ANALYTICAL REPORT

Job Number: 160-561-1

Job Description: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, CO 80235

Attention: Mr. Paul Rosasco

Approved for release.
Lynn M Fussner
Project Manager I
9/17/2012 5:59 PM

Lynn M Fussner
Project Manager I
lynn.fussner@testamericainc.com
09/17/2012
Revision: 1

cc: Ms. Lyn Fitzgerald

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. Pursuant to NELAP, this report shall not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager.

The Lab Certification ID# is E87689.

TestAmerica Laboratories, Inc.
TestAmerica St. Louis 13715 Rider Trail North, Earth City, MO 63045
Tel (314) 298-8566 Fax (314) 298-8757 www.testamericainc.com

30287439

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Sample Summary 5
- Executive Summary 6
- Method Summary 7
- Method / Analyst Summary 8
- Sample Datasheets 9
- QC Data Summary 17
- Data Qualifiers 19
- QC Association Summary 20
- Lab Chronicle 21
- Reagent Traceability 23
- Certification Summary 24

Inorganic Sample Data 25

- General Chemistry Data 25
  - Gen Chem Cover Page 26
  - Gen Chem Sample Data 27
  - Gen Chem QC Data 35
    - Gen Chem ICV/CCV 35
    - Gen Chem Blanks 36
    - Gen Chem MS/MSD/PDS 37
    - Gen Chem LCS/LCSD 39
  - Gen Chem MDL 40
  - Gen Chem Analysis Run Log 42
  - Gen Chem Raw Data 44

Table of Contents

Gen Chem Prep Data 142

Shipping and Receiving Documents 144

Sample Receipt Checklist 145

CASE NARRATIVE
Client: Engineering Management Support, Inc.
Project: West Lake Landfill
Report Number: 160-561-1

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

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

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 09/04/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

ANIONS

Samples PZ-303-AS (160-561-1), D-13 (160-561-2), PZ-304-AS (160-561-3), I-67 (160-561-4), PZ-304-AI (160-561-5), I-66 (160-561-6), DUP-06 (160-561-7) and MW-103 (160-561-8) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 09/11/2012.

Samples PZ-303-AS (160-561-1)[50X], D-13 (160-561-2)[10X], D-13 (160-561-2)[50X], PZ-304-AS (160-561-3)[200X], I-67 (160-561-4)[10X], I-67 (160-561-4)[100X], PZ-304-AI (160-561-5)[200X], I-66 (160-561-6)[50X], DUP-06 (160-561-7)[10X], DUP-06 (160-561-7)[50X] and MW-103 (160-561-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples were re-analyzed outside the method defined holding time because the newly requested anion analysis was made after the holding time expired for Cl, NO3, and SO4: D-13 (160-561-2), DUP-06 (160-561-7), I-66 (160-561-6), I-67 (160-561-4), MW-103 (160-561-8), PZ-303-AS (160-561-1), PZ-304-AI (160-561-5), PZ-304-AS (160-561-3).

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
160-561-1	PZ-303-AS	Water	08/10/2012 0955	09/04/2012 1052
160-561-2	D-13	Water	08/10/2012 0958	09/04/2012 1052
160-561-3	PZ-304-AS	Water	08/10/2012 1040	09/04/2012 1052
160-561-4	I-67	Water	08/10/2012 1113	09/04/2012 1052
160-561-5	PZ-304-AI	Water	08/10/2012 1145	09/04/2012 1052
160-561-6	I-66	Water	08/10/2012 1217	09/04/2012 1052
160-561-7	DUP-06	Water	08/10/2012 1200	09/04/2012 1052
160-561-8	MW-103	Water	08/11/2012 1050	09/04/2012 1052

EXECUTIVE SUMMARY - Detections

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
160-561-1	**PZ-303-AS**					
Chloride		69	H	10	mg/L	300.0
Sulfate		2.3	H	0.50	mg/L	300.0
160-561-2	**D-13**					
Chloride		70	H	10	mg/L	300.0
Sulfate		36	H	5.0	mg/L	300.0
160-561-3	**PZ-304-AS**					
Chloride		350	H	40	mg/L	300.0
Sulfate		1.2	H	0.50	mg/L	300.0
160-561-4	**I-67**					
Nitrate as N		0.14	H	0.020	mg/L	300.0
Chloride		170	H	20	mg/L	300.0
Sulfate		96	H	5.0	mg/L	300.0
160-561-5	**PZ-304-AI**					
Nitrate as N		0.038	H	0.020	mg/L	300.0
Chloride		350	H	40	mg/L	300.0
Sulfate		15	H	0.50	mg/L	300.0
160-561-6	**I-66**					
Nitrate as N		0.040	H	0.020	mg/L	300.0
Chloride		41	H	10	mg/L	300.0
Sulfate		110	H	25	mg/L	300.0
160-561-7	**DUP-06**					
Nitrate as N		0.040	H	0.020	mg/L	300.0
Chloride		82	H	10	mg/L	300.0
Sulfate		35	H	5.0	mg/L	300.0
160-561-8	**MW-103**					
Nitrate as N		0.17	H	0.020	mg/L	300.0
Chloride		11	H	2.0	mg/L	300.0
Sulfate		26	H	5.0	mg/L	300.0

METHOD SUMMARY

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Anions, Ion Chromatography	TAL SL	MCAWW 300.0	

Lab References:

TAL SL = TestAmerica St. Louis

Method References:

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

METHOD / ANALYST SUMMARY

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Method	Analyst	Analyst ID
MCAWW 300.0	Boyd, Jacob	JB

General Chemistry

Client Sample ID: **PZ-303-AS**

Lab Sample ID: 160-561-1 Date Sampled: 08/10/2012 0955
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1731						
Chloride	69	H	mg/L	1.0	10	50	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1747						
Sulfate	2.3	H	mg/L	0.050	0.50	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1731						

General Chemistry

Client Sample ID: **D-13**

Lab Sample ID: 160-561-2 Date Sampled: 08/10/2012 0958
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1802						
Chloride	70	H	mg/L	1.0	10	50	300.0
Run Type: DL2 Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1833						
Sulfate	36	H	mg/L	0.50	5.0	10	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1817						

General Chemistry

Client Sample ID: **PZ-304-AS**

Lab Sample ID: 160-561-3 Date Sampled: 08/10/2012 1040
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1848						
Chloride	350	H	mg/L	4.0	40	200	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1904						
Sulfate	1.2	H	mg/L	0.050	0.50	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1848						

General Chemistry

Client Sample ID: **I-67**

Lab Sample ID: 160-561-4 Date Sampled: 08/10/2012 1113
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.14	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 1950						
Chloride	170	H	mg/L	2.0	20	100	300.0
Run Type: DL2 Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2021						
Sulfate	96	H	mg/L	0.50	5.0	10	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2005						

General Chemistry

Client Sample ID: **PZ-304-AI**

Lab Sample ID: 160-561-5 Date Sampled: 08/10/2012 1145
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.038	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2036						
Chloride	350	H	mg/L	4.0	40	200	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2052						
Sulfate	15	H	mg/L	0.050	0.50	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2036						

General Chemistry

Client Sample ID: **I-66**

Lab Sample ID: 160-561-6 Date Sampled: 08/10/2012 1217
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.040	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2107						
Chloride	41	H	mg/L	1.0	10	50	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2122						
Sulfate	110	H	mg/L	2.5	25	50	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2122						

General Chemistry

Client Sample ID: **DUP-06**

Lab Sample ID: 160-561-7 Date Sampled: 08/10/2012 1200
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.040	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2138						
Chloride	82	H	mg/L	1.0	10	50	300.0
Run Type: DL2 Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2209						
Sulfate	35	H	mg/L	0.50	5.0	10	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2153						

General Chemistry

Client Sample ID: **MW-103**

Lab Sample ID: 160-561-8 Date Sampled: 08/11/2012 1050
Client Matrix: Water Date Received: 09/04/2012 1052

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.17	H	mg/L	0.0040	0.020	1.0	300.0
Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2255						
Chloride	11	H	mg/L	0.20	2.0	10	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2310						
Sulfate	26	H	mg/L	0.50	5.0	10	300.0
Run Type: DL Analysis Batch: 160-10927	Analysis Date: 09/11/2012 2310						

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Method Blank - Batch: 160-10927 **Method: 300.0**
Preparation: N/A

Lab Sample ID:	MB 160-10927/9	Analysis Batch:	160-10927	Instrument ID:	IC1500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	108.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/11/2012 1700	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	ND		0.0040	0.020
Chloride	ND		0.020	0.20
Sulfate	ND		0.050	0.50

Lab Control Sample - Batch: 160-10927 **Method: 300.0**
Preparation: N/A

Lab Sample ID:	LCS 160-10927/10	Analysis Batch:	160-10927	Instrument ID:	IC1500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	109.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/11/2012 1716	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.400	0.402	100	90 - 110	
Chloride	2.00	2.03	102	90 - 110	
Sulfate	8.00	7.53	94	90 - 110	

Client: Engineering Management Support, Inc.

