZZZZZ	1629												
ZZZZZZ	ZZZZZZ	1634												
ZZZZZZ	ZZZZZZ	1639												
CCV4	CCV4	1644	76				71		72		74		77	
CCB4	CCB4	1655	73				67		69		72		73	
ZZZZZZ	ZZZZZZ	1700												
ZZZZZZ	ZZZZZZ	1706												
ZZZZZZ	ZZZZZZ	1711												



Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010795  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li_6	Q	Element Sc_45	Q	Element Ga_71	Q	Element Y_89	Q	Element Rh_103	Q	Element In_115	Q
ZZZZZZ	ZZZZZZ	1721												
ZZZZZZ	ZZZZZZ	1731												
ZZZZZZ	ZZZZZZ	1741												
ZZZZZZ	ZZZZZZ	1752												
ZZZZZZ	ZZZZZZ	1801												
ZZZZZZ	ZZZZZZ	1811												
ZZZZZZ	ZZZZZZ	1821												
CCV5	CCV5	1841	69				63		64		67		70	
CCB5	CCB5	1852	68				60		62		65		66	

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

ab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 ab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010795  
 CP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:										
			Element Lu_175	Q	Element Th_232	Q	Element	Q	Element	Q			
Cal. Blk	Cal. Blk	1058	100		100								
Cal. Stn	Cal. Stn	1103	102		103								
ICV1	ICV1	1114	103		103								
CCV1	CCV1	1124	102		104								
ICB1	ICB1	1145	99		100								
CCB1	CCB1	1152	99		99								
CRA	CRA	1157	99		100								
ZZZZZZ	ZZZZZZ	1207											
ZZZZZZ	ZZZZZZ	1212											
ZZZZZZ	ZZZZZZ	1223											
ZZZZZZ	ZZZZZZ	1232											
ZZZZZZ	ZZZZZZ	1242											
ZZZZZZ	ZZZZZZ	1253											
ZZZZZZ	ZZZZZZ	1303											
ZZZZZZ	ZZZZZZ	1314											
ZZZZZZ	ZZZZZZ	1324											
CCV2	CCV2	1334	97		100								
CCB2	CCB2	1355	95		97								
ZZZZZZ	ZZZZZZ	1401											
ZZZZZZ	ZZZZZZ	1411											
ZZZZZZ	ZZZZZZ	1417											
ZZZZZZ	ZZZZZZ	1424											
ZZZZZZ	ZZZZZZ	1431											
ZZZZZZ	ZZZZZZ	1437											
K1010795-MB	Method Blank	1444	94		96								
LCSW	LCSW	1449	95		98								
K1010795-001DISS	MW-6	1500	94		97								
K1010795-001DDIS	MW-6D	1509	93		96								
CRA	CRA	1517	93		96								
CCV3	CCV3	1527	96		100								
CCB3	CCB3	1537	91		94								
K1010795-001SDIS	MW-6S	1545	90		95								
K1010795-002DISS	MW-5	1555	86		90								
K1010795-003DISS	EQUIPMENT BLANK	1605	86		90								
ZZZZZZ	ZZZZZZ	1610											
ZZZZZZ	ZZZZZZ	1618											
ZZZZZZ	ZZZZZZ	1623											
ZZZZZZ	ZZZZZZ	1629											
ZZZZZZ	ZZZZZZ	1634											
ZZZZZZ	ZZZZZZ	1639											
CCV4	CCV4	1644	84		90								
CCB4	CCB4	1655	81		86								
ZZZZZZ	ZZZZZZ	1700											
ZZZZZZ	ZZZZZZ	1706											
ZZZZZZ	ZZZZZZ	1711											

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010795  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:																	
			Element Lu_175	Q	Element Th_232	Q	Element	Q	Element	Q	Element	Q								
zzzzzz	zzzzzz	1721																		
zzzzzz	zzzzzz	1731																		
zzzzzz	zzzzzz	1741																		
zzzzzz	zzzzzz	1752																		
zzzzzz	zzzzzz	1801																		
zzzzzz	zzzzzz	1811																		
zzzzzz	zzzzzz	1821																		
CCV5	CCV5	1841	78		84															
CCB5	CCB5	1852	75		79															



**Preparation Information Benchsheet**

**Prep Run:** 123141      **Prep Workflow:** MetDigAqMS      **Status:** Prepped      **Prep Date:** 11/08/2010  
**Team:** Metals      **Prep Method:** METALS      **Current Step:** Digestion      **Due Date:** 16:00  
**Analyst:** JBAILEY      EPA CLP-      **Rush/NPDES:** NPDES      ILM04.0

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1012167-05	Method Blank		50 mL	50 mL			Metals T	1% HNO3
KQ1012167-06	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	20439 21569	Metals T	1% HNO3
K1010795-001	MW-6	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-001: KQ1012167-01	Duplicate	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-001: KQ1012167-02	Matrix Spike	.05	50 mL	50 mL	1 mL 1 mL	20439 21569	Metals D	1% HNO3
K1010795-002	MW-5	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-003	EQUIPMENT BLANK	.05	50 mL	50 mL			Metals D	1% HNO3
K1010850-001	MW-2	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-002	MW-1	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-003	MW-4	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-004	Equipment Blank	.10	50 mL	50 mL			Metals D	1% HNO3
K1010899-001	MW-3	.12	50 mL	50 mL			Metals D	1% HNO3
K1010899-002	Equipment Blank	.12	50 mL	50 mL			Metals D	1% HNO3
K1011360-001	BA98225	.04	50 mL	50 mL			Metals T	1% HNO3
K1011360-001: KQ1012167-07	Duplicate	.04	50 mL	50 mL			Metals T	1% HNO3
K1011360-001: KQ1012167-08	Matrix Spike	.04	50 mL	50 mL	1 mL 1 mL	20439 21569	Metals T	1% HNO3
K1011461-001	MW7A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-002	MW8A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-003	MW11A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-004	MW12A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-005	MW34	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-006	MW35	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-007	MW36	.04	50 mL	50 mL			Metals T	1% HNO3

K1011461-008	MW37	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-009	MW38	.04	50 mL	50 mL			Metals T	1% HNO3

25 Total Samples consisting of 19 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET 200.8 1000ug/L Stock	Spike	21569	3/21/2011	K-MET Ag 1000 ppb Stock	Spike	20439	4/28/2011

**Preparation Materials**

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3 ULTREX	21674	Digestion	K-MET 50ml Centrifuge Tube	22573

**Preparation Hardware / Equipment**


Step	Name	Property	Value
Digestion	K-BlockDigerster-05	Temperature	95 deg C

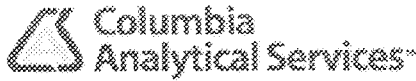
**Preparation Steps**

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	08-NOV-10 16:00	08-NOV-10 19:00	JBAILEY		N	

**Comments**

**Review**

Reviewed by:  Date: 11/9/10



Preparation Information Benchsheet

**Prep Run:** 123142      **Prep Workflow:** MetDigAqICP      **Status:** Prepped      **Prep Date:** 11/09/2010  
**Team:** Metals      **Prep Method:** METALS      **Current Step:** Digestion      **Due Date:** 10/29/2010  
**Analyst:** JBAILEY      **Rush/NPDES:** NPDES

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1012168-01	Method Blank		50 mL	50 mL			Metals T	5% HCl
KQ1012168-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL	18109 20255 20797	Metals T	5% HCl
KQ1012168-07	Lab Control Sample		50 mL	50 mL	0.5 mL	19316	Metals T	5% HCl
K1010795-001	MW-6	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-001: KQ1012168-03	Duplicate	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-001: KQ1012168-04	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL	20981 21052 22913 23177	Metals D	5% HCl
K1010795-002	MW-5	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-003	EQUIPMENT BLANK	.05	50 mL	50 mL			Metals D	5% HCl
K1010850-001	MW-2	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-002	MW-1	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-003	MW-4	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-004	Equipment Blank	.10	50 mL	50 mL			Metals D	5% HCl
K1010899-001	MW-3	.12	50 mL	50 mL			Metals D	5% HCl
K1010899-002	Equipment Blank	.12	50 mL	50 mL			Metals D	5% HCl
K1011360-001	BA98225	.04	50 mL	50 mL			Metals T	5% HCl
K1011360-001: KQ1012168-05	Duplicate	.04	50 mL	50 mL			Metals T	5% HCl
K1011360-001: KQ1012168-06	Matrix Spike	.04	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL	20981 21052 22913 23177	Metals T	5% HCl
K1011360-001: KQ1012168-08	Matrix Spike	.04	50 mL	50 mL	0.5 mL	19316	Metals T	5% HCl
K1011461-001	MW7A	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-002	MW8A	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-003	MW11A	.04	50 mL	50 mL			Metals T	5% HCl



Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mis Added
K-MET SS1	HNO3	50.0	1000ml	-	0.5
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	200	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb	50	1000ml	50	
V	100*	1000ml	50		
Zn	100*	1000ml	50		
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	0.5
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.5
	B	50	500ml	100	
	Mn	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	0.5
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Cr, Mg, Ni, K	no dilution	-	2500	0.25
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	0.25
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	0.25
	Cd	no dilution	-	250	

\* Denotes volume of mixed stock standard.  
 \*\* Denotes 10,000 ppm individual stock standards.

Standard	mis of standard	ppm	Logbook #	Exp. Date



Service Request # K1010795  
Instrument ID# K-ICP-AES-03

## ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. ICV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. ICB below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. CRI standard analyzed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. ICS standards within 20% of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. All preceding CCVs within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Following CCV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bracketing CCBs below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Method Blank below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. All analytes within instrument linear range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Comments:

StarLIMS Run # 224778      Saved under 111110BICP03  
200.7 Calibration. NR Cu2247. NR LL Sr.  
Raise LL K MRL to 0.2ppm. *Na MRL = 0.3 ppm.*  
Report Cd2265, Cu3273, Zn2062, *Al3944, Ca3158, Mg2852*

Primary Review by LMUR      Date 11/11/10

Secondary Review by 3C      Date 11/11/10

Sample Name: BLK      Acquired: 11/11/2010 12:52:38      Type: Cal

Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	-65.94	8.321	3.629	.0619	-4.4607	42.09
Stddev	.0000	6.28	.637	.062	.0085	6.3790	4.83
%RSD	9.749	9.518	7.654	1.716	13.74	143.00	11.47

#1	.0003	-70.38	7.871	3.585	.0679	.04995	45.50
#2	.0003	-61.50	8.772	3.673	.0559	-8.9713	38.68

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0010	-.0002	.0067	.1258	-.0001	.0003	-.0025
Stddev	.0018	.0003	.0021	.0055	.0001	.0003	.0000
%RSD	177.8	123.0	31.71	4.377	81.57	114.1	1.438

#1	-.0003	-.0004	.0052	.1219	.0000	.0005	-.0024
#2	.0023	.0000	.0082	.1297	-.0002	.0001	-.0025

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.47	-.0006	.0017	-.0007	.0116	6.400	.0004
Stddev	2.63	.0003	.0004	.0001	.0007	.424	.0001
%RSD	18.20	49.20	21.52	18.36	6.370	6.629	25.59

#1	16.33	-.0009	.0014	-.0007	.0121	6.100	.0003
#2	12.61	-.0004	.0019	-.0006	.0111	6.700	.0004

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0011	.0004	85.80	2.339	-23.22	421.9
Stddev	.000	.0002	.0003	1.91	.750	3.25	5.2
%RSD	1803.	17.17	77.25	2.225	32.06	13.97	1.241

#1	.0000	.0012	.0002	84.45	2.870	-20.93	418.2
#2	.0000	.0009	.0005	87.15	1.809	-25.52	425.6

Sample Name: BLK      Acquired: 11/11/2010 12:52:38      Type: Cal  
 Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	.0007	.0024	14.58	8.736	.2091	.0019
Stddev	.0001	.0001	.0001	.56	1.270	1.009	.0001
%RSD	37.18	7.646	5.309	3.817	14.53	482.7	6.426

#1	.0002	.0006	.0023	14.98	9.634	-.5045	.0018
#2	.0003	.0007	.0024	14.19	7.838	.9227	.0020

Elem	Tl1908	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S
Avg	-.0034	24.58	-.00717
Stddev	.0001	7.53	.00426
%RSD	2.876	30.64	59.413

#1	-.0035	19.25	-.00416
#2	-.0034	29.90	-.01018

*checked  
11/11/10*

*John  
11/11/10*

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5926.5	109080.	1449.5	1444.1
Stddev	.6	2.	8.1	.8
%RSD	.00956	.00209	.55708	.05329

#1	5926.9	109080.	1455.3	1443.6
#2	5926.1	109080.	1443.8	1444.7

Sample Name: STD A      Acquired: 11/11/2010 12:55:47      Type: Cal  
 Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-21-B

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Ca3933	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3613	512.1	57535.	3862.	13.49	2.679	14.48	.1294
Stddev	.0024	.2	299.	27.	.11	.019	.08	.0003
%RSD	.6624	.0369	.51884	.6911	.8204	.7134	.5676	.2259

#1	.3596	512.0	57746.	3881.	13.41	2.666	14.42	.1296
#2	.3630	512.3	57324.	3843.	13.57	2.693	14.54	.1292

Elem	Co2307	Cu2247	Cu3273	Pb2203	Mg2795	Mn2576	Mo2020	Ni2216
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7932	1.927	11430.	.7838	6.469	.6339	.6278	.9549
Stddev	.0050	.019	76.	.0071	.016	.0003	.0048	.0089
%RSD	.6329	1.008	.6663	.9031	.2539	.0494	.7645	.9293

#1	.7897	1.913	11480.	.7788	6.458	.6341	.6244	.9486
#2	.7968	1.941	11380.	.7888	6.481	.6337	.6312	.9612

Elem	Se1960	Ag3280	Sn1899	V_2924	Zn2062	Zn2138	Ti3361	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	409.2	15960.	.5775	.1335	3.549	12520.	.4540	.4419
Stddev	2.8	29.	.0054	.0000	.036	61.	.0006	.0026
%RSD	.6868	.1827	.9395	.0007	1.019	.4872	.1280	.5776

#1	407.2	15980.	.5737	.1335	3.524	12480.	.4536	.4401
#2	411.2	15940.	.5814	.1335	3.575	12570.	.4544	.4437

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5847.3	106630.	1406.7	1429.1
Stddev	17.4	584.	1.5	6.8
%RSD	.29774	.54756	.10786	.47777

#1	5859.6	107040.	1405.7	1434.0
#2	5835.0	106220.	1407.8	1424.3

Sample Name: STD B      Acquired: 11/11/2010 12:58:43      Type: Cal  
 Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-18-C

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 113200.	1484.	141.0	4.407	6.101	.9155
Stddev	598.	19.	.7	.048	.032	.0037
%RSD	.5279	1.259	.5278	1.097	.5283	.4016

#1	112800.	1498.	141.6	4.441	6.124	.9181
#2	113700.	1471.	140.5	4.373	6.079	.9129

Elem	Mg2852	Mn2605	K_7664	Na5895	P_2149	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 18730.	.0180	4207.	7363.	12330.	2246.
Stddev	7.	.0000	1.	48.	132.	17.
%RSD	.0376	.1575	.0274	.6489	1.069	.7523

#1	18730.	.0179	4206.	7397.	12420.	2258.
#2	18740.	.0180	4208.	7329.	12240.	2234.

Elem	Li6707	Sr4077
Units	Cts/S	Cts/S
Avg	8894.	30.626
Stddev	29.	.099
%RSD	.3298	.32362

#1	8873.	30.696
#2	8915.	30.555

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5753.8	102480.	1421.5	1402.1
Stddev	116.4	318.	8.1	31.4
%RSD	2.0238	.31053	.56762	2.2381

#1	5671.4	102260.	1415.8	1379.9
#2	5836.1	102710.	1427.2	1424.3

Sample Name: ICV1      Acquired: 11/11/2010 13:02:10      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-17-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.158	4.960	2.465	2.540	4.902	.12637	.0009	1.214
Stddev	.019	.019	.009	.006	.025	.00013	.0005	.006
%RSD	.4484	.3807	.3440	.2541	.5075	.10366	50.67	.4744

#1	4.145	4.974	2.459	2.535	4.919	.12646	.0012	1.210
#2	4.172	4.947	2.471	2.544	4.884	.12628	.0006	1.218

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.217	12.32	12.17	.5005	1.234	.6167	.6337	2.491
Stddev	.008	.11	.23	.0008	.008	.0041	.0000	.015
%RSD	.6327	.8685	1.869	.1512	.6448	.6600	.0070	.5993

#1	1.212	12.39	12.33	.5000	1.228	.6138	.6337	2.501
#2	1.223	12.24	12.01	.5010	1.239	.6196	.6336	2.480

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.461	12.38	12.00	12.46	1.234	1.212	1.971	1.223
Stddev	.014	.02	.07	.06	.001	.022	.014	.008
%RSD	.5612	.1673	.5594	.4429	.1172	1.858	.6927	.6791

#1	2.451	12.36	12.05	12.42	1.235	1.196	1.962	1.217
#2	2.471	12.39	11.96	12.50	1.233	1.228	1.981	1.229

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV1      Acquired: 11/11/2010 13:02:10      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :

Comment: 111110B ICP8-17-B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.37	2.451	.6256	12.72	.0013	1.261	1.225	1.230
Stddev	.15	.002	.0027	.11	.0002	.000	.007	.003
%RSD	1.209	.0681	.4260	.8710	16.91	.0294	.5525	.2632

#1	12.27	2.450	.6275	12.64	.0015	1.261	1.220	1.227
#2	12.48	2.452	.6238	12.80	.0011	1.261	1.229	1.232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0155	.0125	1.972	2.481	.0057	.00024
Stddev	.0018	.0021	.001	.006	.0013	.00015
%RSD	11.37	16.93	.0242	.2394	23.56	61.670

#1	-.0168	.0140	1.972	2.477	.0067	.00035
#2	-.0143	.0110	1.972	2.485	.0048	.00014

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5837.8	106640.	1427.8	1424.7
Stddev	23.4	231.	18.8	4.0
%RSD	.40026	.21708	1.3197	.28068

#1	5854.3	106800.	1414.5	1427.5
#2	5821.3	106480.	1441.1	1421.9

Sample Name: ICVB1      Acquired: 11/11/2010 13:05:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-F

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9871	.9874	.0001	.0020	.0022	-.00009	2.036	.0003
Stddev	.0034	.0015	.0002	.0021	.0006	.00000	.004	.0000
%RSD	.3418	.1504	400.0	107.0	28.40	1.7332	.2060	2.218
#1	.9847	.9864	-.0001	.0005	.0018	-.00009	2.039	.0003
#2	.9895	.9885	.0002	.0034	.0027	-.00009	2.033	.0003
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	4.999	4.971	.0008	.0001	.0065	-.0001	9.971
Stddev	.0000	.036	.040	.0004	.0001	.0004	.0010	.087
%RSD	4.333	.7190	.8056	55.36	35.52	5.659	1076.	.8693
#1	.0003	4.973	4.943	.0011	.0001	.0068	.0006	9.910
#2	.0003	5.024	5.000	.0005	.0002	.0063	-.0008	10.03
Check ?	None	None	Chk Pass	None	None	None	None	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	4.978	4.929	5.106	9.417	9.753	.0011	.0008
Stddev	.0004	.113	.042	.000	.009	.024	.0003	.0003
%RSD	122.1	2.278	.8549	.0044	.0945	.2415	27.57	30.83
#1	.0000	4.898	4.899	5.106	9.424	9.770	.0013	.0010
#2	-.0006	5.058	4.959	5.106	9.411	9.736	.0009	.0006
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None
Value Range								



Sample Name: ICVB1      Acquired: 11/11/2010 13:05:22      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-16-F

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0009	-0.0006	.0003	.1221	5.030	.0138	.0015	.0015
Stddev	.1098	.0006	.0001	.0305	.028	.0001	.0001	.0001
%RSD	12630.	88.46	32.96	24.95	.5623	.4919	3.593	3.784

#1	.0768	-.0010	.0004	.1437	5.010	.0139	.0015	.0016
#2	-.0785	-.0002	.0002	.1006	5.050	.0138	.0015	.0015

Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.212	5.225	.0008	.0073	1.942	1.9722
Stddev	.015	.024	.0002	.0019	.006	.0169
%RSD	.2781	.4579	20.75	26.81	.2868	.85707

#1	5.202	5.242	.0009	.0059	1.939	1.9602
#2	5.222	5.208	.0006	.0086	1.946	1.9841

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5777.2	108100.	1438.4	1411.4
Stddev	2.2	199.	11.3	3.3
%RSD	.03748	.18454	.78562	.23102

#1	5778.7	107960.	1446.4	1413.7
#2	5775.6	108240.	1430.4	1409.1

Sample Name: ICB      Acquired: 11/11/2010 13:10:11      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0028	-.0007	.0028	-.0004	.00005	.0025
Stddev	.0001	.0008	.0011	.0007	.0002	.00010	.0003
%RSD	33.52	29.58	147.6	23.85	38.84	179.54	13.76

#1	.0001	-.0022	-.0015	.0033	-.0005	.00012	.0022
#2	.0002	-.0033	.0000	.0024	-.0003	-.00001	.0027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-.0204	.0004	.0002	.0002	.0000
Stddev	.000	.0000	.0160	.0000	.0002	.0001	.0000
%RSD	20.80	93.05	78.74	10.61	120.3	75.82	257.7

#1	.0000	.0001	-.0090	.0004	.0000	.0001	.0000
#2	.0000	.0000	-.0317	.0005	.0003	.0003	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0093	-.0007	.0331	-.0001	-.0021	.0002
Stddev	.0007	.0050	.0012	.0588	.0002	.0051	.0000
%RSD	91.25	53.97	168.7	177.5	156.3	246.6	28.50

#1	-.0014	.0057	.0001	.0747	-.0002	.0015	.0001
#2	-.0003	.0128	-.0016	-.0084	.0000	-.0057	.0002

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

*Change  
11/11/10*

Sample Name: ICB      Acquired: 11/11/2010 13:10:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0003	.0001	F -.1213	-.0013	.0003	.0022
Stddev	.0006	.0002	.0001	.0927	.0014	.0003	.0833
%RSD	343.2	63.34	99.96	76.37	108.9	97.06	3756.
#1	.0006	-.0005	.0002	-.0558	-.0022	.0001	.0611
#2	-.0003	-.0002	.0000	-.1869	-.0003	.0006	-.0567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.1000			
Low Limit				-.1000			

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0001	.0001	.0001	-.0044	.0234	.0000
Stddev	.0001	.0001	.0001	.0000	.0037	.0083	.000
%RSD	5.320	135.9	79.71	22.08	85.13	35.54	703.7
#1	.0013	.0000	.0001	.0001	-.0018	.0292	.0000
#2	.0014	.0002	.0000	.0001	-.0070	.0175	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0017	.0039	F .00042
Stddev	.0007	.0035	.00030
%RSD	44.59	90.69	71.516
#1	.0011	.0014	.00063
#2	.0022	.0063	.00021
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.00020
Low Limit			-.00020

*Checked  
11/11/10*

Sample Name: ICB      Acquired: 11/11/2010 13:10:11      Type: QC  
Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      :      :      :  
Comment: 111110B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5902.5	109010.	1449.2	1439.9
Stddev	2.9	31.	8.8	4.0
%RSD	.04835	.02837	.60697	.27816
#1	5900.5	109030.	1443.0	1437.1
#2	5904.5	108990.	1455.5	1442.7

*curve*  
*11/11/10*

Sample Name: ICB      Acquired: 11/11/2010 13:13:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	-.0009	.0026	.0004	-.00001	.0016	.0000
Stddev	.0001	.0002	.0003	.0014	.0006	.00004	.0007	.000
%RSD	24.40	32.11	32.34	52.60	151.3	321.49	44.32	270.7
#1	.0003	.0009	-.0007	.0036	.0000	-.00004	.0011	.0000
#2	.0004	.0006	-.0011	.0016	.0008	.00002	.0022	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0158	.0003	.0004	.0000	.0000	-.0001	.0030
Stddev	.000	.0105	.0001	.0002	.0000	.001	.0002	.0106
%RSD	281.7	66.08	20.19	42.20	131.5	1229.	183.3	355.8
#1	.0000	-.0084	.0004	.0006	.0000	-.0004	-.0003	-.0045
#2	.0000	-.0232	.0003	.0003	.0000	.0003	.0000	.0105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0390	-.0003	.0019	.0001	.0015	-.0007	.0000
Stddev	.0010	.0114	.0001	.0009	.0000	.0007	.0002	.0002
%RSD	338.0	29.32	53.44	47.11	16.98	47.18	21.73	511.9
#1	-.0010	-.0470	-.0004	.0013	.0002	.0010	-.0006	.0002
#2	.0004	-.0309	-.0002	.0026	.0001	.0019	-.0008	-.0001
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB      Acquired: 11/11/2010 13:13:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B RERUN

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0050	-0.0031	-0.0001	.0302	.0009	.0000	.0001	.0000
Stddev	.1491	.0010	.0004	.0308	.0003	.000	.0002	.0001
%RSD	2997.	31.30	684.0	102.0	38.25	621.4	123.4	643.0
#1	-.1104	-.0024	-.0004	.0520	.0006	.0001	.0000	.0000
#2	.1005	-.0038	.0002	.0084	.0011	-.0001	.0003	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0024	.0229	.0000	.0004	.0024	.00010
Stddev	.0069	.0581	.0001	.0007	.0020	.00002
%RSD	293.3	253.7	137.8	156.9	84.25	21.650
#1	.0025	-.0182	.0001	.0000	.0010	.00008
#2	-.0072	.0639	.0000	.0009	.0038	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5921.2	109090.	1427.8	1446.5
Stddev	8.9	12.	11.0	2.1
%RSD	.14956	.01120	.76861	.14387
#1	5927.4	109100.	1435.6	1448.0
#2	5914.9	109080.	1420.0	1445.0

Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2489	.2350	.2484	.2572	.2418	.24982	.2522	.2474
Stddev	.0036	.0032	.0021	.0018	.0012	.00103	.0016	.0036
%RSD	1.452	1.356	.8258	.7044	.5089	.41087	.6251	1.465
#1	.2462	.2397	.2459	.2558	.2412	.25063	.2503	.2447
#2	.2471	.2345	.2496	.2559	.2425	.24875	.2522	.2463
#3	.2481	.2331	.2476	.2573	.2432	.24913	.2520	.2459
#4	.2542	.2328	.2504	.2597	.2404	.25076	.2541	.2527

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2491	.2342	.2494	.2450	.2473	.2459	.2516	.2489
Stddev	.0037	.0072	.0013	.0009	.0039	.0038	.0013	.0085
%RSD	1.478	3.071	.5173	.3723	1.576	1.554	.5152	3.433
#1	.2464	.2332	.2500	.2441	.2439	.2432	.2527	.2474
#2	.2477	.2313	.2509	.2454	.2466	.2449	.2508	.2407
#3	.2478	.2445	.2487	.2444	.2459	.2439	.2502	.2609
#4	.2545	.2280	.2480	.2461	.2529	.2515	.2527	.2465

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	.2794	.2449	.2546	.2421	.2419	.2475	.2496
Stddev	.0039	.0357	.0012	.0042	.0011	.0031	.0039	.0039
%RSD	1.562	12.77	.4772	1.653	.4355	1.278	1.557	1.570

#1	.2446	.3133	.2447	.2599	.2418	.2377	.2443	.2467
#2	.2469	.2523	.2464	.2544	.2418	.2430	.2462	.2480
#3	.2470	.3069	.2451	.2547	.2413	.2451	.2464	.2486
#4	.2536	.2450	.2435	.2496	.2437	.2419	.2531	.2554

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319	.2456	.2492	.2985	.2466	.2439	.2491	.2489
Stddev	.081	.0022	.0006	.0473	.0031	.0015	.0037	.0015
%RSD	3.503	.8891	.2372	15.84	1.264	.6024	1.491	.5873

#1	2.319	.2441	.2492	.2325	.2441	.2428	.2462	.2480
#2	2.426	.2441	.2487	.3060	.2456	.2444	.2482	.2484
#3	2.230	.2455	.2488	.3448	.2457	.2427	.2474	.2482
#4	2.299	.2487	.2500	.3107	.2512	.2458	.2545	.2511

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								



Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0091	.1506	.2462	.2473	.0028	.00013
Stddev	.0019	.0249	.0007	.0038	.0026	.00037
%RSD	20.92	16.56	.2984	1.521	91.28	283.75

#1	-0.0064	.1839	.2457	.2445	.0032	.00057
#2	-0.0099	.1546	.2462	.2474	.0058	-.00016
#3	-0.0093	.1273	.2456	.2447	.0027	.00031
#4	-0.0109	.1365	.2472	.2526	-.0004	-.00019

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5873.8	108970.	1441.3	1442.0
Stddev	54.7	396.	7.4	13.2
%RSD	.93051	.36353	.51610	.91213

#1	5923.0	109550.	1441.8	1453.6
#2	5888.2	108690.	1432.3	1443.2
#3	5888.5	108730.	1440.8	1447.8
#4	5795.6	108890.	1450.5	1423.3

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>6.946</b>	<b>9.760</b>	<b>-0.018</b>	<b>1.020</b>	<b>9.723</b>	<b>.00002</b>	<b>.0020</b>	<b>.0000</b>
Stddev	.065	.022	.0010	.003	.060	.00002	.0007	.0000
%RSD	.9378	.2242	53.06	.2672	.6181	94.497	32.74	77.82

#1	6.908	9.739	-0.022	1.018	9.725	.00005	.0026	.0000
#2	6.907	9.765	-0.012	1.018	9.661	.00002	.0012	.0001
#3	6.926	9.749	-0.009	1.020	9.703	.00003	.0018	.0000
#4	7.043	9.789	-0.030	1.024	9.804	.00000	.0024	.0000

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0001</b>	<b>9.596</b>	<b>9.523</b>	<b>.0005</b>	<b>.0001</b>	<b>.0065</b>	<b>-.0003</b>	<b>9.798</b>
Stddev	.0001	.040	.073	.0002	.0002	.0003	.0006	.073
%RSD	67.82	.4180	.7716	51.74	174.2	4.336	169.8	.7420

#1	.0001	9.592	9.443	.0008	.0000	.0062	.0000	9.747
#2	.0002	9.548	9.494	.0005	.0002	.0068	-.0007	9.752
#3	.0000	9.597	9.537	.0002	.0002	.0064	-.0009	9.790
#4	.0001	9.646	9.616	.0004	-.0001	.0066	.0003	9.903

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0008	9.643	9.493	10.07	.9858	.9603	-0.0005	-0.0002
Stddev	.0010	.075	.056	.01	.0033	.0076	.0002	.0001
%RSD	117.5	.7801	.5896	.1216	.3374	.7939	51.58	62.21

#1	-0.0009	9.641	9.479	10.07	.9854	.9657	-0.0005	-0.0004
#2	.0001	9.540	9.427	10.05	.9906	.9594	-0.0003	-0.0003
#3	-0.0022	9.678	9.506	10.08	.9830	.9662	-0.0003	-0.0002
#4	-0.0004	9.715	9.561	10.07	.9843	.9498	-0.0008	.0000

Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.834	-0.0029	.0003	10.07	.0005	.0016	.0001	.0003
Stddev	.130	.0014	.0003	.09	.0005	.0004	.0001	.0001
%RSD	1.323	48.74	115.6	.8885	91.31	23.21	47.32	29.20

#1	9.642	-0.0049	-0.0001	10.13	.0003	.0018	.0002	.0002
#2	9.926	-0.0024	.0001	10.14	.0009	.0017	.0002	.0004
#3	9.871	-0.0016	.0006	9.947	.0000	.0011	.0001	.0003
#4	9.897	-0.0026	.0004	10.06	.0009	.0019	.0001	.0002

Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value Range								

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.21	10.24	.0004	.0016	.9686	.96224
Stddev	.03	.05	.0001	.0012	.0045	.00699
%RSD	.2560	.4500	33.05	74.08	.4604	.72649

#1	10.18	10.28	.0004	.0016	.9683	.96291
#2	10.21	10.19	.0006	.0010	.9691	.95330
#3	10.19	10.21	.0004	.0005	.9739	.96238
#4	10.24	10.28	.0002	.0032	.9630	.97037

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5849.3	107670.	1467.9	1431.5
Stddev	47.9	491.	9.7	13.4
%RSD	.81918	.45603	.66388	.93726

#1	5866.5	107290.	1468.7	1438.3
#2	5883.8	107240.	1477.7	1441.1
#3	5868.3	107890.	1470.7	1434.9
#4	5778.3	108260.	1454.4	1411.7

Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0025	-.0025	.0003	-.0008	.00003	.0009
Stddev	.0002	.0043	.0008	.0013	.0011	.00006	.0007
%RSD	56.54	170.8	34.26	372.4	125.8	185.97	82.65
#1	.0002	.0056	-.0019	.0013	-.0001	-.00001	.0014
#2	.0004	-.0005	-.0031	-.0006	-.0016	.00008	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	-.0071	.0007	.0004	-.0003	.0002
Stddev	.000	.0000	.0165	.0000	.0002	.0003	.0002
%RSD	148.9	43.97	230.6	5.475	43.04	103.0	94.55
#1	.0000	.0001	-.0188	.0007	.0003	-.0005	.0001
#2	-.0001	.0001	.0045	.0006	.0006	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0041	-.0005	.0041	.0000	.0017	.0001
Stddev	.0012	.0089	.0004	.0445	.000	.0051	.0000
%RSD	2351.	217.1	85.30	1084.	242.2	293.6	8.463
#1	-.0008	.0104	-.0008	.0356	.0000	.0053	.0001
#2	.0009	-.0022	-.0002	-.0274	-.0001	-.0019	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	-0.0007	.0001	-0.0411	-0.0019	.0005	-0.0598
Stddev	.0001	.0001	.0002	.1210	.0027	.0007	.0509
%RSD	137.9	14.45	123.5	294.1	140.4	130.8	85.05
#1	-0.0001	-0.0006	.0000	.0444	-0.0038	.0010	-0.0958
#2	.0000	-0.0008	.0003	-.1267	.0000	.0000	-.0238

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0003	.0001	-0.0001	.0001	-0.0084	-0.0078	.0000
Stddev	.0005	.0004	.0001	.0000	.0028	.0093	.0002
%RSD	158.1	794.9	117.2	32.94	33.70	119.0	669.4
#1	-0.0007	-0.0002	.0000	.0001	-0.0105	-0.0144	-0.0001
#2	.0000	.0003	-0.0002	.0001	-0.0064	-0.0012	.0002

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000	.0028	F .00023
Stddev	.000	.0000	.00006
%RSD	1554.	1.426	24.737
#1	.0003	.0028	.00027
#2	-0.0003	.0028	.00019

Check ?      Chk Pass    Chk Pass    Chk Fail  
 High Limit      .00020  
 Low Limit      -0.00020

Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      :      :  
Comment: 111110B

Int. Std.	Y_2243	Y_3600	Y_3600-2	ln2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5948.2	108320.	1421.5	1447.1
Stddev	9.5	399.	5.3	3.0
%RSD	.15912	.36854	.37234	.20748
#1	5941.5	108040.	1425.2	1445.0
#2	5954.8	108600.	1417.7	1449.2

Sample Name: CRI      Acquired: 11/11/2010 13:29:17      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504	.0460	.0486	.1022	.0047	.00521	.0494	.0048
Stddev	.0003	.0007	.0020	.0005	.0005	.00007	.0013	.0000
%RSD	.5076	1.594	4.088	.4411	10.40	1.2994	2.630	.0206

#1	.0502	.0455	.0472	.1018	.0044	.00516	.0503	.0048
#2	.0506	.0465	.0500	.1025	.0051	.00525	.0485	.0048

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0505	.0517	.0054	.0097	.0099	.0101	.0285
Stddev	.0000	.0042	.0000	.0000	.0000	.0001	.0006	.0041
%RSD	.0950	8.373	.0274	.0268	.2393	1.240	5.528	14.32

#1	.0049	.0535	.0517	.0054	.0098	.0099	.0105	.0314
#2	.0048	.0475	.0517	.0054	.0097	.0098	.0097	.0256

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0495	.0362	.0202	.0224	.0051	.0061	.0091	.0200
Stddev	.0001	.0206	.0001	.0028	.0000	.0009	.0003	.0002
%RSD	.1156	56.83	.4549	12.30	.9575	14.66	3.667	.9776

#1	.0495	.0508	.0203	.0244	.0051	.0067	.0089	.0198
#2	.0495	.0217	.0201	.0205	.0051	.0054	.0094	.0201

Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								



Sample Name: CRI      Acquired: 11/11/2010 13:29:17      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B ICP8-16-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3510	.0952	.0097	.1439	.0497	.0100	.0103	.0104
Stddev	.0849	.0000	.0000	.0442	.0003	.0004	.0000	.0001
%RSD	24.20	.0100	.2284	30.73	.5932	3.856	.1568	.7161
#1	.4111	.0952	.0097	.1751	.0499	.0097	.0103	.0103
#2	.2910	.0952	.0097	.1126	.0495	.0102	.0103	.0104

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1916	.4293	.0098	.1974	.0150	.01018
Stddev	.0016	.0062	.0001	.0002	.0005	.00016
%RSD	.8471	1.442	1.482	.0900	3.451	1.5585
#1	.1904	.4337	.0097	.1972	.0147	.01030
#2	.1927	.4249	.0099	.1975	.0154	.01007

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5871.6	106990.	1393.2	1435.2
Stddev	22.8	143.	9.2	5.0
%RSD	.38847	.13363	.66157	.34954
#1	5887.8	106880.	1386.7	1438.8
#2	5855.5	107090.	1399.7	1431.7

Sample Name: CRI      Acquired: 11/11/2010 13:32:23      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICAP ICP8-11-A 0.1/10

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0006	.0095	.0119	.0019	.00021	.0099	.0004
Stddev	.0001	.0026	.0020	.0002	.0008	.00002	.0002	.0000
%RSD	5.701	441.7	21.05	1.987	43.51	7.2142	2.042	2.739

#1	.0018	-.0012	.0109	.0117	.0013	.00020	.0100	.0004
#2	.0020	.0024	.0081	.0121	.0025	.00022	.0098	.0005

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0017	.0046	.0021	.0009	.0021	.0021	.0075
Stddev	.0000	.0067	.0001	.0000	.0001	.0000	.0007	.0019
%RSD	1.081	386.6	2.792	.3078	5.717	.3485	31.09	25.34

#1	.0005	-.0064	.0045	.0021	.0010	.0021	.0026	.0061
#2	.0005	.0030	.0047	.0021	.0009	.0021	.0016	.0088

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	.0153	.0015	.0036	.0005	.0026	.0011	.0021
Stddev	.0002	.0312	.0002	.0050	.0000	.0009	.0000	.0000
%RSD	1.839	204.2	13.85	139.2	7.648	34.55	2.030	.9638

#1	.0087	-.0068	.0016	.0071	.0005	.0020	.0011	.0021
#2	.0089	.0374	.0014	.0001	.0006	.0033	.0011	.0021

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI      Acquired: 11/11/2010 13:32:23      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICAP ICP8-11-A 0.1/10

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0197	.0169	.0022	.1815	.0096	.0022	.0019	.0020
Stddev	.0202	.0006	.0004	.0282	.0011	.0003	.0001	.0000
%RSD	103.0	3.537	20.20	15.51	11.73	11.20	6.431	1.846
#1	.0053	.0164	.0025	.1616	.0088	.0021	.0020	.0020
#2	.0340	.0173	.0019	.2014	.0104	.0024	.0018	.0021

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.1000							
Range	-50.00%							

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133	.0511	.0010	.0095	.0143	.00039
Stddev	.0018	.0093	.0000	.0002	.0000	.00021
%RSD	13.84	18.27	.0713	2.004	.3350	54.297
#1	.0120	.0577	.0010	.0097	.0143	.00024
#2	.0146	.0445	.0010	.0094	.0142	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5975.1	108580.	1431.0	1455.8
Stddev	27.2	260.	14.1	5.3
%RSD	.45551	.23981	.98482	.36139
#1	5994.4	108760.	1421.0	1459.5
#2	5955.9	108390.	1440.9	1452.1

*\* use 0.2 ppm K  
mwwc  
11/11/10*

Sample Name: ICSA      Acquired: 11/11/2010 13:34:56      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-12-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.85	471.0	.0079	-.0013	.0026	-.00027	.0064	.0005
Stddev	.05	.3	.0034	.0024	.0002	.00002	.0006	.0001
%RSD	.2938	.0636	43.03	178.7	5.814	8.6134	9.836	19.31
#1	15.82	470.8	.0103	-.0030	.0025	-.00025	.0060	.0005
#2	15.88	471.2	.0055	.0004	.0027	-.00029	.0069	.0006
Check ?	None	Chk Pass	None	None	None	None	None	None
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	464.9	*****	.0062	-.0040	.1158	-.0018	184.3
Stddev	.0000	.9	----	.0005	.0006	.0022	.0006	.3
%RSD	1.328	.1998	----	7.531	14.25	1.863	33.63	.1819
#1	.0016	465.5	----	.0066	-.0036	.1142	-.0023	184.5
#2	.0016	464.2	----	.0059	-.0044	.1173	-.0014	184.1
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	482.5	200.1	309.1	-.0027	-.0032	-.0009	.0010
Stddev	.0012	2.1	1.2	2.4	.0000	.0021	.0006	.0000
%RSD	66.35	.4272	.6194	.7685	1.815	63.79	66.70	2.888
#1	-.0027	484.0	200.9	307.4	-.0027	-.0018	-.0005	.0011
#2	-.0010	481.1	199.2	310.8	-.0026	-.0047	-.0013	.0010
Check ?	None	Chk Pass	None	None	None	None	None	None
Value Range								

Sample Name: ICSA      Acquired: 11/11/2010 13:34:56      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

Jser: admin      :      :      :

Comment: 111110B ICP8-12-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0428	-.0171	-.0005	-.5233	.0007	.0010	.0040	.0047
Stddev	.0222	.0043	.0004	.0575	.0000	.0004	.0000	.0001
%RSD	51.85	25.03	88.03	10.99	.8965	36.74	.9358	3.186

#1	-.0585	-.0202	-.0002	-.4826	.0007	.0008	.0041	.0048
#2	-.0271	-.0141	-.0007	-.5639	.0007	.0013	.0040	.0046

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0415	.0007	-.0025	.0063	.02645
Stddev	.0056	.0023	.0001	.0007	.0029	.00015
%RSD	40.43	5.507	20.48	28.66	46.75	.57842

#1	.0098	.0431	.0006	-.0020	.0083	.02655
#2	.0177	.0399	.0008	-.0030	.0042	.02634

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5296.9	96203.	1360.5	1257.6
Stddev	19.7	27.	8.8	6.8
%RSD	.37180	.02780	.64868	.53885

#1	5310.9	96184.	1354.3	1262.3
#2	5283.0	96222.	1366.7	1252.8

Sample Name: ICSAB      Acquired: 11/11/2010 13:38:24      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-E

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.14	473.6	.9311	.0003	.4904	.46991	.0048	.9317
Stddev	.05	1.2	.0006	.0004	.0012	.00182	.0003	.0001
%RSD	.2810	.2479	.0631	104.4	.2432	.38772	6.521	.0086
#1	16.11	472.8	.9315	.0006	.4895	.46862	.0051	.9317
#2	16.17	474.4	.9306	.0001	.4912	.47120	.0046	.9316
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9227	465.4	*****	.4907	.4618	.5859	.4738	184.0
Stddev	.0095	1.8	----	.0027	.0033	.0006	.0044	.1
%RSD	1.032	.3873	----	.5511	.7224	.1089	.9339	.0460
#1	.9160	464.1	----	.4926	.4594	.5854	.4706	184.1
#2	.9294	466.7	----	.4888	.4641	.5863	.4769	184.0
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9567	486.3	200.7	305.3	.4655	.4808	-.0012	.9050
Stddev	.0029	4.9	1.7	3.2	.0024	.0049	.0000	.0100
%RSD	.2981	.9996	.8718	1.058	.5092	1.027	3.961	1.110
#1	.9547	482.8	199.4	307.5	.4671	.4843	-.0011	.8979
#2	.9587	489.7	201.9	303.0	.4638	.4773	-.0012	.9121
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Sample Name: ICSAB      Acquired: 11/11/2010 13:38:24      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-E

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0386	-.0154	.9378	-.5989	.0027	.5027	.9393	.8838
Stddev	.0014	.0009	.0038	.0319	.0004	.0025	.0045	.0023
%RSD	3.551	5.611	.4030	5.328	14.32	.4889	.4771	.2602
#1	.0377	-.0160	.9352	-.5764	.0029	.5044	.9361	.8821
#2	.0396	-.0148	.9405	-.6215	.0024	.5009	.9425	.8854
Check ?	None	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147	.0268	.0006	.0032	.0111	.02676
Stddev	.0000	.0014	.0001	.0005	.0028	.00045
%RSD	.0813	5.051	11.92	17.06	25.21	1.6749
#1	.0147	.0278	.0006	.0036	.0131	.02644
#2	.0147	.0259	.0005	.0028	.0091	.02708
Check ?	None	None	None	None	None	None
Value Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5189.0	95651.	1368.1	1240.4
Stddev	36.7	534.	12.0	1.3
%RSD	.70666	.55776	.87700	.10567
#1	5214.9	95274.	1376.6	1239.4
#2	5163.0	96028.	1359.6	1241.3

Sample Name: RB      Acquired: 11/11/2010 13:42:44      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464	.0467	.0009	.0017	F -.0007	.00005	F -.0015	.0001

#1	.0464	.0467	.0013	.0018	-.0003	.00007	-.0021	.0001
#2	.0464	.0466	.0005	.0016	-.0010	.00003	-.0009	.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0328	.0520	F .0001	-.0001	-.0003	.0003	.0202

#1	.0001	.0239	.0521	.0000	.0001	-.0003	.0007	.0211
#2	.0002	.0418	.0518	.0002	-.0003	-.0003	.0000	.0194

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0635	.0748	-.0001	-.0009	.0003	F -.1252	-.0025

#1	-.0001	.0631	.0763	-.0001	-.0010	.0006	-.1165	-.0027
#2	-.0005	.0638	.0733	-.0001	-.0008	.0001	-.1339	-.0023

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F -.0201	.0006	.0004	F .0003	F .0001	-.0089	-.0040

#1	.0000	-.0443	.0008	.0006	.0002	.0001	-.0108	.0042
#2	.0001	.0041	.0003	.0002	.0004	.0001	-.0069	-.0121

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0016	.0008	.00032

#1	.0001	.0021	-.0018	.00008
#2	.0001	.0012	.0035	.00056

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5971.7	109760.	1455.2	1455.5

#1	6004.9	109620.	1459.4	1463.7
#2	5938.5	109910.	1451.0	1447.2



Sample Name: K1010892-MB      Acquired: 11/11/2010 13:45:53      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0042	.0019	-.0016	.0002	-.0011	-.00002	-.0004	.0000

#1	.0042	.0001	-.0002	-.0004	-.0010	-.00002	-.0012	.0000
#2	.0042	.0037	-.0029	.0007	-.0012	-.00003	.0005	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	F .0068	.0004	.0001	.0000	.0000	-.0010

#1	.0000	.0022	.0065	.0005	.0000	-.0001	-.0002	-.0020
#2	.0000	-.0014	.0071	.0002	.0002	.0000	.0001	.0001

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	F .0041	F .0106	-.0001	-.0009	.0000	F -.1041	-.0011

#1	.0000	.0039	.0154	.0000	-.0008	-.0001	-.1623	-.0013
#2	-.0008	.0042	.0059	-.0001	-.0009	.0001	-.0459	-.0008

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.1789	-.0001	.0002	.0003	.0002	F .1066	-.0131

#1	.0002	-.1677	-.0001	.0007	.0001	.0002	.1060	-.0085
#2	.0000	-.1901	-.0001	-.0002	.0004	.0002	.1072	-.0177

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0001	-.0002	.0018	.00012

#1	-.0001	-.0005	.0048	.00002
#2	-.0002	.0001	-.0012	.00022

*Review  
11/11/10*

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5852.0	109020.	1448.8	1426.9

#1	5883.4	109070.	1450.1	1433.0
#2	5820.7	108970.	1447.5	1420.7

Sample Name: LCSW      Acquired: 11/11/2010 13:48:33      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.706	2.363	2.424	4.616	.12012	.9489	1.160	1.170

#1	4.695	2.354	2.414	4.651	.11953	.9445	1.155	1.164
#2	4.717	2.372	2.434	4.580	.12072	.9533	1.165	1.176

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.58	11.28	.4737	1.175	.5855	.6076	2.356	2.376

#1	11.68	11.45	.4738	1.168	.5824	.6074	2.374	2.366
#2	11.48	11.12	.4735	1.181	.5885	.6079	2.337	2.385

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.53	1.162	.9420	1.168	11.63	2.291	.5950	12.67

#1	11.51	1.162	.9362	1.161	11.56	2.282	.5937	12.59
#2	11.54	1.162	.9478	1.175	11.70	2.301	.5963	12.75

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	1.187	1.172	1.158	.1342	-.0028	-.0003	2.372

#1	.0002	1.187	1.166	1.155	.1334	.0094	-.0003	2.360
#2	.0005	1.186	1.178	1.161	.1350	-.0151	-.0002	2.384

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0012	.00060

#1	.0013	.00064
#2	.0011	.00056

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5844.5	107760.	1441.8	1426.3

#1	5858.8	107550.	1426.3	1428.3
#2	5830.1	107980.	1457.3	1424.4

Sample Name: LCSW      Acquired: 11/11/2010 13:51:42      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	F .0006	-.0009	.0010	F .0006	.00000	F .0007	.0000

#1	.0016	.0005	-.0001	.0018	.0009	-.00003	.0003	.0000
#2	.0016	.0006	-.0016	.0002	.0003	.00003	.0011	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F .0027	.0051	F .0005	.0002	.0002	.0003	F -.0008

#1	.0002	.0122	.0056	.0005	.0000	.0003	.0008	-.0037
#2	.0001	-.0068	.0047	.0005	.0005	.0000	-.0002	.0022

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0021	F .0065	-.0001	-.0002	-.0003	F -.1312	-.0036

#1	-.0006	.0026	.0076	-.0001	-.0001	-.0003	-.1247	-.0028
#2	-.0013	.0015	.0053	.0000	-.0003	-.0004	-.1376	-.0043

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	F 16.77	.0002	.0005	F .0005	F .0005	.1306	9.949

#1	-.0007	16.78	-.0002	.0001	.0005	.0005	.1299	9.899
#2	-.0002	16.76	.0006	.0010	.0004	.0005	.1313	9.998

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0007	.0035	.00001

#1	.0001	.0015	.0059	-.00012
#2	.0000	-.0001	.0010	.00013

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.4	107450.	1418.5	1430.7

#1	5829.0	107470.	1407.1	1433.7
#2	5779.7	107440.	1429.9	1427.8

Sample Name: K1010892-001      Acquired: 11/11/2010 13:55:01      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	F .0014	-.0023	.0010	.0341	.00005	F .0039	.0000

#1	.0013	-.0001	-.0019	.0003	.0344	.00003	.0044	.0000
#2	.0013	.0029	-.0027	.0017	.0338	.00007	.0035	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.075	5.060	F .0008	.0036	.0027	.0007	3.341

#1	.0001	5.072	5.062	.0005	.0038	.0023	.0000	3.341
#2	.0000	5.078	5.058	.0010	.0035	.0030	.0013	3.341

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	2.391	2.386	.3536	-.0008	.0009	1.054	-.0014

#1	-.0006	2.393	2.383	.3525	-.0008	.0009	1.074	-.0018
#2	-.0014	2.389	2.390	.3548	-.0008	.0009	1.034	-.0011

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	7.161	.0002	.0006	.0118	.0117	.1565	4.466

#1	.0006	7.170	.0002	.0007	.0118	.0118	.1589	4.511
#2	.0001	7.151	.0003	.0006	.0118	.0117	.1541	4.421

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0001	.0014	-.0001	.03963

#1	-.0001	.0006	-.0013	.03941
#2	-.0001	.0021	.0011	.03986

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5806.1	107510.	1429.1	1433.1

#1	5820.6	107340.	1435.9	1440.5
#2	5791.5	107690.	1422.3	1425.6

Sample Name: K1010892-001D      Acquired: 11/11/2010 13:58:07      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	F -.0005	-.0033	.0025	.0334	-.00001	F .0031	.0000

#1	.0014	-.0015	-.0030	.0022	.0329	-.00002	.0042	.0000
#2	.0011	.0004	-.0036	.0028	.0339	-.00001	.0020	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.102	5.057	F .0007	.0034	.0029	.0009	3.352

#1	.0001	5.093	5.048	.0007	.0033	.0032	.0010	3.341
#2	.0001	5.112	5.066	.0007	.0035	.0025	.0009	3.363

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	2.393	2.420	.3525	-.0007	.0006	1.098	-.0015

#1	-.0013	2.386	2.430	.3516	-.0009	.0007	1.037	-.0023
#2	-.0011	2.400	2.409	.3534	-.0005	.0005	1.160	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	7.286	.0005	.0005	.0120	.0120	.1572	4.524

#1	-.0005	7.281	-.0001	.0005	.0120	.0119	.1590	4.530
#2	-.0002	7.291	.0010	.0006	.0119	.0120	.1555	4.519

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0007	.0070	.03965

#1	.0000	.0011	.0066	.03972
#2	-.0001	.0003	.0073	.03958

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5884.1	109870.	1443.2	1451.5

#1	5902.7	109890.	1449.8	1456.0
#2	5865.5	109860.	1436.6	1447.0

Sample Name: CCVA2      Acquired: 11/11/2010 14:01:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2456	.2378	.2492	.2577	.2394	.25284	.2504	.2449
Stddev	.0011	.0030	.0002	.0018	.0009	.00052	.0032	.0004
%RSD	.4319	1.268	.0887	.6888	.3754	.20397	1.290	.1618
#1	.2448	.2357	.2491	.2565	.2400	.25248	.2481	.2446
#2	.2463	.2400	.2494	.2590	.2387	.25321	.2527	.2452
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469	.2334	.2449	.2415	.2441	.2433	.2547	.2510
Stddev	.0012	.0075	.0006	.0005	.0018	.0005	.0002	.0065
%RSD	.4827	3.201	.2282	.1953	.7247	.1931	.0692	2.587
#1	.2460	.2386	.2445	.2412	.2429	.2436	.2546	.2556
#2	.2477	.2281	.2453	.2418	.2454	.2430	.2548	.2464
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2449	.1959	.2434	.2476	.2389	.2382	.2443	.2474
Stddev	.0002	.0799	.0004	.0039	.0000	.0002	.0016	.0011
%RSD	.0718	40.80	.1464	1.585	.0140	.0786	.6509	.4420
#1	.2448	.2524	.2431	.2504	.2390	.2384	.2432	.2466
#2	.2451	.1393	.2436	.2448	.2389	.2381	.2454	.2481
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA2      Acquired: 11/11/2010 14:01:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.251	.2457	.2477	.1492	.2429	.2402	.2480	.2497
Stddev	.098	.0004	.0014	.0500	.0008	.0004	.0003	.0015
%RSD	4.368	.1685	.5750	33.51	.3321	.1707	.1051	.5983
#1	2.181	.2460	.2467	.1138	.2423	.2399	.2482	.2486
#2	2.320	.2455	.2487	.1845	.2435	.2405	.2478	.2507

Check ?      None   Chk Pass   Chk Pass      None   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0082	.1247	.2433	.2431	.0015	.00016
Stddev	.0004	.0221	.0007	.0012	.0010	.00017
%RSD	5.098	17.71	.2676	.5004	68.52	106.27
#1	-.0079	.1091	.2429	.2440	.0007	.00029
#2	-.0085	.1404	.2438	.2423	.0022	.00004

Check ?      None      None   Chk Pass   Chk Pass      None      None  
 Value  
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5957.2	111250.	1453.3	1459.2
Stddev	1.0	451.	7.6	5.5
%RSD	.01637	.40507	.52621	.37453
#1	5957.9	110930.	1447.9	1455.3
#2	5956.6	111570.	1458.7	1463.0

Sample Name: CCVB2      Acquired: 11/11/2010 14:04:10      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.985	9.791	-0.0025	1.021	9.798	.00002	.0009	.0000
Stddev	.033	.003	.0013	.000	.007	.00005	.0004	.0000
%RSD	.4656	.0346	51.40	.0031	.0770	217.80	39.19	172.3
#1	6.962	9.794	-0.0034	1.021	9.803	.00006	.0012	.0000
#2	7.008	9.789	-0.0016	1.021	9.793	-0.00001	.0007	.0000
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.719	9.791	.0004	.0002	.0058	.0002	10.02
Stddev	.0000	.044	.139	.0000	.0003	.0003	.0007	.04
%RSD	19.54	.4535	1.424	.8248	105.7	5.684	280.4	.3944
#1	.0001	9.750	9.693	.0004	.0001	.0061	.0007	9.996
#2	.0001	9.688	9.890	.0004	.0004	.0056	-.0002	10.05
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	9.780	9.656	9.727	1.002	.9381	-.0006	-.0002
Stddev	.0009	.072	.004	.018	.002	.0034	.0001	.0002
%RSD	1541.	.7332	.0442	.1831	.2200	.3636	15.43	70.06
#1	.0006	9.729	9.653	9.715	1.004	.9405	-.0006	-.0003
#2	-.0007	9.830	9.659	9.740	1.001	.9357	-.0007	-.0001
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								



Sample Name: CCVB2      Acquired: 11/11/2010 14:04:10      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.660	-0.0012	-0.0004	9.705	.0000	.0013	.0002	.0003
Stddev	.025	.0003	.0008	.020	.000	.0001	.0001	.0001
%RSD	.2554	23.09	221.8	.2074	391.7	10.75	77.56	17.38
#1	9.642	-0.0014	.0002	9.720	.0001	.0014	.0003	.0003
#2	9.677	-0.0010	-0.0009	9.691	-0.0002	.0012	.0001	.0003
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.23	10.23	.0004	.0022	.9445	.96534
Stddev	.01	.06	.0000	.0015	.0021	.00112
%RSD	.1438	.5868	5.669	68.42	.2205	.11640
#1	10.22	10.18	.0004	.0011	.9459	.96614
#2	10.24	10.27	.0004	.0032	.9430	.96455
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5823.5	107720.	1424.8	1426.3
Stddev	19.6	22.	1.7	.9
%RSD	.33708	.02037	.12246	.06487
#1	5837.4	107710.	1423.6	1426.9
#2	5809.6	107740.	1426.0	1425.6

Sample Name: CCB2      Acquired: 11/11/2010 14:08:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0015	-.0024	.0024	-.0003	.00004	.0002	.0000
Stddev	.0000	.0021	.0010	.0002	.0004	.00000	.0014	.000
%RSD	32.65	138.3	43.03	8.938	132.1	3.4775	882.7	1133.
#1	.0001	.0000	-.0031	.0025	-.0007	.00004	.0012	.0000
#2	.0002	.0030	-.0016	.0022	.0000	.00004	-.0008	.0000

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0041	.0007	.0001	.0001	-.0001	-.0009	.0083
Stddev	.0000	.0044	.0002	.0001	.0000	.0005	.0004	.0031
%RSD	37.48	109.3	25.40	142.0	4.996	634.1	46.38	36.57
#1	.0001	.0009	.0008	.0000	.0001	-.0004	-.0012	.0062
#2	.0001	.0072	.0005	.0001	.0001	.0003	-.0006	.0105

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0269	.0001	.0007	-.0001	-.0016	-.0007	.0002
Stddev	.0006	.0506	.0002	.0017	.0001	.0007	.0004	.0002
%RSD	119.3	187.8	255.0	254.5	67.81	45.73	57.84	84.28
#1	-.0001	.0088	.0002	.0019	-.0001	-.0011	-.0010	.0003
#2	-.0009	-.0627	-.0001	-.0005	.0000	-.0021	-.0004	.0001

Check ?      Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Sample Name: CCB2      Acquired: 11/11/2010 14:08:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0056	-.0019	.0003	F -.2064	.0004	-.0001	.0001	.0000
Stddev	.0161	.0011	.0000	.0613	.0003	.0005	.0000	.0000
%RSD	289.0	60.06	5.176	29.68	56.75	403.9	54.67	253.2
#1	-.0170	-.0027	.0004	-.2497	.0003	.0002	.0000	.0000
#2	.0058	-.0011	.0003	-.1631	.0006	-.0005	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.2000				
Low Limit				-.2000				

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	-.0061	.0000	.0011	.0015	-.00006
Stddev	.0002	.0184	.0002	.0001	.0009	.00014
%RSD	7.626	302.9	864.9	7.966	64.13	217.51
#1	-.0029	.0069	-.0001	.0011	.0008	-.00016
#2	-.0032	-.0191	.0002	.0012	.0021	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5873.2	108390.	1400.1	1431.5
Stddev	4.1	188.	2.0	4.2
%RSD	.07020	.17315	.14545	.29099
#1	5870.3	108520.	1398.7	1428.5
#2	5876.1	108260.	1401.6	1434.4

Sample Name: CRI      Acquired: 11/11/2010 14:13:28      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: ICAP RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0010	.0076	.0110	.0018	.00023	.0088
Stddev	.0001	.0004	.0006	.0002	.0005	.00000	.0003
%RSD	3.569	35.93	7.827	1.993	29.22	.15222	3.257

#1	.0019	.0013	.0072	.0112	.0022	.00023	.0090
#2	.0020	.0008	.0081	.0109	.0014	.00023	.0086

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0005	.0035	.0047	.0024	.0009	.0020
Stddev	.0000	.0001	.0121	.0001	.0001	.0002	.0005
%RSD	3.218	11.48	344.2	2.485	3.649	19.36	24.84

#1	.0004	.0006	.0121	.0046	.0024	.0008	.0016
#2	.0004	.0005	-.0051	.0048	.0023	.0010	.0023

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0132	.0090	-.0180	.0020	.0053	.0005
Stddev	.0000	.0076	.0001	.0230	.0002	.0039	.0000
%RSD	.0753	57.74	.6910	127.8	9.106	74.24	1.889

#1	.0021	.0078	.0089	-.0017	.0019	.0081	.0005
#2	.0021	.0186	.0090	-.0343	.0021	.0025	.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value							
Range							

*average 11/11/10*

Sample Name: CRI      Acquired: 11/11/2010 14:13:28      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin

Comment: ICAP RERUN

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0013	.0019	F -.0260	.0187	.0018	F .0478
Stddev	.0032	.0000	.0001	.0069	.0004	.0003	.0390
%RSD	168.4	3.422	5.587	26.43	2.071	15.28	81.59

#1	-.0004	.0012	.0020	-.0308	.0185	.0016	.0754
#2	.0042	.0013	.0018	-.0211	.0190	.0020	.0202

Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value				.1000			.2000
Range				-50.00%			-50.00%

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0023	.0019	.0019	.0106	.0637	.0009
Stddev	.0002	.0007	.0001	.0000	.0006	.0144	.0001
%RSD	1.738	30.94	5.538	1.294	5.752	22.61	14.62

#1	.0099	.0018	.0018	.0019	.0110	.0739	.0008
#2	.0097	.0028	.0020	.0019	.0101	.0535	.0010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0107	.0148	F .00008
Stddev	.0002	.0009	.00001
%RSD	2.157	5.814	7.2242

#1	.0105	.0142	.00008
#2	.0108	.0154	.00008

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			.00020
Range			-50.000%

*Handwritten note:*  
change 11/11/10

Sample Name: CRI      Acquired: 11/11/2010 14:13:28      Type: QC  
Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      :      :      :  
Comment: ICAP RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5877.7	107060.	1393.8	1432.8
Stddev	35.3	338.	8.7	5.8
%RSD	.60050	.31538	.62095	.40377
#1	5902.6	107300.	1400.0	1436.9
#2	5852.7	106820.	1387.7	1428.7

*average  
11/11/10*

Sample Name: SEM MB      Acquired: 11/11/2010 14:16:00      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: CHECK

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0000	-.0006	.0009	-.0005	.00002	-.0004	-.0001

#1	.0018	.0022	-.0022	.0009	-.0002	-.00005	.0000	.0000
#2	.0019	-.0022	.0010	.0008	-.0009	.00008	-.0007	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0069	.0085	.0006	.0001	.0005	.0006	.0101

#1	.0001	.0125	.0087	.0008	.0002	.0006	.0005	.0135
#2	.0001	.0014	.0082	.0003	.0000	.0003	.0007	.0067

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0031	.0057	-.0001	-.0007	.0004	-.0286	-.0003

#1	-.0008	.0030	.0022	-.0001	-.0006	.0004	-.0815	-.0007
#2	.0014	.0033	.0092	-.0001	-.0007	.0004	.0243	.0001

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.1413	.0003	.0003	.0034	.0035	-.0062	.0044

#1	.0002	-.1846	.0005	.0006	.0035	.0035	-.0065	-.0047
#2	-.0004	-.0980	.0001	-.0001	.0033	.0035	-.0059	.0135

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0008	.0022	.00015

#1	.0001	.0006	.0017	.00035
#2	-.0001	.0009	.0027	-.00004

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5964.1	108480.	1403.9	1453.5

#1	5978.5	108640.	1393.5	1455.6
#2	5949.6	108320.	1414.3	1451.5

Sample Name: K1010892-MB      Acquired: 11/11/2010 14:18:39      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0007	-.0016	.0001	.0002	.00004	-.0019	.0000

#1	.0005	-.0001	-.0007	-.0006	.0002	.00004	-.0016	.0000
#2	.0006	-.0014	-.0026	.0008	.0001	.00004	-.0022	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0091	.0026	-.0001	.0000	-.0001	-.0005	.0051

#1	.0001	-.0059	.0029	-.0002	.0000	-.0003	-.0007	-.0002
#2	.0000	-.0124	.0022	.0001	-.0001	.0001	-.0002	.0103

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0003	.0027	-.0001	-.0009	.0002	F -.1107	-.0027

#1	-.0018	.0006	-.0009	-.0001	-.0010	.0003	-.0721	-.0036
#2	.0003	.0001	.0062	-.0001	-.0008	.0000	-.1492	-.0018

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.1327	.0005	.0002	.0001	.0002	F .1090	.0067

#1	.0000	-.1395	.0006	.0007	.0001	.0002	.1117	.0090
#2	-.0006	-.1260	.0003	-.0003	.0000	.0002	.1063	.0043

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0003	-.0007	.0018	.00009

#1	-.0002	-.0006	.0045	-.00014
#2	-.0004	-.0007	-.0010	.00032

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5923.2	109280.	1451.3	1442.1

#1	5944.3	109210.	1451.7	1450.9
#2	5902.0	109360.	1450.9	1433.3



Sample Name: K1010892-001S      Acquired: 11/11/2010 14:21:14      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin

Comment: 111110B DISS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.916	.4857	.9518	1.934	.04870	.9859	.0472	.0474

#1	1.911	.4858	.9522	1.934	.04884	.9851	.0471	.0472
#2	1.921	.4855	.9515	1.934	.04857	.9867	.0474	.0475

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 15.13	14.56	.1906	.4739	.2353	.2427	4.305	.4779

#1	15.11	14.55	.1907	.4724	.2345	.2415	4.314	.4771
#2	15.14	14.58	.1904	.4755	.2361	.2440	4.296	.4787

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 12.38	.8228	.9733	.4693	F 11.04	.8939	.0490	F 18.26

#1	12.36	.8224	.9704	.4676	10.98	.8938	.0488	18.21
#2	12.40	.8233	.9761	.4709	11.11	.8939	.0492	18.31

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.4841	.4912	.4864	.1652	4.504	.0001	.8809

#1	.0005	.4839	.4894	.4857	.1629	4.502	.0001	.8784
#2	.0007	.4843	.4929	.4871	.1675	4.507	.0001	.8833

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0050	.04007

#1	.0030	.03986
#2	.0070	.04029

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5843.5	107580.	1427.4	1421.0

#1	5863.8	107480.	1424.1	1426.4
#2	5823.1	107690.	1430.7	1415.5

Sample Name: K1010892-001S      Acquired: 11/11/2010 14:24:23      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	F .0022	.0004	.0020	.0332	-.00005	F .0047	.0001

#1	.0016	-.0003	.0012	.0006	.0334	-.00004	.0042	.0000
#2	.0020	.0046	-.0004	.0035	.0329	-.00005	.0052	.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	5.060	5.040	F .0005	.0036	.0022	.0008	3.349

#1	.0001	5.044	5.060	.0007	.0034	.0021	.0009	3.379
#2	.0002	5.077	5.019	.0004	.0037	.0024	.0007	3.319

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	2.385	2.435	.3514	-.0002	.0005	.9874	-.0005

#1	-.0010	2.392	2.435	.3518	-.0001	.0005	1.016	.0011
#2	-.0015	2.378	2.434	.3509	-.0003	.0004	.9585	-.0022

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	F 23.65	.0004	.0004	.0123	.0123	.1597	14.60

#1	.0003	23.52	.0008	.0003	.0122	.0123	.1617	14.59
#2	.0005	23.77	.0000	.0004	.0124	.0122	.1578	14.61

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0061	.03954

#1	.0000	.0007	.0015	.03968
#2	.0001	-.0005	.0106	.03941

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5859.1	108020.	1436.4	1449.2

#1	5863.0	107630.	1437.3	1449.4
#2	5855.1	108400.	1435.6	1448.9

Sample Name: K1010892-002      Acquired: 11/11/2010 14:27:34      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	F .0066	.0025	-.0006	.0300	-.00008	F .0033	.0000

#1	.0033	.0087	.0012	-.0006	.0300	-.00007	.0028	-.0001
#2	.0035	.0044	.0037	-.0007	.0300	-.00009	.0038	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.545	5.500	F .0006	.0008	.0139	.0005	F 20.44

#1	.0001	5.540	5.497	.0006	.0009	.0137	.0002	20.40
#2	.0001	5.550	5.503	.0006	.0007	.0141	.0007	20.48

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.297	2.336	.1279	-.0006	-.0001	.9354	-.0032

#1	-.0011	2.298	2.339	.1277	-.0005	.0000	.8534	-.0029
#2	.0006	2.296	2.334	.1281	-.0007	-.0003	1.017	-.0034

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	7.250	-.0001	.0001	.0115	.0117	.3404	7.332

#1	-.0005	7.235	.0000	.0001	.0115	.0116	.3384	7.388
#2	.0002	7.264	-.0002	.0001	.0116	.0117	.3425	7.276

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0007	.0009	.0049	.05805

#1	.0007	.0001	.0027	.05807
#2	.0008	.0016	.0071	.05803

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5868.9	109190.	1441.6	1446.3

#1	5892.2	109550.	1442.9	1451.3
#2	5845.5	108840.	1440.2	1441.2

Sample Name: K1010892-003      Acquired: 11/11/2010 14:30:49      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	F .0038	.0001	.0005	.0172	-.00003	F .0041	.0000
#1	.0048	.0014	-.0007	.0003	.0171	-.00002	.0051	.0000
#2	.0049	.0063	.0008	.0008	.0172	-.00004	.0031	.0000
Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.915	1.882	F .0001	.0014	.0012	.0001	.6198
#1	.0001	1.933	1.880	-.0002	.0015	.0008	.0004	.6276
#2	.0001	1.897	1.883	.0005	.0013	.0016	-.0001	.6120
Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.8845	.8682	.1713	-.0006	.0004	.5664	-.0025
#1	-.0011	.8846	.8651	.1709	-.0005	.0006	.6054	-.0021
#2	-.0014	.8845	.8713	.1718	-.0006	.0003	.5274	-.0029
Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	4.323	.0009	.0003	.0104	.0103	.1581	7.526
#1	.0000	4.348	.0006	.0005	.0104	.0103	.1550	7.452
#2	-.0002	4.298	.0011	.0002	.0105	.0103	.1612	7.601
Elem	Ti3361	Ti1908	Li6707	Sr4077				
Units	ppm	ppm	ppm	ppm				
Avg	.0002	.0003	.0058	.01758				
#1	.0002	.0006	.0099	.01767				
#2	.0002	-.0001	.0016	.01749				
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	5824.2	107670.	1399.0	1448.0				
#1	5827.5	107520.	1393.8	1449.0				
#2	5820.9	107810.	1404.1	1446.9				

Sample Name: K1010892-004      Acquired: 11/11/2010 14:33:55      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0941	.0946	.0001	.0037	.0691	.00001	F .0039	.0000

#1	.0940	.0950	.0001	.0025	.0684	-0.00002	.0032	.0000
#2	.0941	.0942	.0000	.0049	.0698	.00005	.0046	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 20.44	F .0005	.0012	.0084	.0006	F 11.75	-.0021

#1	.0001	20.26	.0007	.0012	.0082	.0007	11.63	-.0019
#2	.0001	20.62	.0002	.0011	.0087	.0005	11.86	-.0024

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 10.67	.7902	-.0005	-.0001	1.747	-.0031	-.0001	F 15.34

#1	10.71	.7861	-.0005	-.0003	1.761	-.0017	-.0003	15.36
#2	10.63	.7943	-.0006	.0000	1.733	-.0044	.0000	15.33

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0022	F .0043	F .0043	.1330	20.83	.0071	.0000

#1	.0003	.0018	.0043	.0044	.1321	20.98	.0072	-.0006
#2	.0002	.0026	.0042	.0043	.1340	20.67	.0069	.0006

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0100	.10724

#1	.0117	.10616
#2	.0084	.10833

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5765.0	106630.	1402.9	1413.1

#1	5769.6	106550.	1421.6	1412.4
#2	5760.5	106710.	1384.1	1413.8

Sample Name: K1010892-005      Acquired: 11/11/2010 14:37:16      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	F .0023	-.0028	.0002	.0041	.00001	F .0042	.0000

#1	.0017	.0026	-.0035	.0004	.0036	.00001	.0037	-.0001
#2	.0016	.0020	-.0021	-.0001	.0045	.00000	.0047	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 12.81	12.47	F .0004	.0001	.0140	.0160	.0278

#1	.0001	12.77	12.42	.0003	.0001	.0140	.0160	.0236
#2	.0000	12.86	12.51	.0005	.0001	.0140	.0161	.0321

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	5.142	5.115	.0003	-.0007	-.0008	2.255	-.0010

#1	-.0020	5.127	5.100	.0003	-.0005	-.0009	2.272	-.0018
#2	-.0019	5.157	5.130	.0003	-.0009	-.0008	2.239	-.0001

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 11.11	.0006	.0259	.0423	.0420	.3168	31.95

#1	-.0004	11.10	.0006	.0262	.0421	.0420	.3184	31.92
#2	.0004	11.11	.0005	.0256	.0425	.0420	.3153	31.98

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0045	.05534

#1	-.0004	-.0001	.0044	.05502
#2	-.0002	.0004	.0046	.05566

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5837.8	107660.	1409.2	1439.2

#1	5861.5	107900.	1413.9	1443.1
#2	5814.1	107420.	1404.5	1435.3

Sample Name: 0.2 ppm K      Acquired: 11/11/2010 14:40:33      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 0.002/10 MET1-83-D

*LL K MRL = 0.2 ppm*

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	F -.0021	-.0011	.0014	F -.0003	.00004	F -.0007	-.0001

#1	.0006	-.0025	-.0008	.0020	-.0003	.00011	-.0007	.0000
#2	.0007	-.0018	-.0014	.0009	-.0003	-.00003	-.0007	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F -.0150	.0015	F -.0001	-.0001	.0002	.0009	F .0063

#1	.0001	-.0039	.0015	-.0004	.0000	.0003	.0008	.0116
#2	.0000	-.0260	.0016	.0002	-.0001	.0002	.0010	.0009

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	F .0006	-.0001	-.0007	.0001	F .1296	-.0011

#1	-.0001	.0005	.0028	.0000	-.0008	.0002	.1410	-.0021
#2	.0008	.0003	-.0017	-.0001	-.0006	.0000	.1182	-.0002

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	F -.2070	.0003	.0001	F .0001	F .0000	-.0023	.0031

#1	.0005	-.1828	-.0003	-.0004	.0002	.0000	.0005	.0085
#2	.0005	-.2312	.0009	.0005	.0000	.0000	-.0051	-.0023

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	-.0002	-.0004	-.00007

#1	.0001	-.0005	-.0011	-.00021
#2	-.0001	.0001	.0003	.00007

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5865.9	108370.	1384.2	1433.1

#1	5867.8	108300.	1389.4	1438.0
#2	5864.0	108430.	1379.1	1428.2

Sample Name: CCVA3      Acquired: 11/11/2010 14:43:03      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595	.2376	.2479	.2584	.2492	.25145	.2492	.2578
Stddev	.0002	.0043	.0016	.0005	.0021	.00080	.0020	.0009
%RSD	.0726	1.821	.6258	.1918	.8358	.31920	.8196	.3410
#1	.2594	.2345	.2490	.2580	.2507	.25088	.2507	.2585
#2	.2596	.2406	.2468	.2587	.2477	.25202	.2478	.2572
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2602	.2580	.2585	.2543	.2578	.2552	.2516	.2615
Stddev	.0005	.0130	.0017	.0008	.0003	.0013	.0004	.0069
%RSD	.1832	5.023	.6673	.3115	.1200	.5034	.1500	2.622
#1	.2599	.2488	.2598	.2548	.2580	.2561	.2519	.2663
#2	.2606	.2672	.2573	.2537	.2575	.2543	.2514	.2566
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601	.2528	.2555	.2434	.2519	.2446	.2567	.2609
Stddev	.0008	.0282	.0013	.0017	.0010	.0013	.0000	.0002
%RSD	.3218	11.15	.4949	.6976	.4032	.5463	.0038	.0750
#1	.2607	.2329	.2564	.2422	.2512	.2456	.2567	.2608
#2	.2596	.2728	.2546	.2446	.2527	.2437	.2567	.2611
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								



Sample Name: CCVA3      Acquired: 11/11/2010 14:43:03      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.226	.2468	.2458	.1494	.2549	.2535	.2615	.2502
Stddev	.042	.0007	.0013	.0070	.0015	.0005	.0010	.0008
%RSD	1.881	.2912	.5446	4.678	.5708	.1956	.3979	.3180
#1	2.256	.2473	.2468	.1543	.2559	.2531	.2622	.2507
#2	2.196	.2463	.2449	.1444	.2538	.2538	.2608	.2496

Check ?      None    Chk Pass    Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 Value  
 Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0108	.1535	.2550	.2550	.0014	.00009
Stddev	.0023	.0029	.0002	.0035	.0008	.00008
%RSD	21.17	1.864	.0936	1.391	62.20	83.422
#1	-.0125	.1515	.2551	.2575	.0020	.00014
#2	-.0092	.1555	.2548	.2525	.0008	.00004

Check ?      None      None    Chk Pass    Chk Pass      None      None  
 Value  
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5672.6	105390.	1346.6	1393.8
Stddev	10.7	3.	11.9	3.1
%RSD	.18798	.00304	.88534	.22551
#1	5680.2	105390.	1338.2	1391.6
#2	5665.1	105390.	1355.0	1396.0

Sample Name: CCVB3      Acquired: 11/11/2010 14:46:00      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.965	9.627	-.0015	.9896	9.638	.00003	.0003	.0000
Stddev	.021	.016	.0006	.0044	.012	.00002	.0011	.0000
%RSD	.2972	.1621	41.81	.4457	.1195	69.277	355.9	64.05

#1	6.951	9.616	-.0019	.9927	9.629	.00002	.0011	.0000
#2	6.980	9.638	-.0011	.9865	9.646	.00005	-.0005	.0000

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.651	9.406	.0001	.0003	.0065	-.0013	9.784
Stddev	.0001	.024	.040	.0000	.0002	.0002	.0000	.011
%RSD	60.74	.2497	.4210	17.34	48.12	3.305	3.946	.1122

#1	.0001	9.634	9.434	.0001	.0002	.0067	-.0012	9.791
#2	.0002	9.668	9.378	.0001	.0005	.0064	-.0013	9.776

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	9.909	9.592	9.656	.9691	.9463	-.0005	-.0002
Stddev	.0010	.050	.003	.028	.0048	.0013	.0004	.0000
%RSD	86.21	.5021	.0302	.2930	.4986	.1342	71.50	16.57

#1	-.0004	9.944	9.594	9.636	.9657	.9454	-.0003	-.0002
#2	-.0018	9.874	9.590	9.676	.9725	.9472	-.0008	-.0002

Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB3      Acquired: 11/11/2010 14:46:00      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>9.229</b>	<b>-.0031</b>	<b>.0003</b>	<b>9.883</b>	<b>.0002</b>	<b>.0019</b>	<b>.0002</b>	<b>.0003</b>
Stddev	.020	.0014	.0004	.045	.0006	.0003	.0002	.0001
%RSD	.2189	44.55	156.5	.4550	425.6	13.69	72.09	23.83

#1	9.215	-.0021	.0000	9.914	-.0003	.0020	.0001	.0002
#2	9.244	-.0041	.0006	9.851	.0006	.0017	.0003	.0003

Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>9.972</b>	<b>9.808</b>	<b>.0002</b>	<b>.0019</b>	<b>.9341</b>	<b>.96163</b>
Stddev	.040	.023	.0001	.0001	.0012	.00077
%RSD	.4043	.2357	46.95	5.986	.1328	.08031

#1	10.00	9.791	.0001	.0020	.9350	.96218
#2	9.944	9.824	.0003	.0018	.9332	.96109

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>5802.9</b>	<b>106010.</b>	<b>1401.9</b>	<b>1421.1</b>
Stddev	6.9	256.	1.6	5.7
%RSD	.11821	.24176	.11727	.39861

#1	5807.7	105830.	1400.7	1425.1
#2	5798.0	106190.	1403.0	1417.1

Sample Name: CCB3      Acquired: 11/11/2010 14:50:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0009	-.0006	.0014	.0001	-.00002	-.0021	.0000
Stddev	.0002	.0032	.0023	.0008	.0003	.00002	.0001	.000
%RSD	71.17	343.7	409.9	55.16	246.8	126.71	4.471	340.5

#1	.0001	-.0032	.0011	.0008	-.0001	.00000	-.0020	.0000
#2	.0004	.0013	-.0022	.0019	.0003	-.00003	-.0021	-.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0034	.0008	.0004	.0000	.0001	-.0007	-.0014
Stddev	.0000	.0042	.0003	.0002	.0001	.0003	.0006	.0002
%RSD	.4303	121.0	36.83	55.11	1408.	292.1	81.25	14.68

#1	.0001	.0005	.0006	.0002	-.0001	.0003	-.0003	-.0016
#2	.0001	.0064	.0009	.0005	.0001	-.0001	-.0012	-.0013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0078	.0000	.0029	-.0001	-.0005	-.0006	.0002
Stddev	.0003	.0379	.0002	.0060	.0001	.0003	.0002	.0001
%RSD	115.8	483.9	2468.	210.1	88.21	51.47	30.03	70.37

#1	-.0005	-.0190	-.0001	-.0014	.0000	-.0003	-.0007	.0002
#2	.0000	.0347	.0002	.0071	-.0001	-.0007	-.0004	.0001

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB3      Acquired: 11/11/2010 14:50:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.1248	-.0027	.0005	-.0739	.0009	.0000	.0000	.0000
Stddev	.1107	.0004	.0002	.0052	.0000	.0007	.0001	.000
%RSD	88.65	15.19	45.71	7.032	4.026	1443.	600.9	511.6
#1	-.2031	-.0029	.0006	-.0702	.0009	-.0004	-.0001	.0000
#2	-.0466	-.0024	.0003	-.0776	.0009	.0005	.0001	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.1000							
Low Limit	-.1000							

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0048	.0177	.0000	.0004	.0078	-.00005
Stddev	.0020	.0228	.000	.0002	.0025	.00022
%RSD	41.14	128.4	463.7	42.02	32.17	444.54
#1	-.0034	.0016	.0001	.0003	.0096	-.00020
#2	-.0063	.0338	-.0002	.0006	.0060	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5863.4	106090.	1369.6	1424.1
Stddev	1.1	11.	16.5	1.3
%RSD	.01851	.01060	1.2047	.08902
#1	5864.1	106080.	1381.3	1425.0
#2	5862.6	106100.	1357.9	1423.2

Sample Name: K1010892-006      Acquired: 11/11/2010 14:52:46      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	F .0067	-.0007	.0011	.0099	-.00001	.0855	-.0001

#1	.0052	.0042	-.0011	.0006	.0095	-.00002	.0844	.0000
#2	.0054	.0092	-.0003	.0017	.0103	.00000	.0866	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F 11.79	11.47	F .0002	.0003	.0035	.0030	1.044

#1	.0001	11.85	11.51	.0003	.0004	.0037	.0031	1.048
#2	.0002	11.74	11.43	.0001	.0002	.0032	.0028	1.040

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	1.597	1.573	.0299	-.0003	-.0004	6.030	-.0025

#1	-.0006	1.601	1.575	.0300	-.0002	-.0002	5.983	-.0027
#2	.0000	1.593	1.571	.0297	-.0004	-.0006	6.078	-.0022

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	F 100.6	.0004	.0035	.3106	.3025	.1693	19.27

#1	.0001	101.2	.0003	.0037	.3096	.3024	.1662	19.10
#2	.0005	100.0	.0006	.0032	.3116	.3026	.1723	19.44

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0009	-.0008	.0216	.02955

#1	.0008	-.0016	.0190	.02931
#2	.0010	.0000	.0241	.02979

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5809.9	105920.	1380.1	1401.3

#1	5833.7	105350.	1371.9	1404.3
#2	5786.0	106490.	1388.2	1398.4

Sample Name: K1010892-007      Acquired: 11/11/2010 14:56:07      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	F .0016	-.0011	.0027	F .0019	-.00002	F .0027	-.0001

#1	.0016	-.0025	-.0017	.0026	.0019	.00003	.0022	-.0001
#2	.0014	.0058	-.0004	.0028	.0019	-.00007	.0033	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 12.02	11.63	F .0007	.0006	.0005	.0014	.0613

#1	.0001	11.99	11.60	.0006	.0003	.0006	.0017	.0650
#2	.0001	12.04	11.67	.0008	.0008	.0003	.0011	.0576

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	5.378	5.514	.0003	-.0007	-.0010	2.295	.0004

#1	-.0007	5.375	5.513	.0003	-.0008	-.0010	2.292	.0004
#2	-.0020	5.382	5.514	.0003	-.0007	-.0011	2.298	.0004

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	7.746	.0004	.0240	F .0035	F .0035	.3168	29.67

#1	.0004	7.713	.0003	.0240	.0035	.0034	.3206	29.65
#2	.0003	7.778	.0006	.0239	.0035	.0036	.3131	29.69

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0002	.0005	.0075	.05515

#1	-.0002	.0012	.0072	.05513
#2	-.0001	-.0002	.0078	.05516

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5911.3	108420.	1434.5	1462.2

#1	5933.0	108290.	1437.5	1468.8
#2	5889.5	108540.	1431.6	1455.6

Sample Name: K1010892-008      Acquired: 11/11/2010 14:59:23      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203	.0217	-.0021	.0028	.1471	.00003	F .0397	.0000

#1	.0202	.0205	-.0029	.0015	.1470	.00002	.0403	.0000
#2	.0204	.0228	-.0013	.0040	.1471	.00005	.0391	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 93.87	.0090	.0128	.0141	.0132	.4541	-.0018

#1	.0000	93.73	.0089	.0127	.0136	.0130	.4568	-.0010
#2	.0001	94.02	.0091	.0128	.0145	.0134	.4514	-.0026

Elem	Mg2790	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	104.9	.6553	.0009	.0100	F 27.63	-.0023	.0001	F 338.4

#1	104.6	.6561	.0007	.0098	27.59	-.0022	.0003	340.6
#2	105.1	.6545	.0010	.0103	27.67	-.0025	.0000	336.1

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0065	.0146	.0133	.2071	18.16	.0039	.0010

#1	.0006	.0063	.0146	.0133	.2053	18.06	.0038	-.0002
#2	.0003	.0067	.0147	.0134	.2089	18.25	.0039	.0022

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0110	.45625

#1	.0102	.45585
#2	.0119	.45664

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5472.0	101570.	1388.2	1280.4

#1	5497.5	101650.	1383.3	1288.0
#2	5446.4	101490.	1393.1	1272.8



Sample Name: K1010892-009      Acquired: 11/11/2010 15:02:49      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.0227	-.0040	.0034	.1467	.00003	F .0402	.0000

#1	.0222	.0176	-.0032	.0042	.1476	-.00001	.0404	.0000
#2	.0221	.0278	-.0047	.0027	.1459	.00008	.0399	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 93.45	.0086	.0096	.0098	.0104	.3550	-.0009

#1	.0000	93.71	.0086	.0097	.0100	.0106	.3540	-.0020
#2	.0001	93.20	.0086	.0095	.0097	.0103	.3559	.0003

Elem	Mg2790	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	104.4	.6497	.0008	.0097	F 27.83	-.0019	.0003	F 321.1

#1	104.8	.6487	.0006	.0098	27.78	-.0014	-.0001	321.5
#2	104.1	.6508	.0010	.0097	27.87	-.0024	.0008	320.7

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0055	.0114	.0105	.1816	18.20	.0037	.0014

#1	-.0002	.0056	.0114	.0106	.1838	18.22	.0037	.0001
#2	.0004	.0054	.0114	.0105	.1795	18.19	.0037	.0026

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0081	.45480

#1	.0079	.45638
#2	.0083	.45323

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5525.7	102590.	1406.6	1295.1

#1	5541.8	102610.	1407.7	1298.1
#2	5509.6	102570.	1405.6	1292.2

Sample Name: K1012657-002      Acquired: 11/11/2010 15:06:55      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F -.0006	-.0025	.0026	F .0019	.00002	F .0131	.0000

#1	.0014	-.0003	-.0020	.0034	.0010	.00004	.0126	.0000
#2	.0010	-.0009	-.0030	.0018	.0028	.00000	.0135	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	2.897	2.846	F -.0001	.0000	.0001	-.0002	F .0077

#1	.0000	2.878	2.851	-.0003	-.0001	.0000	-.0005	.0063
#2	.0001	2.917	2.841	.0002	.0001	.0001	.0001	.0091

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.447	2.460	.0165	-.0007	.0001	1.463	-.0015

#1	-.0005	2.449	2.463	.0166	-.0008	-.0001	1.431	-.0010
#2	.0001	2.445	2.458	.0164	-.0007	.0003	1.495	-.0019

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	F 17.92	.0005	.0003	F .0000	F .0000	.0226	.5600

#1	.0000	17.84	.0000	.0002	.0000	.0000	.0214	.5609
#2	-.0008	18.01	.0009	.0004	.0000	.0001	.0238	.5590

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0013	.0016	.02313

#1	.0002	.0011	-.0005	.02292
#2	.0000	.0015	.0036	.02334

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5934.4	108880.	1426.6	1477.5

#1	5940.9	108690.	1425.6	1478.8
#2	5927.9	109060.	1427.6	1476.3

Sample Name: K1012657-003      Acquired: 11/11/2010 15:10:13      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	F .0021	-.0014	.0021	F .0005	.00003	F .0014	.0000

#1	.0008	.0040	-.0015	.0024	.0008	.00004	.0016	.0000
#2	.0007	.0001	-.0013	.0018	.0003	.00001	.0012	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.2565	.2640	F .0004	-.0003	.0000	.0000	F .0110

#1	.0000	.2619	.2633	-.0001	-.0001	.0001	.0003	.0151
#2	.0001	.2510	.2648	.0008	-.0005	.0000	-.0002	.0069

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.2106	.2029	.0022	-.0007	.0000	.2626	-.0009

#1	-.0011	.2105	.2066	.0022	-.0007	.0001	.3184	-.0012
#2	-.0005	.2107	.1993	.0022	-.0007	-.0001	.2067	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.083	-.0001	.0003	F .0001	F .0001	-.0023	.5310

#1	-.0002	2.116	-.0005	.0000	.0000	.0001	-.0045	.5403
#2	-.0001	2.051	.0002	.0005	.0001	.0001	-.0001	.5217

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0010	.0080	.00204

#1	-.0001	.0020	.0083	.00233
#2	.0001	.0000	.0078	.00175

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5892.1	105850.	1364.4	1457.7

#1	5738.9	106010.	1359.4	1423.0
#2	6045.4	105690.	1369.4	1492.4

Sample Name: K1012657-004      Acquired: 11/11/2010 15:13:19      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	F .0007	-.0021	.0029	F .0001	.00005	F -.0012	.0000

#1	.0008	-.0001	-.0016	.0019	.0010	.00006	-.0008	-.0001
#2	.0009	.0015	-.0025	.0039	-.0008	.00005	-.0017	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1745	.1841	F .0004	.0001	.0005	.0003	F .0007

#1	.0000	.1562	.1838	.0004	.0001	.0006	-.0005	.0016
#2	.0001	.1927	.1843	.0005	.0002	.0004	.0011	-.0003

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0154	F .0196	.0000	-.0006	.0005	F -.0231	-.0020

#1	-.0018	.0155	.0232	.0000	-.0005	.0002	-.0565	-.0022
#2	-.0014	.0153	.0160	.0000	-.0006	.0007	.0104	-.0018

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F .1790	.0002	-.0002	F .0051	F .0052	-.0016	.0305

#1	-.0007	.1969	.0000	-.0001	.0050	.0052	-.0023	.0399
#2	.0010	.1610	.0003	-.0004	.0053	.0053	-.0009	.0212

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0005	.0015	.00073

#1	.0000	.0008	.0052	.00063
#2	.0002	.0002	-.0021	.00084

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.0	108820.	1394.0	1439.5

#1	5939.9	108830.	1389.0	1446.4
#2	5900.1	108800.	1399.1	1432.6

Sample Name: K1010795-MB Acquired: 11/11/2010 15:16:26 Type: Unk

Method: 10C2007(v48) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0044	-.0012	.0009	-.0007	-.00009	-.0007	.0000

#1	.0005	-.0040	-.0008	-.0005	-.0013	-.00007	-.0003	-.0001
#2	.0006	-.0047	-.0016	.0023	-.0002	-.00011	-.0012	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0182	.0027	.0001	-.0003	.0003	-.0003	.0062

#1	.0001	-.0169	.0025	-.0001	-.0003	.0003	-.0005	.0094
#2	.0001	-.0195	.0030	.0003	-.0003	.0003	-.0001	.0030

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0001	.0004	-.0001	-.0010	-.0001	-.0248	-.0017

#1	-.0008	-.0002	.0005	-.0001	-.0010	-.0003	-.0192	-.0016
#2	-.0009	.0000	.0003	-.0001	-.0011	.0000	-.0303	-.0019

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0698	-.0001	-.0001	.0009	.0010	F .0863	.0054

#1	.0001	.0424	.0001	-.0006	.0009	.0010	.0838	-.0084
#2	-.0002	.0972	-.0003	.0003	.0009	.0010	.0887	.0191

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	-.0014	.0037	-.00004

#1	-.0001	-.0020	.0033	-.00004
#2	.0001	-.0007	.0042	-.00005

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.6	108580.	1384.8	1435.7

#1	5936.1	108800.	1396.8	1440.3
#2	5905.1	108350.	1372.8	1431.1

Sample Name: LCSW      Acquired: 11/11/2010 15:19:06      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.906	2.476	2.535	4.892	.12573	.9957	1.249	1.245

#1	4.896	2.474	2.532	4.863	.12527	.9913	1.242	1.237
#2	4.915	2.477	2.537	4.921	.12620	1.0000	1.257	1.254

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.42	12.26	.5134	1.271	.6337	.6330	2.574	2.544

#1	12.39	12.30	.5135	1.264	.6291	.6312	2.550	2.530
#2	12.45	12.21	.5133	1.278	.6384	.6348	2.598	2.558

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.13	1.269	1.028	1.252	11.85	2.374	.6127	11.81

#1	12.09	1.269	1.022	1.245	11.78	2.375	.6109	11.82
#2	12.18	1.268	1.034	1.259	11.92	2.373	.6146	11.79

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	1.298	1.250	1.213	.1081	-.0067	.0000	2.561

#1	.0003	1.299	1.241	1.213	.1073	-.0137	.0002	2.544
#2	.0006	1.296	1.258	1.214	.1088	.0004	-.0002	2.577

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0022	9.7444

#1	.0016	9.7118
#2	.0029	9.7770

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5676.2	103930.	1375.5	1378.4

#1	5706.1	103610.	1375.6	1385.8
#2	5646.4	104250.	1375.3	1371.0

Sample Name: LCSW      Acquired: 11/11/2010 15:22:16      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	F .0019	-.0012	.0017	F -.0003	.00003	F .0025	.0000

#1	.0009	.0025	-.0016	.0014	-.0007	.00001	.0024	.0000
#2	.0007	.0013	-.0008	.0019	.0001	.00005	.0027	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F -.0113	.0035	F .0002	.0001	.0002	.0004	F .0021

#1	.0001	-.0016	.0033	-.0002	.0001	.0003	.0009	-.0059
#2	.0001	-.0210	.0037	.0005	.0002	.0001	.0000	.0101

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0006	F .0032	-.0001	-.0002	-.0003	F -.0939	-.0004

#1	-.0009	.0006	.0035	-.0001	-.0001	-.0002	-.0507	.0006
#2	-.0010	.0006	.0029	-.0001	-.0002	-.0005	-.1371	-.0014

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F 14.87	.0003	.0007	F .0006	F .0005	.1325	9.562

#1	-.0002	14.84	-.0002	.0008	.0006	.0005	.1348	9.566
#2	.0000	14.90	.0008	.0005	.0006	.0005	.1303	9.557

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0015	.0028	.00010

#1	.0002	.0016	.0051	.00007
#2	.0000	.0014	.0004	.00014

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5801.1	105540.	1372.3	1422.8

#1	5812.2	105350.	1371.7	1427.0
#2	5790.1	105730.	1372.9	1418.5

Sample Name: CCVA4      Acquired: 11/11/2010 15:25:37      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469	.2406	.2518	.2592	.2410	.25130	.2492	.2469
Stddev	.0011	.0013	.0019	.0009	.0013	.00072	.0026	.0016
%RSD	.4625	.5426	.7691	.3556	.5373	.28761	1.037	.6411

#1	.2461	.2415	.2531	.2585	.2401	.25078	.2510	.2457
#2	.2477	.2396	.2504	.2598	.2420	.25181	.2473	.2480

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2474	.2418	.2508	.2457	.2460	.2454	.2520	.2475
Stddev	.0012	.0007	.0006	.0010	.0012	.0013	.0002	.0083
%RSD	.4766	.2784	.2414	.3946	.4788	.5200	.0766	3.358

#1	.2466	.2422	.2504	.2450	.2451	.2445	.2522	.2534
#2	.2482	.2413	.2513	.2464	.2468	.2463	.2519	.2416

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2470	.2269	.2504	.2554	.2433	.2361	.2454	.2480
Stddev	.0025	.0178	.0004	.0020	.0001	.0005	.0011	.0014
%RSD	1.020	7.852	.1633	.7694	.0259	.2171	.4540	.5566

#1	.2452	.2395	.2501	.2540	.2434	.2365	.2447	.2470
#2	.2488	.2143	.2507	.2568	.2433	.2358	.2462	.2490

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								



Sample Name: CCVA4      Acquired: 11/11/2010 15:25:37      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.213	.2474	.2509	.2696	.2451	.2451	.2480	.2506
Stddev	.003	.0001	.0004	.0693	.0031	.0004	.0015	.0000
%RSD	.1163	.0547	.1658	25.70	1.269	.1476	.5925	.0045

#1	2.215	.2475	.2512	.2206	.2429	.2448	.2470	.2506
#2	2.212	.2473	.2506	.3186	.2473	.2454	.2491	.2506

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	.1288	.2457	.2468	.0037	-.00006
Stddev	.0005	.0279	.0004	.0007	.0004	.00014
%RSD	5.955	21.69	.1634	.2949	11.13	249.48

#1	-.0080	.1486	.2460	.2463	.0039	-.00015
#2	-.0074	.1091	.2454	.2473	.0034	.00004

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5954.3	109190.	1402.5	1455.4
Stddev	18.3	353.	.7	7.3
%RSD	.30695	.32335	.04739	.50148

#1	5967.2	108940.	1403.0	1460.5
#2	5941.3	109440.	1402.1	1450.2

Sample Name: CCVB4      Acquired: 11/11/2010 15:28:35      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>6.904</b>	<b>9.792</b>	<b>-.0015</b>	<b>1.007</b>	<b>9.713</b>	<b>.00004</b>	<b>.0002</b>	<b>.0001</b>
Stddev	.013	.039	.0019	.000	.046	.00002	.0015	.0000
%RSD	.1867	.3939	122.7	.0200	.4733	41.097	796.0	40.23

#1	6.895	9.765	-.0002	1.007	9.745	.00005	.0012	.0001
#2	6.913	9.820	-.0029	1.007	9.680	.00003	-.0008	.0001

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0001</b>	<b>9.759</b>	<b>9.458</b>	<b>.0002</b>	<b>.0002</b>	<b>.0065</b>	<b>.0003</b>	<b>9.878</b>
Stddev	.0000	.061	.039	.0004	.0001	.0003	.0008	.073
%RSD	16.07	.6264	.4137	258.5	62.02	4.103	273.6	.7417

#1	.0001	9.802	9.431	-.0001	.0001	.0067	.0008	9.930
#2	.0001	9.715	9.486	.0004	.0003	.0063	-.0003	9.826

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>-.0018</b>	<b>9.832</b>	<b>9.638</b>	<b>10.07</b>	<b>.9707</b>	<b>.9733</b>	<b>-.0006</b>	<b>-.0002</b>
Stddev	.0010	.030	.051	.06	.0045	.0113	.0000	.0001
%RSD	54.97	.3007	.5267	.5496	.4608	1.164	3.632	56.26

#1	-.0011	9.853	9.674	10.11	.9739	.9813	-.0006	-.0001
#2	-.0025	9.811	9.602	10.03	.9676	.9653	-.0006	-.0003

Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB4      Acquired: 11/11/2010 15:28:35      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.680	-.0021	.0007	9.731	.0004	.0016	.0003	.0003
Stddev	.051	.0011	.0002	.045	.0000	.0007	.0001	.0001
%RSD	.5255	53.65	29.69	.4676	4.417	44.87	27.73	22.76

#1	9.644	-.0013	.0008	9.699	.0004	.0011	.0002	.0003
#2	9.716	-.0029	.0005	9.763	.0004	.0020	.0003	.0002

Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11	10.04	.0002	.0026	.9642	.97448
Stddev	.01	.05	.0001	.0012	.0023	.00438
%RSD	.1400	.4649	33.87	44.58	.2362	.44958

#1	10.12	10.07	.0003	.0018	.9658	.97758
#2	10.10	10.01	.0002	.0034	.9626	.97139

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5885.1	107020.	1444.7	1444.0
Stddev	14.5	416.	2.6	7.4
%RSD	.24701	.38846	.17797	.51395

#1	5895.3	106730.	1442.9	1449.3
#2	5874.8	107320.	1446.6	1438.8

Sample Name: CCB4      Acquired: 11/11/2010 15:32:40      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0009	-.0014	.0021	.0006	.00002	-.0007	.0000
Stddev	.0001	.0009	.0009	.0002	.0003	.00000	.0003	.000
%RSD	16.09	91.45	62.03	8.305	41.47	19.622	47.59	732.1

#1	.0006	-.0015	-.0008	.0020	.0005	.00002	-.0005	.0000
#2	.0005	-.0003	-.0021	.0022	.0008	.00002	-.0010	.0000

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0096	.0007	-.0002	-.0001	.0000	.0001	-.0031
Stddev	.0000	.0083	.0001	.0000	.0002	.0001	.0005	.0026
%RSD	295.4	86.26	21.85	14.43	463.0	340.0	681.6	85.06

#1	.0000	-.0037	.0006	-.0002	.0001	-.0001	.0004	-.0049
#2	.0000	-.0155	.0008	-.0001	-.0002	.0001	-.0003	-.0012

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0207	.0000	.0033	-.0001	-.0006	-.0005	.0000
Stddev	.0005	.0246	.000	.0032	.0000	.0008	.0002	.000
%RSD	37.68	118.7	228.6	97.38	14.99	128.8	36.43	312.8

#1	-.0017	-.0381	.0000	.0010	-.0001	-.0011	-.0007	.0000
#2	-.0010	-.0033	.0000	.0055	-.0001	-.0001	-.0004	-.0001

Check ?    Chk Pass    None   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 High Limit  
 Low Limit

Sample Name: CCB4      Acquired: 11/11/2010 15:32:40      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0513	-.0024	.0004	-.0100	.0004	.0000	-.0001	.0000
Stddev	.0341	.0019	.0001	.0031	.0003	.000	.0000	.0000
%RSD	66.53	76.16	26.92	31.44	78.26	1049.	23.26	13.37

#1	-.0755	-.0038	.0004	-.0122	.0005	-.0002	-.0001	.0000
#2	-.0272	-.0011	.0003	-.0078	.0002	.0002	-.0001	.0000

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0052	.0195	.0001	-.0001	.0026	.00013
Stddev	.0024	.0084	.0001	.0001	.0039	.00004
%RSD	45.51	43.28	80.61	115.0	149.8	27.348

#1	-.0035	.0135	.0001	-.0002	.0053	.00016
#2	-.0069	.0255	.0000	.0000	-.0002	.00011

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5923.7	109090.	1402.4	1447.5
Stddev	11.9	563.	27.6	1.1
%RSD	.20113	.51585	1.9715	.07478

#1	5932.1	109480.	1422.0	1448.3
#2	5915.3	108690.	1382.9	1446.7

Sample Name: K1010795-001      Acquired: 11/11/2010 15:35:21      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132	F .0115	-.0016	.0030	.1086	.00001	F .0083	.0000

#1	.0130	.0122	-.0014	.0033	.1089	.00006	.0084	.0000
#2	.0134	.0109	-.0019	.0027	.1083	-.00003	.0082	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 61.03	F .0036	.0005	.0014	.0009	.0353	-.0015

#1	.0001	61.03	.0036	.0003	.0009	.0007	.0280	-.0007
#2	.0001	61.02	.0036	.0006	.0018	.0011	.0426	-.0022

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 19.09	.0629	.0020	.0074	4.449	-.0013	.0000	F 18.61

#1	19.11	.0626	.0019	.0073	4.406	-.0002	.0000	18.69
#2	19.06	.0633	.0021	.0075	4.493	-.0023	.0000	18.52

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0029	F .0040	F .0040	.2590	18.67	.0003	-.0007

#1	.0006	.0031	.0041	.0039	.2560	18.69	.0001	-.0007
#2	.0008	.0026	.0039	.0041	.2620	18.64	.0006	-.0007

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0119	.21753

#1	.0088	.21727
#2	.0150	.21780

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.5	106900.	1410.8	1420.1

#1	5814.4	106860.	1412.2	1425.1
#2	5794.6	106940.	1409.5	1415.0

Sample Name: K1010795-001D      Acquired: 11/11/2010 15:38:38      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136	F .0123	-.0018	.0050	.1098	.00003	F .0068	.0000

#1	.0136	.0139	-.0004	.0034	.1090	.00004	.0061	.0000
#2	.0135	.0108	-.0032	.0067	.1106	.00001	.0075	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 61.85	F .0037	.0007	.0014	.0022	.0460	-.0014

#1	.0001	61.68	.0039	.0008	.0012	.0022	.0488	-.0011
#2	.0001	62.02	.0034	.0006	.0016	.0023	.0433	-.0017

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 19.47	.0639	.0022	.0071	4.639	-.0007	.0000	F 19.03

#1	19.42	.0636	.0022	.0070	4.612	-.0016	.0000	19.05
#2	19.52	.0641	.0023	.0072	4.666	.0002	.0000	19.02

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0020	F .0046	F .0046	.2550	19.12	.0005	-.0001

#1	-.0003	.0024	.0045	.0046	.2558	19.17	.0007	.0004
#2	.0002	.0017	.0046	.0046	.2542	19.07	.0004	-.0005

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0157	.22043

#1	.0180	.22006
#2	.0134	.22081

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5828.3	107260.	1426.5	1426.4

#1	5844.2	107300.	1426.5	1428.5
#2	5812.4	107220.	1426.5	1424.4

Sample Name: K1010795-001L      Acquired: 11/11/2010 15:42:05      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B 1/5

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	-.0003	-.0004	.0026	.0229	.00006	.0005	.0000

#1	.0031	-.0018	-.0003	.0033	.0220	.00001	.0003	-.0001
#2	.0030	.0012	-.0005	.0020	.0239	.00010	.0008	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	12.92	12.43	.0009	.0002	.0003	.0001	.0148

#1	.0000	12.95	12.40	.0008	.0003	.0005	.0008	.0150
#2	.0001	12.90	12.47	.0011	.0001	.0001	-.0007	.0146

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	4.066	3.947	.0134	.0000	.0018	.7747	-.0016

#1	.0000	4.066	3.948	.0134	.0000	.0019	.8318	-.0010
#2	-.0010	4.065	3.946	.0134	.0000	.0017	.7176	-.0021

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	3.765	.0003	.0006	.0008	.0008	.0483	3.781

#1	.0001	3.804	.0001	.0001	.0009	.0008	.0468	3.780
#2	.0005	3.727	.0005	.0010	.0007	.0008	.0497	3.783

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0021	.0070	.04543

#1	-.0001	.0023	.0032	.04553
#2	.0003	.0019	.0107	.04533

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5822.6	104990.	1359.1	1436.2

#1	5710.5	104850.	1361.0	1408.2
#2	5934.7	105130.	1357.2	1464.1



Sample Name: K1010795-001S      Acquired: 11/11/2010 15:45:29      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin

Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>1.964</b>	<b>.4833</b>	<b>.9503</b>	<b>2.001</b>	<b>.04861</b>	<b>.9961</b>	<b>.0472</b>	<b>.0476</b>

#1	1.965	.4854	.9488	2.016	.04841	.9946	.0470	.0475
#2	1.963	.4812	.9519	1.986	.04881	.9975	.0474	.0476

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>71.81</b>	<b>.1952</b>	<b>.4679</b>	<b>.2330</b>	<b>.2427</b>	<b>1.018</b>	<b>.4798</b>	<b>29.06</b>

#1	72.19	.1947	.4666	.2325	.2422	1.030	.4783	29.08
#2	71.43	.1956	.4691	.2334	.2432	1.006	.4814	29.03

Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.5249</b>	<b>.9933</b>	<b>.4734</b>	<b>14.84</b>	<b>.8784</b>	<b>.0485</b>	<b>29.64</b>	<b>.0002</b>

#1	.5242	.9902	.4719	14.76	.8764	.0480	29.85	.0000
#2	.5255	.9963	.4748	14.93	.8804	.0489	29.42	.0005

Elem	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.4879</b>	<b>.4852</b>	<b>.4708</b>	<b>.2464</b>	<b>19.20</b>	<b>.0007</b>	<b>.9197</b>	<b>.0204</b>

#1	.4887	.4836	.4712	.2475	19.23	.0005	.9181	.0201
#2	.4872	.4868	.4705	.2453	19.17	.0008	.9212	.0206

Elem	Sr4077
Units	ppm
Avg	<b>9.6738</b>

#1	9.7454
#2	9.6023

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>5664.4</b>	<b>105560.</b>	<b>1421.4</b>	<b>1378.2</b>

#1	5687.8	105320.	1412.0	1384.2
#2	5640.9	105800.	1430.9	1372.2

Sample Name: K1010795-002      Acquired: 11/11/2010 15:48:45      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	F -.0002	-.0025	.0030	.0520	.00002	F .0048	.0000

#1	.0043	.0013	-.0019	.0048	.0520	.00010	.0048	-.0001
#2	.0047	-.0017	-.0031	.0012	.0520	-.00006	.0048	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 78.64	F .0017	.0003	.0009	.0016	F .0151	-.0016

#1	.0001	78.53	.0017	.0001	.0010	.0011	.0154	-.0025
#2	.0001	78.76	.0016	.0006	.0007	.0021	.0147	-.0007

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 31.30	.0374	.0016	.0007	4.674	-.0008	.0000	F 32.10

#1	31.36	.0374	.0016	.0007	4.691	.0000	-.0002	32.03
#2	31.24	.0373	.0015	.0007	4.658	-.0016	.0003	32.16

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0054	F .0030	F .0032	.2450	21.61	-.0001	.0013

#1	-.0009	.0052	.0029	.0032	.2419	21.73	.0000	.0025
#2	-.0001	.0055	.0030	.0031	.2480	21.49	-.0001	.0002

Elem	Li6707	Sr4077						
Units	ppm	ppm						
Avg	.0096	.39873						

#1	.0085	.39789						
#2	.0107	.39957						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	5683.5	106290.	1418.7	1390.5				

#1	5698.6	106300.	1424.5	1393.2				
#2	5668.4	106270.	1412.9	1387.8				

Sample Name: K1010795-003      Acquired: 11/11/2010 15:52:13      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0021	-.0009	.0020	.0003	.00000	.0005	.0000

#1	.0010	.0009	.0000	.0020	.0004	-.00003	.0015	.0000
#2	.0010	-.0052	-.0019	.0020	.0001	.00002	-.0006	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0059	.0076	.0004	.0001	.0001	-.0005	.0053

#1	.0000	.0032	.0077	.0005	-.0001	.0004	-.0008	.0083
#2	.0001	.0086	.0075	.0004	.0003	-.0002	-.0003	.0022

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0009	-.0010	-.0001	-.0008	.0001	-.1307	-.0016

#1	-.0006	.0010	-.0007	-.0002	-.0010	.0001	-.1005	-.0004
#2	-.0004	.0008	-.0013	-.0001	-.0006	.0001	-.1609	-.0029

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0455	.0008	.0002	.0003	.0005	.1506	.0119

#1	.0004	.0410	.0005	.0000	.0003	.0005	.1544	.0001
#2	.0007	.0500	.0010	.0004	.0003	.0006	.1467	.0237

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0003	.0025	.00026

#1	-.0001	.0011	-.0025	.00030
#2	.0000	-.0004	.0075	.00021

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5949.0	110330.	1416.3	1453.7

#1	5971.5	110370.	1418.3	1461.9
#2	5926.4	110290.	1414.4	1445.5

Sample Name: K1010850-001      Acquired: 11/11/2010 15:54:50      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158	F .0164	-.0029	.0036	.1010	.00003	F .0074	.0000

#1	.0157	.0148	-.0046	.0041	.1017	.00003	.0077	.0000
#2	.0160	.0179	-.0011	.0030	.1004	.00003	.0072	-.0001

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 128.2	F .0016	.0011	.0008	.0017	.0304	-.0012

#1	.0000	128.1	.0018	.0011	.0009	.0021	.0295	-.0012
#2	.0000	128.3	.0014	.0011	.0007	.0013	.0312	-.0011

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 40.40	.1338	.0022	.0024	6.713	-.0024	.0001	F 28.96

#1	40.50	.1338	.0023	.0024	6.735	-.0014	-.0006	29.13
#2	40.31	.1339	.0022	.0024	6.691	-.0034	.0008	28.80

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0018	F .0052	F .0054	.2343	17.80	.0005	-.0006

#1	.0000	.0018	.0051	.0054	.2293	17.91	.0006	-.0007
#2	.0003	.0019	.0053	.0053	.2394	17.68	.0005	-.0004

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0183	.47350

#1	.0146	.47245
#2	.0220	.47455

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5640.9	104260.	1386.7	1362.6

#1	5660.7	104180.	1393.5	1369.4
#2	5621.1	104330.	1379.8	1355.7

Sample Name: K1010850-002      Acquired: 11/11/2010 15:58:55      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	F -.0009	-.0031	.0034	.0908	-.00002	F .0216	.0000

#1	.0082	-.0019	-.0047	.0038	.0909	-.00001	.0219	-.0001
#2	.0084	.0001	-.0015	.0030	.0907	-.00002	.0213	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 45.80	F .0009	.0032	.0005	.0009	.0242	-.0009

#1	.0000	45.69	.0009	.0033	-.0001	.0003	.0255	-.0012
#2	.0001	45.91	.0008	.0032	.0012	.0016	.0228	-.0005

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 13.25	.0214	-.0001	.0007	F 29.52	-.0017	-.0004	F 84.22

#1	13.29	.0213	-.0003	.0005	29.76	-.0011	-.0002	84.74
#2	13.20	.0214	.0001	.0009	29.28	-.0023	-.0005	83.71

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0051	F .0066	F .0065	.2086	23.80	.0000	.0003

#1	.0005	.0053	.0064	.0066	.2096	24.05	-.0001	-.0009
#2	.0003	.0049	.0067	.0065	.2076	23.55	.0001	.0014

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0131	.24622

#1	.0112	.24656
#2	.0150	.24588

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5726.8	105450.	1382.8	1396.2

#1	5746.4	105390.	1393.6	1400.4
#2	5707.2	105520.	1371.9	1391.9

Sample Name: K1010850-003      Acquired: 11/11/2010 16:02:17      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	F -.0008	-.0009	.0026	.0904	-.00003	F .0119	.0000

#1	.0022	-.0019	-.0019	.0021	.0909	-.00001	.0117	-.0001
#2	.0022	.0002	.0001	.0030	.0899	-.00005	.0121	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 117.1	F .0008	.0009	.0005	.0000	F .0045	-.0015

#1	.0001	117.3	.0008	.0009	.0005	.0003	.0014	-.0026
#2	.0002	117.0	.0008	.0010	.0005	-.0003	.0077	-.0005

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 37.44	.0867	.0003	.0007	F 11.95	-.0024	.0001	F 82.26

#1	37.50	.0866	.0004	.0009	11.92	-.0020	.0003	82.73
#2	37.39	.0868	.0002	.0005	11.98	-.0027	-.0001	81.79

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0046	.0110	.0105	.1910	23.11	-.0003	-.0007

#1	-.0009	.0048	.0110	.0105	.1893	23.16	-.0004	-.0011
#2	.0000	.0045	.0110	.0105	.1928	23.06	-.0002	-.0002

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0168	.63591

#1	.0180	.63703
#2	.0156	.63478

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5470.1	100650.	1332.5	1316.7

#1	5480.3	100560.	1329.7	1317.7
#2	5459.8	100740.	1335.4	1315.8

Sample Name: K1010850-004      Acquired: 11/11/2010 16:05:44      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F .0006	-.0017	.0003	F -.0007	.00001	F -.0012	.0000

#1	.0012	.0027	-.0013	.0019	-.0011	.00002	-.0012	-.0001
#2	.0012	-.0015	-.0021	-.0012	-.0004	.00001	-.0011	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F .0046	.0084	F .0000	.0001	-.0002	-.0004	F -.0045

#1	.0000	-.0053	.0085	.0003	-.0001	-.0002	-.0004	-.0035
#2	.0000	.0144	.0084	-.0002	.0004	-.0002	-.0004	-.0056

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	.0016	F .0061	-.0001	-.0010	.0002	F -.1181	-.0017

#1	-.0016	.0016	.0038	-.0001	-.0011	.0002	-.1757	-.0028
#2	-.0007	.0015	.0085	-.0001	-.0009	.0001	-.0604	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F .1515	.0001	.0003	F .0004	F .0004	.2107	.0006

#1	.0000	.1216	.0003	.0003	.0004	.0004	.2117	-.0045
#2	.0002	.1814	.0000	.0003	.0004	.0004	.2098	.0056

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0011	.0060	.00028

#1	.0000	.0015	.0104	.00027
#2	.0001	.0007	.0016	.00028

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5877.4	108190.	1375.0	1431.4

#1	5892.3	108310.	1382.6	1434.0
#2	5862.5	108070.	1367.4	1428.7

Sample Name: CCVA5      Acquired: 11/11/2010 16:08:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2464	.2395	.2460	.2576	.2384	.24970	.2493	.2459
Stddev	.0013	.0025	.0030	.0039	.0005	.00035	.0012	.0015
%RSD	.5083	1.064	1.203	1.519	.1966	.13981	.4834	.6061

#1	.2455	.2377	.2439	.2604	.2387	.24945	.2485	.2448
#2	.2473	.2413	.2481	.2548	.2380	.24995	.2502	.2469

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	.2386	.2481	.2447	.2462	.2438	.2506	.2495
Stddev	.0004	.0012	.0008	.0002	.0014	.0017	.0007	.0100
%RSD	.1697	.5215	.3254	.0960	.5831	.7061	.2758	4.009

#1	.2475	.2394	.2487	.2449	.2452	.2426	.2501	.2566
#2	.2481	.2377	.2476	.2445	.2472	.2450	.2511	.2425

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445	.2382	.2489	.2477	.2417	.2375	.2456	.2485
Stddev	.0002	.0128	.0012	.0020	.0001	.0044	.0015	.0011
%RSD	.0899	5.374	.4965	.8230	.0533	1.852	.6147	.4255

#1	.2444	.2473	.2498	.2462	.2418	.2406	.2445	.2477
#2	.2447	.2292	.2481	.2491	.2416	.2344	.2466	.2492

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								



Sample Name: CCVA5      Acquired: 11/11/2010 16:08:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.245	.2461	.2482	.3206	.2448	.2438	.2479	.2486
Stddev	.059	.0013	.0004	.0517	.0013	.0001	.0007	.0001
%RSD	2.622	.5232	.1624	16.14	.5202	.0246	.2893	.0453

#1	2.203	.2471	.2485	.2840	.2439	.2438	.2474	.2487
#2	2.286	.2452	.2479	.3571	.2457	.2439	.2484	.2485

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0071	.1259	.2455	.2443	.0066	-.00020
Stddev	.0031	.0084	.0005	.0006	.0002	.00001
%RSD	43.09	6.658	.1942	.2531	2.538	6.4058

#1	-.0093	.1200	.2452	.2438	.0065	-.00019
#2	-.0050	.1319	.2459	.2447	.0067	-.00021

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5903.5	108760.	1403.1	1450.6
Stddev	32.8	290.	7.1	7.7
%RSD	.55598	.26618	.50495	.53124

#1	5926.7	108550.	1398.1	1456.1
#2	5880.3	108960.	1408.2	1445.2

Sample Name: CCVB5      Acquired: 11/11/2010 16:11:20      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.205	9.844	-.0006	1.009	9.986	.00014	.0001	.0000
Stddev	.053	.034	.0014	.006	.046	.00006	.0004	.0000
%RSD	.7364	.3495	219.1	.5606	.4569	45.440	573.4	6.374

#1	7.168	9.820	.0004	1.005	9.954	.00009	-.0002	.0000
#2	7.243	9.869	-.0017	1.013	10.02	.00018	.0003	.0001

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	10.10	9.779	.0001	.0001	.0065	-.0002	10.25
Stddev	.0000	.05	.135	.0001	.0000	.0002	.0001	.04
%RSD	11.61	.4978	1.384	75.55	42.19	2.618	96.06	.3768

#1	.0001	10.06	9.684	.0001	.0000	.0063	-.0003	10.28
#2	.0001	10.13	9.875	.0002	.0001	.0066	.0000	10.23

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	10.24	9.982	10.00	1.001	.9995	-.0005	.0001
Stddev	.0005	.14	.053	.06	.003	.0010	.0003	.0000
%RSD	45.87	1.412	.5277	.5734	.2646	.0969	57.82	14.97

#1	-.0007	10.13	9.945	10.04	1.002	.9988	-.0003	.0001
#2	-.0013	10.34	10.02	9.960	.9986	1.000	-.0007	.0001

Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB5      Acquired: 11/11/2010 16:11:20      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.454	-0.0037	.0003	9.626	-0.0001	.0015	.0003	.0003
Stddev	.060	.0019	.0001	.040	.0012	.0002	.0001	.0000
%RSD	.6369	53.14	41.19	.4184	811.8	16.13	21.66	1.789

#1	9.496	-0.0050	.0004	9.597	-0.0010	.0017	.0003	.0003
#2	9.411	-0.0023	.0002	9.654	.0007	.0014	.0002	.0003

Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.15	10.16	.0004	.0013	.9549	.99552
Stddev	.08	.07	.0000	.0008	.0057	.00327
%RSD	.7904	.7273	.3544	56.69	.5918	.32853

#1	10.09	10.21	.0004	.0008	.9589	.99321
#2	10.21	10.10	.0004	.0019	.9509	.99783

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5630.1	104040.	1391.6	1381.7
Stddev	14.9	37.	11.1	4.6
%RSD	.26463	.03538	.79834	.33258

#1	5640.7	104020.	1399.5	1384.9
#2	5619.6	104070.	1383.8	1378.4

Sample Name: CCB5      Acquired: 11/11/2010 16:15:26      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0025	-.0013	.0017	.0009	.00003	-.0010	.0000
Stddev	.0001	.0033	.0026	.0018	.0005	.00002	.0002	.000
%RSD	31.96	133.0	206.0	108.5	55.78	88.073	17.15	97.05

#1	.0002	-.0048	-.0031	.0004	.0006	.00004	-.0009	.0000
#2	.0002	-.0001	.0006	.0030	.0013	.00001	-.0011	-.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0044	.0003	-.0002	.0001	-.0002	-.0007	-.0016
Stddev	.0000	.0188	.0001	.0001	.0001	.0001	.0001	.0032
%RSD	167.8	425.5	37.98	44.14	193.9	51.93	11.45	199.9

#1	.0000	.0089	.0004	-.0002	.0000	-.0003	-.0008	-.0039
#2	.0000	-.0177	.0002	-.0003	.0001	-.0001	-.0007	.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0167	.0000	.0017	-.0001	.0011	-.0006	-.0001
Stddev	.0003	.0095	.0001	.0040	.0000	.0019	.0001	.0003
%RSD	23.13	56.56	4491.	240.2	17.23	183.2	12.96	552.0

#1	-.0011	-.0100	-.0001	-.0012	-.0001	-.0003	-.0007	.0002
#2	-.0015	-.0234	.0001	.0045	-.0001	.0024	-.0006	-.0003

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB5      Acquired: 11/11/2010 16:15:26      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.1555	-.0010	-.0005	.0058	.0005	.0000	.0000	.0000
Stddev	.0367	.0004	.0003	.0346	.0001	.000	.000	.0001
%RSD	23.61	44.19	59.88	596.4	15.42	.2657	6.645	3739.

#1	-.1815	-.0013	-.0007	-.0187	.0004	.0000	-.0001	-.0001
#2	-.1296	-.0007	-.0003	.0303	.0006	.0000	.0000	.0001

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.1000							
Low Limit	-.1000							

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0097	.0000	.0005	.0051	.00005
Stddev	.0026	.0350	.000	.0004	.0011	.00003
%RSD	83.91	358.6	245.1	79.02	21.47	55.108

#1	-.0050	.0345	-.0001	.0009	.0043	.00007
#2	-.0013	-.0150	.0000	.0002	.0059	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5864.3	107920.	1377.2	1436.9
Stddev	3.1	60.	2.6	.4
%RSD	.05290	.05559	.19228	.02617

#1	5862.1	107960.	1375.3	1437.2
#2	5866.4	107870.	1379.1	1436.7

Service Request #     K1010795      
Calibration     110910BMS03      
QC in calibration     110910BMS03      
QC Service Request #     K1010795      
STARLIMS run #     224560    

### ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u>  X  </u>	<u>    </u>	<u>    </u>
2. ICV within 10 % of true value	<u>  X  </u>	<u>    </u>	<u>    </u>
3. CCV's in control	<u>  X  </u>	<u>    </u>	<u>    </u>
4. CCB's and/or ICB's below MRL	<u>  X  </u>	<u>    </u>	<u>    </u>
5. Method blank below MRL	<u>  X  </u>	<u>    </u>	<u>    </u>
6. LCS in control	<u>  X  </u>	<u>    </u>	<u>    </u>
7. Spike and duplicate in control	<u>  X  </u>	<u>    </u>	<u>    </u>
8. All analytes within instrument linear range	<u>  X  </u>	<u>    </u>	<u>    </u>
9. Adequate rinse out time allowed	<u>  X  </u>	<u>    </u>	<u>    </u>
10. Internal standards in control	<u>  X  </u>	<u>    </u>	<u>    </u>
11. Interferences checked	<u>  X  </u>	<u>    </u>	<u>    </u>
12. Se over MRL	<u>    </u>	<u>  X  </u>	<u>    </u>
13. CRA run	<u>  X  </u>	<u>    </u>	<u>    </u>
14. Cd Correction Applied	<u>    </u>	<u>  X  </u>	<u>    </u>
15. ICSA and ICSAB in control	<u>    </u>	<u>    </u>	<u>  X  </u>
16. Serial dilution run	<u>    </u>	<u>    </u>	<u>  X  </u>
17. Post spike in control	<u>    </u>	<u>    </u>	<u>  X  </u>

Comments:

Primary Review by     JOB      
Secondary Review by                                   
R:\icpl\misc\data review forms\icpms review form

Date   11/10/10    
Date   11/10/10

**Performance Report**

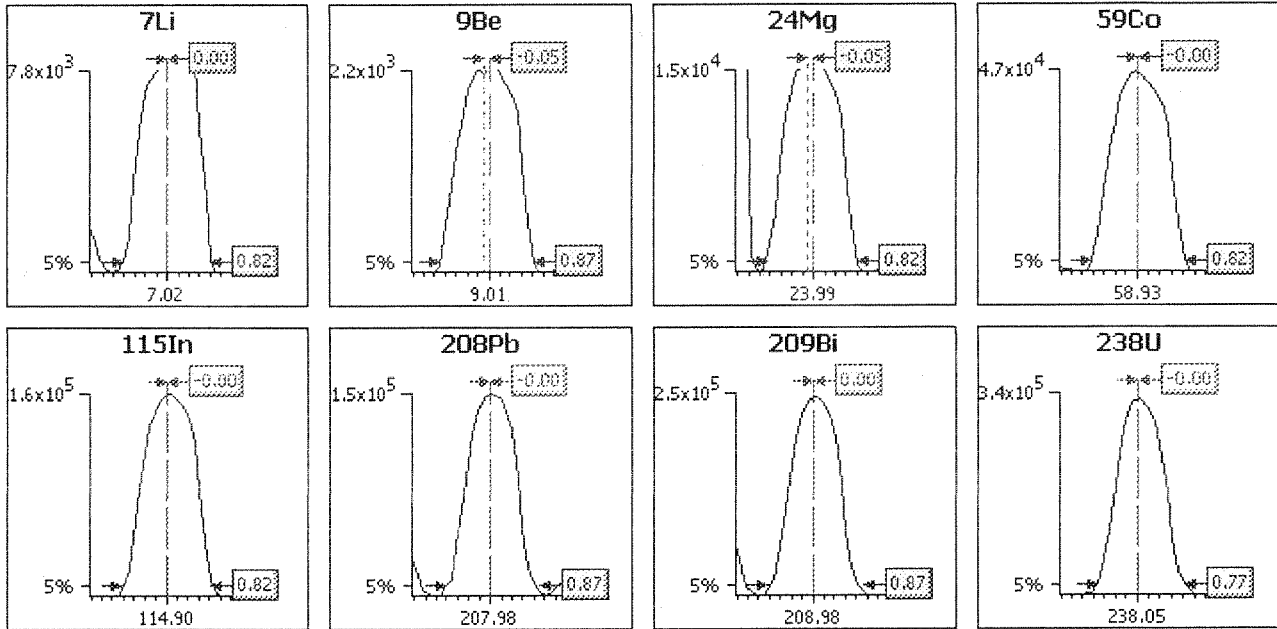
**Sample details**

Acquired at : 11/9/2010 9:38:55 AM  
 Report name : Kelso Performance Report 3 [10/6/2010 2:32:41 PM]

**Mass Calibration verification**

**Acquisition parameters**

Sweeps : 100  
 Dwell : 1.0 mSecs  
 Point spacing : 0.05 amu  
 Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.82	0.00
9Be	0.90	0.60	0.10	0.87	-0.05
24Mg	0.90	0.60	0.10	0.82	-0.05
59Co	0.90	0.60	0.10	0.82	-0.00
115In	0.90	0.60	0.10	0.82	-0.00
208Pb	0.90	0.60	0.10	0.87	-0.00
209Bi	0.90	0.60	0.10	0.87	0.00
238U	0.90	0.60	0.10	0.77	-0.00

**Sample details**

Acquired at : 11/9/2010 9:38:55 AM

Report name : Kelso Performance Report 3 [10/6/2010 2:32:41 PM]

**Tune conditions**

Major		Minor		Global		Add. Gases
Extraction	-149	Lens 2	-18.0	Standard resolution	95	
Lens 1	4.7	Lens 3	-174.9	High resolution	85	
Focus	19.8	Forward power	1247	Analogue Detector	2000	
D1	-40.0	Horizontal	114	PC Detector	4049	
Pole Bias	1.0	Vertical	349			
Hexapole Bias	1.0	D2	-152			
Nebuliser	0.76	DA	-33.7			
Sampling Depth	72	Cool	13.0			
		Auxiliary	0.80			

**Sensitivity and stability results**

**Acquisition parameters**

Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
<b>Dwell (mSecs)</b>		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Limits</b>	<b>%RSD</b>	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	<b>Countrate</b>	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	9:39:26 AM	0.000	8624.339	2035.728	16296.844	46979.074	160288.74	186479.94	1553.883	157996.89
2	9:40:39 AM	0.250	8737.697	2047.981	16298.347	47078.336	160483.89	186779.25	1588.139	157733.12
3	9:41:52 AM	0.500	8707.168	2018.724	16345.932	46788.847	160387.20	186418.71	1569.385	157059.86
4	9:43:05 AM	0.000	8618.083	1986.967	16319.635	46414.435	160026.43	186299.81	1527.378	157192.62
5	9:44:17 AM	0.000	8620.085	1976.465	16106.505	46742.610	159697.21	185353.76	1523.128	156472.10
x		0.150	8661.474	2013.173	16273.453	46800.660	160176.69	186266.29	1552.383	157290.92
σ		0.22	56.73	30.76	95.43	255.74	317.69	539.87	27.62	597.38
%RSD		149.071	0.655	1.528	0.586	0.546	0.198	0.290	1.779	0.380

Run	Time	209Bi	220Bkg	238U
<b>Dwell (mSecs)</b>		10.0	10.0	10.0
<b>Limits</b>	<b>%RSD</b>	5.0%	-	5.0%
	<b>Countrate</b>	>1000	-	>1000
1	9:39:26 AM	245219.02	0.000	334776.18
2	9:40:39 AM	245910.58	0.000	336098.66
3	9:41:52 AM	245089.85	0.000	334557.34
4	9:43:05 AM	244892.90	0.000	334400.48
5	9:44:17 AM	244324.92	0.000	334377.14
x		245087.45	0.000	334841.96
σ		573.18	0.00	720.35
%RSD		0.234	0.000	0.215

**Ratio results**

Run	Time	156Ce O/140Ce
<b>Ratio limits</b>		<0.0200
1	9:39:26 AM	0.008
2	9:40:39 AM	0.009
3	9:41:52 AM	0.008
4	9:43:05 AM	0.008
5	9:44:17 AM	0.008
x		0.0083
σ		0.00
%RSD		1.5598

Result : The performance report passed.



## Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CRA	Unknown	1.000	0	1	4	150
8	K1011605-MB	Unknown	1.000	1	1	1	150
9	LCSW	Unknown	1.000	1	1	2	150
10	K1011605-001	Unknown	1.000	1	1	3	150
11	K1011605-001S	Unknown	1.000	1	1	4	150
12	K1011605-001SD	Unknown	1.000	1	1	5	150
13	K1011605-001 DISS	Unknown	1.000	1	1	6	150
14	K1011605-001 DISSS	Unknown	1.000	1	1	7	150
15	K1011605-001 DISSD	Unknown	1.000	1	1	8	150
16	K1011103-001	Unknown	1.000	1	1	9	150
17	CCV2	Unknown	1.000	0	1	2	150
18	CCB2	Unknown	1.000	0	1	1	150
19	K1011487-001	Unknown	1.000	1	1	10	150
20	K1012425-001	Unknown	1.000	1	1	11	150
21	K1012425-002	Unknown	1.000	1	1	12	150
22	K1012425-003	Unknown	1.000	1	2	1	150
23	K1012425-004	Unknown	1.000	1	2	2	150
24	K1012462-001	Unknown	1.000	1	2	3	150
25	K1010795-MB	Unknown	1.000	1	2	4	150
26	LCSW	Unknown	1.000	1	2	5	150
27	K1010795-001	Unknown	1.000	1	2	6	150
28	K1010795-001D	Unknown	1.000	1	2	7	150
29	CRA	Unknown	1.000	0	1	4	150
30	CCV3	Unknown	1.000	0	1	2	150
31	CCB3	Unknown	1.000	0	1	1	150
32	K1010795-001S	Unknown	1.000	1	2	8	150
33	K1010795-002	Unknown	1.000	1	2	9	150
34	K1010795-003	Unknown	1.000	1	2	10	150
35	K1010850-001	Unknown	1.000	1	2	11	150
36	K1010850-002	Unknown	1.000	1	2	12	150
37	K1010850-003	Unknown	1.000	1	3	1	150
38	K1010850-004	Unknown	1.000	1	3	2	150
39	K1010899-001	Unknown	1.000	1	3	3	150
40	K1010899-002	Unknown	1.000	1	3	4	150
41	CCV4	Unknown	1.000	0	1	2	150
42	CCB4	Unknown	1.000	0	1	1	150
43	K1011360-001	Unknown	1.000	1	3	5	150
44	K1011360-001D	Unknown	1.000	1	3	6	150
45	K1011360-001S	Unknown	1.000	1	3	7	150
46	K1011461-001	Unknown	1.000	1	3	8	150
47	K1011461-002	Unknown	1.000	1	3	9	150
48	K1011461-003	Unknown	1.000	1	3	10	150
49	K1011461-004	Unknown	1.000	1	3	11	150
50	K1011461-005	Unknown	1.000	1	3	12	150
51	K1011461-006	Unknown	1.000	1	4	1	150
52	K1011461-007	Unknown	1.000	1	4	2	150
53	CCV5	Unknown	1.000	0	1	2	150
54	CCB5	Unknown	1.000	0	1	1	150

**Dilution Corrected Concentrations**

Cal. Blk 11/9/2010 10:58:18 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	103.0%	-0.0037	0.0203	-0.0318	-0.0025	2.9397	0.0358	0.0013
2	10:59:26	99.1%	-0.0029	-0.0341	0.0202	0.0053	0.1635	-0.0637	0.0069
3	11:00:33	98.0%	0.0066	0.0138	0.0117	-0.0028	-3.1032	0.0279	-0.0081
x		100.0%	-0.0000	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000
σ		2.6%	0.0057	0.0297	0.0279	0.0046	3.0247	0.0553	0.0076
%RSD		2.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	0.0140	0.0263	-0.0124	0.0015	0.0010	0.0011	0.1950	-0.0148
2	10:59:26	-0.0067	-0.0139	0.0073	0.0034	-0.0019	0.0038	-0.0743	-0.0153
3	11:00:33	-0.0073	-0.0124	0.0051	-0.0049	0.0009	-0.0049	-0.1207	0.0301
x		0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000
σ		0.0121	0.0228	0.0108	0.0044	0.0017	0.0045	0.1705	0.0261
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.0046	0.0002	0.0026	-0.0054	-0.0054	101.0%	0.0973	-0.0827
2	10:59:26	0.0073	0.0053	0.0053	0.0182	0.0049	100.5%	-0.0795	0.1047
3	11:00:33	-0.0028	-0.0054	-0.0079	-0.0128	0.0005	98.5%	-0.0178	-0.0220
x		0.0000	-0.0000	0.0000	-0.0000	0.0000	100.0%	-0.0000	-0.0000
σ		0.0064	0.0053	0.0070	0.0162	0.0051	1.3%	0.0897	0.0956
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.3	0.0000	0.0000
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.3424	0.2810	100.4%	0.0003	-0.0023	0.0018	100.3%	-0.0005
2	10:59:26	0.0880	-0.1995	100.6%	0.0051	0.0053	0.0065	100.1%	0.0009
3	11:00:33	0.2544	-0.0815	99.0%	-0.0054	-0.0030	-0.0083	99.6%	-0.0004
x		0.0000	0.0000	100.0%	0.0000	-0.0000	-0.0000	100.0%	0.0000
σ		0.3079	0.2504	0.9%	0.0053	0.0046	0.0076	0.4%	0.0008
%RSD		0.0000	0.0000	0.9	0.0000	0.0000	0.0000	0.4	0.0000
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	0.0005	0.0003	-0.0000	-0.0001	100.0%	0.0114	0.0061	0.0098
2	10:59:26	-0.0007	-0.0006	-0.0000	-0.0011	100.1%	-0.0033	0.0001	-0.0081
3	11:00:33	0.0003	0.0003	0.0000	0.0013	99.9%	-0.0081	-0.0062	-0.0017
x		-0.0000	0.0000	0.0000	-0.0000	100.0%	-0.0000	0.0000	0.0000
σ		0.0006	0.0005	0.0000	0.0012	0.1%	0.0101	0.0062	0.0091
%RSD		0.0000	0.0000	0.0000	0.0000	0.1	0.0000	0.0000	0.0000
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.0005	0.0024	0.0005	0.0020	0.0014	98.3%	0.0016	0.0022
2	10:59:26	0.0002	-0.0010	0.0025	0.0006	0.0001	100.6%	0.0018	-0.0004
3	11:00:33	0.0002	-0.0013	-0.0030	-0.0026	-0.0015	101.2%	-0.0034	-0.0018
x		-0.0000	0.0000	0.0000	-0.0000	-0.0000	100.0%	-0.0000	-0.0000
σ		0.0004	0.0021	0.0028	0.0023	0.0014	1.5%	0.0030	0.0020
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.5	0.0000	0.0000
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	10:58:18	0.0018	0.0046	0.0019	-0.0018	97.8%	0.0009		
2	10:59:26	0.0001	-0.0004	0.0004	0.0027	100.8%	0.0012		
3	11:00:33	-0.0020	-0.0042	-0.0022	-0.0009	101.4%	-0.0022		
x		-0.0000	0.0000	0.0000	0.0000	100.0%	-0.0000		
σ		0.0019	0.0044	0.0021	0.0024	1.9%	0.0019		
%RSD		0.0000	0.0000	0.0000	0.0000	1.9	0.0000		

Cal. Stn 11/9/2010 11:03:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	105.6%	25.2464	24.2254	23.5190	24.9493	26.1208	25.2126	24.9337
2	11:05:00	99.5%	25.0359	25.5571	25.5064	25.1364	27.0361	24.4539	25.0981
3	11:06:07	98.5%	24.7177	25.2175	25.9746	24.9142	21.8431	25.3334	24.9683
X		101.2%	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		3.9%	0.2662	0.6920	1.3038	0.1195	2.7720	0.4767	0.0867
%RSD		3.8	1.0647	2.7679	5.2151	0.4778	11.0879	1.9070	0.3467
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	24.7497	25.0113	25.4951	24.9471	25.1344	25.2156	26.0872	24.9850
2	11:05:00	25.1105	25.0696	24.7550	25.1604	24.8843	24.8490	24.8607	24.6880
3	11:06:07	25.1398	24.9191	24.7499	24.8925	24.9813	24.9354	24.0521	25.3270
X		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.2173	0.0759	0.4288	0.1416	0.1261	0.1917	1.0247	0.3198
%RSD		0.8690	0.3037	1.7152	0.5663	0.5044	0.7666	4.0988	1.2792
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	25.0360	25.2493	24.7954	25.1466	25.1945	101.5%	25.2816	24.4723
2	11:05:00	25.1169	24.8998	24.9030	25.1801	24.5634	100.0%	24.5927	25.5692
3	11:06:07	24.8471	24.8509	25.3015	24.6734	25.2421	99.2%	25.1257	24.9585
X		25.0000	25.0000	25.0000	25.0000	25.0000	100.2%	25.0000	25.0000
σ		0.1384	0.2173	0.2666	0.2834	0.3789	1.1%	0.3613	0.5496
%RSD		0.5538	0.8691	1.0665	1.1335	1.5155	1.1	1.4451	2.1985
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	24.8986	25.1878	101.0%	24.2639	24.2910	24.5199	101.6%	24.8176
2	11:05:00	25.1768	24.8603	100.7%	24.9748	24.9065	25.0485	100.9%	25.0788
3	11:06:07	24.9247	24.9519	99.1%	25.7613	25.8025	25.4316	100.6%	25.1037
X		25.0000	25.0000	100.3%	25.0000	25.0000	25.0000	101.0%	25.0000
σ		0.1536	0.1689	1.0%	0.7490	0.7601	0.4578	0.5%	0.1585
%RSD		0.6146	0.6757	1.0	2.9960	3.0402	1.8311	0.5	0.6339
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	24.9074	24.8890	24.7817	24.7738	102.2%	24.6978	24.8459	24.7251
2	11:05:00	24.9960	25.0532	25.0243	25.1142	102.8%	25.0918	24.9861	25.1275
3	11:06:07	25.0967	25.0578	25.1940	25.1119	102.4%	25.2103	25.1680	25.1473
X		25.0000	25.0000	25.0000	25.0000	102.5%	25.0000	25.0000	25.0000
σ		0.0947	0.0962	0.2072	0.1959	0.3%	0.2683	0.1615	0.2383
%RSD		0.3789	0.3846	0.8289	0.7835	0.3	1.0733	0.6461	0.9530
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:03:52	24.7898	24.6790	24.7201	24.8508	24.6748	100.4%	24.7856	24.9159
2	11:05:00	25.2081	25.1357	25.3158	24.9799	25.1385	102.6%	25.1570	25.0853
3	11:06:07	25.0021	25.1853	24.9641	25.1693	25.1867	103.3%	25.0574	24.9988
X		25.0000	25.0000	25.0000	25.0000	25.0000	102.1%	25.0000	25.0000
σ		0.2091	0.2791	0.2995	0.1602	0.2827	1.5%	0.1922	0.0847
%RSD		0.8366	1.1163	1.1979	0.6409	1.1307	1.5	0.7690	0.3388
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:03:52	24.8246	24.8225	24.7909	24.8307	100.5%	24.8516		
2	11:05:00	25.1235	25.0859	25.1254	25.0774	104.0%	25.0523		
3	11:06:07	25.0519	25.0916	25.0838	25.0919	105.4%	25.0960		
X		25.0000	25.0000	25.0000	25.0000	103.3%	25.0000		
σ		0.1560	0.1537	0.1823	0.1468	2.5%	0.1303		
%RSD		0.6242	0.6149	0.7293	0.5871	2.4	0.5213		

ICV1 11/9/2010 11:14:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	104.9%	2.5227	25.7958	25.3347	99.8338	20.2678	26.3779	26.1779
2	11:15:28	97.0%	2.5275	25.9828	27.0918	100.9996	23.9915	26.4722	26.5969
3	11:16:35	96.3%	2.5221	26.4778	27.1459	99.8939	26.1279	24.5858	26.4161
x		99.4%	2.5241	26.0855	26.5241	100.2424	23.4624	25.8120	26.3970
σ		4.8%	0.0030	0.3524	1.0304	0.6564	2.9657	1.0629	0.2102
%RSD		4.8	0.1169	1.3510	3.8847	0.6548	12.6402	4.1180	0.7961
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.7720	9.8834	10.0011	24.8386	24.8096	24.8529	25.8064	24.9018
2	11:15:28	24.9928	9.9005	10.1657	25.3282	24.9655	24.8755	24.1935	24.6785
3	11:16:35	25.0730	10.0835	10.3404	25.4004	25.2967	24.7357	25.2605	24.4704
x		24.9459	9.9558	10.1691	25.1891	25.0239	24.8214	25.0868	24.6836
σ		0.1559	0.1110	0.1697	0.3057	0.2487	0.0750	0.8204	0.2157
%RSD		0.6249	1.1145	1.6685	1.2135	0.9939	0.3022	3.2702	0.8740
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	12.4140	12.5847	24.8380	28.5325	27.1853	100.5%	24.5232	25.6735
2	11:15:28	12.3932	12.1881	25.1655	29.3676	27.5197	98.3%	24.9300	24.4837
3	11:16:35	12.6800	12.6020	25.5873	28.0988	27.0611	97.6%	24.9016	25.7440
x		12.4957	12.4583	25.1969	28.6663	27.2554	98.8%	24.7850	25.3004
σ		0.1599	0.2342	0.3757	0.6449	0.2372	1.5%	0.2271	0.7081
%RSD		1.2798	1.8797	1.4909	2.2498	0.8702	1.5	0.9164	2.7989
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.8577	24.3078	100.4%	24.7705	24.8878	24.8070	101.3%	12.3316
2	11:15:28	24.7599	24.0656	98.0%	25.5217	25.7517	25.8556	100.2%	12.4106
3	11:16:35	25.3309	23.7879	98.9%	25.8014	26.1841	26.2320	98.9%	12.5662
x		24.9829	24.0538	99.1%	25.3646	25.6079	25.6316	100.1%	12.4361
σ		0.3054	0.2602	1.2%	0.5331	0.6600	0.7385	1.2%	0.1194
%RSD		1.2224	1.0816	1.2	2.1018	2.5774	2.8810	1.2	0.9598
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	12.4009	12.6790	13.1087	12.9239	102.1%	21.4028	25.1805	25.1534
2	11:15:28	12.3984	12.6437	13.0820	12.8453	102.7%	21.5187	25.5607	25.0426
3	11:16:35	12.4551	12.6753	13.2106	12.9330	103.1%	21.3645	25.3809	25.1085
x		12.4181	12.6660	13.1337	12.9007	102.6%	21.4287	25.3740	25.1015
σ		0.0320	0.0194	0.0679	0.0482	0.5%	0.0803	0.1902	0.0557
%RSD		0.2579	0.1533	0.5166	0.3739	0.5	0.3747	0.7495	0.2219
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.8229	24.5026	100.5267	100.6821	102.8235	101.0%	25.0916	25.1144
2	11:15:28	24.8268	24.3626	100.8182	101.2055	103.2853	103.0%	24.8831	25.0193
3	11:16:35	25.0796	24.4914	100.3048	101.6209	103.5286	103.7%	25.0541	25.1576
x		24.9097	24.4522	100.5499	101.1695	103.2125	102.6%	25.0096	25.0971
σ		0.1471	0.0778	0.2575	0.4705	0.3581	1.4%	0.1112	0.0708
%RSD		0.5905	0.3183	0.2561	0.4650	0.3470	1.4	0.4445	0.2820
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:14:21	25.9122	24.6667	25.0302	26.1424	100.1%	25.6523		
2	11:15:28	25.6816	24.7265	25.0509	26.1315	103.4%	25.5260		
3	11:16:35	25.9391	24.8617	25.1518	26.3434	104.3%	25.6679		
x		25.8443	24.7516	25.0776	26.2058	102.6%	25.6154		
σ		0.1415	0.0999	0.0651	0.1193	2.2%	0.0778		
%RSD		0.5475	0.4036	0.2594	0.4554	2.2	0.3037		

CCV1 11/9/2010 11:24:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	101.6%	25.6529	26.7798	25.2571	25.4126	35.6273	25.1069	24.8151
2	11:25:56	99.5%	24.8505	24.8258	24.7765	24.5454	25.0384	25.7276	24.7742
3	11:27:03	95.7%	26.1246	26.6295	26.3010	25.1767	43.6651	23.5446	25.2525
X		98.9%	25.5427	26.0784	25.4449	25.0449	34.7769	24.7931	24.9473
σ		3.0%	0.6442	1.0873	0.7794	0.4484	9.3424	1.1249	0.2651
%RSD		3.0	2.5221	4.1694	3.0630	1.7902	26.8637	4.5370	1.0627
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.7723	24.9209	25.1302	25.0540	25.1146	25.6030	26.2010	24.9075
2	11:25:56	24.1441	24.3656	24.8671	24.5361	24.5583	24.9674	24.7208	24.2169
3	11:27:03	25.1864	25.3589	25.6003	25.3057	25.1061	25.3361	24.0224	24.8296
X		24.7010	24.8818	25.1992	24.9653	24.9263	25.3021	24.9814	24.6513
σ		0.5248	0.4978	0.3714	0.3924	0.3187	0.3191	1.1124	0.3782
%RSD		2.1246	2.0008	1.4739	1.5719	1.2787	1.2612	4.4531	1.5343
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	25.1676	25.9737	25.0006	26.1976	25.0187	99.6%	24.9365	25.6424
2	11:25:56	24.6948	24.8294	24.9025	25.1124	24.4524	99.2%	24.9991	23.4622
3	11:27:03	25.0689	25.4560	25.2608	24.9799	25.6307	97.7%	25.4535	25.4935
X		24.9771	25.4197	25.0546	25.4300	25.0339	98.8%	25.1297	24.8661
σ		0.2494	0.5730	0.1852	0.6681	0.5893	1.0%	0.2821	1.2180
%RSD		0.9985	2.2540	0.7392	2.6270	2.3541	1.0	1.1226	4.8984
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.3142	23.9810	101.3%	24.4141	24.5831	24.7540	101.6%	24.7509
2	11:25:56	24.0112	24.3434	100.2%	24.9409	25.0372	25.0130	100.5%	24.6743
3	11:27:03	26.1705	25.1425	97.4%	25.3124	25.7121	25.6960	99.8%	25.6050
X		24.8320	24.4890	99.6%	24.8891	25.1108	25.1543	100.6%	25.0101
σ		1.1690	0.5943	2.0%	0.4513	0.5681	0.4867	0.9%	0.5166
%RSD		4.7078	2.4268	2.0	1.8134	2.2622	1.9347	0.9	2.0657
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.6214	24.5102	24.3926	24.7819	101.6%	24.7676	25.0594	24.6465
2	11:25:56	24.6136	24.6045	24.3715	24.4662	104.3%	24.4357	24.7512	24.5205
3	11:27:03	25.3275	25.3375	24.9811	25.2355	101.8%	25.0534	25.2778	25.1879
X		24.8542	24.8174	24.5817	24.8279	102.6%	24.7522	25.0295	24.7850
σ		0.4100	0.4529	0.3460	0.3867	1.5%	0.3091	0.2645	0.3546
%RSD		1.6495	1.8248	1.4075	1.5576	1.5	1.2489	1.0569	1.4308
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.9369	24.9876	24.6998	24.8294	24.9960	99.5%	24.9421	24.9631
2	11:25:56	24.6465	24.3365	24.5070	24.5424	24.3951	103.8%	24.5956	24.7222
3	11:27:03	25.3467	25.3378	24.8646	24.9090	25.0729	102.5%	25.1795	25.1465
X		24.9767	24.8873	24.6905	24.7602	24.8213	101.9%	24.9057	24.9439
σ		0.3518	0.5081	0.1790	0.1928	0.3711	2.2%	0.2936	0.2128
%RSD		1.4085	2.0417	0.7250	0.7786	1.4952	2.1	1.1790	0.8531
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:24:49	25.0946	24.9966	25.0529	25.0795	101.3%	24.9569		
2	11:25:56	24.5433	24.5549	24.5655	24.4747	104.8%	24.6315		
3	11:27:03	25.1688	25.0461	25.0537	25.1674	105.6%	24.9059		
X		24.9356	24.8659	24.8907	24.9072	103.9%	24.8314		
σ		0.3417	0.2704	0.2816	0.3771	2.3%	0.1750		
%RSD		1.3704	1.0876	1.1315	1.5140	2.2	0.7049		

ICBI 11/9/2010 11:45:44 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	99.7%	-0.0175	0.0090	-0.0897	-0.0142	-2.8693	0.0740	-0.0041
2	11:46:51	94.7%	0.0019	0.0248	-0.1255	-0.0146	16.7275	0.1283	-0.0141
3	11:47:58	93.4%	-0.0209	-0.1123	-0.1180	-0.0161	-4.2916	0.0039	-0.0020
x		95.9%	-0.0121	-0.0262	-0.1111	-0.0150	3.1889	0.0687	-0.0067
σ		3.3%	0.0123	0.0750	0.0189	0.0010	11.7463	0.0624	0.0065
%RSD		3.5	101.4573	286.6130	16.9827	6.5630	368.3551	90.7355	96.3015
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0177	0.0457	-0.0090	0.0009	-0.0101	0.0031	0.1714	0.0060
2	11:46:51	0.0051	0.0047	-0.0085	-0.0031	-0.0086	0.0036	0.1321	0.0378
3	11:47:58	-0.0105	-0.0283	0.0032	-0.0019	-0.0048	-0.0072	0.0987	0.0254
x		0.0041	0.0073	-0.0048	-0.0014	-0.0078	-0.0001	0.1341	0.0231
σ		0.0141	0.0371	0.0069	0.0021	0.0027	0.0061	0.0364	0.0160
%RSD		345.0629	504.4345	145.4518	148.7789	34.9143	4394.4385	27.1460	69.3472
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	-0.0098	0.0040	0.0066	0.0037	0.0045	96.7%	0.0933	-0.0953
2	11:46:51	-0.0067	0.0023	-0.0043	-0.0122	0.0284	94.8%	-0.0746	-0.0537
3	11:47:58	-0.0094	0.0074	-0.0019	-0.0123	0.0032	95.7%	-0.0664	0.0641
x		-0.0087	0.0046	0.0001	-0.0069	0.0120	95.8%	-0.0159	-0.0283
σ		0.0017	0.0026	0.0058	0.0092	0.0142	1.0%	0.0946	0.0827
%RSD		19.6298	56.6319	4587.4133	132.8041	117.7817	1.0	595.1045	292.3492
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	-0.0570	0.2491	97.0%	0.0059	0.0065	0.0149	99.1%	0.0025
2	11:46:51	0.4557	-0.3223	96.8%	0.0161	0.0246	0.0142	95.9%	0.0003
3	11:47:58	0.4076	-0.1836	95.3%	-0.0018	0.0087	0.0083	97.2%	-0.0005
x		0.2688	-0.0856	96.4%	0.0067	0.0132	0.0124	97.4%	0.0008
σ		0.2831	0.2980	0.9%	0.0090	0.0099	0.0036	1.6%	0.0016
%RSD		105.3455	348.1711	0.9	133.0539	74.7655	29.1013	1.7	210.0067
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0013	0.0028	-0.0019	-0.0010	98.4%	0.0350	-0.0078	0.0043
2	11:46:51	-0.0004	-0.0006	-0.0047	0.0001	97.5%	0.0125	0.0225	0.0128
3	11:47:58	0.0012	0.0003	-0.0004	-0.0020	97.1%	-0.0105	-0.0030	-0.0090
x		0.0007	0.0009	-0.0023	-0.0010	97.7%	0.0124	0.0039	0.0027
σ		0.0010	0.0018	0.0022	0.0010	0.7%	0.0228	0.0163	0.0110
%RSD		143.0237	205.0818	92.0070	104.3122	0.7	184.3778	414.1753	402.2253
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0013	0.0024	-0.0138	-0.0041	-0.0051	97.4%	-0.0055	-0.0057
2	11:46:51	0.0015	0.0015	-0.0161	-0.0092	-0.0065	99.0%	-0.0077	-0.0067
3	11:47:58	0.0003	0.0006	-0.0149	-0.0079	-0.0082	99.4%	-0.0079	-0.0059
x		0.0010	0.0015	-0.0149	-0.0070	-0.0066	98.6%	-0.0070	-0.0061
σ		0.0007	0.0009	0.0011	0.0026	0.0015	1.1%	0.0013	0.0005
%RSD		63.0448	61.2364	7.5394	37.6838	23.4963	1.1	19.0402	8.6364
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:45:44	-0.0023	-0.0064	-0.0047	-0.0093	97.9%	-0.0061		
2	11:46:51	-0.0028	-0.0075	-0.0070	-0.0103	100.4%	-0.0061		
3	11:47:58	-0.0070	-0.0046	-0.0060	-0.0109	100.6%	-0.0071		
x		-0.0040	-0.0062	-0.0059	-0.0102	99.6%	-0.0064		
σ		0.0026	0.0015	0.0012	0.0008	1.5%	0.0006		
%RSD		63.5088	23.6127	19.8621	7.6527	1.5	9.2337		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	102.2%	-0.0088	0.0451	-0.0409	-0.0088	2.5270	-0.0030	-0.0005
2	11:53:11	97.8%	-0.0100	0.0597	-0.0314	0.0077	5.5695	0.0610	-0.0171
3	11:54:19	95.0%	0.0019	-0.0226	-0.0854	-0.0189	5.9448	0.0034	-0.0142
x		98.3%	-0.0056	0.0274	-0.0526	-0.0067	4.6804	0.0205	-0.0106
σ		3.6%	0.0065	0.0439	0.0288	0.0134	1.8744	0.0353	0.0089
%RSD		3.7	115.5996	160.1892	54.8424	200.9783	40.0471	172.3538	83.9788
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0095	0.0139	-0.0148	0.0001	-0.0050	-0.0022	0.1665	0.0542
2	11:53:11	-0.0017	-0.0128	-0.0031	-0.0008	-0.0092	-0.0034	-0.1118	0.0584
3	11:54:19	0.0013	-0.0017	-0.0056	-0.0036	-0.0076	-0.0005	0.0999	-0.0013
x		0.0030	-0.0002	-0.0079	-0.0015	-0.0072	-0.0020	0.0515	0.0371
σ		0.0058	0.0134	0.0062	0.0019	0.0021	0.0015	0.1453	0.0333
%RSD		190.3523	7059.4442	78.8336	131.7255	29.1643	72.1258	281.9150	89.8391
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0025	-0.0023	-0.0038	-0.0045	0.0130	97.0%	0.1055	-0.0376
2	11:53:11	-0.0082	-0.0011	-0.0074	-0.0043	0.0012	96.4%	0.0633	-0.0560
3	11:54:19	-0.0114	0.0012	0.0100	0.0043	-0.0037	95.2%	-0.0057	-0.0146
x		-0.0057	-0.0007	-0.0004	-0.0015	0.0035	96.2%	0.0544	-0.0361
σ		0.0073	0.0018	0.0092	0.0050	0.0086	0.9%	0.0561	0.0207
%RSD		127.1196	249.1576	2235.8008	329.5765	246.9427	0.9	103.2501	57.5099
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	-0.0963	0.3592	97.2%	-0.0146	-0.0123	-0.0072	98.1%	0.0002
2	11:53:11	0.3331	0.1803	96.9%	-0.0125	-0.0179	-0.0116	98.7%	-0.0012
3	11:54:19	-0.2778	-0.0427	96.3%	-0.0091	-0.0073	-0.0084	96.8%	-0.0002
x		-0.0137	0.1656	96.8%	-0.0121	-0.0125	-0.0090	97.9%	-0.0004
σ		0.3137	0.2014	0.5%	0.0027	0.0053	0.0023	1.0%	0.0007
%RSD		2295.9633	121.6124	0.5	22.7551	42.4858	25.2527	1.0	196.8591
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0006	0.0012	0.0029	0.0015	97.2%	0.0345	0.0157	0.0184
2	11:53:11	0.0013	0.0011	-0.0023	0.0000	98.3%	-0.0160	0.0146	0.0124
3	11:54:19	-0.0001	0.0011	-0.0035	-0.0017	98.5%	-0.0057	-0.0069	-0.0191
x		0.0006	0.0011	-0.0010	-0.0001	98.0%	0.0043	0.0078	0.0039
σ		0.0007	0.0000	0.0034	0.0016	0.7%	0.0267	0.0127	0.0201
%RSD		114.8720	0.7139	352.1248	1930.8031	0.7	625.8048	162.8565	515.6649
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0003	0.0003	-0.0013	-0.0078	-0.0108	97.8%	-0.0091	-0.0074
2	11:53:11	-0.0005	-0.0016	-0.0094	-0.0048	-0.0088	98.8%	-0.0085	-0.0080
3	11:54:19	0.0003	0.0012	-0.0150	-0.0099	-0.0094	99.5%	-0.0079	-0.0062
x		0.0000	-0.0001	-0.0085	-0.0075	-0.0097	98.7%	-0.0085	-0.0072
σ		0.0004	0.0014	0.0069	0.0026	0.0010	0.8%	0.0006	0.0009
%RSD		1237.3150	2275.6758	80.9630	34.3543	10.6198	0.9	7.0505	12.8784
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:52:04	-0.0014	-0.0060	-0.0055	-0.0133	97.1%	-0.0063		
2	11:53:11	-0.0042	-0.0047	-0.0052	-0.0124	100.3%	-0.0067		
3	11:54:19	-0.0056	-0.0069	-0.0054	-0.0127	100.2%	-0.0081		
x		-0.0037	-0.0059	-0.0054	-0.0128	99.2%	-0.0070		
σ		0.0021	0.0011	0.0001	0.0004	1.8%	0.0010		
%RSD		57.1999	18.6676	2.4780	3.4410	1.8	13.8698		

CRA 11/9/2010 11:57:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	103.8%	0.0101	0.6984	0.3642	1.9650	1.5931	0.1283	0.0867
2	11:58:32	95.1%	0.0246	0.5087	0.3966	2.0361	17.2366	0.0035	0.1071
3	11:59:39	95.2%	0.0113	0.3692	0.4546	1.9815	-4.6666	0.2026	0.0942
X		98.0%	0.0153	0.5255	0.4051	1.9942	4.7210	0.1115	0.0960
σ		5.0%	0.0081	0.1652	0.0458	0.0372	11.2817	0.1006	0.0103
%RSD		5.1	52.4645	31.4442	11.3004	1.8658	238.9651	90.2627	10.7410
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.2062	0.2379	0.2025	0.0499	0.0089	0.1883	0.4438	0.1895
2	11:58:32	0.1942	0.2176	0.2183	0.0560	0.0137	0.2240	0.0422	0.2083
3	11:59:39	0.1892	0.2090	0.2343	0.0586	0.0065	0.1875	0.2986	0.2351
X		0.1965	0.2215	0.2184	0.0548	0.0097	0.1999	0.2615	0.2109
σ		0.0088	0.0149	0.0159	0.0045	0.0037	0.0208	0.2033	0.0229
%RSD		4.4565	6.7071	7.2761	8.1398	37.6679	10.4097	77.7427	10.8585
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.1022	0.0899	0.4563	0.4057	0.5213	97.5%	0.5754	0.9290
2	11:58:32	0.1051	0.0974	0.4449	0.5261	0.5211	95.1%	0.4494	1.0878
3	11:59:39	0.0894	0.0923	0.5076	0.4559	0.4674	95.9%	0.5572	0.9872
X		0.0989	0.0932	0.4696	0.4626	0.5033	96.2%	0.5273	1.0013
σ		0.0084	0.0038	0.0334	0.0605	0.0311	1.2%	0.0681	0.0803
%RSD		8.4654	4.1129	7.1096	13.0823	6.1787	1.3	12.9169	8.0238
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	1.0144	1.0510	96.8%	0.0383	0.0338	0.0318	98.0%	0.0210
2	11:58:32	1.4195	0.6707	96.6%	0.0217	0.0436	0.0335	96.7%	0.0204
3	11:59:39	0.7232	1.0105	95.4%	0.0335	0.0425	0.0221	97.4%	0.0207
X		1.0524	0.9107	96.3%	0.0312	0.0399	0.0292	97.4%	0.0207
σ		0.3497	0.2088	0.7%	0.0085	0.0054	0.0062	0.7%	0.0003
%RSD		33.2291	22.9297	0.8	27.3837	13.4536	21.0926	0.7	1.3833
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.0224	0.0140	0.0308	0.0288	97.2%	0.1179	0.2038	0.1856
2	11:58:32	0.0211	0.0175	0.0233	0.0260	97.2%	0.1090	0.1792	0.1692
3	11:59:39	0.0241	0.0192	0.0357	0.0236	96.9%	0.0749	0.1720	0.1512
X		0.0225	0.0169	0.0300	0.0262	97.1%	0.1006	0.1850	0.1687
σ		0.0015	0.0027	0.0062	0.0026	0.1%	0.0227	0.0167	0.0172
%RSD		6.7699	15.7105	20.7257	9.9008	0.1	22.5942	9.0104	10.2840
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.0617	0.0655	0.0443	0.0537	0.0385	97.7%	0.0166	0.0125
2	11:58:32	0.0595	0.0570	0.0414	0.0505	0.0453	100.1%	0.0166	0.0152
3	11:59:39	0.0644	0.0664	0.0530	0.0495	0.0424	99.6%	0.0150	0.0128
X		0.0619	0.0629	0.0462	0.0512	0.0420	99.1%	0.0161	0.0135
σ		0.0025	0.0052	0.0060	0.0022	0.0034	1.3%	0.0009	0.0015
%RSD		3.9954	8.2241	12.9969	4.3238	8.2038	1.3	5.7324	10.9373
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:57:24	0.0124	0.0156	0.0123	0.0342		98.0%		0.0114
2	11:58:32	0.0172	0.0153	0.0149	0.0360		100.7%		0.0128
3	11:59:39	0.0152	0.0094	0.0130	0.0392		101.3%		0.0123
X		0.0150	0.0134	0.0134	0.0364		100.0%		0.0122
σ		0.0024	0.0035	0.0014	0.0025		1.8%		0.0007
%RSD		15.9174	25.8343	10.1861	6.9306		1.8		5.8379

JES  
11/10/10



K1011605-MB 11/9/2010 12:07:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	99.2%	-0.0156	-0.0559	-0.1625	0.0579	5.6565	-0.0007	-0.0080
2	12:08:47	95.2%	-0.0134	-0.0462	-0.1813	0.0640	12.2964	-0.1047	-0.0033
3	12:09:55	94.2%	-0.0132	-0.0903	-0.0785	0.0561	14.5229	-0.0582	-0.0020
X		96.2%	-0.0141	-0.0641	-0.1408	0.0593	10.8253	-0.0545	-0.0044
σ		2.6%	0.0013	0.0231	0.0548	0.0041	4.6126	0.0521	0.0031
%RSD		2.7	9.5271	36.0941	38.8979	6.9699	42.6098	95.4442	70.6784
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0087	0.0166	-0.0090	0.0066	-0.0119	-0.0047	0.2018	0.0303
2	12:08:47	0.0022	-0.0040	-0.0144	0.0089	-0.0066	0.0050	0.3974	0.0229
3	12:09:55	-0.0055	-0.0171	-0.0027	0.0056	-0.0048	0.0009	0.1873	0.0688
X		0.0018	-0.0015	-0.0087	0.0070	-0.0078	0.0004	0.2622	0.0406
σ		0.0071	0.0170	0.0059	0.0017	0.0037	0.0049	0.1174	0.0247
%RSD		387.1411	1143.9763	67.7647	24.3212	47.9396	1257.5171	44.7602	60.6727
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0058	0.0040	0.0751	0.0200	0.0586	96.6%	0.0201	-0.0373
2	12:08:47	-0.0077	0.0202	0.0697	0.0461	0.0820	94.6%	0.0616	-0.0120
3	12:09:55	0.0105	0.0241	0.0611	0.1116	0.0970	95.4%	0.0383	-0.0739
X		0.0029	0.0161	0.0686	0.0593	0.0792	95.5%	0.0400	-0.0411
σ		0.0094	0.0107	0.0071	0.0472	0.0194	1.0%	0.0208	0.0311
%RSD		330.3909	66.2239	10.3527	79.6224	24.4299	1.1	52.0858	75.7439
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.1349	0.0412	97.7%	-0.0395	-0.0391	-0.0339	97.7%	0.0000
2	12:08:47	0.4939	0.2122	94.6%	-0.0284	-0.0310	-0.0284	97.4%	-0.0002
3	12:09:55	-0.0310	0.0694	96.3%	-0.0329	-0.0299	-0.0337	96.5%	-0.0011
X		0.1992	0.1076	96.2%	-0.0336	-0.0333	-0.0320	97.2%	-0.0004
σ		0.2683	0.0917	1.6%	0.0056	0.0050	0.0031	0.7%	0.0006
%RSD		134.6674	85.2183	1.6	16.6584	15.0877	9.7086	0.7	148.8994
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	-0.0007	0.0020	-0.0035	0.0007	97.8%	-0.0048	0.0038	0.0050
2	12:08:47	0.0016	0.0012	-0.0030	-0.0010	97.3%	-0.0083	0.0073	-0.0111
3	12:09:55	0.0010	-0.0006	-0.0055	-0.0031	97.0%	-0.0480	-0.0255	-0.0242
X		0.0006	0.0009	-0.0040	-0.0011	97.4%	-0.0203	-0.0048	-0.0101
σ		0.0012	0.0013	0.0013	0.0019	0.4%	0.0240	0.0180	0.0146
%RSD		184.6547	150.2450	33.1870	172.6959	0.4	117.9411	374.4972	144.4207
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0005	-0.0007	-0.0127	-0.0098	-0.0117	98.7%	-0.0099	-0.0082
2	12:08:47	0.0008	-0.0007	-0.0082	-0.0072	-0.0083	99.0%	-0.0081	-0.0092
3	12:09:55	0.0000	-0.0016	-0.0104	-0.0091	-0.0109	98.9%	-0.0081	-0.0097
X		0.0005	-0.0010	-0.0104	-0.0087	-0.0103	98.8%	-0.0087	-0.0090
σ		0.0004	0.0005	0.0023	0.0013	0.0018	0.2%	0.0010	0.0008
%RSD		82.2557	54.4231	21.8372	15.2532	17.4621	0.2	11.4085	8.6650
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:07:40	-0.0038	-0.0061	-0.0058	-0.0163	97.9%	-0.0092		
2	12:08:47	-0.0042	-0.0065	-0.0069	-0.0150	100.2%	-0.0090		
3	12:09:55	-0.0069	-0.0061	-0.0070	-0.0155	100.6%	-0.0092		
X		-0.0050	-0.0062	-0.0066	-0.0156	99.6%	-0.0091		
σ		0.0017	0.0002	0.0007	0.0006	1.5%	0.0001		
%RSD		34.5626	3.4684	10.5271	4.1474	1.5	1.3896		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	99.3%	20.4936	19.9168	21.0550	20.3920	22.9284	21.8217	21.1065
2	12:13:51	94.9%	20.9792	21.2576	21.7927	20.2438	23.9399	21.9168	20.7405
3	12:14:58	93.5%	20.4437	21.9767	21.1902	20.2602	27.7806	21.4492	20.7221
X		95.9%	20.6388	21.0504	21.3460	20.2987	24.8830	21.7292	20.8563
σ		3.0%	0.2958	1.0455	0.3927	0.0813	2.5599	0.2472	0.2168
%RSD		3.1	1.4331	4.9665	1.8399	0.4003	10.2878	1.1375	1.0395
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.2007	20.2982	20.1697	20.0376	20.0198	20.1674	20.3166	19.9154
2	12:13:51	19.6478	19.9108	19.8763	20.1091	19.9991	20.3223	19.4185	19.8726
3	12:14:58	19.8660	20.2061	20.9196	20.1819	19.9826	20.4767	19.9321	19.8641
X		19.9048	20.1384	20.3219	20.1096	20.0005	20.3221	19.8891	19.8840
σ		0.2785	0.2024	0.5380	0.0722	0.0187	0.1546	0.4506	0.0275
%RSD		1.3993	1.0049	2.6475	0.3588	0.0933	0.7608	2.2654	0.1385
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.3008	20.5027	20.4013	20.8140	20.1275	97.1%	19.2563	19.2836
2	12:13:51	19.9448	20.3891	20.4873	20.1162	20.7768	94.8%	19.9389	19.5994
3	12:14:58	20.3446	20.5832	21.0634	21.2579	20.8366	93.7%	19.5421	20.4568
X		20.1967	20.4917	20.6507	20.7294	20.5803	95.2%	19.5791	19.7799
σ		0.2193	0.0975	0.3600	0.5755	0.3933	1.7%	0.3428	0.6071
%RSD		1.0858	0.4758	1.7434	2.7765	1.9109	1.8	1.7507	3.0690
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	19.5525	18.6523	97.7%	19.8173	19.9614	19.7756	98.2%	20.1766
2	12:13:51	19.1238	19.8951	97.0%	20.1145	20.1078	20.3789	97.9%	20.3107
3	12:14:58	19.5320	19.2929	96.4%	20.3156	20.7239	20.6140	97.8%	20.3959
X		19.4028	19.2801	97.0%	20.0824	20.2644	20.2562	98.0%	20.2944
σ		0.2418	0.6215	0.7%	0.2507	0.4046	0.4325	0.2%	0.1105
%RSD		1.2464	3.2234	0.7	1.2483	1.9967	2.1349	0.2	0.5446
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.1480	20.0420	20.0370	19.9876	99.0%	20.3040	20.6235	20.5100
2	12:13:51	20.2495	20.3390	20.0406	19.9793	99.3%	20.2706	20.5558	20.6525
3	12:14:58	20.2596	20.1721	20.0930	20.1393	99.7%	20.2956	20.6107	20.4926
X		20.2191	20.1844	20.0568	20.0354	99.3%	20.2901	20.5967	20.5517
σ		0.0617	0.1489	0.0314	0.0901	0.4%	0.0174	0.0360	0.0877
%RSD		0.3052	0.7375	0.1564	0.4495	0.4	0.0856	0.1747	0.4269
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.1702	19.9479	19.9058	19.6493	19.9075	99.6%	19.9552	19.9078
2	12:13:51	20.0142	19.8456	20.1976	20.0018	20.0736	100.1%	20.0651	20.1003
3	12:14:58	20.2307	20.0677	19.8048	20.1513	19.8589	101.1%	20.2801	20.1599
X		20.1383	19.9537	19.9694	19.9341	19.9467	100.2%	20.1001	20.0560
σ		0.1117	0.1111	0.2039	0.2578	0.1126	0.8%	0.1653	0.1318
%RSD		0.5547	0.5570	1.0213	1.2931	0.5644	0.8	0.8222	0.6571
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:12:43	19.9262	19.8718	19.9149	20.5154	99.5%	20.0112		
2	12:13:51	20.0973	19.9628	20.0640	20.7925	102.5%	20.0558		
3	12:14:58	20.0079	19.9898	20.0259	20.7916	102.6%	20.2557		
X		20.0105	19.9415	20.0016	20.6999	101.5%	20.1075		
σ		0.0856	0.0618	0.0775	0.1597	1.7%	0.1302		
%RSD		0.4277	0.3101	0.3874	0.7716	1.7	0.6477		

K1011605-001 11/9/2010 12:23:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	95.9%	-0.0153	3.5566	3.0367	59.7114	5.5789	2.9521	33.9667
2	12:24:19	89.8%	-0.0026	3.5142	3.3383	58.6057	8.1647	2.8164	34.1118
3	12:25:26	86.8%	0.0064	3.9946	3.6545	60.6659	3.0310	2.6008	35.1964
x		90.9%	-0.0039	3.6884	3.3431	59.6610	5.5915	2.7898	34.4250
σ		4.6%	0.0109	0.2659	0.3089	1.0310	2.5669	0.1771	0.6720
%RSD		5.1	283.2366	7.2102	9.2410	1.7281	45.9073	6.3494	1.9521
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.2993	0.3453	0.3598	2.2973	0.0153	0.2163	1.7246	0.1978
2	12:24:19	0.2984	0.3411	0.3056	2.2346	0.0212	0.2618	1.4277	0.2258
3	12:25:26	0.3006	0.3518	0.3600	2.3261	0.0205	0.2556	1.4657	0.2154
x		0.2994	0.3461	0.3418	2.2860	0.0190	0.2446	1.5393	0.2130
σ		0.0011	0.0054	0.0314	0.0468	0.0032	0.0247	0.1616	0.0141
%RSD		0.3731	1.5524	9.1835	2.0464	17.0637	10.0897	10.4956	6.6291
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.7244	0.7044	0.4180	0.7677	0.7193	92.8%	0.6222	0.0326
2	12:24:19	0.7275	0.7182	0.4746	0.8328	0.8211	90.5%	0.5475	0.0384
3	12:25:26	0.7715	0.7378	0.4708	0.9183	0.8051	89.1%	0.5672	-0.0826
x		0.7411	0.7201	0.4545	0.8396	0.7818	90.8%	0.5790	-0.0039
σ		0.0263	0.0168	0.0316	0.0755	0.0547	1.8%	0.0387	0.0682
%RSD		3.5499	2.3362	6.9617	8.9925	7.0000	2.0	6.6865	1769.4264
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	-0.3919	0.3594	93.3%	1.2652	1.2742	1.2398	93.4%	0.0006
2	12:24:19	-0.6925	0.1449	92.2%	1.2841	1.3452	1.3002	91.8%	0.0026
3	12:25:26	-0.1873	0.2817	90.2%	1.2858	1.3001	1.3607	90.2%	-0.0014
x		-0.4239	0.2620	91.9%	1.2783	1.3065	1.3002	91.8%	0.0006
σ		0.2541	0.1086	1.6%	0.0114	0.0360	0.0604	1.6%	0.0020
%RSD		59.9415	41.4390	1.7	0.8947	2.7527	4.6467	1.8	323.3393
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.0009	0.0075	0.0040	0.0029	93.9%	0.0033	0.0009	0.0135
2	12:24:19	0.0029	0.0021	0.0055	0.0051	93.3%	-0.0103	0.0105	-0.0091
3	12:25:26	0.0008	0.0067	0.0037	0.0044	93.7%	-0.0206	-0.0122	-0.0272
x		0.0015	0.0054	0.0044	0.0041	93.6%	-0.0092	-0.0003	-0.0076
σ		0.0012	0.0029	0.0009	0.0012	0.3%	0.0120	0.0114	0.0204
%RSD		77.4481	52.8972	21.5520	27.9117	0.3	130.8780	4254.3983	268.2574
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.0467	0.0427	9.5896	9.5447	9.6507	96.7%	-0.0034	-0.0059
2	12:24:19	0.0441	0.0416	9.5242	9.8204	9.6840	97.2%	-0.0027	-0.0039
3	12:25:26	0.0459	0.0427	9.6745	9.7166	9.6083	97.4%	-0.0036	-0.0017
x		0.0455	0.0423	9.5961	9.6939	9.6476	97.1%	-0.0032	-0.0038
σ		0.0013	0.0006	0.0754	0.1392	0.0379	0.3%	0.0005	0.0021
%RSD		2.9494	1.5171	0.7855	1.4362	0.3933	0.4	14.0010	54.6170
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:23:11	0.0288	0.0230	0.0226	-0.0152	97.5%	0.0981		
2	12:24:19	0.0295	0.0250	0.0234	-0.0126	99.8%	0.0957		
3	12:25:26	0.0246	0.0235	0.0240	-0.0156	99.8%	0.0981		
x		0.0276	0.0239	0.0234	-0.0145	99.0%	0.0973		
σ		0.0027	0.0010	0.0007	0.0016	1.3%	0.0014		
%RSD		9.6568	4.1912	2.9810	11.0151	1.4	1.4180		

K1011605-001S 11/9/2010 12:32:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	96.8%	21.3724	24.3139	24.7675	79.0436	25.7506	24.7217	55.5704
2	12:33:13	91.0%	20.9743	26.5607	24.4892	80.0829	29.1961	25.4116	55.4388
3	12:34:20	89.9%	21.0325	26.4122	25.7523	78.3148	36.5089	25.1214	55.6169
x		92.6%	21.1264	25.7622	25.0030	79.1471	30.4852	25.0849	55.5421
σ		3.7%	0.2150	1.2565	0.6637	0.8885	5.4938	0.3464	0.0924
%RSD		4.0	1.0179	4.8775	2.6544	1.1226	18.0213	1.3810	0.1663
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	19.9936	20.4708	20.8385	22.4533	20.0427	20.5671	21.7626	20.3645
2	12:33:13	20.0024	20.0911	19.9306	22.5857	20.0246	20.4952	20.7481	19.8451
3	12:34:20	19.7374	19.8092	20.3185	22.3098	19.8907	20.1904	21.8072	19.5786
x		19.9111	20.1237	20.3625	22.4496	19.9860	20.4176	21.4393	19.9294
σ		0.1506	0.3320	0.4555	0.1380	0.0830	0.2000	0.5990	0.3997
%RSD		0.7561	1.6498	2.2370	0.6148	0.4155	0.9795	2.7939	2.0054
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.8215	21.0920	21.1260	21.0882	21.1408	92.6%	21.0765	20.3030
2	12:33:13	20.6994	20.7347	21.1736	21.7307	21.0415	90.2%	21.1936	19.0519
3	12:34:20	20.7871	20.6612	20.6867	22.1116	20.9998	90.7%	20.9653	20.4310
x		20.7693	20.8293	20.9954	21.6435	21.0607	91.2%	21.0785	19.9286
σ		0.0630	0.2305	0.2684	0.5172	0.0725	1.3%	0.1141	0.7620
%RSD		0.3032	1.1066	1.2786	2.3898	0.3441	1.4	0.5414	3.8235
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	19.8250	20.0262	93.0%	21.6041	21.4821	21.2492	94.5%	20.4128
2	12:33:13	20.4609	19.6991	91.8%	21.3686	22.0647	21.8174	92.9%	20.3274
3	12:34:20	19.2711	19.9367	91.6%	21.6584	21.9086	21.9580	92.6%	20.4583
x		19.8523	19.8873	92.1%	21.5437	21.8184	21.6749	93.3%	20.3995
σ		0.5954	0.1690	0.8%	0.1541	0.3016	0.3753	1.1%	0.0664
%RSD		2.9991	0.8499	0.8	0.7153	1.3822	1.7313	1.1	0.3257
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.3324	20.3427	20.3292	20.4139	95.0%	20.7423	20.9531	21.1699
2	12:33:13	20.3437	20.1172	20.3369	20.3751	94.9%	20.8218	21.1276	20.9371
3	12:34:20	20.2680	20.4035	20.4517	20.5183	94.6%	20.8823	21.2377	21.1103
x		20.3147	20.2878	20.3726	20.4358	94.8%	20.8155	21.1061	21.0724
σ		0.0409	0.1508	0.0686	0.0741	0.2%	0.0702	0.1435	0.1209
%RSD		0.2011	0.7435	0.3366	0.3624	0.2	0.3373	0.6798	0.5739
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.5302	20.3987	29.8646	30.1116	29.9771	97.0%	20.0660	20.1713
2	12:33:13	20.3088	20.2862	29.8733	29.6291	29.8878	98.4%	20.0265	20.0692
3	12:34:20	20.6418	20.4239	29.9489	29.7881	30.0398	97.9%	20.1887	20.2686
x		20.4936	20.3696	29.8956	29.8429	29.9682	97.8%	20.0938	20.1697
σ		0.1695	0.0733	0.0464	0.2459	0.0764	0.7%	0.0846	0.0997
%RSD		0.8269	0.3598	0.1551	0.8238	0.2549	0.7	0.4208	0.4943
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:32:06	20.2073	20.1435	20.1813	21.1513	98.8%	20.3862		
2	12:33:13	20.0037	19.9279	19.9621	20.9817	101.1%	20.3372		
3	12:34:20	20.1220	20.2533	20.1792	21.2337	101.3%	20.4590		
x		20.1110	20.1082	20.1075	21.1222	100.4%	20.3941		
σ		0.1023	0.1655	0.1259	0.1285	1.4%	0.0613		
%RSD		0.5085	0.8231	0.6262	0.6083	1.4	0.3006		

K1011605-001SD 11/9/2010 12:42:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	95.0%	20.5916	23.4675	23.7837	82.8069	31.1677	23.8772	56.3397
2	12:43:41	88.8%	20.8251	26.2874	24.6336	83.9024	24.0889	23.0311	56.2738
3	12:44:48	87.6%	20.5191	24.8687	25.1484	80.2710	28.3664	24.1226	54.0948
X		90.4%	20.6453	24.8745	24.5219	82.3268	27.8743	23.6770	55.5694
σ		4.0%	0.1599	1.4099	0.6892	1.8627	3.5650	0.5726	1.2775
%RSD		4.4	0.7744	5.6682	2.8104	2.2625	12.7894	2.4184	2.2989
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.2531	20.3799	20.3607	22.3682	19.9322	20.8610	22.6318	20.6190
2	12:43:41	19.8551	19.7230	19.6551	22.4733	19.5838	20.7785	21.5734	20.2784
3	12:44:48	19.5626	19.6401	20.1838	22.0517	19.1505	20.2444	21.4579	20.0206
X		19.8902	19.9143	20.0665	22.2977	19.5555	20.6280	21.8877	20.3060
σ		0.3466	0.4053	0.3671	0.2195	0.3916	0.3347	0.6470	0.3002
%RSD		1.7425	2.0354	1.8293	0.9844	2.0024	1.6227	2.9560	1.4782
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	21.0371	21.3217	22.2549	22.5151	22.4711	90.4%	20.9251	20.2172
2	12:43:41	20.8305	20.9525	22.4320	21.4176	22.6224	88.2%	20.5182	20.8972
3	12:44:48	20.2689	20.1647	21.9137	22.1302	22.3675	88.9%	20.6189	19.6088
X		20.7122	20.8130	22.2002	22.0210	22.4870	89.1%	20.6874	20.2411
σ		0.3976	0.5910	0.2634	0.5569	0.1282	1.1%	0.2119	0.6445
%RSD		1.9195	2.8395	1.1866	2.5288	0.5701	1.3	1.0243	3.1843
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	18.7332	20.4004	91.7%	21.4594	21.6188	21.3915	93.2%	20.4745
2	12:43:41	19.6798	19.1758	91.5%	21.2562	21.5810	21.5646	92.0%	20.2783
3	12:44:48	18.7538	19.9887	89.9%	22.0840	22.4526	22.1119	90.1%	20.2965
X		19.0556	19.8550	91.1%	21.5999	21.8841	21.6894	91.7%	20.3498
σ		0.5407	0.6231	1.0%	0.4314	0.4926	0.3760	1.6%	0.1084
%RSD		2.8375	3.1385	1.1	1.9973	2.2511	1.7338	1.7	0.5327
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.2310	20.3301	20.1908	20.2962	94.3%	20.7820	20.9554	20.9913
2	12:43:41	20.0298	20.2235	20.1904	20.2184	93.7%	20.5211	20.6740	20.7234
3	12:44:48	20.0852	20.1615	20.2565	20.2762	93.9%	20.3630	20.5887	20.5480
X		20.1153	20.2384	20.2126	20.2636	94.0%	20.5554	20.7394	20.7542
σ		0.1039	0.0853	0.0381	0.0404	0.3%	0.2116	0.1919	0.2232
%RSD		0.5164	0.4215	0.1884	0.1994	0.3	1.0294	0.9254	1.0756
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.4619	20.3640	29.6701	29.8504	29.8542	96.7%	20.0160	20.1346
2	12:43:41	20.4272	20.3308	29.7982	29.7705	29.7941	98.5%	19.8751	19.8980
3	12:44:48	20.2825	20.3332	29.9420	29.8156	29.7092	98.3%	20.0072	20.0772
X		20.3905	20.3427	29.8034	29.8122	29.7858	97.8%	19.9661	20.0366
σ		0.0952	0.0185	0.1360	0.0400	0.0729	1.0%	0.0789	0.1234
%RSD		0.4667	0.0911	0.4564	0.1343	0.2446	1.0	0.3953	0.6159
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:42:34	20.0372	20.1610	20.1014	20.9398	98.8%	20.4068		
2	12:43:41	19.8669	20.0810	19.8900	20.5592	101.8%	20.0722		
3	12:44:48	19.9105	20.0688	19.9528	20.7352	101.8%	20.2541		
X		19.9382	20.1036	19.9814	20.7447	100.8%	20.2443		
σ		0.0885	0.0501	0.1086	0.1904	1.7%	0.1675		
%RSD		0.4437	0.2491	0.5433	0.9180	1.7	0.8274		

K1011605-001 DISS 11/9/2010 12:53:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	95.2%	-0.0152	3.6351	3.4356	19.2465	7.9801	0.8080	31.9795
2	12:54:09	90.9%	0.0011	3.5753	3.4250	18.6704	8.6052	0.9727	32.1305
3	12:55:16	88.0%	-0.0145	4.1940	3.7074	19.4944	5.1827	1.0895	33.6057
X		91.4%	-0.0095	3.8015	3.5227	19.1371	7.2560	0.9568	32.5719
σ		3.6%	0.0092	0.3413	0.1601	0.4228	1.8225	0.1414	0.8985
%RSD		4.0	96.8092	8.9774	4.5450	2.2091	25.1173	14.7814	2.7585
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.2258	0.1180	0.1083	0.7625	0.0004	0.1783	1.3526	0.1634
2	12:54:09	0.2355	0.1151	0.0778	0.7763	-0.0002	0.2114	1.9738	0.1455
3	12:55:16	0.2431	0.1472	0.0950	0.7804	0.0043	0.1814	1.0137	0.1769
X		0.2348	0.1267	0.0937	0.7731	0.0015	0.1904	1.4467	0.1619
σ		0.0087	0.0177	0.0153	0.0094	0.0024	0.0183	0.4870	0.0158
%RSD		3.6996	13.9997	16.3013	1.2152	162.0944	9.6048	33.6602	9.7281
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.7279	0.7629	2.0768	2.2829	2.2637	90.3%	0.4746	0.1245
2	12:54:09	0.7751	0.7831	1.9881	2.4160	2.2344	88.1%	0.5022	-0.0386
3	12:55:16	0.8082	0.7634	2.0089	2.5554	2.2001	87.8%	0.4271	0.0712
X		0.7704	0.7698	2.0246	2.4181	2.2327	88.7%	0.4680	0.0523
σ		0.0403	0.0115	0.0464	0.1363	0.0318	1.4%	0.0380	0.0831
%RSD		5.2359	1.4973	2.2908	5.6362	1.4245	1.6	8.1171	158.8577
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	-0.2688	0.2660	90.1%	1.3143	1.3155	1.3586	90.6%	0.0014
2	12:54:09	-0.2324	0.1332	89.8%	1.3258	1.3882	1.3347	91.1%	-0.0005
3	12:55:16	-0.5685	-0.0337	87.4%	1.3684	1.3645	1.3193	90.3%	-0.0001
X		-0.3566	0.1218	89.1%	1.3362	1.3561	1.3375	90.6%	0.0003
σ		0.1844	0.1501	1.5%	0.0285	0.0370	0.0198	0.4%	0.0010
%RSD		51.7242	123.2339	1.6	2.1322	2.7321	1.4831	0.4	373.0431
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.0006	0.0086	0.0044	0.0057	92.1%	0.0121	0.0411	0.0369
2	12:54:09	-0.0005	0.0086	0.0057	0.0068	91.8%	-0.0241	0.0104	0.0239
3	12:55:16	0.0015	0.0031	0.0028	0.0028	90.8%	-0.0206	0.0103	0.0081
X		0.0005	0.0067	0.0043	0.0051	91.6%	-0.0109	0.0206	0.0230
σ		0.0010	0.0031	0.0015	0.0020	0.7%	0.0200	0.0178	0.0144
%RSD		191.0444	46.4583	34.7243	40.1406	0.8	183.8014	86.3910	62.8034
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.0499	0.0432	8.9343	9.1634	8.9645	95.2%	-0.0061	-0.0046
2	12:54:09	0.0521	0.0436	9.1294	9.2498	9.0312	96.4%	-0.0042	-0.0063
3	12:55:16	0.0468	0.0451	9.3377	9.1827	9.1369	95.8%	-0.0050	-0.0072
X		0.0496	0.0439	9.1338	9.1986	9.0442	95.8%	-0.0051	-0.0060
σ		0.0027	0.0010	0.2017	0.0454	0.0869	0.6%	0.0010	0.0013
%RSD		5.3533	2.2643	2.2087	0.4931	0.9612	0.6	18.7764	22.0998
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:53:02	0.0125	0.0092	0.0102	-0.0147	96.5%	0.0860		
2	12:54:09	0.0135	0.0112	0.0098	-0.0153	99.3%	0.0888		
3	12:55:16	0.0120	0.0119	0.0131	-0.0155	99.2%	0.0880		
X		0.0126	0.0107	0.0110	-0.0152	98.3%	0.0876		
σ		0.0008	0.0014	0.0018	0.0004	1.6%	0.0015		
%RSD		6.0200	12.8929	16.0643	2.7083	1.6	1.6683		

K1011605-001 DISSS 11/9/2010 1:03:30 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	94.6%	20.7136	24.7209	25.1178	38.3158	30.3972	20.6478	52.5812
2	13:04:38	89.4%	20.7633	25.4588	25.2010	38.2387	23.1555	21.1600	53.5566
3	13:05:45	87.2%	20.9613	25.9174	26.3430	39.6327	27.0223	22.1210	54.4613
x		90.4%	20.8127	25.3657	25.5539	38.7291	26.8583	21.3096	53.5330
σ		3.8%	0.1311	0.6037	0.6846	0.7835	3.6236	0.7479	0.9402
%RSD		4.2	0.6297	2.3798	2.6791	2.0230	13.4916	3.5097	1.7564
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.0551	19.4207	20.1058	20.1943	19.3856	19.8968	21.4825	19.2180
2	13:04:38	19.4890	19.4946	19.8775	20.6489	19.6208	20.2112	24.5161	19.2525
3	13:05:45	20.1282	19.8816	20.0079	21.2763	19.9360	20.5789	21.8634	19.8319
x		19.5574	19.5990	19.9970	20.7065	19.6475	20.2289	22.6207	19.4341
σ		0.5398	0.2476	0.1145	0.5433	0.2762	0.3414	1.6525	0.3449
%RSD		2.7601	1.2631	0.5727	2.6238	1.4056	1.6877	7.3052	1.7748
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	20.5065	20.6644	22.0720	23.2292	21.9257	91.0%	20.2458	20.0772
2	13:04:38	20.8405	20.5317	22.3368	23.1746	22.1892	87.7%	21.0632	19.1182
3	13:05:45	21.1768	21.3975	23.4698	23.3510	23.4662	84.8%	21.2440	21.4230
x		20.8412	20.8645	22.6262	23.2516	22.5270	87.8%	20.8510	20.2061
σ		0.3351	0.4663	0.7425	0.0903	0.8239	3.1%	0.5319	1.1578
%RSD		1.6081	2.2350	3.2815	0.3885	3.6575	3.5	2.5507	5.7300
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.0185	19.1223	90.8%	21.0114	21.2362	21.3181	91.7%	20.1647
2	13:04:38	20.5530	19.1549	89.5%	21.5470	21.6992	21.7407	90.9%	20.4015
3	13:05:45	21.2740	19.8697	87.6%	21.8012	22.3382	22.1172	89.5%	20.3642
x		20.2819	19.3823	89.3%	21.4532	21.7579	21.7253	90.7%	20.3101
σ		1.1520	0.4224	1.6%	0.4032	0.5534	0.3998	1.1%	0.1273
%RSD		5.6798	2.1793	1.8	1.8793	2.5433	1.8401	1.3	0.6270
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.9132	19.9236	19.9722	20.0909	93.8%	20.5253	20.5098	20.6242
2	13:04:38	19.9942	20.2947	20.2062	20.0752	93.7%	20.6554	20.8203	20.7798
3	13:05:45	20.3416	20.6195	20.4533	20.5240	92.7%	20.9605	21.2692	21.0398
x		20.0830	20.2793	20.2106	20.2301	93.4%	20.7138	20.8664	20.8146
σ		0.2276	0.3482	0.2405	0.2547	0.6%	0.2234	0.3818	0.2100
%RSD		1.1332	1.7173	1.1902	1.2590	0.6	1.0783	1.8298	1.0087
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	20.1755	20.0173	29.0879	28.8783	28.7341	97.3%	19.7544	19.8111
2	13:04:38	20.3804	20.3088	28.9494	28.9727	29.1410	97.4%	20.0853	20.1584
3	13:05:45	20.7564	20.6330	29.6872	29.5717	29.4530	98.0%	20.2037	20.2556
x		20.4374	20.3197	29.2415	29.1409	29.1094	97.6%	20.0145	20.0750
σ		0.2946	0.3080	0.3921	0.3760	0.3605	0.4%	0.2329	0.2337
%RSD		1.4415	1.5158	1.3410	1.2904	1.2383	0.4	1.1637	1.1642
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:03:30	19.5857	19.5575	19.5887	20.4300		98.3%		19.9423
2	13:04:38	20.1274	20.1393	20.0484	20.7445		99.8%		20.3934
3	13:05:45	20.2871	20.3087	20.2778	21.1278		100.2%		20.6002
x		20.0000	20.0018	19.9716	20.7674		99.4%		20.3119
σ		0.3676	0.3940	0.3509	0.3495		1.0%		0.3364
%RSD		1.8381	1.9699	1.7571	1.6828		1.0		1.6562

K1011605-001 DISSD 11/9/2010 1:14:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	92.8%	20.8602	25.2159	24.2546	39.4270	23.6989	21.6213	52.5848
2	13:15:07	88.1%	20.5085	25.2102	23.9169	37.8522	22.3158	20.6323	52.0075
3	13:16:14	86.3%	21.1611	26.6103	25.2836	38.0865	25.5535	20.5348	52.9063
x		89.1%	20.8433	25.6788	24.4850	38.4552	23.8561	20.9295	52.4996
σ		3.4%	0.3266	0.8067	0.7119	0.8497	1.6246	0.6012	0.4555
%RSD		3.8	1.5670	3.1416	2.9075	2.2095	6.8098	2.8723	0.8675
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	19.5899	19.4081	19.9621	20.3743	19.2917	19.6208	19.4321	19.5561
2	13:15:07	18.8828	19.0806	20.1527	20.0837	18.9447	19.2342	19.4297	18.8947
3	13:16:14	19.6489	19.5438	19.6360	20.3859	19.5059	19.8225	19.3789	19.2505
x		19.3739	19.3442	19.9169	20.2813	19.2474	19.5591	19.4136	19.2338
σ		0.4263	0.2381	0.2613	0.1712	0.2832	0.2990	0.0301	0.3310
%RSD		2.2004	1.2308	1.3120	0.8440	1.4713	1.5285	0.1548	1.7210
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.2893	20.3860	22.4151	22.0424	22.5961	89.6%	20.7943	19.8251
2	13:15:07	19.9213	20.1485	21.5966	22.0621	22.3428	89.1%	19.8749	20.6298
3	13:16:14	20.4724	20.6966	22.5085	22.7677	22.4769	86.9%	21.1401	18.9302
x		20.2277	20.4103	22.1734	22.2907	22.4719	88.5%	20.6031	19.7950
σ		0.2807	0.2749	0.5017	0.4132	0.1267	1.4%	0.6539	0.8502
%RSD		1.3876	1.3468	2.2626	1.8535	0.5639	1.6	3.1737	4.2950
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.0992	19.1832	91.7%	21.4665	21.4298	21.2616	90.8%	20.0222
2	13:15:07	18.9416	19.1861	89.2%	21.5079	21.8132	21.6407	90.5%	20.1062
3	13:16:14	20.0855	20.3992	89.0%	22.2825	22.3698	22.1673	88.9%	20.4435
x		19.7088	19.5895	89.9%	21.7523	21.8709	21.6899	90.1%	20.1906
σ		0.6645	0.7012	1.5%	0.4596	0.4726	0.4548	1.0%	0.2230
%RSD		3.3714	3.5795	1.7	2.1129	2.1609	2.0970	1.1	1.1043
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.1581	20.0702	20.0064	19.9497	93.8%	20.3761	20.5720	20.6472
2	13:15:07	20.0512	20.2234	20.0690	20.1104	93.4%	20.5207	20.7462	20.6692
3	13:16:14	20.2988	20.6255	20.2599	20.2977	93.3%	20.5474	20.8493	20.6872
x		20.1694	20.3064	20.1118	20.1193	93.5%	20.4814	20.7225	20.6679
σ		0.1242	0.2868	0.1320	0.1742	0.3%	0.0922	0.1402	0.0201
%RSD		0.6157	1.4124	0.6565	0.8658	0.3	0.4501	0.6763	0.0971
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.1682	20.0809	28.7641	28.7400	28.9331	96.7%	19.9562	19.8811
2	13:15:07	20.2903	20.2570	28.7082	29.0328	28.8955	97.9%	19.9486	19.7933
3	13:16:14	20.5088	20.1765	28.9893	28.9795	29.0606	97.8%	20.1546	20.0809
x		20.3225	20.1715	28.8205	28.9175	28.9631	97.5%	20.0198	19.9184
σ		0.1725	0.0882	0.1488	0.1560	0.0865	0.7%	0.1168	0.1474
%RSD		0.8490	0.4370	0.5164	0.5393	0.2986	0.7	0.5834	0.7399
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:14:00	19.8691	19.7652	19.7778	20.5212	99.3%	20.0882		
2	13:15:07	19.8340	19.8567	19.8525	20.4733	101.9%	19.9910		
3	13:16:14	20.0908	20.0657	20.0399	20.7058	100.9%	20.3288		
x		19.9313	19.8958	19.8900	20.5668	100.7%	20.1360		
σ		0.1393	0.1540	0.1350	0.1228	1.3%	0.1739		
%RSD		0.6987	0.7742	0.6789	0.5970	1.3	0.8636		