Job Number: 160-561-1

Matrix Spike - Batch: 160-10927

Method: 300.0
Preparation: N/A

Lab Sample ID:	160-561-8	Analysis Batch:	160-10927	Instrument ID:	IC1500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	133.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/11/2012 2326	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.17	0.400	0.592	106	90 - 110	

Matrix Spike - Batch: 160-10927

Method: 300.0
Preparation: N/A

Lab Sample ID:	160-561-8DL	Analysis Batch:	160-10927	Instrument ID:	IC1500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	134.TXT
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/11/2012 2341	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A	Run Type:	DL		
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	11	20.0	32.2	103	90 - 110	
Sulfate	26	40.0	63.1	94	90 - 110	

DATA REPORTING QUALIFIERS

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Lab Section	Qualifier	Description
General Chemistry		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Client: Engineering Management Support, Inc.

Job Number: 160-561-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:160-10927					
LCS 160-10927/10	Lab Control Sample	T	Water	300.0	
MB 160-10927/9	Method Blank	T	Water	300.0	
160-561-1	PZ-303-AS	T	Water	300.0	
160-561-1DL	PZ-303-AS	T	Water	300.0	
160-561-2	D-13	T	Water	300.0	
160-561-2DL	D-13	T	Water	300.0	
160-561-2DL2	D-13	T	Water	300.0	
160-561-3	PZ-304-AS	T	Water	300.0	
160-561-3DL	PZ-304-AS	T	Water	300.0	
160-561-4	I-67	T	Water	300.0	
160-561-4DL	I-67	T	Water	300.0	
160-561-4DL2	I-67	T	Water	300.0	
160-561-5	PZ-304-AI	T	Water	300.0	
160-561-5DL	PZ-304-AI	T	Water	300.0	
160-561-6	I-66	T	Water	300.0	
160-561-6DL	I-66	T	Water	300.0	
160-561-7	DUP-06	T	Water	300.0	
160-561-7DL	DUP-06	T	Water	300.0	
160-561-7DL2	DUP-06	T	Water	300.0	
160-561-8	MW-103	T	Water	300.0	
160-561-8DL	MW-103	T	Water	300.0	
160-561-8MS	Matrix Spike	T	Water	300.0	
160-561-8MSDL	Matrix Spike	T	Water	300.0	
160-573-A-5 MSD	Matrix Spike Duplicate	T	Water	300.0	
160-573-A-5 MSD ^10DL	Matrix Spike Duplicate	T	Water	300.0	

Report Basis

T = Total

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Laboratory Chronicle

Lab ID: 160-561-1 **Client ID:** PZ-303-AS

Sample Date/Time: 08/10/2012 09:55 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-1		160-10927		09/11/2012 17:31	1	TAL SL	JB
A:300.0	160-561-A-1 ^50	DL	160-10927		09/11/2012 17:47	50	TAL SL	JB

Lab ID: 160-561-2 **Client ID:** D-13

Sample Date/Time: 08/10/2012 09:58 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-2		160-10927		09/11/2012 18:02	1	TAL SL	JB
A:300.0	160-561-A-2 ^10	DL	160-10927		09/11/2012 18:17	10	TAL SL	JB
A:300.0	160-561-A-2 ^50	DL2	160-10927		09/11/2012 18:33	50	TAL SL	JB

Lab ID: 160-561-3 **Client ID:** PZ-304-AS

Sample Date/Time: 08/10/2012 10:40 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-3		160-10927		09/11/2012 18:48	1	TAL SL	JB
A:300.0	160-561-A-3 ^200	DL	160-10927		09/11/2012 19:04	200	TAL SL	JB

Lab ID: 160-561-4 **Client ID:** I-67

Sample Date/Time: 08/10/2012 11:13 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-4		160-10927		09/11/2012 19:50	1	TAL SL	JB
A:300.0	160-561-A-4 ^10	DL	160-10927		09/11/2012 20:05	10	TAL SL	JB
A:300.0	160-561-A-4 ^100	DL2	160-10927		09/11/2012 20:21	100	TAL SL	JB

Lab ID: 160-561-5 **Client ID:** PZ-304-AI

Sample Date/Time: 08/10/2012 11:45 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-5		160-10927		09/11/2012 20:36	1	TAL SL	JB
A:300.0	160-561-A-5 ^200	DL	160-10927		09/11/2012 20:52	200	TAL SL	JB

Lab ID: 160-561-6 **Client ID:** I-66

Sample Date/Time: 08/10/2012 12:17 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-6		160-10927		09/11/2012 21:07	1	TAL SL	JB
A:300.0	160-561-A-6 ^50	DL	160-10927		09/11/2012 21:22	50	TAL SL	JB

Client: Engineering Management Support, Inc. Job Number: 160-561-1

Laboratory Chronicle

Lab ID: 160-561-7 **Client ID:** DUP-06

Sample Date/Time: 08/10/2012 12:00 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-7		160-10927		09/11/2012 21:38	1	TAL SL	JB
A:300.0	160-561-A-7 ^10	DL	160-10927		09/11/2012 21:53	10	TAL SL	JB
A:300.0	160-561-A-7 ^50	DL2	160-10927		09/11/2012 22:09	50	TAL SL	JB

Lab ID: 160-561-8 **Client ID:** MW-103

Sample Date/Time: 08/11/2012 10:50 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-8		160-10927		09/11/2012 22:55	1	TAL SL	JB
A:300.0	160-561-A-8 ^10	DL	160-10927		09/11/2012 23:10	10	TAL SL	JB

Lab ID: 160-561-8 MS **Client ID:** MW-103

Sample Date/Time: 08/11/2012 10:50 Received Date/Time: 09/04/2012 10:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-561-A-8 MS		160-10927		09/11/2012 23:26	1	TAL SL	JB
A:300.0	160-561-A-8 MS ^10	DL	160-10927		09/11/2012 23:41	10	TAL SL	JB

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MB 160-10927/9		160-10927		09/11/2012 17:00	1	TAL SL	JB

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCS 160-10927/10		160-10927		09/11/2012 17:16	1	TAL SL	JB

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	160-573-A-5 MSD		160-10927		09/12/2012 03:32	1	TAL SL	JB
A:300.0	160-573-A-5 MSD ^10	DL	160-10927		09/12/2012 03:48	10	TAL SL	JB

Lab References:
TAL SL = TestAmerica St. Louis

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
IC 2nd Source_00002	08/28/13	Inorganic Ventures, Lot D2-MEB430132			(Purchased Reagent)		Chloride	5000 ug/L
							Nitrate as N	1000 ug/L
							Sulfate	20000 ug/L
IC Cal High_00007	08/28/13	Inorganic Ventures, Lot E2-MEB433119			(Purchased Reagent)		Chloride	5000 ug/L
							Nitrate as N	1000 ug/L
							Sulfate	20000 ug/L
IC MS Soln_00002	02/07/13	Inorganic Ventures, Lot F2-MEB408149			(Purchased Reagent)		Chloride	100 ug/mL
							Nitrate as N	20 ug/mL
							Sulfate	200 ug/mL

Certification Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-561-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica St. Louis	Alaska	State Program	10	MO54-08
TestAmerica St. Louis	California	NELAC	9	2542
TestAmerica St. Louis	Connecticut	State Program	1	PH-0241
TestAmerica St. Louis	Florida	NELAC	4	E87689
TestAmerica St. Louis	Illinois	NELAC	5	200023
TestAmerica St. Louis	Iowa	State Program	7	373
TestAmerica St. Louis	Kansas	NELAC	7	E-10236
TestAmerica St. Louis	Kentucky	State Program	4	90125
TestAmerica St. Louis	L-A-B	DoD ELAP		L2305
TestAmerica St. Louis	Louisiana	NELAC	6	106151
TestAmerica St. Louis	Louisiana	NELAC	6	LA070016
TestAmerica St. Louis	Maryland	State Program	3	310
TestAmerica St. Louis	Missouri	State Program	7	780
TestAmerica St. Louis	Nevada	State Program	9	MO000542009A
TestAmerica St. Louis	New Jersey	NELAC	2	MO002
TestAmerica St. Louis	New York	NELAC	2	11616
TestAmerica St. Louis	NRC	NRC		24-24817-01
TestAmerica St. Louis	Pennsylvania	NELAC	3	68-00540
TestAmerica St. Louis	South Carolina	State Program	4	85002
TestAmerica St. Louis	Texas	NELAC	6	T104704193-08A-TX
TestAmerica St. Louis	USDA	Federal		P330-07-00122
TestAmerica St. Louis	USEPA Reg V SDWA	Federal	1	N/A
TestAmerica St. Louis	Utah	NELAC	8	QUAN4
TestAmerica St. Louis	Virginia	NELAC	3	460230
TestAmerica St. Louis	Washington	State Program	10	C1310
TestAmerica St. Louis	West Virginia DEP	State Program	3	381

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job Number: 160-561-1

SDG No.:

Project: West Lake Landfill

Client Sample ID	Lab Sample ID
PZ-303-AS	160-561-1
PZ-303-AS	160-561-1 DL
D-13	160-561-2
D-13	160-561-2 DL
D-13	160-561-2 DL2
PZ-304-AS	160-561-3
PZ-304-AS	160-561-3 DL
I-67	160-561-4
I-67	160-561-4 DL
I-67	160-561-4 DL2
PZ-304-AI	160-561-5
PZ-304-AI	160-561-5 DL
I-66	160-561-6
I-66	160-561-6 DL
DUP-06	160-561-7
DUP-06	160-561-7 DL
DUP-06	160-561-7 DL2
MW-103	160-561-8
MW-103	160-561-8 DL

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ-303-AS
Lab Sample ID: 160-561-1
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 09:55
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	69	10	1.0	mg/L		H	50	300.0
14808-79-8	Sulfate	2.3	0.50	0.050	mg/L		H	1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: D-13
Lab Sample ID: 160-561-2
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 09:58
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	70	10	1.0	mg/L		H	50	300.0
14808-79-8	Sulfate	36	5.0	0.50	mg/L		H	10	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ-304-AS
Lab Sample ID: 160-561-3
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 10:40
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	350	40	4.0	mg/L		H	200	300.0
14808-79-8	Sulfate	1.2	0.50	0.050	mg/L		H	1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: I-67
Lab Sample ID: 160-561-4
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 11:13
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.14	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	170	20	2.0	mg/L		H	100	300.0
14808-79-8	Sulfate	96	5.0	0.50	mg/L		H	10	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ-304-AI
Lab Sample ID: 160-561-5
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 11:45
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.038	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	350	40	4.0	mg/L		H	200	300.0
14808-79-8	Sulfate	15	0.50	0.050	mg/L		H	1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: I-66
Lab Sample ID: 160-561-6
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 12:17
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.040	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	41	10	1.0	mg/L		H	50	300.0
14808-79-8	Sulfate	110	25	2.5	mg/L		H	50	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP-06
Lab Sample ID: 160-561-7
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/10/2012 12:00
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.040	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	82	10	1.0	mg/L		H	50	300.0
14808-79-8	Sulfate	35	5.0	0.50	mg/L		H	10	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-103
Lab Sample ID: 160-561-8
Lab Name: TestAmerica St. Louis
Job No.: 160-561-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 10:50
Reporting Basis: WET
Date Received: 09/04/2012 10:52

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.17	0.020	0.0040	mg/L		H	1	300.0
16887-00-6	Chloride	11	2.0	0.20	mg/L		H	10	300.0
14808-79-8	Sulfate	26	5.0	0.50	mg/L		H	10	300.0

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Analyst: JB Batch Start Date: 09/11/2012

Reporting Units: mg/L Analytical Batch No.: 10927

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	16:30	Nitrate as N	0.391	0.400	98	90-110		IC 2nd Source_00002
			Chloride	1.96	2.00	98	90-110		IC 2nd Source_00002
			Sulfate	7.56	8.00	95	90-110		IC 2nd Source_00002
8	ICB	16:45	Nitrate as N	ND					
			Chloride	ND					
			Sulfate	ND					
18	CCV	19:19	Nitrate as N	0.417	0.400	104	90-110		IC Cal High_00007
			Chloride	1.97	2.00	99	90-110		IC Cal High_00007
			Sulfate	7.66	8.00	96	90-110		IC Cal High_00007
19	CCB	19:34	Nitrate as N	ND					
			Chloride	ND					
			Sulfate	ND					
30	CCV	22:24	Nitrate as N	0.414	0.400	103	90-110		IC Cal High_00007
			Chloride	1.88	2.00	94	90-110		IC Cal High_00007
			Sulfate	7.93	8.00	99	90-110		IC Cal High_00007
31	CCB	22:39	Nitrate as N	ND					
			Chloride	ND					
			Sulfate	ND					
42	CCV	01:29	Nitrate as N	0.423	0.400	106	90-110		IC Cal High_00007
			Chloride	2.04	2.00	102	90-110		IC Cal High_00007
			Sulfate	7.59	8.00	95	90-110		IC Cal High_00007
43	CCB	01:44	Nitrate as N	ND					
			Chloride	0.0260				J	
			Sulfate	ND					
52	CCV	04:03	Nitrate as N	0.384	0.400	96	90-110		IC Cal High_00007
			Chloride	2.07	2.00	104	90-110		IC Cal High_00007
			Sulfate	7.81	8.00	98	90-110		IC Cal High_00007
53	CCB	04:18	Nitrate as N	ND					
			Chloride	ND					
			Sulfate	ND					

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 10927	Date: 09/11/2012 17:00						
300.0	MB 160-10927/9	Nitrate as N	ND		mg/L	0.020	1
300.0	MB 160-10927/9	Chloride	ND		mg/L	0.20	1
300.0	MB 160-10927/9	Sulfate	ND		mg/L	0.50	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 10927	Date: 09/11/2012 23:26										
300.0	160-561-8	Nitrate as N	0.17		mg/L						H
300.0	160-561-8 MS	Nitrate as N	0.592		mg/L	0.400	106	90-110			
Batch ID: 10927	Date: 09/11/2012 23:41										
300.0	160-561-8	Chloride	11		mg/L						H
300.0	160-561-8 MS DL	Chloride	32.2		mg/L	20.0	103	90-110			
300.0	160-561-8	Sulfate	26		mg/L						H
300.0	160-561-8 MS DL	Sulfate	63.1		mg/L	40.0	94	90-110			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 10927	Date: 09/12/2012 03:32										
300.0	160-573-A-5 MSD	Nitrate as N	0.436		mg/L	0.400	109	90-110	4	20	
Batch ID: 10927	Date: 09/12/2012 03:48										
300.0	160-573-A-5 MSD ^10 DL	Chloride	34.9		mg/L	20.0	94	90-110	7	20	
300.0	160-573-A-5 MSD ^10 DL	Sulfate	123		mg/L	40.0	103	90-110	2	20	

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

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 10927	Date: 09/11/2012 17:16										
						LCS Source:	IC 2nd Source_00002				
300.0	LCS 160-10927/10	Nitrate as N	0.402		mg/L	0.400	100	90-110			
300.0	LCS 160-10927/10	Chloride	2.03		mg/L	2.00	102	90-110			
300.0	LCS 160-10927/10	Sulfate	7.53		mg/L	8.00	94	90-110			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job Number: 160-561-1

SDG Number:

Matrix: Water Instrument ID: IC1500

Method: 300.0 MDL Date: 01/18/2012 14:04

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.2	0.02
Nitrate as N		0.02	0.004
Sulfate		0.5	0.05

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job Number: 160-561-1

SDG Number:

Matrix: Water Instrument ID: IC1500

Method: 300.0 XMDL Date: 01/18/2012 14:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.2	0.02
Nitrate as N		0.02	0.004
Sulfate		0.5	0.05

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Instrument ID: IC1500 Method: 300.0

Start Date: 09/11/2012 14:57 End Date: 09/12/2012 06:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	NO3	SO4																	
IC 160-10927/1			14:57	X	X	X																	
IC 160-10927/2			15:13	X	X	X																	
IC 160-10927/3			15:28	X	X	X																	
IC 160-10927/4			15:43	X	X	X																	
IC 160-10927/5			15:59	X	X	X																	
IC 160-10927/6			16:14	X	X	X																	
ICV 160-10927/7	1		16:30	X	X	X																	
ICB 160-10927/8	1		16:45	X	X	X																	
MB 160-10927/9	1	T	17:00	X	X	X																	
LCS 160-10927/10	1	T	17:16	X	X	X																	
160-561-1	1	T	17:31		X	X																	
160-561-1 DL	50	T	17:47	X																			
160-561-2	1	T	18:02		X																		
160-561-2 DL	10	T	18:17			X																	
160-561-2 DL2	50	T	18:33	X																			
160-561-3	1	T	18:48		X	X																	
160-561-3 DL	200	T	19:04	X																			
CCV 160-10927/18	1		19:19	X	X	X																	
CCB 160-10927/19	1		19:34	X	X	X																	
160-561-4	1	T	19:50		X																		
160-561-4 DL	10	T	20:05			X																	
160-561-4 DL2	100	T	20:21	X																			
160-561-5	1	T	20:36		X	X																	
160-561-5 DL	200	T	20:52	X																			
160-561-6	1	T	21:07		X																		
160-561-6 DL	50	T	21:22	X		X																	
160-561-7	1	T	21:38		X																		
160-561-7 DL	10	T	21:53			X																	
160-561-7 DL2	50	T	22:09	X																			
CCV 160-10927/30	1		22:24	X	X	X																	
CCB 160-10927/31	1		22:39	X	X	X																	
160-561-8	1	T	22:55		X																		
160-561-8 DL	10	T	23:10	X		X																	
160-561-8 MS	1	T	23:26		X																		
160-561-8 MS DL	10	T	23:41	X		X																	
ZZZZZZ			23:56																				
ZZZZZZ			00:12																				
ZZZZZZ			00:27																				
ZZZZZZ			00:43																				
ZZZZZZ			00:58																				
ZZZZZZ			01:13																				
CCV 160-10927/42	1		01:29	X	X	X																	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Instrument ID: IC1500 Method: 300.0

Start Date: 09/11/2012 14:57 End Date: 09/12/2012 06:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	NO3	SO4																	
CCB 160-10927/43	1		01:44	X	X	X																	
ZZZZZZ			02:00																				
ZZZZZZ			02:15																				
ZZZZZZ			02:31																				
ZZZZZZ			02:46																				
ZZZZZZ			03:01																				
ZZZZZZ			03:17																				
160-573-A-5 MSD	1	T	03:32		X																		
160-573-A-5 MSD ^10 DL	10	T	03:48	X		X																	
CCV 160-10927/52	1		04:03	X	X	X																	
CCB 160-10927/53	1		04:18	X	X	X																	
ZZZZZZ			04:34																				
ZZZZZZ			04:49																				
ZZZZZZ			05:05																				
ZZZZZZ			05:20																				
ZZZZZZ			05:35																				
CCV 160-10927/59			05:51																				
CCB 160-10927/60			06:06																				