K1011103-001 11/9/2010 1:24:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	96.7%	-0.0116	2.5843	2.4086	23.1433	11.7356	4.6042	70.9985
2	13:25:37	91.3%	-0.0009	2.2640	2.6175	22.8485	13.7048	4.8684	71.3357
3	13:26:44	89.6%	-0.0065	2.5884	2.4757	22.7709	10.7180	4.9110	72.9226
x		92.5%	-0.0063	2.4789	2.5006	22.9209	12.0528	4.7945	71.7522
σ		3.7%	0.0053	0.1861	0.1066	0.1965	1.5184	0.1662	1.0275
%RSD		4.0	84.1128	7.5075	4.2638	0.8572	12.5983	3.4660	1.4320
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	1.1631	0.6887	0.5415	0.4989	0.3541	2.8318	5.7124	8.0862
2	13:25:37	1.1285	0.7045	0.6623	0.4861	0.3663	2.8611	5.4825	8.7800
3	13:26:44	1.2335	0.7415	0.6761	0.5010	0.3734	2.8194	5.7429	9.8009
x		1.1750	0.7116	0.6266	0.4953	0.3646	2.8374	5.6460	8.8890
σ		0.0535	0.0271	0.0741	0.0080	0.0098	0.0214	0.1424	0.8626
%RSD		4.5545	3.8067	11.8215	1.6229	2.6907	0.7548	2.5218	9.7036
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	9.2940	5.3564	40.6222	39.5247	40.4454	86.1%	0.2745	0.0975
2	13:25:37	9.5130	5.6103	41.0413	40.3777	39.5795	83.9%	0.2240	0.0163
3	13:26:44	9.5672	5.5360	42.1642	39.7424	41.2675	80.7%	0.2761	0.1641
x		9.4581	5.5009	41.2759	39.8816	40.4308	83.6%	0.2582	0.0927
σ		0.1446	0.1305	0.7973	0.4432	0.8441	2.7%	0.0296	0.0740
%RSD		1.5290	2.3730	1.9316	1.1114	2.0878	3.3	11.4665	79.8924
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	-0.5354	0.1826	87.0%	24.6701	24.9702	25.1299	82.2%	-0.0001
2	13:25:37	0.0519	-0.0831	85.8%	24.7497	25.5641	25.5017	81.4%	-0.0001
3	13:26:44	0.2237	0.2395	83.6%	25.7094	26.0948	26.0409	79.9%	0.0031
x		-0.0866	0.1130	85.5%	25.0431	25.5430	25.5575	81.1%	0.0009
σ		0.3981	0.1722	1.7%	0.5784	0.5626	0.4581	1.2%	0.0019
%RSD		459.8071	152.4015	2.0	2.3097	2.2025	1.7924	1.5	197.7403
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	0.0012	0.0436	0.0235	0.0351	83.6%	-0.0425	-0.0154	-0.0431
2	13:25:37	0.0017	0.0217	0.0212	0.0279	83.3%	-0.0551	-0.0383	-0.0450
3	13:26:44	0.0001	0.0333	0.0303	0.0279	82.3%	-0.0517	-0.0462	-0.0464
x		0.0010	0.0329	0.0250	0.0303	83.1%	-0.0498	-0.0333	-0.0449
σ		0.0008	0.0110	0.0047	0.0042	0.7%	0.0065	0.0160	0.0017
%RSD		84.2923	33.4649	18.8189	13.7305	0.8	13.0567	48.1450	3.7293
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	0.1591	0.1761	0.7049	0.6843	0.6914	88.6%	0.0037	0.0047
2	13:25:37	0.1586	0.1640	0.7196	0.6889	0.6974	89.0%	0.0062	0.0032
3	13:26:44	0.1583	0.1669	0.7675	0.7068	0.7200	89.1%	0.0028	0.0034
x		0.1586	0.1690	0.7307	0.6933	0.7029	88.9%	0.0042	0.0037
σ		0.0004	0.0064	0.0327	0.0119	0.0151	0.3%	0.0018	0.0009
%RSD		0.2577	3.7598	4.4784	1.7125	2.1417	0.3	42.0574	22.7630
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:24:29	0.3655	0.3353	0.3506	0.0390	90.3%	-0.0096		
2	13:25:37	0.3534	0.3367	0.3478	0.0423	90.6%	-0.0086		
3	13:26:44	0.3746	0.3666	0.3590	0.0410	90.3%	-0.0096		
x		0.3645	0.3462	0.3525	0.0408	90.4%	-0.0093		
σ		0.0106	0.0177	0.0058	0.0017	0.2%	0.0006		
%RSD		2.9149	5.1015	1.6504	4.0868	0.2	5.9527		

CCV2 11/9/2010 1:34:58 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	97.1%	26.4623	25.3380	25.5775	25.4755	25.1197	25.2222	24.8362
2	13:36:05	92.6%	26.1004	25.5308	25.6051	24.6812	29.9117	24.3604	25.0487
3	13:37:12	89.8%	26.3839	28.1120	26.2358	25.3026	24.3086	26.3041	25.6230
x		93.2%	26.3155	26.3270	25.8061	25.1531	26.4467	25.2956	25.1693
$\sigma$		3.7%	0.1904	1.5489	0.3724	0.4177	3.0281	0.9739	0.4070
%RSD		3.9	0.7234	5.8834	1.4429	1.6607	11.4498	3.8501	1.6171
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	24.6842	24.7451	25.2566	24.8895	24.7900	25.3785	25.7676	25.4014
2	13:36:05	24.5859	24.7155	25.2211	24.9333	24.8412	24.9599	24.7083	25.3338
3	13:37:12	24.9713	25.1490	25.4055	25.5091	25.0903	25.4584	26.0886	25.9161
x		24.7471	24.8699	25.2944	25.1106	24.9072	25.2656	25.5215	25.5504
$\sigma$		0.2003	0.2422	0.0978	0.3458	0.1606	0.2678	0.7223	0.3185
%RSD		0.8093	0.9738	0.3868	1.3771	0.6450	1.0598	2.8302	1.2465
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.0513	25.5042	25.5215	26.3381	25.8903	91.9%	25.6067	24.4540
2	13:36:05	25.4135	25.2880	25.9824	25.6404	25.8160	89.2%	26.0272	25.3345
3	13:37:12	25.2603	25.4818	26.0348	25.6976	26.4942	88.0%	26.1119	25.8535
x		25.2417	25.4247	25.8462	25.8920	26.0668	89.7%	25.9153	25.2140
$\sigma$		0.1818	0.1189	0.2824	0.3874	0.3720	2.0%	0.2705	0.7075
%RSD		0.7202	0.4677	1.0927	1.4961	1.4270	2.2	1.0440	2.8059
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.0730	24.3070	92.5%	24.8862	25.4216	25.3989	93.1%	25.4997
2	13:36:05	25.4045	26.1139	91.0%	25.5902	25.8731	25.7504	91.5%	25.5423
3	13:37:12	25.8326	25.0426	89.2%	25.8712	26.0462	26.2851	91.7%	25.6563
x		25.4367	25.1545	90.9%	25.4492	25.7803	25.8114	92.1%	25.5661
$\sigma$		0.3808	0.9086	1.6%	0.5074	0.3225	0.4463	0.9%	0.0810
%RSD		1.4972	3.6121	1.8	1.9940	1.2508	1.7290	0.9	0.3166
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.3557	25.6103	25.4259	25.7374	93.9%	25.4363	25.4702	25.4294
2	13:36:05	25.4108	25.5660	25.5565	25.3172	94.4%	25.1800	25.4715	25.2346
3	13:37:12	25.3428	25.6322	25.4813	25.3747	94.8%	25.1076	25.3500	25.0635
x		25.3698	25.6028	25.4879	25.4764	94.4%	25.2413	25.4306	25.2425
$\sigma$		0.0361	0.0337	0.0655	0.2278	0.5%	0.1727	0.0698	0.1831
%RSD		0.1424	0.1317	0.2570	0.8941	0.5	0.6842	0.2744	0.7252
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.7185	25.4007	25.4418	25.2053	25.3147	95.9%	25.2766	25.3607
2	13:36:05	25.4437	25.3977	25.2567	25.2125	25.0257	98.6%	25.1771	25.1594
3	13:37:12	25.6020	25.3253	24.9523	25.0833	24.9919	97.5%	25.2541	25.3698
x		25.5881	25.3746	25.2169	25.1670	25.1108	97.3%	25.2359	25.2967
$\sigma$		0.1379	0.0427	0.2471	0.0726	0.1774	1.4%	0.0522	0.1189
%RSD		0.5391	0.1682	0.9800	0.2885	0.7064	1.4	0.2067	0.4701
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:34:58	25.3700	25.3071	25.2999	25.3062	97.8%	25.2555		
2	13:36:05	25.0777	25.1698	25.0470	25.0049	101.3%	25.2115		
3	13:37:12	25.4288	25.4003	25.3977	25.3352	101.2%	25.3726		
x		25.2922	25.2924	25.2482	25.2154	100.1%	25.2799		
$\sigma$		0.1880	0.1159	0.1810	0.1829	2.0%	0.0833		
%RSD		0.7435	0.4583	0.7170	0.7254	2.0	0.3294		

CCB2 11/9/2010 1:55:53 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	95.4%	-0.0001	0.0465	-0.1400	-0.0225	4.0753	-0.0551	0.0071
2	13:57:00	90.5%	-0.0108	-0.1300	-0.1662	-0.0227	1.2890	-0.0023	-0.0018
3	13:58:08	88.7%	-0.0186	-0.0274	-0.1766	-0.0305	0.7974	0.0507	-0.0086
x		91.6%	-0.0098	-0.0370	-0.1609	-0.0252	2.0539	-0.0022	-0.0011
σ		3.5%	0.0093	0.0886	0.0188	0.0046	1.7678	0.0529	0.0079
%RSD		3.8	94.6911	239.7495	11.7063	18.0995	86.0692	2369.9592	729.2294
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0054	0.0073	-0.0049	0.0009	-0.0096	-0.0026	-0.1441	0.3733
2	13:57:00	0.0027	0.0101	0.0051	-0.0018	-0.0102	-0.0137	0.3346	0.4442
3	13:58:08	-0.0112	-0.0303	0.0120	-0.0007	-0.0069	-0.0049	0.2546	0.4339
x		-0.0010	-0.0043	0.0041	-0.0005	-0.0089	-0.0071	0.1484	0.4171
σ		0.0089	0.0225	0.0085	0.0014	0.0017	0.0059	0.2564	0.0383
%RSD		874.8249	525.1179	208.1381	258.6249	19.3490	82.8645	172.8158	9.1880
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0040	-0.0034	-0.0045	-0.0201	0.0162	90.6%	0.0537	-0.1468
2	13:57:00	0.0043	0.0091	-0.0081	0.0066	-0.0055	88.9%	0.1297	-0.1875
3	13:58:08	0.0060	0.0073	-0.0106	-0.0018	0.0084	87.6%	0.0275	-0.0586
x		0.0047	0.0043	-0.0078	-0.0051	0.0064	89.0%	0.0703	-0.1310
σ		0.0011	0.0068	0.0031	0.0137	0.0110	1.5%	0.0531	0.0659
%RSD		22.9353	156.4650	39.4903	266.5496	173.0806	1.7	75.6022	50.2884
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	-0.1063	0.0721	90.3%	-0.0042	0.0084	-0.0039	91.6%	0.0003
2	13:57:00	-0.3174	0.2984	89.7%	0.0045	0.0051	-0.0066	91.4%	-0.0012
3	13:58:08	-0.1716	0.0126	89.3%	-0.0028	0.0262	-0.0024	90.2%	-0.0016
x		-0.1984	0.1277	89.8%	-0.0009	0.0133	-0.0043	91.1%	-0.0008
σ		0.1081	0.1508	0.5%	0.0047	0.0114	0.0021	0.7%	0.0010
%RSD		54.4757	118.0907	0.6	545.1492	85.8316	49.4204	0.8	122.9522
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0006	-0.0006	-0.0005	0.0009	91.2%	-0.0043	-0.0026	0.0153
2	13:57:00	0.0015	-0.0006	-0.0005	0.0027	91.6%	-0.0413	0.0234	0.0023
3	13:58:08	0.0019	-0.0006	-0.0032	0.0013	91.2%	-0.0540	-0.0030	-0.0244
x		0.0013	-0.0006	-0.0014	0.0017	91.3%	-0.0332	0.0059	-0.0023
σ		0.0007	0.0000	0.0015	0.0010	0.3%	0.0259	0.0151	0.0203
%RSD		51.6263	0.0000	108.3360	58.3055	0.3	77.8848	255.2056	894.2867
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0015	-0.0006	-0.0084	-0.0031	-0.0065	94.8%	-0.0074	-0.0088
2	13:57:00	0.0009	-0.0006	-0.0025	-0.0072	0.0005	95.2%	-0.0078	-0.0071
3	13:58:08	0.0010	0.0001	-0.0000	-0.0085	-0.0052	95.2%	-0.0087	-0.0085
x		0.0011	-0.0004	-0.0037	-0.0063	-0.0037	95.1%	-0.0079	-0.0081
σ		0.0003	0.0004	0.0043	0.0028	0.0037	0.3%	0.0007	0.0009
%RSD		27.5666	108.2057	117.4705	45.0014	100.0882	0.3	8.4793	10.7115
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:55:53	-0.0059	-0.0043	-0.0052	-0.0168	95.3%	-0.0067		
2	13:57:00	-0.0041	-0.0077	-0.0065	-0.0168	97.2%	-0.0085		
3	13:58:08	-0.0063	-0.0055	-0.0056	-0.0164	97.8%	-0.0066		
x		-0.0054	-0.0058	-0.0058	-0.0167	96.7%	-0.0073		
σ		0.0012	0.0017	0.0006	0.0002	1.3%	0.0011		
%RSD		21.6098	29.7859	10.9764	1.3853	1.3	14.4470		

K1011487-001 11/9/2010 2:01:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	95.1%	0.0000	35.2901	36.7061	176.2136	124.1574	55.9414	563.7146
2	14:02:14	90.3%	-0.0147	36.9206	35.3978	171.2014	119.4638	55.8499	554.0719
3	14:03:22	88.0%	-0.0083	38.6832	37.6942	173.9544	127.8580	56.4595	566.2017
x		91.1%	-0.0077	36.9646	36.5994	173.7898	123.8264	56.0836	561.3294
σ		3.7%	0.0074	1.6970	1.1519	2.5102	4.2069	0.3287	6.4070
%RSD		4.0	96.4715	4.5908	3.1473	1.4444	3.3974	0.5861	1.1414
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	9.9050	1.4073	1.5286	8.3817	0.2230	2.7177	24.0503	2.9544
2	14:02:14	9.6483	1.3587	1.5043	8.2046	0.2276	2.6292	21.1169	2.7925
3	14:03:22	9.8018	1.3753	1.4713	8.4309	0.2270	2.7397	18.4757	2.8707
x		9.7850	1.3804	1.5014	8.3391	0.2259	2.6955	21.2143	2.8726
σ		0.1291	0.0247	0.0288	0.1190	0.0025	0.0584	2.7886	0.0809
%RSD		1.3198	1.7890	1.9171	1.4275	1.0941	2.1683	13.1449	2.8180
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	21.3275	21.5714	58.7744	65.5355	63.8706	88.1%	2.5175	1.0230
2	14:02:14	21.2132	21.1686	58.3357	63.9934	63.1831	87.2%	2.2511	1.3987
3	14:03:22	21.8147	21.6091	59.3298	65.5039	63.2924	84.1%	2.4593	1.0307
x		21.4518	21.4497	58.8133	65.0110	63.4487	86.5%	2.4093	1.1508
σ		0.3194	0.2441	0.4982	0.8814	0.3695	2.1%	0.1400	0.2147
%RSD		1.4890	1.1382	0.8470	1.3557	0.5823	2.4	5.8120	18.6576
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	0.4907	1.3685	89.8%	4.8395	4.9121	5.0218	86.8%	0.0027
2	14:02:14	0.3078	1.0763	89.1%	4.8291	4.9301	4.9100	87.1%	0.0032
3	14:03:22	0.4578	1.2131	87.4%	4.9026	5.1546	5.0039	86.2%	0.0043
x		0.4188	1.2193	88.7%	4.8570	4.9989	4.9785	86.7%	0.0034
σ		0.0975	0.1462	1.2%	0.0398	0.1351	0.0600	0.5%	0.0008
%RSD		23.2875	11.9888	1.4	0.8190	2.7025	1.2062	0.5	24.2863
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	0.0053	0.0411	0.0404	0.0456	89.1%	0.0806	0.1098	0.1005
2	14:02:14	0.0048	0.0362	0.0425	0.0438	89.4%	0.0539	0.0969	0.0859
3	14:03:22	0.0026	0.0364	0.0331	0.0372	89.0%	0.0356	0.0628	0.0661
x		0.0042	0.0379	0.0387	0.0422	89.2%	0.0567	0.0898	0.0841
σ		0.0014	0.0027	0.0050	0.0044	0.3%	0.0227	0.0243	0.0173
%RSD		34.2123	7.2531	12.7986	10.4525	0.3	39.9720	27.0129	20.5351
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	1.0247	1.0271	207.0954	207.4090	215.3982	94.1%	0.0177	0.0214
2	14:02:14	1.0126	0.9506	204.2172	205.5791	212.8739	95.6%	0.0209	0.0227
3	14:03:22	0.9991	1.0133	204.9552	205.5648	214.6876	95.0%	0.0236	0.0211
x		1.0121	0.9970	205.4226	206.1843	214.3199	94.9%	0.0207	0.0218
σ		0.0128	0.0408	1.4950	1.0607	1.3017	0.7%	0.0030	0.0009
%RSD		1.2642	4.0931	0.7278	0.5144	0.6074	0.8	14.3765	3.9625
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:01:07	0.7044	0.6606	0.6845	-0.0077	96.5%	0.2946		
2	14:02:14	0.7155	0.6502	0.6779	-0.0034	98.1%	0.2812		
3	14:03:22	0.6979	0.6668	0.6800	-0.0081	98.8%	0.2904		
x		0.7059	0.6592	0.6808	-0.0064	97.8%	0.2887		
σ		0.0089	0.0084	0.0033	0.0026	1.2%	0.0069		
%RSD		1.2590	1.2751	0.4896	40.2913	1.2	2.3848		

K1012425-001 11/9/2010 2:11:37 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	91.1%	-0.0168	171.9834	166.7794	21.3592	16.3831	2.8559	107.2950
2	14:12:45	85.4%	-0.0099	173.8149	173.1318	21.3163	16.7967	2.9902	110.9457
3	14:13:52	84.3%	-0.0033	177.1271	175.4147	21.4255	26.8854	2.8157	110.4037
X		86.9%	-0.0100	174.3085	171.7753	21.3670	20.0217	2.8873	109.5481
σ		3.7%	0.0068	2.6071	4.4746	0.0550	5.9477	0.0914	1.9700
%RSD		4.2	67.5370	1.4957	2.6049	0.2574	29.7062	3.1647	1.7983
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.8749	0.3709	0.5172	55.0192	0.1638	1.4119	5.9368	1.4560
2	14:12:45	0.8553	0.3555	0.5399	55.9879	0.1769	1.3229	6.0279	1.5386
3	14:13:52	0.9351	0.3540	0.4581	55.2813	0.1574	1.2829	5.5170	1.6254
X		0.8884	0.3601	0.5051	55.4295	0.1660	1.3392	5.8272	1.5400
σ		0.0416	0.0093	0.0422	0.5011	0.0099	0.0661	0.2725	0.0847
%RSD		4.6837	2.5893	8.3622	0.9040	5.9672	4.9331	4.6757	5.5000
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	13.9050	13.7035	40.7372	39.4038	41.1130	85.0%	1.1424	0.1242
2	14:12:45	13.8990	13.4855	41.3378	39.8759	41.2381	81.6%	1.0054	0.2493
3	14:13:52	13.5516	13.4012	40.8092	39.4705	40.4591	81.3%	1.1487	0.0713
X		13.7852	13.5300	40.9614	39.5834	40.9367	82.7%	1.0988	0.1482
σ		0.2024	0.1560	0.3279	0.2555	0.4183	2.0%	0.0810	0.0914
%RSD		1.4680	1.1531	0.8006	0.6456	1.0219	2.5	7.3672	61.6770
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.1231	0.4515	85.9%	0.8173	0.7678	0.7854	84.6%	0.0377
2	14:12:45	-0.5413	0.2202	85.1%	0.7834	0.8384	0.8286	85.2%	0.0337
3	14:13:52	-1.0161	0.3707	82.7%	0.8320	0.8969	0.8200	82.7%	0.0445
X		-0.4781	0.3475	84.6%	0.8109	0.8344	0.8113	84.2%	0.0386
σ		0.5722	0.1174	1.7%	0.0249	0.0646	0.0229	1.3%	0.0055
%RSD		119.6930	33.7926	2.0	3.0693	7.7468	2.8205	1.6	14.1163
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.0361	0.0287	0.0349	0.0346	86.2%	0.0925	0.1700	0.1505
2	14:12:45	0.0308	0.0189	0.0286	0.0311	86.1%	0.0748	0.1520	0.1410
3	14:13:52	0.0347	0.0407	0.0270	0.0304	86.1%	0.0735	0.1398	0.1235
X		0.0339	0.0294	0.0302	0.0320	86.1%	0.0803	0.1539	0.1383
σ		0.0027	0.0109	0.0042	0.0023	0.1%	0.0106	0.0152	0.0137
%RSD		8.0631	37.1729	13.7982	7.0920	0.1	13.2350	9.8462	9.8904
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.3145	0.3297	2.0946	2.1692	2.1987	92.5%	-0.0053	-0.0061
2	14:12:45	0.3236	0.2931	2.1503	2.1696	2.1272	92.7%	-0.0047	-0.0063
3	14:13:52	0.3133	0.3255	2.1212	2.1543	2.1369	93.3%	-0.0040	-0.0070
X		0.3171	0.3161	2.1220	2.1644	2.1543	92.8%	-0.0047	-0.0065
σ		0.0056	0.0200	0.0279	0.0087	0.0388	0.4%	0.0006	0.0005
%RSD		1.7727	6.3288	1.3134	0.4020	1.8008	0.4	13.7017	7.5445
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:11:37	0.1422	0.1149	0.1294	0.1116		93.5%		-0.0050
2	14:12:45	0.1272	0.1278	0.1265	0.1169		95.6%		-0.0043
3	14:13:52	0.1401	0.1315	0.1260	0.1139		95.8%		-0.0053
X		0.1365	0.1247	0.1273	0.1141		95.0%		-0.0049
σ		0.0081	0.0087	0.0019	0.0027		1.3%		0.0005
%RSD		5.9468	6.9872	1.4657	2.3496		1.3		10.8335

K1012425-002 11/9/2010 2:17:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	89.6%	-0.0106	170.3627	168.3766	7.6469	27.5183	2.4906	107.5620
2	14:19:04	83.4%	-0.0182	175.9407	175.0309	7.9806	21.4093	2.7534	110.5806
3	14:20:11	82.8%	-0.0138	175.7309	176.7610	7.7320	15.3915	2.7521	112.4959
X		85.3%	-0.0142	174.0114	173.3895	7.7865	21.4397	2.6654	110.2129
σ		3.7%	0.0038	3.1616	4.4266	0.1734	6.0634	0.1513	2.4874
%RSD		4.4	27.0403	1.8169	2.5530	2.2271	28.2814	5.6783	2.2569
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	0.8773	0.4243	0.6221	51.8863	0.1590	1.2977	5.2951	1.3867
2	14:19:04	0.8515	0.3738	0.7070	52.0469	0.1346	1.3594	5.4313	1.4978
3	14:20:11	0.8793	0.3553	0.6174	52.8354	0.1523	1.3846	5.7970	1.4626
X		0.8694	0.3845	0.6488	52.2562	0.1486	1.3472	5.5078	1.4490
σ		0.0155	0.0357	0.0504	0.5080	0.0126	0.0447	0.2595	0.0568
%RSD		1.7878	9.2900	7.7701	0.9722	8.4645	3.3193	4.7119	3.9213
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	12.0380	11.8671	38.8528	36.2417	38.5527	83.0%	1.0574	0.1782
2	14:19:04	12.1584	12.0156	39.6348	38.0162	39.6484	79.1%	0.9110	0.2885
3	14:20:11	12.2894	12.0273	40.1081	39.0168	39.7237	77.9%	1.2650	-0.0133
X		12.1620	11.9700	39.5319	37.7582	39.3082	80.0%	1.0778	0.1511
σ		0.1257	0.0893	0.6340	1.4054	0.6554	2.6%	0.1779	0.1527
%RSD		1.0338	0.7461	1.6037	3.7222	1.6674	3.3	16.5036	101.0452
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	-0.7901	0.3007	84.1%	0.7891	0.8466	0.8003	83.6%	0.0095
2	14:19:04	-0.2171	-0.3860	82.7%	0.7828	0.8456	0.8077	82.2%	0.0108
3	14:20:11	-0.5621	0.3954	82.0%	0.8319	0.8767	0.8041	81.6%	0.0103
X		-0.5231	0.1034	82.9%	0.8013	0.8563	0.8040	82.5%	0.0102
σ		0.2885	0.4265	1.1%	0.0268	0.0177	0.0037	1.0%	0.0006
%RSD		55.1478	412.5286	1.3	3.3390	2.0636	0.4634	1.2	6.1150
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	0.0112	0.0321	0.0298	0.0325	84.8%	0.1275	0.1699	0.1594
2	14:19:04	0.0081	0.0250	0.0285	0.0291	86.3%	0.0891	0.1644	0.1259
3	14:20:11	0.0092	0.0225	0.0284	0.0297	84.0%	0.0609	0.1597	0.1415
X		0.0095	0.0265	0.0289	0.0304	85.0%	0.0925	0.1646	0.1423
σ		0.0016	0.0050	0.0008	0.0018	1.2%	0.0335	0.0051	0.0167
%RSD		16.5384	18.6824	2.7373	5.9146	1.4	36.1674	3.0998	11.7549
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:17:56	0.3091	0.3051	1.9303	1.7828	1.8827	91.2%	-0.0073	-0.0070
2	14:19:04	0.3129	0.3246	1.9061	1.8153	1.8228	92.6%	-0.0061	-0.0073
3	14:20:11	0.3278	0.3140	1.8766	1.8909	1.8411	92.0%	-0.0062	-0.0081
X		0.3166	0.3145	1.9044	1.8297	1.8489	91.9%	-0.0065	-0.0075
σ		0.0099	0.0098	0.0269	0.0555	0.0307	0.7%	0.0007	0.0005
%RSD		3.1192	3.1053	1.4123	3.0313	1.6605	0.8	10.7178	7.1618
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:17:56	0.0932	0.0963	0.0962	0.0273		93.1%	-0.0073	
2	14:19:04	0.0954	0.0943	0.0946	0.0244		95.5%	-0.0075	
3	14:20:11	0.1048	0.0928	0.0937	0.0280		96.3%	-0.0073	
X		0.0978	0.0945	0.0948	0.0266		95.0%	-0.0074	
σ		0.0062	0.0017	0.0013	0.0019		1.7%	0.0001	
%RSD		6.3090	1.8232	1.3216	7.1744		1.7	1.2142	

K1012425-003 11/9/2010 2:24:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	88.4%	-0.0063	129.3537	128.2777	540.7682	24.0820	11.0922	121.3879
2	14:25:13	82.1%	-0.0072	134.0882	133.6216	548.4404	21.1757	8.5417	123.2792
3	14:26:20	80.7%	0.0065	137.0241	136.1113	549.0454	26.6748	9.8318	125.8834
X		83.8%	-0.0023	133.4887	132.6702	546.0847	23.9775	9.8219	123.5168
σ		4.1%	0.0077	3.8702	4.0026	4.6141	2.7510	1.2753	2.2571
%RSD		4.9	330.9270	2.8993	3.0169	0.8449	11.4734	12.9844	1.8274
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	2.6645	1.4899	1.5250	342.5957	0.4472	2.5240	8.0398	2.7126
2	14:25:13	2.7243	1.4805	1.4847	347.4823	0.4505	2.6376	6.6740	2.7670
3	14:26:20	2.6329	1.5183	1.5760	350.3183	0.4615	2.4585	6.8885	2.9478
X		2.6739	1.4962	1.5286	346.7988	0.4531	2.5400	7.2008	2.8092
σ		0.0464	0.0196	0.0457	3.9064	0.0075	0.0906	0.7345	0.1231
%RSD		1.7360	1.3130	2.9916	1.1264	1.6571	3.5681	10.2008	4.3832
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	67.2836	66.7670	112.6138	109.4350	111.4264	85.1%	2.4159	0.4885
2	14:25:13	67.3520	67.0547	115.0722	112.0115	113.9002	82.2%	2.4019	0.2395
3	14:26:20	67.3372	67.6333	115.5401	113.0352	113.2071	82.3%	2.4150	0.3764
X		67.3243	67.1517	114.4087	111.4939	112.8446	83.2%	2.4109	0.3681
σ		0.0360	0.4412	1.5719	1.8551	1.2762	1.7%	0.0078	0.1247
%RSD		0.0534	0.6571	1.3739	1.6638	1.1309	2.0	0.3243	33.8769
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	-0.5888	0.3184	89.6%	2.9129	3.0319	2.9263	84.4%	1.0630
2	14:25:13	-0.6724	0.3075	89.4%	2.9300	2.9456	2.9955	82.3%	1.0429
3	14:26:20	-0.4013	0.6401	87.7%	2.9478	3.1453	3.0279	82.8%	1.0495
X		-0.5542	0.4220	88.9%	2.9302	3.0409	2.9832	83.2%	1.0518
σ		0.1388	0.1890	1.0%	0.0175	0.1002	0.0519	1.1%	0.0102
%RSD		25.0443	44.7777	1.2	0.5962	3.2950	1.7404	1.3	0.9704
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	1.0290	0.1369	0.1334	0.1316	86.3%	0.1751	0.2604	0.2516
2	14:25:13	1.0301	0.1666	0.1450	0.1477	86.3%	0.1761	0.2594	0.2451
3	14:26:20	1.0372	0.1558	0.1490	0.1366	86.0%	0.1775	0.2097	0.2286
X		1.0321	0.1531	0.1425	0.1386	86.2%	0.1762	0.2432	0.2418
σ		0.0045	0.0150	0.0081	0.0083	0.2%	0.0012	0.0290	0.0119
%RSD		0.4323	9.8127	5.6786	5.9574	0.2	0.6926	11.9226	4.9057
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	0.5770	0.5890	22.5211	22.4802	22.5693	91.8%	-0.0025	-0.0025
2	14:25:13	0.5932	0.5685	22.7946	22.7077	22.8158	93.9%	-0.0032	-0.0023
3	14:26:20	0.5961	0.5985	22.7815	22.7983	22.7540	93.9%	0.0001	-0.0019
X		0.5888	0.5853	22.6991	22.6621	22.7131	93.2%	-0.0019	-0.0022
σ		0.0103	0.0154	0.1543	0.1639	0.1282	1.2%	0.0017	0.0003
%RSD		1.7557	2.6248	0.6797	0.7231	0.5646	1.3	91.6884	14.1055
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:24:06	2.8624	2.7550	2.8047	2.9916	94.4%	0.0936		
2	14:25:13	2.8494	2.7626	2.8092	3.0152	97.3%	0.0969		
3	14:26:20	2.8798	2.7480	2.7931	2.9938	97.4%	0.0973		
X		2.8639	2.7552	2.8023	3.0002	96.4%	0.0959		
σ		0.0152	0.0073	0.0083	0.0130	1.7%	0.0020		
%RSD		0.5323	0.2664	0.2977	0.4333	1.8	2.0978		

K1012425-004 11/9/2010 2:31:43 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	87.1%	0.0147	175.5488	171.6923	781.4987	31.7016	21.4856	125.8220
2	14:32:50	81.2%	0.0197	172.2548	173.4357	766.3845	25.3998	16.4528	126.1885
3	14:33:57	80.1%	0.0090	181.9994	179.4463	768.9420	36.9148	15.9659	126.8428
x		82.8%	0.0145	176.6010	174.8581	772.2751	31.3387	17.9681	126.2844
σ		3.8%	0.0053	4.9568	4.0680	8.0897	5.7661	3.0560	0.5171
%RSD		4.6	36.8391	2.8068	2.3264	1.0475	18.3992	17.0078	0.4095
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	1.7220	1.6131	1.5878	67.1711	0.3705	2.5831	7.7469	2.9126
2	14:32:50	1.6967	1.6111	1.7280	66.8832	0.3486	2.5241	6.6141	2.6446
3	14:33:57	1.7933	1.6834	1.6430	67.3309	0.3884	2.5102	6.1729	2.9172
x		1.7373	1.6359	1.6529	67.1284	0.3692	2.5391	6.8446	2.8248
σ		0.0501	0.0412	0.0707	0.2269	0.0200	0.0387	0.8119	0.1561
%RSD		2.8832	2.5171	4.2747	0.3380	5.4052	1.5249	11.8626	5.5256
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	131.6641	132.9481	132.8896	128.8250	130.8938	83.4%	0.9956	0.2152
2	14:32:50	129.2960	129.6083	130.1694	125.9268	127.0814	82.2%	0.9375	0.5139
3	14:33:57	129.6981	130.3854	132.1241	126.4026	130.0982	81.0%	0.9277	0.2730
x		130.2194	130.9806	131.7277	127.0515	129.3578	82.2%	0.9536	0.3341
σ		1.2672	1.7477	1.4028	1.5542	2.0111	1.2%	0.0367	0.1584
%RSD		0.9731	1.3343	1.0649	1.2233	1.5547	1.4	3.8504	47.4183
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	-0.8790	0.3397	87.8%	0.4910	0.4808	0.5266	84.3%	0.0108
2	14:32:50	-0.3362	0.5813	86.7%	0.4690	0.5526	0.5233	82.5%	0.0156
3	14:33:57	-0.4214	0.2670	86.1%	0.5024	0.5203	0.5169	81.9%	0.0195
x		-0.5455	0.3960	86.9%	0.4875	0.5179	0.5223	82.9%	0.0153
σ		0.2919	0.1645	0.9%	0.0170	0.0360	0.0050	1.2%	0.0044
%RSD		53.5080	41.5400	1.0	3.4805	6.9451	0.9494	1.5	28.4257
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	0.0317	0.1345	0.2224	0.1782	84.9%	1.2448	1.6559	1.6011
2	14:32:50	0.0150	0.1341	0.2369	0.1875	86.2%	1.1298	1.5695	1.5638
3	14:33:57	0.0182	0.1550	0.2257	0.1870	85.5%	1.1273	1.6089	1.6078
x		0.0216	0.1412	0.2283	0.1843	85.5%	1.1673	1.6114	1.5909
σ		0.0089	0.0119	0.0076	0.0052	0.7%	0.0671	0.0432	0.0237
%RSD		41.1575	8.4513	3.3386	2.8308	0.8	5.7523	2.6833	1.4919
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	0.2126	0.2222	17.3835	17.3216	17.5032	92.3%	-0.0043	-0.0014
2	14:32:50	0.1971	0.1994	16.9113	17.2074	17.0152	93.2%	-0.0061	-0.0043
3	14:33:57	0.2057	0.2192	17.2124	17.4900	17.3233	92.6%	-0.0024	-0.0026
x		0.2051	0.2136	17.1691	17.3397	17.2806	92.7%	-0.0043	-0.0028
σ		0.0078	0.0124	0.2391	0.1421	0.2468	0.4%	0.0019	0.0015
%RSD		3.7819	5.7954	1.3926	0.8197	1.4281	0.5	44.2745	51.9845
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:31:43	1.5157	1.4546	1.5007	2.9178	93.9%	0.0929		
2	14:32:50	1.5619	1.4738	1.5034	2.9009	96.2%	0.0958		
3	14:33:57	1.4958	1.4926	1.4977	2.9181	96.0%	0.0983		
x		1.5244	1.4736	1.5006	2.9123	95.4%	0.0957		
σ		0.0339	0.0190	0.0028	0.0098	1.3%	0.0027		
%RSD		2.2253	1.2883	0.1888	0.3365	1.3	2.8419		



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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	84.4%	1.4823	38.2932	37.0217	375.7629	123.5547	124.8733	124.3237
2	14:38:14	79.7%	1.5401	36.5645	35.5631	365.8037	114.5061	122.3232	122.9356
3	14:39:22	77.0%	1.4680	37.1973	36.2799	371.4797	113.3991	124.2291	121.5202
x		80.4%	1.4968	37.3517	36.2882	371.0154	117.1533	123.8085	122.9265
σ		3.8%	0.0382	0.8746	0.7293	4.9958	5.5714	1.3261	1.4018
%RSD		4.7	2.5504	2.3416	2.0098	1.3465	4.7556	1.0711	1.1403
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	206.9383	77.7036	81.9261	3.1794	0.5694	11.3045	11.6080	18.6030
2	14:38:14	204.3017	76.7321	81.0944	3.1613	0.5524	11.2508	12.8988	19.1985
3	14:39:22	204.7699	76.6885	81.8778	3.1379	0.5584	11.0583	11.5059	19.2325
x		205.3366	77.0414	81.6328	3.1595	0.5601	11.2045	12.0042	19.0113
σ		1.4067	0.5739	0.4668	0.0208	0.0086	0.1295	0.7764	0.3540
%RSD		0.6851	0.7449	0.5719	0.6578	1.5331	1.1554	6.4674	1.8622
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	10.2772	2.5872	3.6339	6.5467	4.4529	90.7%	10.8325	3.5961
2	14:38:14	10.3208	2.5930	3.5385	6.1600	4.4976	87.6%	11.0412	3.4314
3	14:39:22	10.2399	2.6493	3.5653	5.7010	4.3207	86.6%	10.7248	3.1567
x		10.2793	2.6098	3.5792	6.1359	4.4237	88.3%	10.8662	3.3947
σ		0.0405	0.0343	0.0492	0.4234	0.0920	2.2%	0.1608	0.2220
%RSD		0.3937	1.3141	1.3750	6.9000	2.0802	2.5	1.4802	6.5389
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	-3.8932	0.6937	980.9%	4.5824	6.0999	6.6125	78.0%	0.0092
2	14:38:14	-3.2810	0.7361	968.2%	4.6559	6.0700	6.7088	75.9%	0.0114
3	14:39:22	-3.2323	0.5724	953.9%	4.6421	6.1241	6.7065	75.2%	0.0063
x		-3.4688	0.6674	967.7%	4.6268	6.0980	6.6759	76.4%	0.0090
σ		0.3683	0.0850	13.5%	0.0390	0.0271	0.0550	1.5%	0.0026
%RSD		10.6175	12.7335	1.4	0.8440	0.4451	0.8232	1.9	28.6520
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	0.0090	0.0474	0.0469	0.0461	81.3%	0.2446	-0.0031	0.0044
2	14:38:14	0.0071	0.0542	0.0324	0.0476	81.1%	0.1963	0.0146	0.0072
3	14:39:22	0.0070	0.0436	0.0361	0.0386	78.9%	0.1821	0.0102	0.0010
x		0.0077	0.0484	0.0385	0.0441	80.4%	0.2077	0.0072	0.0042
σ		0.0011	0.0054	0.0075	0.0048	1.3%	0.0328	0.0092	0.0031
%RSD		14.2569	11.1714	19.5161	10.9011	1.7	15.7901	127.6920	73.1052
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	0.1804	0.1997	29.4254	29.3720	29.5041	97.6%	-0.0065	-0.0054
2	14:38:14	0.1721	0.1836	29.2090	29.3153	29.4233	98.3%	-0.0072	-0.0063
3	14:39:22	0.2003	0.1872	29.5337	29.5553	30.2667	97.7%	-0.0042	-0.0064
x		0.1842	0.1901	29.3894	29.4142	29.7314	97.9%	-0.0060	-0.0060
σ		0.0145	0.0085	0.1653	0.1255	0.4653	0.4%	0.0016	0.0006
%RSD		7.8571	4.4534	0.5625	0.4266	1.5652	0.4	26.2087	9.1613
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:37:07	1.0940	1.0476	1.0414	0.0003	202.4%	2.7250		
2	14:38:14	1.0774	1.0459	1.0365	-0.0024	209.2%	2.6888		
3	14:39:22	1.1087	1.0313	1.0418	-0.0053	211.0%	2.6619		
x		1.0934	1.0416	1.0399	-0.0025	207.5%	2.6919		
σ		0.0157	0.0090	0.0030	0.0028	4.6%	0.0316		
%RSD		1.4363	0.8619	0.2858	111.5496	2.2	1.1754		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	92.4%	-0.0169	1.1307	1.2909	0.0526	8.0014	-0.0847	0.1053
2	14:45:34	87.0%	-0.0185	1.2428	1.0726	0.1141	5.8228	0.0392	0.1040
3	14:46:41	86.4%	-0.0164	0.6415	0.9058	0.1014	12.9788	-0.0811	0.1141
x		88.6%	-0.0173	1.0050	1.0898	0.0894	8.9343	-0.0422	0.1078
σ		3.3%	0.0011	0.3198	0.1931	0.0325	3.6681	0.0705	0.0055
%RSD		3.7	6.4218	31.8154	17.7192	36.3302	41.0564	167.2188	5.1050
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	0.0156	0.0008	0.2624	0.0030	-0.0113	0.0093	0.2131	2.5610
2	14:45:34	0.0213	0.0001	0.2292	0.0040	-0.0134	-0.0016	0.2463	2.6139
3	14:46:41	0.0064	-0.0210	0.1794	0.0050	-0.0119	0.0058	0.1771	2.4518
x		0.0144	-0.0067	0.2236	0.0040	-0.0122	0.0045	0.2121	2.5423
σ		0.0075	0.0124	0.0418	0.0010	0.0011	0.0056	0.0346	0.0827
%RSD		52.0811	185.6986	18.6841	25.2446	8.7134	123.9689	16.3103	3.2516
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	0.1190	0.0138	0.0315	0.0425	0.0099	88.2%	0.0874	0.0270
2	14:45:34	0.0972	0.0021	0.0267	-0.0011	0.0274	85.0%	-0.0221	-0.0749
3	14:46:41	0.1010	0.0113	0.0438	0.0263	0.0388	85.6%	0.0098	0.0340
x		0.1057	0.0091	0.0340	0.0226	0.0254	86.3%	0.0250	-0.0046
σ		0.0117	0.0061	0.0088	0.0220	0.0145	1.7%	0.0563	0.0609
%RSD		11.0306	67.5987	25.9621	97.4065	57.2940	1.9	225.0290	1321.6436
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.1773	0.3025	87.8%	-0.0265	-0.0294	-0.0179	89.2%	-0.0022
2	14:45:34	-0.4185	-0.2224	86.7%	-0.0208	-0.0244	-0.0173	89.4%	-0.0033
3	14:46:41	0.1586	0.0275	86.4%	-0.0293	-0.0153	-0.0227	87.9%	-0.0026
x		-0.1457	0.0359	87.0%	-0.0255	-0.0231	-0.0193	88.8%	-0.0027
σ		0.2898	0.2626	0.8%	0.0043	0.0071	0.0030	0.8%	0.0006
%RSD		198.8960	732.0343	0.9	16.9774	30.9647	15.3180	0.9	20.4831
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.0020	-0.0006	-0.0094	-0.0027	89.2%	-0.0983	-0.1198	-0.1326
2	14:45:34	-0.0023	-0.0006	-0.0076	-0.0039	90.2%	-0.1118	-0.1352	-0.1218
3	14:46:41	-0.0018	0.0004	-0.0072	-0.0039	90.0%	-0.1048	-0.1142	-0.1329
x		-0.0020	-0.0002	-0.0081	-0.0035	89.8%	-0.1049	-0.1231	-0.1291
σ		0.0002	0.0005	0.0012	0.0007	0.5%	0.0067	0.0108	0.0064
%RSD		11.3801	220.0947	14.9189	19.2652	0.6	6.4305	8.8169	4.9223
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.0014	-0.0016	-0.0093	-0.0062	-0.0104	92.8%	-0.0058	-0.0056
2	14:45:34	-0.0004	-0.0019	-0.0058	-0.0043	-0.0064	94.1%	-0.0070	-0.0077
3	14:46:41	-0.0001	-0.0009	-0.0082	0.0045	-0.0062	94.4%	-0.0079	-0.0074
x		-0.0006	-0.0015	-0.0078	-0.0020	-0.0077	93.8%	-0.0069	-0.0069
σ		0.0007	0.0005	0.0018	0.0057	0.0024	0.9%	0.0010	0.0011
%RSD		113.3230	35.3983	22.7437	289.5608	30.9011	0.9	14.7380	16.2048
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:44:26	-0.0057	-0.0086	-0.0075	-0.0181	94.1%	-0.0089		
2	14:45:34	-0.0047	-0.0072	-0.0079	-0.0194	96.7%	-0.0090		
3	14:46:41	-0.0063	-0.0082	-0.0076	-0.0193	96.6%	-0.0086		
x		-0.0056	-0.0080	-0.0077	-0.0190	95.8%	-0.0088		
σ		0.0008	0.0007	0.0002	0.0008	1.5%	0.0002		
%RSD		14.7725	9.1141	2.5761	3.9778	1.5	2.4942		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	94.1%	20.6106	2.3960	2.0208	19.6018	0.6290	0.4201	0.0832
2	14:50:44	89.0%	20.6532	2.4945	2.0580	19.7705	2.2309	0.2352	0.0745
3	14:51:51	87.2%	20.9083	2.1194	1.9849	19.5720	1.5703	0.2404	0.0611
X		90.1%	20.7240	2.3366	2.0212	19.6481	1.4767	0.2986	0.0729
σ		3.6%	0.1610	0.1945	0.0365	0.1071	0.8050	0.1053	0.0111
%RSD		4.0	0.7769	8.3238	1.8073	0.5448	54.5125	35.2641	15.2845
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	19.5160	19.9947	19.9334	19.9427	19.8190	19.8719	19.4421	21.6274
2	14:50:44	19.3881	19.4318	19.4984	19.8450	19.5922	19.7315	19.2551	21.5230
3	14:51:51	19.4133	19.4740	19.6206	19.7324	19.3572	19.6442	19.6217	21.8006
X		19.4391	19.6335	19.6842	19.8400	19.5895	19.7492	19.4396	21.6503
σ		0.0678	0.3135	0.2244	0.1053	0.2309	0.1149	0.1833	0.1402
%RSD		0.3486	1.5970	1.1398	0.5305	1.1787	0.5817	0.9430	0.6476
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.0983	20.1098	20.7865	20.7872	20.6248	88.2%	20.6367	18.4195
2	14:50:44	19.7606	20.3630	20.4810	20.4632	20.5331	87.2%	19.8595	19.3109
3	14:51:51	19.8692	20.1329	20.7924	20.6826	20.4863	86.5%	19.5418	19.2901
X		19.9094	20.2019	20.6866	20.6443	20.5481	87.3%	20.0127	19.0068
σ		0.1724	0.1400	0.1781	0.1653	0.0704	0.8%	0.5633	0.5088
%RSD		0.8660	0.6931	0.8609	0.8009	0.3427	1.0	2.8148	2.6768
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	19.1257	20.5058	88.5%	20.1812	20.3366	20.4396	90.4%	20.2306
2	14:50:44	19.2465	19.9109	88.1%	20.3385	20.5990	20.3889	90.1%	20.1865
3	14:51:51	19.1192	18.7501	87.9%	20.3988	20.8356	20.7075	89.4%	20.3644
X		19.1638	19.7223	88.2%	20.3062	20.5904	20.5120	90.0%	20.2605
σ		0.0717	0.8929	0.3%	0.1124	0.2496	0.1712	0.5%	0.0926
%RSD		0.3740	4.5275	0.3	0.5533	1.2124	0.8346	0.6	0.4571
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.2071	20.3466	19.4743	20.0484	90.7%	6.0414	-0.0900	-0.0874
2	14:50:44	20.0100	20.5997	19.0846	19.7889	91.1%	5.9010	-0.0828	-0.0996
3	14:51:51	20.1838	20.4693	19.2681	20.1313	90.4%	5.8595	-0.0999	-0.1007
X		20.1337	20.4718	19.2757	19.9895	90.7%	5.9339	-0.0909	-0.0959
σ		0.1077	0.1265	0.1949	0.1786	0.3%	0.0953	0.0086	0.0074
%RSD		0.5351	0.6181	1.0112	0.8936	0.4	1.6064	9.4117	7.7014
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.4498	20.0110	20.0052	20.2407	19.9066	94.0%	19.8545	20.0308
2	14:50:44	20.4986	20.1798	19.8270	20.2740	19.9021	95.5%	20.0636	20.1139
3	14:51:51	20.5857	20.3200	20.0360	20.1018	20.0916	96.1%	19.9307	19.9794
X		20.5114	20.1703	19.9561	20.2055	19.9667	95.2%	19.9496	20.0414
σ		0.0689	0.1547	0.1128	0.0913	0.1082	1.1%	0.1058	0.0679
%RSD		0.3357	0.7670	0.5653	0.4521	0.5417	1.1	0.5305	0.3387
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:49:36	19.8312	19.9160	19.9022	-0.0184	97.2%	19.9707		
2	14:50:44	20.1739	20.1432	20.1308	-0.0172	98.3%	20.1749		
3	14:51:51	19.9439	19.9862	19.9500	-0.0168	99.2%	19.9711		
X		19.9830	20.0152	19.9943	-0.0175	98.3%	20.0389		
σ		0.1747	0.1163	0.1206	0.0008	1.0%	0.1178		
%RSD		0.8740	0.5812	0.6032	4.7953	1.0	0.5877		

K1010795-001 11/9/2010 3:00:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	91.6%	-0.0030	10.5178	9.7131	11.4580	45.6554	1.5323	253.8576
2	15:01:13	85.8%	-0.0100	10.5853	10.2836	11.4770	39.4953	2.2296	255.1514
3	15:02:20	85.4%	-0.0184	10.4116	10.3484	11.4967	42.3922	1.6362	253.9646
X		87.6%	-0.0105	10.5049	10.1151	11.4772	42.5143	1.7994	254.3245
σ		3.5%	0.0077	0.0875	0.3496	0.0193	3.0819	0.3762	0.7181
%RSD		4.0	73.7104	0.8333	3.4561	0.1686	7.2490	20.9074	0.2824
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	2.2514	3.0503	3.2072	67.8218	0.3844	7.9782	20.4032	8.9908
2	15:01:13	2.3470	3.0768	3.1259	67.0097	0.3545	7.9387	17.5689	8.9474
3	15:02:20	2.3921	3.1054	3.1574	67.3970	0.3776	7.8349	16.6642	9.1348
X		2.3301	3.0775	3.1635	67.4095	0.3721	7.9173	18.2121	9.0244
σ		0.0719	0.0276	0.0410	0.4062	0.0157	0.0740	1.9507	0.0981
%RSD		3.0839	0.8964	1.2959	0.6026	4.2130	0.9346	10.7110	1.0872
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	1.8950	1.7455	4.6590	8.8054	7.7804	85.2%	1.8082	0.2523
2	15:01:13	1.8158	1.6893	4.6663	8.8566	7.6764	82.2%	1.4320	0.3585
3	15:02:20	1.8609	1.7276	4.5871	8.6006	7.3622	80.8%	1.7667	0.2991
X		1.8572	1.7208	4.6375	8.7542	7.6064	82.7%	1.6690	0.3033
σ		0.0398	0.0287	0.0437	0.1354	0.2177	2.3%	0.2063	0.0532
%RSD		2.1405	1.6697	0.9429	1.5471	2.8625	2.7	12.3597	17.5549
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.0636	0.4302	87.6%	3.1369	3.0988	3.1982	85.5%	-0.0012
2	15:01:13	-0.3807	-0.0679	85.8%	3.1486	3.2926	3.2087	84.1%	-0.0012
3	15:02:20	0.2952	0.5597	84.9%	3.1351	3.1763	3.2555	82.8%	-0.0009
X		-0.0073	0.3073	86.1%	3.1402	3.1892	3.2208	84.1%	-0.0011
σ		0.3435	0.3314	1.4%	0.0073	0.0975	0.0305	1.4%	0.0002
%RSD		4676.1053	107.8189	1.6	0.2321	3.0576	0.9461	1.6	15.0372
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.0001	0.0379	0.0361	0.0356	87.6%	0.0096	0.0150	0.0276
2	15:01:13	0.0006	0.0444	0.0327	0.0308	86.0%	0.0008	0.0080	0.0134
3	15:02:20	0.0004	0.0337	0.0365	0.0362	86.5%	0.0093	0.0131	0.0129
X		0.0004	0.0387	0.0351	0.0342	86.7%	0.0066	0.0120	0.0180
σ		0.0003	0.0054	0.0021	0.0030	0.8%	0.0050	0.0037	0.0083
%RSD		69.5334	13.9633	6.0205	8.6459	0.9	76.7379	30.3949	46.3937
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.1827	0.1673	116.8855	118.7982	120.9959	93.1%	0.0062	0.0104
2	15:01:13	0.1754	0.1669	118.8741	118.9108	121.1942	93.9%	0.0100	0.0069
3	15:02:20	0.1595	0.1834	117.8832	118.4020	120.9702	93.6%	0.0092	0.0075
X		0.1725	0.1725	117.8810	118.7037	121.0534	93.5%	0.0085	0.0083
σ		0.0119	0.0094	0.9943	0.2672	0.1226	0.4%	0.0020	0.0019
%RSD		6.8950	5.4677	0.8435	0.2251	0.1013	0.5	23.8695	22.4159
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:00:06	0.3167	0.3082	0.3096	-0.0183	95.3%	4.9734		
2	15:01:13	0.3234	0.2928	0.3034	-0.0170	96.9%	4.9836		
3	15:02:20	0.3167	0.3304	0.3174	-0.0171	97.5%	5.0005		
X		0.3189	0.3104	0.3101	-0.0175	96.6%	4.9858		
σ		0.0039	0.0189	0.0070	0.0007	1.2%	0.0137		
%RSD		1.2177	6.0835	2.2615	4.2906	1.2	0.2742		

K1010795-001D 11/9/2010 3:09:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	91.2%	-0.0168	10.9437	9.7783	11.3974	38.3560	1.7423	254.2186
2	15:10:39	86.4%	-0.0101	10.2622	10.2031	11.1513	38.3694	1.9771	253.5542
3	15:11:46	85.2%	-0.0077	9.2907	10.1937	11.2828	39.0102	2.3592	256.9856
x		87.6%	-0.0115	10.1655	10.0584	11.2772	38.5785	2.0262	254.9195
σ		3.2%	0.0047	0.8307	0.2426	0.1231	0.3739	0.3113	1.8199
%RSD		3.6	40.7758	8.1720	2.4120	1.0920	0.9692	15.3661	0.7139
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	2.3244	3.0732	3.2572	66.9664	0.3807	8.0123	20.2793	8.9579
2	15:10:39	2.3325	2.9665	3.0015	65.8717	0.3497	7.7601	16.8386	8.4683
3	15:11:46	2.3422	3.0992	3.1727	67.6586	0.3735	7.9145	17.6538	8.8791
x		2.3330	3.0463	3.1438	66.8322	0.3679	7.8956	18.2572	8.7684
σ		0.0089	0.0703	0.1303	0.9010	0.0162	0.1272	1.7980	0.2629
%RSD		0.3811	2.3076	4.1438	1.3481	4.4074	1.6106	9.8480	2.9984
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	1.9323	1.8244	4.0189	8.1419	7.2189	83.7%	1.6759	0.2607
2	15:10:39	1.7700	1.6562	4.0397	8.2664	7.3348	82.3%	1.6338	0.2692
3	15:11:46	1.8898	1.7738	4.2324	8.5278	7.1207	78.7%	1.7095	0.2641
x		1.8640	1.7515	4.0970	8.3120	7.2248	81.6%	1.6731	0.2647
σ		0.0842	0.0863	0.1177	0.1970	0.1072	2.6%	0.0379	0.0043
%RSD		4.5148	4.9283	2.8733	2.3697	1.4832	3.2	2.2662	1.6200
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	-0.7812	0.2790	86.4%	3.1390	3.2690	3.1822	84.5%	-0.0016
2	15:10:39	-0.5050	0.3631	85.2%	3.1838	3.1916	3.1760	83.3%	-0.0014
3	15:11:46	-0.7256	0.4047	84.0%	3.1377	3.2858	3.2571	82.4%	-0.0016
x		-0.6706	0.3490	85.2%	3.1535	3.2488	3.2051	83.4%	-0.0015
σ		0.1461	0.0640	1.2%	0.0262	0.0502	0.0451	1.0%	0.0001
%RSD		21.7839	18.3513	1.4	0.8318	1.5462	1.4079	1.2	8.7646
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	-0.0008	0.0374	0.0416	0.0310	86.3%	0.0143	0.0145	0.0377
2	15:10:39	-0.0010	0.0376	0.0360	0.0350	86.3%	-0.0003	0.0178	0.0260
3	15:11:46	-0.0024	0.0401	0.0425	0.0396	85.1%	0.0095	0.0318	0.0185
x		-0.0014	0.0384	0.0401	0.0352	85.9%	0.0078	0.0214	0.0274
σ		0.0009	0.0015	0.0035	0.0043	0.7%	0.0074	0.0092	0.0097
%RSD		62.7215	3.8733	8.8050	12.2234	0.8	95.3446	43.1669	35.2762
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	0.1822	0.1756	118.3235	118.4022	120.5502	92.1%	0.0029	0.0082
2	15:10:39	0.1687	0.1664	117.9885	118.0529	120.6134	93.7%	0.0065	0.0083
3	15:11:46	0.1779	0.1591	116.3885	117.9075	120.5787	94.1%	0.0073	0.0073
x		0.1763	0.1670	117.5668	118.1209	120.5807	93.3%	0.0056	0.0079
σ		0.0069	0.0083	1.0341	0.2542	0.0317	1.1%	0.0023	0.0005
%RSD		3.9059	4.9663	0.8796	0.2152	0.0263	1.2	42.0201	6.5797
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:09:31	0.3354	0.3131	0.3133	-0.0174	94.7%	4.9806		
2	15:10:39	0.3210	0.3196	0.3124	-0.0182	97.1%	4.9748		
3	15:11:46	0.3036	0.3014	0.3039	-0.0187	96.8%	4.9986		
x		0.3200	0.3114	0.3099	-0.0181	96.2%	4.9847		
σ		0.0159	0.0092	0.0052	0.0006	1.3%	0.0124		
%RSD		4.9838	2.9576	1.6677	3.5070	1.3	0.2493		

CRA 11/9/2010 3:17:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	91.1%	0.0130	0.7647	0.7438	5.8583	4.7864	0.1185	0.1450
2	15:18:18	85.4%	0.0049	1.2709	0.6729	5.5806	-1.5494	-0.0450	0.0997
3	15:19:25	83.1%	0.0078	0.8900	0.6281	5.6281	-1.4001	0.0472	0.1510
x		86.6%	0.0086	0.9752	0.6816	5.6890	0.6123	0.0402	0.1319
σ		4.1%	0.0041	0.2636	0.0583	0.1485	3.6157	0.0820	0.0280
%RSD		4.8	47.9600	27.0340	8.5572	2.6109	590.4672	203.6533	21.2352
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.2145	0.2048	0.1697	0.0564	0.0074	0.1943	0.5549	0.9703
2	15:18:18	0.1470	0.1704	0.2822	0.0536	-0.0010	0.1653	0.4541	1.0985
3	15:19:25	0.1558	0.1796	0.3202	0.0513	0.0105	0.2316	0.0741	1.1753
x		0.1724	0.1850	0.2574	0.0538	0.0057	0.1971	0.3610	1.0814
σ		0.0366	0.0178	0.0783	0.0025	0.0059	0.0333	0.2535	0.1036
%RSD		21.2519	9.6229	30.4116	4.7310	105.0302	16.8834	70.2303	9.5798
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.1292	0.1010	0.5420	0.3645	0.5520	85.8%	0.4835	1.4496
2	15:18:18	0.1373	0.1262	0.5332	0.4576	0.4587	84.1%	0.5528	0.8180
3	15:19:25	0.1225	0.1078	0.5099	0.6317	0.5418	82.2%	0.5531	0.9331
x		0.1297	0.1117	0.5284	0.4846	0.5175	84.0%	0.5298	1.0669
σ		0.0074	0.0131	0.0166	0.1356	0.0512	1.8%	0.0401	0.3364
%RSD		5.7437	11.6899	3.1329	27.9867	9.8911	2.1	7.5656	31.5304
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.4106	1.1573	87.3%	0.0460	0.0432	0.0341	87.7%	0.0188
2	15:18:18	0.7033	1.1672	85.3%	0.0325	0.0422	0.0374	86.8%	0.0179
3	15:19:25	0.7814	0.9821	83.5%	0.0261	0.0250	0.0207	86.9%	0.0124
x		0.6318	1.1022	85.4%	0.0349	0.0368	0.0307	87.1%	0.0164
σ		0.1955	0.1041	1.9%	0.0102	0.0102	0.0088	0.5%	0.0035
%RSD		30.9391	9.4484	2.3	29.2182	27.7521	28.7152	0.6	21.1943
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.0173	0.0192	0.0151	0.0160	89.4%	0.0408	0.0314	0.0423
2	15:18:18	0.0211	0.0269	0.0135	0.0234	88.9%	-0.0005	0.0377	0.0357
3	15:19:25	0.0167	0.0205	0.0067	0.0250	87.5%	0.0069	0.0120	0.0214
x		0.0183	0.0222	0.0118	0.0215	88.6%	0.0157	0.0270	0.0331
σ		0.0024	0.0041	0.0045	0.0048	1.0%	0.0220	0.0134	0.0107
%RSD		13.1202	18.6354	37.9828	22.4883	1.1	140.0515	49.5654	32.1375
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.0485	0.0566	0.0385	0.0449	0.0462	92.1%	0.0135	0.0111
2	15:18:18	0.0558	0.0499	0.0433	0.0406	0.0511	93.9%	0.0114	0.0125
3	15:19:25	0.0630	0.0531	0.0416	0.0593	0.0466	93.8%	0.0045	0.0105
x		0.0558	0.0532	0.0411	0.0483	0.0480	93.3%	0.0098	0.0114
σ		0.0072	0.0034	0.0024	0.0098	0.0027	1.0%	0.0047	0.0010
%RSD		12.9603	6.3518	5.8491	20.3094	5.6339	1.1	48.0435	8.7121
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:17:11	0.0166	0.0106	0.0117	0.0288		94.5%		0.0105
2	15:18:18	0.0169	0.0137	0.0127	0.0281		96.1%		0.0100
3	15:19:25	0.0119	0.0127	0.0135	0.0282		96.0%		0.0130
x		0.0151	0.0123	0.0126	0.0284		95.5%		0.0112
σ		0.0028	0.0016	0.0009	0.0004		0.9%		0.0016
%RSD		18.7185	13.0659	7.1849	1.3037		1.0		14.6514

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	86.9%	26.0922	27.2170	25.9340	25.4257	20.8794	25.6118	24.9160
2	15:28:30	83.4%	26.6820	26.3778	26.7829	24.9148	21.1285	24.2340	24.7609
3	15:29:37	83.2%	25.8881	25.2980	26.7275	24.4536	23.9207	24.4626	24.5993
x		84.5%	26.2208	26.2976	26.4815	24.9314	21.9762	24.7694	24.7587
σ		2.1%	0.4123	0.9620	0.4749	0.4862	1.6886	0.7384	0.1583
%RSD		2.5	1.5724	3.6582	1.7935	1.9503	7.6837	2.9810	0.6396
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	24.9627	24.9724	24.9979	25.1039	24.6899	25.2386	25.8660	25.6115
2	15:28:30	24.6110	24.6896	24.1641	25.0973	24.4974	24.3977	23.9586	25.5744
3	15:29:37	24.2428	24.5474	24.9030	25.1057	24.7763	24.8840	23.8518	25.2855
x		24.6055	24.7364	24.6883	25.1023	24.6545	24.8401	24.5588	25.4905
σ		0.3600	0.2163	0.4564	0.0044	0.1428	0.4222	1.1333	0.1785
%RSD		1.4631	0.8746	1.8488	0.0177	0.5791	1.6997	4.6146	0.7001
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.5349	25.7761	26.3354	26.3224	26.0049	84.7%	26.4648	26.0771
2	15:28:30	24.9451	25.2480	25.8908	25.2309	25.9803	84.2%	25.1105	26.3711
3	15:29:37	25.2183	25.1648	26.3505	26.5142	26.1396	82.8%	25.7961	26.4017
x		25.2328	25.3963	26.1922	26.0225	26.0416	83.9%	25.7904	26.2833
σ		0.2952	0.3315	0.2612	0.6922	0.0857	1.0%	0.6772	0.1792
%RSD		1.1697	1.3054	0.9972	2.6600	0.3292	1.2	2.6257	0.6818
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.7256	26.5245	86.5%	25.8763	25.7549	26.0066	89.0%	25.5152
2	15:28:30	24.9962	25.3180	86.5%	25.6758	25.9572	25.8066	87.9%	25.6308
3	15:29:37	25.0733	27.1509	85.2%	26.1698	26.4462	26.1201	85.8%	25.8766
x		25.2650	26.3311	86.1%	25.9073	26.0528	25.9778	87.6%	25.6742
σ		0.4007	0.9316	0.8%	0.2484	0.3554	0.1588	1.6%	0.1845
%RSD		1.5860	3.5380	0.9	0.9590	1.3642	0.6111	1.9	0.7188
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.4527	25.9108	25.9669	26.0008	89.9%	25.6246	25.6541	25.6827
2	15:28:30	25.4467	25.7093	25.4754	25.6532	90.9%	25.3084	25.4116	25.3014
3	15:29:37	25.5977	26.2822	25.8198	25.5587	90.5%	25.2194	25.3322	25.3315
x		25.4990	25.9674	25.7541	25.7376	90.4%	25.3841	25.4660	25.4385
σ		0.0855	0.2906	0.2523	0.2328	0.5%	0.2130	0.1677	0.2120
%RSD		0.3354	1.1192	0.9796	0.9045	0.5	0.8390	0.6585	0.8334
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	26.0292	25.9725	25.4595	25.5339	25.5167	94.4%	25.3447	25.4824
2	15:28:30	25.8909	25.6067	24.9652	25.1467	25.2545	96.3%	25.2679	25.3711
3	15:29:37	25.9958	25.6078	25.4192	25.1401	25.2985	96.4%	25.2731	25.3289
x		25.9720	25.7290	25.2813	25.2735	25.3565	95.7%	25.2952	25.3941
σ		0.0721	0.2109	0.2745	0.2255	0.1404	1.1%	0.0429	0.0793
%RSD		0.2777	0.8197	1.0857	0.8921	0.5538	1.2	0.1696	0.3123
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:27:23	25.4399	25.4741	25.4336	25.2683	98.3%	25.5334		
2	15:28:30	25.3942	25.2205	25.3236	25.1893	100.4%	25.4899		
3	15:29:37	25.4922	25.2871	25.3588	25.3014	101.0%	25.4948		
x		25.4421	25.3272	25.3720	25.2530	99.9%	25.5061		
σ		0.0490	0.1315	0.0562	0.0576	1.5%	0.0238		
%RSD		0.1927	0.5191	0.2215	0.2281	1.5	0.0934		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	88.1%	-0.0206	-0.0245	0.1169	-0.0120	0.9750	-0.0797	0.0210
2	15:38:57	82.9%	-0.0095	-0.0080	0.2037	-0.0045	5.3657	-0.0763	0.0073
3	15:40:05	81.4%	-0.0048	0.3488	0.1450	0.0064	-1.0329	0.0166	0.0157
X		84.1%	-0.0116	0.1054	0.1552	-0.0033	1.7693	-0.0465	0.0147
σ		3.5%	0.0082	0.2109	0.0443	0.0093	3.2724	0.0546	0.0070
%RSD		4.2	70.1347	200.0645	28.5561	276.7210	184.9573	117.6004	47.3798
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	-0.0115	-0.0342	0.0271	0.0079	-0.0033	-0.0105	-0.1345	0.8267
2	15:38:57	-0.0162	-0.0600	0.0187	0.0068	-0.0023	-0.0008	0.0183	0.9924
3	15:40:05	-0.0068	-0.0379	0.0052	0.0072	-0.0041	-0.0006	-0.0094	0.9110
X		-0.0115	-0.0440	0.0170	0.0073	-0.0033	-0.0039	-0.0419	0.9101
σ		0.0047	0.0140	0.0110	0.0006	0.0009	0.0056	0.0814	0.0828
%RSD		40.7186	31.6896	64.8127	7.6514	27.1742	143.3149	194.4943	9.1028
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0238	0.0026	0.0011	0.0092	0.0147	82.6%	0.0102	-0.0016
2	15:38:57	0.0347	0.0069	-0.0010	0.0103	0.0182	80.4%	-0.0248	0.0292
3	15:40:05	0.0318	-0.0016	0.0009	-0.0091	0.0251	79.6%	-0.0830	0.0069
X		0.0301	0.0026	0.0003	0.0035	0.0193	80.9%	-0.0325	0.0115
σ		0.0056	0.0042	0.0012	0.0109	0.0053	1.6%	0.0471	0.0159
%RSD		18.6530	160.6689	363.1154	313.0441	27.1851	1.9	144.7224	138.6204
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	-0.1711	0.0276	83.9%	0.0118	0.0090	0.0167	85.0%	0.0002
2	15:38:57	-0.3532	-0.0723	81.1%	0.0057	0.0273	0.0113	84.2%	-0.0005
3	15:40:05	-0.1522	-0.3046	81.7%	0.0057	0.0236	0.0055	83.2%	-0.0004
X		-0.2255	-0.1164	82.2%	0.0078	0.0200	0.0112	84.1%	-0.0002
σ		0.1110	0.1704	1.5%	0.0035	0.0097	0.0056	0.9%	0.0004
%RSD		49.2159	146.3838	1.8	45.1161	48.4364	50.1391	1.1	150.7882
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0006	0.0004	-0.0035	-0.0034	86.3%	-0.0503	-0.0161	-0.0279
2	15:38:57	-0.0005	-0.0006	-0.0059	-0.0010	85.8%	-0.0385	-0.0146	-0.0191
3	15:40:05	-0.0005	0.0004	-0.0014	-0.0001	84.5%	-0.0676	-0.0289	-0.0126
X		-0.0002	0.0001	-0.0036	-0.0015	85.5%	-0.0521	-0.0199	-0.0199
σ		0.0007	0.0006	0.0023	0.0017	1.0%	0.0146	0.0079	0.0077
%RSD		434.8874	576.5491	63.0425	116.7529	1.1	28.0864	39.6405	38.6864
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0022	0.0006	-0.0088	-0.0079	-0.0090	89.9%	-0.0100	-0.0095
2	15:38:57	0.0025	0.0024	-0.0088	-0.0021	-0.0041	90.5%	-0.0066	-0.0079
3	15:40:05	0.0023	-0.0008	-0.0061	0.0009	-0.0054	91.3%	-0.0073	-0.0078
X		0.0024	0.0007	-0.0079	-0.0030	-0.0062	90.6%	-0.0080	-0.0084
σ		0.0002	0.0016	0.0016	0.0044	0.0025	0.7%	0.0018	0.0010
%RSD		6.6763	224.8461	19.6986	145.4615	41.0726	0.8	22.4918	11.4097
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:37:50	-0.0043	-0.0049	-0.0061	-0.0163	92.2%	-0.0081		
2	15:38:57	-0.0023	-0.0064	-0.0053	-0.0166	94.6%	-0.0094		
3	15:40:05	-0.0064	-0.0079	-0.0059	-0.0164	94.4%	-0.0079		
X		-0.0043	-0.0064	-0.0058	-0.0164	93.7%	-0.0085		
σ		0.0021	0.0015	0.0005	0.0001	1.3%	0.0008		
%RSD		47.6675	23.2974	7.9379	0.8177	1.4	9.5150		



K1010795-001S 11/9/2010 3:45:03 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	84.0%	20.3812	9.2676	10.0212	29.8824	42.2274	1.8625	258.0186
2	15:46:10	80.8%	19.9639	11.5564	10.6015	30.1387	38.3472	1.8968	258.7139
3	15:47:18	77.5%	20.0877	9.6831	10.8652	29.5049	38.8425	1.8255	259.5638
x		80.8%	20.1443	10.1690	10.4960	29.8420	39.8057	1.8616	258.7654
σ		3.2%	0.2143	1.2193	0.4318	0.3188	2.1118	0.0357	0.7739
%RSD		4.0	1.0640	11.9905	4.1139	1.0683	5.3054	1.9153	0.2991
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	21.3334	22.2587	22.3774	87.2434	19.6267	27.5350	36.7968	28.1004
2	15:46:10	21.9200	22.2432	21.8978	88.2254	19.9897	27.2910	38.6728	27.7049
3	15:47:18	21.4809	22.1351	22.6345	88.7674	19.8429	27.3904	36.9528	27.7998
x		21.5781	22.2123	22.3032	88.0788	19.8198	27.4055	37.4741	27.8684
σ		0.3051	0.0673	0.3739	0.7725	0.1826	0.1227	1.0410	0.2065
%RSD		1.4140	0.3030	1.6764	0.8771	0.9212	0.4476	2.7780	0.7409
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	21.1646	21.1569	24.0088	28.3046	27.3688	77.5%	22.2911	20.1929
2	15:46:10	20.9662	21.1576	24.1778	27.6024	26.9449	75.0%	22.0464	19.9932
3	15:47:18	21.0773	20.8412	24.2978	28.6002	27.1528	73.0%	22.1538	21.3583
x		21.0694	21.0519	24.1615	28.1691	27.1555	75.1%	22.1638	20.5148
σ		0.0994	0.1825	0.1452	0.5125	0.2120	2.3%	0.1226	0.7373
%RSD		0.4718	0.8668	0.6008	1.8194	0.7807	3.0	0.5534	3.5939
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	19.9089	19.7798	80.7%	23.6898	24.2539	24.3013	79.3%	19.9948
2	15:46:10	20.5795	19.8356	79.2%	23.6468	24.3978	24.0426	77.6%	20.2076
3	15:47:18	19.3328	20.9864	77.6%	23.5537	24.0971	24.0455	76.0%	20.2589
x		19.9404	20.2006	79.1%	23.6301	24.2496	24.1298	77.6%	20.1538
σ		0.6240	0.6811	1.5%	0.0696	0.1504	0.1486	1.6%	0.1401
%RSD		3.1291	3.3717	2.0	0.2944	0.6202	0.6157	2.1	0.6951
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	19.8834	20.5044	19.3999	19.6610	82.2%	5.9682	0.0805	0.0612
2	15:46:10	20.0226	20.4497	19.4681	19.7052	81.7%	5.9875	0.0713	0.0571
3	15:47:18	20.0103	20.6073	19.3908	19.7422	80.0%	5.9706	0.0453	0.0434
x		19.9721	20.5205	19.4196	19.7028	81.3%	5.9754	0.0657	0.0539
σ		0.0771	0.0800	0.0422	0.0406	1.1%	0.0105	0.0182	0.0093
%RSD		0.3858	0.3898	0.2175	0.2062	1.4	0.1763	27.7463	17.3276
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	20.7076	20.5319	139.3360	140.3504	144.6719	89.8%	19.6594	19.6934
2	15:46:10	20.6848	20.4154	140.4996	141.6463	143.8733	90.5%	19.7863	19.6940
3	15:47:18	21.0527	20.5607	140.1982	140.5188	143.4521	89.2%	19.7412	19.7621
x		20.8150	20.5027	140.0112	140.8385	143.9991	89.9%	19.7290	19.7165
σ		0.2062	0.0769	0.6039	0.7046	0.6196	0.6%	0.0644	0.0395
%RSD		0.9904	0.3753	0.4313	0.5003	0.4303	0.7	0.3262	0.2002
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:45:03	19.9799	19.9393	19.8487	-0.0148	93.4%	25.3545		
2	15:46:10	19.7557	19.7939	19.8081	-0.0142	95.2%	25.5629		
3	15:47:18	19.8558	19.9806	19.9063	-0.0141	95.1%	25.4218		
x		19.8638	19.9046	19.8544	-0.0144	94.5%	25.4464		
σ		0.1123	0.0980	0.0494	0.0004	1.0%	0.1063		
%RSD		0.5655	0.4925	0.2487	2.7371	1.1	0.4179		

K1010795-002 11/9/2010 3:55:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	81.4%	0.0065	5.6223	5.1722	5.3159	46.5377	1.7225	327.0408
2	15:56:40	76.7%	-0.0011	6.0627	5.4901	5.2696	48.4494	1.5249	326.1788
3	15:57:48	73.6%	-0.0125	5.7147	5.7951	5.5665	50.7799	1.3788	329.4118
X		77.2%	-0.0024	5.7999	5.4858	5.3840	48.5890	1.5421	327.5438
σ		3.9%	0.0095	0.2322	0.3115	0.1597	2.1246	0.1725	1.6741
%RSD		5.1	401.0726	4.0040	5.6779	2.9669	4.3726	11.1869	0.5111
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	4.7885	1.1816	1.2626	39.4464	0.2823	1.3901	16.0219	1.9098
2	15:56:40	4.8363	1.1466	1.2052	39.5538	0.2682	1.5347	15.6702	2.0688
3	15:57:48	4.7195	1.1742	1.2544	39.6053	0.2837	1.3801	14.1076	2.2204
X		4.7814	1.1675	1.2407	39.5352	0.2781	1.4350	15.2666	2.0663
σ		0.0587	0.0184	0.0311	0.0811	0.0086	0.0865	1.0190	0.1553
%RSD		1.2283	1.5794	2.5044	0.2051	3.0768	6.0287	6.6747	7.5161
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	1.2934	1.1349	7.2201	9.1572	8.6649	73.7%	0.9054	0.4529
2	15:56:40	1.3079	1.2354	7.1054	8.8583	8.4595	71.1%	0.7276	0.5004
3	15:57:48	1.3056	1.1228	7.4685	9.0938	8.9710	70.2%	0.8138	0.4827
X		1.3023	1.1644	7.2647	9.0364	8.6985	71.6%	0.8156	0.4787
σ		0.0078	0.0618	0.1856	0.1575	0.2574	1.8%	0.0889	0.0240
%RSD		0.6010	5.3070	2.5550	1.7427	2.9596	2.5	10.9026	5.0211
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	-0.4765	0.8768	77.4%	1.9646	1.8861	1.8408	76.1%	-0.0009
2	15:56:40	-0.4624	0.4812	75.9%	1.8459	1.8608	1.9279	74.4%	-0.0000
3	15:57:48	-0.5185	0.5959	75.4%	1.8975	1.9429	1.9286	73.1%	-0.0013
X		-0.4858	0.6513	76.2%	1.9026	1.8966	1.8991	74.5%	-0.0007
σ		0.0292	0.2035	1.1%	0.0595	0.0421	0.0505	1.5%	0.0006
%RSD		6.0085	31.2492	1.4	3.1274	2.2179	2.6590	2.0	87.9940
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	0.0002	0.0145	0.0166	0.0136	78.3%	-0.0125	-0.0022	-0.0001
2	15:56:40	0.0000	0.0136	0.0073	0.0142	77.8%	-0.0398	-0.0004	-0.0086
3	15:57:48	-0.0007	0.0271	0.0184	0.0175	77.0%	-0.0456	-0.0183	-0.0102
X		-0.0002	0.0184	0.0141	0.0151	77.7%	-0.0326	-0.0069	-0.0063
σ		0.0005	0.0075	0.0060	0.0021	0.7%	0.0177	0.0098	0.0055
%RSD		319.4644	40.8555	42.2878	14.1512	0.9	54.1925	141.9584	86.4714
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	0.0528	0.0547	59.0632	59.2021	60.2932	85.7%	0.0047	0.0045
2	15:56:40	0.0553	0.0561	58.5279	58.6897	59.4950	87.3%	0.0043	0.0065
3	15:57:48	0.0546	0.0544	58.7603	59.1715	60.0413	86.2%	0.0036	0.0076
X		0.0543	0.0551	58.7838	59.0211	59.9431	86.4%	0.0042	0.0062
σ		0.0013	0.0009	0.2685	0.2874	0.4081	0.9%	0.0006	0.0016
%RSD		2.3313	1.6784	0.4567	0.4870	0.6807	1.0	13.1991	25.1351
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:55:33	0.3090	0.3084	0.3018	-0.0186	89.0%	8.8437		
2	15:56:40	0.3018	0.3017	0.2948	-0.0172	91.4%	8.7321		
3	15:57:48	0.3033	0.3028	0.2977	-0.0163	90.8%	8.8471		
X		0.3047	0.3043	0.2981	-0.0174	90.4%	8.8076		
σ		0.0038	0.0036	0.0035	0.0011	1.3%	0.0654		
%RSD		1.2367	1.1901	1.1749	6.5717	1.4	0.7428		

K1010795-003 11/9/2010 4:05:20 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	78.9%	-0.0110	0.2308	0.1186	1.1541	5.8708	0.3914	0.0867
2	16:06:28	74.6%	-0.0029	0.1135	-0.0334	1.1203	2.3298	0.3201	0.0805
3	16:07:35	71.4%	-0.0121	-0.0225	-0.0426	1.1641	2.8736	0.2751	0.0828
X		74.9%	-0.0087	0.1073	0.0142	1.1461	3.6914	0.3289	0.0833
σ		3.8%	0.0050	0.1267	0.0905	0.0229	1.9069	0.0587	0.0031
%RSD		5.0	57.8186	118.1350	636.3125	2.0015	51.6591	17.8351	3.7361
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-0.0004	0.0279	0.0584	0.0257	-0.0133	0.0104	0.2073	0.4793
2	16:06:28	0.0124	0.0313	0.0242	0.0284	-0.0114	0.0189	0.0178	0.6205
3	16:07:35	-0.0020	0.0423	0.0702	0.0378	-0.0095	0.0055	0.3595	0.5658
X		0.0033	0.0339	0.0509	0.0306	-0.0114	0.0116	0.1949	0.5552
σ		0.0079	0.0075	0.0239	0.0064	0.0019	0.0068	0.1712	0.0712
%RSD		236.5484	22.2373	46.9561	20.8401	16.9175	58.6142	87.8508	12.8171
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.0831	0.1007	3.2430	3.2963	3.1086	75.1%	0.0505	-0.0758
2	16:06:28	0.0939	0.0930	3.2077	2.9631	3.1301	71.4%	-0.0700	0.0870
3	16:07:35	0.1046	0.0967	3.4009	2.7914	3.3121	69.1%	-0.1120	0.0181
X		0.0939	0.0968	3.2839	3.0169	3.1836	71.9%	-0.0438	0.0098
σ		0.0108	0.0039	0.1029	0.2567	0.1118	3.0%	0.0844	0.0817
%RSD		11.4710	4.0028	3.1331	8.5088	3.5126	4.2	192.5371	835.5006
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-1.2411	0.0991	75.6%	-0.0280	-0.0136	-0.0078	77.7%	-0.0012
2	16:06:28	-0.3801	-0.1558	74.5%	-0.0157	-0.0087	-0.0117	76.6%	-0.0016
3	16:07:35	-0.3911	-0.3716	71.7%	-0.0174	-0.0061	-0.0088	74.9%	-0.0011
X		-0.6707	-0.1428	73.9%	-0.0203	-0.0094	-0.0094	76.4%	-0.0013
σ		0.4939	0.2356	2.0%	0.0067	0.0038	0.0020	1.4%	0.0003
%RSD		73.6414	164.9948	2.7	32.8165	40.2857	21.0018	1.8	23.5495
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-0.0021	0.0016	-0.0004	-0.0008	78.5%	-0.0283	-0.0252	-0.0215
2	16:06:28	-0.0003	0.0016	-0.0051	0.0005	78.5%	-0.0629	-0.0268	-0.0245
3	16:07:35	-0.0016	0.0005	-0.0007	0.0006	77.5%	-0.0676	-0.0287	-0.0338
X		-0.0013	0.0012	-0.0021	0.0001	78.2%	-0.0530	-0.0269	-0.0266
σ		0.0009	0.0006	0.0026	0.0008	0.6%	0.0215	0.0017	0.0064
%RSD		70.3684	49.1687	125.3696	1279.2896	0.8	40.5670	6.4950	24.0191
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.0026	0.0016	0.7660	0.7660	0.7724	85.5%	-0.0071	-0.0082
2	16:06:28	0.0008	0.0032	0.7738	0.7395	0.7742	86.6%	-0.0069	-0.0086
3	16:07:35	0.0014	-0.0003	0.7589	0.7893	0.7763	86.6%	-0.0088	-0.0092
X		0.0016	0.0015	0.7662	0.7649	0.7743	86.2%	-0.0076	-0.0087
σ		0.0009	0.0017	0.0074	0.0249	0.0020	0.7%	0.0011	0.0005
%RSD		59.0509	116.2363	0.9701	3.2605	0.2572	0.8	13.8104	5.6875
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:05:20	0.0009	-0.0013	-0.0018	-0.0180	89.4%	-0.0083		
2	16:06:28	0.0003	0.0004	-0.0020	-0.0178	90.9%	-0.0082		
3	16:07:35	-0.0040	-0.0030	-0.0027	-0.0184	90.8%	-0.0083		
X		-0.0009	-0.0013	-0.0021	-0.0181	90.4%	-0.0083		
σ		0.0027	0.0017	0.0005	0.0003	0.8%	0.0000		
%RSD		291.4764	136.0744	22.3039	1.6142	0.9	0.4441		

K1010850-001 11/9/2010 4:10:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	76.5%	-0.0129	8.4562	8.1062	12.4183	73.3257	1.5498	500.9632
2	16:11:39	72.9%	-0.0049	7.2651	8.6434	12.2592	72.9317	1.4852	501.6861
3	16:12:46	72.7%	-0.0098	8.8364	8.1817	11.7345	76.5098	1.0757	503.0562
x		74.0%	-0.0092	8.1859	8.3105	12.1373	74.2557	1.3702	501.9018
σ		2.2%	0.0040	0.8198	0.2908	0.3578	1.9620	0.2571	1.0630
%RSD		2.9	44.0328	10.0146	3.4996	2.9481	2.6422	18.7640	0.2118
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	1.4748	1.0691	1.7629	130.0609	0.8350	3.0979	22.0759	3.3072
2	16:11:39	1.5248	1.1429	1.5861	129.4474	0.8117	3.2215	22.3748	3.3310
3	16:12:46	1.4236	1.1257	1.7194	130.8170	0.8206	3.0728	22.0860	3.4568
x		1.4744	1.1126	1.6895	130.1084	0.8224	3.1307	22.1789	3.3650
σ		0.0506	0.0386	0.0921	0.6860	0.0117	0.0796	0.1697	0.0804
%RSD		3.4325	3.4677	5.4533	0.5273	1.4276	2.5433	0.7652	2.3897
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	1.1003	1.0407	6.8168	9.8486	9.3143	69.6%	0.9228	0.5143
2	16:11:39	1.1061	0.9093	6.8090	9.9276	9.2818	69.0%	0.9666	0.3631
3	16:12:46	1.0447	0.9565	6.9506	9.7999	9.5052	68.3%	0.9287	0.3410
x		1.0837	0.9688	6.8588	9.8587	9.3671	69.0%	0.9394	0.4061
σ		0.0339	0.0666	0.0796	0.0644	0.1207	0.6%	0.0237	0.0943
%RSD		3.1288	6.8709	1.1601	0.6537	1.2885	0.9	2.5281	23.2315
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	-0.8570	0.2859	74.9%	2.9020	2.9494	2.9331	72.6%	-0.0015
2	16:11:39	-0.7799	0.3831	73.7%	2.8674	3.0302	3.0214	70.8%	-0.0004
3	16:12:46	-0.8180	0.1595	73.4%	2.9518	3.0982	3.0589	70.6%	-0.0020
x		-0.8183	0.2762	74.0%	2.9071	3.0259	3.0045	71.3%	-0.0013
σ		0.0386	0.1121	0.8%	0.0424	0.0745	0.0646	1.1%	0.0008
%RSD		4.7121	40.5896	1.1	1.4597	2.4628	2.1491	1.6	65.0479
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	-0.0012	0.0130	0.0259	0.0173	74.7%	0.0374	0.0913	0.1145
2	16:11:39	-0.0004	0.0200	0.0179	0.0240	74.2%	0.0208	0.1014	0.1040
3	16:12:46	-0.0018	0.0200	0.0279	0.0225	74.5%	0.0167	0.0883	0.0947
x		-0.0011	0.0177	0.0239	0.0212	74.5%	0.0249	0.0937	0.1044
σ		0.0007	0.0041	0.0053	0.0035	0.2%	0.0110	0.0068	0.0099
%RSD		62.2724	22.9492	22.1930	16.4327	0.3	43.9278	7.2857	9.4647
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	0.0837	0.0886	103.5365	103.5536	104.6041	84.4%	0.0073	0.0133
2	16:11:39	0.0961	0.0919	103.8595	103.8162	105.9966	85.2%	0.0111	0.0122
3	16:12:46	0.0961	0.1079	104.8689	104.9529	106.5554	85.2%	0.0148	0.0072
x		0.0920	0.0961	104.0883	104.1076	105.7187	84.9%	0.0111	0.0109
σ		0.0072	0.0103	0.6951	0.7438	1.0049	0.5%	0.0038	0.0032
%RSD		7.7864	10.7338	0.6678	0.7144	0.9505	0.5	34.0766	29.5031
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:10:31	0.3519	0.3560	0.3495	-0.0167	87.8%	9.9561		
2	16:11:39	0.3465	0.3321	0.3383	-0.0162	90.4%	9.9326		
3	16:12:46	0.3510	0.3251	0.3389	-0.0151	90.3%	10.0184		
x		0.3498	0.3377	0.3422	-0.0160	89.5%	9.9690		
σ		0.0029	0.0162	0.0063	0.0008	1.5%	0.0443		
%RSD		0.8232	4.8059	1.8475	4.9305	1.6	0.4447		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	77.5%	-0.0154	24.2072	23.2283	6.6701	26.9111	2.1802	177.9179
2	16:19:08	72.1%	-0.0097	23.7701	23.9831	7.6089	24.9567	1.6924	182.6297
3	16:20:15	69.7%	-0.0014	24.2745	24.0367	8.7408	26.4920	1.7517	182.9494
x		73.1%	-0.0088	24.0839	23.7493	7.6733	26.1200	1.8748	181.1657
σ		4.0%	0.0070	0.2739	0.4521	1.0368	1.0290	0.2662	2.8172
%RSD		5.5	79.7511	1.1371	1.9035	13.5122	3.9394	14.1988	1.5550
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	4.2031	0.7793	1.2330	21.0146	3.3148	1.3054	8.6075	1.6958
2	16:19:08	4.2198	0.7555	1.2759	21.7084	3.1808	1.3120	6.8568	1.9278
3	16:20:15	4.2307	0.7477	1.3361	21.4557	3.1655	1.3154	8.0090	1.9615
x		4.2178	0.7608	1.2817	21.3929	3.2204	1.3110	7.8244	1.8617
σ		0.0139	0.0164	0.0518	0.3512	0.0821	0.0051	0.8898	0.1447
%RSD		0.3301	2.1598	4.0437	1.6415	2.5507	0.3904	11.3725	7.7716
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	1.5106	0.7608	7.9355	11.1259	10.3961	70.2%	0.8309	0.3849
2	16:19:08	1.5315	0.7970	8.3371	10.6993	10.4855	67.1%	0.9562	0.4361
3	16:20:15	1.5514	0.7604	8.1239	11.2164	10.4021	67.5%	0.9502	0.4664
x		1.5312	0.7727	8.1322	11.0139	10.4279	68.3%	0.9124	0.4291
σ		0.0204	0.0210	0.2009	0.2762	0.0500	1.7%	0.0707	0.0412
%RSD		1.3317	2.7224	2.4709	2.5075	0.4791	2.5	7.7458	9.5952
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	-0.8668	0.2334	72.8%	0.6641	0.7174	0.6783	72.1%	-0.0020
2	16:19:08	-0.8357	0.7217	71.4%	0.6788	0.7362	0.7068	69.9%	-0.0022
3	16:20:15	-0.4556	0.4958	69.8%	0.7023	0.7125	0.6966	68.4%	-0.0033
x		-0.7194	0.4836	71.3%	0.6817	0.7220	0.6939	70.2%	-0.0025
σ		0.2289	0.2444	1.5%	0.0193	0.0125	0.0144	1.9%	0.0007
%RSD		31.8248	50.5285	2.1	2.8270	1.7340	2.0796	2.7	27.5590
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	-0.0007	0.0108	0.0038	0.0069	74.1%	-0.0543	-0.0206	-0.0369
2	16:19:08	-0.0023	0.0086	0.0033	0.0037	74.1%	-0.0783	-0.0462	-0.0590
3	16:20:15	-0.0017	0.0065	0.0118	0.0096	72.3%	-0.0805	-0.0598	-0.0579
x		-0.0016	0.0087	0.0063	0.0067	73.5%	-0.0710	-0.0422	-0.0513
σ		0.0008	0.0022	0.0048	0.0030	1.0%	0.0146	0.0199	0.0125
%RSD		52.8224	24.9071	75.9215	44.0969	1.4	20.4940	47.2197	24.3298
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	0.0474	0.0595	94.4707	94.7004	96.0045	82.1%	0.0114	0.0072
2	16:19:08	0.0477	0.0569	94.6487	94.6093	95.2257	83.3%	0.0041	0.0053
3	16:20:15	0.0505	0.0515	95.4212	95.2760	96.9048	83.6%	0.0074	0.0077
x		0.0485	0.0560	94.8469	94.8619	96.0450	83.0%	0.0076	0.0067
σ		0.0017	0.0041	0.5053	0.3615	0.8403	0.8%	0.0036	0.0013
%RSD		3.4573	7.3164	0.5327	0.3810	0.8749	0.9	47.5148	18.7307
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:18:01	0.0854	0.0729	0.0752	-0.0192	86.2%	4.2507		
2	16:19:08	0.0802	0.0778	0.0790	-0.0168	88.1%	4.2470		
3	16:20:15	0.0766	0.0743	0.0718	-0.0180	88.0%	4.2314		
x		0.0807	0.0750	0.0753	-0.0180	87.4%	4.2431		
σ		0.0044	0.0025	0.0036	0.0012	1.0%	0.0102		
%RSD		5.4720	3.3957	4.7332	6.6163	1.2	0.2412		

K1010850-003 11/9/2010 4:23:39 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	74.4%	-0.0126	14.7825	14.3965	2.2006	65.0079	1.3214	456.9771
2	16:24:47	71.1%	-0.0044	14.7549	14.8865	2.3588	71.6828	1.6317	449.6275
3	16:25:54	68.8%	-0.0037	16.5588	15.3038	2.1654	65.5823	1.2540	464.6538
x		71.5%	-0.0069	15.3654	14.8623	2.2416	67.4243	1.4024	457.0861
σ		2.8%	0.0049	1.0336	0.4541	0.1030	3.6991	0.2015	7.5137
%RSD		4.0	71.8382	6.7269	3.0556	4.5956	5.4863	14.3653	1.6438
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	3.9836	0.3201	1.2411	86.8444	0.5265	1.5028	20.8685	1.9704
2	16:24:47	3.8182	0.3211	1.1779	85.0193	0.5014	1.4777	17.9326	1.9106
3	16:25:54	4.0187	0.3450	1.1932	85.3586	0.4756	1.3680	16.5086	2.0629
x		3.9402	0.3287	1.2041	85.7408	0.5012	1.4495	18.4366	1.9813
σ		0.1071	0.0141	0.0330	0.9707	0.0254	0.0717	2.2232	0.0767
%RSD		2.7186	4.2912	2.7379	1.1321	5.0769	4.9434	12.0586	3.8734
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	1.7231	0.9698	13.1668	15.0746	15.0894	68.0%	0.6448	0.5113
2	16:24:47	1.6876	0.9891	13.1455	15.3078	14.9977	66.2%	0.2895	0.8315
3	16:25:54	1.6588	0.9293	12.8961	15.7306	14.9704	64.9%	0.4255	0.6570
x		1.6898	0.9627	13.0695	15.3710	15.0192	66.3%	0.4533	0.6666
σ		0.0322	0.0305	0.1505	0.3325	0.0623	1.5%	0.1793	0.1603
%RSD		1.9077	3.1680	1.1517	2.1633	0.4150	2.3	39.5494	24.0478
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	-1.1505	0.6594	71.6%	1.0181	1.0769	1.0694	69.3%	-0.0017
2	16:24:47	-0.8019	0.1245	71.3%	1.0620	1.0442	1.0638	68.3%	-0.0022
3	16:25:54	-0.3765	0.3653	69.4%	1.0227	1.1945	1.0154	66.8%	-0.0010
x		-0.7763	0.3831	70.8%	1.0343	1.1052	1.0496	68.1%	-0.0016
σ		0.3876	0.2679	1.2%	0.0241	0.0790	0.0297	1.2%	0.0006
%RSD		49.9334	69.9323	1.7	2.3316	7.1518	2.8274	1.8	36.0685
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	-0.0023	0.0124	0.0055	0.0173	72.1%	-0.0350	-0.0173	-0.0248
2	16:24:47	-0.0020	0.0101	0.0150	0.0108	71.5%	-0.0466	-0.0196	-0.0226
3	16:25:54	-0.0017	0.0114	0.0057	0.0156	71.5%	-0.0648	-0.0235	-0.0274
x		-0.0020	0.0113	0.0087	0.0145	71.7%	-0.0488	-0.0201	-0.0249
σ		0.0003	0.0011	0.0054	0.0034	0.3%	0.0150	0.0031	0.0024
%RSD		15.0455	9.9294	62.0917	23.1281	0.5	30.7515	15.6085	9.5870
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	0.0367	0.0311	92.7333	92.3096	93.7470	81.4%	0.0066	0.0060
2	16:24:47	0.0366	0.0308	92.5229	92.4333	93.8456	83.8%	0.0068	0.0086
3	16:25:54	0.0420	0.0347	91.2330	92.9929	93.5661	82.6%	0.0082	0.0079
x		0.0384	0.0322	92.1631	92.5786	93.7196	82.6%	0.0072	0.0075
σ		0.0031	0.0021	0.8123	0.3641	0.1418	1.2%	0.0009	0.0014
%RSD		8.0177	6.6756	0.8814	0.3933	0.1513	1.4	12.3899	18.3618
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:23:39	0.1562	0.1475	0.1543	-0.0159	85.6%	5.2533		
2	16:24:47	0.1585	0.1692	0.1589	-0.0156	86.9%	5.3000		
3	16:25:54	0.1624	0.1593	0.1552	-0.0158	87.8%	5.3271		
x		0.1590	0.1587	0.1561	-0.0158	86.8%	5.2935		
σ		0.0031	0.0109	0.0024	0.0002	1.1%	0.0374		
%RSD		1.9690	6.8503	1.5593	1.0049	1.3	0.7059		

K1010850-004 11/9/2010 4:29:27 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	76.6%	-0.0129	0.3632	0.2428	0.6770	0.4865	0.3989	1.6891
2	16:30:34	71.9%	-0.0222	0.4054	0.1188	0.6487	0.2663	0.4037	1.7082
3	16:31:42	69.8%	-0.0118	0.4881	0.0455	0.6797	-0.3692	0.3681	1.7368
x		72.7%	-0.0156	0.4189	0.1357	0.6685	0.1278	0.3902	1.7114
σ		3.5%	0.0057	0.0636	0.0997	0.0172	0.4443	0.0193	0.0240
%RSD		4.8	36.6065	15.1753	73.5130	2.5679	347.5729	4.9519	1.4022
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	0.0090	0.0453	0.1326	0.0180	-0.0106	0.0030	0.2137	0.5624
2	16:30:34	0.0104	0.0363	0.0828	0.0253	-0.0121	0.0075	0.2459	0.5301
3	16:31:42	0.0180	0.0341	0.0676	0.0139	-0.0108	-0.0035	0.0082	0.6405
x		0.0124	0.0386	0.0943	0.0191	-0.0112	0.0023	0.1559	0.5777
σ		0.0049	0.0059	0.0340	0.0058	0.0008	0.0055	0.1289	0.0568
%RSD		39.1095	15.3912	35.9954	30.2440	7.0674	237.4689	82.7024	9.8246
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	0.0203	0.0197	0.3538	0.4029	0.3499	70.8%	0.0562	-0.0667
2	16:30:34	0.0295	0.0182	0.3445	0.3384	0.3564	68.4%	0.1276	-0.1141
3	16:31:42	0.0256	0.0213	0.3281	0.3517	0.3259	68.2%	-0.0137	-0.0321
x		0.0251	0.0197	0.3421	0.3643	0.3441	69.2%	0.0567	-0.0709
σ		0.0046	0.0015	0.0130	0.0340	0.0160	1.5%	0.0706	0.0412
%RSD		18.2392	7.8525	3.7966	9.3410	4.6586	2.1	124.5105	58.0295
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-1.5728	0.1394	73.0%	-0.0242	-0.0269	-0.0214	74.3%	-0.0026
2	16:30:34	-1.0601	0.3385	69.6%	-0.0261	-0.0077	-0.0264	72.5%	-0.0026
3	16:31:42	-0.8808	-0.0884	70.1%	-0.0291	-0.0261	-0.0275	72.1%	-0.0031
x		-1.1713	0.1298	70.9%	-0.0265	-0.0203	-0.0251	73.0%	-0.0027
σ		0.3592	0.2136	1.8%	0.0025	0.0109	0.0032	1.2%	0.0003
%RSD		30.6645	164.5397	2.6	9.2821	53.5551	12.8635	1.6	10.6509
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-0.0023	0.0017	-0.0043	0.0012	75.8%	-0.0412	0.0082	-0.0016
2	16:30:34	-0.0010	-0.0006	-0.0047	0.0017	74.8%	-0.0598	-0.0071	-0.0232
3	16:31:42	-0.0018	0.0006	-0.0001	0.0005	73.5%	-0.0498	-0.0278	-0.0292
x		-0.0017	0.0006	-0.0030	0.0011	74.7%	-0.0503	-0.0089	-0.0180
σ		0.0007	0.0011	0.0026	0.0006	1.2%	0.0093	0.0181	0.0145
%RSD		40.9256	196.7555	84.7923	54.4443	1.5	18.5787	203.6307	80.8671
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-0.0004	-0.0011	0.3465	0.3309	0.3274	82.8%	-0.0079	-0.0089
2	16:30:34	-0.0001	-0.0002	0.2874	0.3328	0.3419	83.5%	-0.0082	-0.0081
3	16:31:42	0.0019	-0.0006	0.3255	0.3510	0.3384	83.9%	-0.0097	-0.0091
x		0.0005	-0.0006	0.3198	0.3382	0.3359	83.4%	-0.0086	-0.0087
σ		0.0013	0.0004	0.0300	0.0111	0.0075	0.6%	0.0010	0.0005
%RSD		274.6227	65.1310	9.3732	3.2833	2.2468	0.7	11.1439	5.5810
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:29:27	0.0030	-0.0010	0.0031	-0.0178	87.5%	-0.0074		
2	16:30:34	0.0082	0.0049	0.0066	-0.0178	88.5%	-0.0075		
3	16:31:42	0.0083	0.0043	0.0044	-0.0182	89.1%	-0.0098		
x		0.0065	0.0027	0.0047	-0.0180	88.3%	-0.0082		
σ		0.0030	0.0033	0.0018	0.0002	0.8%	0.0013		
%RSD		46.2479	119.2313	37.6843	1.3169	0.9	16.3020		

K1010899-001 11/9/2010 4:34:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	73.5%	-0.0099	51.2944	54.1345	2.4722	113.7170	1.5609	734.7089
2	16:35:39	72.8%	-0.0048	53.7937	53.1920	2.4992	108.7813	1.6117	738.8386
3	16:36:46	73.0%	-0.0098	51.1304	52.8040	2.3389	107.3954	1.8978	738.8359
x		73.1%	-0.0082	52.0728	53.3768	2.4368	109.9646	1.6901	737.4611
σ		0.4%	0.0029	1.4925	0.6842	0.0858	3.3228	0.1816	2.3835
%RSD		0.5	35.9116	2.8662	1.2819	3.5212	3.0217	10.7466	0.3232
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	2.6069	0.8904	3.0916	17.7638	0.2819	1.8679	30.7410	2.4808
2	16:35:39	2.7014	0.9198	2.9886	18.0802	0.2588	2.0689	28.7378	2.5490
3	16:36:46	2.6939	0.8650	2.8454	18.0800	0.2596	1.8577	28.7763	2.8736
x		2.6674	0.8917	2.9752	17.9747	0.2668	1.9315	29.4184	2.6345
σ		0.0525	0.0274	0.1236	0.1826	0.0131	0.1191	1.1456	0.2099
%RSD		1.9691	3.0734	4.1554	1.0160	4.9187	6.1648	3.8941	7.9669
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	4.4326	1.9284	6.9989	22.8769	18.6099	66.6%	0.9576	1.7952
2	16:35:39	4.5232	1.9967	7.0846	23.2007	18.8368	65.3%	0.8536	1.1711
3	16:36:46	4.3906	2.0055	6.8497	22.4072	18.5573	66.0%	0.8345	2.2385
x		4.4488	1.9769	6.9777	22.8283	18.6680	66.0%	0.8819	1.7349
σ		0.0677	0.0422	0.1189	0.3990	0.1486	0.7%	0.0662	0.5363
%RSD		1.5226	2.1347	1.7033	1.7477	0.7958	1.0	7.5091	30.9102
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	-0.1706	1.2290	71.1%	0.2417	0.3065	0.2601	66.6%	-0.0007
2	16:35:39	0.2578	0.1628	72.4%	0.2731	0.2749	0.2920	67.4%	-0.0025
3	16:36:46	-0.6552	0.9317	72.5%	0.2917	0.3112	0.2844	67.8%	-0.0002
x		-0.1894	0.7745	72.0%	0.2688	0.2975	0.2788	67.3%	-0.0011
σ		0.4568	0.5502	0.7%	0.0253	0.0197	0.0167	0.6%	0.0012
%RSD		241.2342	71.0381	1.0	9.4077	6.6292	5.9881	0.9	104.8783
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	0.0022	0.0310	0.0061	0.0229	69.9%	-0.1023	-0.0973	-0.1010
2	16:35:39	-0.0002	0.0317	0.0093	0.0186	71.1%	-0.1460	-0.1077	-0.1032
3	16:36:46	-0.0014	0.0172	0.0137	0.0168	72.1%	-0.1246	-0.1105	-0.1204
x		0.0002	0.0266	0.0097	0.0195	71.0%	-0.1243	-0.1052	-0.1082
σ		0.0018	0.0082	0.0038	0.0031	1.1%	0.0218	0.0069	0.0106
%RSD		1122.1312	30.7937	39.2457	16.1769	1.6	17.5429	6.6077	9.8398
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	0.0523	0.0464	500.0742	505.3300	521.7947	80.8%	0.0100	0.0085
2	16:35:39	0.0604	0.0553	496.6192	505.2785	512.9684	82.7%	0.0093	0.0095
3	16:36:46	0.0473	0.0525	498.6705	502.5107	512.2303	83.1%	0.0119	0.0065
x		0.0533	0.0514	498.4546	504.3731	515.6645	82.2%	0.0104	0.0082
σ		0.0066	0.0046	1.7376	1.6130	5.3217	1.3%	0.0014	0.0016
%RSD		12.4577	8.8883	0.3486	0.3198	1.0320	1.5	13.0162	19.0345
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:34:31	0.2030	0.2020	0.2008	0.0022	83.9%	5.3470		
2	16:35:39	0.1989	0.1903	0.1983	0.0019	86.8%	5.2856		
3	16:36:46	0.2131	0.1848	0.2017	-0.0010	87.7%	5.2669		
x		0.2050	0.1924	0.2003	0.0011	86.1%	5.2998		
σ		0.0073	0.0088	0.0018	0.0018	2.0%	0.0419		
%RSD		3.5743	4.5549	0.8791	165.4755	2.3	0.7913		



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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	83.4%	-0.0095	1.3980	1.2766	1.1637	-3.5076	0.4403	0.2406
2	16:40:47	77.8%	-0.0038	1.2307	0.9246	1.1171	-2.4771	0.2849	0.4654
3	16:41:54	76.3%	-0.0224	0.9439	0.6493	1.1368	-1.6538	0.4159	0.2948
x		79.2%	-0.0119	1.1909	0.9502	1.1392	-2.5462	0.3804	0.3336
σ		3.8%	0.0095	0.2297	0.3145	0.0234	0.9288	0.0835	0.1173
%RSD		4.8	79.9611	19.2859	33.0946	2.0540	36.4790	21.9643	35.1697
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-0.0023	0.0286	0.4043	0.0368	-0.0077	0.0508	0.4265	0.8499
2	16:40:47	0.0097	0.0244	0.2782	0.0437	-0.0120	0.0731	0.0377	0.8125
3	16:41:54	0.0152	0.0403	0.2276	0.0252	-0.0103	0.0806	0.1298	0.7648
x		0.0075	0.0311	0.3034	0.0352	-0.0100	0.0682	0.1980	0.8091
σ		0.0090	0.0082	0.0910	0.0094	0.0022	0.0155	0.2032	0.0427
%RSD		119.0941	26.3834	29.9876	26.5555	21.5906	22.7462	102.6248	5.2761
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	0.1128	0.0997	5.1102	4.3606	4.9310	74.5%	-0.1586	0.0506
2	16:40:47	0.1028	0.0886	4.7825	4.8076	4.7276	73.4%	0.0249	0.0572
3	16:41:54	0.0980	0.0952	4.9892	4.9028	4.9912	71.6%	-0.1417	0.0112
x		0.1045	0.0945	4.9606	4.6904	4.8833	73.2%	-0.0918	0.0397
σ		0.0075	0.0056	0.1657	0.2895	0.1381	1.5%	0.1014	0.0249
%RSD		7.1944	5.9085	3.3402	6.1718	2.8283	2.0	110.4784	62.6893
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-1.0126	-0.6863	75.7%	-0.0317	-0.0250	-0.0304	77.8%	-0.0032
2	16:40:47	-0.8377	0.0641	73.2%	-0.0309	-0.0270	-0.0267	74.5%	-0.0021
3	16:41:54	-0.9361	-0.5324	72.2%	-0.0298	-0.0284	-0.0306	74.9%	-0.0026
x		-0.9288	-0.3849	73.7%	-0.0308	-0.0268	-0.0292	75.7%	-0.0026
σ		0.0877	0.3964	1.8%	0.0009	0.0017	0.0022	1.8%	0.0005
%RSD		9.4404	102.9851	2.4	2.9801	6.3929	7.5900	2.4	20.4440
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-0.0024	0.0016	0.0050	0.0023	77.2%	-0.0454	-0.0108	-0.0075
2	16:40:47	-0.0013	0.0016	-0.0006	0.0020	76.7%	-0.0201	-0.0107	-0.0209
3	16:41:54	-0.0023	0.0005	0.0005	0.0007	76.4%	-0.0607	-0.0126	-0.0123
x		-0.0020	0.0013	0.0016	0.0017	76.8%	-0.0420	-0.0113	-0.0136
σ		0.0006	0.0006	0.0030	0.0009	0.4%	0.0205	0.0011	0.0068
%RSD		30.9714	49.3574	182.1079	52.9574	0.6	48.7855	9.2774	50.3261
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	0.0011	-0.0011	0.1712	0.1798	0.1653	84.1%	-0.0082	-0.0070
2	16:40:47	0.0014	-0.0003	0.2591	0.2533	0.2454	85.4%	-0.0064	-0.0074
3	16:41:54	-0.0004	-0.0011	0.1491	0.1967	0.1819	83.5%	-0.0094	-0.0083
x		0.0007	-0.0008	0.1932	0.2099	0.1975	84.3%	-0.0080	-0.0076
σ		0.0010	0.0005	0.0582	0.0385	0.0423	1.0%	0.0015	0.0006
%RSD		142.7502	56.5888	30.1172	18.3335	21.3982	1.2	19.0418	8.2904
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:39:39	-0.0003	-0.0023	-0.0018	-0.0193	87.6%	-0.0077		
2	16:40:47	0.0005	-0.0022	-0.0009	-0.0170	88.4%	-0.0061		
3	16:41:54	-0.0003	-0.0006	-0.0012	-0.0185	89.4%	-0.0084		
x		-0.0000	-0.0017	-0.0013	-0.0183	88.5%	-0.0074		
σ		0.0004	0.0010	0.0005	0.0012	0.9%	0.0012		
%RSD		1209.2988	55.4729	37.0712	6.3454	1.0	15.6482		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	79.3%	26.5351	26.3548	24.9900	24.0963	25.6945	23.9820	23.9117
2	16:45:54	75.4%	26.3883	27.7193	25.5214	23.8406	19.8513	24.4880	24.7340
3	16:47:02	73.1%	27.1114	27.8198	27.4602	24.4921	24.6232	23.3001	25.0046
x		75.9%	26.6783	27.2980	25.9905	24.1430	23.3897	23.9233	24.5501
σ		3.1%	0.3822	0.8183	1.3002	0.3282	3.1108	0.5961	0.5692
%RSD		4.1	1.4327	2.9977	5.0026	1.3595	13.2998	2.4918	2.3184
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	24.1649	24.5569	25.2706	24.8707	24.8217	25.3760	26.1004	25.1589
2	16:45:54	24.2810	24.6374	24.7757	24.9835	24.8391	24.8987	23.5191	25.4990
3	16:47:02	24.3156	24.7699	25.5692	25.2278	24.9609	25.5043	26.8370	25.5286
x		24.2538	24.6547	25.2052	25.0273	24.8739	25.2597	25.4855	25.3955
σ		0.0790	0.1076	0.4008	0.1825	0.0758	0.3191	1.7423	0.2055
%RSD		0.3256	0.4363	1.5902	0.7293	0.3049	1.2633	6.8365	0.8091
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.4140	25.5579	25.8278	26.4164	26.5663	73.0%	25.4310	26.7902
2	16:45:54	25.5033	25.4427	26.4773	27.2530	26.2475	70.2%	25.7465	24.5364
3	16:47:02	25.2108	25.6170	26.2254	25.6351	25.9989	69.8%	25.7478	25.6314
x		25.3760	25.5392	26.1768	26.4348	26.2709	71.0%	25.6418	25.6527
σ		0.1499	0.0887	0.3275	0.8091	0.2844	1.7%	0.1825	1.1271
%RSD		0.5906	0.3472	1.2509	3.0606	1.0826	2.4	0.7118	4.3936
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	24.7696	25.3446	73.4%	25.9819	26.0375	25.6546	76.1%	25.6298
2	16:45:54	25.1316	26.1017	73.0%	26.1722	26.7828	26.2336	73.6%	25.9849
3	16:47:02	25.7720	25.4551	70.8%	26.6749	26.4901	26.2652	73.5%	25.9428
x		25.2244	25.6338	72.4%	26.2763	26.4368	26.0511	74.4%	25.8525
σ		0.5076	0.4090	1.4%	0.3580	0.3755	0.3438	1.5%	0.1940
%RSD		2.0124	1.5955	1.9	1.3625	1.4203	1.3196	2.0	0.7506
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.7288	26.5819	25.9044	25.6738	77.7%	25.3863	25.5056	25.4935
2	16:45:54	25.8796	26.0111	26.1885	26.0309	77.5%	25.4993	25.5847	25.4969
3	16:47:02	25.6227	26.0699	26.3000	26.0698	77.1%	25.6526	25.7512	25.5239
x		25.7437	26.2210	26.1309	25.9248	77.4%	25.5127	25.6138	25.5048
σ		0.1291	0.3139	0.2040	0.2183	0.3%	0.1337	0.1253	0.0167
%RSD		0.5016	1.1973	0.7807	0.8419	0.4	0.5239	0.4894	0.0653
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.8214	25.6610	24.6716	25.0048	25.0979	84.1%	25.2495	25.0545
2	16:45:54	25.9953	25.9488	25.3404	25.3599	25.1004	84.4%	25.4170	25.4505
3	16:47:02	26.0770	25.9643	25.0652	25.3568	25.1375	84.5%	25.5372	25.5904
x		25.9646	25.8580	25.0257	25.2405	25.1119	84.3%	25.4013	25.3651
σ		0.1306	0.1708	0.3361	0.2041	0.0222	0.2%	0.1445	0.2780
%RSD		0.5029	0.6607	1.3432	0.8086	0.0884	0.2	0.5688	1.0959
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:44:47	25.2612	25.2293	25.2750	25.2861	88.9%	25.5202		
2	16:45:54	25.3870	25.5816	25.4929	25.4464	90.3%	25.7001		
3	16:47:02	25.6058	25.7073	25.6279	25.5999	90.8%	25.7469		
x		25.4180	25.5061	25.4652	25.4441	90.0%	25.6557		
σ		0.1744	0.2478	0.1781	0.1569	1.0%	0.1197		
%RSD		0.6860	0.9715	0.6992	0.6166	1.1	0.4664		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	76.0%	-0.0128	0.0201	0.0364	-0.0061	6.8444	-0.0221	-0.0056
2	16:56:22	72.1%	-0.0071	0.5272	0.1064	0.0082	-4.1363	-0.0162	0.0122
3	16:57:29	70.6%	-0.0094	-0.0501	-0.0195	-0.0083	1.7793	0.1157	-0.0025
X		72.9%	-0.0098	0.1657	0.0411	-0.0021	1.4958	0.0258	0.0014
σ		2.8%	0.0029	0.3150	0.0631	0.0090	5.4959	0.0779	0.0095
%RSD		3.8	29.2179	190.0656	153.5453	437.3939	367.4204	302.3616	682.4866
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.0347	-0.0381	0.1325	-0.0014	-0.0107	-0.0056	0.3956	0.5071
2	16:56:22	-0.0185	-0.0473	0.0810	0.0006	-0.0146	-0.0128	-0.0226	0.4709
3	16:57:29	-0.0255	-0.0742	0.0736	0.0011	-0.0094	-0.0013	0.1894	0.5324
X		-0.0262	-0.0532	0.0957	0.0001	-0.0116	-0.0066	0.1875	0.5035
σ		0.0081	0.0188	0.0321	0.0014	0.0027	0.0058	0.2091	0.0309
%RSD		30.9626	35.2691	33.5589	1279.2801	23.5407	88.4838	111.5311	6.1352
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	0.0184	0.0007	-0.0140	0.0168	0.0046	68.7%	0.0127	-0.0601
2	16:56:22	0.0180	0.0042	0.0166	-0.0170	0.0235	66.5%	0.0368	-0.0824
3	16:57:29	0.0220	0.0029	0.0187	-0.0051	0.0086	66.2%	0.0316	0.1428
X		0.0195	0.0026	0.0071	-0.0018	0.0122	67.1%	0.0270	0.0001
σ		0.0022	0.0018	0.0183	0.0171	0.0100	1.4%	0.0126	0.1241
%RSD		11.3482	69.2818	257.2641	962.9619	81.5421	2.1	46.7570	127082.0500
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.9332	-0.0111	69.8%	0.0122	0.0062	0.0158	72.0%	-0.0015
2	16:56:22	-0.4662	0.0474	68.2%	0.0291	0.0193	0.0183	71.8%	-0.0012
3	16:57:29	-0.8423	0.2065	68.5%	0.0232	0.0398	0.0257	71.3%	-0.0020
X		-0.7473	0.0810	68.8%	0.0215	0.0218	0.0199	71.7%	-0.0015
σ		0.2476	0.1126	0.9%	0.0086	0.0169	0.0052	0.4%	0.0004
%RSD		33.1372	139.0498	1.3	39.9463	77.7720	25.9755	0.6	25.5100
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.0001	0.0006	-0.0012	-0.0023	73.2%	-0.0415	-0.0180	-0.0385
2	16:56:22	0.0026	0.0017	-0.0035	0.0023	73.8%	-0.0567	-0.0461	-0.0248
3	16:57:29	0.0030	0.0018	-0.0090	-0.0022	71.7%	-0.0658	-0.0363	-0.0377
X		0.0019	0.0014	-0.0045	-0.0007	72.9%	-0.0547	-0.0335	-0.0337
σ		0.0017	0.0007	0.0040	0.0026	1.0%	0.0122	0.0143	0.0077
%RSD		92.0454	49.1977	88.5512	372.9766	1.4	22.4039	42.7387	22.8523
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	0.0036	0.0007	-0.0093	-0.0068	-0.0077	80.1%	-0.0090	-0.0081
2	16:56:22	0.0025	0.0023	-0.0051	0.0004	-0.0018	81.6%	-0.0058	-0.0075
3	16:57:29	0.0013	0.0020	0.0012	-0.0058	-0.0040	81.6%	-0.0091	-0.0055
X		0.0025	0.0016	-0.0044	-0.0041	-0.0045	81.1%	-0.0080	-0.0070
σ		0.0011	0.0009	0.0053	0.0039	0.0030	0.8%	0.0019	0.0013
%RSD		45.6502	52.9067	119.8593	96.4616	66.9599	1.0	23.8972	19.0061
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:55:14	-0.0059	-0.0082	-0.0073	-0.0176	84.9%	-0.0082		
2	16:56:22	-0.0063	-0.0046	-0.0053	-0.0140	85.9%	-0.0061		
3	16:57:29	-0.0063	-0.0084	-0.0066	-0.0156	85.9%	-0.0073		
X		-0.0062	-0.0071	-0.0064	-0.0157	85.6%	-0.0072		
σ		0.0002	0.0021	0.0010	0.0018	0.6%	0.0011		
%RSD		3.4187	29.6737	15.6846	11.7359	0.7	14.6602		

November 12, 2010

Analytical Report for Service Request No: K1010850

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglur Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on October 01, 2010. For your reference, these analyses have been assigned our service request number K1010850.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [MShelton@caslab.com](mailto:MShelton@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Mike Shelton  
Project Chemist

MS/ln

Page 1 of 404

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc.**  
**Kelso, WA**  
**State Certifications, Accreditations, and Licenses**

<b>Program</b>	<b>Number</b>
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



## **Case Narrative**



COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent Service Request No.: K1010850  
Project: Hegler Kronquist Date Received: 10/1/10  
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three water samples and a equipment blank were received for analysis at Columbia Analytical Services on 10/1/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

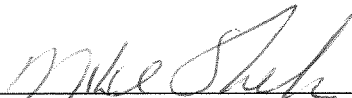
No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

**Matrix Spike Recovery Exceptions:**

The control criteria for matrix spike recovery of Calcium for the Batch QC sample were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by



Date

11/12/10

## **Chain of Custody**

PROJECT NAME	PROJECT NUMBER	PROJECT MANAGER	COMPANY ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX #	SAMPLER'S SIGNATURE	SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS		REMARKS
														625	8270	
Hesler Kravest	0907194.000.0001	Melissa Klean	15375 SE 30th Pl	Suite 250	Bellevue, WA 98007	mklean@exponent.com	(425) 519-8774	Kevin Knesel, ARCADIS	MMW-2	9/30/10	1035	W	S	5		SEMIVOLATILE ORGANICS BY GC/MS
									MMW-1	9/30/10	1215	W	S	5		VOLATILE ORGANICS
									MMW-4	9/30/10	1405	W	S	5		HYDROCARBONS (*see below)
									Equipment Blank	9/30/10	1445	W	S	5		FUEL FINGERPRINT (FIQ)

**REPORT REQUIREMENTS**

I. Routine Report: Method Blank, Surrogate, as required

II. Report Dup., MS, MSD as required

III. Data Validation Report (includes all raw data)

IV. CLP Deliverable Report

V. EDD

**INVOICE INFORMATION**

P.O. # AS

Bill To: AS

**TURNAROUND REQUIREMENTS**

24 hr. \_\_\_\_\_ 48 hr. \_\_\_\_\_

5 Day \_\_\_\_\_

Standard (10-15 working days)

Provide FAX Results \_\_\_\_\_

**SPECIAL INSTRUCTIONS/COMMENTS:**

Bar Code - TO24933

**RELINQUISHED BY:** Signature: Kevin Knesel Date/Time: 9/30/10 1530 Firm: ARCADIS

**RECEIVED BY:** Signature: [Redacted] Date/Time: \_\_\_\_\_ Firm: \_\_\_\_\_

Columbia Analytical Services, Inc.  
Cooler Receipt and Preservation Form

PC MJ

Client / Project: Arcadis Service Request K10 10850

Received: 10-1-10 Opened: 10-1-10 By: Brad

1. Samples were received via? Mail  Fed Ex UPS  DHL  PDX  Courier  Hand Delivered
2. Samples were received in: (circle) Cooler Box  Envelope  Other  NA
3. Were custody seals on coolers? NA  Y  N  If yes, how many and where? 1 front
4. If present, were custody seals intact?  Y  N  If present, were they signed and dated?  Y  N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>4.9</u>	<u>5.3</u>	<u>305</u>	<u>NA</u>			<u>X</u>

5. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other \_\_\_\_\_
6. Were custody papers properly filled out (ink, signed, etc.)? NA  Y  N
7. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA  Y  N
8. Were all sample labels complete (i.e analysis, preservation, etc.)? NA  Y  N
9. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA  Y  N
10. Were appropriate bottles/containers and volumes received for the tests indicated? NA  Y  N
11. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below. NA  Y  N
12. Were VOA vials received without headspace? Indicate in the table below.  NA  Y  N
13. Was C12/Res negative?  NA  Y  N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **General Chemistry Parameters**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglär Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : 09/30/10  
Date Received : 10/01/10

Chloride

Analysis Method : 300.0  
Test Notes :

Units : mg/L

Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	5.0	0.8	25	10/07/10 13:11	155	
MW-1	K1010850-002	4.0	0.6	20	10/07/10 13:22	77.2	
MW-4	K1010850-003	5.0	0.8	25	10/07/10 13:34	175	
Equipment Blank	K1010850-004	0.20	0.03	1	10/07/10 01:04	ND	
Method Blank	K1010850-MB	0.20	0.03	1	10/06/10 15:19	ND	
Method Blank	K1010850-MB	0.20	0.03	1	10/07/10 04:19	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Chloride	300.0	0.40	2.46	2.52	2.49	2	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Chloride	300.0	0.40	4.00	2.46	6.34	97	80-120	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011079-007MS K1011079-007DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	0.40	4.00	4.00	2.46	6.34	6.52	97	102	80-120	3	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Chloride	NONE	300.0	5.00	4.93	99	90-110	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010850-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	NONE	300.0	5.00	4.96	99	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Komquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.74	95
CCV2 Result	10/6/2010	5.00	4.75	95
CCV3 Result	10/6/2010	5.00	4.78	96
CCV4 Result	10/6/2010	5.00	4.80	96
CCV5 Result	10/6/2010	5.00	4.74	95
CCV1 Result	10/7/2010	5.00	4.80	96
CCV2 Result	10/7/2010	5.00	4.85	97
CCV3 Result	10/7/2010	5.00	4.81	96
CCV4 Result	10/7/2010	5.00	4.82	96
CCV5 Result	10/7/2010	5.00	4.79	96
CCV6 Result	10/7/2010	5.00	4.75	95
CCV6 Result	10/7/2010	5.00	4.77	95
CCV7 Result	10/7/2010	5.00	4.77	95
CCV7 Result	10/7/2010	5.00	4.75	95
CCV8 Result	10/7/2010	5.00	4.80	96
CCV8 Result	10/8/2010	5.00	4.78	96
CCV9 Result	10/8/2010	5.00	4.77	95

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB1 Result	10/7/2010	0.20	ND
CCB2 Result	10/7/2010	0.20	ND
CCB3 Result	10/7/2010	0.20	ND
CCB4 Result	10/7/2010	0.20	ND
CCB5 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND
CCB8 Result	10/8/2010	0.20	ND
CCB9 Result	10/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Fluoride

Analysis Method 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	0.40	0.01	2	10/07/10 00:30	0.24	J
MW-1	K1010850-002	0.40	0.01	2	10/07/10 00:41	0.38	J
MW-4	K1010850-003	0.40	0.01	2	10/07/10 00:53	0.30	J
Equipment Blank	K1010850-004	0.20	0.01	1	10/07/10 01:04	ND	
Method Blank	K1010850-MB	0.20	0.01	1	10/06/10 15:19	ND	
Method Blank	K1010850-MB	0.20	0.01	1	10/07/10 04:19	ND	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010966-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Fluoride	300.0	0.40	0.94	0.94	0.94	<1	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010966-002MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Fluoride	300.0	0.40	4.00	0.94	5.59	116	80-120	

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**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010966-002MS K1010966-002DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Fluoride	NONE	300.0	0.40	4.00	4.00	0.94	5.59	5.57	116	116	80-120	<1	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Fluoride	NONE	300.0	11.0	11.9	108	90-110	

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# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	5.29	106
CCV2 Result	10/6/2010	5.00	5.32	106
CCV3 Result	10/6/2010	5.00	5.27	105
CCV4 Result	10/6/2010	5.00	5.34	107
CCV5 Result	10/6/2010	5.00	5.25	105
CCV6 Result	10/7/2010	5.00	5.29	106
CCV7 Result	10/7/2010	5.00	5.25	105
CCV8 Result	10/7/2010	5.00	5.28	106

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Komquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Sulfate

Analysis Method 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	5.0	0.3	25	10/07/10 13:11	30.7	
MW-1	K1010850-002	4.0	0.2	20	10/07/10 13:22	30.4	
MW-4	K1010850-003	5.0	0.3	25	10/07/10 13:34	45.6	
Equipment Blank	K1010850-004	0.20	0.01	1	10/07/10 01:04	ND	
Method Blank	K1010850-MB	0.20	0.01	1	10/06/10 15:19	ND	
Method Blank	K1010850-MB	0.20	0.01	1	10/07/10 04:19	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011079-007DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	300.0	0.40	3.18	3.17	3.18	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery	
Sulfate	300.0	0.40	4.00	3.18	7.27	102	80-120	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011079-007MS K1011079-007DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	NONE	300.0	0.40	4.00	4.00	3.18	7.27	7.31	102	103	80-120	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010850-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	NONE	300.0	5.00	5.07	101	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010850-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	NONE	300.0	5.00	4.99	100	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.84	97
CCV2 Result	10/6/2010	5.00	4.87	97
CCV3 Result	10/6/2010	5.00	4.83	97
CCV4 Result	10/6/2010	5.00	4.88	98
CCV5 Result	10/6/2010	5.00	4.83	97
CCV1 Result	10/7/2010	5.00	4.89	98
CCV2 Result	10/7/2010	5.00	4.94	99
CCV3 Result	10/7/2010	5.00	4.90	98
CCV4 Result	10/7/2010	5.00	4.91	98
CCV5 Result	10/7/2010	5.00	4.91	98
CCV6 Result	10/7/2010	5.00	4.86	97
CCV6 Result	10/7/2010	5.00	4.89	98
CCV7 Result	10/7/2010	5.00	4.83	97
CCV7 Result	10/7/2010	5.00	4.86	97
CCV8 Result	10/7/2010	5.00	4.84	97
CCV8 Result	10/8/2010	5.00	4.87	97
CCV9 Result	10/8/2010	5.00	4.82	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB1 Result	10/7/2010	0.20	ND
CCB2 Result	10/7/2010	0.20	ND
CCB3 Result	10/7/2010	0.20	ND
CCB4 Result	10/7/2010	0.20	ND
CCB5 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND
CCB8 Result	10/8/2010	0.20	ND
CCB9 Result	10/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Ammonia as Nitrogen, Dissolved

Analysis Method 350.1  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	0.050	0.020	1	10/13/10 10:10	ND	
MW-1	K1010850-002	0.050	0.020	1	10/13/10 10:10	ND	
MW-4	K1010850-003	0.050	0.020	1	10/13/10 10:10	0.432	
Equipment Blank	K1010850-004	0.050	0.020	1	10/13/10 10:10	ND	
Method Blank	K1010850-MB	0.050	0.020	1	10/13/10 10:10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010795-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Ammonia as Nitrogen, Dissolved	350.1	0.050	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010795-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Ammonia as Nitrogen, Dissolved	350.1	0.050	2.00	ND	2.04	102	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L  
 Lab Code : K1010795-001MS K1010795-001DMS Basis : NA  
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Ammonia as Nitrogen, Dissolved	NONE	350.1	0.050	2.00	2.00	ND	2.04	2.04	102	102	90-110	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen, Dissolved	NONE	350.1	14.3	14.6	102	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/13/2010	2.00	2.02	101
CCV2 Result	10/13/2010	2.00	2.02	101
CCV3 Result	10/13/2010	2.00	2.01	101
CCV4 Result	10/13/2010	2.00	2.01	101

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/13/2010	0.050	ND
CCB2 Result	10/13/2010	0.050	ND
CCB3 Result	10/13/2010	0.050	ND
CCB4 Result	10/13/2010	0.050	ND

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Nitrate+Nitrite as Nitrogen

Analysis Method 353.2  
 Test Notes :

Units : mg/L  
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	0.25	0.05	5	10/06/10 11:12	8.97	
MW-1	K1010850-002	0.50	0.09	10	10/06/10 11:12	17.7	
MW-4	K1010850-003	0.50	0.09	10	10/06/10 11:12	42.0	
Equipment Blank	K1010850-004	0.050	0.009	1	10/06/10 11:12	0.045	J
Method Blank	K1010850-MB	0.050	0.009	1	10/06/10 11:12	0.024	J
Method Blank	K1010850-MB	0.050	0.009	1	10/06/10 11:12	0.029	J

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MW-2  
**Lab Code :** K1010850-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Nitrate+Nitrite as Nitrogen	353.2	0.25	8.97	8.94	8.96	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MW-2  
**Lab Code :** K1010850-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrate+Nitrite as Nitrogen	353.2	0.50	20.0	8.97	28.4	97	86-117	

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**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** MW-2 Units : mg/L  
**Lab Code :** K1010850-001MS K1010850-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate+Nitrite as Nitrogen	NONE	353.2	0.50	20.0	20.0	8.97	28.4	28.4	97	97	86-117	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery		Result Notes
						Acceptance Limits		
Nitrate+Nitrite as Nitrogen	NONE	353.2	14.8	14.1	95	88-110		
Nitrate+Nitrite as Nitrogen	NONE	353.2	14.8	14.0	95	88-110		

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	2.00	1.92	96
CCV2 Result	10/6/2010	2.00	1.92	96
CCV3 Result	10/6/2010	2.00	1.92	96
CCV4 Result	10/6/2010	2.00	1.91	96
CCV5 Result	10/6/2010	2.00	1.93	97
CCV6 Result	10/6/2010	2.00	1.92	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Komquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.050	ND
CCB2 Result	10/6/2010	0.050	ND
CCB3 Result	10/6/2010	0.050	ND
CCB4 Result	10/6/2010	0.050	ND
CCB5 Result	10/6/2010	0.050	ND
CCB6 Result	10/6/2010	0.050	ND

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Nitrite as Nitrogen

Analysis Method 353.2  
 Test Notes :

Units : mg/L  
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	0.050	0.005	1	10/01/10 13:10	0.026	J
MW-1	K1010850-002	0.050	0.005	1	10/01/10 13:10	ND	
MW-4	K1010850-003	0.050	0.005	1	10/01/10 13:10	ND	
Equipment Blank	K1010850-004	0.050	0.005	1	10/01/10 13:10	ND	
Method Blank	K1010850-MB	0.050	0.005	1	10/01/10 13:10	ND	

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/01/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** MW-2  
**Lab Code :** K1010850-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Nitrite as Nitrogen	353.2	0.050	0.026	0.024	0.025	8	J

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**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/01/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MW-2  
**Lab Code :** K1010850-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	353.2	0.050	2.00	0.026	2.04	101	90-110	

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**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/01/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : MW-2 Units : mg/L  
 Lab Code : K1010850-001MS K1010850-001DMS Basis : NA  
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	0.026	2.04	2.03	101	100	90-110	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/01/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	NONE	353.2	4.00	3.99	100	90-110	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/1/2010	2.00	1.99	100
CCV2 Result	10/1/2010	2.00	2.01	101
CCV3 Result	10/1/2010	2.00	2.00	100



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kornquist

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/1/2010	0.050	ND
CCB2 Result	10/1/2010	0.050	ND
CCB3 Result	10/1/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Nitrate as Nitrogen

Analysis Method 353.3  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	0.25	0.05	5	10/06/10	8.97	
MW-1	K1010850-002	0.50	0.09	10	10/06/10	17.7	
MW-4	K1010850-003	0.50	0.09	10	10/06/10	42.0	
Equipment Blank	K1010850-004	0.050	0.009	1	10/06/10	0.045	J

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Alkalinity as CaCO<sub>3</sub>, Total

Analysis Method SM 2320 B  
 Test Notes :

Units : mg/L  
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	9.0	3.0	1	10/04/10 01:10	285	
MW-1	K1010850-002	9.0	3.0	1	10/04/10 01:10	197	
MW-4	K1010850-003	9.0	3.0	1	10/04/10 01:10	226	
Equipment Blank	K1010850-004	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/04/10 01:10	6.0	J

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/04/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010675-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	191	197	194	3	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010727-003DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	19.0	16.5	17.8	14	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/04/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Alkalinity as CaCO3, Total	NONE	SM 2320 B	97.4	102	105	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Alkalinity as CaCO <sub>3</sub> , Total	NONE	SM 2320 B	97.4	94.0	97	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : 09/30/10  
Date Received : 10/01/10

Bicarbonate as CaCO<sub>3</sub>

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	9.0	3.0	1	10/04/10 01:10	285	
MW-1	K1010850-002	9.0	3.0	1	10/04/10 01:10	197	
MW-4	K1010850-003	9.0	3.0	1	10/04/10 01:10	226	
Equipment Blank	K1010850-004	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/04/10 01:10	6.0	J

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kornquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010850  
Date Collected : 09/30/10  
Date Received : 10/01/10

Carbonate as CaCO3

Analysis Method SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	9.0	3.0	1	10/04/10 01:10	ND	
MW-1	K1010850-002	9.0	3.0	1	10/04/10 01:10	ND	
MW-4	K1010850-003	9.0	3.0	1	10/04/10 01:10	ND	
Equipment Blank	K1010850-004	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/04/10 01:10	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/05/10 08:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Hydroxide as CaCO3

**Analysis Method :** SM 2320 B  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Sample Name</b>	<b>Lab Code</b>	<b>MRL</b>	<b>MDL</b>	<b>Dilution Factor</b>	<b>Date/Time Analyzed</b>	<b>Result</b>	<b>Result Notes</b>
MW-2	K1010850-001	9.0	3.0	1	10/04/10 01:10	ND	
MW-1	K1010850-002	9.0	3.0	1	10/04/10 01:10	ND	
MW-4	K1010850-003	9.0	3.0	1	10/04/10 01:10	ND	
Equipment Blank	K1010850-004	9.0	3.0	1	10/05/10 08:00	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/04/10 01:10	ND	
Method Blank	K1010850-MB	9.0	3.0	1	10/05/10 08:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 09/30/10  
**Date Received :** 10/01/10

Solids, Total Dissolved

Analysis Method SM 2540 C  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-2	K1010850-001	14	14	1	10/05/10 06:00	657	
MW-1	K1010850-002	14	14	1	10/05/10 06:00	489	
MW-4	K1010850-003	14	14	1	10/05/10 06:00	883	
Equipment Blank	K1010850-004	5.0	5.0	1	10/05/10 06:00	31.0	
Method Blank	K1010850-MB	5.0	5.0	1	10/05/10 06:00	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** 9/30/2010  
**Date Received :** 10/1/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** MW-4  
**Lab Code :** K1010850-003DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Solids, Total Dissolved	SM 2540 C	14	883	873	878	1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kornquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010850  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Laboratory Control Sample Summary  
 Inorganic Parameters

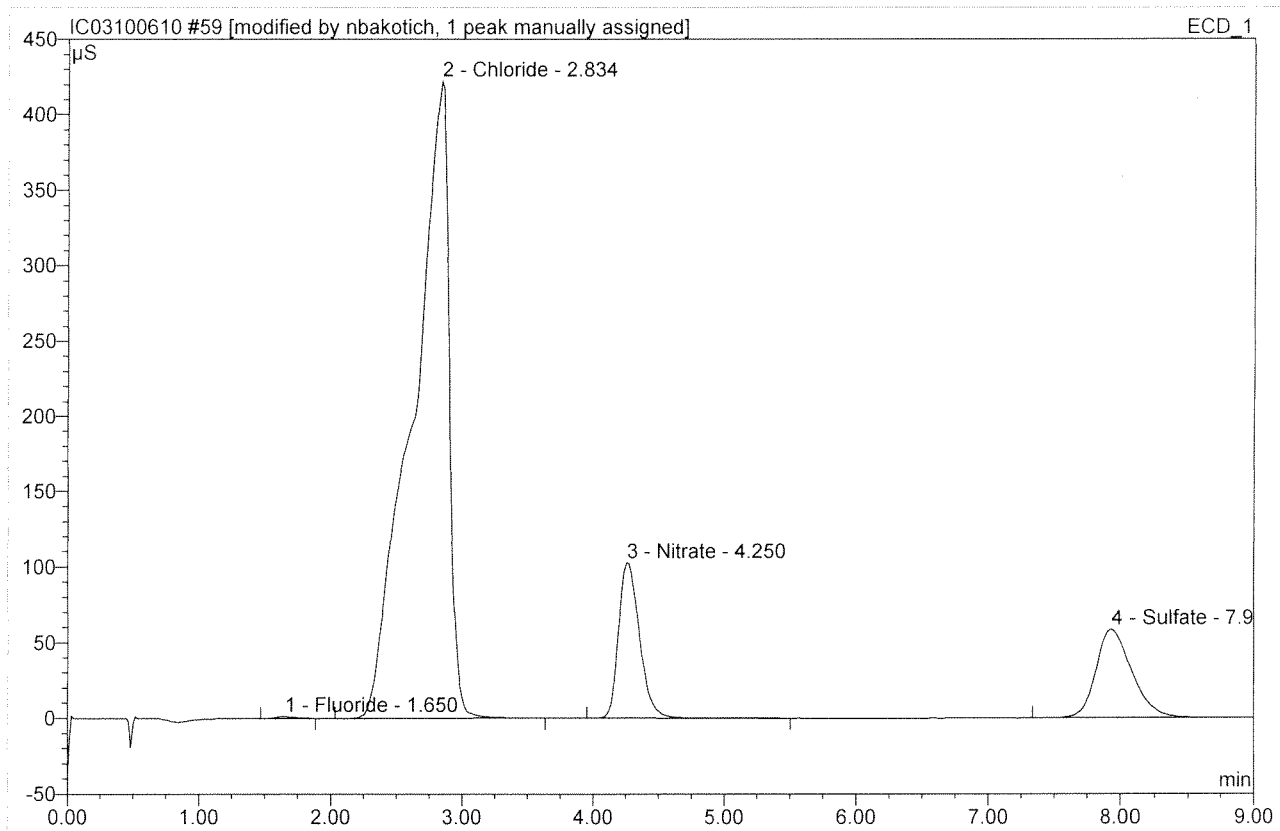
**Sample Name :** Lab Control Sample  
**Lab Code :** K1010850-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Solids, Total Dissolved	NONE	SM 2540 C	1090	1100	101	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

<b>59 K1010850-001</b>			
Sample Name:	<b>K1010850-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>58</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:30</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	1.184	0.226	0.13	0.242	BMB*
2	2.83	Chloride	422.454	133.601	78.10	172.135	BMB^A
3	4.25	Nitrate	102.773	18.985	11.10	10.172	BMB*
4	7.93	Sulfate	58.577	18.245	10.67	36.699	BMB
<b>Total:</b>			584.988	171.058	100.00	219.247	

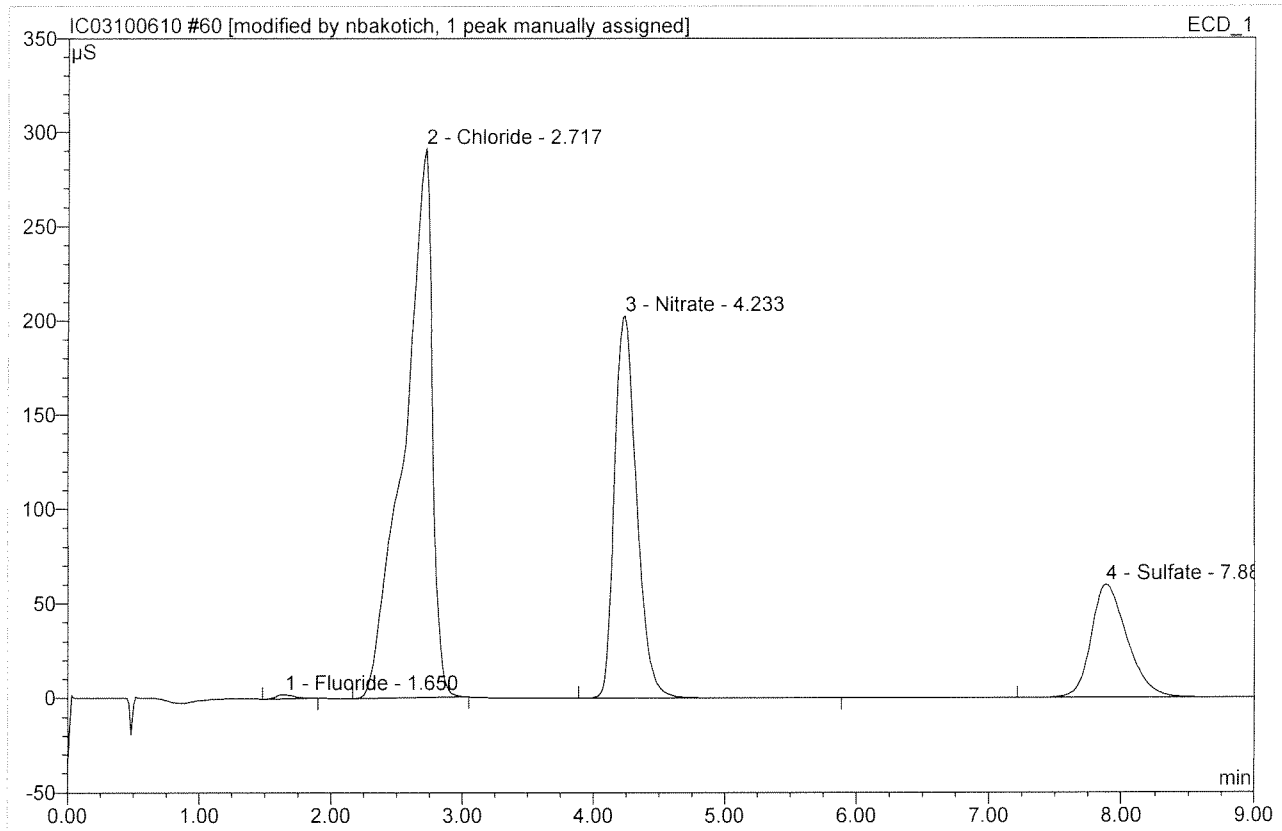
After Initials nlb

OCT 07 2010

*Handwritten signature*

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

<b>60 K1010850-002</b>			
Sample Name:	<b>K1010850-002</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>59</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:41</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	2.197	0.354	0.27	0.379	BMB*
2	2.72	Chloride	290.996	71.200	54.85	91.735	BMB*^
3	4.23	Nitrate	202.635	39.464	30.40	21.143	BMB*
4	7.88	Sulfate	59.940	18.781	14.47	37.775	BMB
<b>Total:</b>			555.768	129.798	100.00	151.033	

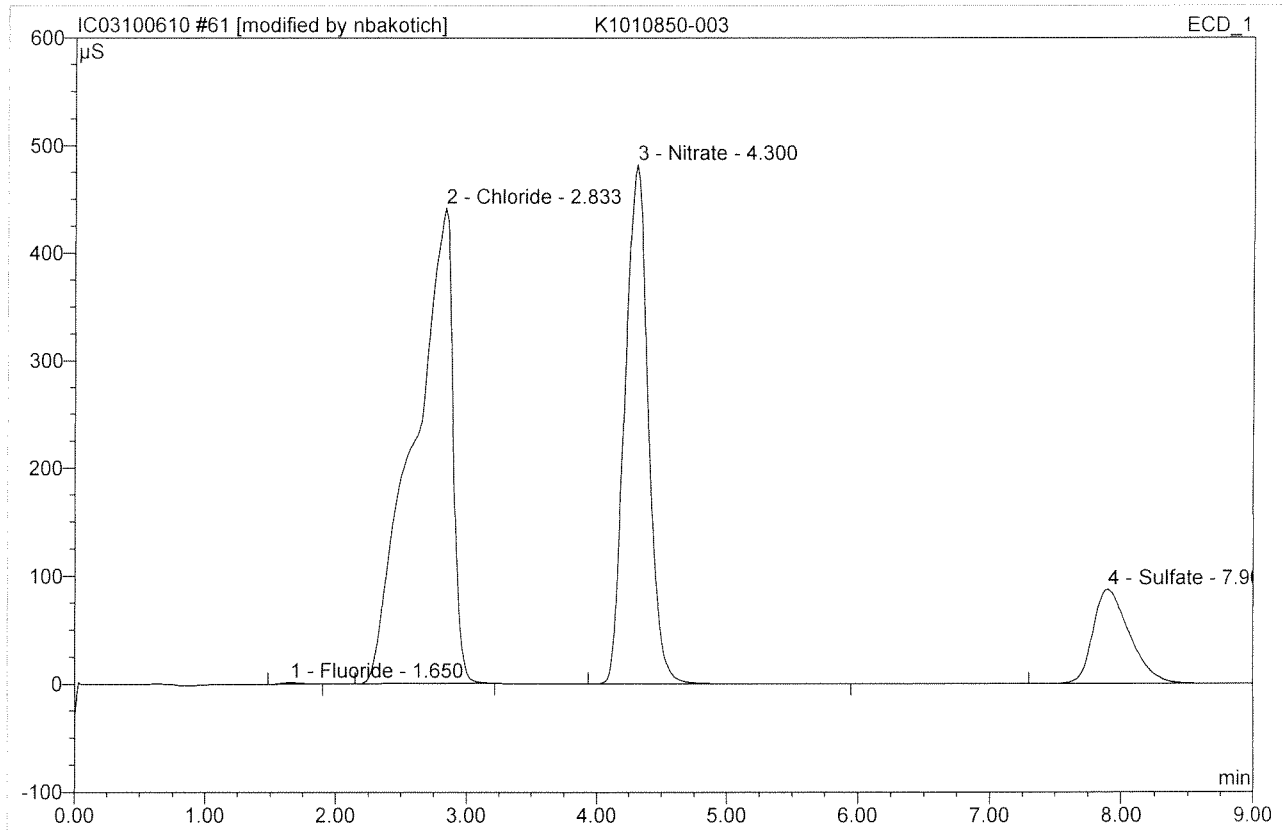
After Initials nb

*HC*  
*10/7/10*

OCT 07 2010

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

<b>61 K1010850-003</b>			
Sample Name:	<b>K1010850-003</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>60</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:53</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	1.491	0.279	0.10	0.298	BMB*
2	2.83	Chloride	441.410	151.761	54.21	195.532	BMB*
3	4.30	Nitrate	482.164	99.667	35.60	53.398	BMB*
4	7.90	Sulfate	87.646	28.238	10.09	56.798	BMB
<b>Total:</b>			1012.710	279.945	100.00	306.027	

After Initials nb

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10/10/10

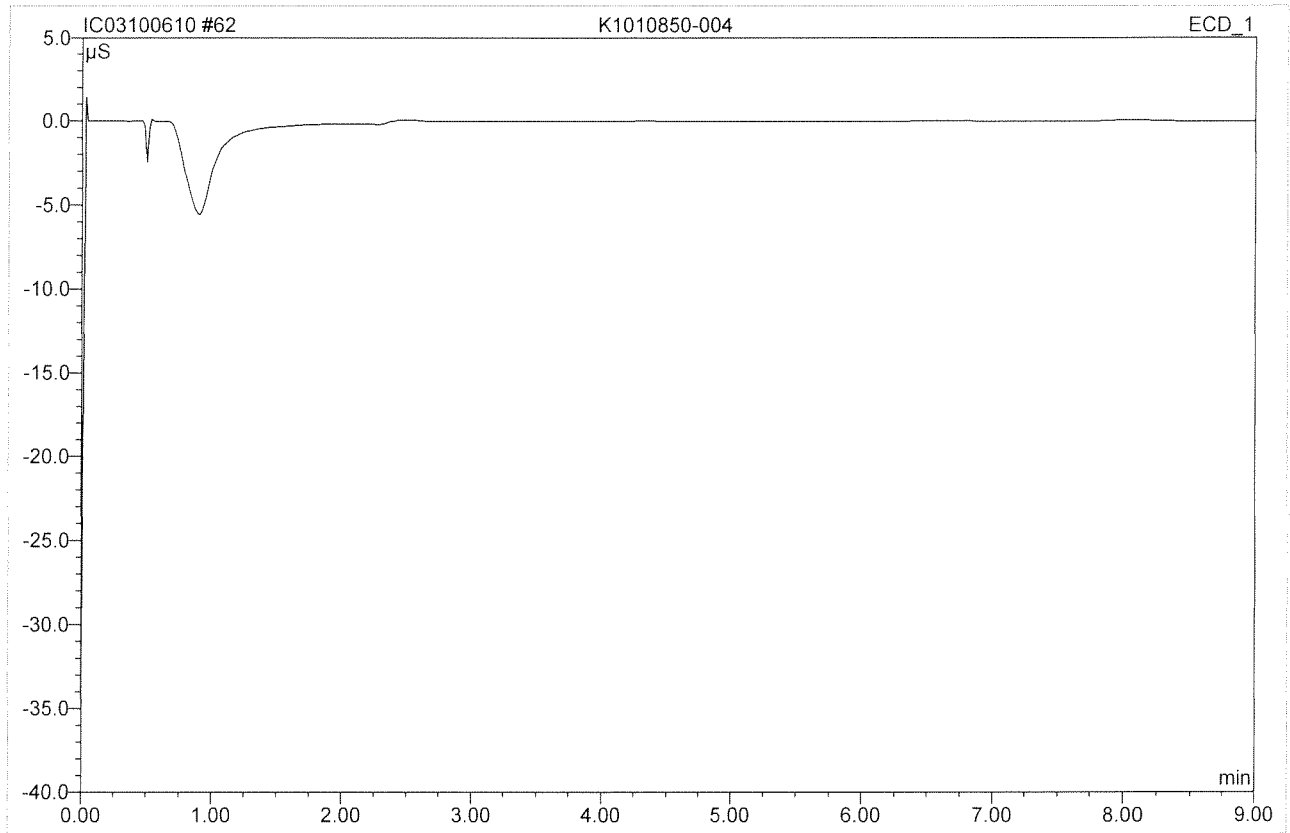
OCT 07 2010

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_



**62 K1010850-004**

Sample Name:	<b>K1010850-004</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>61</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 1:04</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

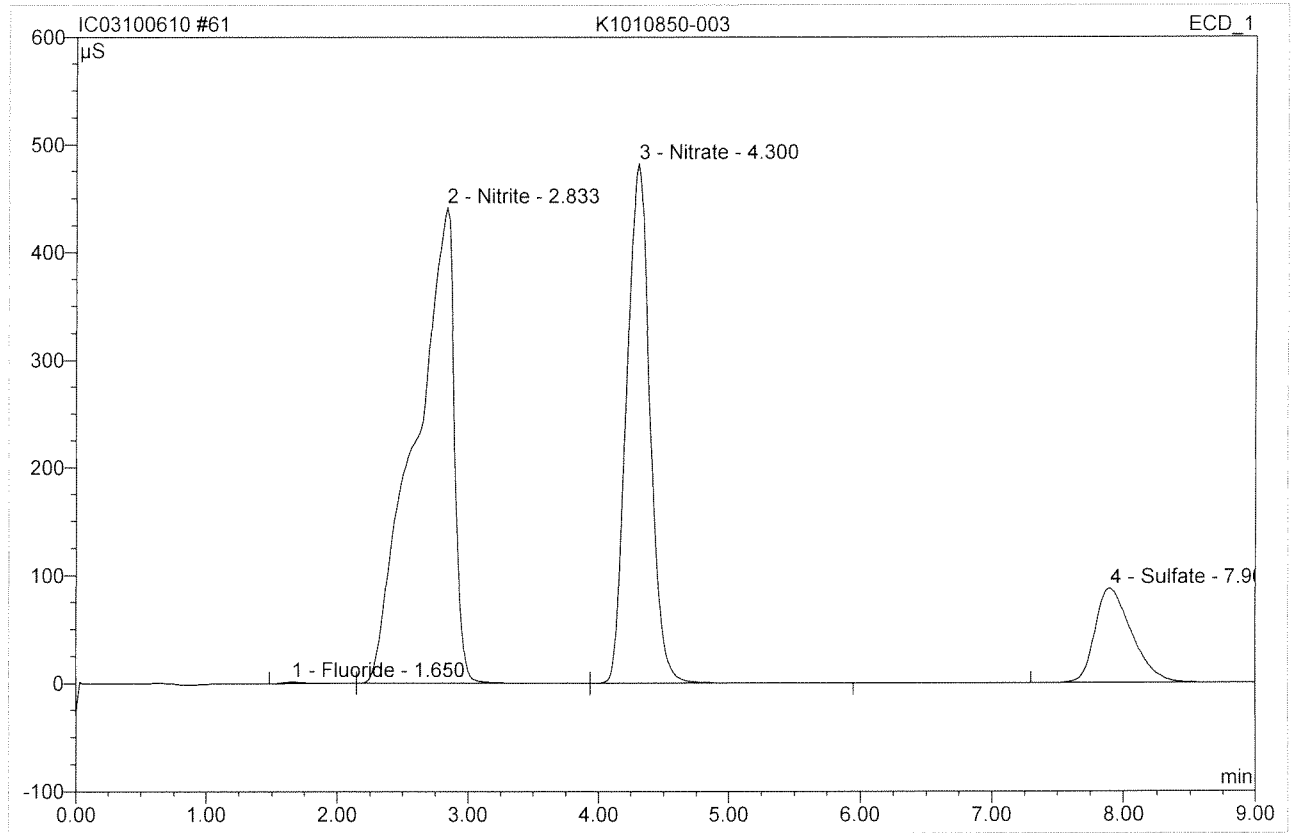


No.	Ret.Time min	Peak Name	Height $\mu$ S	Area $\mu$ S*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

F < 0.20  
Cl  
SO<sub>4</sub> ↓

HT  
10/10/10

<b>61 K1010850-003</b>			
Sample Name:	<b>K1010850-003</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>60</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:53</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

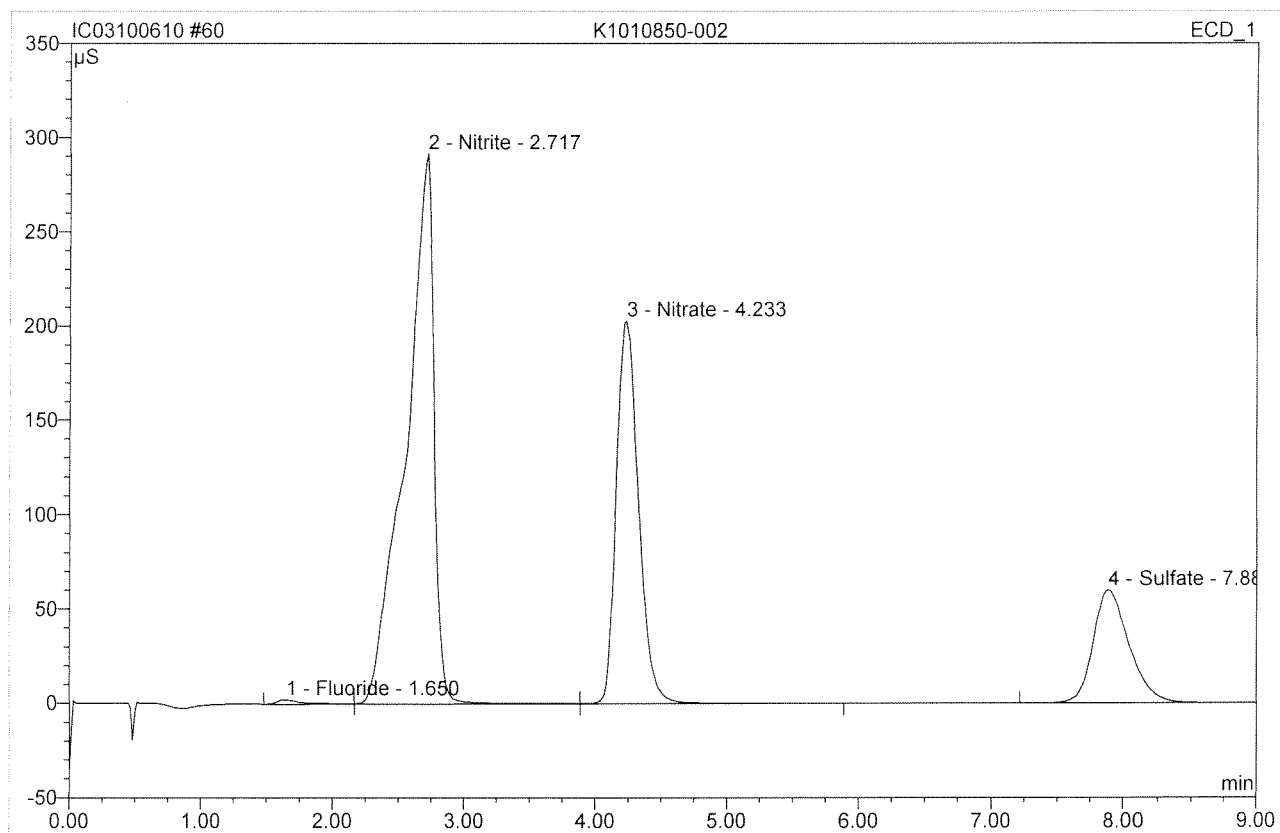


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	1.574	0.356	0.13	0.381	BMB
2	2.83	Nitrite	441.894	152.356	54.27	95.691	bM
3	4.30	Nitrate	482.250	99.773	35.54	53.455	MB
4	7.90	Sulfate	87.646	28.238	10.06	56.798	BMB
<b>Total:</b>			1013.364	280.724	100.00	206.326	

Before

OCT 07 2010

<b>60 K1010850-002</b>			
Sample Name:	<b>K1010850-002</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>59</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:41</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

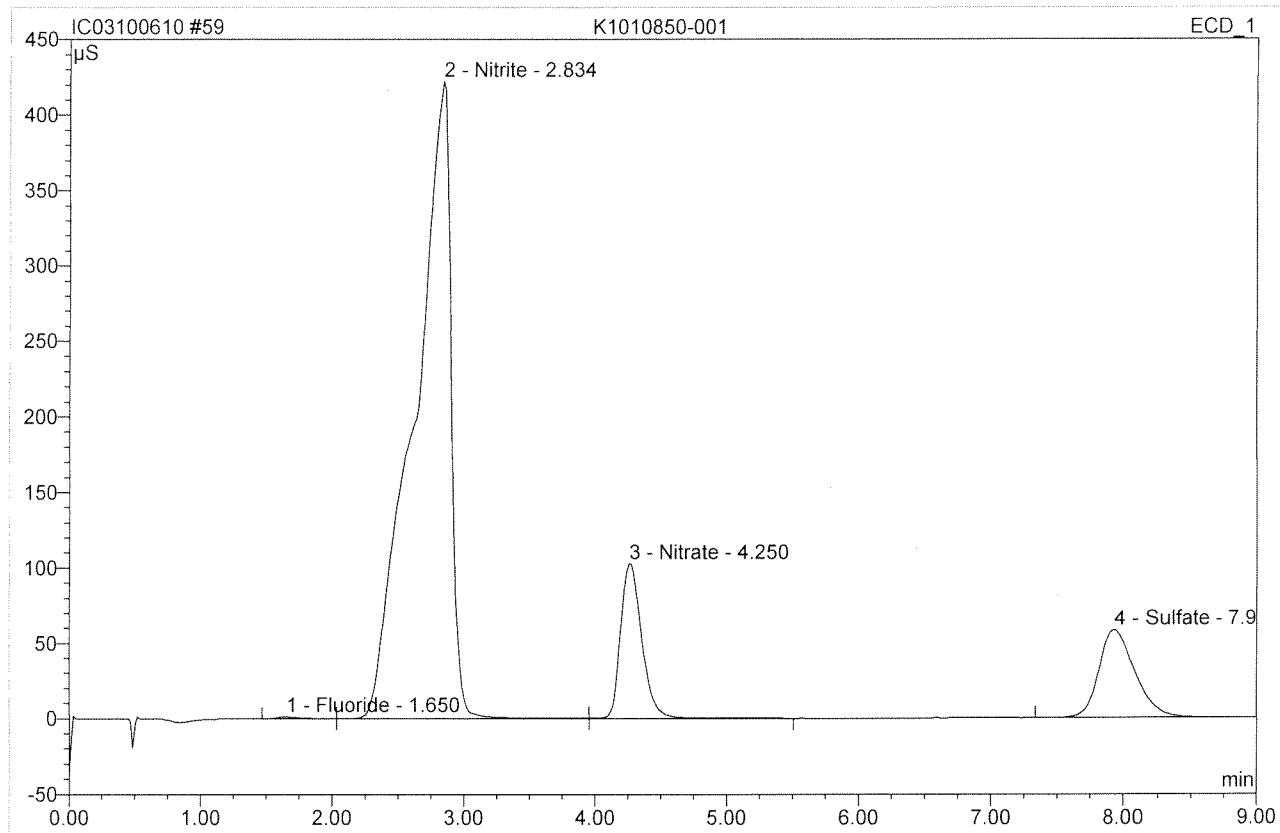


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	2.341	0.509	0.39	0.545	BM
2	2.72	Nitrite	291.669	72.069	54.98	45.265	M
3	4.23	Nitrate	202.845	39.718	30.30	21.280	MB
4	7.88	Sulfate	59.940	18.781	14.33	37.775	BMB
<b>Total:</b>			556.796	131.077	100.00	104.865	

*Before*

OCT 07 2010

<b>59 K1010850-001</b>			
Sample Name:	<b>K1010850-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>58</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 0:30</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

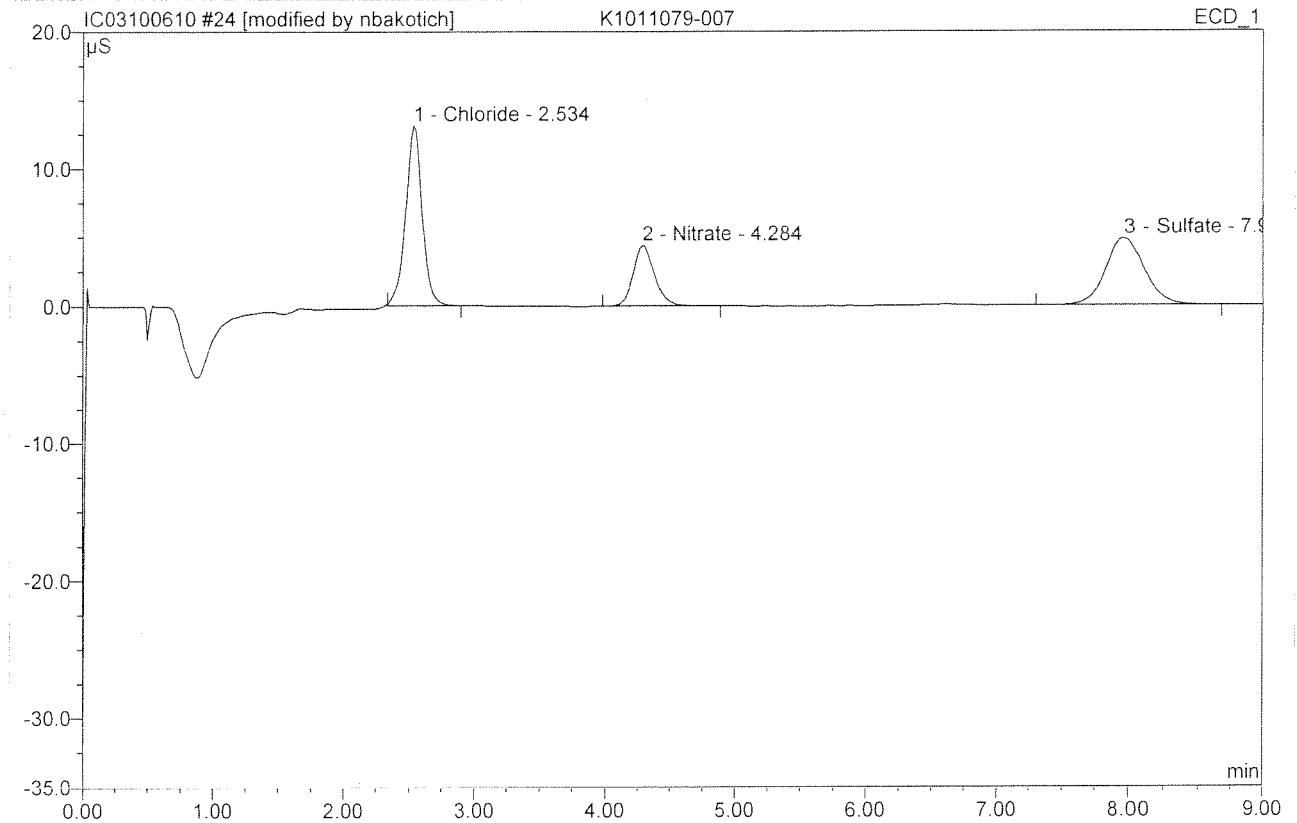


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	1.311	0.324	0.19	0.347	BM
2	2.83	Nitrite	422.732	134.151	78.05	84.257	M
3	4.25	Nitrate	102.947	19.152	11.14	10.261	MB
4	7.93	Sulfate	58.577	18.245	10.62	36.699	BMB
<b>Total:</b>			585.567	171.872	100.00	131.563	

Before

OCT 07 2010

<b>24 K1011079-007</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride <i>Z=2149 RPD=2</i>	13.066	1.910	44.06	2.461	MB*
2	4.28	Nitrate <i>Z=2043 RPD=1</i>	4.376	0.841	19.41	0.451	BMB
3	7.97	Sulfate <i>Z=2318 RPD=1</i>	4.875	1.583	36.53	3.185	BMB
<b>Total:</b>			22.317	4.335	100.00	6.097	

*NO<sub>3</sub> <0.10 x 2010 RPD*

After Initials *nb*

OCT 06 2010

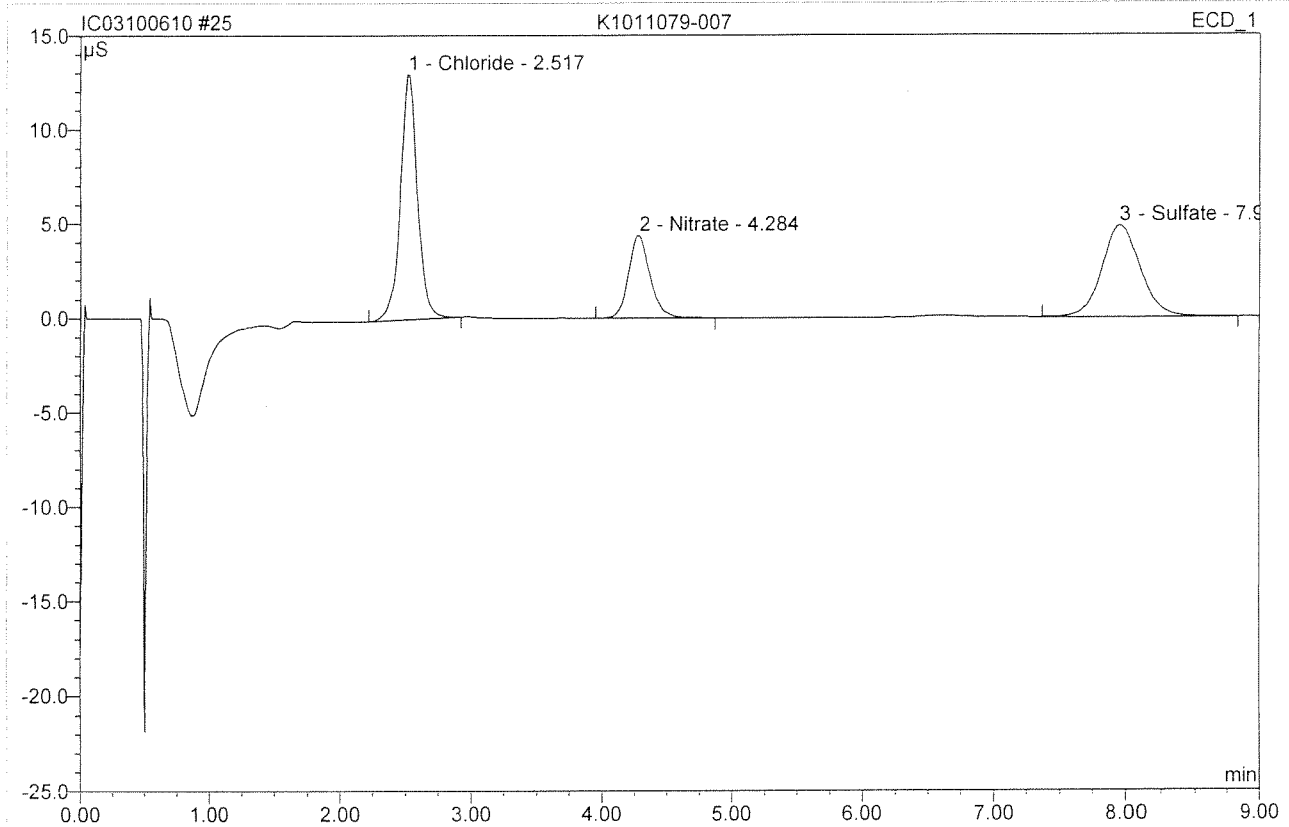
- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*nbakotich*

**25 K1011079-007**

D

Sample Name:	<b>K1011079-007</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>24</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/6/2010 18:00</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	12.993	1.954	44.79	2.517	BMB
2	4.28	Nitrate	4.330	0.835	19.13	0.447	BMB
3	7.95	Sulfate	4.819	1.574	36.08	3.166	BMB
<b>Total:</b>			22.143	4.362	100.00	6.130	

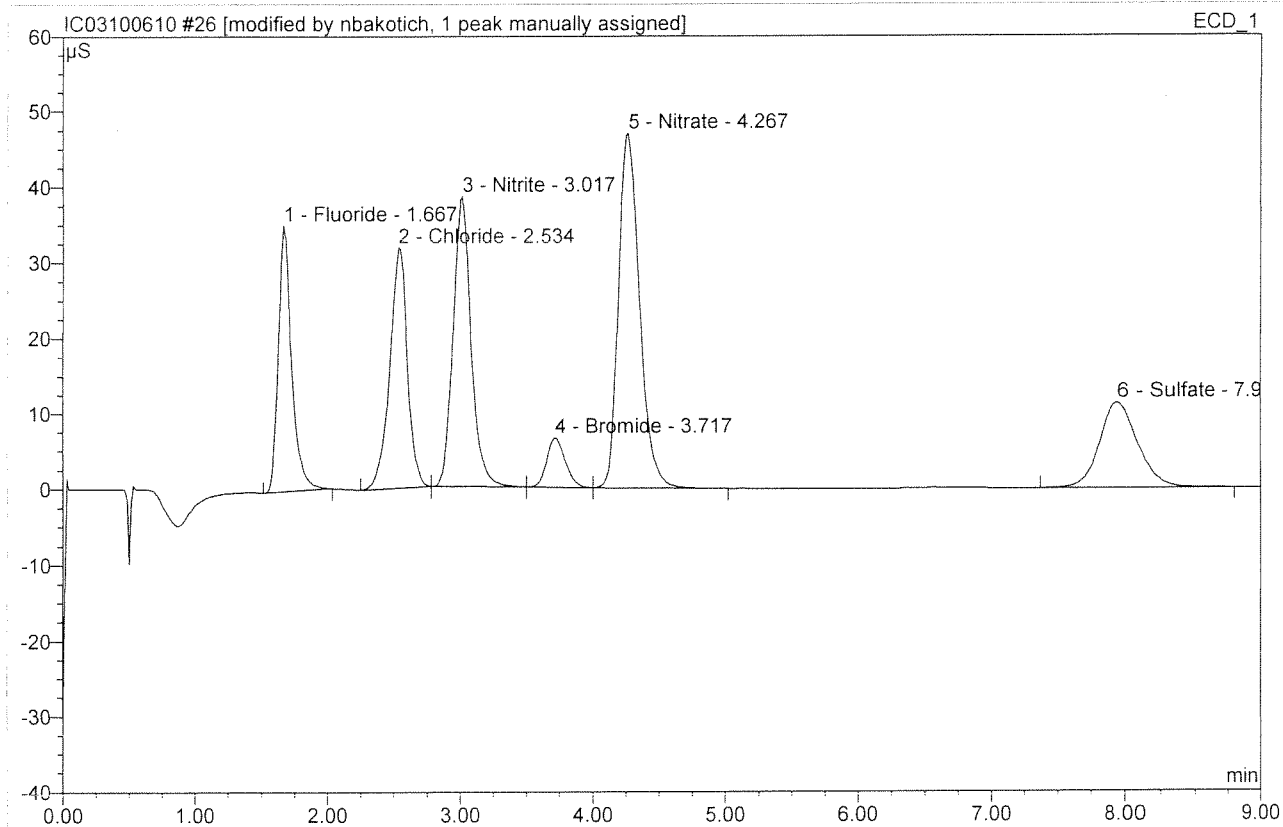
*NO<sub>2</sub> < 0.10*

*K. Bakotich*

**26 K1011079-007**

**MS**

Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride <i>RCC=111</i>	35.284	4.145	14.59	4.439	BMB* <sup>^</sup>
2	2.53	Chloride <i>RCC=97</i>	31.892	4.924	17.33	6.345	BMb*
3	3.02	Nitrite <i>RCC=95</i>	38.427	6.010	21.15	3.775	bMb
4	3.72	Bromide <i>RCC=100</i>	6.584	1.063	3.74	4.014	bMb
5	4.27	Nitrate <i>RCC=105</i>	46.937	8.661	30.48	4.640	bMB
6	7.95	Sulfate <i>RCC=102</i>	11.346	3.615	12.72	7.272	BMB
<b>Total:</b>			170.469	28.418	100.00	30.483	

*spt 1/1  
41*

After Initials *nb*

*K 10/6/10*

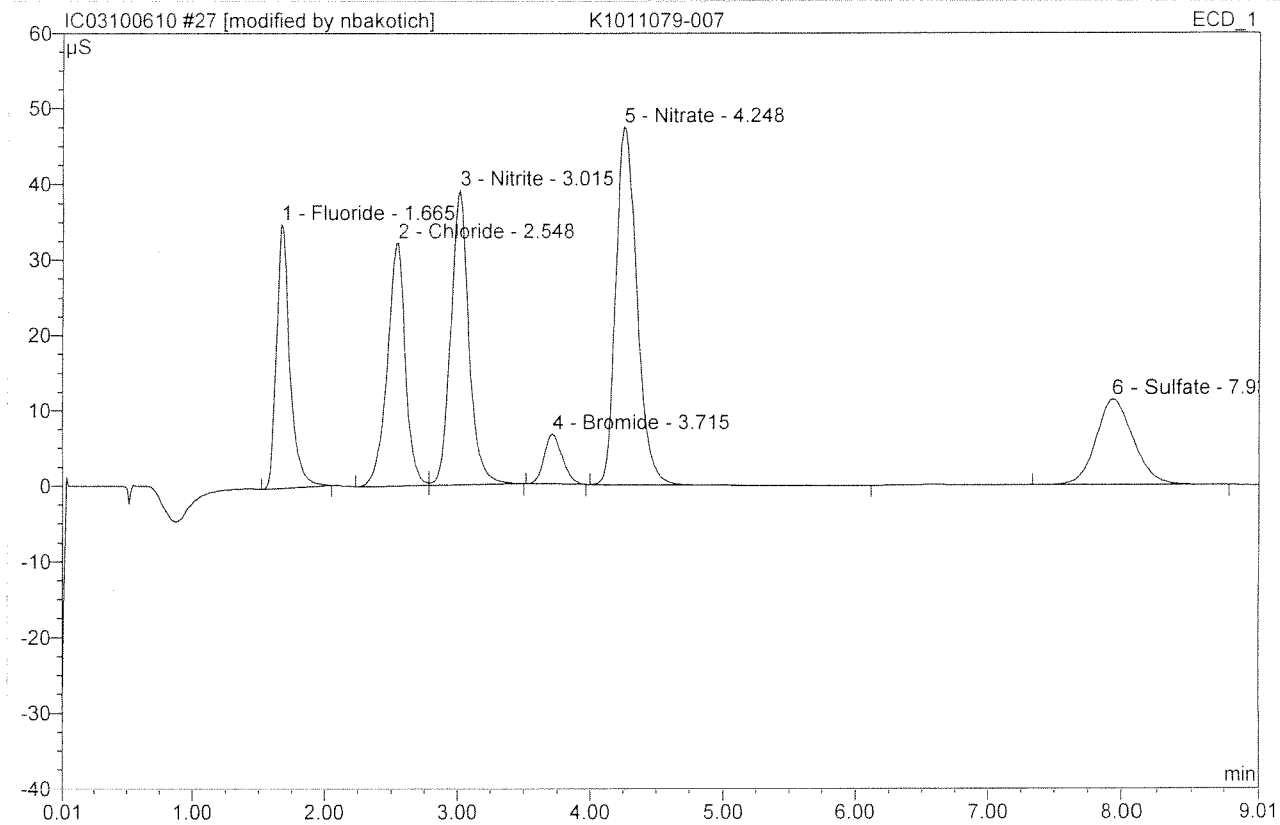
OCT 06 2010

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other \_\_\_\_\_

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>27 K1011079-007</b>			
<b>MSD</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.66	Fluoride <i>REC=112</i>	34.980	4.160	14.43	4.455	BMB*
2	2.55	Chloride <i>REC=102</i>	32.331	5.062	17.56	6.521	BM *
3	3.01	Nitrite <i>REC=98</i>	39.090	6.202	21.51	3.896	MB*
4	3.71	Bromide <i>REC=100</i>	6.639	1.058	3.67	3.995	BMB*
5	4.25	Nitrate <i>REC=106</i>	47.340	8.712	30.22	4.668	BMB*
6	7.93	Sulfate <i>REC=103</i>	11.415	3.636	12.61	7.314	BMB
<b>Total:</b>			171.794	28.831	100.00	30.849	

After Initials nb

OCT 06 2010

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other 77

*sdh/vl  
4/*

*K  
10/6/10*



Sequence # 1003100670

Ion Chromatography Data Quality Report  
Inorganics

Run # 219688

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS			
Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-33-CC</u>	Expires: <u>3.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>
Nitrite	True Value = 100 ppm	CAS ID # = _____	Expires: <u>10.6.10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>2.3.11</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-V</u>	Expires: <u>1.22.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>

CCV			
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10.28.10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10.28.10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>12.22.10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>1.30.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike			
2.0ppm X dilution factor	CAS ID# = _____	Expires	<u>10.6.10</u>
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires:	<u>CCV</u>
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires:	<u>↓</u>
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires:	<u>↓</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires:	<u>↓</u>
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires:	<u>↓</u>
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires:	<u>↓</u>

Analyst: AB Date: 10.6.10  
 First Review: ↓ Date: 10.6.17.10  
 Final Review: H Date: 10/10/10

t:\wet\ic\dqs.xls

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
11051-1	11				F			
					Cl			
					NO2	2.5/5		✓
					Br			
					NO3			✓
11052-1	11				SO4			
					F			
					Cl			
					NO2			✓
					Br			
11053-1	11				NO3			✓
					SO4			
					F			
					Cl			
					NO2			✓
11059-1	1				Br			
					NO3			✓
					SO4			
					F			
					Cl			
11061-1	1				NO2			
					Br			
					NO3			✓
					SO4			
					F			
11063-1	1				Cl			
					NO2			
					Br			
					NO3			✓
					SO4			
11069-2	1				F			
					Cl			
					NO2			
					Br			
					NO3			✓
11071-2	1				SO4			
					F			
					Cl			
					NO2			
					Br			
11079-3	V				NO3			✓
					SO4			✓
					F		115	✓
					Cl			✓
					NO2			✓
-3					Br			✓
					NO3			✓
					SO4			✓
					F			✓
					Cl			✓

Service Request	Tier	QC	hold Time	Due Date	Anions	Initial	Final	Done?
1079-4					F			
					Cl	2.6/5		✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
- 5					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
- 6					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
- 7		R			F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4	✓		✓
					F			
					Cl			
					NO2			
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Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
 Last Update: 10/7/2010 10:04:02 AM by nbakotich











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lv2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/lv3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/lv4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/lv5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/lv6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/lv7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/lv1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-Z	Unknown	8	200.0	epa300	epa300	Finished	10/6/2010 2:45:35 PM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/6/2010 2:57:03 PM
10	NO2 AN11-31-G	Unknown	10	200.0	epa300	epa300	Finished	10/6/2010 3:08:30 PM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:19:58 PM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:31:26 PM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/6/2010 3:42:54 PM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/6/2010 3:54:22 PM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/6/2010 4:05:50 PM
16	SPKCHK AN11-72-DD	Unknown	15	200.0	epa300	epa300	Finished	10/6/2010 4:17:19 PM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/6/2010 4:28:46 PM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/6/2010 4:40:15 PM
19	K1011079-002	Unknown	18	200.0	epa300	epa300	Finished	10/6/2010 4:51:43 PM
20	K1011079-003	Unknown	19	200.0	epa300	epa300	Finished	10/6/2010 5:03:10 PM
21	K1011079-004	Unknown	20	200.0	epa300	epa300	Finished	10/6/2010 5:14:38 PM
22	K1011079-005	Unknown	21	200.0	epa300	epa300	Finished	10/6/2010 5:26:06 PM
23	K1011079-006	Unknown	22	200.0	epa300	epa300	Finished	10/6/2010 5:37:34 PM
24	K1011079-007	Unknown	23	200.0	epa300	epa300	Finished	10/6/2010 5:49:02 PM
25	K1011079-007	Unknown	24	200.0	epa300	epa300	Finished	10/6/2010 6:00:30 PM
26	K1011079-007	Unknown	25	200.0	epa300	epa300	Finished	10/6/2010 6:11:57 PM
27	K1011079-007	Unknown	26	200.0	epa300	epa300	Finished	10/6/2010 6:23:25 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/6/2010 6:34:53 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/6/2010 6:46:20 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/6/2010 6:57:48 PM
31	K1011021-001	Unknown	30	200.0	epa300	epa300	Finished	10/6/2010 7:09:16 PM
32	K1011025-001	Unknown	31	200.0	epa300	epa300	Finished	10/6/2010 7:20:43 PM
33	K1011032-001	Unknown	32	200.0	epa300	epa300	Finished	10/6/2010 7:32:11 PM
34	K1010966-002	Unknown	33	200.0	epa300	epa300	Finished	10/6/2010 7:43:39 PM
35	K1010996-002	Unknown	34	200.0	epa300	epa300	Finished	10/6/2010 7:55:06 PM
36	K1010996-002	Unknown	35	200.0	epa300	epa300	Finished	10/6/2010 8:06:35 PM
37	K1010996-002	Unknown	36	200.0	epa300	epa300	Finished	10/6/2010 8:18:03 PM
38	K1010851-001	Unknown	37	200.0	epa300	epa300	Finished	10/6/2010 8:29:30 PM
39	K1010851-003	Unknown	38	200.0	epa300	epa300	Finished	10/6/2010 8:40:58 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/6/2010 8:52:26 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/6/2010 9:03:53 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/6/2010 9:15:21 PM

Sequence: IC03100610  
Operator: nbakotich

Page 2 of 6  
Printed: 10/7/2010 10:13:45 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std1/lvl1	1.0000	
8	 CCV AN11-82-Z	1.0000	
9	 CCB1	1.0000	
10	 NO2 AN11-31-G	25.0000	NO2
11	 MB	1.0000	MB
12	 NO3 AN1-33-V	20.0000	NO3
13	 CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	 F AN 1-33-Y	2.0000	F
15	 Br AN1-33-L	1.0000	Br
16	 SPKCHK AN11-72-DD	1.0000	
17	 CCV2	1.0000	CCV2
18	 CCB2	1.0000	CCB2
19	 K1011079-002	2.0000	
20	 K1011079-003	2.0000	
21	 K1011079-004	2.0000	
22	 K1011079-005	2.0000	
23	 K1011079-006	2.0000	
24	 K1011079-007	2.0000	
25	 K1011079-007	2.0000	D
26	 K1011079-007	2.0000	MS
27	 K1011079-007	2.0000	MSD
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1011021-001	2.0000	
32	 K1011025-001	2.0000	
33	 K1011032-001	2.0000	
34	 K1010966-002	2.0000	
35	 K1010996-002	2.0000	D
36	 K1010996-002	2.0000	MS
37	 K1010996-002	2.0000	MSD
38	 K1010851-001	100.0000	
39	 K1010851-003	100.0000	
40	 RB	1.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Title:

Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
 Last Update: 10/7/2010 10:04:02 AM by nbakotich











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1010851-004	Unknown	42	200.0	epa300	epa300	Finished	10/6/2010 9:26:49 PM
44	K1010851-005	Unknown	43	200.0	epa300	epa300	Finished	10/6/2010 9:38:17 PM
45	K1010851-006	Unknown	44	200.0	epa300	epa300	Finished	10/6/2010 9:49:45 PM
46	K1010854-001	Unknown	45	200.0	epa300	epa300	Finished	10/6/2010 10:01:13 PM
47	K1010854-002	Unknown	46	200.0	epa300	epa300	Finished	10/6/2010 10:12:40 PM
48	K1010923-004	Unknown	47	200.0	epa300	epa300	Finished	10/6/2010 10:24:09 PM
49	K1011008-001	Unknown	48	200.0	epa300	epa300	Finished	10/6/2010 10:35:36 PM
50	K1010795-001	Unknown	49	200.0	epa300	epa300	Finished	10/6/2010 10:47:03 PM
51	K1010795-002	Unknown	50	200.0	epa300	epa300	Finished	10/6/2010 10:58:31 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/6/2010 11:09:58 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/6/2010 11:21:26 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/6/2010 11:32:54 PM
55	K1011008-001	Unknown	54	200.0	epa300	epa300	Finished	10/6/2010 11:44:21 PM
56	K1011008-001	Unknown	55	200.0	epa300	epa300	Finished	10/6/2010 11:55:49 PM
57	K1011008-001	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 12:07:17 AM
58	K1010795-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 12:18:47 AM
59	K1010850-001	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 12:30:15 AM
60	K1010850-002	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 12:41:43 AM
61	K1010850-003	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 12:53:12 AM
62	K1010850-004	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 1:04:39 AM
63	K1010899-001	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 1:16:07 AM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 1:27:34 AM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 1:39:02 AM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 1:50:29 AM
67	K1011059-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 2:01:57 AM
68	K1011061-001	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 2:13:25 AM
69	K1011062-001	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 2:24:53 AM
70	K1010960-005	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 2:36:21 AM
71	K1011069-002	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 2:47:51 AM
72	K1011071-002	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 2:59:19 AM
73	NO2 LOQ	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 3:10:46 AM
74	NO2 LOD	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 3:22:15 AM
75	K1010899-002	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 3:33:43 AM
76	RB	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 3:45:10 AM
77	CCV7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 3:56:38 AM
78	CCB7	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 4:08:05 AM
79	MB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 4:19:33 AM
80	CLSO4	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 4:31:00 AM
81	K1011079-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:42:28 AM
82	K1010851-001	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:53:56 AM
83	K1010851-003	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:05:24 AM
84	K1010851-004	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:16:51 AM

Sequence: IC03100610  
Operator: nbakotich

Page 4 of 6  
Printed: 10/7/2010 10:13:45 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
43	 K1010851-004	100.0000	
44	 K1010851-005	100.0000	
45	 K1010851-006	100.0000	
46	 K1010854-001	2.0000	
47	 K1010854-002	2.0000	
48	 K1010923-004	2.0000	
49	 K1011008-001	2.0000	
50	 K1010795-001	2.0000	
51	 K1010795-002	2.0000	
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1011008-001	2.0000	D
56	 K1011008-001	2.0000	MS
57	 K1011008-001	2.0000	MSD
58	 K1010795-003	2.0000	
59	 K1010850-001	2.0000	
60	 K1010850-002	2.0000	
61	 K1010850-003	2.0000	
62	 K1010850-004	1.0000	
63	 K1010899-001	2.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1011059-001	2.0000	
68	 K1011061-001	2.0000	
69	 K1011062-001	2.0000	
70	 K1010960-005	10.0000	
71	 K1011069-002	2.0000	
72	 K1011071-002	2.0000	
73	 NO2 LOQ	1.0000	LOQ
74	 NO2 LOD	1.0000	LOD
75	 K1010899-002	1.0000	
76	 RB	1.0000	
77	 CCV7	1.0000	CCV7
78	 CCB7	1.0000	CCB7
79	 MB	1.0000	MB2
80	 CLSO4	1.0000	CLSO4 2
81	 K1011079-002	5.0000	
82	 K1010851-001	5.0000	
83	 K1010851-003	5.0000	
84	 K1010851-004	10.0000	




Sequence: IC03100610  
Operator: nbakotich

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Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

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No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 RB	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:28:19 AM
86	 CCV8	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:39:46 AM
87	 CCB8	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 5:51:13 AM



Sequence: IC03100610  
Operator: nbakotich

Title:

Datasource: ACQWET10\_local

Location: DX120A


Timebase: DX120

#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10

Last Update: 10/7/2010 10:04:02 AM by nbakotich

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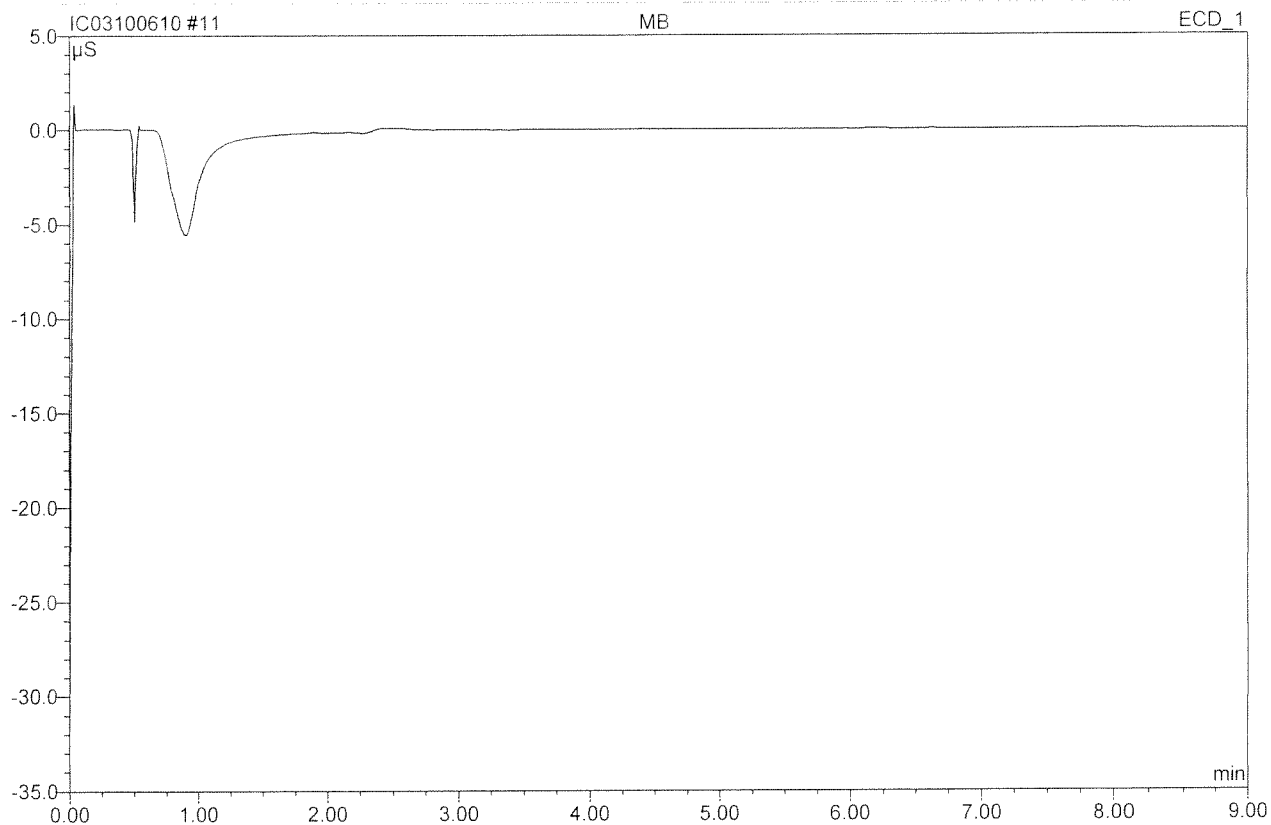
No.	Name	Dil. Factor	Comment
85	 RB	1.0000	
86	 CCV8	1.0000	CCV8
87	 CCB8	1.0000	CCB8

Service Request	Tier	QC	Hold Time	Due Date	Arrons	Initial	Final	Done?
0766-2	1	X			F CI	2.5/3		✓
					NO2			
					Br			
					NO3			
					SO4			
0851-1	11				F CI	1/100	1/5	✓
					NO2			
					Br			
					NO3			
					SO4			✓
-3					F CI		1/5	✓
					NO2			
					Br			
					NO3			
					SO4			✓
-4					F CI		0.5/5	
					NO2			
					Br			
					NO3			
					SO4			✓
-5					F CI			
					NO2			
					Br			
					NO3			
					SO4			
-6					F CI			
					NO2			
					Br			
					NO3			
					SO4			
0854-1	11				F CI	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			
-2					F CI			✓
					NO2			
					Br			
					NO3			
					SO4			
0923-4	11				F CI			✓
					NO2			
					Br			
					NO3			
					SO4			
1008-1	11	X			F CI	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
10850-1	III				(F)	2.5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
-2					(F)			✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
-3					(F)	5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
10850-1	III				(F)	2.5/5		✓
					(Cl)			
					NO2			
					Br			
					NO3			
-2					(F)			✓
					(Cl)			
					NO2			
					Br			
					NO3			
-3					(F)			✓
					(Cl)			
					NO2			
					Br			
					NO3			
-4					(F)	5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
10899-1	III				(F)	9.5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
-2					(F)	2/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
T949-1	I				(F)			
					(Cl)			
					NO2			
					Br			
					NO3			
					(SO4)	0.25/5		✓

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
79619-2					F			
					Cl			
					NO2			
					Br			
					NO3			
10960-5					SO4	0.8/5		
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			

<b>11 MB</b>			
<b>MB</b>			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 15:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



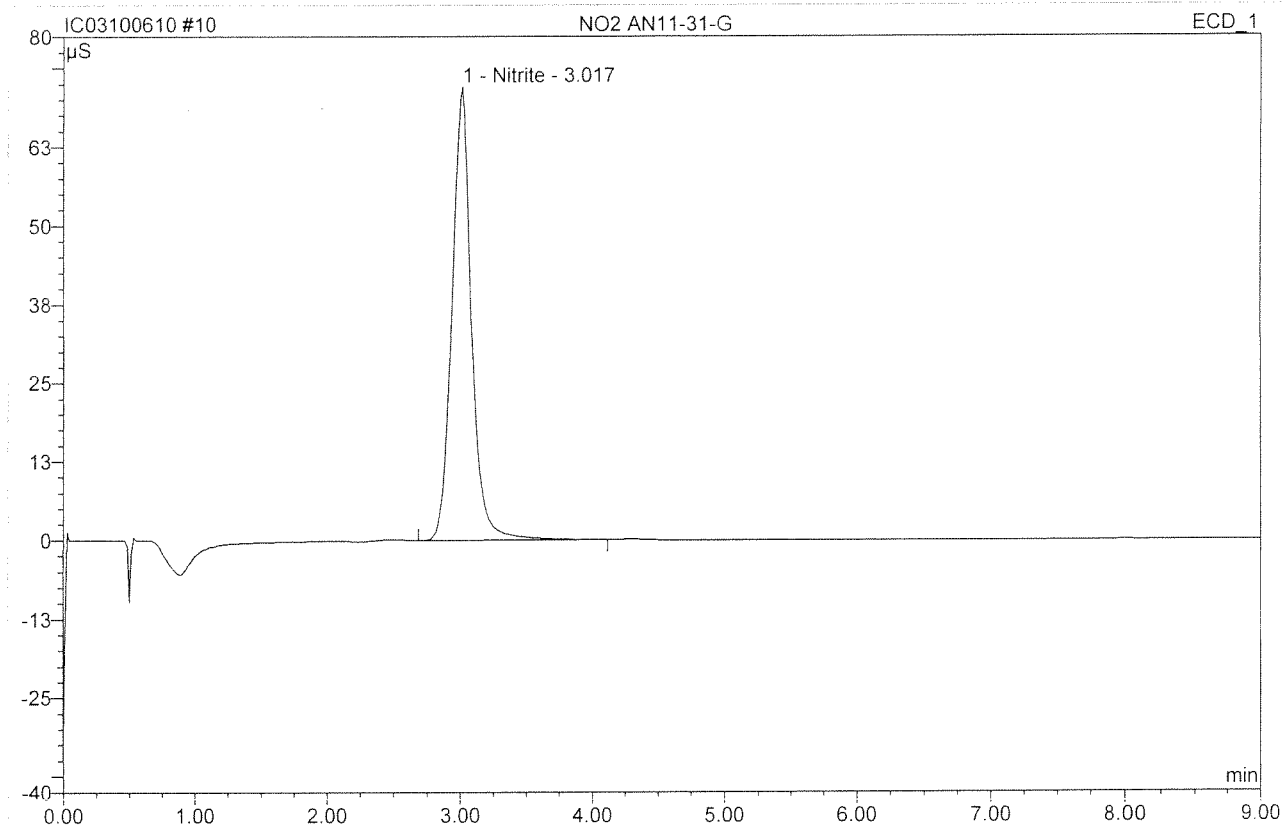
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature and date: 10/6/10*

# 10 NO2 AN11-31-G

## NO2

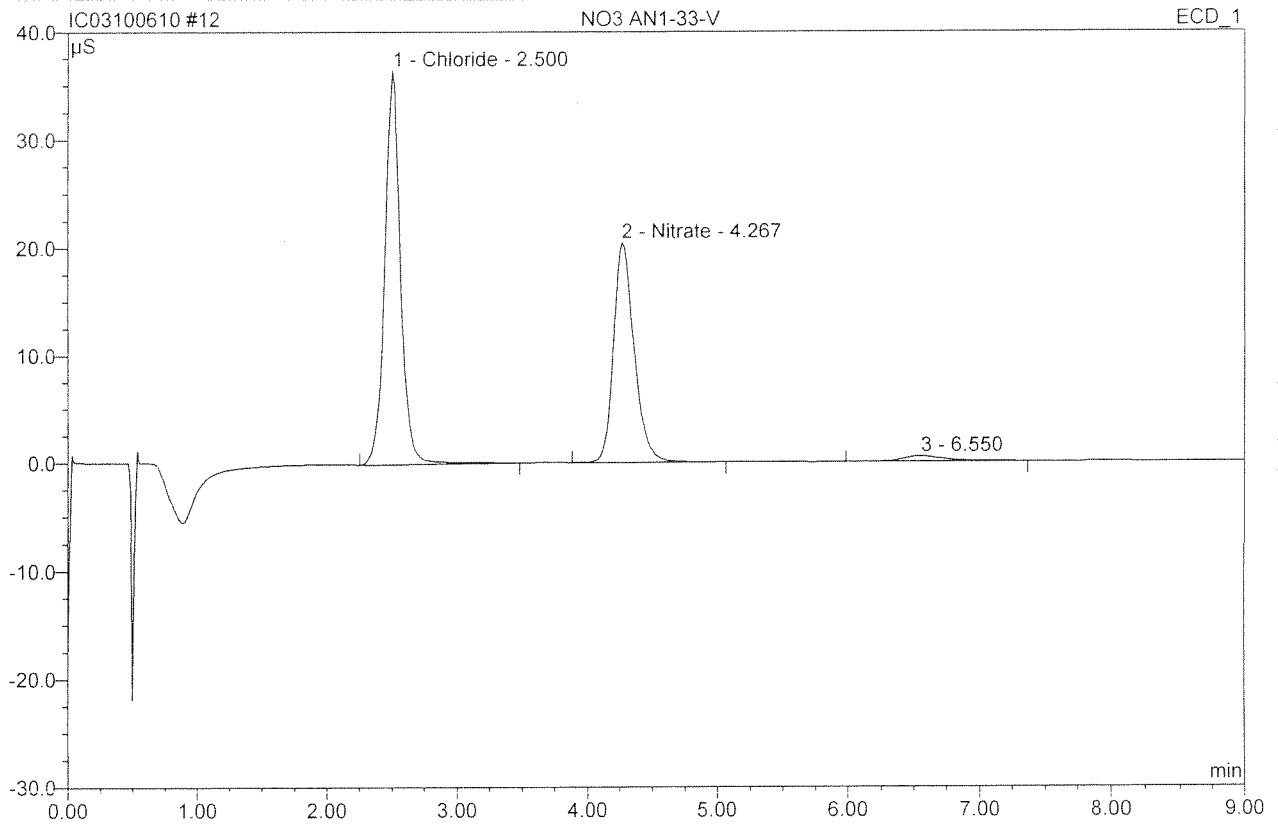
Sample Name:	NO2 AN11-31-G	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/6/2010 15:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.02	Nitrite	72.057	12.340	100.00	96.881	BMB
<b>Total:</b>			72.057	12.340	100.00	96.881	

*Handwritten signature and date: 10/6/10*

<b>12 NO3 AN1-33-V</b>			
<b>NO3</b>			
Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/6/2010 15:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



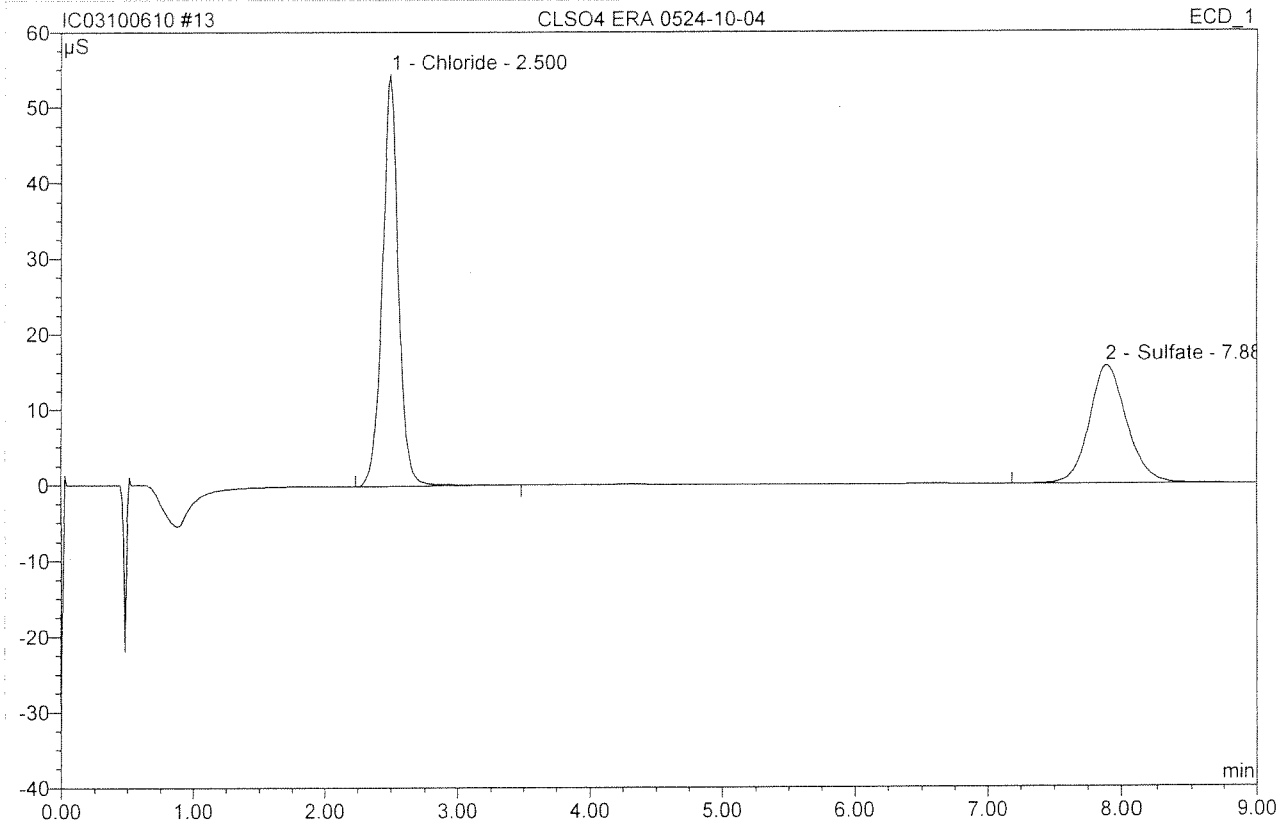
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.50	Chloride	36.517	5.185	56.31	66.805	BMB
2	4.27	Nitrate	20.440	3.827	41.56	20.505	BMB
3	6.55	n.a.	0.499	0.196	2.13	n.a.	BMB
<b>Total:</b>			57.455	9.209	100.00	87.311	

*Handwritten signature/initials*

**13 CLSO4 ERA 0524-10-04**

**CLSO4**

Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 15:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

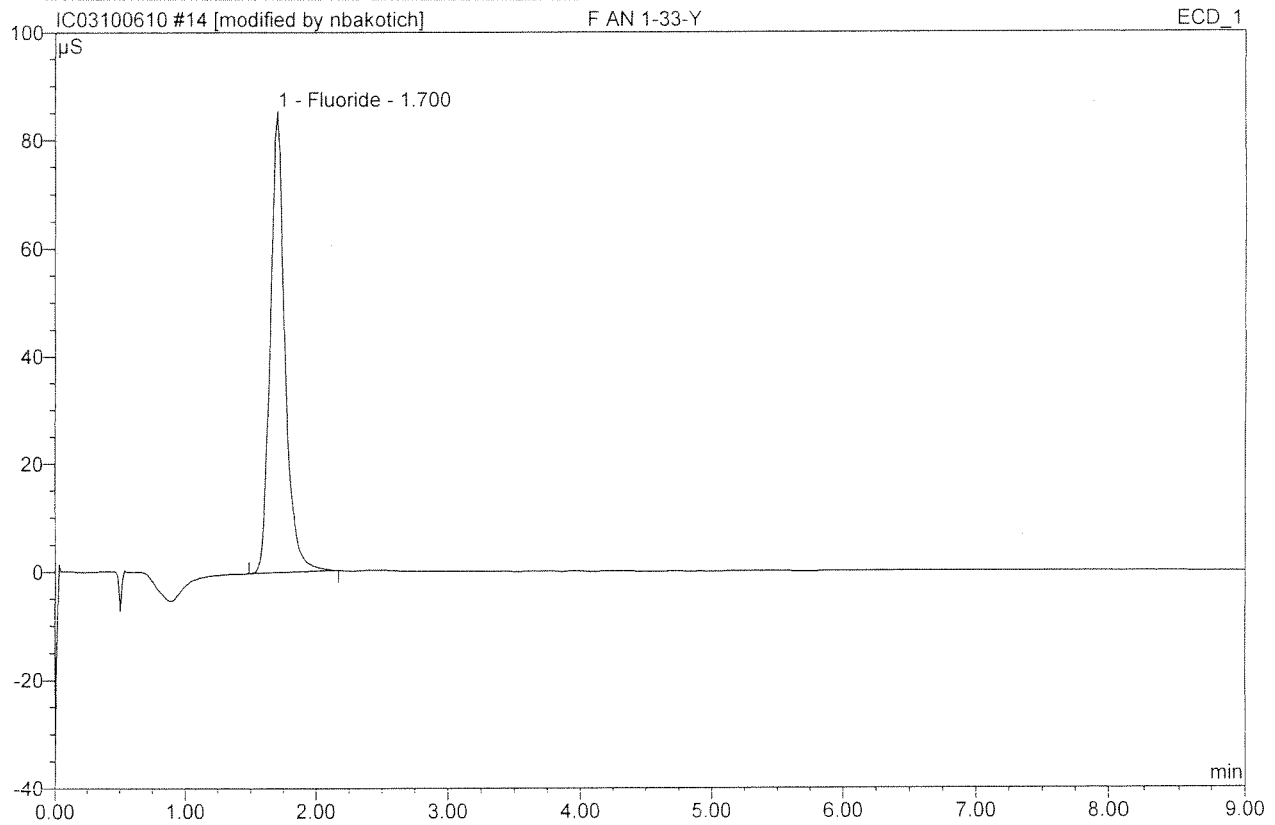


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.529	7.660	60.30	4.935	BMB
2	7.88	Sulfate	15.690	5.044	39.70	5.073	BMB
<b>Total:</b>			70.219	12.704	100.00	10.007	

*Handwritten signature/initials and date: 10/6/10*



<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	85.447	11.150	100.00	108 11.939	BMB*
<b>Total:</b>			85.447	11.150	100.00	11.939	

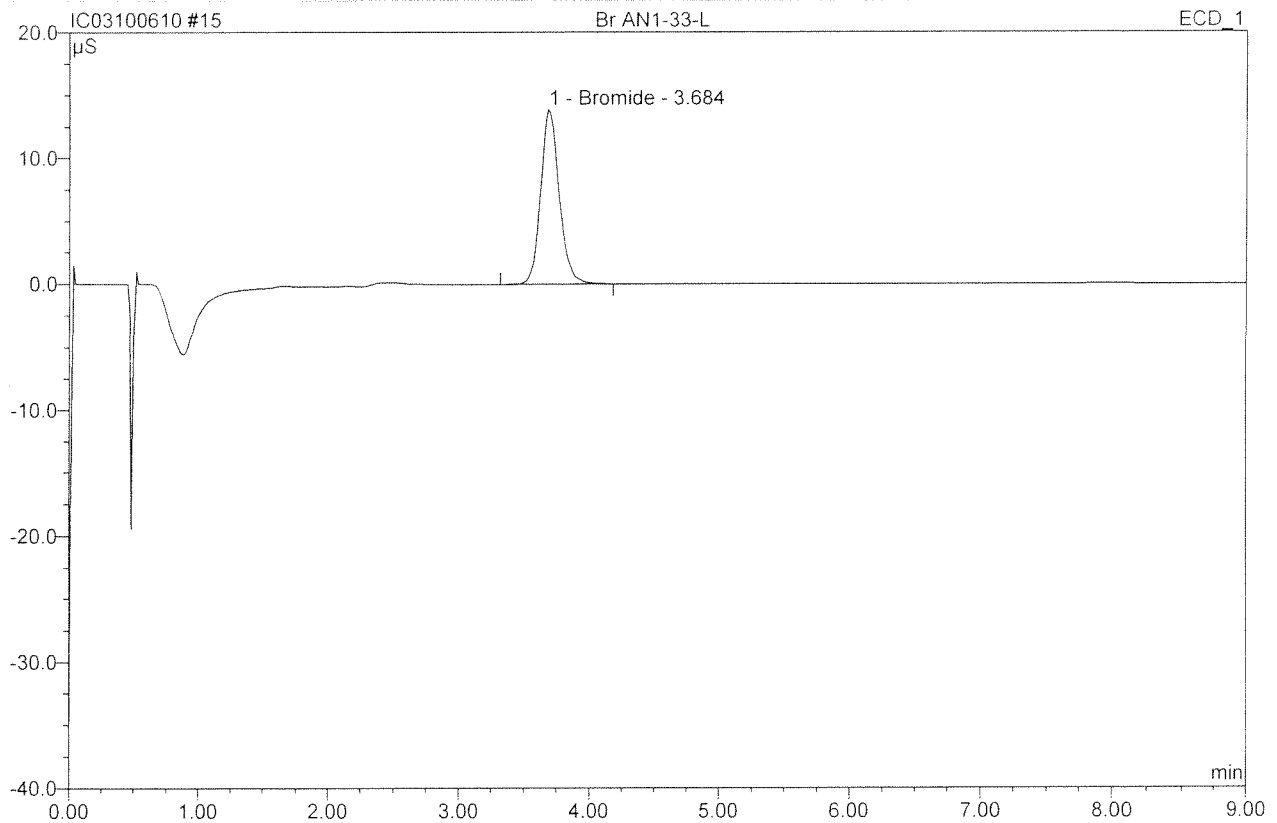
After Initials nb

OCT 06 2010

*Handwritten signature and date: dk 10/6/10*

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

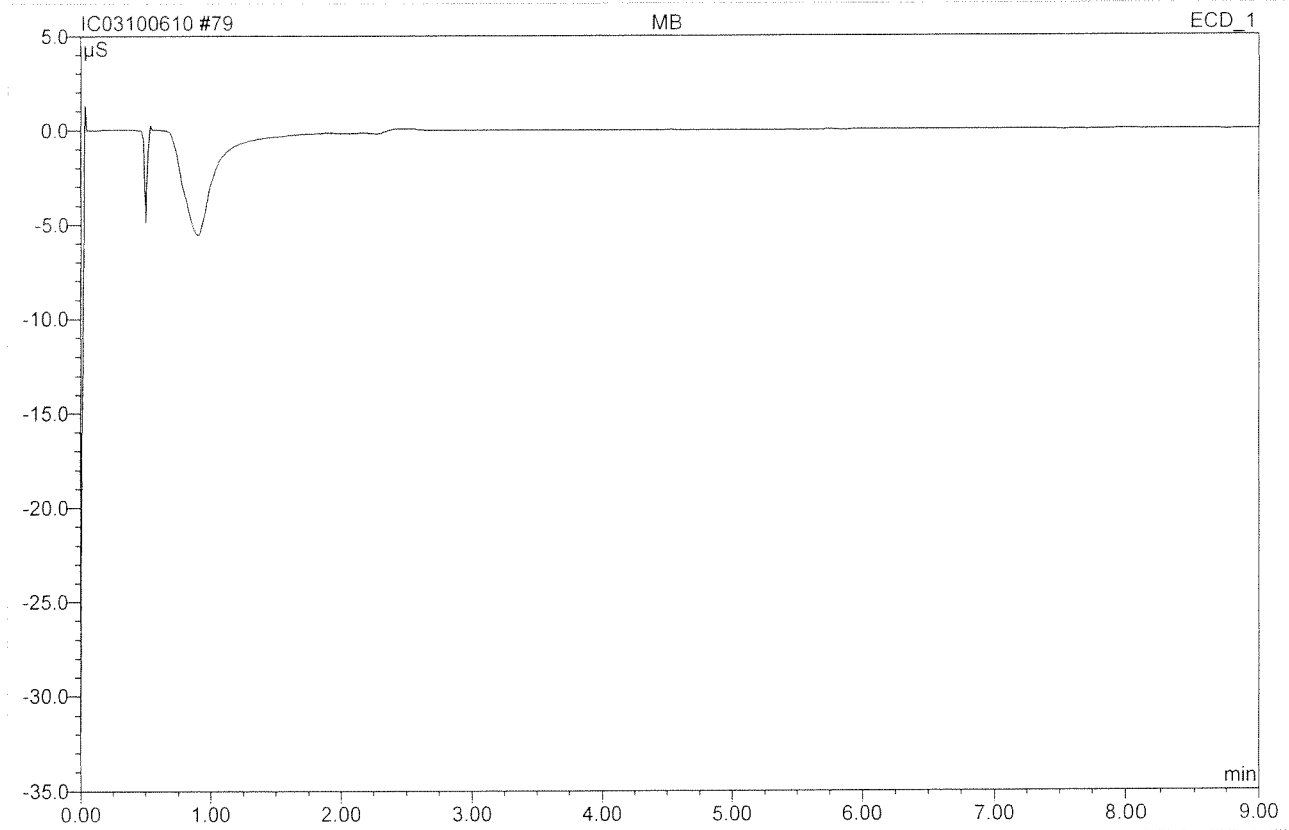
<b>15 Br AN1-33-L</b>			
<b>Br</b>			
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.68	Bromide	13.895	2.280	100.00	4.303	BMB
<b>Total:</b>			13.895	2.280	100.00	4.303	

*Handwritten signature*

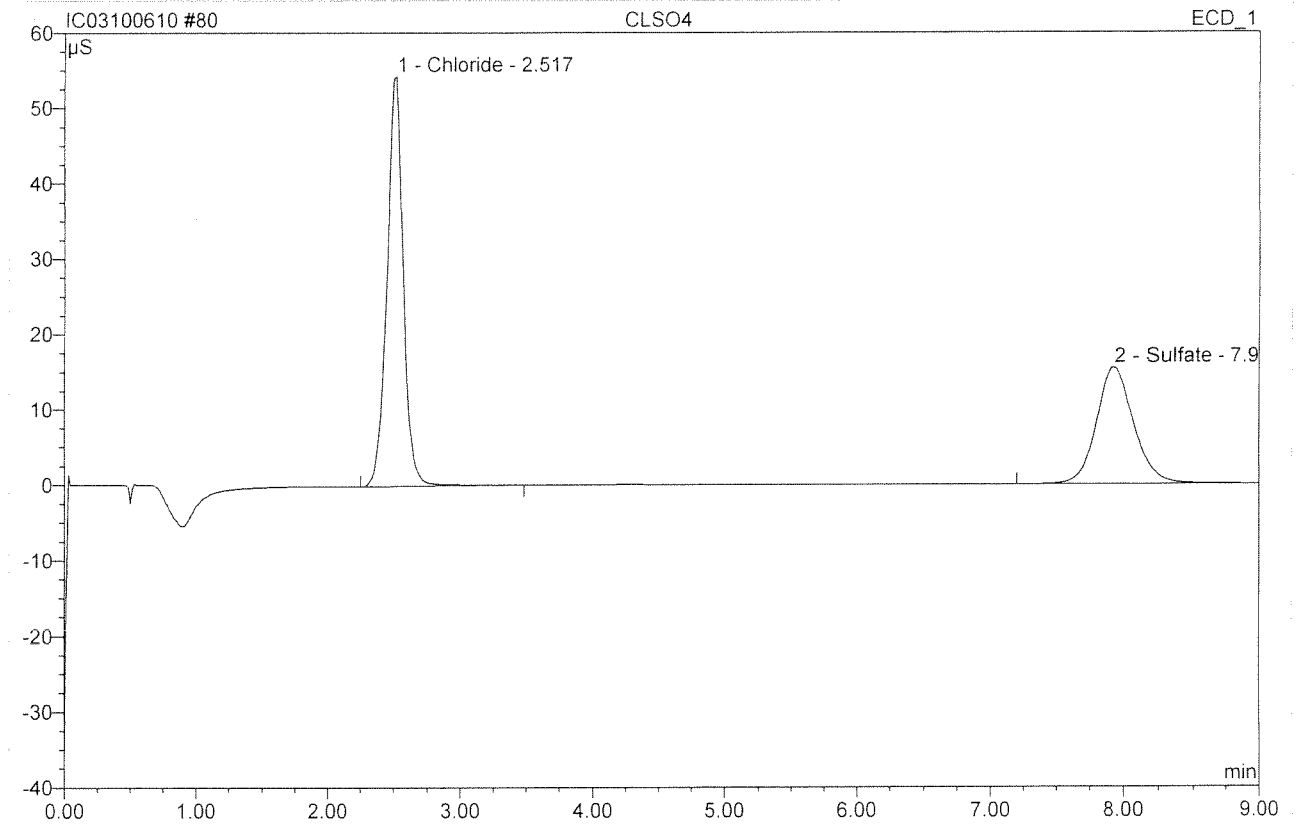
<b>79 MB</b>			
<b>MB2</b>			
Sample Name:	<b>MB</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>78</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 4:19</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*HT*  
*10/10/10*

<b>80 CLSO4</b>			
<b>CLSO4 2</b>			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	79	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

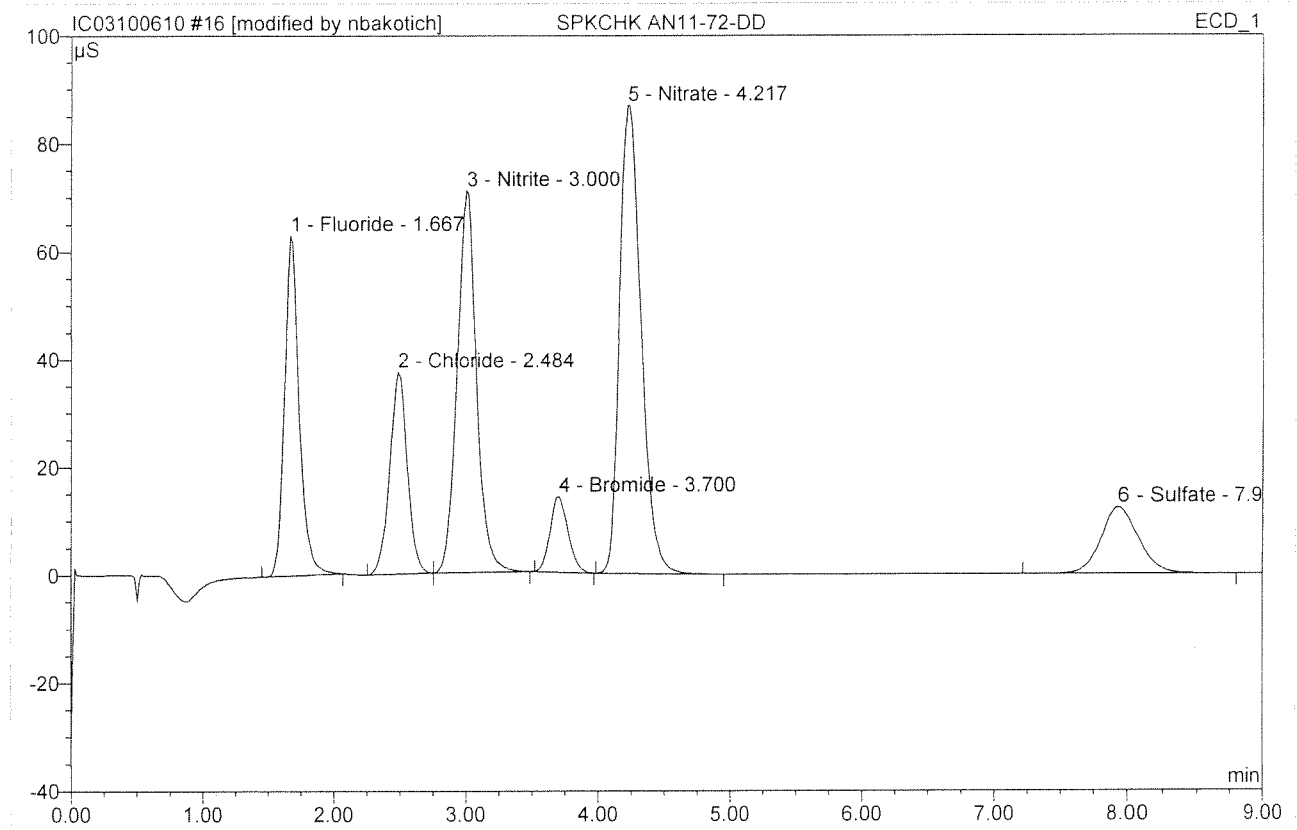


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	54.398	7.701	60.81	99 4.961	BMB
2	7.93	Sulfate	15.488	4.964	39.19	100 4.992	BMB
<b>Total:</b>			69.886	12.665	100.00	9.954	

*AK 10/10/10*

# 16 SPKCHK AN11-72-DD

Sample Name:	SPKCHK AN11-72-DD	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

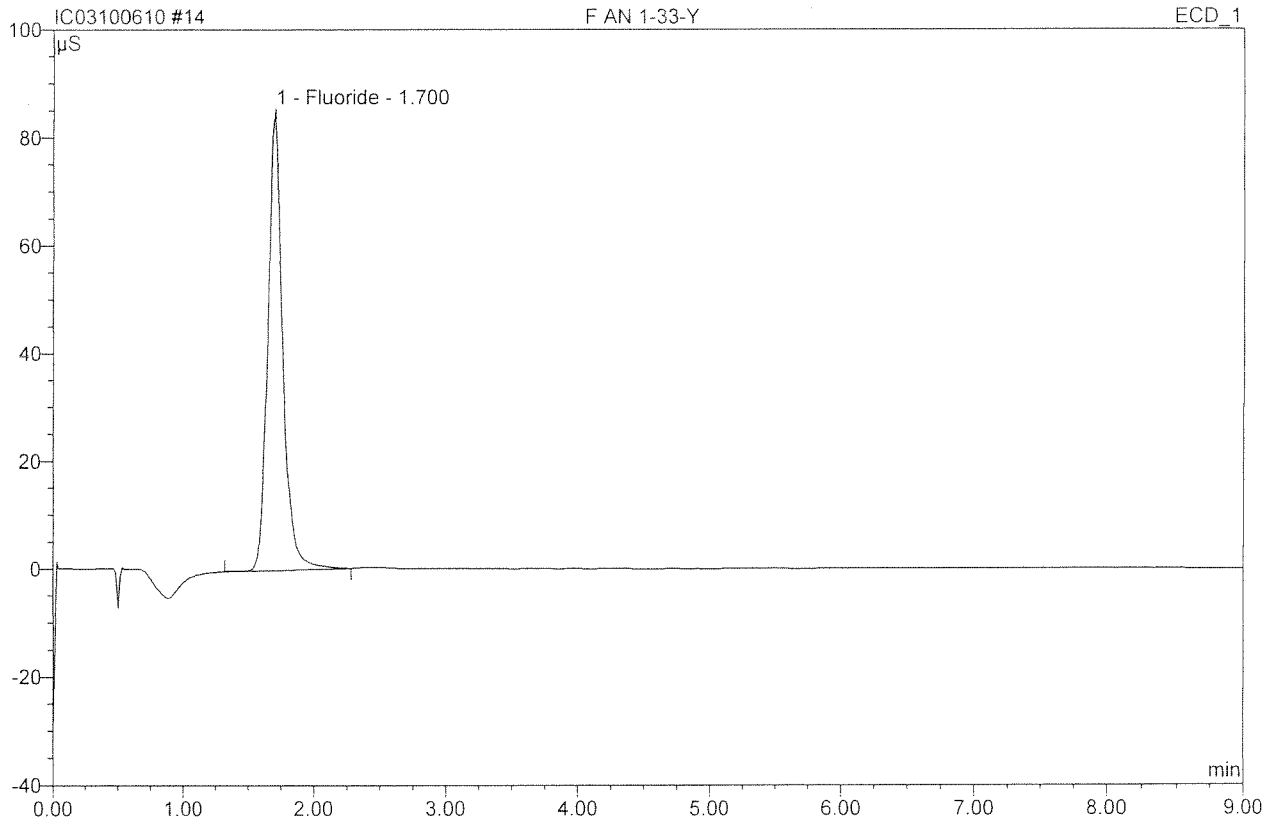


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	63.161	8.138	16.84	4.357	BMB*
2	2.48	Chloride	37.446	5.776	11.95	3.721	BMb*
3	3.00	Nitrite	70.830	12.016	24.86	3.774	bMB*
4	3.70	Bromide	14.011	2.200	4.55	4.152	BMB*
5	4.22	Nitrate	86.717	16.259	33.64	4.356	BMB*
6	7.93	Sulfate	12.339	3.941	8.15	3.963	BMB
<b>Total:</b>			284.505	48.331	100.00	24.323	

TV=4.0

*Handwritten signature/initials*

<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

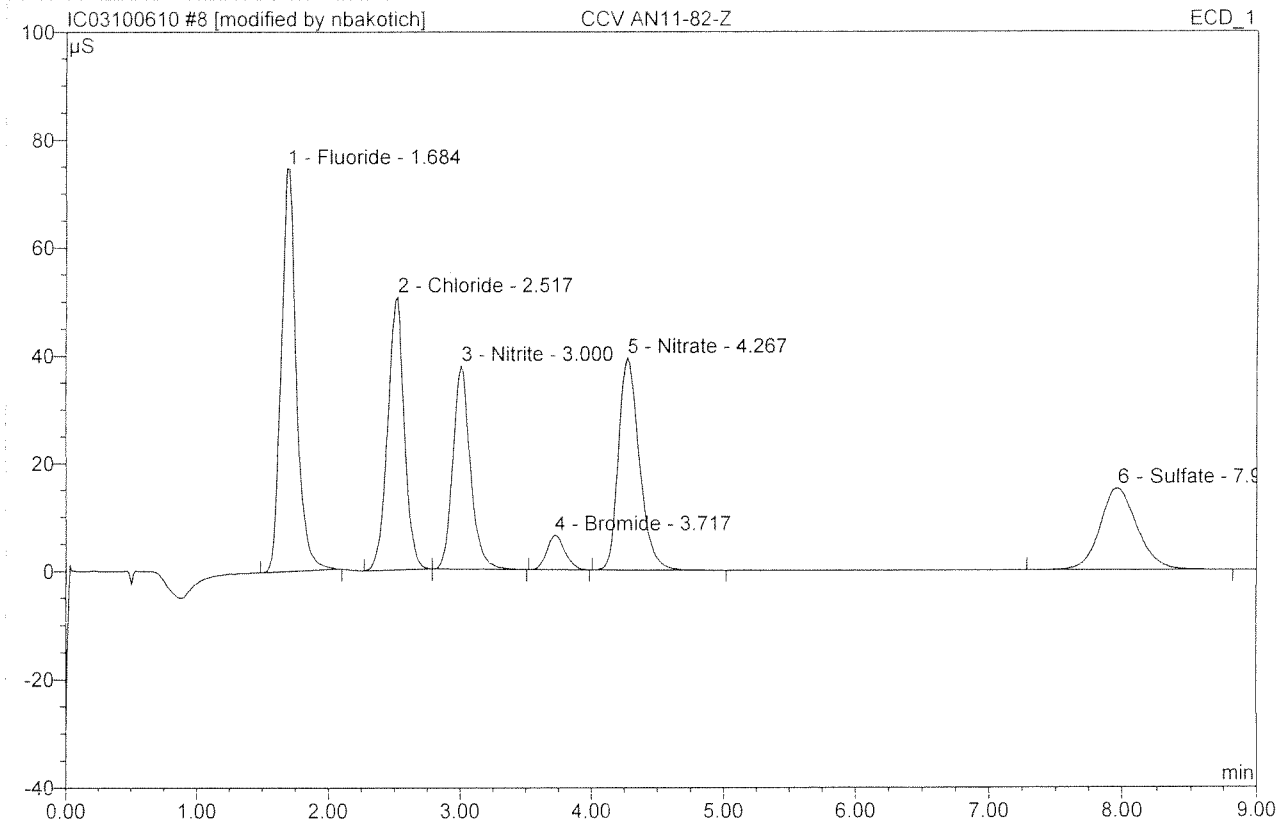


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	85.568	11.275	100.00	110 12.074	BMB
<b>Total:</b>			85.568	11.275	100.00	12.074	

Before

OCT 06 2010

<b>8 CCV AN11-82-Z</b>			
Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



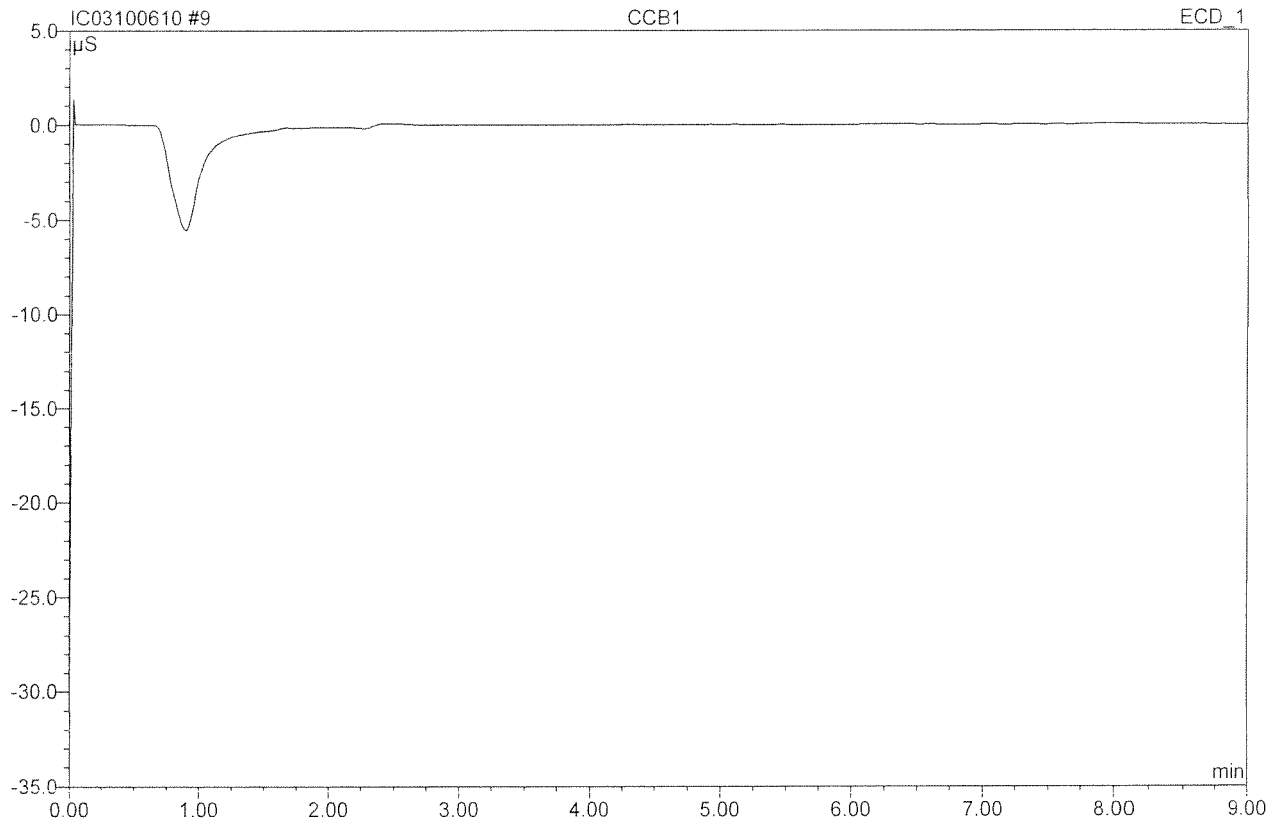
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.758	9.876	27.33	5.288	BMB*
2	2.52	Chloride	50.609	7.361	20.37	4.742	BMB*
3	3.00	Nitrite	37.787	5.832	16.14	1.831	bMB*
4	3.72	Bromide	6.343	1.015	2.81	1.916	BMB*
5	4.27	Nitrate	39.378	7.237	20.03	1.939	BMB*
6	7.97	Sulfate	15.179	4.809	13.31	74.837	BMB
<b>Total:</b>			224.054	36.131	100.00	20.553	

After Initials MB

OCT 06 2010

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<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

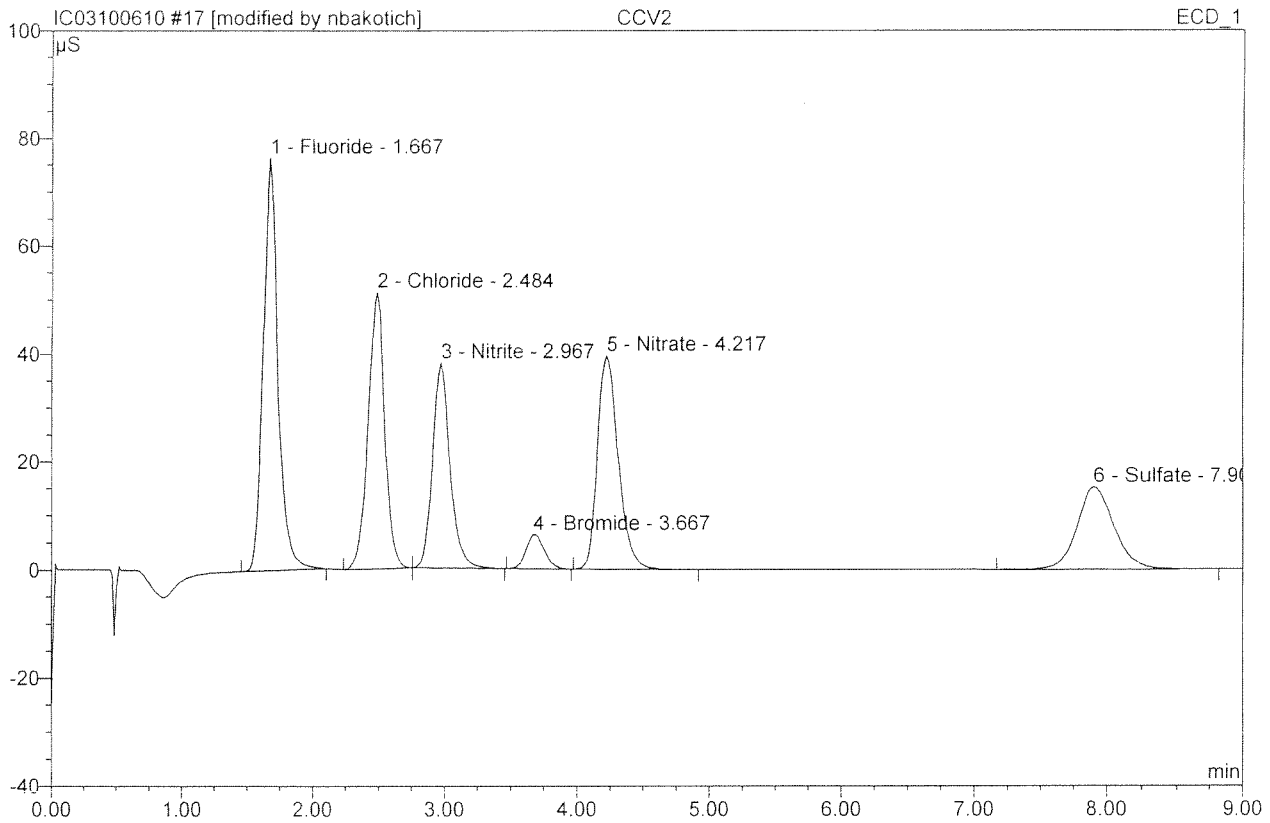


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*H*  
*10/6/10*



<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



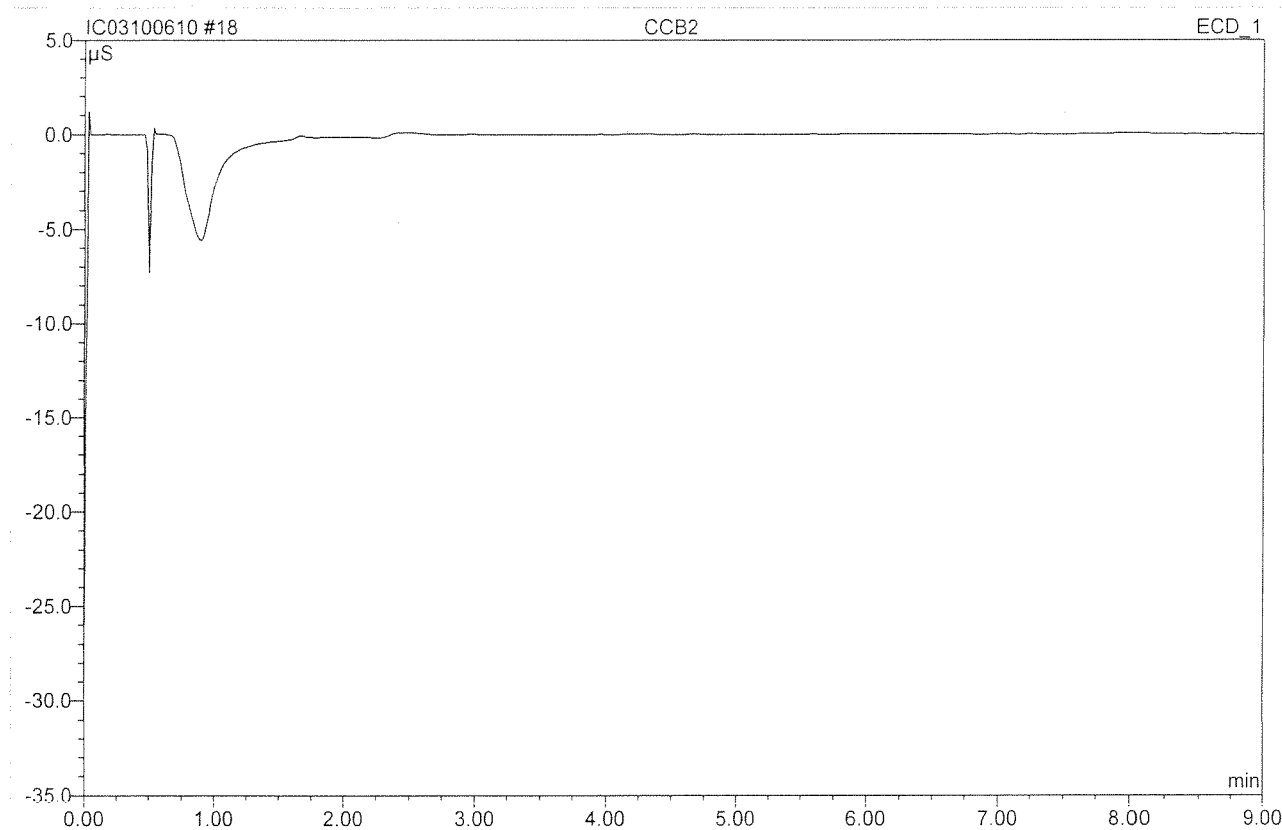
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.481	9.935	27.45	105 5.319	BMB*
2	2.48	Chloride	51.165	7.378	20.39	95 4.753	BMB*
3	2.97	Nitrite	38.026	5.809	16.05	91 1.824	bMB
4	3.67	Bromide	6.329	1.013	2.80	96 1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.94	97 1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.37	97 4.866	BMB
<b>Total:</b>			226.802	36.189	100.00	20.608	

Alter Initials nb

OCT 06 2010

*nb*

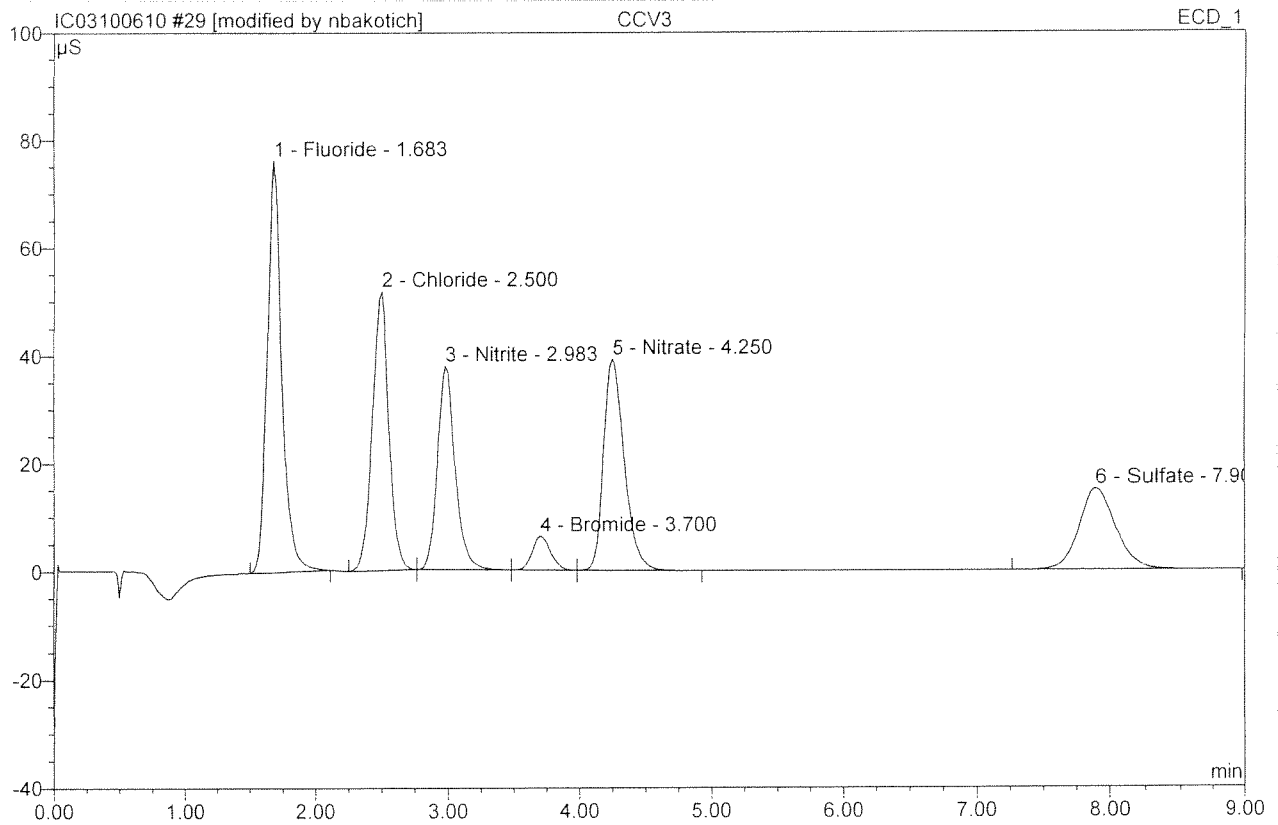
<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*nbakotich*

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.352	9.836	27.22	105 5.266	BMB*
2	2.50	Chloride	51.638	7.422	20.54	96 4.781	BMB*
3	2.98	Nitrite	37.837	5.849	16.19	92 1.837	bMb
4	3.70	Bromide	6.328	1.023	2.83	97 1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.91	97 1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.31	97 4.835	BMB
<b>Total:</b>			226.475	36.128	100.00	20.576	

After Initials nb

OCT 06 2010

*nb*

default/Integration

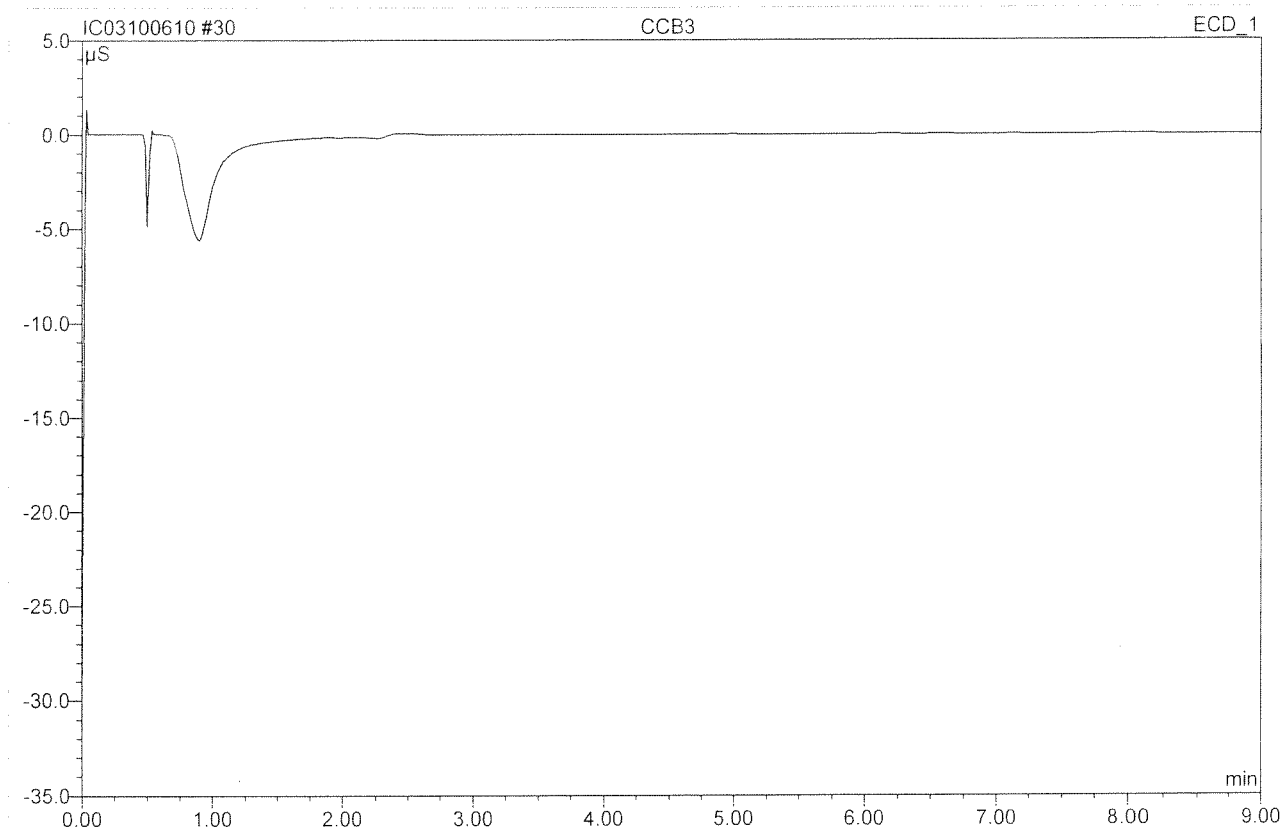
- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

### 30 CCB3

#### CCB3

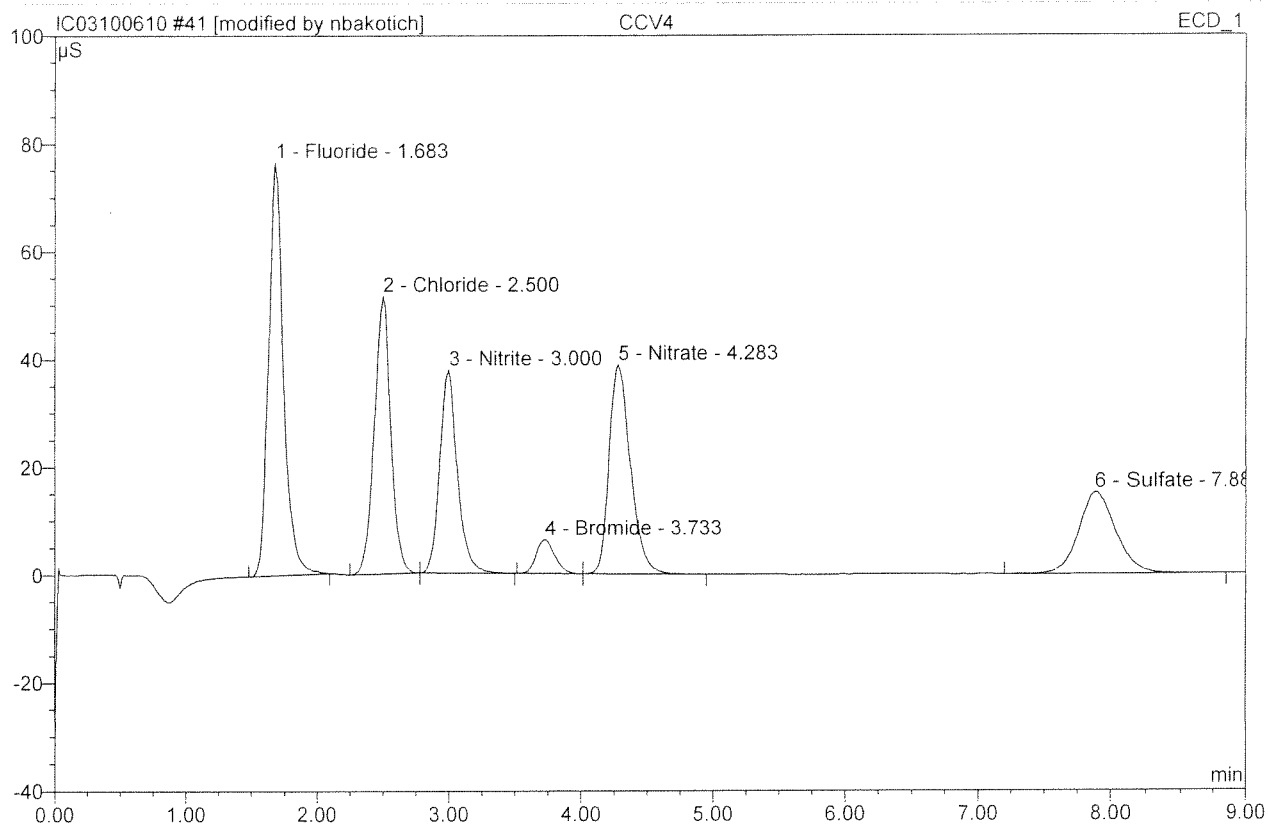
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*K*  
*10/6/10*

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.621	9.971	27.38	107 5.338	BMB*
2	2.50	Chloride	51.511	7.452	20.46	96 4.801	BMB*
3	3.00	Nitrite	37.649	5.811	15.96	92 1.825	bMB
4	3.73	Bromide	6.284	1.024	2.81	97 1.933	BMB
5	4.28	Nitrate	38.842	7.306	20.06	98 1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.33	98 4.883	BMB
<b>Total:</b>			226.049	36.419	100.00	20.737	

After Initials nb

OCT 06 2010

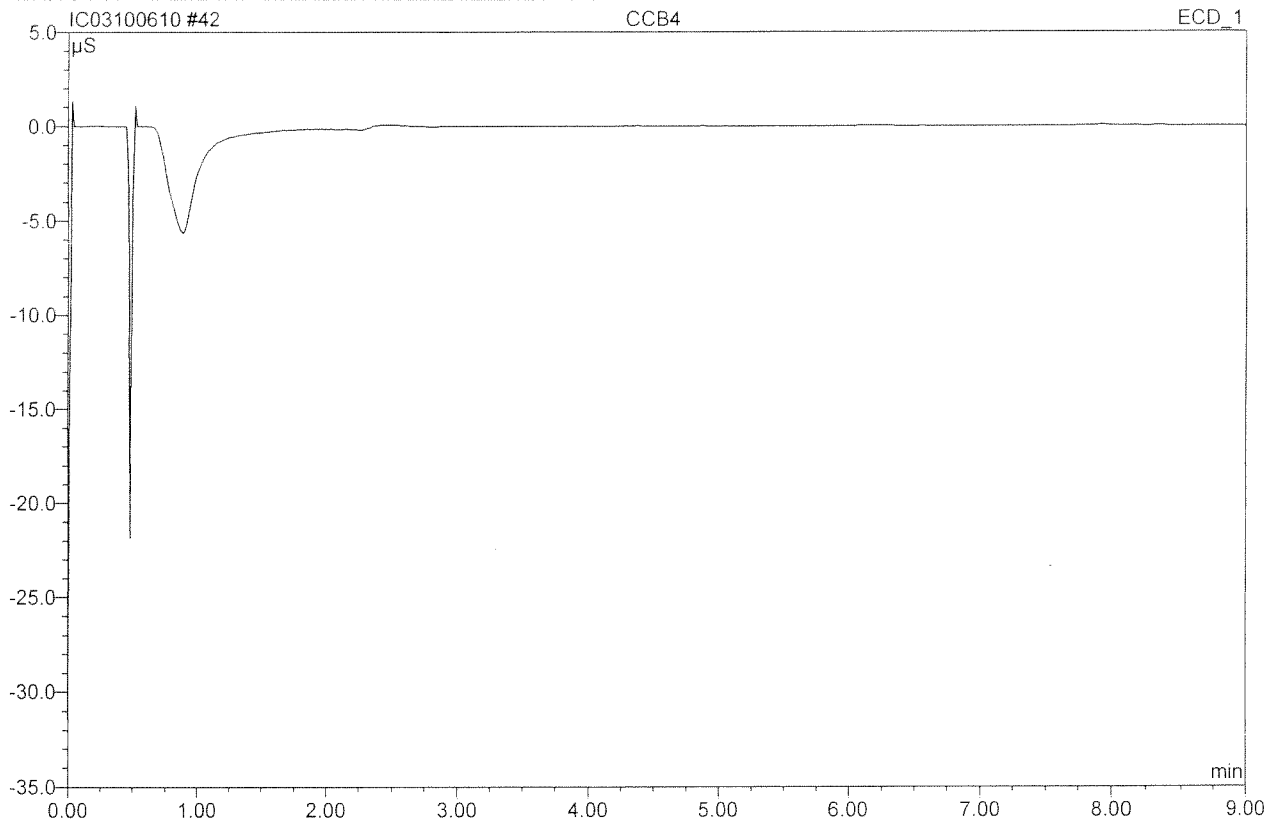
*nbakotich*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

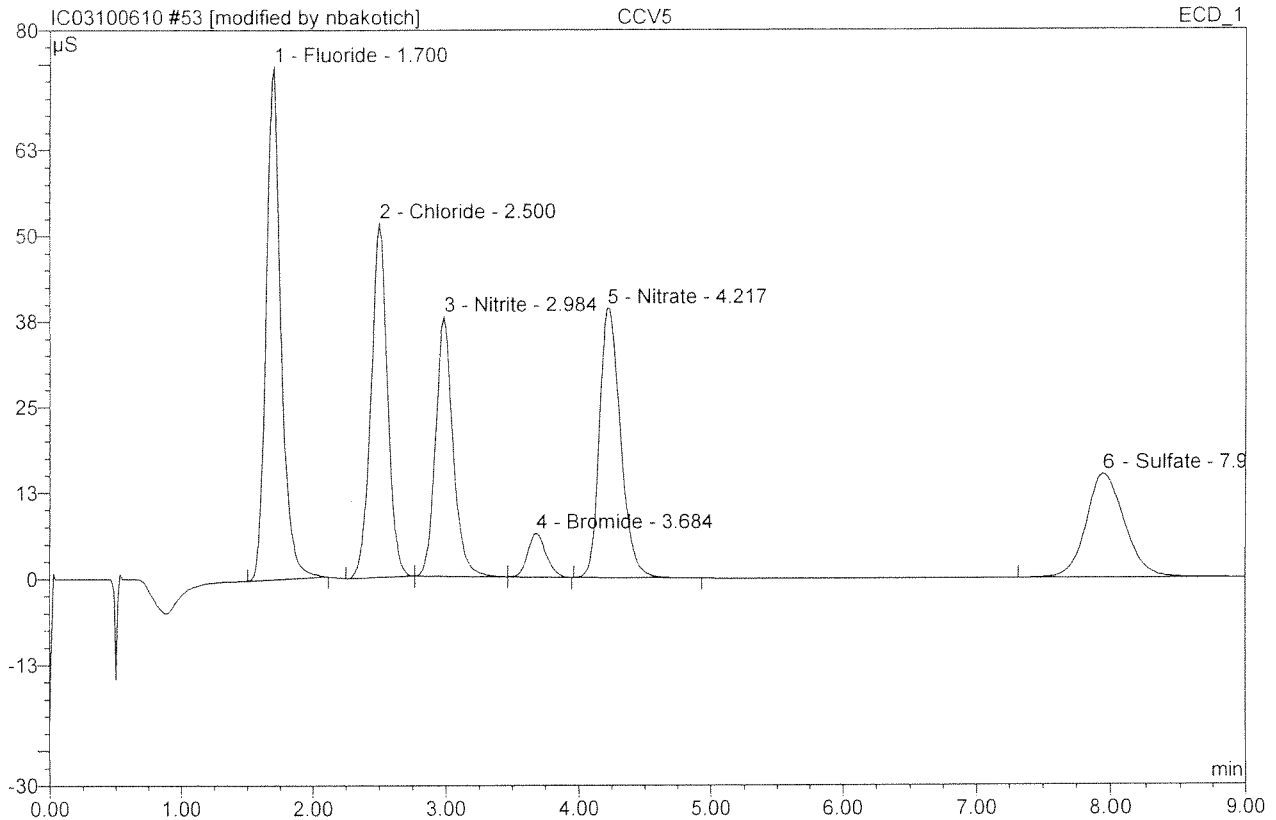
<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:15	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K. [Signature]*

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.796	9.803	27.24	100 5.249	BMB*
2	2.50	Chloride	51.686	7.355	20.44	95 4.738	BMB*
3	2.98	Nitrite	37.927	5.786	16.08	91 1.817	bMB
4	3.68	Bromide	6.355	1.014	2.82	96 1.914	bMB
5	4.22	Nitrate	39.294	7.218	20.06	97 1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.36	97 4.833	BMB
<b>Total:</b>			225.182	35.982	100.00	20.484	

After Initials nb

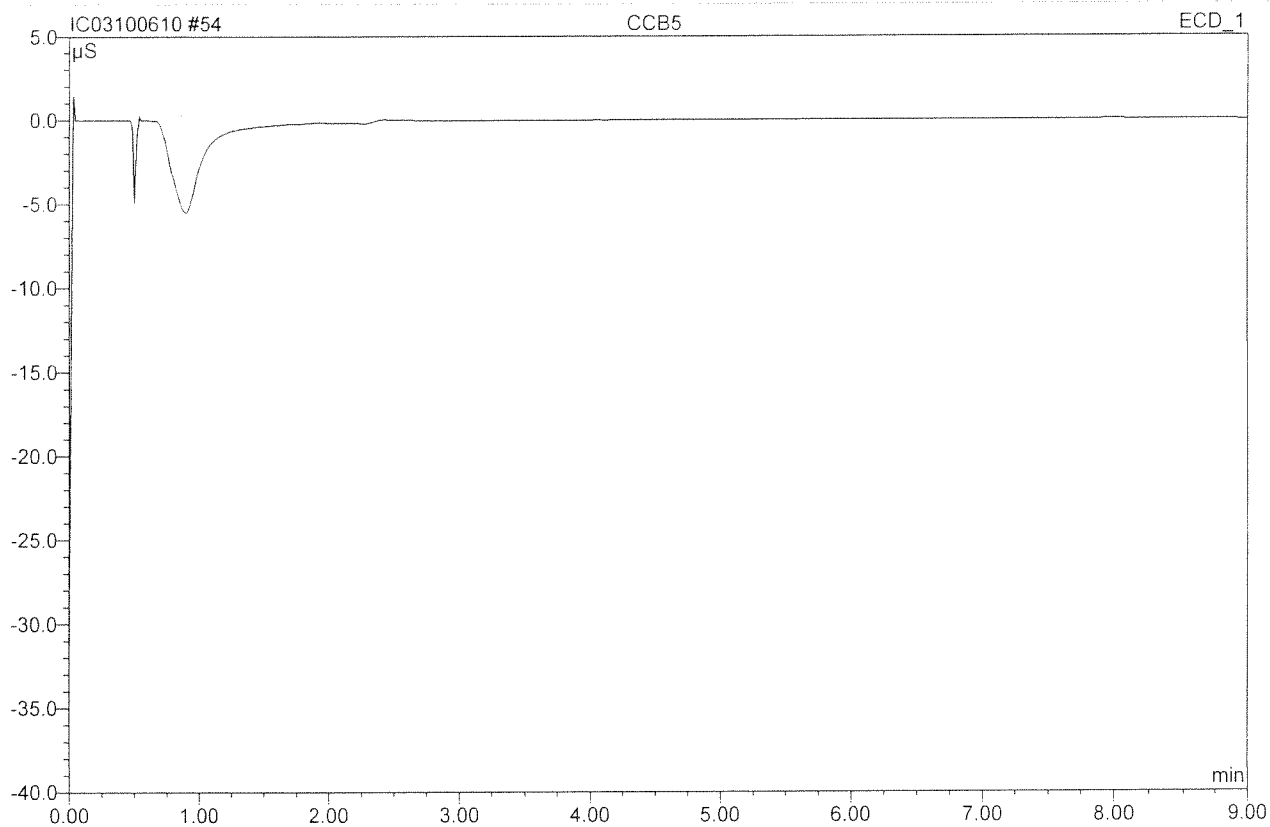
OCT 07 2010

*dk*

# 54 CCB5

## CCB5

Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

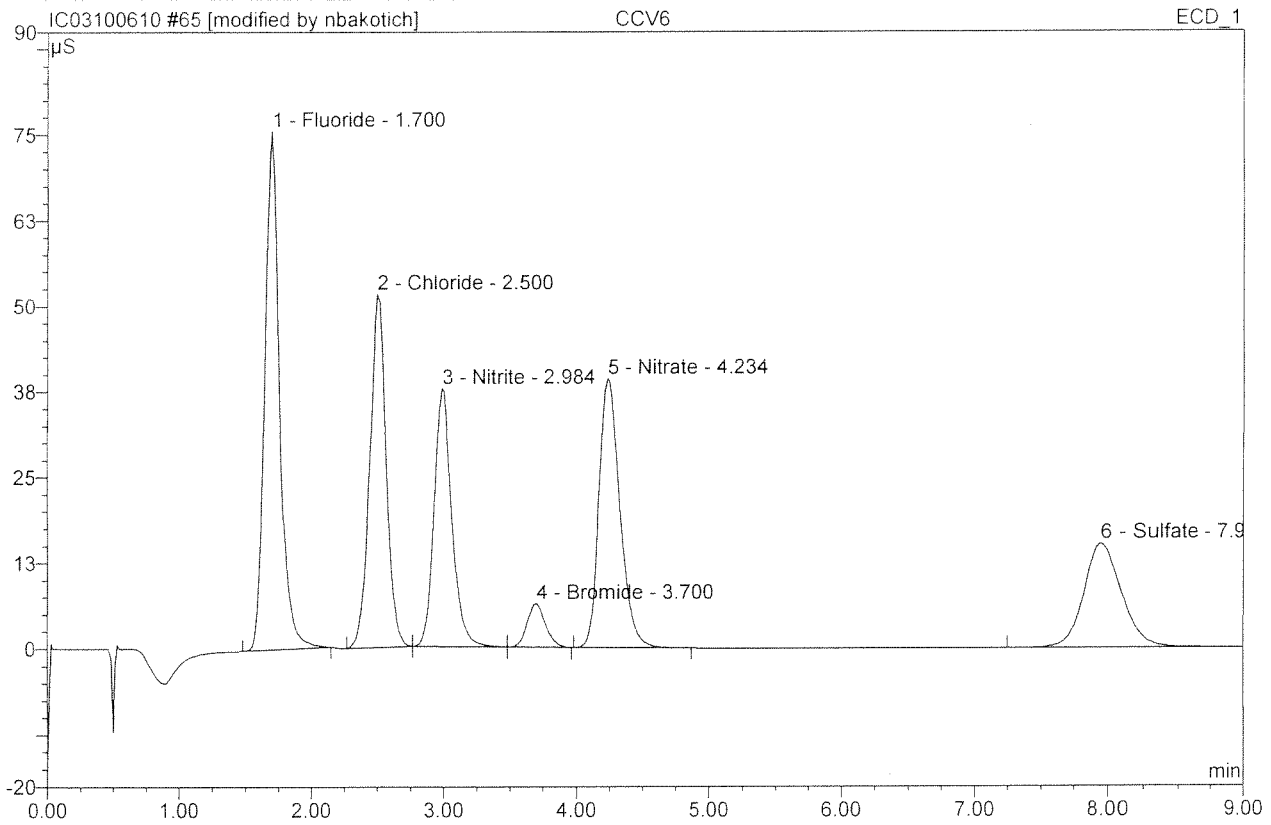


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Kapell*



<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



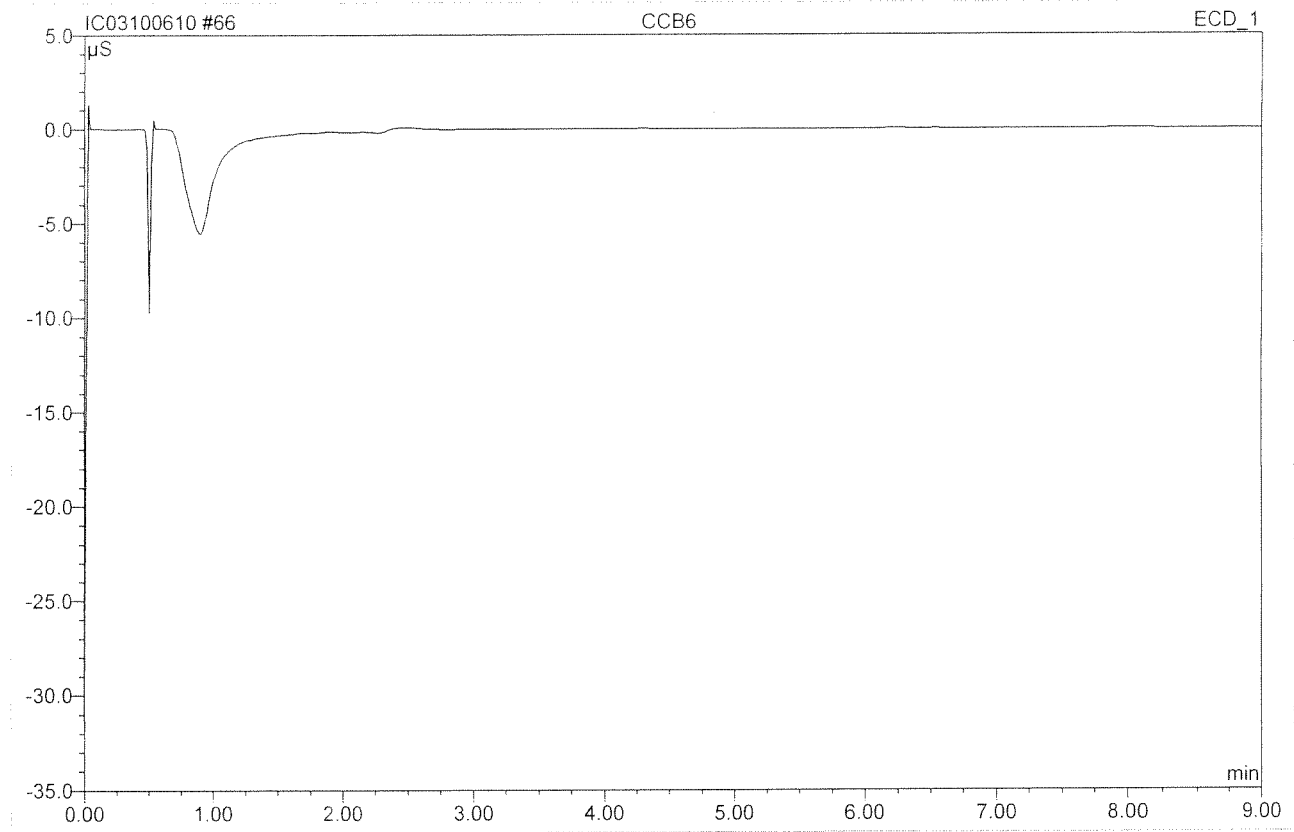
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.639	9.889	27.36	106 5.295	BMB*
2	2.50	Chloride	51.552	7.375	20.41	85 4.751	BMb*
3	2.98	Nitrite	37.632	5.836	16.15	92 1.833	bMb
4	3.70	Bromide	6.321	1.017	2.81	96 1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.91	97 1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.36	47 4.858	BMB
<b>Total:</b>			225.622	36.144	100.00	20.583	

After Initials nb

OCT 07 2010

KT 10/7/10

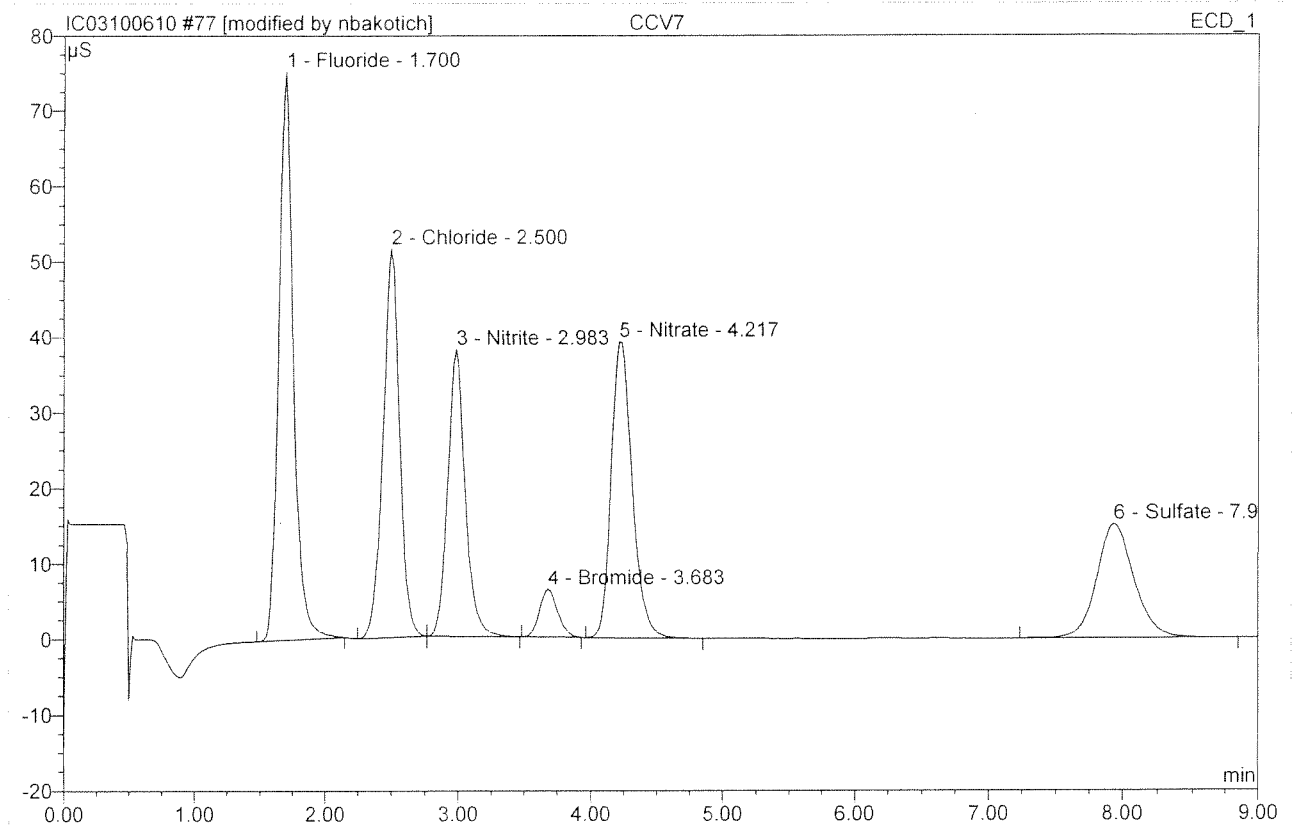
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K. Wolfe*

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.379	9.799	27.20	105 5.246	BMB*
2	2.50	Chloride	51.460	7.403	20.55	95 4.769	BMB*
3	2.98	Nitrite	37.983	5.802	16.11	91 1.822	bMB*
4	3.68	Bromide	6.348	1.012	2.81	96 1.910	BMB*
5	4.22	Nitrate	39.249	7.207	20.01	97 1.931	BMB*
6	7.93	Sulfate	15.146	4.801	13.33	97 4.828	BMB
<b>Total:</b>			225.565	36.023	100.00	20.506	

After Initials     

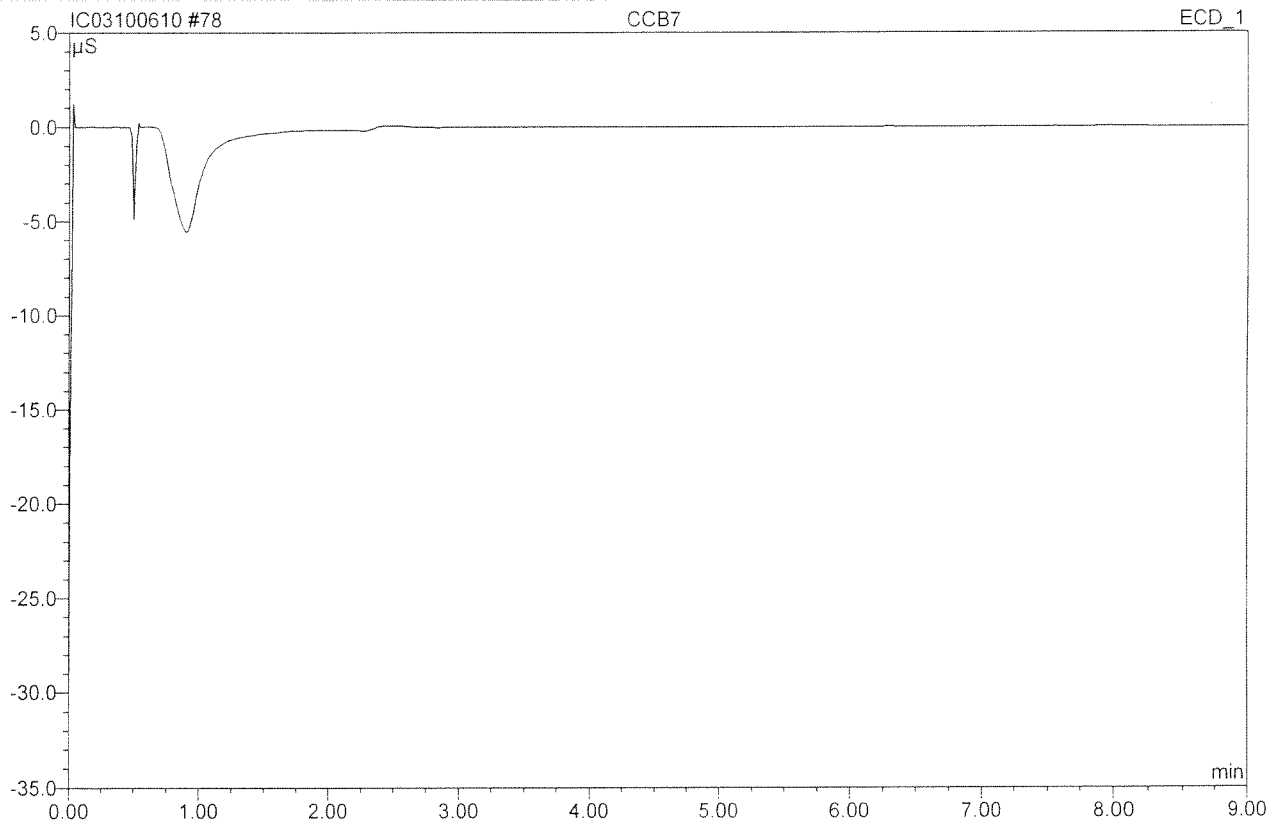
*Handwritten signature/initials*

OCT 07 2010

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

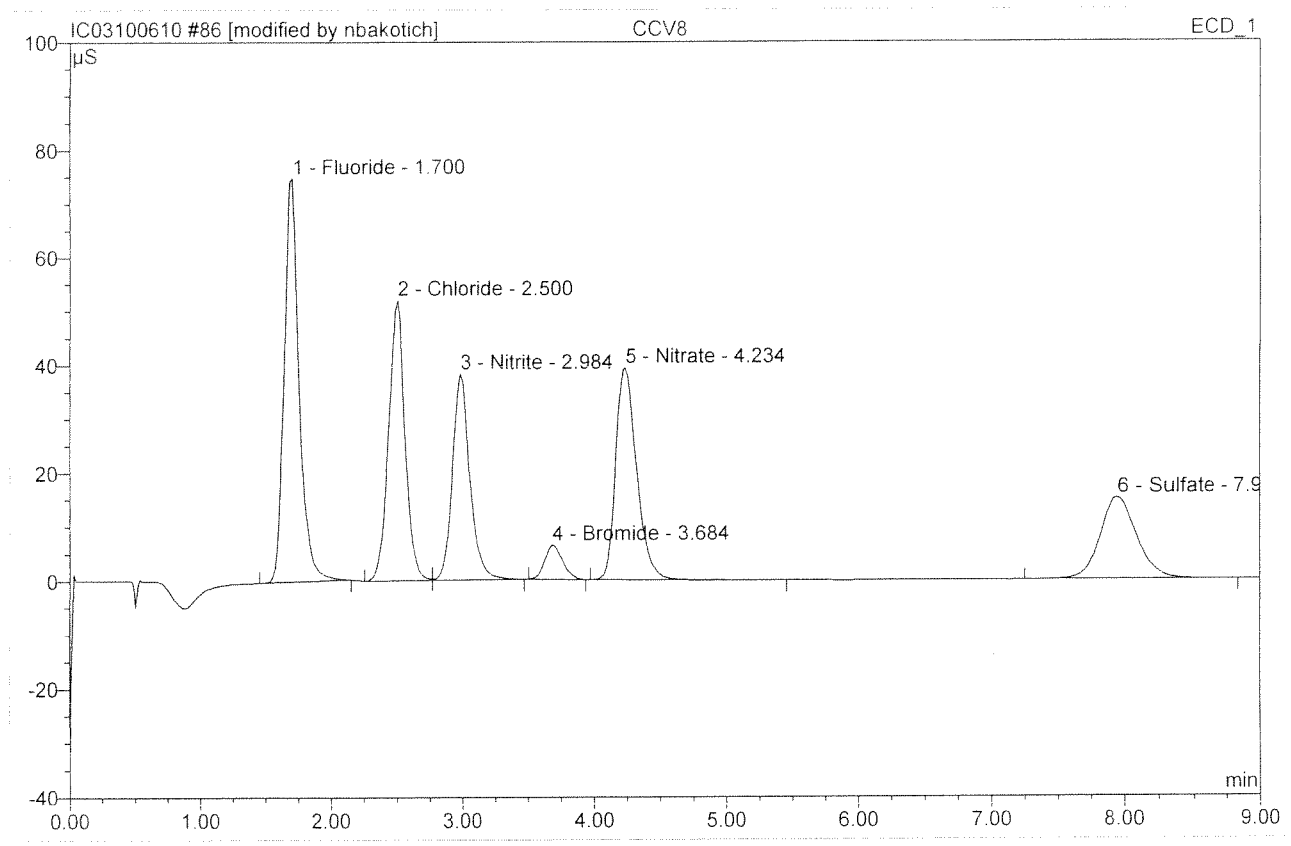
<b>78 CCB7</b>			
<b>CCB7</b>			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	77	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	74.858	9.853	27.19	100 5.275	BMB*
2	2.50	Chloride	51.883	7.456	20.57	96 4.803	BM *
3	2.98	Nitrite	38.232	5.908	16.30	93 1.855	MB*
4	3.68	Bromide	6.335	1.006	2.77	95 1.898	BMB*
5	4.23	Nitrate	39.347	7.204	19.88	97 1.930	BMB*
6	7.95	Sulfate	15.181	4.814	13.28	97 4.842	BMB
<b>Total:</b>			225.835	36.241	100.00	20.603	

After Initials AB

OCT 07 2010

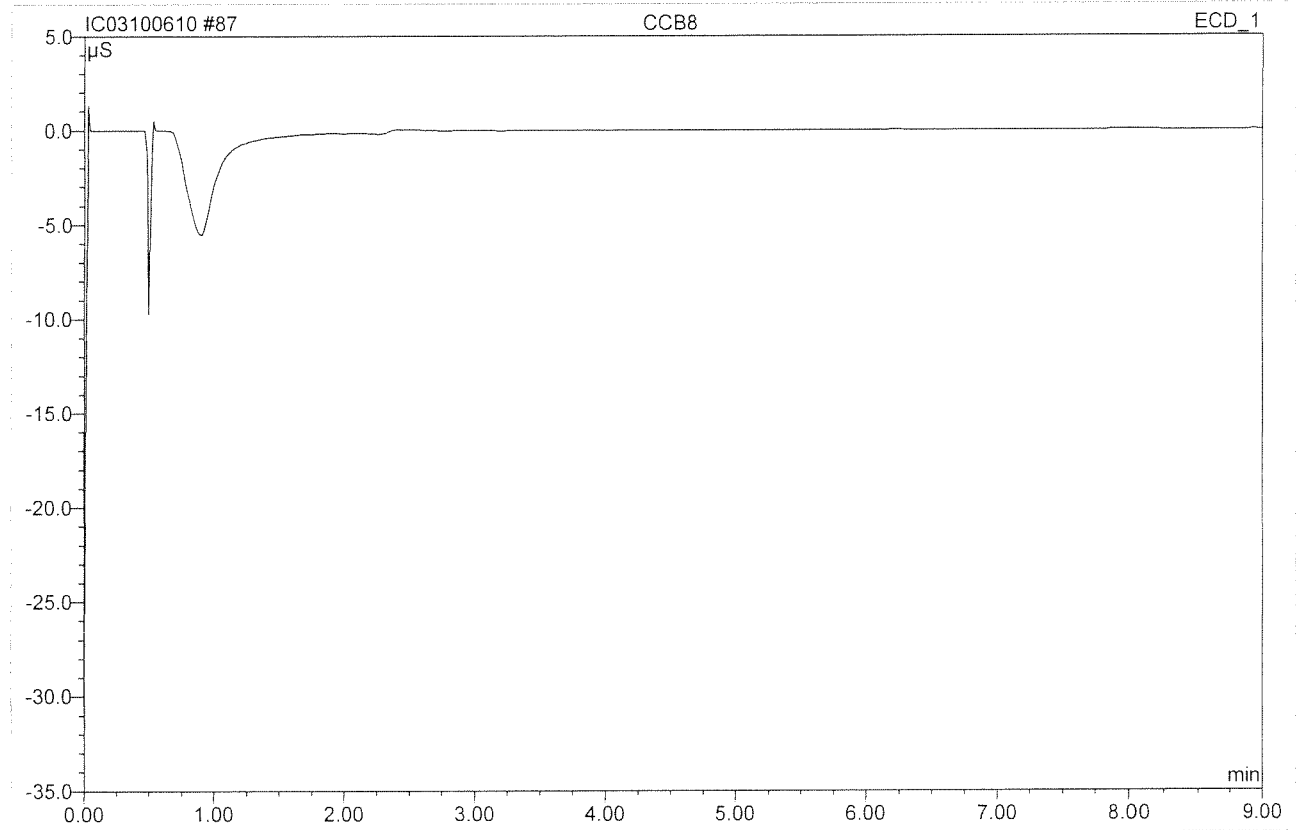
*K. Bakotich*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

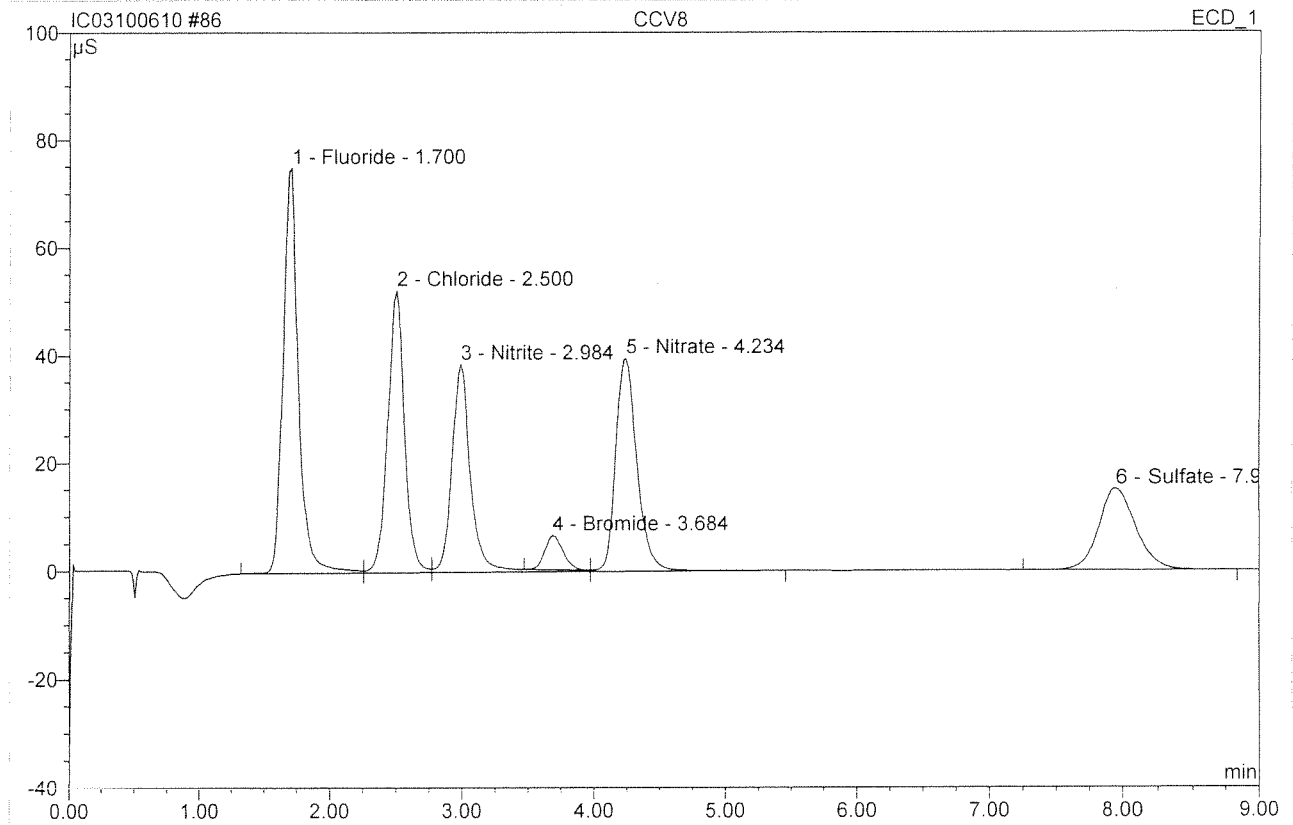
<b>87 CCB8</b>			
<b>CCB8</b>			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	82	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

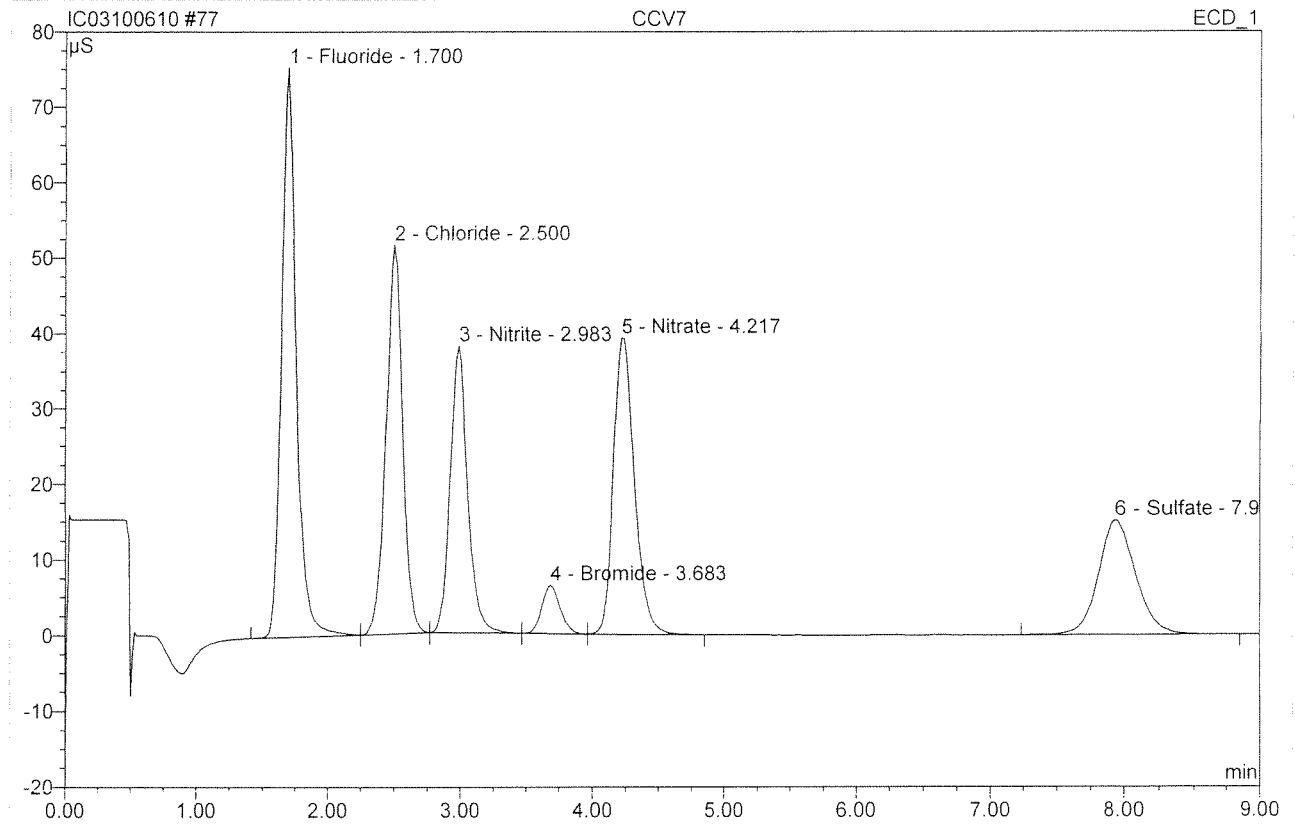


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.160	10.177	27.07	5.449	BM
2	2.50	Chloride	52.327	7.686	20.44	4.951	M
3	2.98	Nitrite	38.704	6.452	17.16	2.026	M
4	3.68	Bromide	6.367	1.020	2.71	1.925	Rd
5	4.23	Nitrate	39.615	7.446	19.81	1.995	MB
6	7.95	Sulfate	15.181	4.814	12.81	4.842	BMB
<b>Total:</b>			227.355	37.595	100.00	21.188	

Before

OCT 07 2010

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



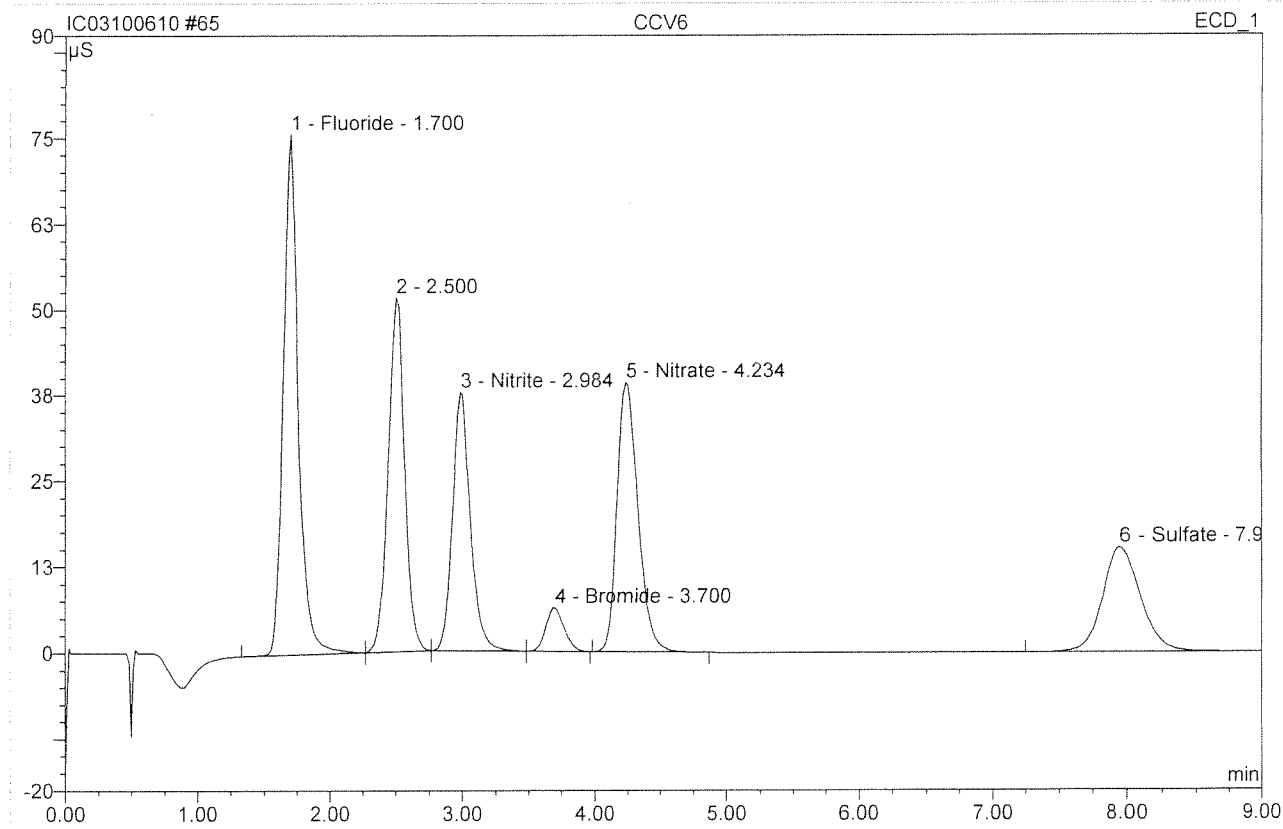
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.470	9.897	27.39	5.299	BMb
2	2.50	Chloride	51.460	7.403	20.49	4.769	bMb
3	2.98	Nitrite	37.983	5.802	16.06	1.822	bMb
4	3.68	Bromide	6.364	1.020	2.82	1.925	bMb
5	4.22	Nitrate	39.249	7.207	19.95	1.931	bMB
6	7.93	Sulfate	15.146	4.801	13.29	4.828	BMB
<b>Total:</b>			225.673	36.130	100.00	20.574	

Before

OCT 07 2010



<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

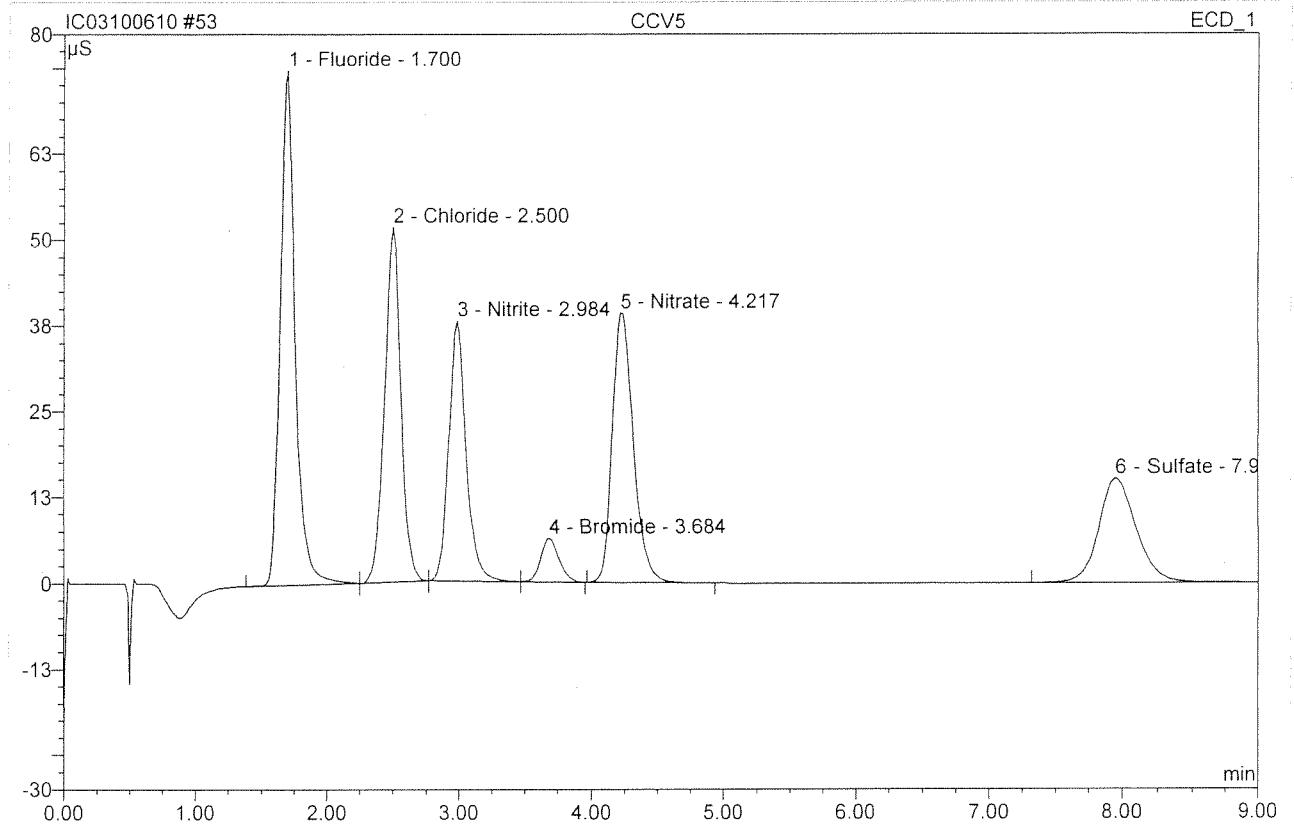


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.759	10.011	27.60	5.360	BMB
2	2.50	n.a.	51.552	7.375	20.34	n.a.	bMb
3	2.98	Nitrite	37.632	5.836	16.09	1.833	bMb
4	3.70	Bromide	6.321	1.017	2.80	1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.85	1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.32	4.858	BMB
<b>Total:</b>			225.742	36.266	100.00	15.897	

Before

OCT 7 2010

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

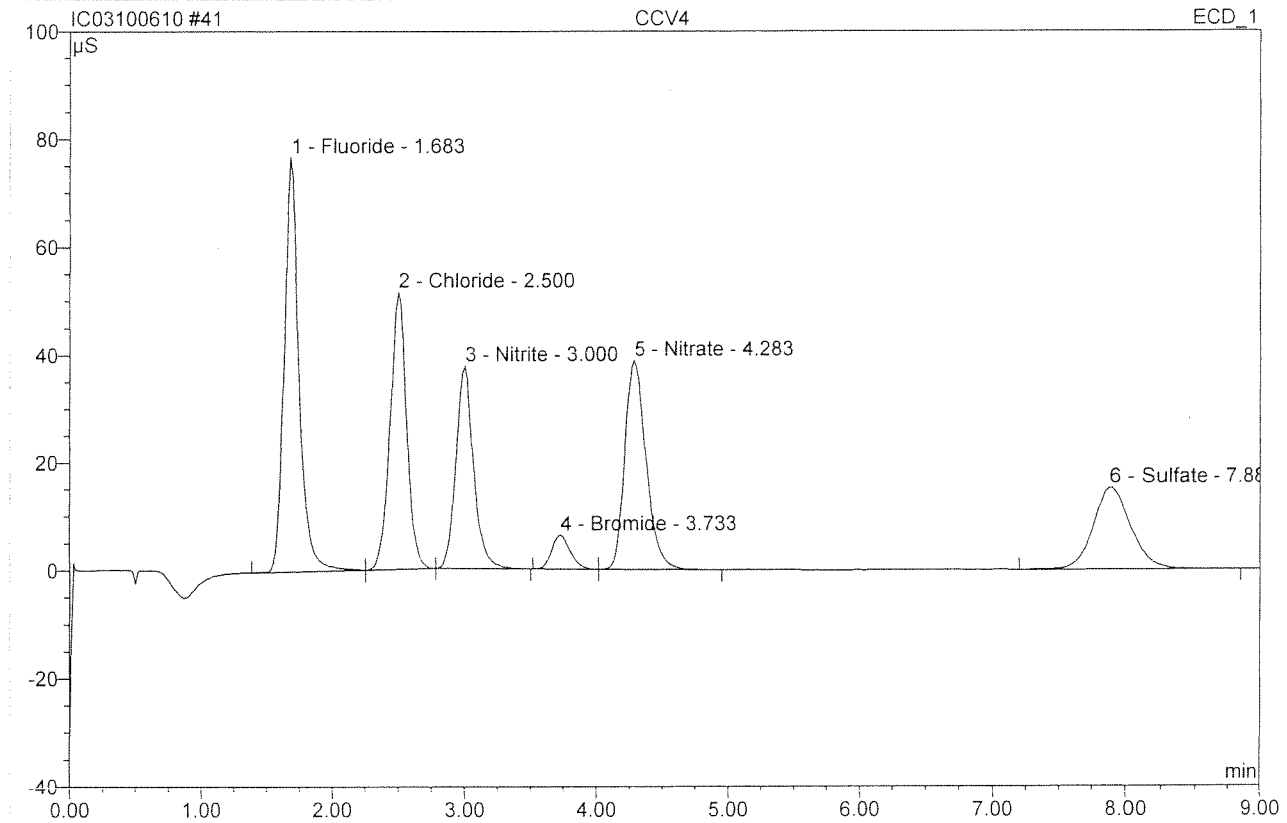


No.	Ret.Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.932	9.941	27.52	5.323	BMB
2	2.50	Chloride	51.686	7.355	20.36	4.738	bMb
3	2.98	Nitrite	37.927	5.786	16.02	1.817	bMb
4	3.68	Bromide	6.355	1.014	2.81	1.914	bMB
5	4.22	Nitrate	39.294	7.218	19.98	1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.30	4.833	BMB
<b>Total:</b>			225.318	36.120	100.00	20.558	

Before

OCT 07 2010

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

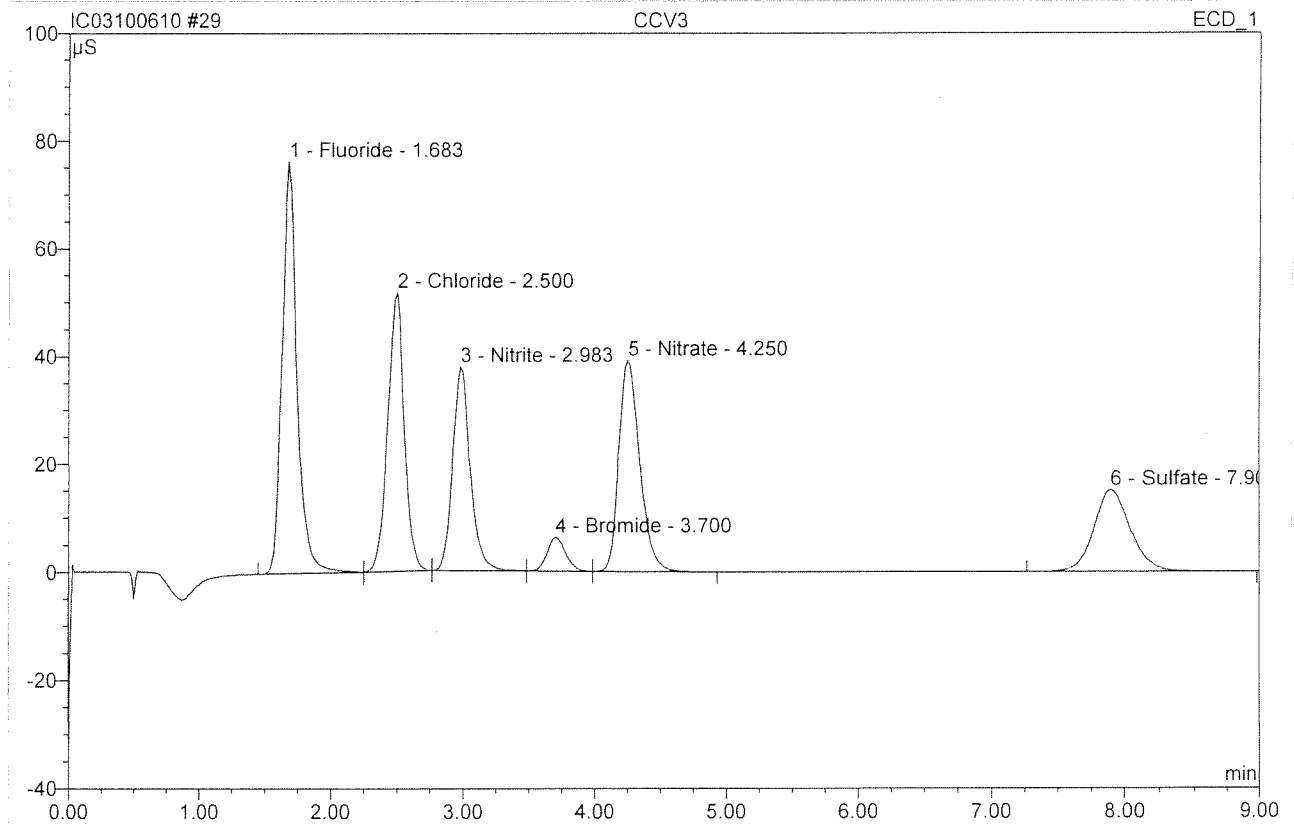


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.763	10.122	27.68	5.419	BMb
2	2.50	Chloride	51.511	7.452	20.38	4.801	bMb
3	3.00	Nitrite	37.649	5.811	15.89	1.825	bMB
4	3.73	Bromide	6.284	1.024	2.80	1.933	BMb
5	4.28	Nitrate	38.842	7.306	19.98	1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.28	4.883	BMB
<b>Total:</b>			226.191	36.570	100.00	20.817	

Before

OCT 06 2010

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

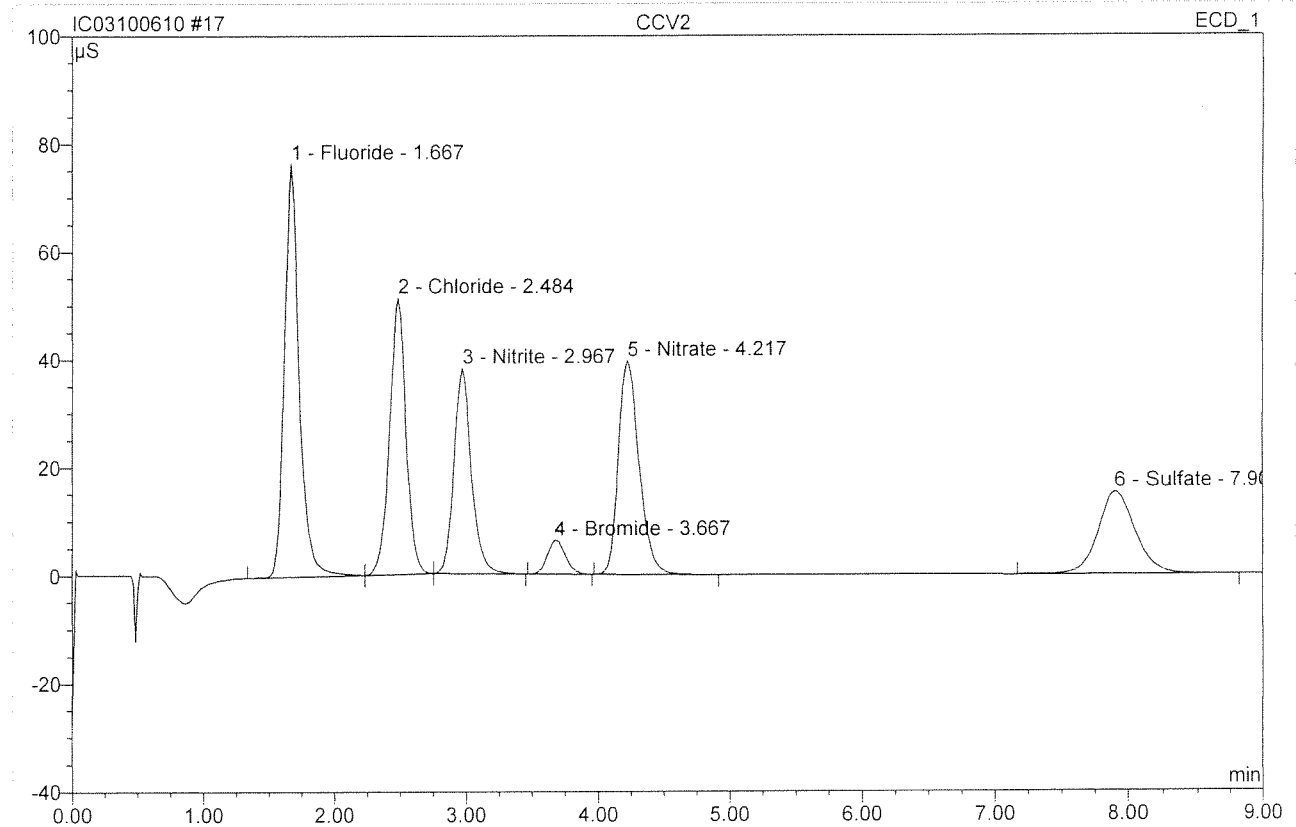


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.476	9.962	27.48	5.334	BMb
2	2.50	Chloride	51.638	7.422	20.47	4.781	bMb
3	2.98	Nitrite	37.837	5.849	16.13	1.837	bMb
4	3.70	Bromide	6.328	1.023	2.82	1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.84	1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.26	4.835	BMB
<b>Total:</b>			226.600	36.255	100.00	20.644	

Before

OCT 06 2010

<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

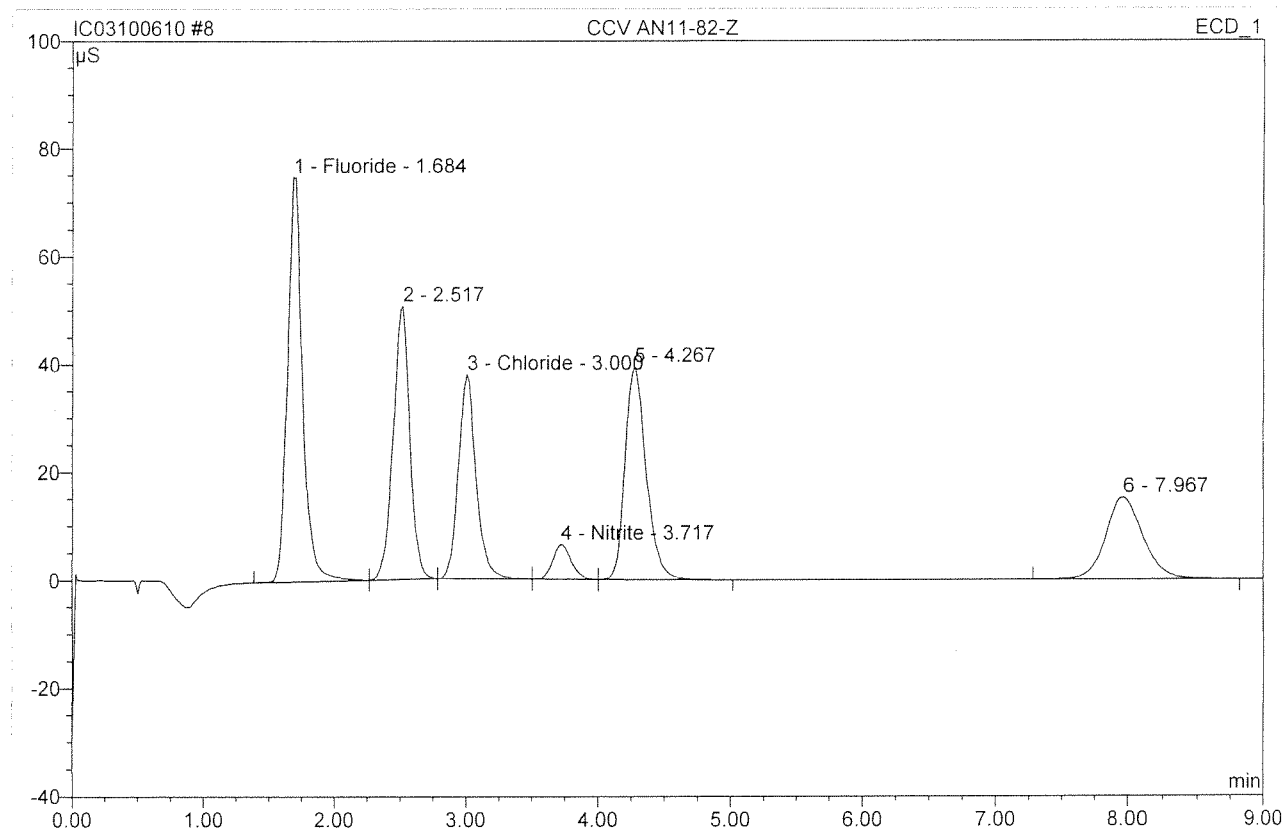


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.614	10.072	27.73	5.393	BMB
2	2.48	Chloride	51.165	7.378	20.31	4.753	bMb
3	2.97	Nitrite	38.026	5.809	15.99	1.824	bMB
4	3.67	Bromide	6.329	1.013	2.79	1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.86	1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.32	4.866	BMB
<b>Total:</b>			226.935	36.325	100.00	20.681	

Before

OCT 06 2010

<b>8 CCV AN11-82-Z</b>			
Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

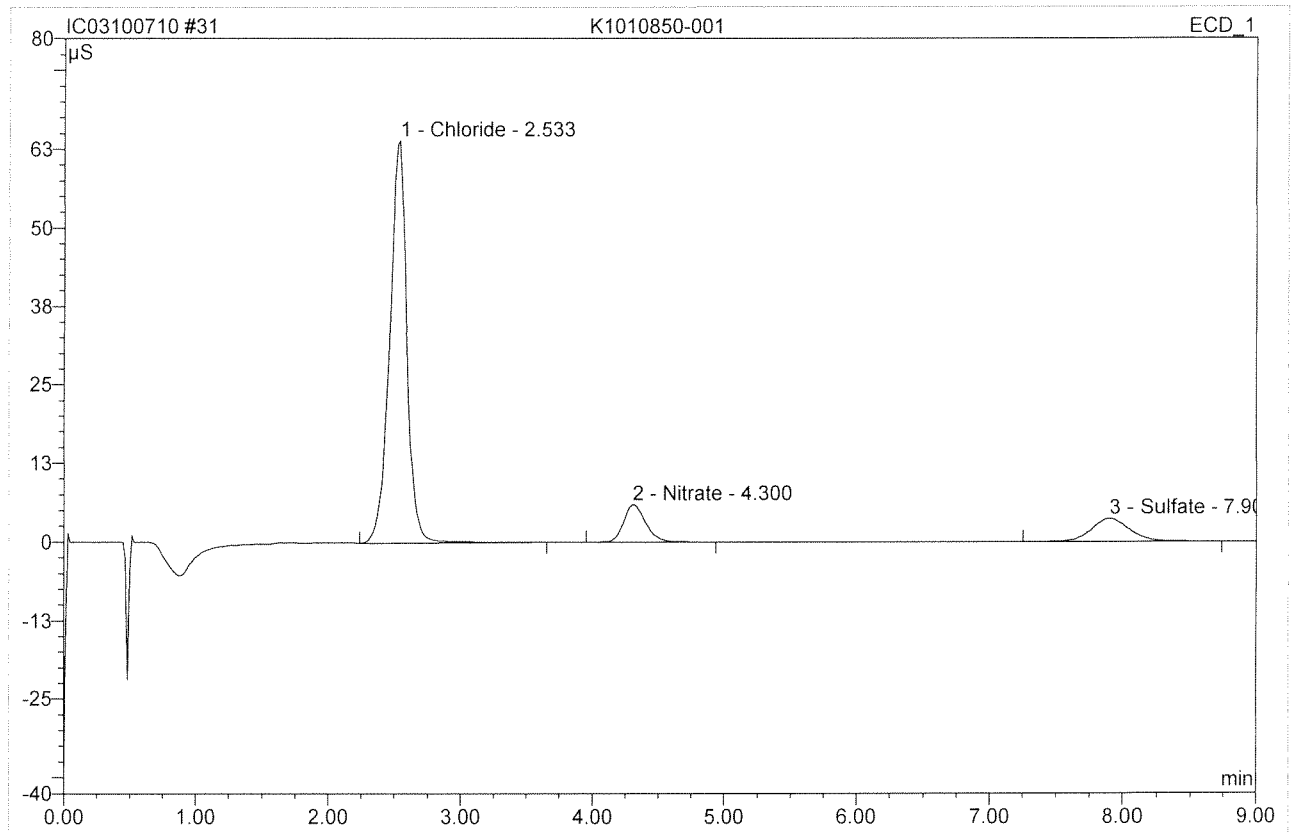


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.906	10.035	27.65	5.373	BMB
2	2.52	n.a.	50.609	7.361	20.28	n.a.	bMb
3	3.00	Chloride	37.787	5.832	16.07	3.757	bMb
4	3.72	Nitrite	6.350	1.019	2.81	0.320	bMb
5	4.27	n.a.	39.378	7.237	19.94	n.a.	bMB
6	7.97	n.a.	15.179	4.809	13.25	n.a.	BMB
<b>Total:</b>			224.208	36.293	100.00	9.450	

Before

OCT 06 2010

<b>31 K1010850-001</b>			
Sample Name:	<b>K1010850-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>30</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>25.0000</b>
Recording Time:	<b>10/7/2010 13:11</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

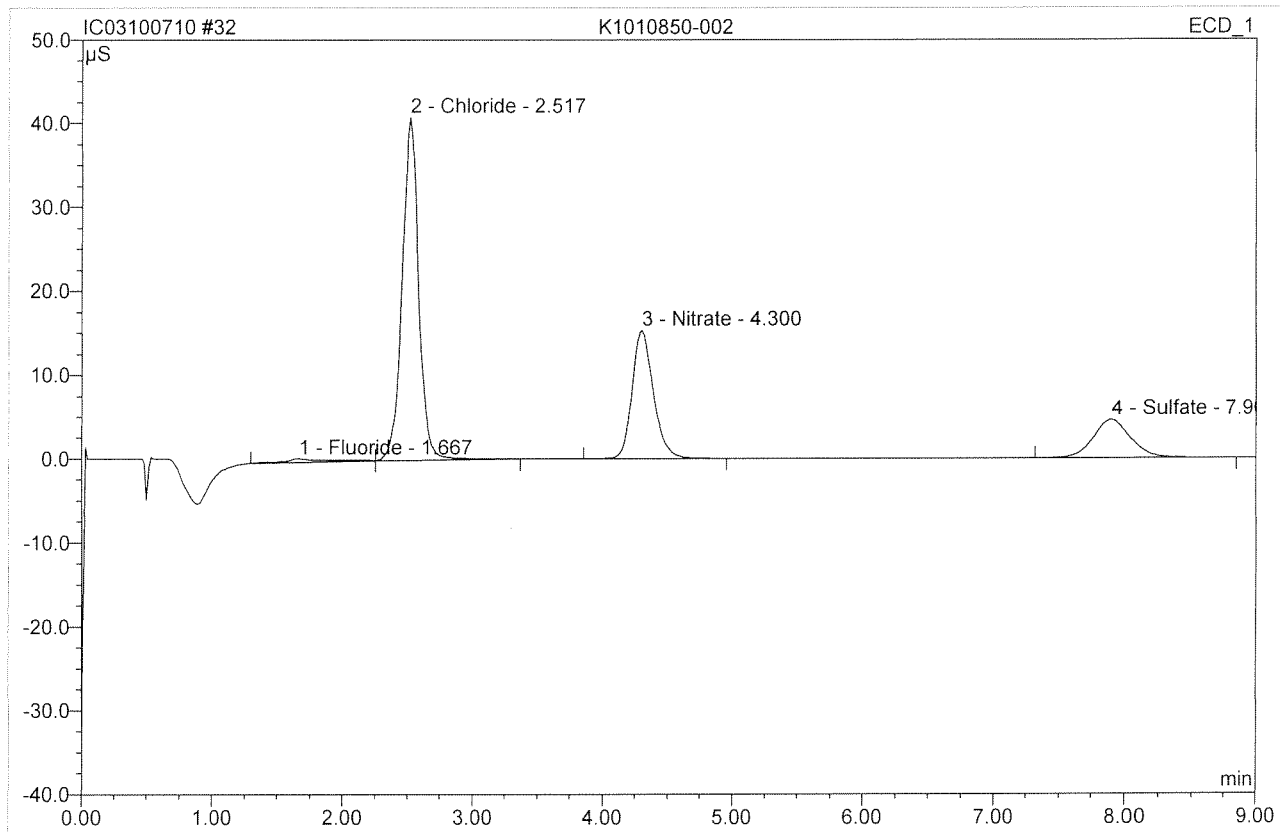


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	64.016	9.609	80.16	154.755	BMB
2	4.30	Nitrate	5.913	1.156	9.64	7.739	BMB
3	7.90	Sulfate	3.695	1.222	10.20	30.731	BMB
<b>Total:</b>			73.625	11.987	100.00	193.226	

*K. Bakotich*

# 32 K1010850-002

Sample Name:	K1010850-002	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/7/2010 13:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

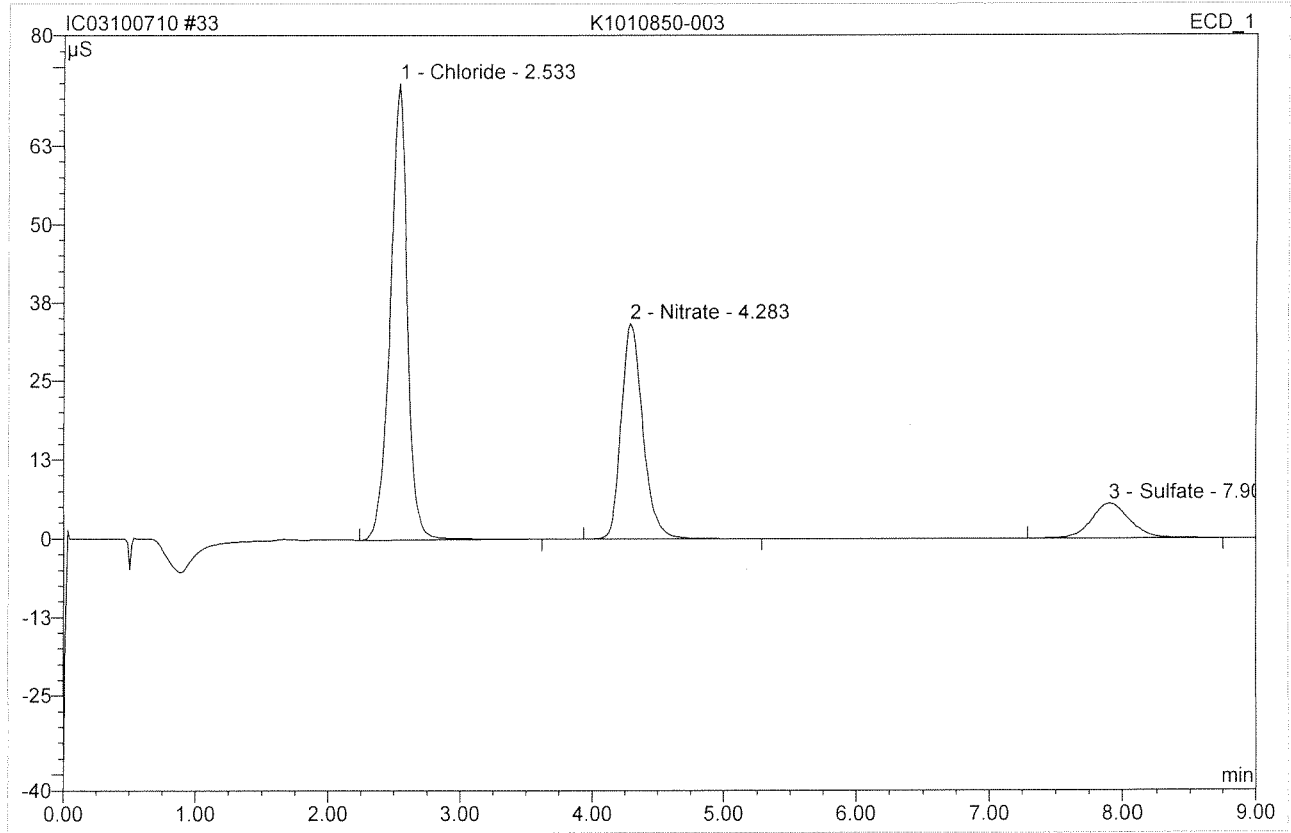


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	0.408	0.133	1.26	1.421	BMB
2	2.52	Chloride	40.874	5.992	56.70	77.208	bMB
3	4.30	Nitrate	15.323	2.933	27.75	15.714	BMB
4	7.90	Sulfate	4.600	1.510	14.29	30.382	BMB
<b>Total:</b>			61.204	10.569	100.00	124.725	

*K. Bakotich*



<b>33 K1010850-003</b>			
Sample Name:	<b>K1010850-003</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>32</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>25.0000</b>
Recording Time:	<b>10/7/2010 13:34</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	72.633	10.881	56.70	175.243	BMB
2	4.28	Nitrate	34.205	6.495	33.84	43.495	BMB
3	7.90	Sulfate	5.533	1.816	9.46	45.648	BMB
<b>Total:</b>			112.372	19.191	100.00	264.386	

*Handwritten signature/initials*

Sequence # EC03100710

Ion Chromatography Data Quality Report  
Inorganics

Run # 219880

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 11.0 ppm	CAS ID # = AN1-33-CC	Expires: <u>7.13.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = ERA#0524-10-04	Expires: <u>12.10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN11-31-14</u>	Expires: <u>10.7.10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = AN1-33-Z	Expires: <u>2.3.11</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = AN1-33-V	Expires: <u>1.22.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = ERA#0524-10-04	Expires: <u>12.10</u>

CCV

	CAS ID # = <u>AN11-52-AA</u>	Expires <u>10.7.10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = AN1-33-M	Expires: <u>10.28.10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = AN1-33-AA	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = AN1-33-N	Expires: <u>10.28.10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = AN1-33-U	Expires: <u>12.22.10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = AN1-33-W	Expires: <u>1.29.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = AN1-33-BB	Expires: <u>2.5.11</u>

Spike

2.0ppm X dilution factor	CAS ID# = <u>AN11-72-EE</u>	Expires <u>10.7.10</u>
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>1.11.11</u>
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>1.11.11</u>
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>1.11.11</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>1.11.11</u>
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>1.11.11</u>
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>1.11.11</u>

Analyst: ab Date: 10.7.10

First Review: J Date: 10.7.10

Final Review: [Signature] Date: 10/10/10



Work Order #: \_\_\_\_\_

Method: \_\_\_\_\_

Analysis: \_\_\_\_\_

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
10/7/10	N.B.	2.5					
	LC5	2.4931					
	10930-1	2.4913					
	-1d	2.4901					
	-1s	2.5348					
	-1sd	2.4786					
	-2	2.4697					
	-3	2.5214					
	-4	2.5192					
	-5	2.4624					
	-6	2.4720					
	-7	2.4671					
	-8	2.5150					

MS= \_\_\_\_\_  
MSD= \_\_\_\_\_  
X= \_\_\_\_\_  
RPD= \_\_\_\_\_  
STD ID # = \_\_\_\_\_  
Comments: \_\_\_\_\_

Prepared By: <u>AB</u>	Date Prepared: <u>10/7/10</u>
Analyzed By: <u>h</u>	Date Analyzed: <u>10/7/10</u>
Reviewed By:	Date Reviewed:

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
11109-1	V				F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)	0.2515		✓
-2					F			
					Cl			
					NO2			
					Br			
					(NO3)	2.515		✓
					SO4			
11102-2	V				F			
					(Cl)			
					(NO2)			✓
					Br			✓
					(NO3)			✓
					(SO4)		✓	
-3		X			F			
					(Cl)			✓
					(NO2)			✓
					Br			✓
					(NO3)			✓
					(SO4)		✓	
-4					F			
					(Cl)			✓
					(NO2)			✓
					Br			✓
					(NO3)			✓
					(SO4)		✓	
-5					F			
					(Cl)			✓
					(NO2)			✓
					Br			✓
					(NO3)			✓
					(SO4)		✓	
-6					F			
					(Cl)			✓
					(NO2)			✓
					Br			✓
					(NO3)			✓
					(SO4)		✓	
11165-1	1				F			
					(Cl)			
					NO2			
					Br			
					(NO3)			✓
					(SO4)		✓	
-2					F			
					(Cl)			
					NO2			
					Br			
					(NO3)			✓
					(SO4)		✓	
-3					F			
					(Cl)	1/5		
					NO2			
					Br			
					(NO3)			✓
					(SO4)		✓	

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
11165-4					F			
					Cl	1/5		✓
					NO2			
					Br			
					NO3 SO4			✓
-5					F			
					Cl	2.5/5		
					NO2			
					Br			
					NO3 SO4			
10936-9					F			
					Cl	1/100 → 1/5		✓
					NO2			
					Br			
					NO3 SO4			
-10					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
-11					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
-12					F			
					Cl			✓
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
10851-5					F			
					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
-6					(SO4)	11100 → 2.5/5		✓
					F			
					Cl	0.25/5		✓
					NO2			
					Br			
10795-1					NO3			
					(SO4)	11100 → 1/5		✓
					F			
					Cl			
					NO2			
-2					Br			
					NO3			
					(SO4)	0.5/5		✓
					F			
					Cl			
10830-1					NO2			
					Br			
					NO3			
					(SO4)	0.20/5		✓
					F			
-2					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
					(SO4)	↓		✓
-3					F			
					Cl	0.20/5		✓
					NO2			
					Br			
					NO3			
10899-1					(SO4)	↓		✓
					F			
					Cl	11100		✓
					NO2			
					Br			
					NO3			
					(SO4)	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			

Sequence: IC03100710  
Operator: nbakotich

Page 1 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lvl2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/lvl3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/lvl4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/lvl5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/lvl6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/lvl7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/lvl1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-AA	Unknown	8	200.0	epa300	epa300	Finished	10/7/2010 8:42:17 AM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/7/2010 8:53:45 AM
10	NO2 AN11-31-H	Unknown	10	200.0	epa300	epa300	Finished	10/7/2010 9:05:12 AM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:16:41 AM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:28:08 AM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/7/2010 9:39:36 AM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/7/2010 9:51:04 AM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/7/2010 10:02:32 AM
16	SPKCHK AN11-72-EE	Unknown	15	200.0	epa300	epa300	Finished	10/7/2010 10:13:59 AM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/7/2010 10:25:27 AM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/7/2010 10:36:55 AM
19	K1011109-001	Unknown	18	200.0	epa300	epa300	Finished	10/7/2010 10:48:22 AM
20	K1011109-002	Unknown	19	200.0	epa300	epa300	Finished	10/7/2010 10:59:50 AM
21	K1009074-001	Unknown	20	200.0	epa300	epa300	Finished	10/7/2010 11:11:18 AM
22	K1010851-005	Unknown	21	200.0	epa300	epa300	Finished	10/7/2010 11:22:46 AM
23	K1010851-006	Unknown	22	200.0	epa300	epa300	Finished	10/7/2010 11:34:13 AM
24	K1010851-005	Unknown	23	200.0	epa300	epa300	Finished	10/7/2010 11:45:41 AM
25	K1010851-006	Unknown	24	200.0	epa300	epa300	Finished	10/7/2010 11:57:09 AM
26	K1010795-001	Unknown	25	200.0	epa300	epa300	Finished	10/7/2010 12:08:36 PM
27	K1010795-002	Unknown	26	200.0	epa300	epa300	Finished	10/7/2010 12:20:04 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/7/2010 12:31:31 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/7/2010 12:43:00 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/7/2010 12:54:27 PM
31	K1010850-001	Unknown	30	200.0	epa300	epa300	Finished	10/7/2010 1:11:19 PM
32	K1010850-002	Unknown	31	200.0	epa300	epa300	Finished	10/7/2010 1:22:48 PM
33	K1010850-003	Unknown	32	200.0	epa300	epa300	Finished	10/7/2010 1:34:15 PM
34	K1010899-001	Unknown	33	200.0	epa300	epa300	Finished	10/7/2010 1:45:42 PM
35	K1010899-001	Unknown	34	200.0	epa300	epa300	Finished	10/7/2010 1:57:11 PM
36	K1010936-009	Unknown	35	200.0	epa300	epa300	Finished	10/7/2010 2:08:38 PM
37	RB	Unknown	36	200.0	epa300	epa300	Finished	10/7/2010 2:20:06 PM
38	K1010936-010	Unknown	37	200.0	epa300	epa300	Finished	10/7/2010 2:31:34 PM
39	RB	Unknown	38	200.0	epa300	epa300	Finished	10/7/2010 2:43:02 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/7/2010 2:54:30 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/7/2010 3:05:58 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/7/2010 3:17:25 PM



Sequence: IC03100710  
Operator: nbakotich

Page 2 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	std2/vl2	1.0000	
2	std3/vl3	1.0000	
3	std4/vl4	1.0000	
4	std5/vl5	1.0000	
5	std6/vl6	1.0000	
6	std7/vl7	1.0000	
7	std1/vl1	1.0000	
8	CCV AN11-82-AA	1.0000	
9	CCB1	1.0000	
10	NO2 AN11-31-H	25.0000	NO2
11	MB	1.0000	MB
12	NO3 AN1-33-V	20.0000	NO3
13	CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	F AN 1-33-Y	2.0000	F
15	Br AN1-33-L	1.0000	Br
16	SPKCHK AN11-72-EE	1.0000	
17	CCV2	1.0000	CCV2
18	CCB2	1.0000	CCB2
19	K1011109-001	20.0000	
20	K1011109-002	2.0000	
21	K1009074-001	10.0000	F
22	K1010851-005	200.0000	
23	K1010851-006	500.0000	
24	K1010851-005	20.0000	
25	K1010851-006	20.0000	
26	K1010795-001	5.0000	
27	K1010795-002	10.0000	
28	RB	1.0000	
29	CCV3	1.0000	CCV3
30	CCB3	1.0000	CCB3
31	K1010850-001	25.0000	
32	K1010850-002	20.0000	
33	K1010850-003	25.0000	
34	K1010899-001	100.0000	
35	K1010899-001	10.0000	
36	K1010936-009	500.0000	
37	RB	1.0000	
38	K1010936-010	500.0000	
39	RB	1.0000	
40	RB	1.0000	
41	CCV4	1.0000	CCV4
42	CCB4	1.0000	CCB4

Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
 Last Update: 10/7/2010 5:12:48 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1011162-002	Unknown	42	200.0	epa300	epa300	Finished	10/7/2010 3:54:53 PM
44	K1011162-003	Unknown	43	200.0	epa300	epa300	Finished	10/7/2010 4:06:20 PM
45	K1011162-004	Unknown	44	200.0	epa300	epa300	Finished	10/7/2010 4:17:48 PM
46	K1011162-005	Unknown	45	200.0	epa300	epa300	Finished	10/7/2010 4:29:16 PM
47	K1011162-006	Unknown	46	200.0	epa300	epa300	Finished	10/7/2010 4:40:43 PM
48	K1011165-001	Unknown	47	200.0	epa300	epa300	Finished	10/7/2010 4:52:11 PM
49	K1011165-002	Unknown	48	200.0	epa300	epa300	Finished	10/7/2010 5:03:39 PM
50	K1011165-003	Unknown	49	200.0	epa300	epa300	Finished	10/7/2010 5:15:06 PM
51	K1011165-004	Unknown	50	200.0	epa300	epa300	Finished	10/7/2010 5:26:34 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/7/2010 5:38:02 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/7/2010 5:49:30 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/7/2010 6:00:58 PM
55	K1011165-005	Unknown	54	200.0	epa300	epa300	Finished	10/7/2010 6:12:26 PM
56	K1011162-003	Unknown	55	200.0	epa300	epa300	Finished	10/7/2010 6:23:53 PM
57	K1011162-003	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 6:35:21 PM
58	K1011162-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 6:46:49 PM
59	MB DEXT	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 6:58:17 PM
60	LCS DEXT	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 7:09:44 PM
61	K1010936-011	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 7:21:12 PM
62	RB	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 7:32:40 PM
63	K1010936-012	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 7:44:08 PM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 7:55:36 PM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 8:07:04 PM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 8:18:31 PM
67	K1010936-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 8:29:59 PM
68	RB	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 8:41:27 PM
69	RB	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 8:52:55 PM
70	K1010936-001	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 9:04:23 PM
71	RB	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 9:15:51 PM
72	RB	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 9:27:18 PM
73	K1010936-001	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 9:38:46 PM
74	RB	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 9:50:13 PM
75	RB	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 10:01:41 PM
76	CCV7	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 10:13:09 PM
77	CCB7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 10:24:36 PM
78	K1010936-001	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 10:36:04 PM
79	RB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 10:47:32 PM
80	RB	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 10:59:00 PM
81	K1010936-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 11:10:28 PM
82	RB	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 11:21:56 PM
83	K1010936-003	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 11:33:23 PM
84	RB	Unknown	83	200.0	epa300	epa300	Finished	10/7/2010 11:44:52 PM

Sequence: IC03100710  
Operator: nbakofich

Page 4 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

















No.	Name	Dil. Factor	Comment
43	 K1011162-002	2.0000	
44	 K1011162-003	2.0000	
45	 K1011162-004	2.0000	
46	 K1011162-005	2.0000	
47	 K1011162-006	2.0000	
48	 K1011165-001	2.0000	F
49	 K1011165-002	2.0000	F
50	 K1011165-003	5.0000	F
51	 K1011165-004	5.0000	F
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1011165-005	2.0000	
56	 K1011162-003	2.0000	D
57	 K1011162-003	5.0000	MS
58	 K1011162-003	5.0000	MSD
59	 MB DEXT	1.0000	
60	 LCS DEXT	10.0000	
61	 K1010936-011	500.0000	
62	 RB	1.0000	
63	 K1010936-012	500.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1010936-001	50.0000	
68	 RB	1.0000	
69	 RB	1.0000	
70	 K1010936-001	50.0000	D
71	 RB	1.0000	
72	 RB	1.0000	
73	 K1010936-001	100.0000	MS
74	 RB	1.0000	
75	 RB	1.0000	
76	 CCV7	1.0000	CCV7
77	 CCB7	1.0000	CCB7
78	 K1010936-001	100.0000	MSD
79	 RB	1.0000	
80	 RB	1.0000	
81	 K1010936-002	50.0000	
82	 RB	1.0000	
83	 K1010936-003	50.0000	
84	 RB	1.0000	

Sequence: IC03100710  
Operator: nbakotich

Page 5 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

















Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 K1010936-004	Unknown	84	200.0	epa300	epa300	Finished	10/7/2010 11:56:19 PM
86	 RB	Unknown	85	200.0	epa300	epa300	Finished	10/8/2010 12:07:47 AM
87	 RB	Unknown	86	200.0	epa300	epa300	Finished	10/8/2010 12:19:15 AM
88	 CCV8	Unknown	87	200.0	epa300	epa300	Finished	10/8/2010 12:30:43 AM
89	 CCB8	Unknown	88	200.0	epa300	epa300	Finished	10/8/2010 12:42:12 AM
90	 K1010936-005	Unknown	89	200.0	epa300	epa300	Finished	10/8/2010 12:53:39 AM
91	 RB	Unknown	90	200.0	epa300	epa300	Finished	10/8/2010 1:05:07 AM
92	 K1010936-006	Unknown	91	200.0	epa300	epa300	Finished	10/8/2010 1:16:35 AM
93	 RB	Unknown	92	200.0	epa300	epa300	Finished	10/8/2010 1:28:03 AM
94	 K1010936-007	Unknown	93	200.0	epa300	epa300	Finished	10/8/2010 1:39:31 AM
95	 RB	Unknown	94	200.0	epa300	epa300	Finished	10/8/2010 1:50:59 AM
96	 K1010936-008	Unknown	95	200.0	epa300	epa300	Finished	10/8/2010 2:02:26 AM
97	 RB	Unknown	96	200.0	epa300	epa300	Finished	10/8/2010 2:13:54 AM
98	 RB	Unknown	97	200.0	epa300	epa300	Finished	10/8/2010 2:25:22 AM
99	 CCV9	Unknown	98	200.0	epa300	epa300	Finished	10/8/2010 2:36:49 AM
100	 CCB9	Unknown	99	200.0	epa300	epa300	Finished	10/8/2010 2:48:17 AM

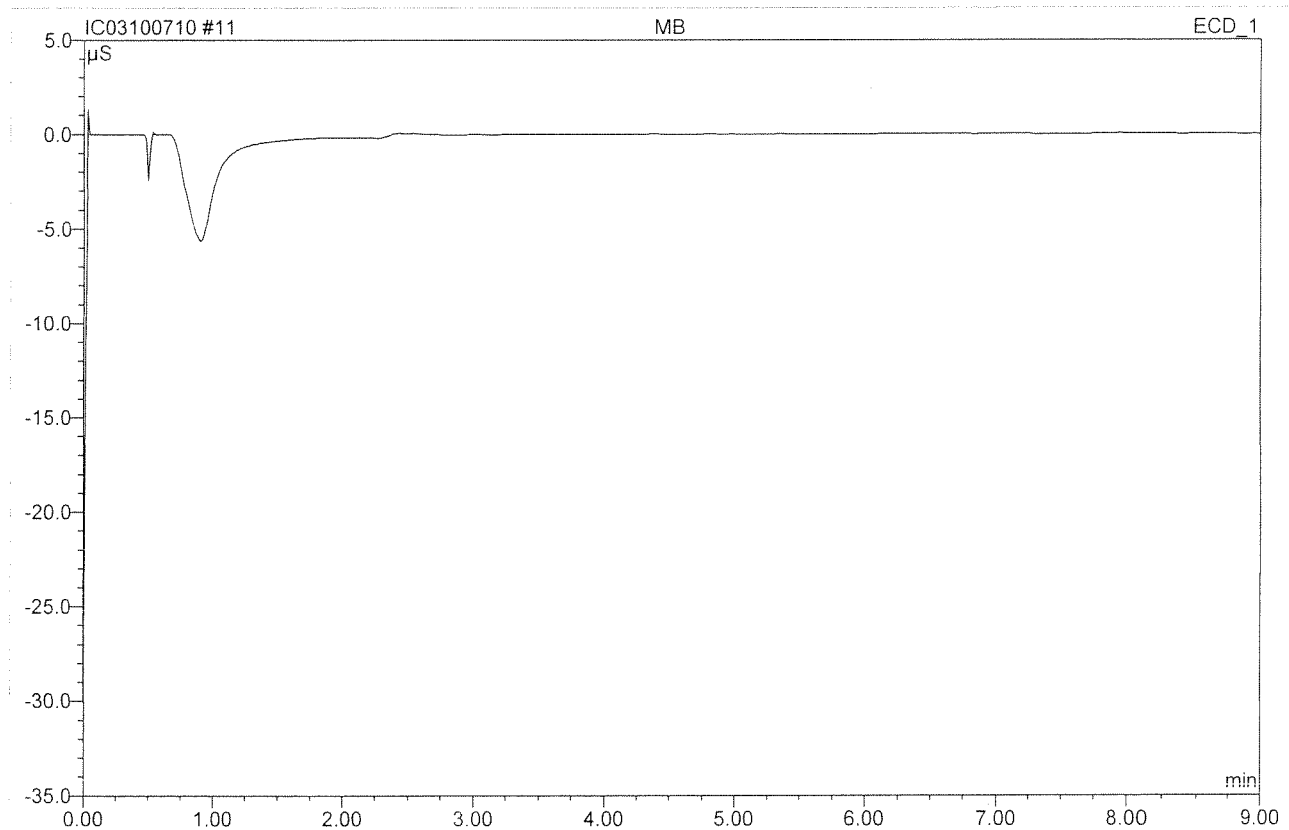
Sequence: IC03100710  
Operator: nbakotich

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
85	 K1010936-004	50.0000	
86	 RB	1.0000	
87	 RB	1.0000	
88	 CCV8	1.0000	CCV8
89	 CCB8	1.0000	CCB8
90	 K1010936-005	50.0000	
91	 RB	1.0000	
92	 K1010936-006	50.0000	
93	 RB	1.0000	
94	 K1010936-007	50.0000	
95	 RB	1.0000	
96	 K1010936-008	50.0000	
97	 RB	1.0000	
98	 RB	1.0000	
99	 CCV9	1.0000	CCV9
100	 CCB9	1.0000	CCB9

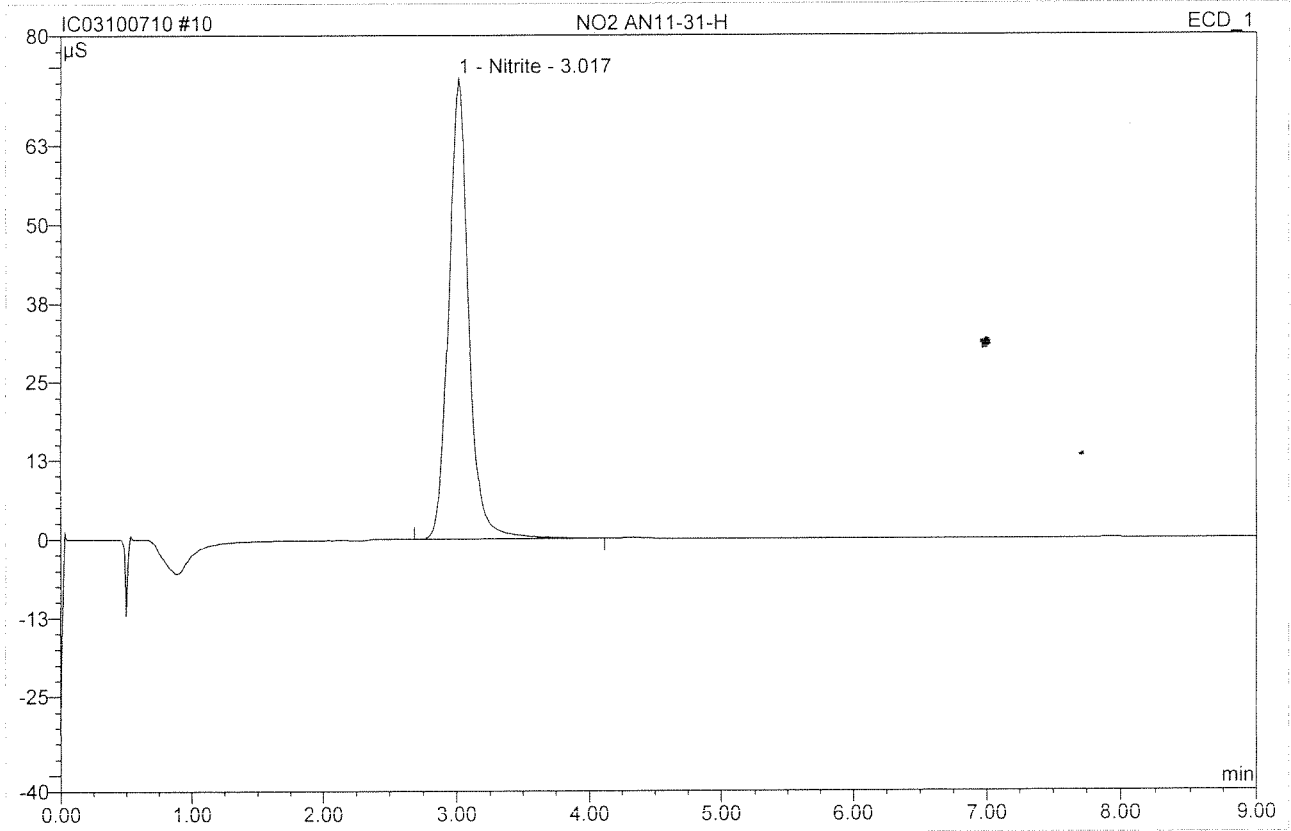
<b>11 MB</b>			
<b>MB</b>			
Sample Name:	<b>MB</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>11</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 9:16</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

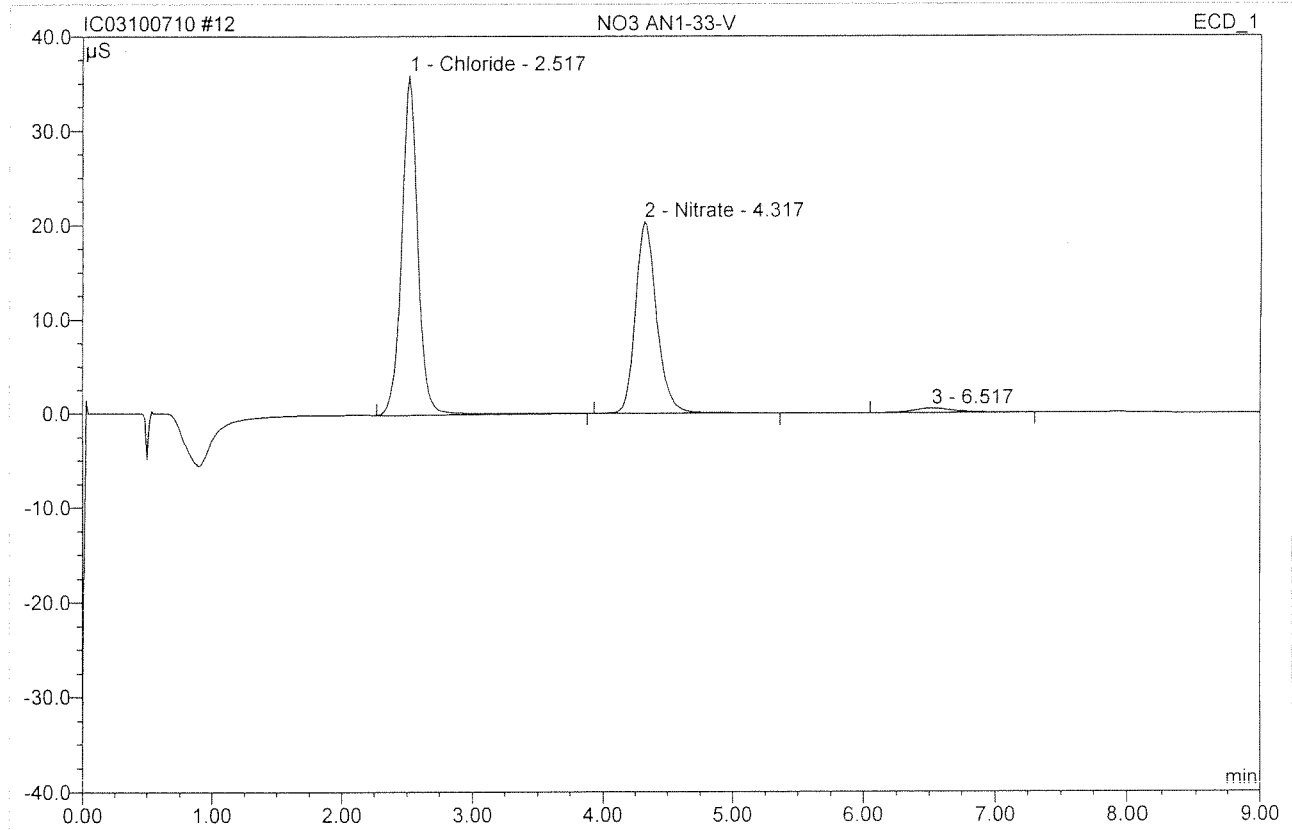
<b>10 NO2 AN11-31-H</b>			
<b>NO2</b>			
Sample Name:	NO2 AN11-31-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/7/2010 9:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.02	Nitrite	73.317	12.701	100.00	100 99.719	BMB
<b>Total:</b>			73.317	12.701	100.00	99.719	

*nbakotich*

<b>12 NO3 AN1-33-V</b>			
<b>NO3</b>			
Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/7/2010 9:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

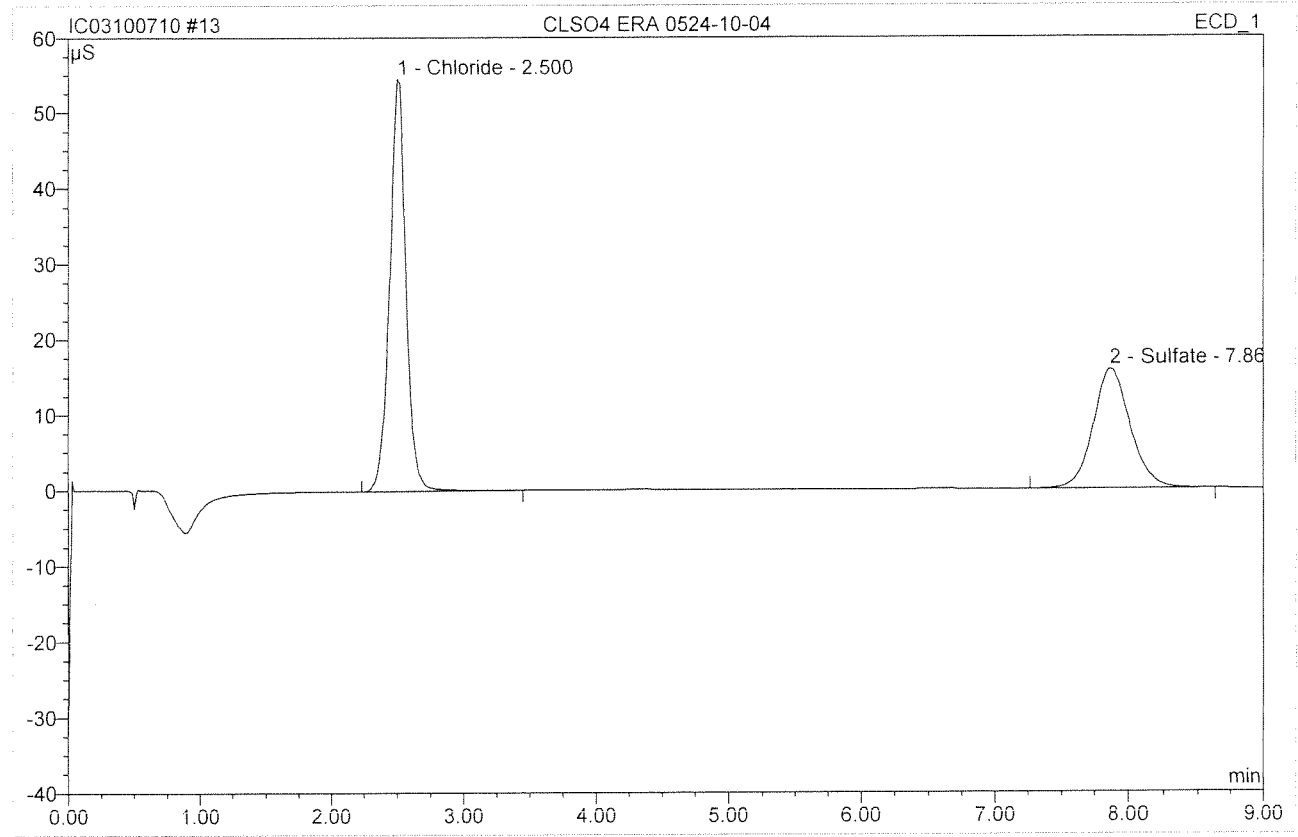


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	36.032	5.191	56.06	66.881	BMB
2	4.32	Nitrate	20.318	3.885	41.95	99 20.814	BMB
3	6.52	n.a.	0.473	0.184	1.99	n.a.	BMB
<b>Total:</b>			56.823	9.260	100.00	87.695	

*Handwritten signature*



<b>13 CLSO4 ERA 0524-10-04</b>			
<b>CLSO4</b>			
Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 9:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



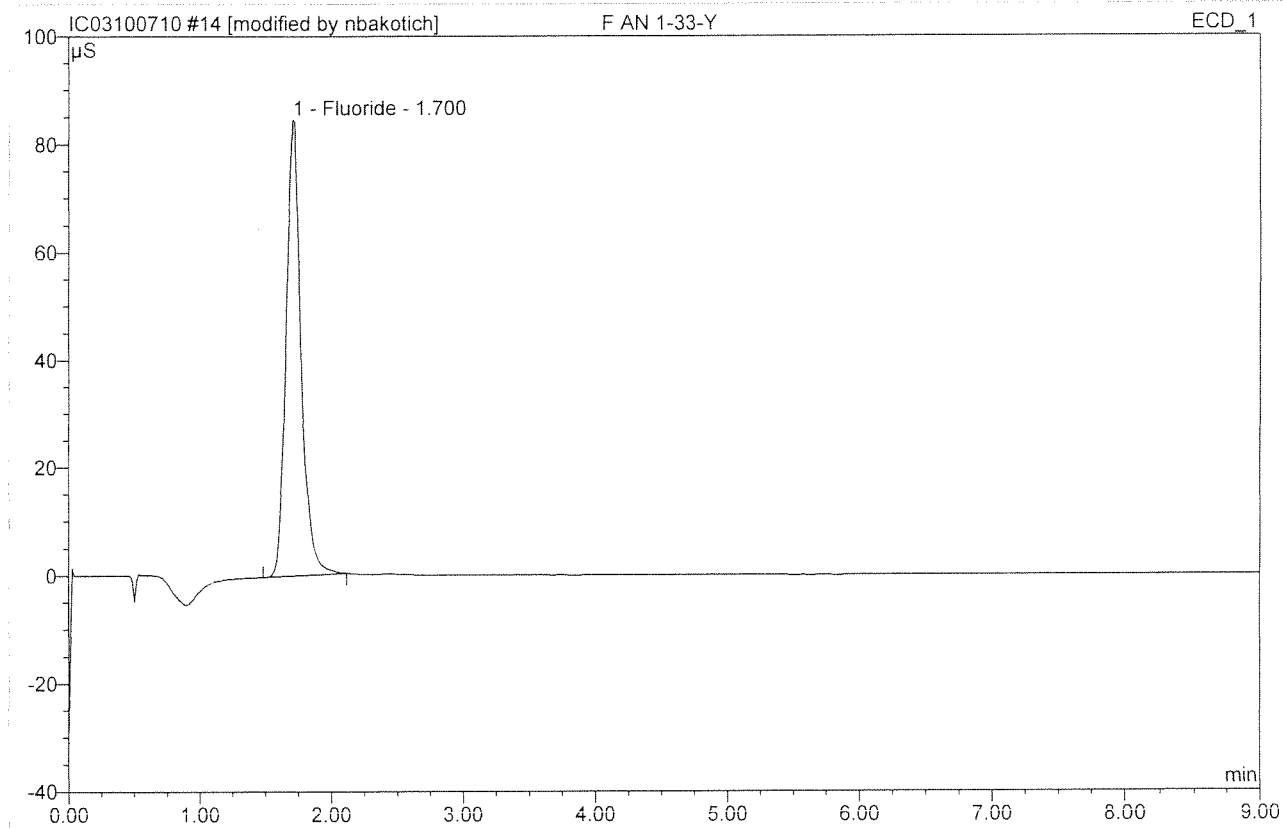
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.671	7.751	60.28	100 4.993	BMB
2	7.87	Sulfate	15.908	5.108	39.72	103 5.137	BMB
<b>Total:</b>			70.579	12.860	100.00	10.131	

*Handwritten signature/initials*

### 14 F AN 1-33-Y

F

Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.501	11.152	100.00	108 11.942	BMB*
<b>Total:</b>			84.501	11.152	100.00	11.942	

After Initials nb

OCT 08 2010

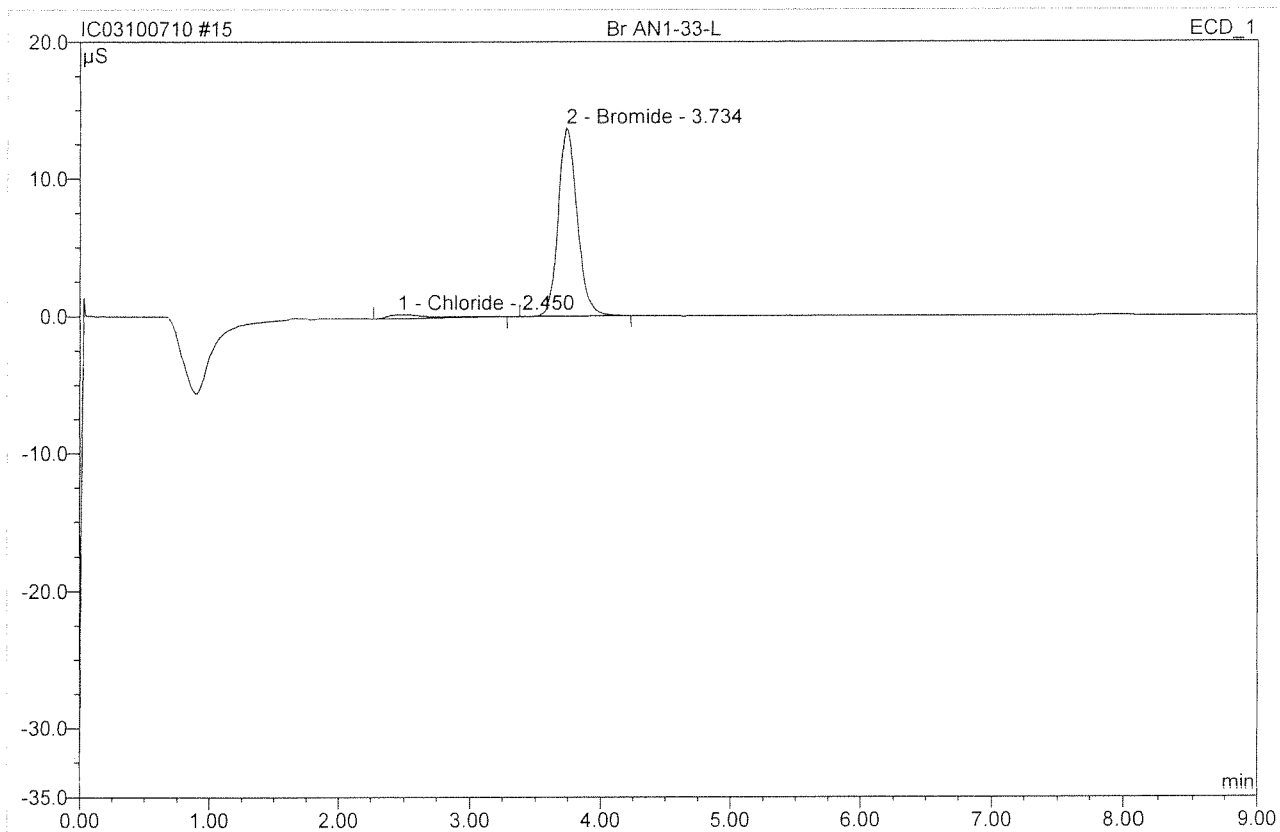
- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*Handwritten signature*

### 15 Br AN1-33-L

Br

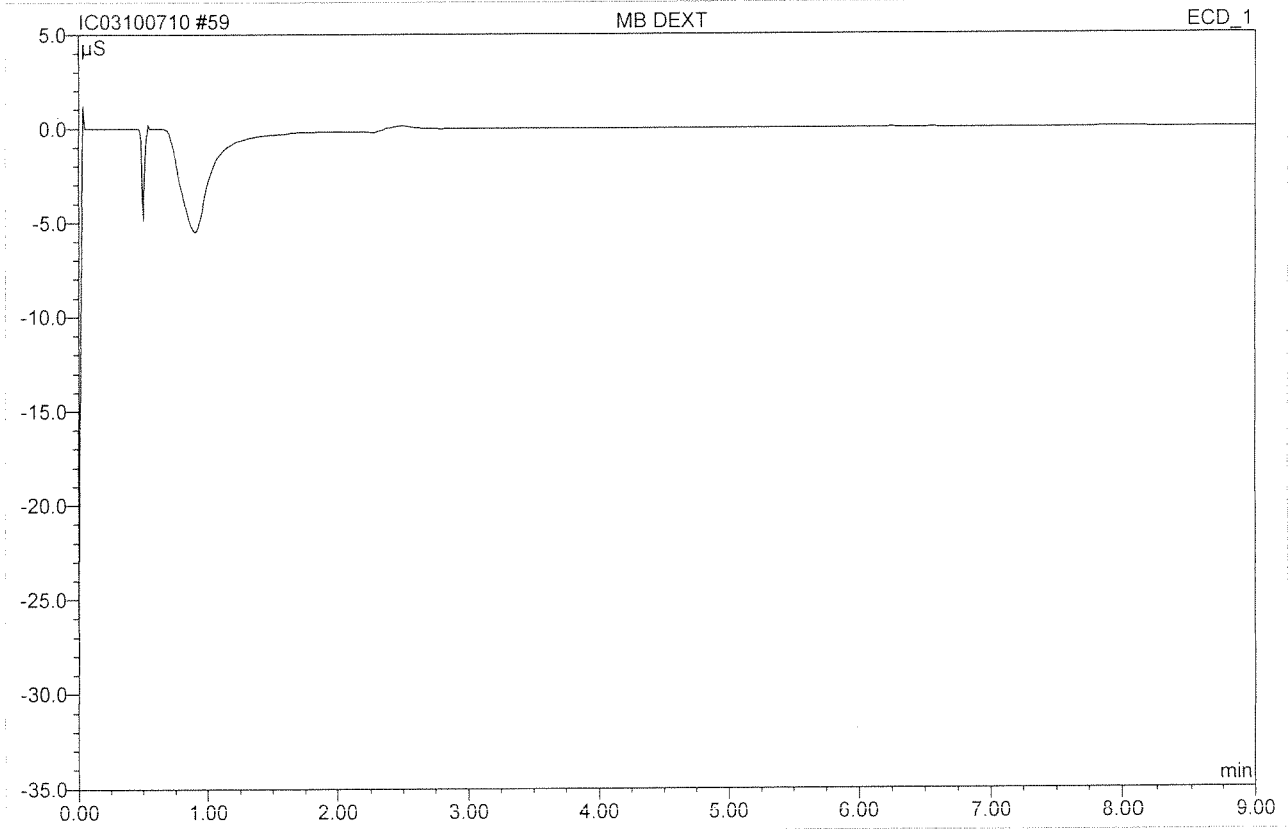
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:02	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.45	Chloride	0.282	0.113	4.70	0.073	BMB
2	3.73	Bromide	13.667	2.294	95.30	4.329	BMB
<b>Total:</b>			13.949	2.407	100.00	4.402	

*Handwritten signature*

<b>59 MB DEXT</b>			
Sample Name:	<b>MB DEXT</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>58</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 18:58</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

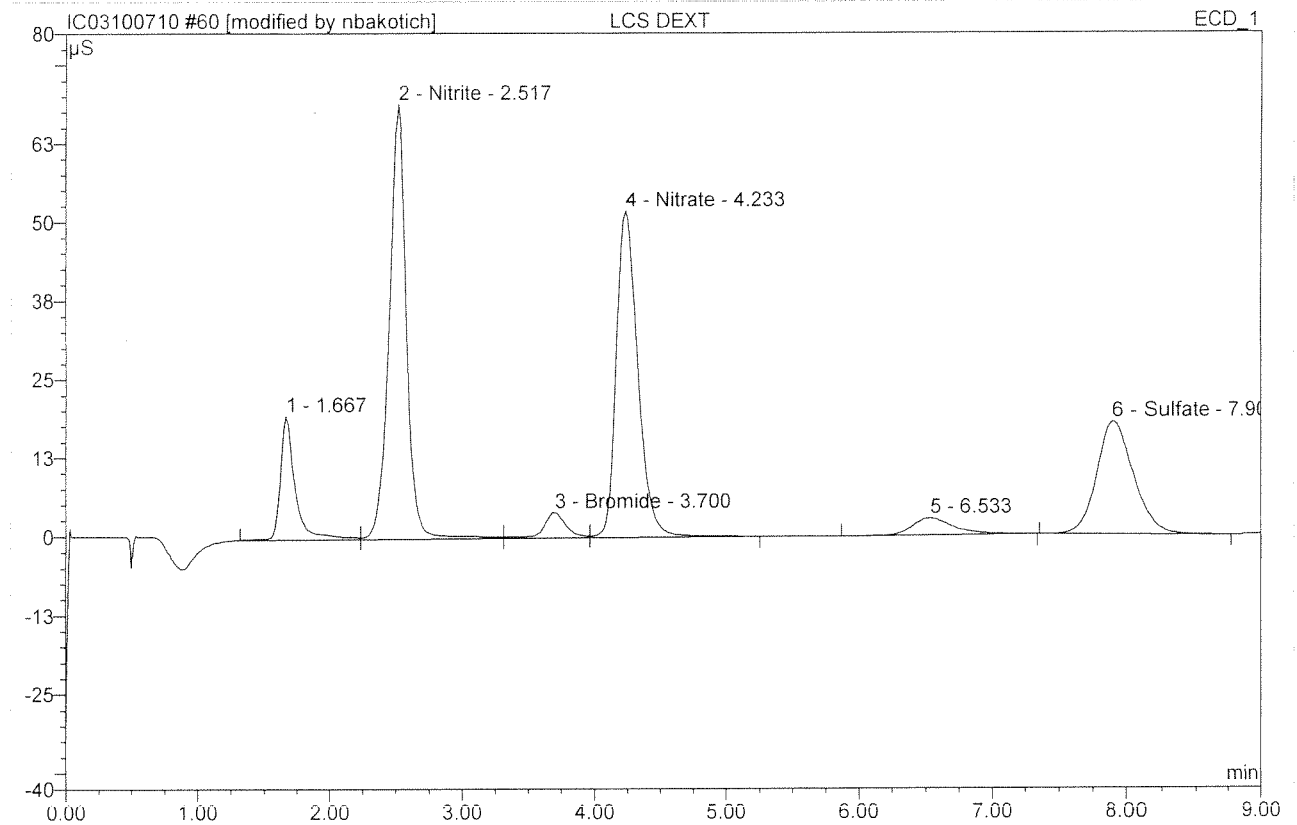


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*SO<sub>2</sub> CO<sub>2</sub>*

*HT  
10/8/10*

60 LCS DEXT			
Sample Name:	LCS DEXT	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 19:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	n.a.	19.639	2.621	8.68	n.a.	BM
2	2.52	Nitrite	69.066	10.435	34.54	32.768	M
3	3.70	Bromide	4.010	0.774	2.56	14.605	M
4	4.23	Nitrate	51.856	9.755	32.29	26.133	MB
5	6.53	n.a.	2.697	0.981	3.25	n.a.	BMB*
6	7.90	Sulfate	17.995	5.647	18.69	56.792	BMB*
<b>Total:</b>			165.262	30.213	100.00	130.299	

After Initials nb

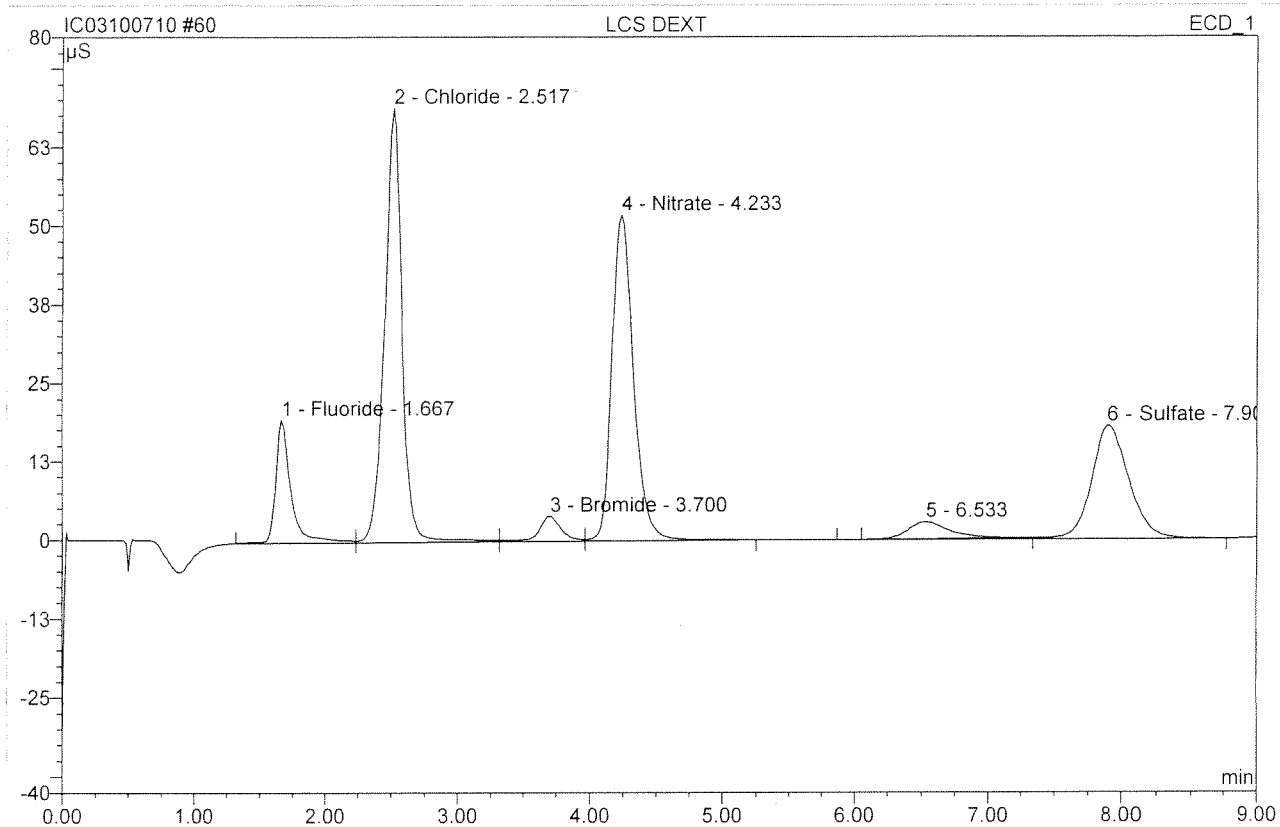
OCT 08 2010

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default/Integration  Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other

### 60 LCS DEXT

Sample Name:	LCS DEXT	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 19:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



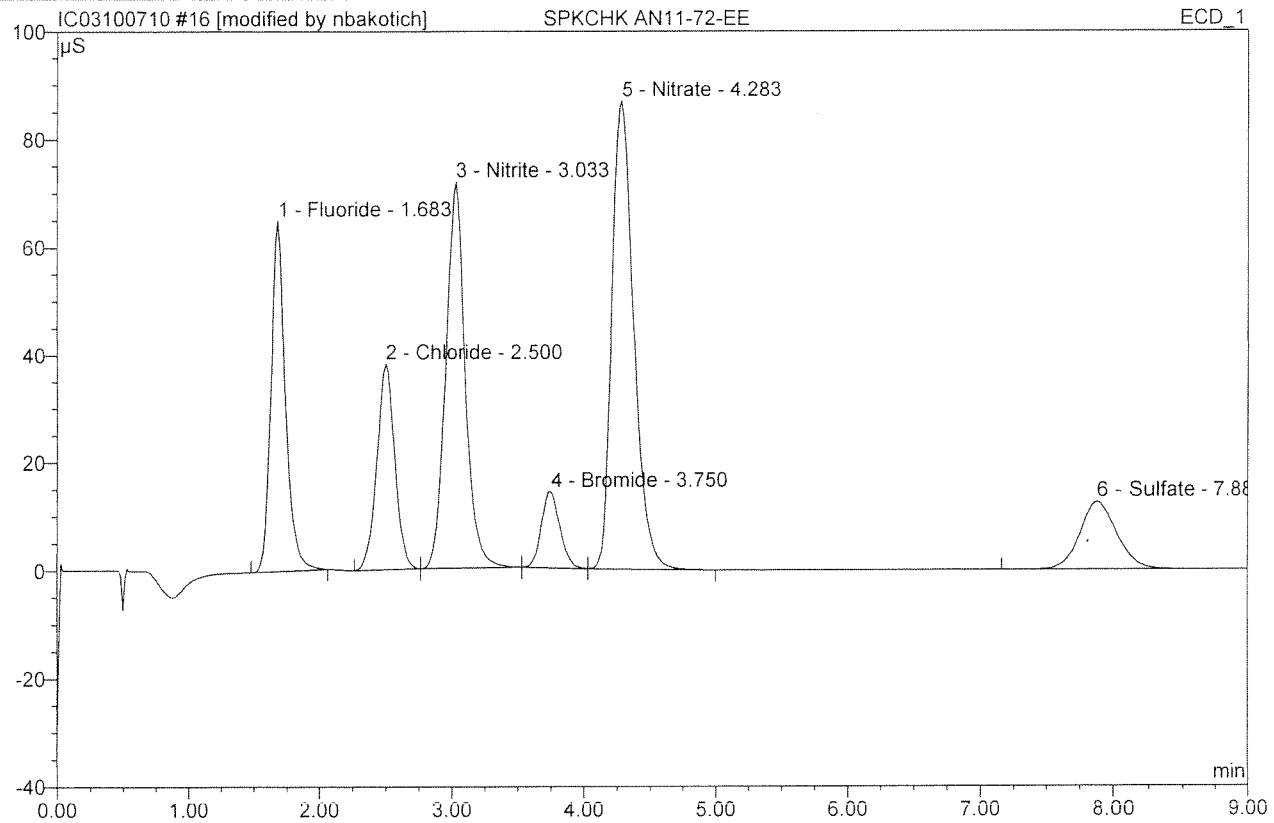
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	19.639	2.621	8.60	14.033	BM
2	2.52	Chloride	69.066	10.435	34.23	67.220	M
3	3.70	Bromide	4.010	0.774	2.54	14.605	M
4	4.23	Nitrate	51.856	9.755	32.01	26.133	MB
5	6.53	n.a.	2.706	0.992	3.25	n.a.	Ru
6	7.90	Sulfate	18.106	5.902	19.37	59.361	BMB
<b>Total:</b>			165.383	30.479	100.00	181.353	

OCT 08 2010

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### 16 SPKCHK AN11-72-EE

Sample Name:	SPKCHK AN11-72-EE	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

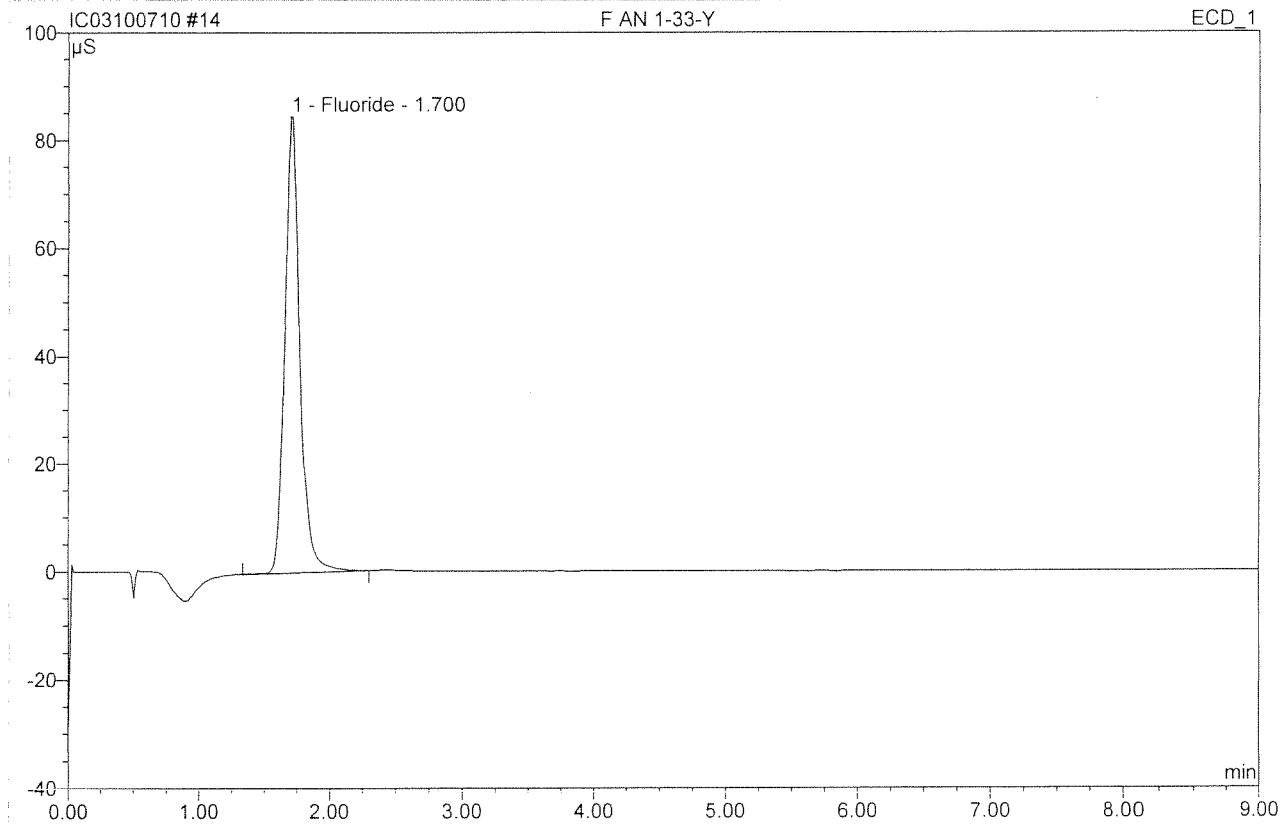


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	65.048	8.303	16.74	4.446	BMB*
2	2.50	Chloride	38.143	5.973	12.05	3.848	BMB
3	3.03	Nitrite	71.734	12.281	24.77	3.857	bMB
4	3.75	Bromide	14.080	2.276	4.59	4.295	bMB
5	4.28	Nitrate	86.674	16.720	33.72	4.479	bMB
6	7.88	Sulfate	12.574	4.036	8.14	4.059	BMB
<b>Total:</b>			288.252	49.590	100.00	24.984	

TV=4.0

*Handwritten signature/initials*

<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.688	11.346	100.00	12.149	BMB
<b>Total:</b>			84.688	11.346	100.00	12.149	

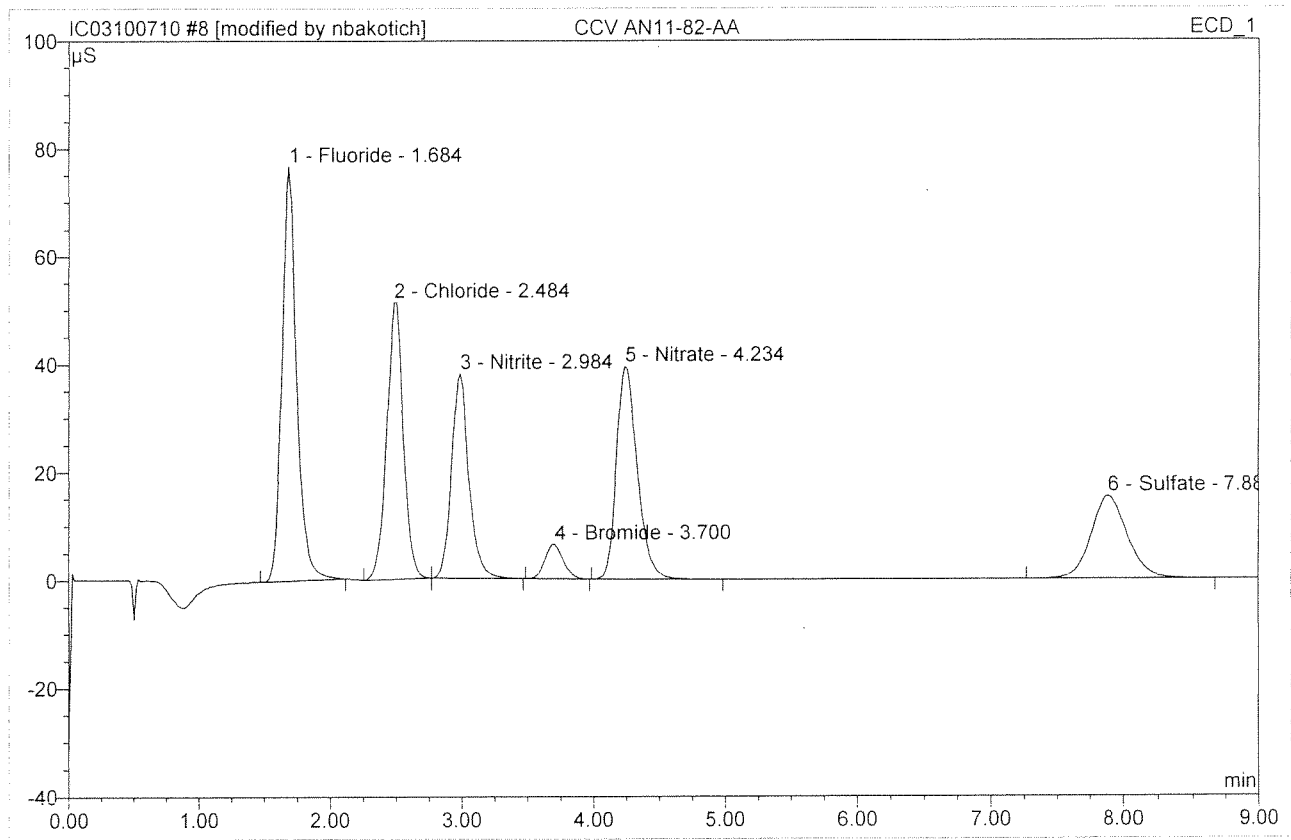
**Before**

OCT 08 2010



### 8 CCV AN11-82-AA

Sample Name:	CCV AN11-82-AA	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



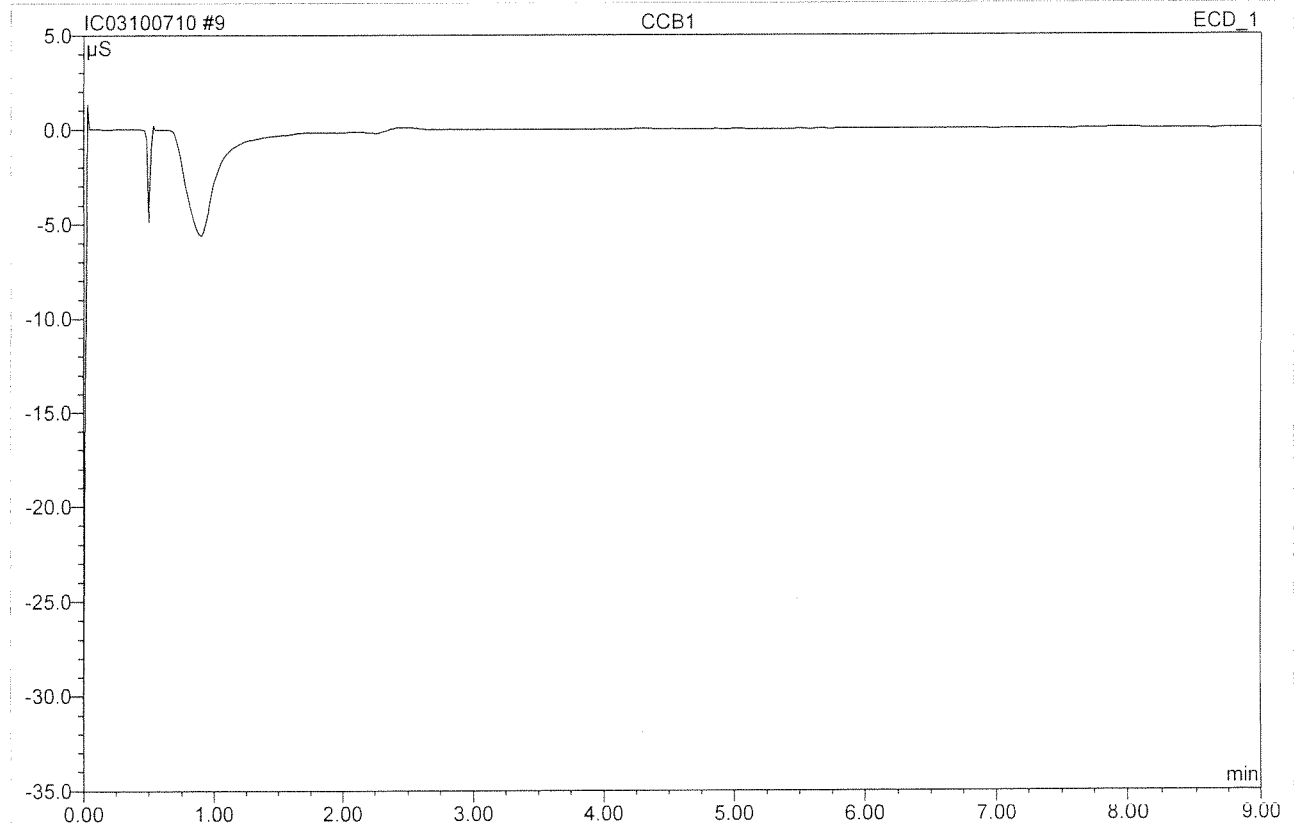
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.763	9.863	27.20	106 5.281	BMB*
2	2.48	Chloride	51.241	7.454	20.56	96 4.802	BMB*
3	2.98	Nitrite	37.906	5.829	16.08	92 1.831	bMB
4	3.70	Bromide	6.369	1.024	2.82	97 1.933	BMB
5	4.23	Nitrate	39.419	7.225	19.92	97 1.935	BMB
6	7.88	Sulfate	15.376	4.866	13.42	98 4.893	BMB
<b>Total:</b>			227.074	36.260	100.00	20.674	

Anal Initials     

OCT 07 2010

*W. [Signature]*

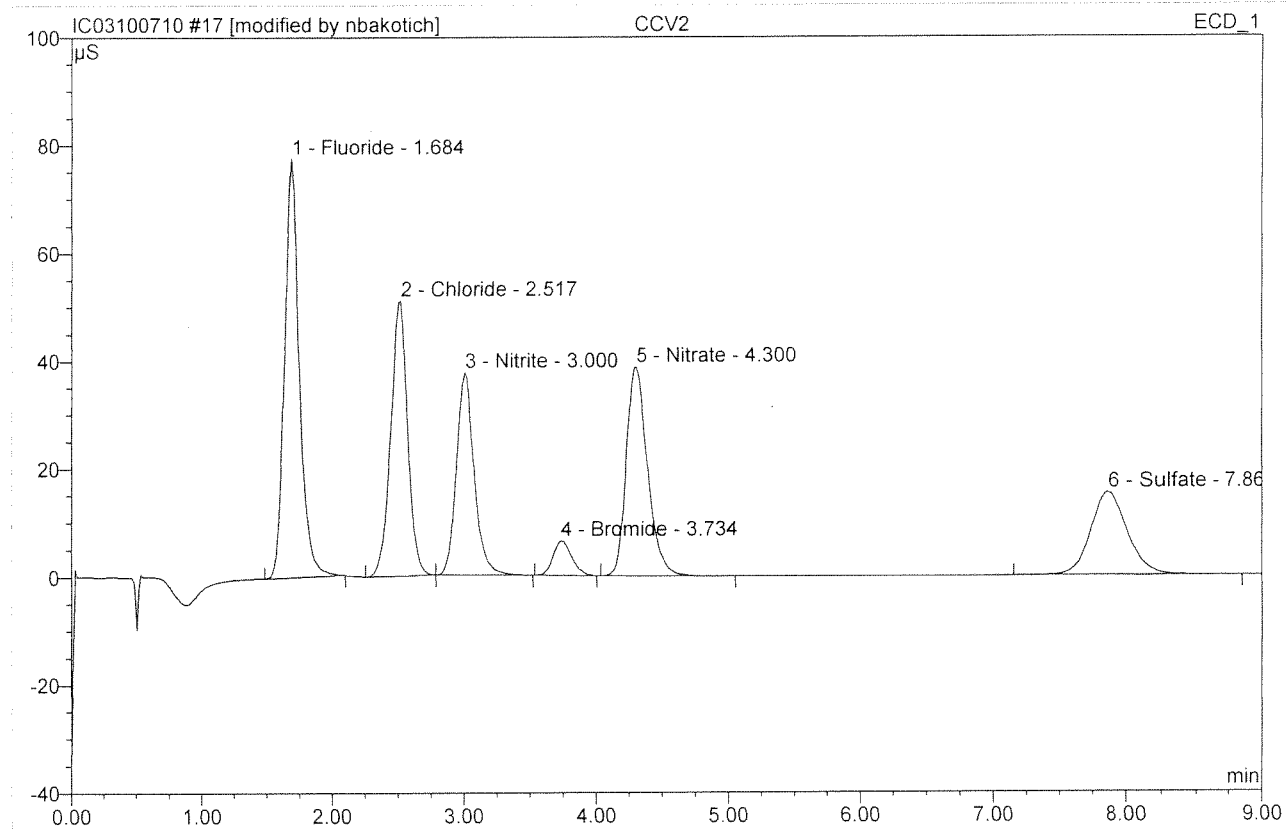
<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



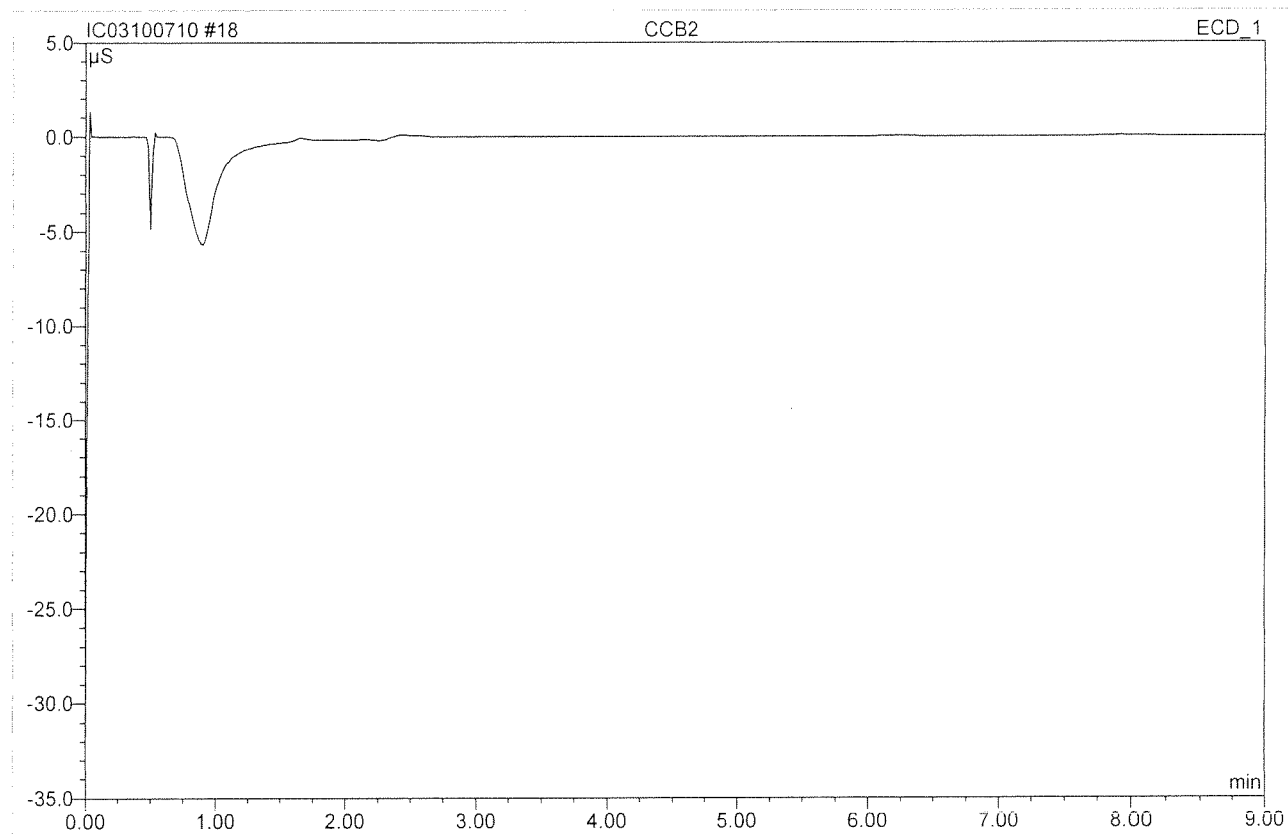
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.628	10.111	27.54	108 5.413	BMB*
2	2.52	Chloride	50.996	7.527	20.50	97 4.849	BMB*
3	3.00	Nitrite	37.589	5.845	15.92	97 1.836	bMB*
4	3.73	Bromide	6.357	1.035	2.82	98 1.954	BMB*
5	4.30	Nitrate	38.664	7.277	19.82	98 1.949	BMB*
6	7.87	Sulfate	15.414	4.914	13.39	99 4.942	BMB
<b>Total:</b>			226.648	36.709	100.00	20.943	

Alt. Initials: nb

OCT 08 2010

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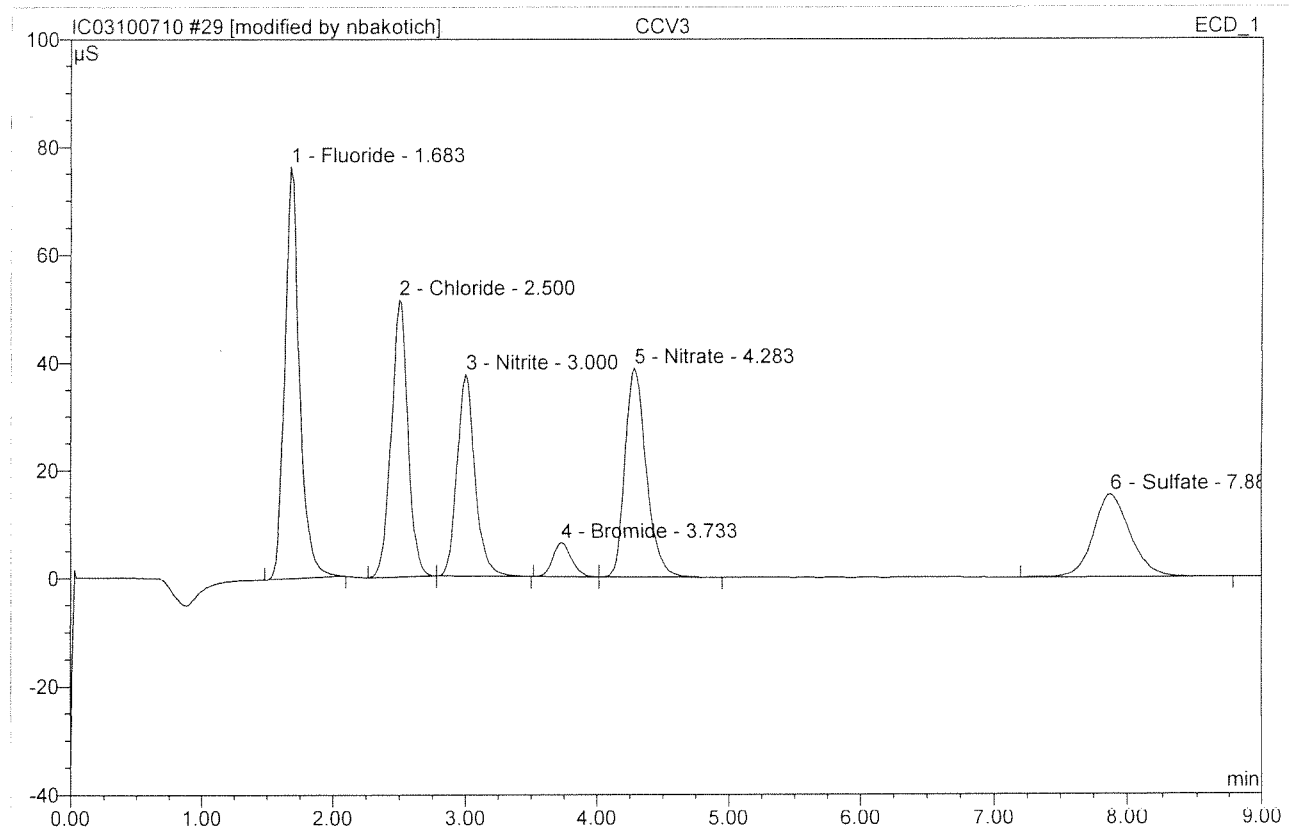
<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.419	9.982	27.34	107 5.344	BMB*
2	2.50	Chloride	51.416	7.466	20.45	96 4.810	BMB*
3	3.00	Nitrite	37.524	5.863	16.06	92 1.841	bMB
4	3.73	Bromide	6.356	1.034	2.83	98 1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.98	98 1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.34	98 4.899	BMB
<b>Total:</b>			225.938	36.512	100.00	20.801	

After Initials nb

OCT 08 2010

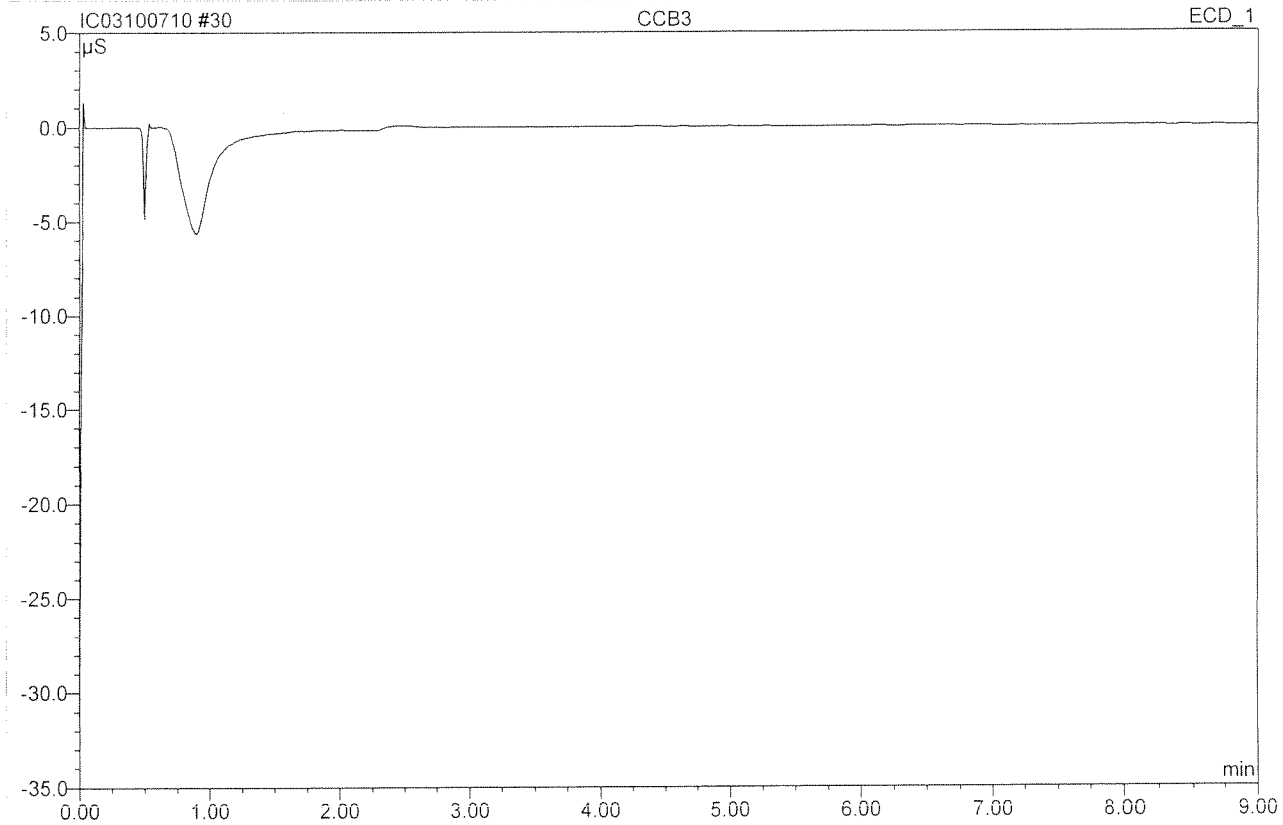
*Handwritten signature*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

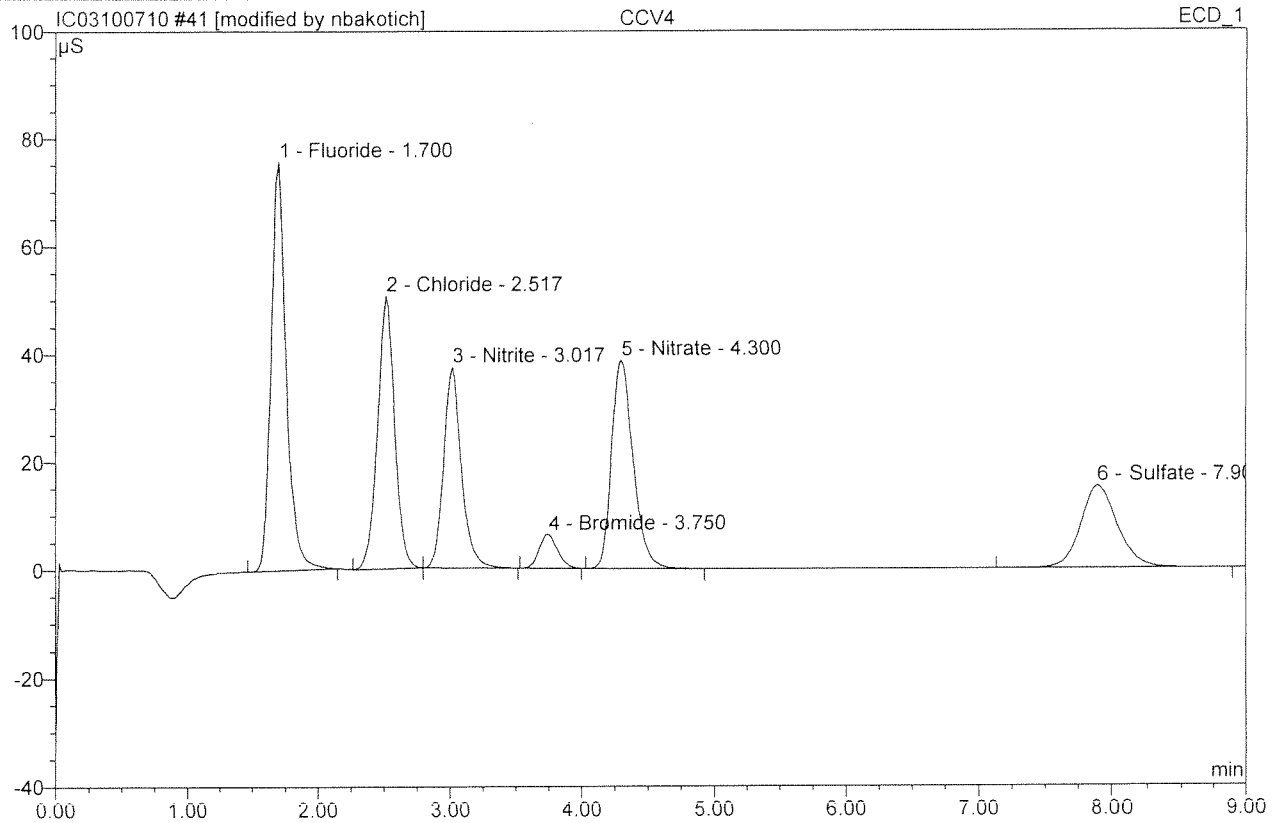
<b>30 CCB3</b>			
<b>CCB3</b>			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.848	10.019	27.42	107 5.364	BMB*
2	2.52	Chloride	50.578	7.486	20.49	96 4.822	BMb*
3	3.02	Nitrite	37.308	5.838	15.98	93 1.833	bMB
4	3.75	Bromide	6.309	1.022	2.80	97 1.928	BMB*
5	4.30	Nitrate	38.747	7.284	19.94	98 1.951	BMB*
6	7.90	Sulfate	15.332	4.886	13.37	98 4.914	BMB
<b>Total:</b>			224.123	36.534	100.00	20.813	

After Initials     

OCT 08 2010

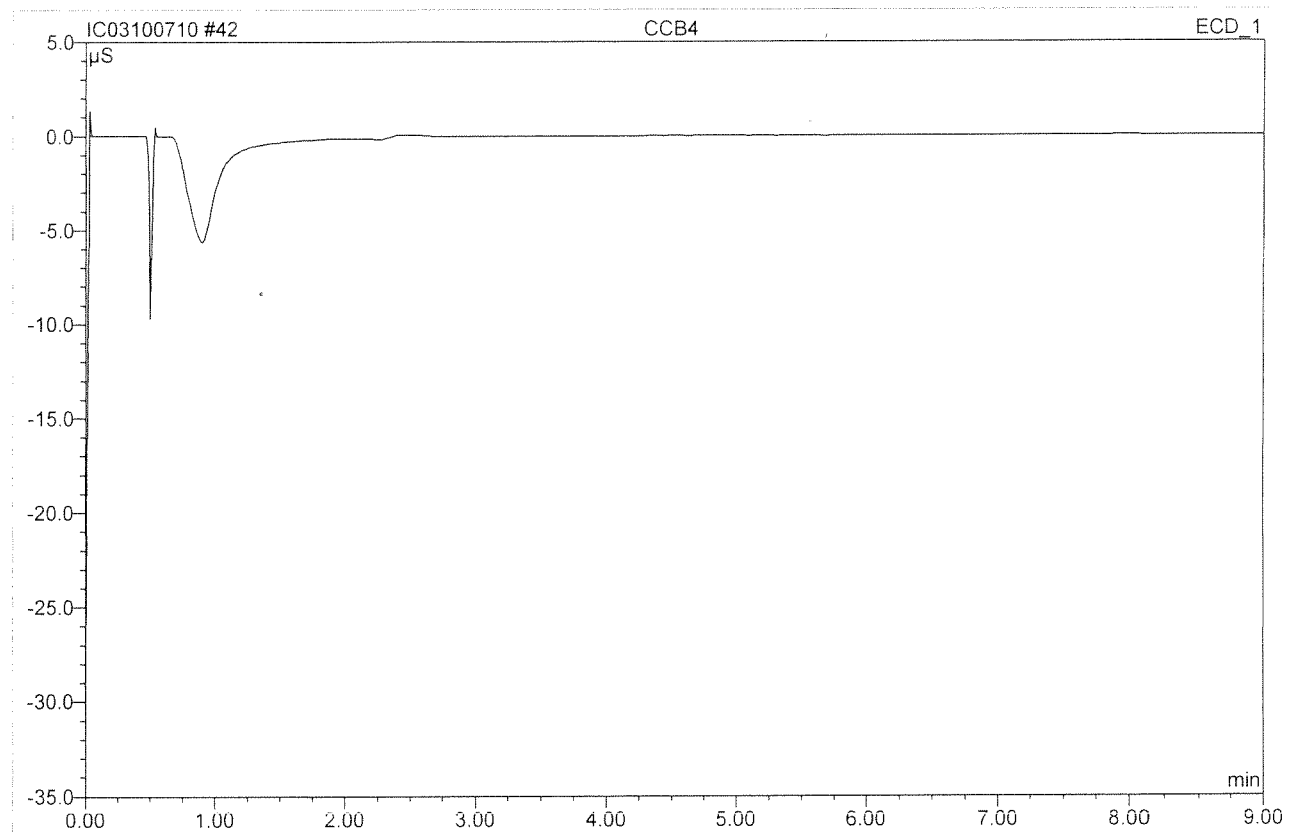
*HF*  
*10/10/10*

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

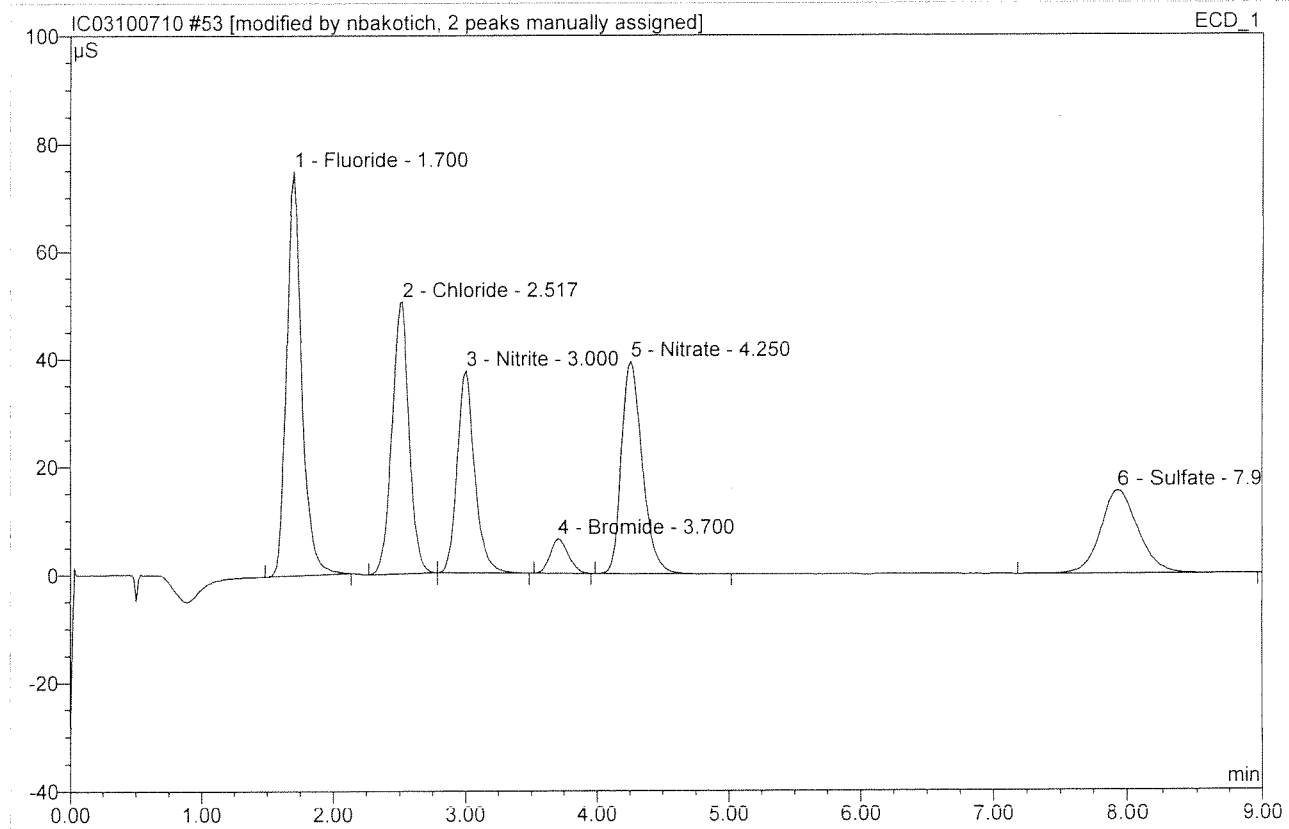


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K. Kofala*



<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



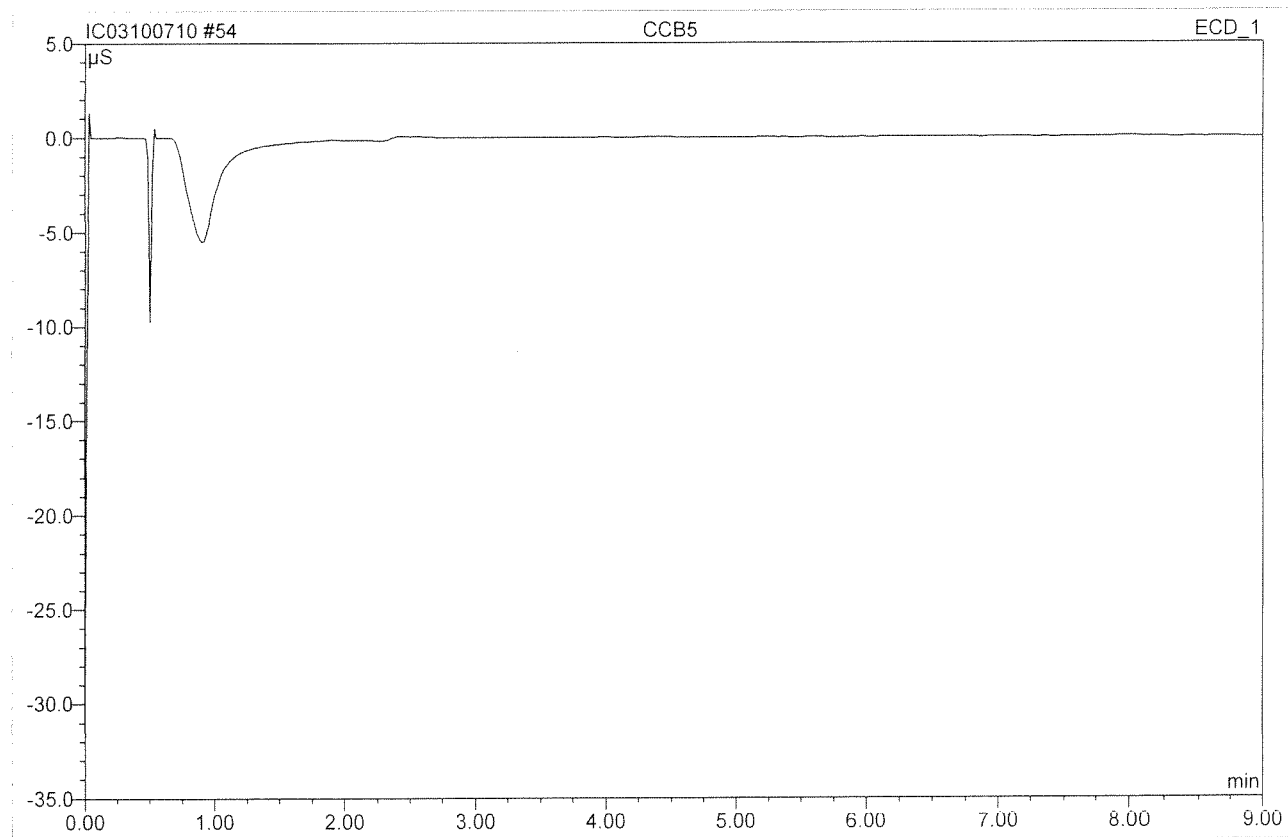
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.967	9.911	27.33	106 5.306	BMB*^
2	2.52	Chloride	50.316	7.442	20.52	96 4.794	BMb*^
3	3.00	Nitrite	37.435	5.786	15.95	91 1.817	bMB*
4	3.70	Bromide	6.333	1.015	2.80	96 1.915	BMB*
5	4.25	Nitrate	39.296	7.237	19.95	91 1.939	BMB*
6	7.93	Sulfate	15.422	4.879	13.45	98 4.906	BMB
<b>Total:</b>			223.770	36.269	100.00	20.677	

After Initials nb

*Handwritten signature/initials*

OCT 08 2010

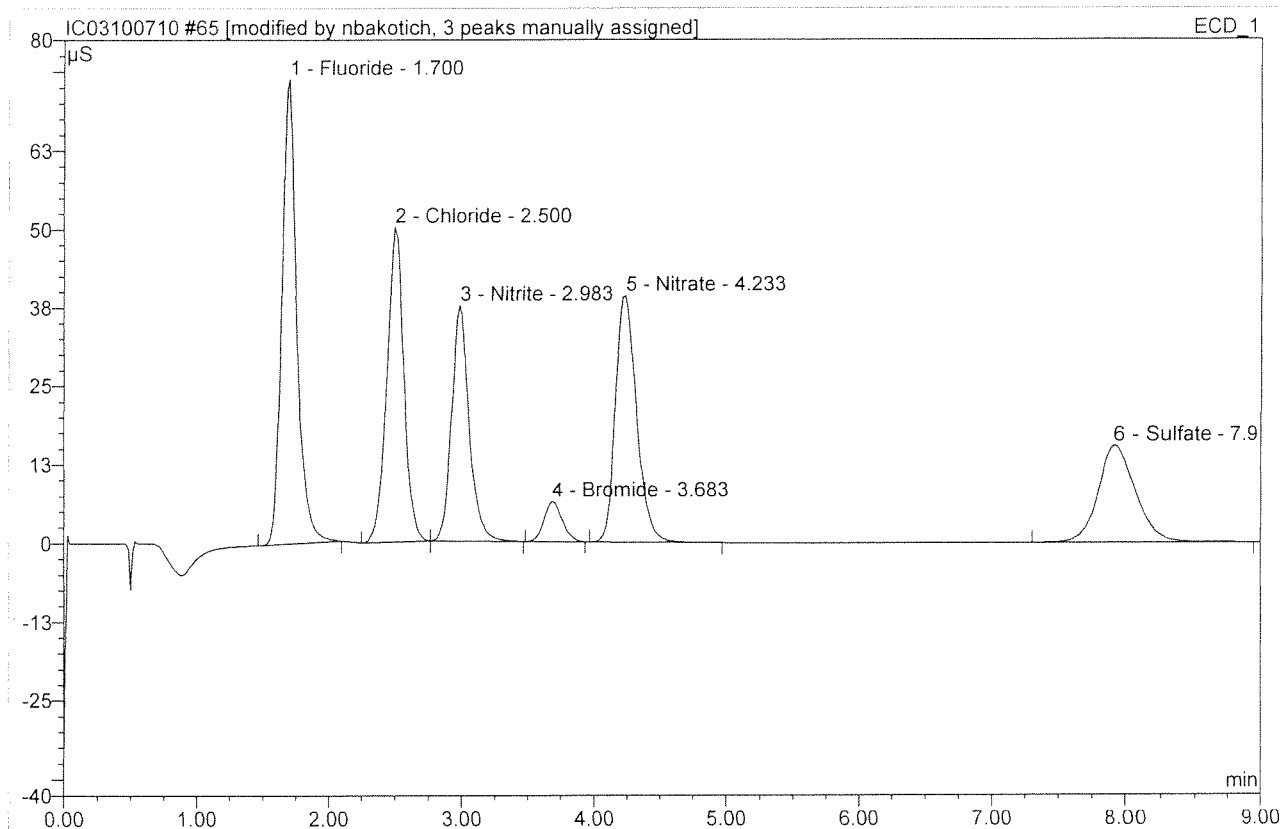
<b>54 CCB5</b>			
<b>CCB5</b>			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 18:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.855	9.776	27.11	105 5.234	BMB*^
2	2.50	Chloride	50.090	7.401	20.52	95 4.768	BMB*^
3	2.98	Nitrite	37.466	5.758	15.97	91 1.808	bMB*^
4	3.68	Bromide	6.379	1.020	2.83	97 1.925	BMB*
5	4.23	Nitrate	39.241	7.242	20.08	97 1.940	BMB*
6	7.92	Sulfate	15.352	4.865	13.49	98 4.893	BMB
<b>Total:</b>			222.382	36.062	100.00	20.568	

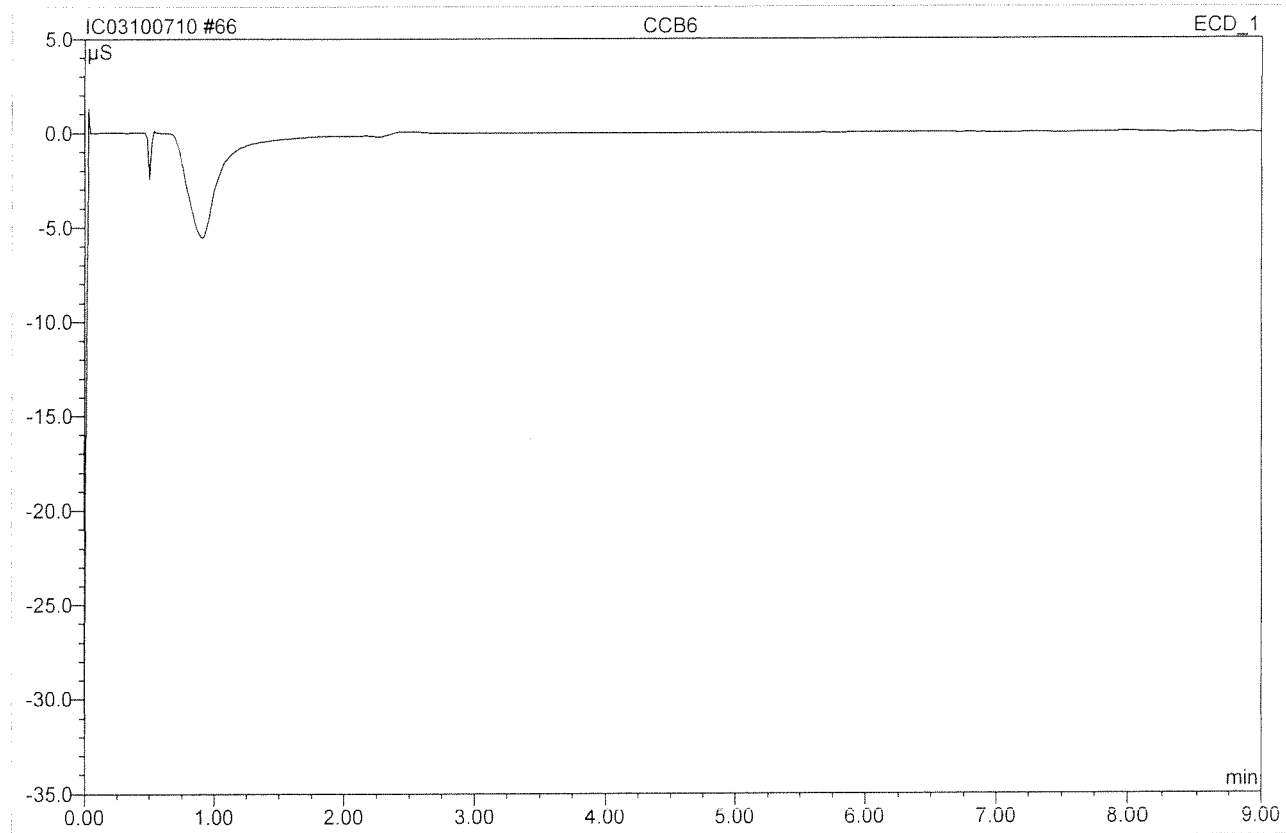
After Initials mb

OCT 08 2010

*Handwritten signature*  
10/10/10

default/Integration  Wrong Peak/Peak not Found  
 Baseline/show only major peaks  
 Other...