Prep Types

T = Total/NA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica St. Louis
Data Review Checklist
Ion Chromatography
Method 300.0/9056A

Lot(s): 561-1, 573-1	NCMs: 1) 1937 - out of Hold 2) 1938 - Dilutions
Batch #(s): 10927	Run Date: 9/11/12
Due Date: 9/17/12	Instrument ID: ICICS1500

	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC 1. Instrument calibrated (if applicable) using a blank and the required minimum number of calibration standards?	✓			✓
2. Is the initial calibration curve correlation coefficient ≥ 0.995?	✓			✓
3. ICV/CCV analyzed at the appropriate frequency and within control limits?	✓			✓
4. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
5. Calibration curve is updated in the method with the correct retention times?	✓			✓
B. Sample Results 1. Samples with concentration > the linear range or affected by interferences diluted and reanalyzed? -NCM2	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time? -NCM1	✓ JB 9/14/12	✓		✓
4. All dilutions were checked and verified against the "straight" runs?	✓			✓
C. Preparation/Matrix QC 1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and <RL or CRDL (CLP)?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MS or Dup run at required frequency and RPD within SOP limits? JB 9/14/12	✓			✓
D. Other 1. Are all nonconformances documented appropriately?	✓			✓
2. Current MDL data on file?	✓			✓
3. Calculations checked for error?			✓	✓
4. Were manual integrations checked for appropriateness, correctness and proper documentation (before/after chromatograms, reason, analyst, date?	✓			✓
5. Transcriptions checked for error?	✓			✓
6. All client/project specific requirements met?	✓			✓
7. Date/time of analysis verified as correct?	✓			✓

Analyst: JB Date: 9/14/12
Comments:

2nd Level: KC Date: 9/16/12

WETCHEM ION CHROMATOGRAPHY
QA\Forms\Review\WetChemIon
Revision 2 7/31/12

NCM ID: 160-1937
NCM Type: Holding Time - Requested Late
Lab Section: Wet Chemisty Analysis

Date Opened: 09/14/2012
Date Closed:
Date Verified:

Narrative

The following samples were re-analyzed outside the method defined holding time because the newly requested anion analysis was made after the holding time expired for Cl, NO3, and SO4: <&commaMerge&>.

Affected Items

Description	Project Manager
160-561-A-2	Fussner, Lynn M
160-573-A-5	Fussner, Lynn M
160-573-A-2	Fussner, Lynn M
160-573-A-6	Fussner, Lynn M
160-573-A-7	Fussner, Lynn M
160-561-A-1	Fussner, Lynn M
160-573-A-1	Fussner, Lynn M
160-573-A-4	Fussner, Lynn M
160-561-A-8	Fussner, Lynn M
160-561-A-4	Fussner, Lynn M
160-561-A-7	Fussner, Lynn M
160-561-A-3	Fussner, Lynn M
160-561-A-6	Fussner, Lynn M
160-561-A-5	Fussner, Lynn M
160-573-A-3	Fussner, Lynn M

Notifications

User Full Name	Date Received	Date	Notice Level	Verification Type
Cruz, Fernando	09/14/2012		Level 1	Review

NCM ID: 160-1938
NCM Type: Reporting Limit - Dilution, Target
Lab Section: Wet Chemisty Analysis
Date Opened: 09/14/2012
Date Closed:
Date Verified:

Narrative

The following samples were diluted to bring the concentrations of Chloride and Sulfate within the calibration range in batch 10927: <&commaMerge&>. Elevated reporting limits (RLs) are provided.

Affected Items

Description	Project Manager
160-561-A-3 ^200	Fussner, Lynn M
160-573-A-5 MSD ^10	Fussner, Lynn M
160-573-A-3 ^2	Fussner, Lynn M
160-561-A-2 ^50	Fussner, Lynn M
160-573-A-5 MS ^10	Fussner, Lynn M
160-561-A-7 ^10	Fussner, Lynn M
160-573-A-7 ^100	Fussner, Lynn M
160-561-A-1 ^50	Fussner, Lynn M
160-573-A-1 ^100	Fussner, Lynn M
160-573-A-5 MS ^10	Fussner, Lynn M
160-561-A-6 ^50	Fussner, Lynn M
160-573-A-6 ^5	Fussner, Lynn M
160-561-A-2 ^10	Fussner, Lynn M
160-573-A-5 MSD ^10	Fussner, Lynn M
160-573-A-4 ^5	Fussner, Lynn M
160-561-A-8 MS ^10	Fussner, Lynn M
160-561-A-4 ^100	Fussner, Lynn M
160-561-A-5 ^200	Fussner, Lynn M
160-573-A-2 ^100	Fussner, Lynn M
160-573-A-5 ^10	Fussner, Lynn M
160-561-A-4 ^10	Fussner, Lynn M
160-561-A-7 ^50	Fussner, Lynn M
160-573-A-6 ^50	Fussner, Lynn M
160-561-A-8 ^10	Fussner, Lynn M
160-573-A-5 ^10	Fussner, Lynn M

Notifications

User Full Name	Date Received	Date	Notice Level	Verification Type
Cruz, Fernando	09/14/2012		Level 1	Review

Due: 9/17

TestAmerica St. Louis

Anion Worksheet

Analyst: JB
Date: ~~9/10/12~~ 9/11/12 JB 9/11/12
All result as ppb

Method: 300.0
Instrument: ICICS ~~2500~~ 1500 JB 9/11/12
Batch#: 10927

SOP: ST-WC-0028, Rev. 17

Lot Number	Sample ID	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	Chlorate	Iodide
561-1	561-1		50x			1x		1x		
	561-2		50x			1x		~~1x~~ 10x	JB 9/11/12	
	561-3		200x			1x		1x		
	561-4		100x			1x		10x		
	561-5		200x			1x		1x		
	561-6		50x			1x		50x		
	561-7		50x			1x		10x		
	561-8 •		10x			1x		10x		
573-1	573-1		100x			1x		1x		
	573-2		100x			1x		1x		
	573-3		2x			1x		2x		
	573-4		5x			1x		5x		
	573-5 •		10x			1x		10x		
	573-6		5x			1x		50x		
	573-7		100x			1x		1x		

Form: SL-INORG-0080, Revised 4/15/2011

9/11/12 ICIC S1500 run is pulling from its 9/11/12 Calibration.
DB 9/13/12

Sequence: 091112CAL
Operator: boydj
Printed: 9/13/2012 4:24:42 PM

Title:
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT
Timebase: CLAIRE
#Samples: 61

Created: 9/11/2012 2:04:32 PM by boydj
Last Update: 9/11/2012 5:13:36 PM by boydj

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	CAL 1	Standard	1	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 2:57:39 PM
2	CAL 2	Standard	2	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 3:13:03 PM
3	CAL 3	Standard	3	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 3:28:28 PM
4	CAL 4	Standard	4	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 3:43:52 PM
5	CAL 5	Standard	5	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 3:59:17 PM
6	CAL 6	Standard	6	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 4:14:41 PM
7	ICV	Unknown	7	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 4:30:05 PM
8	ICB	Unknown	8	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 4:45:30 PM
9	BLK	Unknown	9	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 5:00:54 PM
10	LCS	Unknown	10	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 5:16:19 PM
11	561-A-1	Unknown	11	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 5:31:43 PM
12	561-A-1 @50	Unknown	12	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 5:47:08 PM
13	561-A-2	Unknown	13	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 6:02:33 PM
14	561-A-2 @10	Unknown	14	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 6:17:57 PM
15	561-A-2 @50	Unknown	15	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 6:33:22 PM
16	561-A-3	Unknown	16	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 6:48:46 PM
17	561-A-3 @200	Unknown	17	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 7:04:11 PM
18	CCV	Unknown	18	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 7:19:35 PM
19	CCB	Unknown	19	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 7:34:59 PM
20	561-A-4	Unknown	20	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 7:50:25 PM
21	561-A-4 @10	Unknown	21	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 8:05:49 PM
22	561-A-4 @100	Unknown	22	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 8:21:14 PM
23	561-A-5	Unknown	23	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 8:36:39 PM
24	561-A-5 @200	Unknown	24	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 8:52:03 PM
25	561-A-6	Unknown	25	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 9:07:27 PM
26	561-A-6 @50	Unknown	26	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 9:22:51 PM
27	561-A-7	Unknown	27	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 9:38:16 PM
28	561-A-7 @10	Unknown	28	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 9:53:40 PM
29	561-A-7 @50	Unknown	29	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 10:09:05 PM
30	CCV	Unknown	30	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 10:24:29 PM
31	CCB	Unknown	31	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 10:39:53 PM
32	561-A-8	Unknown	32	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 10:55:18 PM
33	561-A-8 @10	Unknown	33	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 11:10:42 PM
34	561-A-8 MS	Unknown	34	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 11:26:06 PM
35	561-A-8 MS @10	Unknown	35	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 11:41:31 PM
36	573-A-1	Unknown	36	50.0	Claire_Routine	STLANIONS	Finished	9/11/2012 11:56:55 PM
37	573-A-1 @100	Unknown	37	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 12:12:20 AM
38	573-A-2	Unknown	38	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 12:27:44 AM
39	573-A-2 @100	Unknown	39	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 12:43:09 AM
40	573-A-3	Unknown	40	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 12:58:33 AM
41	573-A-3 @2	Unknown	41	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 1:13:57 AM
42	CCV	Unknown	42	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 1:29:22 AM