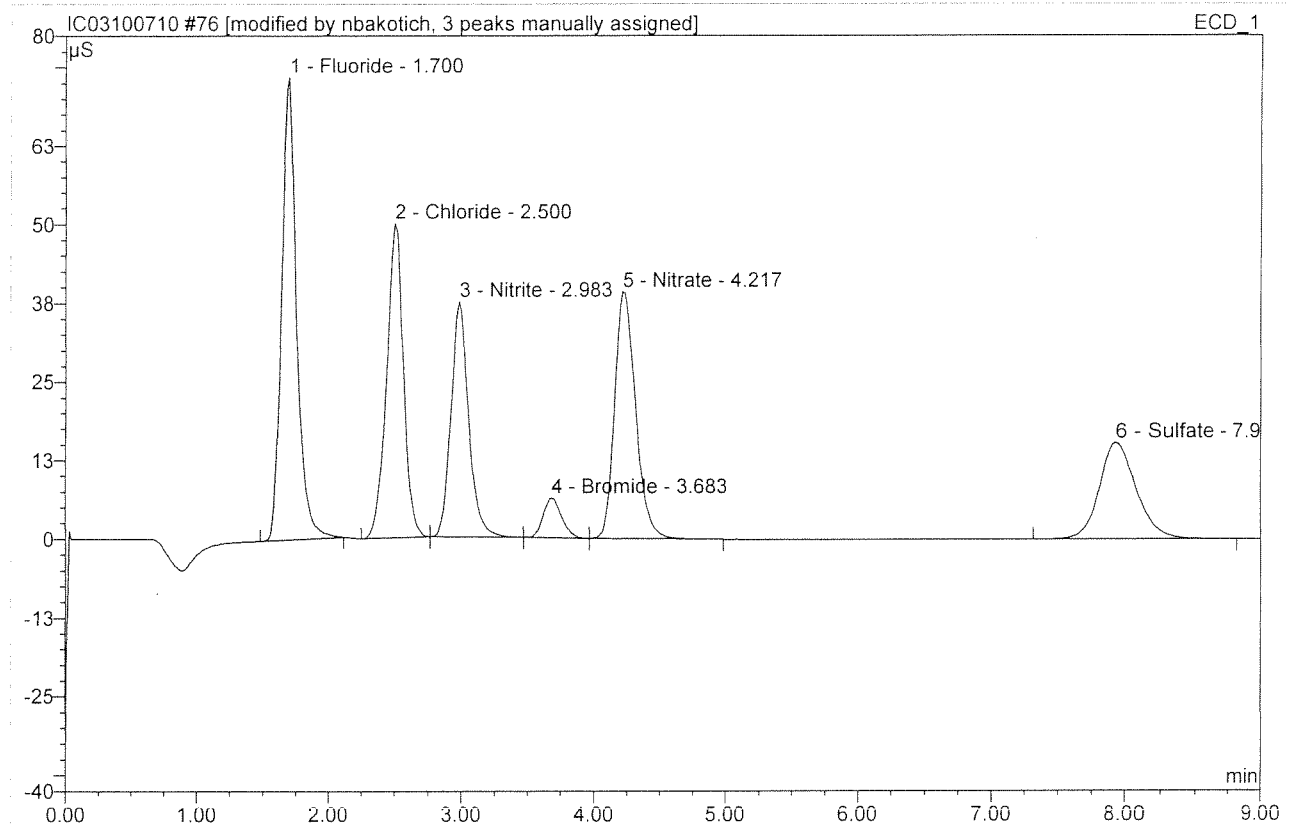
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.579	9.754	27.10	104 5.223	BMB*^
2	2.50	Chloride	49.968	7.366	20.46	95 4.745	BMB*^
3	2.98	Nitrite	37.379	5.775	16.04	91 1.814	bMb^
4	3.68	Bromide	6.423	1.025	2.85	97 1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.11	97 1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.44	97 4.864	BMB
<b>Total:</b>			221.983	35.995	100.00	20.519	

After Initials nb

OCT 08 2010

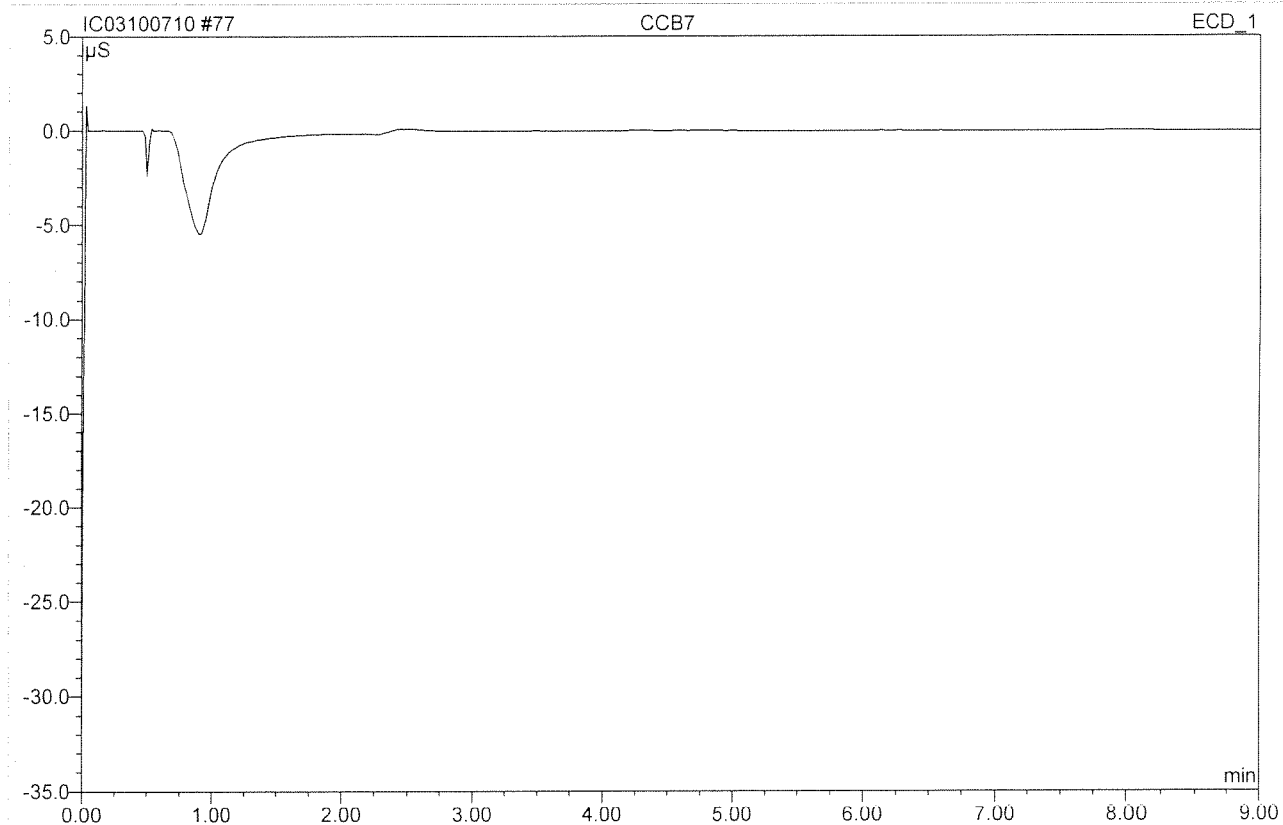
*Handwritten signature*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

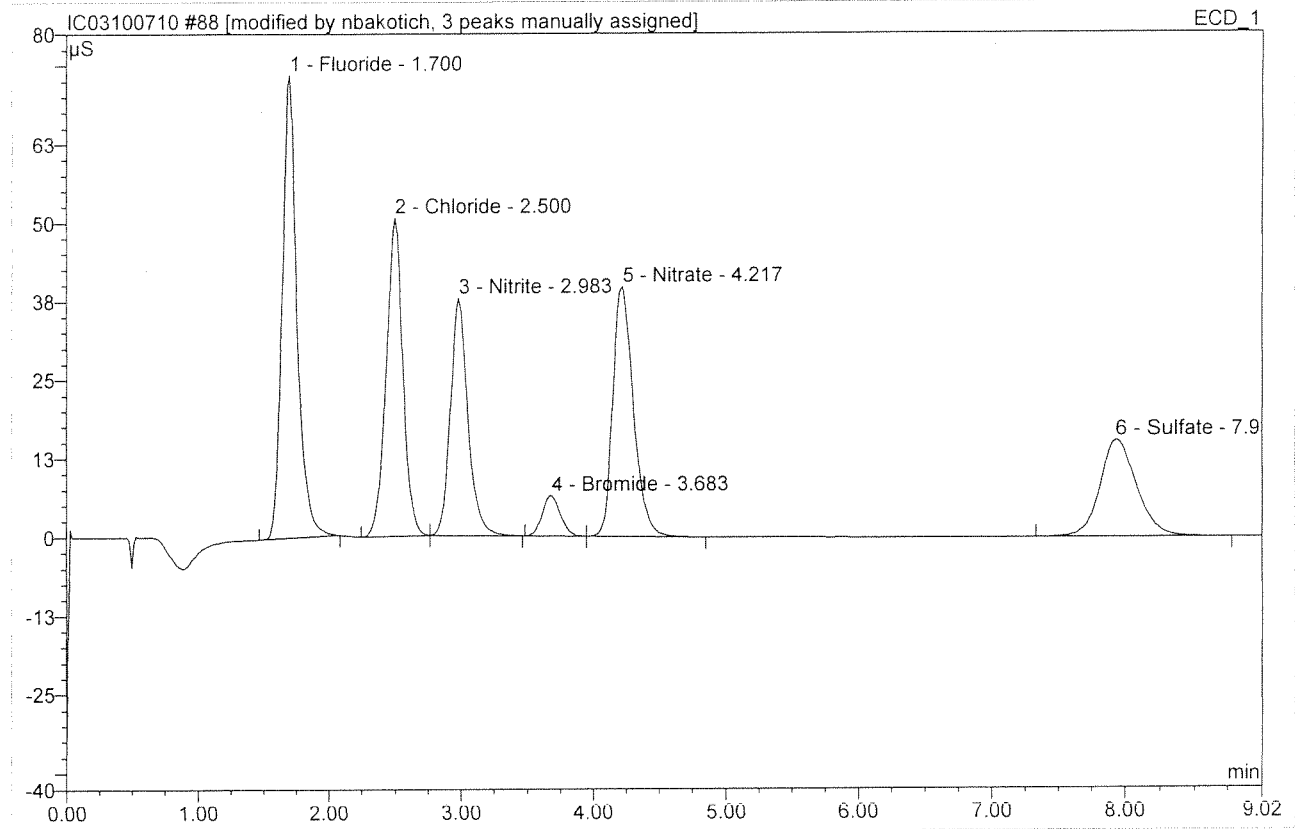
<b>77 CCB7</b>			
<b>CCB7</b>			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:24	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	<b>CCV8</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>87</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/8/2010 0:30</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.02</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.611	9.705	27.00	100/ 5.196	BMB*^
2	2.50	Chloride	50.630	7.413	20.62	96 4.775	BMb*^
3	2.98	Nitrite	37.654	5.782	16.08	91 1.816	bMB*^
4	3.68	Bromide	6.421	1.026	2.85	97 1.937	BMb*
5	4.22	Nitrate	39.711	7.178	19.97	96 1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.48	97 4.873	BMB
<b>Total:</b>			223.415	35.949	100.00	20.519	

After Initials nb

OCT 08 2010

*Handwritten signature/initials*

default/Integration

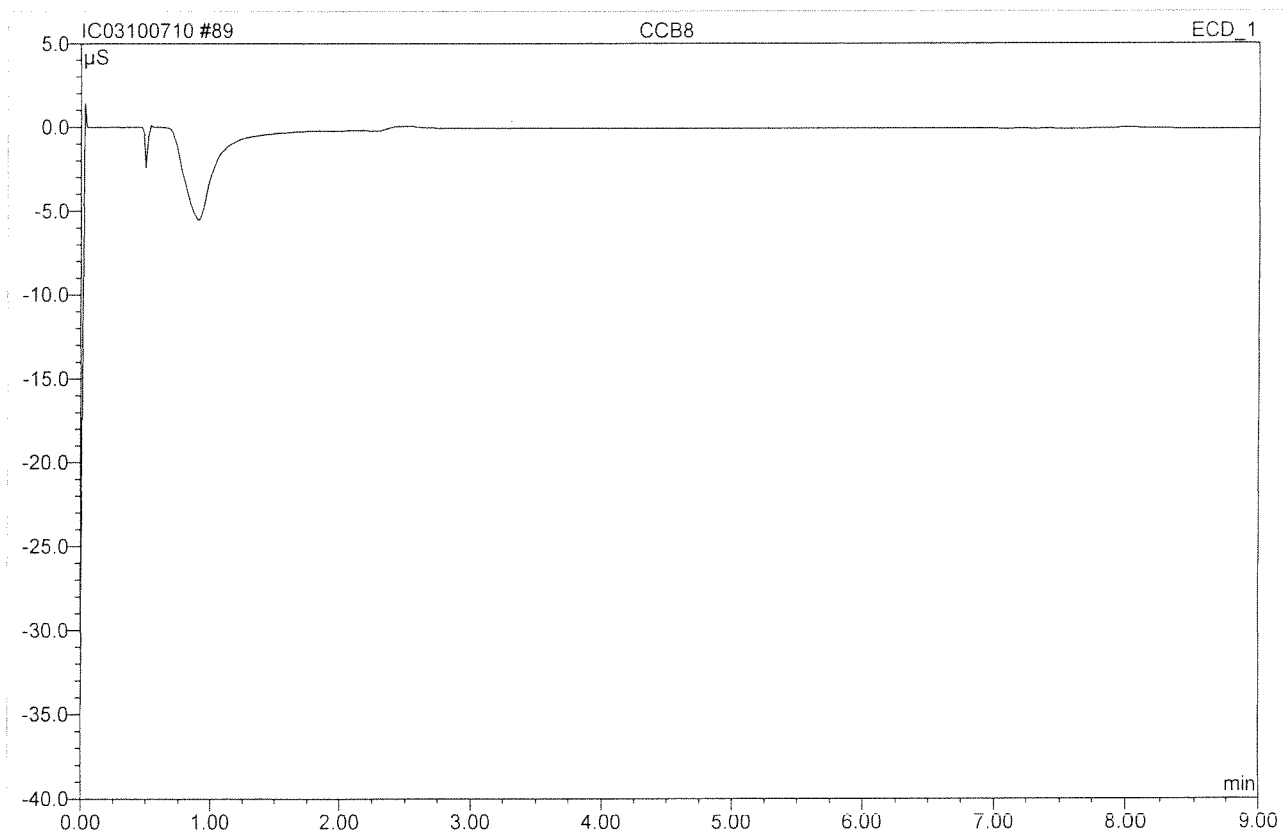
Wrong Peak/Peak not Found  
 Line/shoulder Incorrect

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

### 89 CCB8

#### CCB8

Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	88	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

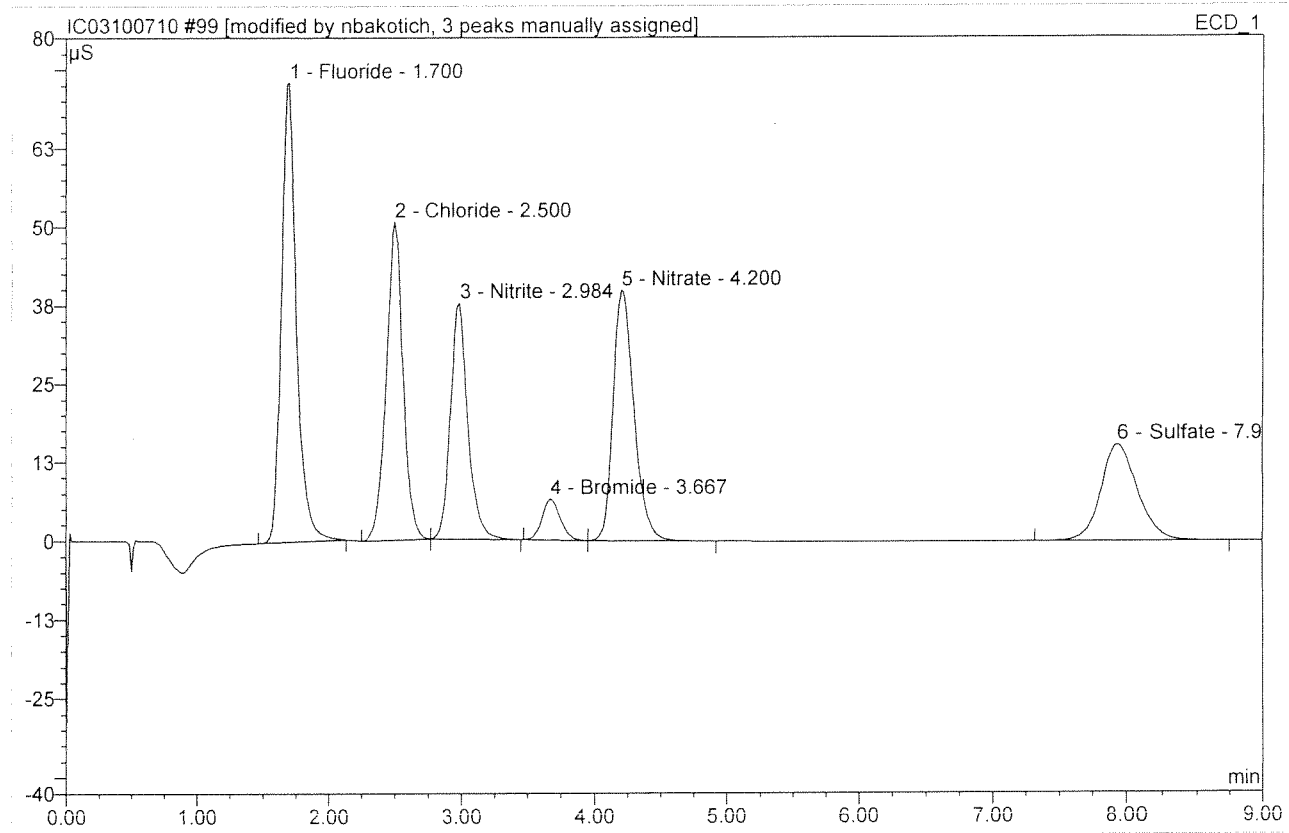


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*



<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.136	9.724	27.05	104 5.206	BMB*^
2	2.50	Chloride	50.664	7.399	20.58	95 4.766	BMB*^
3	2.98	Nitrite	37.592	5.753	16.00	91 1.807	bMB^
4	3.67	Bromide	6.520	1.032	2.87	98 1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.16	97 1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.33	96 4.819	BMB
<b>Total:</b>			223.162	35.944	100.00	20.486	

Alter initials ALB

OCT 08 2010

Wrong Peak/Peak not Found  
Shoulder Incorrect  
Other

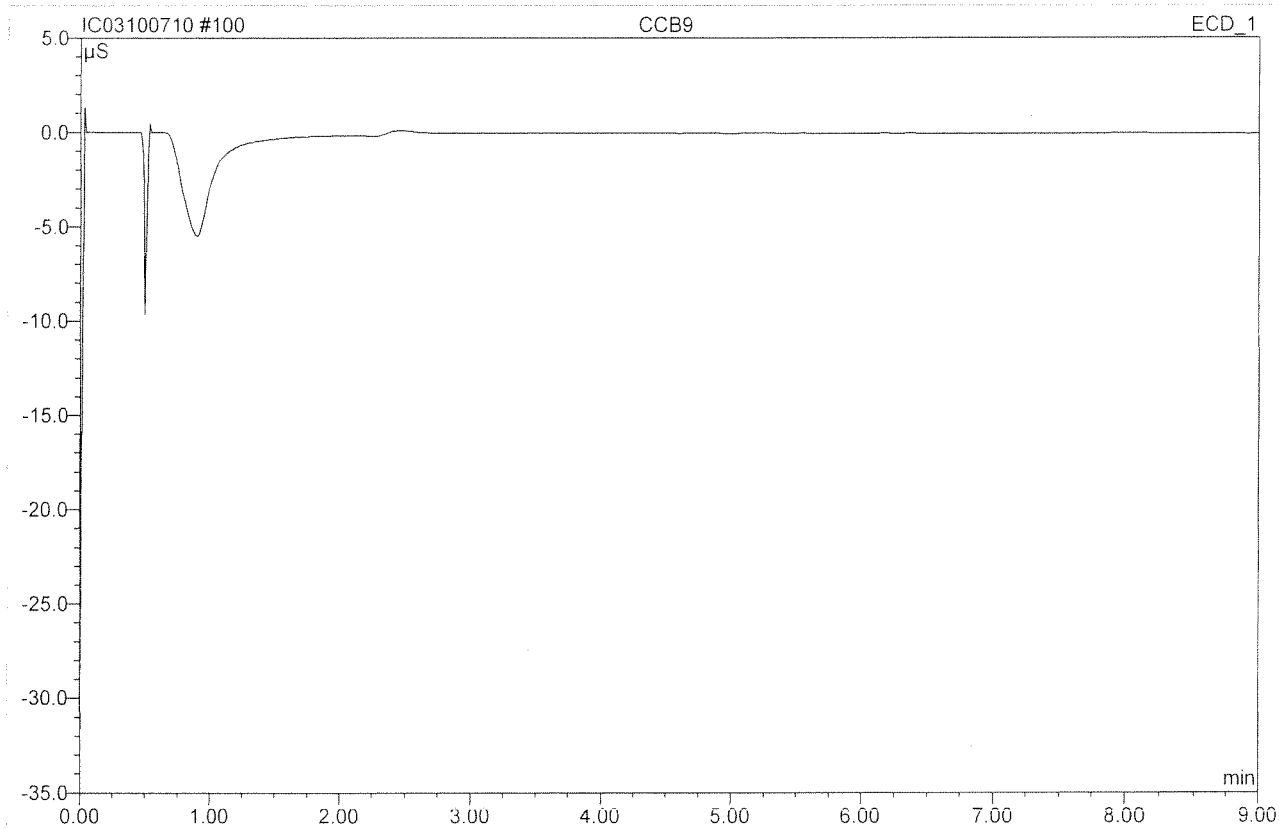
default/Integration

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

# 100 CCB9

## CCB9

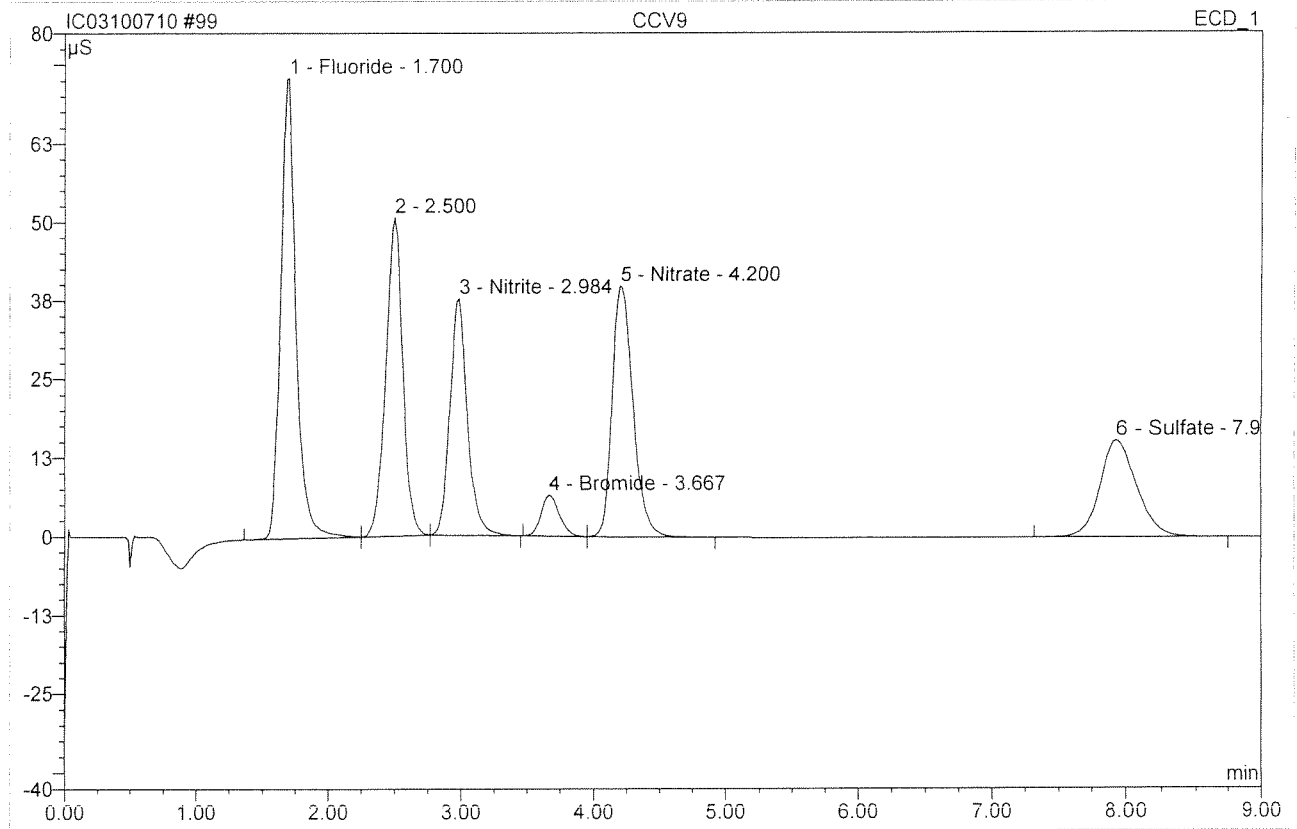
Sample Name:	CCB9	Injection Volume:	200.0
Vial Number:	99	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



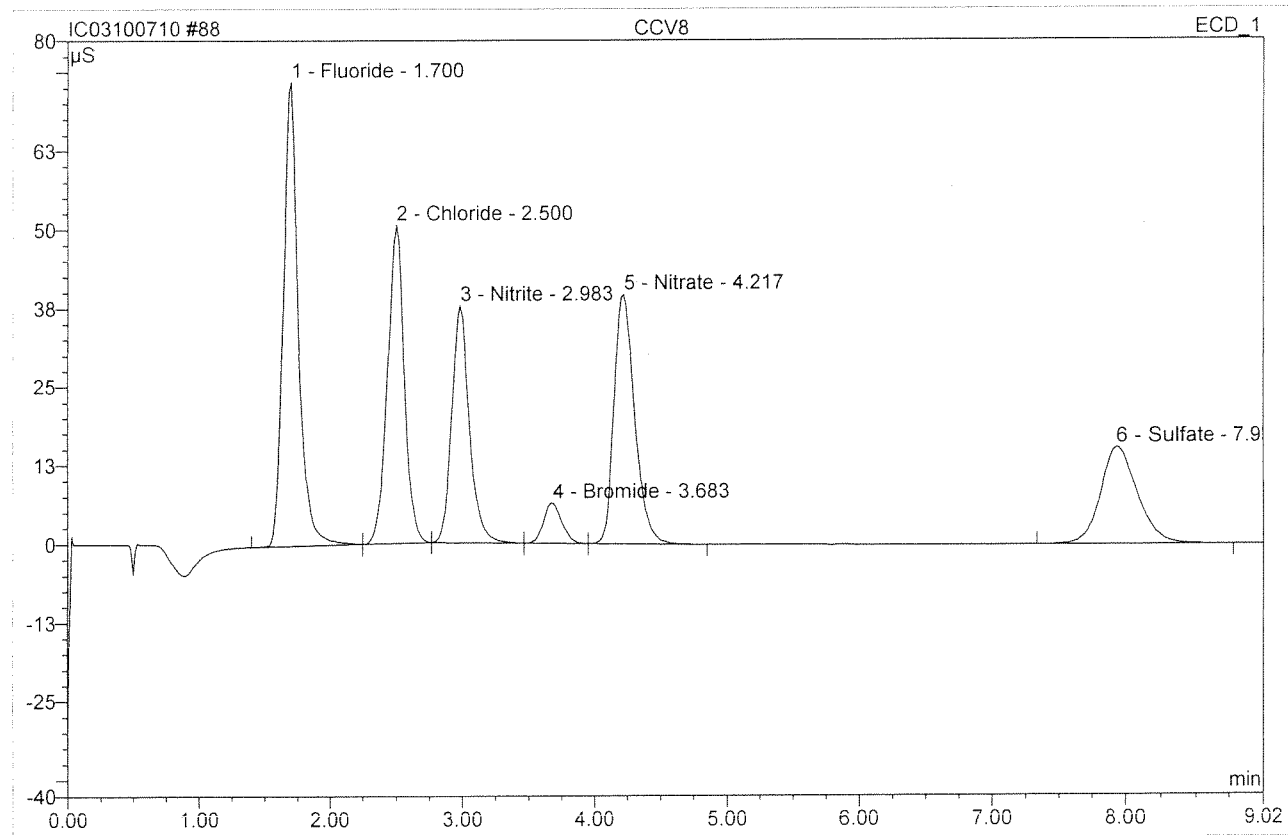
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.255	9.844	27.29	5.270	BMb
2	2.50	n.a.	50.664	7.399	20.52	n.a.	bMb
3	2.98	Nitrite	37.592	5.753	15.95	1.807	bMB
4	3.67	Bromide	6.520	1.032	2.86	1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.09	1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.29	4.819	BMB
<b>Total:</b>			223.281	36.064	100.00	15.784	

Before

OCT 08 2010

*K. O. Oke*

<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:30	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000

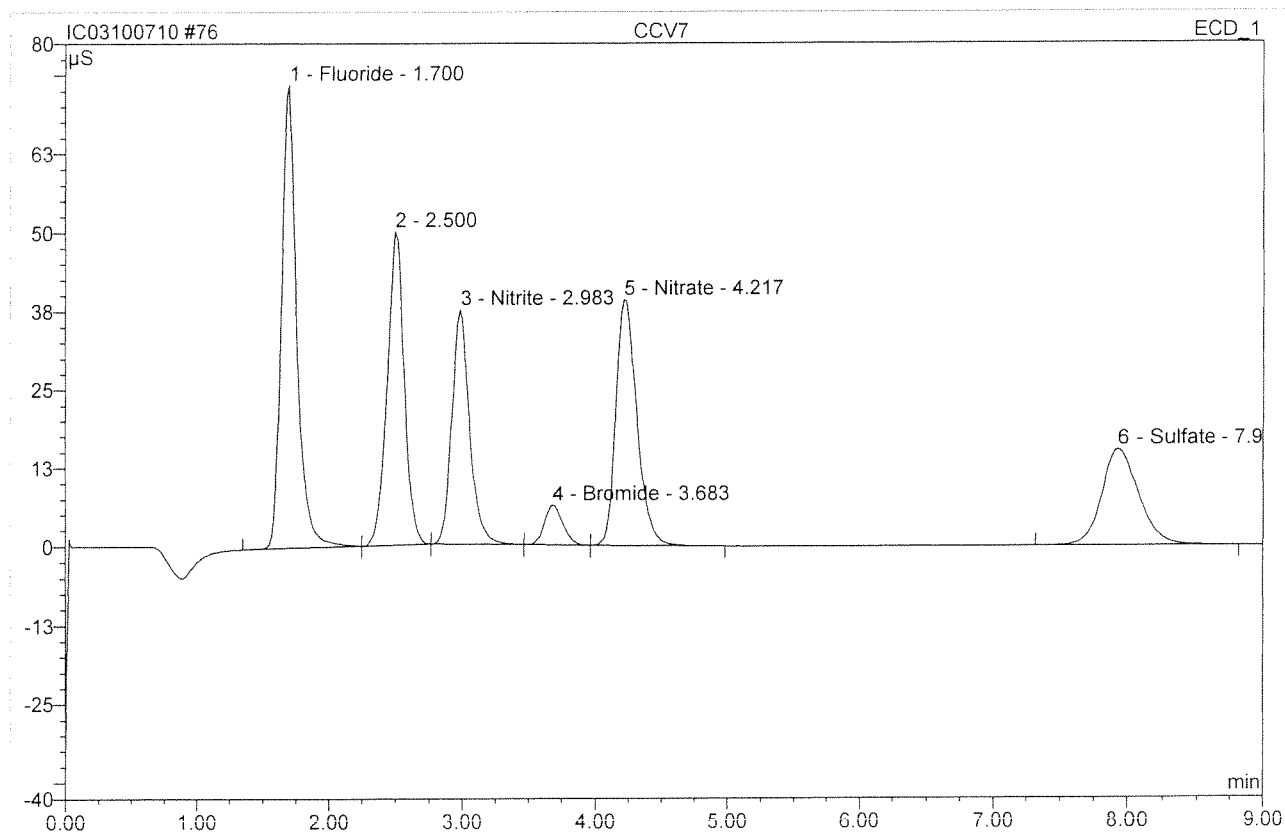


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.789	9.879	27.35	5.290	BMb
2	2.50	Chloride	50.630	7.413	20.52	4.775	bMb
3	2.98	Nitrite	37.654	5.782	16.00	1.816	bMb
4	3.68	Bromide	6.429	1.029	2.85	1.943	bMb
5	4.22	Nitrate	39.711	7.178	19.87	1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.41	4.873	BMB
<b>Total:</b>			223.599	36.127	100.00	20.619	

Before

OCT 08 2010

<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

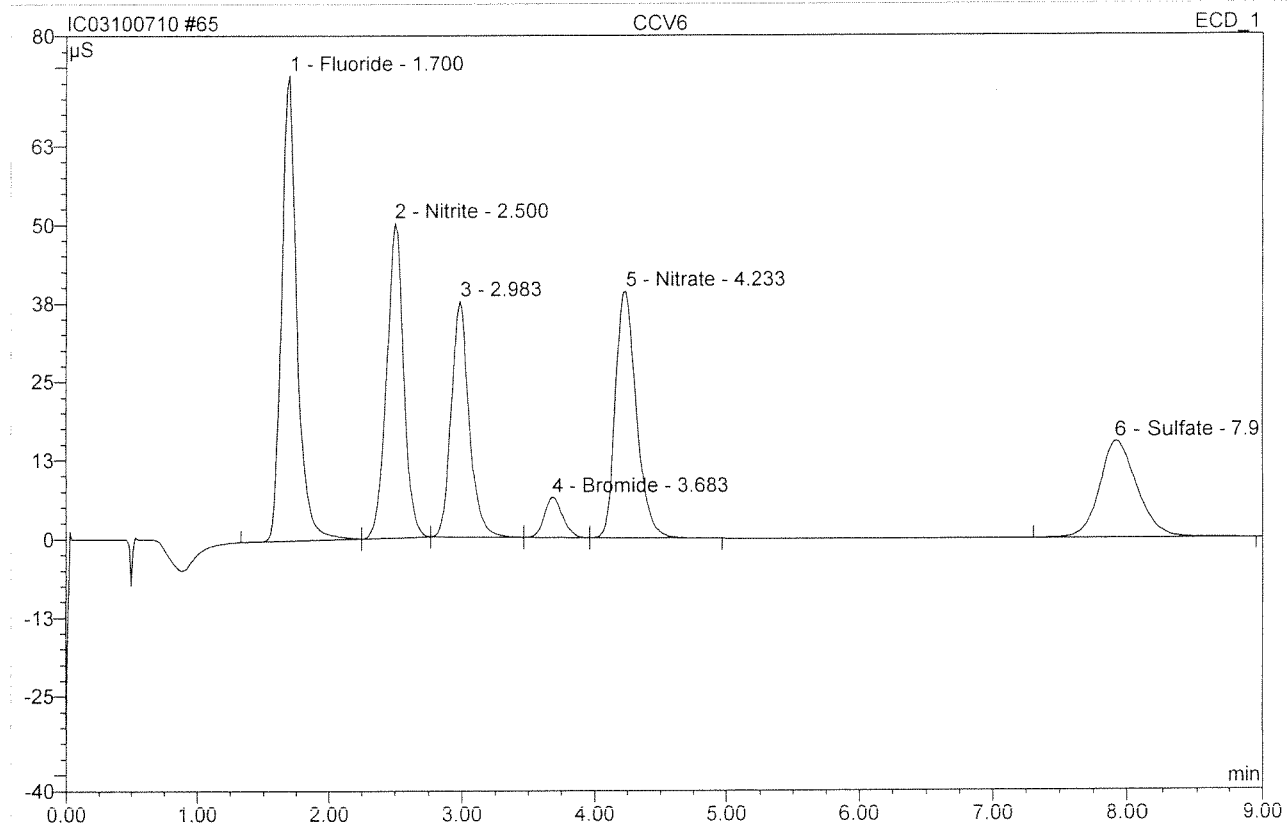


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.720	9.897	27.39	5.299	BMb
2	2.50	n.a.	49.968	7.366	20.38	n.a.	bMb
3	2.98	Nitrite	37.379	5.775	15.98	1.814	bMb
4	3.68	Bromide	6.423	1.025	2.84	1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.03	1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.38	4.864	BMB
<b>Total:</b>			222.124	36.138	100.00	15.850	

Before

OCT 08 2010

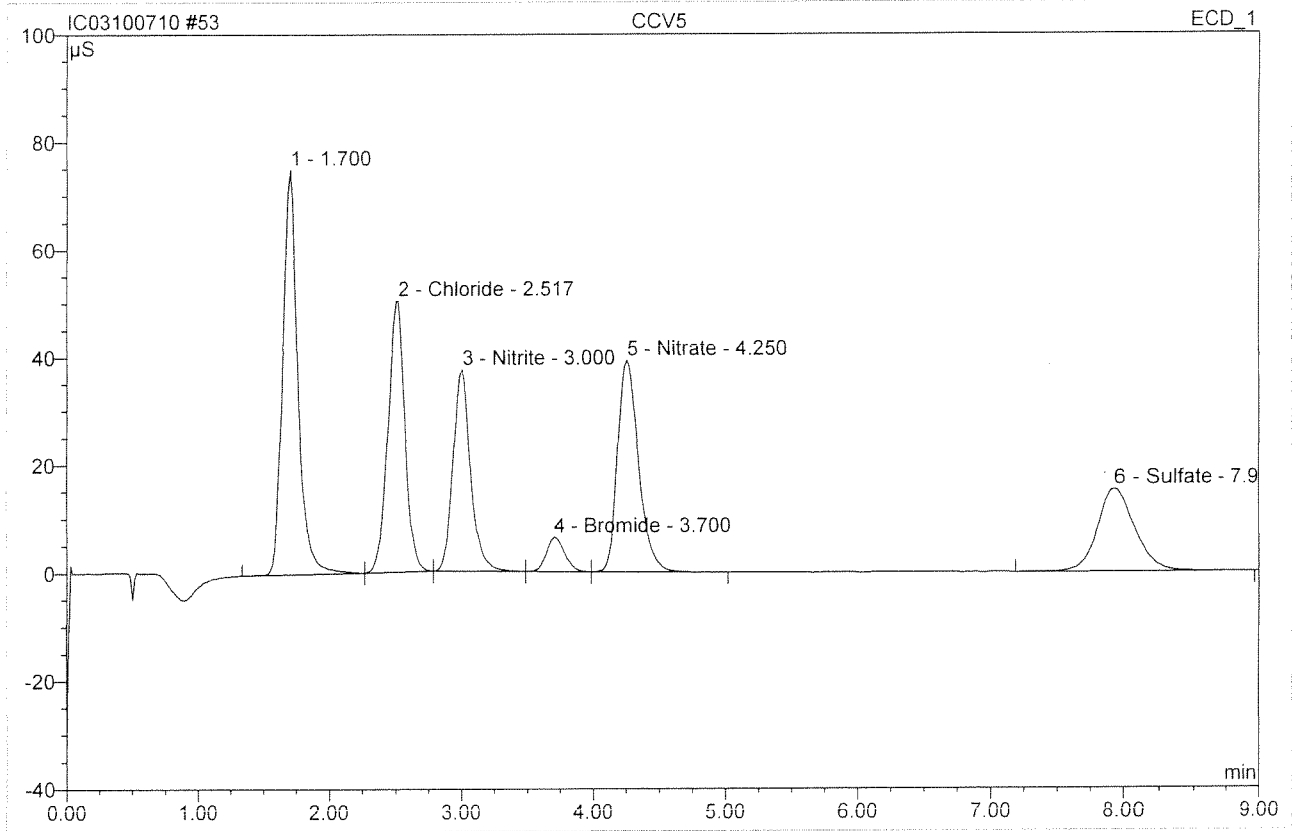
<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.026	9.944	27.44	5.324	BMB
2	2.50	Nitrite	50.090	7.401	20.42	2.324	bMb
3	2.98	n.a.	37.466	5.758	15.89	n.a.	bMb
4	3.68	Bromide	6.398	1.030	2.84	1.943	bMb
5	4.23	Nitrate	39.241	7.242	19.98	1.940	bMB
6	7.92	Sulfate	15.352	4.865	13.43	4.893	BMB
<b>Total:</b>		<b>Before</b>	222.573	36.240	100.00	16.424	

OCT 08 2010

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

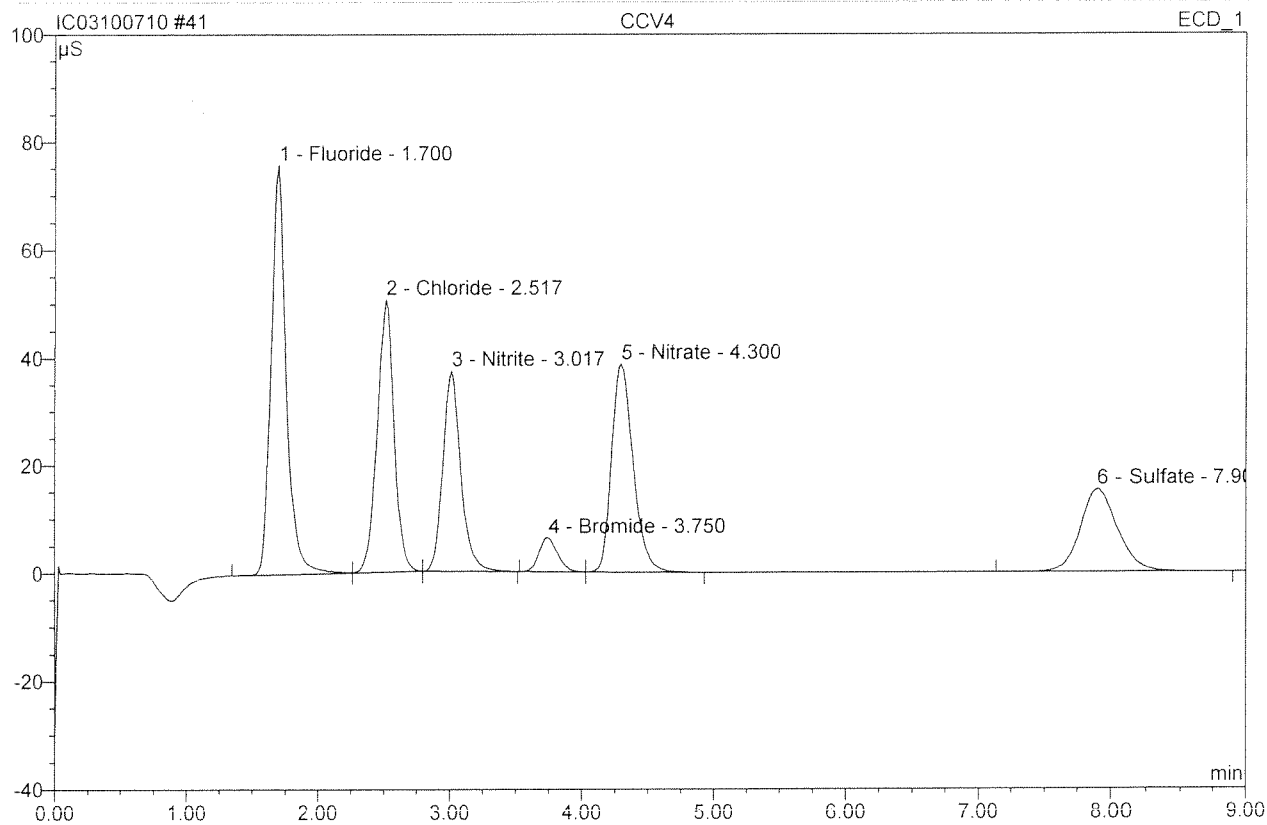


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	n.a.	75.100	10.049	27.59	n.a.	BMb
2	2.52	Chloride	50.316	7.442	20.43	4.794	bMb
3	3.00	Nitrite	37.435	5.786	15.89	1.817	bMb
4	3.70	Bromide	6.363	1.028	2.82	1.941	bMb
5	4.25	Nitrate	39.296	7.237	19.87	1.939	bMB
6	7.93	Sulfate	15.422	4.879	13.39	4.906	BMB
<b>Total:</b>			223.933	36.421	100.00	15.397	

Before

OCT 08 2010

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



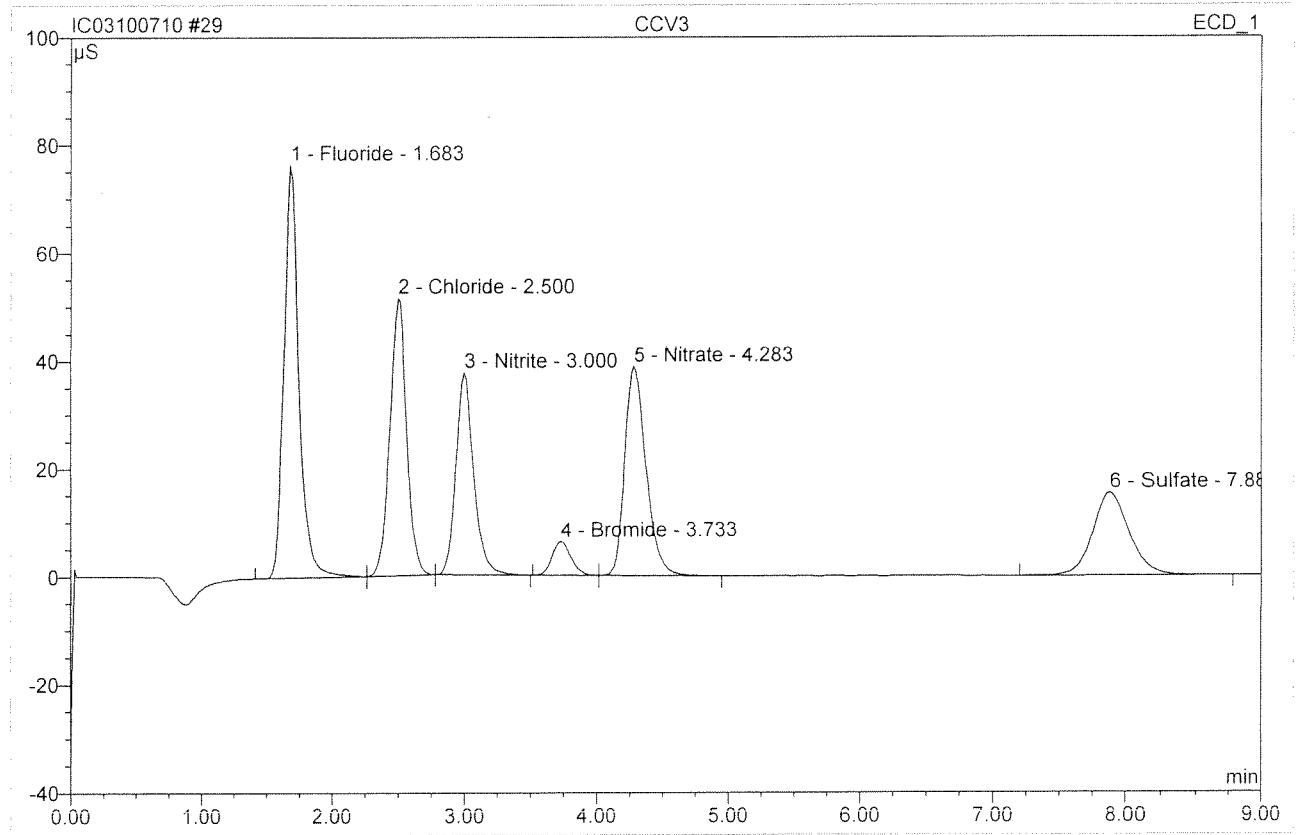
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.967	10.143	27.67	5.431	BMb
2	2.52	Chloride	50.578	7.486	20.42	4.822	bMb
3	3.02	Nitrite	37.308	5.838	15.92	1.833	bMB
4	3.75	Bromide	6.318	1.027	2.80	1.937	BMb
5	4.30	Nitrate	38.747	7.284	19.87	1.951	bMB
6	7.90	Sulfate	15.332	4.886	13.33	4.914	BMB
<b>Total:</b>			224.252	36.664	100.00	20.889	

Before

OCT 08 2010



<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

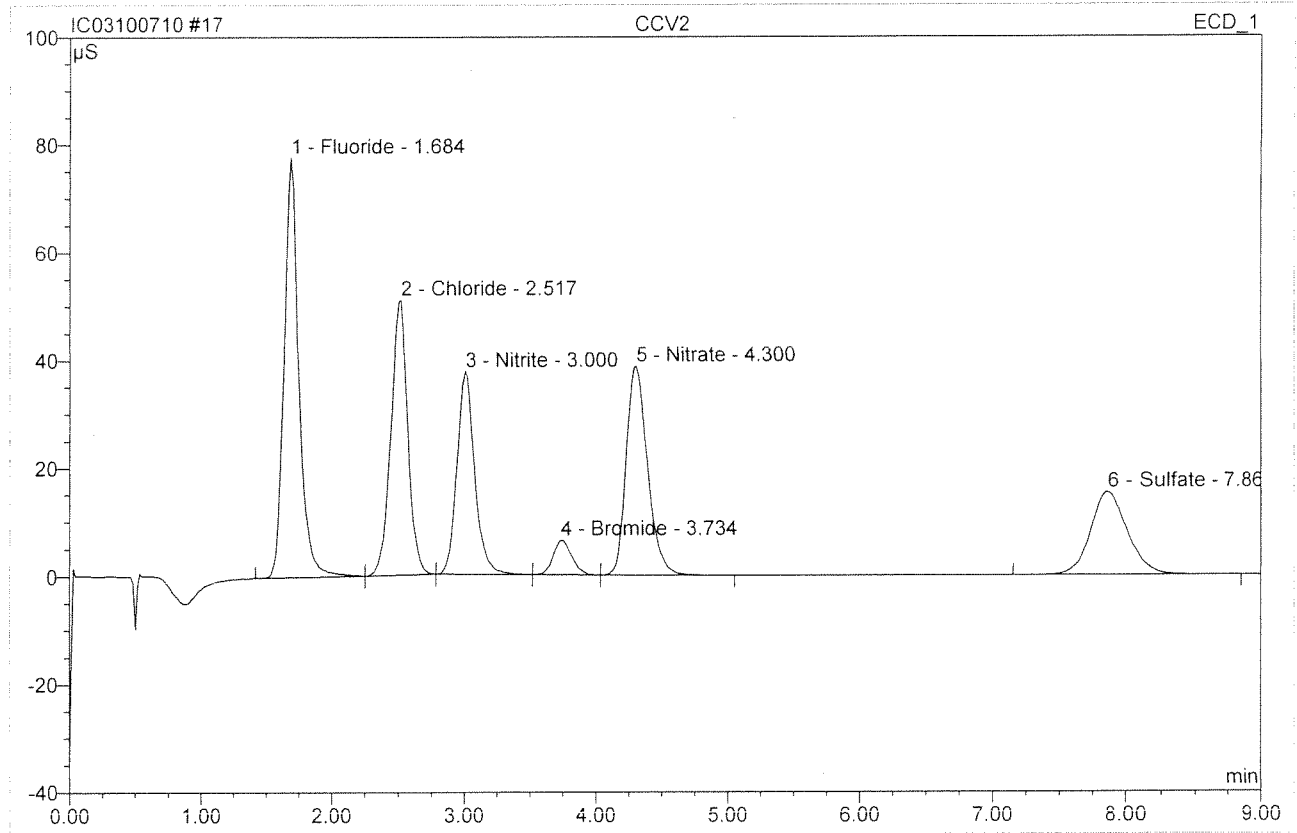


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.553	10.129	27.63	5.423	BMB
2	2.50	Chloride	51.416	7.466	20.37	4.810	bMb
3	3.00	Nitrite	37.524	5.863	15.99	1.841	bMB
4	3.73	Bromide	6.356	1.034	2.82	1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.90	1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.29	4.899	BMB
<b>Total:</b>			226.072	36.660	100.00	20.880	

Before

OCT 08 2010

<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

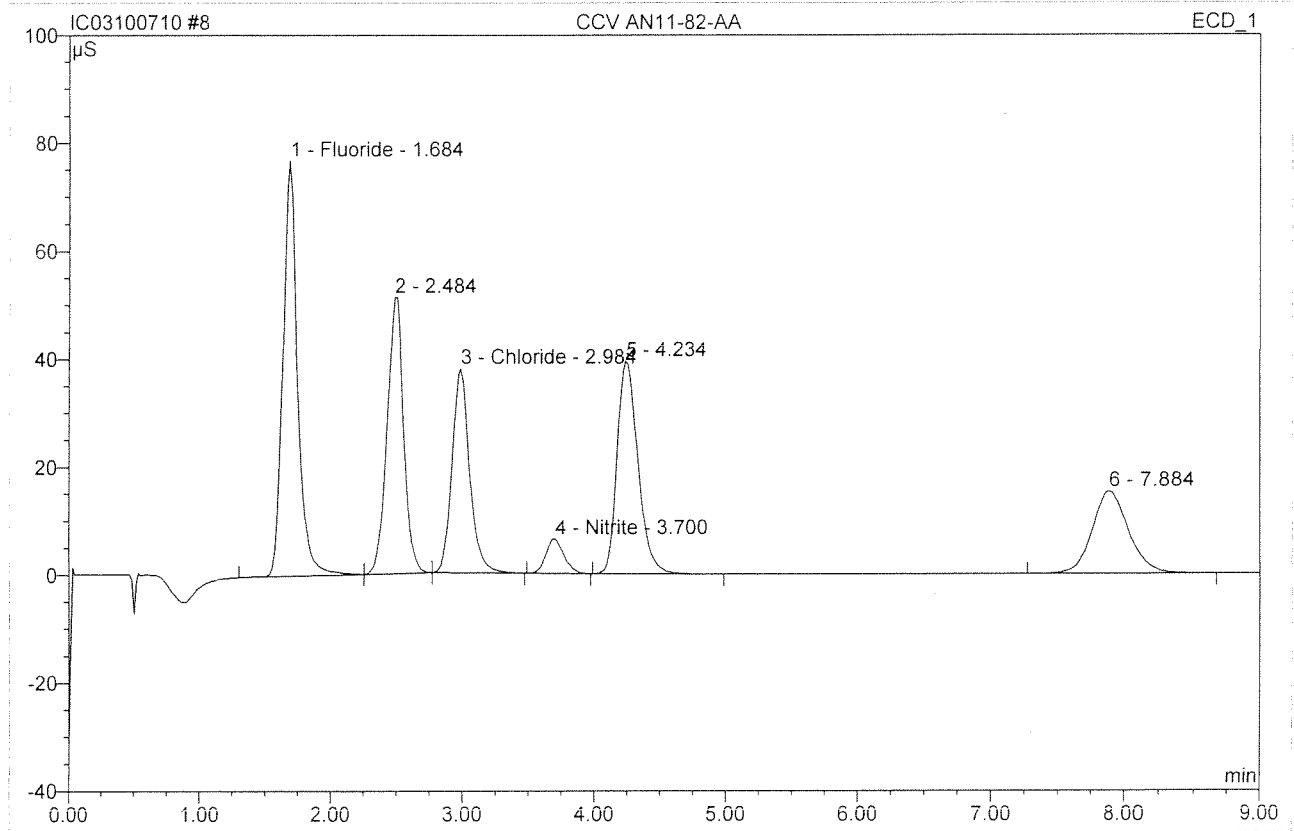


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.761	10.256	27.82	5.491	BMb
2	2.52	Chloride	50.996	7.527	20.42	4.849	bMb
3	3.00	Nitrite	37.589	5.845	15.86	1.836	bMb
4	3.73	Bromide	6.369	1.041	2.82	1.965	bMb
5	4.30	Nitrate	38.664	7.277	19.74	1.949	bMB
6	7.87	Sulfate	15.414	4.914	13.33	4.942	BMB
<b>Total:</b>			226.793	36.861	100.00	21.032	

Before

OCT 08 2010

<b>8 CCV AN11-82-AA</b>			
Sample Name:	CCV AN11-82-AA	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

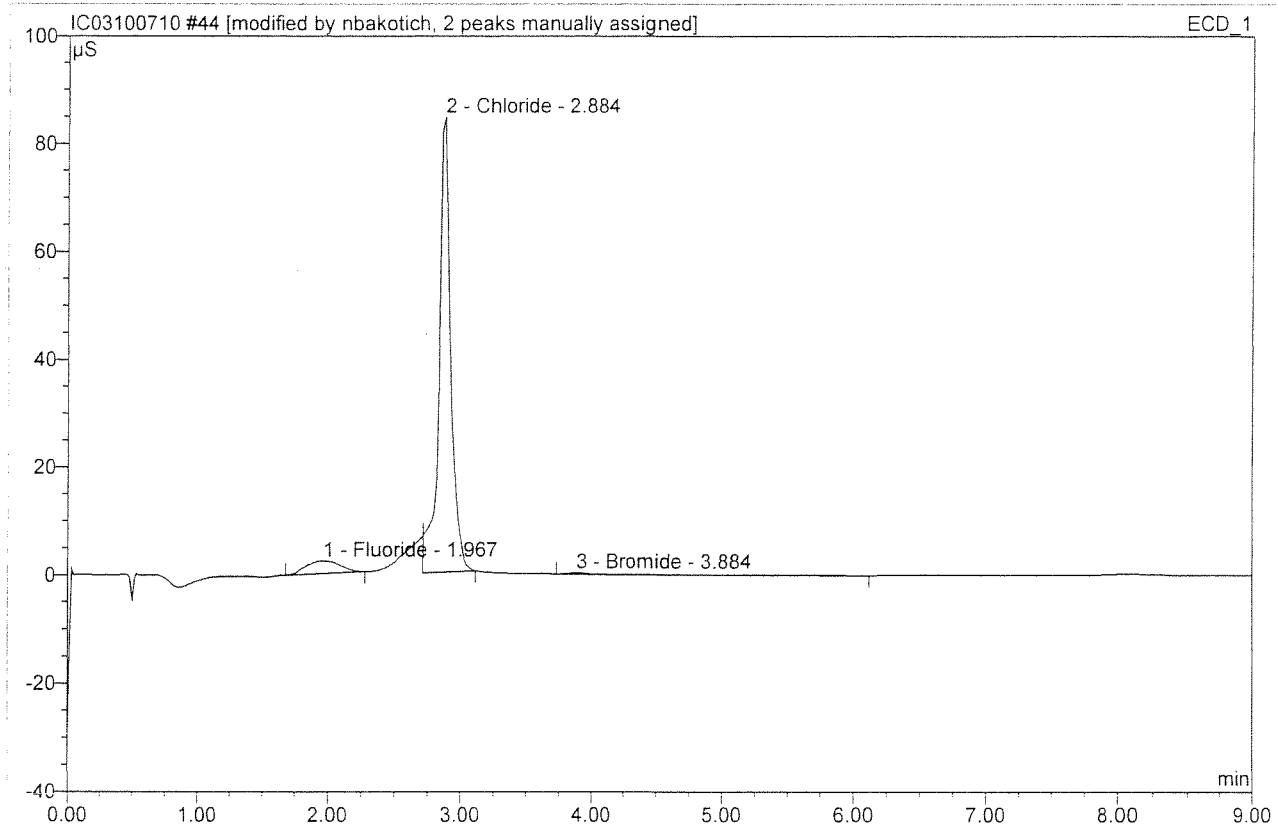


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	76.903	10.004	27.48	5.356	BMb
2	2.48	n.a.	51.241	7.454	20.48	n.a.	bMb
3	2.98	Chloride	37.906	5.829	16.01	3.755	bMB
4	3.70	Nitrite	6.369	1.024	2.81	0.322	BMB
5	4.23	n.a.	39.419	7.225	19.85	n.a.	BMB
6	7.88	n.a.	15.376	4.866	13.37	n.a.	BMB
<b>Total:</b>			227.214	36.401	100.00	9.433	

Before

OCT 08 2010

<b>44 K1011162-003</b>			
Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 16:06	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride $\bar{x}=0.73$ RPD=7	2.328	0.703	7.37	0.753	BMB**^
2	2.88	Chloride $\bar{x}=11.7$ RPD=8	84.206	8.771	91.89	11.300	MB**^
3	3.88	Bromide	0.201	0.071	0.74	0.267	BMB*
<b>Total:</b>			86.735	9.545	100.00	12.320	

$NO_2 < 0.10$   $< 0.10$  RPD  
 $NO_3 \downarrow$   $< 0.10$   
 $SO_4 < 0.20$   $< 0.20$

After Initials AB

OCT 08 2010

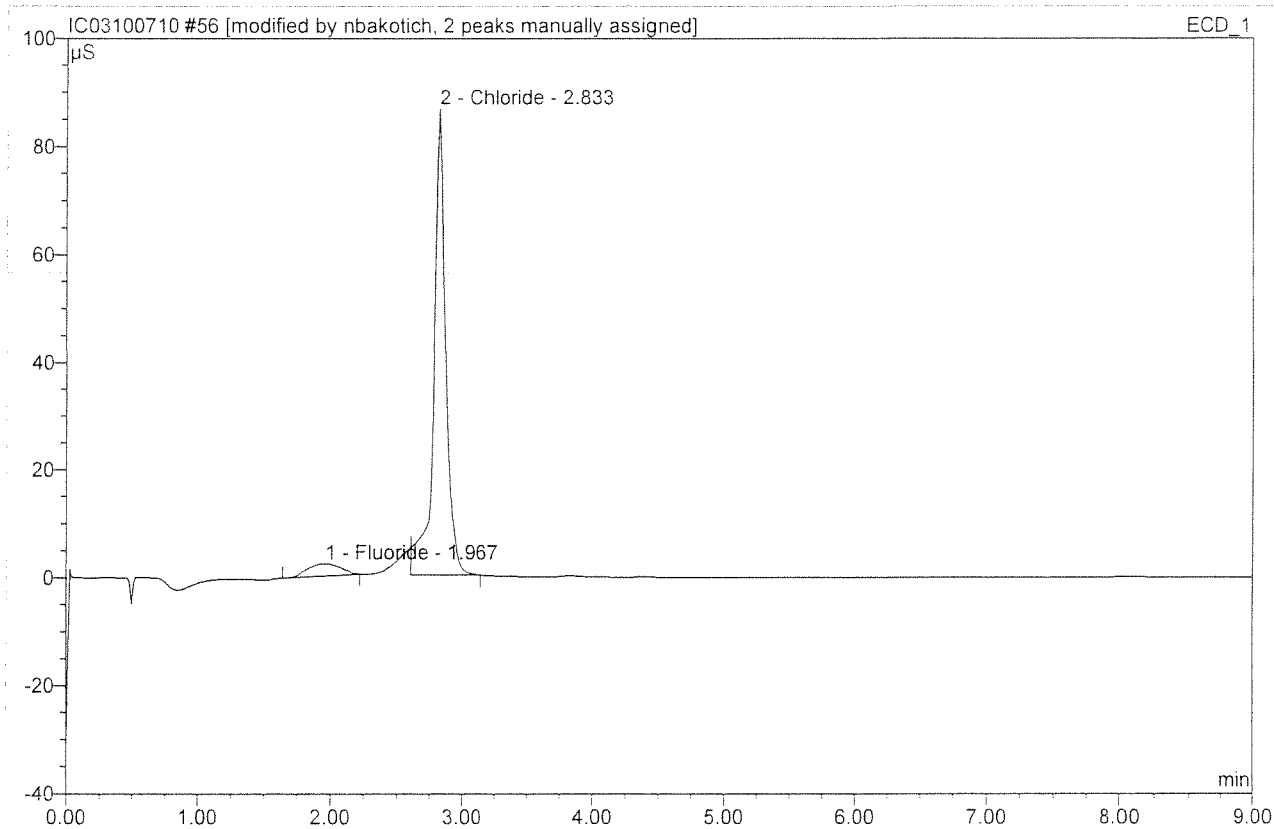
*Handwritten signature*

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

### 56 K1011162-003

D

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 18:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	2.266	0.656	6.58	0.702	BMB*^
2	2.83	Chloride	86.410	9.308	93.42	11.992	MB*^
<b>Total:</b>			88.675	9.963	100.00	12.694	

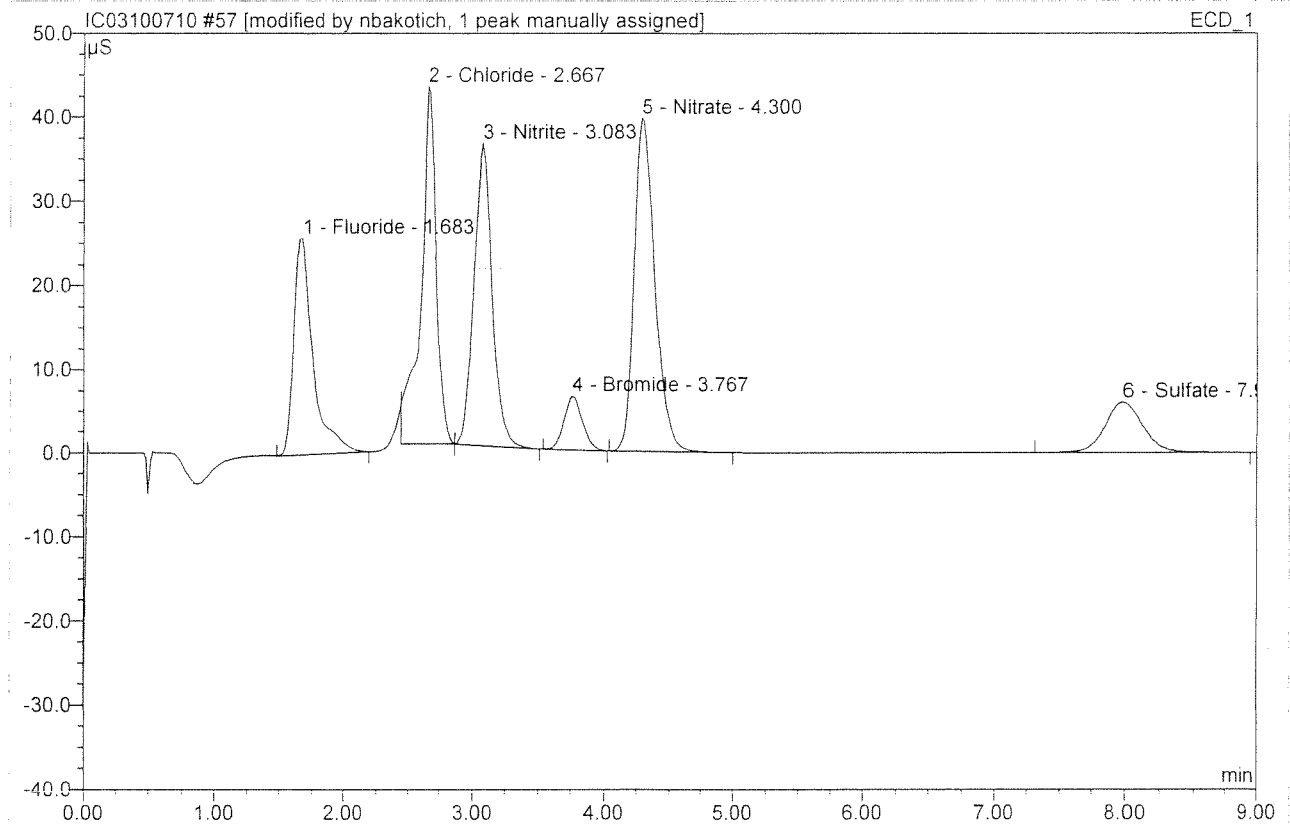
NO<sub>2</sub> < 0.10  
NO<sub>3</sub> ✓  
SO<sub>4</sub> < 0.20

After Initials

OCT 08 2010

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other

<b>57 K1011162-003</b>			
<b>MS</b>			
Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 18:35	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride <i>REC=117</i>	25.855	4.448	16.66	11.907	BMB*^
2	2.67	Chloride <i>REC=81</i>	42.556	6.018	22.55	19.385	Mb*
3	3.08	Nitrite <i>REC=91</i>	35.993	5.803	21.74	9.112	bMB
4	3.77	Bromide <i>REC=97</i>	6.484	1.060	3.97	10.000	BMB
5	4.30	Nitrate <i>REC=99</i>	39.681	7.418	27.79	9.936	BMB
6	7.98	Sulfate <i>REC=98</i>	6.057	1.947	7.29	9.790	BMB
<b>Total:</b>			156.627	26.694	100.00	70.131	

*spt w/ 10*

After Initials     ND    

OCT 08 2010

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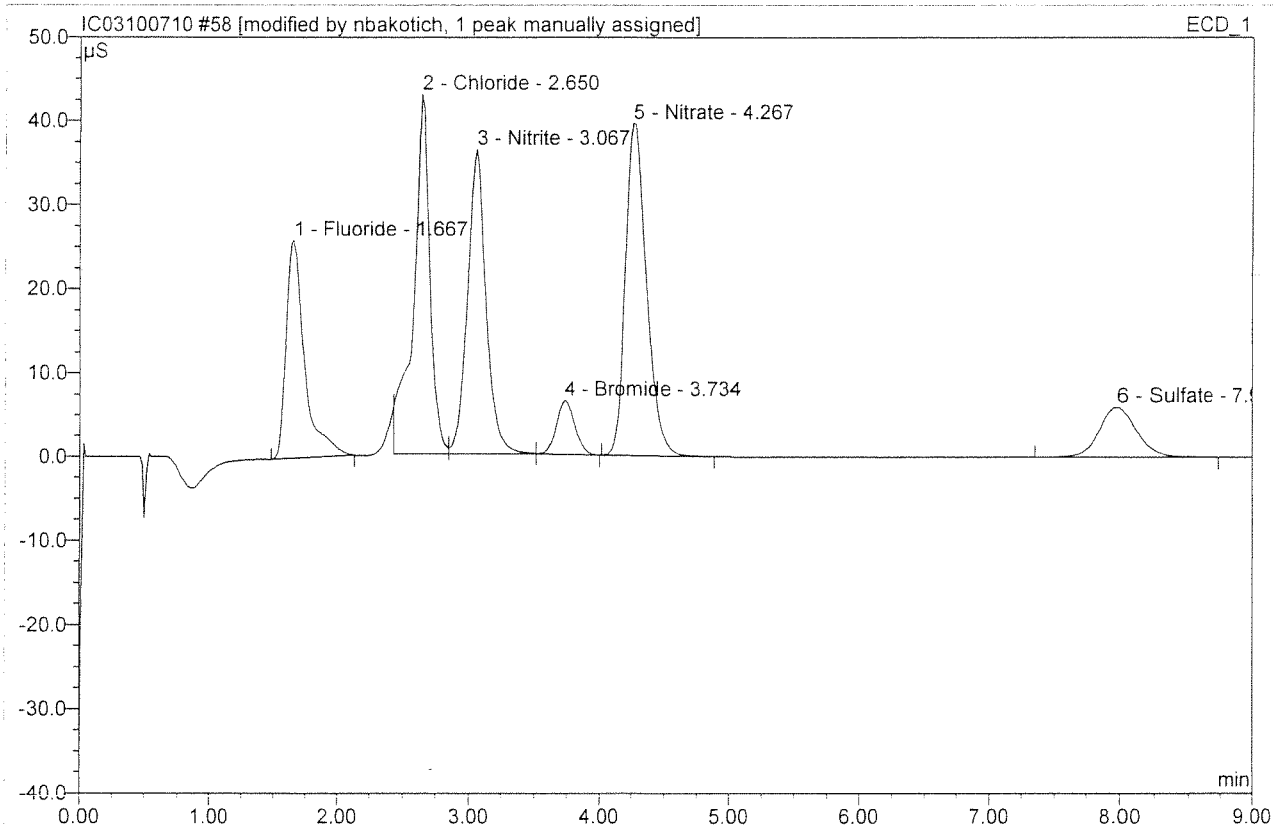
Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other \_\_\_\_\_

default/Integration

### 58 K1011162-003

#### MSD

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride <i>REC=110</i>	25.970	4.360	16.22	11.671	BMB*^
2	2.65	Chloride <i>REC=88</i>	42.781	6.225	23.16	20.052	M *
3	3.07	Nitrite <i>REC=94</i>	36.238	5.963	22.19	9.363	Mb*
4	3.73	Bromide <i>REC=99</i>	6.432	1.046	3.89	9.875	bMB
5	4.27	Nitrate <i>REC=99</i>	39.578	7.364	27.40	9.864	BMB
6	7.98	Sulfate <i>REC=96</i>	6.017	1.919	7.14	9.648	BMB
<b>Total:</b>			157.016	26.877	100.00	70.473	

*Spk M1  
10*

Alter Initials         

OCT 08 2010

*10/10/10*

Original  
 Work Request # (K10795) K10850 K10899 K11021 K11023 K11025 K11032  
 Tier: III III III II I II II  
 Date Analyzed: 10/13/10 K11236 K11242  
 Analyst: Houngmy II II  
 Analysis: NH<sub>3</sub>-N - 350.1/SM 4500-NH<sub>3</sub>G

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 10/14/10 DQREPORT



# Analytical Results Summary

Instrument Name: K-FLA-01      Analyst: THANGANU      Analysis Lot: 220569      Method/Testcode: 350.1/Ammonia D

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
010795-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010795-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010795-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
040850-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
040850-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
040850-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.43 mg/L	5 mL	0.432 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
040850-004	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010899-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010899-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011021-001	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011023-001	Ammonia as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011023-001	Ammonium as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011025-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011032-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011236-001	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	V
011242-001	Ammonia as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-01	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-01	Ammonia as Nitrogen, Dissolved	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-01	Ammonium as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen, Dissolved	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonium as Nitrogen	LCS		Water	1.46 mg/L	5 mL	1.46 mg/L	1	0.020	0.050	102		10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III

Final Result is not yet adjusted for Solids because it has not yet been determined.

10/13/10  
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# Analytical Results Summary

Instrument Name: K-FLA-01

Analyst: THANGANU

Analysis Lot: 220569

Method/Testcode: SM 4500-NH3 G/Ammonia

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-05	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-05	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-06	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-06	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N III
1011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-07	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-07	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-08	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-08	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N III
1011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-09	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-09	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-10	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-10	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N III
1011076-11	Ammonia as Nitrogen, Dissolved	MS	K11010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.020	0.050	102		10/13/10 10:10:35	N III
1011076-12	Ammonia as Nitrogen, Dissolved	DMS	K11010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.020	0.050	102		10/13/10 10:10:35	N III
1011076-13	Ammonia as Nitrogen, Dissolved	DUP	K11010795-001	Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N III

LES ID#: B7L NH<sub>3</sub>/ - 35-H  
 Spike ID#: B7L NH<sub>3</sub>/ - 86-D  
 Curve, CV ID#: B7L NH<sub>3</sub>/ - 56-X  
 T.V. = 14.3  
 T.V. = 2.00  
 T.V. = 2.00  
 MBS MS = 2.00

10/13/10  
 Ferguson

# BRAN+LUEBBE

Post-run report

Name of Run : 101013A  
 Date of Report : 10/13/2010  
 Date of Run : 10/13/2010  
 Operator :  
 Comment :

Name of Analysis : Ammonia  
 System No. : 1  
 Type of System : AA3  
 Start/Stop time : 10:10 - 11:13

Channel : 2  
 Method : Method 2  
 Unit : mg/L  
 Calibr. Fit : Linear  
 Corr. Coeff. : 1.0000  
 Base : -18318  
 Gain : 19  
 Sensitivity : 0.4576  
 Sample Limit 1 :  
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0057
1	1	P Primer	4.9962
2	1	D Drift	4.9950
3	1	C 5.00	4.9943
4	2	C 2.00	2.0152
5	3	C 0.50	0.4951
6	4	C 0.05	0.0498
7	5	C 0	-0.0045
8	0	B Baseline	-0.0057
9	1	H1 High	5.0082
10	0	L1 Low	0.0048
11	0	L1 Low	0.0049
12	5	QC2 CCB1	0.0037
13	2	QC1 CCV1	2.0200
14	10	QC3 LCS1*10	1.4588
15	11	S MB MS	2.0291
16	0	N Null	0.0016N
17	5	QC2 MB1	0.0037
18	12	S k1010795-001	0.0007
19	13	S k1010795-001d	0.0020
20	14	S k1010795-001ms <i>Diss.</i>	2.0387
21	15	S k1010795-001msd	2.0390
22	16	S k1010795-002	0.0023
23	0	B Baseline	-0.0057
24	5	QC2 CCB2	0.0031
25	2	QC1 CCV2	2.0187
26	17	S k1010795-003 <i>-Diss</i>	-0.0003

*10/13/10*  
*Ffauy*

27	18	S	k1010850-001	0.0151
28	19	S	k1010850-002	0.0016
29	20	S	k1010850-003	0.4315
30	21	S	k1010850-004	0.0001
31	22	S	k1010899-001	0.0084
32	23	S	k1010899-002	0.0001
33	24	S	k1011021-001	0.0209
34	25	S	k1011023-001*5	2.1033
35	0	B	BASELINE	-0.0057
36	5	QC2	CCB-3	-0.0037
37	2	QC1	CCV-3	2.0069
38	26	S	k1011025-001	0.0121
39	27	S	k1011032-001	0.0074
40	28	S	k1011217-002	11.0048* <sup>HR</sup>
41	29	S	k1011228-001	0.0654
42	30	S	k1011236-001	0.0104
43	31	S	k1011242-001	0.0339
44	0	B	Baseline	-0.0057
45	5	QC2	CCB4	-0.0035
46	2	QC1	CCV4	2.0103
47	1	D	Drift	4.9950
48	0	B	Baseline	-0.0057
49	0	B	FinalBase	-0.0057

## QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

## CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed

10/13/10  
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Post-run Report

N ... Value not calculated or not used

R ... Resample after offscale

M ... Peak marker moved manually

D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/13/10  
Ferguson

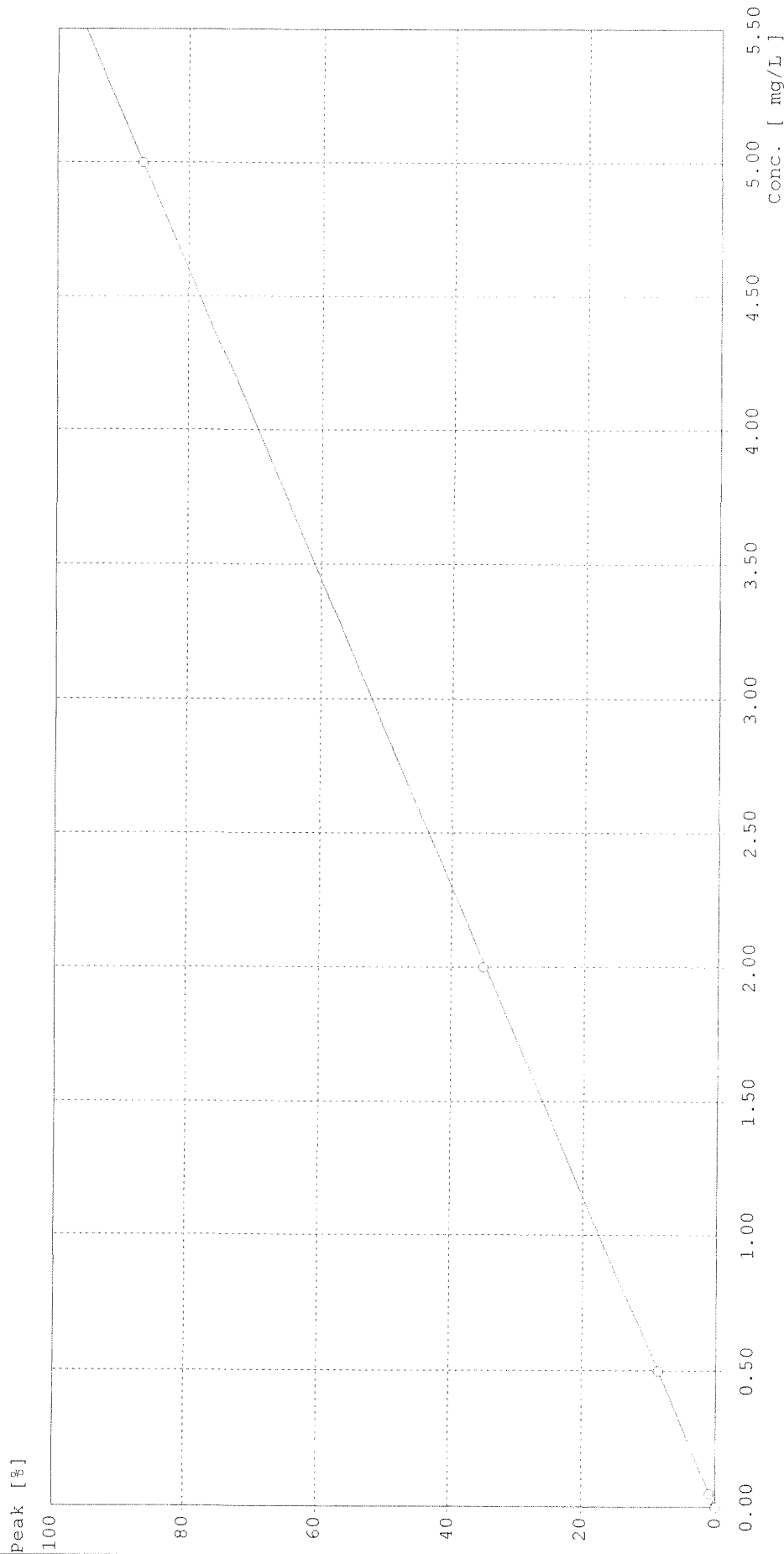
# BRAN+LUEBBE

Calibration Curve

Name of run : 101013A.run  
Comment :

Name of analysis : Ammonia

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.0827E-001      b=8.7765E-005  
Corr. coeff. : 1.0000



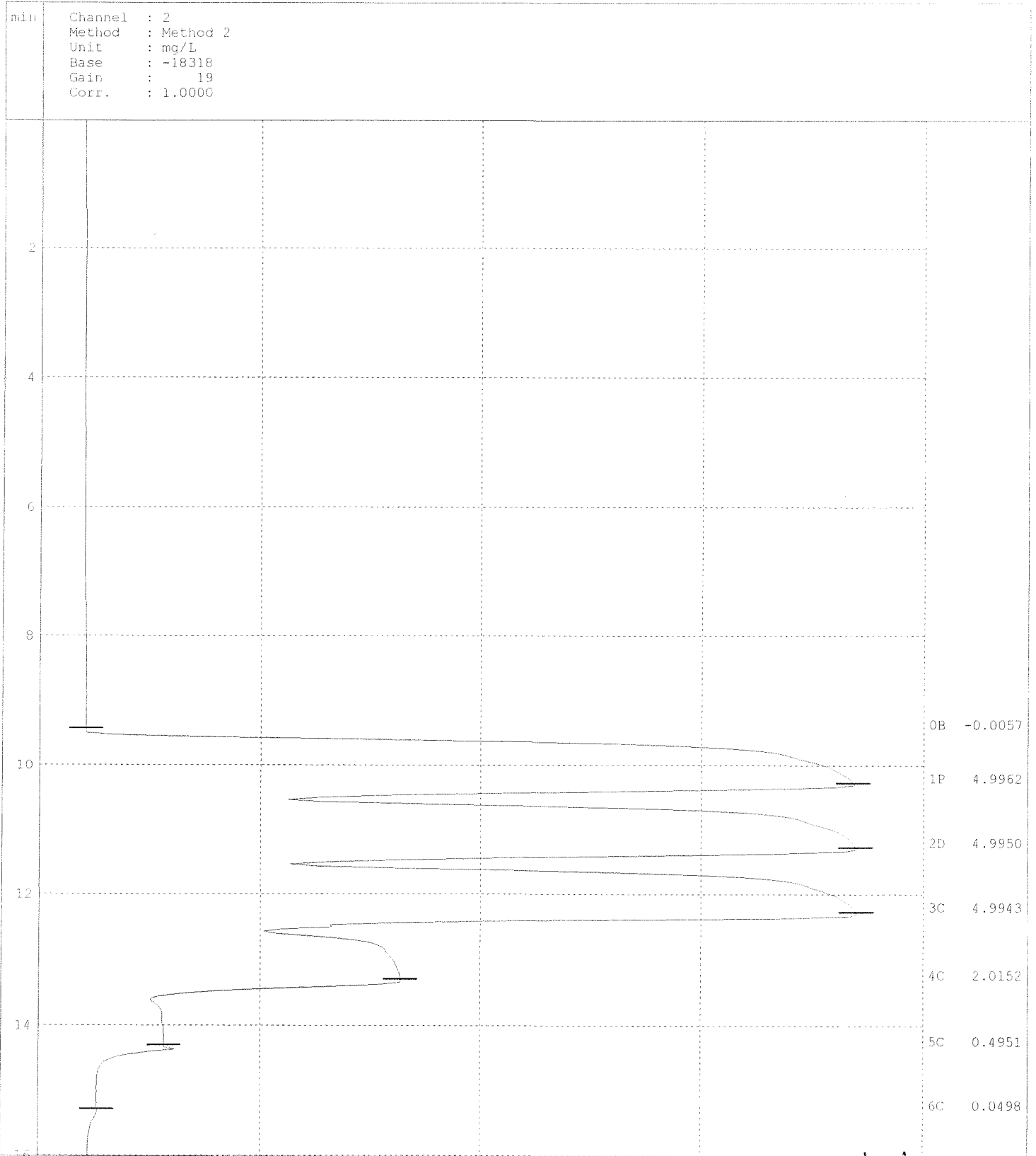
10/13/10  
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# BRAN+LUEBBE

Post-run chart

Name of run :101013A.RUN  
Comment :

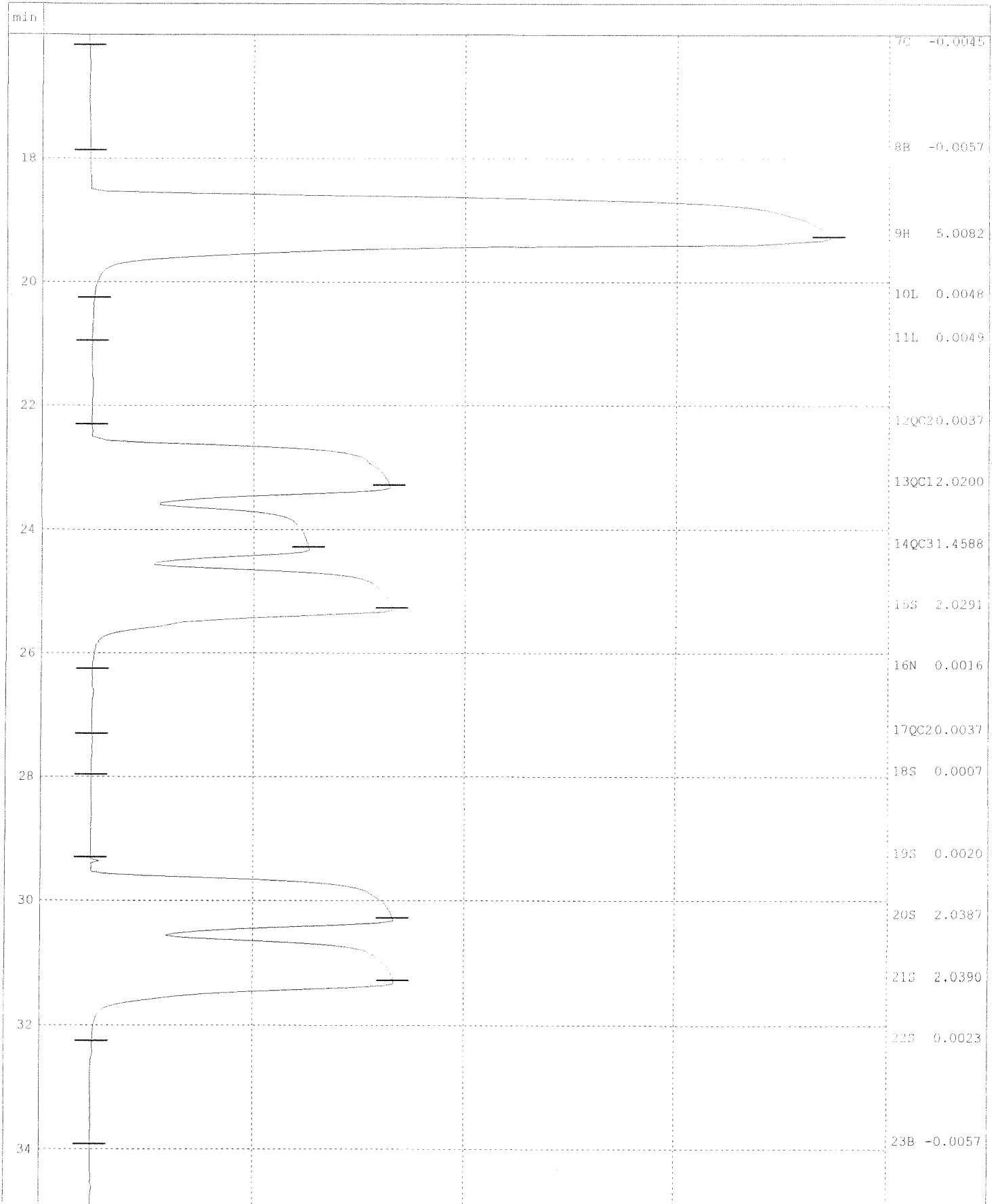
Name of analysis :Ammonia



10/13/10  
Ferguson

Name of run :101013A.RUN  
Comment :

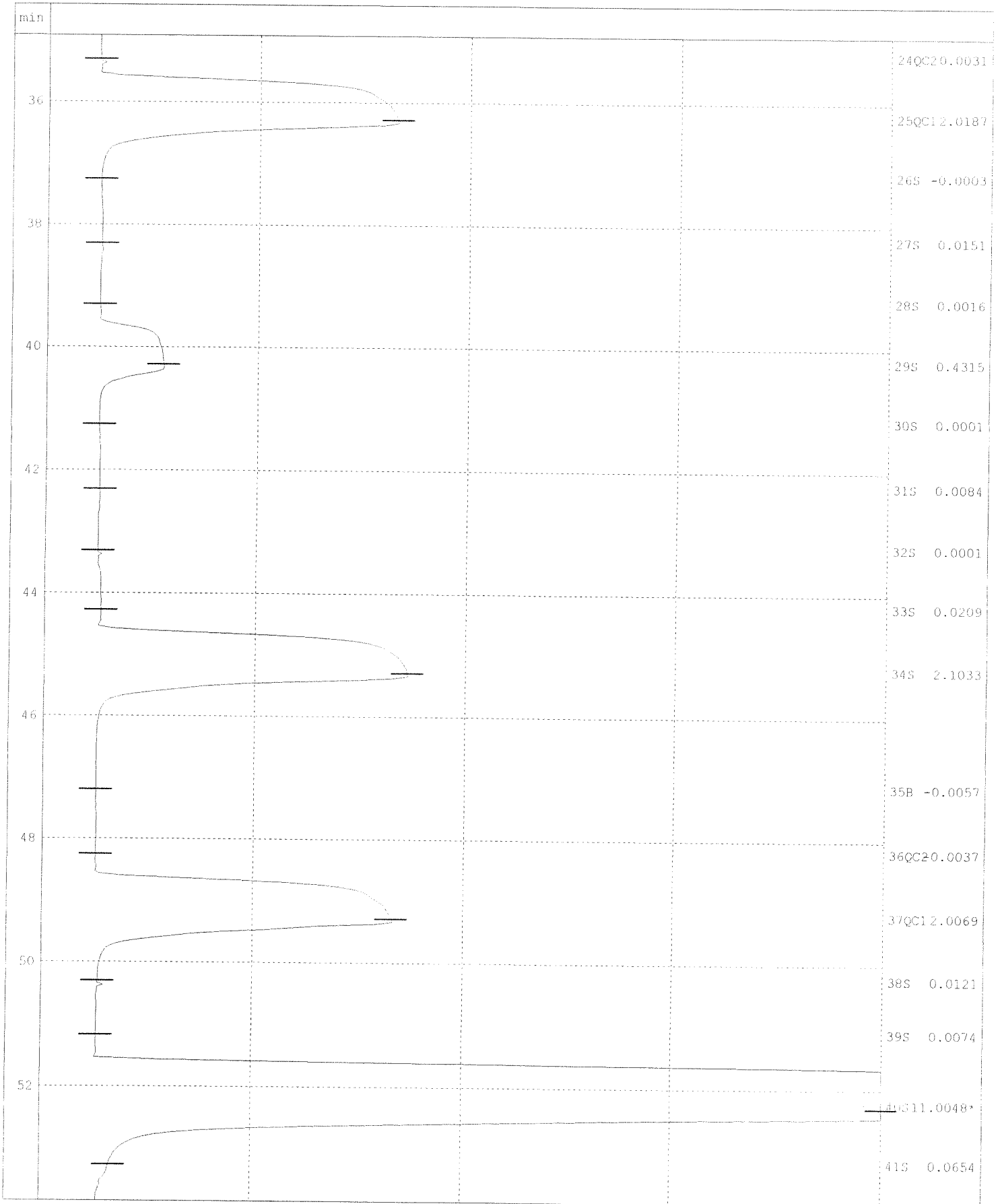
Name of analysis :Ammonia





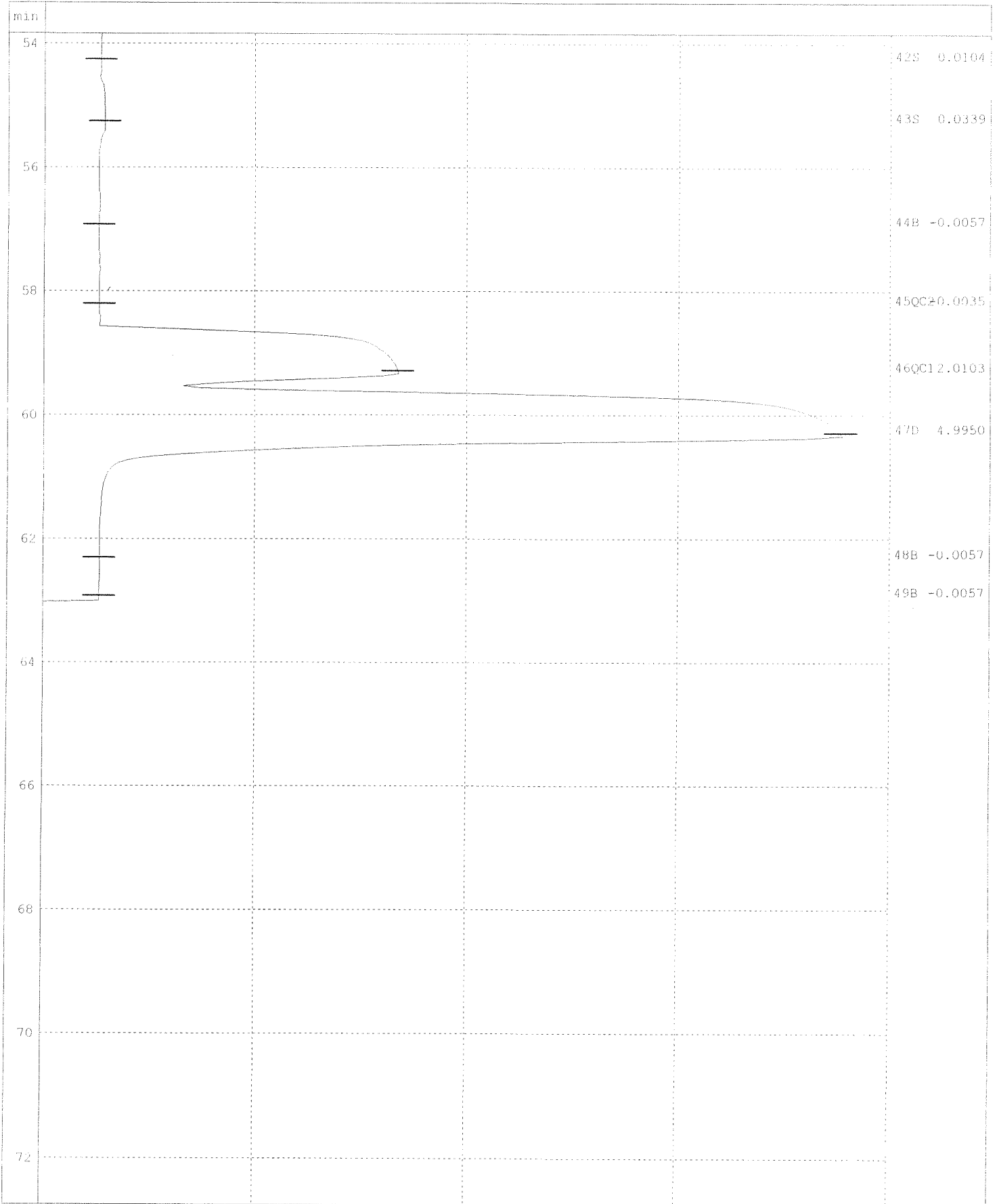
Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Original  
 Work Request # ( K10890 ) \_\_\_\_\_  
 Tier: III \_\_\_\_\_  
 Date Analyzed: 10/01/10 \_\_\_\_\_  
 Analyst: Fung \_\_\_\_\_  
 Analysis: NO<sub>2</sub>-N - 353.2 \_\_\_\_\_

219109

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- |     |   |  |
|-----|---|--|
| 1.  | Is the method name and number correct and appropriate?  | <input checked="" type="radio"/> yes/no/NA |
| 2.  | Holding times met for all analyses and for all samples?   | <input checked="" type="radio"/> yes/no/NA |
| 3.  | Are calculations correct?   | <input checked="" type="radio"/> yes/no/NA |
| 4.  | Is the reporting basis correct? (Dry Weight)  | <input checked="" type="radio"/> yes/no/NA |
| 5.  | All quality control criteria met?   | <input checked="" type="radio"/> yes/no/NA |
|     | a. Is the calibration curve correlation coefficient $\geq 0.995$ ?  | <input checked="" type="radio"/> yes/no/NA |
|     | b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?                                   | <input checked="" type="radio"/> yes/no/NA |
|     | c. Are ICVs, CCVs, and CCBs all within acceptance limits?   | <input checked="" type="radio"/> yes/no/NA |
|     | d. Are results for methods blanks all ND?   | <input checked="" type="radio"/> yes/no/NA |
|     | e. Are all QC samples within acceptance criteria?<br>(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)    | <input checked="" type="radio"/> yes/no/NA |
|     | f. Are all exceptions explained?  | <input checked="" type="radio"/> yes/no/NA |
| 6.  | Are all service requests that apply attached?   | <input checked="" type="radio"/> yes/no/NA |
| 7.  | Are all samples labelled correctly?   | <input checked="" type="radio"/> yes/no/NA |
| 8.  | Have all instructions on the service request been followed?<br>(e.g. Special MRLs, QC on a specific sample) | <input checked="" type="radio"/> yes/no/NA |
| 9.  | Are detection limits and units reported correctly?  | <input checked="" type="radio"/> yes/no/NA |
| 10. | Are proper Analysis/Extraction stickers included on report?   | <input checked="" type="radio"/> yes/no/NA |
| 11. | Is the unused space on the benchsheet crossed out?  | <input checked="" type="radio"/> yes/no/NA |
| 12. | Was analysis turned in by the due date? (n-2) (If not record SR#)   | <input checked="" type="radio"/> yes/no/NA |

**COMMENTS:**

Final Approved by:   *lf*   Date:   10/10/10   DQREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANTU

Analysis Lot: 219109

Method/Testcode: 353.2/NO2

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC <sup>2</sup> Tier
1010850-001	Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.026 mg/L	1	0.005	0.050			10/1/10 13:10	N III
1010850-002	Nitrite as Nitrogen	N/A		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.005	0.050			10/1/10 13:10	N III
1010850-003	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.005	0.050			10/1/10 13:10	N III
1010850-004	Nitrite as Nitrogen	N/A		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.005	0.050			10/1/10 13:10	N III
Q1010625-01	Nitrite as Nitrogen	MS	K1010850-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.005	0.050	101		10/1/10 13:10	N III
Q1010625-02	Nitrite as Nitrogen	DMS	K1010850-001	Water	2.03 mg/L	5 mL	2.03 mg/L	1	0.005	0.050	100	<1	10/1/10 13:10	N III
Q1010625-03	Nitrite as Nitrogen	DUP	K1010850-001	Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.005	0.050		8	10/1/10 13:10	N III
Q1010625-04	Nitrite as Nitrogen	MB		Water	-0.02 mg/L	5 mL	0.050 mg/L	1	0.005	0.050			10/1/10 13:10	N III
Q1010625-05	Nitrite as Nitrogen	LCS		Water	3.99 mg/L	5 mL	3.99 mg/L	1	0.005	0.050	100		10/1/10 13:10	N III
Q1010625-06	Nitrite as Nitrogen	CCB		Water	-0.03 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/1/10 13:10	N III
Q1010625-07	Nitrite as Nitrogen	CCB		Water	-0.02 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/1/10 13:10	N III
Q1010625-08	Nitrite as Nitrogen	CCB		Water	-0.02 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/1/10 13:10	N III
Q1010625-09	Nitrite as Nitrogen	CCV		Water	1.99 mg/L	100% 5 mL	1.99 mg/L	1	0.050	0.050			10/1/10 13:10	N III
Q1010625-10	Nitrite as Nitrogen	CCV		Water	2.01 mg/L	101% 5 mL	2.01 mg/L	1					10/1/10 13:10	N III
Q1010625-11	Nitrite as Nitrogen	CCV		Water	2.00 mg/L	100% 5 mL	2.00 mg/L	1					10/1/10 13:10	N III

LES ID#: AN/111-31-C T.V. = 4.00  
 Spike ID#: B+L NO<sub>3</sub>/1- 97-N T.V. = 2.00  
 Curve, CV ID#: B+L NO<sub>3</sub>/1- 69-M T.V. = 2.00

10/01/10  
 Thangant

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

K10850

# BRAN+LUEBBE

Post-run report

Name of Run : 101001D  
 Date of Report : 10/1/2010  
 Date of Run : 10/1/2010  
 Operator :  
 Comment :

Name of Analysis : Nitrite.ANL  
 System No. : 1  
 Type of System : AA3  
 Start/Stop time : 13:10 - 14:00

Channel : 2  
 Method : Method 2  
 Unit :  
 Calibr. Fit : Linear  
 Corr. Coeff. : 1.0000  
 Base : -18985  
 Gain : 6  
 Sensitivity : 1.4355  
 Sample Limit 1 :  
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0173
1	1	P Primer	4.9302
2	1	D Drift	4.9963
3	1	C 5.00	4.9892
4	2	C 2.00	2.0270
5	3	C 0.50	0.4974
6	4	C 0.05	0.0551
7	5	C 0	-0.0187
8	1	H1 High	4.9991
9	0	L1 Low	0.0000
10	0	L1 Low	-0.0201
11	5	QC2 CCB1	-0.0261
12	2	QC1 CCV1	1.9896
13	10	QC3 LCS1	3.9898
14	0	N Null	-0.0006N
15	5	QC2 MB1	-0.0228
16	11	S k1010850-001	0.0260
17	12	S k1010850-001d	0.0240
18	13	S k1010850-001ms	2.0430
19	14	S k1010850-001msd	2.0291
20	15	S k1010850-002	-0.0109
21	16	S k1010850-003	-0.0034
22	0	B Baseline	-0.0265
23	5	QC2 CCB2	-0.0235
24	2	QC1 CCV2	2.0082
25	17	S k1010850-004	-0.0142
26	18	S	-0.0157

*diss.*

*diss.*

10/01/10  
*Frangy*

27	19	S		-0.0234
28	20	S		-0.0241
29	21	S		-0.0256
30	22	S		-0.0244
31	23	S		-0.0244
32	0	B	Baseline	-0.0269
33	5	QC2	CCB3	-0.0234
34	2	QC1	CCV3	1.9954
35	1	D	Drift	4.9921
36	0	B	Baseline	-0.0217
37	0	B	FinalBase	-0.0215

QC Limits

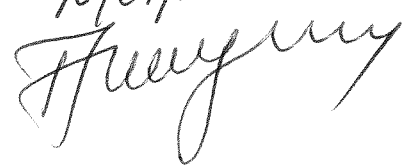
Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	No
Drift	:	No
Carry over	:	No
%:		0.0

- \* ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/01/10  


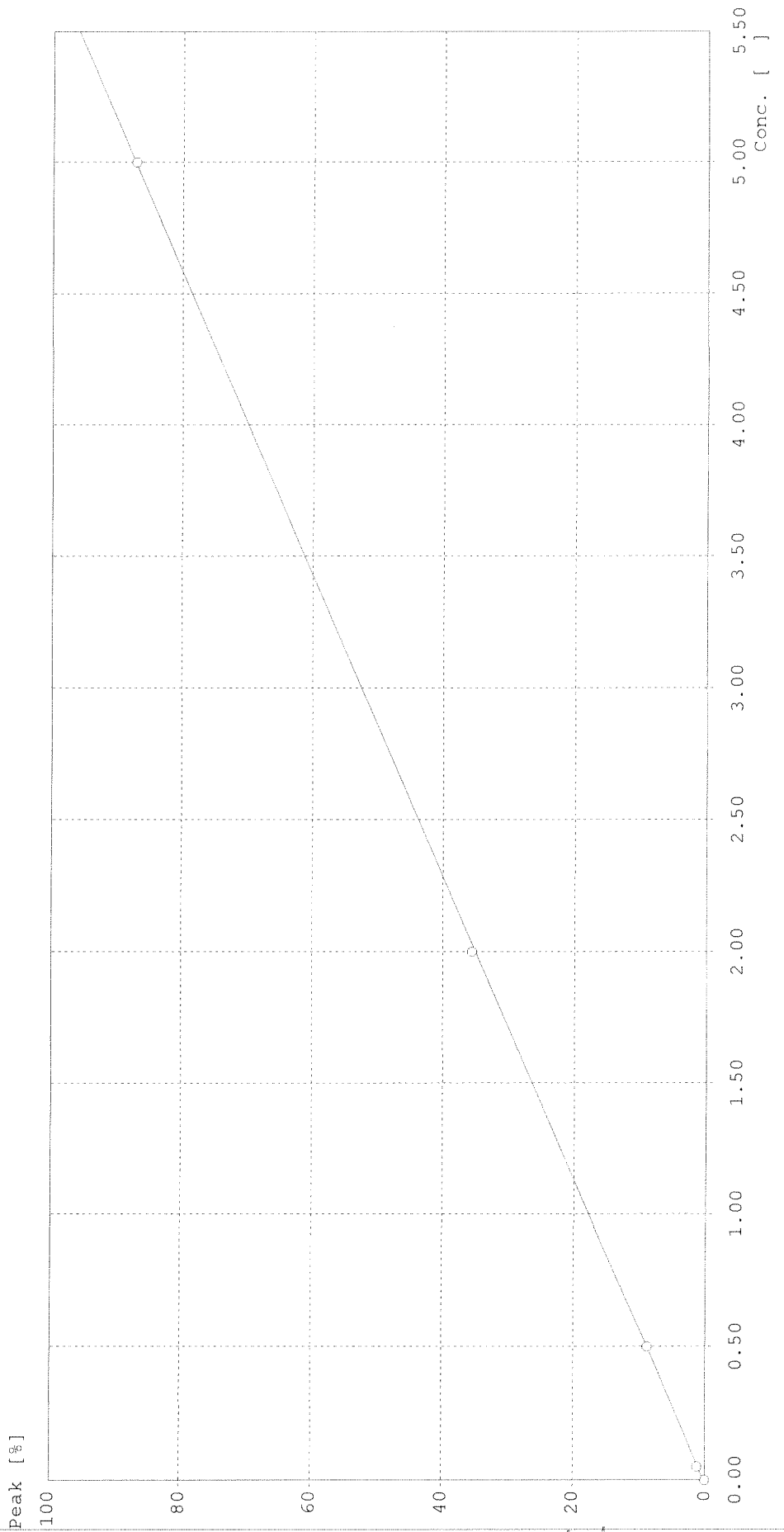
# BRAN+LUEBBE

Calibration Curve

Name of analysis : Nitrite.ANL

Name of run : 101001D.run  
Comment :

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.0494E-001      b=8.7653E-005  
Corr. coeff. : 1.0000



*10/01/10  
Haugen*

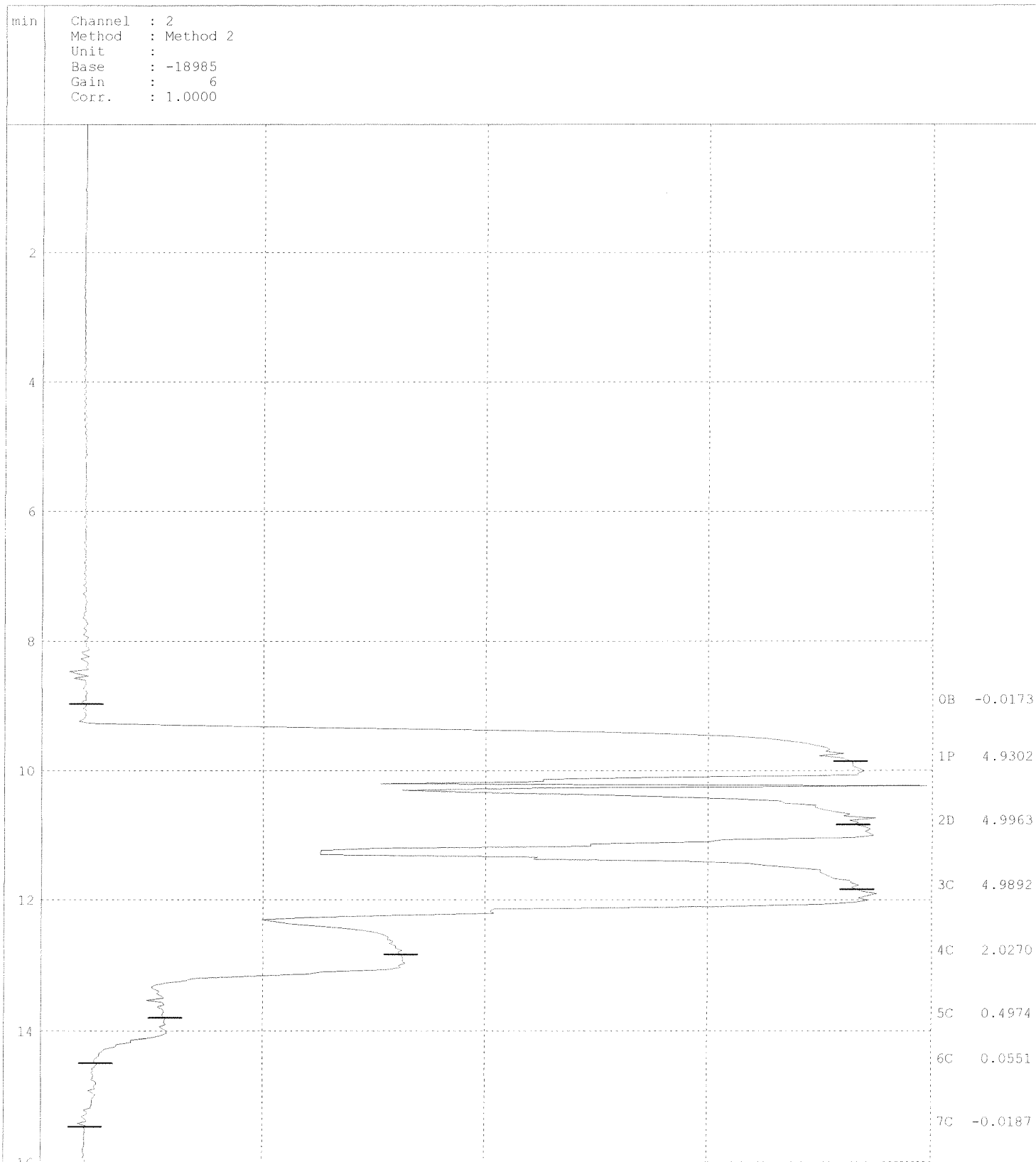
# BRAN+LUEBBE

Post-run chart

Name of run :101001D.RUN

Name of analysis :Nitrite.ANL

Comment :

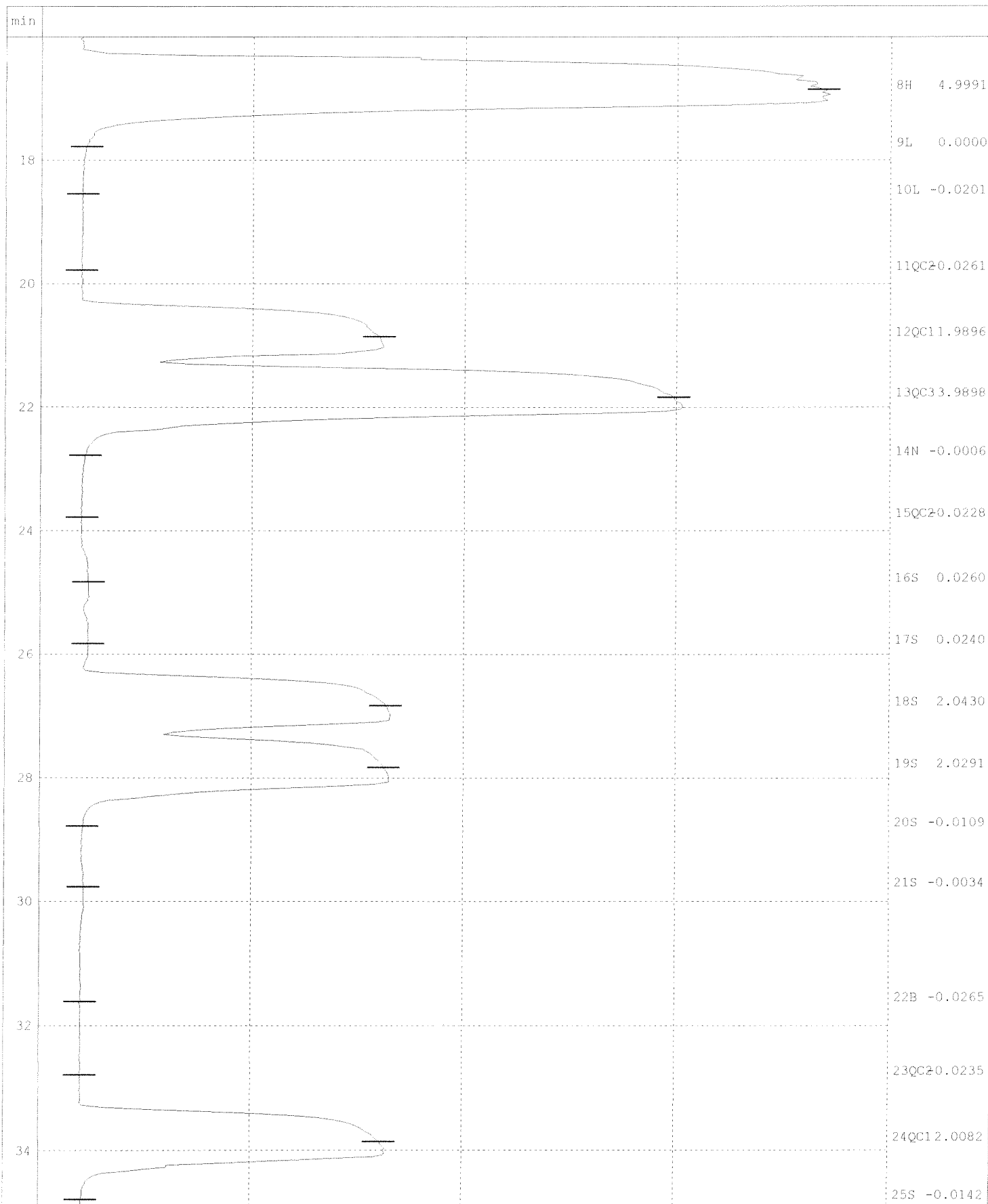


*10/01/10*  
*[Handwritten signature]*



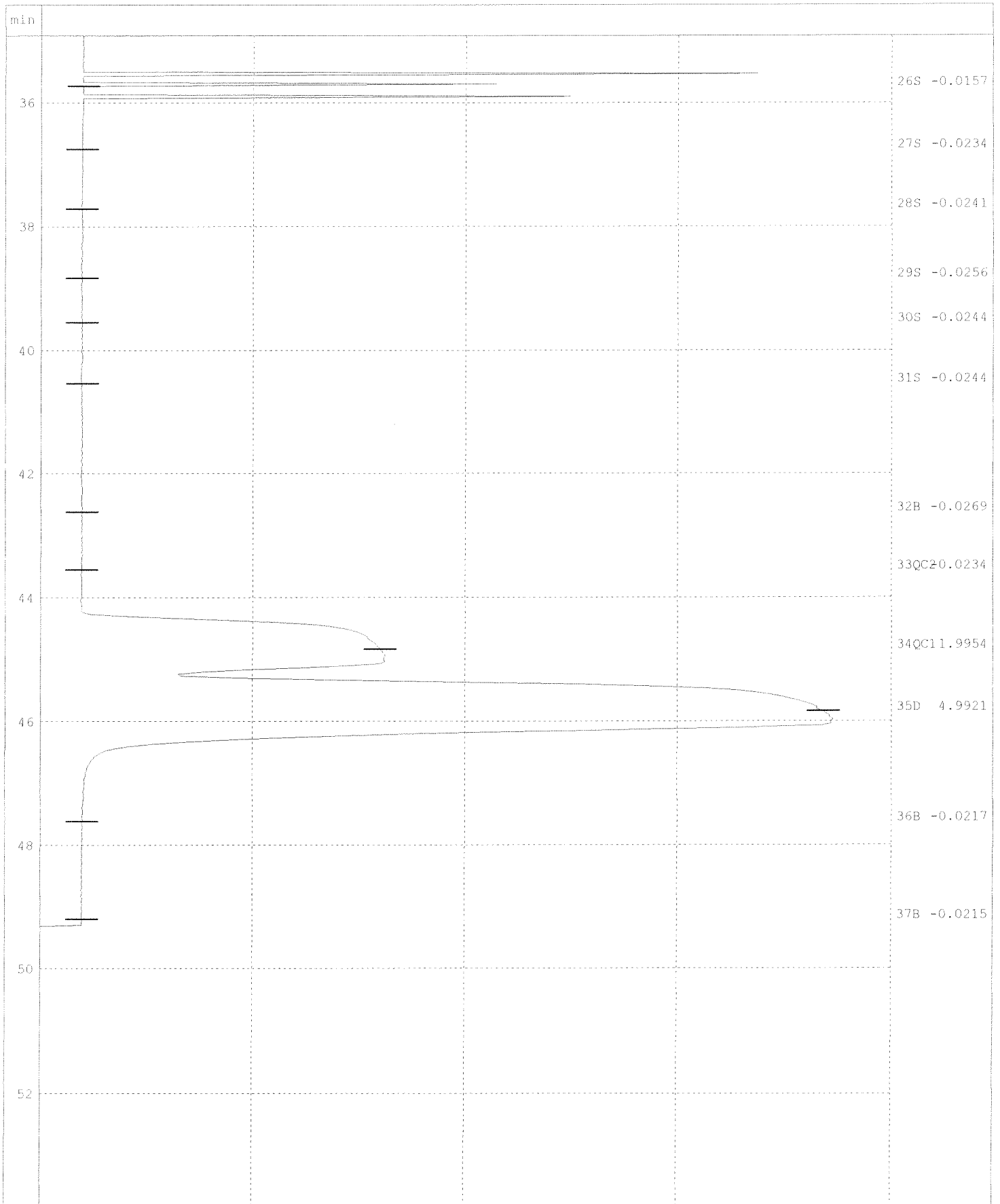
Name of run :101001D.RUN  
 Comment :

Name of analysis :Nitrite.ANL



Name of run :101001D.RUN  
Comment :

Name of analysis :Nitrite.ANL



Work Request # <sup>Original</sup> (K10735) K10759 K10785 K10795 K10850 K10899  
 Tier: II III II III III III  
 Date Analyzed: 10/06/10  
 Analyst: Houyuu  
 Analysis: NO<sub>2</sub>/NO<sub>3</sub> - N - 353.2 219644

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

**COMMENTS:**

Final Approved by:        Date:   10/7/10   DQREPORT

# Analytical Results Summary

Instrument Name: K-FLA-01

Analyst: THANGANU

Analysis Lot: 219644

Method/Testcode: 353.2/NO2 NO3 T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
010735-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.09 mg/L	5 mL	0.087 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010735-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.083 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010735-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.078 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010735-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010759-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.64 mg/L	5 mL	16.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	V
010759-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
010759-004	Nitrate+Nitrite as Nitrogen	N/A		Water	3.25 mg/L	5 mL	3.25 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
010759-006	Nitrate+Nitrite as Nitrogen	N/A		Water	1.65 mg/L	5 mL	16.5 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	V
010759-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.032 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
010759-008	Nitrate+Nitrite as Nitrogen	N/A		Water	3.71 mg/L	5 mL	3.71 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	V
010785-001	Nitrate+Nitrite as Nitrogen	N/A		Water	2.23 mg/L	5 mL	11.2 mg/L	50	0.5	2.5			10/6/10 11:12:00	N	V
010785-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.54 mg/L	5 mL	0.536 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.93 mg/L	5 mL	0.929 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.20 mg/L	5 mL	0.198 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-005	Nitrate+Nitrite as Nitrogen	N/A		Water	0.17 mg/L	5 mL	0.170 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-006	Nitrate+Nitrite as Nitrogen	N/A		Water	0.21 mg/L	5 mL	0.206 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.29 mg/L	5 mL	0.288 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-008	Nitrate+Nitrite as Nitrogen	N/A		Water	0.38 mg/L	5 mL	0.379 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010785-009	Nitrate+Nitrite as Nitrogen	N/A		Water	2.21 mg/L	5 mL	11.0 mg/L	50	0.5	2.5			10/6/10 11:12:00	N	II
010795-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.99 mg/L	5 mL	4.95 mg/L	5	0.05	0.25			10/6/10 11:12:00	N	III
010795-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.44 mg/L	5 mL	14.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
010795-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.051 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
010850-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.79 mg/L	5 mL	8.97 mg/L	5	0.05	0.25			10/6/10 11:12:00	N	III
010850-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.77 mg/L	5 mL	17.7 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
010850-003	Nitrate+Nitrite as Nitrogen	N/A		Water	4.20 mg/L	5 mL	42.0 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
010850-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.045 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
010899-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.26 mg/L	5 mL	31.4 mg/L	25	0.3	1.3			10/6/10 11:12:00	N	III
010899-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.043 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	III
010818-01	Nitrate+Nitrite as Nitrogen	MS	K1010735-001	Water	2.01 mg/L	5 mL	2.01 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010818-02	Nitrate+Nitrite as Nitrogen	DMS	K1010735-001	Water	2.03 mg/L	5 mL	2.03 mg/L	1	0.009	0.050		1	10/6/10 11:12:00	N	II
010818-03	Nitrate+Nitrite as Nitrogen	DUP	K1010735-001	Water	0.09 mg/L	5 mL	0.095 mg/L	1	0.009	0.050		8	10/6/10 11:12:00	N	II
010818-04	Nitrate+Nitrite as Nitrogen	MS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
010818-05	Nitrate+Nitrite as Nitrogen	DMS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N	III
010818-06	Nitrate+Nitrite as Nitrogen	DUP	K1010850-001	Water	1.79 mg/L	5 mL	8.94 mg/L	5	0.05	0.25		<1	10/6/10 11:12:00	N	III
010818-07	Nitrate+Nitrite as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010818-08	Nitrate+Nitrite as Nitrogen	MB		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N	II
010818-09	Nitrate+Nitrite as Nitrogen	LCS		Water	1.40 mg/L	5 mL	14.0 mg/L	10	0.09	0.50		95	10/6/10 11:12:00	N	II
010818-10	Nitrate+Nitrite as Nitrogen	LCS		Water	1.41 mg/L	5 mL	14.1 mg/L	10	0.09	0.50		95	10/6/10 11:12:00	N	II
010818-11	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/6/10 11:12:00	N	II

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

*10/6/10  
Thanganu*

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU


Analysis Lot: 219644

Method/Testcode: 353.2/NO2 NO3 T

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
21010818-12	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-13	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-14	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-15	Nitrate+Nitrite as Nitrogen	CCB		Water	0.05 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-16	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-17	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-18	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-19	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-20	Nitrate+Nitrite as Nitrogen	CCV		Water	1.91 mg/L	5 mL	1.91 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-21	Nitrate+Nitrite as Nitrogen	CCV		Water	1.93 mg/L	5 mL	1.93 mg/L	1	97%				10/6/10 11:12:00	N II
21010818-22	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II

Spike = 0.1 mL x 100 ppw / 5 mL = 2.00 ppw (K10735)  
 Spike = 0.1 mL x 100 ppw / 0.5 mL = 20.0 ppw (K10850)

LOS ID#: B+LNH<sub>3</sub>/- 35-A TV. = 14.8  
 Spike ID#: B+LNH<sub>3</sub>/- 97-M TV. = 2.00 / 20.0  
 Curve, CEV ID#: B+LNH<sub>3</sub>/- 86-P TV. = 0.50  
 I CV ID#: B+LNH<sub>3</sub>/- 69-M TV. = 2.00  
 MRS MS = 2.00

10/06/10  


indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

K10735, K10759, K10785, K10795, K10850, K10899

BRAN+LUEBBE AACE 6.02

Post-run Report

# BRAN+LUEBBE

Post-run report

Name of Run : 101006B  
Date of Report : 10/6/2010  
Date of Run : 10/6/2010  
Operator :  
Comment :  
Name of Analysis : NO2+NO3.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 11:12 - 12:43

Channel : 2  
Method : Method 2  
Unit : mg/L  
Calibr. Fit : Linear  
Corr. Coeff. : 0.9998  
Base : -19118  
Gain : 6  
Sensitivity : 1.5544  
Sample Limit 1 :  
Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0192
1	1	P primer	5.0069
2	1	D Drift	5.0018
3	1	C 5.00	5.0242
4	2	C 2.00	1.9379
5	3	C 0.50	0.4927
6	4	C 0.05	0.0710
7	5	C 0	0.0241
8	1	H1 High	5.0223
9	0	L1 Low	0.0249
10	0	L1 Low	0.0250
11	9	QC3 ICV	1.9210
12	5	QC2 ICB	0.0249
13	5	QC2 CCB1	0.0229
14	2	QC1 CCV1	1.9220
15	10	QC4 LCS1*10	1.4014
16	11	S MB MS	1.9396
17	0	N Null	0.0574N
18	5	QC2 MB1	0.0244
19	12	S k1010735-001	0.0873
20	13	S k1010735-001d	0.0948
21	14	S k1010735-001ms	2.0112
22	15	S k1010735-001msd	2.0349
23	16	S k1010735-002	0.0830
24	0	B Baseline	0.0192
25	5	QC2 CCB2	0.0231
26	2	QC1 CCV2	1.9190

10/7/10  
10/06/10  
Haugen

BRAN+LUEBBE AACE 6.02

27	17	S	k1010735-003	0.0782
28	18	S	k1010735-004	0.0270
29	19	S	k1010759-002*10	1.6355
30	20	S	k1010759-003	0.0285
31	21	S	k1010759-004	3.2544
32	22	S	k1010759-006*10	1.6453
33	23	S	k1010759-007	0.0321
34	24	S	k1010759-008	3.7125
35	25	S	k1010785-001*50	2.2323
36	0	B	Baseline	0.0192
37	5	QC2	CCB3	0.0315
38	2	QC1	CCV3	1.9176
39	26	S	k1010785-002	0.5363
40	27	S	k1010785-003	0.9294
41	28	S	k1010785-004	0.1980
42	29	S	k1010785-005	0.1696
43	30	S	k1010785-006	0.2058
44	31	S	k1010785-007	0.2877
45	32	S	k1010785-008	0.3793
46	33	S	k1010785-009*50	2.2092
47	34	S	k1010795-001*5 diss	0.9899
48	0	B	Baseline	0.0192
49	5	QC2	CCB4	0.0250
50	2	QC1	CCV4	1.9081
51	10	QC4	LCS2*10	1.4055
52	0	N	Null	0.0271N
53	5	QC2	MB2	0.0293
54	35	S	k1010795-002*10 dis	1.4377
55	36	S	k1010795-003 diss.	0.0506
56	37	S	k1010850-001*5diss.	1.7938
57	38	S	k1010850-001d*5diss	1.7874
58	39	S	k1010850-001ms*10 <i>diss</i>	2.8394
59	40	S	k1010850-001msd*10 <i>diss.</i>	2.8425
60	0	B	Baseline	0.0192
61	5	QC2	CCB5	0.0463
62	2	QC1	CCV5	1.9255
63	41	S	k1010850-002*10diss	1.7721
64	42	S	k1010850-003*10 dis	4.1980
65	43	S	k1010850-004 diss.	0.0452
66	44	S	k1010899-001*25diss	1.2559
67	45	S	k1010899-002 diss.	0.0427
68	0	B	Baseline	0.0192
69	5	QC2	CCB6	0.0342
70	2	QC1	CCV6	1.9237
71	1	D	Drift	5.0018
72	0	B	Baseline	0.0192
73	0	B	FinalBase	0.0192

QC Limits

Channel : 2  
 QC 1 Unused

*10/06/10*  
*Henry*  
*on 10/7/10*

QC 2 Unused  
QC 3 Unused  
QC 4 Unused  
QC 5 Unused  
QC 6 Unused  
QC 7 Unused  
QC 8 Unused  
QC 9 Unused  
QC10 Unused

---

CORRECTIONS

Channel : 2  
Baseline : Yes  
Drift : Yes  
Carry over : Yes  
%: 0.3

---

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

*10/06/10  
Haugen  
In 10/7/10*



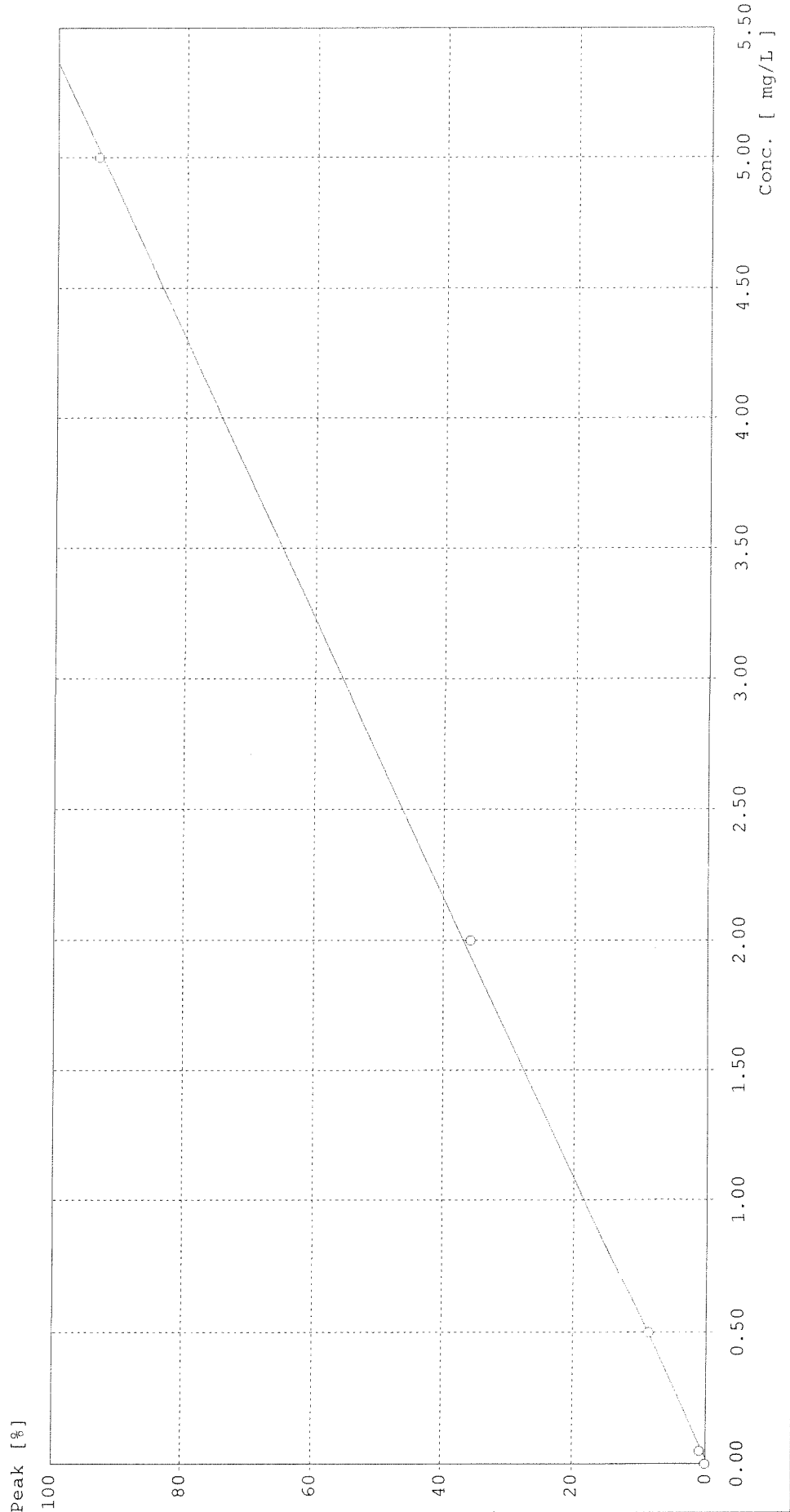
# BRAN+LUEBBE

Calibration Curve

Name of run : 101006B.run  
Comment :

Name of analysis : NO2+NO3.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.3814E-001      b=8.1599E-005  
Corr. coeff. : 0.9998



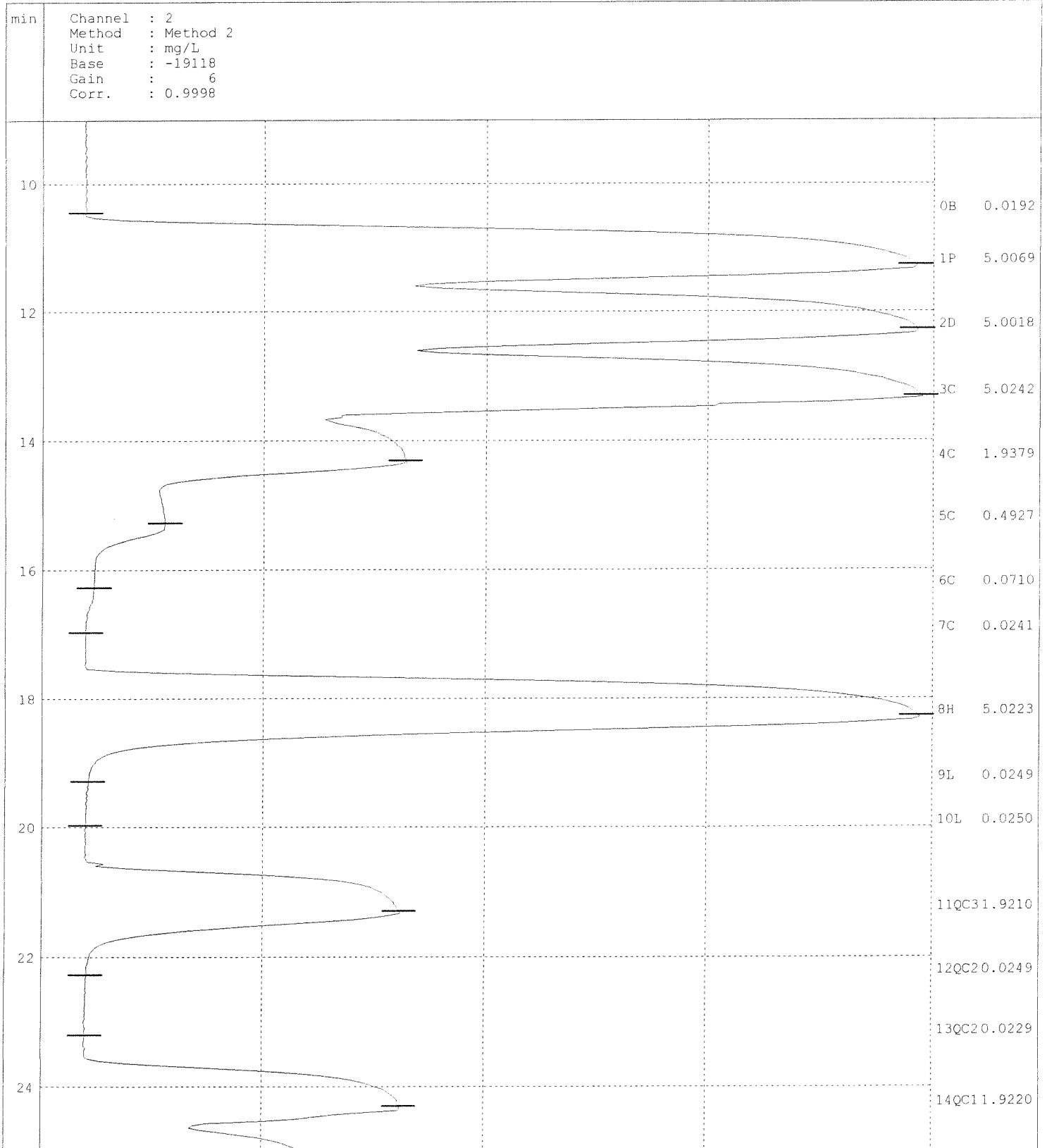
10/06/10  
*Handwritten signature*

# BRAN+LUEBBE

Post-run chart

Name of run :101006B.RUN  
Comment :

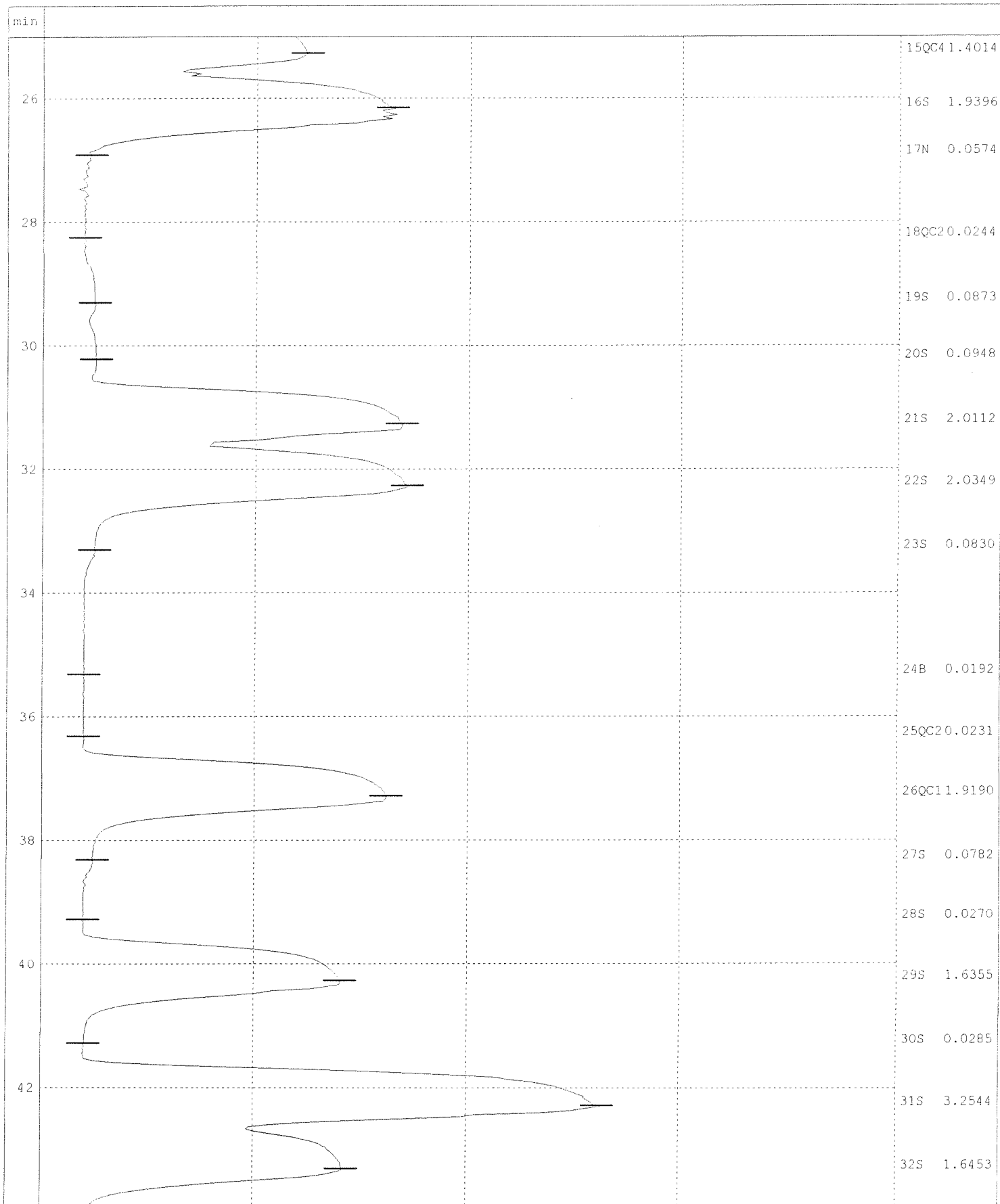
Name of analysis :NO2+NO3.ANL



10/06/10  
*Thompson*

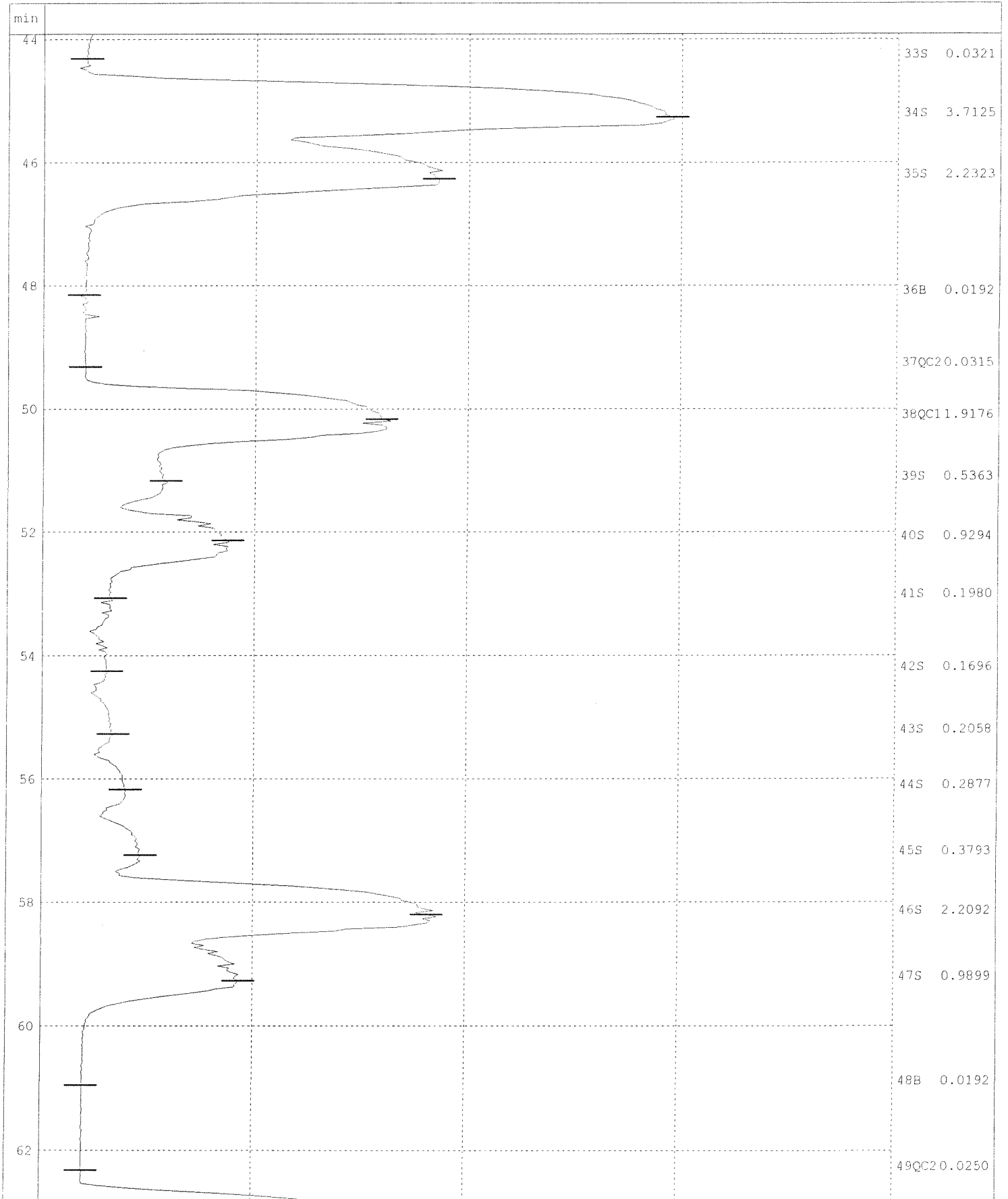
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



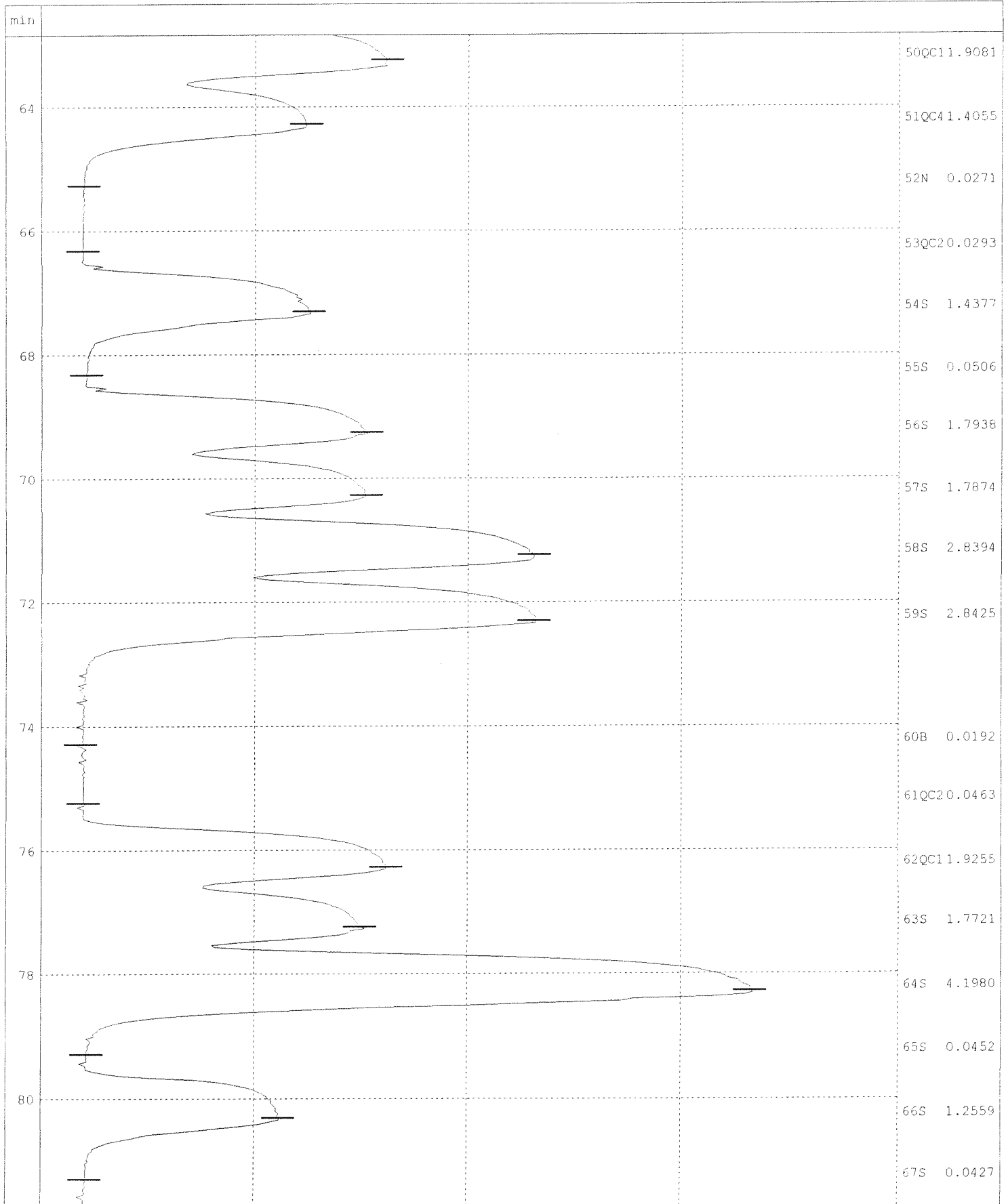
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



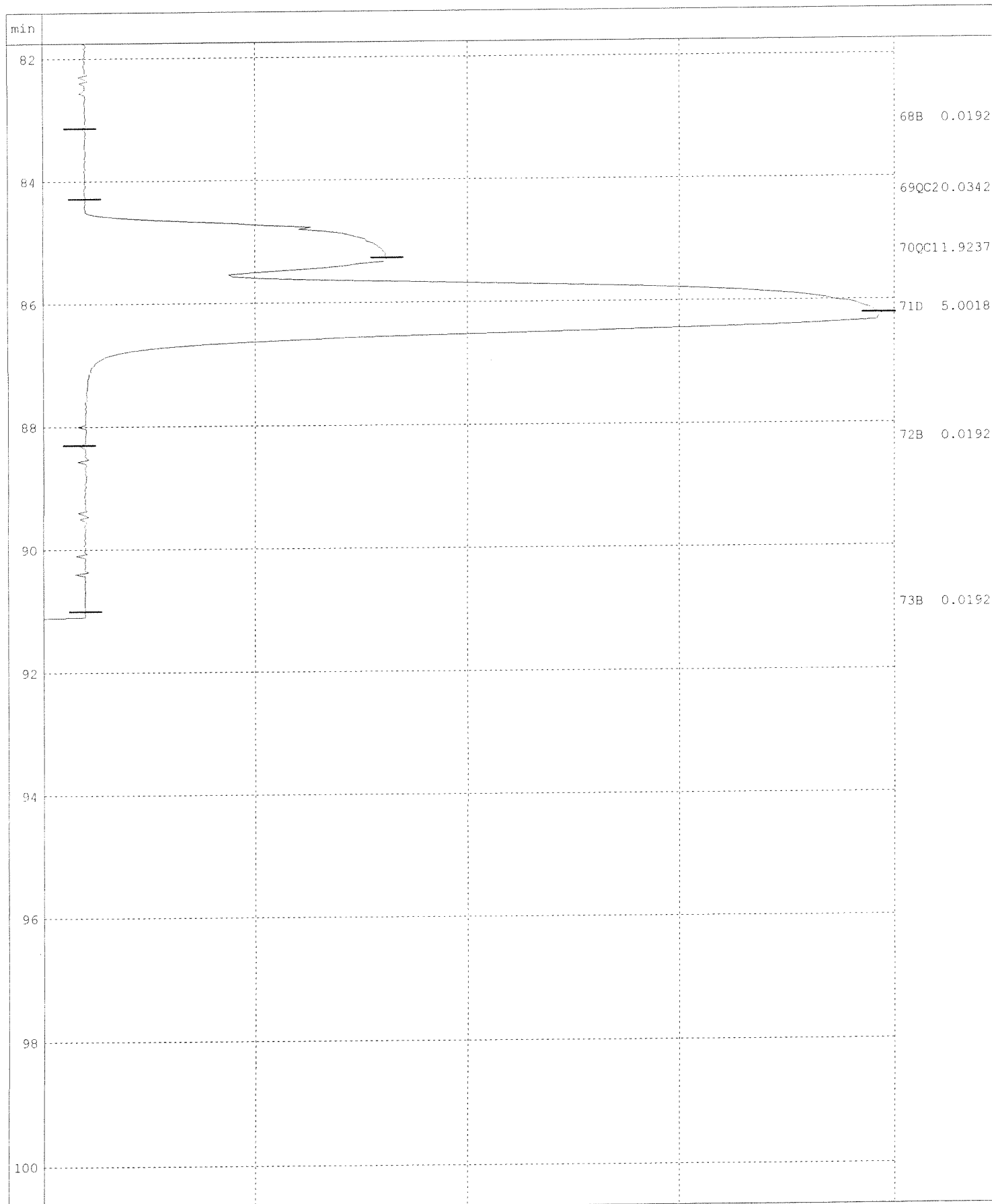
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Work Request # (851) 675 850 789  
 Tier: II II III ✓  
 Date Analyzed: 10/14/10  
 Analyst: CV  
 Analysis: Alk on auto titrator

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- |     |   |   |
|-----|---|---|
| 1.  | Is the method name and number correct and appropriate?  | <input checked="" type="radio"/> yes/no/NA  |
| 2.  | Holding times met for all analyses and for all samples?   | <input checked="" type="radio"/> yes/no/NA  |
| 3.  | Are calculations correct?   | <input checked="" type="radio"/> yes/no/NA  |
| 4.  | Is the reporting basis correct? (Dry Weight)  | <input checked="" type="radio"/> yes/no/NA  |
| 5.  | All quality control criteria met?   | <input checked="" type="radio"/> yes/no/NA  |
| a.  | Is the calibration curve correlation coefficient $\geq 0.995$ ?   | yes/no/ <input checked="" type="radio"/> NA |
| b.  | MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?                                      | <input checked="" type="radio"/> yes/no/NA  |
| c.  | Are ICVs, CCVs, and CCBs all within acceptance limits?  | yes/ <input checked="" type="radio"/> no/NA |
| d.  | Are results for methods blanks all ND?  | <input checked="" type="radio"/> yes/no/NA  |
| e.  | Are all QC samples within acceptance criteria?<br>(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)       | <input checked="" type="radio"/> yes/no/NA  |
| f.  | Are all exceptions explained?   | <input checked="" type="radio"/> yes/no/NA  |
| 6.  | Are all service requests that apply attached?   | <input checked="" type="radio"/> yes/no/NA  |
| 7.  | Are all samples labelled correctly?   | <input checked="" type="radio"/> yes/no/NA  |
| 8.  | Have all instructions on the service request been followed?<br>(e.g. Special MRLs, QC on a specific sample) | <input checked="" type="radio"/> yes/no/NA  |
| 9.  | Are detection limits and units reported correctly?  | <input checked="" type="radio"/> yes/no/NA  |
| 10. | Are proper Analysis/Extraction stickers included on report?   | yes/no/ <input checked="" type="radio"/> NA |
| 11. | Is the unused space on the benchsheet crossed out?  | <input checked="" type="radio"/> yes/no/NA  |
| 12. | Was analysis turned in by the due date? (n-2) (If not record SR#)   | yes/ <input checked="" type="radio"/> no/NA |

**COMMENTS:**

*785-1 dup did not pass because  
it only titrated to 8.3*

Final Approved by:    *CV*    Date: 10/12/10 DQREPORT

2 19390

CV 10/15/10  
10/14/10 Purade

Date: 10/05/2010  
RunID = Z1004101142  
InstrumentID = SN=1234A  
Site Name = Your Company Name Here  
Analyst = ACQWE  
Test Name/ID = Aik  
Titrant Name/ID = HCl 0.02N Ricca lot#1002358  
Standard(s) Name/ID = LCS TV=97.4 ERA lot#S164-698

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmpVol	SmplResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
Aik	MB-1	3	1	5.79	30	5.8158	ppm(l)	0.174 mL (147.8 mV)	59.06	04839	10-04-10	13:12	ACQWE	Z1004101142	SN=123
Aik	LCS-1	3	2	8.92	30	49.827	ppm(l)	1.493 mL (-76.6 mV)	59.06	04839	10-04-10	13:15	ACQWE	Z1004101142	SN=123
Aik	LCS-1	3	3	8.92	30	103.51	ppm(l)	3.103 mL (147.8 mV)	59.06	04839	10-04-10	13:15	ACQWE	Z1004101142	SN=123
Aik	K1010795-001.01	3	3	9.04	30	94.960	ppm(l)	2.846 mL (-76.6 mV)	59.06	04839	10-04-10	13:21	ACQWE	Z1004101142	SN=123
Aik	K1010795-001.01	3	4	9.04	30	91.937	ppm(l)	2.756 mL (-76.6 mV)	59.06	04839	10-04-10	13:46	ACQWE	Z1004101142	SN=123
Aik	K1010795-002.01	3	5	6.68	30	73.422	ppm(l)	2.201 mL (147.8 mV)	59.06	04839	10-04-10	14:12	ACQWE	Z1004101142	SN=123
Aik	K1010795-003.01	3	6	7.04	30	94.727	ppm(l)	2.839 mL (147.8 mV)	59.06	04839	10-04-10	14:17	ACQWE	Z1004101142	SN=123
Aik	K1010795-004.01	3	7	7.51	30	83.702	ppm(l)	2.509 mL (147.8 mV)	59.06	04839	10-04-10	14:22	ACQWE	Z1004101142	SN=123
Aik	K1010795-005.01	3	8	7.82	30	108.01	ppm(l)	3.238 mL (147.8 mV)	59.06	04839	10-04-10	14:27	ACQWE	Z1004101142	SN=123
Aik	K1010795-006.01	3	9	5.77	30	60.996	ppm(l)	1.828 mL (147.8 mV)	59.06	04839	10-04-10	14:33	ACQWE	Z1004101142	SN=123
Aik	K1010795-007.01	3	10	7.32	30	101.75	ppm(l)	3.050 mL (147.8 mV)	59.06	04839	10-04-10	14:38	ACQWE	Z1004101142	SN=123
Aik	K1010790-004.02	3	11	7.23	30	227.87	ppm(l)	6.830 mL (147.8 mV)	59.06	04839	10-04-10	14:43	ACQWE	Z1004101142	SN=123
Aik	K1010790-005.02	3	12	7.42	30	210.54	ppm(l)	6.311 mL (147.8 mV)	59.06	04839	10-04-10	14:53	ACQWE	Z1004101142	SN=123
Aik	K1010790-006.02	3	13	7.48	30	531.17	ppm(l)	15.921 mL (147.8 mV)	59.06	04839	10-04-10	15:02	ACQWE	Z1004101142	SN=123
Aik	K1010790-007.02	3	14	7.32	30	416.78	ppm(l)	12.492 mL (147.8 mV)	59.06	04839	10-04-10	15:21	ACQWE	Z1004101142	SN=123
Aik	K1010790-008.02	3	15	7.21	30	652.67	ppm(l)	19.563 mL (147.8 mV)	59.06	04839	10-04-10	15:37	ACQWE	Z1004101142	SN=123
Aik	K1010790-009.02	3	16	5.59	30	5.4616	ppm(l)	0.164 mL (147.8 mV)	59.06	04839	10-04-10	16:01	ACQWE	Z1004101142	SN=123
Aik	K1010790-010.02	3	17	5.64	30	5.5812	ppm(l)	0.167 mL (147.8 mV)	59.06	04839	10-04-10	16:04	ACQWE	Z1004101142	SN=123
Aik	K1010851-001.02	3	18	7.34	30	269.15	ppm(l)	8.067 mL (147.8 mV)	59.06	04839	10-04-10	16:06	ACQWE	Z1004101142	SN=123
Aik	K1010851-002.02	3	19	7.19	30	317.76	ppm(l)	9.524 mL (147.8 mV)	59.06	04839	10-04-10	16:17	ACQWE	Z1004101142	SN=123
Aik	K1010851-003.02	3	20	7.59	30	251.01	ppm(l)	7.523 mL (147.8 mV)	59.06	04839	10-04-10	16:29	ACQWE	Z1004101142	SN=123
Aik	K1010851-004.02	3	21	7.61	30	313.37	ppm(l)	9.393 mL (147.8 mV)	59.06	04839	10-04-10	16:39	ACQWE	Z1004101142	SN=123
Aik	K1010851-005.02	3	22	7.61	30	271.55	ppm(l)	8.139 mL (147.8 mV)	59.06	04839	10-04-10	16:51	ACQWE	Z1004101142	SN=123
Aik	K1010851-006.02	3	23	7.45	30	255.92	ppm(l)	7.671 mL (147.8 mV)	59.06	04839	10-04-10	17:02	ACQWE	Z1004101142	SN=123
Aik	MB-2	3	24	5.89	30	5.9764	ppm(l)	0.179 mL (147.8 mV)	59.06	04839	10-04-10	17:13	ACQWE	Z1004101142	SN=123
Aik	LCS-2	3	25	8.96	30	54.634	ppm(l)	1.638 mL (-76.6 mV)	59.06	04839	10-04-10	17:16	ACQWE	Z1004101142	SN=123
Aik	LCS-2	3	25	8.96	30	101.58	ppm(l)	3.045 mL (147.8 mV)	59.06	04839	10-04-10	17:16	ACQWE	Z1004101142	SN=123
Aik	K1010675-001.02	3	26	7.57	30	190.51	ppm(l)	5.710 mL (147.8 mV)	59.06	04839	10-04-10	17:21	ACQWE	Z1004101142	SN=123
Aik	K1010675-001.02	3	27	7.63	30	196.56	ppm(l)	5.892 mL (147.8 mV)	59.06	04839	10-04-10	17:29	ACQWE	Z1004101142	SN=123
Aik	K1010850-001.08	3	28	7.81	30	285.47	ppm(l)	8.556 mL (147.8 mV)	59.06	04839	10-04-10	17:38	ACQWE	Z1004101142	SN=123
Aik	K1010850-002.08	3	29	7.61	30	197.20	ppm(l)	5.911 mL (147.8 mV)	59.06	04839	10-04-10	17:49	ACQWE	Z1004101142	SN=123
Aik	K1010850-003.08	3	30	7.69	30	225.51	ppm(l)	6.759 mL (147.8 mV)	59.06	04839	10-04-10	17:58	ACQWE	Z1004101142	SN=123
Aik	K1010850-004.08	3	31	5.80	30	5.8538	ppm(l)	0.175 mL (147.8 mV)	59.06	04839	10-04-10	18:07	ACQWE	Z1004101142	SN=123

only want down to 875

LL

LL



Test ID	LIMS ID	Meth ID	Smpl ID	pH	Smpl Vol	Smpl Results	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
Alk	K1010759-002.08	3	32	7.72	30	191.91	ppm(-)	5.752 mL (147.8 mV)	59.06	04839	10-04-10	18:10	ACQWE	Z1004101142	SN=123
Alk	K1010759-003.09	3	33	8.05	30	180.95	ppm(-)	5.424 mL (147.8 mV)	59.06	04839	10-04-10	18:18	ACQWE	Z1004101142	SN=123
Alk	K1010759-004.09	3	34	8.01	30	177.33	ppm(-)	5.315 mL (147.8 mV)	59.06	04839	10-04-10	18:26	ACQWE	Z1004101142	SN=123
Alk	K1010759-006.08	3	35	7.73	30	187.35	ppm(-)	5.615 mL (147.8 mV)	59.06	04839	10-04-10	18:34	ACQWE	Z1004101142	SN=123
Alk	K1010759-007.09	3	36	8.07	30	169.54	ppm(-)	5.082 mL (147.8 mV)	59.06	04839	10-04-10	18:42	ACQWE	Z1004101142	SN=123
Alk	K1010759-008.x2	3	37	7.76	30	85.768	ppm(-)	2.571 mL (147.8 mV)	59.06	04839	10-04-10	18:50	ACQWE	Z1004101142	SN=123
Alk	K1010759-008.x6	3	38	7.16	30	34.926	ppm(-)	1.047 mL (147.8 mV)	59.06	04839	10-04-10	18:55	ACQWE	Z1004101142	SN=123
Alk	MB-3	3	39	6.23	30	6.5072	ppm(-)	0.195 mL (147.8 mV)	59.06	04839	10-04-10	18:59	ACQWE	Z1004101142	SN=123
Alk	MB-4	3	40	5.82	30	5.7719	ppm(-)	0.173 mL (147.8 mV)	59.06	04839	10-04-10	19:01	ACQWE	Z1004101142	SN=123

overlithide

LCS-1 %Rec = 106

785 - 1x̄ = 936 RPD = 3

LCS-2 %Rec = 104

675 - 1x̄ = 194 RPD = 3

Upon 1st section only titrated  
 to 8.3. have dup'd LCS for  
 the last 20 samples only

Alk = Bicarb

OH = Carb = 0.0 for all of the reported  
 samples

# Analytical Results Summary

Instrument Name: K-PH-01

Analyst: CVECCHITTO

Analysis Lot:

219390

Method/Testcode: SM 2320 B/Alkalinity Tit

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
010675-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	191.00 mg/L	30 mL	191 mg/L	1	3.0	9.0			10/4/10 01:10:00	N II
010759-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	192.00 mg/L	30 mL	192 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-002	Bicarbonate as CaCO3 N/A	N/A	Water	Water	192.00 mg/L	30 mL	192 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-002	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010759-003	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	181.00 mg/L	30 mL	181 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-003	Bicarbonate as CaCO3 N/A	N/A	Water	Water	181.00 mg/L	30 mL	181 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-003	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010759-004	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	177.00 mg/L	30 mL	177 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-004	Bicarbonate as CaCO3 N/A	N/A	Water	Water	177.00 mg/L	30 mL	177 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-004	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010759-006	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	187.00 mg/L	30 mL	187 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-006	Bicarbonate as CaCO3 N/A	N/A	Water	Water	187.00 mg/L	30 mL	187 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-006	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010759-007	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	170.00 mg/L	30 mL	170 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-007	Bicarbonate as CaCO3 N/A	N/A	Water	Water	170.00 mg/L	30 mL	170 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-007	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010759-008	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	172.00 mg/L	30 mL	172 mg/L	1	3.0	9.0			10/4/10 01:10:00	N V
010759-008	Bicarbonate as CaCO3 N/A	N/A	Water	Water	172.00 mg/L	30 mL	172 mg/L	1	3.0	3.0			10/4/10 01:10:00	N V
010759-008	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N V
010850-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	285.00 mg/L	30 mL	285 mg/L	1	3.0	9.0			10/4/10 01:10:00	N III
010850-001	Bicarbonate as CaCO3 N/A	N/A	Water	Water	285.00 mg/L	30 mL	285 mg/L	1	3.0	3.0			10/4/10 01:10:00	N III
010850-001	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010850-001	Hydroxide as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010850-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	197.00 mg/L	30 mL	197 mg/L	1	3.0	9.0			10/4/10 01:10:00	N III
010850-002	Bicarbonate as CaCO3 N/A	N/A	Water	Water	197.00 mg/L	30 mL	197 mg/L	1	3.0	3.0			10/4/10 01:10:00	N III
010850-002	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010850-002	Hydroxide as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010850-003	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	226.00 mg/L	30 mL	226 mg/L	1	3.0	9.0			10/4/10 01:10:00	N III
010850-003	Bicarbonate as CaCO3 N/A	N/A	Water	Water	226.00 mg/L	30 mL	226 mg/L	1	3.0	3.0			10/4/10 01:10:00	N III
010850-003	Carbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010850-003	Hydroxide as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N III
010851-001	Bicarbonate as CaCO3 N/A	N/A	Water	Water	269.00 mg/L	30 mL	269 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-001	Bicarbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
010851-001	Carbonate as CaCO3 N/A	N/A	Water	Water	318.00 mg/L	30 mL	318 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-002	Bicarbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
010851-002	Carbonate as CaCO3 N/A	N/A	Water	Water	251.00 mg/L	30 mL	251 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-003	Bicarbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
010851-003	Carbonate as CaCO3 N/A	N/A	Water	Water	313.00 mg/L	30 mL	313 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-004	Bicarbonate as CaCO3 N/A	N/A	Water	Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 10/5/10 12:46

# Analytical Results Summary

Instrument Name: K-PH-01

Analyst: CVECCHITTO

Analysis Lot: 219390

Method/Testcode: SM 2320 B/Bicarb Alk

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
010851-005	Bicarbonate as CaCO3	N/A		Water	272.00 mg/L	30 mL	272 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-005	Carbonate as CaCO3	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
010851-006	Bicarbonate as CaCO3	N/A		Water	256.00 mg/L	30 mL	256 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
010851-006	Carbonate as CaCO3	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
01010740-01	Alkalinity as CaCO3, Total DUP		K10110675-001	Water	197.00 mg/L	30 mL	197 mg/L	1	3.0	9.0		3	10/4/10 01:10:00	N II
01010740-02	Alkalinity as CaCO3, Total MB			Water	5.98 mg/L	30 mL	6.0 mg/L J	1	3.0	9.0			10/4/10 01:10:00	N II
01010740-02	Bicarbonate as CaCO3 MB			Water	5.98 mg/L	30 mL	6.0 mg/L	1	3.0	3.0			10/4/10 01:10:00	N II
01010740-02	Carbonate as CaCO3 MB			Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
01010740-02	Hydroxide as CaCO3 MB			Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/4/10 01:10:00	N II
01010740-03	Alkalinity as CaCO3, Total LCS			Water	102.00 mg/L	30 mL	102 mg/L	1	3.0	9.0	105		10/4/10 01:10:00	N II

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

219462

Work Request # <sup>Original</sup> (727) 735 795 788, 850, 790, 67

Tier: V II III I II II II

Date Analyzed: 10/5/10

Analyst: CV

Analysis: Alk on base

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes/no/NA
- 2. Holding times met for all analyses and for all samples?  yes/no/NA
- 3. Are calculations correct?  yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
- 5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
- 6. Are all service requests that apply attached?  yes/no/NA
- 7. Are all samples labelled correctly?  yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
- 9. Are detection limits and units reported correctly?  yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
- 11. Is the unused space on the benchsheet crossed out?  yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: AA Date: 10/12/10

DQREPORT

Analyte: **Alkalinity** Regular Level X Date: 10/5/10  
 Method: **310.1 / SM20 2320 B** High Level            Analyst:            cv             
 Pipette: K-ph-01 Time: 8:00

pH meter cal:  
 4.0             
 7.0             
 10.0             
 Buffer Lot #:           

Reagents: concentration            Log #            Date             
 HCl: 0.020 N 10023589  
 LCS TV= 97.4 mg/L S164-698  
 %REC=           

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3/L = (A<sub>(mL acid used)</sub> x N<sub>(HCl)</sub> x 50,000) / mL sample

Alkalinity Low level, mg CaCO3/L = ((2A<sub>(mL acid used to pH 5)</sub> - B<sub>(mL acid used to pH 4.2)</sub>) x N<sub>(HCl)</sub> x 50,000) / mL sample

Service Request#	Sample Vol (mL)	pH Initial	Vol to pH 8.3	Vol to pH 4.5	Vol to pH 4.2	Phen. Alk. mg/L	OH- Alk. mg/L	Carb Alk. mg/L	Bicarb Alk. mg/L	Total Alk. mg/L
1 MB-1	100.0	6.09		0.20	0.38				0.2	0.2
2 LCS-1	50.0	9.12		4.70					94.0	94.0
3 K1010727-001	100.0	7.07		1.50	1.61				14.0	14.0
4 K1010727-002	50.0	7.50		1.20					24.0	24.0
5 K1010727-003	100.0	7.39		1.90	2.25				19.0	19.0
6 K1010727-003d	100.0	7.41		1.95	2.25				16.5	16.5
7 K1010727-004	50.0	7.51		1.10					22.0	22.0
8 K1010735-004	100.0	6.19		0.30	0.50				1.0	1.0
9 K1010795-003	100.0	5.95		0.28	0.40				1.6	1.6
10 K1010850-004	100.0	5.88		0.15	0.30				0.0	0.0
11 K1010788-002	100.0	5.40		0.40	0.50			#VALUE!	3.0	3.0
12 K1010788-003	100.0	5.67		0.95	1.05			#VALUE!	8.5	8.5
13 K1010788-004	100.0	5.65		1.20	1.50			#VALUE!	9.0	9.0
14 BUFFER CHECK		4.03								
15 MB-2	100.0	5.55		0.22	0.40				0.4	0.4
16 K1010790-009	100.0	5.40		0.20	0.38				0.4	0.4
16 K1010790-010	100.0	5.38		0.19	0.40				0.0	0.0

X = 1.68  
 RPD = 1.1

4.5% 4.7% 7% fec  
 4.8% fec  
 4.7% - 1

	100.0	5.36	0.15	0.30	#VALUE!	0.0	0.0
17	K1010675-005						
18	LCS-2	50.0	9.07	4.70			94.0
19	LCS-2d	50.0	9.02	4.75			95.0
20	BUFFER CHECK		4.03				
21							
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# Analytical Results Summary

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
10675-005	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N II
10727-001	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	14.00 mg/L	30 mL	14.0 mg/L	1	3.0	5.0			10/5/10 08:00:00	N V
10727-002	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	24.00 mg/L	30 mL	24.0 mg/L	1	3.0	5.0			10/5/10 08:00:00	N V
10727-003	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	19.00 mg/L	30 mL	19.0 mg/L	1	3.0	5.0			10/5/10 08:00:00	N V
10727-004	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	22.00 mg/L	30 mL	22.0 mg/L	1	3.0	5.0			10/5/10 08:00:00	N V
10735-004	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	1.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N II
10735-004	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
10788-002	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	3.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N I
10788-002	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	3.00 mg/L	30 mL	3.0 mg/L	1	3.0	3.0			10/5/10 08:00:00	N I
10788-002	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N I
10788-003	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	8.50 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N I
10788-003	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	8.50 mg/L	30 mL	8.5 mg/L	1	3.0	3.0			10/5/10 08:00:00	N I
10788-003	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N I
10788-004	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	9.00 mg/L	30 mL	9.0 mg/L	1	3.0	9.0			10/5/10 08:00:00	N I
10788-004	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	9.00 mg/L	30 mL	9.0 mg/L	1	3.0	3.0			10/5/10 08:00:00	N I
10788-004	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N I
10790-009	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	0.40 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
10790-009	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
10790-010	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
10790-010	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
10795-003	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	1.60 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N III
10795-003	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	1.60 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
10795-003	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
10795-003	Hydroxide as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
10850-004	Alkalinity as CaCO <sub>3</sub> , Total N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
10850-004	Bicarbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N III
10850-004	Carbonate as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
10850-004	Hydroxide as CaCO <sub>3</sub> N/A	N/A		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N III
1010763-01	Alkalinity as CaCO <sub>3</sub> , Total LCS	LCS		Water	94.00 mg/L	30 mL	94.0 mg/L	1	3.0	9.0	97		10/5/10 08:00:00	N II
1010763-02	Alkalinity as CaCO <sub>3</sub> , Total DLCS	DLCS		Water	95.00 mg/L	30 mL	95.0 mg/L	1	3.0	9.0	98		10/5/10 08:00:00	N II
1010763-03	Alkalinity as CaCO <sub>3</sub> , Total MB	MB		Water	0.40 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N II
1010763-03	Bicarbonate as CaCO <sub>3</sub> MB	MB		Water	0.40 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
1010763-03	Carbonate as CaCO <sub>3</sub> MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
1010763-03	Hydroxide as CaCO <sub>3</sub> MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N II
1010763-04	Alkalinity as CaCO <sub>3</sub> , Total DUP	DUP	K1010727-003	Water	16.50 mg/L	30 mL	16.5 mg/L	1	3.0	9.0		14	10/5/10 08:00:00	N V
1010763-05	Alkalinity as CaCO <sub>3</sub> , Total MB	MB		Water	0.20 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			10/5/10 08:00:00	N V
1010763-05	Bicarbonate as CaCO <sub>3</sub> MB	MB		Water	0.20 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N V
1010763-05	Carbonate as CaCO <sub>3</sub> MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N V
1010763-05	Hydroxide as CaCO <sub>3</sub> MB	MB		Water	0.00 mg/L	30 mL	3.0 mg/L U	1	3.0	3.0			10/5/10 08:00:00	N V

icates Final Result is not yet adjusted for Solids because it has not yet been determined.

**Analytical Results Summary**

**Instrument Name:** K-pH-01      **Analyst:** CVECCHITTO      **Analysis Lot:** 219462      **Method/Testcode:** SM 2320 B/Alkalinity Titr  
**Code:** 1010763-06      **Target Analytes:** QC      **Parent Sample:** Matrix      **Raw Result:** Sample Amt.      **Final Result:** Dil      **MDL:** PQL      **% Rec:** % RSD      **Date Analyzed:** QC? Tier  
 Alkalinity as CaCO<sub>3</sub>, Total LCS      Water      94.00 mg/L      30 mL      94.0 mg/L      1      3.0      9.0      97      10/5/10 08:00:00      N      V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



Work Request # (K10134) K108111 K10050, K10012, K10011

1072

Tier: IV I III I III

Date Analyzed: 10/5/10

Analyst: KE

Analysis: TDS

### DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes  no  NA
- 2. Holding times met for all analyses and for all samples?  yes  no  NA
- 3. Are calculations correct?  yes  no  NA
- 4. Is the reporting basis correct? (Dry Weight)  yes  no  NA
- 5. All quality control criteria met?
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes  no  NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes  no  NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes  no  NA
  - d. Are results for methods blanks all ND?  yes  no  NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes  no  NA
  - f. Are all exceptions explained?  yes  no  NA
- 6. Are all service requests that apply attached?  yes  no  NA
- 7. Are all samples labelled correctly?  yes  no  NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes  no  NA
- 9. Are detection limits and units reported correctly?  yes  no  NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes  no  NA
- 11. Is the unused space on the benchsheet crossed out?  yes  no  NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes  no  NA

**COMMENTS:**

K10734 - Sample analyzed past hold.

Final Approved by:  Date: 10/8/10 DOREPORT

# Analytical Results Summary

Instrument Name: K-Balance-31      Analyst: K CUEVAS      Analysis Lot: 219372      Method/Testcode: SM 2540 C/TDS

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
10734-001	Solids, Total Dissolved	N/A		Water	367.00 mg/L	100 ml	367 mg/L	1	10	20	100		10/5/10 06:00	N	V
10734-002	Solids, Total Dissolved	N/A		Water	324.00 mg/L	100 ml	324 mg/L	1	10	20	100		10/5/10 06:00	N	V
10817-001	Solids, Total Dissolved	N/A		Water	47.00 mg/L	100 ml	47 mg/L	1	10	10	100		10/5/10 06:00	N	I
10817-002	Solids, Total Dissolved	N/A		Water	310.00 mg/L	100 ml	310 mg/L	1	10	10	100		10/5/10 06:00	N	I
10817-003	Solids, Total Dissolved	N/A		Water	648.00 mg/L	75 ml	648 mg/L	1	14	14	100		10/5/10 06:00	N	I
10850-001	Solids, Total Dissolved	N/A		Water	657.30 mg/L	75 ml	657 mg/L	1	14	14	100		10/5/10 06:00	N	III
10850-002	Solids, Total Dissolved	N/A		Water	489.30 mg/L	75 ml	489 mg/L	1	14	14	100		10/5/10 06:00	N	III
10850-003	Solids, Total Dissolved	N/A		Water	882.70 mg/L	75 ml	883 mg/L	1	14	14	100		10/5/10 06:00	N	III
10850-004	Solids, Total Dissolved	N/A		Water	31.00 mg/L	200 ml	31.0 mg/L	1	5.0	5.0	101		10/5/10 06:00	N	III
10892-001	Solids, Total Dissolved	N/A		Water	56.00 mg/L	100 ml	56 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-002	Solids, Total Dissolved	N/A		Water	37.00 mg/L	100 ml	37 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-003	Solids, Total Dissolved	N/A		Water	47.00 mg/L	100 ml	47 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-004	Solids, Total Dissolved	N/A		Water	128.00 mg/L	50 ml	128 mg/L	1	20	20	100		10/5/10 06:00	N	I
10892-005	Solids, Total Dissolved	N/A		Water	133.00 mg/L	100 ml	133 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-006	Solids, Total Dissolved	N/A		Water	330.00 mg/L	100 ml	330 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-007	Solids, Total Dissolved	N/A		Water	111.00 mg/L	100 ml	111 mg/L	1	10	10	100		10/5/10 06:00	N	I
10892-008	Solids, Total Dissolved	N/A		Water	1718.00 mg/L	50 ml	1720 mg/L	1	20	20	100		10/5/10 06:00	N	I
10892-009	Solids, Total Dissolved	N/A		Water	1858.00 mg/L	50 ml	1860 mg/L	1	20	20	100		10/5/10 06:00	N	I
10899-001	Solids, Total Dissolved	N/A		Water	1984.00 mg/L	50 ml	1980 mg/L	1	20	20	100		10/5/10 06:00	N	III
10899-002	Solids, Total Dissolved	N/A		Water	32.00 mg/L	50 ml	32 mg/L	1	20	20	100		10/5/10 06:00	N	III
1010725-01	Solids, Total Dissolved	DUP	K1010850-003	Water	873.30 mg/L	75 ml	873 mg/L	1	14	14	100	1	10/5/10 06:00	N	III
1010725-02	Solids, Total Dissolved	DUP		Water	1816.00 mg/L	50 ml	1820 mg/L	1	20	20	100	6	10/5/10 06:00	N	I
1010725-03	Solids, Total Dissolved	MB	K1010892-008	Water	2.00 mg/L	200 ml	5.0 mg/L	1	5.0	5.0	101		10/5/10 06:00	N	V
1010725-04	Solids, Total Dissolved	LCS		Water	1100.00 mg/L	50 ml	1100 mg/L	1	20	20	101		10/5/10 06:00	N	V

OKC 10/7/10  
MRL - PAR

dictates Final Result is not yet adjusted for Solids because it has not yet been determined.

1372

Work Order #: \_\_\_\_\_  
 Analysis: \_\_\_\_\_ Total Dissolved Solids

Method: EPA SM 2540 C

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB	[10A]		200	129.0628	129.0625		129.0624	0.0004	2.00	<5
LCS	GIRL		50	71.5690	71.5688		71.5140	0.0550	1100	1100
K1010734-001	48A	752	100	63.9340	63.9342		63.8973	0.0367	367	367
K1010734-002	[47]	585	100	73.0384	73.0389		73.0060	0.0324	324	324
K1010817-001	30Y	227	100	85.3326	85.3326		85.3279	0.0047	47.0	47.0
K1010817-002	38Y	633	100	72.4832	72.4833		72.4522	0.0310	310	310
K1010817-003	IT	1229	75	73.5957	73.5957		73.5471	0.0486	648	648
K1010850-001	DUCK	1163	75	68.6317	68.6320		68.5824	0.0493	657	657
K1010850-002	DUANE	1015	75	75.2747	75.2748		75.2380	0.0367	489	489
K1010850-003	SASSY	1632	75	77.4252	77.4250		77.3590	0.0662	883	883
K1010850-004	[22A]	46	200	130.9836	130.9835		130.9774	0.0062	31.0	31.0
K1010892-001	44Y	182	100	82.4103	82.4100	MUL FIL	82.4047	0.0056	56.0	56.0
K1010892-002	TUBE	204	100	66.2967	66.2969	MUL FIL	66.2930	0.0037	37.0	37.0
K1010892-003	NC2	95	100	86.1032	86.1035	MUL FIL	86.0985	0.0047	47.0	47.0
K1010892-004	MINI	343	50	76.3050	76.3052	MUL FIL	76.2986	0.0064	128	128
K1010892-005	[40]	264	100	74.2248	74.2251		74.2115	0.0133	133	133
K1010892-006	HERBIE	856	100	66.1136	66.1135		66.0806	0.0330	330	330
K1010892-007	U	239	100	73.0645	73.0647		73.0534	0.0111	111	111
K1010892-008	SIMON	4171	50	70.1194	70.1197		70.0335	0.0859	1718	1720
K1010892-009	22A	3493	50	77.9290	77.9289		77.8361	0.0929	1858	1860
K1010899-001	J16	3384	50	75.1866	75.1869		75.0874	0.0992	1984	1980
K1010899-002	42Y	4712	50	71.8492	71.8495		71.8476	0.0016	32.0	32.0
K1010850-003d	21Y	1632	75	75.7038	75.7039		75.6383	0.0655	873	873
K1010892-008d	36A	4171	50	75.1220	75.1221		75.0312	0.0908	1816	1820
X										

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml) Balance#31  
 APG #:4033 Lot# 280610 ID# TDS-1-28-N T.V. =1090 % Rec =

Wt (1) Start	7:00	Wt (2) Start	11:00	Wt (3) Start	
Stop	5:00	Stop	05:00	Stop	
Wt (1) Start	180	Wt (2) Start	180	Wt (3) Start	
Temp Stop	180	Temp Stop	180	Temp Stop	

Analyzed By: KC Date Analyzed: 10/5/2010 6:00  
 Reviewed By: \_\_\_\_\_ Date Reviewed: 10/5/10

## **Metals**

Columbia Analytical Services

- Cover Page -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent  
Project Name: Heglar Kronquist  
Project No.: 0907194.000.0601

Service Request: K1010850

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<u>Sample Name:</u>	<u>Lab Code:</u>
Batch QC1D	K1010795-001DDISS
Batch QC1S	K1010795-001SDISS
MW-2	K1010850-001DISS
MW-1	K1010850-002DISS
MW-4	K1010850-003DISS
Equipment Blank	K1010850-004DISS
Method Blank	K1010850-MB

Comments:

Approved By: \_\_\_\_\_



Date: \_\_\_\_\_

11/12/10

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1010850  
Project No.: 0907194.000.0601 Date Collected: 09/30/10  
Project Name: Heglar Kronquist Date Received: 10/01/10  
Matrix: WATER Units: ug/L  
Basis: N/A

Sample Name: MW-2 Lab Code: K1010850-001DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	16.4	J	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.9		
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	128000		
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	30.4		
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	40400		
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	134		
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	6710		
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	29000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1010850  
Project No.: 0907194.000.0601 Date Collected: 09/30/10  
Project Name: Heglar Kronquist Date Received: 10/01/10  
Matrix: WATER Units: ug/L  
Basis: N/A

Sample Name: MW-1 Lab Code: K1010850-002DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.9		
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	45800		
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	24.2		
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	13200		
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	21.4		
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	29500		
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	84200		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1010850  
Project No.: 0907194.000.0601 Date Collected: 09/30/10  
Project Name: Heglar Kronquist Date Received: 10/01/10  
Matrix: WATER Units: ug/L  
Basis: N/A

Sample Name: MW-4 Lab Code: K1010850-003DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.5	J	
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	117000		
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	4.5	J	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	37400		
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	86.7		
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	12000		
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	82300		

% Solids: 0.0

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

<b>Client:</b>	Exponent	<b>Service Request:</b>	K1010850
<b>Project No.:</b>	0907194.000.0601	<b>Date Collected:</b>	09/30/10
<b>Project Name:</b>	Heglar Kronquist	<b>Date Received:</b>	10/01/10
<b>Matrix:</b>	WATER	<b>Units:</b>	ug/L
		<b>Basis:</b>	N/A

**Sample Name:** Equipment Blank                      **Lab Code:** K1010850-004DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.1	U	
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	6.0	U	
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	3.0	U	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	6.1	J	
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	0.20	U	
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	50	U	
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	152	J	

% Solids: 0.0

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client:	Exponent	Service Request:	K1010850
Project No.:	0907194.000.0601	Date Collected:	
Project Name:	Heglar Kronquist	Date Received:	
Matrix:	WATER	Units:	ug/L
		Basis:	N/A

Sample Name:	Method Blank	Lab Code:	K1010850-MB
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Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Arsenic	200.8	0.5	0.1	1.0	11/08/10	11/09/10	0.1	U	
Calcium	200.7	50.0	6.0	1.0	10/09/10	11/11/10	6.0	U	
Iron	200.7	20.0	3.0	1.0	10/09/10	11/11/10	6.2	J	
Magnesium	200.7	20.0	2.0	1.0	10/09/10	11/11/10	2.0	U	
Manganese	200.7	5.00	0.20	1.0	10/09/10	11/11/10	0.20	U	
Potassium	200.7	400	50	1.0	10/09/10	11/11/10	50	U	
Sodium	200.7	300	20	1.0	10/09/10	11/11/10	70	J	

% Solids: 0.0

Comments:

## Metals

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	4960	99	10000	9760	98	9791	98	200.7
Arsenic	25.0	24.8	99	25.0	25.1	100	25.9	104	200.8
Calcium	12500	12320	99	10000	9596	96	9719	97	200.7
Iron	2500	2491	100	10000	9798	98	10020	100	200.7
Magnesium	12500	12460	100	10000	10070	101	9727	97	200.7
Manganese	1250	1234	99	250	242	97	239	96	200.7
Potassium	12500	12370	99	10000	9834	98	9660	97	200.7
Sodium	12500	12720	102	10000	10070	101	9705	97	200.7

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	9627	96	9792	98	200.7
Arsenic				25.0	25.8	103	25.6	102	200.8
Calcium				10000	9651	97	9759	98	200.7
Iron				10000	9784	98	9878	99	200.7
Magnesium				10000	9656	97	10070	101	200.7
Manganese				250	252	101	243	97	200.7
Potassium				10000	9229	92	9680	97	200.7
Sodium				10000	9883	99	9731	97	200.7

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	9844	98	9757	98	200.7
Arsenic				25.0	25.9	104			200.8
Calcium				10000	10100	101	9873	99	200.7
Iron				10000	10250	102	10060	101	200.7
Magnesium				10000	10000	100	9547	95	200.7
Manganese				250	242	97	246	98	200.7
Potassium				10000	9454	95	9264	93	200.7
Sodium				10000	9626	96	9186	92	200.7

**Metals**  
 - 2b -  
**CRDL STANDARD FOR AA AND ICP**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Aluminum				50.0	46.0	92		
Arsenic				0.5	0.53	106		
Arsenic				0.5			0.53	106
Calcium				50.0	50.5	101		
Iron				20.0	28.5	142		
Magnesium				20.0	22.4	112		
Manganese				5.0	5.1	102		
Potassium				400.0	351.0	88		
Sodium				200.0	143.9	72		

**Metals**

- 3 -

**BLANKS**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
	C		1	C	2	C	3	C	
Aluminum	2.0	U	2.5	J	2.0	U	2.0	U	200.7
Arsenic	0.10	U	0.10	U	0.10	U	0.10	U	200.8
Calcium	-15.8	J	-7.1	J	6.0	U	6.0	U	200.7
Iron	3.0	J	4.1	J	8.3	J	3.0	U	200.7
Magnesium	2.0	U	2.0	U	2.0	U	2.9	J	200.7
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	200.7
Potassium	50	U	50	U	50	U	-125	J	200.7
Sodium	30.2	J	-59.8	J	-206.4	J	-73.9	J	200.7

**Metals**

- 3 -

**BLANKS**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Aluminum			2.0	U	-2.5	J	2.0	U	200.7
Arsenic			0.10	U	0.10	U			200.8
Calcium			-9.6	J	6.0	U	6.0	U	200.7
Iron			-3.1	J	3.0	U	3.4	J	200.7
Magnesium			3.3	J	2.0	U	6.1	J	200.7
Manganese			0.2	U	0.2	U	0.2	U	200.7
Potassium			-51	J	-156	J	-52	J	200.7
Sodium			20.0	U	20.0	U	79.6	J	200.7



**Metals**

- 4 -

**ICP INTERFERENCE CHECK SAMPLE**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	471000	473600	95			
Calcium	500000	500000	464900	465400	93			
Iron	200000	200000	184300	184000	92			
Magnesium	500000	500000	309100	305300	61			
Manganese		500	-3	466	93			
Potassium			-43	39				

80-120% control criteria is not applicable to interfering elements (Al, Ca, Fe, Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: Batch QC1S

Lab Code: K1010795-001SDISS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1960		11.5	J	2000.00	97.4		200.7
Arsenic	70 - 130	22.2		1.7		20.00	102.5		200.8
Calcium		71800		61000		10000.00	108.0		200.7
Iron	70 - 130	1020		35.3		1000.00	98.5		200.7
Magnesium	70 - 130	29100		19100		10000.00	100.0		200.7
Manganese	70 - 130	525		62.9		500.00	92.4		200.7
Potassium	70 - 130	14800		4450		10000.00	103.5		200.7
Sodium	70 - 130	29600		18600		10000.00	110.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1010850  
 Project No.: 0907194.000.0601 Units: UG/L  
 Project Name: Heglar Kronquist Basis: N/A  
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC1D

Lab Code: K1010795-001DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		11.5	J	12.3	J	6.7		200.7
Arsenic		1.7		1.7		0.0		200.8
Calcium	20	61000		61800		1.3		200.7
Iron		35.3		46.0		26.3		200.7
Magnesium	20	19100		19500		2.1		200.7
Manganese	20	62.9		63.9		1.6		200.7
Potassium	20	4450		4640		4.2		200.7
Sodium	20	18600		19000		2.1		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	4910	98.2					
Arsenic	20	20.0	100.0					
Calcium	12500	12400	99.2					
Iron	2500	2570	102.8					
Magnesium	12500	12100	96.8					
Manganese	1250	1270	101.6					
Potassium	12500	11800	94.4					
Sodium	12500	11800	94.4					

Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglär Kronquist

Sample Name: Batch QC1L

Lab Code: K1010795-001LDISS

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Aluminum	11.5	J	10.0	U	100.0		P
Calcium	61030		64600		5.8		P
Iron	35.3		74.0	J	109.6		P
Magnesium	19090.0		19735.0		3.4		P
Manganese	62.9		67.0		6.5		P
Potassium	4449		3874		12.9	E	P
Sodium	18610		18825		1.2		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

ICP/ICP-MS ID #: K-ICP-MS-03

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		0.5	0.1	MS

Comments:

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Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	394.4		50	2.0	P
Calcium	315.8		50	6.0	P
Iron	259.9		20	3.0	P
Magnesium	285.2		20	2.0	P
Manganese	257.6		5.0	0.2	P
Potassium	766.5		400	50	P
Sodium	589.5		300	20.0	P

Comments:

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## Metals

- 11A -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	394.401	0.0000000	0.0000880	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000290	0.0000000	-0.0001420	0.0000000	0.0000000
Arsenic	189.042	0.0000220	0.0000000	-0.0000580	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0002330	0.0000000	0.0016240
Cadmium	226.502	0.0000000	0.0000000	0.0000590	0.0000000	0.0000150
Calcium	393.366	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	230.786	0.0000000	0.0000000	-0.0000030	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0001620	0.0000000	0.0006220
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000940	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000130	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0001940
Phosphorus	214.914	-0.0005540	0.0000000	0.0006550	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	-0.0001120	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0014540
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000210	0.0000000	0.0000000	0.0000320
Vanadium	292.402	0.0000000	0.0000000	-0.0000020	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0001010	0.0000000	0.0000000

Comments:



## Metals

- 11B -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Mn	Mo	Ni	P
Aluminum	394.401	0.0000000	0.0000000	0.0004350	0.0003100	0.0000000
Antimony	206.833	0.0173600	-0.0001330	0.0011910	0.0000000	0.0000000
Arsenic	189.042	0.0003470	-0.0001550	0.0005480	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	-0.0000300	-0.0001890	-0.0000190	0.0000000
Boron	249.678	0.0004530	0.0000000	-0.0008670	0.0000000	0.0000000
Cadmium	226.502	0.0000410	0.0000000	-0.0000280	-0.0000170	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0001390	0.0000680	0.0000000	0.0000280
Cobalt	230.786	-0.0000120	0.0000380	0.0011280	-0.0001970	0.0000000
Copper	224.7	0.0000000	0.0000240	0.0025520	-0.0024670	0.0000000
Iron	259.94	0.0000000	0.0000000	-0.0002400	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0001340	-0.0010800	0.0001780	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	-0.0014420	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000110	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0000270	0.0000000	-0.0000310	0.0000000
Nickel	231.604	-0.0000240	0.0000000	-0.0000480	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	-0.0004110	0.0085820	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0006630	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0192220	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000390	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000080	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002570	0.0008680	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000410	0.0001300	0.0000000
Vanadium	292.402	0.0000000	-0.0027450	-0.0002030	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	-0.0001050	0.0057510	0.0000000

Comments:

## Metals

- 11B -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Wave-length (nm)	Interelement Correction Factors for:		
		Si	Ti	V
Aluminum	394.401	0.0000000	0.0000000	0.0005300
Antimony	206.833	-0.0000210	0.0004780	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000280
Beryllium	234.861	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0001270
Cadmium	226.502	-0.0000020	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000590	-0.0000760
Cobalt	230.786	0.0000000	0.0000000	0.0000000
Copper	224.7	-0.0000060	0.0004820	-0.0000300
Iron	259.94	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0002440	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0000780	0.0000910
Sodium	589.592	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0008960	-0.0007350
Tin	189.989	0.0000000	-0.0007490	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0009490	0.0000000
Zinc	213.856	0.0000000	-0.0003230	0.0000000

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	900000	200.7
Calcium	15.000	900000	200.7
Iron	15.000	360000	200.7
Magnesium	15.000	90000	200.7
Manganese	15.000	9000	200.7
Potassium	15.000	900000	200.7
Sodium	15.000	900000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-MS-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.000	2000	200.8

Comments:

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Metals  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1010795-001DDISS	10/09/10	50.0	50.0
K1010795-001SDISS	10/09/10	50.0	50.0
K1010850-001DISS	10/09/10	50.0	50.0
K1010850-002DISS	10/09/10	50.0	50.0
K1010850-003DISS	10/09/10	50.0	50.0
K1010850-004DISS	10/09/10	50.0	50.0
K1010850-MB	10/09/10	50.0	50.0
LCSW	10/09/10	50.0	50.0

Metals  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1010795-001DDISS	11/08/10	50.0	50.0
K1010795-001SDISS	11/08/10	50.0	50.0
K1010850-001DISS	11/08/10	50.0	50.0
K1010850-002DISS	11/08/10	50.0	50.0
K1010850-003DISS	11/08/10	50.0	50.0
K1010850-004DISS	11/08/10	50.0	50.0
K1010850-MB	11/08/10	50.0	50.0
LCSW	11/08/10	50.0	50.0

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
BLK	1	12:52		X					X				X	X	X			X		X											
STD A	1	12:55													X																
STD B	1	12:58		X					X				X	X				X		X											
ICV1	1	13:02		X					X				X	X	X			X		X											
ZZZZZZ	1	13:05																													
ZZZZZZ	1	13:10																													
ICB1	1	13:13		X					X				X	X	X			X		X											
CCV1	1	13:16													X																
CCV1	1	13:20		X					X				X	X				X		X											
CCB1	1	13:26		X					X				X	X	X			X		X											
CRDL1	1	13:29		X					X				X	X	X			X		X											
ZZZZZZ	1	13:32																													
ICSA	1	13:34		X					X				X	X	X			X													
ICSAB	1	13:38		X					X				X	X	X			X													
ZZZZZZ	1	13:42																													
ZZZZZZ	1	13:45																													
ZZZZZZ	1	13:48																													
ZZZZZZ	1	13:51																													
ZZZZZZ	1	13:55																													
ZZZZZZ	1	13:58																													
CCV2	1	14:01													X																
CCV2	1	14:04		X					X				X	X				X		X											
CCB2	1	14:08		X					X				X	X	X			X		X											
ZZZZZZ	1	14:13																													
ZZZZZZ	1	14:16																													
ZZZZZZ	1	14:18																													
ZZZZZZ	1	14:21																													
ZZZZZZ	1	14:24																													
ZZZZZZ	1	14:27																													
ZZZZZZ	1	14:30																													
ZZZZZZ	1	14:33																													
ZZZZZZ	1	14:37																													

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N		
ZZZZZZ	1	14:40																											
CCV3	1	14:43														X													
CCV3	1	14:46		X					X			X	X					X			X								
CCB3	1	14:50		X					X			X	X	X				X			X								
ZZZZZZ	1	14:52																											
ZZZZZZ	1	14:56																											
ZZZZZZ	1	14:59																											
ZZZZZZ	1	15:02																											
ZZZZZZ	1	15:06																											
ZZZZZZ	1	15:10																											
ZZZZZZ	1	15:13																											
K1010850-MB	1	15:16		X					X			X	X	X				X			X								
LCSW	1	15:19		X					X			X	X	X				X			X								
ZZZZZZ	1	15:22																											
CCV4	1	15:25														X													
CCV4	1	15:28		X					X			X	X					X			X								
CCB4	1	15:32		X					X			X	X	X				X			X								
ZZZZZZ	1	15:35																											
K1010795-001DDISS	1	15:38		X					X			X	X	X				X			X								
K1010795-001LDISS	5	15:42		X					X			X	X	X				X			X								
K1010795-001SDISS	1	15:45		X					X			X	X	X				X			X								
ZZZZZZ	1	15:48																											
ZZZZZZ	1	15:52																											
K1010850-001DISS	1	15:54		X					X			X	X	X				X			X								
K1010850-002DISS	1	15:58		X					X			X	X	X				X			X								
K1010850-003DISS	1	16:02		X					X			X	X	X				X			X								
K1010850-004DISS	1	16:05		X					X			X	X	X				X			X								
CCV5	1	16:08														X													
CCV5	1	16:11		X					X			X	X					X			X								
CCB5	1	16:15		X					X			X	X	X				X			X								
ZZZZZZ	1	16:18																											
ZZZZZZ	1	16:21																											

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



**Metals**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 11/11/10

End Date: 11/11/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1	16:24																													
ZZZZZZ	1	16:27																													
ZZZZZZ	1	16:31																													
ZZZZZZ	1	16:34																													
ZZZZZZ	1	16:37																													
ZZZZZZ	1	16:41																													
ZZZZZZ	1	16:44																													
ZZZZZZ	1	16:47																													
CCV6	1	16:51																													
CCV6	1	16:54		X						X			X	X					X			X									
CCB6	1	16:58		X						X			X	X	X				X			X									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 11/09/10

End Date: 11/09/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K S	S E	A G	N A	T L	V L	Z N	C N				
Cal. Blk	1	10:58				X																									
Cal. Stn	1	11:03				X																									
ICV1	1	11:14				X																									
CCV1	1	11:24				X																									
ICB1	1	11:45				X																									
CCB1	1	11:52				X																									
CRA	1	11:57				X																									
ZZZZZZ	1	12:07																													
ZZZZZZ	1	12:12																													
ZZZZZZ	1	12:23																													
ZZZZZZ	1	12:32																													
ZZZZZZ	1	12:42																													
ZZZZZZ	1	12:53																													
ZZZZZZ	1	13:03																													
ZZZZZZ	1	13:14																													
ZZZZZZ	1	13:24																													
CCV2	1	13:34				X																									
CCB2	1	13:55				X																									
ZZZZZZ	1	14:01																													
ZZZZZZ	1	14:11																													
ZZZZZZ	1	14:17																													
ZZZZZZ	1	14:24																													
ZZZZZZ	1	14:31																													
ZZZZZZ	1	14:37																													
K1010850-MB	1	14:44				X																									
LCSW	1	14:49				X																									
ZZZZZZ	1	15:00																													
K1010795-001DDISS	1	15:09				X																									
CRA	1	15:17				X																									
CCV3	1	15:27				X																									
CCB3	1	15:37				X																									
K1010795-001SDISS	1	15:45				X																									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

**Metals**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1010850

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 11/09/10

End Date: 11/09/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1	15:55																													
ZZZZZZ	1	16:05																													
K1010850-001DISS	1	16:10			X																										
K1010850-002DISS	1	16:18			X																										
K1010850-003DISS	1	16:23			X																										
K1010850-004DISS	1	16:29			X																										
ZZZZZZ	1	16:34																													
ZZZZZZ	1	16:39																													
CCV4	1	16:44			X																										
CCB4	1	16:55			X																										
ZZZZZZ	1	17:00																													
ZZZZZZ	1	17:06																													
ZZZZZZ	1	17:11																													
ZZZZZZ	1	17:21																													
ZZZZZZ	1	17:31																													
ZZZZZZ	1	17:41																													
ZZZZZZ	1	17:52																													
ZZZZZZ	1	18:01																													
ZZZZZZ	1	18:11																													
ZZZZZZ	1	18:21																													
CCV5	1	18:41			X																										
CCB5	1	18:52			X																										

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010850  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li_6	Q	Element Sc_45	Q	Element Ga_71	Q	Element Y_89	Q	Element Rh_103	Q	Element In_115	Q
Cal. Blk	Cal. Blk	1058	100				100		100		100		100	
Cal. Stn	Cal. Stn	1103	101				100		100		101		103	
ICV1	ICV1	1114	99				99		99		100		103	
CCV1	CCV1	1124	99				99		100		101		103	
ICB1	ICB1	1145	96				96		96		97		98	
CCB1	CCB1	1152	98				96		97		98		98	
CRA	CRA	1157	98				96		96		97		97	
ZZZZZZ	ZZZZZZ	1207												
ZZZZZZ	ZZZZZZ	1212												
ZZZZZZ	ZZZZZZ	1223												
ZZZZZZ	ZZZZZZ	1232												
ZZZZZZ	ZZZZZZ	1242												
ZZZZZZ	ZZZZZZ	1253												
ZZZZZZ	ZZZZZZ	1303												
ZZZZZZ	ZZZZZZ	1314												
ZZZZZZ	ZZZZZZ	1324												
CCV2	CCV2	1334	93				90		91		92		94	
CCB2	CCB2	1355	92				89		90		91		91	
ZZZZZZ	ZZZZZZ	1401												
ZZZZZZ	ZZZZZZ	1411												
ZZZZZZ	ZZZZZZ	1417												
ZZZZZZ	ZZZZZZ	1424												
ZZZZZZ	ZZZZZZ	1431												
ZZZZZZ	ZZZZZZ	1437												
K1010850-MB	Method Blank	1444	89				86		87		89		90	
LCSW	LCSW	1449	90				87		88		90		91	
ZZZZZZ	ZZZZZZ	1500												
K1010795-001DDIS	Batch QC1D	1509	88				82		85		83		86	
CRA	CRA	1517	87				84		85		87		89	
CCV3	CCV3	1527	85				84		86		88		90	
CCB3	CCB3	1537	84				81		82		84		86	
K1010795-001SDIS	Batch QC1S	1545	81				75		79		78		81	
ZZZZZZ	ZZZZZZ	1555												
ZZZZZZ	ZZZZZZ	1605												
K1010850-001DISS	MW-2	1610	74				69		74		71		75	
K1010850-002DISS	MW-1	1618	73				68		71		70		74	
K1010850-003DISS	MW-4	1623	72				66		71		68		72	
K1010850-004DISS	Equipment Blank	1629	73				69		71		73		75	
ZZZZZZ	ZZZZZZ	1634												
ZZZZZZ	ZZZZZZ	1639												
CCV4	CCV4	1644	76				71		72		74		77	
CCB4	CCB4	1655	73				67		69		72		73	
ZZZZZZ	ZZZZZZ	1700												
ZZZZZZ	ZZZZZZ	1706												
ZZZZZZ	ZZZZZZ	1711												

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010850  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:														
			Element		Element		Element		Element		Element		Element				
			Li_6	Q	Sc_45	Q	Ga_71	Q	Y_89	Q	Rh_103	Q	In_115	Q			
ZZZZZZ	ZZZZZZ	1721															
ZZZZZZ	ZZZZZZ	1731															
ZZZZZZ	ZZZZZZ	1741															
ZZZZZZ	ZZZZZZ	1752															
ZZZZZZ	ZZZZZZ	1801															
ZZZZZZ	ZZZZZZ	1811															
ZZZZZZ	ZZZZZZ	1821															
CCV5	CCV5	1841	69					63		64		67				70	
CCB5	CCB5	1852	68					60		62		65				66	

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601  
 Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010850  
 ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:																	
			Element Lu_175	Q	Element Th_232	Q	Element	Q	Element	Q	Element	Q								
Cal. Blk	Cal. Blk	1058	100		100															
Cal. Stn	Cal. Stn	1103	102		103															
ICV1	ICV1	1114	103		103															
CCV1	CCV1	1124	102		104															
ICB1	ICB1	1145	99		100															
CCB1	CCB1	1152	99		99															
CRA	CRA	1157	99		100															
ZZZZZZ	ZZZZZZ	1207																		
ZZZZZZ	ZZZZZZ	1212																		
ZZZZZZ	ZZZZZZ	1223																		
ZZZZZZ	ZZZZZZ	1232																		
ZZZZZZ	ZZZZZZ	1242																		
ZZZZZZ	ZZZZZZ	1253																		
ZZZZZZ	ZZZZZZ	1303																		
ZZZZZZ	ZZZZZZ	1314																		
ZZZZZZ	ZZZZZZ	1324																		
CCV2	CCV2	1334	97		100															
CCB2	CCB2	1355	95		97															
ZZZZZZ	ZZZZZZ	1401																		
ZZZZZZ	ZZZZZZ	1411																		
ZZZZZZ	ZZZZZZ	1417																		
ZZZZZZ	ZZZZZZ	1424																		
ZZZZZZ	ZZZZZZ	1431																		
ZZZZZZ	ZZZZZZ	1437																		
K1010850-MB	Method Blank	1444	94		96															
LCSW	LCSW	1449	95		98															
ZZZZZZ	ZZZZZZ	1500																		
K1010795-001DDIS	Batch QC1D	1509	93		96															
CRA	CRA	1517	93		96															
CCV3	CCV3	1527	96		100															
CCB3	CCB3	1537	91		94															
K1010795-001SDIS	Batch QC1S	1545	90		95															
ZZZZZZ	ZZZZZZ	1555																		
ZZZZZZ	ZZZZZZ	1605																		
K1010850-001DISS	MW-2	1610	85		90															
K1010850-002DISS	MW-1	1618	83		87															
K1010850-003DISS	MW-4	1623	83		87															
K1010850-004DISS	Equipment Blank	1629	83		88															
ZZZZZZ	ZZZZZZ	1634																		
ZZZZZZ	ZZZZZZ	1639																		
CCV4	CCV4	1644	84		90															
CCB4	CCB4	1655	81		86															
ZZZZZZ	ZZZZZZ	1700																		
ZZZZZZ	ZZZZZZ	1706																		
ZZZZZZ	ZZZZZZ	1711																		

Metals

15-IN

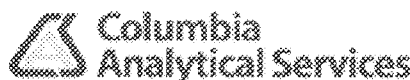
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0601

Lab Code: CAS Case No.: \_\_\_\_\_ NRAS No.: \_\_\_\_\_ SDG NO.: K1010850

ICP-MS Instrument ID: K-ICP-MS-03 Start Date: 11/09/2010 End Date: 11/09/2010

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Lu_175	Q	Element Th_232	Q	Element	Q	Element	Q	Element	Q		
zzzzzz	zzzzzz	1721												
zzzzzz	zzzzzz	1731												
zzzzzz	zzzzzz	1741												
zzzzzz	zzzzzz	1752												
zzzzzz	zzzzzz	1801												
zzzzzz	zzzzzz	1811												
zzzzzz	zzzzzz	1821												
CCV5	CCV5	1841	78		84									
CCB5	CCB5	1852	75		79									

 **Preparation Information Benchsheet**

**Prep Run:** 123142      **Prep Workflow:** MetDigAqICP      **Status:** Prepped      **Prep Date:** 11/09/2010  
**Team:** Metals      **Prep Method:** EPA CLP-      **Current Step:** Digestion      **Due Date:** 10/29/2010  
**Analyst:** JBAILEY      **Prep Method:** METALS      **Rush/NPDES:** NPDES

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1012168-01	Method Blank		50 mL	50 mL			Metals T	5% HCl
KQ1012168-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL 0.5 mL	18109 20255 20797 23177	Metals T	5% HCl
KQ1012168-07	Lab Control Sample		50 mL	50 mL	0.5 mL	19316	Metals T	5% HCl
K1010795-001	MW-6	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-001: KQ1012168-03	Duplicate	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-001: KQ1012168-04	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	20981 21052 22913 23177	Metals D	5% HCl
K1010795-002	MW-5	.05	50 mL	50 mL			Metals D	5% HCl
K1010795-003	EQUIPMENT BLANK	.05	50 mL	50 mL			Metals D	5% HCl
K1010850-001	MW-2	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-002	MW-1	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-003	MW-4	.10	50 mL	50 mL			Metals D	5% HCl
K1010850-004	Equipment Blank	.10	50 mL	50 mL			Metals D	5% HCl
K1010899-001	MW-3	.12	50 mL	50 mL			Metals D	5% HCl
K1010899-002	Equipment Blank	.12	50 mL	50 mL			Metals D	5% HCl
K1011360-001	BA98225	.04	50 mL	50 mL			Metals T	5% HCl
K1011360-001: KQ1012168-05	Duplicate	.04	50 mL	50 mL			Metals T	5% HCl
K1011360-001: KQ1012168-06	Matrix Spike	.04	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	20981 21052 22913 23177	Metals T	5% HCl
K1011360-001: KQ1012168-08	Matrix Spike	.04	50 mL	50 mL	0.5 mL	19316	Metals T	5% HCl
K1011461-001	MW7A	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-002	MW8A	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-003	MW11A	.04	50 mL	50 mL			Metals T	5% HCl



K1011461-004	MW12A	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-005	MW34	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-006	MW35	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-007	MW36	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-008	MW37	.04	50 mL	50 mL			Metals T	5% HCl
K1011461-009	MW38	.04	50 mL	50 mL			Metals T	5% HCl

27 Total Samples consisting of 19 Client Samples, 5 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET QCP-CICV-1	Spike	18109	6/1/2011	K-MET SS3	Spike	21052	12/31/2010
K-MET QCP-CICV-2	Spike	20797	8/1/2011	K-MET SS4	Spike	23177	5/4/2011
K-MET QCP-CICV-3	Spike	20255	8/1/2011	K-MET SS5	Spike	20981	2/25/2011
K-MET SS1	Spike	22913	5/4/2011	Silicon 1000 ug/mL Si	Spike	19316	10/26/2011

**Preparation Materials**

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3	15193	Digestion	K-MET 50ml Centrifuge Tube	22573
Digestion	K-MET HCL	22349			

**Preparation Hardware / Equipment**

Step	Name	Property	Value
Digestion	K-BlockDigerster-06	Temperature	96 deg C


**Preparation Steps**

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	09-NOV-10 09:00	09-NOV-10 11:00	JBAILEY		N	

**Comments**

**Review**

Reviewed by:                      Date: 11/9/10


**Columbia Analytical Services** Preparation Information Benchsheet

**Prep Run:** 123141      **Prep Workflow:** MetDigAqMS      **Status:** Prepped  
**Team:** Metals      **Prep Method:** METALS      **Current Step:** Digestion      **Prep Date:** 11/08/2010  
**Analyst:** JBAILEY      **EPA CLP-ILM04.0**      **Due Date:** 10/29/2010  
**Rush/NPDES:** NPDES

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1012167-05	Method Blank		50 mL	50 mL			Metals T	1% HNO3
KQ1012167-06	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	20439 21569	Metals T	1% HNO3
K1010795-001	MW-6	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-001: KQ1012167-01	Duplicate	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-001: KQ1012167-02	Matrix Spike	.05	50 mL	50 mL	1 mL 1 mL	20439 21569	Metals D	1% HNO3
K1010795-002	MW-5	.05	50 mL	50 mL			Metals D	1% HNO3
K1010795-003	EQUIPMENT BLANK	.05	50 mL	50 mL			Metals D	1% HNO3
K1010850-001	MW-2	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-002	MW-1	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-003	MW-4	.10	50 mL	50 mL			Metals D	1% HNO3
K1010850-004	Equipment Blank	.10	50 mL	50 mL			Metals D	1% HNO3
K1010899-001	MW-3	.12	50 mL	50 mL			Metals D	1% HNO3
K1010899-002	Equipment Blank	.12	50 mL	50 mL			Metals D	1% HNO3
K1011360-001	BA98225	.04	50 mL	50 mL			Metals T	1% HNO3
K1011360-001: KQ1012167-07	Duplicate	.04	50 mL	50 mL			Metals T	1% HNO3
K1011360-001: KQ1012167-08	Matrix Spike	.04	50 mL	50 mL	1 mL 1 mL	20439 21569	Metals T	1% HNO3
K1011461-001	MW7A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-002	MW8A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-003	MW11A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-004	MW12A	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-005	MW34	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-006	MW35	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-007	MW36	.04	50 mL	50 mL			Metals T	1% HNO3

K1011461-008	MW37	.04	50 mL	50 mL			Metals T	1% HNO3
K1011461-009	MW38	.04	50 mL	50 mL			Metals T	1% HNO3

25 Total Samples consisting of 19 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET 200.8 1000ug/L Stock	Spike	21569	3/21/2011	K-MET Ag 1000 ppb Stock	Spike	20439	4/28/2011

**Preparation Materials**

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3 ULTREX	21674	Digestion	K-MET 50ml Centrifuge Tube	22573

**Preparation Hardware / Equipment**


Step	Name	Property	Value
Digestion	K-BlockDigester-05	Temperature	95 deg C

**Preparation Steps**

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	08-NOV-10 16:00	08-NOV-10 19:00	JBAILEY		N	

**Comments**

**Review**

Reviewed by:  Date: 11/9/10

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mLs Added
K-MET SS1	HNO <sub>3</sub>	50.0	1000ml	-	0.5
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	200	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb	50	1000ml	50	
V	100*	1000ml	50		
Zn	100*	1000ml	50		
K-MET SS2	HNO <sub>3</sub>	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
Cu	2.0	500ml	4		
K-MET SS3	HNO <sub>3</sub>	25.0	500ml	-	0.5
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO <sub>3</sub>	25	500ml	-	0.5
	B	50	500ml	100	
	Mn	50	500ml	100	
K-MET SS5	HNO <sub>3</sub>	10.0	200ml	-	0.5
	K <sup>++</sup>	20	200ml	1000	
	Na <sup>++</sup>	20	200ml	1000	
	Mg <sup>++</sup>	20	200ml	1000	
	Ca <sup>++</sup>	20	200ml	1000	

K-MET CFLCSW	HNO <sub>3</sub>	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	0.25
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	0.25
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	0.25
	Cd	no dilution	-	250	

\* Denotes volume of mixed stock standard.

\*\* Denotes 10,000 ppm individual stock standards.

Standard	mLs of standard	ppm	Logbook #	Exp. Date

Service Request # K1010850  
Instrument ID# K-ICP-AES-03

## ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. ICV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. ICB below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. CRI standard analyzed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. ICS standards within 20% of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. All preceding CCVs within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Following CCV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bracketing CCBs below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Method Blank below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. All analytes within instrument linear range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

StarLIMS Run # 224778      Saved under 111110BICP03  
200.7 Calibration. NR Cu2247. NR LL Sr.  
Raise LL K MRL to 0.2ppm. *Na MRL = 0.3 ppm.*  
Report Cd2265, Cu3273, Zn2062, *Al3944, Ca3158, Mg2852.*

Primary Review by *mmr*      Date *11/11/10*

Secondary Review by *sc*      Date *11/11/10*

Sample Name: BLK      Acquired: 11/11/2010 12:52:38      Type: Cal

Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	-65.94	8.321	3.629	.0619	-4.4607	42.09
Stddev	.0000	6.28	.637	.062	.0085	6.3790	4.83
%RSD	9.749	9.518	7.654	1.716	13.74	143.00	11.47

#1	.0003	-70.38	7.871	3.585	.0679	.04995	45.50
#2	.0003	-61.50	8.772	3.673	.0559	-8.9713	38.68

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0010	-.0002	.0067	.1258	-.0001	.0003	-.0025
Stddev	.0018	.0003	.0021	.0055	.0001	.0003	.0000
%RSD	177.8	123.0	31.71	4.377	81.57	114.1	1.438

#1	-.0003	-.0004	.0052	.1219	.0000	.0005	-.0024
#2	.0023	.0000	.0082	.1297	-.0002	.0001	-.0025

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.47	-.0006	.0017	-.0007	.0116	6.400	.0004
Stddev	2.63	.0003	.0004	.0001	.0007	.424	.0001
%RSD	18.20	49.20	21.52	18.36	6.370	6.629	25.59

#1	16.33	-.0009	.0014	-.0007	.0121	6.100	.0003
#2	12.61	-.0004	.0019	-.0006	.0111	6.700	.0004

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0011	.0004	85.80	2.339	-23.22	421.9
Stddev	.000	.0002	.0003	1.91	.750	3.25	5.2
%RSD	1803.	17.17	77.25	2.225	32.06	13.97	1.241

#1	.0000	.0012	.0002	84.45	2.870	-20.93	418.2
#2	.0000	.0009	.0005	87.15	1.809	-25.52	425.6

Sample Name: BLK      Acquired: 11/11/2010 12:52:38      Type: Cal

Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	.0007	.0024	14.58	8.736	.2091	.0019
Stddev	.0001	.0001	.0001	.56	1.270	1.009	.0001
%RSD	37.18	7.646	5.309	3.817	14.53	482.7	6.426
#1	.0002	.0006	.0023	14.98	9.634	-.5045	.0018
#2	.0003	.0007	.0024	14.19	7.838	.9227	.0020

Elem	Tl1908	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S
Avg	-.0034	24.58	-.00717
Stddev	.0001	7.53	.00426
%RSD	2.876	30.64	59.413
#1	-.0035	19.25	-.00416
#2	-.0034	29.90	-.01018

*check 11/11/10*

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5926.5	109080.	1449.5	1444.1
Stddev	.6	2.	8.1	.8
%RSD	.00956	.00209	.55708	.05329
#1	5926.9	109080.	1455.3	1443.6
#2	5926.1	109080.	1443.8	1444.7

*JAC*  
*11/11/10*

Sample Name: STD A      Acquired: 11/11/2010 12:55:47      Type: Cal  
 Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-21-B

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Ca3933	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>.3613</b>	<b>512.1</b>	<b>57535.</b>	<b>3862.</b>	<b>13.49</b>	<b>2.679</b>	<b>14.48</b>	<b>.1294</b>
Stddev	.0024	.2	299.	27.	.11	.019	.08	.0003
%RSD	.6624	.0369	.51884	.6911	.8204	.7134	.5676	.2259

#1	.3596	512.0	57746.	3881.	13.41	2.666	14.42	.1296
#2	.3630	512.3	57324.	3843.	13.57	2.693	14.54	.1292

Elem	Co2307	Cu2247	Cu3273	Pb2203	Mg2795	Mn2576	Mo2020	Ni2216
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>.7932</b>	<b>1.927</b>	<b>11430.</b>	<b>.7838</b>	<b>6.469</b>	<b>.6339</b>	<b>.6278</b>	<b>.9549</b>
Stddev	.0050	.019	76.	.0071	.016	.0003	.0048	.0089
%RSD	.6329	1.008	.6663	.9031	.2539	.0494	.7645	.9293

#1	.7897	1.913	11480.	.7788	6.458	.6341	.6244	.9486
#2	.7968	1.941	11380.	.7888	6.481	.6337	.6312	.9612

Elem	Se1960	Ag3280	Sn1899	V_2924	Zn2062	Zn2138	Ti3361	Ti1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>409.2</b>	<b>15960.</b>	<b>.5775</b>	<b>.1335</b>	<b>3.549</b>	<b>12520.</b>	<b>.4540</b>	<b>.4419</b>
Stddev	2.8	29.	.0054	.0000	.036	61.	.0006	.0026
%RSD	.6868	.1827	.9395	.0007	1.019	.4872	.1280	.5776

#1	407.2	15980.	.5737	.1335	3.524	12480.	.4536	.4401
#2	411.2	15940.	.5814	.1335	3.575	12570.	.4544	.4437

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>5847.3</b>	<b>106630.</b>	<b>1406.7</b>	<b>1429.1</b>
Stddev	17.4	584.	1.5	6.8
%RSD	.29774	.54756	.10786	.47777

#1	5859.6	107040.	1405.7	1434.0
#2	5835.0	106220.	1407.8	1424.3



Sample Name: STD B      Acquired: 11/11/2010 12:58:43      Type: Cal

Method: 10C2007(v48)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-18-C

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 113200.	1484.	141.0	4.407	6.101	.9155
Stddev	598.	19.	.7	.048	.032	.0037
%RSD	.5279	1.259	.5278	1.097	.5283	.4016

#1	112800.	1498.	141.6	4.441	6.124	.9181
#2	113700.	1471.	140.5	4.373	6.079	.9129

Elem	Mg2852	Mn2605	K_7664	Na5895	P_2149	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 18730.	.0180	4207.	7363.	12330.	2246.
Stddev	7.	.0000	1.	48.	132.	17.
%RSD	.0376	.1575	.0274	.6489	1.069	.7523

#1	18730.	.0179	4206.	7397.	12420.	2258.
#2	18740.	.0180	4208.	7329.	12240.	2234.

Elem	Li6707	Sr4077
Units	Cts/S	Cts/S
Avg	8894.	30.626
Stddev	29.	.099
%RSD	.3298	.32362

#1	8873.	30.696
#2	8915.	30.555

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5753.8	102480.	1421.5	1402.1
Stddev	116.4	318.	8.1	31.4
%RSD	2.0238	.31053	.56762	2.2381

#1	5671.4	102260.	1415.8	1379.9
#2	5836.1	102710.	1427.2	1424.3

Sample Name: ICV1      Acquired: 11/11/2010 13:02:10      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-17-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>4.158</b>	<b>4.960</b>	<b>2.465</b>	<b>2.540</b>	<b>4.902</b>	<b>.12637</b>	<b>.0009</b>	<b>1.214</b>
Stddev	.019	.019	.009	.006	.025	.00013	.0005	.006
%RSD	.4484	.3807	.3440	.2541	.5075	.10366	50.67	.4744
#1	4.145	4.974	2.459	2.535	4.919	.12646	.0012	1.210
#2	4.172	4.947	2.471	2.544	4.884	.12628	.0006	1.218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>1.217</b>	<b>12.32</b>	<b>12.17</b>	<b>.5005</b>	<b>1.234</b>	<b>.6167</b>	<b>.6337</b>	<b>2.491</b>
Stddev	.008	.11	.23	.0008	.008	.0041	.0000	.015
%RSD	.6327	.8685	1.869	.1512	.6448	.6600	.0070	.5993
#1	1.212	12.39	12.33	.5000	1.228	.6138	.6337	2.501
#2	1.223	12.24	12.01	.5010	1.239	.6196	.6336	2.480
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>2.461</b>	<b>12.38</b>	<b>12.00</b>	<b>12.46</b>	<b>1.234</b>	<b>1.212</b>	<b>1.971</b>	<b>1.223</b>
Stddev	.014	.02	.07	.06	.001	.022	.014	.008
%RSD	.5612	.1673	.5594	.4429	.1172	1.858	.6927	.6791
#1	2.451	12.36	12.05	12.42	1.235	1.196	1.962	1.217
#2	2.471	12.39	11.96	12.50	1.233	1.228	1.981	1.229
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV1      Acquired: 11/11/2010 13:02:10      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-17-B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.37	2.451	.6256	12.72	.0013	1.261	1.225	1.230
Stddev	.15	.002	.0027	.11	.0002	.000	.007	.003
%RSD	1.209	.0681	.4260	.8710	16.91	.0294	.5525	.2632
#1	12.27	2.450	.6275	12.64	.0015	1.261	1.220	1.227
#2	12.48	2.452	.6238	12.80	.0011	1.261	1.229	1.232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0155	.0125	1.972	2.481	.0057	.00024
Stddev	.0018	.0021	.001	.006	.0013	.00015
%RSD	11.37	16.93	.0242	.2394	23.56	61.670
#1	-.0168	.0140	1.972	2.477	.0067	.00035
#2	-.0143	.0110	1.972	2.485	.0048	.00014

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5837.8	106640.	1427.8	1424.7
Stddev	23.4	231.	18.8	4.0
%RSD	.40026	.21708	1.3197	.28068
#1	5854.3	106800.	1414.5	1427.5
#2	5821.3	106480.	1441.1	1421.9

Sample Name: ICVB1      Acquired: 11/11/2010 13:05:22      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICP8-16-F

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9871	.9874	.0001	.0020	.0022	-.00009	2.036	.0003
Stddev	.0034	.0015	.0002	.0021	.0006	.00000	.004	.0000
%RSD	.3418	.1504	400.0	107.0	28.40	1.7332	.2060	2.218
#1	.9847	.9864	-.0001	.0005	.0018	-.00009	2.039	.0003
#2	.9895	.9885	.0002	.0034	.0027	-.00009	2.033	.0003
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	4.999	4.971	.0008	.0001	.0065	-.0001	9.971
Stddev	.0000	.036	.040	.0004	.0001	.0004	.0010	.087
%RSD	4.333	.7190	.8056	55.36	35.52	5.659	1076.	.8693
#1	.0003	4.973	4.943	.0011	.0001	.0068	.0006	9.910
#2	.0003	5.024	5.000	.0005	.0002	.0063	-.0008	10.03
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	4.978	4.929	5.106	9.417	9.753	.0011	.0008
Stddev	.0004	.113	.042	.000	.009	.024	.0003	.0003
%RSD	122.1	2.278	.8549	.0044	.0945	.2415	27.57	30.83
#1	.0000	4.898	4.899	5.106	9.424	9.770	.0013	.0010
#2	-.0006	5.058	4.959	5.106	9.411	9.736	.0009	.0006
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None
Value								
Range								

Sample Name: ICVB1      Acquired: 11/11/2010 13:05:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-F

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0009	-0.0006	.0003	.1221	5.030	.0138	.0015	.0015
Stddev	.1098	.0006	.0001	.0305	.028	.0001	.0001	.0001
%RSD	12630.	88.46	32.96	24.95	.5623	.4919	3.593	3.784

#1	.0768	-.0010	.0004	.1437	5.010	.0139	.0015	.0016
#2	-.0785	-.0002	.0002	.1006	5.050	.0138	.0015	.0015

Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.212	5.225	.0008	.0073	1.942	1.9722
Stddev	.015	.024	.0002	.0019	.006	.0169
%RSD	.2781	.4579	20.75	26.81	.2868	.85707

#1	5.202	5.242	.0009	.0059	1.939	1.9602
#2	5.222	5.208	.0006	.0086	1.946	1.9841

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5777.2	108100.	1438.4	1411.4
Stddev	2.2	199.	11.3	3.3
%RSD	.03748	.18454	.78562	.23102

#1	5778.7	107960.	1446.4	1413.7
#2	5775.6	108240.	1430.4	1409.1

Sample Name: ICB      Acquired: 11/11/2010 13:10:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0028	-.0007	.0028	-.0004	.00005	.0025
Stddev	.0001	.0008	.0011	.0007	.0002	.00010	.0003
%RSD	33.52	29.58	147.6	23.85	38.84	179.54	13.76
#1	.0001	-.0022	-.0015	.0033	-.0005	.00012	.0022
#2	.0002	-.0033	.0000	.0024	-.0003	-.00001	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-.0204	.0004	.0002	.0002	.0000
Stddev	.000	.0000	.0160	.0000	.0002	.0001	.0000
%RSD	20.80	93.05	78.74	10.61	120.3	75.82	257.7
#1	.0000	.0001	-.0090	.0004	.0000	.0001	.0000
#2	.0000	.0000	-.0317	.0005	.0003	.0003	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0093	-.0007	.0331	-.0001	-.0021	.0002
Stddev	.0007	.0050	.0012	.0588	.0002	.0051	.0000
%RSD	91.25	53.97	168.7	177.5	156.3	246.6	28.50
#1	-.0014	.0057	.0001	.0747	-.0002	.0015	.0001
#2	-.0003	.0128	-.0016	-.0084	.0000	-.0057	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

*Checked  
11/11/10*

Sample Name: ICB      Acquired: 11/11/2010 13:10:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0003	.0001	F -.1213	-.0013	.0003	.0022
Stddev	.0006	.0002	.0001	.0927	.0014	.0003	.0833
%RSD	343.2	63.34	99.96	76.37	108.9	97.06	3756.
#1	.0006	-.0005	.0002	-.0558	-.0022	.0001	.0611
#2	-.0003	-.0002	.0000	-.1869	-.0003	.0006	-.0567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.1000			
Low Limit				-.1000			

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0001	.0001	.0001	-.0044	.0234	.0000
Stddev	.0001	.0001	.0001	.0000	.0037	.0083	.000
%RSD	5.320	135.9	79.71	22.08	85.13	35.54	703.7
#1	.0013	.0000	.0001	.0001	-.0018	.0292	.0000
#2	.0014	.0002	.0000	.0001	-.0070	.0175	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0017	.0039	F .00042
Stddev	.0007	.0035	.00030
%RSD	44.59	90.69	71.516
#1	.0011	.0014	.00063
#2	.0022	.0063	.00021
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.00020
Low Limit			-.00020

*Checked  
11/11/10*

Sample Name: ICB - Acquired: 11/11/2010 13:10:11 Type: QC  
Method: 10C2007(v48) Mode: CONC Corr. Factor: 1.000000  
User: admin : : :  
Comment: 111110B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5902.5	109010.	1449.2	1439.9
Stddev	2.9	31.	8.8	4.0
%RSD	.04835	.02837	.60697	.27816
#1	5900.5	109030.	1443.0	1437.1
#2	5904.5	108990.	1455.5	1442.7

*cccccc*  
*11/11/10*



Sample Name: ICB      Acquired: 11/11/2010 13:13:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	-.0009	.0026	.0004	-.00001	.0016	.0000
Stddev	.0001	.0002	.0003	.0014	.0006	.00004	.0007	.000
%RSD	24.40	32.11	32.34	52.60	151.3	321.49	44.32	270.7
#1	.0003	.0009	-.0007	.0036	.0000	-.00004	.0011	.0000
#2	.0004	.0006	-.0011	.0016	.0008	.00002	.0022	-.0001

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0158	.0003	.0004	.0000	.0000	-.0001	.0030
Stddev	.000	.0105	.0001	.0002	.0000	.001	.0002	.0106
%RSD	281.7	66.08	20.19	42.20	131.5	1229.	183.3	355.8
#1	.0000	-.0084	.0004	.0006	.0000	-.0004	-.0003	-.0045
#2	.0000	-.0232	.0003	.0003	.0000	.0003	.0000	.0105

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0390	-.0003	.0019	.0001	.0015	-.0007	.0000
Stddev	.0010	.0114	.0001	.0009	.0000	.0007	.0002	.0002
%RSD	338.0	29.32	53.44	47.11	16.98	47.18	21.73	511.9
#1	-.0010	-.0470	-.0004	.0013	.0002	.0010	-.0006	.0002
#2	.0004	-.0309	-.0002	.0026	.0001	.0019	-.0008	-.0001

Check ?      Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Sample Name: ICB      Acquired: 11/11/2010 13:13:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B RERUN

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0050	-0.0031	-0.0001	.0302	.0009	.0000	.0001	.0000
Stddev	.1491	.0010	.0004	.0308	.0003	.000	.0002	.0001
%RSD	2997.	31.30	684.0	102.0	38.25	621.4	123.4	643.0
#1	-.1104	-.0024	-.0004	.0520	.0006	.0001	.0000	.0000
#2	.1005	-.0038	.0002	.0084	.0011	-.0001	.0003	.0000

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0024	.0229	.0000	.0004	.0024	.00010
Stddev	.0069	.0581	.0001	.0007	.0020	.00002
%RSD	293.3	253.7	137.8	156.9	84.25	21.650
#1	.0025	-.0182	.0001	.0000	.0010	.00008
#2	-.0072	.0639	.0000	.0009	.0038	.00011

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5921.2	109090.	1427.8	1446.5
Stddev	8.9	12.	11.0	2.1
%RSD	.14956	.01120	.76861	.14387
#1	5927.4	109100.	1435.6	1448.0
#2	5914.9	109080.	1420.0	1445.0

Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2489	.2350	.2484	.2572	.2418	.24982	.2522	.2474
Stddev	.0036	.0032	.0021	.0018	.0012	.00103	.0016	.0036
%RSD	1.452	1.356	.8258	.7044	.5089	.41087	.6251	1.465

#1	.2462	.2397	.2459	.2558	.2412	.25063	.2503	.2447
#2	.2471	.2345	.2496	.2559	.2425	.24875	.2522	.2463
#3	.2481	.2331	.2476	.2573	.2432	.24913	.2520	.2459
#4	.2542	.2328	.2504	.2597	.2404	.25076	.2541	.2527

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2491	.2342	.2494	.2450	.2473	.2459	.2516	.2489
Stddev	.0037	.0072	.0013	.0009	.0039	.0038	.0013	.0085
%RSD	1.478	3.071	.5173	.3723	1.576	1.554	.5152	3.433

#1	.2464	.2332	.2500	.2441	.2439	.2432	.2527	.2474
#2	.2477	.2313	.2509	.2454	.2466	.2449	.2508	.2407
#3	.2478	.2445	.2487	.2444	.2459	.2439	.2502	.2609
#4	.2545	.2280	.2480	.2461	.2529	.2515	.2527	.2465

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	.2794	.2449	.2546	.2421	.2419	.2475	.2496
Stddev	.0039	.0357	.0012	.0042	.0011	.0031	.0039	.0039
%RSD	1.562	12.77	.4772	1.653	.4355	1.278	1.557	1.570
#1	.2446	.3133	.2447	.2599	.2418	.2377	.2443	.2467
#2	.2469	.2523	.2464	.2544	.2418	.2430	.2462	.2480
#3	.2470	.3069	.2451	.2547	.2413	.2451	.2464	.2486
#4	.2536	.2450	.2435	.2496	.2437	.2419	.2531	.2554
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319	.2456	.2492	.2985	.2466	.2439	.2491	.2489
Stddev	.081	.0022	.0006	.0473	.0031	.0015	.0037	.0015
%RSD	3.503	.8891	.2372	15.84	1.264	.6024	1.491	.5873
#1	2.319	.2441	.2492	.2325	.2441	.2428	.2462	.2480
#2	2.426	.2441	.2487	.3060	.2456	.2444	.2482	.2484
#3	2.230	.2455	.2488	.3448	.2457	.2427	.2474	.2482
#4	2.299	.2487	.2500	.3107	.2512	.2458	.2545	.2511
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA1      Acquired: 11/11/2010 13:16:33      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0091	.1506	.2462	.2473	.0028	.00013
Stddev	.0019	.0249	.0007	.0038	.0026	.00037
%RSD	20.92	16.56	.2984	1.521	91.28	283.75

#1	-.0064	.1839	.2457	.2445	.0032	.00057
#2	-.0099	.1546	.2462	.2474	.0058	-.00016
#3	-.0093	.1273	.2456	.2447	.0027	.00031
#4	-.0109	.1365	.2472	.2526	-.0004	-.00019

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5873.8	108970.	1441.3	1442.0
Stddev	54.7	396.	7.4	13.2
%RSD	.93051	.36353	.51610	.91213

#1	5923.0	109550.	1441.8	1453.6
#2	5888.2	108690.	1432.3	1443.2
#3	5888.5	108730.	1440.8	1447.8
#4	5795.6	108890.	1450.5	1423.3

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>6.946</b>	<b>9.760</b>	<b>-0.018</b>	<b>1.020</b>	<b>9.723</b>	<b>.00002</b>	<b>.0020</b>	<b>.0000</b>
Stddev	.065	.022	.0010	.003	.060	.00002	.0007	.0000
%RSD	.9378	.2242	53.06	.2672	.6181	94.497	32.74	77.82
#1	6.908	9.739	-0.0022	1.018	9.725	.00005	.0026	.0000
#2	6.907	9.765	-0.0012	1.018	9.661	.00002	.0012	.0001
#3	6.926	9.749	-0.0009	1.020	9.703	.00003	.0018	.0000
#4	7.043	9.789	-0.0030	1.024	9.804	.00000	.0024	.0000
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0001</b>	<b>9.596</b>	<b>9.523</b>	<b>.0005</b>	<b>.0001</b>	<b>.0065</b>	<b>-.0003</b>	<b>9.798</b>
Stddev	.0001	.040	.073	.0002	.0002	.0003	.0006	.073
%RSD	67.82	.4180	.7716	51.74	174.2	4.336	169.8	.7420
#1	.0001	9.592	9.443	.0008	.0000	.0062	.0000	9.747
#2	.0002	9.548	9.494	.0005	.0002	.0068	-.0007	9.752
#3	.0000	9.597	9.537	.0002	.0002	.0064	-.0009	9.790
#4	.0001	9.646	9.616	.0004	-.0001	.0066	.0003	9.903
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value Range								

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>-0.0008</b>	<b>9.643</b>	<b>9.493</b>	<b>10.07</b>	<b>.9858</b>	<b>.9603</b>	<b>-0.0005</b>	<b>-0.0002</b>
Stddev	.0010	.075	.056	.01	.0033	.0076	.0002	.0001
%RSD	117.5	.7801	.5896	.1216	.3374	.7939	51.58	62.21
#1	-0.0009	9.641	9.479	10.07	.9854	.9657	-0.0005	-0.0004
#2	.0001	9.540	9.427	10.05	.9906	.9594	-0.0003	-0.0003
#3	-0.0022	9.678	9.506	10.08	.9830	.9662	-0.0003	-0.0002
#4	-0.0004	9.715	9.561	10.07	.9843	.9498	-0.0008	.0000
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>9.834</b>	<b>-0.0029</b>	<b>.0003</b>	<b>10.07</b>	<b>.0005</b>	<b>.0016</b>	<b>.0001</b>	<b>.0003</b>
Stddev	.130	.0014	.0003	.09	.0005	.0004	.0001	.0001
%RSD	1.323	48.74	115.6	.8885	91.31	23.21	47.32	29.20
#1	9.642	-0.0049	-0.0001	10.13	.0003	.0018	.0002	.0002
#2	9.926	-0.0024	.0001	10.14	.0009	.0017	.0002	.0004
#3	9.871	-0.0016	.0006	9.947	.0000	.0011	.0001	.0003
#4	9.897	-0.0026	.0004	10.06	.0009	.0019	.0001	.0002
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Sample Name: CCVB1      Acquired: 11/11/2010 13:20:39      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.21	10.24	.0004	.0016	.9686	.96224
Stddev	.03	.05	.0001	.0012	.0045	.00699
%RSD	.2560	.4500	33.05	74.08	.4604	.72649

#1	10.18	10.28	.0004	.0016	.9683	.96291
#2	10.21	10.19	.0006	.0010	.9691	.95330
#3	10.19	10.21	.0004	.0005	.9739	.96238
#4	10.24	10.28	.0002	.0032	.9630	.97037

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5849.3	107670.	1467.9	1431.5
Stddev	47.9	491.	9.7	13.4
%RSD	.81918	.45603	.66388	.93726

#1	5866.5	107290.	1468.7	1438.3
#2	5883.8	107240.	1477.7	1441.1
#3	5868.3	107890.	1470.7	1434.9
#4	5778.3	108260.	1454.4	1411.7



Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0025	-.0025	.0003	-.0008	.00003	.0009
Stddev	.0002	.0043	.0008	.0013	.0011	.00006	.0007
%RSD	56.54	170.8	34.26	372.4	125.8	185.97	82.65
#1	.0002	.0056	-.0019	.0013	-.0001	-.00001	.0014
#2	.0004	-.0005	-.0031	-.0006	-.0016	.00008	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	-.0071	.0007	.0004	-.0003	.0002
Stddev	.000	.0000	.0165	.0000	.0002	.0003	.0002
%RSD	148.9	43.97	230.6	5.475	43.04	103.0	94.55
#1	.0000	.0001	-.0188	.0007	.0003	-.0005	.0001
#2	-.0001	.0001	.0045	.0006	.0006	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0041	-.0005	.0041	.0000	.0017	.0001
Stddev	.0012	.0089	.0004	.0445	.000	.0051	.0000
%RSD	2351.	217.1	85.30	1084.	242.2	293.6	8.463
#1	-.0008	.0104	-.0008	.0356	.0000	.0053	.0001
#2	.0009	-.0022	-.0002	-.0274	-.0001	-.0019	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0007	.0001	-.0411	-.0019	.0005	-.0598
Stddev	.0001	.0001	.0002	.1210	.0027	.0007	.0509
%RSD	137.9	14.45	123.5	294.1	140.4	130.8	85.05
#1	-.0001	-.0006	.0000	.0444	-.0038	.0010	-.0958
#2	.0000	-.0008	.0003	-.1267	.0000	.0000	-.0238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	-.0001	.0001	-.0084	-.0078	.0000
Stddev	.0005	.0004	.0001	.0000	.0028	.0093	.0002
%RSD	158.1	794.9	117.2	32.94	33.70	119.0	669.4
#1	-.0007	-.0002	.0000	.0001	-.0105	-.0144	-.0001
#2	.0000	.0003	-.0002	.0001	-.0064	-.0012	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000	.0028	F .00023
Stddev	.000	.0000	.00006
%RSD	1554.	1.426	24.737
#1	.0003	.0028	.00027
#2	-.0003	.0028	.00019
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.00020
Low Limit			-.00020

Sample Name: CCB1      Acquired: 11/11/2010 13:26:07      Type: QC  
Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      :      :      :  
Comment: 111110B

Int. Std.	Y_2243	Y_3600	Y_3600-2	ln2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5948.2	108320.	1421.5	1447.1
Stddev	9.5	399.	5.3	3.0
%RSD	.15912	.36854	.37234	.20748
#1	5941.5	108040.	1425.2	1445.0
#2	5954.8	108600.	1417.7	1449.2

Sample Name: CRI      Acquired: 11/11/2010 13:29:17      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin  
 Comment: 111110B ICP8-16-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504	.0460	.0486	.1022	.0047	.00521	.0494	.0048
Stddev	.0003	.0007	.0020	.0005	.0005	.00007	.0013	.0000
%RSD	.5076	1.594	4.088	.4411	10.40	1.2994	2.630	.0206
#1	.0502	.0455	.0472	.1018	.0044	.00516	.0503	.0048
#2	.0506	.0465	.0500	.1025	.0051	.00525	.0485	.0048

Check ?      None   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0505	.0517	.0054	.0097	.0099	.0101	.0285
Stddev	.0000	.0042	.0000	.0000	.0000	.0001	.0006	.0041
%RSD	.0950	8.373	.0274	.0268	.2393	1.240	5.528	14.32
#1	.0049	.0535	.0517	.0054	.0098	.0099	.0105	.0314
#2	.0048	.0475	.0517	.0054	.0097	.0098	.0097	.0256

Check ?      Chk Pass   Chk Pass      None   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0495	.0362	.0202	.0224	.0051	.0061	.0091	.0200
Stddev	.0001	.0206	.0001	.0028	.0000	.0009	.0003	.0002
%RSD	.1156	56.83	.4549	12.30	.9575	14.66	3.667	.9776
#1	.0495	.0508	.0203	.0244	.0051	.0067	.0089	.0198
#2	.0495	.0217	.0201	.0205	.0051	.0054	.0094	.0201

Check ?      Chk Pass      None      None   Chk Pass   Chk Pass      None   Chk Pass   Chk Pass  
 Value  
 Range

Sample Name: CRI      Acquired: 11/11/2010 13:29:17      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3510	.0952	.0097	.1439	.0497	.0100	.0103	.0104
Stddev	.0849	.0000	.0000	.0442	.0003	.0004	.0000	.0001
%RSD	24.20	.0100	.2284	30.73	.5932	3.856	.1568	.7161
#1	.4111	.0952	.0097	.1751	.0499	.0097	.0103	.0103
#2	.2910	.0952	.0097	.1126	.0495	.0102	.0103	.0104

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1916	.4293	.0098	.1974	.0150	.01018
Stddev	.0016	.0062	.0001	.0002	.0005	.00016
%RSD	.8471	1.442	1.482	.0900	3.451	1.5585
#1	.1904	.4337	.0097	.1972	.0147	.01030
#2	.1927	.4249	.0099	.1975	.0154	.01007

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5871.6	106990.	1393.2	1435.2
Stddev	22.8	143.	9.2	5.0
%RSD	.38847	.13363	.66157	.34954
#1	5887.8	106880.	1386.7	1438.8
#2	5855.5	107090.	1399.7	1431.7

Sample Name: CRI      Acquired: 11/11/2010 13:32:23      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICAP ICP8-11-A 0.1/10

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0006	.0095	.0119	.0019	.00021	.0099	.0004
Stddev	.0001	.0026	.0020	.0002	.0008	.00002	.0002	.0000
%RSD	5.701	441.7	21.05	1.987	43.51	7.2142	2.042	2.739

#1	.0018	-.0012	.0109	.0117	.0013	.00020	.0100	.0004
#2	.0020	.0024	.0081	.0121	.0025	.00022	.0098	.0005

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0017	.0046	.0021	.0009	.0021	.0021	.0075
Stddev	.0000	.0067	.0001	.0000	.0001	.0000	.0007	.0019
%RSD	1.081	386.6	2.792	.3078	5.717	.3485	31.09	25.34

#1	.0005	-.0064	.0045	.0021	.0010	.0021	.0026	.0061
#2	.0005	.0030	.0047	.0021	.0009	.0021	.0016	.0088

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	.0153	.0015	.0036	.0005	.0026	.0011	.0021
Stddev	.0002	.0312	.0002	.0050	.0000	.0009	.0000	.0000
%RSD	1.839	204.2	13.85	139.2	7.648	34.55	2.030	.9638

#1	.0087	-.0068	.0016	.0071	.0005	.0020	.0011	.0021
#2	.0089	.0374	.0014	.0001	.0006	.0033	.0011	.0021

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI      Acquired: 11/11/2010 13:32:23      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B ICAP ICP8-11-A 0.1/10

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0197	.0169	.0022	.1815	.0096	.0022	.0019	.0020
Stddev	.0202	.0006	.0004	.0282	.0011	.0003	.0001	.0000
%RSD	103.0	3.537	20.20	15.51	11.73	11.20	6.431	1.846
#1	.0053	.0164	.0025	.1616	.0088	.0021	.0020	.0020
#2	.0340	.0173	.0019	.2014	.0104	.0024	.0018	.0021

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.1000							
Range	-50.00%							

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133	.0511	.0010	.0095	.0143	.00039
Stddev	.0018	.0093	.0000	.0002	.0000	.00021
%RSD	13.84	18.27	.0713	2.004	.3350	54.297
#1	.0120	.0577	.0010	.0097	.0143	.00024
#2	.0146	.0445	.0010	.0094	.0142	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5975.1	108580.	1431.0	1455.8
Stddev	27.2	260.	14.1	5.3
%RSD	.45551	.23981	.98482	.36139
#1	5994.4	108760.	1421.0	1459.5
#2	5955.9	108390.	1440.9	1452.1

*Handwritten note:*  
+ USE 0.2 ppm K  
MUMUK  
11/11/10

Sample Name: ICSA      Acquired: 11/11/2010 13:34:56      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-12-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.85	471.0	.0079	-.0013	.0026	-.00027	.0064	.0005
Stddev	.05	.3	.0034	.0024	.0002	.00002	.0006	.0001
%RSD	.2938	.0636	43.03	178.7	5.814	8.6134	9.836	19.31
#1	15.82	470.8	.0103	-.0030	.0025	-.00025	.0060	.0005
#2	15.88	471.2	.0055	.0004	.0027	-.00029	.0069	.0006
Check ?	None	Chk Pass	None	None	None	None	None	None
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	464.9	*****	.0062	-.0040	.1158	-.0018	184.3
Stddev	.0000	.9	----	.0005	.0006	.0022	.0006	.3
%RSD	1.328	.1998	----	7.531	14.25	1.863	33.63	.1819
#1	.0016	465.5	----	.0066	-.0036	.1142	-.0023	184.5
#2	.0016	464.2	----	.0059	-.0044	.1173	-.0014	184.1
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	482.5	200.1	309.1	-.0027	-.0032	-.0009	.0010
Stddev	.0012	2.1	1.2	2.4	.0000	.0021	.0006	.0000
%RSD	66.35	.4272	.6194	.7685	1.815	63.79	66.70	2.888
#1	-.0027	484.0	200.9	307.4	-.0027	-.0018	-.0005	.0011
#2	-.0010	481.1	199.2	310.8	-.0026	-.0047	-.0013	.0010
Check ?	None	Chk Pass	None	None	None	None	None	None
Value Range								



Sample Name: ICSA      Acquired: 11/11/2010 13:34:56      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-12-C

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0428	-.0171	-.0005	-.5233	.0007	.0010	.0040	.0047
Stddev	.0222	.0043	.0004	.0575	.0000	.0004	.0000	.0001
%RSD	51.85	25.03	88.03	10.99	.8965	36.74	.9358	3.186

#1	-.0585	-.0202	-.0002	-.4826	.0007	.0008	.0041	.0048
#2	-.0271	-.0141	-.0007	-.5639	.0007	.0013	.0040	.0046

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0415	.0007	-.0025	.0063	.02645
Stddev	.0056	.0023	.0001	.0007	.0029	.00015
%RSD	40.43	5.507	20.48	28.66	46.75	.57842

#1	.0098	.0431	.0006	-.0020	.0083	.02655
#2	.0177	.0399	.0008	-.0030	.0042	.02634

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5296.9	96203.	1360.5	1257.6
Stddev	19.7	27.	8.8	6.8
%RSD	.37180	.02780	.64868	.53885

#1	5310.9	96184.	1354.3	1262.3
#2	5283.0	96222.	1366.7	1252.8

Sample Name: ICSAB      Acquired: 11/11/2010 13:38:24      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-E

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.14	473.6	.9311	.0003	.4904	.46991	.0048	.9317
Stddev	.05	1.2	.0006	.0004	.0012	.00182	.0003	.0001
%RSD	.2810	.2479	.0631	104.4	.2432	.38772	6.521	.0086
#1	16.11	472.8	.9315	.0006	.4895	.46862	.0051	.9317
#2	16.17	474.4	.9306	.0001	.4912	.47120	.0046	.9316
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9227	465.4	*****	.4907	.4618	.5859	.4738	184.0
Stddev	.0095	1.8	----	.0027	.0033	.0006	.0044	.1
%RSD	1.032	.3873	----	.5511	.7224	.1089	.9339	.0460
#1	.9160	464.1	----	.4926	.4594	.5854	.4706	184.1
#2	.9294	466.7	----	.4888	.4641	.5863	.4769	184.0
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9567	486.3	200.7	305.3	.4655	.4808	-.0012	.9050
Stddev	.0029	4.9	1.7	3.2	.0024	.0049	.0000	.0100
%RSD	.2981	.9996	.8718	1.058	.5092	1.027	3.961	1.110
#1	.9547	482.8	199.4	307.5	.4671	.4843	-.0011	.8979
#2	.9587	489.7	201.9	303.0	.4638	.4773	-.0012	.9121
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Sample Name: ICSAB      Acquired: 11/11/2010 13:38:24      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B ICP8-16-E

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0386</b>	<b>-.0154</b>	<b>.9378</b>	<b>-.5989</b>	<b>.0027</b>	<b>.5027</b>	<b>.9393</b>	<b>.8838</b>
Stddev	.0014	.0009	.0038	.0319	.0004	.0025	.0045	.0023
%RSD	3.551	5.611	.4030	5.328	14.32	.4889	.4771	.2602
#1	.0377	-.0160	.9352	-.5764	.0029	.5044	.9361	.8821
#2	.0396	-.0148	.9405	-.6215	.0024	.5009	.9425	.8854

Check ?	None	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0147</b>	<b>.0268</b>	<b>.0006</b>	<b>.0032</b>	<b>.0111</b>	<b>.02676</b>
Stddev	.0000	.0014	.0001	.0005	.0028	.00045
%RSD	.0813	5.051	11.92	17.06	25.21	1.6749
#1	.0147	.0278	.0006	.0036	.0131	.02644
#2	.0147	.0259	.0005	.0028	.0091	.02708

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5189.0	95651.	1368.1	1240.4
Stddev	36.7	534.	12.0	1.3
%RSD	.70666	.55776	.87700	.10567
#1	5214.9	95274.	1376.6	1239.4
#2	5163.0	96028.	1359.6	1241.3

Sample Name: RB      Acquired: 11/11/2010 13:42:44      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464	.0467	.0009	.0017	F -.0007	.00005	F -.0015	.0001

#1	.0464	.0467	.0013	.0018	-.0003	.00007	-.0021	.0001
#2	.0464	.0466	.0005	.0016	-.0010	.00003	-.0009	.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0328	.0520	F .0001	-.0001	-.0003	.0003	.0202

#1	.0001	.0239	.0521	.0000	.0001	-.0003	.0007	.0211
#2	.0002	.0418	.0518	.0002	-.0003	-.0003	.0000	.0194

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0635	.0748	-.0001	-.0009	.0003	F -.1252	-.0025

#1	-.0001	.0631	.0763	-.0001	-.0010	.0006	-.1165	-.0027
#2	-.0005	.0638	.0733	-.0001	-.0008	.0001	-.1339	-.0023

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F -.0201	.0006	.0004	F .0003	F .0001	-.0089	-.0040

#1	.0000	-.0443	.0008	.0006	.0002	.0001	-.0108	.0042
#2	.0001	.0041	.0003	.0002	.0004	.0001	-.0069	-.0121

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0016	.0008	.00032

#1	.0001	.0021	-.0018	.00008
#2	.0001	.0012	.0035	.00056

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5971.7	109760.	1455.2	1455.5

#1	6004.9	109620.	1459.4	1463.7
#2	5938.5	109910.	1451.0	1447.2

Sample Name: K1010892-MB      Acquired: 11/11/2010 13:45:53      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0042	.0019	-.0016	.0002	-.0011	-.00002	-.0004	.0000
#1	.0042	.0001	-.0002	-.0004	-.0010	-.00002	-.0012	.0000
#2	.0042	.0037	-.0029	.0007	-.0012	-.00003	.0005	.0000
Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	F .0068	.0004	.0001	.0000	.0000	-.0010
#1	.0000	.0022	.0065	.0005	.0000	-.0001	-.0002	-.0020
#2	.0000	-.0014	.0071	.0002	.0002	.0000	.0001	.0001
Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	F .0041	F .0106	-.0001	-.0009	.0000	F -.1041	-.0011
#1	.0000	.0039	.0154	.0000	-.0008	-.0001	-.1623	-.0013
#2	-.0008	.0042	.0059	-.0001	-.0009	.0001	-.0459	-.0008
Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.1789	-.0001	.0002	.0003	.0002	F .1066	-.0131
#1	.0002	-.1677	-.0001	.0007	.0001	.0002	.1060	-.0085
#2	.0000	-.1901	-.0001	-.0002	.0004	.0002	.1072	-.0177
Elem	Ti3361	Ti1908	Li6707	Sr4077				
Units	ppm	ppm	ppm	ppm				
Avg	-.0001	-.0002	.0018	.00012				
#1	-.0001	-.0005	.0048	.00002				
#2	-.0002	.0001	-.0012	.00022				
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	5852.0	109020.	1448.8	1426.9				
#1	5883.4	109070.	1450.1	1433.0				
#2	5820.7	108970.	1447.5	1420.7				

*Review  
11/11/10*

Sample Name: LCSW      Acquired: 11/11/2010 13:48:33      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>4.706</b>	<b>2.363</b>	<b>2.424</b>	<b>4.616</b>	<b>.12012</b>	<b>.9489</b>	<b>1.160</b>	<b>1.170</b>

#1	4.695	2.354	2.414	4.651	.11953	.9445	1.155	1.164
#2	4.717	2.372	2.434	4.580	.12072	.9533	1.165	1.176

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>11.58</b>	<b>11.28</b>	<b>.4737</b>	<b>1.175</b>	<b>.5855</b>	<b>.6076</b>	<b>2.356</b>	<b>2.376</b>

#1	11.68	11.45	.4738	1.168	.5824	.6074	2.374	2.366
#2	11.48	11.12	.4735	1.181	.5885	.6079	2.337	2.385

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>11.53</b>	<b>1.162</b>	<b>.9420</b>	<b>1.168</b>	<b>11.63</b>	<b>2.291</b>	<b>.5950</b>	<b>12.67</b>

#1	11.51	1.162	.9362	1.161	11.56	2.282	.5937	12.59
#2	11.54	1.162	.9478	1.175	11.70	2.301	.5963	12.75

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0004</b>	<b>1.187</b>	<b>1.172</b>	<b>1.158</b>	<b>.1342</b>	<b>-.0028</b>	<b>-.0003</b>	<b>2.372</b>

#1	.0002	1.187	1.166	1.155	.1334	.0094	-.0003	2.360
#2	.0005	1.186	1.178	1.161	.1350	-.0151	-.0002	2.384

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	<b>.0012</b>	<b>.00060</b>

#1	.0013	.00064
#2	.0011	.00056

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>5844.5</b>	<b>107760.</b>	<b>1441.8</b>	<b>1426.3</b>

#1	5858.8	107550.	1426.3	1428.3
#2	5830.1	107980.	1457.3	1424.4

Sample Name: LCSW      Acquired: 11/11/2010 13:51:42      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	F .0006	-.0009	.0010	F .0006	.00000	F .0007	.0000

#1	.0016	.0005	-.0001	.0018	.0009	-.00003	.0003	.0000
#2	.0016	.0006	-.0016	.0002	.0003	.00003	.0011	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F .0027	.0051	F .0005	.0002	.0002	.0003	F -.0008

#1	.0002	.0122	.0056	.0005	.0000	.0003	.0008	-.0037
#2	.0001	-.0068	.0047	.0005	.0005	.0000	-.0002	.0022

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0021	F .0065	-.0001	-.0002	-.0003	F -.1312	-.0036

#1	-.0006	.0026	.0076	-.0001	-.0001	-.0003	-.1247	-.0028
#2	-.0013	.0015	.0053	.0000	-.0003	-.0004	-.1376	-.0043

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	F 16.77	.0002	.0005	F .0005	F .0005	.1306	9.949

#1	-.0007	16.78	-.0002	.0001	.0005	.0005	.1299	9.899
#2	-.0002	16.76	.0006	.0010	.0004	.0005	.1313	9.998

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0007	.0035	.00001

#1	.0001	.0015	.0059	-.00012
#2	.0000	-.0001	.0010	.00013

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.4	107450.	1418.5	1430.7

#1	5829.0	107470.	1407.1	1433.7
#2	5779.7	107440.	1429.9	1427.8

Sample Name: K1010892-001      Acquired: 11/11/2010 13:55:01      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	F .0014	-.0023	.0010	.0341	.00005	F .0039	.0000

#1	.0013	-.0001	-.0019	.0003	.0344	.00003	.0044	.0000
#2	.0013	.0029	-.0027	.0017	.0338	.00007	.0035	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.075	5.060	F .0008	.0036	.0027	.0007	3.341

#1	.0001	5.072	5.062	.0005	.0038	.0023	.0000	3.341
#2	.0000	5.078	5.058	.0010	.0035	.0030	.0013	3.341

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	2.391	2.386	.3536	-.0008	.0009	1.054	-.0014

#1	-.0006	2.393	2.383	.3525	-.0008	.0009	1.074	-.0018
#2	-.0014	2.389	2.390	.3548	-.0008	.0009	1.034	-.0011

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	7.161	.0002	.0006	.0118	.0117	.1565	4.466

#1	.0006	7.170	.0002	.0007	.0118	.0118	.1589	4.511
#2	.0001	7.151	.0003	.0006	.0118	.0117	.1541	4.421

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0001	.0014	-.0001	.03963

#1	-.0001	.0006	-.0013	.03941
#2	-.0001	.0021	.0011	.03986

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5806.1	107510.	1429.1	1433.1

#1	5820.6	107340.	1435.9	1440.5
#2	5791.5	107690.	1422.3	1425.6



Sample Name: K1010892-001D      Acquired: 11/11/2010 13:58:07      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	F -.0005	-.0033	.0025	.0334	-.00001	F .0031	.0000

#1	.0014	-.0015	-.0030	.0022	.0329	-.00002	.0042	.0000
#2	.0011	.0004	-.0036	.0028	.0339	-.00001	.0020	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.102	5.057	F .0007	.0034	.0029	.0009	3.352

#1	.0001	5.093	5.048	.0007	.0033	.0032	.0010	3.341
#2	.0001	5.112	5.066	.0007	.0035	.0025	.0009	3.363

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	2.393	2.420	.3525	-.0007	.0006	1.098	-.0015

#1	-.0013	2.386	2.430	.3516	-.0009	.0007	1.037	-.0023
#2	-.0011	2.400	2.409	.3534	-.0005	.0005	1.160	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	7.286	.0005	.0005	.0120	.0120	.1572	4.524

#1	-.0005	7.281	-.0001	.0005	.0120	.0119	.1590	4.530
#2	-.0002	7.291	.0010	.0006	.0119	.0120	.1555	4.519

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0007	.0070	.03965

#1	.0000	.0011	.0066	.03972
#2	-.0001	.0003	.0073	.03958

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5884.1	109870.	1443.2	1451.5

#1	5902.7	109890.	1449.8	1456.0
#2	5865.5	109860.	1436.6	1447.0

Sample Name: CCVA2      Acquired: 11/11/2010 14:01:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2456	.2378	.2492	.2577	.2394	.25284	.2504	.2449
Stddev	.0011	.0030	.0002	.0018	.0009	.00052	.0032	.0004
%RSD	.4319	1.268	.0887	.6888	.3754	.20397	1.290	.1618
#1	.2448	.2357	.2491	.2565	.2400	.25248	.2481	.2446
#2	.2463	.2400	.2494	.2590	.2387	.25321	.2527	.2452
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469	.2334	.2449	.2415	.2441	.2433	.2547	.2510
Stddev	.0012	.0075	.0006	.0005	.0018	.0005	.0002	.0065
%RSD	.4827	3.201	.2282	.1953	.7247	.1931	.0692	2.587
#1	.2460	.2386	.2445	.2412	.2429	.2436	.2546	.2556
#2	.2477	.2281	.2453	.2418	.2454	.2430	.2548	.2464
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2449	.1959	.2434	.2476	.2389	.2382	.2443	.2474
Stddev	.0002	.0799	.0004	.0039	.0000	.0002	.0016	.0011
%RSD	.0718	40.80	.1464	1.585	.0140	.0786	.6509	.4420
#1	.2448	.2524	.2431	.2504	.2390	.2384	.2432	.2466
#2	.2451	.1393	.2436	.2448	.2389	.2381	.2454	.2481
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA2      Acquired: 11/11/2010 14:01:11      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.251	.2457	.2477	.1492	.2429	.2402	.2480	.2497
Stddev	.098	.0004	.0014	.0500	.0008	.0004	.0003	.0015
%RSD	4.368	.1685	.5750	33.51	.3321	.1707	.1051	.5983
#1	2.181	.2460	.2467	.1138	.2423	.2399	.2482	.2486
#2	2.320	.2455	.2487	.1845	.2435	.2405	.2478	.2507

Check ?      None    Chk Pass    Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 Value  
 Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0082	.1247	.2433	.2431	.0015	.00016
Stddev	.0004	.0221	.0007	.0012	.0010	.00017
%RSD	5.098	17.71	.2676	.5004	68.52	106.27
#1	-.0079	.1091	.2429	.2440	.0007	.00029
#2	-.0085	.1404	.2438	.2423	.0022	.00004

Check ?      None      None    Chk Pass    Chk Pass      None      None  
 Value  
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5957.2	111250.	1453.3	1459.2
Stddev	1.0	451.	7.6	5.5
%RSD	.01637	.40507	.52621	.37453
#1	5957.9	110930.	1447.9	1455.3
#2	5956.6	111570.	1458.7	1463.0

Sample Name: CCVB2      Acquired: 11/11/2010 14:04:10      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.985	9.791	-0.0025	1.021	9.798	.00002	.0009	.0000
Stddev	.033	.003	.0013	.000	.007	.00005	.0004	.0000
%RSD	.4656	.0346	51.40	.0031	.0770	217.80	39.19	172.3
#1	6.962	9.794	-0.0034	1.021	9.803	.00006	.0012	.0000
#2	7.008	9.789	-0.0016	1.021	9.793	-0.00001	.0007	.0000
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.719	9.791	.0004	.0002	.0058	.0002	10.02
Stddev	.0000	.044	.139	.0000	.0003	.0003	.0007	.04
%RSD	19.54	.4535	1.424	.8248	105.7	5.684	280.4	.3944
#1	.0001	9.750	9.693	.0004	.0001	.0061	.0007	9.996
#2	.0001	9.688	9.890	.0004	.0004	.0056	-.0002	10.05
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	9.780	9.656	9.727	1.002	.9381	-.0006	-.0002
Stddev	.0009	.072	.004	.018	.002	.0034	.0001	.0002
%RSD	1541.	.7332	.0442	.1831	.2200	.3636	15.43	70.06
#1	.0006	9.729	9.653	9.715	1.004	.9405	-.0006	-.0003
#2	-.0007	9.830	9.659	9.740	1.001	.9357	-.0007	-.0001
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB2      Acquired: 11/11/2010 14:04:10      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.660	-0.0012	-0.0004	9.705	.0000	.0013	.0002	.0003
Stddev	.025	.0003	.0008	.020	.000	.0001	.0001	.0001
%RSD	.2554	23.09	221.8	.2074	391.7	10.75	77.56	17.38
#1	9.642	-0.0014	.0002	9.720	.0001	.0014	.0003	.0003
#2	9.677	-0.0010	-0.0009	9.691	-0.0002	.0012	.0001	.0003
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.23	10.23	.0004	.0022	.9445	.96534
Stddev	.01	.06	.0000	.0015	.0021	.00112
%RSD	.1438	.5868	5.669	68.42	.2205	.11640
#1	10.22	10.18	.0004	.0011	.9459	.96614
#2	10.24	10.27	.0004	.0032	.9430	.96455
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5823.5	107720.	1424.8	1426.3
Stddev	19.6	22.	1.7	.9
%RSD	.33708	.02037	.12246	.06487
#1	5837.4	107710.	1423.6	1426.9
#2	5809.6	107740.	1426.0	1425.6

Sample Name: CCB2      Acquired: 11/11/2010 14:08:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0015	-.0024	.0024	-.0003	.00004	.0002	.0000
Stddev	.0000	.0021	.0010	.0002	.0004	.00000	.0014	.000
%RSD	32.65	138.3	43.03	8.938	132.1	3.4775	882.7	1133.
#1	.0001	.0000	-.0031	.0025	-.0007	.00004	.0012	.0000
#2	.0002	.0030	-.0016	.0022	.0000	.00004	-.0008	.0000

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0041	.0007	.0001	.0001	-.0001	-.0009	.0083
Stddev	.0000	.0044	.0002	.0001	.0000	.0005	.0004	.0031
%RSD	37.48	109.3	25.40	142.0	4.996	634.1	46.38	36.57
#1	.0001	.0009	.0008	.0000	.0001	-.0004	-.0012	.0062
#2	.0001	.0072	.0005	.0001	.0001	.0003	-.0006	.0105

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0269	.0001	.0007	-.0001	-.0016	-.0007	.0002
Stddev	.0006	.0506	.0002	.0017	.0001	.0007	.0004	.0002
%RSD	119.3	187.8	255.0	254.5	67.81	45.73	57.84	84.28
#1	-.0001	.0088	.0002	.0019	-.0001	-.0011	-.0010	.0003
#2	-.0009	-.0627	-.0001	-.0005	.0000	-.0021	-.0004	.0001

Check ?      Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Sample Name: CCB2      Acquired: 11/11/2010 14:08:15      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0056	-0.0019	.0003	F -.2064	.0004	-0.0001	.0001	.0000
Stddev	.0161	.0011	.0000	.0613	.0003	.0005	.0000	.0000
%RSD	289.0	60.06	5.176	29.68	56.75	403.9	54.67	253.2

#1	-.0170	-.0027	.0004	-.2497	.0003	.0002	.0000	.0000
#2	.0058	-.0011	.0003	-.1631	.0006	-.0005	.0001	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.2000				
Low Limit				-.2000				

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	-0.0061	.0000	.0011	.0015	-0.00006
Stddev	.0002	.0184	.0002	.0001	.0009	.00014
%RSD	7.626	302.9	864.9	7.966	64.13	217.51

#1	-.0029	.0069	-.0001	.0011	.0008	-.00016
#2	-.0032	-.0191	.0002	.0012	.0021	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5873.2	108390.	1400.1	1431.5
Stddev	4.1	188.	2.0	4.2
%RSD	.07020	.17315	.14545	.29099

#1	5870.3	108520.	1398.7	1428.5
#2	5876.1	108260.	1401.6	1434.4

Sample Name: CRI      Acquired: 11/11/2010 14:13:28      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: ICAP RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0010	.0076	.0110	.0018	.00023	.0088
Stddev	.0001	.0004	.0006	.0002	.0005	.00000	.0003
%RSD	3.569	35.93	7.827	1.993	29.22	.15222	3.257

#1	.0019	.0013	.0072	.0112	.0022	.00023	.0090
#2	.0020	.0008	.0081	.0109	.0014	.00023	.0086

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0005	.0035	.0047	.0024	.0009	.0020
Stddev	.0000	.0001	.0121	.0001	.0001	.0002	.0005
%RSD	3.218	11.48	344.2	2.485	3.649	19.36	24.84

#1	.0004	.0006	.0121	.0046	.0024	.0008	.0016
#2	.0004	.0005	-.0051	.0048	.0023	.0010	.0023

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0132	.0090	-.0180	.0020	.0053	.0005
Stddev	.0000	.0076	.0001	.0230	.0002	.0039	.0000
%RSD	.0753	57.74	.6910	127.8	9.106	74.24	1.889

#1	.0021	.0078	.0089	-.0017	.0019	.0081	.0005
#2	.0021	.0186	.0090	-.0343	.0021	.0025	.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value							
Range							

*sample  
11/11/10*



Sample Name: CRI      Acquired: 11/11/2010 14:13:28      Type: QC

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: ICAP RERUN

Elem	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0013	.0019	F -.0260	.0187	.0018	F .0478
Stddev	.0032	.0000	.0001	.0069	.0004	.0003	.0390
%RSD	168.4	3.422	5.587	26.43	2.071	15.28	81.59
#1	-.0004	.0012	.0020	-.0308	.0185	.0016	.0754
#2	.0042	.0013	.0018	-.0211	.0190	.0020	.0202
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value				.1000			.2000
Range				-50.00%			-50.00%

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0023	.0019	.0019	.0106	.0637	.0009
Stddev	.0002	.0007	.0001	.0000	.0006	.0144	.0001
%RSD	1.738	30.94	5.538	1.294	5.752	22.61	14.62
#1	.0099	.0018	.0018	.0019	.0110	.0739	.0008
#2	.0097	.0028	.0020	.0019	.0101	.0535	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0107	.0148	F .00008
Stddev	.0002	.0009	.00001
%RSD	2.157	5.814	7.2242
#1	.0105	.0142	.00008
#2	.0108	.0154	.00008
Check ?	Chk Pass	Chk Pass	Chk Fail
Value			.00020
Range			-50.000%

*change ratio*

Sample Name: CRI    Acquired: 11/11/2010 14:13:28    Type: QC  
Method: 10C2007(v48)    Mode: CONC    Corr. Factor: 1.000000  
User: admin    :    :    :  
Comment: ICAP RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5877.7	107060.	1393.8	1432.8
Stddev	35.3	338.	8.7	5.8
%RSD	.60050	.31538	.62095	.40377
#1	5902.6	107300.	1400.0	1436.9
#2	5852.7	106820.	1387.7	1428.7

*average  
11/11/10*

Sample Name: SEM MB      Acquired: 11/11/2010 14:16:00      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: CHECK

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0000	-.0006	.0009	-.0005	.00002	-.0004	-.0001
#1	.0018	.0022	-.0022	.0009	-.0002	-.00005	.0000	.0000
#2	.0019	-.0022	.0010	.0008	-.0009	.00008	-.0007	-.0001
Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0069	.0085	.0006	.0001	.0005	.0006	.0101
#1	.0001	.0125	.0087	.0008	.0002	.0006	.0005	.0135
#2	.0001	.0014	.0082	.0003	.0000	.0003	.0007	.0067
Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0031	.0057	-.0001	-.0007	.0004	-.0286	-.0003
#1	-.0008	.0030	.0022	-.0001	-.0006	.0004	-.0815	-.0007
#2	.0014	.0033	.0092	-.0001	-.0007	.0004	.0243	.0001
Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.1413	.0003	.0003	.0034	.0035	-.0062	.0044
#1	.0002	-.1846	.0005	.0006	.0035	.0035	-.0065	-.0047
#2	-.0004	-.0980	.0001	-.0001	.0033	.0035	-.0059	.0135
Elem	Ti3361	Tl1908	Li6707	Sr4077				
Units	ppm	ppm	ppm	ppm				
Avg	.0000	.0008	.0022	.00015				
#1	.0001	.0006	.0017	.00035				
#2	-.0001	.0009	.0027	-.00004				
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	5964.1	108480.	1403.9	1453.5				
#1	5978.5	108640.	1393.5	1455.6				
#2	5949.6	108320.	1414.3	1451.5				

Sample Name: K1010892-MB      Acquired: 11/11/2010 14:18:39      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0007	-.0016	.0001	.0002	.00004	-.0019	.0000

#1	.0005	-.0001	-.0007	-.0006	.0002	.00004	-.0016	.0000
#2	.0006	-.0014	-.0026	.0008	.0001	.00004	-.0022	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0091	.0026	-.0001	.0000	-.0001	-.0005	.0051

#1	.0001	-.0059	.0029	-.0002	.0000	-.0003	-.0007	-.0002
#2	.0000	-.0124	.0022	.0001	-.0001	.0001	-.0002	.0103

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0003	.0027	-.0001	-.0009	.0002	F -.1107	-.0027

#1	-.0018	.0006	-.0009	-.0001	-.0010	.0003	-.0721	-.0036
#2	.0003	.0001	.0062	-.0001	-.0008	.0000	-.1492	-.0018

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.1327	.0005	.0002	.0001	.0002	F .1090	.0067

#1	.0000	-.1395	.0006	.0007	.0001	.0002	.1117	.0090
#2	-.0006	-.1260	.0003	-.0003	.0000	.0002	.1063	.0043

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0003	-.0007	.0018	.00009

#1	-.0002	-.0006	.0045	-.00014
#2	-.0004	-.0007	-.0010	.00032

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5923.2	109280.	1451.3	1442.1

#1	5944.3	109210.	1451.7	1450.9
#2	5902.0	109360.	1450.9	1433.3

Sample Name: K1010892-001S      Acquired: 11/11/2010 14:21:14      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.916	.4857	.9518	1.934	.04870	.9859	.0472	.0474

#1	1.911	.4858	.9522	1.934	.04884	.9851	.0471	.0472
#2	1.921	.4855	.9515	1.934	.04857	.9867	.0474	.0475

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 15.13	14.56	.1906	.4739	.2353	.2427	4.305	.4779

#1	15.11	14.55	.1907	.4724	.2345	.2415	4.314	.4771
#2	15.14	14.58	.1904	.4755	.2361	.2440	4.296	.4787

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 12.38	.8228	.9733	.4693	F 11.04	.8939	.0490	F 18.26

#1	12.36	.8224	.9704	.4676	10.98	.8938	.0488	18.21
#2	12.40	.8233	.9761	.4709	11.11	.8939	.0492	18.31

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.4841	.4912	.4864	.1652	4.504	.0001	.8809

#1	.0005	.4839	.4894	.4857	.1629	4.502	.0001	.8784
#2	.0007	.4843	.4929	.4871	.1675	4.507	.0001	.8833

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0050	.04007

#1	.0030	.03986
#2	.0070	.04029

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5843.5	107580.	1427.4	1421.0

#1	5863.8	107480.	1424.1	1426.4
#2	5823.1	107690.	1430.7	1415.5

Sample Name: K1010892-001S      Acquired: 11/11/2010 14:24:23      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	F .0022	.0004	.0020	.0332	-.00005	F .0047	.0001

#1	.0016	-.0003	.0012	.0006	.0334	-.00004	.0042	.0000
#2	.0020	.0046	-.0004	.0035	.0329	-.00005	.0052	.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	5.060	5.040	F .0005	.0036	.0022	.0008	3.349

#1	.0001	5.044	5.060	.0007	.0034	.0021	.0009	3.379
#2	.0002	5.077	5.019	.0004	.0037	.0024	.0007	3.319

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	2.385	2.435	.3514	-.0002	.0005	.9874	-.0005

#1	-.0010	2.392	2.435	.3518	-.0001	.0005	1.016	.0011
#2	-.0015	2.378	2.434	.3509	-.0003	.0004	.9585	-.0022

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	F 23.65	.0004	.0004	.0123	.0123	.1597	14.60

#1	.0003	23.52	.0008	.0003	.0122	.0123	.1617	14.59
#2	.0005	23.77	.0000	.0004	.0124	.0122	.1578	14.61

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0061	.03954

#1	.0000	.0007	.0015	.03968
#2	.0001	-.0005	.0106	.03941

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5859.1	108020.	1436.4	1449.2

#1	5863.0	107630.	1437.3	1449.4
#2	5855.1	108400.	1435.6	1448.9

Sample Name: K1010892-002      Acquired: 11/11/2010 14:27:34      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	F .0066	.0025	-.0006	.0300	-.00008	F .0033	.0000

#1	.0033	.0087	.0012	-.0006	.0300	-.00007	.0028	-.0001
#2	.0035	.0044	.0037	-.0007	.0300	-.00009	.0038	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.545	5.500	F .0006	.0008	.0139	.0005	F 20.44

#1	.0001	5.540	5.497	.0006	.0009	.0137	.0002	20.40
#2	.0001	5.550	5.503	.0006	.0007	.0141	.0007	20.48

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.297	2.336	.1279	-.0006	-.0001	.9354	-.0032

#1	-.0011	2.298	2.339	.1277	-.0005	.0000	.8534	-.0029
#2	.0006	2.296	2.334	.1281	-.0007	-.0003	1.017	-.0034

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	7.250	-.0001	.0001	.0115	.0117	.3404	7.332

#1	-.0005	7.235	.0000	.0001	.0115	.0116	.3384	7.388
#2	.0002	7.264	-.0002	.0001	.0116	.0117	.3425	7.276

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0007	.0009	.0049	.05805

#1	.0007	.0001	.0027	.05807
#2	.0008	.0016	.0071	.05803

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5868.9	109190.	1441.6	1446.3

#1	5892.2	109550.	1442.9	1451.3
#2	5845.5	108840.	1440.2	1441.2

Sample Name: K1010892-003      Acquired: 11/11/2010 14:30:49      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	F .0038	.0001	.0005	.0172	-.00003	F .0041	.0000

#1	.0048	.0014	-.0007	.0003	.0171	-.00002	.0051	.0000
#2	.0049	.0063	.0008	.0008	.0172	-.00004	.0031	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.915	1.882	F .0001	.0014	.0012	.0001	.6198

#1	.0001	1.933	1.880	-.0002	.0015	.0008	.0004	.6276
#2	.0001	1.897	1.883	.0005	.0013	.0016	-.0001	.6120

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.8845	.8682	.1713	-.0006	.0004	.5664	-.0025

#1	-.0011	.8846	.8651	.1709	-.0005	.0006	.6054	-.0021
#2	-.0014	.8845	.8713	.1718	-.0006	.0003	.5274	-.0029

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	4.323	.0009	.0003	.0104	.0103	.1581	7.526

#1	.0000	4.348	.0006	.0005	.0104	.0103	.1550	7.452
#2	-.0002	4.298	.0011	.0002	.0105	.0103	.1612	7.601

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0058	.01758

#1	.0002	.0006	.0099	.01767
#2	.0002	-.0001	.0016	.01749

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5824.2	107670.	1399.0	1448.0

#1	5827.5	107520.	1393.8	1449.0
#2	5820.9	107810.	1404.1	1446.9



Sample Name: K1010892-004      Acquired: 11/11/2010 14:33:55      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0941	.0946	.0001	.0037	.0691	.00001	F .0039	.0000

#1	.0940	.0950	.0001	.0025	.0684	-.00002	.0032	.0000
#2	.0941	.0942	.0000	.0049	.0698	.00005	.0046	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 20.44	F .0005	.0012	.0084	.0006	F 11.75	-.0021

#1	.0001	20.26	.0007	.0012	.0082	.0007	11.63	-.0019
#2	.0001	20.62	.0002	.0011	.0087	.0005	11.86	-.0024

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 10.67	.7902	-.0005	-.0001	1.747	-.0031	-.0001	F 15.34

#1	10.71	.7861	-.0005	-.0003	1.761	-.0017	-.0003	15.36
#2	10.63	.7943	-.0006	.0000	1.733	-.0044	.0000	15.33

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0022	F .0043	F .0043	.1330	20.83	.0071	.0000

#1	.0003	.0018	.0043	.0044	.1321	20.98	.0072	-.0006
#2	.0002	.0026	.0042	.0043	.1340	20.67	.0069	.0006

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0100	.10724

#1	.0117	.10616
#2	.0084	.10833

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5765.0	106630.	1402.9	1413.1

#1	5769.6	106550.	1421.6	1412.4
#2	5760.5	106710.	1384.1	1413.8

Sample Name: K1010892-005      Acquired: 11/11/2010 14:37:16      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	F .0023	-.0028	.0002	.0041	.00001	F .0042	.0000

#1	.0017	.0026	-.0035	.0004	.0036	.00001	.0037	-.0001
#2	.0016	.0020	-.0021	-.0001	.0045	.00000	.0047	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 12.81	12.47	F .0004	.0001	.0140	.0160	.0278

#1	.0001	12.77	12.42	.0003	.0001	.0140	.0160	.0236
#2	.0000	12.86	12.51	.0005	.0001	.0140	.0161	.0321

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	5.142	5.115	.0003	-.0007	-.0008	2.255	-.0010

#1	-.0020	5.127	5.100	.0003	-.0005	-.0009	2.272	-.0018
#2	-.0019	5.157	5.130	.0003	-.0009	-.0008	2.239	-.0001

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 11.11	.0006	.0259	.0423	.0420	.3168	31.95

#1	-.0004	11.10	.0006	.0262	.0421	.0420	.3184	31.92
#2	.0004	11.11	.0005	.0256	.0425	.0420	.3153	31.98

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0045	.05534

#1	-.0004	-.0001	.0044	.05502
#2	-.0002	.0004	.0046	.05566

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5837.8	107660.	1409.2	1439.2

#1	5861.5	107900.	1413.9	1443.1
#2	5814.1	107420.	1404.5	1435.3

Sample Name: 0.2 ppm K      Acquired: 11/11/2010 14:40:33      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 0.002/10 MET1-83-D

*LL K MRL = 0.2 ppm*

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	F -.0021	-.0011	.0014	F -.0003	.00004	F -.0007	-.0001

#1	.0006	-.0025	-.0008	.0020	-.0003	.00011	-.0007	.0000
#2	.0007	-.0018	-.0014	.0009	-.0003	-.00003	-.0007	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F -.0150	.0015	F -.0001	-.0001	.0002	.0009	F .0063

#1	.0001	-.0039	.0015	-.0004	.0000	.0003	.0008	.0116
#2	.0000	-.0260	.0016	.0002	-.0001	.0002	.0010	.0009

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	F .0006	-.0001	-.0007	.0001	F .1296	-.0011

#1	-.0001	.0005	.0028	.0000	-.0008	.0002	.1410	-.0021
#2	.0008	.0003	-.0017	-.0001	-.0006	.0000	.1182	-.0002

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	F -.2070	.0003	.0001	F .0001	F .0000	-.0023	.0031

#1	.0005	-.1828	-.0003	-.0004	.0002	.0000	.0005	.0085
#2	.0005	-.2312	.0009	.0005	.0000	.0000	-.0051	-.0023

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	-.0002	-.0004	-.00007

#1	.0001	-.0005	-.0011	-.00021
#2	-.0001	.0001	.0003	.00007

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5865.9	108370.	1384.2	1433.1

#1	5867.8	108300.	1389.4	1438.0
#2	5864.0	108430.	1379.1	1428.2

Sample Name: CCVA3      Acquired: 11/11/2010 14:43:03      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595	.2376	.2479	.2584	.2492	.25145	.2492	.2578
Stddev	.0002	.0043	.0016	.0005	.0021	.00080	.0020	.0009
%RSD	.0726	1.821	.6258	.1918	.8358	.31920	.8196	.3410
#1	.2594	.2345	.2490	.2580	.2507	.25088	.2507	.2585
#2	.2596	.2406	.2468	.2587	.2477	.25202	.2478	.2572
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2602	.2580	.2585	.2543	.2578	.2552	.2516	.2615
Stddev	.0005	.0130	.0017	.0008	.0003	.0013	.0004	.0069
%RSD	.1832	5.023	.6673	.3115	.1200	.5034	.1500	2.622
#1	.2599	.2488	.2598	.2548	.2580	.2561	.2519	.2663
#2	.2606	.2672	.2573	.2537	.2575	.2543	.2514	.2566
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601	.2528	.2555	.2434	.2519	.2446	.2567	.2609
Stddev	.0008	.0282	.0013	.0017	.0010	.0013	.0000	.0002
%RSD	.3218	11.15	.4949	.6976	.4032	.5463	.0038	.0750
#1	.2607	.2329	.2564	.2422	.2512	.2456	.2567	.2608
#2	.2596	.2728	.2546	.2446	.2527	.2437	.2567	.2611
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA3      Acquired: 11/11/2010 14:43:03      Type: QC  
Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      :      :      :  
Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.226	.2468	.2458	.1494	.2549	.2535	.2615	.2502
Stddev	.042	.0007	.0013	.0070	.0015	.0005	.0010	.0008
%RSD	1.881	.2912	.5446	4.678	.5708	.1956	.3979	.3180
#1	2.256	.2473	.2468	.1543	.2559	.2531	.2622	.2507
#2	2.196	.2463	.2449	.1444	.2538	.2538	.2608	.2496

Check ?      None   Chk Pass   Chk Pass      None   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
Value  
Range

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0108	.1535	.2550	.2550	.0014	.00009
Stddev	.0023	.0029	.0002	.0035	.0008	.00008
%RSD	21.17	1.864	.0936	1.391	62.20	83.422
#1	-.0125	.1515	.2551	.2575	.0020	.00014
#2	-.0092	.1555	.2548	.2525	.0008	.00004

Check ?      None      None   Chk Pass   Chk Pass      None      None  
Value  
Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5672.6	105390.	1346.6	1393.8
Stddev	10.7	3.	11.9	3.1
%RSD	.18798	.00304	.88534	.22551
#1	5680.2	105390.	1338.2	1391.6
#2	5665.1	105390.	1355.0	1396.0

Sample Name: CCVB3      Acquired: 11/11/2010 14:46:00      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>6.965</b>	<b>9.627</b>	<b>-0.0015</b>	<b>.9896</b>	<b>9.638</b>	<b>.00003</b>	<b>.0003</b>	<b>.0000</b>
Stddev	.021	.016	.0006	.0044	.012	.00002	.0011	.0000
%RSD	.2972	.1621	41.81	.4457	.1195	69.277	355.9	64.05
#1	6.951	9.616	-0.0019	.9927	9.629	.00002	.0011	.0000
#2	6.980	9.638	-0.0011	.9865	9.646	.00005	-0.0005	.0000
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0001</b>	<b>9.651</b>	<b>9.406</b>	<b>.0001</b>	<b>.0003</b>	<b>.0065</b>	<b>-.0013</b>	<b>9.784</b>
Stddev	.0001	.024	.040	.0000	.0002	.0002	.0000	.011
%RSD	60.74	.2497	.4210	17.34	48.12	3.305	3.946	.1122
#1	.0001	9.634	9.434	.0001	.0002	.0067	-.0012	9.791
#2	.0002	9.668	9.378	.0001	.0005	.0064	-.0013	9.776
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>-.0011</b>	<b>9.909</b>	<b>9.592</b>	<b>9.656</b>	<b>.9691</b>	<b>.9463</b>	<b>-.0005</b>	<b>-.0002</b>
Stddev	.0010	.050	.003	.028	.0048	.0013	.0004	.0000
%RSD	86.21	.5021	.0302	.2930	.4986	.1342	71.50	16.57
#1	-.0004	9.944	9.594	9.636	.9657	.9454	-.0003	-.0002
#2	-.0018	9.874	9.590	9.676	.9725	.9472	-.0008	-.0002
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB3      Acquired: 11/11/2010 14:46:00      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.229	-.0031	.0003	9.883	.0002	.0019	.0002	.0003
Stddev	.020	.0014	.0004	.045	.0006	.0003	.0002	.0001
%RSD	.2189	44.55	156.5	.4550	425.6	13.69	72.09	23.83
#1	9.215	-.0021	.0000	9.914	-.0003	.0020	.0001	.0002
#2	9.244	-.0041	.0006	9.851	.0006	.0017	.0003	.0003
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.972	9.808	.0002	.0019	.9341	.96163
Stddev	.040	.023	.0001	.0001	.0012	.00077
%RSD	.4043	.2357	46.95	5.986	.1328	.08031
#1	10.00	9.791	.0001	.0020	.9350	.96218
#2	9.944	9.824	.0003	.0018	.9332	.96109
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5802.9	106010.	1401.9	1421.1
Stddev	6.9	256.	1.6	5.7
%RSD	.11821	.24176	.11727	.39861
#1	5807.7	105830.	1400.7	1425.1
#2	5798.0	106190.	1403.0	1417.1

Sample Name: CCB3      Acquired: 11/11/2010 14:50:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0009	-.0006	.0014	.0001	-.00002	-.0021	.0000
Stddev	.0002	.0032	.0023	.0008	.0003	.00002	.0001	.000
%RSD	71.17	343.7	409.9	55.16	246.8	126.71	4.471	340.5
#1	.0001	-.0032	.0011	.0008	-.0001	.00000	-.0020	.0000
#2	.0004	.0013	-.0022	.0019	.0003	-.00003	-.0021	-.0001

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0034	.0008	.0004	.0000	.0001	-.0007	-.0014
Stddev	.0000	.0042	.0003	.0002	.0001	.0003	.0006	.0002
%RSD	.4303	121.0	36.83	55.11	1408.	292.1	81.25	14.68
#1	.0001	.0005	.0006	.0002	-.0001	.0003	-.0003	-.0016
#2	.0001	.0064	.0009	.0005	.0001	-.0001	-.0012	-.0013

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0078	.0000	.0029	-.0001	-.0005	-.0006	.0002
Stddev	.0003	.0379	.0002	.0060	.0001	.0003	.0002	.0001
%RSD	115.8	483.9	2468.	210.1	88.21	51.47	30.03	70.37
#1	-.0005	-.0190	-.0001	-.0014	.0000	-.0003	-.0007	.0002
#2	.0000	.0347	.0002	.0071	-.0001	-.0007	-.0004	.0001

Check ?      Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit



Sample Name: CCB3      Acquired: 11/11/2010 14:50:07      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110b

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.1248	-.0027	.0005	-.0739	.0009	.0000	.0000	.0000
Stddev	.1107	.0004	.0002	.0052	.0000	.0007	.0001	.000
%RSD	88.65	15.19	45.71	7.032	4.026	1443.	600.9	511.6

#1	-.2031	-.0029	.0006	-.0702	.0009	-.0004	-.0001	.0000
#2	-.0466	-.0024	.0003	-.0776	.0009	.0005	.0001	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.1000							
Low Limit	-.1000							

Elem	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0048	.0177	.0000	.0004	.0078	-.00005
Stddev	.0020	.0228	.000	.0002	.0025	.00022
%RSD	41.14	128.4	463.7	42.02	32.17	444.54

#1	-.0034	.0016	.0001	.0003	.0096	-.00020
#2	-.0063	.0338	-.0002	.0006	.0060	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5863.4	106090.	1369.6	1424.1
Stddev	1.1	11.	16.5	1.3
%RSD	.01851	.01060	1.2047	.08902

#1	5864.1	106080.	1381.3	1425.0
#2	5862.6	106100.	1357.9	1423.2

Sample Name: K1010892-006      Acquired: 11/11/2010 14:52:46      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	F .0067	-.0007	.0011	.0099	-.00001	.0855	-.0001

#1	.0052	.0042	-.0011	.0006	.0095	-.00002	.0844	.0000
#2	.0054	.0092	-.0003	.0017	.0103	.00000	.0866	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F 11.79	11.47	F .0002	.0003	.0035	.0030	1.044

#1	.0001	11.85	11.51	.0003	.0004	.0037	.0031	1.048
#2	.0002	11.74	11.43	.0001	.0002	.0032	.0028	1.040

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	1.597	1.573	.0299	-.0003	-.0004	6.030	-.0025

#1	-.0006	1.601	1.575	.0300	-.0002	-.0002	5.983	-.0027
#2	.0000	1.593	1.571	.0297	-.0004	-.0006	6.078	-.0022

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	F 100.6	.0004	.0035	.3106	.3025	.1693	19.27

#1	.0001	101.2	.0003	.0037	.3096	.3024	.1662	19.10
#2	.0005	100.0	.0006	.0032	.3116	.3026	.1723	19.44

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0009	-.0008	.0216	.02955

#1	.0008	-.0016	.0190	.02931
#2	.0010	.0000	.0241	.02979

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5809.9	105920.	1380.1	1401.3

#1	5833.7	105350.	1371.9	1404.3
#2	5786.0	106490.	1388.2	1398.4

Sample Name: K1010892-007      Acquired: 11/11/2010 14:56:07      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	F .0016	-.0011	.0027	F .0019	-.00002	F .0027	-.0001

#1	.0016	-.0025	-.0017	.0026	.0019	.00003	.0022	-.0001
#2	.0014	.0058	-.0004	.0028	.0019	-.00007	.0033	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 12.02	11.63	F .0007	.0006	.0005	.0014	.0613

#1	.0001	11.99	11.60	.0006	.0003	.0006	.0017	.0650
#2	.0001	12.04	11.67	.0008	.0008	.0003	.0011	.0576

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	5.378	5.514	.0003	-.0007	-.0010	2.295	.0004

#1	-.0007	5.375	5.513	.0003	-.0008	-.0010	2.292	.0004
#2	-.0020	5.382	5.514	.0003	-.0007	-.0011	2.298	.0004

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	7.746	.0004	.0240	F .0035	F .0035	.3168	29.67

#1	.0004	7.713	.0003	.0240	.0035	.0034	.3206	29.65
#2	.0003	7.778	.0006	.0239	.0035	.0036	.3131	29.69

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	-.0002	.0005	.0075	.05515

#1	-.0002	.0012	.0072	.05513
#2	-.0001	-.0002	.0078	.05516

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5911.3	108420.	1434.5	1462.2

#1	5933.0	108290.	1437.5	1468.8
#2	5889.5	108540.	1431.6	1455.6

Sample Name: K1010892-008      Acquired: 11/11/2010 14:59:23      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203	.0217	-.0021	.0028	.1471	.00003	F .0397	.0000

#1	.0202	.0205	-.0029	.0015	.1470	.00002	.0403	.0000
#2	.0204	.0228	-.0013	.0040	.1471	.00005	.0391	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 93.87	.0090	.0128	.0141	.0132	.4541	-.0018

#1	.0000	93.73	.0089	.0127	.0136	.0130	.4568	-.0010
#2	.0001	94.02	.0091	.0128	.0145	.0134	.4514	-.0026

Elem	Mg2790	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	104.9	.6553	.0009	.0100	F 27.63	-.0023	.0001	F 338.4

#1	104.6	.6561	.0007	.0098	27.59	-.0022	.0003	340.6
#2	105.1	.6545	.0010	.0103	27.67	-.0025	.0000	336.1

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0065	.0146	.0133	.2071	18.16	.0039	.0010

#1	.0006	.0063	.0146	.0133	.2053	18.06	.0038	-.0002
#2	.0003	.0067	.0147	.0134	.2089	18.25	.0039	.0022

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0110	.45625

#1	.0102	.45585
#2	.0119	.45664

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5472.0	101570.	1388.2	1280.4

#1	5497.5	101650.	1383.3	1288.0
#2	5446.4	101490.	1393.1	1272.8

Sample Name: K1010892-009      Acquired: 11/11/2010 15:02:49      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B DISS

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.0227	-.0040	.0034	.1467	.00003	F .0402	.0000

#1	.0222	.0176	-.0032	.0042	.1476	-.00001	.0404	.0000
#2	.0221	.0278	-.0047	.0027	.1459	.00008	.0399	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 93.45	.0086	.0096	.0098	.0104	.3550	-.0009

#1	.0000	93.71	.0086	.0097	.0100	.0106	.3540	-.0020
#2	.0001	93.20	.0086	.0095	.0097	.0103	.3559	.0003

Elem	Mg2790	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	104.4	.6497	.0008	.0097	F 27.83	-.0019	.0003	F 321.1

#1	104.8	.6487	.0006	.0098	27.78	-.0014	-.0001	321.5
#2	104.1	.6508	.0010	.0097	27.87	-.0024	.0008	320.7

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0055	.0114	.0105	.1816	18.20	.0037	.0014

#1	-.0002	.0056	.0114	.0106	.1838	18.22	.0037	.0001
#2	.0004	.0054	.0114	.0105	.1795	18.19	.0037	.0026

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0081	.45480

#1	.0079	.45638
#2	.0083	.45323

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5525.7	102590.	1406.6	1295.1

#1	5541.8	102610.	1407.7	1298.1
#2	5509.6	102570.	1405.6	1292.2

Sample Name: K1012657-002      Acquired: 11/11/2010 15:06:55      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F -.0006	-.0025	.0026	F .0019	.00002	F .0131	.0000

#1	.0014	-.0003	-.0020	.0034	.0010	.00004	.0126	.0000
#2	.0010	-.0009	-.0030	.0018	.0028	.00000	.0135	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	2.897	2.846	F -.0001	.0000	.0001	-.0002	F .0077

#1	.0000	2.878	2.851	-.0003	-.0001	.0000	-.0005	.0063
#2	.0001	2.917	2.841	.0002	.0001	.0001	.0001	.0091

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.447	2.460	.0165	-.0007	.0001	1.463	-.0015

#1	-.0005	2.449	2.463	.0166	-.0008	-.0001	1.431	-.0010
#2	.0001	2.445	2.458	.0164	-.0007	.0003	1.495	-.0019

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	F 17.92	.0005	.0003	F .0000	F .0000	.0226	.5600

#1	.0000	17.84	.0000	.0002	.0000	.0000	.0214	.5609
#2	-.0008	18.01	.0009	.0004	.0000	.0001	.0238	.5590

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0013	.0016	.02313

#1	.0002	.0011	-.0005	.02292
#2	.0000	.0015	.0036	.02334

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5934.4	108880.	1426.6	1477.5

#1	5940.9	108690.	1425.6	1478.8
#2	5927.9	109060.	1427.6	1476.3

Sample Name: K1012657-003      Acquired: 11/11/2010 15:10:13      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	F .0021	-.0014	.0021	F .0005	.00003	F .0014	.0000

#1	.0008	.0040	-.0015	.0024	.0008	.00004	.0016	.0000
#2	.0007	.0001	-.0013	.0018	.0003	.00001	.0012	-.0001

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.2565	.2640	F .0004	-.0003	.0000	.0000	F .0110

#1	.0000	.2619	.2633	-.0001	-.0001	.0001	.0003	.0151
#2	.0001	.2510	.2648	.0008	-.0005	.0000	-.0002	.0069

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.2106	.2029	.0022	-.0007	.0000	.2626	-.0009

#1	-.0011	.2105	.2066	.0022	-.0007	.0001	.3184	-.0012
#2	-.0005	.2107	.1993	.0022	-.0007	-.0001	.2067	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	2.083	-.0001	.0003	F .0001	F .0001	-.0023	.5310

#1	-.0002	2.116	-.0005	.0000	.0000	.0001	-.0045	.5403
#2	-.0001	2.051	.0002	.0005	.0001	.0001	-.0001	.5217

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0010	.0080	.00204

#1	-.0001	.0020	.0083	.00233
#2	.0001	.0000	.0078	.00175

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5892.1	105850.	1364.4	1457.7

#1	5738.9	106010.	1359.4	1423.0
#2	6045.4	105690.	1369.4	1492.4

Sample Name: K1012657-004      Acquired: 11/11/2010 15:13:19      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 1/20 SCREEN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	F .0007	-.0021	.0029	F .0001	.00005	F -.0012	.0000

#1	.0008	-.0001	-.0016	.0019	.0010	.00006	-.0008	-.0001
#2	.0009	.0015	-.0025	.0039	-.0008	.00005	-.0017	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1745	.1841	F .0004	.0001	.0005	.0003	F .0007

#1	.0000	.1562	.1838	.0004	.0001	.0006	-.0005	.0016
#2	.0001	.1927	.1843	.0005	.0002	.0004	.0011	-.0003

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0154	F .0196	.0000	-.0006	.0005	F -.0231	-.0020

#1	-.0018	.0155	.0232	.0000	-.0005	.0002	-.0565	-.0022
#2	-.0014	.0153	.0160	.0000	-.0006	.0007	.0104	-.0018

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F .1790	.0002	-.0002	F .0051	F .0052	-.0016	.0305

#1	-.0007	.1969	.0000	-.0001	.0050	.0052	-.0023	.0399
#2	.0010	.1610	.0003	-.0004	.0053	.0053	-.0009	.0212

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0005	.0015	.00073

#1	.0000	.0008	.0052	.00063
#2	.0002	.0002	-.0021	.00084

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.0	108820.	1394.0	1439.5

#1	5939.9	108830.	1389.0	1446.4
#2	5900.1	108800.	1399.1	1432.6



Sample Name: K1010795-MB      Acquired: 11/11/2010 15:16:26      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0044	-.0012	.0009	-.0007	-.00009	-.0007	.0000

#1	.0005	-.0040	-.0008	-.0005	-.0013	-.00007	-.0003	-.0001
#2	.0006	-.0047	-.0016	.0023	-.0002	-.00011	-.0012	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0182	.0027	.0001	-.0003	.0003	-.0003	.0062

#1	.0001	-.0169	.0025	-.0001	-.0003	.0003	-.0005	.0094
#2	.0001	-.0195	.0030	.0003	-.0003	.0003	-.0001	.0030

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0001	.0004	-.0001	-.0010	-.0001	-.0248	-.0017

#1	-.0008	-.0002	.0005	-.0001	-.0010	-.0003	-.0192	-.0016
#2	-.0009	.0000	.0003	-.0001	-.0011	.0000	-.0303	-.0019

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0698	-.0001	-.0001	.0009	.0010	F .0863	.0054

#1	.0001	.0424	.0001	-.0006	.0009	.0010	.0838	-.0084
#2	-.0002	.0972	-.0003	.0003	.0009	.0010	.0887	.0191

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	-.0014	.0037	-.00004

#1	-.0001	-.0020	.0033	-.00004
#2	.0001	-.0007	.0042	-.00005

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.6	108580.	1384.8	1435.7

#1	5936.1	108800.	1396.8	1440.3
#2	5905.1	108350.	1372.8	1431.1

Sample Name: LCSW      Acquired: 11/11/2010 15:19:06      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.906	2.476	2.535	4.892	.12573	.9957	1.249	1.245

#1	4.896	2.474	2.532	4.863	.12527	.9913	1.242	1.237
#2	4.915	2.477	2.537	4.921	.12620	1.0000	1.257	1.254

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.42	12.26	.5134	1.271	.6337	.6330	2.574	2.544

#1	12.39	12.30	.5135	1.264	.6291	.6312	2.550	2.530
#2	12.45	12.21	.5133	1.278	.6384	.6348	2.598	2.558

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.13	1.269	1.028	1.252	11.85	2.374	.6127	11.81

#1	12.09	1.269	1.022	1.245	11.78	2.375	.6109	11.82
#2	12.18	1.268	1.034	1.259	11.92	2.373	.6146	11.79

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	1.298	1.250	1.213	.1081	-.0067	.0000	2.561

#1	.0003	1.299	1.241	1.213	.1073	-.0137	.0002	2.544
#2	.0006	1.296	1.258	1.214	.1088	.0004	-.0002	2.577

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0022	9.7444

#1	.0016	9.7118
#2	.0029	9.7770

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5676.2	103930.	1375.5	1378.4

#1	5706.1	103610.	1375.6	1385.8
#2	5646.4	104250.	1375.3	1371.0

Sample Name: LCSW      Acquired: 11/11/2010 15:22:16      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B Si

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	F .0019	-.0012	.0017	F -.0003	.00003	F .0025	.0000

#1	.0009	.0025	-.0016	.0014	-.0007	.00001	.0024	.0000
#2	.0007	.0013	-.0008	.0019	.0001	.00005	.0027	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F -.0113	.0035	F .0002	.0001	.0002	.0004	F .0021

#1	.0001	-.0016	.0033	-.0002	.0001	.0003	.0009	-.0059
#2	.0001	-.0210	.0037	.0005	.0002	.0001	.0000	.0101

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0006	F .0032	-.0001	-.0002	-.0003	F -.0939	-.0004

#1	-.0009	.0006	.0035	-.0001	-.0001	-.0002	-.0507	.0006
#2	-.0010	.0006	.0029	-.0001	-.0002	-.0005	-.1371	-.0014

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F 14.87	.0003	.0007	F .0006	F .0005	.1325	9.562

#1	-.0002	14.84	-.0002	.0008	.0006	.0005	.1348	9.566
#2	.0000	14.90	.0008	.0005	.0006	.0005	.1303	9.557

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0015	.0028	.00010

#1	.0002	.0016	.0051	.00007
#2	.0000	.0014	.0004	.00014

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5801.1	105540.	1372.3	1422.8

#1	5812.2	105350.	1371.7	1427.0
#2	5790.1	105730.	1372.9	1418.5

Sample Name: CCVA4      Acquired: 11/11/2010 15:25:37      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469	.2406	.2518	.2592	.2410	.25130	.2492	.2469
Stddev	.0011	.0013	.0019	.0009	.0013	.00072	.0026	.0016
%RSD	.4625	.5426	.7691	.3556	.5373	.28761	1.037	.6411
#1	.2461	.2415	.2531	.2585	.2401	.25078	.2510	.2457
#2	.2477	.2396	.2504	.2598	.2420	.25181	.2473	.2480
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2474	.2418	.2508	.2457	.2460	.2454	.2520	.2475
Stddev	.0012	.0007	.0006	.0010	.0012	.0013	.0002	.0083
%RSD	.4766	.2784	.2414	.3946	.4788	.5200	.0766	3.358
#1	.2466	.2422	.2504	.2450	.2451	.2445	.2522	.2534
#2	.2482	.2413	.2513	.2464	.2468	.2463	.2519	.2416
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2470	.2269	.2504	.2554	.2433	.2361	.2454	.2480
Stddev	.0025	.0178	.0004	.0020	.0001	.0005	.0011	.0014
%RSD	1.020	7.852	.1633	.7694	.0259	.2171	.4540	.5566
#1	.2452	.2395	.2501	.2540	.2434	.2365	.2447	.2470
#2	.2488	.2143	.2507	.2568	.2433	.2358	.2462	.2490
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVA4      Acquired: 11/11/2010 15:25:37      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.213	.2474	.2509	.2696	.2451	.2451	.2480	.2506
Stddev	.003	.0001	.0004	.0693	.0031	.0004	.0015	.0000
%RSD	.1163	.0547	.1658	25.70	1.269	.1476	.5925	.0045
#1	2.215	.2475	.2512	.2206	.2429	.2448	.2470	.2506
#2	2.212	.2473	.2506	.3186	.2473	.2454	.2491	.2506

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	.1288	.2457	.2468	.0037	-.00006
Stddev	.0005	.0279	.0004	.0007	.0004	.00014
%RSD	5.955	21.69	.1634	.2949	11.13	249.48
#1	-.0080	.1486	.2460	.2463	.0039	-.00015
#2	-.0074	.1091	.2454	.2473	.0034	.00004

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5954.3	109190.	1402.5	1455.4
Stddev	18.3	353.	.7	7.3
%RSD	.30695	.32335	.04739	.50148
#1	5967.2	108940.	1403.0	1460.5
#2	5941.3	109440.	1402.1	1450.2

Sample Name: CCVB4      Acquired: 11/11/2010 15:28:35      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.904	9.792	-0.0015	1.007	9.713	.00004	.0002	.0001
Stddev	.013	.039	.0019	.000	.046	.00002	.0015	.0000
%RSD	.1867	.3939	122.7	.0200	.4733	41.097	796.0	40.23
#1	6.895	9.765	-0.0002	1.007	9.745	.00005	.0012	.0001
#2	6.913	9.820	-0.0029	1.007	9.680	.00003	-0.0008	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.759	9.458	.0002	.0002	.0065	.0003	9.878
Stddev	.0000	.061	.039	.0004	.0001	.0003	.0008	.073
%RSD	16.07	.6264	.4137	258.5	62.02	4.103	273.6	.7417
#1	.0001	9.802	9.431	-0.0001	.0001	.0067	.0008	9.930
#2	.0001	9.715	9.486	.0004	.0003	.0063	-0.0003	9.826
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0018	9.832	9.638	10.07	.9707	.9733	-0.0006	-0.0002
Stddev	.0010	.030	.051	.06	.0045	.0113	.0000	.0001
%RSD	54.97	.3007	.5267	.5496	.4608	1.164	3.632	.56.26
#1	-0.0011	9.853	9.674	10.11	.9739	.9813	-0.0006	-0.0001
#2	-0.0025	9.811	9.602	10.03	.9676	.9653	-0.0006	-0.0003
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value Range								

Sample Name: CCVB4      Acquired: 11/11/2010 15:28:35      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>9.680</b>	<b>-.0021</b>	<b>.0007</b>	<b>9.731</b>	<b>.0004</b>	<b>.0016</b>	<b>.0003</b>	<b>.0003</b>
Stddev	.051	.0011	.0002	.045	.0000	.0007	.0001	.0001
%RSD	.5255	53.65	29.69	.4676	4.417	44.87	27.73	22.76
#1	9.644	-.0013	.0008	9.699	.0004	.0011	.0002	.0003
#2	9.716	-.0029	.0005	9.763	.0004	.0020	.0003	.0002
Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>10.11</b>	<b>10.04</b>	<b>.0002</b>	<b>.0026</b>	<b>.9642</b>	<b>.97448</b>
Stddev	.01	.05	.0001	.0012	.0023	.00438
%RSD	.1400	.4649	33.87	44.58	.2362	.44958
#1	10.12	10.07	.0003	.0018	.9658	.97758
#2	10.10	10.01	.0002	.0034	.9626	.97139
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5885.1	107020.	1444.7	1444.0
Stddev	14.5	416.	2.6	7.4
%RSD	.24701	.38846	.17797	.51395
#1	5895.3	106730.	1442.9	1449.3
#2	5874.8	107320.	1446.6	1438.8

Sample Name: CCB4      Acquired: 11/11/2010 15:32:40      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0009	-.0014	.0021	.0006	.00002	-.0007	.0000
Stddev	.0001	.0009	.0009	.0002	.0003	.00000	.0003	.000
%RSD	16.09	91.45	62.03	8.305	41.47	19.622	47.59	732.1
#1	.0006	-.0015	-.0008	.0020	.0005	.00002	-.0005	.0000
#2	.0005	-.0003	-.0021	.0022	.0008	.00002	-.0010	.0000

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0096	.0007	-.0002	-.0001	.0000	.0001	-.0031
Stddev	.0000	.0083	.0001	.0000	.0002	.0001	.0005	.0026
%RSD	295.4	86.26	21.85	14.43	463.0	340.0	681.6	85.06
#1	.0000	-.0037	.0006	-.0002	.0001	-.0001	.0004	-.0049
#2	.0000	-.0155	.0008	-.0001	-.0002	.0001	-.0003	-.0012

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0207	.0000	.0033	-.0001	-.0006	-.0005	.0000
Stddev	.0005	.0246	.000	.0032	.0000	.0008	.0002	.000
%RSD	37.68	118.7	228.6	97.38	14.99	128.8	36.43	312.8
#1	-.0017	-.0381	.0000	.0010	-.0001	-.0011	-.0007	.0000
#2	-.0010	-.0033	.0000	.0055	-.0001	-.0001	-.0004	-.0001

Check ?      Chk Pass      None    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit



Sample Name: CCB4      Acquired: 11/11/2010 15:32:40      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0513	-.0024	.0004	-.0100	.0004	.0000	-.0001	.0000
Stddev	.0341	.0019	.0001	.0031	.0003	.000	.0000	.0000
%RSD	66.53	76.16	26.92	31.44	78.26	1049.	23.26	13.37
#1	-.0755	-.0038	.0004	-.0122	.0005	-.0002	-.0001	.0000
#2	-.0272	-.0011	.0003	-.0078	.0002	.0002	-.0001	.0000

Check ?      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass  
 High Limit  
 Low Limit

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0052	.0195	.0001	-.0001	.0026	.00013
Stddev	.0024	.0084	.0001	.0001	.0039	.00004
%RSD	45.51	43.28	80.61	115.0	149.8	27.348
#1	-.0035	.0135	.0001	-.0002	.0053	.00016
#2	-.0069	.0255	.0000	.0000	-.0002	.00011

Check ?      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass  
 High Limit  
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5923.7	109090.	1402.4	1447.5
Stddev	11.9	563.	27.6	1.1
%RSD	.20113	.51585	1.9715	.07478
#1	5932.1	109480.	1422.0	1448.3
#2	5915.3	108690.	1382.9	1446.7

Sample Name: K1010795-001      Acquired: 11/11/2010 15:35:21      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132	F .0115	-.0016	.0030	.1086	.00001	F .0083	.0000

#1	.0130	.0122	-.0014	.0033	.1089	.00006	.0084	.0000
#2	.0134	.0109	-.0019	.0027	.1083	-.00003	.0082	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 61.03	F .0036	.0005	.0014	.0009	.0353	-.0015

#1	.0001	61.03	.0036	.0003	.0009	.0007	.0280	-.0007
#2	.0001	61.02	.0036	.0006	.0018	.0011	.0426	-.0022

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 19.09	.0629	.0020	.0074	4.449	-.0013	.0000	F 18.61

#1	19.11	.0626	.0019	.0073	4.406	-.0002	.0000	18.69
#2	19.06	.0633	.0021	.0075	4.493	-.0023	.0000	18.52

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0029	F .0040	F .0040	.2590	18.67	.0003	-.0007

#1	.0006	.0031	.0041	.0039	.2560	18.69	.0001	-.0007
#2	.0008	.0026	.0039	.0041	.2620	18.64	.0006	-.0007

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0119	.21753

#1	.0088	.21727
#2	.0150	.21780

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.5	106900.	1410.8	1420.1

#1	5814.4	106860.	1412.2	1425.1
#2	5794.6	106940.	1409.5	1415.0

Sample Name: K1010795-001D      Acquired: 11/11/2010 15:38:38      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136	F .0123	-.0018	.0050	.1098	.00003	F .0068	.0000

#1	.0136	.0139	-.0004	.0034	.1090	.00004	.0061	.0000
#2	.0135	.0108	-.0032	.0067	.1106	.00001	.0075	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 61.85	F .0037	.0007	.0014	.0022	.0460	-.0014

#1	.0001	61.68	.0039	.0008	.0012	.0022	.0488	-.0011
#2	.0001	62.02	.0034	.0006	.0016	.0023	.0433	-.0017

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 19.47	.0639	.0022	.0071	4.639	-.0007	.0000	F 19.03

#1	19.42	.0636	.0022	.0070	4.612	-.0016	.0000	19.05
#2	19.52	.0641	.0023	.0072	4.666	.0002	.0000	19.02

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0020	F .0046	F .0046	.2550	19.12	.0005	-.0001

#1	-.0003	.0024	.0045	.0046	.2558	19.17	.0007	.0004
#2	.0002	.0017	.0046	.0046	.2542	19.07	.0004	-.0005

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0157	.22043

#1	.0180	.22006
#2	.0134	.22081

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5828.3	107260.	1426.5	1426.4

#1	5844.2	107300.	1426.5	1428.5
#2	5812.4	107220.	1426.5	1424.4

Sample Name: K1010795-001L      Acquired: 11/11/2010 15:42:05      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B 1/5

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	-.0003	-.0004	.0026	.0229	.00006	.0005	.0000

#1	.0031	-.0018	-.0003	.0033	.0220	.00001	.0003	-.0001
#2	.0030	.0012	-.0005	.0020	.0239	.00010	.0008	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	12.92	12.43	.0009	.0002	.0003	.0001	.0148

#1	.0000	12.95	12.40	.0008	.0003	.0005	.0008	.0150
#2	.0001	12.90	12.47	.0011	.0001	.0001	-.0007	.0146

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	4.066	3.947	.0134	.0000	.0018	.7747	-.0016

#1	.0000	4.066	3.948	.0134	.0000	.0019	.8318	-.0010
#2	-.0010	4.065	3.946	.0134	.0000	.0017	.7176	-.0021

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	3.765	.0003	.0006	.0008	.0008	.0483	3.781

#1	.0001	3.804	.0001	.0001	.0009	.0008	.0468	3.780
#2	.0005	3.727	.0005	.0010	.0007	.0008	.0497	3.783

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0021	.0070	.04543

#1	-.0001	.0023	.0032	.04553
#2	.0003	.0019	.0107	.04533

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5822.6	104990.	1359.1	1436.2

#1	5710.5	104850.	1361.0	1408.2
#2	5934.7	105130.	1357.2	1464.1

Sample Name: K1010795-001S      Acquired: 11/11/2010 15:45:29      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 111110B

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>1.964</b>	<b>.4833</b>	<b>.9503</b>	<b>2.001</b>	<b>.04861</b>	<b>.9961</b>	<b>.0472</b>	<b>.0476</b>

#1	1.965	.4854	.9488	2.016	.04841	.9946	.0470	.0475
#2	1.963	.4812	.9519	1.986	.04881	.9975	.0474	.0476

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>71.81</b>	<b>.1952</b>	<b>.4679</b>	<b>.2330</b>	<b>.2427</b>	<b>1.018</b>	<b>.4798</b>	<b>29.06</b>

#1	72.19	.1947	.4666	.2325	.2422	1.030	.4783	29.08
#2	71.43	.1956	.4691	.2334	.2432	1.006	.4814	29.03

Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.5249</b>	<b>.9933</b>	<b>.4734</b>	<b>14.84</b>	<b>.8784</b>	<b>.0485</b>	<b>29.64</b>	<b>.0002</b>

#1	.5242	.9902	.4719	14.76	.8764	.0480	29.85	.0000
#2	.5255	.9963	.4748	14.93	.8804	.0489	29.42	.0005

Elem	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.4879</b>	<b>.4852</b>	<b>.4708</b>	<b>.2464</b>	<b>19.20</b>	<b>.0007</b>	<b>.9197</b>	<b>.0204</b>

#1	.4887	.4836	.4712	.2475	19.23	.0005	.9181	.0201
#2	.4872	.4868	.4705	.2453	19.17	.0008	.9212	.0206

Elem	Sr4077
Units	ppm
Avg	<b>9.6738</b>

#1	9.7454
#2	9.6023

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	<b>5664.4</b>	<b>105560.</b>	<b>1421.4</b>	<b>1378.2</b>

#1	5687.8	105320.	1412.0	1384.2
#2	5640.9	105800.	1430.9	1372.2

Sample Name: K1010795-002      Acquired: 11/11/2010 15:48:45      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	F -.0002	-.0025	.0030	.0520	.00002	F .0048	.0000

#1	.0043	.0013	-.0019	.0048	.0520	.00010	.0048	-.0001
#2	.0047	-.0017	-.0031	.0012	.0520	-.00006	.0048	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 78.64	F .0017	.0003	.0009	.0016	F .0151	-.0016

#1	.0001	78.53	.0017	.0001	.0010	.0011	.0154	-.0025
#2	.0001	78.76	.0016	.0006	.0007	.0021	.0147	-.0007

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 31.30	.0374	.0016	.0007	4.674	-.0008	.0000	F 32.10

#1	31.36	.0374	.0016	.0007	4.691	.0000	-.0002	32.03
#2	31.24	.0373	.0015	.0007	4.658	-.0016	.0003	32.16

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0054	F .0030	F .0032	.2450	21.61	-.0001	.0013

#1	-.0009	.0052	.0029	.0032	.2419	21.73	.0000	.0025
#2	-.0001	.0055	.0030	.0031	.2480	21.49	-.0001	.0002

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0096	.39873

#1	.0085	.39789
#2	.0107	.39957

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5683.5	106290.	1418.7	1390.5

#1	5698.6	106300.	1424.5	1393.2
#2	5668.4	106270.	1412.9	1387.8

Sample Name: K1010795-003      Acquired: 11/11/2010 15:52:13      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0021	-.0009	.0020	.0003	.00000	.0005	.0000

#1	.0010	.0009	.0000	.0020	.0004	-.00003	.0015	.0000
#2	.0010	-.0052	-.0019	.0020	.0001	.00002	-.0006	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0059	.0076	.0004	.0001	.0001	-.0005	.0053

#1	.0000	.0032	.0077	.0005	-.0001	.0004	-.0008	.0083
#2	.0001	.0086	.0075	.0004	.0003	-.0002	-.0003	.0022

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0009	-.0010	-.0001	-.0008	.0001	-.1307	-.0016

#1	-.0006	.0010	-.0007	-.0002	-.0010	.0001	-.1005	-.0004
#2	-.0004	.0008	-.0013	-.0001	-.0006	.0001	-.1609	-.0029

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0455	.0008	.0002	.0003	.0005	.1506	.0119

#1	.0004	.0410	.0005	.0000	.0003	.0005	.1544	.0001
#2	.0007	.0500	.0010	.0004	.0003	.0006	.1467	.0237

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0003	.0025	.00026

#1	-.0001	.0011	-.0025	.00030
#2	.0000	-.0004	.0075	.00021

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5949.0	110330.	1416.3	1453.7

#1	5971.5	110370.	1418.3	1461.9
#2	5926.4	110290.	1414.4	1445.5

Sample Name: K1010850-001      Acquired: 11/11/2010 15:54:50      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158	F .0164	-.0029	.0036	.1010	.00003	F .0074	.0000

#1	.0157	.0148	-.0046	.0041	.1017	.00003	.0077	.0000
#2	.0160	.0179	-.0011	.0030	.1004	.00003	.0072	-.0001

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 128.2	F .0016	.0011	.0008	.0017	.0304	-.0012

#1	.0000	128.1	.0018	.0011	.0009	.0021	.0295	-.0012
#2	.0000	128.3	.0014	.0011	.0007	.0013	.0312	-.0011

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 40.40	.1338	.0022	.0024	6.713	-.0024	.0001	F 28.96

#1	40.50	.1338	.0023	.0024	6.735	-.0014	-.0006	29.13
#2	40.31	.1339	.0022	.0024	6.691	-.0034	.0008	28.80

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0018	F .0052	F .0054	.2343	17.80	.0005	-.0006

#1	.0000	.0018	.0051	.0054	.2293	17.91	.0006	-.0007
#2	.0003	.0019	.0053	.0053	.2394	17.68	.0005	-.0004

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0183	.47350

#1	.0146	.47245
#2	.0220	.47455

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5640.9	104260.	1386.7	1362.6

#1	5660.7	104180.	1393.5	1369.4
#2	5621.1	104330.	1379.8	1355.7



Sample Name: K1010850-002      Acquired: 11/11/2010 15:58:55      Type: Unk

Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	F -.0009	-.0031	.0034	.0908	-.00002	F .0216	.0000

#1	.0082	-.0019	-.0047	.0038	.0909	-.00001	.0219	-.0001
#2	.0084	.0001	-.0015	.0030	.0907	-.00002	.0213	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F 45.80	F .0009	.0032	.0005	.0009	.0242	-.0009

#1	.0000	45.69	.0009	.0033	-.0001	.0003	.0255	-.0012
#2	.0001	45.91	.0008	.0032	.0012	.0016	.0228	-.0005

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 13.25	.0214	-.0001	.0007	F 29.52	-.0017	-.0004	F 84.22

#1	13.29	.0213	-.0003	.0005	29.76	-.0011	-.0002	84.74
#2	13.20	.0214	.0001	.0009	29.28	-.0023	-.0005	83.71

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0051	F .0066	F .0065	.2086	23.80	.0000	.0003

#1	.0005	.0053	.0064	.0066	.2096	24.05	-.0001	-.0009
#2	.0003	.0049	.0067	.0065	.2076	23.55	.0001	.0014

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0131	.24622

#1	.0112	.24656
#2	.0150	.24588

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5726.8	105450.	1382.8	1396.2

#1	5746.4	105390.	1393.6	1400.4
#2	5707.2	105520.	1371.9	1391.9

Sample Name: K1010850-003      Acquired: 11/11/2010 16:02:17      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	F -.0008	-.0009	.0026	.0904	-.00003	F .0119	.0000

#1	.0022	-.0019	-.0019	.0021	.0909	-.00001	.0117	-.0001
#2	.0022	.0002	.0001	.0030	.0899	-.00005	.0121	.0000

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 117.1	F .0008	.0009	.0005	.0000	F .0045	-.0015

#1	.0001	117.3	.0008	.0009	.0005	.0003	.0014	-.0026
#2	.0002	117.0	.0008	.0010	.0005	-.0003	.0077	-.0005

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 37.44	.0867	.0003	.0007	F 11.95	-.0024	.0001	F 82.26

#1	37.50	.0866	.0004	.0009	11.92	-.0020	.0003	82.73
#2	37.39	.0868	.0002	.0005	11.98	-.0027	-.0001	81.79

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0046	.0110	.0105	.1910	23.11	-.0003	-.0007

#1	-.0009	.0048	.0110	.0105	.1893	23.16	-.0004	-.0011
#2	.0000	.0045	.0110	.0105	.1928	23.06	-.0002	-.0002

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0168	.63591

#1	.0180	.63703
#2	.0156	.63478

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5470.1	100650.	1332.5	1316.7

#1	5480.3	100560.	1329.7	1317.7
#2	5459.8	100740.	1335.4	1315.8

Sample Name: K1010850-004      Acquired: 11/11/2010 16:05:44      Type: Unk  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F .0006	-.0017	.0003	F -.0007	.00001	F -.0012	.0000

#1	.0012	.0027	-.0013	.0019	-.0011	.00002	-.0012	-.0001
#2	.0012	-.0015	-.0021	-.0012	-.0004	.00001	-.0011	.0000

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F .0046	.0084	F .0000	.0001	-.0002	-.0004	F -.0045

#1	.0000	-.0053	.0085	.0003	-.0001	-.0002	-.0004	-.0035
#2	.0000	.0144	.0084	-.0002	.0004	-.0002	-.0004	-.0056

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	.0016	F .0061	-.0001	-.0010	.0002	F -.1181	-.0017

#1	-.0016	.0016	.0038	-.0001	-.0011	.0002	-.1757	-.0028
#2	-.0007	.0015	.0085	-.0001	-.0009	.0001	-.0604	-.0006

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F .1515	.0001	.0003	F .0004	F .0004	.2107	.0006

#1	.0000	.1216	.0003	.0003	.0004	.0004	.2117	-.0045
#2	.0002	.1814	.0000	.0003	.0004	.0004	.2098	.0056

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0011	.0060	.00028

#1	.0000	.0015	.0104	.00027
#2	.0001	.0007	.0016	.00028

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5877.4	108190.	1375.0	1431.4

#1	5892.3	108310.	1382.6	1434.0
#2	5862.5	108070.	1367.4	1428.7

Sample Name: CCVA5      Acquired: 11/11/2010 16:08:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2464	.2395	.2460	.2576	.2384	.24970	.2493	.2459
Stddev	.0013	.0025	.0030	.0039	.0005	.00035	.0012	.0015
%RSD	.5083	1.064	1.203	1.519	.1966	.13981	.4834	.6061

#1	.2455	.2377	.2439	.2604	.2387	.24945	.2485	.2448
#2	.2473	.2413	.2481	.2548	.2380	.24995	.2502	.2469

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	.2386	.2481	.2447	.2462	.2438	.2506	.2495
Stddev	.0004	.0012	.0008	.0002	.0014	.0017	.0007	.0100
%RSD	.1697	.5215	.3254	.0960	.5831	.7061	.2758	4.009

#1	.2475	.2394	.2487	.2449	.2452	.2426	.2501	.2566
#2	.2481	.2377	.2476	.2445	.2472	.2450	.2511	.2425

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445	.2382	.2489	.2477	.2417	.2375	.2456	.2485
Stddev	.0002	.0128	.0012	.0020	.0001	.0044	.0015	.0011
%RSD	.0899	5.374	.4965	.8230	.0533	1.852	.6147	.4255

#1	.2444	.2473	.2498	.2462	.2418	.2406	.2445	.2477
#2	.2447	.2292	.2481	.2491	.2416	.2344	.2466	.2492

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA5      Acquired: 11/11/2010 16:08:22      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>2.245</b>	<b>.2461</b>	<b>.2482</b>	<b>.3206</b>	<b>.2448</b>	<b>.2438</b>	<b>.2479</b>	<b>.2486</b>
Stddev	.059	.0013	.0004	.0517	.0013	.0001	.0007	.0001
%RSD	2.622	.5232	.1624	16.14	.5202	.0246	.2893	.0453

#1	2.203	.2471	.2485	.2840	.2439	.2438	.2474	.2487
#2	2.286	.2452	.2479	.3571	.2457	.2439	.2484	.2485

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>-.0071</b>	<b>.1259</b>	<b>.2455</b>	<b>.2443</b>	<b>.0066</b>	<b>-.00020</b>
Stddev	.0031	.0084	.0005	.0006	.0002	.00001
%RSD	43.09	6.658	.1942	.2531	2.538	6.4058

#1	-.0093	.1200	.2452	.2438	.0065	-.00019
#2	-.0050	.1319	.2459	.2447	.0067	-.00021

Check ?	None	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5903.5	108760.	1403.1	1450.6
Stddev	32.8	290.	7.1	7.7
%RSD	.55598	.26618	.50495	.53124

#1	5926.7	108550.	1398.1	1456.1
#2	5880.3	108960.	1408.2	1445.2

Sample Name: CCVB5      Acquired: 11/11/2010 16:11:20      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>7.205</b>	<b>9.844</b>	<b>-.0006</b>	<b>1.009</b>	<b>9.986</b>	<b>.00014</b>	<b>.0001</b>	<b>.0000</b>
Stddev	.053	.034	.0014	.006	.046	.00006	.0004	.0000
%RSD	.7364	.3495	219.1	.5606	.4569	45.440	573.4	6.374
#1	7.168	9.820	.0004	1.005	9.954	.00009	-.0002	.0000
#2	7.243	9.869	-.0017	1.013	10.02	.00018	.0003	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>.0001</b>	<b>10.10</b>	<b>9.779</b>	<b>.0001</b>	<b>.0001</b>	<b>.0065</b>	<b>-.0002</b>	<b>10.25</b>
Stddev	.0000	.05	.135	.0001	.0000	.0002	.0001	.04
%RSD	11.61	.4978	1.384	75.55	42.19	2.618	96.06	.3768
#1	.0001	10.06	9.684	.0001	.0000	.0063	-.0003	10.28
#2	.0001	10.13	9.875	.0002	.0001	.0066	.0000	10.23
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>-.0010</b>	<b>10.24</b>	<b>9.982</b>	<b>10.00</b>	<b>1.001</b>	<b>.9995</b>	<b>-.0005</b>	<b>.0001</b>
Stddev	.0005	.14	.053	.06	.003	.0010	.0003	.0000
%RSD	45.87	1.412	.5277	.5734	.2646	.0969	57.82	14.97
#1	-.0007	10.13	9.945	10.04	1.002	.9988	-.0003	.0001
#2	-.0013	10.34	10.02	9.960	.9986	1.000	-.0007	.0001
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVB5      Acquired: 11/11/2010 16:11:20      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>9.454</b>	<b>-0.0037</b>	<b>.0003</b>	<b>9.626</b>	<b>-0.0001</b>	<b>.0015</b>	<b>.0003</b>	<b>.0003</b>
Stddev	.060	.0019	.0001	.040	.0012	.0002	.0001	.0000
%RSD	.6369	53.14	41.19	.4184	811.8	16.13	21.66	1.789

#1	9.496	-0.0050	.0004	9.597	-0.0010	.0017	.0003	.0003
#2	9.411	-0.0023	.0002	9.654	.0007	.0014	.0002	.0003

Check ?	Chk Pass	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	<b>10.15</b>	<b>10.16</b>	<b>.0004</b>	<b>.0013</b>	<b>.9549</b>	<b>.99552</b>
Stddev	.08	.07	.0000	.0008	.0057	.00327
%RSD	.7904	.7273	.3544	56.69	.5918	.32853

#1	10.09	10.21	.0004	.0008	.9589	.99321
#2	10.21	10.10	.0004	.0019	.9509	.99783

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5630.1	104040.	1391.6	1381.7
Stddev	14.9	37.	11.1	4.6
%RSD	.26463	.03538	.79834	.33258

#1	5640.7	104020.	1399.5	1384.9
#2	5619.6	104070.	1383.8	1378.4

Sample Name: CCB5      Acquired: 11/11/2010 16:15:26      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0025	-.0013	.0017	.0009	.00003	-.0010	.0000
Stddev	.0001	.0033	.0026	.0018	.0005	.00002	.0002	.000
%RSD	31.96	133.0	206.0	108.5	55.78	88.073	17.15	97.05

#1	.0002	-.0048	-.0031	.0004	.0006	.00004	-.0009	.0000
#2	.0002	-.0001	.0006	.0030	.0013	.00001	-.0011	-.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0044	.0003	-.0002	.0001	-.0002	-.0007	-.0016
Stddev	.0000	.0188	.0001	.0001	.0001	.0001	.0001	.0032
%RSD	167.8	425.5	37.98	44.14	193.9	51.93	11.45	199.9

#1	.0000	.0089	.0004	-.0002	.0000	-.0003	-.0008	-.0039
#2	.0000	-.0177	.0002	-.0003	.0001	-.0001	-.0007	.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0167	.0000	.0017	-.0001	.0011	-.0006	-.0001
Stddev	.0003	.0095	.0001	.0040	.0000	.0019	.0001	.0003
%RSD	23.13	56.56	4491.	240.2	17.23	183.2	12.96	552.0

#1	-.0011	-.0100	-.0001	-.0012	-.0001	-.0003	-.0007	.0002
#2	-.0015	-.0234	.0001	.0045	-.0001	.0024	-.0006	-.0003

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								



Sample Name: CCB5      Acquired: 11/11/2010 16:15:26      Type: QC  
 Method: 10C2007(v48)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 111110B

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.1555	-.0010	-.0005	.0058	.0005	.0000	.0000	.0000
Stddev	.0367	.0004	.0003	.0346	.0001	.000	.000	.0001
%RSD	23.61	44.19	59.88	596.4	15.42	.2657	6.645	3739.

#1	-.1815	-.0013	-.0007	-.0187	.0004	.0000	-.0001	-.0001
#2	-.1296	-.0007	-.0003	.0303	.0006	.0000	.0000	.0001

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.1000							
Low Limit	-.1000							

Elem	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0097	.0000	.0005	.0051	.00005
Stddev	.0026	.0350	.000	.0004	.0011	.00003
%RSD	83.91	358.6	245.1	79.02	21.47	55.108

#1	-.0050	.0345	-.0001	.0009	.0043	.00007
#2	-.0013	-.0150	.0000	.0002	.0059	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5864.3	107920.	1377.2	1436.9
Stddev	3.1	60.	2.6	.4
%RSD	.05290	.05559	.19228	.02617

#1	5862.1	107960.	1375.3	1437.2
#2	5866.4	107870.	1379.1	1436.7

Service Request #   K1010850    
 Calibration   110910BMS03    
 QC in calibration   110910BMS03    
 QC Service Request #   K1010795    
 STARLIMS run #   224560  

## ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u>  X  </u>	<u>      </u>	<u>      </u>
2. ICV within 10 % of true value	<u>  X  </u>	<u>      </u>	<u>      </u>
3. CCV's in control	<u>  X  </u>	<u>      </u>	<u>      </u>
4. CCB's and/or ICB's below MRL	<u>  X  </u>	<u>      </u>	<u>      </u>
5. Method blank below MRL	<u>  X  </u>	<u>      </u>	<u>      </u>
6. LCS in control	<u>  X  </u>	<u>      </u>	<u>      </u>
7. Spike and duplicate in control	<u>  X  </u>	<u>      </u>	<u>      </u>
8. All analytes within instrument linear range	<u>  X  </u>	<u>      </u>	<u>      </u>
9. Adequate rinse out time allowed	<u>  X  </u>	<u>      </u>	<u>      </u>
10. Internal standards in control	<u>  X  </u>	<u>      </u>	<u>      </u>
11. Interferences checked	<u>  X  </u>	<u>      </u>	<u>      </u>
12. Se over MRL	<u>      </u>	<u>  X  </u>	<u>      </u>
13. CRA run	<u>  X  </u>	<u>      </u>	<u>      </u>
14. Cd Correction Applied	<u>      </u>	<u>  X  </u>	<u>      </u>
15. ICSA and ICSAB in control	<u>      </u>	<u>      </u>	<u>  X  </u>
16. Serial dilution run	<u>      </u>	<u>      </u>	<u>  X  </u>
17. Post spike in control	<u>      </u>	<u>      </u>	<u>  X  </u>

Comments:

Primary Review by   JDB   Date   11/10/10    
 Secondary Review by            Date   11/10/10  

R:\icp\misc\data review forms\icpms review form

### Performance Report

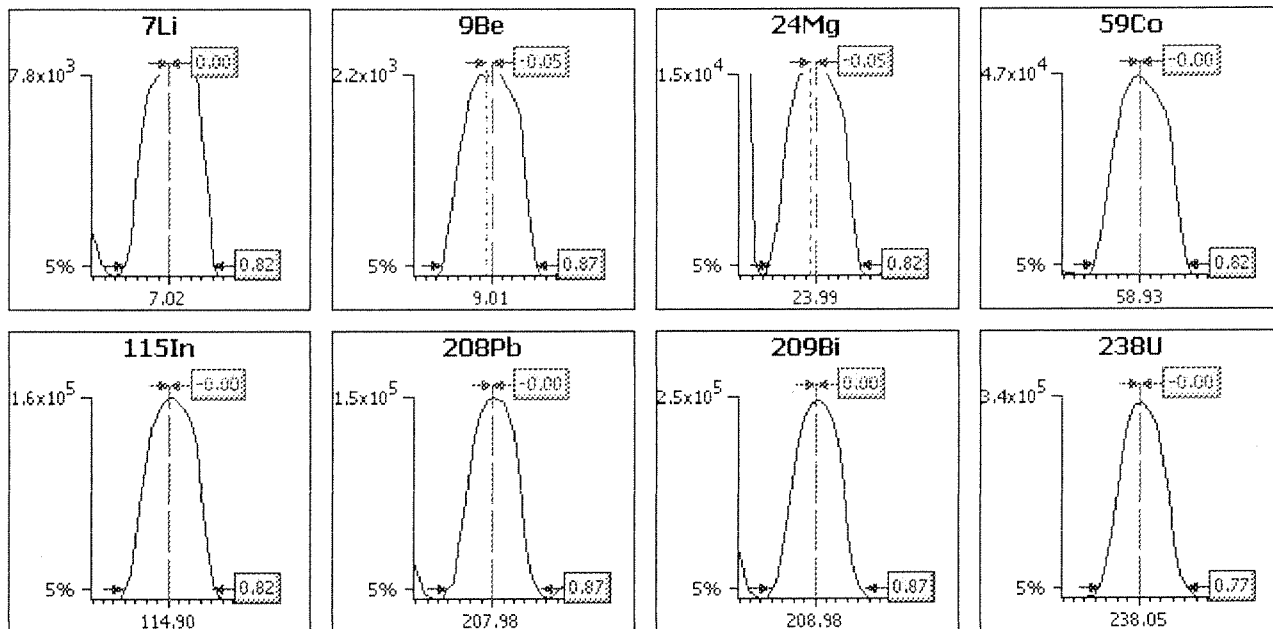
#### Sample details

Acquired at : 11/9/2010 9:38:55 AM  
 Report name : Kelso Performance Report 3 [10/6/2010 2:32:41 PM]

#### Mass Calibration verification

##### Acquisition parameters

Sweeps : 100  
 Dwell : 1.0 mSecs  
 Point spacing : 0.05 amu  
 Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.82	0.00
9Be	0.90	0.60	0.10	0.87	-0.05
24Mg	0.90	0.60	0.10	0.82	-0.05
59Co	0.90	0.60	0.10	0.82	-0.00
115In	0.90	0.60	0.10	0.82	-0.00
208Pb	0.90	0.60	0.10	0.87	-0.00
209Bi	0.90	0.60	0.10	0.87	0.00
238U	0.90	0.60	0.10	0.77	-0.00

**Sample details**

Acquired at : 11/9/2010 9:38:55 AM  
 Report name : Kelso Performance Report 3 [10/6/2010 2:32:41 PM]

**Tune conditions**

Major		Minor		Global		Add. Gases
Extraction	-149	Lens 2	-18.0	Standard resolution	95	
Lens 1	4.7	Lens 3	-174.9	High resolution	85	
Focus	19.8	Forward power	1247	Analogue Detector	2000	
D1	-40.0	Horizontal	114	PC Detector	4049	
Pole Bias	1.0	Vertical	349			
Hexapole Bias	1.0	D2	-152			
Nebuliser	0.76	DA	-33.7			
Sampling Depth	72	Cool	13.0			
		Auxiliary	0.80			

**Sensitivity and stability results**

**Acquisition parameters**

Sweeps : 400

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
<b>Dwell (mSecs)</b>		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Limits</b>	<b>%RSD</b>	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	<b>Countrate</b>	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	9:39:26 AM	0.000	8624.339	2035.728	16296.844	46979.074	160288.74	186479.94	1553.883	157996.89
2	9:40:39 AM	0.250	8737.697	2047.981	16298.347	47078.336	160483.89	186779.25	1588.139	157733.12
3	9:41:52 AM	0.500	8707.168	2018.724	16345.932	46788.847	160387.20	186418.71	1569.385	157059.86
4	9:43:05 AM	0.000	8618.083	1986.967	16319.635	46414.435	160026.43	186299.81	1527.378	157192.62
5	9:44:17 AM	0.000	8620.085	1976.465	16106.505	46742.610	159697.21	185353.76	1523.128	156472.10
x		0.150	8661.474	2013.173	16273.453	46800.660	160176.69	186266.29	1552.383	157290.92
σ		0.22	56.73	30.76	95.43	255.74	317.69	539.87	27.62	597.38
%RSD		149.071	0.655	1.528	0.586	0.546	0.198	0.290	1.779	0.380

Run	Time	209Bi	220Bkg	238U
<b>Dwell (mSecs)</b>		10.0	10.0	10.0
<b>Limits</b>	<b>%RSD</b>	5.0%	-	5.0%
	<b>Countrate</b>	>1000	-	>1000
1	9:39:26 AM	245219.02	0.000	334776.18
2	9:40:39 AM	245910.58	0.000	336098.66
3	9:41:52 AM	245089.85	0.000	334557.34
4	9:43:05 AM	244892.90	0.000	334400.48
5	9:44:17 AM	244324.92	0.000	334377.14
x		245087.45	0.000	334841.96
σ		573.18	0.00	720.35
%RSD		0.234	0.000	0.215

**Ratio results**

Run	Time	156Ce O/140Ce
<b>Ratio limits</b>		<0.0200
1	9:39:26 AM	0.008
2	9:40:39 AM	0.009
3	9:41:52 AM	0.008
4	9:43:05 AM	0.008
5	9:44:17 AM	0.008
x		0.0083
σ		0.00
%RSD		1.5598

Result : The performance report passed.

## Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CRA	Unknown	1.000	0	1	4	150
8	K1011605-MB	Unknown	1.000	1	1	1	150
9	LCSW	Unknown	1.000	1	1	2	150
10	K1011605-001	Unknown	1.000	1	1	3	150
11	K1011605-001S	Unknown	1.000	1	1	4	150
12	K1011605-001SD	Unknown	1.000	1	1	5	150
13	K1011605-001 DISS	Unknown	1.000	1	1	6	150
14	K1011605-001 DISSS	Unknown	1.000	1	1	7	150
15	K1011605-001 DISSD	Unknown	1.000	1	1	8	150
16	K1011103-001	Unknown	1.000	1	1	9	150
17	CCV2	Unknown	1.000	0	1	2	150
18	CCB2	Unknown	1.000	0	1	1	150
19	K1011487-001	Unknown	1.000	1	1	10	150
20	K1012425-001	Unknown	1.000	1	1	11	150
21	K1012425-002	Unknown	1.000	1	1	12	150
22	K1012425-003	Unknown	1.000	1	2	1	150
23	K1012425-004	Unknown	1.000	1	2	2	150
24	K1012462-001	Unknown	1.000	1	2	3	150
25	K1010795-MB	Unknown	1.000	1	2	4	150
26	LCSW	Unknown	1.000	1	2	5	150
27	K1010795-001	Unknown	1.000	1	2	6	150
28	K1010795-001D	Unknown	1.000	1	2	7	150
29	CRA	Unknown	1.000	0	1	4	150
30	CCV3	Unknown	1.000	0	1	2	150
31	CCB3	Unknown	1.000	0	1	1	150
32	K1010795-001S	Unknown	1.000	1	2	8	150
33	K1010795-002	Unknown	1.000	1	2	9	150
34	K1010795-003	Unknown	1.000	1	2	10	150
35	K1010850-001	Unknown	1.000	1	2	11	150
36	K1010850-002	Unknown	1.000	1	2	12	150
37	K1010850-003	Unknown	1.000	1	3	1	150
38	K1010850-004	Unknown	1.000	1	3	2	150
39	K1010899-001	Unknown	1.000	1	3	3	150
40	K1010899-002	Unknown	1.000	1	3	4	150
41	CCV4	Unknown	1.000	0	1	2	150
42	CCB4	Unknown	1.000	0	1	1	150
43	K1011360-001	Unknown	1.000	1	3	5	150
44	K1011360-001D	Unknown	1.000	1	3	6	150
45	K1011360-001S	Unknown	1.000	1	3	7	150
46	K1011461-001	Unknown	1.000	1	3	8	150
47	K1011461-002	Unknown	1.000	1	3	9	150
48	K1011461-003	Unknown	1.000	1	3	10	150
49	K1011461-004	Unknown	1.000	1	3	11	150
50	K1011461-005	Unknown	1.000	1	3	12	150
51	K1011461-006	Unknown	1.000	1	4	1	150
52	K1011461-007	Unknown	1.000	1	4	2	150
53	CCV5	Unknown	1.000	0	1	2	150
54	CCB5	Unknown	1.000	0	1	1	150

**Dilution Corrected Concentrations**

Cal. Blk 11/9/2010 10:58:18 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	103.0%	-0.0037	0.0203	-0.0318	-0.0025	2.9397	0.0358	0.0013
2	10:59:26	99.1%	-0.0029	-0.0341	0.0202	0.0053	0.1635	-0.0637	0.0069
3	11:00:33	98.0%	0.0066	0.0138	0.0117	-0.0028	-3.1032	0.0279	-0.0081
X		100.0%	-0.0000	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000
σ		2.6%	0.0057	0.0297	0.0279	0.0046	3.0247	0.0553	0.0076
%RSD		2.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	0.0140	0.0263	-0.0124	0.0015	0.0010	0.0011	0.1950	-0.0148
2	10:59:26	-0.0067	-0.0139	0.0073	0.0034	-0.0019	0.0038	-0.0743	-0.0153
3	11:00:33	-0.0073	-0.0124	0.0051	-0.0049	0.0009	-0.0049	-0.1207	0.0301
X		0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000
σ		0.0121	0.0228	0.0108	0.0044	0.0017	0.0045	0.1705	0.0261
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.0046	0.0002	0.0026	-0.0054	-0.0054	101.0%	0.0973	-0.0827
2	10:59:26	0.0073	0.0053	0.0053	0.0182	0.0049	100.5%	-0.0795	0.1047
3	11:00:33	-0.0028	-0.0054	-0.0079	-0.0128	0.0005	98.5%	-0.0178	-0.0220
X		0.0000	-0.0000	0.0000	-0.0000	0.0000	100.0%	-0.0000	-0.0000
σ		0.0064	0.0053	0.0070	0.0162	0.0051	1.3%	0.0897	0.0956
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.3	0.0000	0.0000
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.3424	0.2810	100.4%	0.0003	-0.0023	0.0018	100.3%	-0.0005
2	10:59:26	0.0880	-0.1995	100.6%	0.0051	0.0053	0.0065	100.1%	0.0009
3	11:00:33	0.2544	-0.0815	99.0%	-0.0054	-0.0030	-0.0083	99.6%	-0.0004
X		0.0000	0.0000	100.0%	0.0000	-0.0000	-0.0000	100.0%	0.0000
σ		0.3079	0.2504	0.9%	0.0053	0.0046	0.0076	0.4%	0.0008
%RSD		0.0000	0.0000	0.9	0.0000	0.0000	0.0000	0.4	0.0000
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	0.0005	0.0003	-0.0000	-0.0001	100.0%	0.0114	0.0061	0.0098
2	10:59:26	-0.0007	-0.0006	-0.0000	-0.0011	100.1%	-0.0033	0.0001	-0.0081
3	11:00:33	0.0003	0.0003	0.0000	0.0013	99.9%	-0.0081	-0.0062	-0.0017
X		-0.0000	0.0000	0.0000	-0.0000	100.0%	-0.0000	0.0000	0.0000
σ		0.0006	0.0005	0.0000	0.0012	0.1%	0.0101	0.0062	0.0091
%RSD		0.0000	0.0000	0.0000	0.0000	0.1	0.0000	0.0000	0.0000
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:58:18	-0.0005	0.0024	0.0005	0.0020	0.0014	98.3%	0.0016	0.0022
2	10:59:26	0.0002	-0.0010	0.0025	0.0006	0.0001	100.6%	0.0018	-0.0004
3	11:00:33	0.0002	-0.0013	-0.0030	-0.0026	-0.0015	101.2%	-0.0034	-0.0018
X		-0.0000	0.0000	0.0000	-0.0000	-0.0000	100.0%	-0.0000	-0.0000
σ		0.0004	0.0021	0.0028	0.0023	0.0014	1.5%	0.0030	0.0020
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.5	0.0000	0.0000
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	10:58:18	0.0018	0.0046	0.0019	-0.0018	97.8%	0.0009		
2	10:59:26	0.0001	-0.0004	0.0004	0.0027	100.8%	0.0012		
3	11:00:33	-0.0020	-0.0042	-0.0022	-0.0009	101.4%	-0.0022		
X		-0.0000	0.0000	0.0000	0.0000	100.0%	-0.0000		
σ		0.0019	0.0044	0.0021	0.0024	1.9%	0.0019		
%RSD		0.0000	0.0000	0.0000	0.0000	1.9	0.0000		

Cal. Stn 11/9/2010 11:03:52 AM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	10B ppb	11B ppb	27Al ppb	46Ti ppb	47Ti ppb	48Ti ppb
1	11:03:52	105.6%	25.2464	24.2254	23.5190	24.9493	26.1208	25.2126	24.9337
2	11:05:00	99.5%	25.0359	25.5571	25.5064	25.1364	27.0361	24.4539	25.0981
3	11:06:07	98.5%	24.7177	25.2175	25.9746	24.9142	21.8431	25.3334	24.9683
x		101.2%	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		3.9%	0.2662	0.6920	1.3038	0.1195	2.7720	0.4767	0.0867
%RSD		3.8	1.0647	2.7679	5.2151	0.4778	11.0879	1.9070	0.3467
Run	Time	51V ppb	52Cr ppb	53Cr ppb	55Mn ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	11:03:52	24.7497	25.0113	25.4951	24.9471	25.1344	25.2156	26.0872	24.9850
2	11:05:00	25.1105	25.0696	24.7550	25.1604	24.8843	24.8490	24.8607	24.6880
3	11:06:07	25.1398	24.9191	24.7499	24.8925	24.9813	24.9354	24.0521	25.3270
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.2173	0.0759	0.4288	0.1416	0.1261	0.1917	1.0247	0.3198
%RSD		0.8690	0.3037	1.7152	0.5663	0.5044	0.7666	4.0988	1.2792
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	11:03:52	25.0360	25.2493	24.7954	25.1466	25.1945	101.5%	25.2816	24.4723
2	11:05:00	25.1169	24.8998	24.9030	25.1801	24.5634	100.0%	24.5927	25.5692
3	11:06:07	24.8471	24.8509	25.3015	24.6734	25.2421	99.2%	25.1257	24.9585
x		25.0000	25.0000	25.0000	25.0000	25.0000	100.2%	25.0000	25.0000
σ		0.1384	0.2173	0.2666	0.2834	0.3789	1.1%	0.3613	0.5496
%RSD		0.5538	0.8691	1.0665	1.1335	1.5155	1.1	1.4451	2.1985
Run	Time	78Se ppb	82Se ppb	89Y ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	11:03:52	24.8986	25.1878	101.0%	24.2639	24.2910	24.5199	101.6%	24.8176
2	11:05:00	25.1768	24.8603	100.7%	24.9748	24.9065	25.0485	100.9%	25.0788
3	11:06:07	24.9247	24.9519	99.1%	25.7613	25.8025	25.4316	100.6%	25.1037
x		25.0000	25.0000	100.3%	25.0000	25.0000	25.0000	101.0%	25.0000
σ		0.1536	0.1689	1.0%	0.7490	0.7601	0.4578	0.5%	0.1585
%RSD		0.6146	0.6757	1.0	2.9960	3.0402	1.8311	0.5	0.6339
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	116Sn ppb	118Sn ppb	120Sn ppb
1	11:03:52	24.9074	24.8890	24.7817	24.7738	102.2%	24.6978	24.8459	24.7251
2	11:05:00	24.9960	25.0532	25.0243	25.1142	102.8%	25.0918	24.9861	25.1275
3	11:06:07	25.0967	25.0578	25.1940	25.1119	102.4%	25.2103	25.1680	25.1473
x		25.0000	25.0000	25.0000	25.0000	102.5%	25.0000	25.0000	25.0000
σ		0.0947	0.0962	0.2072	0.1959	0.3%	0.2683	0.1615	0.2383
%RSD		0.3789	0.3846	0.8289	0.7835	0.3	1.0733	0.6461	0.9530
Run	Time	121Sb ppb	123Sb ppb	135Ba ppb	137Ba ppb	138Ba ppb	175Lu ppb	203Tl ppb	205Tl ppb
1	11:03:52	24.7898	24.6790	24.7201	24.8508	24.6748	100.4%	24.7856	24.9159
2	11:05:00	25.2081	25.1357	25.3158	24.9799	25.1385	102.6%	25.1570	25.0853
3	11:06:07	25.0021	25.1853	24.9641	25.1693	25.1867	103.3%	25.0574	24.9988
x		25.0000	25.0000	25.0000	25.0000	25.0000	102.1%	25.0000	25.0000
σ		0.2091	0.2791	0.2995	0.1602	0.2827	1.5%	0.1922	0.0847
%RSD		0.8366	1.1163	1.1979	0.6409	1.1307	1.5	0.7690	0.3388
Run	Time	206Pb ppb	207Pb ppb	208Pb ppb	209Bi ppb	232Th ppb	238U ppb		
1	11:03:52	24.8246	24.8225	24.7909	24.8307	100.5%	24.8516		
2	11:05:00	25.1235	25.0859	25.1254	25.0774	104.0%	25.0523		
3	11:06:07	25.0519	25.0916	25.0838	25.0919	105.4%	25.0960		
x		25.0000	25.0000	25.0000	25.0000	103.3%	25.0000		
σ		0.1560	0.1537	0.1823	0.1468	2.5%	0.1303		
%RSD		0.6242	0.6149	0.7293	0.5871	2.4	0.5213		

ICV1 11/9/2010 11:14:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	104.9%	2.5227	25.7958	25.3347	99.8338	20.2678	26.3779	26.1779
2	11:15:28	97.0%	2.5275	25.9828	27.0918	100.9996	23.9915	26.4722	26.5969
3	11:16:35	96.3%	2.5221	26.4778	27.1459	99.8939	26.1279	24.5858	26.4161
X		99.4%	2.5241	26.0855	26.5241	100.2424	23.4624	25.8120	26.3970
$\sigma$		4.8%	0.0030	0.3524	1.0304	0.6564	2.9657	1.0629	0.2102
%RSD		4.8	0.1169	1.3510	3.8847	0.6548	12.6402	4.1180	0.7961
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.7720	9.8834	10.0011	24.8386	24.8096	24.8529	25.8064	24.9018
2	11:15:28	24.9928	9.9005	10.1657	25.3282	24.9655	24.8755	24.1935	24.6785
3	11:16:35	25.0730	10.0835	10.3404	25.4004	25.2967	24.7357	25.2605	24.4704
X		24.9459	9.9558	10.1691	25.1891	25.0239	24.8214	25.0868	24.6836
$\sigma$		0.1559	0.1110	0.1697	0.3057	0.2487	0.0750	0.8204	0.2157
%RSD		0.6249	1.1145	1.6685	1.2135	0.9939	0.3022	3.2702	0.8740
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	12.4140	12.5847	24.8380	28.5325	27.1853	100.5%	24.5232	25.6735
2	11:15:28	12.3932	12.1881	25.1655	29.3676	27.5197	98.3%	24.9300	24.4837
3	11:16:35	12.6800	12.6020	25.5873	28.0988	27.0611	97.6%	24.9016	25.7440
X		12.4957	12.4583	25.1969	28.6663	27.2554	98.8%	24.7850	25.3004
$\sigma$		0.1599	0.2342	0.3757	0.6449	0.2372	1.5%	0.2271	0.7081
%RSD		1.2798	1.8797	1.4909	2.2498	0.8702	1.5	0.9164	2.7989
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.8577	24.3078	100.4%	24.7705	24.8878	24.8070	101.3%	12.3316
2	11:15:28	24.7599	24.0656	98.0%	25.5217	25.7517	25.8556	100.2%	12.4106
3	11:16:35	25.3309	23.7879	98.9%	25.8014	26.1841	26.2320	98.9%	12.5662
X		24.9829	24.0538	99.1%	25.3646	25.6079	25.6316	100.1%	12.4361
$\sigma$		0.3054	0.2602	1.2%	0.5331	0.6600	0.7385	1.2%	0.1194
%RSD		1.2224	1.0816	1.2	2.1018	2.5774	2.8810	1.2	0.9598
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	12.4009	12.6790	13.1087	12.9239	102.1%	21.4028	25.1805	25.1534
2	11:15:28	12.3984	12.6437	13.0820	12.8453	102.7%	21.5187	25.5607	25.0426
3	11:16:35	12.4551	12.6753	13.2106	12.9330	103.1%	21.3645	25.3809	25.1085
X		12.4181	12.6660	13.1337	12.9007	102.6%	21.4287	25.3740	25.1015
$\sigma$		0.0320	0.0194	0.0679	0.0482	0.5%	0.0803	0.1902	0.0557
%RSD		0.2579	0.1533	0.5166	0.3739	0.5	0.3747	0.7495	0.2219
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:21	24.8229	24.5026	100.5267	100.6821	102.8235	101.0%	25.0916	25.1144
2	11:15:28	24.8268	24.3626	100.8182	101.2055	103.2853	103.0%	24.8831	25.0193
3	11:16:35	25.0796	24.4914	100.3048	101.6209	103.5286	103.7%	25.0541	25.1576
X		24.9097	24.4522	100.5499	101.1695	103.2125	102.6%	25.0096	25.0971
$\sigma$		0.1471	0.0778	0.2575	0.4705	0.3581	1.4%	0.1112	0.0708
%RSD		0.5905	0.3183	0.2561	0.4650	0.3470	1.4	0.4445	0.2820
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:14:21	25.9122	24.6667	25.0302	26.1424	100.1%	25.6523		
2	11:15:28	25.6816	24.7265	25.0509	26.1315	103.4%	25.5260		
3	11:16:35	25.9391	24.8617	25.1518	26.3434	104.3%	25.6679		
X		25.8443	24.7516	25.0776	26.2058	102.6%	25.6154		
$\sigma$		0.1415	0.0999	0.0651	0.1193	2.2%	0.0778		
%RSD		0.5475	0.4036	0.2594	0.4554	2.2	0.3037		



CCV1 11/9/2010 11:24:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	101.6%	25.6529	26.7798	25.2571	25.4126	35.6273	25.1069	24.8151
2	11:25:56	99.5%	24.8505	24.8258	24.7765	24.5454	25.0384	25.7276	24.7742
3	11:27:03	95.7%	26.1246	26.6295	26.3010	25.1767	43.6651	23.5446	25.2525
x		98.9%	25.5427	26.0784	25.4449	25.0449	34.7769	24.7931	24.9473
σ		3.0%	0.6442	1.0873	0.7794	0.4484	9.3424	1.1249	0.2651
%RSD		3.0	2.5221	4.1694	3.0630	1.7902	26.8637	4.5370	1.0627
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.7723	24.9209	25.1302	25.0540	25.1146	25.6030	26.2010	24.9075
2	11:25:56	24.1441	24.3656	24.8671	24.5361	24.5583	24.9674	24.7208	24.2169
3	11:27:03	25.1864	25.3589	25.6003	25.3057	25.1061	25.3361	24.0224	24.8296
x		24.7010	24.8818	25.1992	24.9653	24.9263	25.3021	24.9814	24.6513
σ		0.5248	0.4978	0.3714	0.3924	0.3187	0.3191	1.1124	0.3782
%RSD		2.1246	2.0008	1.4739	1.5719	1.2787	1.2612	4.4531	1.5343
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	25.1676	25.9737	25.0006	26.1976	25.0187	99.6%	24.9365	25.6424
2	11:25:56	24.6948	24.8294	24.9025	25.1124	24.4524	99.2%	24.9991	23.4622
3	11:27:03	25.0689	25.4560	25.2608	24.9799	25.6307	97.7%	25.4535	25.4935
x		24.9771	25.4197	25.0546	25.4300	25.0339	98.8%	25.1297	24.8661
σ		0.2494	0.5730	0.1852	0.6681	0.5893	1.0%	0.2821	1.2180
%RSD		0.9985	2.2540	0.7392	2.6270	2.3541	1.0	1.1226	4.8984
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.3142	23.9810	101.3%	24.4141	24.5831	24.7540	101.6%	24.7509
2	11:25:56	24.0112	24.3434	100.2%	24.9409	25.0372	25.0130	100.5%	24.6743
3	11:27:03	26.1705	25.1425	97.4%	25.3124	25.7121	25.6960	99.8%	25.6050
x		24.8320	24.4890	99.6%	24.8891	25.1108	25.1543	100.6%	25.0101
σ		1.1690	0.5943	2.0%	0.4513	0.5681	0.4867	0.9%	0.5166
%RSD		4.7078	2.4268	2.0	1.8134	2.2622	1.9347	0.9	2.0657
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.6214	24.5102	24.3926	24.7819	101.6%	24.7676	25.0594	24.6465
2	11:25:56	24.6136	24.6045	24.3715	24.4662	104.3%	24.4357	24.7512	24.5205
3	11:27:03	25.3275	25.3375	24.9811	25.2355	101.8%	25.0534	25.2778	25.1879
x		24.8542	24.8174	24.5817	24.8279	102.6%	24.7522	25.0295	24.7850
σ		0.4100	0.4529	0.3460	0.3867	1.5%	0.3091	0.2645	0.3546
%RSD		1.6495	1.8248	1.4075	1.5576	1.5	1.2489	1.0569	1.4308
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:24:49	24.9369	24.9876	24.6998	24.8294	24.9960	99.5%	24.9421	24.9631
2	11:25:56	24.6465	24.3365	24.5070	24.5424	24.3951	103.8%	24.5956	24.7222
3	11:27:03	25.3467	25.3378	24.8646	24.9090	25.0729	102.5%	25.1795	25.1465
x		24.9767	24.8873	24.6905	24.7602	24.8213	101.9%	24.9057	24.9439
σ		0.3518	0.5081	0.1790	0.1928	0.3711	2.2%	0.2936	0.2128
%RSD		1.4085	2.0417	0.7250	0.7786	1.4952	2.1	1.1790	0.8531
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:24:49	25.0946	24.9966	25.0529	25.0795	101.3%	24.9569		
2	11:25:56	24.5433	24.5549	24.5655	24.4747	104.8%	24.6315		
3	11:27:03	25.1688	25.0461	25.0537	25.1674	105.6%	24.9059		
x		24.9356	24.8659	24.8907	24.9072	103.9%	24.8314		
σ		0.3417	0.2704	0.2816	0.3771	2.3%	0.1750		
%RSD		1.3704	1.0876	1.1315	1.5140	2.2	0.7049		

ICB1 11/9/2010 11:45:44 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	99.7%	-0.0175	0.0090	-0.0897	-0.0142	-2.8693	0.0740	-0.0041
2	11:46:51	94.7%	0.0019	0.0248	-0.1255	-0.0146	16.7275	0.1283	-0.0141
3	11:47:58	93.4%	-0.0209	-0.1123	-0.1180	-0.0161	-4.2916	0.0039	-0.0020
x		95.9%	-0.0121	-0.0262	-0.1111	-0.0150	3.1889	0.0687	-0.0067
σ		3.3%	0.0123	0.0750	0.0189	0.0010	11.7463	0.0624	0.0065
%RSD		3.5	101.4573	286.6130	16.9827	6.5630	368.3551	90.7355	96.3015
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0177	0.0457	-0.0090	0.0009	-0.0101	0.0031	0.1714	0.0060
2	11:46:51	0.0051	0.0047	-0.0085	-0.0031	-0.0086	0.0036	0.1321	0.0378
3	11:47:58	-0.0105	-0.0283	0.0032	-0.0019	-0.0048	-0.0072	0.0987	0.0254
x		0.0041	0.0073	-0.0048	-0.0014	-0.0078	-0.0001	0.1341	0.0231
σ		0.0141	0.0371	0.0069	0.0021	0.0027	0.0061	0.0364	0.0160
%RSD		345.0629	504.4345	145.4518	148.7789	34.9143	4394.4385	27.1460	69.3472
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	-0.0098	0.0040	0.0066	0.0037	0.0045	96.7%	0.0933	-0.0953
2	11:46:51	-0.0067	0.0023	-0.0043	-0.0122	0.0284	94.8%	-0.0746	-0.0537
3	11:47:58	-0.0094	0.0074	-0.0019	-0.0123	0.0032	95.7%	-0.0664	0.0641
x		-0.0087	0.0046	0.0001	-0.0069	0.0120	95.8%	-0.0159	-0.0283
σ		0.0017	0.0026	0.0058	0.0092	0.0142	1.0%	0.0946	0.0827
%RSD		19.6298	56.6319	4587.4133	132.8041	117.7817	1.0	595.1045	292.3492
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	-0.0570	0.2491	97.0%	0.0059	0.0065	0.0149	99.1%	0.0025
2	11:46:51	0.4557	-0.3223	96.8%	0.0161	0.0246	0.0142	95.9%	0.0003
3	11:47:58	0.4076	-0.1836	95.3%	-0.0018	0.0087	0.0083	97.2%	-0.0005
x		0.2688	-0.0856	96.4%	0.0067	0.0132	0.0124	97.4%	0.0008
σ		0.2831	0.2980	0.9%	0.0090	0.0099	0.0036	1.6%	0.0016
%RSD		105.3455	348.1711	0.9	133.0539	74.7655	29.1013	1.7	210.0067
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0013	0.0028	-0.0019	-0.0010	98.4%	0.0350	-0.0078	0.0043
2	11:46:51	-0.0004	-0.0006	-0.0047	0.0001	97.5%	0.0125	0.0225	0.0128
3	11:47:58	0.0012	0.0003	-0.0004	-0.0020	97.1%	-0.0105	-0.0030	-0.0090
x		0.0007	0.0009	-0.0023	-0.0010	97.7%	0.0124	0.0039	0.0027
σ		0.0010	0.0018	0.0022	0.0010	0.7%	0.0228	0.0163	0.0110
%RSD		143.0237	205.0818	92.0070	104.3122	0.7	184.3778	414.1753	402.2253
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:45:44	0.0013	0.0024	-0.0138	-0.0041	-0.0051	97.4%	-0.0055	-0.0057
2	11:46:51	0.0015	0.0015	-0.0161	-0.0092	-0.0065	99.0%	-0.0077	-0.0067
3	11:47:58	0.0003	0.0006	-0.0149	-0.0079	-0.0082	99.4%	-0.0079	-0.0059
x		0.0010	0.0015	-0.0149	-0.0070	-0.0066	98.6%	-0.0070	-0.0061
σ		0.0007	0.0009	0.0011	0.0026	0.0015	1.1%	0.0013	0.0005
%RSD		63.0448	61.2364	7.5394	37.6838	23.4963	1.1	19.0402	8.6364
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:45:44	-0.0023	-0.0064	-0.0047	-0.0093	97.9%	-0.0061		
2	11:46:51	-0.0028	-0.0075	-0.0070	-0.0103	100.4%	-0.0061		
3	11:47:58	-0.0070	-0.0046	-0.0060	-0.0109	100.6%	-0.0071		
x		-0.0040	-0.0062	-0.0059	-0.0102	99.6%	-0.0064		
σ		0.0026	0.0015	0.0012	0.0008	1.5%	0.0006		
%RSD		63.5088	23.6127	19.8621	7.6527	1.5	9.2337		

CCB1 11/9/2010 11:52:04 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	102.2%	-0.0088	0.0451	-0.0409	-0.0088	2.5270	-0.0030	-0.0005
2	11:53:11	97.8%	-0.0100	0.0597	-0.0314	0.0077	5.5695	0.0610	-0.0171
3	11:54:19	95.0%	0.0019	-0.0226	-0.0854	-0.0189	5.9448	0.0034	-0.0142
X		98.3%	-0.0056	0.0274	-0.0526	-0.0067	4.6804	0.0205	-0.0106
σ		3.6%	0.0065	0.0439	0.0288	0.0134	1.8744	0.0353	0.0089
%RSD		3.7	115.5996	160.1892	54.8424	200.9783	40.0471	172.3538	83.9788
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0095	0.0139	-0.0148	0.0001	-0.0050	-0.0022	0.1665	0.0542
2	11:53:11	-0.0017	-0.0128	-0.0031	-0.0008	-0.0092	-0.0034	-0.1118	0.0584
3	11:54:19	0.0013	-0.0017	-0.0056	-0.0036	-0.0076	-0.0005	0.0999	-0.0013
X		0.0030	-0.0002	-0.0079	-0.0015	-0.0072	-0.0020	0.0515	0.0371
σ		0.0058	0.0134	0.0062	0.0019	0.0021	0.0015	0.1453	0.0333
%RSD		190.3523	7059.4442	78.8336	131.7255	29.1643	72.1258	281.9150	89.8391
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0025	-0.0023	-0.0038	-0.0045	0.0130	97.0%	0.1055	-0.0376
2	11:53:11	-0.0082	-0.0011	-0.0074	-0.0043	0.0012	96.4%	0.0633	-0.0560
3	11:54:19	-0.0114	0.0012	0.0100	0.0043	-0.0037	95.2%	-0.0057	-0.0146
X		-0.0057	-0.0007	-0.0004	-0.0015	0.0035	96.2%	0.0544	-0.0361
σ		0.0073	0.0018	0.0092	0.0050	0.0086	0.9%	0.0561	0.0207
%RSD		127.1196	249.1576	2235.8008	329.5765	246.9427	0.9	103.2501	57.5099
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	-0.0963	0.3592	97.2%	-0.0146	-0.0123	-0.0072	98.1%	0.0002
2	11:53:11	0.3331	0.1803	96.9%	-0.0125	-0.0179	-0.0116	98.7%	-0.0012
3	11:54:19	-0.2778	-0.0427	96.3%	-0.0091	-0.0073	-0.0084	96.8%	-0.0002
X		-0.0137	0.1656	96.8%	-0.0121	-0.0125	-0.0090	97.9%	-0.0004
σ		0.3137	0.2014	0.5%	0.0027	0.0053	0.0023	1.0%	0.0007
%RSD		2295.9633	121.6124	0.5	22.7551	42.4858	25.2527	1.0	196.8591
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0006	0.0012	0.0029	0.0015	97.2%	0.0345	0.0157	0.0184
2	11:53:11	0.0013	0.0011	-0.0023	0.0000	98.3%	-0.0160	0.0146	0.0124
3	11:54:19	-0.0001	0.0011	-0.0035	-0.0017	98.5%	-0.0057	-0.0069	-0.0191
X		0.0006	0.0011	-0.0010	-0.0001	98.0%	0.0043	0.0078	0.0039
σ		0.0007	0.0000	0.0034	0.0016	0.7%	0.0267	0.0127	0.0201
%RSD		114.8720	0.7139	352.1248	1930.8031	0.7	625.8048	162.8565	515.6649
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:52:04	0.0003	0.0003	-0.0013	-0.0078	-0.0108	97.8%	-0.0091	-0.0074
2	11:53:11	-0.0005	-0.0016	-0.0094	-0.0048	-0.0088	98.8%	-0.0085	-0.0080
3	11:54:19	0.0003	0.0012	-0.0150	-0.0099	-0.0094	99.5%	-0.0079	-0.0062
X		0.0000	-0.0001	-0.0085	-0.0075	-0.0097	98.7%	-0.0085	-0.0072
σ		0.0004	0.0014	0.0069	0.0026	0.0010	0.8%	0.0006	0.0009
%RSD		1237.3150	2275.6758	80.9630	34.3543	10.6198	0.9	7.0505	12.8784
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:52:04	-0.0014	-0.0060	-0.0055	-0.0133	97.1%	-0.0063		
2	11:53:11	-0.0042	-0.0047	-0.0052	-0.0124	100.3%	-0.0067		
3	11:54:19	-0.0056	-0.0069	-0.0054	-0.0127	100.2%	-0.0081		
X		-0.0037	-0.0059	-0.0054	-0.0128	99.2%	-0.0070		
σ		0.0021	0.0011	0.0001	0.0004	1.8%	0.0010		
%RSD		57.1999	18.6676	2.4780	3.4410	1.8	13.8698		

CRA 11/9/2010 11:57:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	103.8%	0.0101	0.6984	0.3642	1.9650	1.5931	0.1283	0.0867
2	11:58:32	95.1%	0.0246	0.5087	0.3966	2.0361	17.2366	0.0035	0.1071
3	11:59:39	95.2%	0.0113	0.3692	0.4546	1.9815	-4.6666	0.2026	0.0942
X		98.0%	0.0153	0.5255	0.4051	1.9942	4.7210	0.1115	0.0960
σ		5.0%	0.0081	0.1652	0.0458	0.0372	11.2817	0.1006	0.0103
%RSD		5.1	52.4645	31.4442	11.3004	1.8658	238.9651	90.2627	10.7410
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.2062	0.2379	0.2025	0.0499	0.0089	0.1883	0.4438	0.1895
2	11:58:32	0.1942	0.2176	0.2183	0.0560	0.0137	0.2240	0.0422	0.2083
3	11:59:39	0.1892	0.2090	0.2343	0.0586	0.0065	0.1875	0.2986	0.2351
X		0.1965	0.2215	0.2184	0.0548	0.0097	0.1999	0.2615	0.2109
σ		0.0088	0.0149	0.0159	0.0045	0.0037	0.0208	0.2033	0.0229
%RSD		4.4565	6.7071	7.2761	8.1398	37.6679	10.4097	77.7427	10.8585
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.1022	0.0899	0.4563	0.4057	0.5213	97.5%	0.5754	0.9290
2	11:58:32	0.1051	0.0974	0.4449	0.5261	0.5211	95.1%	0.4494	1.0878
3	11:59:39	0.0894	0.0923	0.5076	0.4559	0.4674	95.9%	0.5572	0.9872
X		0.0989	0.0932	0.4696	0.4626	0.5033	96.2%	0.5273	1.0013
σ		0.0084	0.0038	0.0334	0.0605	0.0311	1.2%	0.0681	0.0803
%RSD		8.4654	4.1129	7.1096	13.0823	6.1787	1.3	12.9169	8.0238
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	1.0144	1.0510	96.8%	0.0383	0.0338	0.0318	98.0%	0.0210
2	11:58:32	1.4195	0.6707	96.6%	0.0217	0.0436	0.0335	96.7%	0.0204
3	11:59:39	0.7232	1.0105	95.4%	0.0335	0.0425	0.0221	97.4%	0.0207
X		1.0524	0.9107	96.3%	0.0312	0.0399	0.0292	97.4%	0.0207
σ		0.3497	0.2088	0.7%	0.0085	0.0054	0.0062	0.7%	0.0003
%RSD		33.2291	22.9297	0.8	27.3837	13.4536	21.0926	0.7	1.3833
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.0224	0.0140	0.0308	0.0288	97.2%	0.1179	0.2038	0.1856
2	11:58:32	0.0211	0.0175	0.0233	0.0260	97.2%	0.1090	0.1792	0.1692
3	11:59:39	0.0241	0.0192	0.0357	0.0236	96.9%	0.0749	0.1720	0.1512
X		0.0225	0.0169	0.0300	0.0262	97.1%	0.1006	0.1850	0.1687
σ		0.0015	0.0027	0.0062	0.0026	0.1%	0.0227	0.0167	0.0172
%RSD		6.7699	15.7105	20.7257	9.9008	0.1	22.5942	9.0104	10.2240
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:57:24	0.0617	0.0655	0.0443	0.0537	0.0385	97.7%	0.0166	0.0125
2	11:58:32	0.0595	0.0570	0.0414	0.0505	0.0453	100.1%	0.0166	0.0152
3	11:59:39	0.0644	0.0664	0.0530	0.0495	0.0424	99.6%	0.0150	0.0128
X		0.0619	0.0629	0.0462	0.0512	0.0420	99.1%	0.0161	0.0135
σ		0.0025	0.0052	0.0060	0.0022	0.0034	1.3%	0.0009	0.0015
%RSD		3.9954	8.2241	12.9969	4.3238	8.2038	1.3	5.7324	10.9373
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	11:57:24	0.0124	0.0156	0.0123	0.0342	98.0%	0.0114		
2	11:58:32	0.0172	0.0153	0.0149	0.0360	100.7%	0.0128		
3	11:59:39	0.0152	0.0094	0.0130	0.0392	101.3%	0.0123		
X		0.0150	0.0134	0.0134	0.0364	100.0%	0.0122		
σ		0.0024	0.0035	0.0014	0.0025	1.8%	0.0007		
%RSD		15.9174	25.8343	10.1861	6.9306	1.8	5.8379		