Title:
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT
Timebase: CLAIRE
#Samples: 61

Created: 9/11/2012 2:04:32 PM by boydj
Last Update: 9/11/2012 5:13:36 PM by boydj

No.	Name	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	CAL 1	1.0000	1.0000	1.0000	100	091112CLAIRE	
2	CAL 2	1.0000	1.0000	1.0000	101	091112CLAIRE	
3	CAL 3	1.0000	1.0000	1.0000	102	091112CLAIRE	
4	CAL 4	1.0000	1.0000	1.0000	103	091112CLAIRE	
5	CAL 5	1.0000	1.0000	1.0000	104	091112CLAIRE	
6	CAL 6	1.0000	1.0000	1.0000	105	091112CLAIRE	
7	ICV	1.0000	1.0000	1.0000	106	091112CLAIRE	
8	ICB	1.0000	1.0000	1.0000	107	091112CLAIRE	
9	BLK	1.0000	1.0000	1.0000	108	091112CLAIRE	
10	LCS	1.0000	1.0000	1.0000	109	091112CLAIRE	
11	561-A-1	1.0000	1.0000	1.0000	110	091112CLAIRE	
12	561-A-1 @50	1.0000	1.0000	1.0000	111	091112CLAIRE	
13	561-A-2	1.0000	1.0000	1.0000	112	091112CLAIRE	
14	561-A-2 @10	1.0000	1.0000	1.0000	113	091112CLAIRE	
15	561-A-2 @50	1.0000	1.0000	1.0000	114	091112CLAIRE	
16	561-A-3	1.0000	1.0000	1.0000	115	091112CLAIRE	
17	561-A-3 @200	1.0000	1.0000	1.0000	116	091112CLAIRE	
18	CCV	1.0000	1.0000	1.0000	117	091112CLAIRE	
19	CCB	1.0000	1.0000	1.0000	118	091112CLAIRE	
20	561-A-4	1.0000	1.0000	1.0000	119	091112CLAIRE	
21	561-A-4 @10	1.0000	1.0000	1.0000	120	091112CLAIRE	
22	561-A-4 @100	1.0000	1.0000	1.0000	121	091112CLAIRE	
23	561-A-5	1.0000	1.0000	1.0000	122	091112CLAIRE	
24	561-A-5 @200	1.0000	1.0000	1.0000	123	091112CLAIRE	
25	561-A-6	1.0000	1.0000	1.0000	124	091112CLAIRE	
26	561-A-6 @50	1.0000	1.0000	1.0000	125	091112CLAIRE	
27	561-A-7	1.0000	1.0000	1.0000	126	091112CLAIRE	
28	561-A-7 @10	1.0000	1.0000	1.0000	127	091112CLAIRE	
29	561-A-7 @50	1.0000	1.0000	1.0000	128	091112CLAIRE	
30	CCV	1.0000	1.0000	1.0000	129	091112CLAIRE	
31	CCB	1.0000	1.0000	1.0000	130	091112CLAIRE	
32	561-A-8	1.0000	1.0000	1.0000	131	091112CLAIRE	
33	561-A-8 @10	1.0000	1.0000	1.0000	132	091112CLAIRE	
34	561-A-8 MS	1.0000	1.0000	1.0000	133	091112CLAIRE	
35	561-A-8 MS @10	1.0000	1.0000	1.0000	134	091112CLAIRE	
36	573-A-1	1.0000	1.0000	1.0000	135	091112CLAIRE	
37	573-A-1 @100	1.0000	1.0000	1.0000	136	091112CLAIRE	
38	573-A-2	1.0000	1.0000	1.0000	137	091112CLAIRE	
39	573-A-2 @100	1.0000	1.0000	1.0000	138	091112CLAIRE	
40	573-A-3	1.0000	1.0000	1.0000	139	091112CLAIRE	
41	573-A-3 @2	1.0000	1.0000	1.0000	140	091112CLAIRE	
42	CCV	1.0000	1.0000	1.0000	141	091112CLAIRE	

Title:
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT
Timebase: CLAIRE
#Samples: 61
Created: 9/11/2012 2:04:32 PM by boydj
Last Update: 9/11/2012 5:13:36 PM by boydj

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	CCB	Unknown	43	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 1:44:46 AM
44	573-A-4	Unknown	44	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 2:00:11 AM
45	573-A-4 @5	Unknown	45	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 2:15:36 AM
46	573-A-5	Unknown	46	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 2:31:00 AM
47	573-A-5 @10	Unknown	47	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 2:46:25 AM
48	573-A-5 MS	Unknown	48	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 3:01:49 AM
49	573-A-5 MS @10	Unknown	49	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 3:17:14 AM
50	573-A-5 MSD	Unknown	50	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 3:32:39 AM
51	573-A-5 MSD @10	Unknown	51	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 3:48:03 AM
52	CCV	Unknown	52	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 4:03:27 AM
53	CCB	Unknown	53	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 4:18:52 AM
54	573-A-6	Unknown	54	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 4:34:16 AM
55	573-A-6 @5	Unknown	55	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 4:49:41 AM
56	573-A-6 @50	Unknown	56	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 5:05:06 AM
57	573-A-7	Unknown	57	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 5:20:31 AM
58	573-A-7 @100	Unknown	58	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 5:35:55 AM
59	CCV	Unknown	59	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 5:51:20 AM
60	CCB	Unknown	60	50.0	Claire_Routine	STLANIONS	Finished	9/12/2012 6:06:44 AM
61	END	Unknown	61	50.0	Claire_Shutdown	STLANIONS	Finished	9/12/2012 6:22:08 AM

Sequence: 091112CAL
Operator: boydj
Printed: 9/13/2012 4:24:42 PM

Title:
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT
Timebase: CLAIRE
#Samples: 61

Created: 9/11/2012 2:04:32 PM by boydj
Last Update: 9/11/2012 5:13:36 PM by boydj

No.	Name	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	CCB	1.0000	1.0000	1.0000	142	091112CLAIRE	
44	573-A-4	1.0000	1.0000	1.0000	143	091112CLAIRE	
45	573-A-4 @5	1.0000	1.0000	1.0000	144	091112CLAIRE	
46	573-A-5	1.0000	1.0000	1.0000	145	091112CLAIRE	
47	573-A-5 @10	1.0000	1.0000	1.0000	146	091112CLAIRE	
48	573-A-5 MS	1.0000	1.0000	1.0000	147	091112CLAIRE	
49	573-A-5 MS @10	1.0000	1.0000	1.0000	148	091112CLAIRE	
50	573-A-5 MSD	1.0000	1.0000	1.0000	149	091112CLAIRE	
51	573-A-5 MSD @10	1.0000	1.0000	1.0000	150	091112CLAIRE	
52	CCV	1.0000	1.0000	1.0000	151	091112CLAIRE	
53	CCB	1.0000	1.0000	1.0000	152	091112CLAIRE	
54	573-A-6	1.0000	1.0000	1.0000	153	091112CLAIRE	
55	573-A-6 @5	1.0000	1.0000	1.0000	154	091112CLAIRE	
56	573-A-6 @50	1.0000	1.0000	1.0000	155	091112CLAIRE	
57	573-A-7	1.0000	1.0000	1.0000	156	091112CLAIRE	
58	573-A-7 @100	1.0000	1.0000	1.0000	157	091112CLAIRE	
59	CCV	1.0000	1.0000	1.0000	158	091112CLAIRE	
60	CCB	1.0000	1.0000	1.0000	159	091112CLAIRE	
61	END	1.0000	1.0000	1.0000	160	091112CLAIRE	

Title: STLANIONS
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT\091112CAL.SEQ
Timebase: CLAIRE
Created: 8/14/2008 4:24:54 PM by chemist
Changed: 9/6/2012 3:18:39 PM by boydj

```
            Pressure.LowerLimit =                0
            Pressure.UpperLimit =                4000
            %A.Equate =                          "%A"
;           %B.Equate =                          "%B"
;           %C.Equate =                          "%C"
;           %D.Equate =                          "%D"
            LoadPosition
            Data_Collection_Rate =               2.0
;           Temperature_Compensation =           1.7
            ColumnTemperature =                  35.0 [°C]
            Suppressor_Type =                    ASRS_4mm
            ; Carbonate =                       3.5
            ; Bicarbonate =                     1.0
            ; Hydroxide =                       0.0
            ; Tetraborate =                     0.0
            ; Other eluent =                    0.0
            ; Recommended Current =             30
            Suppressor_Current =                 30
            Flow =                               1.0

;           %B =                                 0.0
;           %C =                                 0.0
;           %D =                                 0.0
;           Curve =                              5

-2.300      Pump_ECD_Relay_1.Closed              Duration=1.00

 0.000      Autozero
            ECD_1.AcqOn
            ECD_Total.AcqOn
            Channel_Pressure.AcqOn
            Pump_InjectValve.InjectPosition      Duration=30.00

13.0        ECD_1.AcqOff
            ECD_Total.AcqOff
            Channel_Pressure.AcqOff

            End
```

Title: STLANIONS
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT\091112CAL.SEQ
Timebase: CLAIRE