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K1011605-MB 11/9/2010 12:07:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	99.2%	-0.0156	-0.0559	-0.1625	0.0579	5.6565	-0.0007	-0.0080
2	12:08:47	95.2%	-0.0134	-0.0462	-0.1813	0.0640	12.2964	-0.1047	-0.0033
3	12:09:55	94.2%	-0.0132	-0.0903	-0.0785	0.0561	14.5229	-0.0582	-0.0020
x		96.2%	-0.0141	-0.0641	-0.1408	0.0593	10.8253	-0.0545	-0.0044
σ		2.6%	0.0013	0.0231	0.0548	0.0041	4.6126	0.0521	0.0031
%RSD		2.7	9.5271	36.0941	38.8979	6.9699	42.6098	95.4442	70.6784
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0087	0.0166	-0.0090	0.0066	-0.0119	-0.0047	0.2018	0.0303
2	12:08:47	0.0022	-0.0040	-0.0144	0.0089	-0.0066	0.0050	0.3974	0.0229
3	12:09:55	-0.0055	-0.0171	-0.0027	0.0056	-0.0048	0.0009	0.1873	0.0688
x		0.0018	-0.0015	-0.0087	0.0070	-0.0078	0.0004	0.2622	0.0406
σ		0.0071	0.0170	0.0059	0.0017	0.0037	0.0049	0.1174	0.0247
%RSD		387.1411	1143.9763	67.7647	24.3212	47.9396	1257.5171	44.7602	60.6727
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0058	0.0040	0.0751	0.0200	0.0586	96.6%	0.0201	-0.0373
2	12:08:47	-0.0077	0.0202	0.0697	0.0461	0.0820	94.6%	0.0616	-0.0120
3	12:09:55	0.0105	0.0241	0.0611	0.1116	0.0970	95.4%	0.0383	-0.0739
x		0.0029	0.0161	0.0686	0.0593	0.0792	95.5%	0.0400	-0.0411
σ		0.0094	0.0107	0.0071	0.0472	0.0194	1.0%	0.0208	0.0311
%RSD		330.3909	66.2239	10.3527	79.6224	24.4299	1.1	52.0858	75.7439
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.1349	0.0412	97.7%	-0.0395	-0.0391	-0.0339	97.7%	0.0000
2	12:08:47	0.4939	0.2122	94.6%	-0.0284	-0.0310	-0.0284	97.4%	-0.0002
3	12:09:55	-0.0310	0.0694	96.3%	-0.0329	-0.0299	-0.0337	96.5%	-0.0011
x		0.1992	0.1076	96.2%	-0.0336	-0.0333	-0.0320	97.2%	-0.0004
σ		0.2683	0.0917	1.6%	0.0056	0.0050	0.0031	0.7%	0.0006
%RSD		134.6674	85.2183	1.6	16.6584	15.0877	9.7086	0.7	148.8994
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	-0.0007	0.0020	-0.0035	0.0007	97.8%	-0.0048	0.0038	0.0050
2	12:08:47	0.0016	0.0012	-0.0030	-0.0010	97.3%	-0.0083	0.0073	-0.0111
3	12:09:55	0.0010	-0.0006	-0.0055	-0.0031	97.0%	-0.0480	-0.0255	-0.0242
x		0.0006	0.0009	-0.0040	-0.0011	97.4%	-0.0203	-0.0048	-0.0101
σ		0.0012	0.0013	0.0013	0.0019	0.4%	0.0240	0.0180	0.0146
%RSD		184.6547	150.2450	33.1870	172.6959	0.4	117.9411	374.4972	144.4207
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:07:40	0.0005	-0.0007	-0.0127	-0.0098	-0.0117	98.7%	-0.0099	-0.0082
2	12:08:47	0.0008	-0.0007	-0.0082	-0.0072	-0.0083	99.0%	-0.0081	-0.0092
3	12:09:55	0.0000	-0.0016	-0.0104	-0.0091	-0.0109	98.9%	-0.0081	-0.0097
x		0.0005	-0.0010	-0.0104	-0.0087	-0.0103	98.8%	-0.0087	-0.0090
σ		0.0004	0.0005	0.0023	0.0013	0.0018	0.2%	0.0010	0.0008
%RSD		82.2557	54.4231	21.8372	15.2532	17.4621	0.2	11.4085	8.6650
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:07:40	-0.0038	-0.0061	-0.0058	-0.0163	97.9%	-0.0092		
2	12:08:47	-0.0042	-0.0065	-0.0069	-0.0150	100.2%	-0.0090		
3	12:09:55	-0.0069	-0.0061	-0.0070	-0.0155	100.6%	-0.0092		
x		-0.0050	-0.0062	-0.0066	-0.0156	99.6%	-0.0091		
σ		0.0017	0.0002	0.0007	0.0006	1.5%	0.0001		
%RSD		34.5626	3.4684	10.5271	4.1474	1.5	1.3896		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	99.3%	20.4936	19.9168	21.0550	20.3920	22.9284	21.8217	21.1065
2	12:13:51	94.9%	20.9792	21.2576	21.7927	20.2438	23.9399	21.9168	20.7405
3	12:14:58	93.5%	20.4437	21.9767	21.1902	20.2602	27.7806	21.4492	20.7221
x		95.9%	20.6388	21.0504	21.3460	20.2987	24.8830	21.7292	20.8563
σ		3.0%	0.2958	1.0455	0.3927	0.0813	2.5599	0.2472	0.2168
%RSD		3.1	1.4331	4.9665	1.8399	0.4003	10.2878	1.1375	1.0395
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.2007	20.2982	20.1697	20.0376	20.0198	20.1674	20.3166	19.9154
2	12:13:51	19.6478	19.9108	19.8763	20.1091	19.9991	20.3223	19.4185	19.8726
3	12:14:58	19.8660	20.2061	20.9196	20.1819	19.9826	20.4767	19.9321	19.8641
x		19.9048	20.1384	20.3219	20.1096	20.0005	20.3221	19.8891	19.8840
σ		0.2785	0.2024	0.5380	0.0722	0.0187	0.1546	0.4506	0.0275
%RSD		1.3993	1.0049	2.6475	0.3588	0.0933	0.7608	2.2654	0.1385
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.3008	20.5027	20.4013	20.8140	20.1275	97.1%	19.2563	19.2836
2	12:13:51	19.9448	20.3891	20.4873	20.1162	20.7768	94.8%	19.9389	19.5994
3	12:14:58	20.3446	20.5832	21.0634	21.2579	20.8366	93.7%	19.5421	20.4568
x		20.1967	20.4917	20.6507	20.7294	20.5803	95.2%	19.5791	19.7799
σ		0.2193	0.0975	0.3600	0.5755	0.3933	1.7%	0.3428	0.6071
%RSD		1.0858	0.4758	1.7434	2.7765	1.9109	1.8	1.7507	3.0690
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	19.5525	18.6523	97.7%	19.8173	19.9614	19.7756	98.2%	20.1766
2	12:13:51	19.1238	19.8951	97.0%	20.1145	20.1078	20.3789	97.9%	20.3107
3	12:14:58	19.5320	19.2929	96.4%	20.3156	20.7239	20.6140	97.8%	20.3959
x		19.4028	19.2801	97.0%	20.0824	20.2644	20.2562	98.0%	20.2944
σ		0.2418	0.6215	0.7%	0.2507	0.4046	0.4325	0.2%	0.1105
%RSD		1.2464	3.2234	0.7	1.2483	1.9967	2.1349	0.2	0.5446
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.1480	20.0420	20.0370	19.9876	99.0%	20.3040	20.6235	20.5100
2	12:13:51	20.2495	20.3390	20.0406	19.9793	99.3%	20.2706	20.5558	20.6525
3	12:14:58	20.2596	20.1721	20.0930	20.1393	99.7%	20.2956	20.6107	20.4926
x		20.2191	20.1844	20.0568	20.0354	99.3%	20.2901	20.5967	20.5517
σ		0.0617	0.1489	0.0314	0.0901	0.4%	0.0174	0.0360	0.0877
%RSD		0.3052	0.7375	0.1564	0.4495	0.4	0.0856	0.1747	0.4269
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:12:43	20.1702	19.9479	19.9058	19.6493	19.9075	99.6%	19.9552	19.9078
2	12:13:51	20.0142	19.8456	20.1976	20.0018	20.0736	100.1%	20.0651	20.1003
3	12:14:58	20.2307	20.0677	19.8048	20.1513	19.8589	101.1%	20.2801	20.1599
x		20.1383	19.9537	19.9694	19.9341	19.9467	100.2%	20.1001	20.0560
σ		0.1117	0.1111	0.2039	0.2578	0.1126	0.8%	0.1653	0.1318
%RSD		0.5547	0.5570	1.0213	1.2931	0.5644	0.8	0.8222	0.6571
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:12:43	19.9262	19.8718	19.9149	20.5154	99.5%	20.0112		
2	12:13:51	20.0973	19.9628	20.0640	20.7925	102.5%	20.0558		
3	12:14:58	20.0079	19.9898	20.0259	20.7916	102.6%	20.2557		
x		20.0105	19.9415	20.0016	20.6999	101.5%	20.1075		
σ		0.0856	0.0618	0.0775	0.1597	1.7%	0.1302		
%RSD		0.4277	0.3101	0.3874	0.7716	1.7	0.6477		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	95.9%	-0.0153	3.5566	3.0367	59.7114	5.5789	2.9521	33.9667
2	12:24:19	89.8%	-0.0026	3.5142	3.3383	58.6057	8.1647	2.8164	34.1118
3	12:25:26	86.8%	0.0064	3.9946	3.6545	60.6659	3.0310	2.6008	35.1964
x		90.9%	-0.0039	3.6884	3.3431	59.6610	5.5915	2.7898	34.4250
σ		4.6%	0.0109	0.2659	0.3089	1.0310	2.5669	0.1771	0.6720
%RSD		5.1	283.2366	7.2102	9.2410	1.7281	45.9073	6.3494	1.9521
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.2993	0.3453	0.3598	2.2973	0.0153	0.2163	1.7246	0.1978
2	12:24:19	0.2984	0.3411	0.3056	2.2346	0.0212	0.2618	1.4277	0.2258
3	12:25:26	0.3006	0.3518	0.3600	2.3261	0.0205	0.2556	1.4657	0.2154
x		0.2994	0.3461	0.3418	2.2860	0.0190	0.2446	1.5393	0.2130
σ		0.0011	0.0054	0.0314	0.0468	0.0032	0.0247	0.1616	0.0141
%RSD		0.3731	1.5524	9.1835	2.0464	17.0637	10.0897	10.4956	6.6291
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.7244	0.7044	0.4180	0.7677	0.7193	92.8%	0.6222	0.0326
2	12:24:19	0.7275	0.7182	0.4746	0.8328	0.8211	90.5%	0.5475	0.0384
3	12:25:26	0.7715	0.7378	0.4708	0.9183	0.8051	89.1%	0.5672	-0.0826
x		0.7411	0.7201	0.4545	0.8396	0.7818	90.8%	0.5790	-0.0039
σ		0.0263	0.0168	0.0316	0.0755	0.0547	1.8%	0.0387	0.0682
%RSD		3.5499	2.3362	6.9617	8.9925	7.0000	2.0	6.6865	1769.4264
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	-0.3919	0.3594	93.3%	1.2652	1.2742	1.2398	93.4%	0.0006
2	12:24:19	-0.6925	0.1449	92.2%	1.2841	1.3452	1.3002	91.8%	0.0026
3	12:25:26	-0.1873	0.2817	90.2%	1.2858	1.3001	1.3607	90.2%	-0.0014
x		-0.4239	0.2620	91.9%	1.2783	1.3065	1.3002	91.8%	0.0006
σ		0.2541	0.1086	1.6%	0.0114	0.0360	0.0604	1.6%	0.0020
%RSD		59.9415	41.4390	1.7	0.8947	2.7527	4.6467	1.8	323.3393
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.0009	0.0075	0.0040	0.0029	93.9%	0.0033	0.0009	0.0135
2	12:24:19	0.0029	0.0021	0.0055	0.0051	93.3%	-0.0103	0.0105	-0.0091
3	12:25:26	0.0008	0.0067	0.0037	0.0044	93.7%	-0.0206	-0.0122	-0.0272
x		0.0015	0.0054	0.0044	0.0041	93.6%	-0.0092	-0.0003	-0.0076
σ		0.0012	0.0029	0.0009	0.0012	0.3%	0.0120	0.0114	0.0204
%RSD		77.4481	52.8972	21.5520	27.9117	0.3	130.8780	4254.3983	268.2574
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:11	0.0467	0.0427	9.5896	9.5447	9.6507	96.7%	-0.0034	-0.0059
2	12:24:19	0.0441	0.0416	9.5242	9.8204	9.6840	97.2%	-0.0027	-0.0039
3	12:25:26	0.0459	0.0427	9.6745	9.7166	9.6083	97.4%	-0.0036	-0.0017
x		0.0455	0.0423	9.5961	9.6939	9.6476	97.1%	-0.0032	-0.0038
σ		0.0013	0.0006	0.0754	0.1392	0.0379	0.3%	0.0005	0.0021
%RSD		2.9494	1.5171	0.7855	1.4362	0.3933	0.4	14.0010	54.6170
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:23:11	0.0288	0.0230	0.0226	-0.0152	97.5%	0.0981		
2	12:24:19	0.0295	0.0250	0.0234	-0.0126	99.8%	0.0957		
3	12:25:26	0.0246	0.0235	0.0240	-0.0156	99.8%	0.0981		
x		0.0276	0.0239	0.0234	-0.0145	99.0%	0.0973		
σ		0.0027	0.0010	0.0007	0.0016	1.3%	0.0014		
%RSD		9.6568	4.1912	2.9810	11.0151	1.4	1.4180		

K1011605-001S 11/9/2010 12:32:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	96.8%	21.3724	24.3139	24.7675	79.0436	25.7506	24.7217	55.5704
2	12:33:13	91.0%	20.9743	26.5607	24.4892	80.0829	29.1961	25.4116	55.4388
3	12:34:20	89.9%	21.0325	26.4122	25.7523	78.3148	36.5089	25.1214	55.6169
x		92.6%	21.1264	25.7622	25.0030	79.1471	30.4852	25.0849	55.5421
σ		3.7%	0.2150	1.2565	0.6637	0.8885	5.4938	0.3464	0.0924
%RSD		4.0	1.0179	4.8775	2.6544	1.1226	18.0213	1.3810	0.1663
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	19.9936	20.4708	20.8385	22.4533	20.0427	20.5671	21.7626	20.3645
2	12:33:13	20.0024	20.0911	19.9306	22.5857	20.0246	20.4952	20.7481	19.8451
3	12:34:20	19.7374	19.8092	20.3185	22.3098	19.8907	20.1904	21.8072	19.5786
x		19.9111	20.1237	20.3625	22.4496	19.9860	20.4176	21.4393	19.9294
σ		0.1506	0.3320	0.4555	0.1380	0.0830	0.2000	0.5990	0.3997
%RSD		0.7561	1.6498	2.2370	0.6148	0.4155	0.9795	2.7939	2.0054
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.8215	21.0920	21.1260	21.0882	21.1408	92.6%	21.0765	20.3030
2	12:33:13	20.6994	20.7347	21.1736	21.7307	21.0415	90.2%	21.1936	19.0519
3	12:34:20	20.7871	20.6612	20.6867	22.1116	20.9998	90.7%	20.9653	20.4310
x		20.7693	20.8293	20.9954	21.6435	21.0607	91.2%	21.0785	19.9286
σ		0.0630	0.2305	0.2684	0.5172	0.0725	1.3%	0.1141	0.7620
%RSD		0.3032	1.1066	1.2786	2.3898	0.3441	1.4	0.5414	3.8235
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	19.8250	20.0262	93.0%	21.6041	21.4821	21.2492	94.5%	20.4128
2	12:33:13	20.4609	19.6991	91.8%	21.3686	22.0647	21.8174	92.9%	20.3274
3	12:34:20	19.2711	19.9367	91.6%	21.6584	21.9086	21.9580	92.6%	20.4583
x		19.8523	19.8873	92.1%	21.5437	21.8184	21.6749	93.3%	20.3995
σ		0.5954	0.1690	0.8%	0.1541	0.3016	0.3753	1.1%	0.0664
%RSD		2.9991	0.8499	0.8	0.7153	1.3822	1.7313	1.1	0.3257
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.3324	20.3427	20.3292	20.4139	95.0%	20.7423	20.9531	21.1699
2	12:33:13	20.3437	20.1172	20.3369	20.3751	94.9%	20.8218	21.1276	20.9371
3	12:34:20	20.2680	20.4035	20.4517	20.5183	94.6%	20.8823	21.2377	21.1103
x		20.3147	20.2878	20.3726	20.4358	94.8%	20.8155	21.1061	21.0724
σ		0.0409	0.1508	0.0686	0.0741	0.2%	0.0702	0.1435	0.1209
%RSD		0.2011	0.7435	0.3366	0.3624	0.2	0.3373	0.6798	0.5739
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:32:06	20.5302	20.3987	29.8646	30.1116	29.9771	97.0%	20.0660	20.1713
2	12:33:13	20.3088	20.2862	29.8733	29.6291	29.8878	98.4%	20.0265	20.0692
3	12:34:20	20.6418	20.4239	29.9489	29.7881	30.0398	97.9%	20.1887	20.2686
x		20.4936	20.3696	29.8956	29.8429	29.9682	97.8%	20.0938	20.1697
σ		0.1695	0.0733	0.0464	0.2459	0.0764	0.7%	0.0846	0.0997
%RSD		0.8269	0.3598	0.1551	0.8238	0.2549	0.7	0.4208	0.4943
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:32:06	20.2073	20.1435	20.1813	21.1513	98.8%	20.3862		
2	12:33:13	20.0037	19.9279	19.9621	20.9817	101.1%	20.3372		
3	12:34:20	20.1220	20.2533	20.1792	21.2337	101.3%	20.4590		
x		20.1110	20.1082	20.1075	21.1222	100.4%	20.3941		
σ		0.1023	0.1655	0.1259	0.1285	1.4%	0.0613		
%RSD		0.5085	0.8231	0.6262	0.6083	1.4	0.3006		



K1011605-001SD 11/9/2010 12:42:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	95.0%	20.5916	23.4675	23.7837	82.8069	31.1677	23.8772	56.3397
2	12:43:41	88.8%	20.8251	26.2874	24.6336	83.9024	24.0889	23.0311	56.2738
3	12:44:48	87.6%	20.5191	24.8687	25.1484	80.2710	28.3664	24.1226	54.0948
x		90.4%	20.6453	24.8745	24.5219	82.3268	27.8743	23.6770	55.5694
σ		4.0%	0.1599	1.4099	0.6892	1.8627	3.5650	0.5726	1.2775
%RSD		4.4	0.7744	5.6682	2.8104	2.2625	12.7894	2.4184	2.2989
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.2531	20.3799	20.3607	22.3682	19.9322	20.8610	22.6318	20.6190
2	12:43:41	19.8551	19.7230	19.6551	22.4733	19.5838	20.7785	21.5734	20.2784
3	12:44:48	19.5626	19.6401	20.1838	22.0517	19.1505	20.2444	21.4579	20.0206
x		19.8902	19.9143	20.0665	22.2977	19.5555	20.6280	21.8877	20.3060
σ		0.3466	0.4053	0.3671	0.2195	0.3916	0.3347	0.6470	0.3002
%RSD		1.7425	2.0354	1.8293	0.9844	2.0024	1.6227	2.9560	1.4782
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	21.0371	21.3217	22.2549	22.5151	22.4711	90.4%	20.9251	20.2172
2	12:43:41	20.8305	20.9525	22.4320	21.4176	22.6224	88.2%	20.5182	20.8972
3	12:44:48	20.2689	20.1647	21.9137	22.1302	22.3675	88.9%	20.6189	19.6088
x		20.7122	20.8130	22.2002	22.0210	22.4870	89.1%	20.6874	20.2411
σ		0.3976	0.5910	0.2634	0.5569	0.1282	1.1%	0.2119	0.6445
%RSD		1.9195	2.8395	1.1866	2.5288	0.5701	1.3	1.0243	3.1843
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	18.7332	20.4004	91.7%	21.4594	21.6188	21.3915	93.2%	20.4745
2	12:43:41	19.6798	19.1758	91.5%	21.2562	21.5810	21.5646	92.0%	20.2783
3	12:44:48	18.7538	19.9887	89.9%	22.0840	22.4526	22.1119	90.1%	20.2965
x		19.0556	19.8550	91.1%	21.5999	21.8841	21.6894	91.7%	20.3498
σ		0.5407	0.6231	1.0%	0.4314	0.4926	0.3760	1.6%	0.1084
%RSD		2.8375	3.1385	1.1	1.9973	2.2511	1.7338	1.7	0.5327
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.2310	20.3301	20.1908	20.2962	94.3%	20.7820	20.9554	20.9913
2	12:43:41	20.0298	20.2235	20.1904	20.2184	93.7%	20.5211	20.6740	20.7234
3	12:44:48	20.0852	20.1615	20.2565	20.2762	93.9%	20.3630	20.5887	20.5480
x		20.1153	20.2384	20.2126	20.2636	94.0%	20.5554	20.7394	20.7542
σ		0.1039	0.0853	0.0381	0.0404	0.3%	0.2116	0.1919	0.2232
%RSD		0.5164	0.4215	0.1884	0.1994	0.3	1.0294	0.9254	1.0756
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:42:34	20.4619	20.3640	29.6701	29.8504	29.8542	96.7%	20.0160	20.1346
2	12:43:41	20.4272	20.3308	29.7982	29.7705	29.7941	98.5%	19.8751	19.8980
3	12:44:48	20.2825	20.3332	29.9420	29.8156	29.7092	98.3%	20.0072	20.0772
x		20.3905	20.3427	29.8034	29.8122	29.7858	97.8%	19.9661	20.0366
σ		0.0952	0.0185	0.1360	0.0400	0.0729	1.0%	0.0789	0.1234
%RSD		0.4667	0.0911	0.4564	0.1343	0.2446	1.0	0.3953	0.6159
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:42:34	20.0372	20.1610	20.1014	20.9398	98.8%	20.4068		
2	12:43:41	19.8669	20.0810	19.8900	20.5592	101.8%	20.0722		
3	12:44:48	19.9105	20.0688	19.9528	20.7352	101.8%	20.2541		
x		19.9382	20.1036	19.9814	20.7447	100.8%	20.2443		
σ		0.0885	0.0501	0.1086	0.1904	1.7%	0.1675		
%RSD		0.4437	0.2491	0.5433	0.9180	1.7	0.8274		

K1011605-001 DISS 11/9/2010 12:53:02 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	95.2%	-0.0152	3.6351	3.4356	19.2465	7.9801	0.8080	31.9795
2	12:54:09	90.9%	0.0011	3.5753	3.4250	18.6704	8.6052	0.9727	32.1305
3	12:55:16	88.0%	-0.0145	4.1940	3.7074	19.4944	5.1827	1.0895	33.6057
X		91.4%	-0.0095	3.8015	3.5227	19.1371	7.2560	0.9568	32.5719
σ		3.6%	0.0092	0.3413	0.1601	0.4228	1.8225	0.1414	0.8985
%RSD		4.0	96.8092	8.9774	4.5450	2.2091	25.1173	14.7814	2.7585
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.2258	0.1180	0.1083	0.7625	0.0004	0.1783	1.3526	0.1634
2	12:54:09	0.2355	0.1151	0.0778	0.7763	-0.0002	0.2114	1.9738	0.1455
3	12:55:16	0.2431	0.1472	0.0950	0.7804	0.0043	0.1814	1.0137	0.1769
X		0.2348	0.1267	0.0937	0.7731	0.0015	0.1904	1.4467	0.1619
σ		0.0087	0.0177	0.0153	0.0094	0.0024	0.0183	0.4870	0.0158
%RSD		3.6996	13.9997	16.3013	1.2152	162.0944	9.6048	33.6602	9.7281
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.7279	0.7629	2.0768	2.2829	2.2637	90.3%	0.4746	0.1245
2	12:54:09	0.7751	0.7831	1.9881	2.4160	2.2344	88.1%	0.5022	-0.0386
3	12:55:16	0.8082	0.7634	2.0089	2.5554	2.2001	87.8%	0.4271	0.0712
X		0.7704	0.7698	2.0246	2.4181	2.2327	88.7%	0.4680	0.0523
σ		0.0403	0.0115	0.0464	0.1363	0.0318	1.4%	0.0380	0.0831
%RSD		5.2359	1.4973	2.2908	5.6362	1.4245	1.6	8.1171	158.8577
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	-0.2688	0.2660	90.1%	1.3143	1.3155	1.3586	90.6%	0.0014
2	12:54:09	-0.2324	0.1332	89.8%	1.3258	1.3882	1.3347	91.1%	-0.0005
3	12:55:16	-0.5685	-0.0337	87.4%	1.3684	1.3645	1.3193	90.3%	-0.0001
X		-0.3566	0.1218	89.1%	1.3362	1.3561	1.3375	90.6%	0.0003
σ		0.1844	0.1501	1.5%	0.0285	0.0370	0.0198	0.4%	0.0010
%RSD		51.7242	123.2339	1.6	2.1322	2.7321	1.4831	0.4	373.0431
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.0006	0.0086	0.0044	0.0057	92.1%	0.0121	0.0411	0.0369
2	12:54:09	-0.0005	0.0086	0.0057	0.0068	91.8%	-0.0241	0.0104	0.0239
3	12:55:16	0.0015	0.0031	0.0028	0.0028	90.8%	-0.0206	0.0103	0.0081
X		0.0005	0.0067	0.0043	0.0051	91.6%	-0.0109	0.0206	0.0230
σ		0.0010	0.0031	0.0015	0.0020	0.7%	0.0200	0.0178	0.0144
%RSD		191.0444	46.4583	34.7243	40.1406	0.8	183.8014	86.3910	62.8034
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:53:02	0.0499	0.0432	8.9343	9.1634	8.9645	95.2%	-0.0061	-0.0046
2	12:54:09	0.0521	0.0436	9.1294	9.2498	9.0312	96.4%	-0.0042	-0.0063
3	12:55:16	0.0468	0.0451	9.3377	9.1827	9.1369	95.8%	-0.0050	-0.0072
X		0.0496	0.0439	9.1338	9.1986	9.0442	95.8%	-0.0051	-0.0060
σ		0.0027	0.0010	0.2017	0.0454	0.0869	0.6%	0.0010	0.0013
%RSD		5.3533	2.2643	2.2087	0.4931	0.9612	0.6	18.7764	22.0998
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:53:02	0.0125	0.0092	0.0102	-0.0147	96.5%	0.0860		
2	12:54:09	0.0135	0.0112	0.0098	-0.0153	99.3%	0.0888		
3	12:55:16	0.0120	0.0119	0.0131	-0.0155	99.2%	0.0880		
X		0.0126	0.0107	0.0110	-0.0152	98.3%	0.0876		
σ		0.0008	0.0014	0.0018	0.0004	1.6%	0.0015		
%RSD		6.0200	12.8929	16.0643	2.7083	1.6	1.6683		

K1011605-001 DISSS 11/9/2010 1:03:30 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	94.6%	20.7136	24.7209	25.1178	38.3158	30.3972	20.6478	52.5812
2	13:04:38	89.4%	20.7633	25.4588	25.2010	38.2387	23.1555	21.1600	53.5566
3	13:05:45	87.2%	20.9613	25.9174	26.3430	39.6327	27.0223	22.1210	54.4613
X		90.4%	20.8127	25.3657	25.5539	38.7291	26.8583	21.3096	53.5330
σ		3.8%	0.1311	0.6037	0.6846	0.7835	3.6236	0.7479	0.9402
%RSD		4.2	0.6297	2.3798	2.6791	2.0230	13.4916	3.5097	1.7564
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.0551	19.4207	20.1058	20.1943	19.3856	19.8968	21.4825	19.2180
2	13:04:38	19.4890	19.4946	19.8775	20.6489	19.6208	20.2112	24.5161	19.2525
3	13:05:45	20.1282	19.8816	20.0079	21.2763	19.9360	20.5789	21.8634	19.8319
X		19.5574	19.5990	19.9970	20.7065	19.6475	20.2289	22.6207	19.4341
σ		0.5398	0.2476	0.1145	0.5433	0.2762	0.3414	1.6525	0.3449
%RSD		2.7601	1.2631	0.5727	2.6238	1.4056	1.6877	7.3052	1.7748
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	20.5065	20.6644	22.0720	23.2292	21.9257	91.0%	20.2458	20.0772
2	13:04:38	20.8405	20.5317	22.3368	23.1746	22.1892	87.7%	21.0632	19.1182
3	13:05:45	21.1768	21.3975	23.4698	23.3510	23.4662	84.8%	21.2440	21.4230
X		20.8412	20.8645	22.6262	23.2516	22.5270	87.8%	20.8510	20.2061
σ		0.3351	0.4663	0.7425	0.0903	0.8239	3.1%	0.5319	1.1578
%RSD		1.6081	2.2350	3.2815	0.3885	3.6575	3.5	2.5507	5.7300
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.0185	19.1223	90.8%	21.0114	21.2362	21.3181	91.7%	20.1647
2	13:04:38	20.5530	19.1549	89.5%	21.5470	21.6992	21.7407	90.9%	20.4015
3	13:05:45	21.2740	19.8697	87.6%	21.8012	22.3382	22.1172	89.5%	20.3642
X		20.2819	19.3823	89.3%	21.4532	21.7579	21.7253	90.7%	20.3101
σ		1.1520	0.4224	1.6%	0.4032	0.5534	0.3998	1.1%	0.1273
%RSD		5.6798	2.1793	1.8	1.8793	2.5433	1.8401	1.3	0.6270
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	19.9132	19.9236	19.9722	20.0909	93.8%	20.5253	20.5098	20.6242
2	13:04:38	19.9942	20.2947	20.2062	20.0752	93.7%	20.6554	20.8203	20.7798
3	13:05:45	20.3416	20.6195	20.4533	20.5240	92.7%	20.9605	21.2692	21.0398
X		20.0830	20.2793	20.2106	20.2301	93.4%	20.7138	20.8664	20.8146
σ		0.2276	0.3482	0.2405	0.2547	0.6%	0.2234	0.3818	0.2100
%RSD		1.1332	1.7173	1.1902	1.2590	0.6	1.0783	1.8298	1.0087
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:03:30	20.1755	20.0173	29.0879	28.8783	28.7341	97.3%	19.7544	19.8111
2	13:04:38	20.3804	20.3088	28.9494	28.9727	29.1410	97.4%	20.0853	20.1584
3	13:05:45	20.7564	20.6330	29.6872	29.5717	29.4530	98.0%	20.2037	20.2556
X		20.4374	20.3197	29.2415	29.1409	29.1094	97.6%	20.0145	20.0750
σ		0.2946	0.3080	0.3921	0.3760	0.3605	0.4%	0.2329	0.2337
%RSD		1.4415	1.5158	1.3410	1.2904	1.2383	0.4	1.1637	1.1642
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:03:30	19.5857	19.5575	19.5887	20.4300	98.3%	19.9423		
2	13:04:38	20.1274	20.1393	20.0484	20.7445	99.8%	20.3934		
3	13:05:45	20.2871	20.3087	20.2778	21.1278	100.2%	20.6002		
X		20.0000	20.0018	19.9716	20.7674	99.4%	20.3119		
σ		0.3676	0.3940	0.3509	0.3495	1.0%	0.3364		
%RSD		1.8381	1.9699	1.7571	1.6828	1.0	1.6562		

K1011605-001 DISSD 11/9/2010 1:14:00 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	92.8%	20.8602	25.2159	24.2546	39.4270	23.6989	21.6213	52.5848
2	13:15:07	88.1%	20.5085	25.2102	23.9169	37.8522	22.3158	20.6323	52.0075
3	13:16:14	86.3%	21.1611	26.6103	25.2836	38.0865	25.5535	20.5348	52.9063
x		89.1%	20.8433	25.6788	24.4850	38.4552	23.8561	20.9295	52.4996
σ		3.4%	0.3266	0.8067	0.7119	0.8497	1.6246	0.6012	0.4555
%RSD		3.8	1.5670	3.1416	2.9075	2.2095	6.8098	2.8723	0.8675
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	19.5899	19.4081	19.9621	20.3743	19.2917	19.6208	19.4321	19.5561
2	13:15:07	18.8828	19.0806	20.1527	20.0837	18.9447	19.2342	19.4297	18.8947
3	13:16:14	19.6489	19.5438	19.6360	20.3859	19.5059	19.8225	19.3789	19.2505
x		19.3739	19.3442	19.9169	20.2813	19.2474	19.5591	19.4136	19.2338
σ		0.4263	0.2381	0.2613	0.1712	0.2832	0.2990	0.0301	0.3310
%RSD		2.2004	1.2308	1.3120	0.8440	1.4713	1.5285	0.1548	1.7210
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.2893	20.3860	22.4151	22.0424	22.5961	89.6%	20.7943	19.8251
2	13:15:07	19.9213	20.1485	21.5966	22.0621	22.3428	89.1%	19.8749	20.6298
3	13:16:14	20.4724	20.6966	22.5085	22.7677	22.4769	86.9%	21.1401	18.9302
x		20.2277	20.4103	22.1734	22.2907	22.4719	88.5%	20.6031	19.7950
σ		0.2807	0.2749	0.5017	0.4132	0.1267	1.4%	0.6539	0.8502
%RSD		1.3876	1.3468	2.2626	1.8535	0.5639	1.6	3.1737	4.2950
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.0992	19.1832	91.7%	21.4665	21.4298	21.2616	90.8%	20.0222
2	13:15:07	18.9416	19.1861	89.2%	21.5079	21.8132	21.6407	90.5%	20.1062
3	13:16:14	20.0855	20.3992	89.0%	22.2825	22.3698	22.1673	88.9%	20.4435
x		19.7088	19.5895	89.9%	21.7523	21.8709	21.6899	90.1%	20.1906
σ		0.6645	0.7012	1.5%	0.4596	0.4726	0.4548	1.0%	0.2230
%RSD		3.3714	3.5795	1.7	2.1129	2.1609	2.0970	1.1	1.1043
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.1581	20.0702	20.0064	19.9497	93.8%	20.3761	20.5720	20.6472
2	13:15:07	20.0512	20.2234	20.0690	20.1104	93.4%	20.5207	20.7462	20.6692
3	13:16:14	20.2988	20.6255	20.2599	20.2977	93.3%	20.5474	20.8493	20.6872
x		20.1694	20.3064	20.1118	20.1193	93.5%	20.4814	20.7225	20.6679
σ		0.1242	0.2868	0.1320	0.1742	0.3%	0.0922	0.1402	0.0201
%RSD		0.6157	1.4124	0.6565	0.8658	0.3	0.4501	0.6763	0.0971
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:14:00	20.1682	20.0809	28.7641	28.7400	28.9331	96.7%	19.9562	19.8811
2	13:15:07	20.2903	20.2570	28.7082	29.0328	28.8955	97.9%	19.9486	19.7933
3	13:16:14	20.5088	20.1765	28.9893	28.9795	29.0606	97.8%	20.1546	20.0809
x		20.3225	20.1715	28.8205	28.9175	28.9631	97.5%	20.0198	19.9184
σ		0.1725	0.0882	0.1488	0.1560	0.0865	0.7%	0.1168	0.1474
%RSD		0.8490	0.4370	0.5164	0.5393	0.2986	0.7	0.5834	0.7399
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:14:00	19.8691	19.7652	19.7778	20.5212	99.3%	20.0882		
2	13:15:07	19.8340	19.8567	19.8525	20.4733	101.9%	19.9910		
3	13:16:14	20.0908	20.0657	20.0399	20.7058	100.9%	20.3288		
x		19.9313	19.8958	19.8900	20.5668	100.7%	20.1360		
σ		0.1393	0.1540	0.1350	0.1228	1.3%	0.1739		
%RSD		0.6987	0.7742	0.6789	0.5970	1.3	0.8636		

K1011103-001 11/9/2010 1:24:29 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	96.7%	-0.0116	2.5843	2.4086	23.1433	11.7356	4.6042	70.9985
2	13:25:37	91.3%	-0.0009	2.2640	2.6175	22.8485	13.7048	4.8684	71.3357
3	13:26:44	89.6%	-0.0065	2.5884	2.4757	22.7709	10.7180	4.9110	72.9226
x		92.5%	-0.0063	2.4789	2.5006	22.9209	12.0528	4.7945	71.7522
σ		3.7%	0.0053	0.1861	0.1066	0.1965	1.5184	0.1662	1.0275
%RSD		4.0	84.1128	7.5075	4.2638	0.8572	12.5983	3.4660	1.4320
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	1.1631	0.6887	0.5415	0.4989	0.3541	2.8318	5.7124	8.0862
2	13:25:37	1.1285	0.7045	0.6623	0.4861	0.3663	2.8611	5.4825	8.7800
3	13:26:44	1.2335	0.7415	0.6761	0.5010	0.3734	2.8194	5.7429	9.8009
x		1.1750	0.7116	0.6266	0.4953	0.3646	2.8374	5.6460	8.8890
σ		0.0535	0.0271	0.0741	0.0080	0.0098	0.0214	0.1424	0.8626
%RSD		4.5545	3.8067	11.8215	1.6229	2.6907	0.7548	2.5218	9.7036
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	9.2940	5.3564	40.6222	39.5247	40.4454	86.1%	0.2745	0.0975
2	13:25:37	9.5130	5.6103	41.0413	40.3777	39.5795	83.9%	0.2240	0.0163
3	13:26:44	9.5672	5.5360	42.1642	39.7424	41.2675	80.7%	0.2761	0.1641
x		9.4581	5.5009	41.2759	39.8816	40.4308	83.6%	0.2582	0.0927
σ		0.1446	0.1305	0.7973	0.4432	0.8441	2.7%	0.0296	0.0740
%RSD		1.5290	2.3730	1.9316	1.1114	2.0878	3.3	11.4665	79.8924
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	-0.5354	0.1826	87.0%	24.6701	24.9702	25.1299	82.2%	-0.0001
2	13:25:37	0.0519	-0.0831	85.8%	24.7497	25.5641	25.5017	81.4%	-0.0001
3	13:26:44	0.2237	0.2395	83.6%	25.7094	26.0948	26.0409	79.9%	0.0031
x		-0.0866	0.1130	85.5%	25.0431	25.5430	25.5575	81.1%	0.0009
σ		0.3981	0.1722	1.7%	0.5784	0.5626	0.4581	1.2%	0.0019
%RSD		459.8071	152.4015	2.0	2.3097	2.2025	1.7924	1.5	197.7403
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	0.0012	0.0436	0.0235	0.0351	83.6%	-0.0425	-0.0154	-0.0431
2	13:25:37	0.0017	0.0217	0.0212	0.0279	83.3%	-0.0551	-0.0383	-0.0450
3	13:26:44	0.0001	0.0333	0.0303	0.0279	82.3%	-0.0517	-0.0462	-0.0464
x		0.0010	0.0329	0.0250	0.0303	83.1%	-0.0498	-0.0333	-0.0449
σ		0.0008	0.0110	0.0047	0.0042	0.7%	0.0065	0.0160	0.0017
%RSD		84.2923	33.4649	18.8189	13.7305	0.8	13.0567	48.1450	3.7293
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:24:29	0.1591	0.1761	0.7049	0.6843	0.6914	88.6%	0.0037	0.0047
2	13:25:37	0.1586	0.1640	0.7196	0.6889	0.6974	89.0%	0.0062	0.0032
3	13:26:44	0.1583	0.1669	0.7675	0.7068	0.7200	89.1%	0.0028	0.0034
x		0.1586	0.1690	0.7307	0.6933	0.7029	88.9%	0.0042	0.0037
σ		0.0004	0.0064	0.0327	0.0119	0.0151	0.3%	0.0018	0.0009
%RSD		0.2577	3.7598	4.4784	1.7125	2.1417	0.3	42.0574	22.7630
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:24:29	0.3655	0.3353	0.3506	0.0390	90.3%	-0.0096		
2	13:25:37	0.3534	0.3367	0.3478	0.0423	90.6%	-0.0086		
3	13:26:44	0.3746	0.3666	0.3590	0.0410	90.3%	-0.0096		
x		0.3645	0.3462	0.3525	0.0408	90.4%	-0.0093		
σ		0.0106	0.0177	0.0058	0.0017	0.2%	0.0006		
%RSD		2.9149	5.1015	1.6504	4.0868	0.2	5.9527		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	97.1%	26.4623	25.3380	25.5775	25.4755	25.1197	25.2222	24.8362
2	13:36:05	92.6%	26.1004	25.5308	25.6051	24.6812	29.9117	24.3604	25.0487
3	13:37:12	89.8%	26.3839	28.1120	26.2358	25.3026	24.3086	26.3041	25.6230
X		93.2%	26.3155	26.3270	25.8061	25.1531	26.4467	25.2956	25.1693
σ		3.7%	0.1904	1.5489	0.3724	0.4177	3.0281	0.9739	0.4070
%RSD		3.9	0.7234	5.8834	1.4429	1.6607	11.4498	3.8501	1.6171
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	24.6842	24.7451	25.2566	24.8895	24.7900	25.3785	25.7676	25.4014
2	13:36:05	24.5859	24.7155	25.2211	24.9333	24.8412	24.9599	24.7083	25.3338
3	13:37:12	24.9713	25.1490	25.4055	25.5091	25.0903	25.4584	26.0886	25.9161
X		24.7471	24.8699	25.2944	25.1106	24.9072	25.2656	25.5215	25.5504
σ		0.2003	0.2422	0.0978	0.3458	0.1606	0.2678	0.7223	0.3185
%RSD		0.8093	0.9738	0.3868	1.3771	0.6450	1.0598	2.8302	1.2465
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.0513	25.5042	25.5215	26.3381	25.8903	91.9%	25.6067	24.4540
2	13:36:05	25.4135	25.2880	25.9824	25.6404	25.8160	89.2%	26.0272	25.3345
3	13:37:12	25.2603	25.4818	26.0348	25.6976	26.4942	88.0%	26.1119	25.8535
X		25.2417	25.4247	25.8462	25.8920	26.0668	89.7%	25.9153	25.2140
σ		0.1818	0.1189	0.2824	0.3874	0.3720	2.0%	0.2705	0.7075
%RSD		0.7202	0.4677	1.0927	1.4961	1.4270	2.2	1.0440	2.8059
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.0730	24.3070	92.5%	24.8862	25.4216	25.3989	93.1%	25.4997
2	13:36:05	25.4045	26.1139	91.0%	25.5902	25.8731	25.7504	91.5%	25.5423
3	13:37:12	25.8326	25.0426	89.2%	25.8712	26.0462	26.2851	91.7%	25.6563
X		25.4367	25.1545	90.9%	25.4492	25.7803	25.8114	92.1%	25.5661
σ		0.3808	0.9086	1.6%	0.5074	0.3225	0.4463	0.9%	0.0810
%RSD		1.4972	3.6121	1.8	1.9940	1.2508	1.7290	0.9	0.3166
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.3557	25.6103	25.4259	25.7374	93.9%	25.4363	25.4702	25.4294
2	13:36:05	25.4108	25.5660	25.5565	25.3172	94.4%	25.1800	25.4715	25.2346
3	13:37:12	25.3428	25.6322	25.4813	25.3747	94.8%	25.1076	25.3500	25.0635
X		25.3698	25.6028	25.4879	25.4764	94.4%	25.2413	25.4306	25.2425
σ		0.0361	0.0337	0.0655	0.2278	0.5%	0.1727	0.0698	0.1831
%RSD		0.1424	0.1317	0.2570	0.8941	0.5	0.6842	0.2744	0.7252
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:34:58	25.7185	25.4007	25.4418	25.2053	25.3147	95.9%	25.2766	25.3607
2	13:36:05	25.4437	25.3977	25.2567	25.2125	25.0257	98.6%	25.1771	25.1594
3	13:37:12	25.6020	25.3253	24.9523	25.0833	24.9919	97.5%	25.2541	25.3698
X		25.5881	25.3746	25.2169	25.1670	25.1108	97.3%	25.2359	25.2967
σ		0.1379	0.0427	0.2471	0.0726	0.1774	1.4%	0.0522	0.1189
%RSD		0.5391	0.1682	0.9800	0.2885	0.7064	1.4	0.2067	0.4701
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:34:58	25.3700	25.3071	25.2999	25.3062	97.8%	25.2555		
2	13:36:05	25.0777	25.1698	25.0470	25.0049	101.3%	25.2115		
3	13:37:12	25.4288	25.4003	25.3977	25.3352	101.2%	25.3726		
X		25.2922	25.2924	25.2482	25.2154	100.1%	25.2799		
σ		0.1880	0.1159	0.1810	0.1829	2.0%	0.0833		
%RSD		0.7435	0.4583	0.7170	0.7254	2.0	0.3294		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	95.4%	-0.0001	0.0465	-0.1400	-0.0225	4.0753	-0.0551	0.0071
2	13:57:00	90.5%	-0.0108	-0.1300	-0.1662	-0.0227	1.2890	-0.0023	-0.0018
3	13:58:08	88.7%	-0.0186	-0.0274	-0.1766	-0.0305	0.7974	0.0507	-0.0086
X		91.6%	-0.0098	-0.0370	-0.1609	-0.0252	2.0539	-0.0022	-0.0011
σ		3.5%	0.0093	0.0886	0.0188	0.0046	1.7678	0.0529	0.0079
%RSD		3.8	94.6911	239.7495	11.7063	18.0995	86.0692	2369.9592	729.2294
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0054	0.0073	-0.0049	0.0009	-0.0096	-0.0026	-0.1441	0.3733
2	13:57:00	0.0027	0.0101	0.0051	-0.0018	-0.0102	-0.0137	0.3346	0.4442
3	13:58:08	-0.0112	-0.0303	0.0120	-0.0007	-0.0069	-0.0049	0.2546	0.4339
X		-0.0010	-0.0043	0.0041	-0.0005	-0.0089	-0.0071	0.1484	0.4171
σ		0.0089	0.0225	0.0085	0.0014	0.0017	0.0059	0.2564	0.0383
%RSD		874.8249	525.1179	208.1381	258.6249	19.3490	82.8645	172.8158	9.1880
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0040	-0.0034	-0.0045	-0.0201	0.0162	90.6%	0.0537	-0.1468
2	13:57:00	0.0043	0.0091	-0.0081	0.0066	-0.0055	88.9%	0.1297	-0.1875
3	13:58:08	0.0060	0.0073	-0.0106	-0.0018	0.0084	87.6%	0.0275	-0.0586
X		0.0047	0.0043	-0.0078	-0.0051	0.0064	89.0%	0.0703	-0.1310
σ		0.0011	0.0068	0.0031	0.0137	0.0110	1.5%	0.0531	0.0659
%RSD		22.9353	156.4650	39.4903	266.5496	173.0806	1.7	75.6022	50.2884
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	-0.1063	0.0721	90.3%	-0.0042	0.0084	-0.0039	91.6%	0.0003
2	13:57:00	-0.3174	0.2984	89.7%	0.0045	0.0051	-0.0066	91.4%	-0.0012
3	13:58:08	-0.1716	0.0126	89.3%	-0.0028	0.0262	-0.0024	90.2%	-0.0016
X		-0.1984	0.1277	89.8%	-0.0009	0.0133	-0.0043	91.1%	-0.0008
σ		0.1081	0.1508	0.5%	0.0047	0.0114	0.0021	0.7%	0.0010
%RSD		54.4757	118.0907	0.6	545.1492	85.8316	49.4204	0.8	122.9522
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0006	-0.0006	-0.0005	0.0009	91.2%	-0.0043	-0.0026	0.0153
2	13:57:00	0.0015	-0.0006	-0.0005	0.0027	91.6%	-0.0413	0.0234	0.0023
3	13:58:08	0.0019	-0.0006	-0.0032	0.0013	91.2%	-0.0540	-0.0030	-0.0244
X		0.0013	-0.0006	-0.0014	0.0017	91.3%	-0.0332	0.0059	-0.0023
σ		0.0007	0.0000	0.0015	0.0010	0.3%	0.0259	0.0151	0.0203
%RSD		51.6263	0.0000	108.3360	58.3055	0.3	77.8848	255.2056	894.2867
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:53	0.0015	-0.0006	-0.0084	-0.0031	-0.0065	94.8%	-0.0074	-0.0088
2	13:57:00	0.0009	-0.0006	-0.0025	-0.0072	0.0005	95.2%	-0.0078	-0.0071
3	13:58:08	0.0010	0.0001	-0.0000	-0.0085	-0.0052	95.2%	-0.0087	-0.0085
X		0.0011	-0.0004	-0.0037	-0.0063	-0.0037	95.1%	-0.0079	-0.0081
σ		0.0003	0.0004	0.0043	0.0028	0.0037	0.3%	0.0007	0.0009
%RSD		27.5666	108.2057	117.4705	45.0014	100.0882	0.3	8.4793	10.7115
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:55:53	-0.0059	-0.0043	-0.0052	-0.0168	95.3%	-0.0067		
2	13:57:00	-0.0041	-0.0077	-0.0065	-0.0168	97.2%	-0.0085		
3	13:58:08	-0.0063	-0.0055	-0.0056	-0.0164	97.8%	-0.0066		
X		-0.0054	-0.0058	-0.0058	-0.0167	96.7%	-0.0073		
σ		0.0012	0.0017	0.0006	0.0002	1.3%	0.0011		
%RSD		21.6098	29.7859	10.9764	1.3853	1.3	14.4470		

K1011487-001 11/9/2010 2:01:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	95.1%	0.0000	35.2901	36.7061	176.2136	124.1574	55.9414	563.7146
2	14:02:14	90.3%	-0.0147	36.9206	35.3978	171.2014	119.4638	55.8499	554.0719
3	14:03:22	88.0%	-0.0083	38.6832	37.6942	173.9544	127.8580	56.4595	566.2017
x		91.1%	-0.0077	36.9646	36.5994	173.7898	123.8264	56.0836	561.3294
σ		3.7%	0.0074	1.6970	1.1519	2.5102	4.2069	0.3287	6.4070
%RSD		4.0	96.4715	4.5908	3.1473	1.4444	3.3974	0.5861	1.1414
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	9.9050	1.4073	1.5286	8.3817	0.2230	2.7177	24.0503	2.9544
2	14:02:14	9.6483	1.3587	1.5043	8.2046	0.2276	2.6292	21.1169	2.7925
3	14:03:22	9.8018	1.3753	1.4713	8.4309	0.2270	2.7397	18.4757	2.8707
x		9.7850	1.3804	1.5014	8.3391	0.2259	2.6955	21.2143	2.8726
σ		0.1291	0.0247	0.0288	0.1190	0.0025	0.0584	2.7886	0.0809
%RSD		1.3198	1.7890	1.9171	1.4275	1.0941	2.1683	13.1449	2.8180
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	21.3275	21.5714	58.7744	65.5355	63.8706	88.1%	2.5175	1.0230
2	14:02:14	21.2132	21.1686	58.3357	63.9934	63.1831	87.2%	2.2511	1.3987
3	14:03:22	21.8147	21.6091	59.3298	65.5039	63.2924	84.1%	2.4593	1.0307
x		21.4518	21.4497	58.8133	65.0110	63.4487	86.5%	2.4093	1.1508
σ		0.3194	0.2441	0.4982	0.8814	0.3695	2.1%	0.1400	0.2147
%RSD		1.4890	1.1382	0.8470	1.3557	0.5823	2.4	5.8120	18.6576
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	0.4907	1.3685	89.8%	4.8395	4.9121	5.0218	86.8%	0.0027
2	14:02:14	0.3078	1.0763	89.1%	4.8291	4.9301	4.9100	87.1%	0.0032
3	14:03:22	0.4578	1.2131	87.4%	4.9026	5.1546	5.0039	86.2%	0.0043
x		0.4188	1.2193	88.7%	4.8570	4.9989	4.9785	86.7%	0.0034
σ		0.0975	0.1462	1.2%	0.0398	0.1351	0.0600	0.5%	0.0008
%RSD		23.2875	11.9888	1.4	0.8190	2.7025	1.2062	0.5	24.2863
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	0.0053	0.0411	0.0404	0.0456	89.1%	0.0806	0.1098	0.1005
2	14:02:14	0.0048	0.0362	0.0425	0.0438	89.4%	0.0539	0.0969	0.0859
3	14:03:22	0.0026	0.0364	0.0331	0.0372	89.0%	0.0356	0.0628	0.0661
x		0.0042	0.0379	0.0387	0.0422	89.2%	0.0567	0.0898	0.0841
σ		0.0014	0.0027	0.0050	0.0044	0.3%	0.0227	0.0243	0.0173
%RSD		34.2123	7.2531	12.7986	10.4525	0.3	39.9720	27.0129	20.5351
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:01:07	1.0247	1.0271	207.0954	207.4090	215.3982	94.1%	0.0177	0.0214
2	14:02:14	1.0126	0.9506	204.2172	205.5791	212.8739	95.6%	0.0209	0.0227
3	14:03:22	0.9991	1.0133	204.9552	205.5648	214.6876	95.0%	0.0236	0.0211
x		1.0121	0.9970	205.4226	206.1843	214.3199	94.9%	0.0207	0.0218
σ		0.0128	0.0408	1.4950	1.0607	1.3017	0.7%	0.0030	0.0009
%RSD		1.2642	4.0931	0.7278	0.5144	0.6074	0.8	14.3765	3.9625
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:01:07	0.7044	0.6606	0.6845	-0.0077	96.5%	0.2946		
2	14:02:14	0.7155	0.6502	0.6779	-0.0034	98.1%	0.2812		
3	14:03:22	0.6979	0.6668	0.6800	-0.0081	98.8%	0.2904		
x		0.7059	0.6592	0.6808	-0.0064	97.8%	0.2887		
σ		0.0089	0.0084	0.0033	0.0026	1.2%	0.0069		
%RSD		1.2590	1.2751	0.4896	40.2913	1.2	2.3848		



K1012425-001 11/9/2010 2:11:37 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	91.1%	-0.0168	171.9834	166.7794	21.3592	16.3831	2.8559	107.2950
2	14:12:45	85.4%	-0.0099	173.8149	173.1318	21.3163	16.7967	2.9902	110.9457
3	14:13:52	84.3%	-0.0033	177.1271	175.4147	21.4255	26.8854	2.8157	110.4037
x		86.9%	-0.0100	174.3085	171.7753	21.3670	20.0217	2.8873	109.5481
σ		3.7%	0.0068	2.6071	4.4746	0.0550	5.9477	0.0914	1.9700
%RSD		4.2	67.5370	1.4957	2.6049	0.2574	29.7062	3.1647	1.7983
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.8749	0.3709	0.5172	55.0192	0.1638	1.4119	5.9368	1.4560
2	14:12:45	0.8553	0.3555	0.5399	55.9879	0.1769	1.3229	6.0279	1.5386
3	14:13:52	0.9351	0.3540	0.4581	55.2813	0.1574	1.2829	5.5170	1.6254
x		0.8884	0.3601	0.5051	55.4295	0.1660	1.3392	5.8272	1.5400
σ		0.0416	0.0093	0.0422	0.5011	0.0099	0.0661	0.2725	0.0847
%RSD		4.6837	2.5893	8.3622	0.9040	5.9672	4.9331	4.6757	5.5000
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	13.9050	13.7035	40.7372	39.4038	41.1130	85.0%	1.1424	0.1242
2	14:12:45	13.8990	13.4855	41.3378	39.8759	41.2381	81.6%	1.0054	0.2493
3	14:13:52	13.5516	13.4012	40.8092	39.4705	40.4591	81.3%	1.1487	0.0713
x		13.7852	13.5300	40.9614	39.5834	40.9367	82.7%	1.0988	0.1482
σ		0.2024	0.1560	0.3279	0.2555	0.4183	2.0%	0.0810	0.0914
%RSD		1.4680	1.1531	0.8006	0.6456	1.0219	2.5	7.3672	61.6770
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.1231	0.4515	85.9%	0.8173	0.7678	0.7854	84.6%	0.0377
2	14:12:45	-0.5413	0.2202	85.1%	0.7834	0.8384	0.8286	85.2%	0.0337
3	14:13:52	-1.0161	0.3707	82.7%	0.8320	0.8969	0.8200	82.7%	0.0445
x		-0.4781	0.3475	84.6%	0.8109	0.8344	0.8113	84.2%	0.0386
σ		0.5722	0.1174	1.7%	0.0249	0.0646	0.0229	1.3%	0.0055
%RSD		119.6930	33.7926	2.0	3.0693	7.7468	2.8205	1.6	14.1163
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.0361	0.0287	0.0349	0.0346	86.2%	0.0925	0.1700	0.1505
2	14:12:45	0.0308	0.0189	0.0286	0.0311	86.1%	0.0748	0.1520	0.1410
3	14:13:52	0.0347	0.0407	0.0270	0.0304	86.1%	0.0735	0.1398	0.1235
x		0.0339	0.0294	0.0302	0.0320	86.1%	0.0803	0.1539	0.1383
σ		0.0027	0.0109	0.0042	0.0023	0.1%	0.0106	0.0152	0.0137
%RSD		8.0631	37.1729	13.7982	7.0920	0.1	13.2350	9.8462	9.8904
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:37	0.3145	0.3297	2.0946	2.1692	2.1987	92.5%	-0.0053	-0.0061
2	14:12:45	0.3236	0.2931	2.1503	2.1696	2.1272	92.7%	-0.0047	-0.0063
3	14:13:52	0.3133	0.3255	2.1212	2.1543	2.1369	93.3%	-0.0040	-0.0070
x		0.3171	0.3161	2.1220	2.1644	2.1543	92.8%	-0.0047	-0.0065
σ		0.0056	0.0200	0.0279	0.0087	0.0388	0.4%	0.0006	0.0005
%RSD		1.7727	6.3288	1.3134	0.4020	1.8008	0.4	13.7017	7.5445
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:11:37	0.1422	0.1149	0.1294	0.1116	93.5%	-0.0050		
2	14:12:45	0.1272	0.1278	0.1265	0.1169	95.6%	-0.0043		
3	14:13:52	0.1401	0.1315	0.1260	0.1139	95.8%	-0.0053		
x		0.1365	0.1247	0.1273	0.1141	95.0%	-0.0049		
σ		0.0081	0.0087	0.0019	0.0027	1.3%	0.0005		
%RSD		5.9468	6.9872	1.4657	2.3496	1.3	10.8335		

K1012425-002 11/9/2010 2:17:56 PM

User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	10B ppb	11B ppb	27Al ppb	46Ti ppb	47Ti ppb	48Ti ppb
1	14:17:56	89.6%	-0.0106	170.3627	168.3766	7.6469	27.5183	2.4906	107.5620
2	14:19:04	83.4%	-0.0182	175.9407	175.0309	7.9806	21.4093	2.7534	110.5806
3	14:20:11	82.8%	-0.0138	175.7309	176.7610	7.7320	15.3915	2.7521	112.4959
X		85.3%	-0.0142	174.0114	173.3895	7.7865	21.4397	2.6654	110.2129
σ		3.7%	0.0038	3.1616	4.4266	0.1734	6.0634	0.1513	2.4874
%RSD		4.4	27.0403	1.8169	2.5530	2.2271	28.2814	5.6783	2.2569
Run	Time	51V ppb	52Cr ppb	53Cr ppb	55Mn ppb	59Co ppb	60Ni ppb	61Ni ppb	62Ni ppb
1	14:17:56	0.8773	0.4243	0.6221	51.8863	0.1590	1.2977	5.2951	1.3867
2	14:19:04	0.8515	0.3738	0.7070	52.0469	0.1346	1.3594	5.4313	1.4978
3	14:20:11	0.8793	0.3553	0.6174	52.8354	0.1523	1.3846	5.7970	1.4626
X		0.8694	0.3845	0.6488	52.2562	0.1486	1.3472	5.5078	1.4490
σ		0.0155	0.0357	0.0504	0.5080	0.0126	0.0447	0.2595	0.0568
%RSD		1.7878	9.2900	7.7701	0.9722	8.4645	3.3193	4.7119	3.9213
Run	Time	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb	77Se ppb
1	14:17:56	12.0380	11.8671	38.8528	36.2417	38.5527	83.0%	1.0574	0.1782
2	14:19:04	12.1584	12.0156	39.6348	38.0162	39.6484	79.1%	0.9110	0.2885
3	14:20:11	12.2894	12.0273	40.1081	39.0168	39.7237	77.9%	1.2650	-0.0133
X		12.1620	11.9700	39.5319	37.7582	39.3082	80.0%	1.0778	0.1511
σ		0.1257	0.0893	0.6340	1.4054	0.6554	2.6%	0.1779	0.1527
%RSD		1.0338	0.7461	1.6037	3.7222	1.6674	3.3	16.5036	101.0452
Run	Time	78Se ppb	82Se ppb	89Y ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	14:17:56	-0.7901	0.3007	84.1%	0.7891	0.8466	0.8003	83.6%	0.0095
2	14:19:04	-0.2171	-0.3860	82.7%	0.7828	0.8456	0.8077	82.2%	0.0108
3	14:20:11	-0.5621	0.3954	82.0%	0.8319	0.8767	0.8041	81.6%	0.0103
X		-0.5231	0.1034	82.9%	0.8013	0.8563	0.8040	82.5%	0.0102
σ		0.2885	0.4265	1.1%	0.0268	0.0177	0.0037	1.0%	0.0006
%RSD		55.1478	412.5286	1.3	3.3390	2.0636	0.4634	1.2	6.1150
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	116Sn ppb	118Sn ppb	120Sn ppb
1	14:17:56	0.0112	0.0321	0.0298	0.0325	84.8%	0.1275	0.1699	0.1594
2	14:19:04	0.0081	0.0250	0.0285	0.0291	86.3%	0.0891	0.1644	0.1259
3	14:20:11	0.0092	0.0225	0.0284	0.0297	84.0%	0.0609	0.1597	0.1415
X		0.0095	0.0265	0.0289	0.0304	85.0%	0.0925	0.1646	0.1423
σ		0.0016	0.0050	0.0008	0.0018	1.2%	0.0335	0.0051	0.0167
%RSD		16.5384	18.6824	2.7373	5.9146	1.4	36.1674	3.0998	11.7549
Run	Time	121Sb ppb	123Sb ppb	135Ba ppb	137Ba ppb	138Ba ppb	175Lu ppb	203Tl ppb	205Tl ppb
1	14:17:56	0.3091	0.3051	1.9303	1.7828	1.8827	91.2%	-0.0073	-0.0070
2	14:19:04	0.3129	0.3246	1.9061	1.8153	1.8228	92.6%	-0.0061	-0.0073
3	14:20:11	0.3278	0.3140	1.8766	1.8909	1.8411	92.0%	-0.0062	-0.0081
X		0.3166	0.3145	1.9044	1.8297	1.8489	91.9%	-0.0065	-0.0075
σ		0.0099	0.0098	0.0269	0.0555	0.0307	0.7%	0.0007	0.0005
%RSD		3.1192	3.1053	1.4123	3.0313	1.6605	0.8	10.7178	7.1618
Run	Time	206Pb ppb	207Pb ppb	208Pb ppb	209Bi ppb	232Th ppb	238U ppb		
1	14:17:56	0.0932	0.0963	0.0962	0.0273	93.1%	-0.0073		
2	14:19:04	0.0954	0.0943	0.0946	0.0244	95.5%	-0.0075		
3	14:20:11	0.1048	0.0928	0.0937	0.0280	96.3%	-0.0073		
X		0.0978	0.0945	0.0948	0.0266	95.0%	-0.0074		
σ		0.0062	0.0017	0.0013	0.0019	1.7%	0.0001		
%RSD		6.3090	1.8232	1.3216	7.1744	1.7	1.2142		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	88.4%	-0.0063	129.3537	128.2777	540.7682	24.0820	11.0922	121.3879
2	14:25:13	82.1%	-0.0072	134.0882	133.6216	548.4404	21.1757	8.5417	123.2792
3	14:26:20	80.7%	0.0065	137.0241	136.1113	549.0454	26.6748	9.8318	125.8834
X		83.8%	-0.0023	133.4887	132.6702	546.0847	23.9775	9.8219	123.5168
σ		4.1%	0.0077	3.8702	4.0026	4.6141	2.7510	1.2753	2.2571
%RSD		4.9	330.9270	2.8993	3.0169	0.8449	11.4734	12.9844	1.8274
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	2.6645	1.4899	1.5250	342.5957	0.4472	2.5240	8.0398	2.7126
2	14:25:13	2.7243	1.4805	1.4847	347.4823	0.4505	2.6376	6.6740	2.7670
3	14:26:20	2.6329	1.5183	1.5760	350.3183	0.4615	2.4585	6.8885	2.9478
X		2.6739	1.4962	1.5286	346.7988	0.4531	2.5400	7.2008	2.8092
σ		0.0464	0.0196	0.0457	3.9064	0.0075	0.0906	0.7345	0.1231
%RSD		1.7360	1.3130	2.9916	1.1264	1.6571	3.5681	10.2008	4.3832
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	67.2836	66.7670	112.6138	109.4350	111.4264	85.1%	2.4159	0.4885
2	14:25:13	67.3520	67.0547	115.0722	112.0115	113.9002	82.2%	2.4019	0.2395
3	14:26:20	67.3372	67.6333	115.5401	113.0352	113.2071	82.3%	2.4150	0.3764
X		67.3243	67.1517	114.4087	111.4939	112.8446	83.2%	2.4109	0.3681
σ		0.0360	0.4412	1.5719	1.8551	1.2762	1.7%	0.0078	0.1247
%RSD		0.0534	0.6571	1.3739	1.6638	1.1309	2.0	0.3243	33.8769
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	-0.5888	0.3184	89.6%	2.9129	3.0319	2.9263	84.4%	1.0630
2	14:25:13	-0.6724	0.3075	89.4%	2.9300	2.9456	2.9955	82.3%	1.0429
3	14:26:20	-0.4013	0.6401	87.7%	2.9478	3.1453	3.0279	82.8%	1.0495
X		-0.5542	0.4220	88.9%	2.9302	3.0409	2.9832	83.2%	1.0518
σ		0.1388	0.1890	1.0%	0.0175	0.1002	0.0519	1.1%	0.0102
%RSD		25.0443	44.7777	1.2	0.5962	3.2950	1.7404	1.3	0.9704
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	1.0290	0.1369	0.1334	0.1316	86.3%	0.1751	0.2604	0.2516
2	14:25:13	1.0301	0.1666	0.1450	0.1477	86.3%	0.1761	0.2594	0.2451
3	14:26:20	1.0372	0.1558	0.1490	0.1366	86.0%	0.1775	0.2097	0.2286
X		1.0321	0.1531	0.1425	0.1386	86.2%	0.1762	0.2432	0.2418
σ		0.0045	0.0150	0.0081	0.0083	0.2%	0.0012	0.0290	0.0119
%RSD		0.4323	9.8127	5.6786	5.9574	0.2	0.6926	11.9226	4.9057
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:24:06	0.5770	0.5890	22.5211	22.4802	22.5693	91.8%	-0.0025	-0.0025
2	14:25:13	0.5932	0.5685	22.7946	22.7077	22.8158	93.9%	-0.0032	-0.0023
3	14:26:20	0.5961	0.5985	22.7815	22.7983	22.7540	93.9%	0.0001	-0.0019
X		0.5888	0.5853	22.6991	22.6621	22.7131	93.2%	-0.0019	-0.0022
σ		0.0103	0.0154	0.1543	0.1639	0.1282	1.2%	0.0017	0.0003
%RSD		1.7557	2.6248	0.6797	0.7231	0.5646	1.3	91.6884	14.1055
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:24:06	2.8624	2.7550	2.8047	2.9916	94.4%	0.0936		
2	14:25:13	2.8494	2.7626	2.8092	3.0152	97.3%	0.0969		
3	14:26:20	2.8798	2.7480	2.7931	2.9938	97.4%	0.0973		
X		2.8639	2.7552	2.8023	3.0002	96.4%	0.0959		
σ		0.0152	0.0073	0.0083	0.0130	1.7%	0.0020		
%RSD		0.5323	0.2664	0.2977	0.4333	1.8	2.0978		

K1012425-004 11/9/2010 2:31:43 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	87.1%	0.0147	175.5488	171.6923	781.4987	31.7016	21.4856	125.8220
2	14:32:50	81.2%	0.0197	172.2548	173.4357	766.3845	25.3998	16.4528	126.1885
3	14:33:57	80.1%	0.0090	181.9994	179.4463	768.9420	36.9148	15.9659	126.8428
X		82.8%	0.0145	176.6010	174.8581	772.2751	31.3387	17.9681	126.2844
σ		3.8%	0.0053	4.9568	4.0680	8.0897	5.7661	3.0560	0.5171
%RSD		4.6	36.8391	2.8068	2.3264	1.0475	18.3992	17.0078	0.4095
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	1.7220	1.6131	1.5878	67.1711	0.3705	2.5831	7.7469	2.9126
2	14:32:50	1.6967	1.6111	1.7280	66.8832	0.3486	2.5241	6.6141	2.6446
3	14:33:57	1.7933	1.6834	1.6430	67.3309	0.3884	2.5102	6.1729	2.9172
X		1.7373	1.6359	1.6529	67.1284	0.3692	2.5391	6.8446	2.8248
σ		0.0501	0.0412	0.0707	0.2269	0.0200	0.0387	0.8119	0.1561
%RSD		2.8832	2.5171	4.2747	0.3380	5.4052	1.5249	11.8626	5.5256
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	131.6641	132.9481	132.8896	128.8250	130.8938	83.4%	0.9956	0.2152
2	14:32:50	129.2960	129.6083	130.1694	125.9268	127.0814	82.2%	0.9375	0.5139
3	14:33:57	129.6981	130.3854	132.1241	126.4026	130.0982	81.0%	0.9277	0.2730
X		130.2194	130.9806	131.7277	127.0515	129.3578	82.2%	0.9536	0.3341
σ		1.2672	1.7477	1.4028	1.5542	2.0111	1.2%	0.0367	0.1584
%RSD		0.9731	1.3343	1.0649	1.2233	1.5547	1.4	3.8504	47.4183
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	-0.8790	0.3397	87.8%	0.4910	0.4808	0.5266	84.3%	0.0108
2	14:32:50	-0.3362	0.5813	86.7%	0.4690	0.5526	0.5233	82.5%	0.0156
3	14:33:57	-0.4214	0.2670	86.1%	0.5024	0.5203	0.5169	81.9%	0.0195
X		-0.5455	0.3960	86.9%	0.4875	0.5179	0.5223	82.9%	0.0153
σ		0.2919	0.1645	0.9%	0.0170	0.0360	0.0050	1.2%	0.0044
%RSD		53.5080	41.5400	1.0	3.4805	6.9451	0.9494	1.5	28.4257
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	0.0317	0.1345	0.2224	0.1782	84.9%	1.2448	1.6559	1.6011
2	14:32:50	0.0150	0.1341	0.2369	0.1875	86.2%	1.1298	1.5695	1.5638
3	14:33:57	0.0182	0.1550	0.2257	0.1870	85.5%	1.1273	1.6089	1.6078
X		0.0216	0.1412	0.2283	0.1843	85.5%	1.1673	1.6114	1.5909
σ		0.0089	0.0119	0.0076	0.0052	0.7%	0.0671	0.0432	0.0237
%RSD		41.1575	8.4513	3.3386	2.8308	0.8	5.7523	2.6833	1.4919
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:43	0.2126	0.2222	17.3835	17.3216	17.5032	92.3%	-0.0043	-0.0014
2	14:32:50	0.1971	0.1994	16.9113	17.2074	17.0152	93.2%	-0.0061	-0.0043
3	14:33:57	0.2057	0.2192	17.2124	17.4900	17.3233	92.6%	-0.0024	-0.0026
X		0.2051	0.2136	17.1691	17.3397	17.2806	92.7%	-0.0043	-0.0028
σ		0.0078	0.0124	0.2391	0.1421	0.2468	0.4%	0.0019	0.0015
%RSD		3.7819	5.7954	1.3926	0.8197	1.4281	0.5	44.2745	51.9845
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:31:43	1.5157	1.4546	1.5007	2.9178	93.9%	0.0929		
2	14:32:50	1.5619	1.4738	1.5034	2.9009	96.2%	0.0958		
3	14:33:57	1.4958	1.4926	1.4977	2.9181	96.0%	0.0983		
X		1.5244	1.4736	1.5006	2.9123	95.4%	0.0957		
σ		0.0339	0.0190	0.0028	0.0098	1.3%	0.0027		
%RSD		2.2253	1.2883	0.1888	0.3365	1.3	2.8419		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	84.4%	1.4823	38.2932	37.0217	375.7629	123.5547	124.8733	124.3237
2	14:38:14	79.7%	1.5401	36.5645	35.5631	365.8037	114.5061	122.3232	122.9356
3	14:39:22	77.0%	1.4680	37.1973	36.2799	371.4797	113.3991	124.2291	121.5202
X		80.4%	1.4968	37.3517	36.2882	371.0154	117.1533	123.8085	122.9265
σ		3.8%	0.0382	0.8746	0.7293	4.9958	5.5714	1.3261	1.4018
%RSD		4.7	2.5504	2.3416	2.0098	1.3465	4.7556	1.0711	1.1403
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	206.9383	77.7036	81.9261	3.1794	0.5694	11.3045	11.6080	18.6030
2	14:38:14	204.3017	76.7321	81.0944	3.1613	0.5524	11.2508	12.8988	19.1985
3	14:39:22	204.7699	76.6885	81.8778	3.1379	0.5584	11.0583	11.5059	19.2325
X		205.3366	77.0414	81.6328	3.1595	0.5601	11.2045	12.0042	19.0113
σ		1.4067	0.5739	0.4668	0.0208	0.0086	0.1295	0.7764	0.3540
%RSD		0.6851	0.7449	0.5719	0.6578	1.5331	1.1554	6.4674	1.8622
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	10.2772	2.5872	3.6339	6.5467	4.4529	90.7%	10.8325	3.5961
2	14:38:14	10.3208	2.5930	3.5385	6.1600	4.4976	87.6%	11.0412	3.4314
3	14:39:22	10.2399	2.6493	3.5653	5.7010	4.3207	86.6%	10.7248	3.1567
X		10.2793	2.6098	3.5792	6.1359	4.4237	88.3%	10.8662	3.3947
σ		0.0405	0.0343	0.0492	0.4234	0.0920	2.2%	0.1608	0.2220
%RSD		0.3937	1.3141	1.3750	6.9000	2.0802	2.5	1.4802	6.5389
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	-3.8932	0.6937	980.9%	4.5824	6.0999	6.6125	78.0%	0.0092
2	14:38:14	-3.2810	0.7361	968.2%	4.6559	6.0700	6.7088	75.9%	0.0114
3	14:39:22	-3.2323	0.5724	953.9%	4.6421	6.1241	6.7065	75.2%	0.0063
X		-3.4688	0.6674	967.7%	4.6268	6.0980	6.6759	76.4%	0.0090
σ		0.3683	0.0850	13.5%	0.0390	0.0271	0.0550	1.5%	0.0026
%RSD		10.6175	12.7335	1.4	0.8440	0.4451	0.8232	1.9	28.6520
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	0.0090	0.0474	0.0469	0.0461	81.3%	0.2446	-0.0031	0.0044
2	14:38:14	0.0071	0.0542	0.0324	0.0476	81.1%	0.1963	0.0146	0.0072
3	14:39:22	0.0070	0.0436	0.0361	0.0386	78.9%	0.1821	0.0102	0.0010
X		0.0077	0.0484	0.0385	0.0441	80.4%	0.2077	0.0072	0.0042
σ		0.0011	0.0054	0.0075	0.0048	1.3%	0.0328	0.0092	0.0031
%RSD		14.2569	11.1714	19.5161	10.9011	1.7	15.7901	127.6920	73.1052
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:07	0.1804	0.1997	29.4254	29.3720	29.5041	97.6%	-0.0065	-0.0054
2	14:38:14	0.1721	0.1836	29.2090	29.3153	29.4233	98.3%	-0.0072	-0.0063
3	14:39:22	0.2003	0.1872	29.5337	29.5553	30.2667	97.7%	-0.0042	-0.0064
X		0.1842	0.1901	29.3894	29.4142	29.7314	97.9%	-0.0060	-0.0060
σ		0.0145	0.0085	0.1653	0.1255	0.4653	0.4%	0.0016	0.0006
%RSD		7.8571	4.4534	0.5625	0.4266	1.5652	0.4	26.2087	9.1613
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:37:07	1.0940	1.0476	1.0414	0.0003	202.4%	2.7250		
2	14:38:14	1.0774	1.0459	1.0365	-0.0024	209.2%	2.6888		
3	14:39:22	1.1087	1.0313	1.0418	-0.0053	211.0%	2.6619		
X		1.0934	1.0416	1.0399	-0.0025	207.5%	2.6919		
σ		0.0157	0.0090	0.0030	0.0028	4.6%	0.0316		
%RSD		1.4363	0.8619	0.2858	111.5496	2.2	1.1754		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	92.4%	-0.0169	1.1307	1.2909	0.0526	8.0014	-0.0847	0.1053
2	14:45:34	87.0%	-0.0185	1.2428	1.0726	0.1141	5.8228	0.0392	0.1040
3	14:46:41	86.4%	-0.0164	0.6415	0.9058	0.1014	12.9788	-0.0811	0.1141
x		88.6%	-0.0173	1.0050	1.0898	0.0894	8.9343	-0.0422	0.1078
σ		3.3%	0.0011	0.3198	0.1931	0.0325	3.6681	0.0705	0.0055
%RSD		3.7	6.4218	31.8154	17.7192	36.3302	41.0564	167.2188	5.1050
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	0.0156	0.0008	0.2624	0.0030	-0.0113	0.0093	0.2131	2.5610
2	14:45:34	0.0213	0.0001	0.2292	0.0040	-0.0134	-0.0016	0.2463	2.6139
3	14:46:41	0.0064	-0.0210	0.1794	0.0050	-0.0119	0.0058	0.1771	2.4518
x		0.0144	-0.0067	0.2236	0.0040	-0.0122	0.0045	0.2121	2.5423
σ		0.0075	0.0124	0.0418	0.0010	0.0011	0.0056	0.0346	0.0827
%RSD		52.0811	185.6986	18.6841	25.2446	8.7134	123.9689	16.3103	3.2516
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	0.1190	0.0138	0.0315	0.0425	0.0099	88.2%	0.0874	0.0270
2	14:45:34	0.0972	0.0021	0.0267	-0.0011	0.0274	85.0%	-0.0221	-0.0749
3	14:46:41	0.1010	0.0113	0.0438	0.0263	0.0388	85.6%	0.0098	0.0340
x		0.1057	0.0091	0.0340	0.0226	0.0254	86.3%	0.0250	-0.0046
σ		0.0117	0.0061	0.0088	0.0220	0.0145	1.7%	0.0563	0.0609
%RSD		11.0306	67.5987	25.9621	97.4065	57.2940	1.9	225.0290	1321.6436
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.1773	0.3025	87.8%	-0.0265	-0.0294	-0.0179	89.2%	-0.0022
2	14:45:34	-0.4185	-0.2224	86.7%	-0.0208	-0.0244	-0.0173	89.4%	-0.0033
3	14:46:41	0.1586	0.0275	86.4%	-0.0293	-0.0153	-0.0227	87.9%	-0.0026
x		-0.1457	0.0359	87.0%	-0.0255	-0.0231	-0.0193	88.8%	-0.0027
σ		0.2898	0.2626	0.8%	0.0043	0.0071	0.0030	0.8%	0.0006
%RSD		198.8960	732.0343	0.9	16.9774	30.9647	15.3180	0.9	20.4831
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.0020	-0.0006	-0.0094	-0.0027	89.2%	-0.0983	-0.1198	-0.1326
2	14:45:34	-0.0023	-0.0006	-0.0076	-0.0039	90.2%	-0.1118	-0.1352	-0.1218
3	14:46:41	-0.0018	0.0004	-0.0072	-0.0039	90.0%	-0.1048	-0.1142	-0.1329
x		-0.0020	-0.0002	-0.0081	-0.0035	89.8%	-0.1049	-0.1231	-0.1291
σ		0.0002	0.0005	0.0012	0.0007	0.5%	0.0067	0.0108	0.0064
%RSD		11.3801	220.0947	14.9189	19.2652	0.6	6.4305	8.8169	4.9223
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:44:26	-0.0014	-0.0016	-0.0093	-0.0062	-0.0104	92.8%	-0.0058	-0.0056
2	14:45:34	-0.0004	-0.0019	-0.0058	-0.0043	-0.0064	94.1%	-0.0070	-0.0077
3	14:46:41	-0.0001	-0.0009	-0.0082	0.0045	-0.0062	94.4%	-0.0079	-0.0074
x		-0.0006	-0.0015	-0.0078	-0.0020	-0.0077	93.8%	-0.0069	-0.0069
σ		0.0007	0.0005	0.0018	0.0057	0.0024	0.9%	0.0010	0.0011
%RSD		113.3230	35.3983	22.7437	289.5608	30.9011	0.9	14.7380	16.2048
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:44:26	-0.0057	-0.0086	-0.0075	-0.0181	94.1%	-0.0089		
2	14:45:34	-0.0047	-0.0072	-0.0079	-0.0194	96.7%	-0.0090		
3	14:46:41	-0.0063	-0.0082	-0.0076	-0.0193	96.6%	-0.0086		
x		-0.0056	-0.0080	-0.0077	-0.0190	95.8%	-0.0088		
σ		0.0008	0.0007	0.0002	0.0008	1.5%	0.0002		
%RSD		14.7725	9.1141	2.5761	3.9778	1.5	2.4942		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	94.1%	20.6106	2.3960	2.0208	19.6018	0.6290	0.4201	0.0832
2	14:50:44	89.0%	20.6532	2.4945	2.0580	19.7705	2.2309	0.2352	0.0745
3	14:51:51	87.2%	20.9083	2.1194	1.9849	19.5720	1.5703	0.2404	0.0611
x		90.1%	20.7240	2.3366	2.0212	19.6481	1.4767	0.2986	0.0729
σ		3.6%	0.1610	0.1945	0.0365	0.1071	0.8050	0.1053	0.0111
%RSD		4.0	0.7769	8.3238	1.8073	0.5448	54.5125	35.2641	15.2845
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	19.5160	19.9947	19.9334	19.9427	19.8190	19.8719	19.4421	21.6274
2	14:50:44	19.3881	19.4318	19.4984	19.8450	19.5922	19.7315	19.2551	21.5230
3	14:51:51	19.4133	19.4740	19.6206	19.7324	19.3572	19.6442	19.6217	21.8006
x		19.4391	19.6335	19.6842	19.8400	19.5895	19.7492	19.4396	21.6503
σ		0.0678	0.3135	0.2244	0.1053	0.2309	0.1149	0.1833	0.1402
%RSD		0.3486	1.5970	1.1398	0.5305	1.1787	0.5817	0.9430	0.6476
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.0983	20.1098	20.7865	20.7872	20.6248	88.2%	20.6367	18.4195
2	14:50:44	19.7606	20.3630	20.4810	20.4632	20.5331	87.2%	19.8595	19.3109
3	14:51:51	19.8692	20.1329	20.7924	20.6826	20.4863	86.5%	19.5418	19.2901
x		19.9094	20.2019	20.6866	20.6443	20.5481	87.3%	20.0127	19.0068
σ		0.1724	0.1400	0.1781	0.1653	0.0704	0.8%	0.5633	0.5088
%RSD		0.8660	0.6931	0.8609	0.8009	0.3427	1.0	2.8148	2.6768
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	19.1257	20.5058	88.5%	20.1812	20.3366	20.4396	90.4%	20.2306
2	14:50:44	19.2465	19.9109	88.1%	20.3385	20.5990	20.3889	90.1%	20.1865
3	14:51:51	19.1192	18.7501	87.9%	20.3988	20.8356	20.7075	89.4%	20.3644
x		19.1638	19.7223	88.2%	20.3062	20.5904	20.5120	90.0%	20.2605
σ		0.0717	0.8929	0.3%	0.1124	0.2496	0.1712	0.5%	0.0926
%RSD		0.3740	4.5275	0.3	0.5533	1.2124	0.8346	0.6	0.4571
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.2071	20.3466	19.4743	20.0484	90.7%	6.0414	-0.0900	-0.0874
2	14:50:44	20.0100	20.5997	19.0846	19.7889	91.1%	5.9010	-0.0828	-0.0996
3	14:51:51	20.1838	20.4693	19.2681	20.1313	90.4%	5.8595	-0.0999	-0.1007
x		20.1337	20.4718	19.2757	19.9895	90.7%	5.9339	-0.0909	-0.0959
σ		0.1077	0.1265	0.1949	0.1786	0.3%	0.0953	0.0086	0.0074
%RSD		0.5351	0.6181	1.0112	0.8936	0.4	1.6064	9.4117	7.7014
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:36	20.4498	20.0110	20.0052	20.2407	19.9066	94.0%	19.8545	20.0308
2	14:50:44	20.4986	20.1798	19.8270	20.2740	19.9021	95.5%	20.0636	20.1139
3	14:51:51	20.5857	20.3200	20.0360	20.1018	20.0916	96.1%	19.9307	19.9794
x		20.5114	20.1703	19.9561	20.2055	19.9667	95.2%	19.9496	20.0414
σ		0.0689	0.1547	0.1128	0.0913	0.1082	1.1%	0.1058	0.0679
%RSD		0.3357	0.7670	0.5653	0.4521	0.5417	1.1	0.5305	0.3387
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:49:36	19.8312	19.9160	19.9022	-0.0184	97.2%	19.9707		
2	14:50:44	20.1739	20.1432	20.1308	-0.0172	98.3%	20.1749		
3	14:51:51	19.9439	19.9862	19.9500	-0.0168	99.2%	19.9711		
x		19.9830	20.0152	19.9943	-0.0175	98.3%	20.0389		
σ		0.1747	0.1163	0.1206	0.0008	1.0%	0.1178		
%RSD		0.8740	0.5812	0.6032	4.7953	1.0	0.5877		

K1010795-001 11/9/2010 3:00:06 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	91.6%	-0.0030	10.5178	9.7131	11.4580	45.6554	1.5323	253.8576
2	15:01:13	85.8%	-0.0100	10.5853	10.2836	11.4770	39.4953	2.2296	255.1514
3	15:02:20	85.4%	-0.0184	10.4116	10.3484	11.4967	42.3922	1.6362	253.9646
x		87.6%	-0.0105	10.5049	10.1151	11.4772	42.5143	1.7994	254.3245
σ		3.5%	0.0077	0.0875	0.3496	0.0193	3.0819	0.3762	0.7181
%RSD		4.0	73.7104	0.8333	3.4561	0.1686	7.2490	20.9074	0.2824
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	2.2514	3.0503	3.2072	67.8218	0.3844	7.9782	20.4032	8.9908
2	15:01:13	2.3470	3.0768	3.1259	67.0097	0.3545	7.9387	17.5689	8.9474
3	15:02:20	2.3921	3.1054	3.1574	67.3970	0.3776	7.8349	16.6642	9.1348
x		2.3301	3.0775	3.1635	67.4095	0.3721	7.9173	18.2121	9.0244
σ		0.0719	0.0276	0.0410	0.4062	0.0157	0.0740	1.9507	0.0981
%RSD		3.0839	0.8964	1.2959	0.6026	4.2130	0.9346	10.7110	1.0872
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	1.8950	1.7455	4.6590	8.8054	7.7804	85.2%	1.8082	0.2523
2	15:01:13	1.8158	1.6893	4.6663	8.8566	7.6764	82.2%	1.4320	0.3585
3	15:02:20	1.8609	1.7276	4.5871	8.6006	7.3622	80.8%	1.7667	0.2991
x		1.8572	1.7208	4.6375	8.7542	7.6064	82.7%	1.6690	0.3033
σ		0.0398	0.0287	0.0437	0.1354	0.2177	2.3%	0.2063	0.0532
%RSD		2.1405	1.6697	0.9429	1.5471	2.8625	2.7	12.3597	17.5549
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.0636	0.4302	87.6%	3.1369	3.0988	3.1982	85.5%	-0.0012
2	15:01:13	-0.3807	-0.0679	85.8%	3.1486	3.2926	3.2087	84.1%	-0.0012
3	15:02:20	0.2952	0.5597	84.9%	3.1351	3.1763	3.2555	82.8%	-0.0009
x		-0.0073	0.3073	86.1%	3.1402	3.1892	3.2208	84.1%	-0.0011
σ		0.3435	0.3314	1.4%	0.0073	0.0975	0.0305	1.4%	0.0002
%RSD		4676.1053	107.8189	1.6	0.2321	3.0576	0.9461	1.6	15.0372
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.0001	0.0379	0.0361	0.0356	87.6%	0.0096	0.0150	0.0276
2	15:01:13	0.0006	0.0444	0.0327	0.0308	86.0%	0.0008	0.0080	0.0134
3	15:02:20	0.0004	0.0337	0.0365	0.0362	86.5%	0.0093	0.0131	0.0129
x		0.0004	0.0387	0.0351	0.0342	86.7%	0.0066	0.0120	0.0180
σ		0.0003	0.0054	0.0021	0.0030	0.8%	0.0050	0.0037	0.0083
%RSD		69.5334	13.9633	6.0205	8.6459	0.9	76.7379	30.3949	46.3937
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:00:06	0.1827	0.1673	116.8855	118.7982	120.9959	93.1%	0.0062	0.0104
2	15:01:13	0.1754	0.1669	118.8741	118.9108	121.1942	93.9%	0.0100	0.0069
3	15:02:20	0.1595	0.1834	117.8832	118.4020	120.9702	93.6%	0.0092	0.0075
x		0.1725	0.1725	117.8810	118.7037	121.0534	93.5%	0.0085	0.0083
σ		0.0119	0.0094	0.9943	0.2672	0.1226	0.4%	0.0020	0.0019
%RSD		6.8950	5.4677	0.8435	0.2251	0.1013	0.5	23.8695	22.4159
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:00:06	0.3167	0.3082	0.3096	-0.0183	95.3%	4.9734		
2	15:01:13	0.3234	0.2928	0.3034	-0.0170	96.9%	4.9836		
3	15:02:20	0.3167	0.3304	0.3174	-0.0171	97.5%	5.0005		
x		0.3189	0.3104	0.3101	-0.0175	96.6%	4.9858		
σ		0.0039	0.0189	0.0070	0.0007	1.2%	0.0137		
%RSD		1.2177	6.0835	2.2615	4.2906	1.2	0.2742		



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11/9/2010 3:09:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	91.2%	-0.0168	10.9437	9.7783	11.3974	38.3560	1.7423	254.2186
2	15:10:39	86.4%	-0.0101	10.2622	10.2031	11.1513	38.3694	1.9771	253.5542
3	15:11:46	85.2%	-0.0077	9.2907	10.1937	11.2828	39.0102	2.3592	256.9856
x		87.6%	-0.0115	10.1655	10.0584	11.2772	38.5785	2.0262	254.9195
σ		3.2%	0.0047	0.8307	0.2426	0.1231	0.3739	0.3113	1.8199
%RSD		3.6	40.7758	8.1720	2.4120	1.0920	0.9692	15.3661	0.7139
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	2.3244	3.0732	3.2572	66.9664	0.3807	8.0123	20.2793	8.9579
2	15:10:39	2.3325	2.9665	3.0015	65.8717	0.3497	7.7601	16.8386	8.4683
3	15:11:46	2.3422	3.0992	3.1727	67.6586	0.3735	7.9145	17.6538	8.8791
x		2.3330	3.0463	3.1438	66.8322	0.3679	7.8956	18.2572	8.7684
σ		0.0089	0.0703	0.1303	0.9010	0.0162	0.1272	1.7980	0.2629
%RSD		0.3811	2.3076	4.1438	1.3481	4.4074	1.6106	9.8480	2.9984
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	1.9323	1.8244	4.0189	8.1419	7.2189	83.7%	1.6759	0.2607
2	15:10:39	1.7700	1.6562	4.0397	8.2664	7.3348	82.3%	1.6338	0.2692
3	15:11:46	1.8898	1.7738	4.2324	8.5278	7.1207	78.7%	1.7095	0.2641
x		1.8640	1.7515	4.0970	8.3120	7.2248	81.6%	1.6731	0.2647
σ		0.0842	0.0863	0.1177	0.1970	0.1072	2.6%	0.0379	0.0043
%RSD		4.5148	4.9283	2.8733	2.3697	1.4832	3.2	2.2662	1.6200
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	-0.7812	0.2790	86.4%	3.1390	3.2690	3.1822	84.5%	-0.0016
2	15:10:39	-0.5050	0.3631	85.2%	3.1838	3.1916	3.1760	83.3%	-0.0014
3	15:11:46	-0.7256	0.4047	84.0%	3.1377	3.2858	3.2571	82.4%	-0.0016
x		-0.6706	0.3490	85.2%	3.1535	3.2488	3.2051	83.4%	-0.0015
σ		0.1461	0.0640	1.2%	0.0262	0.0502	0.0451	1.0%	0.0001
%RSD		21.7839	18.3513	1.4	0.8318	1.5462	1.4079	1.2	8.7646
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	-0.0008	0.0374	0.0416	0.0310	86.3%	0.0143	0.0145	0.0377
2	15:10:39	-0.0010	0.0376	0.0360	0.0350	86.3%	-0.0003	0.0178	0.0260
3	15:11:46	-0.0024	0.0401	0.0425	0.0396	85.1%	0.0095	0.0318	0.0185
x		-0.0014	0.0384	0.0401	0.0352	85.9%	0.0078	0.0214	0.0274
σ		0.0009	0.0015	0.0035	0.0043	0.7%	0.0074	0.0092	0.0097
%RSD		62.7215	3.8733	8.8050	12.2234	0.8	95.3446	43.1669	35.2762
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	0.1822	0.1756	118.3235	118.4022	120.5502	92.1%	0.0029	0.0082
2	15:10:39	0.1687	0.1664	117.9885	118.0529	120.6134	93.7%	0.0065	0.0083
3	15:11:46	0.1779	0.1591	116.3885	117.9075	120.5787	94.1%	0.0073	0.0073
x		0.1763	0.1670	117.5668	118.1209	120.5807	93.3%	0.0056	0.0079
σ		0.0069	0.0083	1.0341	0.2542	0.0317	1.1%	0.0023	0.0005
%RSD		3.9059	4.9663	0.8796	0.2152	0.0263	1.2	42.0201	6.5797
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:09:31	0.3354	0.3131	0.3133	-0.0174	94.7%	4.9806		
2	15:10:39	0.3210	0.3196	0.3124	-0.0182	97.1%	4.9748		
3	15:11:46	0.3036	0.3014	0.3039	-0.0187	96.8%	4.9986		
x		0.3200	0.3114	0.3099	-0.0181	96.2%	4.9847		
σ		0.0159	0.0092	0.0052	0.0006	1.3%	0.0124		
%RSD		4.9838	2.9576	1.6677	3.5070	1.3	0.2493		

CRA 11/9/2010 3:17:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	91.1%	0.0130	0.7647	0.7438	5.8583	4.7864	0.1185	0.1450
2	15:18:18	85.4%	0.0049	1.2709	0.6729	5.5806	-1.5494	-0.0450	0.0997
3	15:19:25	83.1%	0.0078	0.8900	0.6281	5.6281	-1.4001	0.0472	0.1510
X		86.6%	0.0086	0.9752	0.6816	5.6890	0.6123	0.0402	0.1319
σ		4.1%	0.0041	0.2636	0.0583	0.1485	3.6157	0.0820	0.0280
%RSD		4.8	47.9600	27.0340	8.5572	2.6109	590.4672	203.6533	21.2352
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.2145	0.2048	0.1697	0.0564	0.0074	0.1943	0.5549	0.9703
2	15:18:18	0.1470	0.1704	0.2822	0.0536	-0.0010	0.1653	0.4541	1.0985
3	15:19:25	0.1558	0.1796	0.3202	0.0513	0.0105	0.2316	0.0741	1.1753
X		0.1724	0.1850	0.2574	0.0538	0.0057	0.1971	0.3610	1.0814
σ		0.0366	0.0178	0.0783	0.0025	0.0059	0.0333	0.2535	0.1036
%RSD		21.2519	9.6229	30.4116	4.7310	105.0302	16.8834	70.2303	9.5798
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.1292	0.1010	0.5420	0.3645	0.5520	85.8%	0.4835	1.4496
2	15:18:18	0.1373	0.1262	0.5332	0.4576	0.4587	84.1%	0.5528	0.8180
3	15:19:25	0.1225	0.1078	0.5099	0.6317	0.5418	82.2%	0.5531	0.9331
X		0.1297	0.1117	0.5284	0.4846	0.5175	84.0%	0.5298	1.0669
σ		0.0074	0.0131	0.0166	0.1356	0.0512	1.8%	0.0401	0.3364
%RSD		5.7437	11.6899	3.1329	27.9867	9.8911	2.1	7.5656	31.5304
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.4106	1.1573	87.3%	0.0460	0.0432	0.0341	87.7%	0.0188
2	15:18:18	0.7033	1.1672	85.3%	0.0325	0.0422	0.0374	86.8%	0.0179
3	15:19:25	0.7814	0.9821	83.5%	0.0261	0.0250	0.0207	86.9%	0.0124
X		0.6318	1.1022	85.4%	0.0349	0.0368	0.0307	87.1%	0.0164
σ		0.1955	0.1041	1.9%	0.0102	0.0102	0.0088	0.5%	0.0035
%RSD		30.9391	9.4484	2.3	29.2182	27.7521	28.7152	0.6	21.1943
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.0173	0.0192	0.0151	0.0160	89.4%	0.0408	0.0314	0.0423
2	15:18:18	0.0211	0.0269	0.0135	0.0234	88.9%	-0.0005	0.0377	0.0357
3	15:19:25	0.0167	0.0205	0.0067	0.0250	87.5%	0.0069	0.0120	0.0214
X		0.0183	0.0222	0.0118	0.0215	88.6%	0.0157	0.0270	0.0331
σ		0.0024	0.0041	0.0045	0.0048	1.0%	0.0220	0.0134	0.0107
%RSD		13.1202	18.6354	37.9828	22.4883	1.1	140.0515	49.5654	32.1375
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:11	0.0485	0.0566	0.0385	0.0449	0.0462	92.1%	0.0135	0.0111
2	15:18:18	0.0558	0.0499	0.0433	0.0406	0.0511	93.9%	0.0114	0.0125
3	15:19:25	0.0630	0.0531	0.0416	0.0593	0.0466	93.8%	0.0045	0.0105
X		0.0558	0.0532	0.0411	0.0483	0.0480	93.3%	0.0098	0.0114
σ		0.0072	0.0034	0.0024	0.0098	0.0027	1.0%	0.0047	0.0010
%RSD		12.9603	6.3518	5.8491	20.3094	5.6339	1.1	48.0435	8.7121
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:17:11	0.0166	0.0106	0.0117	0.0288	94.5%	0.0105		
2	15:18:18	0.0169	0.0137	0.0127	0.0281	96.1%	0.0100		
3	15:19:25	0.0119	0.0127	0.0135	0.0282	96.0%	0.0130		
X		0.0151	0.0123	0.0126	0.0284	95.5%	0.0112		
σ		0.0028	0.0016	0.0009	0.0004	0.9%	0.0016		
%RSD		18.7185	13.0659	7.1849	1.3037	1.0	14.6514		

CCV3 11/9/2010 3:27:23 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	86.9%	26.0922	27.2170	25.9340	25.4257	20.8794	25.6118	24.9160
2	15:28:30	83.4%	26.6820	26.3778	26.7829	24.9148	21.1285	24.2340	24.7609
3	15:29:37	83.2%	25.8881	25.2980	26.7275	24.4536	23.9207	24.4626	24.5993
x		84.5%	26.2208	26.2976	26.4815	24.9314	21.9762	24.7694	24.7587
σ		2.1%	0.4123	0.9620	0.4749	0.4862	1.6886	0.7384	0.1583
%RSD		2.5	1.5724	3.6582	1.7935	1.9503	7.6837	2.9810	0.6396
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	24.9627	24.9724	24.9979	25.1039	24.6899	25.2386	25.8660	25.6115
2	15:28:30	24.6110	24.6896	24.1641	25.0973	24.4974	24.3977	23.9586	25.5744
3	15:29:37	24.2428	24.5474	24.9030	25.1057	24.7763	24.8840	23.8518	25.2855
x		24.6055	24.7364	24.6883	25.1023	24.6545	24.8401	24.5588	25.4905
σ		0.3600	0.2163	0.4564	0.0044	0.1428	0.4222	1.1333	0.1785
%RSD		1.4631	0.8746	1.8488	0.0177	0.5791	1.6997	4.6146	0.7001
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.5349	25.7761	26.3354	26.3224	26.0049	84.7%	26.4648	26.0771
2	15:28:30	24.9451	25.2480	25.8908	25.2309	25.9803	84.2%	25.1105	26.3711
3	15:29:37	25.2183	25.1648	26.3505	26.5142	26.1396	82.8%	25.7961	26.4017
x		25.2328	25.3963	26.1922	26.0225	26.0416	83.9%	25.7904	26.2833
σ		0.2952	0.3315	0.2612	0.6922	0.0857	1.0%	0.6772	0.1792
%RSD		1.1697	1.3054	0.9972	2.6600	0.3292	1.2	2.6257	0.6818
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.7256	26.5245	86.5%	25.8763	25.7549	26.0066	89.0%	25.5152
2	15:28:30	24.9962	25.3180	86.5%	25.6758	25.9572	25.8066	87.9%	25.6308
3	15:29:37	25.0733	27.1509	85.2%	26.1698	26.4462	26.1201	85.8%	25.8766
x		25.2650	26.3311	86.1%	25.9073	26.0528	25.9778	87.6%	25.6742
σ		0.4007	0.9316	0.8%	0.2484	0.3554	0.1588	1.6%	0.1845
%RSD		1.5860	3.5380	0.9	0.9590	1.3642	0.6111	1.9	0.7188
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	25.4527	25.9108	25.9669	26.0008	89.9%	25.6246	25.6541	25.6827
2	15:28:30	25.4467	25.7093	25.4754	25.6532	90.9%	25.3084	25.4116	25.3014
3	15:29:37	25.5977	26.2822	25.8198	25.5587	90.5%	25.2194	25.3322	25.3315
x		25.4990	25.9674	25.7541	25.7376	90.4%	25.3841	25.4660	25.4385
σ		0.0855	0.2906	0.2523	0.2328	0.5%	0.2130	0.1677	0.2120
%RSD		0.3354	1.1192	0.9796	0.9045	0.5	0.8390	0.6585	0.8334
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:23	26.0292	25.9725	25.4595	25.5339	25.5167	94.4%	25.3447	25.4824
2	15:28:30	25.8909	25.6067	24.9652	25.1467	25.2545	96.3%	25.2679	25.3711
3	15:29:37	25.9958	25.6078	25.4192	25.1401	25.2985	96.4%	25.2731	25.3289
x		25.9720	25.7290	25.2813	25.2735	25.3565	95.7%	25.2952	25.3941
σ		0.0721	0.2109	0.2745	0.2255	0.1404	1.1%	0.0429	0.0793
%RSD		0.2777	0.8197	1.0857	0.8921	0.5538	1.2	0.1696	0.3123
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:27:23	25.4399	25.4741	25.4336	25.2683	98.3%	25.5334		
2	15:28:30	25.3942	25.2205	25.3236	25.1893	100.4%	25.4899		
3	15:29:37	25.4922	25.2871	25.3588	25.3014	101.0%	25.4948		
x		25.4421	25.3272	25.3720	25.2530	99.9%	25.5061		
σ		0.0490	0.1315	0.0562	0.0576	1.5%	0.0238		
%RSD		0.1927	0.5191	0.2215	0.2281	1.5	0.0934		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	88.1%	-0.0206	-0.0245	0.1169	-0.0120	0.9750	-0.0797	0.0210
2	15:38:57	82.9%	-0.0095	-0.0080	0.2037	-0.0045	5.3657	-0.0763	0.0073
3	15:40:05	81.4%	-0.0048	0.3488	0.1450	0.0064	-1.0329	0.0166	0.0157
X		84.1%	-0.0116	0.1054	0.1552	-0.0033	1.7693	-0.0465	0.0147
σ		3.5%	0.0082	0.2109	0.0443	0.0093	3.2724	0.0546	0.0070
%RSD		4.2	70.1347	200.0645	28.5561	276.7210	184.9573	117.6004	47.3798
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	-0.0115	-0.0342	0.0271	0.0079	-0.0033	-0.0105	-0.1345	0.8267
2	15:38:57	-0.0162	-0.0600	0.0187	0.0068	-0.0023	-0.0008	0.0183	0.9924
3	15:40:05	-0.0068	-0.0379	0.0052	0.0072	-0.0041	-0.0006	-0.0094	0.9110
X		-0.0115	-0.0440	0.0170	0.0073	-0.0033	-0.0039	-0.0419	0.9101
σ		0.0047	0.0140	0.0110	0.0006	0.0009	0.0056	0.0814	0.0828
%RSD		40.7186	31.6896	64.8127	7.6514	27.1742	143.3149	194.4943	9.1028
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0238	0.0026	0.0011	0.0092	0.0147	82.6%	0.0102	-0.0016
2	15:38:57	0.0347	0.0069	-0.0010	0.0103	0.0182	80.4%	-0.0248	0.0292
3	15:40:05	0.0318	-0.0016	0.0009	-0.0091	0.0251	79.6%	-0.0830	0.0069
X		0.0301	0.0026	0.0003	0.0035	0.0193	80.9%	-0.0325	0.0115
σ		0.0056	0.0042	0.0012	0.0109	0.0053	1.6%	0.0471	0.0159
%RSD		18.6530	160.6689	363.1154	313.0441	27.1851	1.9	144.7224	138.6204
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	-0.1711	0.0276	83.9%	0.0118	0.0090	0.0167	85.0%	0.0002
2	15:38:57	-0.3532	-0.0723	81.1%	0.0057	0.0273	0.0113	84.2%	-0.0005
3	15:40:05	-0.1522	-0.3046	81.7%	0.0057	0.0236	0.0055	83.2%	-0.0004
X		-0.2255	-0.1164	82.2%	0.0078	0.0200	0.0112	84.1%	-0.0002
σ		0.1110	0.1704	1.5%	0.0035	0.0097	0.0056	0.9%	0.0004
%RSD		49.2159	146.3838	1.8	45.1161	48.4364	50.1391	1.1	150.7882
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0006	0.0004	-0.0035	-0.0034	86.3%	-0.0503	-0.0161	-0.0279
2	15:38:57	-0.0005	-0.0006	-0.0059	-0.0010	85.8%	-0.0385	-0.0146	-0.0191
3	15:40:05	-0.0005	0.0004	-0.0014	-0.0001	84.5%	-0.0676	-0.0289	-0.0126
X		-0.0002	0.0001	-0.0036	-0.0015	85.5%	-0.0521	-0.0199	-0.0199
σ		0.0007	0.0006	0.0023	0.0017	1.0%	0.0146	0.0079	0.0077
%RSD		434.8874	576.5491	63.0425	116.7529	1.1	28.0864	39.6405	38.6864
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:37:50	0.0022	0.0006	-0.0088	-0.0079	-0.0090	89.9%	-0.0100	-0.0095
2	15:38:57	0.0025	0.0024	-0.0088	-0.0021	-0.0041	90.5%	-0.0066	-0.0079
3	15:40:05	0.0023	-0.0008	-0.0061	0.0009	-0.0054	91.3%	-0.0073	-0.0078
X		0.0024	0.0007	-0.0079	-0.0030	-0.0062	90.6%	-0.0080	-0.0084
σ		0.0002	0.0016	0.0016	0.0044	0.0025	0.7%	0.0018	0.0010
%RSD		6.6763	224.8461	19.6986	145.4615	41.0726	0.8	22.4918	11.4097
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:37:50	-0.0043	-0.0049	-0.0061	-0.0163	92.2%	-0.0081		
2	15:38:57	-0.0023	-0.0064	-0.0053	-0.0166	94.6%	-0.0094		
3	15:40:05	-0.0064	-0.0079	-0.0059	-0.0164	94.4%	-0.0079		
X		-0.0043	-0.0064	-0.0058	-0.0164	93.7%	-0.0085		
σ		0.0021	0.0015	0.0005	0.0001	1.3%	0.0008		
%RSD		47.6675	23.2974	7.9379	0.8177	1.4	9.5150		

K1010795-0015 11/9/2010 3:45:03 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	84.0%	20.3812	9.2676	10.0212	29.8824	42.2274	1.8625	258.0186
2	15:46:10	80.8%	19.9639	11.5564	10.6015	30.1387	38.3472	1.8968	258.7139
3	15:47:18	77.5%	20.0877	9.6831	10.8652	29.5049	38.8425	1.8255	259.5638
X		80.8%	20.1443	10.1690	10.4960	29.8420	39.8057	1.8616	258.7654
σ		3.2%	0.2143	1.2193	0.4318	0.3188	2.1118	0.0357	0.7739
%RSD		4.0	1.0640	11.9905	4.1139	1.0683	5.3054	1.9153	0.2991
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	21.3334	22.2587	22.3774	87.2434	19.6267	27.5350	36.7968	28.1004
2	15:46:10	21.9200	22.2432	21.8978	88.2254	19.9897	27.2910	38.6728	27.7049
3	15:47:18	21.4809	22.1351	22.6345	88.7674	19.8429	27.3904	36.9528	27.7998
X		21.5781	22.2123	22.3032	88.0788	19.8198	27.4055	37.4741	27.8684
σ		0.3051	0.0673	0.3739	0.7725	0.1826	0.1227	1.0410	0.2065
%RSD		1.4140	0.3030	1.6764	0.8771	0.9212	0.4476	2.7780	0.7409
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	21.1646	21.1569	24.0088	28.3046	27.3688	77.5%	22.2911	20.1929
2	15:46:10	20.9662	21.1576	24.1778	27.6024	26.9449	75.0%	22.0464	19.9932
3	15:47:18	21.0773	20.8412	24.2978	28.6002	27.1528	73.0%	22.1538	21.3583
X		21.0694	21.0519	24.1615	28.1691	27.1555	75.1%	22.1638	20.5148
σ		0.0994	0.1825	0.1452	0.5125	0.2120	2.3%	0.1226	0.7373
%RSD		0.4718	0.8668	0.6008	1.8194	0.7807	3.0	0.5534	3.5939
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	19.9089	19.7798	80.7%	23.6898	24.2539	24.3013	79.3%	19.9948
2	15:46:10	20.5795	19.8356	79.2%	23.6468	24.3978	24.0426	77.6%	20.2076
3	15:47:18	19.3328	20.9864	77.6%	23.5537	24.0971	24.0455	76.0%	20.2589
X		19.9404	20.2006	79.1%	23.6301	24.2496	24.1298	77.6%	20.1538
σ		0.6240	0.6811	1.5%	0.0696	0.1504	0.1486	1.6%	0.1401
%RSD		3.1291	3.3717	2.0	0.2944	0.6202	0.6157	2.1	0.6951
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	19.8834	20.5044	19.3999	19.6610	82.2%	5.9682	0.0805	0.0612
2	15:46:10	20.0226	20.4497	19.4681	19.7052	81.7%	5.9875	0.0713	0.0571
3	15:47:18	20.0103	20.6073	19.3908	19.7422	80.0%	5.9706	0.0453	0.0434
X		19.9721	20.5205	19.4196	19.7028	81.3%	5.9754	0.0657	0.0539
σ		0.0771	0.0800	0.0422	0.0406	1.1%	0.0105	0.0182	0.0093
%RSD		0.3858	0.3898	0.2175	0.2062	1.4	0.1763	27.7463	17.3276
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:45:03	20.7076	20.5319	139.3360	140.3504	144.6719	89.8%	19.6594	19.6934
2	15:46:10	20.6848	20.4154	140.4996	141.6463	143.8733	90.5%	19.7863	19.6940
3	15:47:18	21.0527	20.5607	140.1982	140.5188	143.4521	89.2%	19.7412	19.7621
X		20.8150	20.5027	140.0112	140.8385	143.9991	89.9%	19.7290	19.7165
σ		0.2062	0.0769	0.6039	0.7046	0.6196	0.6%	0.0644	0.0395
%RSD		0.9904	0.3753	0.4313	0.5003	0.4303	0.7	0.3262	0.2002
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:45:03	19.9799	19.9393	19.8487	-0.0148	93.4%	25.3545		
2	15:46:10	19.7557	19.7939	19.8081	-0.0142	95.2%	25.5629		
3	15:47:18	19.8558	19.9806	19.9063	-0.0141	95.1%	25.4218		
X		19.8638	19.9046	19.8544	-0.0144	94.5%	25.4464		
σ		0.1123	0.0980	0.0494	0.0004	1.0%	0.1063		
%RSD		0.5655	0.4925	0.2487	2.7371	1.1	0.4179		

K1010795-002 11/9/2010 3:55:33 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	81.4%	0.0065	5.6223	5.1722	5.3159	46.5377	1.7225	327.0408
2	15:56:40	76.7%	-0.0011	6.0627	5.4901	5.2696	48.4494	1.5249	326.1788
3	15:57:48	73.6%	-0.0125	5.7147	5.7951	5.5665	50.7799	1.3788	329.4118
x		77.2%	-0.0024	5.7999	5.4858	5.3840	48.5890	1.5421	327.5438
σ		3.9%	0.0095	0.2322	0.3115	0.1597	2.1246	0.1725	1.6741
%RSD		5.1	401.0726	4.0040	5.6779	2.9669	4.3726	11.1869	0.5111
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	4.7885	1.1816	1.2626	39.4464	0.2823	1.3901	16.0219	1.9098
2	15:56:40	4.8363	1.1466	1.2052	39.5538	0.2682	1.5347	15.6702	2.0688
3	15:57:48	4.7195	1.1742	1.2544	39.6053	0.2837	1.3801	14.1076	2.2204
x		4.7814	1.1675	1.2407	39.5352	0.2781	1.4350	15.2666	2.0663
σ		0.0587	0.0184	0.0311	0.0811	0.0086	0.0865	1.0190	0.1553
%RSD		1.2283	1.5794	2.5044	0.2051	3.0768	6.0287	6.6747	7.5161
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	1.2934	1.1349	7.2201	9.1572	8.6649	73.7%	0.9054	0.4529
2	15:56:40	1.3079	1.2354	7.1054	8.8583	8.4595	71.1%	0.7276	0.5004
3	15:57:48	1.3056	1.1228	7.4685	9.0938	8.9710	70.2%	0.8138	0.4827
x		1.3023	1.1644	7.2647	9.0364	8.6985	71.6%	0.8156	0.4787
σ		0.0078	0.0618	0.1856	0.1575	0.2574	1.8%	0.0889	0.0240
%RSD		0.6010	5.3070	2.5550	1.7427	2.9596	2.5	10.9026	5.0211
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	-0.4765	0.8768	77.4%	1.9646	1.8861	1.8408	76.1%	-0.0009
2	15:56:40	-0.4624	0.4812	75.9%	1.8459	1.8608	1.9279	74.4%	-0.0000
3	15:57:48	-0.5185	0.5959	75.4%	1.8975	1.9429	1.9286	73.1%	-0.0013
x		-0.4858	0.6513	76.2%	1.9026	1.8966	1.8991	74.5%	-0.0007
σ		0.0292	0.2035	1.1%	0.0595	0.0421	0.0505	1.5%	0.0006
%RSD		6.0085	31.2492	1.4	3.1274	2.2179	2.6590	2.0	87.9940
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	0.0002	0.0145	0.0166	0.0136	78.3%	-0.0125	-0.0022	-0.0001
2	15:56:40	0.0000	0.0136	0.0073	0.0142	77.8%	-0.0398	-0.0004	-0.0086
3	15:57:48	-0.0007	0.0271	0.0184	0.0175	77.0%	-0.0456	-0.0183	-0.0102
x		-0.0002	0.0184	0.0141	0.0151	77.7%	-0.0326	-0.0069	-0.0063
σ		0.0005	0.0075	0.0060	0.0021	0.7%	0.0177	0.0098	0.0055
%RSD		319.4644	40.8555	42.2878	14.1512	0.9	54.1925	141.9584	86.4714
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:55:33	0.0528	0.0547	59.0632	59.2021	60.2932	85.7%	0.0047	0.0045
2	15:56:40	0.0553	0.0561	58.5279	58.6897	59.4950	87.3%	0.0043	0.0065
3	15:57:48	0.0546	0.0544	58.7603	59.1715	60.0413	86.2%	0.0036	0.0076
x		0.0543	0.0551	58.7838	59.0211	59.9431	86.4%	0.0042	0.0062
σ		0.0013	0.0009	0.2685	0.2874	0.4081	0.9%	0.0006	0.0016
%RSD		2.3313	1.6784	0.4567	0.4870	0.6807	1.0	13.1991	25.1351
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:55:33	0.3090	0.3084	0.3018	-0.0186	89.0%	8.8437		
2	15:56:40	0.3018	0.3017	0.2948	-0.0172	91.4%	8.7321		
3	15:57:48	0.3033	0.3028	0.2977	-0.0163	90.8%	8.8471		
x		0.3047	0.3043	0.2981	-0.0174	90.4%	8.8076		
σ		0.0038	0.0036	0.0035	0.0011	1.3%	0.0654		
%RSD		1.2367	1.1901	1.1749	6.5717	1.4	0.7428		

K1010795-003 11/9/2010 4:05:20 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	78.9%	-0.0110	0.2308	0.1186	1.1541	5.8708	0.3914	0.0867
2	16:06:28	74.6%	-0.0029	0.1135	-0.0334	1.1203	2.3298	0.3201	0.0805
3	16:07:35	71.4%	-0.0121	-0.0225	-0.0426	1.1641	2.8736	0.2751	0.0828
x		74.9%	-0.0087	0.1073	0.0142	1.1461	3.6914	0.3289	0.0833
σ		3.8%	0.0050	0.1267	0.0905	0.0229	1.9069	0.0587	0.0031
%RSD		5.0	57.8186	118.1350	636.3125	2.0015	51.6591	17.8351	3.7361
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-0.0004	0.0279	0.0584	0.0257	-0.0133	0.0104	0.2073	0.4793
2	16:06:28	0.0124	0.0313	0.0242	0.0284	-0.0114	0.0189	0.0178	0.6205
3	16:07:35	-0.0020	0.0423	0.0702	0.0378	-0.0095	0.0055	0.3595	0.5658
x		0.0033	0.0339	0.0509	0.0306	-0.0114	0.0116	0.1949	0.5552
σ		0.0079	0.0075	0.0239	0.0064	0.0019	0.0068	0.1712	0.0712
%RSD		236.5484	22.2373	46.9561	20.8401	16.9175	58.6142	87.8508	12.8171
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.0831	0.1007	3.2430	3.2963	3.1086	75.1%	0.0505	-0.0758
2	16:06:28	0.0939	0.0930	3.2077	2.9631	3.1301	71.4%	-0.0700	0.0870
3	16:07:35	0.1046	0.0967	3.4009	2.7914	3.3121	69.1%	-0.1120	0.0181
x		0.0939	0.0968	3.2839	3.0169	3.1836	71.9%	-0.0438	0.0098
σ		0.0108	0.0039	0.1029	0.2567	0.1118	3.0%	0.0844	0.0817
%RSD		11.4710	4.0028	3.1331	8.5088	3.5126	4.2	192.5371	835.5006
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-1.2411	0.0991	75.6%	-0.0280	-0.0136	-0.0078	77.7%	-0.0012
2	16:06:28	-0.3801	-0.1558	74.5%	-0.0157	-0.0087	-0.0117	76.6%	-0.0016
3	16:07:35	-0.3911	-0.3716	71.7%	-0.0174	-0.0061	-0.0088	74.9%	-0.0011
x		-0.6707	-0.1428	73.9%	-0.0203	-0.0094	-0.0094	76.4%	-0.0013
σ		0.4939	0.2356	2.0%	0.0067	0.0038	0.0020	1.4%	0.0003
%RSD		73.6414	164.9948	2.7	32.8165	40.2857	21.0018	1.8	23.5495
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	-0.0021	0.0016	-0.0004	-0.0008	78.5%	-0.0283	-0.0252	-0.0215
2	16:06:28	-0.0003	0.0016	-0.0051	0.0005	78.5%	-0.0629	-0.0268	-0.0245
3	16:07:35	-0.0016	0.0005	-0.0007	0.0006	77.5%	-0.0676	-0.0287	-0.0338
x		-0.0013	0.0012	-0.0021	0.0001	78.2%	-0.0530	-0.0269	-0.0266
σ		0.0009	0.0006	0.0026	0.0008	0.6%	0.0215	0.0017	0.0064
%RSD		70.3684	49.1687	125.3696	1279.2896	0.8	40.5670	6.4950	24.0191
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:05:20	0.0026	0.0016	0.7660	0.7660	0.7724	85.5%	-0.0071	-0.0082
2	16:06:28	0.0008	0.0032	0.7738	0.7395	0.7742	86.6%	-0.0069	-0.0086
3	16:07:35	0.0014	-0.0003	0.7589	0.7893	0.7763	86.6%	-0.0088	-0.0092
x		0.0016	0.0015	0.7662	0.7649	0.7743	86.2%	-0.0076	-0.0087
σ		0.0009	0.0017	0.0074	0.0249	0.0020	0.7%	0.0011	0.0005
%RSD		59.0509	116.2363	0.9701	3.2605	0.2572	0.8	13.8104	5.6875
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:05:20	0.0009	-0.0013	-0.0018	-0.0180	89.4%	-0.0083		
2	16:06:28	0.0003	0.0004	-0.0020	-0.0178	90.9%	-0.0082		
3	16:07:35	-0.0040	-0.0030	-0.0027	-0.0184	90.8%	-0.0083		
x		-0.0009	-0.0013	-0.0021	-0.0181	90.4%	-0.0083		
σ		0.0027	0.0017	0.0005	0.0003	0.8%	0.0000		
%RSD		291.4764	136.0744	22.3039	1.6142	0.9	0.4441		

K1010850-001 11/9/2010 4:10:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	76.5%	-0.0129	8.4562	8.1062	12.4183	73.3257	1.5498	500.9632
2	16:11:39	72.9%	-0.0049	7.2651	8.6434	12.2592	72.9317	1.4852	501.6861
3	16:12:46	72.7%	-0.0098	8.8364	8.1817	11.7345	76.5098	1.0757	503.0562
x		74.0%	-0.0092	8.1859	8.3105	12.1373	74.2557	1.3702	501.9018
σ		2.2%	0.0040	0.8198	0.2908	0.3578	1.9620	0.2571	1.0630
%RSD		2.9	44.0328	10.0146	3.4996	2.9481	2.6422	18.7640	0.2118
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	1.4748	1.0691	1.7629	130.0609	0.8350	3.0979	22.0759	3.3072
2	16:11:39	1.5248	1.1429	1.5861	129.4474	0.8117	3.2215	22.3748	3.3310
3	16:12:46	1.4236	1.1257	1.7194	130.8170	0.8206	3.0728	22.0860	3.4568
x		1.4744	1.1126	1.6895	130.1084	0.8224	3.1307	22.1789	3.3650
σ		0.0506	0.0386	0.0921	0.6860	0.0117	0.0796	0.1697	0.0804
%RSD		3.4325	3.4677	5.4533	0.5273	1.4276	2.5433	0.7652	2.3897
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	1.1003	1.0407	6.8168	9.8486	9.3143	69.6%	0.9228	0.5143
2	16:11:39	1.1061	0.9093	6.8090	9.9276	9.2818	69.0%	0.9666	0.3631
3	16:12:46	1.0447	0.9565	6.9506	9.7999	9.5052	68.3%	0.9287	0.3410
x		1.0837	0.9688	6.8588	9.8587	9.3671	69.0%	0.9394	0.4061
σ		0.0339	0.0666	0.0796	0.0644	0.1207	0.6%	0.0237	0.0943
%RSD		3.1288	6.8709	1.1601	0.6537	1.2885	0.9	2.5281	23.2315
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	-0.8570	0.2859	74.9%	2.9020	2.9494	2.9331	72.6%	-0.0015
2	16:11:39	-0.7799	0.3831	73.7%	2.8674	3.0302	3.0214	70.8%	-0.0004
3	16:12:46	-0.8180	0.1595	73.4%	2.9518	3.0982	3.0589	70.6%	-0.0020
x		-0.8183	0.2762	74.0%	2.9071	3.0259	3.0045	71.3%	-0.0013
σ		0.0386	0.1121	0.8%	0.0424	0.0745	0.0646	1.1%	0.0008
%RSD		4.7121	40.5896	1.1	1.4597	2.4628	2.1491	1.6	65.0479
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	-0.0012	0.0130	0.0259	0.0173	74.7%	0.0374	0.0913	0.1145
2	16:11:39	-0.0004	0.0200	0.0179	0.0240	74.2%	0.0208	0.1014	0.1040
3	16:12:46	-0.0018	0.0200	0.0279	0.0225	74.5%	0.0167	0.0883	0.0947
x		-0.0011	0.0177	0.0239	0.0212	74.5%	0.0249	0.0937	0.1044
σ		0.0007	0.0041	0.0053	0.0035	0.2%	0.0110	0.0068	0.0099
%RSD		62.2724	22.9492	22.1930	16.4327	0.3	43.9278	7.2857	9.4647
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:10:31	0.0837	0.0886	103.5365	103.5536	104.6041	84.4%	0.0073	0.0133
2	16:11:39	0.0961	0.0919	103.8595	103.8162	105.9966	85.2%	0.0111	0.0122
3	16:12:46	0.0961	0.1079	104.8689	104.9529	106.5554	85.2%	0.0148	0.0072
x		0.0920	0.0961	104.0883	104.1076	105.7187	84.9%	0.0111	0.0109
σ		0.0072	0.0103	0.6951	0.7438	1.0049	0.5%	0.0038	0.0032
%RSD		7.7864	10.7338	0.6678	0.7144	0.9505	0.5	34.0766	29.5031
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:10:31	0.3519	0.3560	0.3495	-0.0167	87.8%	9.9561		
2	16:11:39	0.3465	0.3321	0.3383	-0.0162	90.4%	9.9326		
3	16:12:46	0.3510	0.3251	0.3389	-0.0151	90.3%	10.0184		
x		0.3498	0.3377	0.3422	-0.0160	89.5%	9.9690		
σ		0.0029	0.0162	0.0063	0.0008	1.5%	0.0443		
%RSD		0.8232	4.8059	1.8475	4.9305	1.6	0.4447		



K1010850-002 11/9/2010 4:18:01 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	77.5%	-0.0154	24.2072	23.2283	6.6701	26.9111	2.1802	177.9179
2	16:19:08	72.1%	-0.0097	23.7701	23.9831	7.6089	24.9567	1.6924	182.6297
3	16:20:15	69.7%	-0.0014	24.2745	24.0367	8.7408	26.4920	1.7517	182.9494
X		73.1%	-0.0088	24.0839	23.7493	7.6733	26.1200	1.8748	181.1657
σ		4.0%	0.0070	0.2739	0.4521	1.0368	1.0290	0.2662	2.8172
%RSD		5.5	79.7511	1.1371	1.9035	13.5122	3.9394	14.1988	1.5550
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	4.2031	0.7793	1.2330	21.0146	3.3148	1.3054	8.6075	1.6958
2	16:19:08	4.2198	0.7555	1.2759	21.7084	3.1808	1.3120	6.8568	1.9278
3	16:20:15	4.2307	0.7477	1.3361	21.4557	3.1655	1.3154	8.0090	1.9615
X		4.2178	0.7608	1.2817	21.3929	3.2204	1.3110	7.8244	1.8617
σ		0.0139	0.0164	0.0518	0.3512	0.0821	0.0051	0.8898	0.1447
%RSD		0.3301	2.1598	4.0437	1.6415	2.5507	0.3904	11.3725	7.7716
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	1.5106	0.7608	7.9355	11.1259	10.3961	70.2%	0.8309	0.3849
2	16:19:08	1.5315	0.7970	8.3371	10.6993	10.4855	67.1%	0.9562	0.4361
3	16:20:15	1.5514	0.7604	8.1239	11.2164	10.4021	67.5%	0.9502	0.4664
X		1.5312	0.7727	8.1322	11.0139	10.4279	68.3%	0.9124	0.4291
σ		0.0204	0.0210	0.2009	0.2762	0.0500	1.7%	0.0707	0.0412
%RSD		1.3317	2.7224	2.4709	2.5075	0.4791	2.5	7.7458	9.5952
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	-0.8668	0.2334	72.8%	0.6641	0.7174	0.6783	72.1%	-0.0020
2	16:19:08	-0.8357	0.7217	71.4%	0.6788	0.7362	0.7068	69.9%	-0.0022
3	16:20:15	-0.4556	0.4958	69.8%	0.7023	0.7125	0.6966	68.4%	-0.0033
X		-0.7194	0.4836	71.3%	0.6817	0.7220	0.6939	70.2%	-0.0025
σ		0.2289	0.2444	1.5%	0.0193	0.0125	0.0144	1.9%	0.0007
%RSD		31.8248	50.5285	2.1	2.8270	1.7340	2.0796	2.7	27.5590
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	-0.0007	0.0108	0.0038	0.0069	74.1%	-0.0543	-0.0206	-0.0369
2	16:19:08	-0.0023	0.0086	0.0033	0.0037	74.1%	-0.0783	-0.0462	-0.0590
3	16:20:15	-0.0017	0.0065	0.0118	0.0096	72.3%	-0.0805	-0.0598	-0.0579
X		-0.0016	0.0087	0.0063	0.0067	73.5%	-0.0710	-0.0422	-0.0513
σ		0.0008	0.0022	0.0048	0.0030	1.0%	0.0146	0.0199	0.0125
%RSD		52.8224	24.9071	75.9215	44.0969	1.4	20.4940	47.2197	24.3298
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:18:01	0.0474	0.0595	94.4707	94.7004	96.0045	82.1%	0.0114	0.0072
2	16:19:08	0.0477	0.0569	94.6487	94.6093	95.2257	83.3%	0.0041	0.0053
3	16:20:15	0.0505	0.0515	95.4212	95.2760	96.9048	83.6%	0.0074	0.0077
X		0.0485	0.0560	94.8469	94.8619	96.0450	83.0%	0.0076	0.0067
σ		0.0017	0.0041	0.5053	0.3615	0.8403	0.8%	0.0036	0.0013
%RSD		3.4573	7.3164	0.5327	0.3810	0.8749	0.9	47.5148	18.7307
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:18:01	0.0854	0.0729	0.0752	-0.0192	86.2%	4.2507		
2	16:19:08	0.0802	0.0778	0.0790	-0.0168	88.1%	4.2470		
3	16:20:15	0.0766	0.0743	0.0718	-0.0180	88.0%	4.2314		
X		0.0807	0.0750	0.0753	-0.0180	87.4%	4.2431		
σ		0.0044	0.0025	0.0036	0.0012	1.0%	0.0102		
%RSD		5.4720	3.3957	4.7332	6.6163	1.2	0.2412		

K1010850-003 11/9/2010 4:23:39 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	74.4%	-0.0126	14.7825	14.3965	2.2006	65.0079	1.3214	456.9771
2	16:24:47	71.1%	-0.0044	14.7549	14.8865	2.3588	71.6828	1.6317	449.6275
3	16:25:54	68.8%	-0.0037	16.5588	15.3038	2.1654	65.5823	1.2540	464.6538
x		71.5%	-0.0069	15.3654	14.8623	2.2416	67.4243	1.4024	457.0861
σ		2.8%	0.0049	1.0336	0.4541	0.1030	3.6991	0.2015	7.5137
%RSD		4.0	71.8382	6.7269	3.0556	4.5956	5.4863	14.3653	1.6438
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	3.9836	0.3201	1.2411	86.8444	0.5265	1.5028	20.8685	1.9704
2	16:24:47	3.8182	0.3211	1.1779	85.0193	0.5014	1.4777	17.9326	1.9106
3	16:25:54	4.0187	0.3450	1.1932	85.3586	0.4756	1.3680	16.5086	2.0629
x		3.9402	0.3287	1.2041	85.7408	0.5012	1.4495	18.4366	1.9813
σ		0.1071	0.0141	0.0330	0.9707	0.0254	0.0717	2.2232	0.0767
%RSD		2.7186	4.2912	2.7379	1.1321	5.0769	4.9434	12.0586	3.8734
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	1.7231	0.9698	13.1668	15.0746	15.0894	68.0%	0.6448	0.5113
2	16:24:47	1.6876	0.9891	13.1455	15.3078	14.9977	66.2%	0.2895	0.8315
3	16:25:54	1.6588	0.9293	12.8961	15.7306	14.9704	64.9%	0.4255	0.6570
x		1.6898	0.9627	13.0695	15.3710	15.0192	66.3%	0.4533	0.6666
σ		0.0322	0.0305	0.1505	0.3325	0.0623	1.5%	0.1793	0.1603
%RSD		1.9077	3.1680	1.1517	2.1633	0.4150	2.3	39.5494	24.0478
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	-1.1505	0.6594	71.6%	1.0181	1.0769	1.0694	69.3%	-0.0017
2	16:24:47	-0.8019	0.1245	71.3%	1.0620	1.0442	1.0638	68.3%	-0.0022
3	16:25:54	-0.3765	0.3653	69.4%	1.0227	1.1945	1.0154	66.8%	-0.0010
x		-0.7763	0.3831	70.8%	1.0343	1.1052	1.0496	68.1%	-0.0016
σ		0.3876	0.2679	1.2%	0.0241	0.0790	0.0297	1.2%	0.0006
%RSD		49.9334	69.9323	1.7	2.3316	7.1518	2.8274	1.8	36.0685
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	-0.0023	0.0124	0.0055	0.0173	72.1%	-0.0350	-0.0173	-0.0248
2	16:24:47	-0.0020	0.0101	0.0150	0.0108	71.5%	-0.0466	-0.0196	-0.0226
3	16:25:54	-0.0017	0.0114	0.0057	0.0156	71.5%	-0.0648	-0.0235	-0.0274
x		-0.0020	0.0113	0.0087	0.0145	71.7%	-0.0488	-0.0201	-0.0249
σ		0.0003	0.0011	0.0054	0.0034	0.3%	0.0150	0.0031	0.0024
%RSD		15.0455	9.9294	62.0917	23.1281	0.5	30.7515	15.6085	9.5870
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:23:39	0.0367	0.0311	92.7333	92.3096	93.7470	81.4%	0.0066	0.0060
2	16:24:47	0.0366	0.0308	92.5229	92.4333	93.8456	83.8%	0.0068	0.0086
3	16:25:54	0.0420	0.0347	91.2330	92.9929	93.5661	82.6%	0.0082	0.0079
x		0.0384	0.0322	92.1631	92.5786	93.7196	82.6%	0.0072	0.0075
σ		0.0031	0.0021	0.8123	0.3641	0.1418	1.2%	0.0009	0.0014
%RSD		8.0177	6.6756	0.8814	0.3933	0.1513	1.4	12.3899	18.3618
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:23:39	0.1562	0.1475	0.1543	-0.0159	85.6%	5.2533		
2	16:24:47	0.1585	0.1692	0.1589	-0.0156	86.9%	5.3000		
3	16:25:54	0.1624	0.1593	0.1552	-0.0158	87.8%	5.3271		
x		0.1590	0.1587	0.1561	-0.0158	86.8%	5.2935		
σ		0.0031	0.0109	0.0024	0.0002	1.1%	0.0374		
%RSD		1.9690	6.8503	1.5593	1.0049	1.3	0.7059		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	76.6%	-0.0129	0.3632	0.2428	0.6770	0.4865	0.3989	1.6891
2	16:30:34	71.9%	-0.0222	0.4054	0.1188	0.6487	0.2663	0.4037	1.7082
3	16:31:42	69.8%	-0.0118	0.4881	0.0455	0.6797	-0.3692	0.3681	1.7368
X		72.7%	-0.0156	0.4189	0.1357	0.6685	0.1278	0.3902	1.7114
σ		3.5%	0.0057	0.0636	0.0997	0.0172	0.4443	0.0193	0.0240
%RSD		4.8	36.6065	15.1753	73.5130	2.5679	347.5729	4.9519	1.4022
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	0.0090	0.0453	0.1326	0.0180	-0.0106	0.0030	0.2137	0.5624
2	16:30:34	0.0104	0.0363	0.0828	0.0253	-0.0121	0.0075	0.2459	0.5301
3	16:31:42	0.0180	0.0341	0.0676	0.0139	-0.0108	-0.0035	0.0082	0.6405
X		0.0124	0.0386	0.0943	0.0191	-0.0112	0.0023	0.1559	0.5777
σ		0.0049	0.0059	0.0340	0.0058	0.0008	0.0055	0.1289	0.0568
%RSD		39.1095	15.3912	35.9954	30.2440	7.0674	237.4689	82.7024	9.8246
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	0.0203	0.0197	0.3538	0.4029	0.3499	70.8%	0.0562	-0.0667
2	16:30:34	0.0295	0.0182	0.3445	0.3384	0.3564	68.4%	0.1276	-0.1141
3	16:31:42	0.0256	0.0213	0.3281	0.3517	0.3259	68.2%	-0.0137	-0.0321
X		0.0251	0.0197	0.3421	0.3643	0.3441	69.2%	0.0567	-0.0709
σ		0.0046	0.0015	0.0130	0.0340	0.0160	1.5%	0.0706	0.0412
%RSD		18.2392	7.8525	3.7966	9.3410	4.6586	2.1	124.5105	58.0295
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-1.5728	0.1394	73.0%	-0.0242	-0.0269	-0.0214	74.3%	-0.0026
2	16:30:34	-1.0601	0.3385	69.6%	-0.0261	-0.0077	-0.0264	72.5%	-0.0026
3	16:31:42	-0.8808	-0.0884	70.1%	-0.0291	-0.0261	-0.0275	72.1%	-0.0031
X		-1.1713	0.1298	70.9%	-0.0265	-0.0203	-0.0251	73.0%	-0.0027
σ		0.3592	0.2136	1.8%	0.0025	0.0109	0.0032	1.2%	0.0003
%RSD		30.6645	164.5397	2.6	9.2821	53.5551	12.8635	1.6	10.6509
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-0.0023	0.0017	-0.0043	0.0012	75.8%	-0.0412	0.0082	-0.0016
2	16:30:34	-0.0010	-0.0006	-0.0047	0.0017	74.8%	-0.0598	-0.0071	-0.0232
3	16:31:42	-0.0018	0.0006	-0.0001	0.0005	73.5%	-0.0498	-0.0278	-0.0292
X		-0.0017	0.0006	-0.0030	0.0011	74.7%	-0.0503	-0.0089	-0.0180
σ		0.0007	0.0011	0.0026	0.0006	1.2%	0.0093	0.0181	0.0145
%RSD		40.9256	196.7555	84.7923	54.4443	1.5	18.5787	203.6307	80.8671
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:29:27	-0.0004	-0.0011	0.3465	0.3309	0.3274	82.8%	-0.0079	-0.0089
2	16:30:34	-0.0001	-0.0002	0.2874	0.3328	0.3419	83.5%	-0.0082	-0.0081
3	16:31:42	0.0019	-0.0006	0.3255	0.3510	0.3384	83.9%	-0.0097	-0.0091
X		0.0005	-0.0006	0.3198	0.3382	0.3359	83.4%	-0.0086	-0.0087
σ		0.0013	0.0004	0.0300	0.0111	0.0075	0.6%	0.0010	0.0005
%RSD		274.6227	65.1310	9.3732	3.2833	2.2468	0.7	11.1439	5.5810
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:29:27	0.0030	-0.0010	0.0031	-0.0178	87.5%	-0.0074		
2	16:30:34	0.0082	0.0049	0.0066	-0.0178	88.5%	-0.0075		
3	16:31:42	0.0083	0.0043	0.0044	-0.0182	89.1%	-0.0098		
X		0.0065	0.0027	0.0047	-0.0180	88.3%	-0.0082		
σ		0.0030	0.0033	0.0018	0.0002	0.8%	0.0013		
%RSD		46.2479	119.2313	37.6843	1.3169	0.9	16.3020		

K1010899-001 11/9/2010 4:34:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	73.5%	-0.0099	51.2944	54.1345	2.4722	113.7170	1.5609	734.7089
2	16:35:39	72.8%	-0.0048	53.7937	53.1920	2.4992	108.7813	1.6117	738.8386
3	16:36:46	73.0%	-0.0098	51.1304	52.8040	2.3389	107.3954	1.8978	738.8359
X		73.1%	-0.0082	52.0728	53.3768	2.4368	109.9646	1.6901	737.4611
σ		0.4%	0.0029	1.4925	0.6842	0.0858	3.3228	0.1816	2.3835
%RSD		0.5	35.9116	2.8662	1.2819	3.5212	3.0217	10.7466	0.3232
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	2.6069	0.8904	3.0916	17.7638	0.2819	1.8679	30.7410	2.4808
2	16:35:39	2.7014	0.9198	2.9886	18.0802	0.2588	2.0689	28.7378	2.5490
3	16:36:46	2.6939	0.8650	2.8454	18.0800	0.2596	1.8577	28.7763	2.8736
X		2.6674	0.8917	2.9752	17.9747	0.2668	1.9315	29.4184	2.6345
σ		0.0525	0.0274	0.1236	0.1826	0.0131	0.1191	1.1456	0.2099
%RSD		1.9691	3.0734	4.1554	1.0160	4.9187	6.1648	3.8941	7.9669
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	4.4326	1.9284	6.9989	22.8769	18.6099	66.6%	0.9576	1.7952
2	16:35:39	4.5232	1.9967	7.0846	23.2007	18.8368	65.3%	0.8536	1.1711
3	16:36:46	4.3906	2.0055	6.8497	22.4072	18.5573	66.0%	0.8345	2.2385
X		4.4488	1.9769	6.9777	22.8283	18.6680	66.0%	0.8819	1.7349
σ		0.0677	0.0422	0.1189	0.3990	0.1486	0.7%	0.0662	0.5363
%RSD		1.5226	2.1347	1.7033	1.7477	0.7958	1.0	7.5091	30.9102
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	-0.1706	1.2290	71.1%	0.2417	0.3065	0.2601	66.6%	-0.0007
2	16:35:39	0.2578	0.1628	72.4%	0.2731	0.2749	0.2920	67.4%	-0.0025
3	16:36:46	-0.6552	0.9317	72.5%	0.2917	0.3112	0.2844	67.8%	-0.0002
X		-0.1894	0.7745	72.0%	0.2688	0.2975	0.2788	67.3%	-0.0011
σ		0.4568	0.5502	0.7%	0.0253	0.0197	0.0167	0.6%	0.0012
%RSD		241.2342	71.0381	1.0	9.4077	6.6292	5.9881	0.9	104.8783
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	0.0022	0.0310	0.0061	0.0229	69.9%	-0.1023	-0.0973	-0.1010
2	16:35:39	-0.0002	0.0317	0.0093	0.0186	71.1%	-0.1460	-0.1077	-0.1032
3	16:36:46	-0.0014	0.0172	0.0137	0.0168	72.1%	-0.1246	-0.1105	-0.1204
X		0.0002	0.0266	0.0097	0.0195	71.0%	-0.1243	-0.1052	-0.1082
σ		0.0018	0.0082	0.0038	0.0031	1.1%	0.0218	0.0069	0.0106
%RSD		1122.1312	30.7937	39.2457	16.1769	1.6	17.5429	6.6077	9.8398
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:31	0.0523	0.0464	500.0742	505.3300	521.7947	80.8%	0.0100	0.0085
2	16:35:39	0.0604	0.0553	496.6192	505.2785	512.9684	82.7%	0.0093	0.0095
3	16:36:46	0.0473	0.0525	498.6705	502.5107	512.2303	83.1%	0.0119	0.0065
X		0.0533	0.0514	498.4546	504.3731	515.6645	82.2%	0.0104	0.0082
σ		0.0066	0.0046	1.7376	1.6130	5.3217	1.3%	0.0014	0.0016
%RSD		12.4577	8.8883	0.3486	0.3198	1.0320	1.5	13.0162	19.0345
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:34:31	0.2030	0.2020	0.2008	0.0022	83.9%	5.3470		
2	16:35:39	0.1989	0.1903	0.1983	0.0019	86.8%	5.2856		
3	16:36:46	0.2131	0.1848	0.2017	-0.0010	87.7%	5.2669		
X		0.2050	0.1924	0.2003	0.0011	86.1%	5.2998		
σ		0.0073	0.0088	0.0018	0.0018	2.0%	0.0419		
%RSD		3.5743	4.5549	0.8791	165.4755	2.3	0.7913		

K1010899-002 11/9/2010 4:39:39 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	83.4%	-0.0095	1.3980	1.2766	1.1637	-3.5076	0.4403	0.2406
2	16:40:47	77.8%	-0.0038	1.2307	0.9246	1.1171	-2.4771	0.2849	0.4654
3	16:41:54	76.3%	-0.0224	0.9439	0.6493	1.1368	-1.6538	0.4159	0.2948
x		79.2%	-0.0119	1.1909	0.9502	1.1392	-2.5462	0.3804	0.3336
σ		3.8%	0.0095	0.2297	0.3145	0.0234	0.9288	0.0835	0.1173
%RSD		4.8	79.9611	19.2859	33.0946	2.0540	36.4790	21.9643	35.1697
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-0.0023	0.0286	0.4043	0.0368	-0.0077	0.0508	0.4265	0.8499
2	16:40:47	0.0097	0.0244	0.2782	0.0437	-0.0120	0.0731	0.0377	0.8125
3	16:41:54	0.0152	0.0403	0.2276	0.0252	-0.0103	0.0806	0.1298	0.7648
x		0.0075	0.0311	0.3034	0.0352	-0.0100	0.0682	0.1980	0.8091
σ		0.0090	0.0082	0.0910	0.0094	0.0022	0.0155	0.2032	0.0427
%RSD		119.0941	26.3834	29.9876	26.5555	21.5906	22.7462	102.6248	5.2761
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	0.1128	0.0997	5.1102	4.3606	4.9310	74.5%	-0.1586	0.0506
2	16:40:47	0.1028	0.0886	4.7825	4.8076	4.7276	73.4%	0.0249	0.0572
3	16:41:54	0.0980	0.0952	4.9892	4.9028	4.9912	71.6%	-0.1417	0.0112
x		0.1045	0.0945	4.9606	4.6904	4.8833	73.2%	-0.0918	0.0397
σ		0.0075	0.0056	0.1657	0.2895	0.1381	1.5%	0.1014	0.0249
%RSD		7.1944	5.9085	3.3402	6.1718	2.8283	2.0	110.4784	62.6893
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-1.0126	-0.6863	75.7%	-0.0317	-0.0250	-0.0304	77.8%	-0.0032
2	16:40:47	-0.8377	0.0641	73.2%	-0.0309	-0.0270	-0.0267	74.5%	-0.0021
3	16:41:54	-0.9361	-0.5324	72.2%	-0.0298	-0.0284	-0.0306	74.9%	-0.0026
x		-0.9288	-0.3849	73.7%	-0.0308	-0.0268	-0.0292	75.7%	-0.0026
σ		0.0877	0.3964	1.8%	0.0009	0.0017	0.0022	1.8%	0.0005
%RSD		9.4404	102.9851	2.4	2.9801	6.3929	7.5900	2.4	20.4440
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	-0.0024	0.0016	0.0050	0.0023	77.2%	-0.0454	-0.0108	-0.0075
2	16:40:47	-0.0013	0.0016	-0.0006	0.0020	76.7%	-0.0201	-0.0107	-0.0209
3	16:41:54	-0.0023	0.0005	0.0005	0.0007	76.4%	-0.0607	-0.0126	-0.0123
x		-0.0020	0.0013	0.0016	0.0017	76.8%	-0.0420	-0.0113	-0.0136
σ		0.0006	0.0006	0.0030	0.0009	0.4%	0.0205	0.0011	0.0068
%RSD		30.9714	49.3574	182.1079	52.9574	0.6	48.7855	9.2774	50.3261
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:39:39	0.0011	-0.0011	0.1712	0.1798	0.1653	84.1%	-0.0082	-0.0070
2	16:40:47	0.0014	-0.0003	0.2591	0.2533	0.2454	85.4%	-0.0064	-0.0074
3	16:41:54	-0.0004	-0.0011	0.1491	0.1967	0.1819	83.5%	-0.0094	-0.0083
x		0.0007	-0.0008	0.1932	0.2099	0.1975	84.3%	-0.0080	-0.0076
σ		0.0010	0.0005	0.0582	0.0385	0.0423	1.0%	0.0015	0.0006
%RSD		142.7502	56.5888	30.1172	18.3335	21.3982	1.2	19.0418	8.2904
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:39:39	-0.0003	-0.0023	-0.0018	-0.0193	87.6%	-0.0077		
2	16:40:47	0.0005	-0.0022	-0.0009	-0.0170	88.4%	-0.0061		
3	16:41:54	-0.0003	-0.0006	-0.0012	-0.0185	89.4%	-0.0084		
x		-0.0000	-0.0017	-0.0013	-0.0183	88.5%	-0.0074		
σ		0.0004	0.0010	0.0005	0.0012	0.9%	0.0012		
%RSD		1209.2988	55.4729	37.0712	6.3454	1.0	15.6482		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	79.3%	26.5351	26.3548	24.9900	24.0963	25.6945	23.9820	23.9117
2	16:45:54	75.4%	26.3883	27.7193	25.5214	23.8406	19.8513	24.4880	24.7340
3	16:47:02	73.1%	27.1114	27.8198	27.4602	24.4921	24.6232	23.3001	25.0046
x		75.9%	26.6783	27.2980	25.9905	24.1430	23.3897	23.9233	24.5501
σ		3.1%	0.3822	0.8183	1.3002	0.3282	3.1108	0.5961	0.5692
%RSD		4.1	1.4327	2.9977	5.0026	1.3595	13.2998	2.4918	2.3184
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	24.1649	24.5569	25.2706	24.8707	24.8217	25.3760	26.1004	25.1589
2	16:45:54	24.2810	24.6374	24.7757	24.9835	24.8391	24.8987	23.5191	25.4990
3	16:47:02	24.3156	24.7699	25.5692	25.2278	24.9609	25.5043	26.8370	25.5286
x		24.2538	24.6547	25.2052	25.0273	24.8739	25.2597	25.4855	25.3955
σ		0.0790	0.1076	0.4008	0.1825	0.0758	0.3191	1.7423	0.2055
%RSD		0.3256	0.4363	1.5902	0.7293	0.3049	1.2633	6.8365	0.8091
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.4140	25.5579	25.8278	26.4164	26.5663	73.0%	25.4310	26.7902
2	16:45:54	25.5033	25.4427	26.4773	27.2530	26.2475	70.2%	25.7465	24.5364
3	16:47:02	25.2108	25.6170	26.2254	25.6351	25.9989	69.8%	25.7478	25.6314
x		25.3760	25.5392	26.1768	26.4348	26.2709	71.0%	25.6418	25.6527
σ		0.1499	0.0887	0.3275	0.8091	0.2844	1.7%	0.1825	1.1271
%RSD		0.5906	0.3472	1.2509	3.0606	1.0826	2.4	0.7118	4.3936
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	24.7696	25.3446	73.4%	25.9819	26.0375	25.6546	76.1%	25.6298
2	16:45:54	25.1316	26.1017	73.0%	26.1722	26.7828	26.2336	73.6%	25.9849
3	16:47:02	25.7720	25.4551	70.8%	26.6749	26.4901	26.2652	73.5%	25.9428
x		25.2244	25.6338	72.4%	26.2763	26.4368	26.0511	74.4%	25.8525
σ		0.5076	0.4090	1.4%	0.3580	0.3755	0.3438	1.5%	0.1940
%RSD		2.0124	1.5955	1.9	1.3625	1.4203	1.3196	2.0	0.7506
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.7288	26.5819	25.9044	25.6738	77.7%	25.3863	25.5056	25.4935
2	16:45:54	25.8796	26.0111	26.1885	26.0309	77.5%	25.4993	25.5847	25.4969
3	16:47:02	25.6227	26.0699	26.3000	26.0698	77.1%	25.6526	25.7512	25.5239
x		25.7437	26.2210	26.1309	25.9248	77.4%	25.5127	25.6138	25.5048
σ		0.1291	0.3139	0.2040	0.2183	0.3%	0.1337	0.1253	0.0167
%RSD		0.5016	1.1973	0.7807	0.8419	0.4	0.5239	0.4894	0.0653
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:47	25.8214	25.6610	24.6716	25.0048	25.0979	84.1%	25.2495	25.0545
2	16:45:54	25.9953	25.9488	25.3404	25.3599	25.1004	84.4%	25.4170	25.4505
3	16:47:02	26.0770	25.9643	25.0652	25.3568	25.1375	84.5%	25.5372	25.5904
x		25.9646	25.8580	25.0257	25.2405	25.1119	84.3%	25.4013	25.3651
σ		0.1306	0.1708	0.3361	0.2041	0.0222	0.2%	0.1445	0.2780
%RSD		0.5029	0.6607	1.3432	0.8086	0.0884	0.2	0.5688	1.0959
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:44:47	25.2612	25.2293	25.2750	25.2861	88.9%	25.5202		
2	16:45:54	25.3870	25.5816	25.4929	25.4464	90.3%	25.7001		
3	16:47:02	25.6058	25.7073	25.6279	25.5999	90.8%	25.7469		
x		25.4180	25.5061	25.4652	25.4441	90.0%	25.6557		
σ		0.1744	0.2478	0.1781	0.1569	1.0%	0.1197		
%RSD		0.6860	0.9715	0.6992	0.6166	1.1	0.4664		

CCB4 11/9/2010 4:55:14 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	27Al	46Ti	47Ti	48Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	76.0%	-0.0128	0.0201	0.0364	-0.0061	6.8444	-0.0221	-0.0056
2	16:56:22	72.1%	-0.0071	0.5272	0.1064	0.0082	-4.1363	-0.0162	0.0122
3	16:57:29	70.6%	-0.0094	-0.0501	-0.0195	-0.0083	1.7793	0.1157	-0.0025
x		72.9%	-0.0098	0.1657	0.0411	-0.0021	1.4958	0.0258	0.0014
σ		2.8%	0.0029	0.3150	0.0631	0.0090	5.4959	0.0779	0.0095
%RSD		3.8	29.2179	190.0656	153.5453	437.3939	367.4204	302.3616	682.4866
Run	Time	51V	52Cr	53Cr	55Mn	59Co	60Ni	61Ni	62Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.0347	-0.0381	0.1325	-0.0014	-0.0107	-0.0056	0.3956	0.5071
2	16:56:22	-0.0185	-0.0473	0.0810	0.0006	-0.0146	-0.0128	-0.0226	0.4709
3	16:57:29	-0.0255	-0.0742	0.0736	0.0011	-0.0094	-0.0013	0.1894	0.5324
x		-0.0262	-0.0532	0.0957	0.0001	-0.0116	-0.0066	0.1875	0.5035
σ		0.0081	0.0188	0.0321	0.0014	0.0027	0.0058	0.2091	0.0309
%RSD		30.9626	35.2691	33.5589	1279.2801	23.5407	88.4838	111.5311	6.1352
Run	Time	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As	77Se
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	0.0184	0.0007	-0.0140	0.0168	0.0046	68.7%	0.0127	-0.0601
2	16:56:22	0.0180	0.0042	0.0166	-0.0170	0.0235	66.5%	0.0368	-0.0824
3	16:57:29	0.0220	0.0029	0.0187	-0.0051	0.0086	66.2%	0.0316	0.1428
x		0.0195	0.0026	0.0071	-0.0018	0.0122	67.1%	0.0270	0.0001
σ		0.0022	0.0018	0.0183	0.0171	0.0100	1.4%	0.0126	0.1241
%RSD		11.3482	69.2818	257.2641	962.9619	81.5421	2.1	46.7570	127082.0500
Run	Time	78Se	82Se	89Y	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.9332	-0.0111	69.8%	0.0122	0.0062	0.0158	72.0%	-0.0015
2	16:56:22	-0.4662	0.0474	68.2%	0.0291	0.0193	0.0183	71.8%	-0.0012
3	16:57:29	-0.8423	0.2065	68.5%	0.0232	0.0398	0.0257	71.3%	-0.0020
x		-0.7473	0.0810	68.8%	0.0215	0.0218	0.0199	71.7%	-0.0015
σ		0.2476	0.1126	0.9%	0.0086	0.0169	0.0052	0.4%	0.0004
%RSD		33.1372	139.0498	1.3	39.9463	77.7720	25.9755	0.6	25.5100
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	116Sn	118Sn	120Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	-0.0001	0.0006	-0.0012	-0.0023	73.2%	-0.0415	-0.0180	-0.0385
2	16:56:22	0.0026	0.0017	-0.0035	0.0023	73.8%	-0.0567	-0.0461	-0.0248
3	16:57:29	0.0030	0.0018	-0.0090	-0.0022	71.7%	-0.0658	-0.0363	-0.0377
x		0.0019	0.0014	-0.0045	-0.0007	72.9%	-0.0547	-0.0335	-0.0337
σ		0.0017	0.0007	0.0040	0.0026	1.0%	0.0122	0.0143	0.0077
%RSD		92.0454	49.1977	88.5512	372.9766	1.4	22.4039	42.7387	22.8523
Run	Time	121Sb	123Sb	135Ba	137Ba	138Ba	175Lu	203Tl	205Tl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:55:14	0.0036	0.0007	-0.0093	-0.0068	-0.0077	80.1%	-0.0090	-0.0081
2	16:56:22	0.0025	0.0023	-0.0051	0.0004	-0.0018	81.6%	-0.0058	-0.0075
3	16:57:29	0.0013	0.0020	0.0012	-0.0058	-0.0040	81.6%	-0.0091	-0.0055
x		0.0025	0.0016	-0.0044	-0.0041	-0.0045	81.1%	-0.0080	-0.0070
σ		0.0011	0.0009	0.0053	0.0039	0.0030	0.8%	0.0019	0.0013
%RSD		45.6502	52.9067	119.8593	96.4616	66.9599	1.0	23.8972	19.0061
Run	Time	206Pb	207Pb	208Pb	209Bi	232Th	238U		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:55:14	-0.0059	-0.0082	-0.0073	-0.0176		84.9%		-0.0082
2	16:56:22	-0.0063	-0.0046	-0.0053	-0.0140		85.9%		-0.0061
3	16:57:29	-0.0063	-0.0084	-0.0066	-0.0156		85.9%		-0.0073
x		-0.0062	-0.0071	-0.0064	-0.0157		85.6%		-0.0072
σ		0.0002	0.0021	0.0010	0.0018		0.6%		0.0011
%RSD		3.4187	29.6737	15.6846	11.7359		0.7		14.6602

November 12, 2010

Analytical Report for Service Request No: K1010899

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglur Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on October 02, 2010. For your reference, these analyses have been assigned our service request number K1010899.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [MShelton@caslab.com](mailto:MShelton@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Mike Shelton  
Project Chemist

MS/ln

Page 1 of 940



## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc.**  
**Kelso, WA**  
**State Certifications, Accreditations, and Licenses**

<b>Program</b>	<b>Number</b>
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



## **Case Narrative**

COLUMBIA ANALYTICAL SERVICES, INC.

**Client:** Exponent  
**Project:** Hegler Kronquist  
**Sample Matrix:** water

**Service Request No.:** K1010899  
**Date Received:** 10/2/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One water sample and a equipment blank were received for analysis at Columbia Analytical Services on 10/2/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

**Matrix Spike Recovery Exceptions:**

The control criteria for matrix spike recovery of Calcium for the Batch QC sample were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

**Calibration Verification Exceptions:**

The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Decachlorobiphenyl in CCV 1011F005, 1011F017. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

**Sample Notes and Discussion:**

These samples were extracted as regular level PCBs, which is spiked higher than Low Level samples. The samples were analyzed twice, once as low level to achieve the lower detection limits. They were also reanalyzed at a dilution in order to get the surrogate and spiked analytes into the calibration range

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 624

No anomalies associated with the analysis of these samples were observed.

Approved by Mike Shull Date 11/12/10

## **Chain of Custody**



1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

# 196659 CHAIN OF CUSTODY

COC Set \_\_\_\_\_ of \_\_\_\_\_ SR# K1010899  
Page 1 OF 1 COC# \_\_\_\_\_

Project Name: Heidar Kronquist  
Project Number: 0907194.DTD.A001  
Project Manager: Melissa Klevan  
Company Name: 15375 SE 30th Pl  
Company Address: Suite 250  
City/State/Zip: Belleveur, WA 98007  
E-Mail Address: MKlevan@exponent.com  
Phone #: (425) 519-8774 (425) 519-8759  
Sampler Signature: Kevin Kresak, ABCARD

Sample ID	Date	Time	Lab ID	Matrix	Number of Containers													
					48H	7D	14D	28D	180D									
1	10/1/10	0950	W10	X	X	X	X	X	X	X	X	X	X					
2	10/1/10	1045	W10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		

Sample ID	Date	Time	Lab ID	Matrix	353.2 / NO2	353.2 / NO3	608 Modified / PCB	SM 2540 C / TDS	624 / VOC_FP	SM 2320 B / Alkalinity Titr	SM 2320 B / Bicarb Alk	SM 2320 B / Carbonate Alk	SM 2320 B / Hydroxide Alk	300.0 / Chloride	300.0 / F	300.0 / SO4	350.1 / Ammonia D	200.7 / Metals D	200.8 / Metals D	
1	10/1/10	0950	W10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	10/1/10	1045	W10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				

Remarks

1 Contains analytes  
2 W/48-hr hold.  
3  
4  
5  
6  
7  
8  
9  
10  
11

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg  
Dissolved Metals: Al As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg  
Special Instructions/Comments: \*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other (Circle One)

**Report Requirements**  
 I. Routine Report: Method Blank, Surrogate, as required  
 II. Report Dup., MS, MSD as required  
 III. Data Validation Report (Includes all raw data)  
 IV. CLP Deliverable Report  
 V. EDD

**Invoice Information**  
P.O.# SAVE AS  
Bill To: ABOVE  
**Turnaround Requirements**  
24 hr. \_\_\_\_\_ 48 hr. \_\_\_\_\_  
 Standard (10-15 working days)  
 Provide Fax Results

Sample Shipment contains USDA regulated soil samples (check box if applicable)

Relinquished By: <u>Kevin Kresak</u> 10/1/10 1430 Signature: <u>Kevin Kresak</u> Printed Name: <u>Kevin Kresak</u> Date/Time: <u>10/1/10 1430</u> Firm: <u>ABCARD</u>	Received By: <u>John Moore</u> 10/1/10 0940 Signature: <u>John Moore</u> Printed Name: <u>John Moore</u> Date/Time: <u>10/1/10 0940</u> Firm: <u>ABCARD</u>	Relinquished By: _____ Signature: _____ Printed Name: _____ Date/Time: _____ Firm: _____	Received By: _____ Signature: _____ Printed Name: _____ Date/Time: _____ Firm: _____
---	---	--	--

Columbia Analytical Services, Inc.  
Cooler Receipt and Preservation Form

PC MS

Client / Project: Arceadis Service Request K10 10899

Received: 10/2/10 Opened: 10/2/10 By: JA

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other \_\_\_\_\_ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 from L
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
<u>-0.3</u>	<u>2.1</u>	<u>259</u>					✓

4. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other \_\_\_\_\_
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Did not see Trip Blank listed on COC-



## **General Chemistry Parameters**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Chloride

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	20	3	100	10/07/10	788	
Equipment Blank	K1010899-002	0.20	0.03	1	10/06/10	ND	
Method Blank	K1010899-MB	0.20	0.03	1	10/07/10	ND	
Method Blank	K1010899-MB	0.20	0.03	1	10/06/10	ND	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
				Sample Result	Average		
Chloride	300.0	0.40	2.46	2.52	2.49	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011162-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
				Sample Result	Average		
Chloride	300.0	0.40	11.3	12.0	11.7	6	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000,0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Chloride	300.0	0.40	4.00	2.46	6.34	97	80-120	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011162-003MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Chloride	300.0	1.0	10.0	11.3	19.4	81	80-120	

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007MS                      K1011079-007DMS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	0.40	4.00	4.00	2.46	6.34	6.52	97	102	80-120	3	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011162-003MS K1011162-003DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	1.0	10.0	10.0	11.3	19.4	20.1	81	88	80-120	3	



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Laboratory Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	NONE	300.0	5.00	4.93	99	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Laboratory Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	NONE	300.0	5.00	4.99	100	90-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

### CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.74	95
CCV2 Result	10/6/2010	5.00	4.75	95
CCV3 Result	10/6/2010	5.00	4.78	96
CCV4 Result	10/6/2010	5.00	4.80	96
CCV5 Result	10/6/2010	5.00	4.74	95
CCV1 Result	10/7/2010	5.00	4.80	96
CCV2 Result	10/7/2010	5.00	4.85	97
CCV3 Result	10/7/2010	5.00	4.81	96
CCV4 Result	10/7/2010	5.00	4.82	96
CCV5 Result	10/7/2010	5.00	4.79	96
CCV6 Result	10/7/2010	5.00	4.75	95
CCV6 Result	10/7/2010	5.00	4.77	95
CCV7 Result	10/7/2010	5.00	4.77	95
CCV7 Result	10/7/2010	5.00	4.75	95
CCV8 Result	10/7/2010	5.00	4.80	96
CCV8 Result	10/8/2010	5.00	4.78	96
CCV9 Result	10/8/2010	5.00	4.77	95

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB1 Result	10/7/2010	0.20	ND
CCB2 Result	10/7/2010	0.20	ND
CCB3 Result	10/7/2010	0.20	ND
CCB4 Result	10/7/2010	0.20	ND
CCB5 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND
CCB8 Result	10/8/2010	0.20	ND
CCB9 Result	10/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Fluoride

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	0.40	0.01	2	10/06/10	0.13	J
Equipment Blank	K1010899-002	0.20	0.01	1	10/06/10	ND	
Method Blank	K1010899-MB	0.20	0.01	1	10/06/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** DRINKING WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010966-002DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate		Relative Percent Difference	Result Notes
				Sample Result	Average		
Fluoride	300.0	0.40	0.94	0.94	0.94	<1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** DRINKING WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010966-002MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Fluoride	300.0	0.40	4.00	0.94	5.59	116	80-120	

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** DRINKING WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L  
 Lab Code : K1010966-002MS K1010966-002DMS Basis : NA  
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Fluoride	NONE	300.0	0.40	4.00	4.00	0.94	5.59	5.57	116	116	80-120	<1	



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Fluoride	NONE	300.0	11.0	11.9	108	90-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	5.29	106
CCV2 Result	10/6/2010	5.00	5.32	106
CCV3 Result	10/6/2010	5.00	5.27	105
CCV4 Result	10/6/2010	5.00	5.34	107
CCV5 Result	10/6/2010	5.00	5.25	105
CCV6 Result	10/7/2010	5.00	5.29	106
CCV7 Result	10/7/2010	5.00	5.25	105
CCV8 Result	10/7/2010	5.00	5.28	106

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Sulfate

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	2.0	0.1	10	10/07/10	30.1	
Equipment Blank	K1010899-002	0.20	0.01	1	10/06/10	ND	
Method Blank	K1010899-MB	0.20	0.01	1	10/07/10	ND	
Method Blank	K1010899-MB	0.20	0.01	1	10/06/10	ND	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1011079-007DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Sulfate	300.0	0.40	3.18	3.17	3.18	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011162-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	300.0	0.40	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011079-007MS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Sulfate	300.0	0.40	4.00	3.18	7.27	102	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1011162-003MS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Sulfate	300.0	1.0	10.0	ND	9.8	98	80-120	



**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L  
 Lab Code : K1011079-007MS K1011079-007DMS Basis : NA  
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	NONE	300.0	0.40	4.00	4.00	3.18	7.27	7.31	102	103	80-120	<1	

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/07/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1011162-003MS K1011162-003DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	NONE	300.0	1.0	10.0	10.0	ND	9.8	9.6	98	96	80-120	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	NONE	300.0	5.00	5.07	101	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	NONE	300.0	5.00	5.14	103	90-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	5.00	4.84	97
CCV2 Result	10/6/2010	5.00	4.87	97
CCV3 Result	10/6/2010	5.00	4.83	97
CCV4 Result	10/6/2010	5.00	4.88	98
CCV5 Result	10/6/2010	5.00	4.83	97
CCV1 Result	10/7/2010	5.00	4.89	98
CCV2 Result	10/7/2010	5.00	4.94	99
CCV3 Result	10/7/2010	5.00	4.90	98
CCV4 Result	10/7/2010	5.00	4.91	98
CCV5 Result	10/7/2010	5.00	4.91	98
CCV6 Result	10/7/2010	5.00	4.86	97
CCV6 Result	10/7/2010	5.00	4.89	98
CCV7 Result	10/7/2010	5.00	4.83	97
CCV7 Result	10/7/2010	5.00	4.86	97
CCV8 Result	10/7/2010	5.00	4.84	97
CCV8 Result	10/8/2010	5.00	4.87	97
CCV9 Result	10/8/2010	5.00	4.82	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.20	ND
CCB2 Result	10/6/2010	0.20	ND
CCB3 Result	10/6/2010	0.20	ND
CCB4 Result	10/6/2010	0.20	ND
CCB5 Result	10/6/2010	0.20	ND
CCB1 Result	10/7/2010	0.20	ND
CCB2 Result	10/7/2010	0.20	ND
CCB3 Result	10/7/2010	0.20	ND
CCB4 Result	10/7/2010	0.20	ND
CCB5 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB6 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB7 Result	10/7/2010	0.20	ND
CCB8 Result	10/7/2010	0.20	ND
CCB8 Result	10/8/2010	0.20	ND
CCB9 Result	10/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Ammonia as Nitrogen, Dissolved

Analysis Method : 350.1  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	0.050	0.020	1	10/13/10	ND	
Equipment Blank	K1010899-002	0.050	0.020	1	10/13/10	ND	
Method Blank	K1010899-MB	0.050	0.020	1	10/13/10	ND	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010795-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Ammonia as Nitrogen, Dissolved	350.1	0.050	ND	ND	ND	-	



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010795-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Ammonia as Nitrogen, Dissolved	350.1	0.050	2.00	ND	2.04	102	90-110	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010795-001MS K1010795-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Ammonia as Nitrogen, Dissolved	NONE	350.1	0.050	2.00	2.00	ND	2.04	2.04	102	102	90-110	<1	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/13/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010899-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen, Dissolved	NONE	350.1	14.3	14.6	102	90-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/13/2010	2.00	2.02	101
CCV2 Result	10/13/2010	2.00	2.02	101
CCV3 Result	10/13/2010	2.00	2.01	101
CCV4 Result	10/13/2010	2.00	2.01	101

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/13/2010	0.050	ND
CCB2 Result	10/13/2010	0.050	ND
CCB3 Result	10/13/2010	0.050	ND
CCB4 Result	10/13/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Nitrite as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
MW-3	K1010899-001	0.050	0.005	1	10/02/10 11:05	ND	
Equipment Blank	K1010899-002	0.050	0.005	1	10/02/10 11:05	ND	
Method Blank	K1010899-MB	0.050	0.005	1	10/02/10 11:05	0.010	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/1/2010  
Date Received : 10/2/2010  
Date Prepared : NA  
Date Analyzed : 10/02/10

Duplicate Summary  
Inorganic Parameters

Sample Name : MW-3  
Lab Code : K1010899-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrite as Nitrogen	353.2	0.050	ND	ND	ND	-	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** 10/1/2010  
**Date Received :** 10/2/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/02/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** MW-3  
**Lab Code :** K1010899-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	353.2	0.050	2.00	ND	1.99	99	90-110	



**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** 10/1/2010  
**Date Received :** 10/2/2010  
**Date Prepared :** NA  
**Date Analyzed :** 10/02/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** MW-3 Units : mg/L  
**Lab Code :** K1010899-001MS K1010899-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	ND	1.99	1.97	99	98	90-110	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/02/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrite as Nitrogen	NONE	353.2	4.00	4.00	100	90-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/2/2010	2.00	1.99	100
CCV2 Result	10/2/2010	2.00	2.02	101

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/2/2010	0.050	ND
CCB2 Result	10/2/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Nitrate+Nitrite as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	1.3	0.3	25	10/06/10	31.4	
Equipment Blank	K1010899-002	0.050	0.009	1	10/06/10	0.043	J
Method Blank	K1010899-MB	0.050	0.009	1	10/06/10	0.024	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010735-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrate+Nitrite as Nitrogen	353.2	0.050	0.087	0.095	0.091	9	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/06/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010735-001MS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrate+Nitrite as Nitrogen	353.2	0.050	2.00	0.087	2.01	96	86-117	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1010735-001MS K1010735-001DMS Basis : NA  
**Test Notes :**

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate+Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	0.087	2.01	2.03	96	97	86-117	1	



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/06/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010899-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrate+Nitrite as Nitrogen	NONE	353.2	14.8	14.0	95	88-110	

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	10/6/2010	2.00	1.92	96
CCV2 Result	10/6/2010	2.00	1.92	96
CCV3 Result	10/6/2010	2.00	1.92	96
CCV4 Result	10/6/2010	2.00	1.91	96
CCV5 Result	10/6/2010	2.00	1.93	97
CCV6 Result	10/6/2010	2.00	1.92	96

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA

Nitrate+Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	10/6/2010	0.050	ND
CCB2 Result	10/6/2010	0.050	ND
CCB3 Result	10/6/2010	0.050	ND
CCB4 Result	10/6/2010	0.050	ND
CCB5 Result	10/6/2010	0.050	ND
CCB6 Result	10/6/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Nitrate as Nitrogen

Analysis Method : 353.3  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	1.3	0.3	1	10/2.6/2010	31.4	
Equipment Blank	K1010899-002	0.050	0.009	1	10/2.6/2010	0.043	J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Alkalinity as CaCO<sub>3</sub>, Total

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	9.0	3.0	1	10/05/10	178	
Equipment Blank	K1010899-002	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/05/10	6.3	J

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** Batch QC  
**Lab Code :** K1010785-003DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	98.6	98.8	98.7	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/12/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Alkalinity as CaCO3, Total	NONE	SM 2320 B	97.4	96.0	99	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1010899-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Prep Method</b>	<b>Analysis Method</b>	<b>True Value</b>	<b>Result</b>	<b>Percent Recovery</b>	<b>CAS Percent Recovery Acceptance Limits</b>	<b>Result Notes</b>
Alkalinity as CaCO3, Total	NONE	SM 2320 B	97.4	101	104	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**LCS Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/12/10

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Duplicate Laboratory Control Sample  
**Lab Code :** K1010899-LCS                      K1010899-DLCS                      Basis : NA

Analyte	Units	Analysis Method	True Value		Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
			LCS	DLCS	LCS	DLCS	LCS	DLCS			
Alkalinity as CaCO3, Total	mg/L	SM 2320 B	97.4	97.4	101	94.0	104	97	94-106	7	

SM            Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Bicarbonate as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L

Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	9.0	3.0	1	10/05/10	178	
Equipment Blank	K1010899-002	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/05/10	6.3	J
Method Blank	K1010899-MB	9.0	3.0	1	10/12/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/05/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** k1010785-003DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Duplicate Sample Average	Relative Percent Difference	Result Notes
Bicarbonate as CaCO3	SM 2320 B	3.0	98.6	98.8	98.7	<1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Carbonate as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	9.0	3.0	1	10/05/10	ND	
Equipment Blank	K1010899-002	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/05/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1010899  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 10/12/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** k1010785-003DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

<b>Analyte</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample Result</b>	<b>Average</b>	<b>Relative Percent Difference</b>	<b>Result Notes</b>
Carbonate as CaCO3	SM 2320 B	9.0	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Hydroxide as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L

Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	9.0	3.0	1	10/05/10	ND	
Equipment Blank	K1010899-002	9.0	3.0	1	10/12/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/05/10	ND	
Method Blank	K1010899-MB	9.0	3.0	1	10/12/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : 10/01/10  
Date Received : 10/02/10

Solids, Total Dissolved

Analysis Method : SM 2540 C  
Test Notes :

Units : mg/L  
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-3	K1010899-001	20	20	1	10/05/10	1980	
Equipment Blank	K1010899-002	20	20	1	10/05/10	32	
Method Blank	K1010899-MB	5.0	5.0	1	10/05/10	ND	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/05/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1010850-003DUP  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved	SM 2540 C	14	883	873	878	1	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1010899  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 10/05/10

Laboratory Control Sample Summary  
Inorganic Parameters

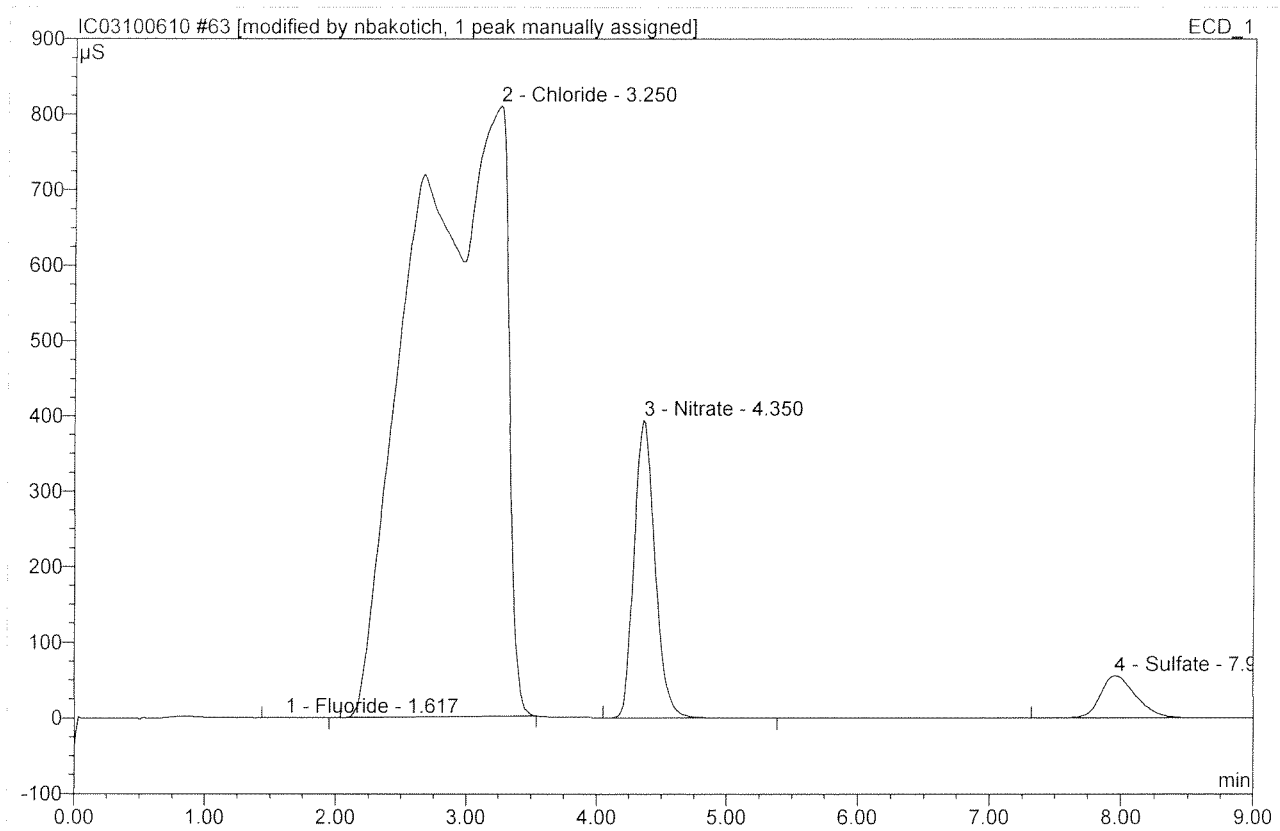
Sample Name : Lab Control Sample  
Lab Code : K1010899-LCS  
Test Notes :

Units : mg/L  
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Solids, Total Dissolved	NONE	SM 2540 C	1090	1100	101	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

<b>63 K1010899-001</b>			
Sample Name:	<b>K1010899-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>62</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 1:16</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.62	Fluoride	0.380	0.122	0.02	0.131	BMB*
2	3.25	Chloride	808.283	661.289	87.88	852.018	BMB*^
3	4.35	Nitrate	394.223	73.580	9.78	39.422	BMB
4	7.95	Sulfate	56.325	17.533	2.33	35.265	BMB
<b>Total:</b>			1259.211	752.523	100.00	926.835	

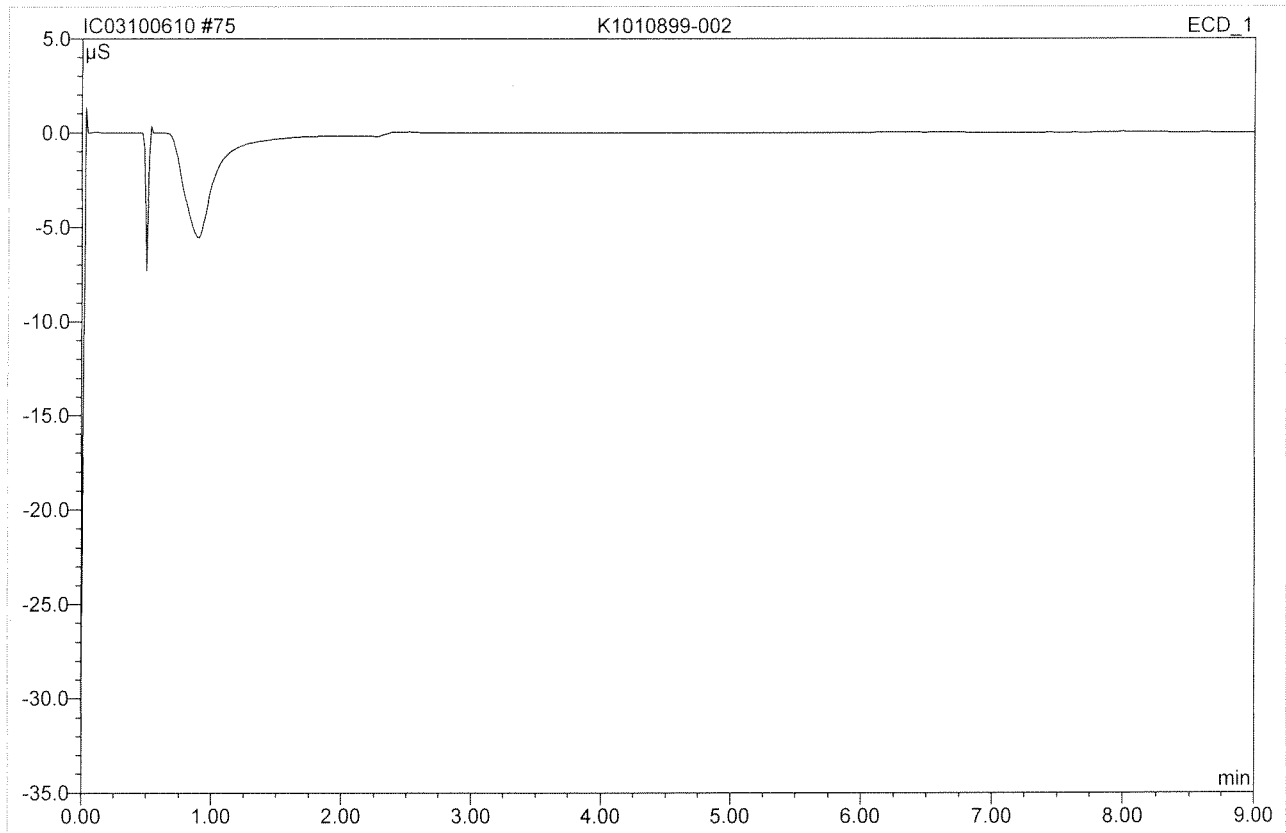
Before *nb 10.7* After Initials *nb*

OCT 07 2010 OCT 07 2010 *Kep/10*

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>75 K1010899-002</b>			
Sample Name:	<b>K1010899-002</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>74</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 3:33</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

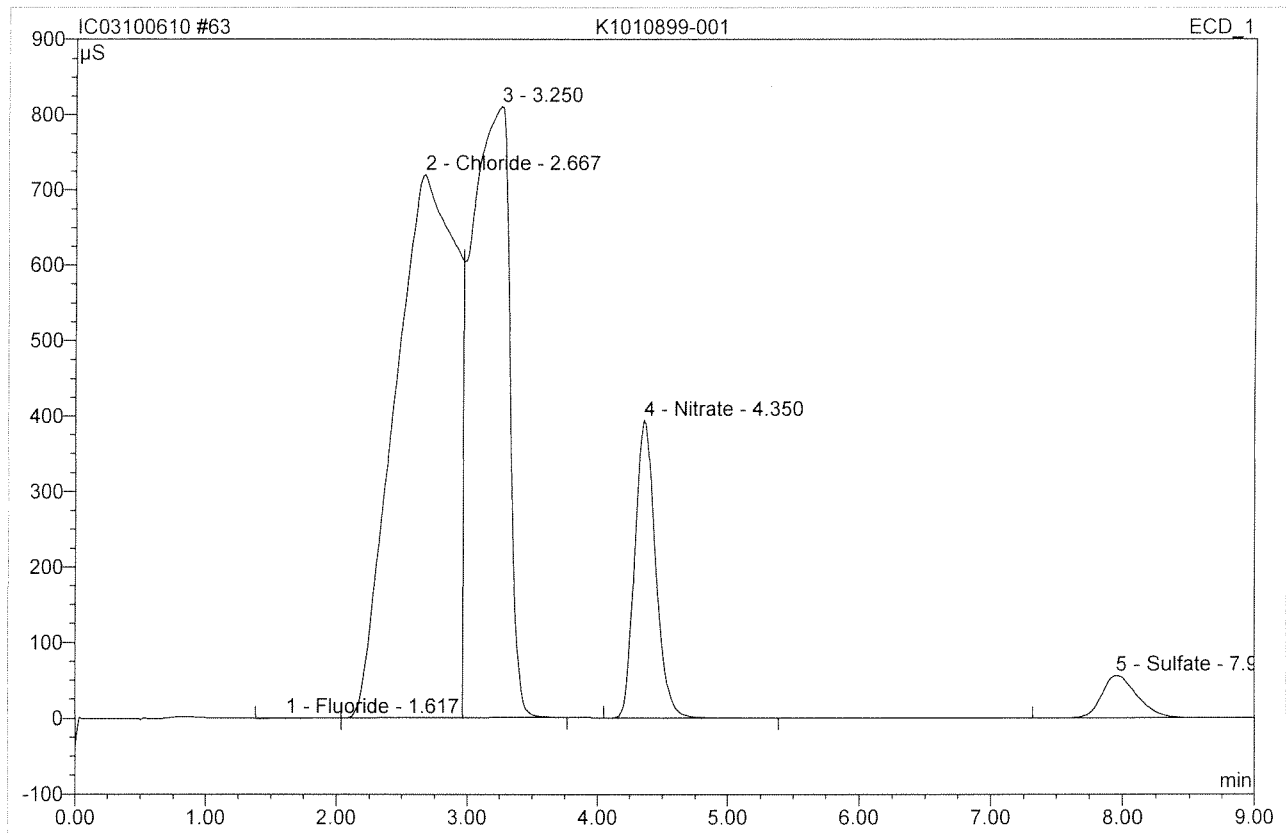


No.	Ret.Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S}^*\text{min}$	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

R < 0.20  
C1  
50% ↓

H  
10/10/10

<b>63 K1010899-001</b>			
Sample Name:	<b>K1010899-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>62</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/7/2010 1:16</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



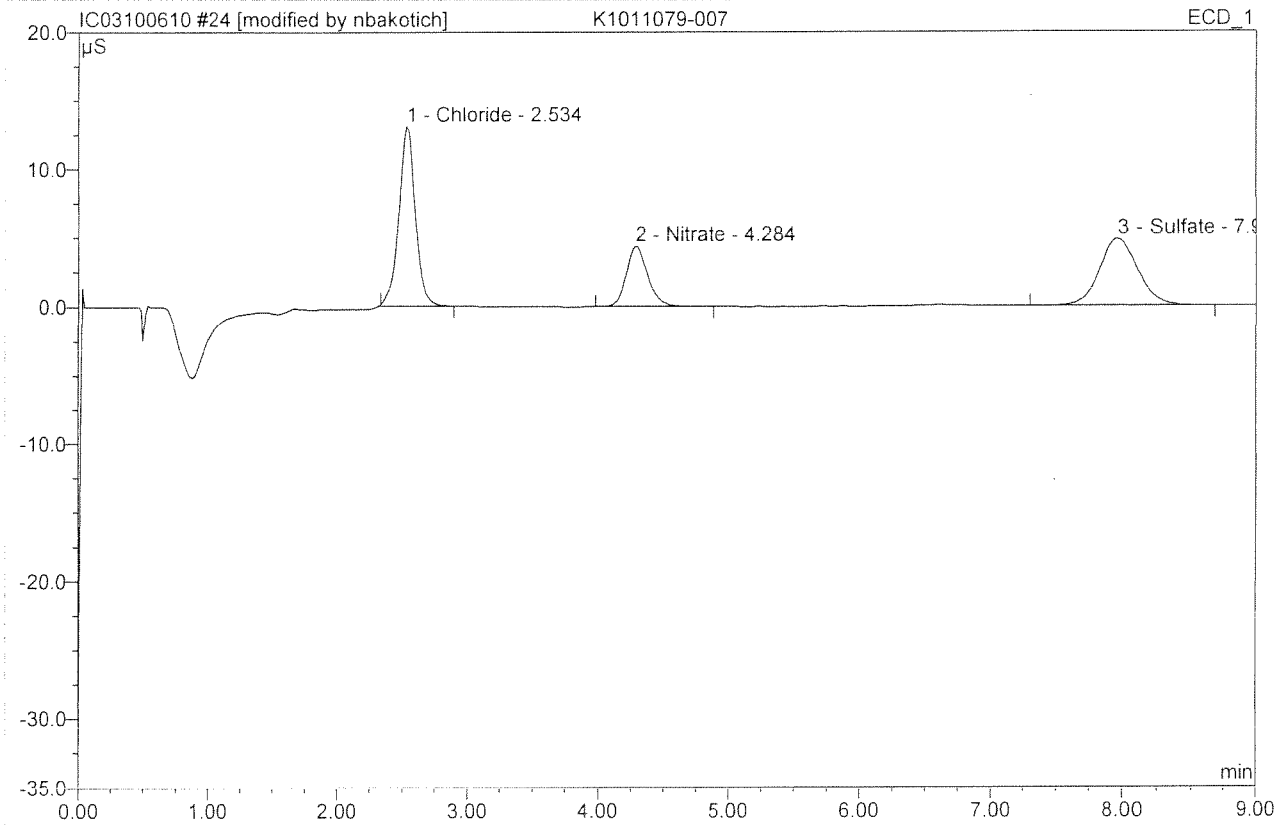
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	0.457	0.167	0.02	0.179	BMb
2	2.67	Chloride	720.357	389.889	51.67	502.341	bM
3	3.25	n.a.	810.327	273.465	36.24	n.a.	MB
4	4.35	Nitrate	394.223	73.580	9.75	39.422	BMB
5	7.95	Sulfate	56.325	17.533	2.32	35.265	BMB
<b>Total:</b>			1981.688	754.633	100.00	577.206	

Before

OCT 07 2010

**24 K1011079-007**

Sample Name:	<b>K1011079-007</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>23</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/6/2010 17:49</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride <i>2.534 RPD=2</i>	13.066	1.910	44.06	2.461	MB*
2	4.28	Nitrate <i>4.28 RPD&lt;1</i>	4.376	0.841	19.41	0.451	BMB
3	7.97	Sulfate <i>7.97 RPD&lt;1</i>	4.875	1.583	36.53	3.185	BMB
<b>Total:</b>			22.317	4.335	100.00	6.097	

*NO<sub>2</sub> <0.10 x <0.10 RPD*

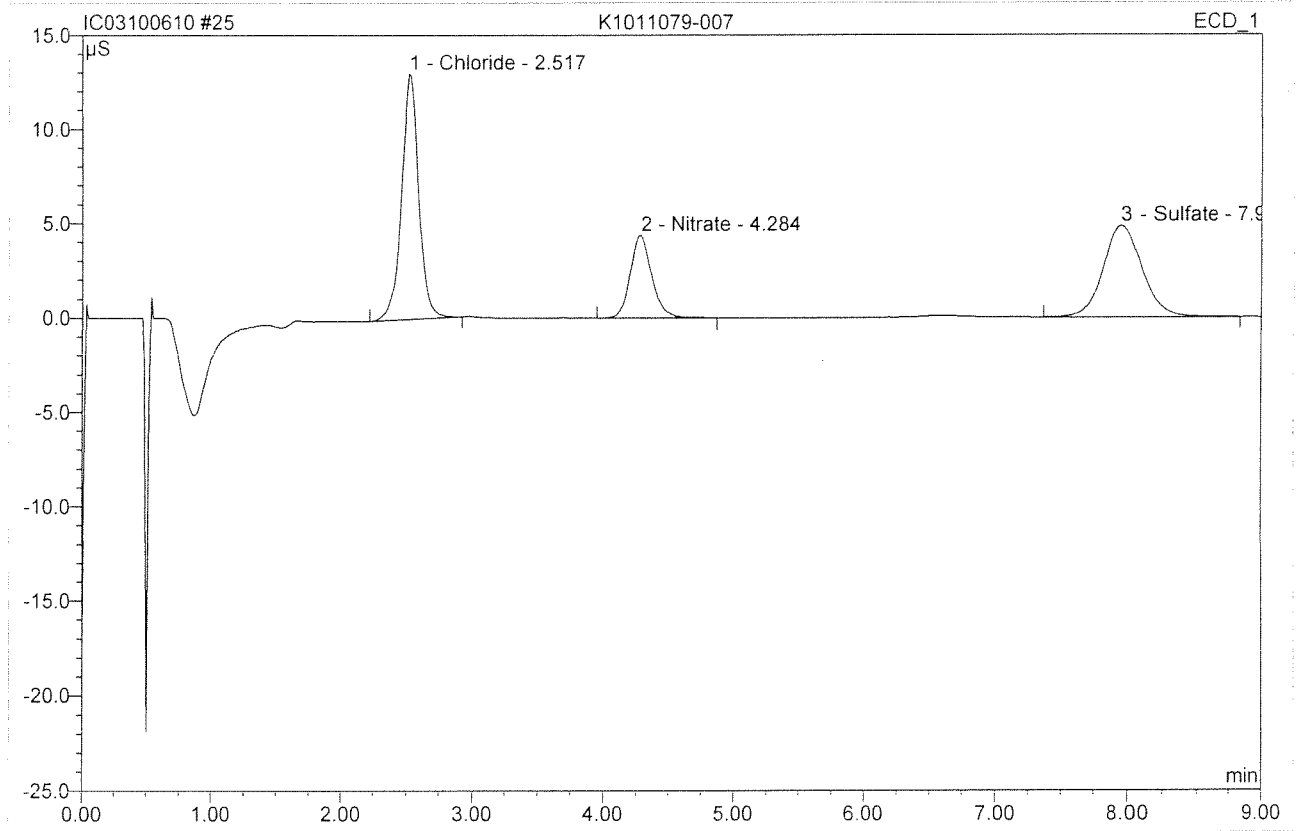
After Initials *nb*

OCT 06 2010

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*nbakotich*

<b>25 K1011079-007</b>			
<b>D</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

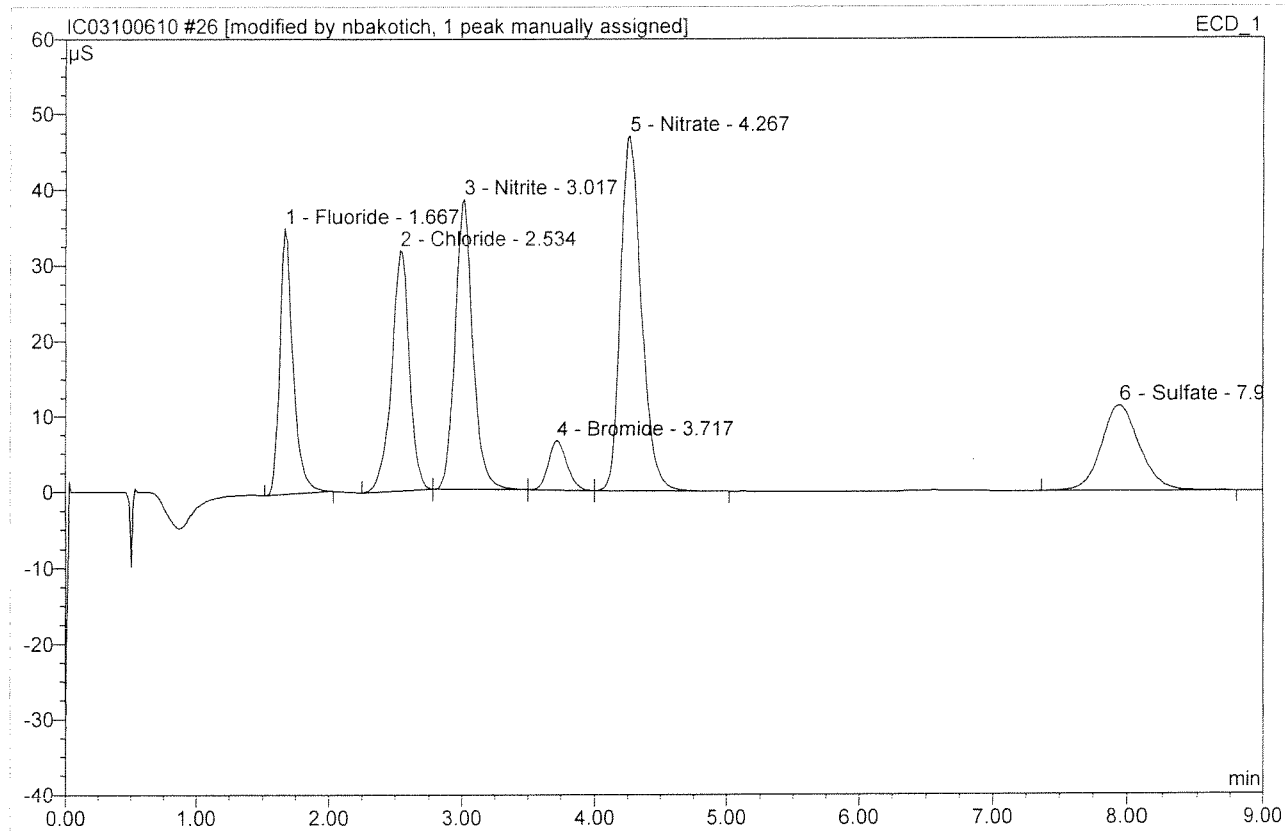


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	12.993	1.954	44.79	2.517	BMB
2	4.28	Nitrate	4.330	0.835	19.13	0.447	BMB
3	7.95	Sulfate	4.819	1.574	36.08	3.166	BMB
<b>Total:</b>			22.143	4.362	100.00	6.130	

*NO<sub>2</sub> < 0.10*

*K. Bakotich*

<b>26 K1011079-007</b>			
<b>MS</b>			
Sample Name:	K1011079-007	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 18:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride <i>REC=111</i>	35.284	4.145	14.59	4.439	BMB <sup>^A</sup>
2	2.53	Chloride <i>REC=97</i>	31.892	4.924	17.33	6.345	BMb*
3	3.02	Nitrite <i>REC=95</i>	38.427	6.010	21.15	3.775	bMb
4	3.72	Bromide <i>REC=100</i>	6.584	1.063	3.74	4.014	bMb
5	4.27	Nitrate <i>REC=105</i>	46.937	8.661	30.48	4.640	bMB
6	7.95	Sulfate <i>REC=102</i>	11.346	3.615	12.72	7.272	BMB
<b>Total:</b>			170.469	28.418	100.00	30.483	

*spt 1 v1 / 4*

After Initials *AB*

*K 10/6/10*

OCT 05 2010

default/Integration

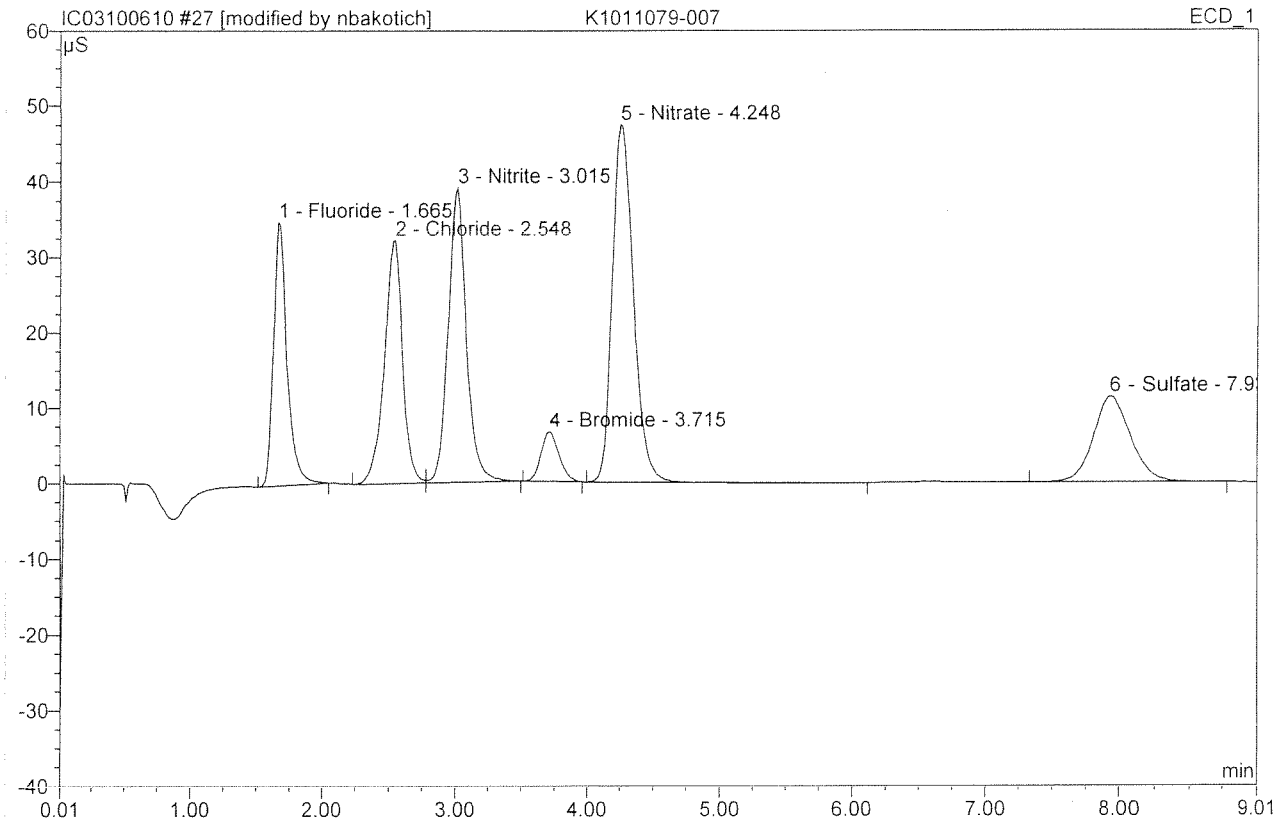
Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

**27 K1011079-007**

**MSD**

Sample Name:	<b>K1011079-007</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>26</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>2.0000</b>
Recording Time:	<b>10/6/2010 18:23</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.66	Fluoride <i>RCC=112</i>	34.980	4.160	14.43	4.455	BMB*
2	2.55	Chloride <i>RCC=102</i>	32.331	5.062	17.56	6.521	BM*
3	3.01	Nitrite <i>RCC=98</i>	39.090	6.202	21.51	3.896	MB*
4	3.71	Bromide <i>RCC=100</i>	6.639	1.058	3.67	3.995	BMB*
5	4.25	Nitrate <i>RCC=106</i>	47.340	8.712	30.22	4.668	BMB*
6	7.93	Sulfate <i>RCC=103</i>	11.415	3.636	12.61	7.314	BMB
<b>Total:</b>			171.794	28.831	100.00	30.849	

After Initials nb

OCT 06 2010

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

81

*50k/vi  
4*

*H  
10/6/10*



Sequence # 1003100610

Ion Chromatography Data Quality Report  
Inorganics

Run # 219688

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS	True Value =	CAS ID # =	Expires:
Fluoride	11.0 ppm	AN1-33-CC	<u>3.3.11</u>
Chloride	5.0 ppm	ERA#0524-10-04	<u>12.10</u>
Nitrite	100 ppm		<u>10.6.10</u>
Bromide	4.0 ppm	AN1-33-Z	<u>2.3.11</u>
Nitrate	21.0 ppm	AN1-33-V	<u>1.22.11</u>
Sulfate	5.0 ppm	ERA#0524-10-04	<u>12.10</u>

CCV	True Value =	CAS ID # =	Expires
Fluoride	5.0 ppm	10K CAS ID # = AN1-33-M	<u>10.28.10</u>
Chloride	5.0 ppm	10K CAS ID # = AN1-33-AA	<u>2.5.11</u>
Nitrite	2.0 ppm	10K CAS ID # = AN1-33-N	<u>10.28.10</u>
Bromide	2.0 ppm	10K CAS ID # = AN1-33-U	<u>12.22.10</u>
Nitrate	2.0 ppm	10K CAS ID # = AN1-33-W	<u>1.30.11</u>
Sulfate	5.0 ppm	10K CAS ID # = AN1-33-BB	<u>2.5.11</u>

Spike	2.0ppm X dilution factor	CAS ID # =	Expires
Fluoride	10K CAS ID # = AN1-33-M		<u>10.6.10</u>
Chloride	10K CAS ID # = AN1-33-F		<u>10.6.10</u>
Nitrite	10K CAS ID # = AN1-33-N		<u>10.6.10</u>
Bromide	10K CAS ID # = AN1-33-U		<u>10.6.10</u>
Nitrate	10K CAS ID # = AN1-33-I		<u>10.6.10</u>
Sulfate	10K CAS ID # = AN1-33-G		<u>10.6.10</u>

Analyst: AB Date: 10.6.10  
 First Review: [Signature] Date: 10.6/7.10  
 Final Review: [Signature] Date: 10/10/10

t:\wetlic\cdqs.xls

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
1021-1	11				F			
					Cl			
					<del>NO2</del>	2/3/5		✓
					Br			
					<del>NO3</del>			✓
1025-1	11				SO4			
					F			
					Cl			
					<del>NO2</del>			✓
					Br			
11032-1	11				<del>NO3</del>			✓
					SO4			
					F			
					Cl			
					<del>NO2</del>			✓
1059-1	1				Br			
					<del>NO3</del>			✓
					SO4			
					NO2			
					Cl			
11061-1	1				F			
					Cl			
					NO2			
					Br			
					<del>NO3</del>			✓
11062-1	1				SO4			
					F			
					Cl			
					NO2			
					Br			
1069-2	1				<del>NO3</del>			✓
					SO4			
					F			
					Cl			
					NO2			
1071-2	1				Br			
					<del>NO3</del>			
					SO4			✓
					NO2			
					Cl			
11079-3	V				F		115	✓
					Cl			✓
					<del>NO2</del>			✓
					Br			✓
					<del>NO3</del>			✓
-3					SO4			✓
					F			✓
					Cl			✓
					NO2			✓
					Br			✓

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
1079-41					F			
					Cl	2.5/3		✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-5					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-6					F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4			✓
-7		2			F			
					Cl			✓
					NO2			✓
					Br			
					NO3			✓
					SO4	✓		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

Sequence: IC03100610  
Operator: nbakotich

Page 1 of 6  
Printed: 10/7/2010 10:13:45 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lvl2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/lvl3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/lvl4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/lvl5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/lvl6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/lvl7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/lvl1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-Z	Unknown	8	200.0	epa300	epa300	Finished	10/6/2010 2:45:35 PM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/6/2010 2:57:03 PM
10	NO2 AN11-31-G	Unknown	10	200.0	epa300	epa300	Finished	10/6/2010 3:08:30 PM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:19:58 PM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/6/2010 3:31:26 PM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/6/2010 3:42:54 PM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/6/2010 3:54:22 PM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/6/2010 4:05:50 PM
16	SPKCHK AN11-72-DD	Unknown	15	200.0	epa300	epa300	Finished	10/6/2010 4:17:19 PM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/6/2010 4:28:46 PM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/6/2010 4:40:15 PM
19	K1011079-002	Unknown	18	200.0	epa300	epa300	Finished	10/6/2010 4:51:43 PM
20	K1011079-003	Unknown	19	200.0	epa300	epa300	Finished	10/6/2010 5:03:10 PM
21	K1011079-004	Unknown	20	200.0	epa300	epa300	Finished	10/6/2010 5:14:38 PM
22	K1011079-005	Unknown	21	200.0	epa300	epa300	Finished	10/6/2010 5:26:06 PM
23	K1011079-006	Unknown	22	200.0	epa300	epa300	Finished	10/6/2010 5:37:34 PM
24	K1011079-007	Unknown	23	200.0	epa300	epa300	Finished	10/6/2010 5:49:02 PM
25	K1011079-007	Unknown	24	200.0	epa300	epa300	Finished	10/6/2010 6:00:30 PM
26	K1011079-007	Unknown	25	200.0	epa300	epa300	Finished	10/6/2010 6:11:57 PM
27	K1011079-007	Unknown	26	200.0	epa300	epa300	Finished	10/6/2010 6:23:25 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/6/2010 6:34:53 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/6/2010 6:46:20 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/6/2010 6:57:48 PM
31	K1011021-001	Unknown	30	200.0	epa300	epa300	Finished	10/6/2010 7:09:16 PM
32	K1011025-001	Unknown	31	200.0	epa300	epa300	Finished	10/6/2010 7:20:43 PM
33	K1011032-001	Unknown	32	200.0	epa300	epa300	Finished	10/6/2010 7:32:11 PM
34	K1010966-002	Unknown	33	200.0	epa300	epa300	Finished	10/6/2010 7:43:39 PM
35	K1010996-002	Unknown	34	200.0	epa300	epa300	Finished	10/6/2010 7:55:06 PM
36	K1010996-002	Unknown	35	200.0	epa300	epa300	Finished	10/6/2010 8:06:35 PM
37	K1010996-002	Unknown	36	200.0	epa300	epa300	Finished	10/6/2010 8:18:03 PM
38	K1010851-001	Unknown	37	200.0	epa300	epa300	Finished	10/6/2010 8:29:30 PM
39	K1010851-003	Unknown	38	200.0	epa300	epa300	Finished	10/6/2010 8:40:58 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/6/2010 8:52:26 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/6/2010 9:03:53 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/6/2010 9:15:21 PM

Sequence: IC03100610  
Operator: nbakotich

Page 2 of 6  
Printed: 10/7/2010 10:13:45 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std1/lvl1	1.0000	
8	 CCV AN11-82-Z	1.0000	
9	 CCB1	1.0000	
10	 NO2 AN11-31-G	25.0000	NO2
11	 MB	1.0000	MB
12	 NO3 AN1-33-V	20.0000	NO3
13	 CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	 F AN 1-33-Y	2.0000	F
15	 Br AN1-33-L	1.0000	Br
16	 SPKCHK AN11-72-DD	1.0000	
17	 CCV2	1.0000	CCV2
18	 CCB2	1.0000	CCB2
19	 K1011079-002	2.0000	
20	 K1011079-003	2.0000	
21	 K1011079-004	2.0000	
22	 K1011079-005	2.0000	
23	 K1011079-006	2.0000	
24	 K1011079-007	2.0000	
25	 K1011079-007	2.0000	D
26	 K1011079-007	2.0000	MS
27	 K1011079-007	2.0000	MSD
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1011021-001	2.0000	
32	 K1011025-001	2.0000	
33	 K1011032-001	2.0000	
34	 K1010966-002	2.0000	
35	 K1010996-002	2.0000	D
36	 K1010996-002	2.0000	MS
37	 K1010996-002	2.0000	MSD
38	 K1010851-001	100.0000	
39	 K1010851-003	100.0000	
40	 RB	1.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Title:

Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
 Last Update: 10/7/2010 10:04:02 AM by nbakotich











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1010851-004	Unknown	42	200.0	epa300	epa300	Finished	10/6/2010 9:26:49 PM
44	K1010851-005	Unknown	43	200.0	epa300	epa300	Finished	10/6/2010 9:38:17 PM
45	K1010851-006	Unknown	44	200.0	epa300	epa300	Finished	10/6/2010 9:49:45 PM
46	K1010854-001	Unknown	45	200.0	epa300	epa300	Finished	10/6/2010 10:01:13 PM
47	K1010854-002	Unknown	46	200.0	epa300	epa300	Finished	10/6/2010 10:12:40 PM
48	K1010923-004	Unknown	47	200.0	epa300	epa300	Finished	10/6/2010 10:24:09 PM
49	K1011008-001	Unknown	48	200.0	epa300	epa300	Finished	10/6/2010 10:35:36 PM
50	K1010795-001	Unknown	49	200.0	epa300	epa300	Finished	10/6/2010 10:47:03 PM
51	K1010795-002	Unknown	50	200.0	epa300	epa300	Finished	10/6/2010 10:58:31 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/6/2010 11:09:58 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/6/2010 11:21:26 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/6/2010 11:32:54 PM
55	K1011008-001	Unknown	54	200.0	epa300	epa300	Finished	10/6/2010 11:44:21 PM
56	K1011008-001	Unknown	55	200.0	epa300	epa300	Finished	10/6/2010 11:55:49 PM
57	K1011008-001	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 12:07:17 AM
58	K1010795-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 12:18:47 AM
59	K1010850-001	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 12:30:15 AM
60	K1010850-002	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 12:41:43 AM
61	K1010850-003	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 12:53:12 AM
62	K1010850-004	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 1:04:39 AM
63	K1010899-001	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 1:16:07 AM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 1:27:34 AM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 1:39:02 AM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 1:50:29 AM
67	K1011059-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 2:01:57 AM
68	K1011061-001	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 2:13:25 AM
69	K1011062-001	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 2:24:53 AM
70	K1010960-005	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 2:36:21 AM
71	K1011069-002	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 2:47:51 AM
72	K1011071-002	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 2:59:19 AM
73	NO2 LOQ	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 3:10:46 AM
74	NO2 LOD	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 3:22:15 AM
75	K1010899-002	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 3:33:43 AM
76	RB	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 3:45:10 AM
77	CCV7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 3:56:38 AM
78	CCB7	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 4:08:05 AM
79	MB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 4:19:33 AM
80	CLSO4	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 4:31:00 AM
81	K1011079-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:42:28 AM
82	K1010851-001	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 4:53:56 AM
83	K1010851-003	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:05:24 AM
84	K1010851-004	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:16:51 AM

Sequence: IC03100610  
Operator: nbakotich

Page 4 of 6  
Printed: 10/7/2010 10:13:45 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

No.	Name	Dil. Factor	Comment
43	 K1010851-004	100.0000	
44	 K1010851-005	100.0000	
45	 K1010851-006	100.0000	
46	 K1010854-001	2.0000	
47	 K1010854-002	2.0000	
48	 K1010923-004	2.0000	
49	 K1011008-001	2.0000	
50	 K1010795-001	2.0000	
51	 K1010795-002	2.0000	
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1011008-001	2.0000	D
56	 K1011008-001	2.0000	MS
57	 K1011008-001	2.0000	MSD
58	 K1010795-003	2.0000	
59	 K1010850-001	2.0000	
60	 K1010850-002	2.0000	
61	 K1010850-003	2.0000	
62	 K1010850-004	1.0000	
63	 K1010899-001	2.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1011059-001	2.0000	
68	 K1011061-001	2.0000	
69	 K1011062-001	2.0000	
70	 K1010960-005	10.0000	
71	 K1011069-002	2.0000	
72	 K1011071-002	2.0000	
73	 NO2 LOQ	1.0000	LOQ
74	 NO2 LOD	1.0000	LOD
75	 K1010899-002	1.0000	
76	 RB	1.0000	
77	 CCV7	1.0000	CCV7
78	 CCB7	1.0000	CCB7
79	 MB	1.0000	MB2
80	 CLSO4	1.0000	CLSO4 2
81	 K1011079-002	5.0000	
82	 K1010851-001	5.0000	
83	 K1010851-003	5.0000	
84	 K1010851-004	10.0000	




Sequence: IC03100610  
Operator: nbakotich

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Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

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No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 RB	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 5:28:19 AM
86	 CCV8	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 5:39:46 AM
87	 CCB8	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 5:51:13 AM



Sequence: IC03100610  
Operator: nbakotich

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Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 87

Created: 10/6/2010 2:43:41 PM by ACQWET10  
Last Update: 10/7/2010 10:04:02 AM by nbakotich

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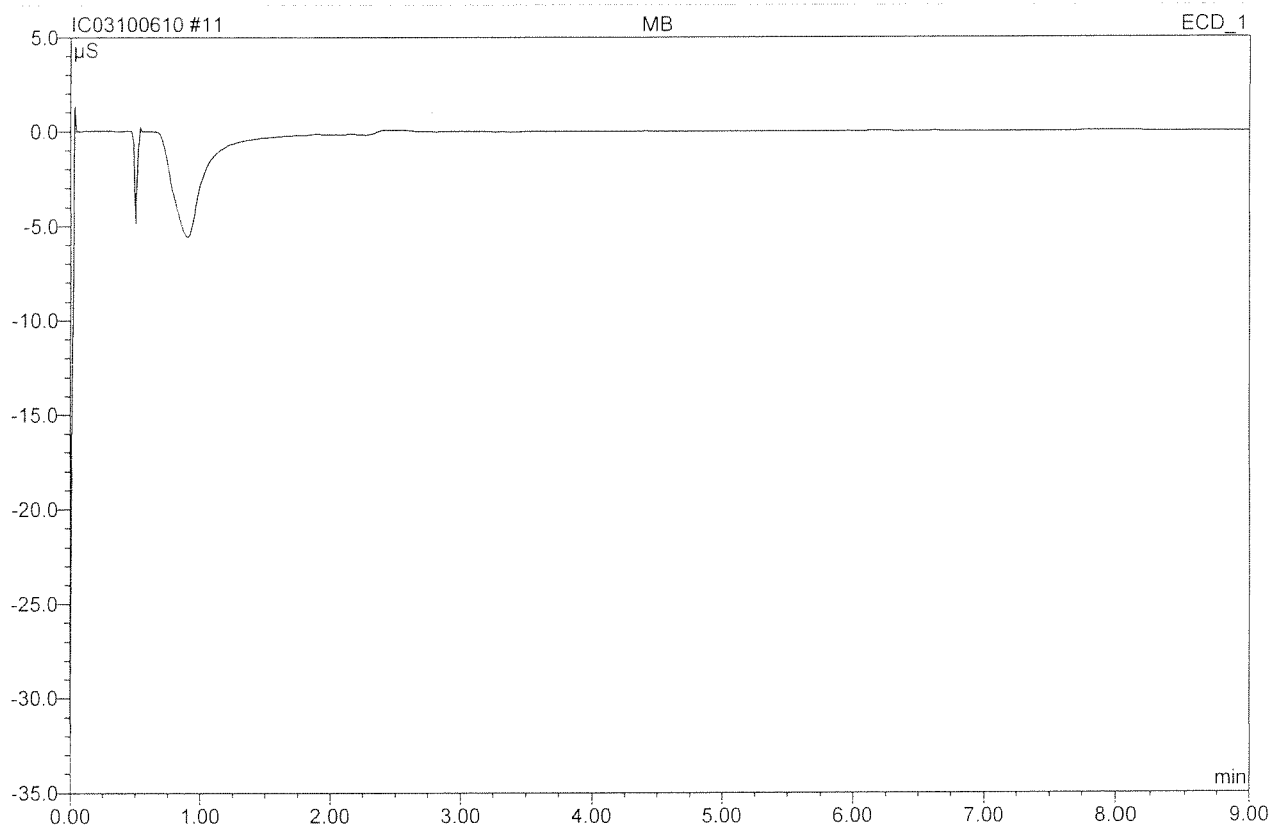
No.	Name	Dil. Factor	Comment
85	 RB	1.0000	
86	 CCV8	1.0000	CCV8
87	 CCB8	1.0000	CCB8

Service Request	Tier	QC	Hold Time	Due Date	Analysis	Initial	Final	Done?
0766-2	1	X			F (F)	2.5/5		✓
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
0851-1	11				F (Cl)	1/15/0	1/5	✓
					NO2		↓	
					Br			
					NO3			
					(SO4)		↓	✓
-3					F (Cl)		1/5	✓
					NO2			
					Br			
					NO3			
					(SO4)			✓
-4					F (Cl)		0.5/5	
					NO2			
					Br			
					NO3			
					(SO4)			✓
-5					F (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-6					F (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
0854-1	11				F (Cl)	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			
-2					F (Cl)			✓
					NO2			
					Br			
					NO3			
					SO4			
0923-4/	11				(F)	✓		✓
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
1008-1	11	X			F (Cl)	2.5/5		✓
					NO2			
					Br			
					NO3			
					SO4			

Service Request	Tier	OC	Hold Time	Due Date	Anions	Initial	Final	Done?
10795-1	111				(F)	2.5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
-2					(SO4)			
					(F)			✓
					(Cl)			✓
					NO2			
					Br			
-3					NO3			
					(SO4)	✓		
					(F)	5/5		✓
					(Cl)			✓
					NO2			
10850-1	111				Br			
					NO3			
					(SO4)	✓		✓
					(F)	2.5/5		✓
					(Cl)			
-2					NO2			
					Br			
					NO3			
					(SO4)			
					(F)			✓
-3					(Cl)			
					NO2			
					Br			
					NO3			
					(SO4)	✓		
-4					(F)	5/5		✓
					(Cl)			✓
					NO2			
					Br			
					NO3			
10899-1	111				(SO4)	✓		✓
					(F)	2.5/5		✓
					(Cl)			
					NO2			
					Br			
-2					NO3			
					(SO4)	✓		✓
					(F)	5/5		✓
					(Cl)			✓
					NO2			
T949-1	1				Br			
					NO3			
					(SO4)	✓		✓
					(F)			
					(Cl)			
					(SO4)	0.25/5		

Service Request	Tier	OC	Hold Time	Due Date	Anions	Initial	Final	Done?
19419-2					F			
					Cl			
					NO2			
					Br			
					NO3			
10960-5					SO4	0.5/5		
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

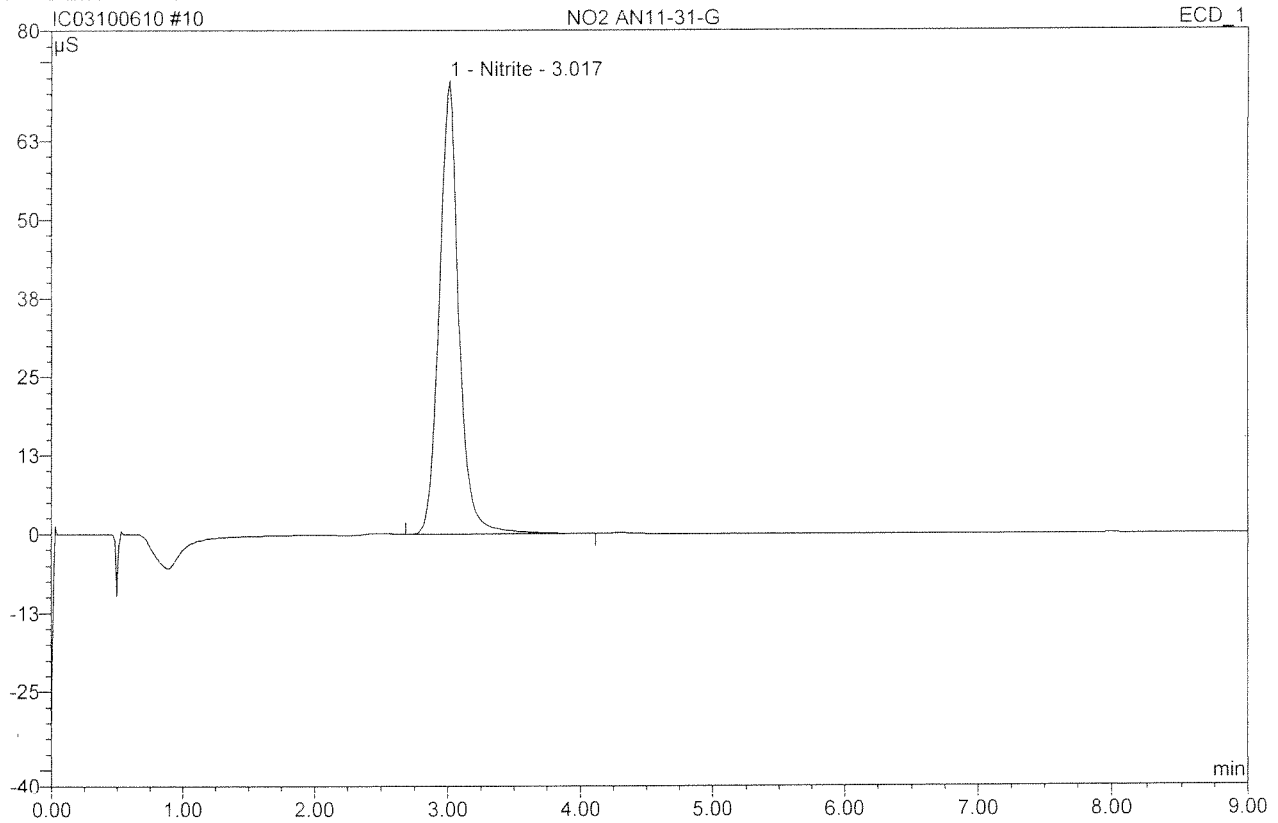
<b>11 MB</b>			
<b>MB</b>			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 15:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

10 NO2 AN11-31-G			
NO2			
Sample Name:	NO2 AN11-31-G	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/6/2010 15:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



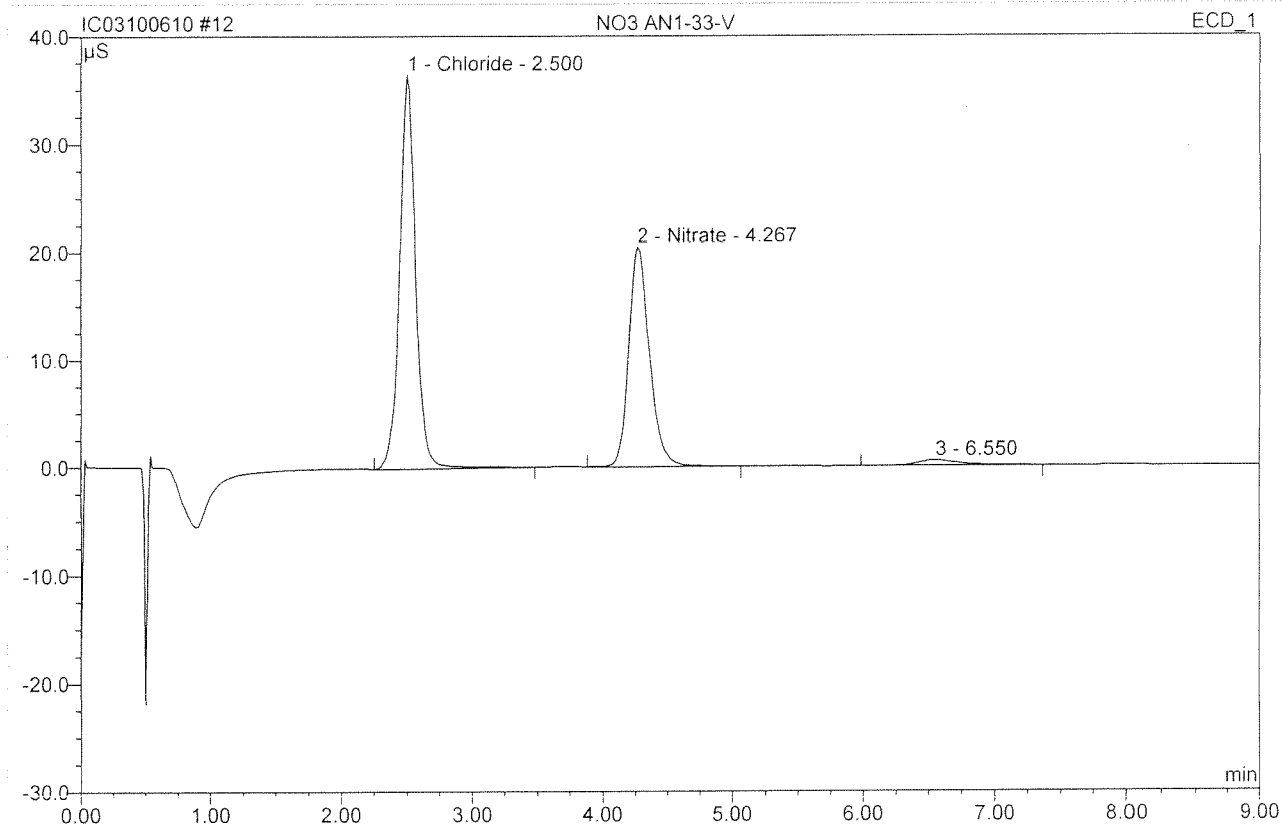
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.02	Nitrite	72.057	12.340	100.00	97 96.881	BMB
<b>Total:</b>			72.057	12.340	100.00	96.881	

*Handwritten signature/initials*

## 12 NO3 AN1-33-V

### NO3

Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/6/2010 15:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



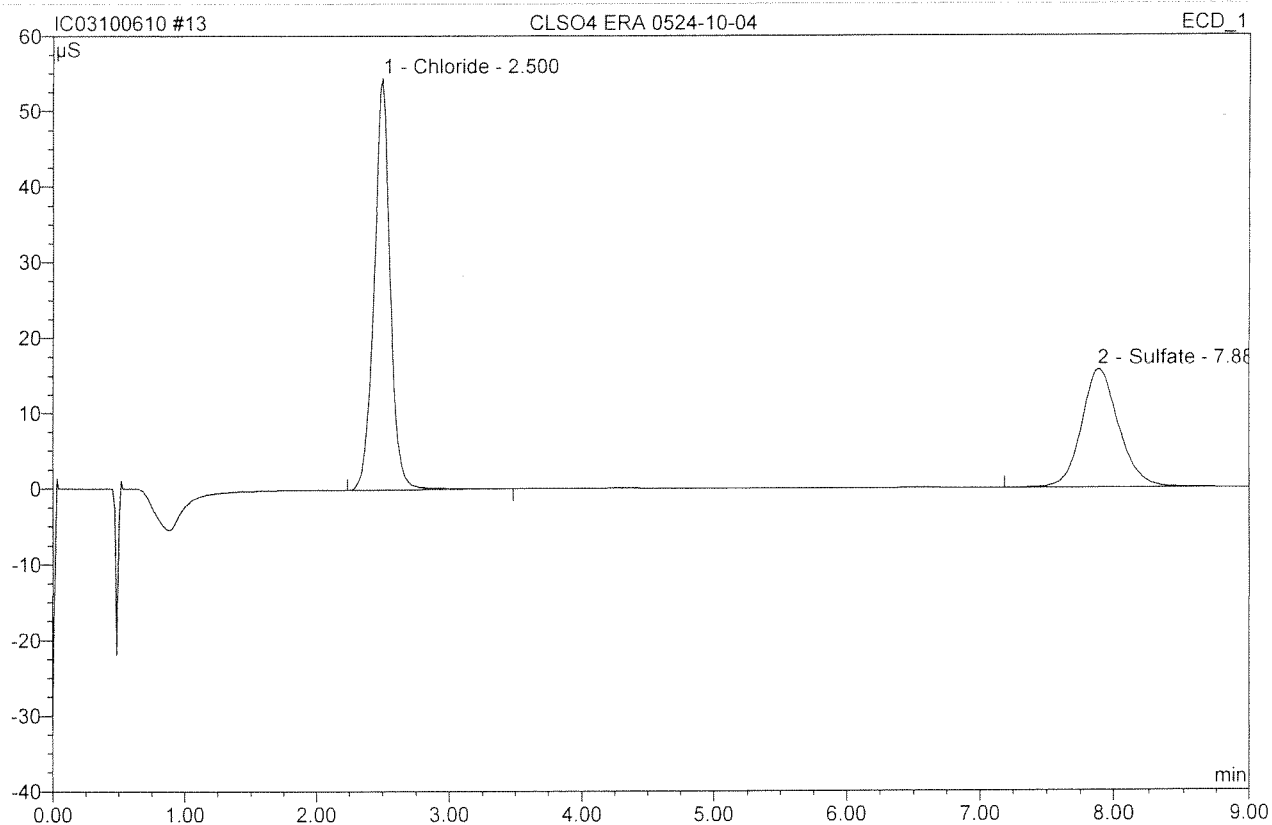
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	36.517	5.185	56.31	66.805	BMB
2	4.27	Nitrate	20.440	3.827	41.56	20.505	BMB
3	6.55	n.a.	0.499	0.196	2.13	n.a.	BMB
<b>Total:</b>			57.455	9.209	100.00	87.311	

*Handwritten signature/initials*

### 13 CLSO4 ERA 0524-10-04

#### CLSO4

Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 15:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

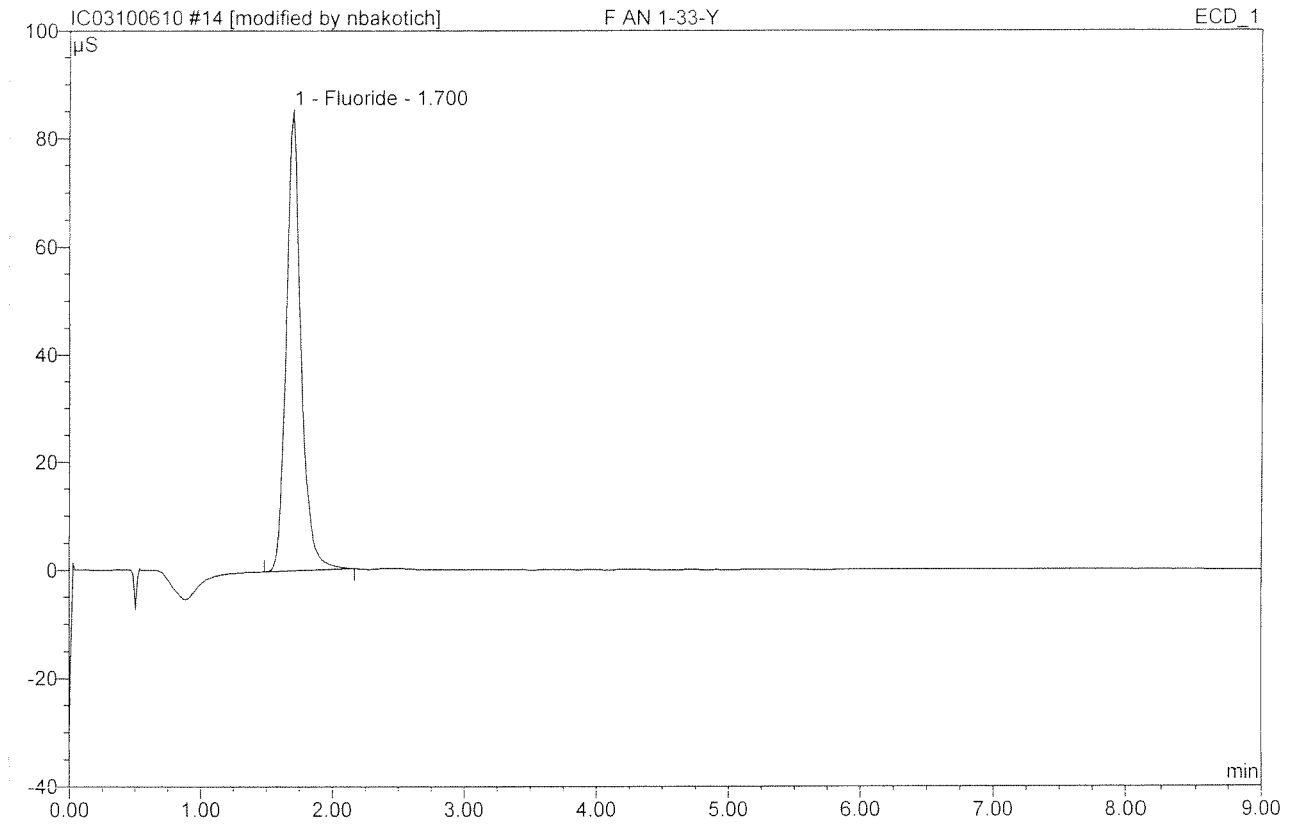


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.529	7.660	60.30	97 4.935	BMB
2	7.88	Sulfate	15.690	5.044	39.70	107 5.073	BMB
<b>Total:</b>			70.219	12.704	100.00	10.007	

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10/6/10



<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	85.447	11.150	100.00	108 11.939	BMB*
<b>Total:</b>			85.447	11.150	100.00	11.939	

After Initials nd

OCT 06 2010

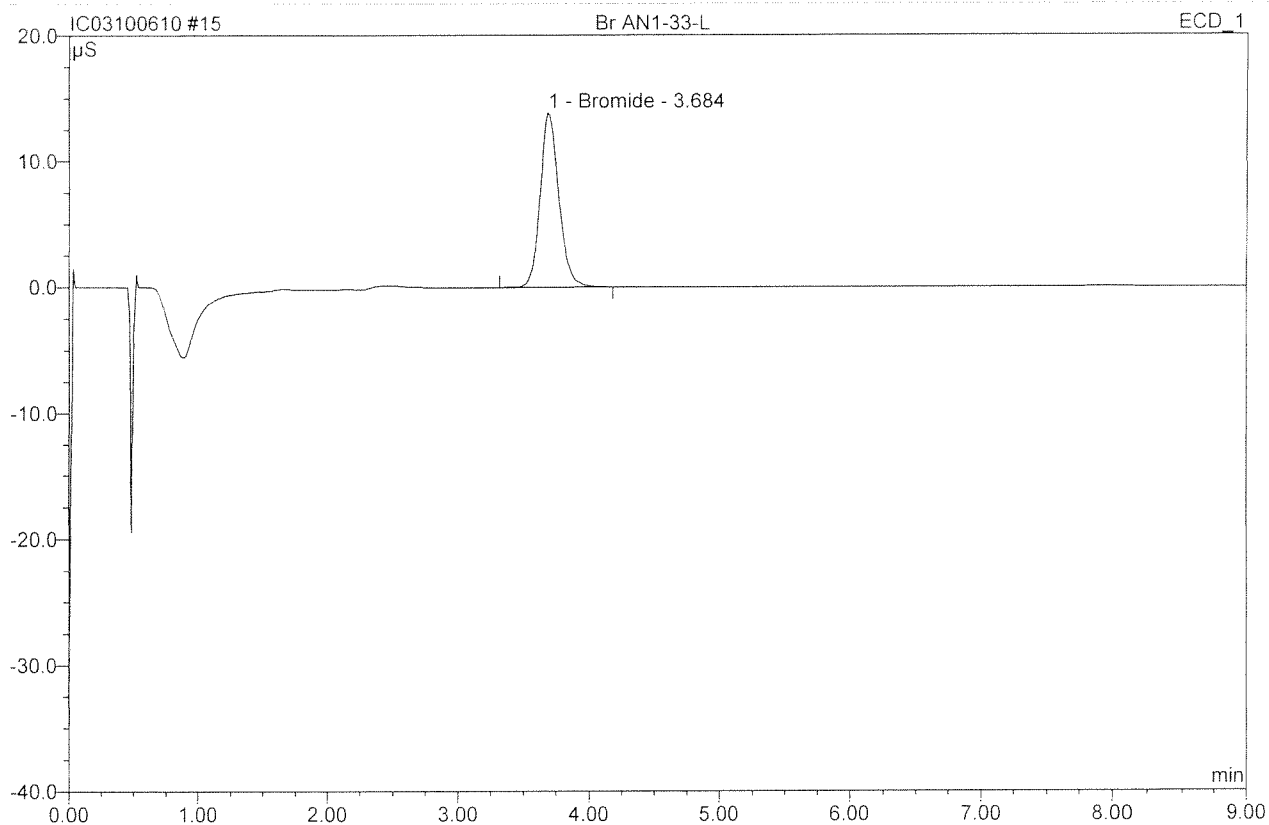
*Handwritten signature*  
10/6/10

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

### 15 Br AN1-33-L

Br

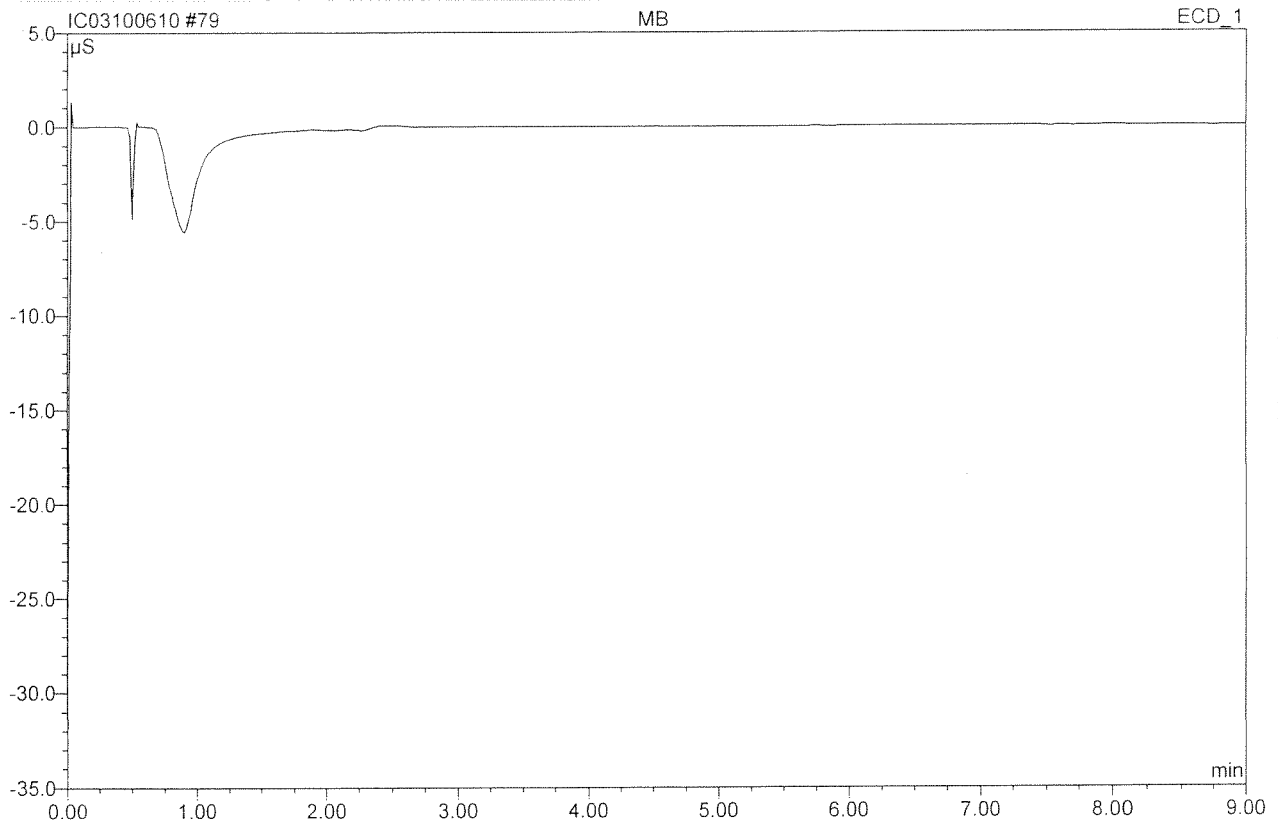
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.68	Bromide	13.895	2.280	100.00	100 4.303	BMB
<b>Total:</b>			13.895	2.280	100.00	4.303	

*Handwritten signature/initials*

<b>79 MB</b>			
<b>MB2</b>			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	78	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



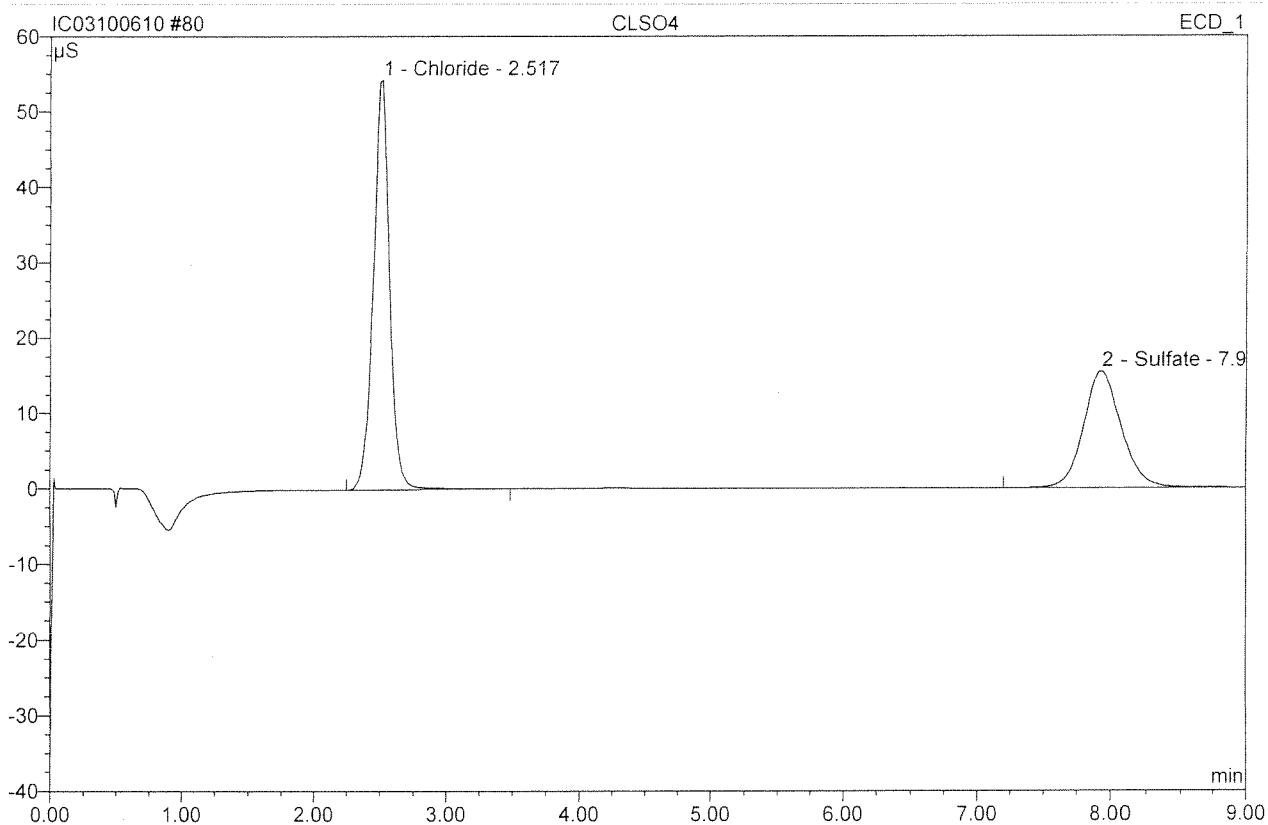
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

HT  
10/16/10

**80 CLSO4**

**CLSO4 2**

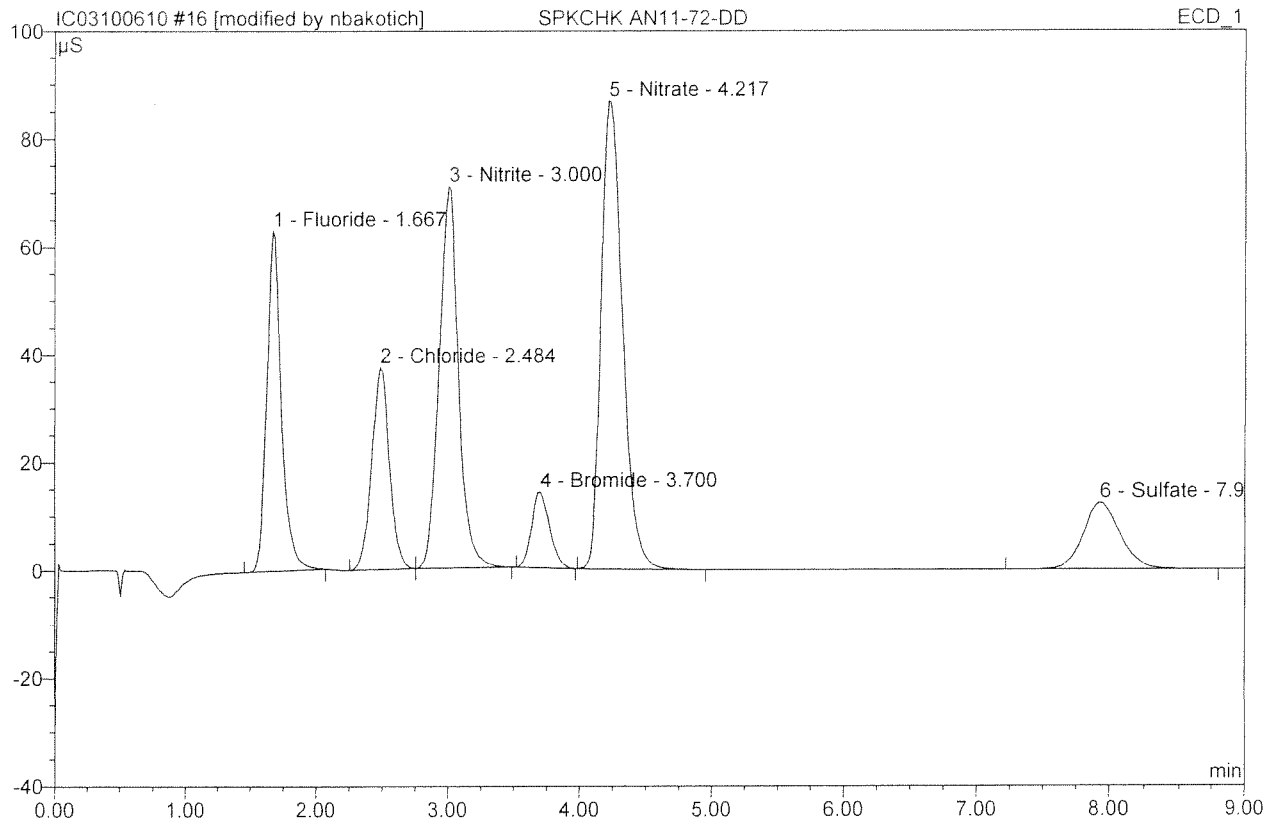
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	79	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	54.398	7.701	60.81	99 4.961	BMB
2	7.93	Sulfate	15.488	4.964	39.19	100 4.992	BMB
<b>Total:</b>			69.886	12.665	100.00	9.954	

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16 SPKCHK AN11-72-DD			
Sample Name:	SPKCHK AN11-72-DD	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	63.161	8.138	16.84	4.357	BMB*
2	2.48	Chloride	37.446	5.776	11.95	3.721	BMB*
3	3.00	Nitrite	70.830	12.016	24.86	3.774	bMB*
4	3.70	Bromide	14.011	2.200	4.55	4.152	BMB*
5	4.22	Nitrate	86.717	16.259	33.64	4.356	BMB*
6	7.93	Sulfate	12.339	3.941	8.15	3.963	BMB
<b>Total:</b>			284.505	48.331	100.00	24.323	

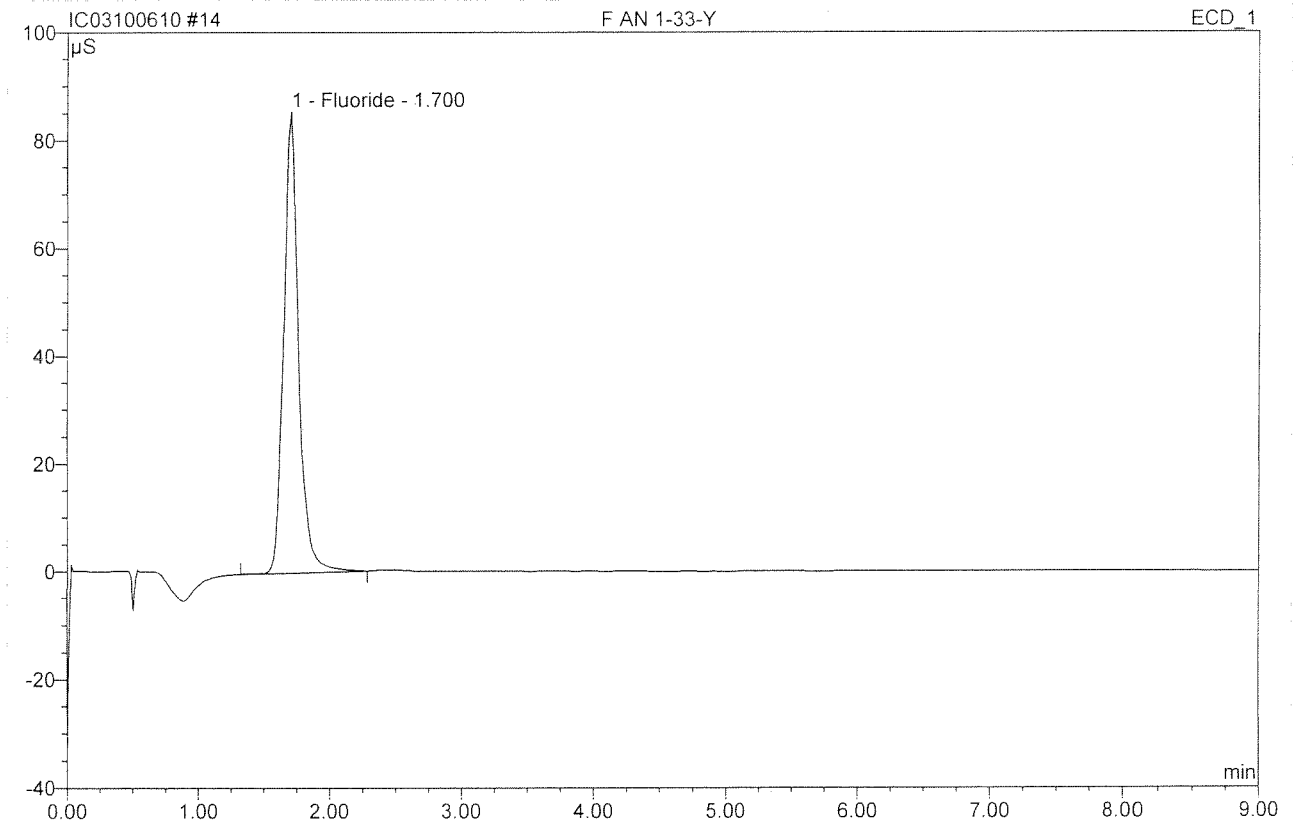
FV=4.0

10/6/10

**14 F AN 1-33-Y**

**F**

Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/6/2010 15:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

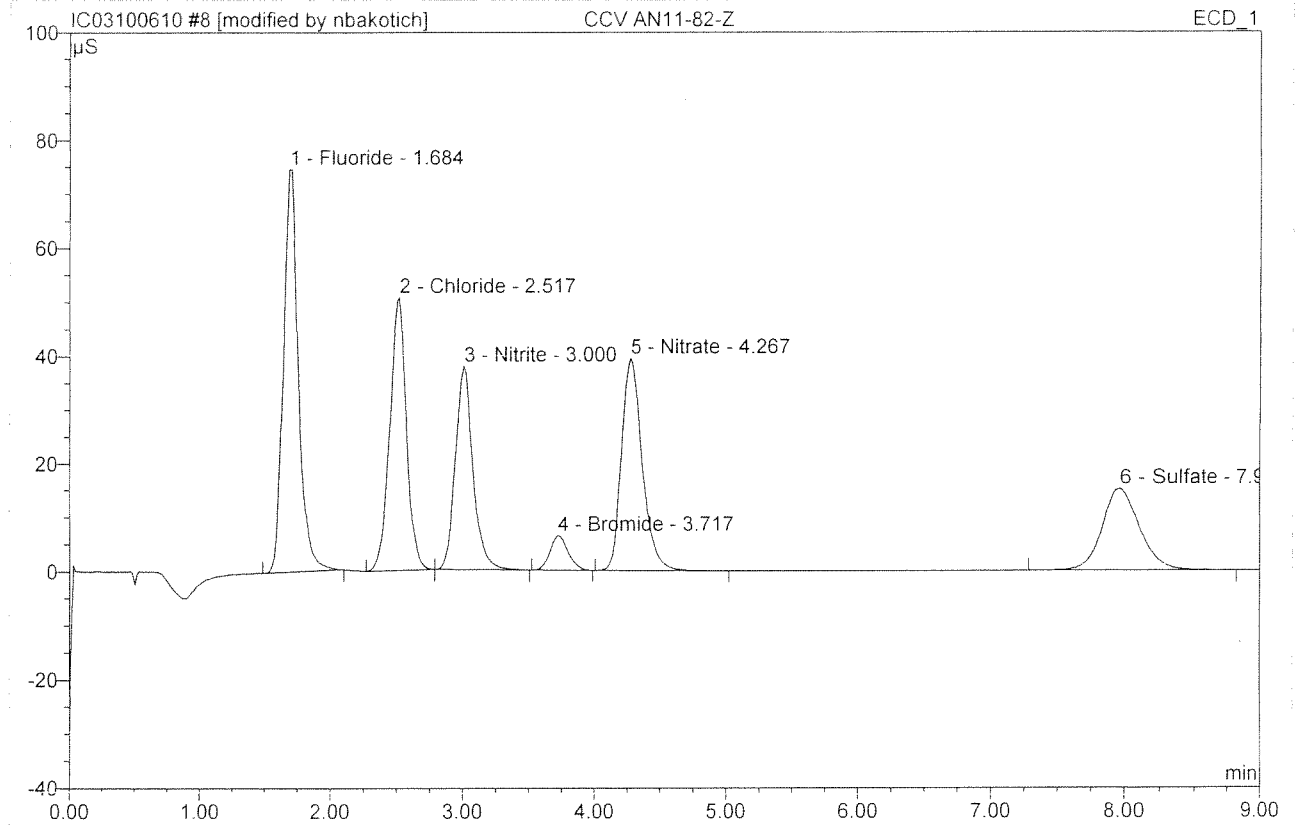


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	85.568	11.275	100.00	110 12.074	BMB
<b>Total:</b>			85.568	11.275	100.00	12.074	

**Before**

**OCT 06 2010**

<b>8 CCV AN11-82-Z</b>			
Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.758	9.876	27.33	5.288	BMB*
2	2.52	Chloride	50.609	7.361	20.37	4.742	BMB*
3	3.00	Nitrite	37.787	5.832	16.14	1.831	bMB*
4	3.72	Bromide	6.343	1.015	2.81	1.916	BMB*
5	4.27	Nitrate	39.378	7.237	20.03	1.939	BMB*
6	7.97	Sulfate	15.179	4.809	13.31	74.837	BMB
<b>Total:</b>			224.054	36.131	100.00	20.553	

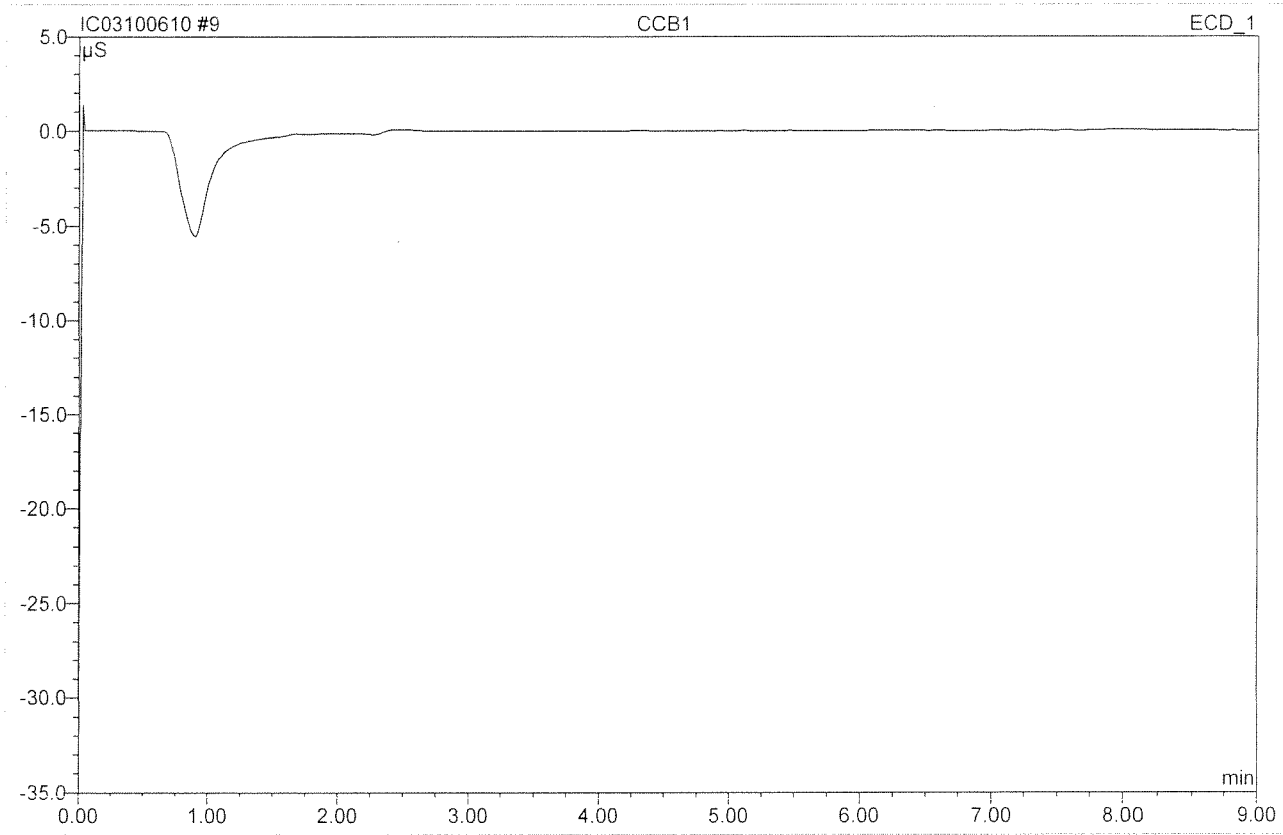
After Initials MB

OCT 06 2010

*Handwritten signature/initials*

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

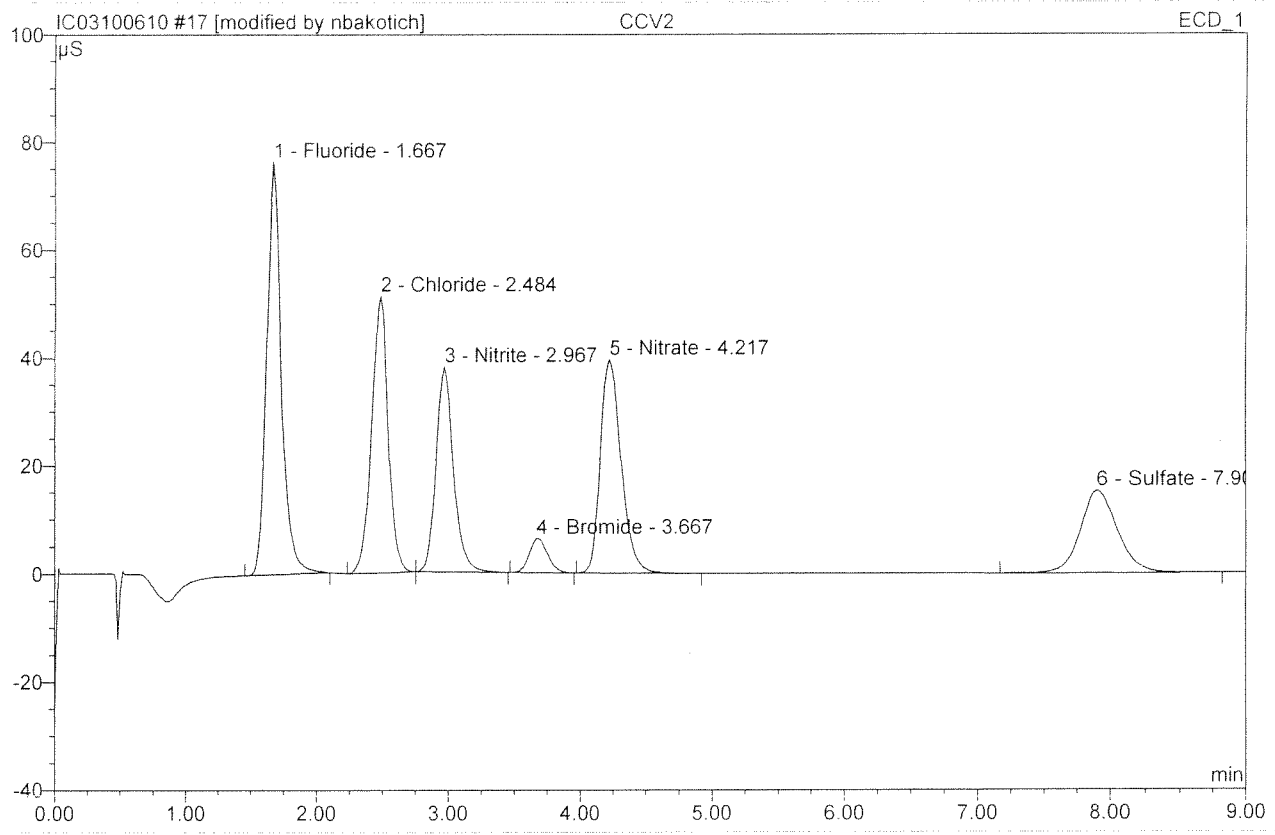


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*H*  
*10/6/10*



<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.481	9.935	27.45	106 5.319	BMB*
2	2.48	Chloride	51.165	7.378	20.39	95 4.753	BMB*
3	2.97	Nitrite	38.026	5.809	16.05	91 1.824	bMB
4	3.67	Bromide	6.329	1.013	2.80	96 1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.94	97 1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.37	97 4.866	BMB
<b>Total:</b>			226.802	36.189	100.00	20.608	

After Initials nb

OCT 06 2010

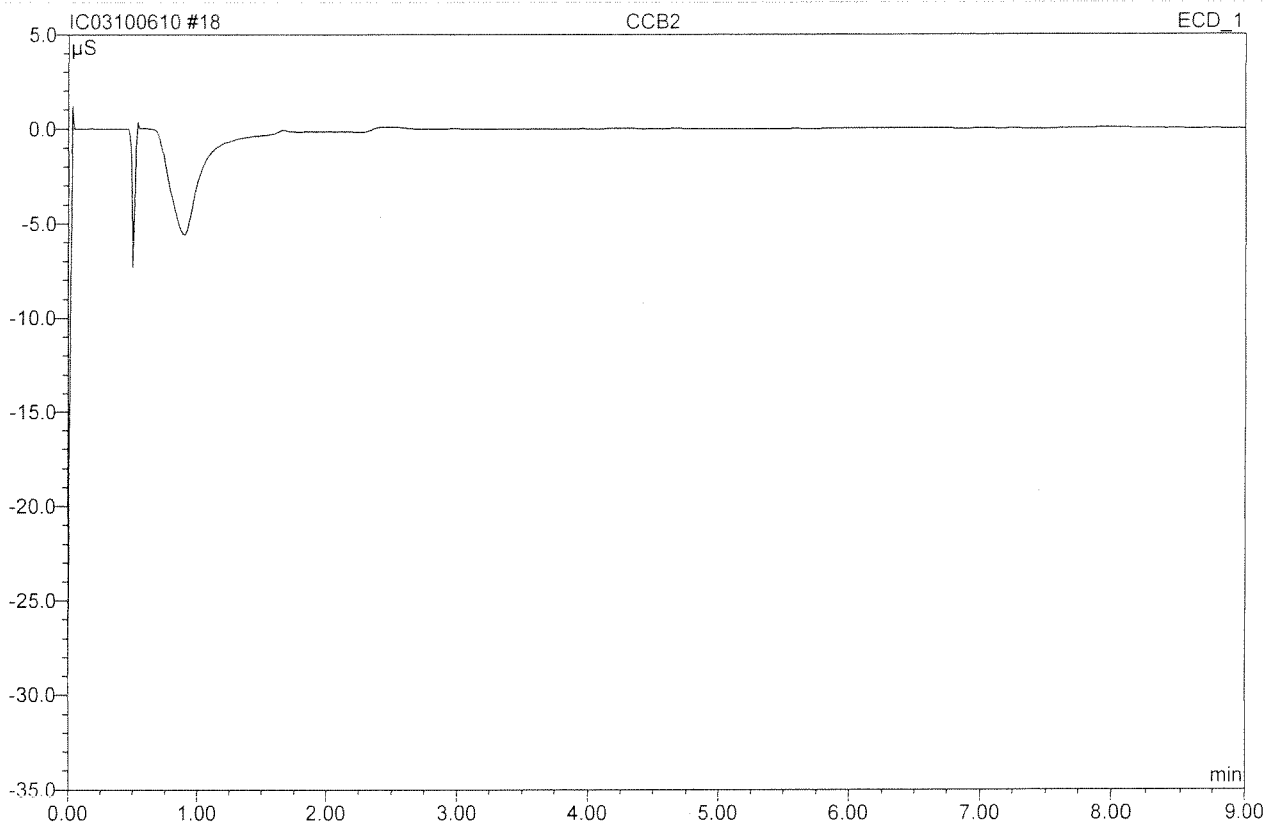
*nb*

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



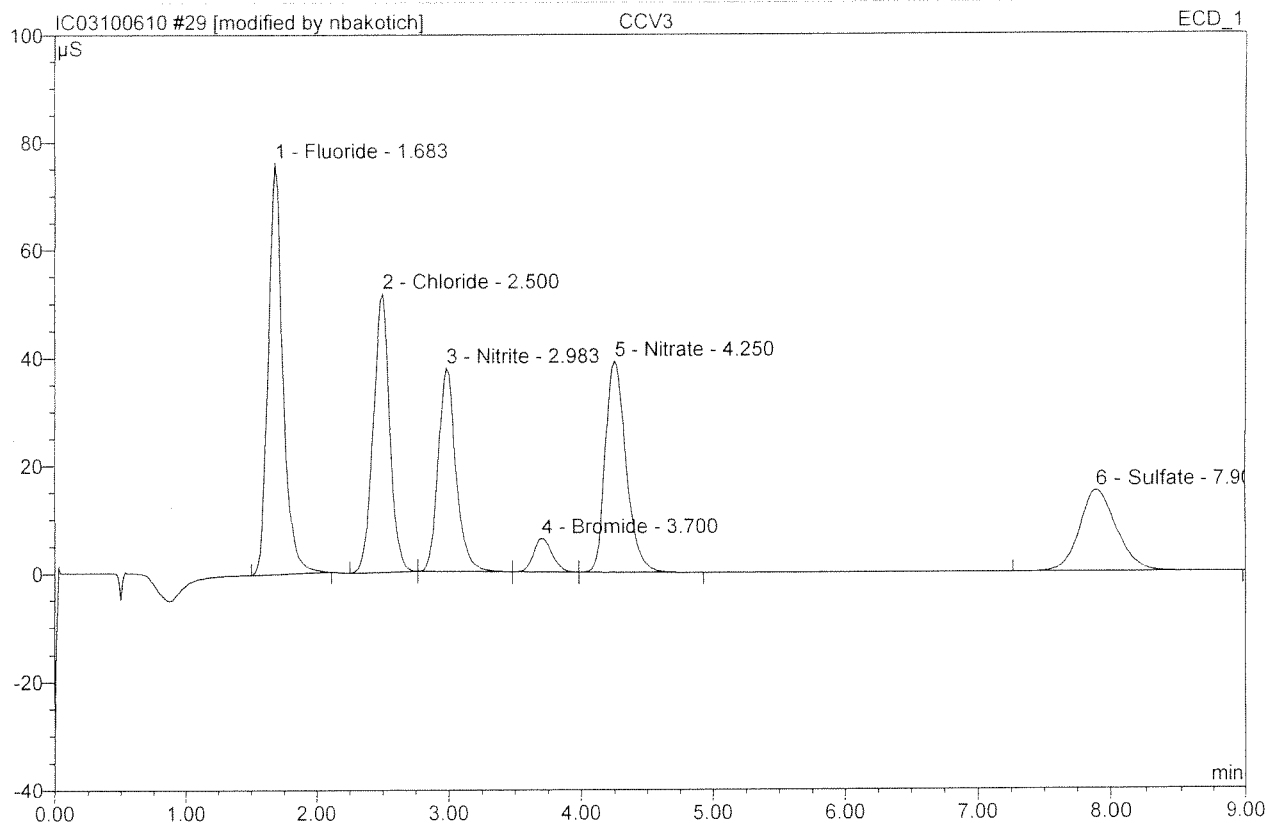
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*nbakotich*

## 29 CCV3

### CCV3

Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.352	9.836	27.22	103 5.266	BMB*
2	2.50	Chloride	51.638	7.422	20.54	96 4.781	BMb*
3	2.98	Nitrite	37.837	5.849	16.19	92 1.837	bMb
4	3.70	Bromide	6.328	1.023	2.83	97 1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.91	97 1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.31	97 4.835	BMB
<b>Total:</b>			226.475	36.128	100.00	20.576	

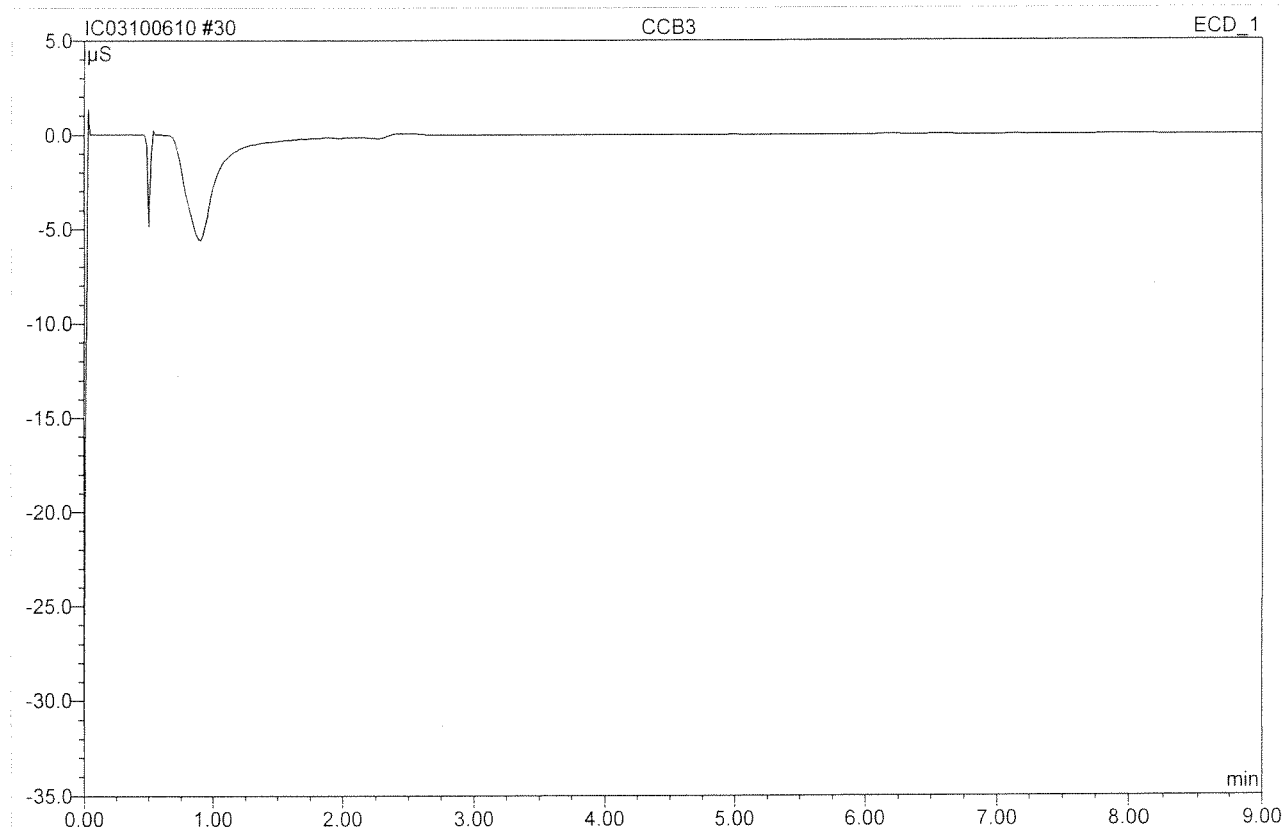
After Initials AB

OCT 06 2010

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

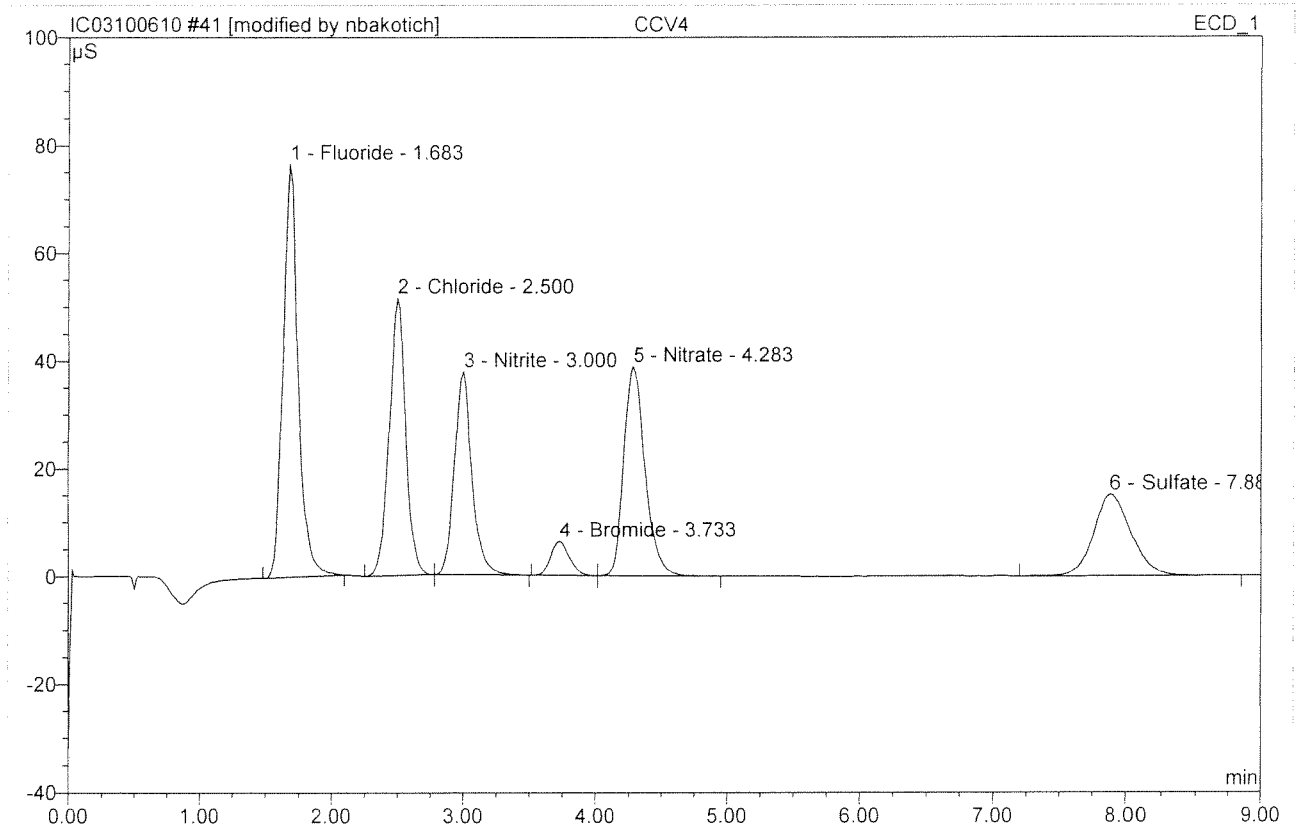
<b>30 CCB3</b>			
<b>CCB3</b>			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:57	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*K*  
*10/6/2010*

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



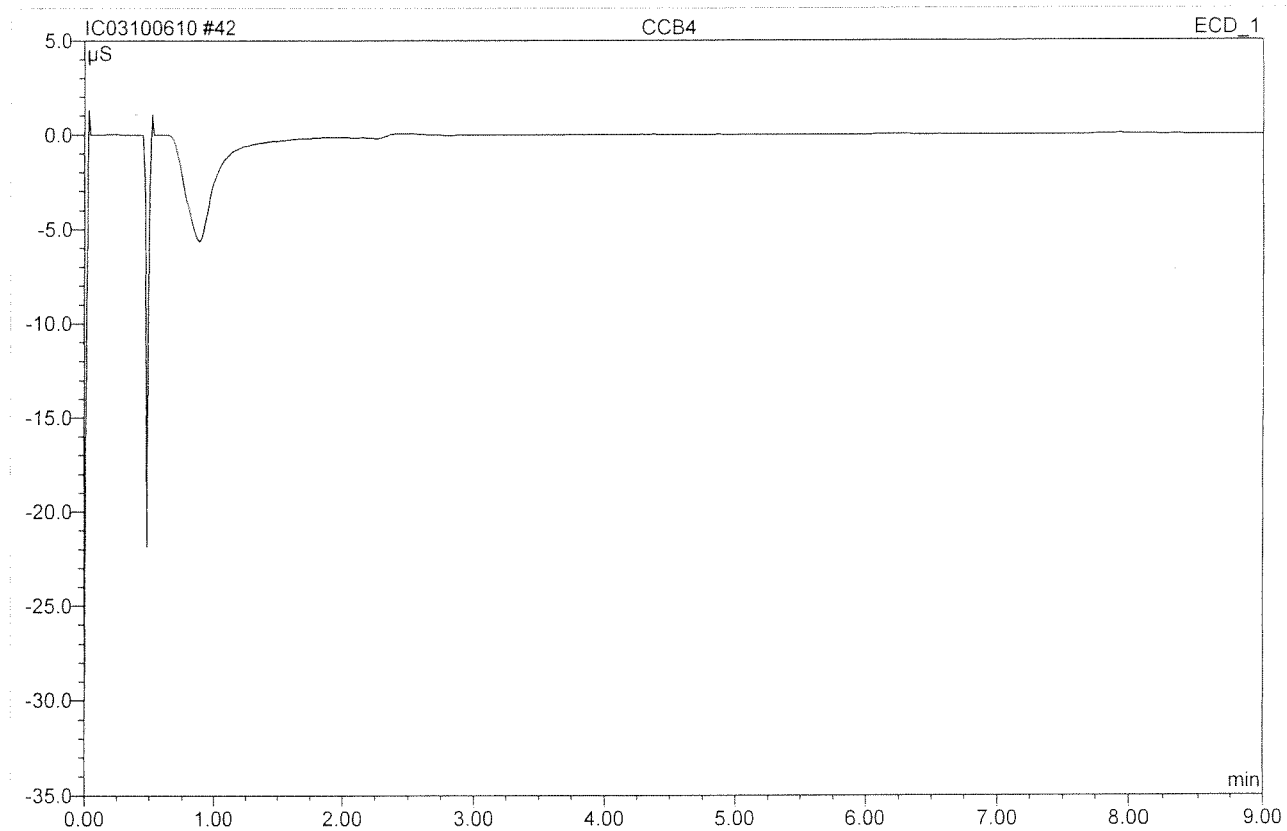
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.621	9.971	27.38	107 5.338	BMB*
2	2.50	Chloride	51.511	7.452	20.46	96 4.801	BMb*
3	3.00	Nitrite	37.649	5.811	15.96	92 1.825	bMB
4	3.73	Bromide	6.284	1.024	2.81	97 1.933	BMb
5	4.28	Nitrate	38.842	7.306	20.06	98 1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.33	99 4.883	BMB
<b>Total:</b>			226.049	36.419	100.00	20.737	

After Initials nb

OCT 06 2010

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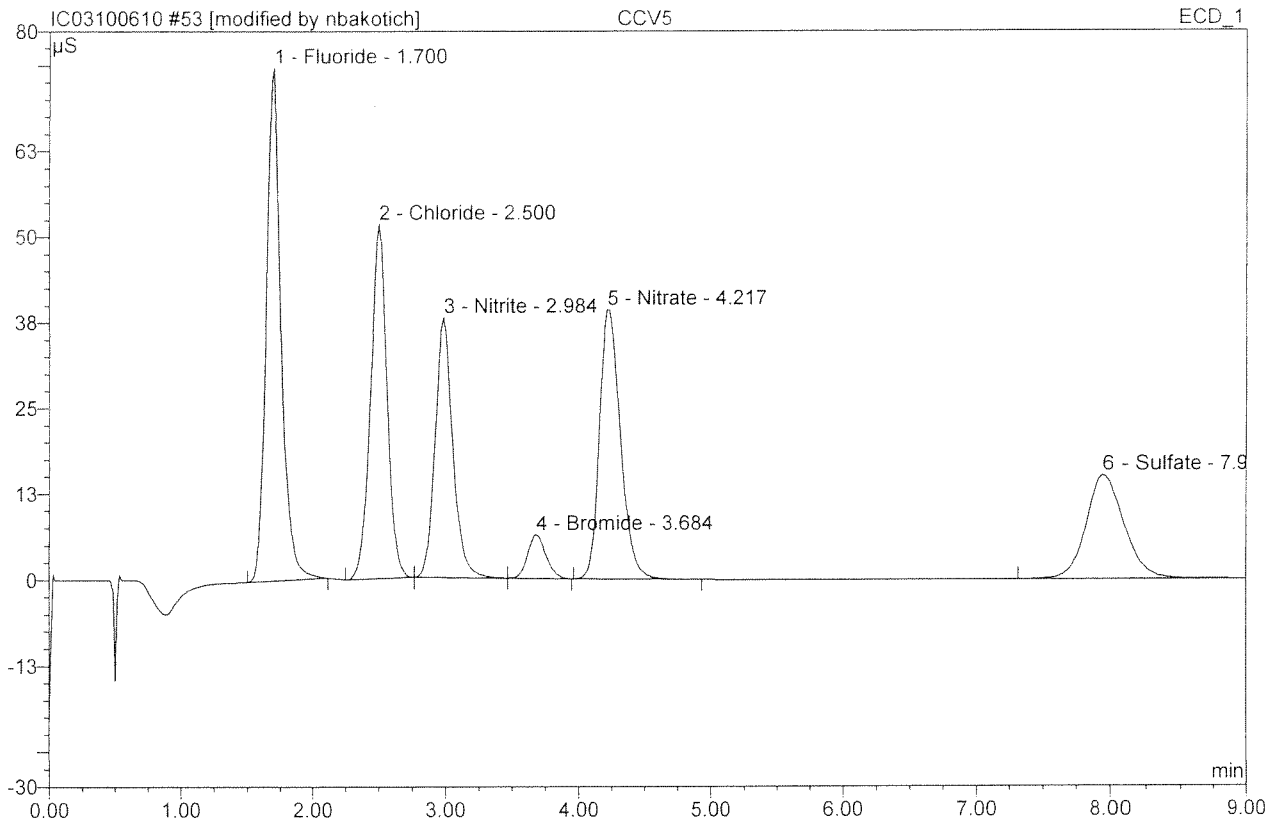
<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:15	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Kapolo*

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



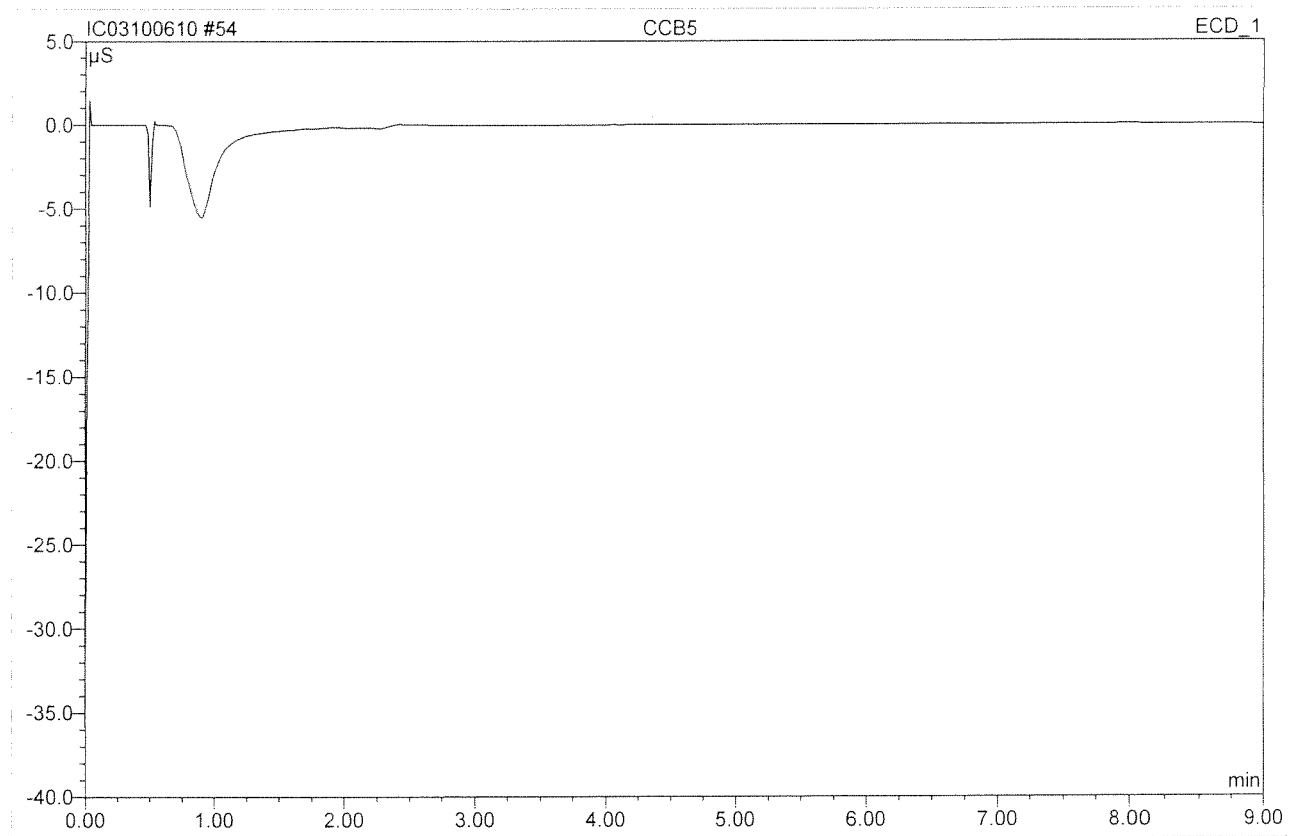
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.796	9.803	27.24	103 5.249	BMB*
2	2.50	Chloride	51.686	7.355	20.44	95 4.738	BMb*
3	2.98	Nitrite	37.927	5.786	16.08	91 1.817	bMb
4	3.68	Bromide	6.355	1.014	2.82	96 1.914	bMB
5	4.22	Nitrate	39.294	7.218	20.06	97 1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.36	97 4.833	BMB
<b>Total:</b>			225.182	35.982	100.00	20.484	

After Initials nb

OCT 07 2010

*dk*  
10/10/10

<b>54 CCB5</b>			
<b>CCB5</b>			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

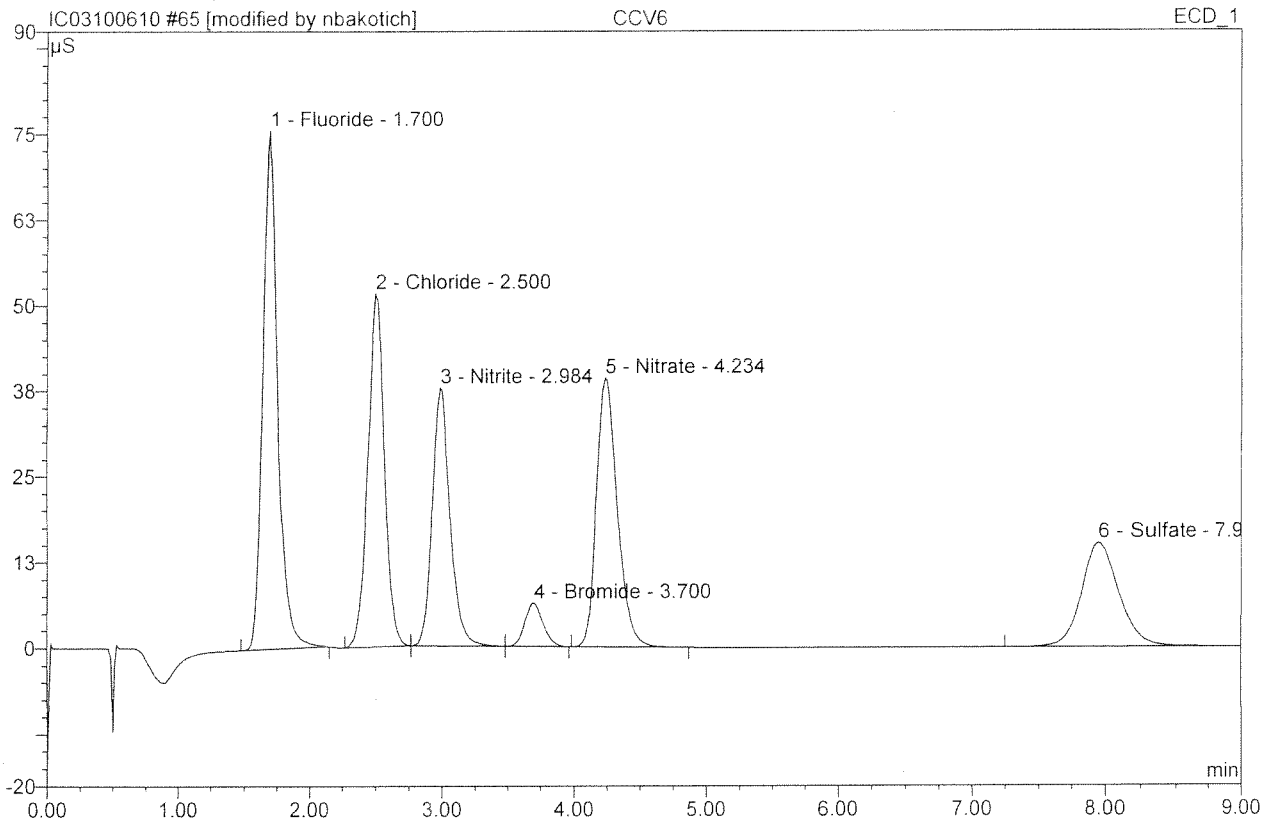


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



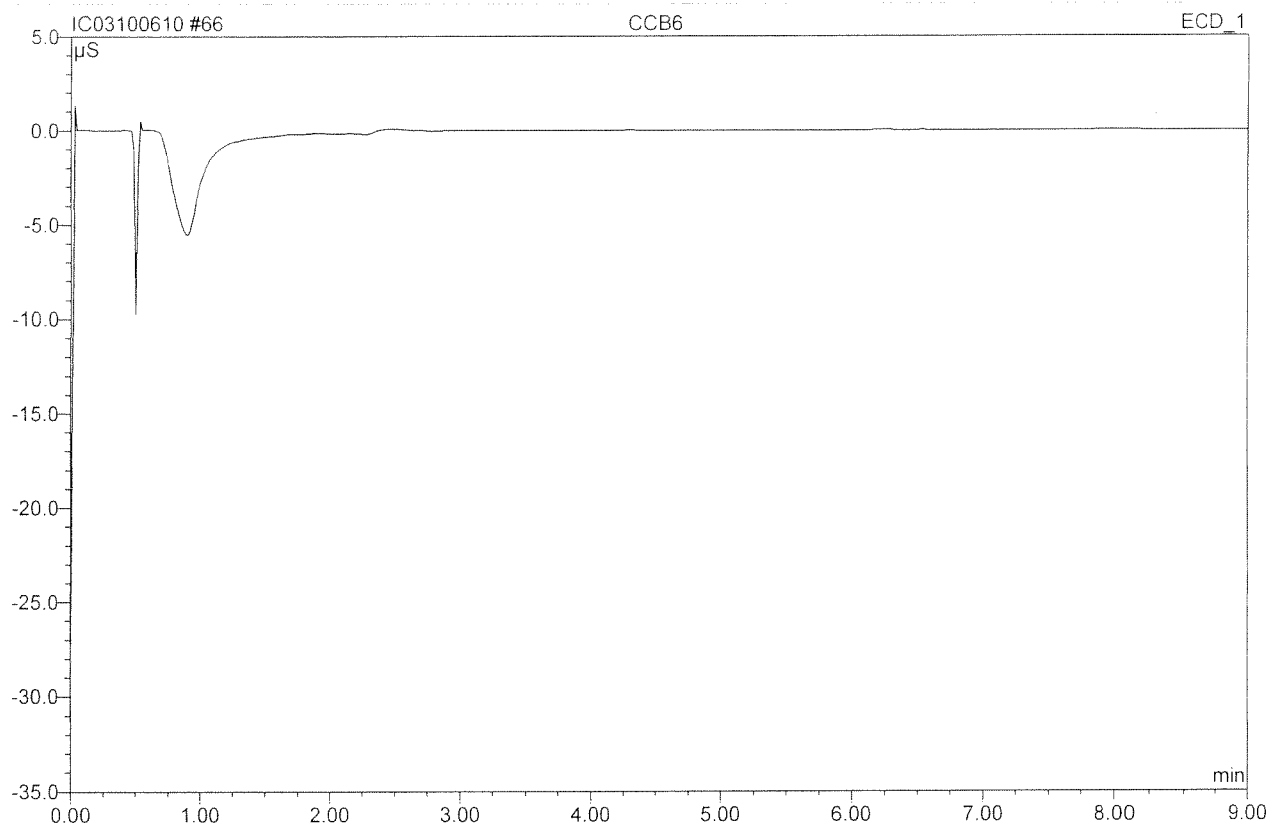
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.639	9.889	27.36	106 5.295	BMB*
2	2.50	Chloride	51.552	7.375	20.41	95 4.751	BMB*
3	2.98	Nitrite	37.632	5.836	16.15	92 1.833	bMb
4	3.70	Bromide	6.321	1.017	2.81	96 1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.91	97 1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.36	97 4.858	BMB
<b>Total:</b>			225.622	36.144	100.00	20.583	

After Initials nb

OCT 07 2010

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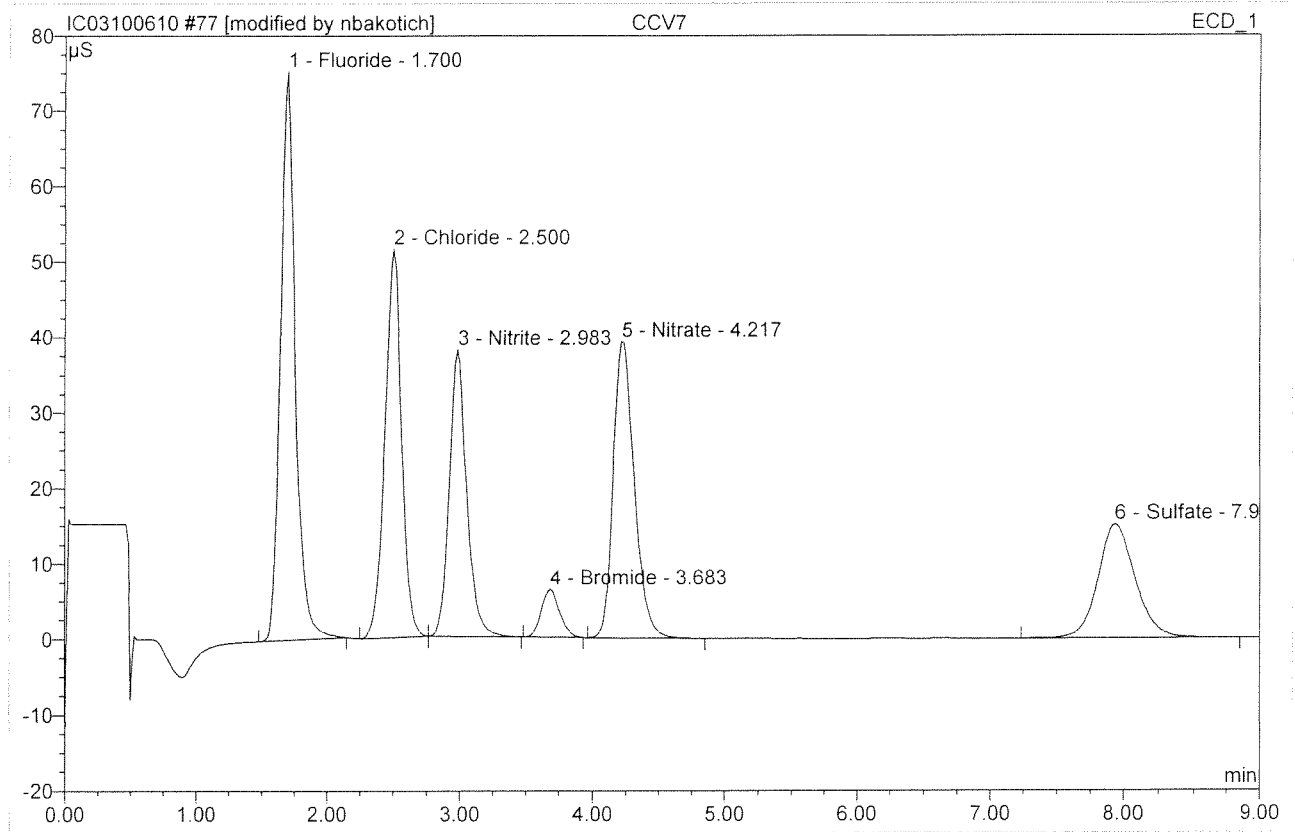
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*K. Bakotich*

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.379	9.799	27.20	105 5.246	BMB*
2	2.50	Chloride	51.460	7.403	20.55	95 4.769	BMB*
3	2.98	Nitrite	37.983	5.802	16.11	91 1.822	bMB*
4	3.68	Bromide	6.348	1.012	2.81	96 1.910	BMB*
5	4.22	Nitrate	39.249	7.207	20.01	97 1.931	BMB*
6	7.93	Sulfate	15.146	4.801	13.33	87 4.828	BMB
<b>Total:</b>			225.565	36.023	100.00	20.506	

After Initials pb

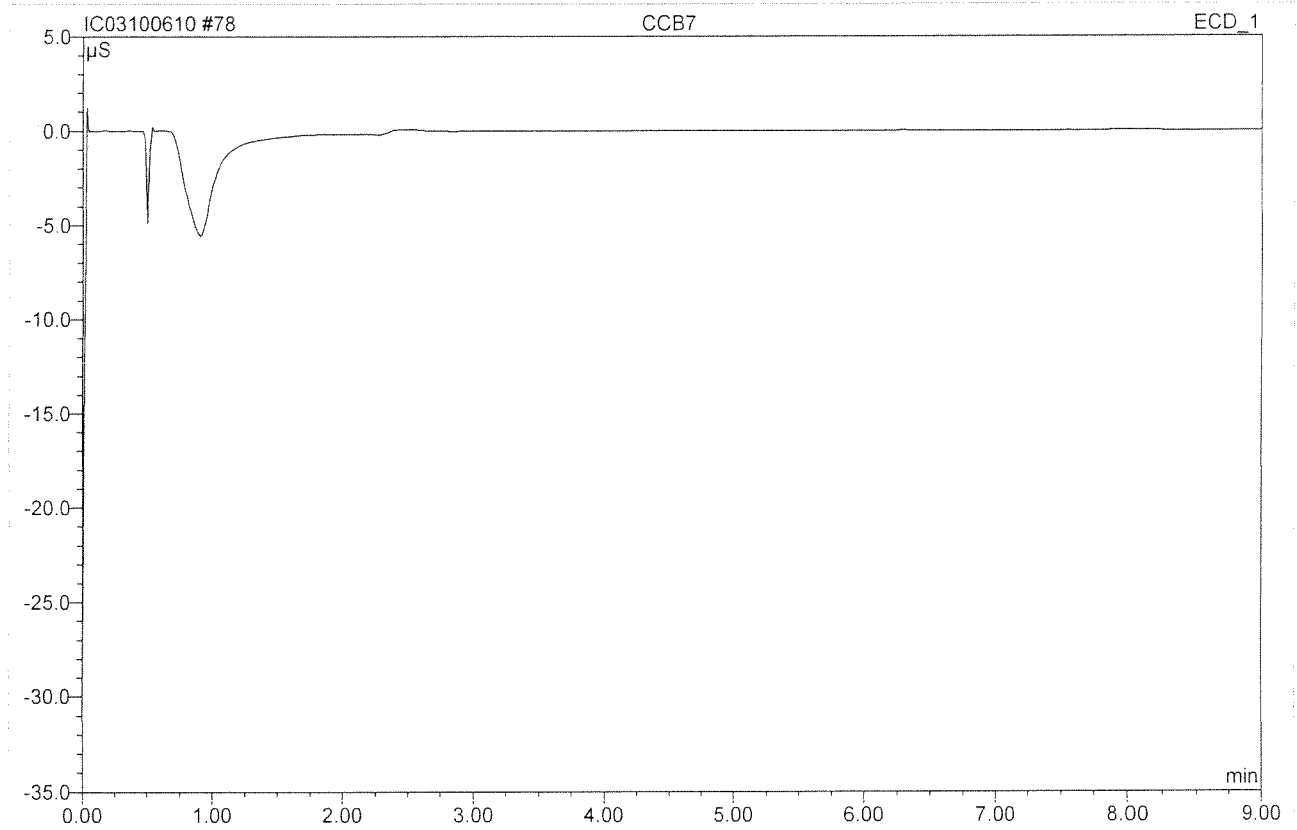
*Handwritten signature/initials*

OCT 07 2010

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

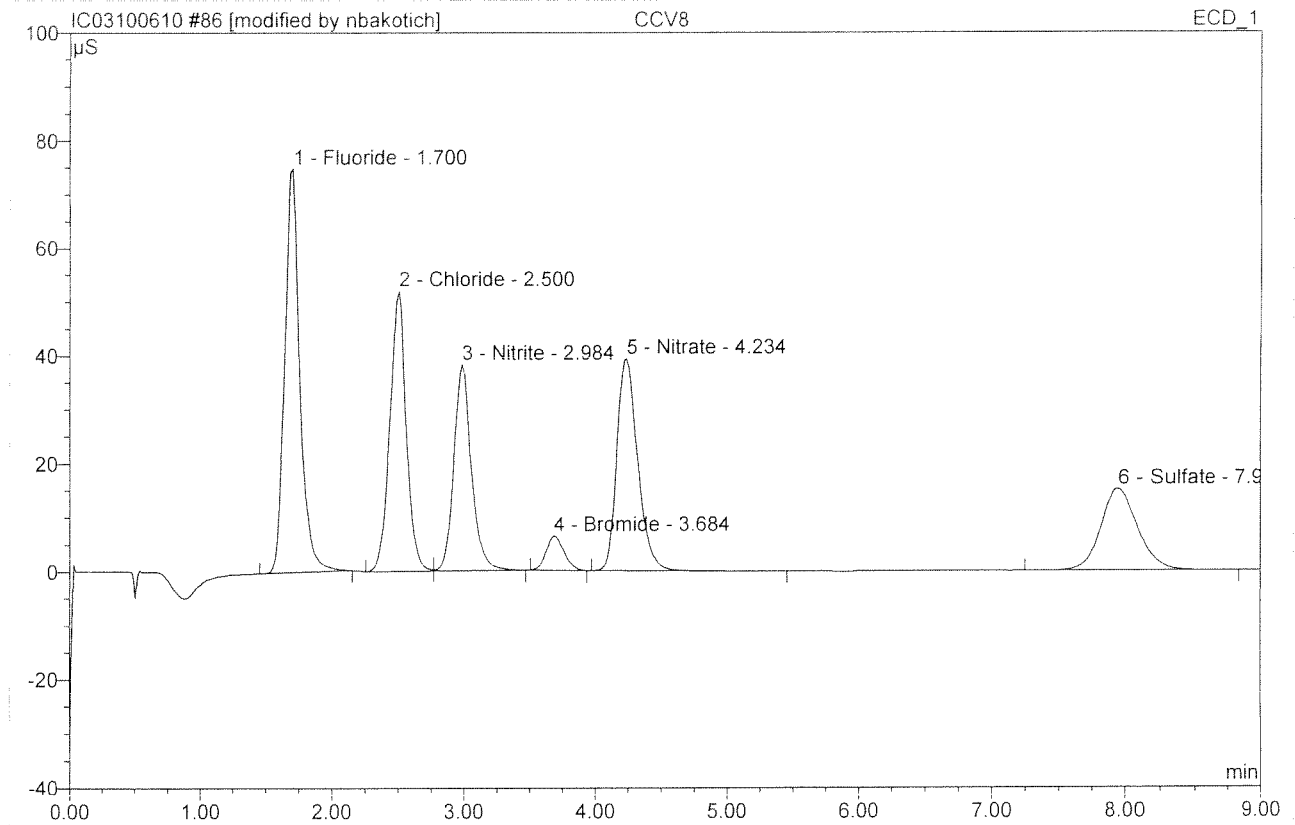
<b>78 CCB7</b>			
<b>CCB7</b>			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	77	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 4:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.858	9.853	27.19	100 5.275	BMB*
2	2.50	Chloride	51.883	7.456	20.57	96 4.803	BM *
3	2.98	Nitrite	38.232	5.908	16.30	93 1.855	MB*
4	3.68	Bromide	6.335	1.006	2.77	95 1.898	BMB*
5	4.23	Nitrate	39.347	7.204	19.88	97 1.930	BMB*
6	7.95	Sulfate	15.181	4.814	13.28	97 4.842	BMB
<b>Total:</b>			225.835	36.241	100.00	20.603	

After Initials AB

OCT 07 2010

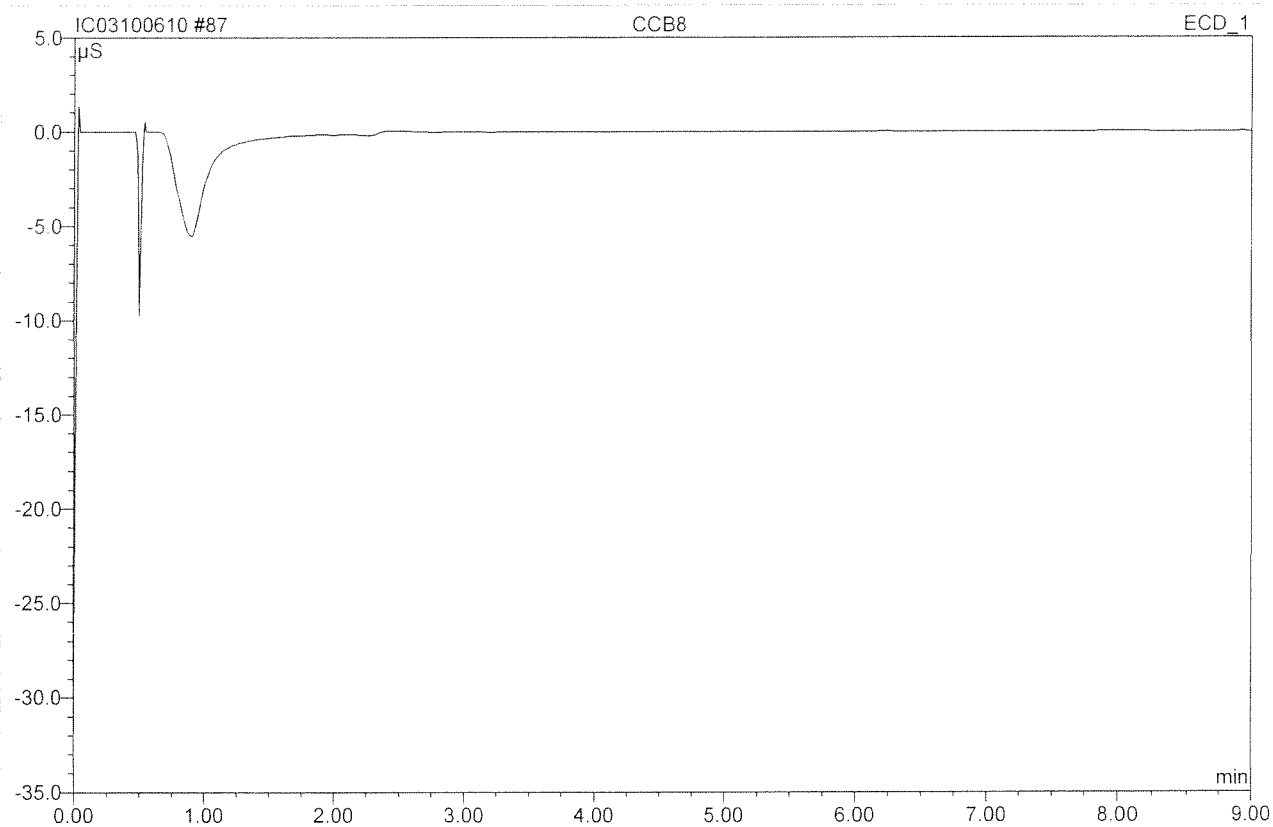
*K. Bakotich*

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

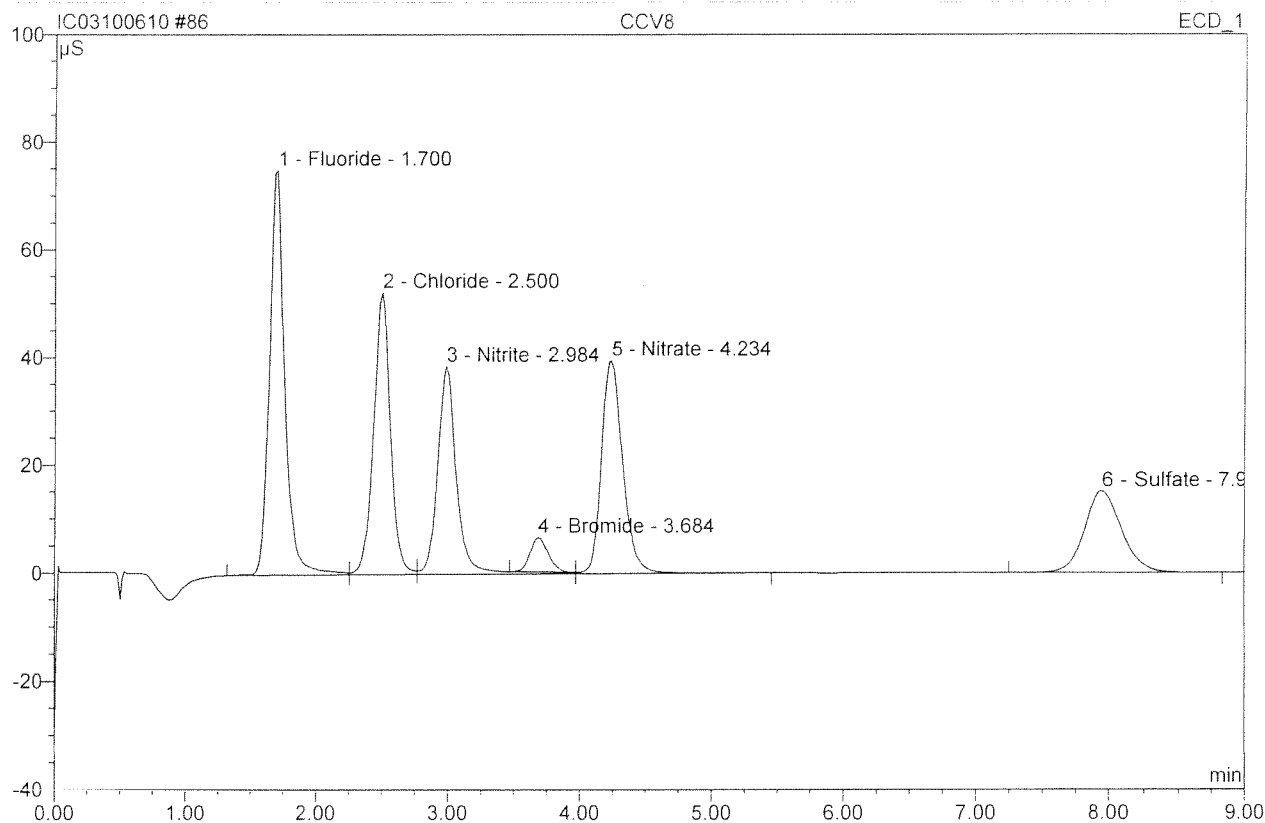
<b>87 CCB8</b>			
<b>CCB8</b>			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	82	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature*

<b>86 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	81	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 5:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

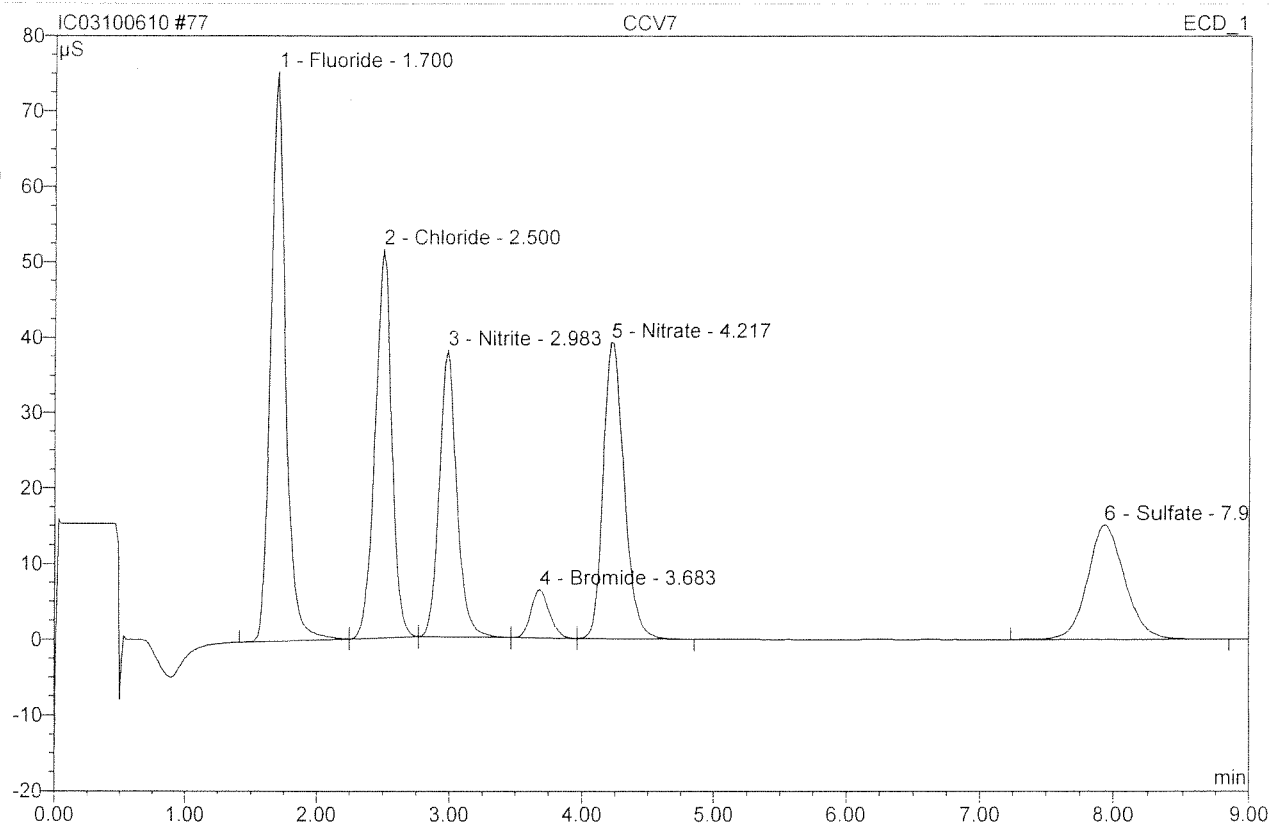


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.160	10.177	27.07	5.449	BM
2	2.50	Chloride	52.327	7.686	20.44	4.951	M
3	2.98	Nitrite	38.704	6.452	17.16	2.026	M
4	3.68	Bromide	6.367	1.020	2.71	1.925	Rd
5	4.23	Nitrate	39.615	7.446	19.81	1.995	MB
6	7.95	Sulfate	15.181	4.814	12.81	4.842	BMB
<b>Total:</b>			227.355	37.595	100.00	21.188	

Before

OCT 07 2010

<b>77 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 3:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



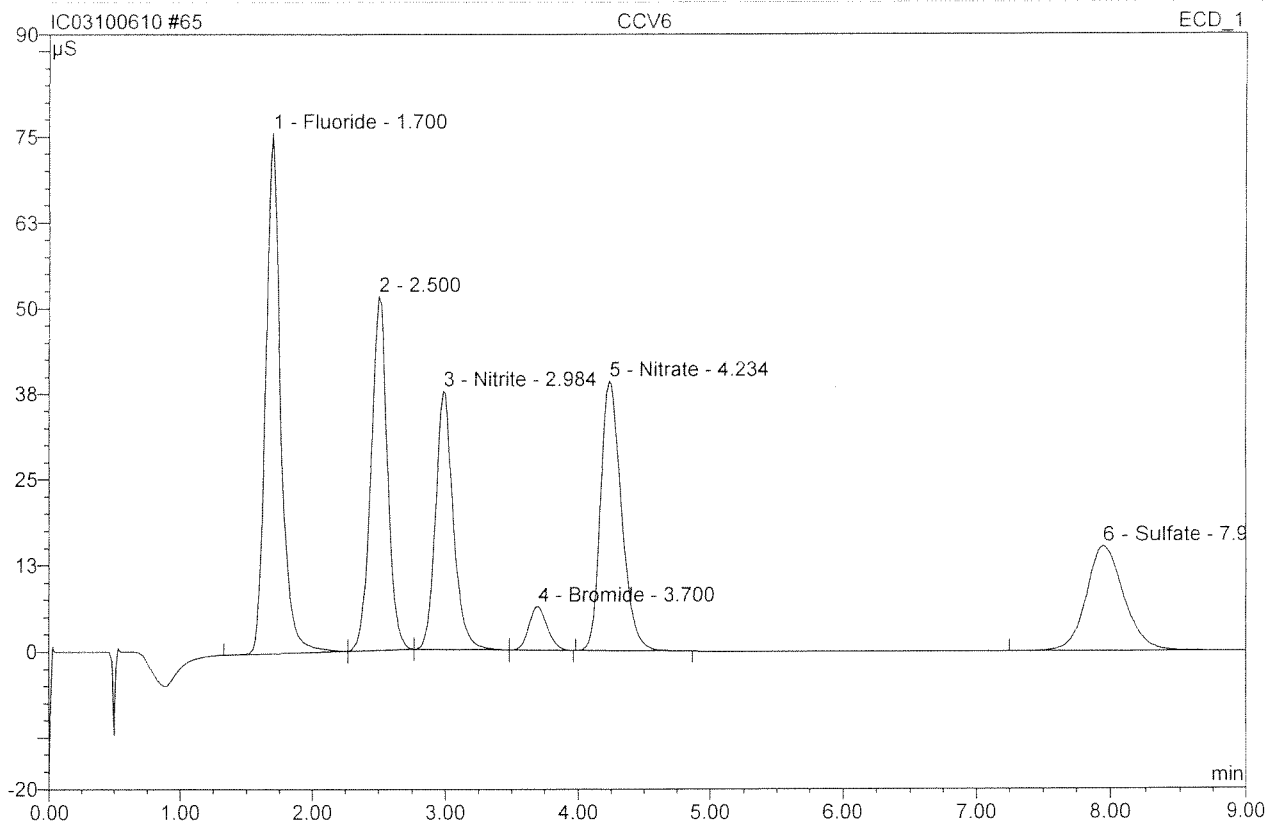
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.470	9.897	27.39	5.299	BMb
2	2.50	Chloride	51.460	7.403	20.49	4.769	bMb
3	2.98	Nitrite	37.983	5.802	16.06	1.822	bMb
4	3.68	Bromide	6.364	1.020	2.82	1.925	bMb
5	4.22	Nitrate	39.249	7.207	19.95	1.931	bMB
6	7.93	Sulfate	15.146	4.801	13.29	4.828	BMB
<b>Total:</b>			225.673	36.130	100.00	20.574	

Before

OCT 07 2010



<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 1:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



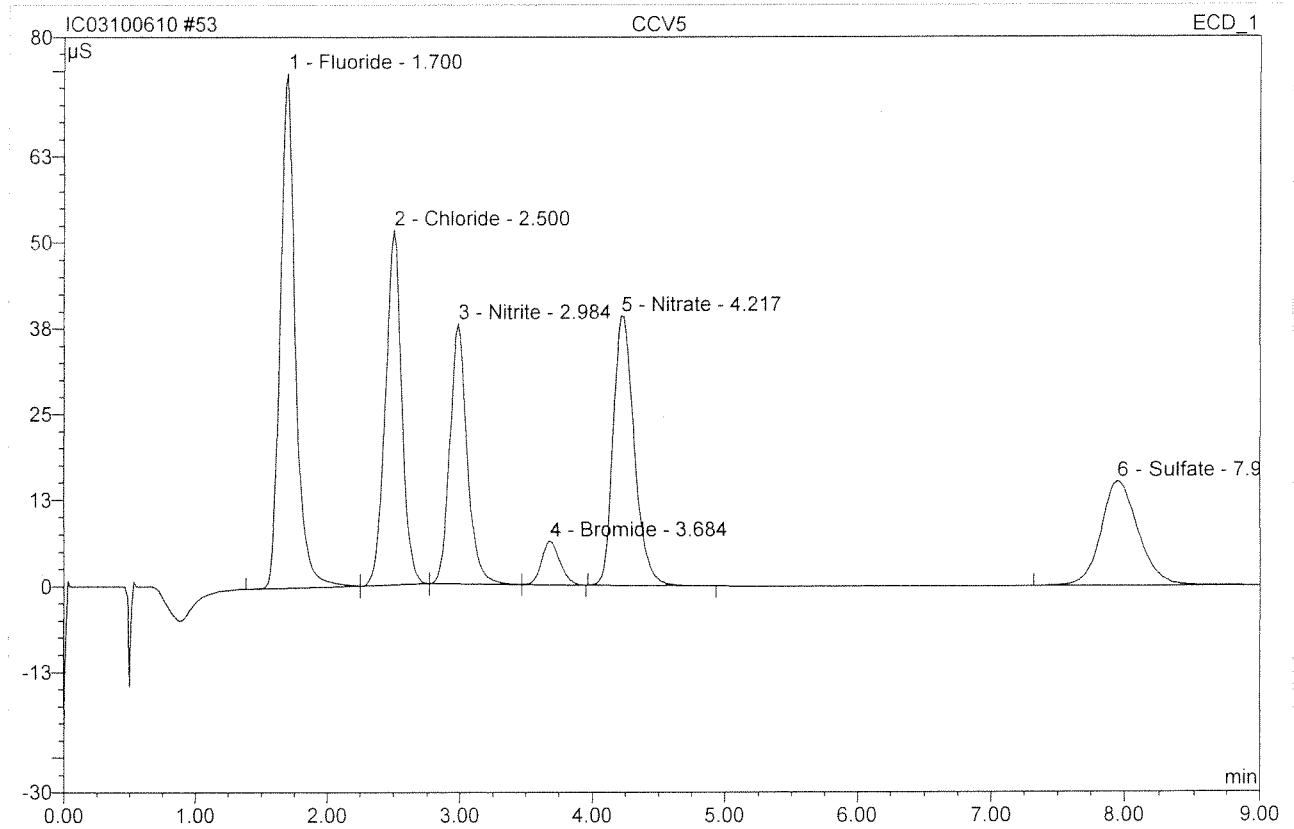
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.759	10.011	27.60	5.360	BMB
2	2.50	n.a.	51.552	7.375	20.34	n.a.	bMb
3	2.98	Nitrite	37.632	5.836	16.09	1.833	bMb
4	3.70	Bromide	6.321	1.017	2.80	1.919	bMB
5	4.23	Nitrate	39.280	7.197	19.85	1.928	BMB
6	7.95	Sulfate	15.197	4.830	13.32	4.858	BMB
<b>Total:</b>			225.742	36.266	100.00	15.897	

Before

OCT 7 2010

Chromleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 23:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

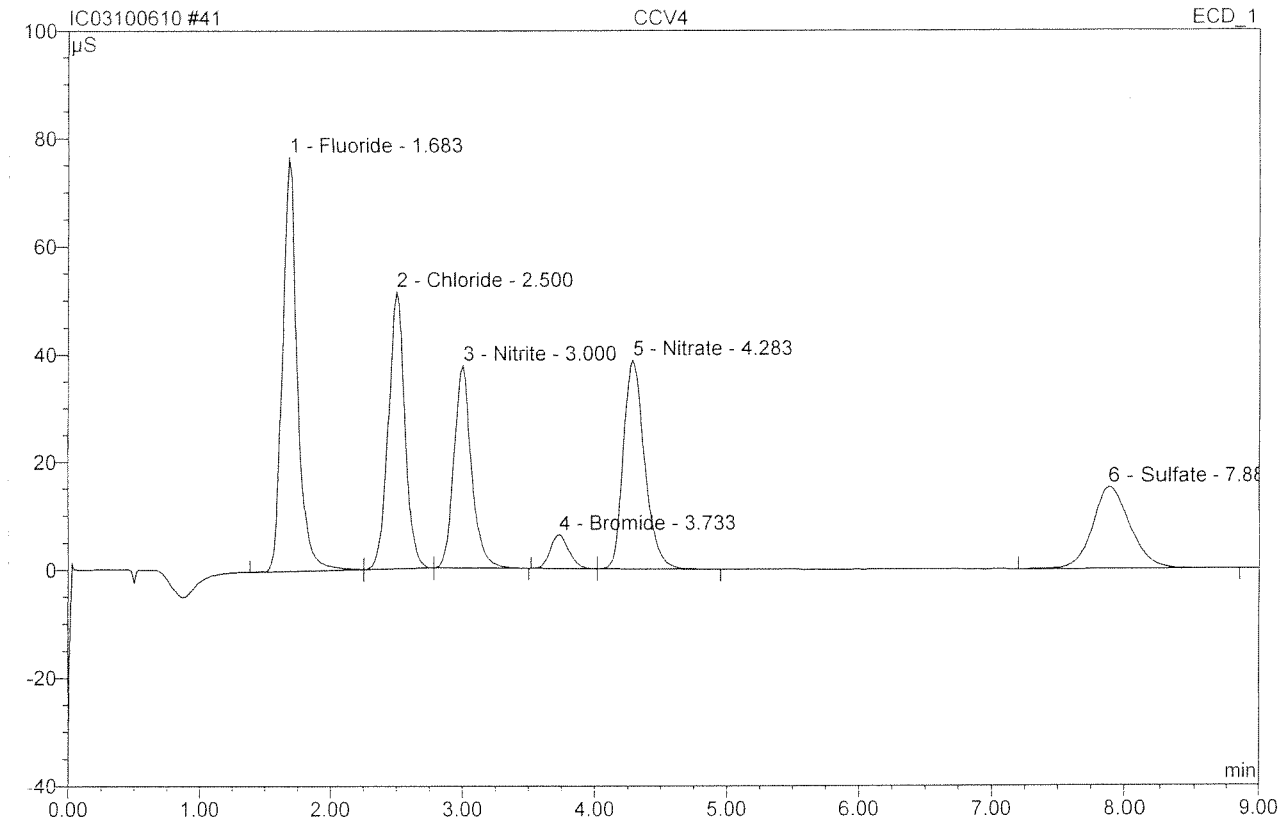


No.	Ret.Time min	Peak Name	Height $\mu\text{S}$	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.932	9.941	27.52	5.323	BMb
2	2.50	Chloride	51.686	7.355	20.36	4.738	bMb
3	2.98	Nitrite	37.927	5.786	16.02	1.817	bMb
4	3.68	Bromide	6.355	1.014	2.81	1.914	bMB
5	4.22	Nitrate	39.294	7.218	19.98	1.934	BMB
6	7.95	Sulfate	15.125	4.806	13.30	4.833	BMB
<b>Total:</b>			225.318	36.120	100.00	20.558	

Before

OCT 07 2010

<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 21:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

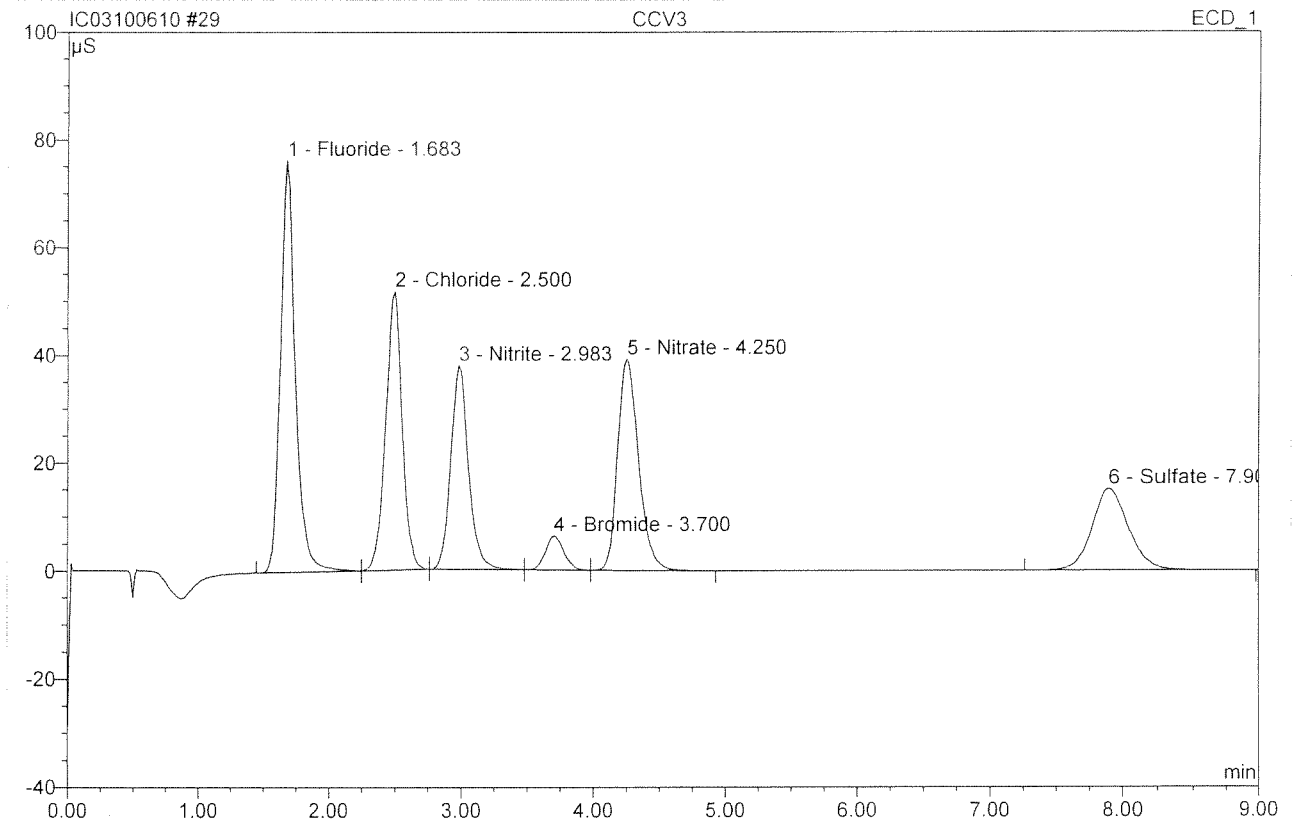


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.763	10.122	27.68	5.419	BMb
2	2.50	Chloride	51.511	7.452	20.38	4.801	bMb
3	3.00	Nitrite	37.649	5.811	15.89	1.825	bMB
4	3.73	Bromide	6.284	1.024	2.80	1.933	BMb
5	4.28	Nitrate	38.842	7.306	19.98	1.957	bMB
6	7.88	Sulfate	15.142	4.855	13.28	4.883	BMB
<b>Total:</b>			226.191	36.570	100.00	20.817	

Before

OCT 06 2010

<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.476	9.962	27.48	5.334	BMb
2	2.50	Chloride	51.638	7.422	20.47	4.781	bMb
3	2.98	Nitrite	37.837	5.849	16.13	1.837	bMb
4	3.70	Bromide	6.328	1.023	2.82	1.930	bMb
5	4.25	Nitrate	39.199	7.192	19.84	1.927	bMB
6	7.90	Sulfate	15.121	4.808	13.26	4.835	BMB
<b>Total:</b>			226.600	36.255	100.00	20.644	

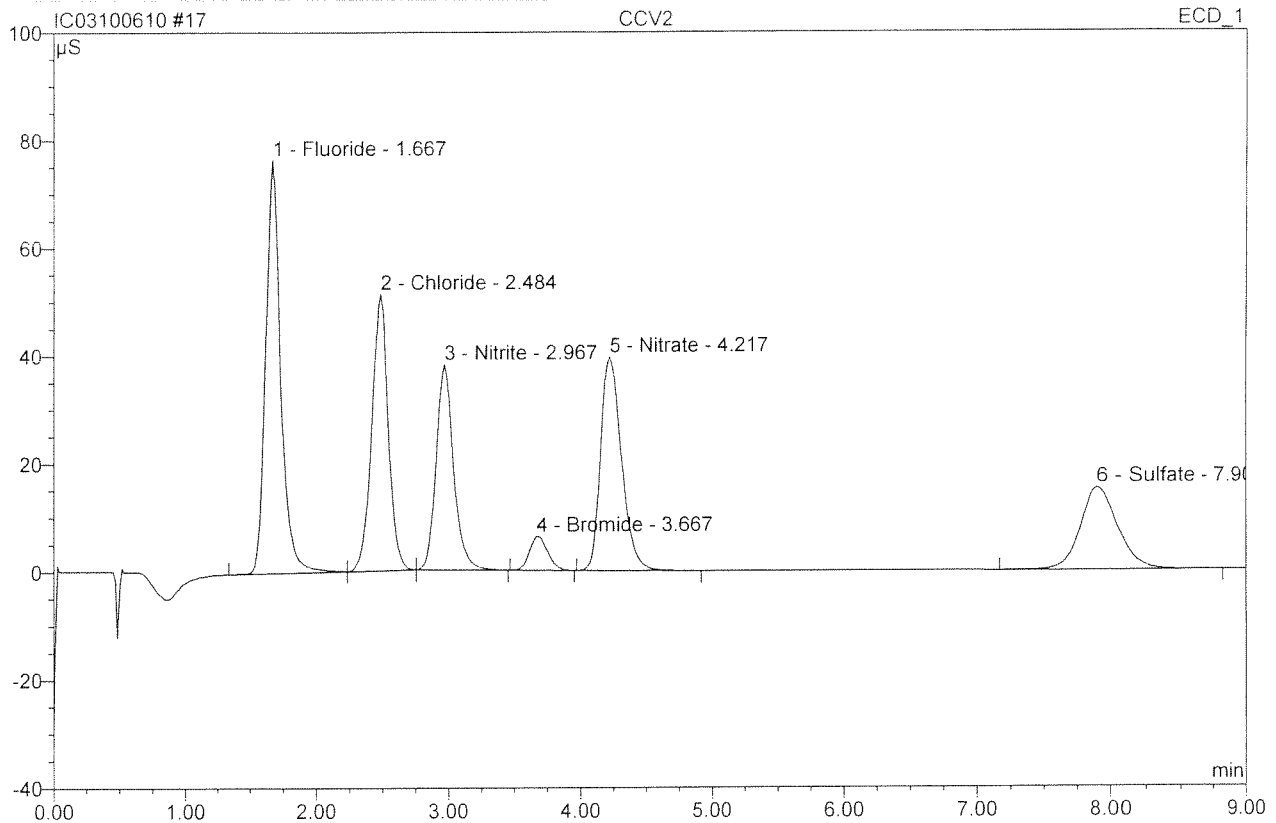
Before

OCT 06 2010

# 17 CCV2

## CCV2

Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 16:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

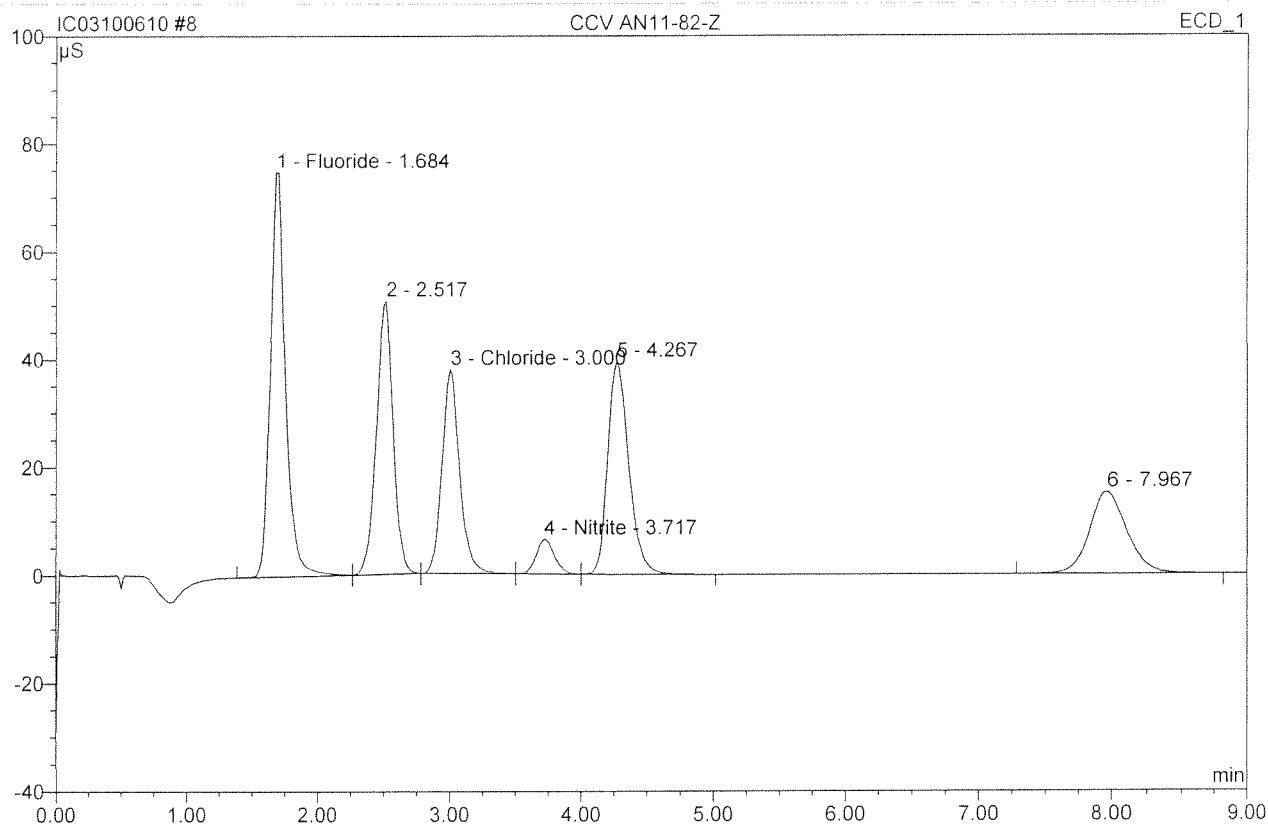


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	76.614	10.072	27.73	5.393	BMB
2	2.48	Chloride	51.165	7.378	20.31	4.753	bMb
3	2.97	Nitrite	38.026	5.809	15.99	1.824	bMB
4	3.67	Bromide	6.329	1.013	2.79	1.913	BMB
5	4.22	Nitrate	39.563	7.215	19.86	1.933	BMB
6	7.90	Sulfate	15.238	4.839	13.32	4.866	BMB
<b>Total:</b>			226.935	36.325	100.00	20.681	

Before

OCT 06 2010

<b>8 CCV AN11-82-Z</b>			
Sample Name:	CCV AN11-82-Z	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/6/2010 14:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

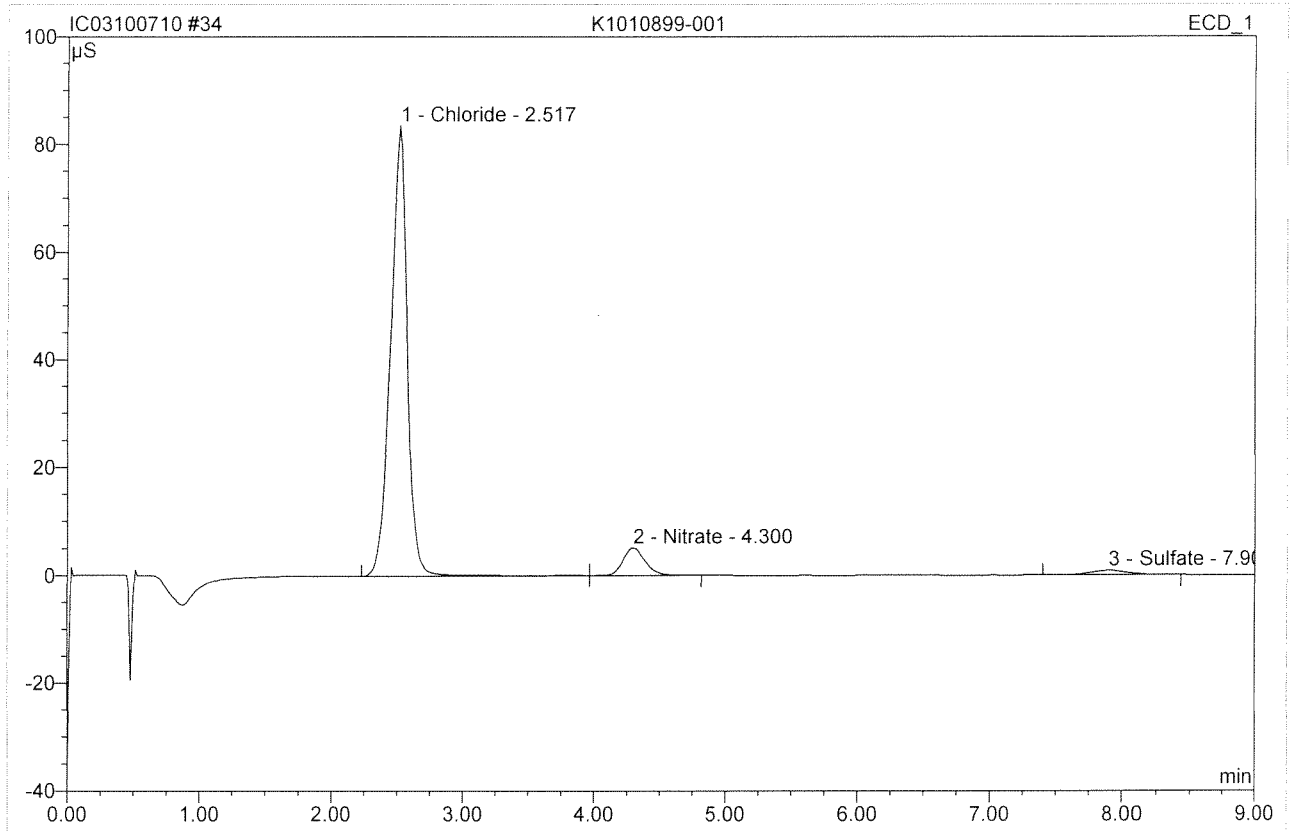


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	74.906	10.035	27.65	5.373	BMB
2	2.52	n.a.	50.609	7.361	20.28	n.a.	bMb
3	3.00	Chloride	37.787	5.832	16.07	3.757	bMb
4	3.72	Nitrite	6.350	1.019	2.81	0.320	bMb
5	4.27	n.a.	39.378	7.237	19.94	n.a.	bMB
6	7.97	n.a.	15.179	4.809	13.25	n.a.	BMB
<b>Total:</b>			224.208	36.293	100.00	9.450	

Before

OCT 06 2010

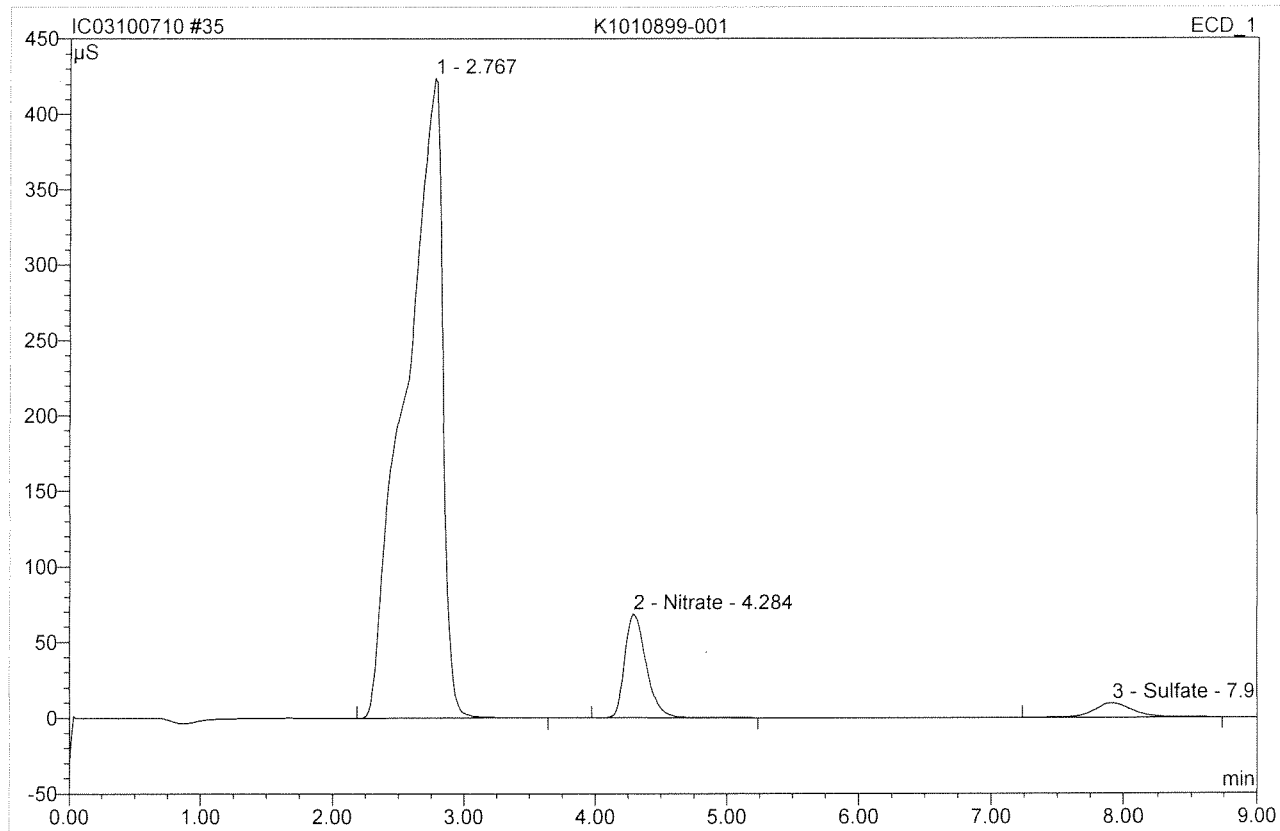
<b>34 K1010899-001</b>			
Sample Name:	<b>K1010899-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>33</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>100.0000</b>
Recording Time:	<b>10/7/2010 13:45</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.52	Chloride	83.587	12.239	90.47	788.425	BMB
2	4.30	Nitrate	5.149	1.000	7.39	26.776	bMB
3	7.90	Sulfate	0.870	0.290	2.14	29.136	BMB
<b>Total:</b>			89.605	13.528	100.00	844.337	

*H 10/10/10*

<b>35 K1010899-001</b>			
Sample Name:	<b>K1010899-001</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>34</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>10.0000</b>
Recording Time:	<b>10/7/2010 13:57</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.77	n.a.	424.183	136.411	89.54	n.a.	BMB
2	4.28	Nitrate	68.509	12.935	8.49	34.650	BMB
3	7.92	Sulfate	9.349	2.996	1.97	30.127	BMB
<b>Total:</b>			502.041	152.341	100.00	64.777	

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Sequence # EC03100710

Ion Chromatography Data Quality Report  
Inorganics

Run # 219820

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-33-CC</u>	Expires: <u>7.31.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-33-14</u>	Expires: <u>10.7.10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>2.3.11</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-V</u>	Expires: <u>1.22.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0524-10-04</u>	Expires: <u>12.10</u>

CCV

	CAS ID # = <u>AN1-52-99</u>	Expires <u>10.7.10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10.28.10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10.28.10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>12.22.10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>1.30.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike

2.0ppm X dilution factor	CAS ID# = <u>AN1-72-EE</u>	Expires <u>10.7.10</u>
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>1.11.11</u>
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>1.11.11</u>
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>1.11.11</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>1.11.11</u>
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>1.11.11</u>
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>1.11.11</u>

Analyst: ab Date: 10.7.10

First Review: I Date: 10.7.10

Final Review: A Date: 10/10/10





Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
11109-1	V				F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)	0.2515		✓
-2					F			
					Cl			
					NO2			
					Br			
					(NO3)	2.515		✓
					SO4			
11102-2	V				F			
					(Cl)			
					(NO2)			✓
					Br			
					(NO3)			✓
					(SO4)			✓
-3		X			F			
					(Cl)			✓
					(NO2)			✓
					Br			
					(NO3)			✓
					(SO4)			✓
-4					F			
					(Cl)			✓
					(NO2)			✓
					Br			
					(NO3)			✓
					(SO4)			✓
-5					F			
					(Cl)			✓
					(NO2)			✓
					Br			
					(NO3)			✓
					(SO4)			✓
-6					F			
					(Cl)			✓
					(NO2)			✓
					Br			
					(NO3)			✓
					(SO4)			✓
11165-1	1				F			
					(Cl)			
					NO2			
					Br			
					(NO3)			✓
					(SO4)			✓
-2					F			
					(Cl)			
					NO2			
					Br			
					(NO3)			✓
					(SO4)			✓
-3					F			
					(Cl)	1/5		
					NO2			
					Br			
					(NO3)			✓
					(SO4)			✓

Service Request	Tier	QC	hold Time	Due Date	Arrons	Initial	Final	Done?
11165-4					F			
					(Cl)	1/5		✓
					NO2			
					Br			
					(NO3) (SO4)			✓
-5					F			
					(Cl)	2.5/5		
					NO2			
					Br			
					(NO3) (SO4)			
10936-9					F			
					(Cl)	1/100 → 1/5		✓
					NO2			
					Br			
					NO3 SO4			
-10					F			
					(Cl)			✓
					NO2			
					Br			
					NO3 SO4			
-11					F			
					(Cl)			✓
					NO2			
					Br			
					NO3 SO4			
-12					F			
					(Cl)			✓
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3 SO4			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
10851-5					F			
					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
-6					SO4	11100 → 2.5/5		✓
					F			
					Cl	0.25/5		✓
					NO2			
					Br			
10795-1					NO3			
					SO4	11100 → 1/5		✓
					F			
					Cl			
					NO2			
-2					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
10830-1					NO2			
					Br			
					NO3			
					SO4	0.20/5		✓
					F			
-2					Cl	0.25/5		✓
					NO2			
					Br			
					NO3			
					SO4	↓		✓
-3					F			
					Cl	0.20/5		✓
					NO2			
					Br			
					NO3			
10899-1					SO4	↓		✓
					F			
					Cl	11100		✓
					NO2			
					Br			
					NO3			
					SO4	0.5/5		✓
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			

Sequence: IC03100710  
Operator: nbakotich

Page 1 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lvl2	Standard	1	200.0	epa300	epa300	Finished	7/20/2010 1:14:08 PM
2	std3/lvl3	Standard	2	200.0	epa300	epa300	Finished	7/20/2010 1:30:36 PM
3	std4/lvl4	Standard	3	200.0	epa300	epa300	Finished	7/20/2010 1:45:33 PM
4	std5/lvl5	Standard	4	200.0	epa300	epa300	Finished	7/20/2010 2:00:31 PM
5	std6/lvl6	Standard	5	200.0	epa300	epa300	Finished	7/20/2010 2:14:58 PM
6	std7/lvl7	Standard	6	200.0	epa300	epa300	Finished	7/20/2010 2:29:26 PM
7	std1/lvl1	Standard	7	200.0	epa300	epa300	Finished	7/20/2010 2:43:54 PM
8	CCV AN11-82-AA	Unknown	8	200.0	epa300	epa300	Finished	10/7/2010 8:42:17 AM
9	CCB1	Unknown	9	200.0	epa300	epa300	Finished	10/7/2010 8:53:45 AM
10	NO2 AN11-31-H	Unknown	10	200.0	epa300	epa300	Finished	10/7/2010 9:05:12 AM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:16:41 AM
12	NO3 AN1-33-V	Unknown	11	200.0	epa300	epa300	Finished	10/7/2010 9:28:08 AM
13	CLSO4 ERA 0524-10-04	Unknown	12	200.0	epa300	epa300	Finished	10/7/2010 9:39:36 AM
14	F AN 1-33-Y	Unknown	13	200.0	epa300	epa300	Finished	10/7/2010 9:51:04 AM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	10/7/2010 10:02:32 AM
16	SPKCHK AN11-72-EE	Unknown	15	200.0	epa300	epa300	Finished	10/7/2010 10:13:59 AM
17	CCV2	Unknown	16	200.0	epa300	epa300	Finished	10/7/2010 10:25:27 AM
18	CCB2	Unknown	17	200.0	epa300	epa300	Finished	10/7/2010 10:36:55 AM
19	K1011109-001	Unknown	18	200.0	epa300	epa300	Finished	10/7/2010 10:48:22 AM
20	K1011109-002	Unknown	19	200.0	epa300	epa300	Finished	10/7/2010 10:59:50 AM
21	K1009074-001	Unknown	20	200.0	epa300	epa300	Finished	10/7/2010 11:11:18 AM
22	K1010851-005	Unknown	21	200.0	epa300	epa300	Finished	10/7/2010 11:22:46 AM
23	K1010851-006	Unknown	22	200.0	epa300	epa300	Finished	10/7/2010 11:34:13 AM
24	K1010851-005	Unknown	23	200.0	epa300	epa300	Finished	10/7/2010 11:45:41 AM
25	K1010851-006	Unknown	24	200.0	epa300	epa300	Finished	10/7/2010 11:57:09 AM
26	K1010795-001	Unknown	25	200.0	epa300	epa300	Finished	10/7/2010 12:08:36 PM
27	K1010795-002	Unknown	26	200.0	epa300	epa300	Finished	10/7/2010 12:20:04 PM
28	RB	Unknown	27	200.0	epa300	epa300	Finished	10/7/2010 12:31:31 PM
29	CCV3	Unknown	28	200.0	epa300	epa300	Finished	10/7/2010 12:43:00 PM
30	CCB3	Unknown	29	200.0	epa300	epa300	Finished	10/7/2010 12:54:27 PM
31	K1010850-001	Unknown	30	200.0	epa300	epa300	Finished	10/7/2010 1:11:19 PM
32	K1010850-002	Unknown	31	200.0	epa300	epa300	Finished	10/7/2010 1:22:48 PM
33	K1010850-003	Unknown	32	200.0	epa300	epa300	Finished	10/7/2010 1:34:15 PM
34	K1010899-001	Unknown	33	200.0	epa300	epa300	Finished	10/7/2010 1:45:42 PM
35	K1010899-001	Unknown	34	200.0	epa300	epa300	Finished	10/7/2010 1:57:11 PM
36	K1010936-009	Unknown	35	200.0	epa300	epa300	Finished	10/7/2010 2:08:38 PM
37	RB	Unknown	36	200.0	epa300	epa300	Finished	10/7/2010 2:20:06 PM
38	K1010936-010	Unknown	37	200.0	epa300	epa300	Finished	10/7/2010 2:31:34 PM
39	RB	Unknown	38	200.0	epa300	epa300	Finished	10/7/2010 2:43:02 PM
40	RB	Unknown	39	200.0	epa300	epa300	Finished	10/7/2010 2:54:30 PM
41	CCV4	Unknown	40	200.0	epa300	epa300	Finished	10/7/2010 3:05:58 PM
42	CCB4	Unknown	41	200.0	epa300	epa300	Finished	10/7/2010 3:17:25 PM

Sequence: IC03100710  
Operator: nbakotich

Page 2 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std1/lvl1	1.0000	
8	 CCV AN11-82-AA	1.0000	
9	 CCB1	1.0000	
10	 NO2 AN11-31-H	25.0000	NO2
11	 MB	1.0000	MB
12	 NO3 AN1-33-V	20.0000	NO3
13	 CLSO4 ERA 0524-10-04	1.0000	CLSO4
14	 F AN 1-33-Y	2.0000	F
15	 Br AN1-33-L	1.0000	Br
16	 SPKCHK AN11-72-EE	1.0000	
17	 CCV2	1.0000	CCV2
18	 CCB2	1.0000	CCB2
19	 K1011109-001	20.0000	
20	 K1011109-002	2.0000	
21	 K1009074-001	10.0000	F
22	 K1010851-005	200.0000	
23	 K1010851-006	500.0000	
24	 K1010851-005	20.0000	
25	 K1010851-006	20.0000	
26	 K1010795-001	5.0000	
27	 K1010795-002	10.0000	
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1010850-001	25.0000	
32	 K1010850-002	20.0000	
33	 K1010850-003	25.0000	
34	 K1010899-001	100.0000	
35	 K1010899-001	10.0000	
36	 K1010936-009	500.0000	
37	 RB	1.0000	
38	 K1010936-010	500.0000	
39	 RB	1.0000	
40	 RB	1.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4



Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
 Last Update: 10/7/2010 5:12:48 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1011162-002	Unknown	42	200.0	epa300	epa300	Finished	10/7/2010 3:54:53 PM
44	K1011162-003	Unknown	43	200.0	epa300	epa300	Finished	10/7/2010 4:06:20 PM
45	K1011162-004	Unknown	44	200.0	epa300	epa300	Finished	10/7/2010 4:17:48 PM
46	K1011162-005	Unknown	45	200.0	epa300	epa300	Finished	10/7/2010 4:29:16 PM
47	K1011162-006	Unknown	46	200.0	epa300	epa300	Finished	10/7/2010 4:40:43 PM
48	K1011165-001	Unknown	47	200.0	epa300	epa300	Finished	10/7/2010 4:52:11 PM
49	K1011165-002	Unknown	48	200.0	epa300	epa300	Finished	10/7/2010 5:03:39 PM
50	K1011165-003	Unknown	49	200.0	epa300	epa300	Finished	10/7/2010 5:15:06 PM
51	K1011165-004	Unknown	50	200.0	epa300	epa300	Finished	10/7/2010 5:26:34 PM
52	RB	Unknown	51	200.0	epa300	epa300	Finished	10/7/2010 5:38:02 PM
53	CCV5	Unknown	52	200.0	epa300	epa300	Finished	10/7/2010 5:49:30 PM
54	CCB5	Unknown	53	200.0	epa300	epa300	Finished	10/7/2010 6:00:58 PM
55	K1011165-005	Unknown	54	200.0	epa300	epa300	Finished	10/7/2010 6:12:26 PM
56	K1011162-003	Unknown	55	200.0	epa300	epa300	Finished	10/7/2010 6:23:53 PM
57	K1011162-003	Unknown	56	200.0	epa300	epa300	Finished	10/7/2010 6:35:21 PM
58	K1011162-003	Unknown	57	200.0	epa300	epa300	Finished	10/7/2010 6:46:49 PM
59	MB DEXT	Unknown	58	200.0	epa300	epa300	Finished	10/7/2010 6:58:17 PM
60	LCS DEXT	Unknown	59	200.0	epa300	epa300	Finished	10/7/2010 7:09:44 PM
61	K1010936-011	Unknown	60	200.0	epa300	epa300	Finished	10/7/2010 7:21:12 PM
62	RB	Unknown	61	200.0	epa300	epa300	Finished	10/7/2010 7:32:40 PM
63	K1010936-012	Unknown	62	200.0	epa300	epa300	Finished	10/7/2010 7:44:08 PM
64	RB	Unknown	63	200.0	epa300	epa300	Finished	10/7/2010 7:55:36 PM
65	CCV6	Unknown	64	200.0	epa300	epa300	Finished	10/7/2010 8:07:04 PM
66	CCB6	Unknown	65	200.0	epa300	epa300	Finished	10/7/2010 8:18:31 PM
67	K1010936-001	Unknown	66	200.0	epa300	epa300	Finished	10/7/2010 8:29:59 PM
68	RB	Unknown	67	200.0	epa300	epa300	Finished	10/7/2010 8:41:27 PM
69	RB	Unknown	68	200.0	epa300	epa300	Finished	10/7/2010 8:52:55 PM
70	K1010936-001	Unknown	69	200.0	epa300	epa300	Finished	10/7/2010 9:04:23 PM
71	RB	Unknown	70	200.0	epa300	epa300	Finished	10/7/2010 9:15:51 PM
72	RB	Unknown	71	200.0	epa300	epa300	Finished	10/7/2010 9:27:18 PM
73	K1010936-001	Unknown	72	200.0	epa300	epa300	Finished	10/7/2010 9:38:46 PM
74	RB	Unknown	73	200.0	epa300	epa300	Finished	10/7/2010 9:50:13 PM
75	RB	Unknown	74	200.0	epa300	epa300	Finished	10/7/2010 10:01:41 PM
76	CCV7	Unknown	75	200.0	epa300	epa300	Finished	10/7/2010 10:13:09 PM
77	CCB7	Unknown	76	200.0	epa300	epa300	Finished	10/7/2010 10:24:36 PM
78	K1010936-001	Unknown	77	200.0	epa300	epa300	Finished	10/7/2010 10:36:04 PM
79	RB	Unknown	78	200.0	epa300	epa300	Finished	10/7/2010 10:47:32 PM
80	RB	Unknown	79	200.0	epa300	epa300	Finished	10/7/2010 10:59:00 PM
81	K1010936-002	Unknown	80	200.0	epa300	epa300	Finished	10/7/2010 11:10:28 PM
82	RB	Unknown	81	200.0	epa300	epa300	Finished	10/7/2010 11:21:56 PM
83	K1010936-003	Unknown	82	200.0	epa300	epa300	Finished	10/7/2010 11:33:23 PM
84	RB	Unknown	83	200.0	epa300	epa300	Finished	10/7/2010 11:44:52 PM

Sequence: IC03100710  
Operator: nbakotich

Page 4 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

















No.	Name	Dil. Factor	Comment
43	 K1011162-002	2.0000	
44	 K1011162-003	2.0000	
45	 K1011162-004	2.0000	
46	 K1011162-005	2.0000	
47	 K1011162-006	2.0000	
48	 K1011165-001	2.0000	F
49	 K1011165-002	2.0000	F
50	 K1011165-003	5.0000	F
51	 K1011165-004	5.0000	F
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1011165-005	2.0000	
56	 K1011162-003	2.0000	D
57	 K1011162-003	5.0000	MS
58	 K1011162-003	5.0000	MSD
59	 MB DEXT	1.0000	
60	 LCS DEXT	10.0000	
61	 K1010936-011	500.0000	
62	 RB	1.0000	
63	 K1010936-012	500.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1010936-001	50.0000	
68	 RB	1.0000	
69	 RB	1.0000	
70	 K1010936-001	50.0000	D
71	 RB	1.0000	
72	 RB	1.0000	
73	 K1010936-001	100.0000	MS
74	 RB	1.0000	
75	 RB	1.0000	
76	 CCV7	1.0000	CCV7
77	 CCB7	1.0000	CCB7
78	 K1010936-001	100.0000	MSD
79	 RB	1.0000	
80	 RB	1.0000	
81	 K1010936-002	50.0000	
82	 RB	1.0000	
83	 K1010936-003	50.0000	
84	 RB	1.0000	

Sequence: IC03100710  
Operator: nbakotich

Page 5 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

















No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 K1010936-004	Unknown	84	200.0	epa300	epa300	Finished	10/7/2010 11:56:19 PM
86	 RB	Unknown	85	200.0	epa300	epa300	Finished	10/8/2010 12:07:47 AM
87	 RB	Unknown	86	200.0	epa300	epa300	Finished	10/8/2010 12:19:15 AM
88	 CCV8	Unknown	87	200.0	epa300	epa300	Finished	10/8/2010 12:30:43 AM
89	 CCB8	Unknown	88	200.0	epa300	epa300	Finished	10/8/2010 12:42:12 AM
90	 K1010936-005	Unknown	89	200.0	epa300	epa300	Finished	10/8/2010 12:53:39 AM
91	 RB	Unknown	90	200.0	epa300	epa300	Finished	10/8/2010 1:05:07 AM
92	 K1010936-006	Unknown	91	200.0	epa300	epa300	Finished	10/8/2010 1:16:35 AM
93	 RB	Unknown	92	200.0	epa300	epa300	Finished	10/8/2010 1:28:03 AM
94	 K1010936-007	Unknown	93	200.0	epa300	epa300	Finished	10/8/2010 1:39:31 AM
95	 RB	Unknown	94	200.0	epa300	epa300	Finished	10/8/2010 1:50:59 AM
96	 K1010936-008	Unknown	95	200.0	epa300	epa300	Finished	10/8/2010 2:02:26 AM
97	 RB	Unknown	96	200.0	epa300	epa300	Finished	10/8/2010 2:13:54 AM
98	 RB	Unknown	97	200.0	epa300	epa300	Finished	10/8/2010 2:25:22 AM
99	 CCV9	Unknown	98	200.0	epa300	epa300	Finished	10/8/2010 2:36:49 AM
100	 CCB9	Unknown	99	200.0	epa300	epa300	Finished	10/8/2010 2:48:17 AM

Sequence: IC03100710  
Operator: nbakotich

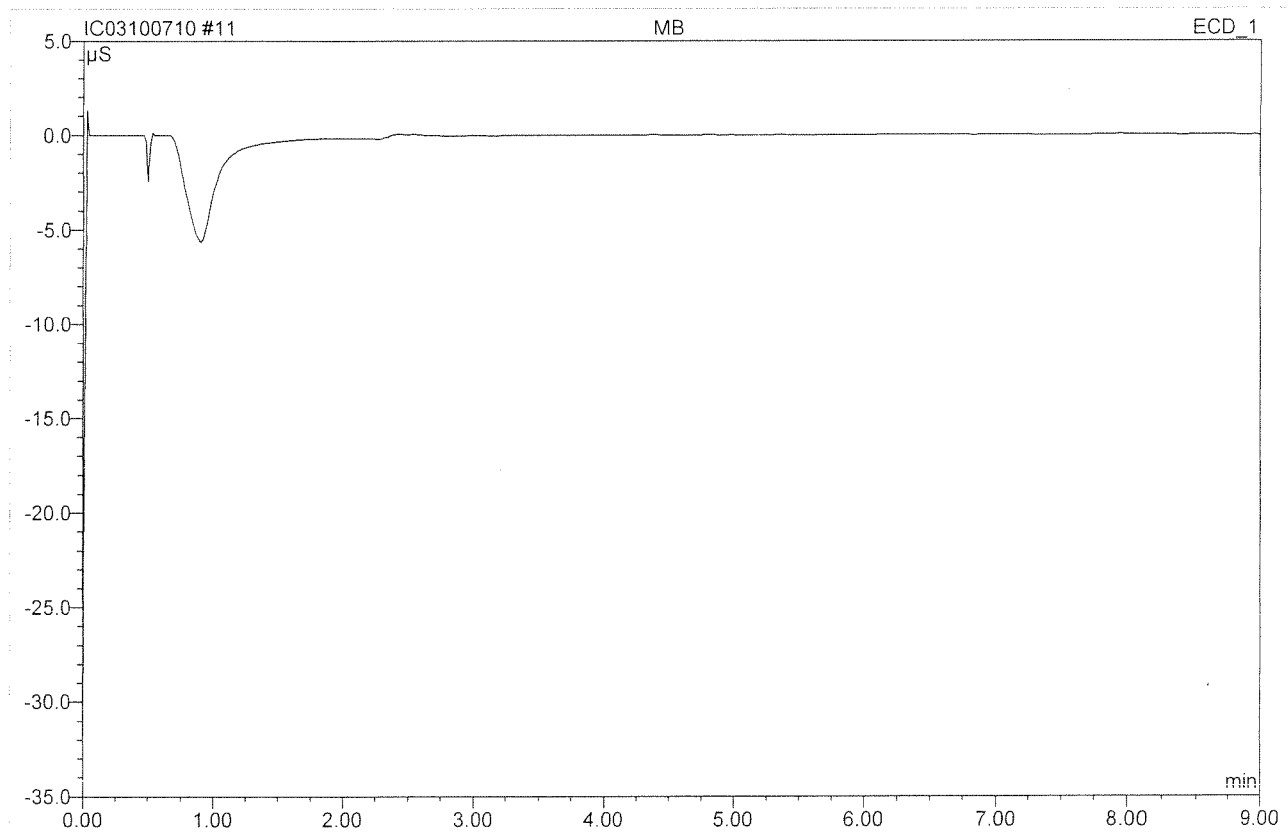
Page 6 of 6  
Printed: 10/8/2010 12:47:07 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 100

Created: 10/7/2010 8:28:03 AM by ACQWET10  
Last Update: 10/7/2010 5:12:48 PM by ACQWET10

No.	Name	Dil. Factor	Comment
85	 K1010936-004	50.0000	
86	 RB	1.0000	
87	 RB	1.0000	
88	 CCV8	1.0000	CCV8
89	 CCB8	1.0000	CCB8
90	 K1010936-005	50.0000	
91	 RB	1.0000	
92	 K1010936-006	50.0000	
93	 RB	1.0000	
94	 K1010936-007	50.0000	
95	 RB	1.0000	
96	 K1010936-008	50.0000	
97	 RB	1.0000	
98	 RB	1.0000	
99	 CCV9	1.0000	CCV9
100	 CCB9	1.0000	CCB9

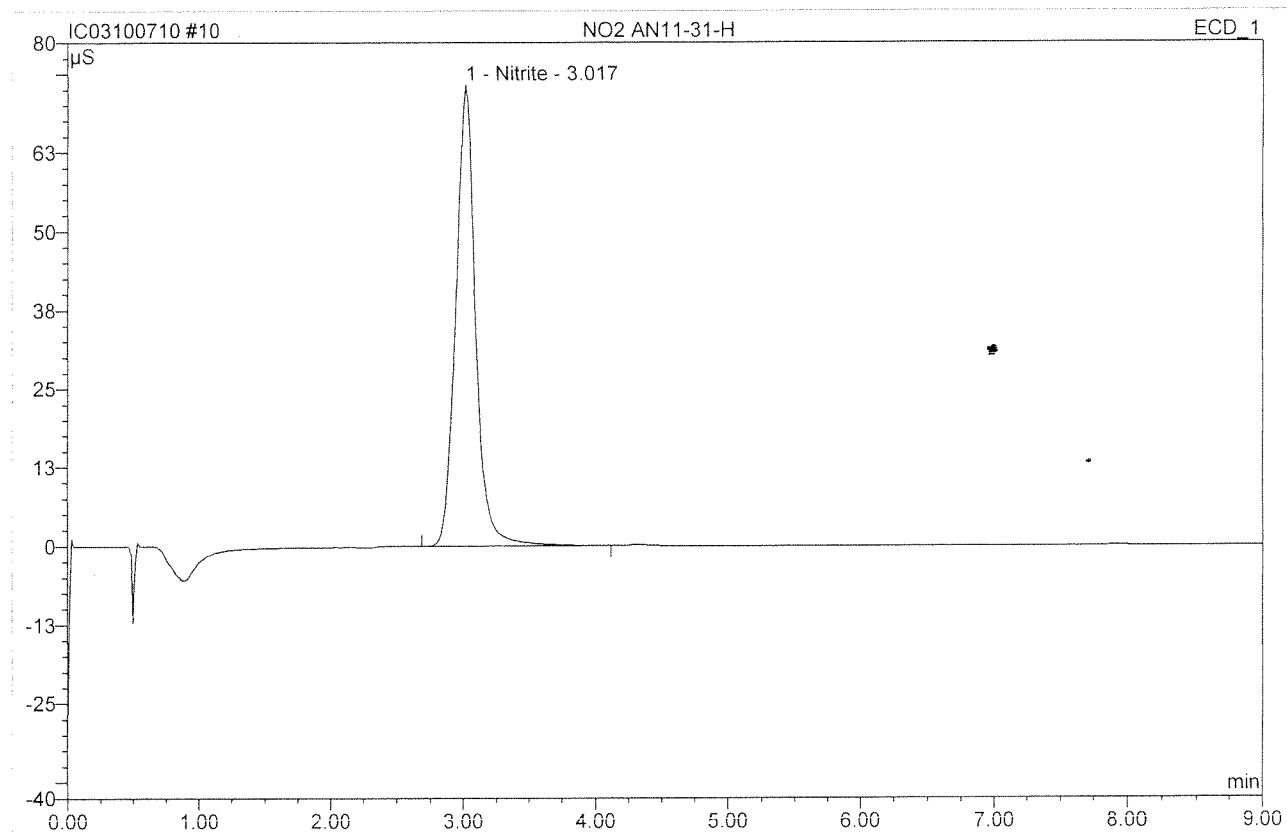
<b>11 MB</b>			
<b>MB</b>			
Sample Name:	<b>MB</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>11</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 9:16</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*nbakotich*

<b>10 NO2 AN11-31-H</b>			
<b>NO2</b>			
Sample Name:	NO2 AN11-31-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	10/7/2010 9:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



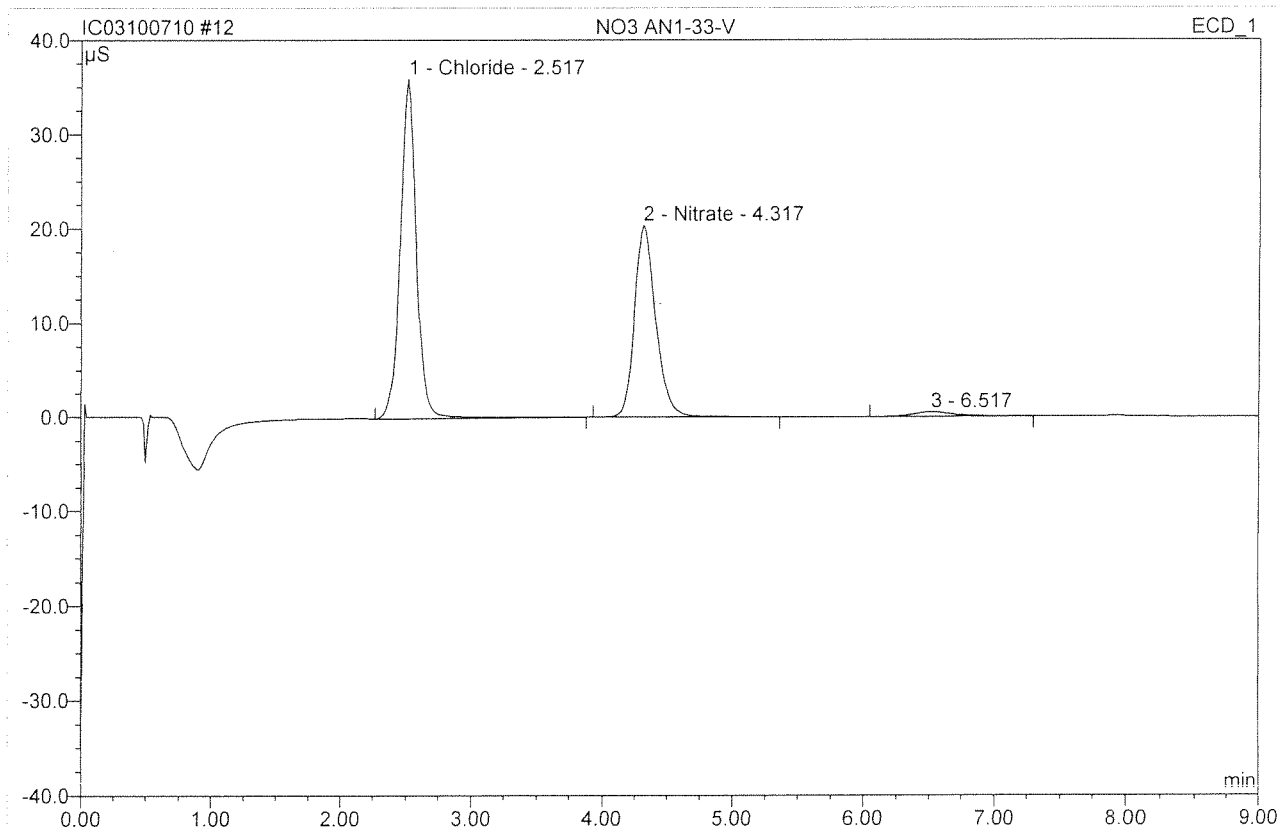
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.02	Nitrite	73.317	12.701	100.00	100 99.719	BMB
<b>Total:</b>			73.317	12.701	100.00	99.719	

*nbakotich*

## 12 NO3 AN1-33-V

### NO3

Sample Name:	NO3 AN1-33-V	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	10/7/2010 9:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



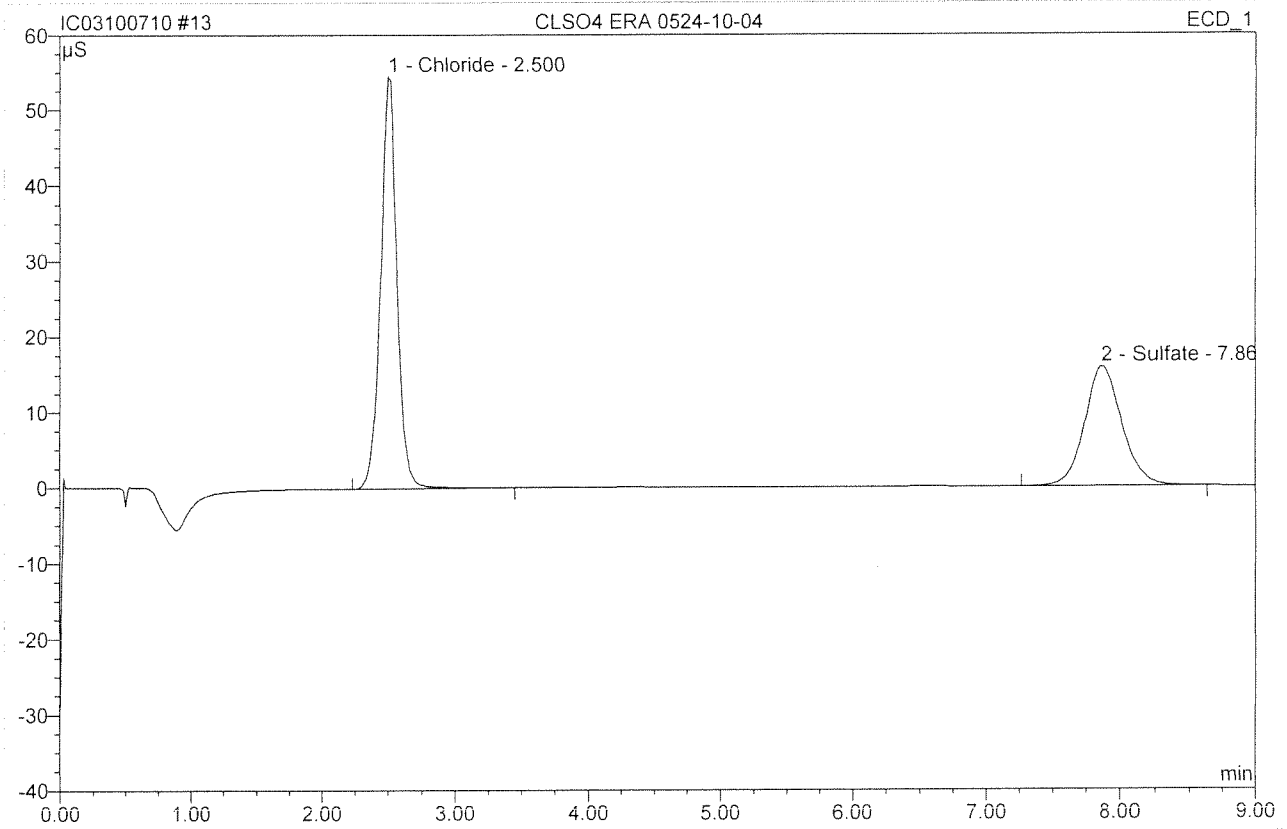
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	36.032	5.191	56.06	66.881	BMB
2	4.32	Nitrate	20.318	3.885	41.95	99 20.814	BMB
3	6.52	n.a.	0.473	0.184	1.99	n.a.	BMB
<b>Total:</b>			56.823	9.260	100.00	87.695	

*nbakotich*

### 13 CLSO4 ERA 0524-10-04

#### CLSO4

Sample Name:	CLSO4 ERA 0524-10-04	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 9:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

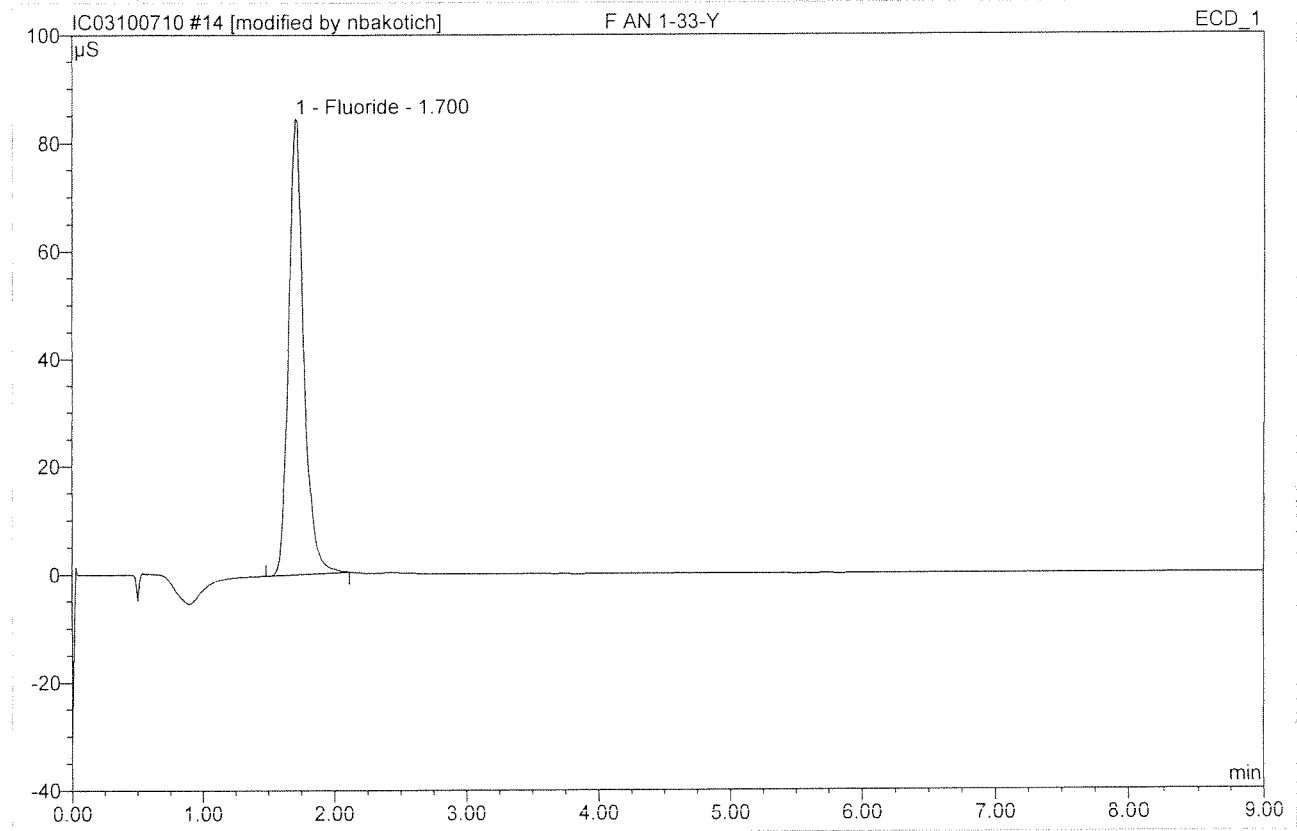


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	54.671	7.751	60.28	100 4.993	BMB
2	7.87	Sulfate	15.908	5.108	39.72	103 5.137	BMB
<b>Total:</b>			70.579	12.860	100.00	10.131	

*Handwritten signature*



<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.501	11.152	100.00	10x 11.942	BMB*
<b>Total:</b>			84.501	11.152	100.00	11.942	

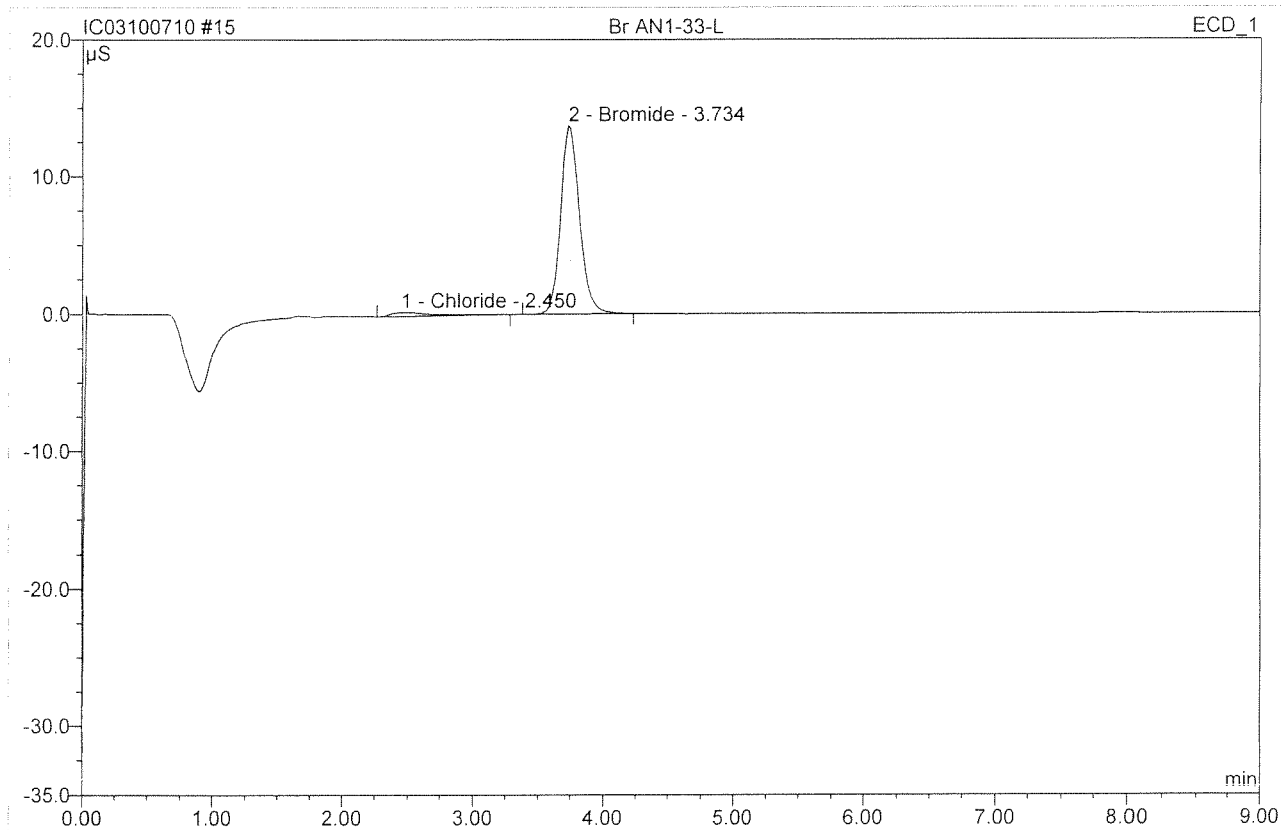
After Initials nb

OCT 08 2010

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other \_\_\_\_\_

*K. Kojala*

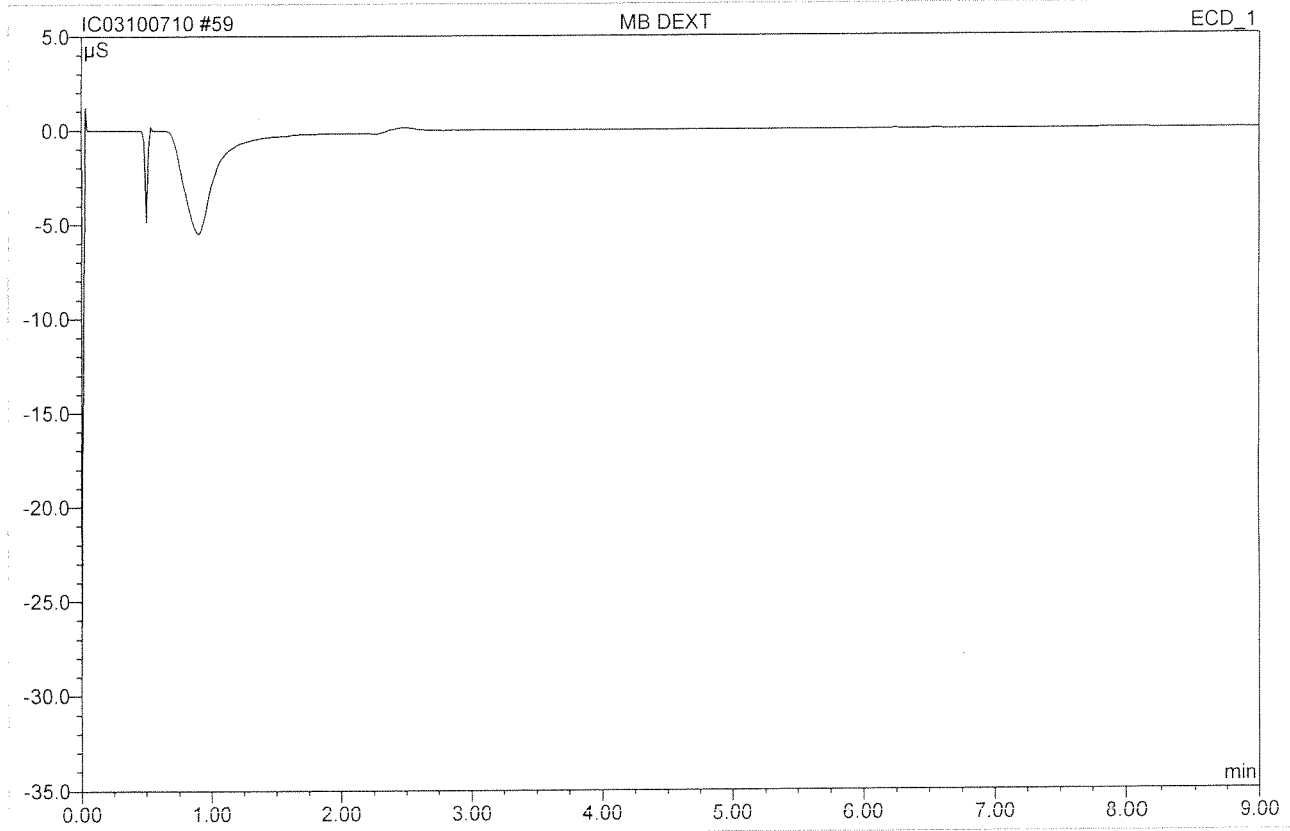
<b>15 Br AN1-33-L</b>			
<b>Br</b>			
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:02	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.45	Chloride	0.282	0.113	4.70	0.073	BMB
2	3.73	Bromide	13.667	2.294	95.30	108 4.329	BMB
<b>Total:</b>			13.949	2.407	100.00	4.402	

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59 MB DEXT			
Sample Name:	MB DEXT	Injection Volume:	200.0
Vial Number:	58	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 18:58	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

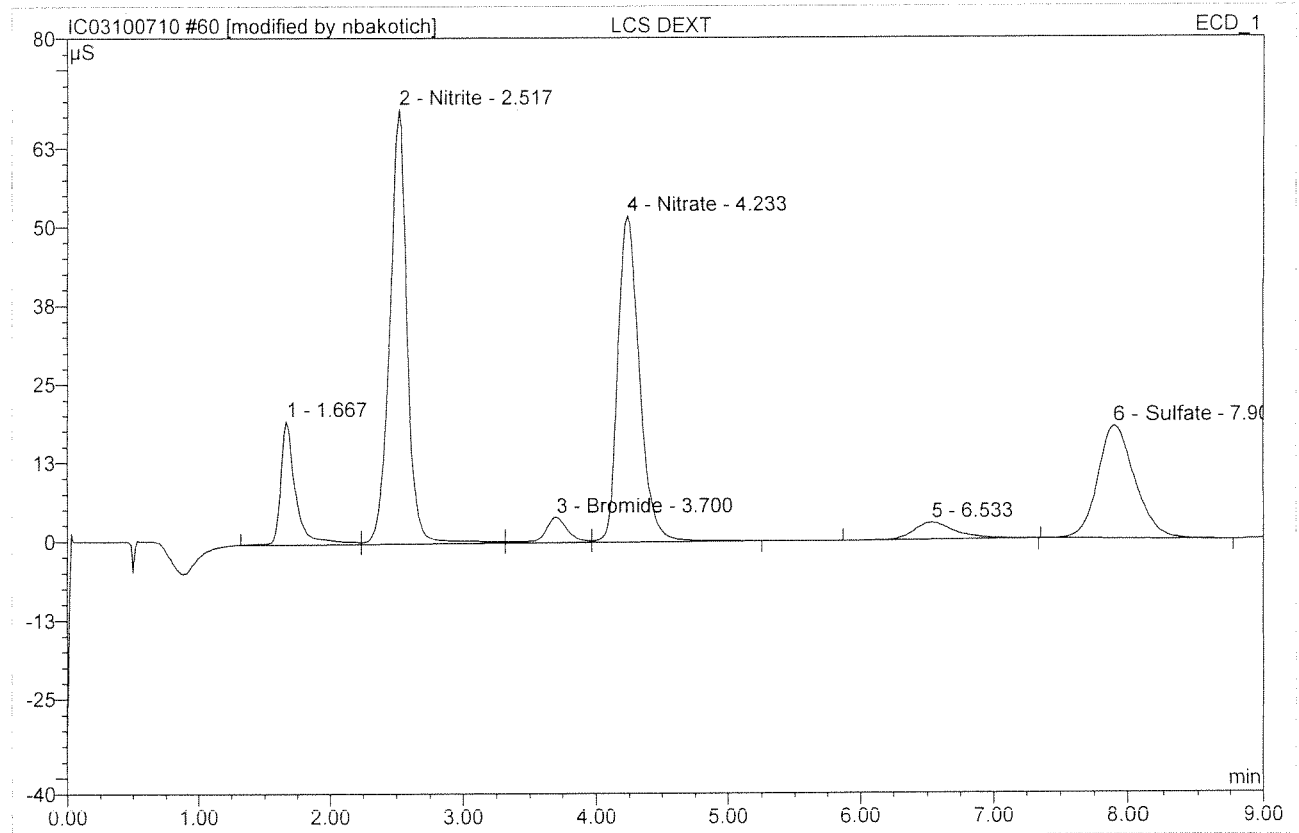


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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60 LCS DEXT			
Sample Name:	LCS DEXT	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	10/7/2010 19:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	n.a.	19.639	2.621	8.68	n.a.	BM
2	2.52	Nitrite	69.066	10.435	34.54	32.768	M
3	3.70	Bromide	4.010	0.774	2.56	14.605	M
4	4.23	Nitrate	51.856	9.755	32.29	26.133	MB
5	6.53	n.a.	2.697	0.981	3.25	n.a.	BMB*
6	7.90	Sulfate	17.995	5.647	18.69	56.792	BMB*
<b>Total:</b>			165.262	30.213	100.00	130.299	

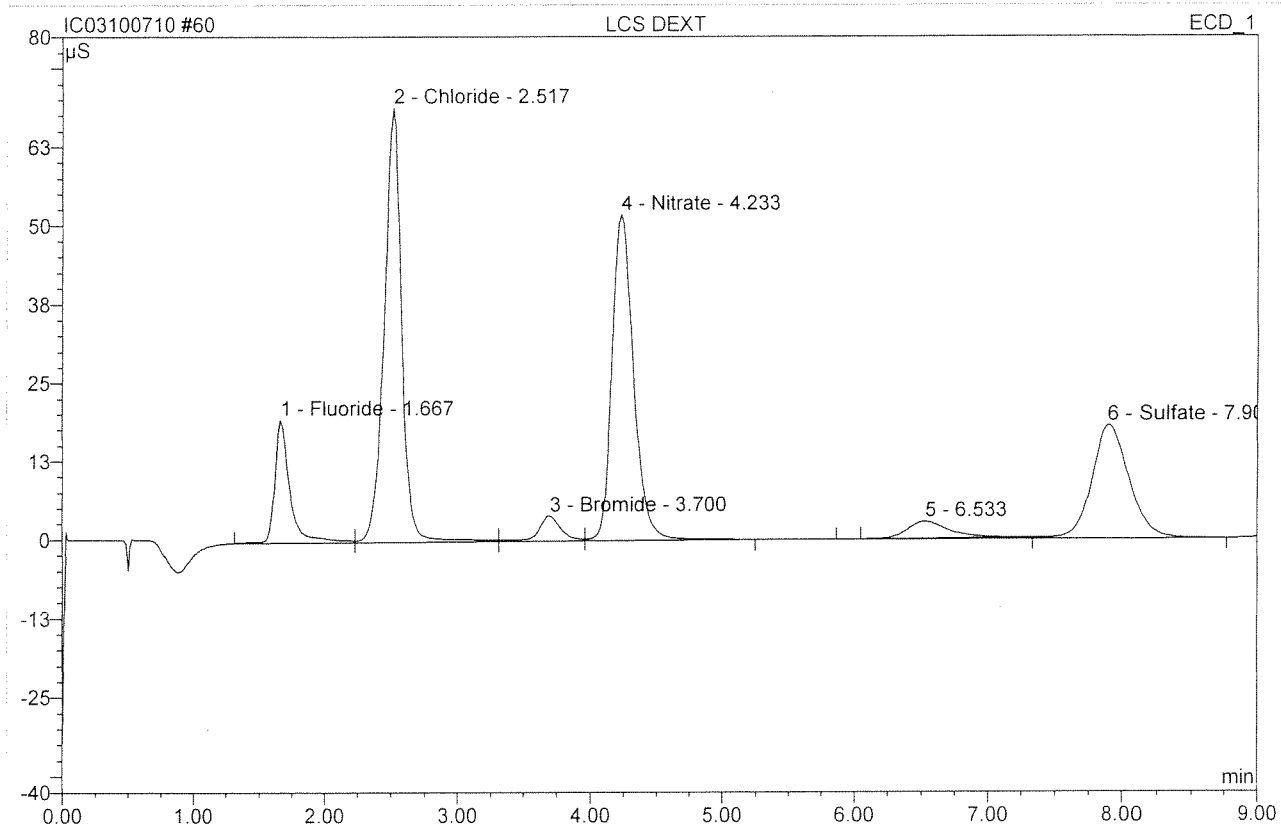
After Initials nb

OCT 08 2010

default/Integration  Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other \_\_\_\_\_

### 60 LCS DEXT

Sample Name:	<b>LCS DEXT</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>59</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>10.0000</b>
Recording Time:	<b>10/7/2010 19:09</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



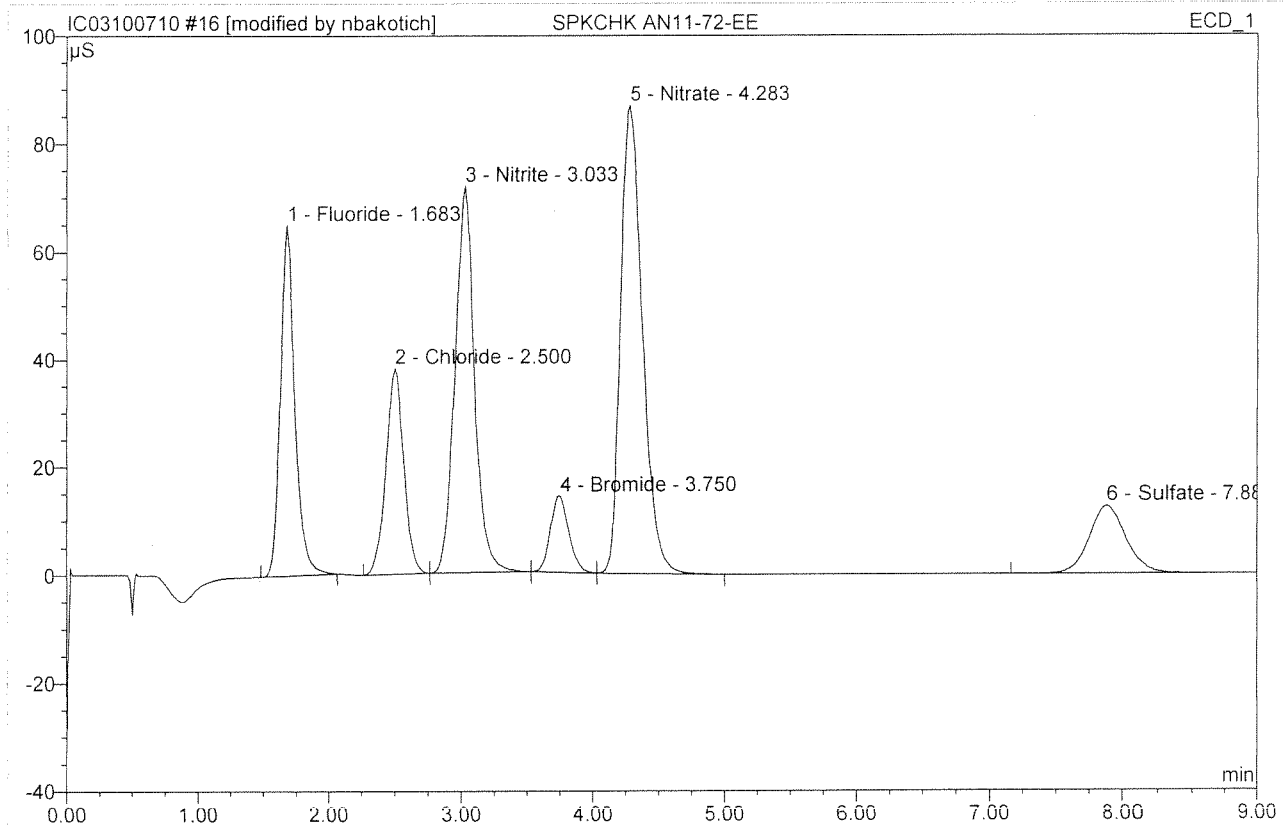
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.67	Fluoride	19.639	2.621	8.60	14.033	BM
2	2.52	Chloride	69.066	10.435	34.23	67.220	M
3	3.70	Bromide	4.010	0.774	2.54	14.605	M
4	4.23	Nitrate	51.856	9.755	32.01	26.133	MB
5	6.53	n.a.	2.706	0.992	3.25	n.a.	Ru
6	7.90	Sulfate	18.106	5.902	19.37	59.361	BMB
<b>Total:</b>			165.383	30.479	100.00	181.353	

OCT 08 2010

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### 16 SPKCHK AN11-72-EE

Sample Name:	<b>SPKCHK AN11-72-EE</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>15</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 10:13</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>

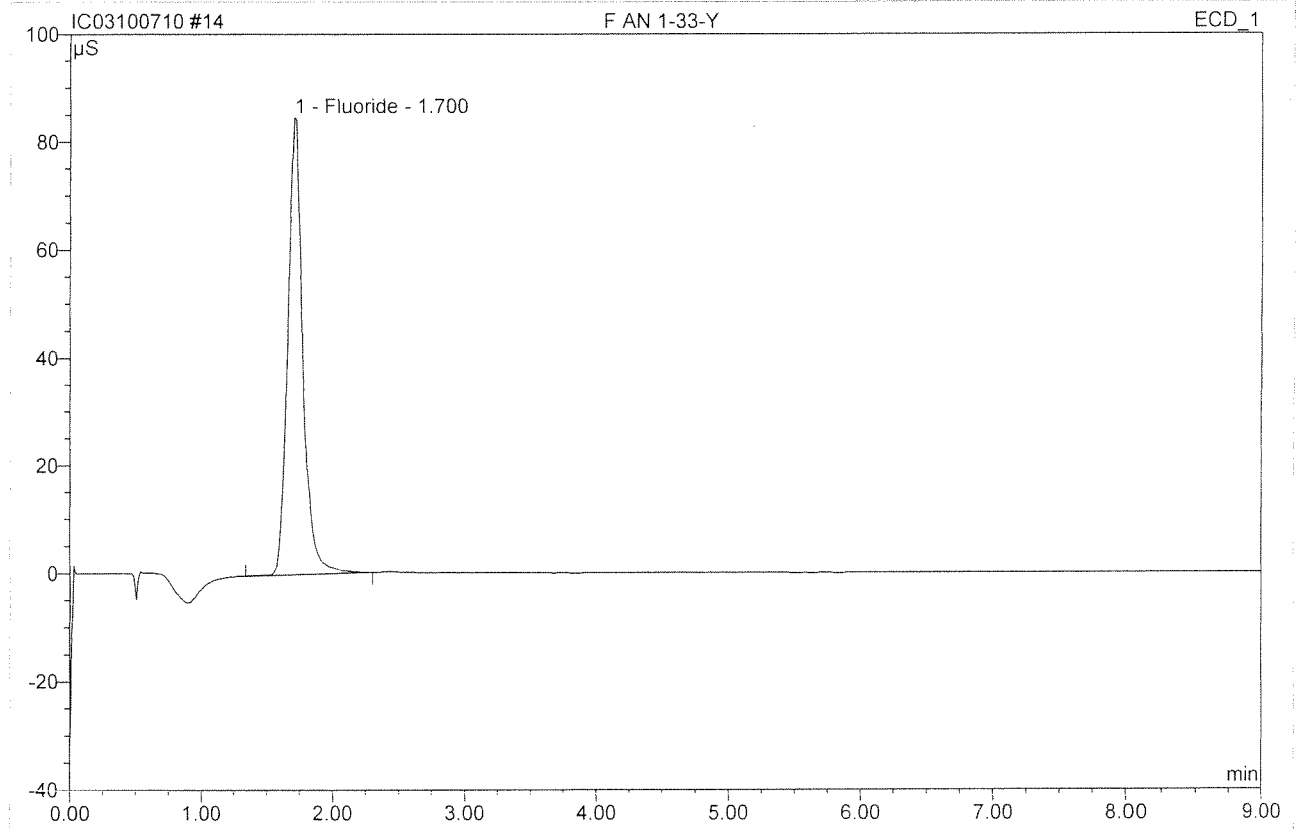


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	65.048	8.303	16.74	4.446	BMB*
2	2.50	Chloride	38.143	5.973	12.05	3.848	BMb
3	3.03	Nitrite	71.734	12.281	24.77	3.857	bMb
4	3.75	Bromide	14.080	2.276	4.59	4.295	bMb
5	4.28	Nitrate	86.674	16.720	33.72	4.479	bMB
6	7.88	Sulfate	12.574	4.036	8.14	4.059	BMB
<b>Total:</b>			288.252	49.590	100.00	24.984	

TV=4.0

*K. W. Sko*

<b>14 F AN 1-33-Y</b>			
<b>F</b>			
Sample Name:	F AN 1-33-Y	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 9:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

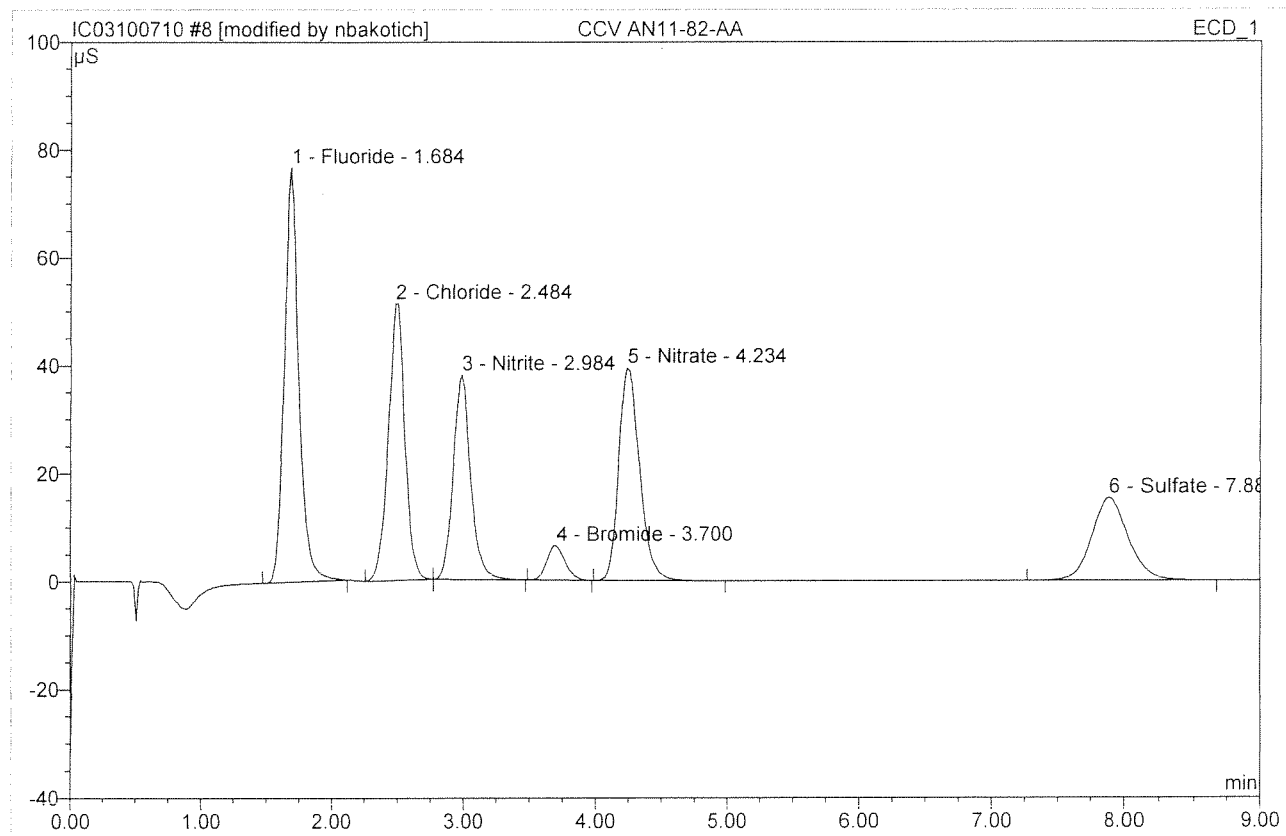


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	84.688	11.346	100.00	12.149	BMB
<b>Total:</b>			84.688	11.346	100.00	12.149	