Created: 8/14/2008 4:24:54 PM by chemist
Changed: 9/6/2012 3:18:39 PM by boydj

No.	Channel	Operation	Parameters

Title: STLANIONS
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT\091112CAL.SEQ
Timebase: CLAIRE
Created: 8/14/2008 4:45:27 PM by chemist
Changed: 8/14/2008 4:45:27 PM by chemist

```
          Pressure.LowerLimit =                100
          Pressure.UpperLimit =                3000
          %A.Equate =                          "%A"
          LoadPosition
          Data_Collection_Rate =               2.0
          ColumnTemperature.Nominal =          35.0 [°C]
          Suppressor_Type =                    ASRS_4mm
          ; Carbonate =                        0.0
          ; Bicarbonate =                      0.0
          ; Hydroxide =                        0.0
          ; Tetraborate =                      0.0
          ; Other eluent =                     0.0
          ; Recommended Current =              0.0
          Suppressor_Current =                 21.0
          Suppressor_Mode =                    Off
          Flow =                               1.50

0.000     Off

          End
```

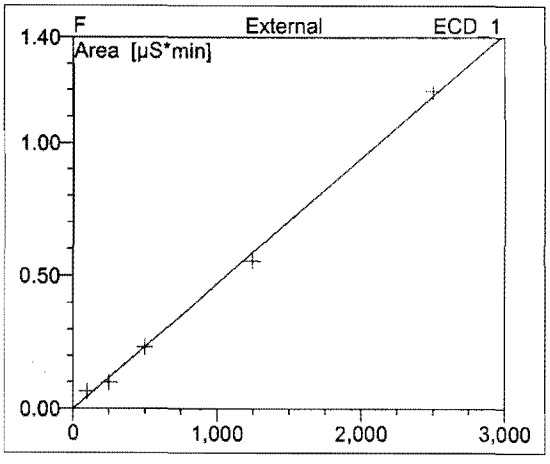
Title: STLANIONS
Datasource: SLIC03_local
Location: CLAIRE\Sequences\12SEPT\091112CAL.SEQ
Timebase: CLAIRE

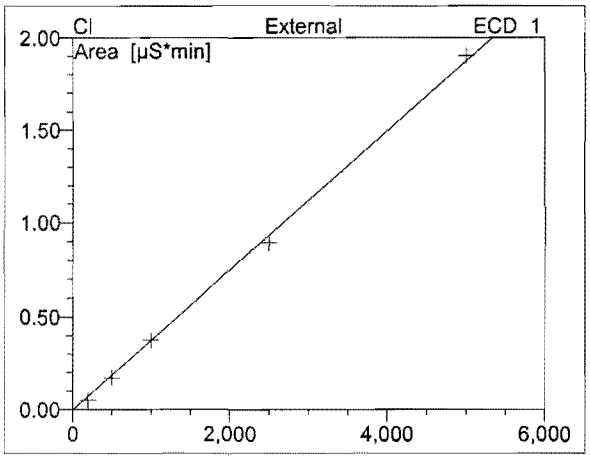
Created: 8/14/2008 4:45:27 PM by chemist
Changed: 8/14/2008 4:45:27 PM by chemist

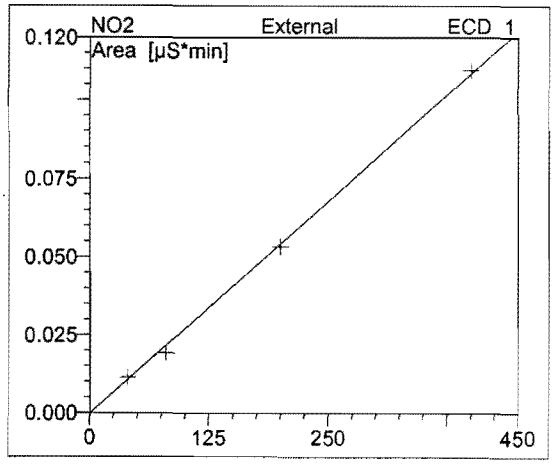
No.	Channel	Operation	Parameters

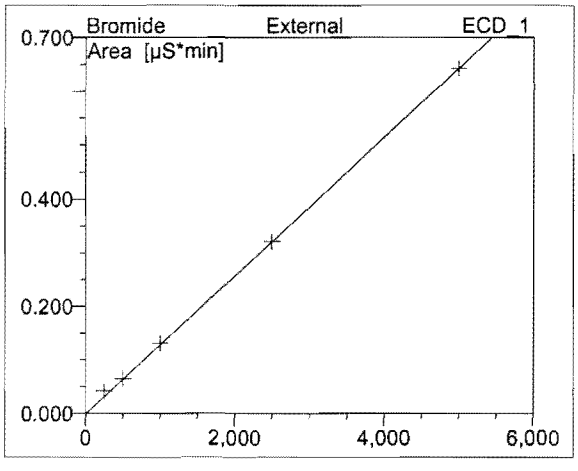
Calibration Batch Report - ECD_1

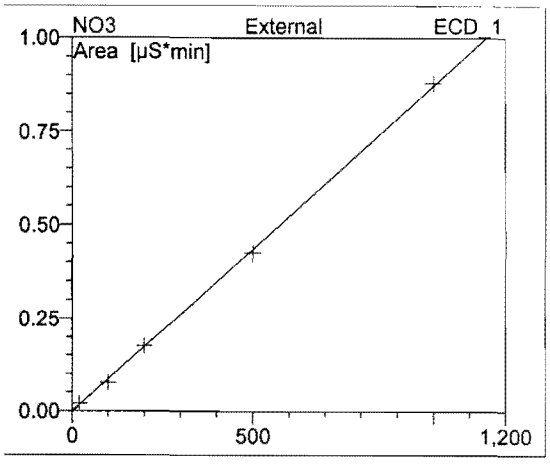
Sequence:	**091112CAL**	Inj. Vol.:	**50.0**
Program:	**Claire_Routine**	Operator:	**SLIC03**
Inj. Date/Time:	**09/11/12 16:14**	Run Time:	**13.00**

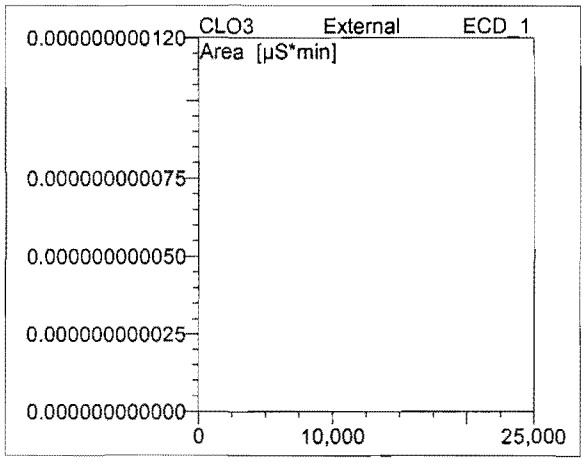


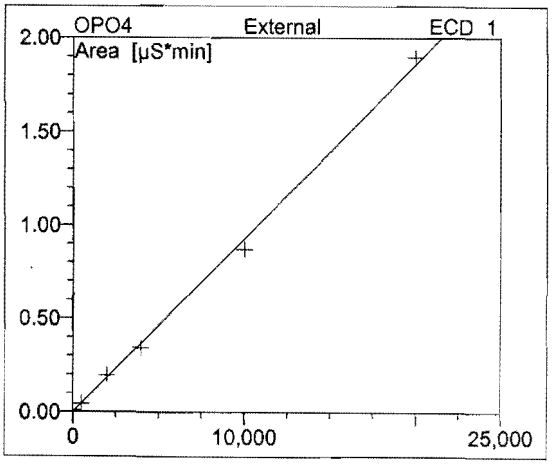


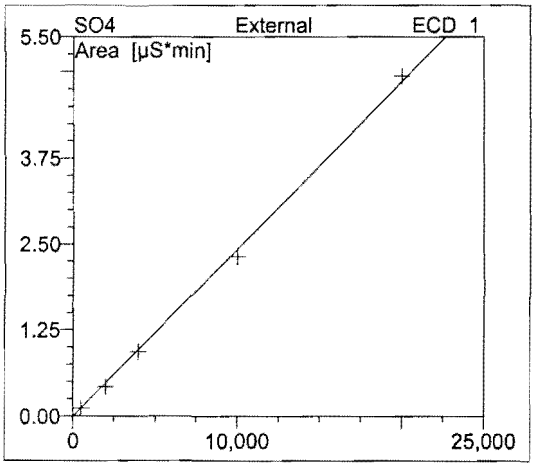












No.	Peak Name	Cal.Type	Corr.Coeff. %
1	F	Lin	99.892
2	Cl	Lin	99.957✓
3	NO2	Lin	99.953
4	Bromide	Lin	99.990
5	NO3	Lin	99.977✓
6	OPO4	Lin	99.898
7	SO4	Lin	99.950✓