**Before**

**OCT 0 8 2010**

<b>8 CCV AN11-82-AA</b>			
Sample Name:	CCV AN11-82-AA	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.763	9.863	27.20	100 5.281	BMB*
2	2.48	Chloride	51.241	7.454	20.56	96 4.802	BMB*
3	2.98	Nitrite	37.906	5.829	16.08	92 1.831	bMB
4	3.70	Bromide	6.369	1.024	2.82	97 1.933	BMB
5	4.23	Nitrate	39.419	7.225	19.92	97 1.935	BMB
6	7.88	Sulfate	15.376	4.866	13.42	98 4.893	BMB
<b>Total:</b>			227.074	36.260	100.00	20.674	

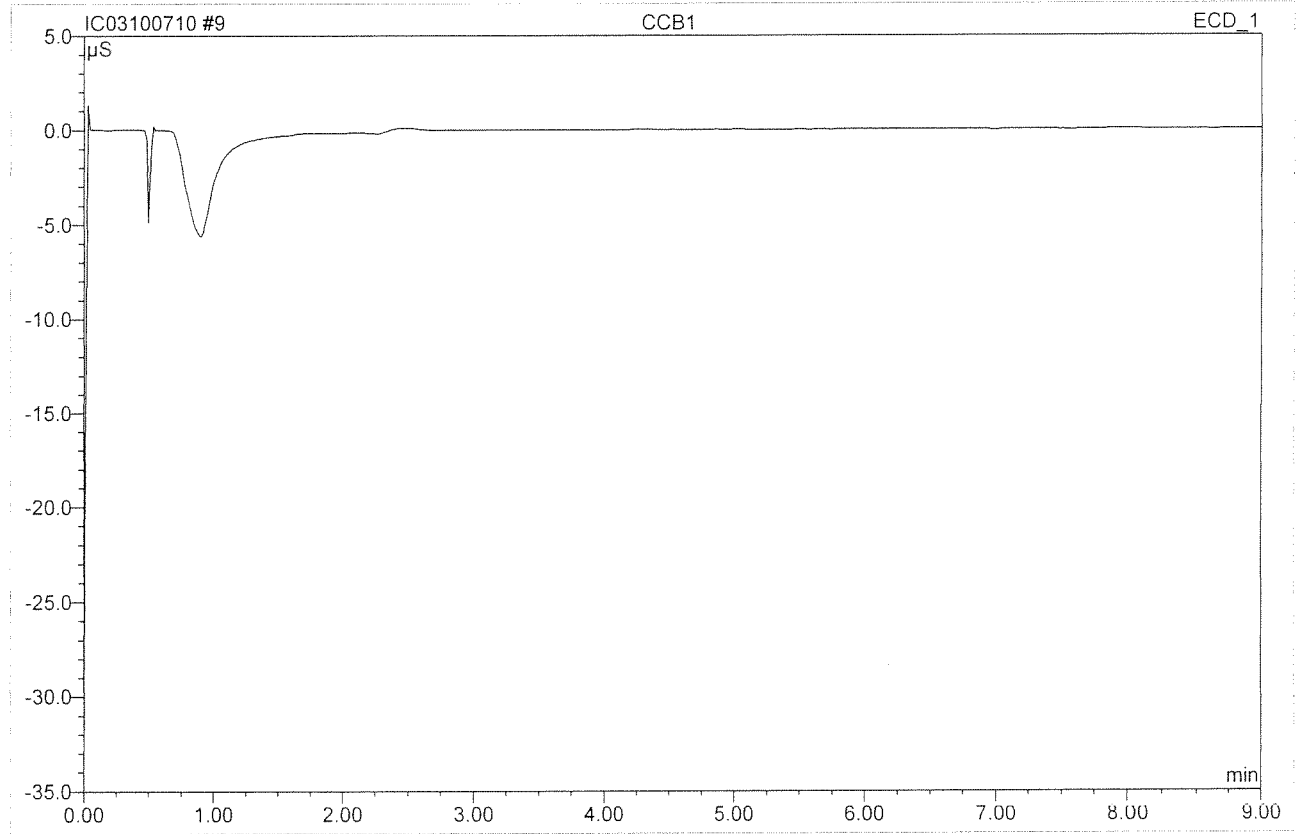
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OCT 07 2010

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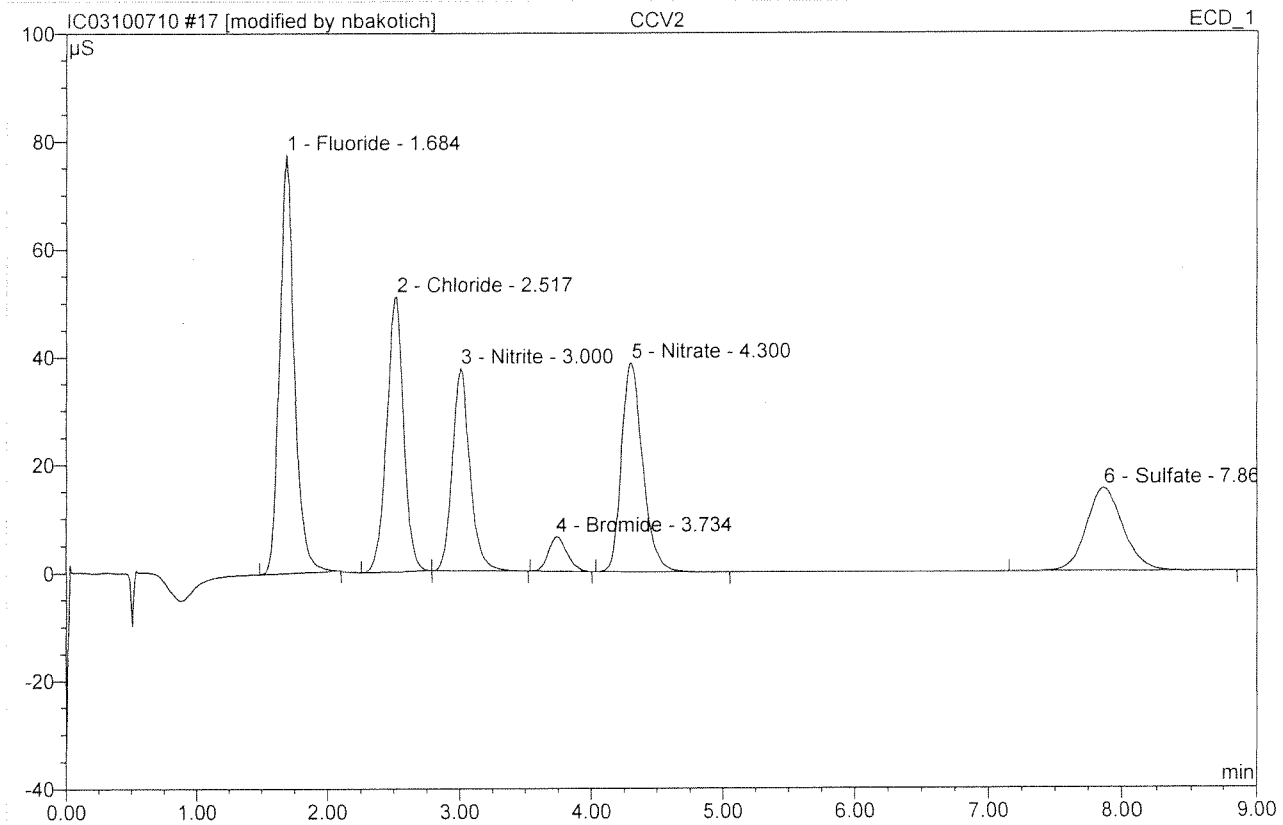
<b>9 CCB1</b>			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



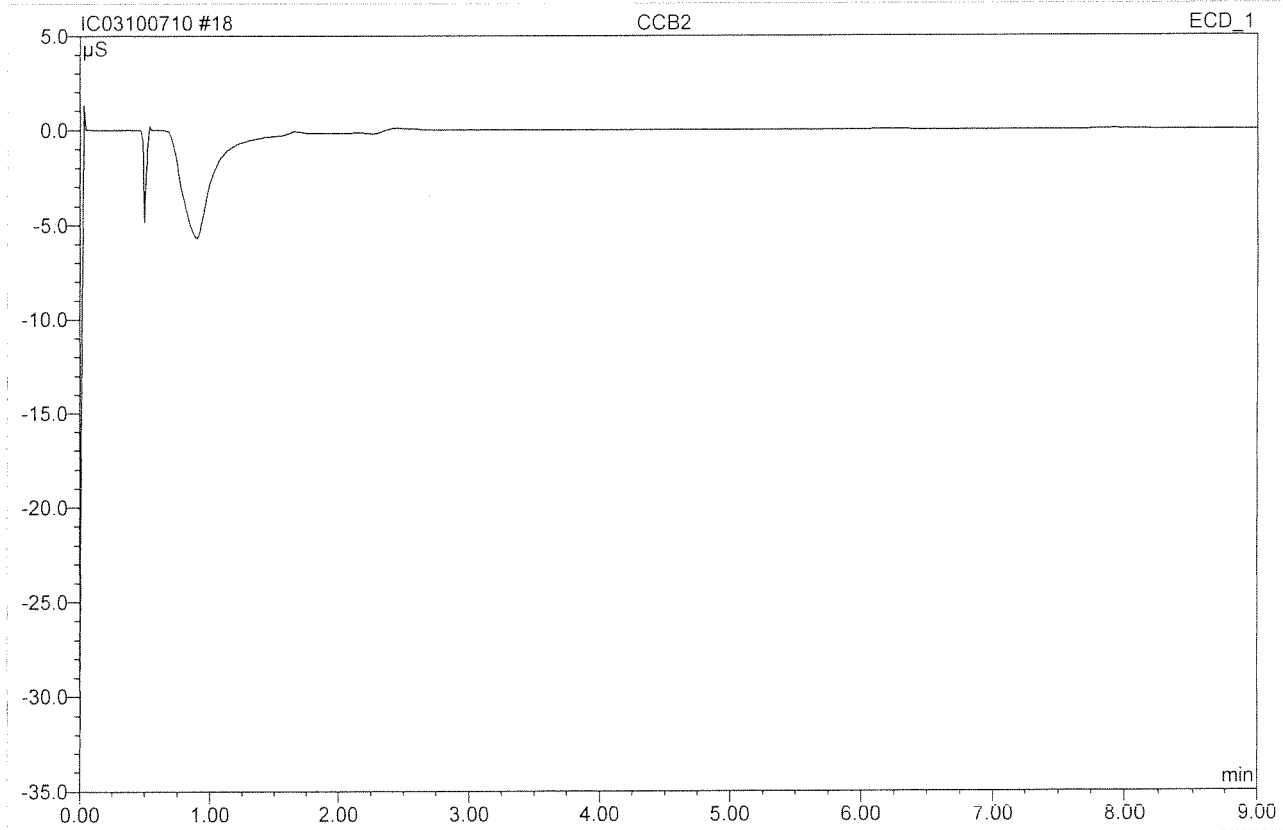
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.628	10.111	27.54	108 5.413	BMB*
2	2.52	Chloride	50.996	7.527	20.50	97 4.849	BMB*
3	3.00	Nitrite	37.589	5.845	15.92	97 1.836	bMB*
4	3.73	Bromide	6.357	1.035	2.82	98 1.954	BMB*
5	4.30	Nitrate	38.664	7.277	19.82	98 1.949	BMB*
6	7.87	Sulfate	15.414	4.914	13.39	99 4.942	BMB
<b>Total:</b>			226.648	36.709	100.00	20.943	

Alt. Initials: *nb*

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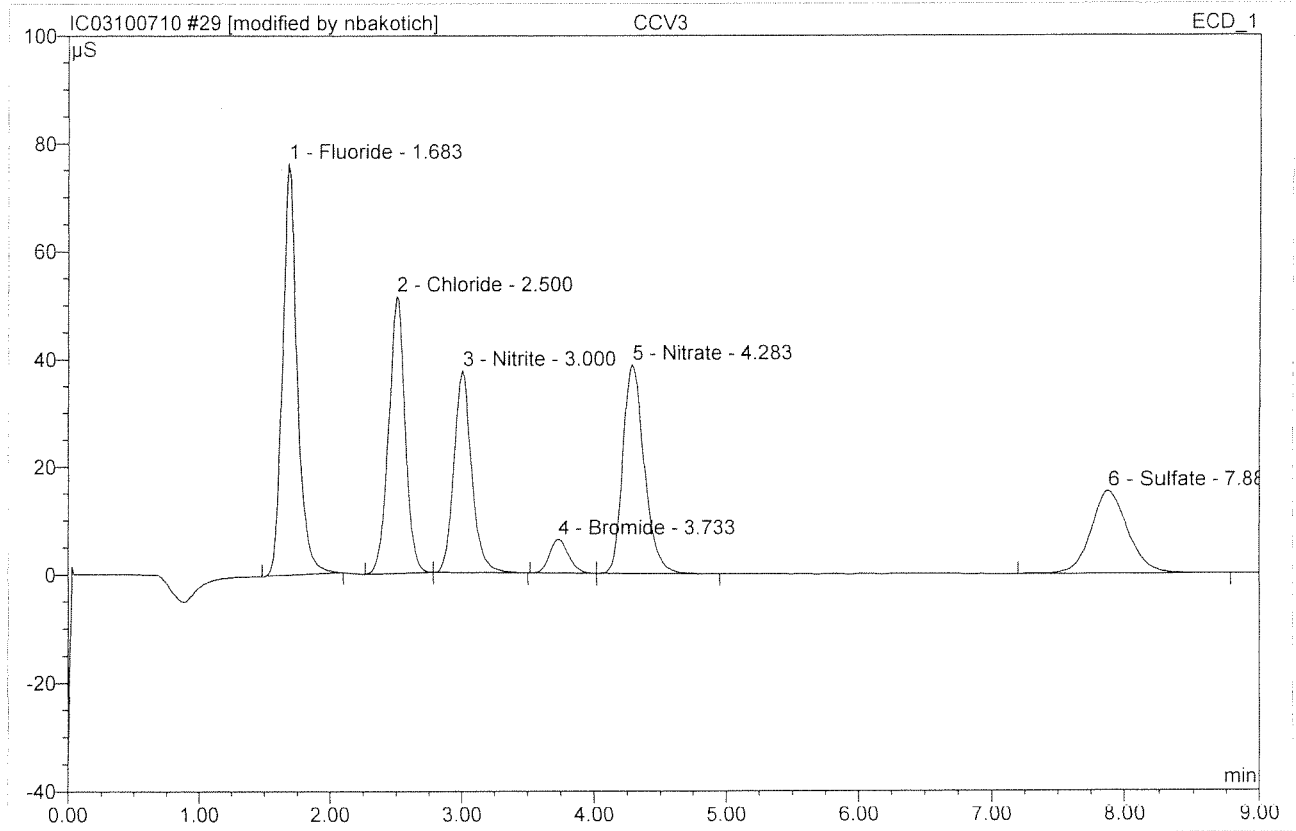
<b>18 CCB2</b>			
<b>CCB2</b>			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 10:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

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<b>29 CCV3</b>			
<b>CCV3</b>			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.419	9.982	27.34	107 5.344	BMB*
2	2.50	Chloride	51.416	7.466	20.45	96 4.810	BMb*
3	3.00	Nitrite	37.524	5.863	16.06	92 1.841	bMB
4	3.73	Bromide	6.356	1.034	2.83	98 1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.98	98 1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.34	98 4.899	BMB
<b>Total:</b>			225.938	36.512	100.00	20.801	

After Initials nb

OCT 08 2010

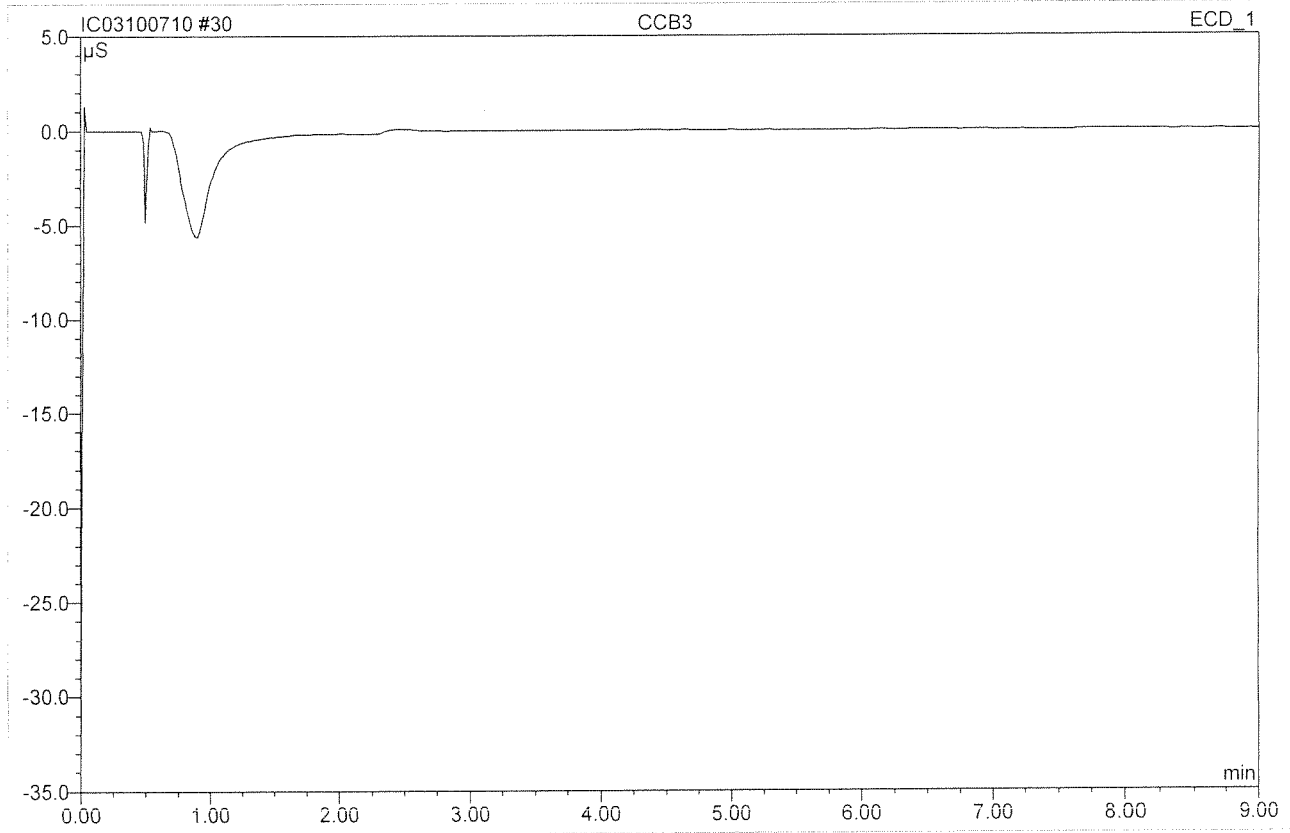
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default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

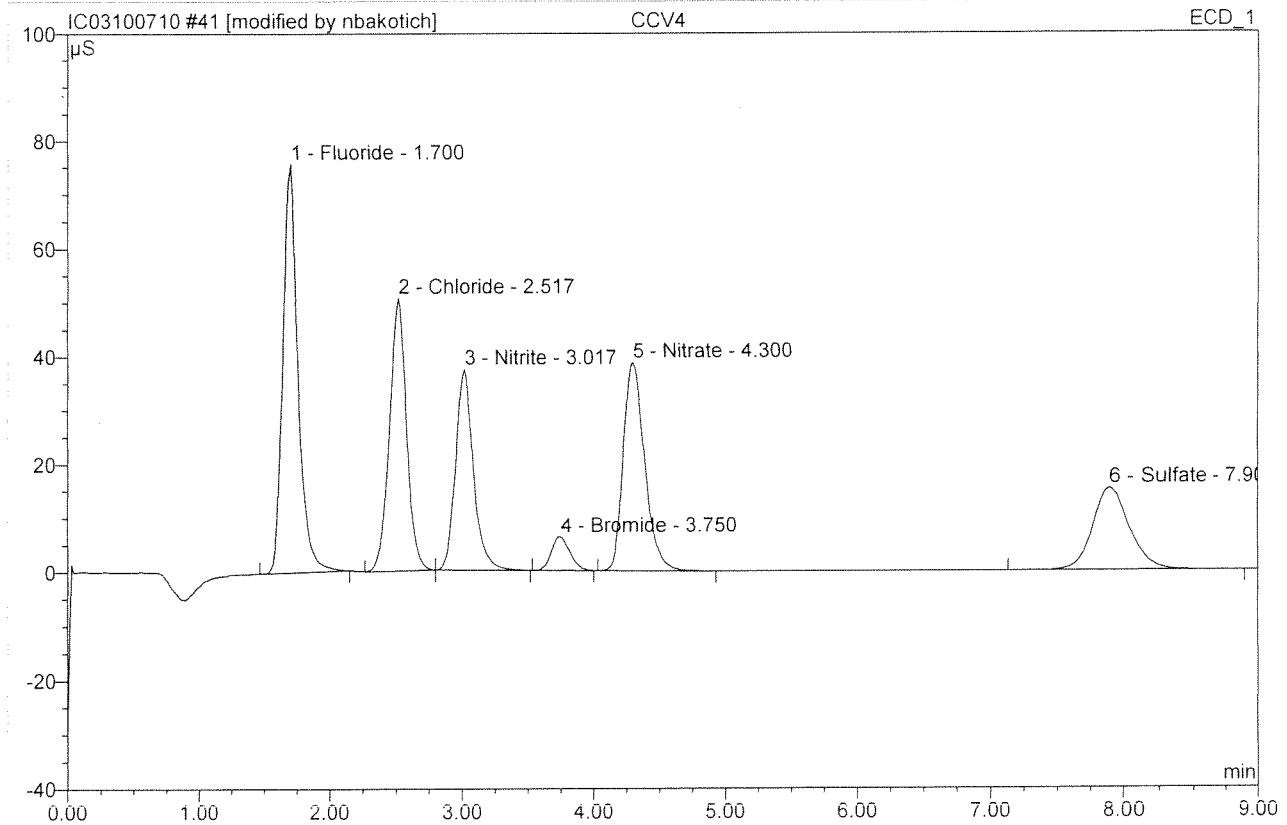
<b>30 CCB3</b>			
<b>CCB3</b>			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 12:54	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>41 CCV4</b>			
<b>CCV4</b>			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



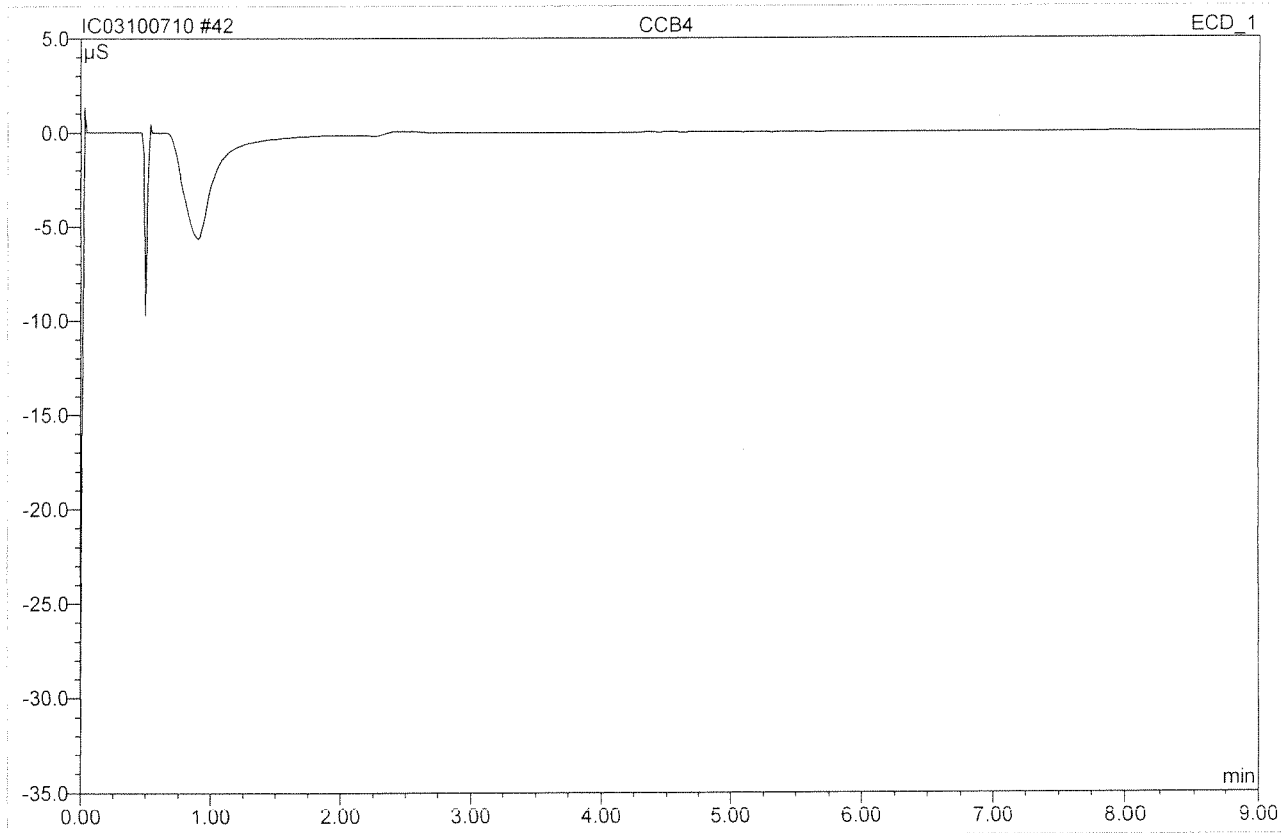
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.848	10.019	27.42	107 5.364	BMB*
2	2.52	Chloride	50.578	7.486	20.49	96 4.822	BMb*
3	3.02	Nitrite	37.308	5.838	15.98	93 1.833	bMB
4	3.75	Bromide	6.309	1.022	2.80	97 1.928	BMB*
5	4.30	Nitrate	38.747	7.284	19.94	98 1.951	BMB*
6	7.90	Sulfate	15.332	4.886	13.37	92 4.914	BMB
<b>Total:</b>			224.123	36.534	100.00	20.813	

After Initials nb

OCT 08 2010

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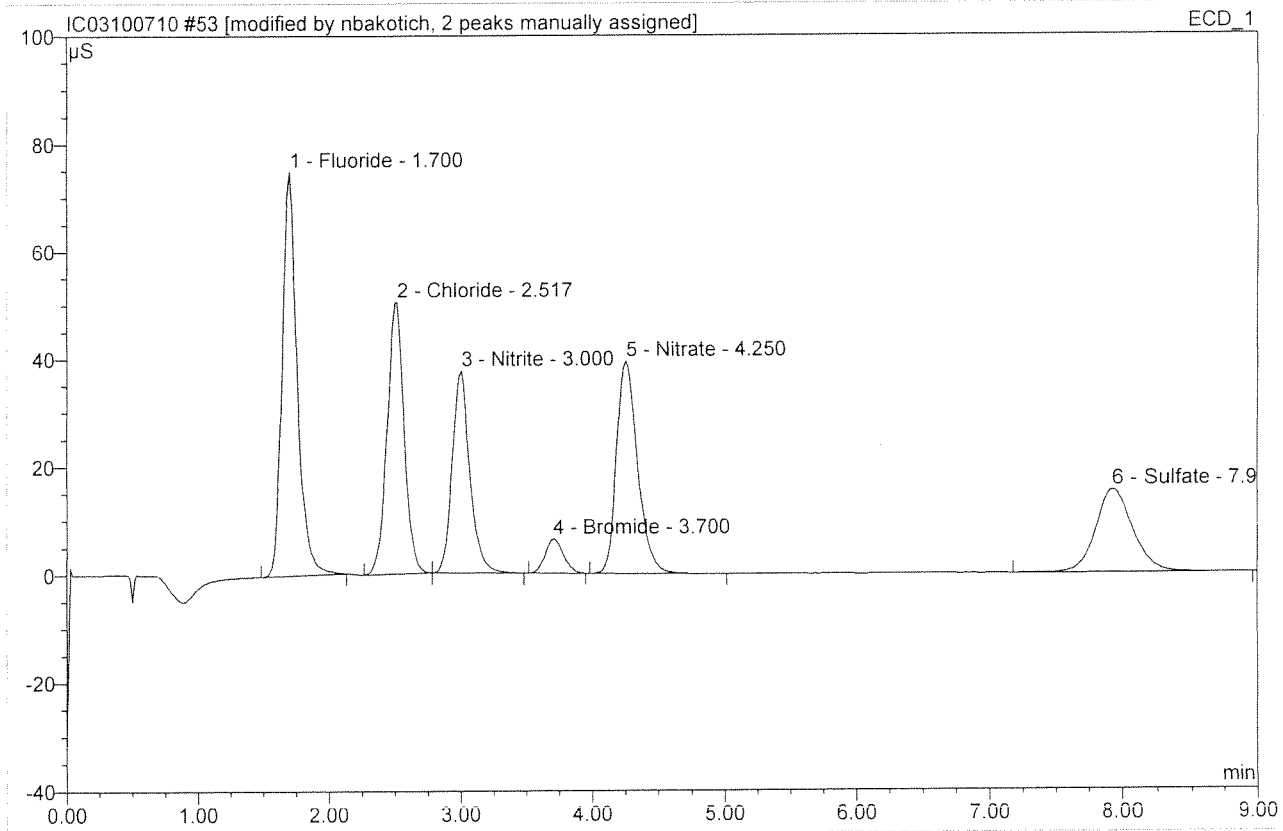
<b>42 CCB4</b>			
<b>CCB4</b>			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*K. Kofe*

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.967	9.911	27.33	106 5.306	BMB**
2	2.52	Chloride	50.316	7.442	20.52	96 4.794	BMB**
3	3.00	Nitrite	37.435	5.786	15.95	91 1.817	bMB*
4	3.70	Bromide	6.333	1.015	2.80	96 1.915	BMB*
5	4.25	Nitrate	39.296	7.237	19.95	91 1.939	BMB*
6	7.93	Sulfate	15.422	4.879	13.45	98 4.906	BMB
<b>Total:</b>			223.770	36.269	100.00	20.677	

After Initials nb

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OCT 08 2010

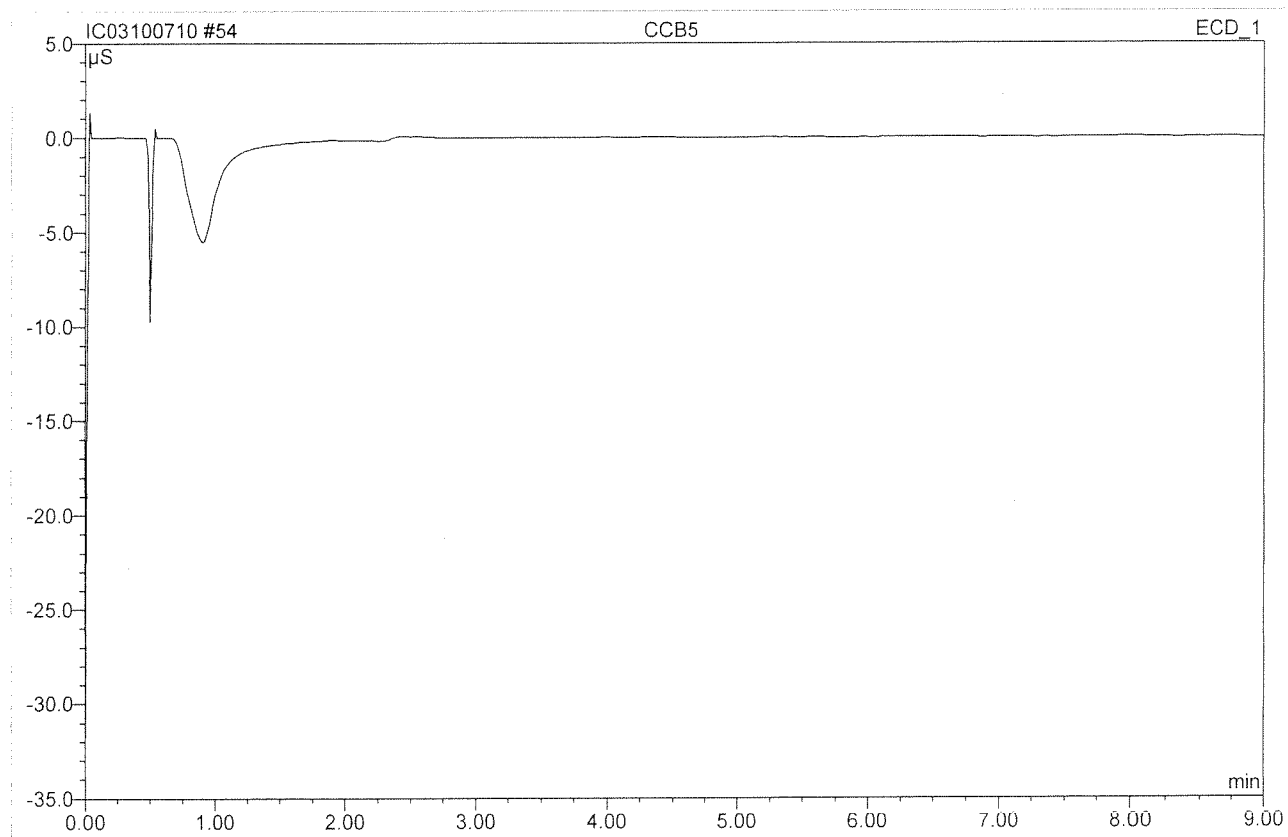
Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

default/Integration

Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other



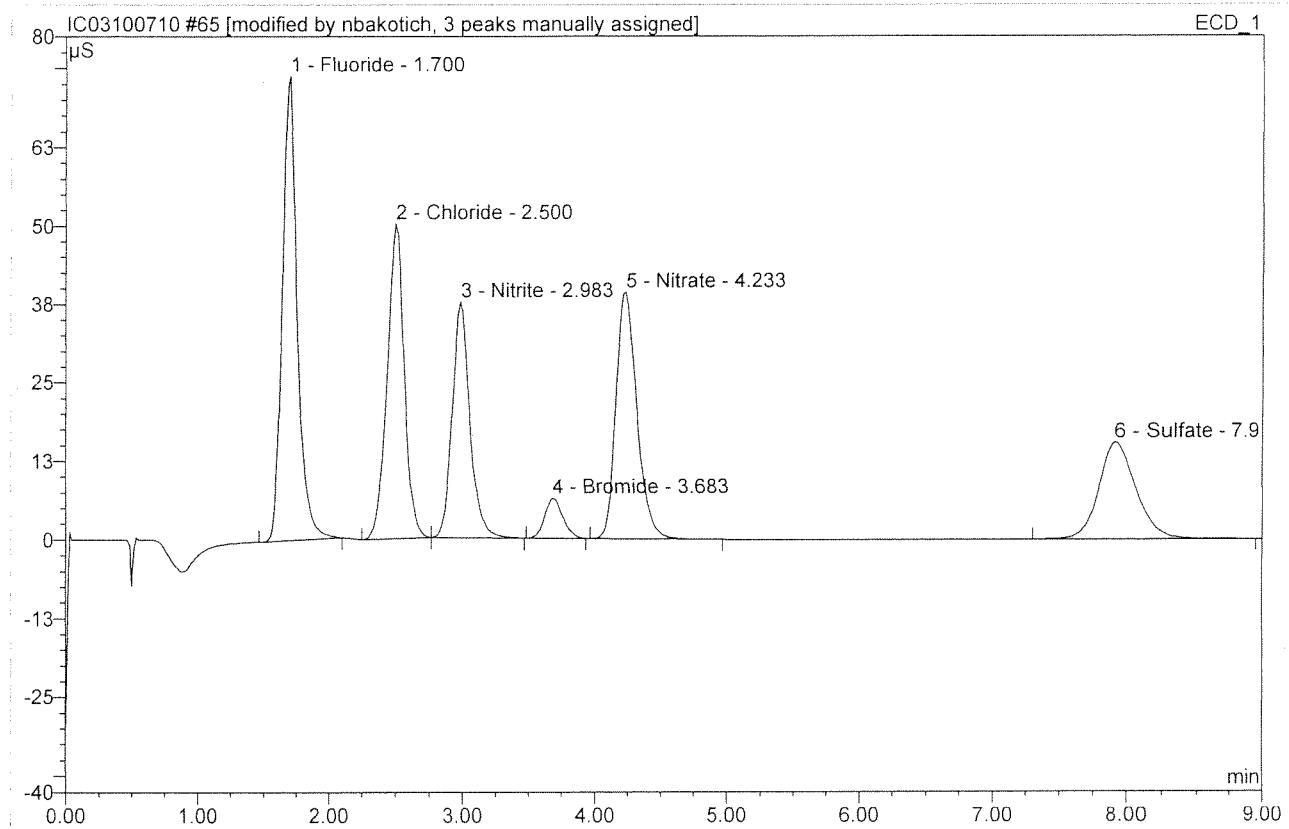
<b>54 CCB5</b>			
<b>CCB5</b>			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 18:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

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<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.855	9.776	27.11	105 5.234	BMB*^
2	2.50	Chloride	50.090	7.401	20.52	95 4.768	BMB*^
3	2.98	Nitrite	37.466	5.758	15.97	91 1.808	bMB*^
4	3.68	Bromide	6.379	1.020	2.83	97 1.925	BMB*
5	4.23	Nitrate	39.241	7.242	20.08	97 1.940	BMB*
6	7.92	Sulfate	15.352	4.865	13.49	98 4.893	BMB
<b>Total:</b>			222.382	36.062	100.00	20.568	

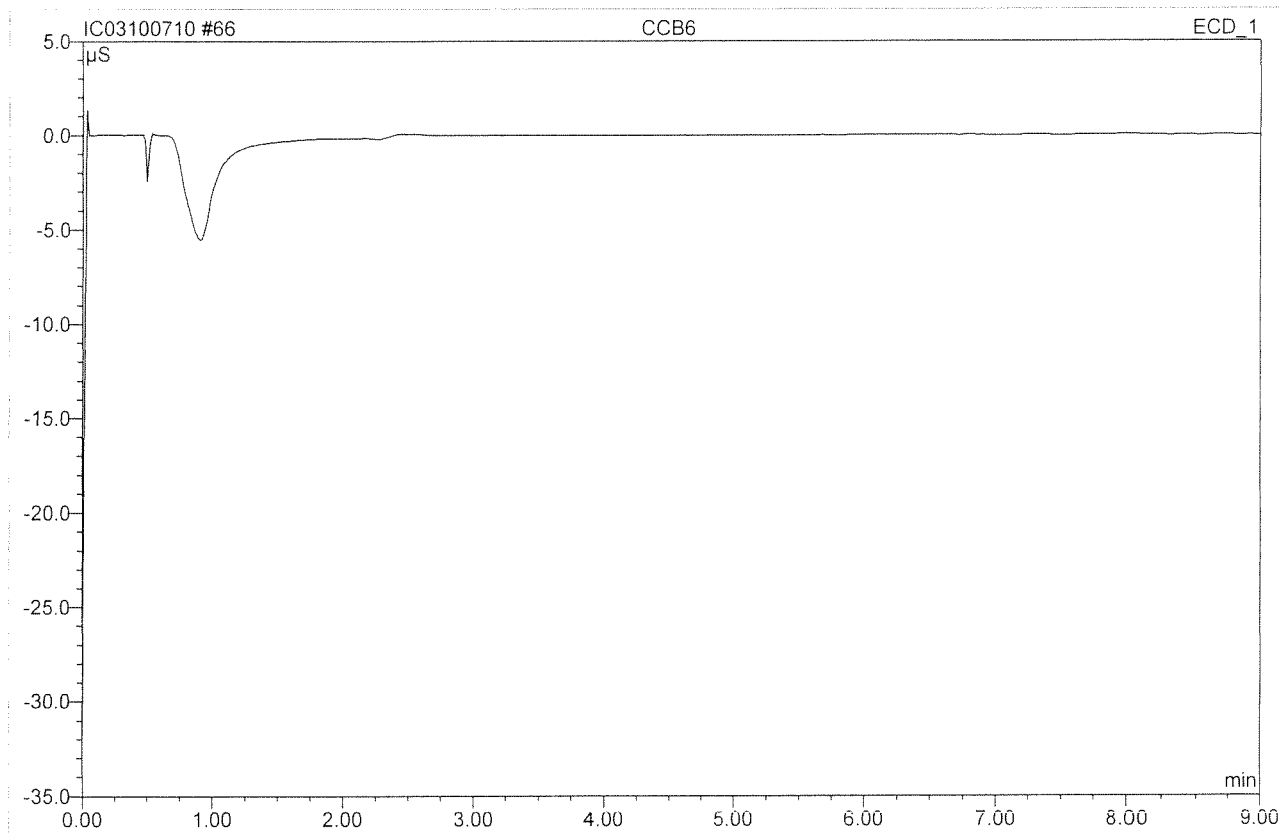
After Initials   n b  

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10/10/10

default/Integration  Wrong Peak/Peak not Found  
 Baseline/show...  
 Other...

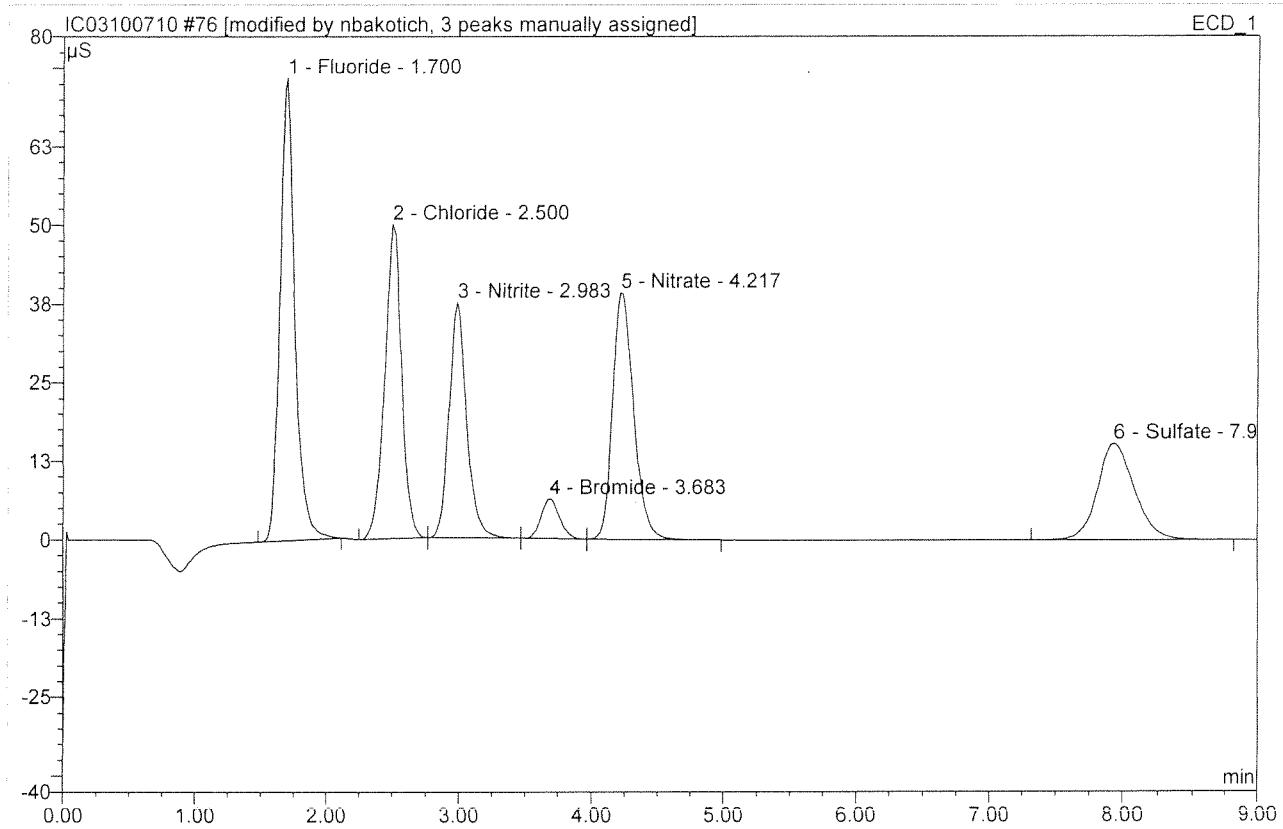
<b>66 CCB6</b>			
<b>CCB6</b>			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height $\mu$ S	Area $\mu$ S*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.579	9.754	27.10	5.223	BMB*^
2	2.50	Chloride	49.968	7.366	20.46	4.745	BMb*^
3	2.98	Nitrite	37.379	5.775	16.04	1.814	bMb^
4	3.68	Bromide	6.423	1.025	2.85	1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.11	1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.44	4.864	BMB
<b>Total:</b>			221.983	35.995	100.00	20.519	

After Initials nb

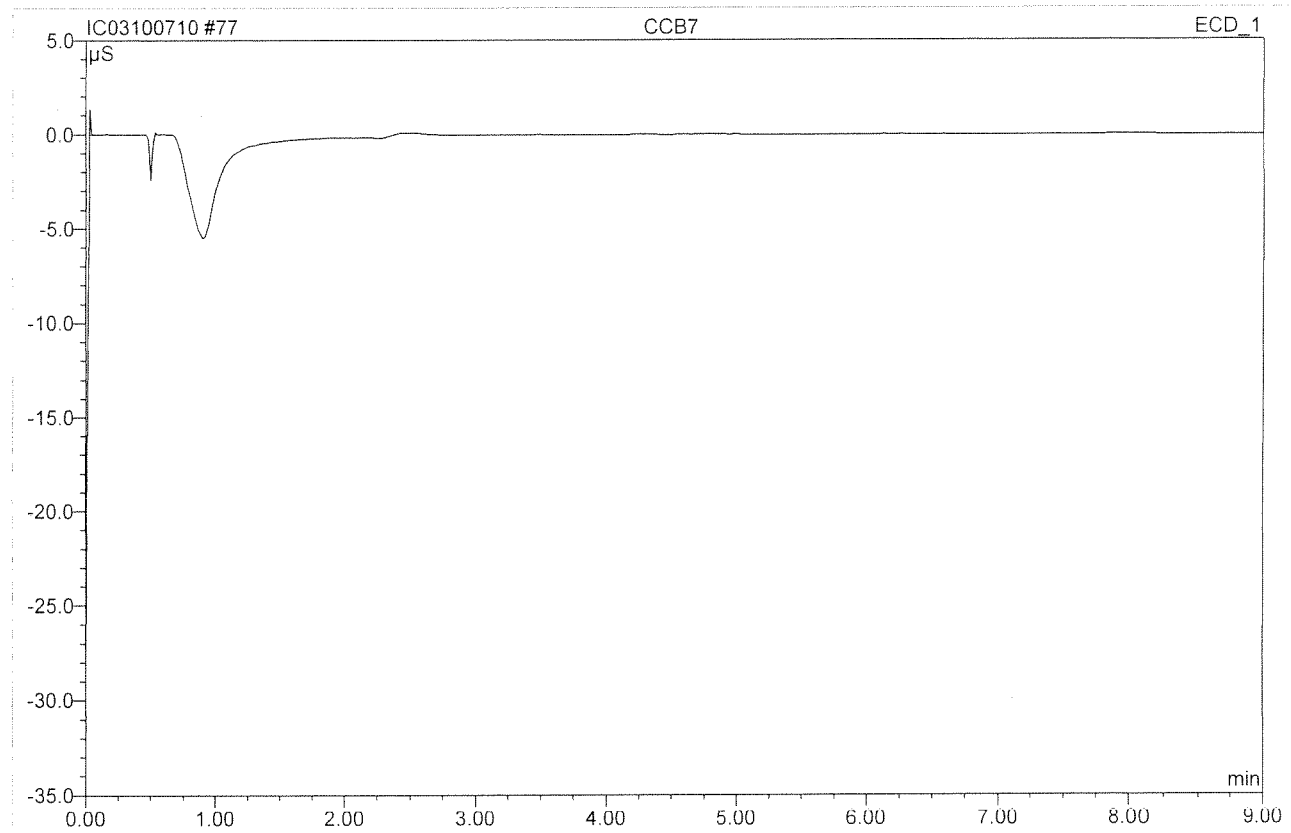
OCT 08 2010

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default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

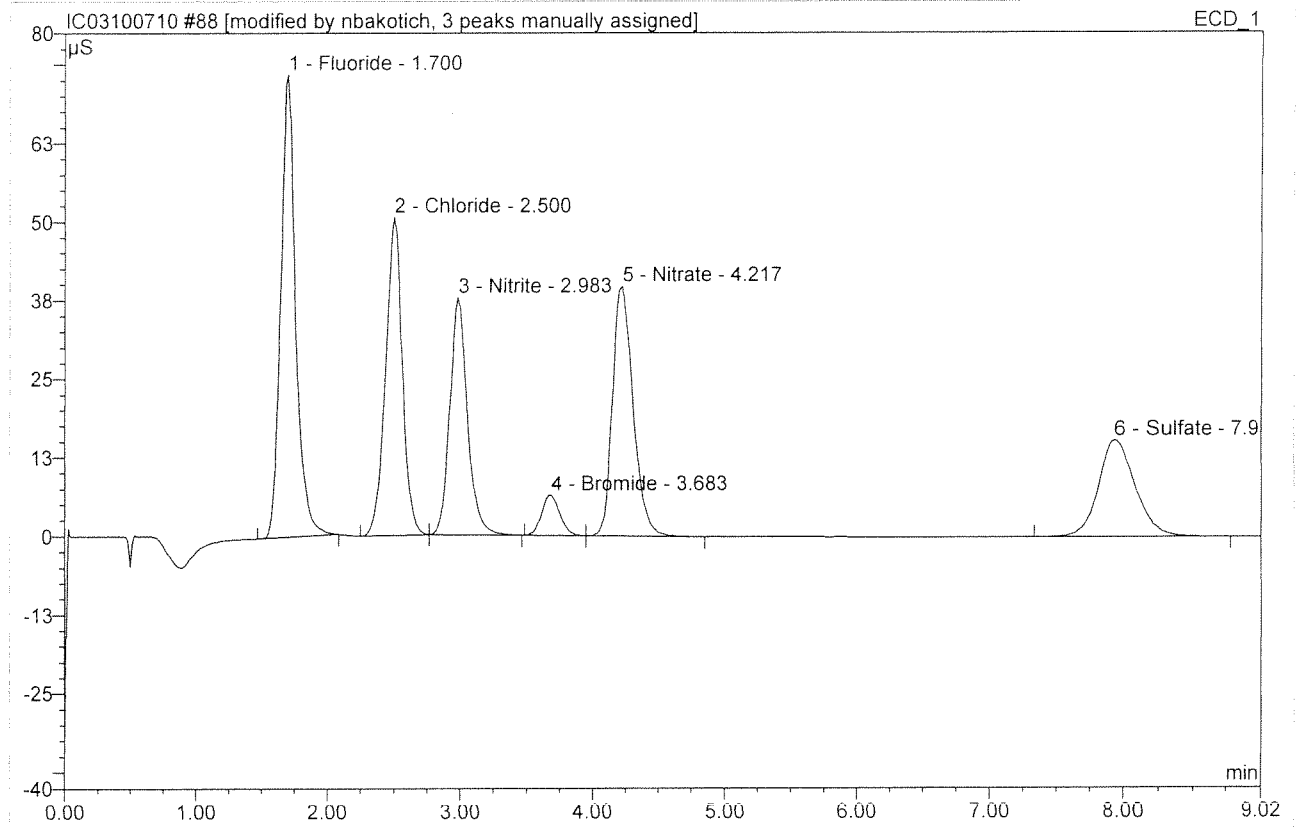
<b>77 CCB7</b>			
<b>CCB7</b>			
Sample Name:	<b>CCB7</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>76</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 22:24</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

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<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:30	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000



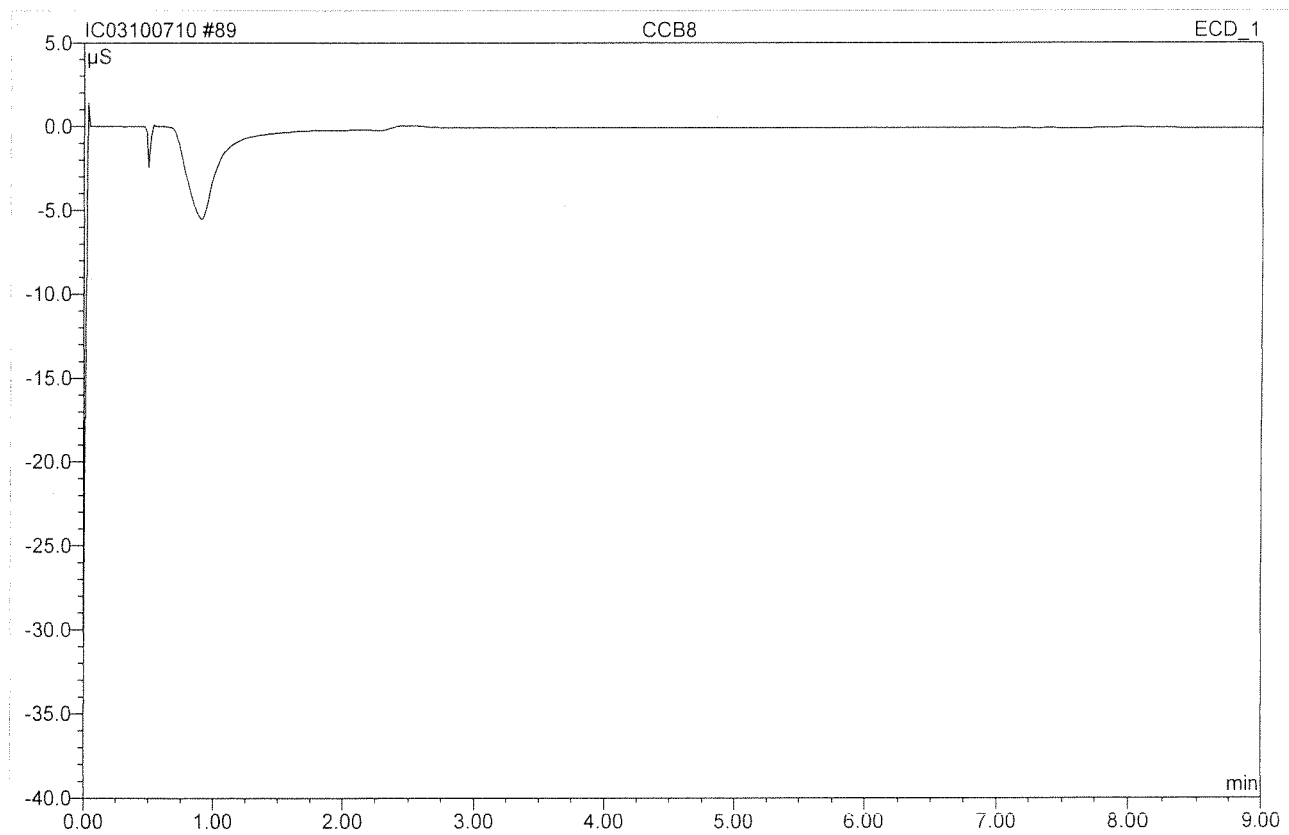
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.611	9.705	27.00	104 5.196	BMB*^
2	2.50	Chloride	50.630	7.413	20.62	96 4.775	BMB*^
3	2.98	Nitrite	37.654	5.782	16.08	91 1.816	bMB*^
4	3.68	Bromide	6.421	1.026	2.85	97 1.937	BMB*
5	4.22	Nitrate	39.711	7.178	19.97	96 1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.48	97 4.873	BMB
<b>Total:</b>			223.415	35.949	100.00	20.519	

After Initials nb

OCT 08 2010

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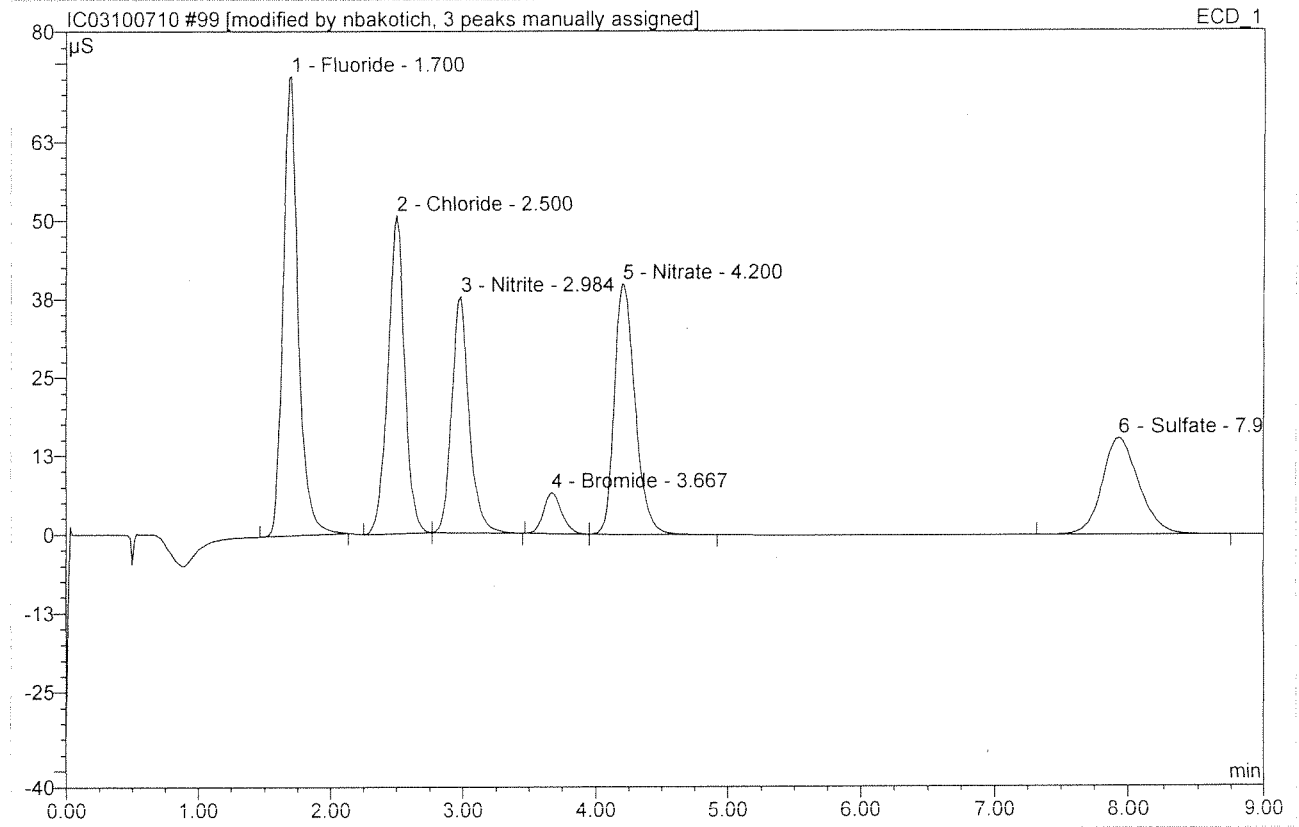
<b>89 CCB8</b>			
<b>CCB8</b>			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	88	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 0:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
<b>Total:</b>			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	73.136	9.724	27.05	104 5.206	BMB*^
2	2.50	Chloride	50.664	7.399	20.58	95 4.766	BMb*^
3	2.98	Nitrite	37.592	5.753	16.00	91 1.807	bMB^
4	3.67	Bromide	6.520	1.032	2.87	98 1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.16	97 1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.33	96 4.819	BMB
<b>Total:</b>			223.162	35.944	100.00	20.486	

After initials AB

OCT 08 2010

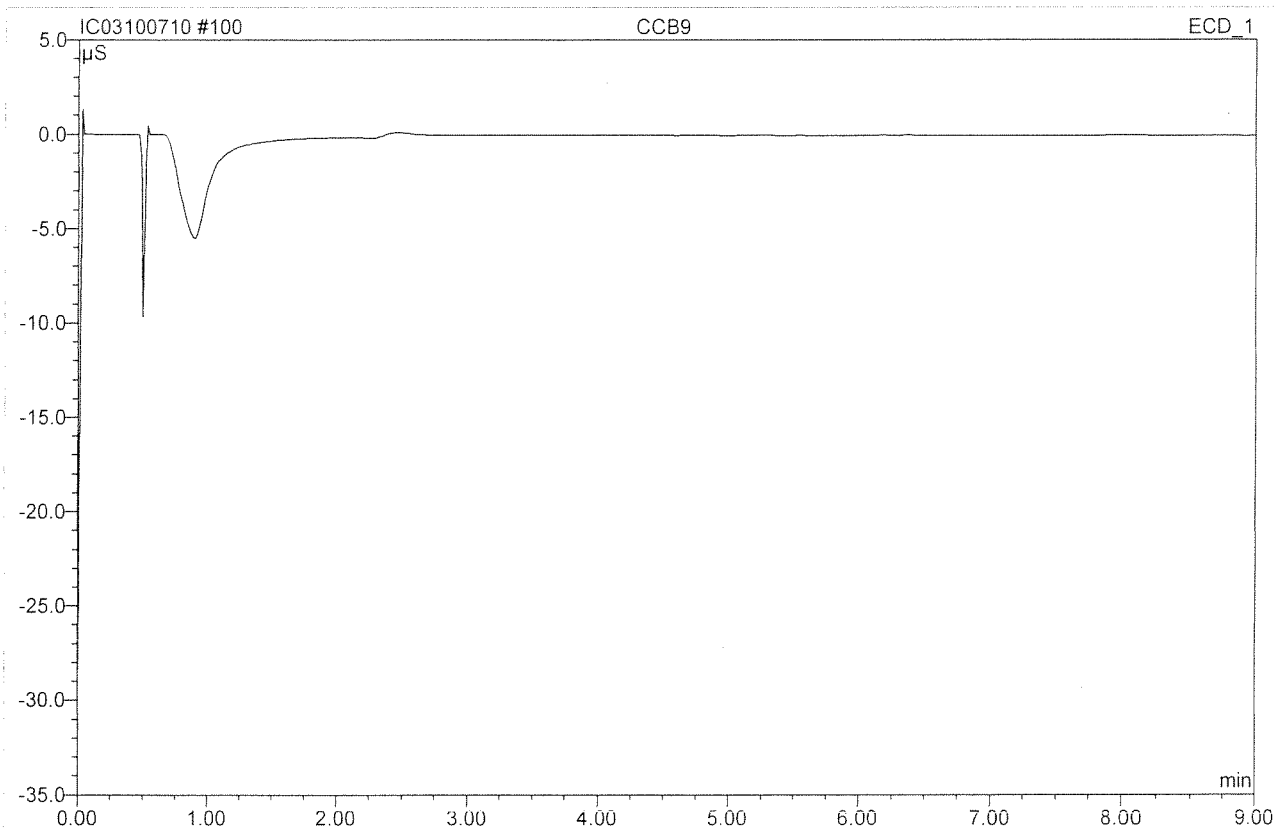
Wrong Peak/Peak not Found  
Labelers/shoulder Incorrect  
Other



# 100 CCB9

## CCB9

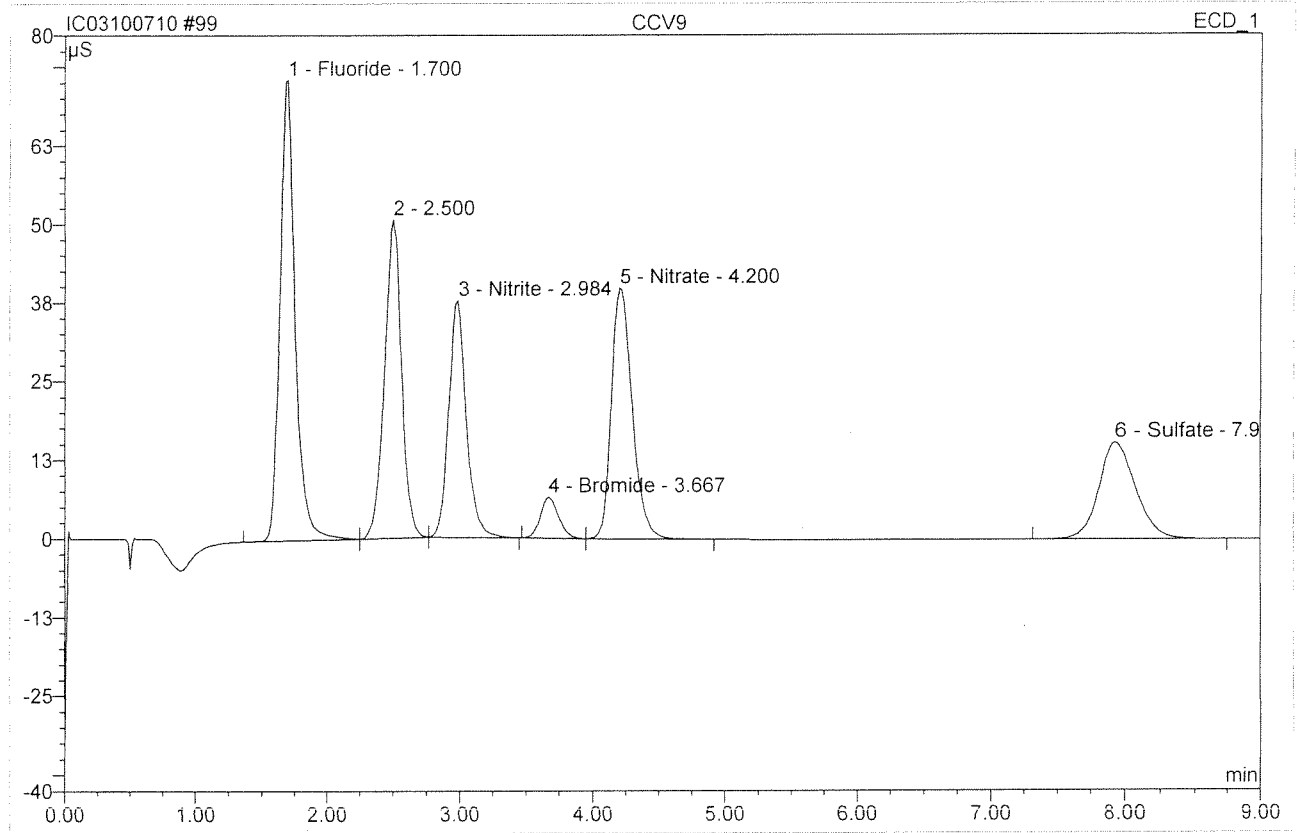
Sample Name:	CCB9	Injection Volume:	200.0
Vial Number:	99	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

*Handwritten signature/initials*

<b>99 CCV9</b>			
<b>CCV9</b>			
Sample Name:	CCV9	Injection Volume:	200.0
Vial Number:	98	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/8/2010 2:36	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



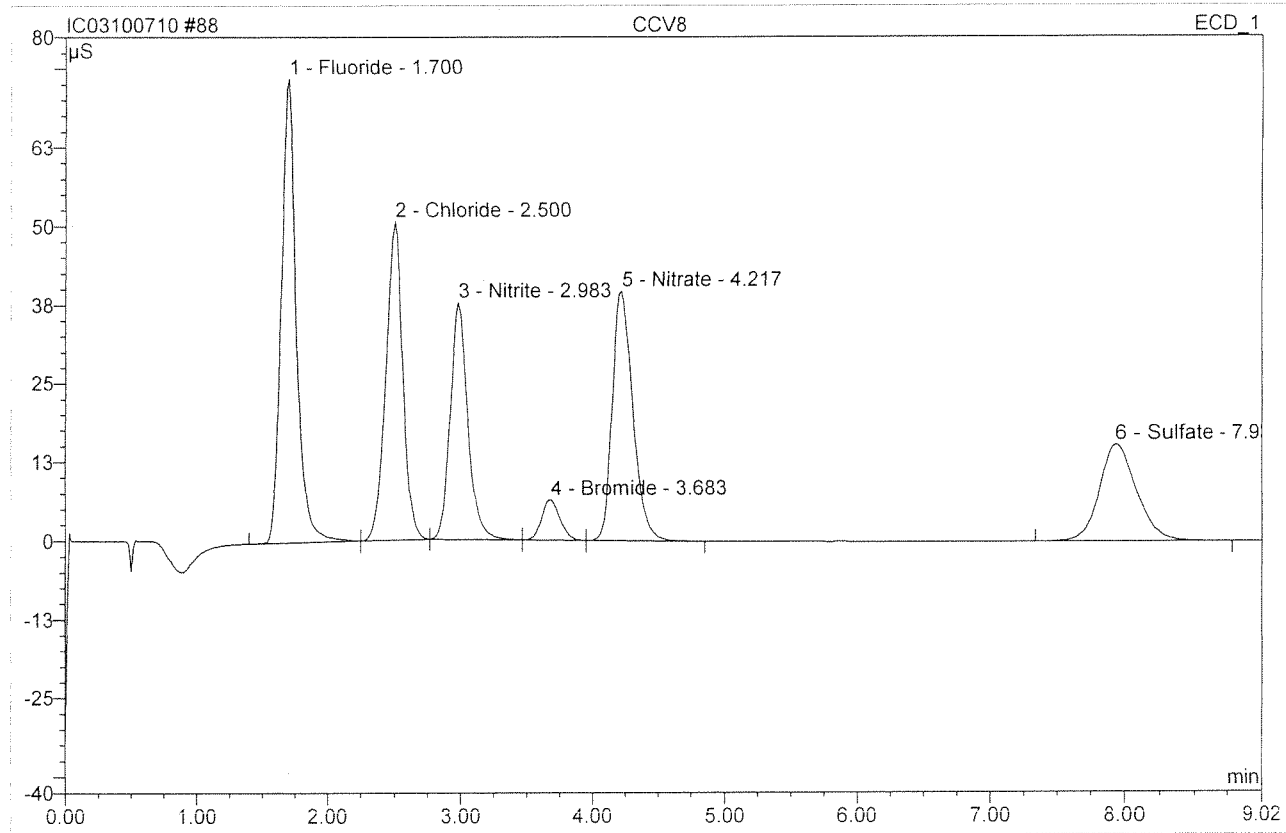
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.255	9.844	27.29	5.270	BMb
2	2.50	n.a.	50.664	7.399	20.52	n.a.	bMb
3	2.98	Nitrite	37.592	5.753	15.95	1.807	bMB
4	3.67	Bromide	6.520	1.032	2.86	1.947	BMb
5	4.20	Nitrate	39.843	7.245	20.09	1.941	bMB
6	7.93	Sulfate	15.408	4.792	13.29	4.819	BMB
<b>Total:</b>			223.281	36.064	100.00	15.784	

Before

OCT 08 2010

*K. K. K.*

<b>88 CCV8</b>			
<b>CCV8</b>			
Sample Name:	<b>CCV8</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>87</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/8/2010 0:30</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.02</b>	Sample Amount:	<b>1.0000</b>

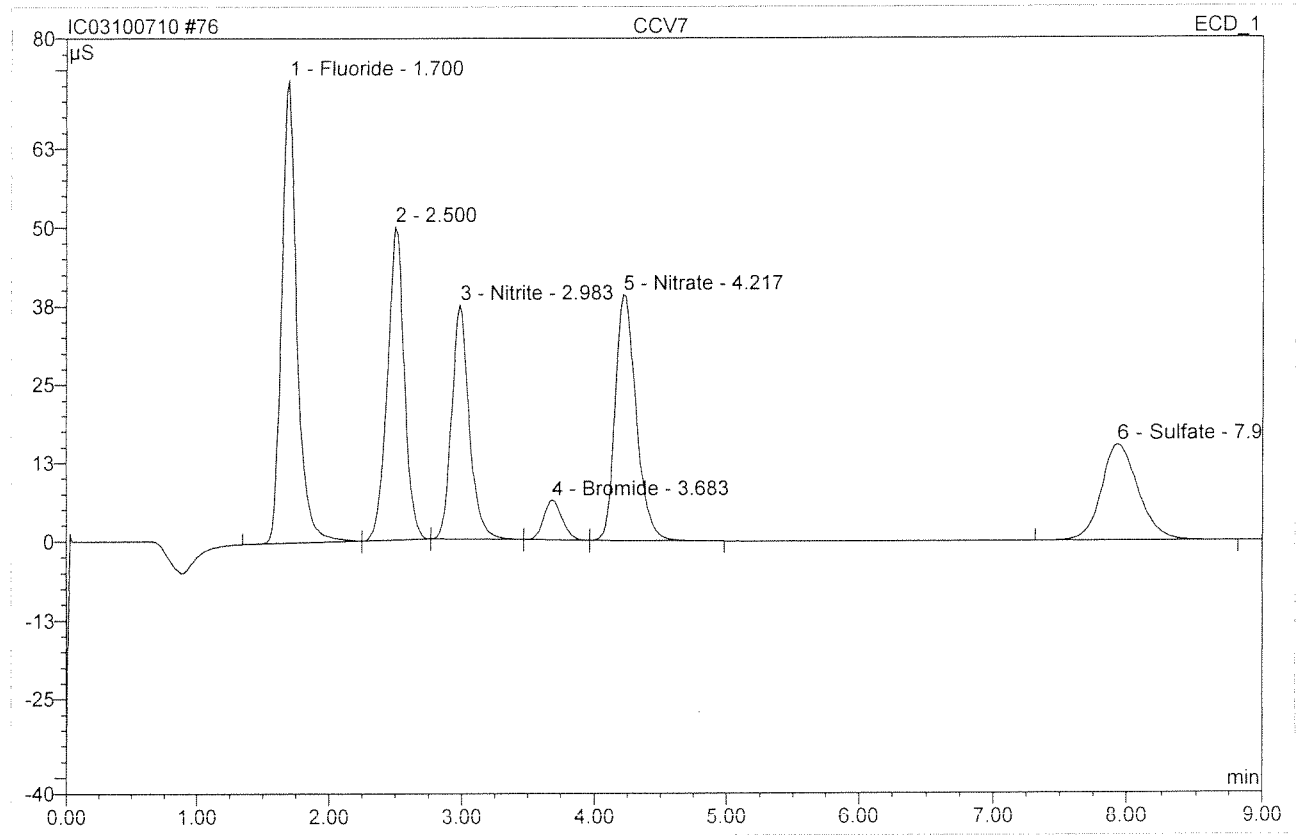


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.789	9.879	27.35	5.290	BMb
2	2.50	Chloride	50.630	7.413	20.52	4.775	bMb
3	2.98	Nitrite	37.654	5.782	16.00	1.816	bMb
4	3.68	Bromide	6.429	1.029	2.85	1.943	bMb
5	4.22	Nitrate	39.711	7.178	19.87	1.923	bMB
6	7.93	Sulfate	15.387	4.845	13.41	4.873	BMB
<b>Total:</b>			223.599	36.127	100.00	20.619	

Before

OCT 08 2010

<b>76 CCV7</b>			
<b>CCV7</b>			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 22:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

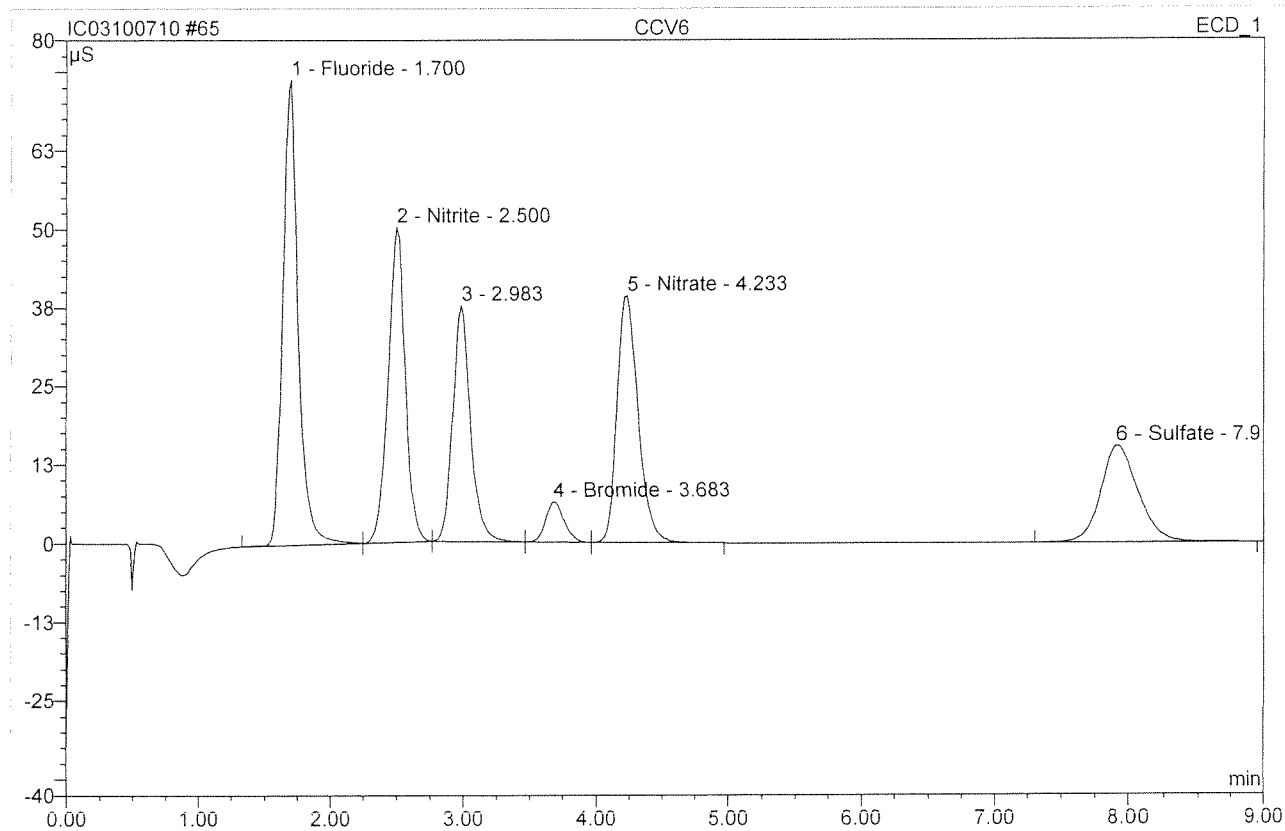


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	73.720	9.897	27.39	5.299	BMb
2	2.50	n.a.	49.968	7.366	20.38	n.a.	bMb
3	2.98	Nitrite	37.379	5.775	15.98	1.814	bMb
4	3.68	Bromide	6.423	1.025	2.84	1.935	bMb
5	4.22	Nitrate	39.234	7.239	20.03	1.939	bMB
6	7.93	Sulfate	15.400	4.836	13.38	4.864	BMB
<b>Total:</b>			222.124	36.138	100.00	15.850	

Before

OCT 08 2010

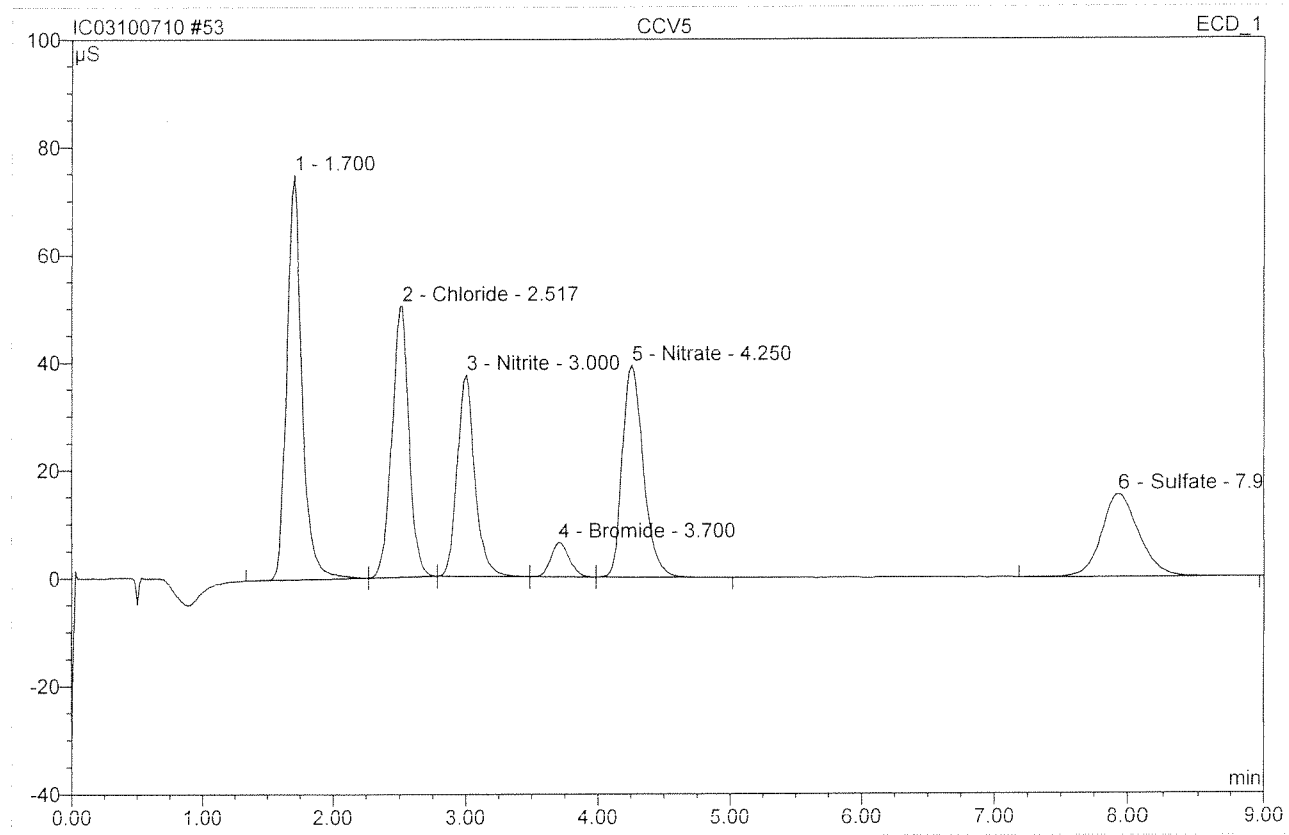
<b>65 CCV6</b>			
<b>CCV6</b>			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 20:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	74.026	9.944	27.44	5.324	BMB
2	2.50	Nitrite	50.090	7.401	20.42	2.324	bMb
3	2.98	n.a.	37.466	5.758	15.89	n.a.	bMb
4	3.68	Bromide	6.398	1.030	2.84	1.943	bMb
5	4.23	Nitrate	39.241	7.242	19.98	1.940	bMB
6	7.92	Sulfate	15.352	4.865	13.43	4.893	BMB
<b>Total:</b>		<b>Before</b>	222.573	36.240	100.00	16.424	

OCT 08 2010

<b>53 CCV5</b>			
<b>CCV5</b>			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 17:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	n.a.	75.100	10.049	27.59	n.a.	BMb
2	2.52	Chloride	50.316	7.442	20.43	4.794	bMb
3	3.00	Nitrite	37.435	5.786	15.89	1.817	bMb
4	3.70	Bromide	6.363	1.028	2.82	1.941	bMb
5	4.25	Nitrate	39.296	7.237	19.87	1.939	bMB
6	7.93	Sulfate	15.422	4.879	13.39	4.906	BMB
<b>Total:</b>			223.933	36.421	100.00	15.397	

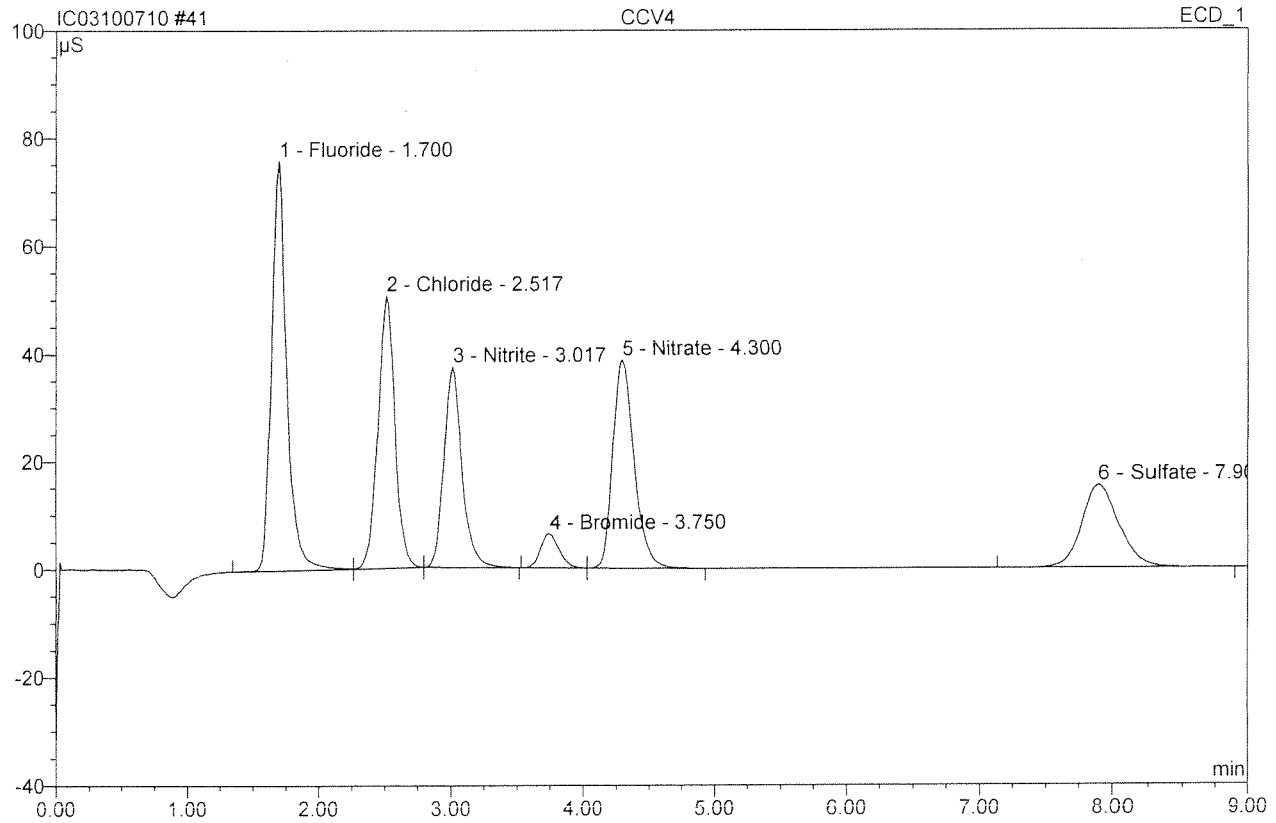
Before

OCT 08 2010

# 41 CCV4

## CCV4

Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 15:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	75.967	10.143	27.67	5.431	BMb
2	2.52	Chloride	50.578	7.486	20.42	4.822	bMb
3	3.02	Nitrite	37.308	5.838	15.92	1.833	bMB
4	3.75	Bromide	6.318	1.027	2.80	1.937	BMb
5	4.30	Nitrate	38.747	7.284	19.87	1.951	bMB
6	7.90	Sulfate	15.332	4.886	13.33	4.914	BMB
<b>Total:</b>			224.252	36.664	100.00	20.889	

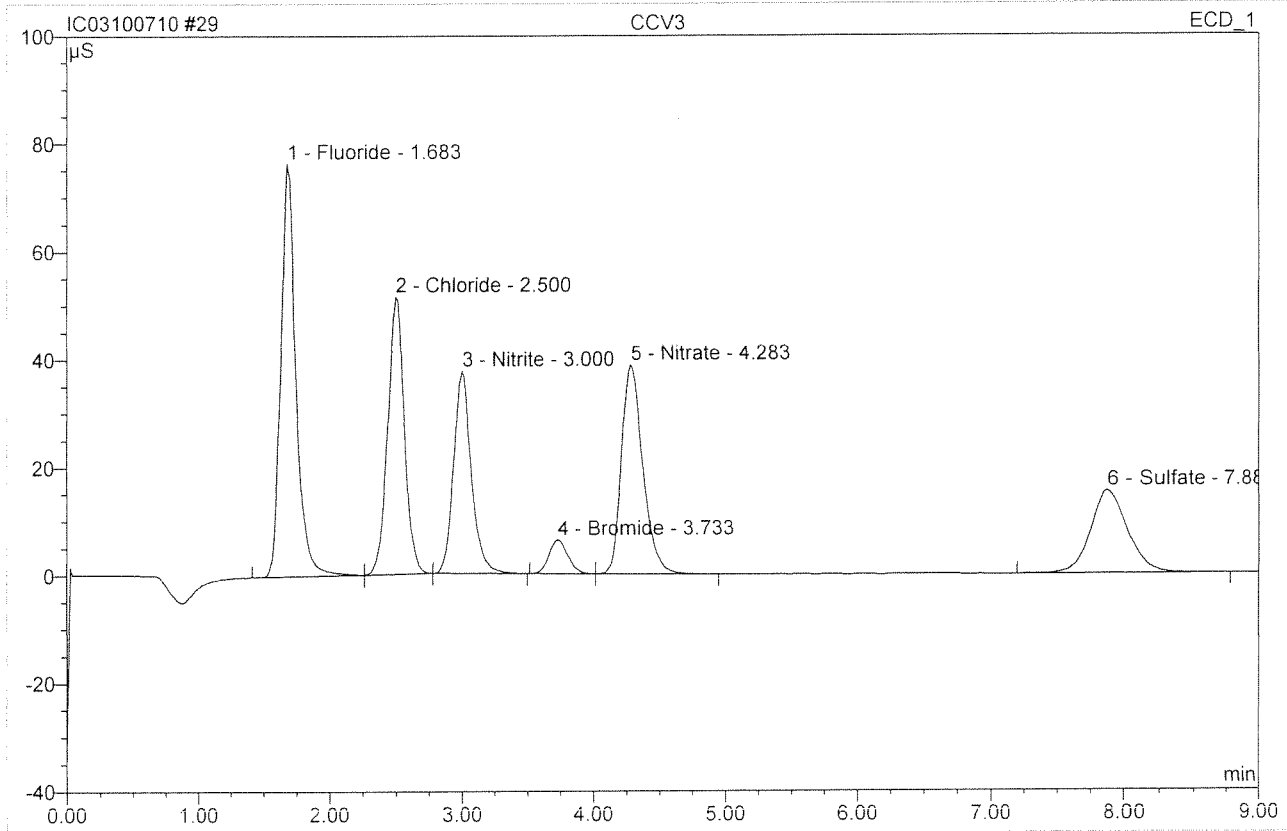
Before

OCT 08 2010

# 29 CCV3

## CCV3

Sample Name:	<b>CCV3</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>28</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 12:43</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



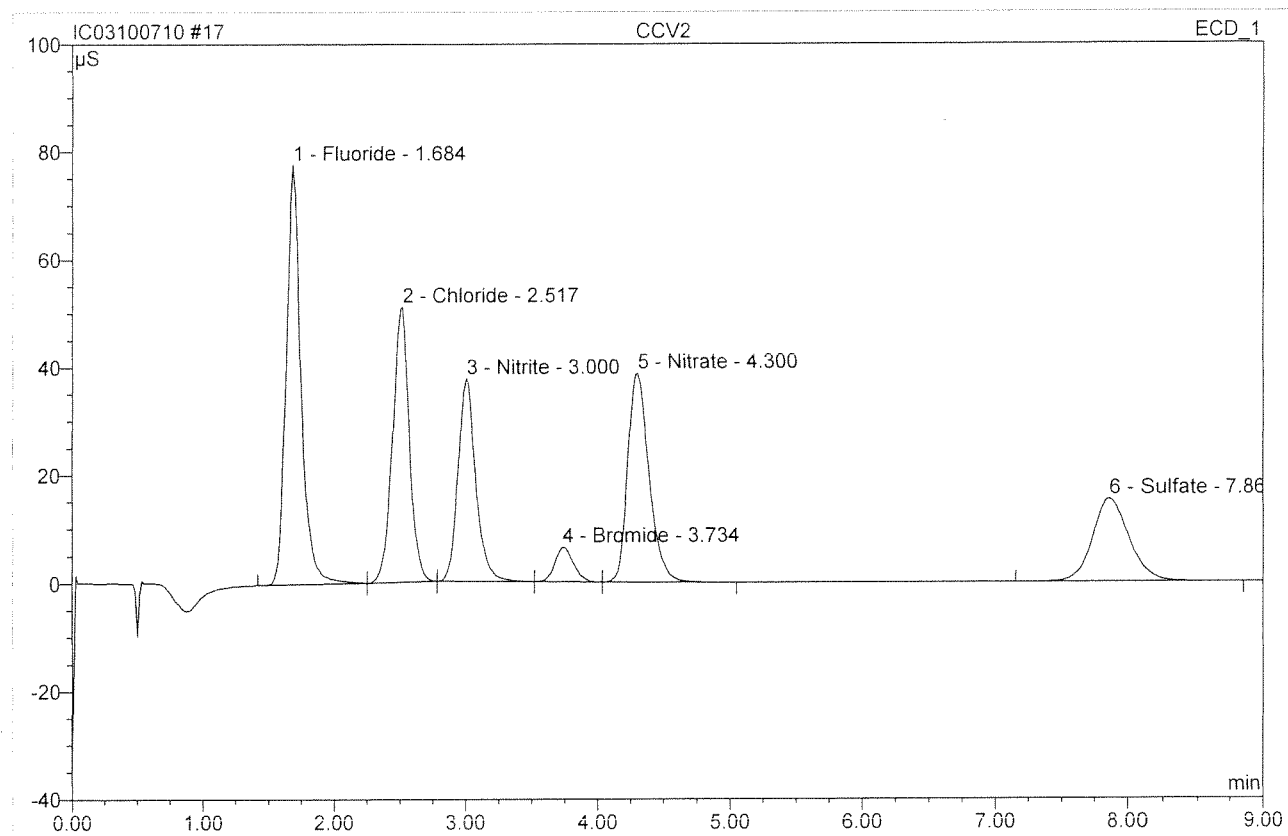
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.553	10.129	27.63	5.423	BMB
2	2.50	Chloride	51.416	7.466	20.37	4.810	bMb
3	3.00	Nitrite	37.524	5.863	15.99	1.841	bMB
4	3.73	Bromide	6.356	1.034	2.82	1.952	BMb
5	4.28	Nitrate	38.888	7.296	19.90	1.954	bMB
6	7.88	Sulfate	15.335	4.871	13.29	4.899	BMB
<b>Total:</b>			226.072	36.660	100.00	20.880	

Before

OCT 08 2010



<b>17 CCV2</b>			
<b>CCV2</b>			
Sample Name:	<b>CCV2</b>	Injection Volume:	<b>200.0</b>
Vial Number:	<b>16</b>	Channel:	<b>ECD_1</b>
Sample Type:	<b>unknown</b>	Wavelength:	<b>n.a.</b>
Control Program:	<b>epa300</b>	Bandwidth:	<b>n.a.</b>
Quantif. Method:	<b>epa300</b>	Dilution Factor:	<b>1.0000</b>
Recording Time:	<b>10/7/2010 10:25</b>	Sample Weight:	<b>1.0000</b>
Run Time (min):	<b>9.00</b>	Sample Amount:	<b>1.0000</b>



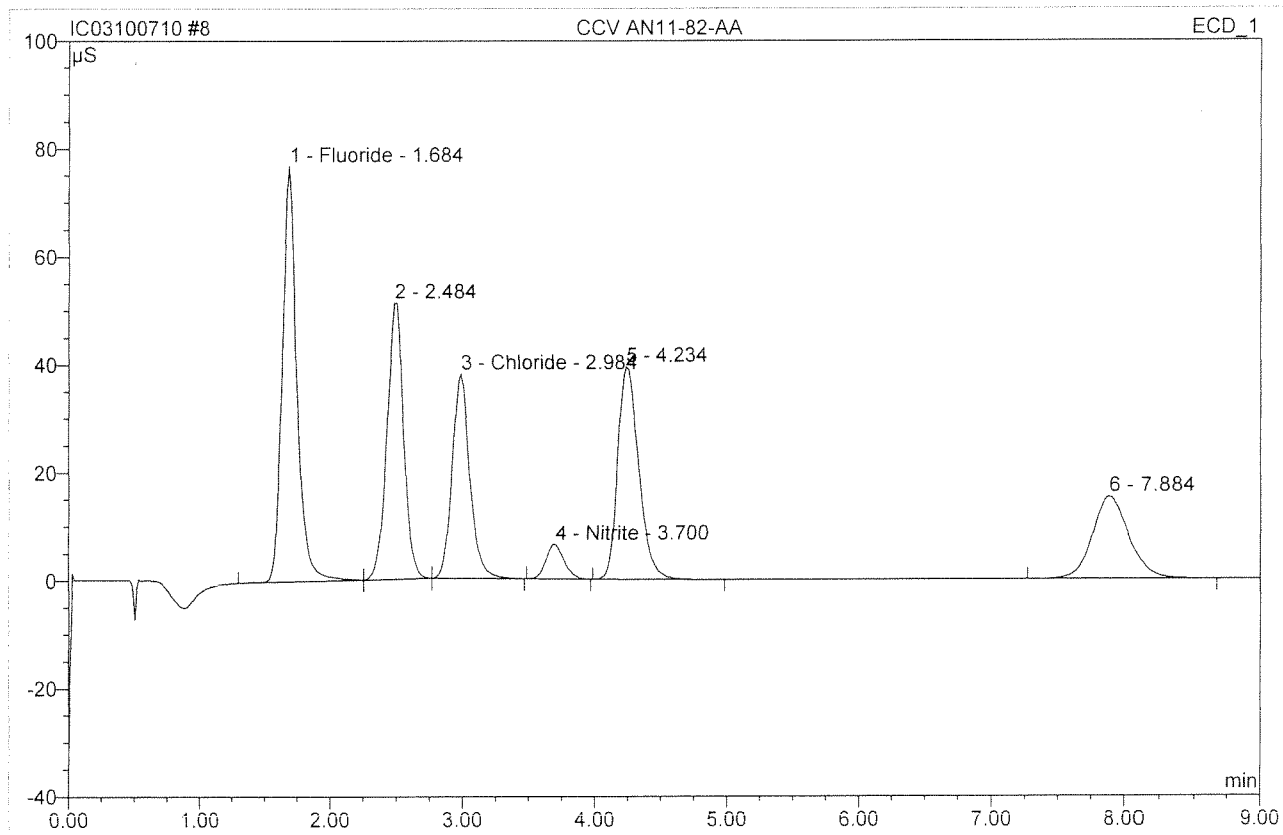
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	77.761	10.256	27.82	5.491	BMb
2	2.52	Chloride	50.996	7.527	20.42	4.849	bMb
3	3.00	Nitrite	37.589	5.845	15.86	1.836	bMb
4	3.73	Bromide	6.369	1.041	2.82	1.965	bMb
5	4.30	Nitrate	38.664	7.277	19.74	1.949	bMB
6	7.87	Sulfate	15.414	4.914	13.33	4.942	BMB
<b>Total:</b>			226.793	36.861	100.00	21.032	

Before

OCT 08 2010

### 8 CCV AN11-82-AA

Sample Name:	CCV AN11-82-AA	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	10/7/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

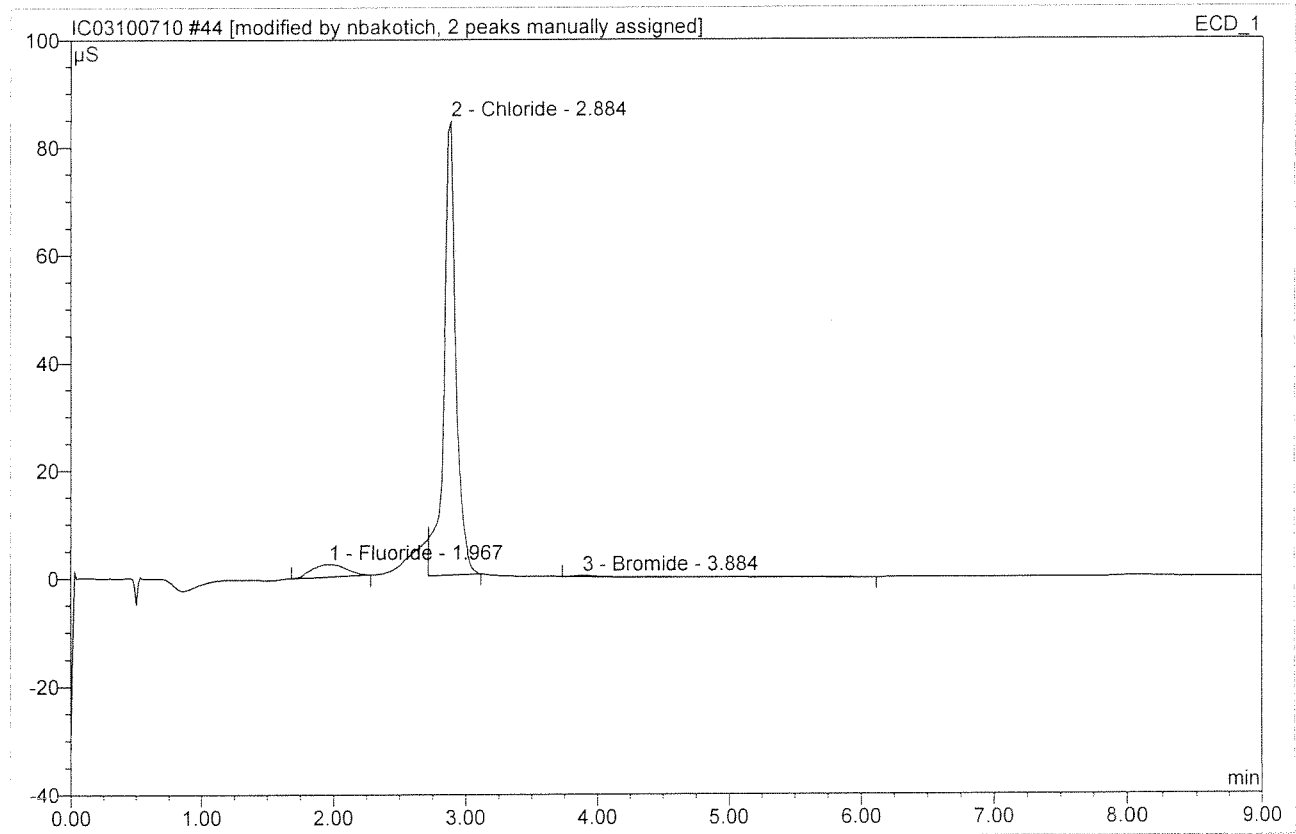


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	76.903	10.004	27.48	5.356	BMb
2	2.48	n.a.	51.241	7.454	20.48	n.a.	bMb
3	2.98	Chloride	37.906	5.829	16.01	3.755	bMB
4	3.70	Nitrite	6.369	1.024	2.81	0.322	BMB
5	4.23	n.a.	39.419	7.225	19.85	n.a.	BMB
6	7.88	n.a.	15.376	4.866	13.37	n.a.	BMB
<b>Total:</b>			227.214	36.401	100.00	9.433	

Before

OCT 08 2010

<b>44 K1011162-003</b>			
Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 16:06	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride $\bar{x}=0.73$ RPD=7	2.328	0.703	7.37	0.753	BMB*^
2	2.88	Chloride $\bar{x}=11.7$ RPD=8	84.206	8.771	91.89	11.300	MB*^
3	3.88	Bromide	0.201	0.071	0.74	0.267	BMB*
<b>Total:</b>			86.735	9.545	100.00	12.320	

$NO_2$  <0.10 <0.10 RPD  
 $NO_3$  ↓ <0.10  
 $SO_2$  <0.20 <0.20 ✓

After Initials nb

OCT 08 2010

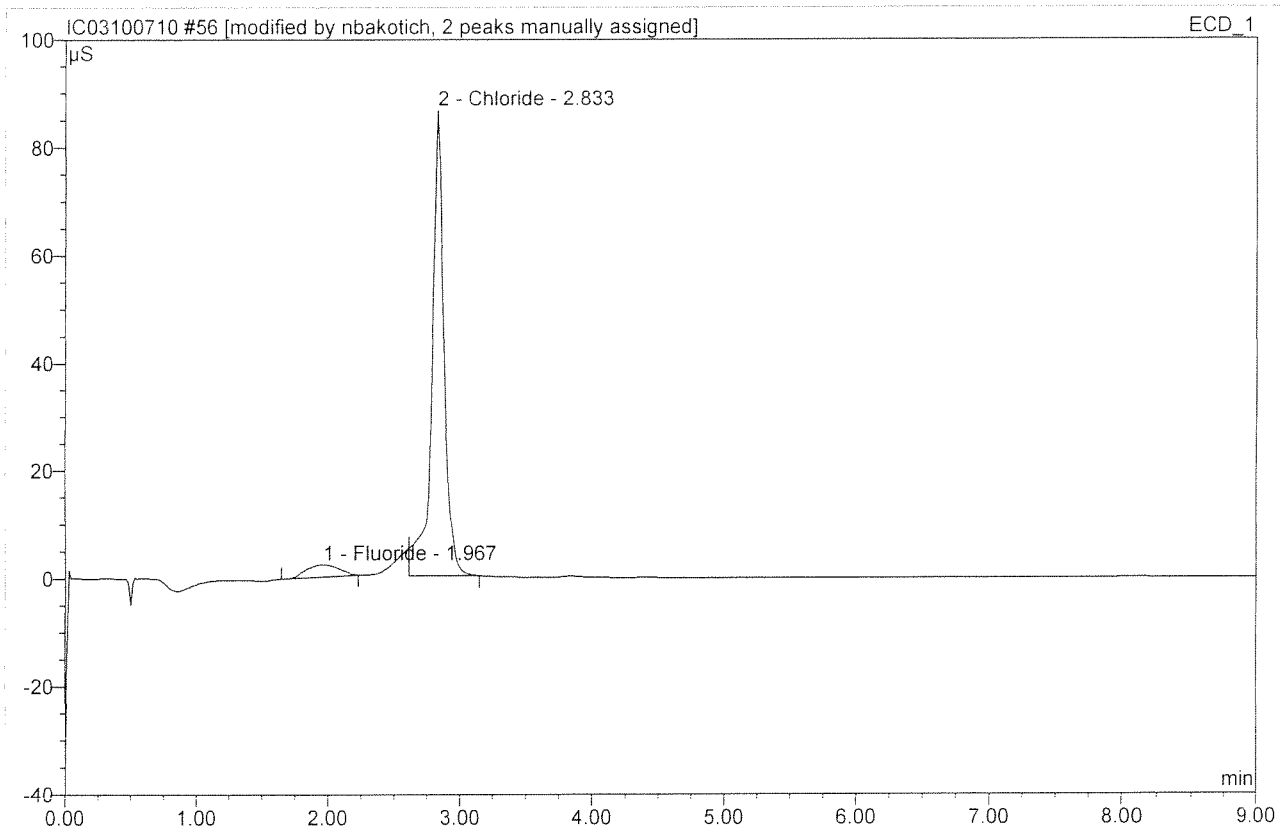
Handwritten signature and date: 10/19/10

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

**56 K1011162-003**

**D**

Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	10/7/2010 18:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	2.266	0.656	6.58	0.702	BMB*^
2	2.83	Chloride	86.410	9.308	93.42	11.992	MB*^
<b>Total:</b>			88.675	9.963	100.00	12.694	

NO<sub>2</sub> <0.10  
NO<sub>3</sub> ✓  
SO<sub>4</sub> <0.20

After Initials

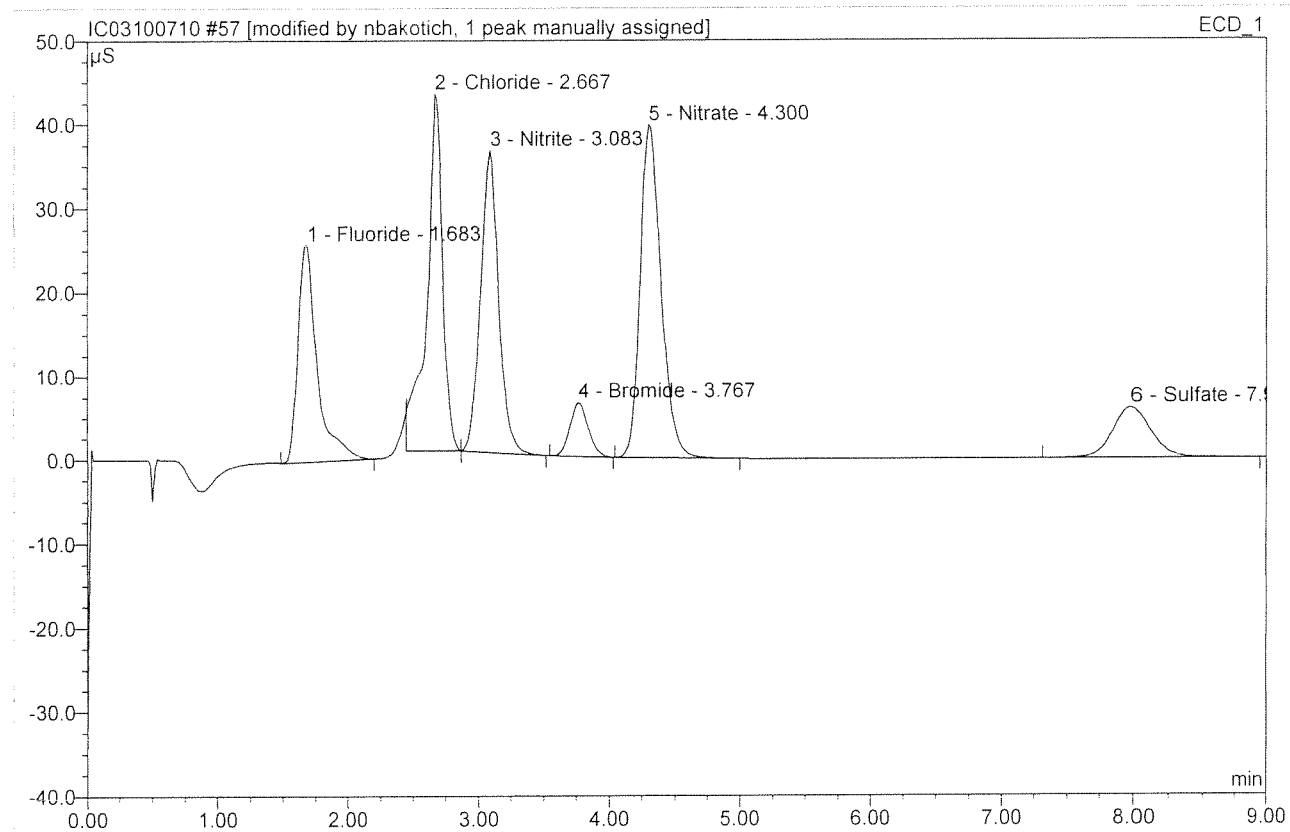
10

OCT 08 2010

H. J. P. / 10

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

<b>57 K1011162-003</b>			
<b>MS</b>			
Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 18:35	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride <i>REC=117</i>	25.855	4.448	16.66	11.907	BMB <sup>^</sup>
2	2.67	Chloride <i>REC=81</i>	42.556	6.018	22.55	19.385	Mb*
3	3.08	Nitrite <i>REC=91</i>	35.993	5.803	21.74	9.112	bMB
4	3.77	Bromide <i>REC=97</i>	6.484	1.060	3.97	10.000	BMB
5	4.30	Nitrate <i>REC=99</i>	39.681	7.418	27.79	9.936	BMB
6	7.98	Sulfate <i>REC=98</i>	6.057	1.947	7.29	9.790	BMB
<b>Total:</b>			156.627	26.694	100.00	70.131	

After Initials nb

OCT 08 2010

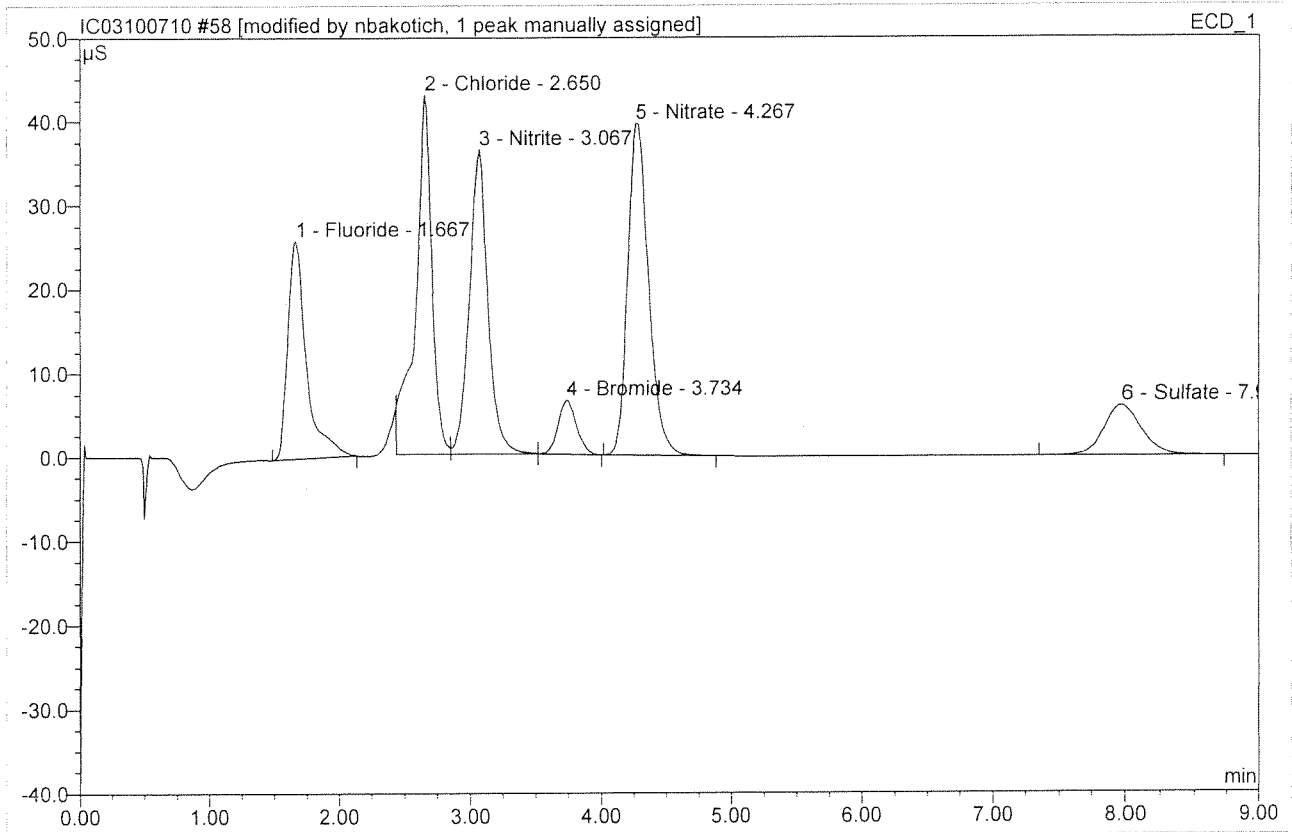
Wrong Peak/Peak not Found  
 Baseline/shoulder Incorrect  
 Other \_\_\_\_\_

default/Integration

*spt 1/10*

*AK 10/8/10*

<b>58 K1011162-003</b>			
<b>MSD</b>			
Sample Name:	K1011162-003	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	10/7/2010 18:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.67	Fluoride <i>REC=110</i>	25.970	4.360	16.22	11.671	BMB <sup>^</sup>
2	2.65	Chloride <i>REC=88</i>	42.781	6.225	23.16	20.052	M *
3	3.07	Nitrite <i>REC=94</i>	36.238	5.963	22.19	9.363	Mb*
4	3.73	Bromide <i>REC=99</i>	6.432	1.046	3.89	9.875	bMB
5	4.27	Nitrate <i>REC=99</i>	39.578	7.364	27.40	9.864	BMB
6	7.98	Sulfate <i>REC=96</i>	6.017	1.919	7.14	9.648	BMB
<b>Total:</b>			157.016	26.877	100.00	70.473	

*spk M1  
10*

Alter Initials *AB*

OCT 08 2010

*AB 10/10/10*

Original  
 Work Request # (K10795) K10850 K10899 K11021 K11023 K11025 K11032  
 Tier: III III III II I II II  
 Date Analyzed: 10/13/10 K11236 K11242  
 Analyst: Houngmy II II  
 Analysis: NH<sub>3</sub>-N - 350.1/SM 4500-NH<sub>3</sub> G

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/ NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/ NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 10/14/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-FLA-01

Analyst: THANGANU

Analysis Lot: 220569

Method/Testcode: 350.1/Ammonia D

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
010795-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010795-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010795-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010850-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010850-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010850-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.43 mg/L	5 mL	0.432 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010850-004	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010899-001	Ammonia as Nitrogen, Dissolved	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
010899-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011021-001	Ammonia as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011023-001	Ammonia as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011023-001	Ammonium as Nitrogen	N/A		Water	2.10 mg/L	5 mL	10.5 mg/L	5	0.10	0.25			10/13/10 10:10:35	N	I
011025-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011032-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011236-001	Ammonia as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	II
011242-001	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	V
011076-01	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-01	Ammonia as Nitrogen, Dissolved	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-01	Ammonium as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonia as Nitrogen, Dissolved	LCS		Water	1.46 mg/L	5 mL	14.6 mg/L	10	0.20	0.50			10/13/10 10:10:35	N	III
011076-02	Ammonium as Nitrogen	LCS		Water	1.46 mg/L	5 mL	1.46 mg/L	1	0.020	0.050		102	10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-03	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-04	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III
011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/13/10 10:10:35	N	III

Final Result is not yet adjusted for Solids because it has not yet been determined.

10/13/10 10:10:35

Results Summary

10/13/10  
Fang



# Analytical Results Summary

Instrument Name: K-FLA-01

Analyst: THANGANU

Analysis Lot: 220569

Method/Testcode: SM 4500-NH3 G/Ammonia

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1011076-05	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-05	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-05	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-06	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-06	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-06	Ammonium as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/13/10 10:10:35	N	III
1011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-07	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-07	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-07	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-08	Ammonia as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-08	Ammonia as Nitrogen, Dissolved	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-08	Ammonium as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1					10/13/10 10:10:35	N	III
1011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-09	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-09	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-09	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-10	Ammonia as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-10	Ammonia as Nitrogen, Dissolved	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-10	Ammonium as Nitrogen	CCV		Water	2.01 mg/L	5 mL	2.01 mg/L	1					10/13/10 10:10:35	N	III
1011076-11	Ammonia as Nitrogen, Dissolved	MS	K1010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1			102		10/13/10 10:10:35	N	III
1011076-12	Ammonia as Nitrogen, Dissolved	DMS	K1010795-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1			102		10/13/10 10:10:35	N	III
1011076-13	Ammonia as Nitrogen, Dissolved	DUP	K1010795-001	Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			10/13/10 10:10:35	N	III

LES ID#: A+L NH<sub>3</sub>/ - 35-A  
 Spike ID#: B+L NH<sub>3</sub>/ - 86-D  
 Curve, CV ID#: B+L NH<sub>3</sub>/ - 56-X  
 MW MS = 2.00  
 F.V. = 14.3  
 F.V. = 2.00  
 F.V. = 2.00

10/13/10  
 Ferguson

**BRAN+LUEBBE**

Post-run report

Name of Run	: 101013A	Name of Analysis	: Ammonia
Date of Report	: 10/13/2010	System No.	: 1
Date of Run	: 10/13/2010	Type of System	: AA3
Operator	:	Start/Stop time	: 10:10 - 11:13
Comment	:		

Channel	:	2
Method	:	Method 2
Unit	:	mg/L
Calibr. Fit	:	Linear
Corr. Coeff.	:	1.0000
Base	:	-18318
Gain	:	19
Sensitivity	:	0.4576
Sample Limit 1	:	
Sample Limit 2	:	

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0057
1	1	P Primer	4.9962
2	1	D Drift	4.9950
3	1	C 5.00	4.9943
4	2	C 2.00	2.0152
5	3	C 0.50	0.4951
6	4	C 0.05	0.0498
7	5	C 0	-0.0045
8	0	B Baseline	-0.0057
9	1	H1 High	5.0082
10	0	L1 Low	0.0048
11	0	L1 Low	0.0049
12	5	QC2 CCB1	0.0037
13	2	QC1 CCV1	2.0200
14	10	QC3 LCS1*10	1.4588
15	11	S MB MS	2.0291
16	0	N Null	0.0016N
17	5	QC2 MB1	0.0037
18	12	S k1010795-001	0.0007
19	13	S k1010795-001d	0.0020
20	14	S k1010795-001ms <i>Diss.</i>	2.0387
21	15	S k1010795-001msd	2.0390
22	16	S k1010795-002	0.0023
23	0	B Baseline	-0.0057
24	5	QC2 CCB2	0.0031
25	2	QC1 CCV2	2.0187
26	17	S k1010795-003 <i>-Diss</i>	-0.0003

10/13/10  
Haugen

27	18	S	k1010850-001	0.0151
28	19	S	k1010850-002	0.0016
29	20	S	k1010850-003	0.4315
30	21	S	k1010850-004	0.0001
31	22	S	k1010899-001	0.0084
32	23	S	k1010899-002	0.0001
33	24	S	k1011021-001	0.0209
34	25	S	k1011023-001*5	2.1033
35	0	B	BASELINE	-0.0057
36	5	QC2	CCB-3	-0.0037
37	2	QC1	CCV-3	2.0069
38	26	S	k1011025-001	0.0121
39	27	S	k1011032-001	0.0074
40	28	S	k1011217-002	11.0048*
41	29	S	k1011228-001	0.0654
42	30	S	k1011236-001	0.0104
43	31	S	k1011242-001	0.0339
44	0	B	Baseline	-0.0057
45	5	QC2	CCB4	-0.0035
46	2	QC1	CCV4	2.0103
47	1	D	Drift	4.9950
48	0	B	Baseline	-0.0057
49	0	B	FinalBase	-0.0057

} diss.

} HR

## QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

## CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed

10/13/10  
Haugen

BRAN+LUEBBE AACE 6.02

Post-run Report

N ... Value not calculated or not used

R ... Resample after offscale

M ... Peak marker moved manually

D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/13/10  
Ferguson

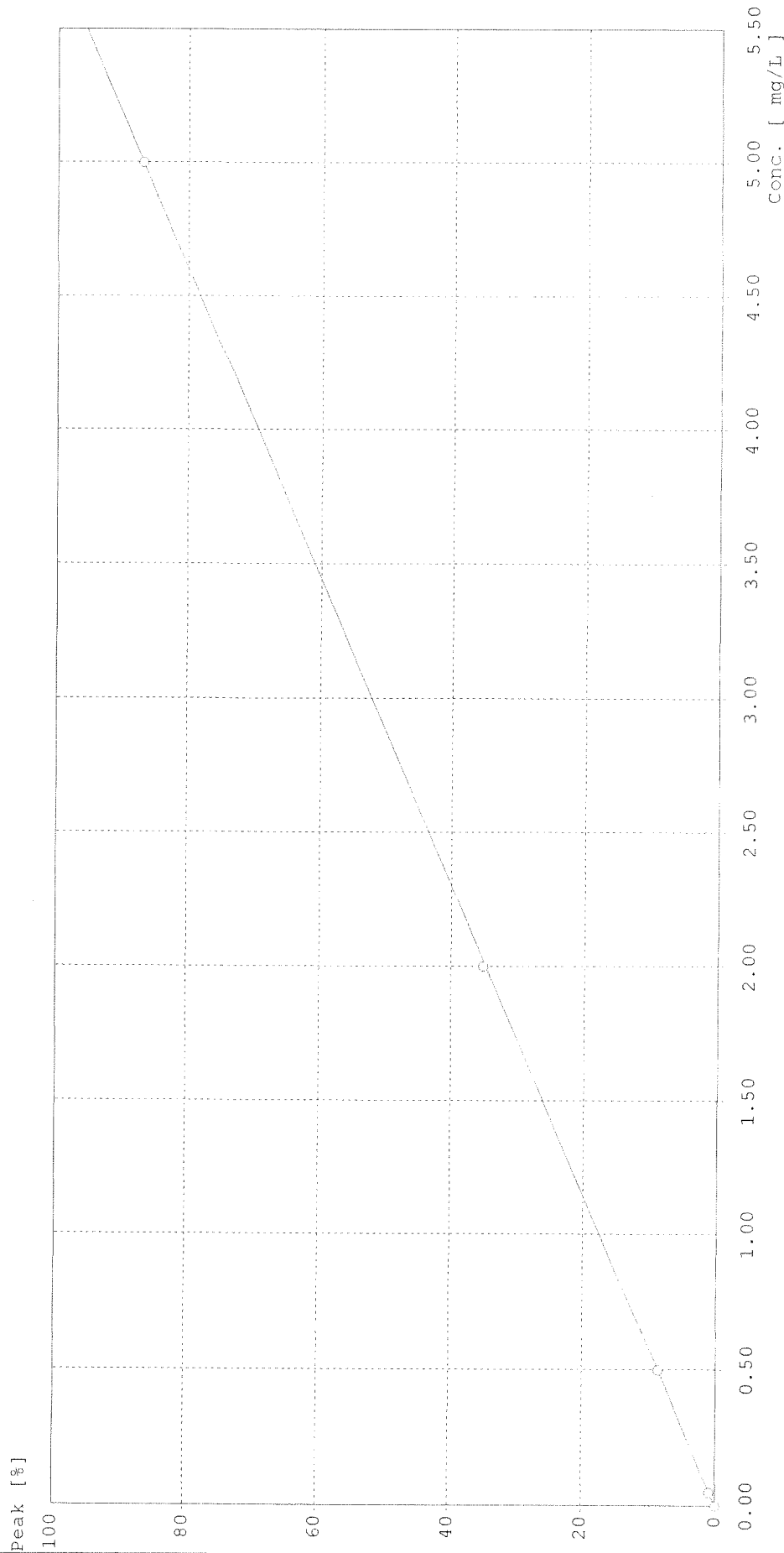
# BRAN+LUEBBE

Calibration Curve

Name of run : 101013A.run  
Comment :

Name of analysis : Ammonia

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.0827E-001      b=8.7765E-005  
Corr. coeff. : 1.0000



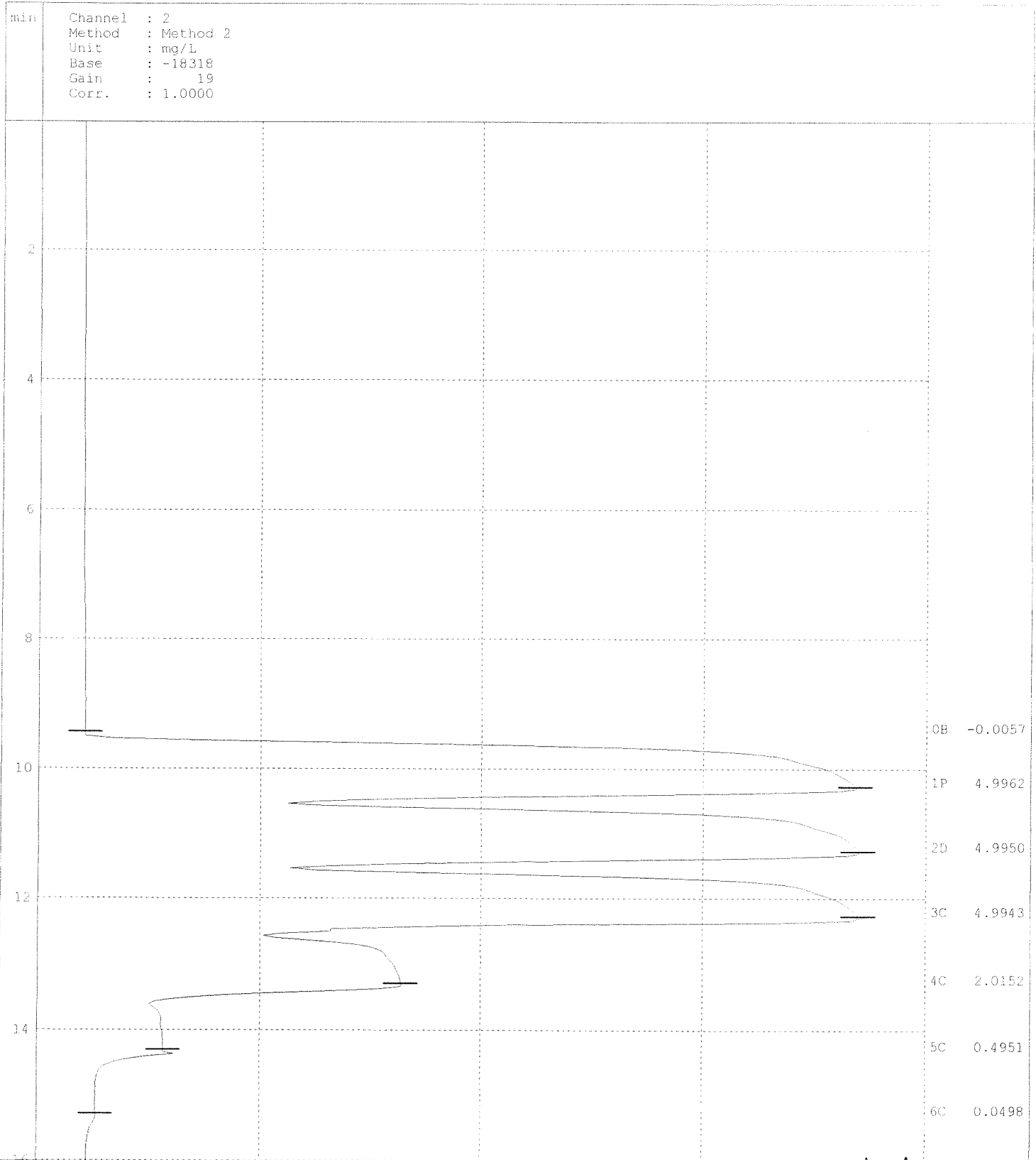
10/13/10  
Haugen

# BRAN+LUEBBE

Post-run chart

Name of run :101013A.RUN  
Comment :

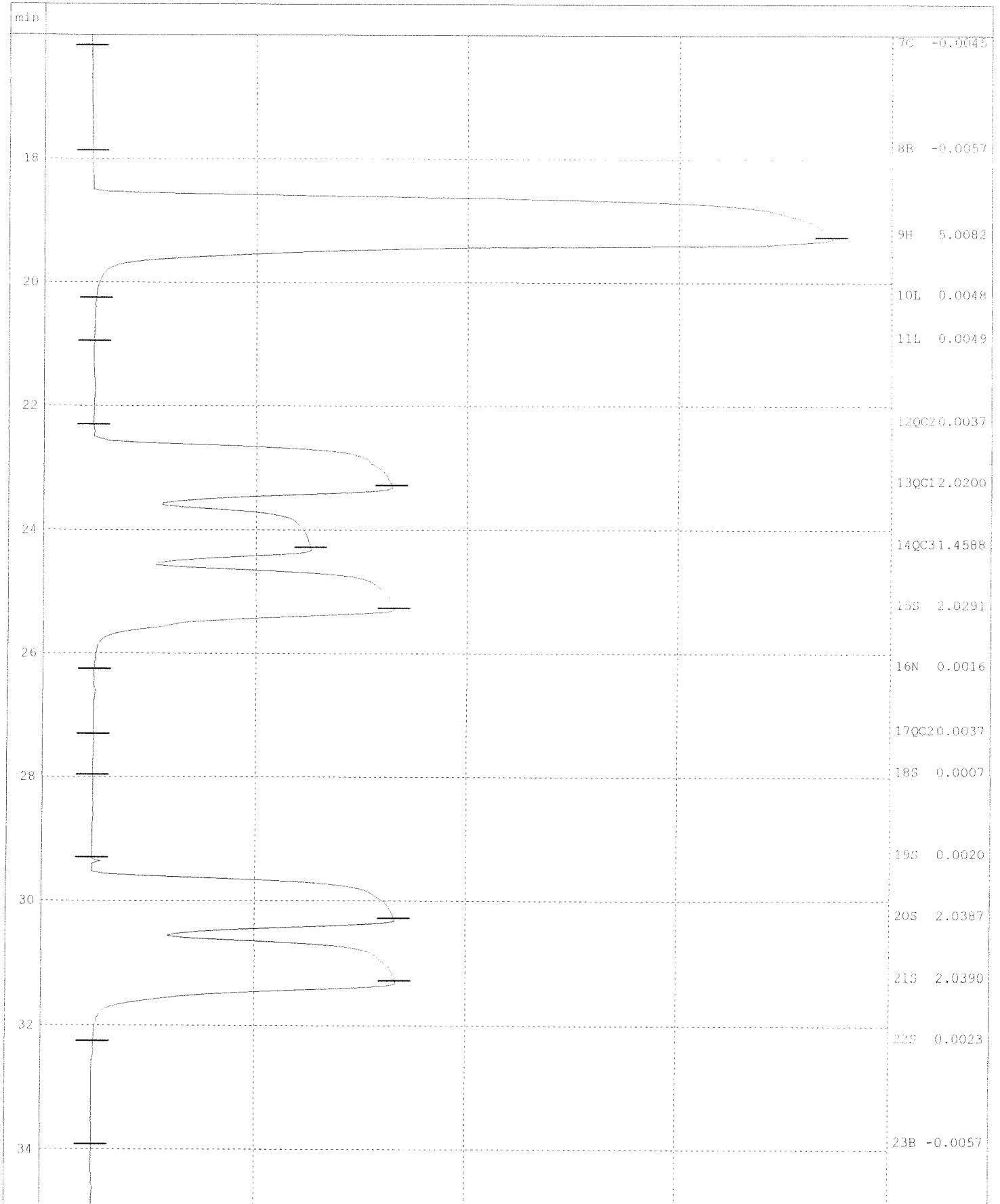
Name of analysis :Ammonia



10/13/10  
Tang

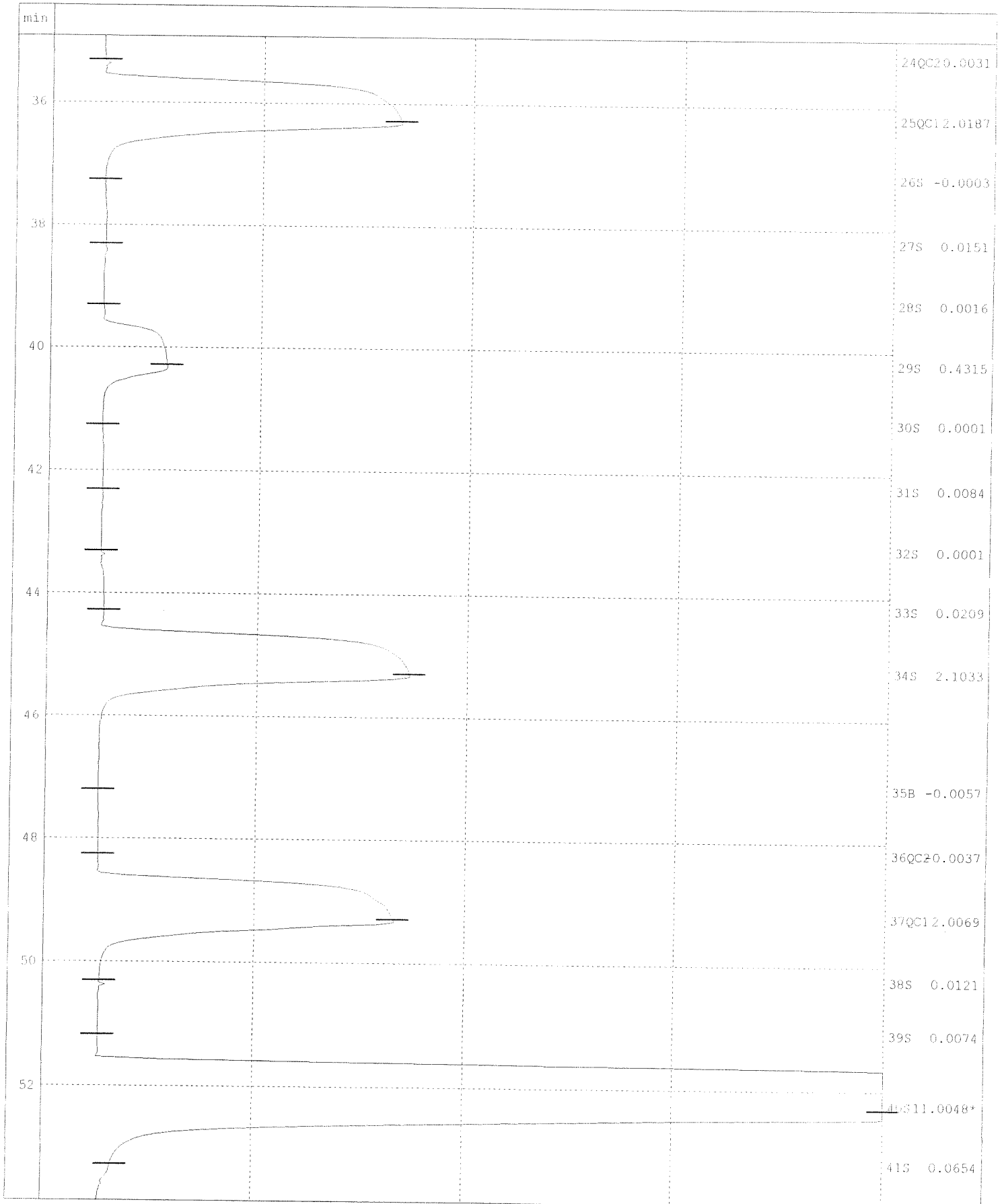
Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Name of run :101013A.RUN  
Comment :

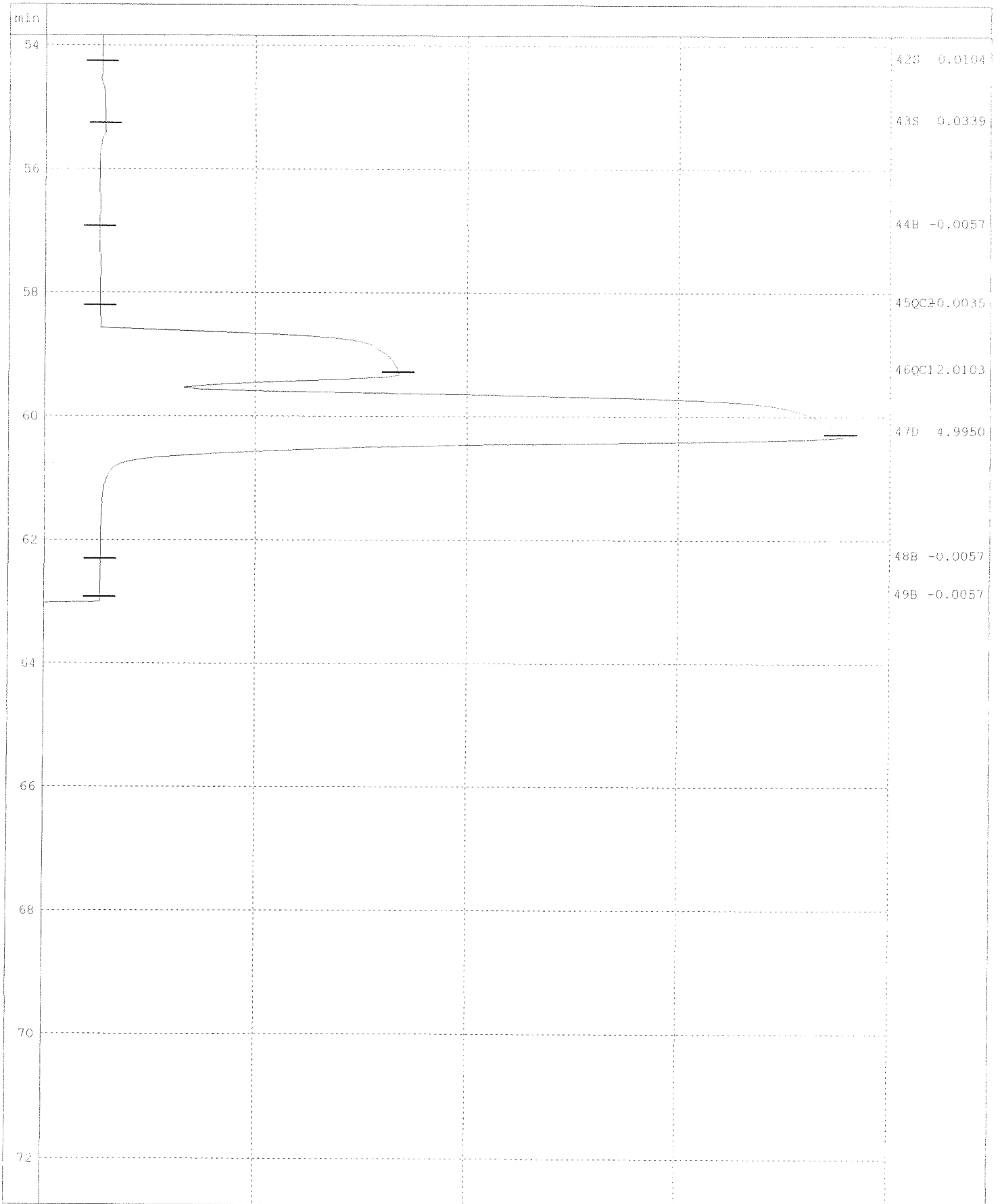
Name of analysis :Ammonia





Name of run :101013A.RUN  
Comment :

Name of analysis :Ammonia



Work Request # <sup>Original</sup> (K10899)  
 Tier: III  
 Date Analyzed: 10/02/10  
 Analyst: JFungus  
 Analysis: NO<sub>2</sub>-N - 353.2

219176

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 10/9/10 DOREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANTU

Analysis Lot:

219176

Method/Testcode: 353.2/NO2

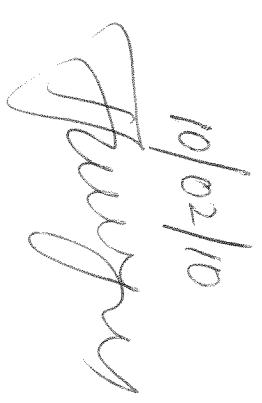
Ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1010899-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.005	0.050			10/2/10 11:05	N III
1010899-002	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.005	0.050			10/2/10 11:05	N III
Q1010644-01	Nitrite as Nitrogen	MS	K1010899-001	Water	1.99 mg/L	5 mL	1.99 mg/L	1	0.005	0.050	99		10/2/10 11:05	N III
Q1010644-02	Nitrite as Nitrogen	DMS	K1010899-001	Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.005	0.050	98	<1	10/2/10 11:05	N III
Q1010644-03	Nitrite as Nitrogen	DUP	K1010899-001	Water	-0.01 mg/L	5 mL	0.050 mg/L U	1	0.005	0.050		NC	10/2/10 11:05	N III
Q1010644-04	Nitrite as Nitrogen	MB		Water	0.01 mg/L	5 mL	0.010 mg/L J	1	0.005	0.050			10/2/10 11:05	N III
Q1010644-05	Nitrite as Nitrogen	LCS		Water	4.00 mg/L	5 mL	4.00 mg/L	1	0.005	0.050	100		10/2/10 11:05	N III
Q1010644-06	Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/2/10 11:05	N III
Q1010644-07	Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			10/2/10 11:05	N III
Q1010644-08	Nitrite as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1	0.050	0.050			10/2/10 11:05	N III
Q1010644-09	Nitrite as Nitrogen	CCV		Water	2.02 mg/L	10/10 <sup>5</sup> mL	2.02 mg/L	1					10/2/10 11:05	N III

*LCS ID#: AN/111-31-D T.V. = 4.00*  
*Spike ID#: B+LN03/1-97-N T.V. = 2.00*  
*Curve, CCV ID#: B+LN03/1-69-M T.V. = 200*

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 10/2/10 11:47

Results Summary

*10/02/10*  


K10899

# BRAN+LUEBBE

Post-run report

Name of Run : 101002B  
Date of Report : 10/2/2010  
Date of Run : 10/2/2010  
Operator :  
Comment :

Name of Analysis : Nitrite.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 11:05 - 11:42

Channel : 2  
Method : Method 2  
Unit :  
Calibr. Fit : Linear  
Corr. Coeff. : 1.0000  
Base : -18973  
Gain : 6  
Sensitivity : 1.4653  
Sample Limit 1 :  
Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0108
1	1	P Primer	4.9490
2	1	D Drift	4.9689
3	1	C 5.00	4.9895
4	2	C 2.00	2.0271
5	3	C 0.50	0.4955
6	4	C 0.05	0.0438
7	5	C 0	-0.0058
8	1	H1 High	4.9659
9	0	L1 Low	0.0052
10	0	L1 Low	-0.0029
11	5	QC2 CCB1	-0.0062
12	2	QC1 CCV1	1.9926
13	10	QC3 LCS1	4.0030
14	0	N Null	0.0037N
15	5	QC2 MB1	0.0101
16	11	S k1010899-001diss.	-0.0044
17	12	S k1010899-001d diss	-0.0067
18	13	S k1010899-001msdiss.	1.9855
19	14	S k1010899-001msddis.	1.9663
20	15	S k1010899-002diss	-0.0022
21	0	B Baseline	-0.0098
22	5	QC2 CCB2	-0.0079
23	2	QC1 CCV2	2.0155
24	1	D Drift	5.0030
25	0	B Baseline	-0.0077
26	0	B FinalBase	-0.0070

10/02/10  
*[Handwritten Signature]*

## QC Limits

---

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

---

## CORRECTIONS

Channel	:	2
Baseline	:	No
Drift	:	No
Carry over	:	No
%:		0.0

---

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

10/02/10  
*Henry*

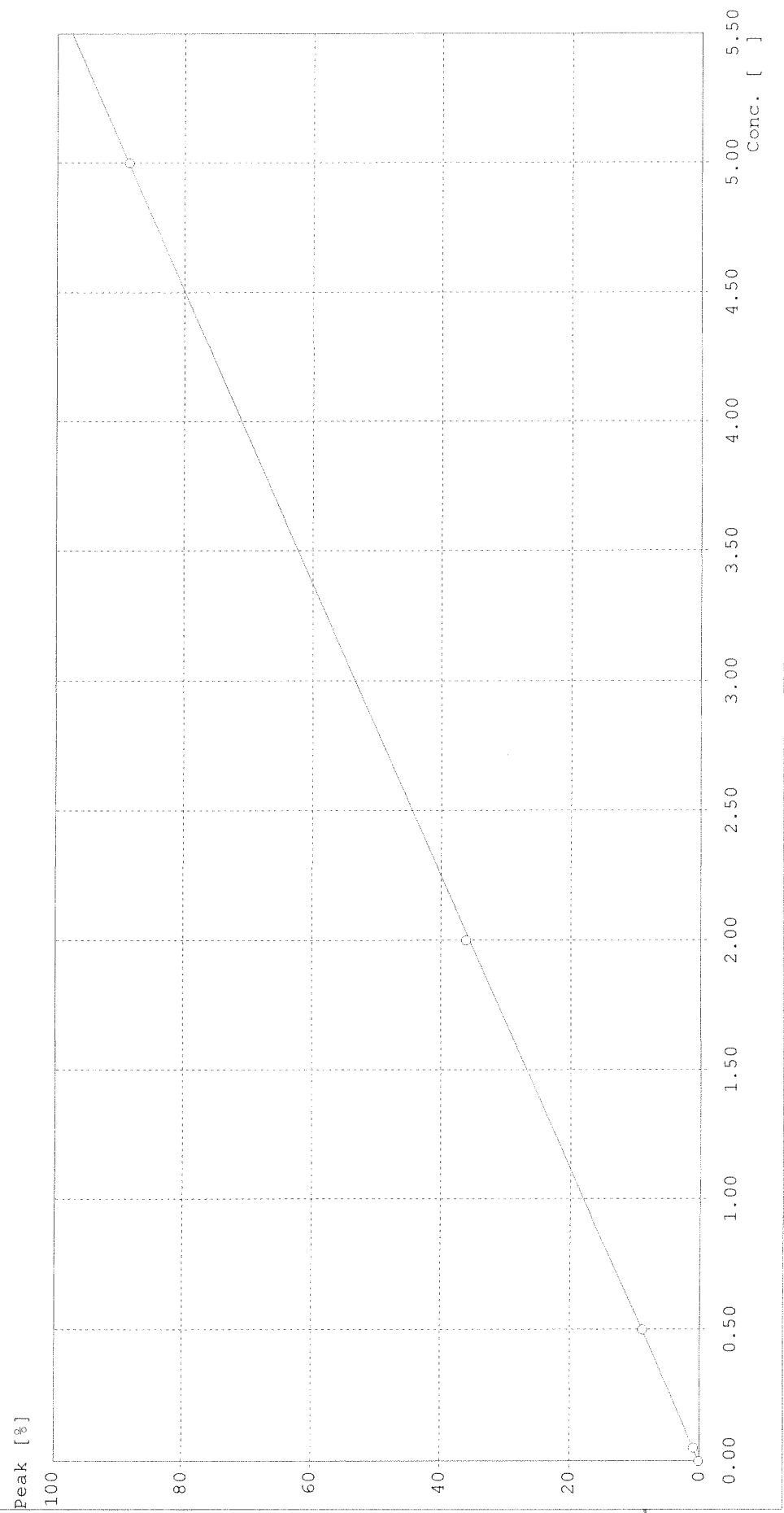
# BRAN+LUEBBE

Calibration Curve

Name of analysis : Nitrite.ANL

Name of run : 101002B.run  
Comment :

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.8746E-001      b=8.6077E-005  
Corr. coeff. : 1.0000



10/02/10  
Hewitt

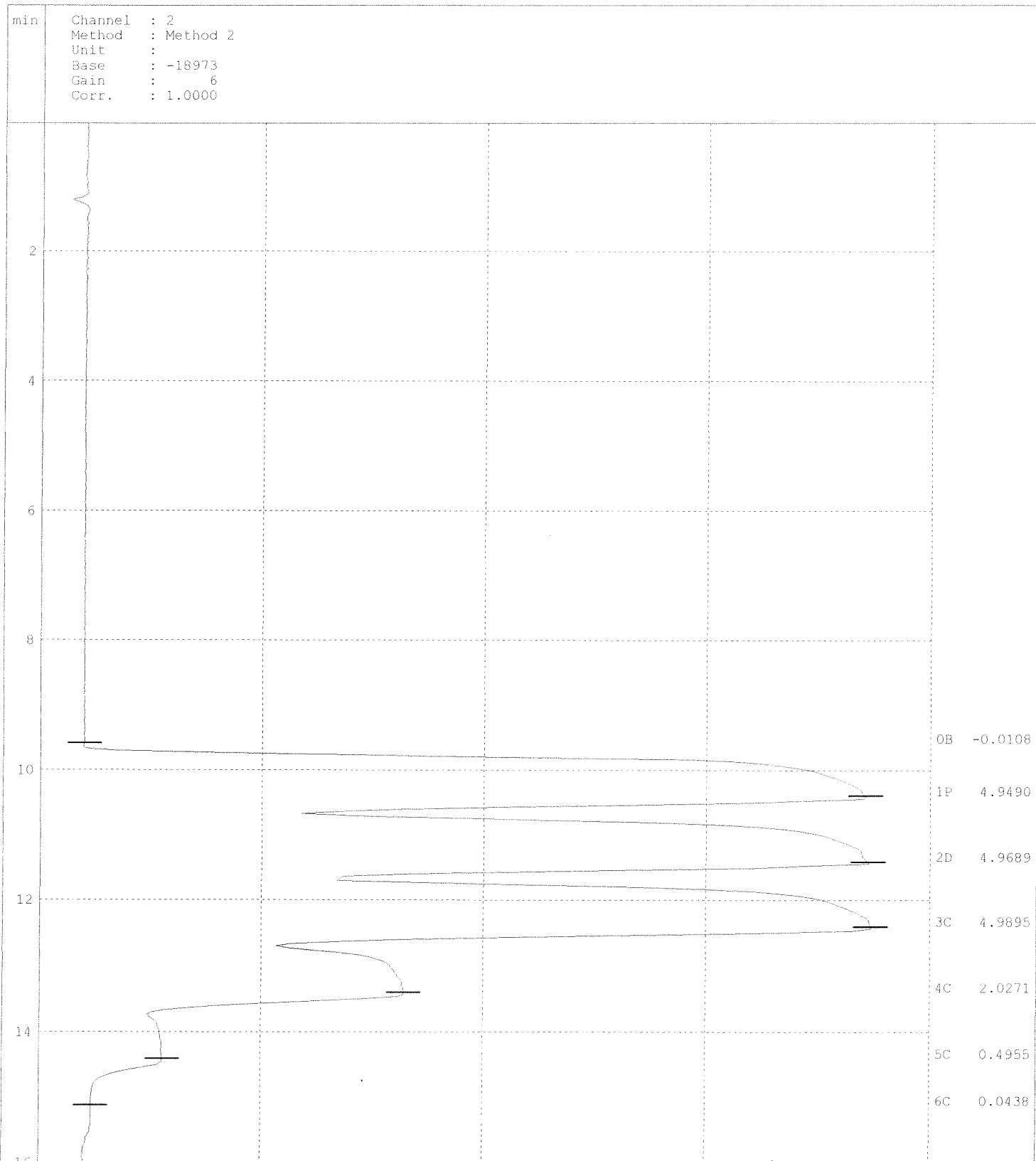
# BRAN+LUEBBE

Post-run chart

Name of run :101002B.RUN

Name of analysis :Nitrite.ANL

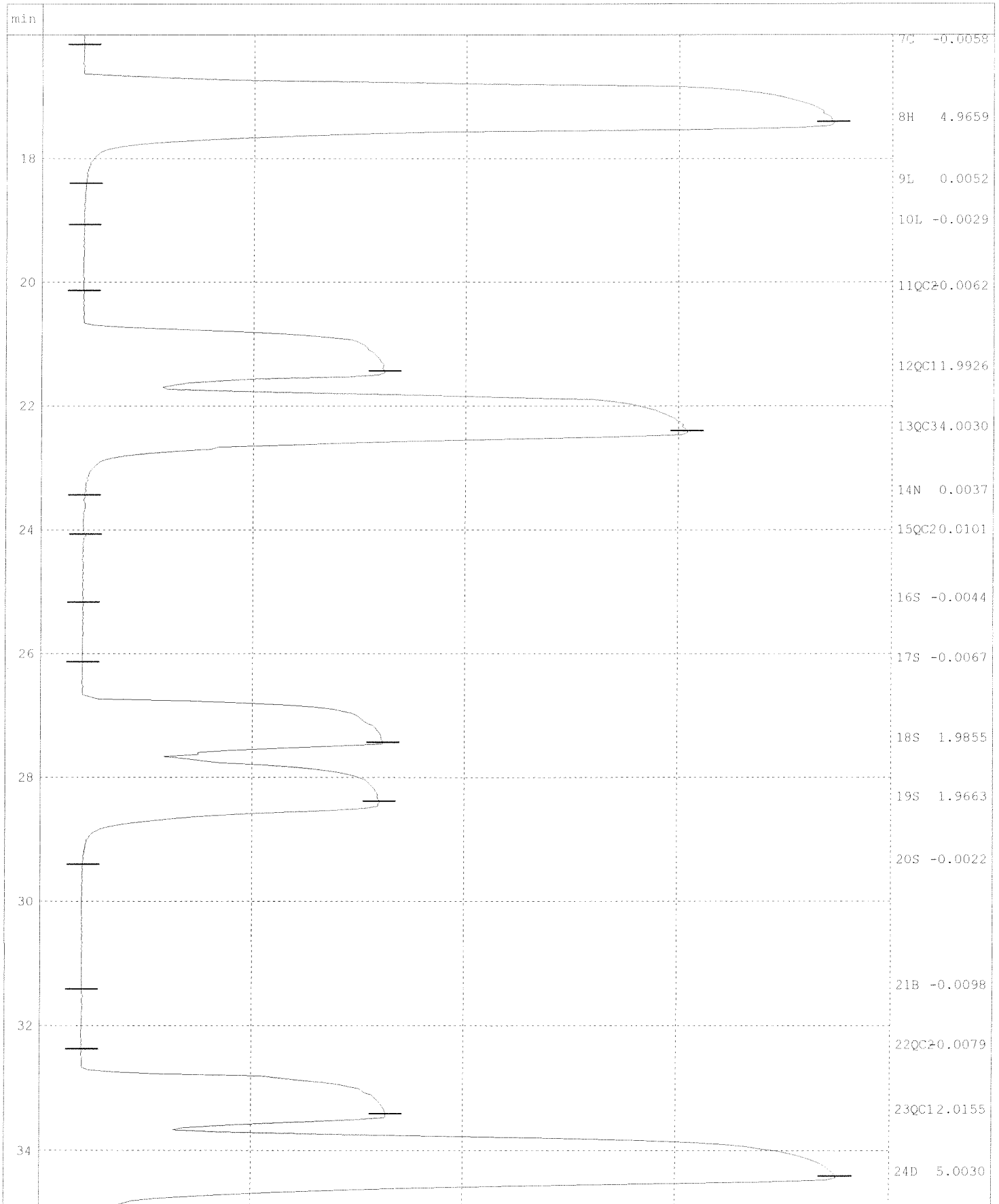
Comment :



*10/02/10  
Hussey*

Name of run :101002B.RUN  
Comment :

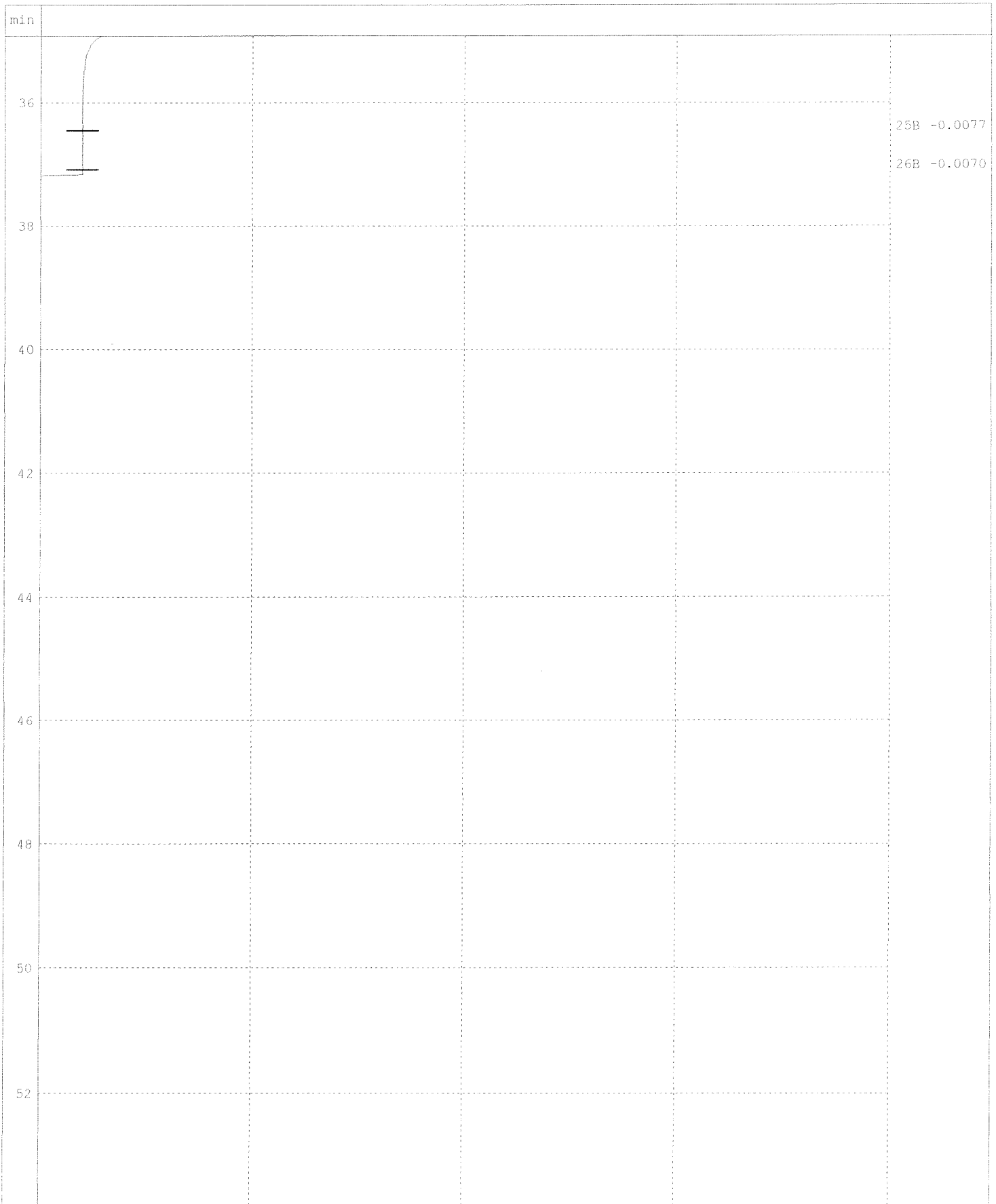
Name of analysis :Nitrite.ANL





Name of run :101002B.RUN  
Comment :

Name of analysis :Nitrite.ANL



Work Request # <sup>Original</sup> (K10735) K10759 K10785 K10795 K10850 ~~K10899~~  
 Tier: II III II III III III  
 Date Analyzed: 10/06/10  
 Analyst: Houyuu  
 Analysis: NO<sub>2</sub>/NO<sub>3</sub> - N - 353.2 219644

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? (yes/no/NA)
2. Holding times met for all analyses and for all samples? (yes/no/NA)
3. Are calculations correct? (yes/no/NA)
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? (yes/no/NA)
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? (yes/no/NA)
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? (yes/no/NA)
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? (yes/no/NA)
  - d. Are results for methods blanks all ND? (yes/no/NA)
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) (yes/no/NA)
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? (yes/no/NA)
7. Are all samples labelled correctly? (yes/no/NA)
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) (yes/no/NA)
9. Are detection limits and units reported correctly? (yes/no/NA)
10. Are proper Analysis/Extraction stickers included on report? (yes/no/NA)
11. Is the unused space on the benchsheet crossed out? (yes/no/NA)
12. Was analysis turned in by the due date? (n-2) (If not record SR#) (yes/no/NA)

**COMMENTS:**

Final Approved by: ju Date: 10/7/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 219644

Method/Testcode: 353.2/NO2 NO3 T

h Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
010735-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.09 mg/L	5 mL	0.087 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010735-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.083 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010735-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.078 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010735-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010759-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.64 mg/L	5 mL	1.64 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
010759-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010759-004	Nitrate+Nitrite as Nitrogen	N/A		Water	3.25 mg/L	5 mL	3.25 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010759-006	Nitrate+Nitrite as Nitrogen	N/A		Water	1.65 mg/L	5 mL	1.65 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
010759-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.032 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010759-008	Nitrate+Nitrite as Nitrogen	N/A		Water	3.71 mg/L	5 mL	3.71 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-001	Nitrate+Nitrite as Nitrogen	N/A		Water	2.23 mg/L	5 mL	1.12 mg/L	50	0.5	2.5			10/6/10 11:12:00	N
010785-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.54 mg/L	5 mL	0.536 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.93 mg/L	5 mL	0.929 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.20 mg/L	5 mL	0.198 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-005	Nitrate+Nitrite as Nitrogen	N/A		Water	0.17 mg/L	5 mL	0.170 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-006	Nitrate+Nitrite as Nitrogen	N/A		Water	0.21 mg/L	5 mL	0.206 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.29 mg/L	5 mL	0.288 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-008	Nitrate+Nitrite as Nitrogen	N/A		Water	0.38 mg/L	5 mL	0.379 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010785-009	Nitrate+Nitrite as Nitrogen	N/A		Water	2.21 mg/L	5 mL	1.10 mg/L	50	0.5	2.5			10/6/10 11:12:00	N
010795-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.99 mg/L	5 mL	4.95 mg/L	5	0.05	0.25			10/6/10 11:12:00	N
010795-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.44 mg/L	5 mL	14.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
010795-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.051 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010850-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.79 mg/L	5 mL	8.97 mg/L	5	0.05	0.25			10/6/10 11:12:00	N
010850-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.77 mg/L	5 mL	17.7 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
010850-003	Nitrate+Nitrite as Nitrogen	N/A		Water	4.20 mg/L	5 mL	42.0 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
010850-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.045 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
010899-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.26 mg/L	5 mL	31.4 mg/L	25	0.3	1.3			10/6/10 11:12:00	N
010899-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.043 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-01	Nitrate+Nitrite as Nitrogen	MS	K1010735-001	Water	2.01 mg/L	5 mL	2.01 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-02	Nitrate+Nitrite as Nitrogen	DMS	K1010735-001	Water	2.03 mg/L	5 mL	2.03 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-03	Nitrate+Nitrite as Nitrogen	DUP	K1010735-001	Water	0.09 mg/L	5 mL	0.095 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-04	Nitrate+Nitrite as Nitrogen	MS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
21010818-05	Nitrate+Nitrite as Nitrogen	DMS	K1010850-001	Water	2.84 mg/L	5 mL	28.4 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
21010818-06	Nitrate+Nitrite as Nitrogen	DUP	K1010850-001	Water	1.79 mg/L	5 mL	8.94 mg/L	5	0.05	0.25			10/6/10 11:12:00	N
21010818-07	Nitrate+Nitrite as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-08	Nitrate+Nitrite as Nitrogen	MB		Water	0.03 mg/L	5 mL	0.029 mg/L	1	0.009	0.050			10/6/10 11:12:00	N
21010818-09	Nitrate+Nitrite as Nitrogen	LCS		Water	1.40 mg/L	5 mL	14.0 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
21010818-10	Nitrate+Nitrite as Nitrogen	LCS		Water	1.41 mg/L	5 mL	14.1 mg/L	10	0.09	0.50			10/6/10 11:12:00	N
21010818-11	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			10/6/10 11:12:00	N

Indicates: Final Result is not yet adjusted for Solids because it has not yet been determined.

10/6/10  
Thanganu

# Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU


Analysis Lot: 219644

Method/Testcode: 353.2/NO2 NO3 T

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
21010818-12	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-13	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-14	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-15	Nitrate+Nitrite as Nitrogen	CCB		Water	0.05 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-16	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			10/6/10 11:12:00	N II
21010818-17	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-18	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-19	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-20	Nitrate+Nitrite as Nitrogen	CCV		Water	1.91 mg/L	5 mL	1.91 mg/L	1	96%				10/6/10 11:12:00	N II
21010818-21	Nitrate+Nitrite as Nitrogen	CCV		Water	1.93 mg/L	5 mL	1.93 mg/L	1	97%				10/6/10 11:12:00	N II
21010818-22	Nitrate+Nitrite as Nitrogen	CCV		Water	1.92 mg/L	5 mL	1.92 mg/L	1	96%				10/6/10 11:12:00	N II

Spike = 0.1 mL x 100 ppw / 5 mL = 2.00 ppw (K10735)  
 Spike = 0.1 mL x 100 ppw / 0.5 mL = 20.0 ppw (K10850)

LOS ID#: B+LNH<sub>3</sub>/- 35-A      T.V. = 14.8  
 Spike ID#: B+LNH<sub>3</sub>/- 97-M      T.V. = 2.00 / 20.0  
 Curve, CEV ID#: B+LNH<sub>3</sub>/- 86-P      T.V. = 0.50  
 I CV ID#: B+LNH<sub>3</sub>/- 69-N      T.V. = 2.00  
 MS MS = 2.00

10/06/10  


Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

K10735, K10759, K10785, K10795, K10850, K10899

# BRAN+LUEBBE

Post-run report

Name of Run : 101006B  
Date of Report : 10/6/2010  
Date of Run : 10/6/2010  
Operator :  
Comment :  
Name of Analysis : NO2+NO3.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 11:12 - 12:43

Channel : 2  
Method : Method 2  
Unit : mg/L  
Calibr. Fit : Linear  
Corr. Coeff. : 0.9998  
Base : -19118  
Gain : 6  
Sensitivity : 1.5544  
Sample Limit 1 :  
Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0192
1	1	P primer	5.0069
2	1	D Drift	5.0018
3	1	C 5.00	5.0242
4	2	C 2.00	1.9379
5	3	C 0.50	0.4927
6	4	C 0.05	0.0710
7	5	C 0	0.0241
8	1	H1 High	5.0223
9	0	L1 Low	0.0249
10	0	L1 Low	0.0250
11	9	QC3 ICV	1.9210
12	5	QC2 ICB	0.0249
13	5	QC2 CCB1	0.0229
14	2	QC1 CCV1	1.9220
15	10	QC4 LCS1*10	1.4014
16	11	S MB MS	1.9396
17	0	N Null	0.0574N
18	5	QC2 MB1	0.0244
19	12	S k1010735-001	0.0873
20	13	S k1010735-001d	0.0948
21	14	S k1010735-001ms	2.0112
22	15	S k1010735-001msd	2.0349
23	16	S k1010735-002	0.0830
24	0	B Baseline	0.0192
25	5	QC2 CCB2	0.0231
26	2	QC1 CCV2	1.9190

10/7/10  
10/06/10  
Haugen

27	17	S	k1010735-003	0.0782
28	18	S	k1010735-004	0.0270
29	19	S	k1010759-002*10	1.6355
30	20	S	k1010759-003	0.0285
31	21	S	k1010759-004	3.2544
32	22	S	k1010759-006*10	1.6453
33	23	S	k1010759-007	0.0321
34	24	S	k1010759-008	3.7125
35	25	S	k1010785-001*50	2.2323
36	0	B	Baseline	0.0192
37	5	QC2	CCB3	0.0315
38	2	QC1	CCV3	1.9176
39	26	S	k1010785-002	0.5363
40	27	S	k1010785-003	0.9294
41	28	S	k1010785-004	0.1980
42	29	S	k1010785-005	0.1696
43	30	S	k1010785-006	0.2058
44	31	S	k1010785-007	0.2877
45	32	S	k1010785-008	0.3793
46	33	S	k1010785-009*50	2.2092
47	34	S	k1010795-001*5 diss	0.9899
48	0	B	Baseline	0.0192
49	5	QC2	CCB4	0.0250
50	2	QC1	CCV4	1.9081
51	10	QC4	LCS2*10	1.4055
52	0	N	Null	0.0271N
53	5	QC2	MB2	0.0293
54	35	S	k1010795-002*10 dis	1.4377
55	36	S	k1010795-003 diss.	0.0506
56	37	S	k1010850-001*5diss.	1.7938
57	38	S	k1010850-001d*5diss	1.7874
58	39	S	k1010850-001ms*10 diss.	2.8394
59	40	S	k1010850-001msd*10 diss.	2.8425
60	0	B	Baseline	0.0192
61	5	QC2	CCB5	0.0463
62	2	QC1	CCV5	1.9255
63	41	S	k1010850-002*10diss	1.7721
64	42	S	k1010850-003*10 dis	4.1980
65	43	S	k1010850-004 diss.	0.0452
66	44	S	k1010899-001*25diss	1.2559
67	45	S	k1010899-002 diss.	0.0427
68	0	B	Baseline	0.0192
69	5	QC2	CCB6	0.0342
70	2	QC1	CCV6	1.9237
71	1	D	Drift	5.0018
72	0	B	Baseline	0.0192
73	0	B	FinalBase	0.0192

## QC Limits

Channel	:	2
QC 1	Unused	

10/06/10  
*Frank*  
 10/7/10

QC 2 Unused  
QC 3 Unused  
QC 4 Unused  
QC 5 Unused  
QC 6 Unused  
QC 7 Unused  
QC 8 Unused  
QC 9 Unused  
QC10 Unused

---

CORRECTIONS

Channel : 2  
Baseline : Yes  
Drift : Yes  
Carry over : Yes  
%: 0.3

---

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

*10/06/10  
Haugen  
M 10/7/10*

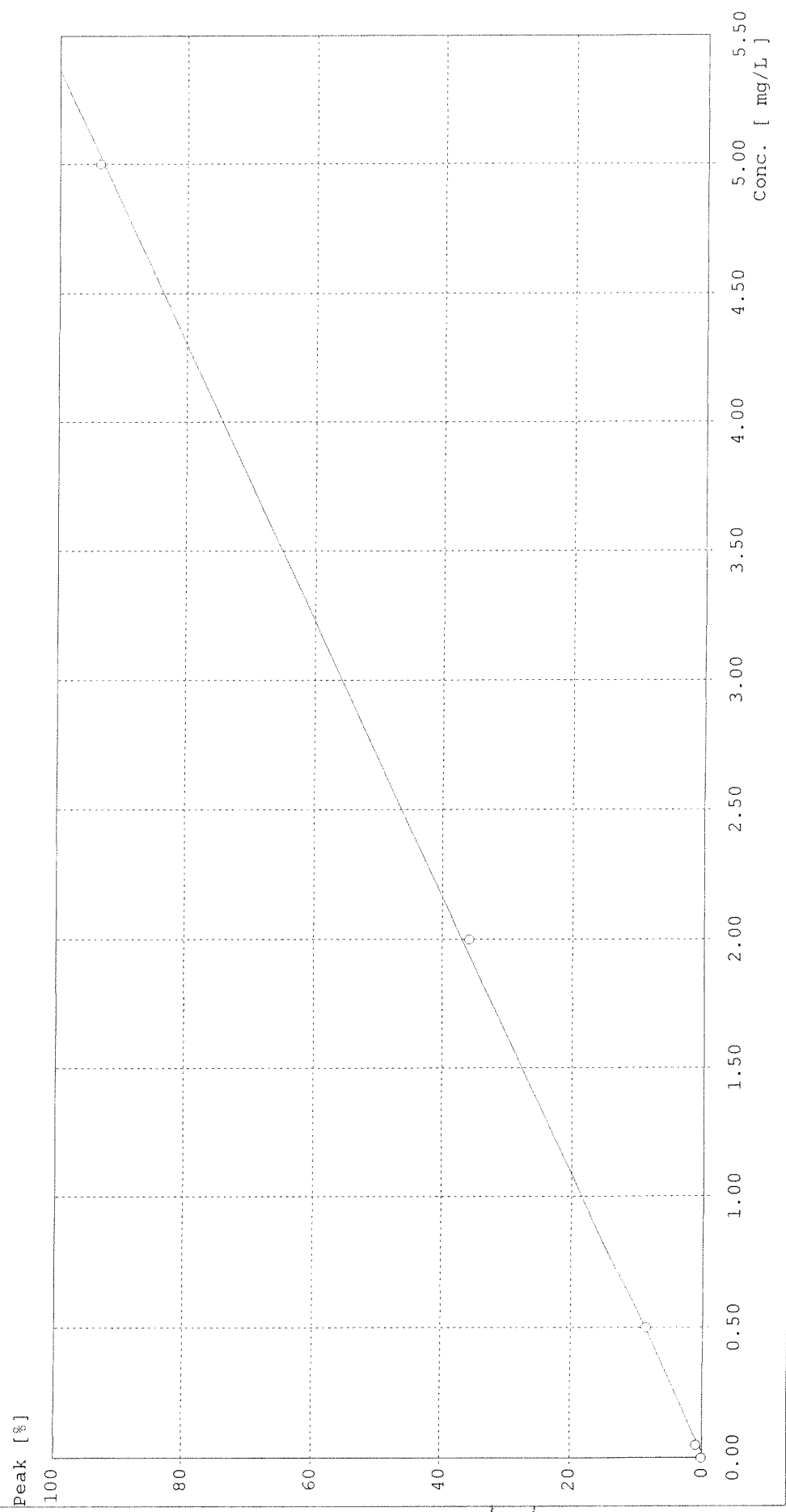
# BRAN+LUEBBE

Calibration Curve

Name of run : 101006B.run  
Comment :

Name of analysis : NO2+NO3.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear  
Corr. coeff. : 0.9998  
a=-2.3814E-001 b=8.1599E-005



10/06/10  
Hungrer

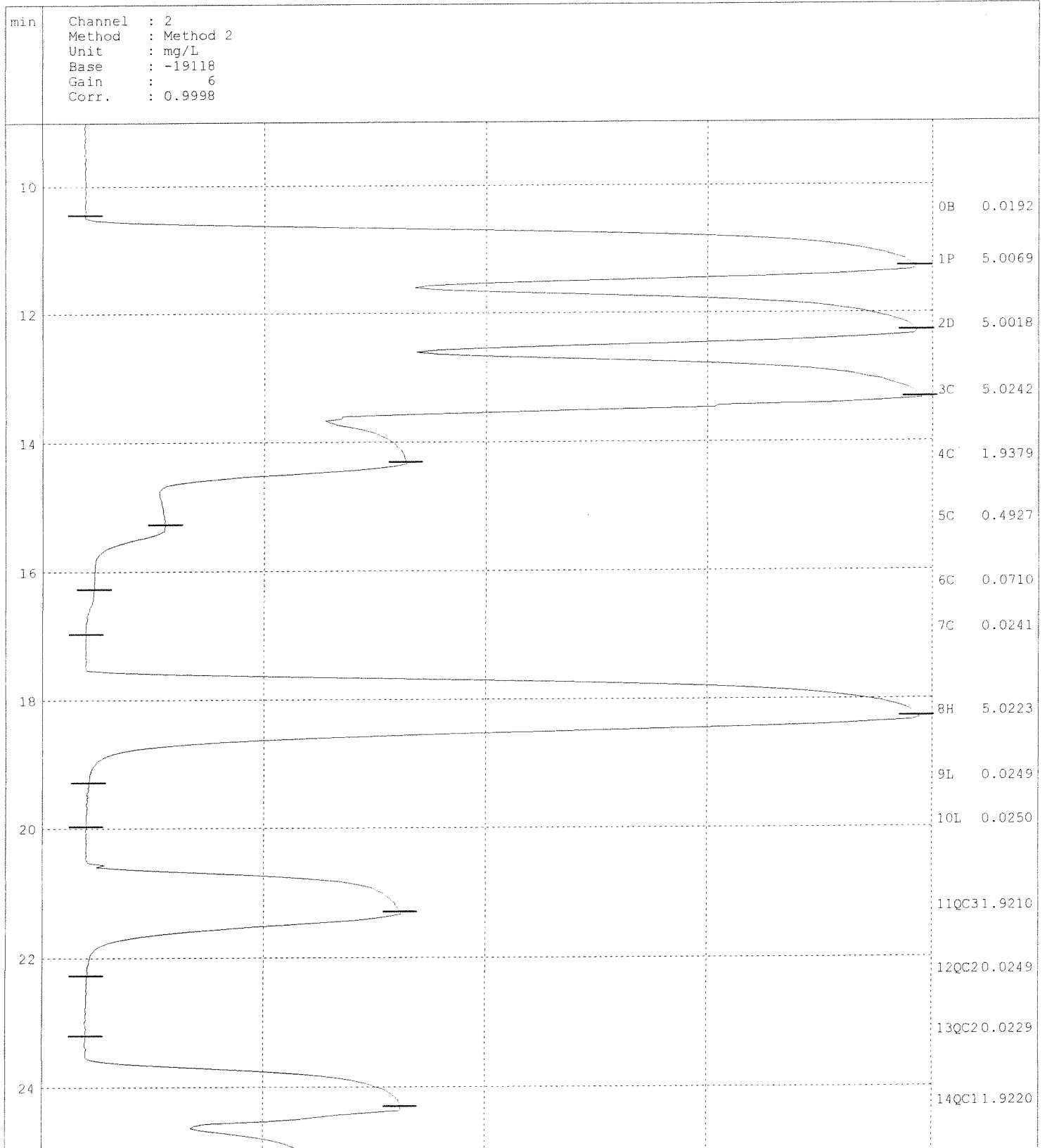


# BRAN+LUEBBE

Post-run chart

Name of run :101006B.RUN  
Comment :

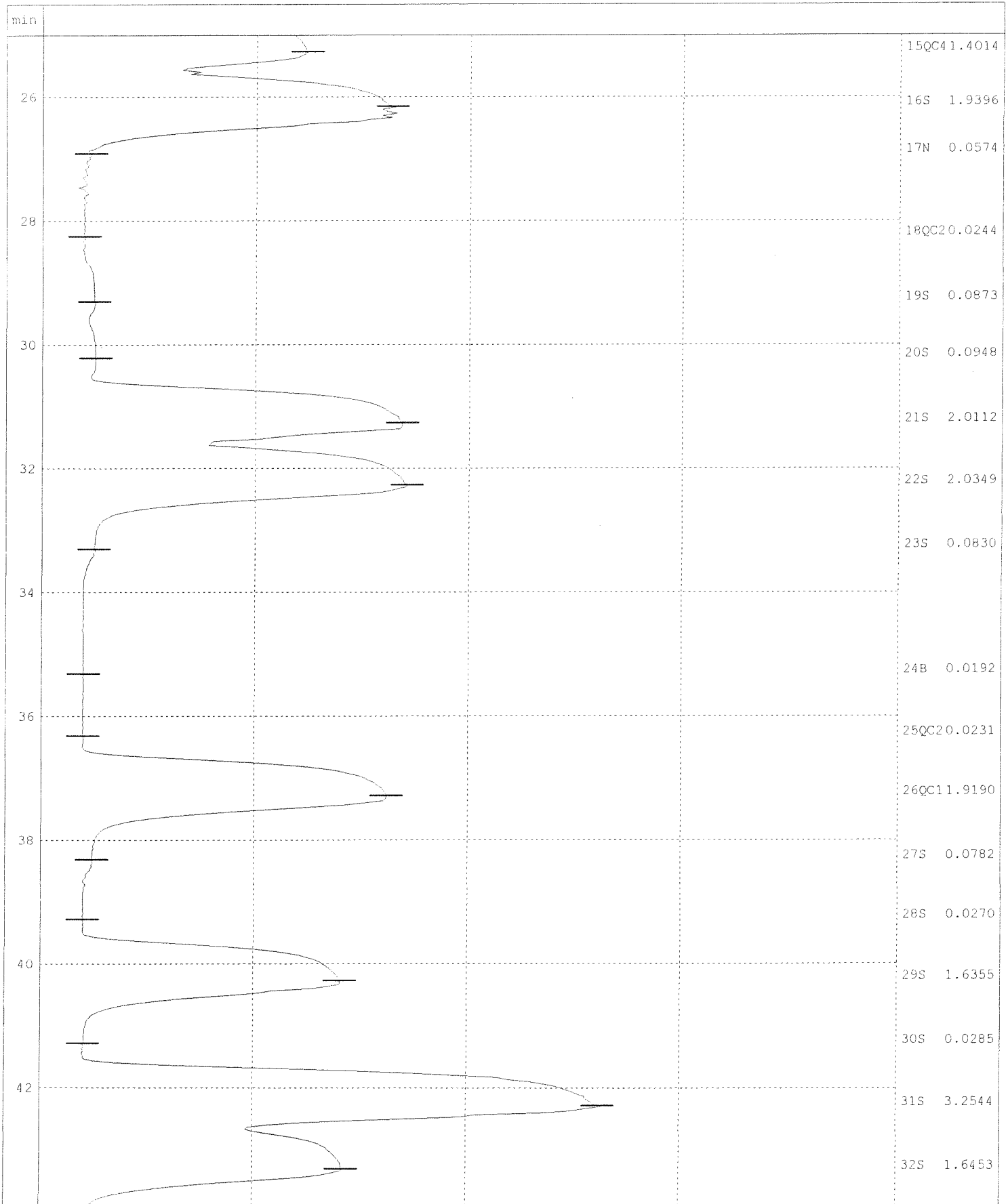
Name of analysis :NO2+NO3.ANL



*10/06/10*  
*Thuy*

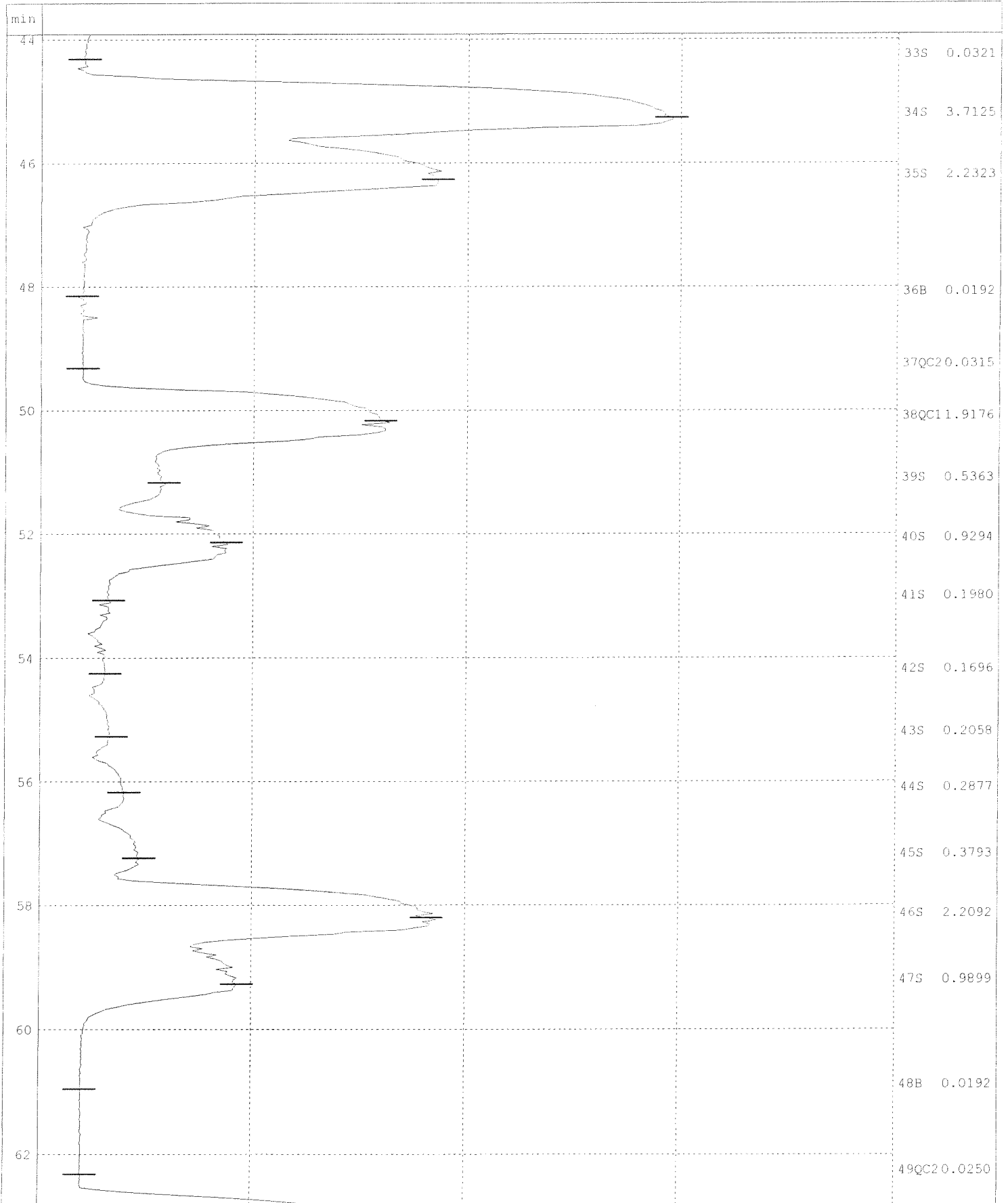
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



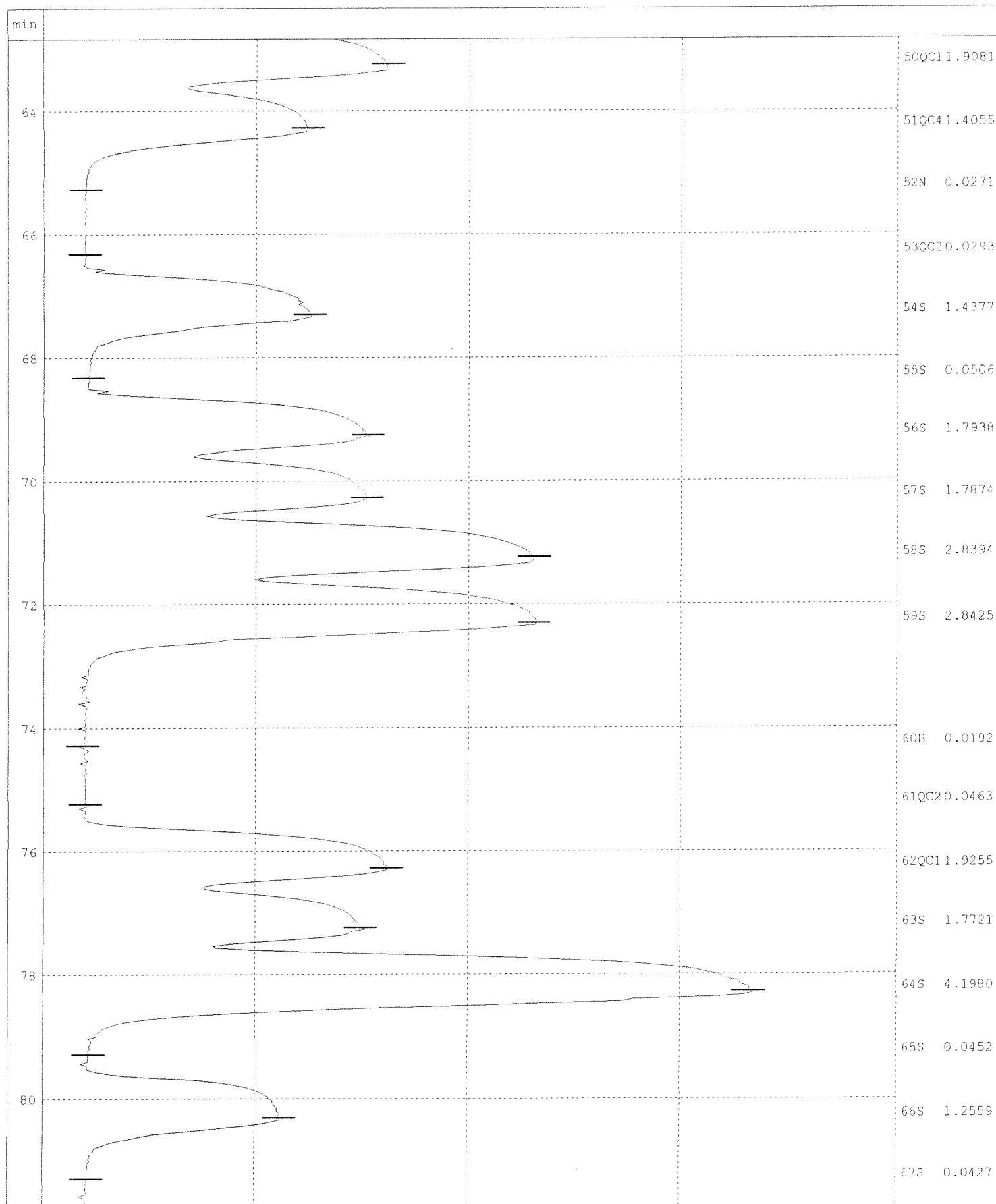
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



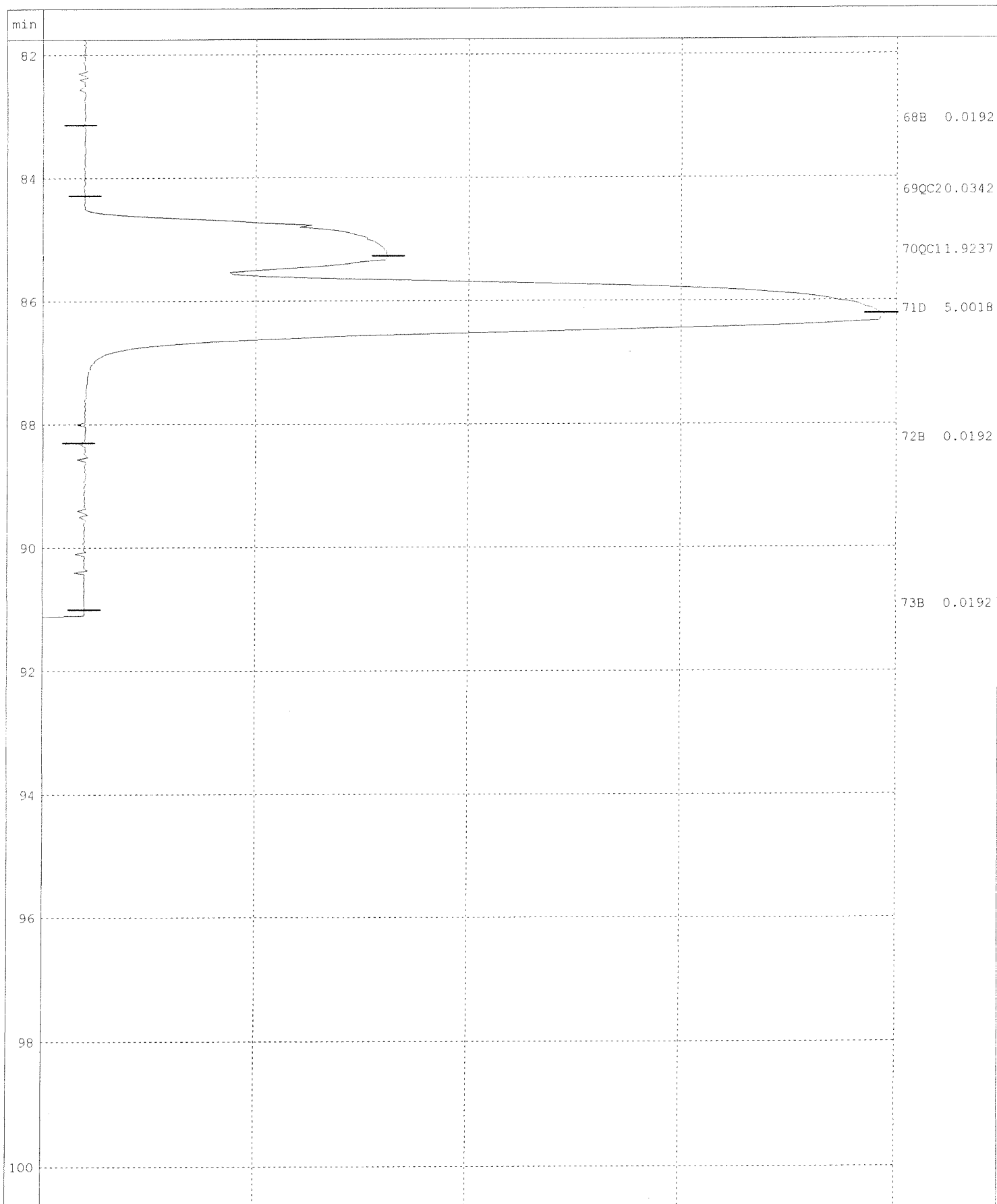
Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Name of run :101006B.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Work Request # ( <sup>Original /</sup> 785 ) 899, 790, 892, 931<sup>7</sup>

Tier: II III II I I

Date Analyzed: 10/5/10

Analyst: CV

Analysis: ALK auto titrator

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes/no/NA
- 2. Holding times met for all analyses and for all samples?  yes/no/NA
- 3. Are calculations correct?  yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
- 5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
- 6. Are all service requests that apply attached?  yes/no/NA
- 7. Are all samples labelled correctly?  yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
- 9. Are detection limits and units reported correctly?  yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
- 11. Is the unused space on the benchsheet crossed out?  yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

220596

Final Approved by: BAK Date: 10/12/10 DQREPORT

2/16/10

Run Date

219548

Date: ~~10/06/2010~~ 10/5/10 Run Date  
 RunID = Z1005101124  
 InstrumentID = SN=1234A  
 Site Name = Your Company Name Here  
 Analyst = ACCQWE  
 Test Name/ID = ALK  
 Titrant Name/ID = HCl 0.02N Ricca lot#1002358  
 Standard(s) Name/ID = LCS TV=97.4 ERA lot#S164-698

TestID	LIMS ID	Meth	Smpl	pH	SmplVol	SmplResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	RunID	InstID
ALK	MB-1	3	1	5.62	30	5.6014	ppmf	0.168 mL (151.0 mV)	59.11	04839	10-05-10	12:21	ACCQWE	Z1005101124	SN=123
ALK	LCS-1	3	2	9.00	30	59.577	ppmf	1.786 mL (-73.7 mV)	59.11	04839	10-05-10	12:24	ACCQWE	Z1005101124	SN=123
ALK	LCS-1	3	2	9.00	30	101.41	ppmf	3.039 mL (151.0 mV)	59.11	04839	10-05-10	12:24	ACCQWE	Z1005101124	SN=123
ALK	K1010785-001.x3	3	3	9.04	30	29.808	ppmf	0.893 mL (-73.7 mV)	59.11	04839	10-05-10	12:30	ACCQWE	Z1005101124	SN=123
ALK	K1010785-001.x3	3	3	9.04	30	263.95	ppmf	7.911 mL (151.0 mV)	59.11	04839	10-05-10	12:30	ACCQWE	Z1005101124	SN=123
ALK	K1010785-002.01	3	4	6.65	30	72.021	ppmf	2.159 mL (151.0 mV)	59.11	04839	10-05-10	12:40	ACCQWE	Z1005101124	SN=123
ALK	K1010785-003.01	3	5	6.98	30	98.647	ppmf	2.957 mL (151.0 mV)	59.11	04839	10-05-10	12:45	ACCQWE	Z1005101124	SN=123
ALK	K1010785-003.d	3	6	6.96	30	98.754	ppmf	2.960 mL (151.0 mV)	59.11	04839	10-05-10	12:50	ACCQWE	Z1005101124	SN=123
ALK	K1010785-004.01	3	7	7.51	30	84.036	ppmf	2.519 mL (151.0 mV)	59.11	04839	10-05-10	12:56	ACCQWE	Z1005101124	SN=123
ALK	K1010785-005.01	3	8	7.82	30	109.99	ppmf	3.297 mL (151.0 mV)	59.11	04839	10-05-10	13:01	ACCQWE	Z1005101124	SN=123
ALK	K1010785-006.01	3	9	7.39	30	73.537	ppmf	2.204 mL (151.0 mV)	59.11	04839	10-05-10	13:07	ACCQWE	Z1005101124	SN=123
ALK	K1010785-007.01	3	10	7.39	30	96.806	ppmf	2.902 mL (151.0 mV)	59.11	04839	10-05-10	13:12	ACCQWE	Z1005101124	SN=123
ALK	K1010785-008.01	3	11	6.91	30	42.430	ppmf	1.272 mL (151.0 mV)	59.11	04839	10-05-10	13:17	ACCQWE	Z1005101124	SN=123
ALK	K1010785-009.01	3	12	9.02	30	89.111	ppmf	2.671 mL (-73.7 mV)	59.11	04839	10-05-10	13:21	ACCQWE	Z1005101124	SN=123
ALK	K10108939-001.10	3	13	6.99	30	178.40	ppmf	5.347 mL (151.0 mV)	59.11	04839	10-05-10	13:47	ACCQWE	Z1005101124	SN=123
ALK	K10108939-002.10	3	14	5.79	30	5.8466	ppmf	0.175 mL (151.0 mV)	59.11	04839	10-05-10	13:54	ACCQWE	Z1005101124	SN=123
ALK	K1010790-004.02	3	15	7.25	30	229.55	ppmf	6.880 mL (151.0 mV)	59.11	04839	10-05-10	13:57	ACCQWE	Z1005101124	SN=123
ALK	K1010790-005.02	3	16	7.48	30	217.47	ppmf	6.518 mL (151.0 mV)	59.11	04839	10-05-10	14:07	ACCQWE	Z1005101124	SN=123
ALK	K1010790-006.02	3	17	7.49	30	526.78	ppmf	15.789 mL (151.0 mV)	59.11	04839	10-05-10	14:16	ACCQWE	Z1005101124	SN=123
ALK	K1010790-007.02	3	18	7.36	30	436.95	ppmf	13.097 mL (151.0 mV)	59.11	04839	10-05-10	14:35	ACCQWE	Z1005101124	SN=123
ALK	K1010790-008.02	3	19	7.25	30	662.61	ppmf	19.860 mL (151.0 mV)	59.11	04839	10-05-10	14:52	ACCQWE	Z1005101124	SN=123
ALK	MB-2	3	20	6.07	30	6.2806	ppmf	0.188 mL (151.0 mV)	59.11	04839	10-05-10	15:16	ACCQWE	Z1005101124	SN=123
ALK	LCS-2	3	21	8.98	30	54.325	ppmf	1.628 mL (-73.7 mV)	59.11	04839	10-05-10	15:19	ACCQWE	Z1005101124	SN=123
ALK	LCS-2	3	21	8.98	30	95.965	ppmf	2.876 mL (151.0 mV)	59.11	04839	10-05-10	15:19	ACCQWE	Z1005101124	SN=123
ALK	K1010892-009.x2	3	22	8.14	30				59.11	04839	10-05-10	15:25	ACCQWE	Z1005101124	SN=123
ALK	K1010892-008.x2	3	23	8.16	30				59.11	04839	10-05-10	15:50	ACCQWE	Z1005101124	SN=123
ALK	K1010892-008.x2	3	24	8.21	30				59.11	04839	10-05-10	16:15	ACCQWE	Z1005101124	SN=123
ALK	K1010931-005.11	3	25	8.01	30	187.78	ppmf	5.628 mL (151.0 mV)	59.11	04839	10-05-10	16:40	ACCQWE	Z1005101124	SN=123
ALK	K1010892-001.06	3	26	6.68	30	40.146	ppmf	1.203 mL (151.0 mV)	59.11	04839	10-05-10	16:48	ACCQWE	Z1005101124	SN=123
ALK	K1010892-002.06	3	27	6.59	30	47.324	ppmf	1.418 mL (151.0 mV)	59.11	04839	10-05-10	16:52	ACCQWE	Z1005101124	SN=123
ALK	K1010892-003.06	3	28	6.26	30	15.042	ppmf	0.451 mL (151.0 mV)	59.11	04839	10-05-10	16:56	ACCQWE	Z1005101124	SN=123
ALK	K1010892-004.06	3	29	6.71	30	130.76	ppmf	3.919 mL (151.0 mV)	59.11	04839	10-05-10	16:59	ACCQWE	Z1005101124	SN=123
ALK	K1010892-005.06	3	30	7.13	30	77.333	ppmf	2.318 mL (151.0 mV)	59.11	04839	10-05-10	17:06	ACCQWE	Z1005101124	SN=123

\* Na - analyze low level PDL 10/12/10

- low level  
 - high level  
 2/16

very high level

Test ID	LIMS ID	Meth	Smpl	pH	SmplVol	SmplResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Inst ID
Alk	K1010892-006.06	3	31	8.17	30	118.90	ppmf	3.564 mL (151.0 mV)	59.11	04839	10-05-10	17:10	ACQWE	Z1005101124	SN=123
Alk	K1010892-007.06	3	32	7.27	30	73.480	ppmf	2.202 mL (151.0 mV)	59.11	04839	10-05-10	17:17	ACQWE	Z1005101124	SN=123
Alk	K1010785-009.x2	3	33	9.02	30	43.033	ppmf	1.290 mL (73.7 mV)	59.11	04839	10-05-10	17:22	ACQWE	Z1005101124	SN=123
Alk	K1010785-009.x2	3	33	9.02	30	425.43	ppmf	12.752 mL (151.0 mV)	59.11	04839	10-05-10	17:22	ACQWE	Z1005101124	SN=123

$LES - 100 Rec = 104$   
 $785 - 3 \bar{x} = 98,7$   
 $RPO = < 1$   
 $LES - 2\% Rec = 99$   
 892-8 didn't fit trade as a duplicate  
 so 20 from the beginning can be used

219598