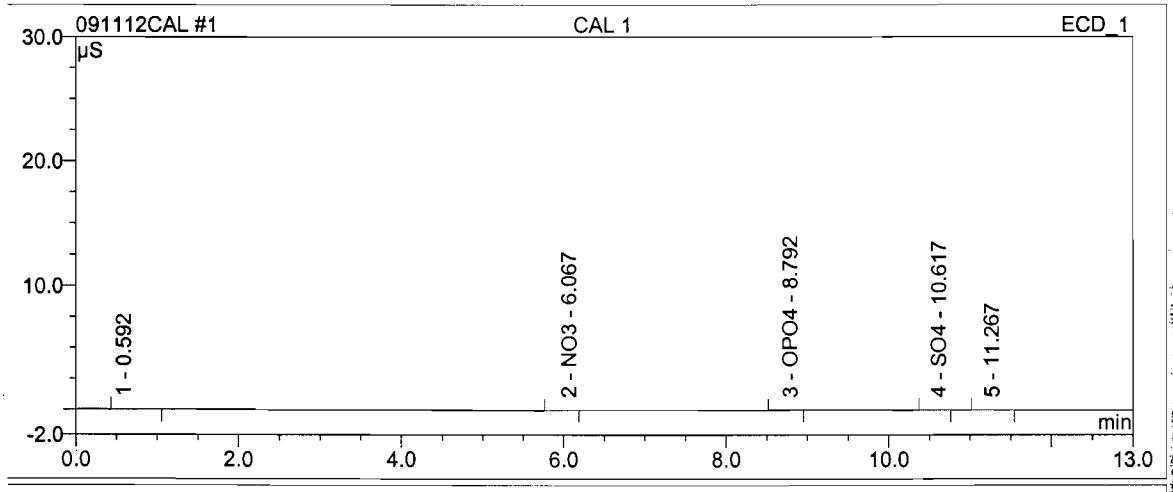
JB
9/13/12

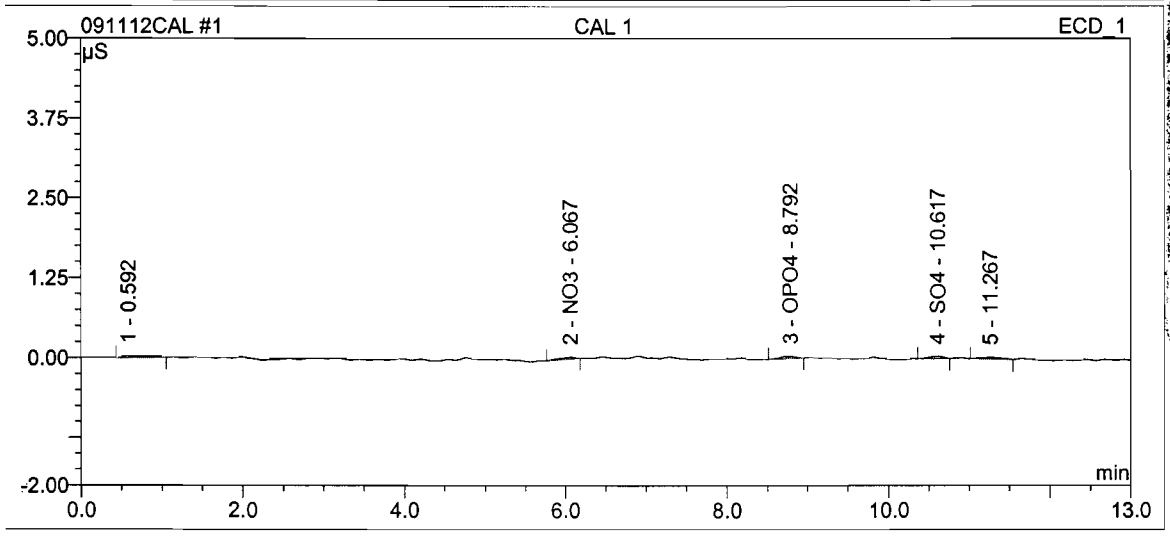
Integration Report - ECD_1

Sample Name:	**CAL 1**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 14:57**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	6.07	NO3	BMB	0.008	0.030	8.7115
3	8.79	OPO4	BMB	0.008	0.031	82.4257
4	10.62	SO4	BMB	0.007	0.035	29.6962
		TOTAL:		0.02	0.10	120.83

MI
JB
SEP 13 2012



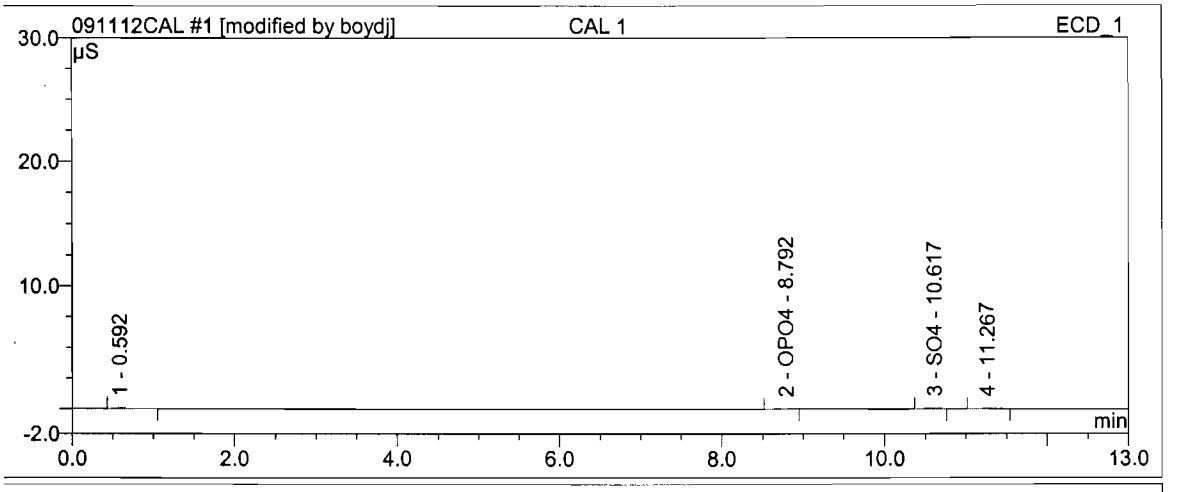


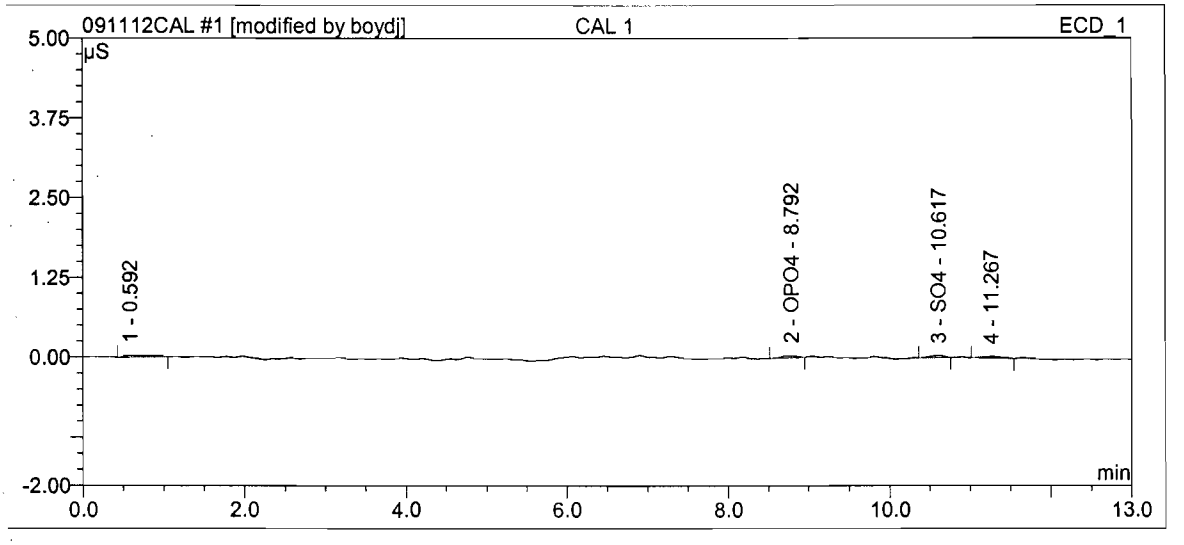
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak - not NO3
5. Baseline Smoothing
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**CAL 1**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 14:57**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	8.79	OPO4	BMB	0.008	0.031	82.2836
3	10.62	SO4	BMB	0.007	0.035	29.6261
		TOTAL:		0.01	0.07	111.91



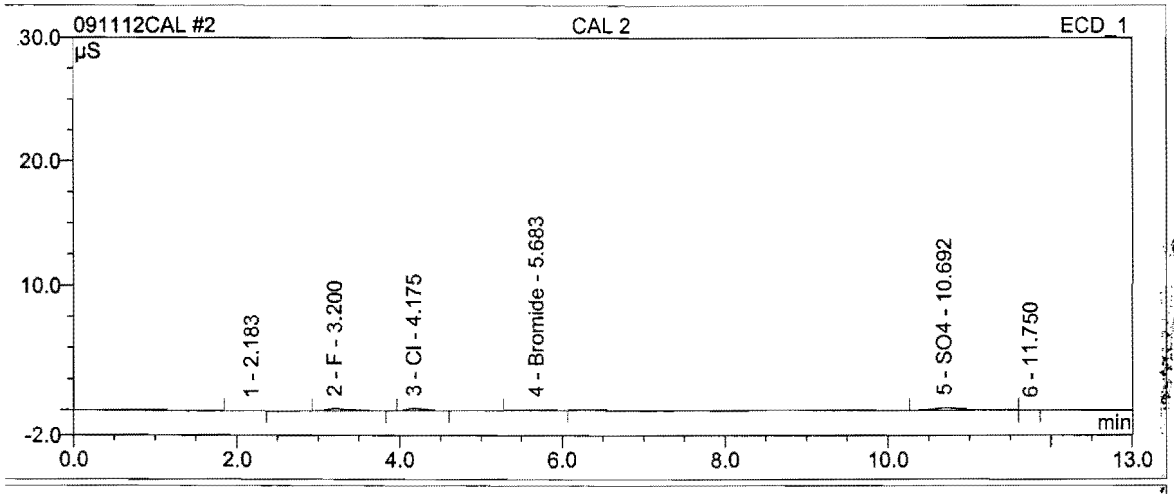


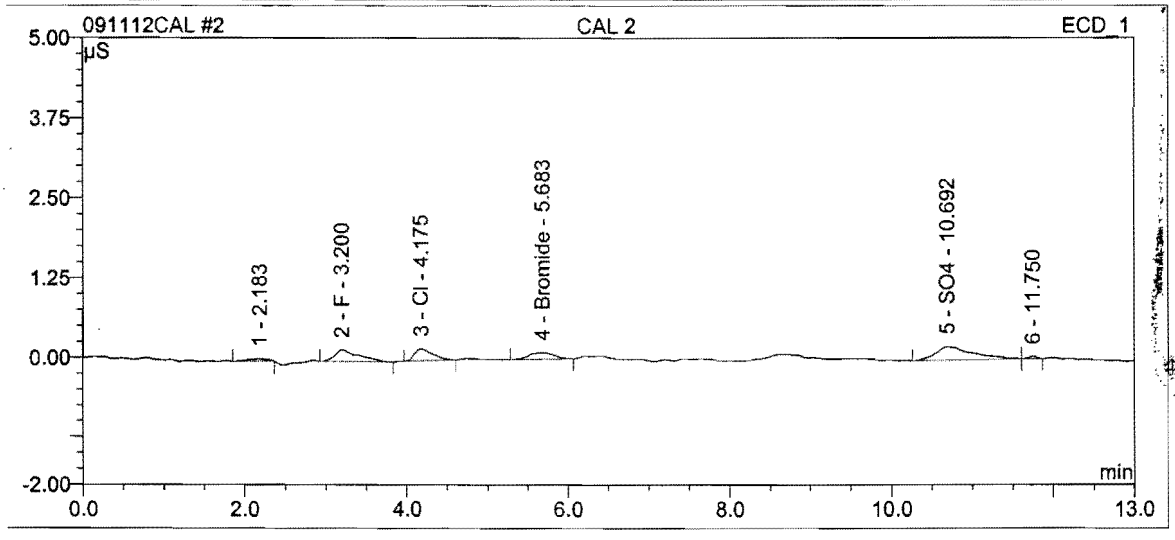
Integration Report - ECD_1

Sample Name:	**CAL 2**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:13**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.20	F	BMB	0.064	0.183	136.8971
3	4.18	Cl	BMB	0.050	0.189	134.1397
4	5.68	Bromide	BMB	0.038	0.105	294.4993
5	10.69	SO4	BM	0.116	0.212	477.9453
		TOTAL:		0.27	0.69	1043.48

MI
JB
SEP 13 2012



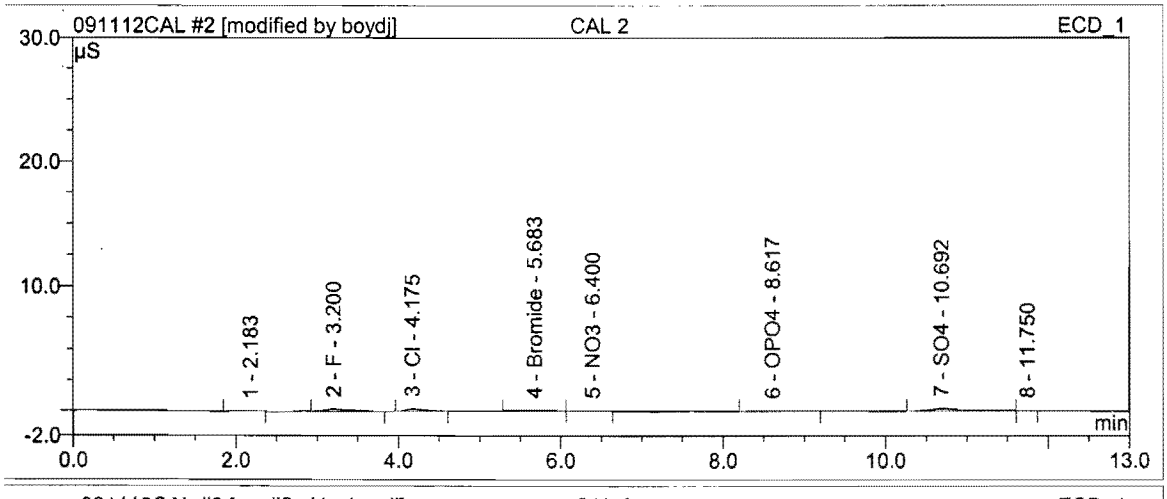


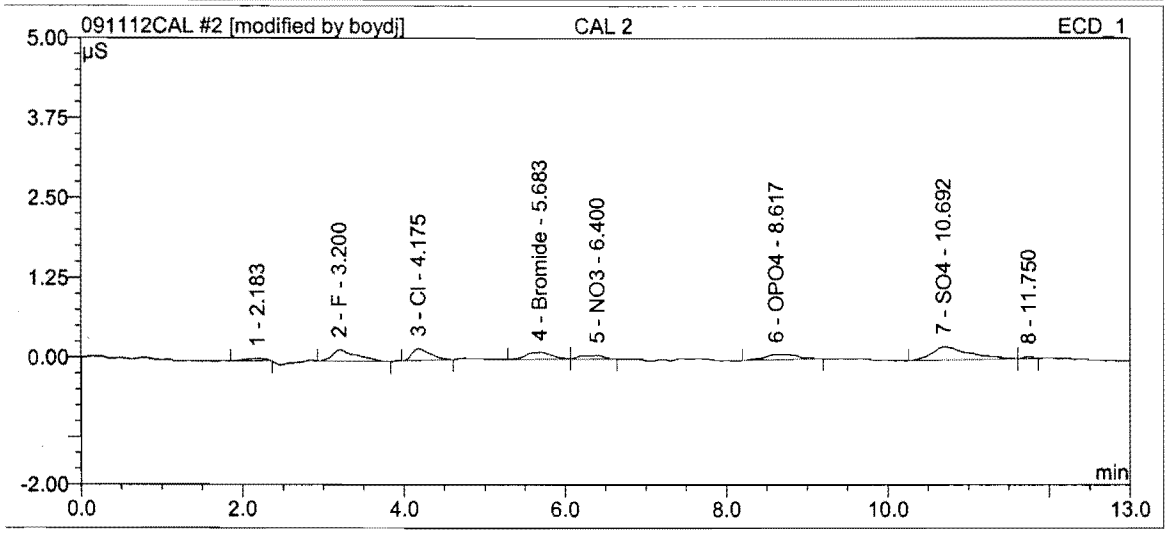
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak -N03, OPO4
4. Wrong Peak
5. Baseline Smoothing -Br
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**CAL 2**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:13**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.20	F	BMB	0.064	0.183	136.5753
3	4.18	Cl	BMB	0.050	0.189	133.4392
4	5.68	Bromide	BM *	0.041	0.110	321.4126
5	6.40	NO3	MB*	0.020	0.057	22.7797
6	8.62	OPO4	BMB*	0.043	0.086	460.8926
7	10.69	SO4	BM	0.116	0.212	476.8170
		TOTAL:		0.33	0.84	1551.92



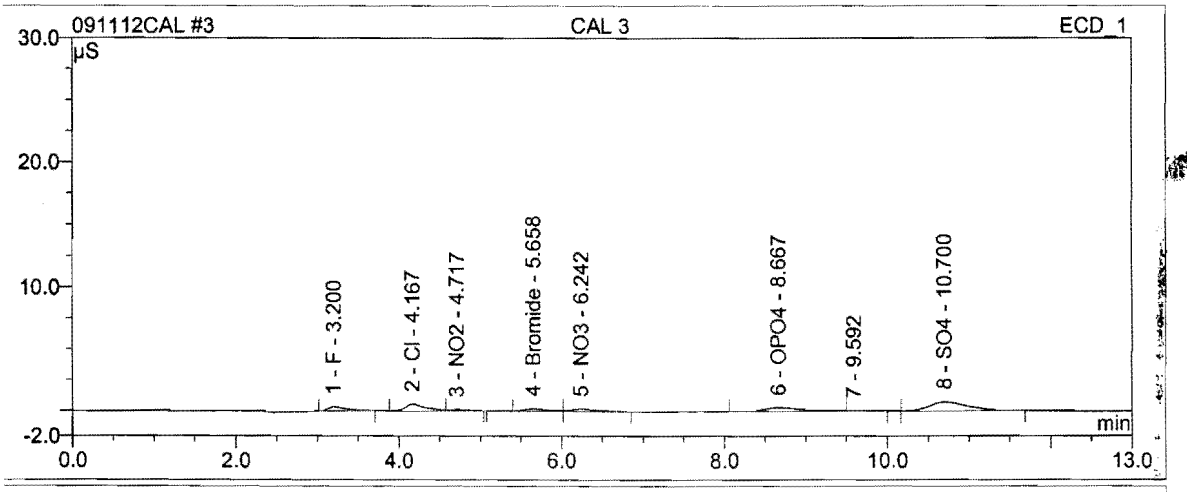


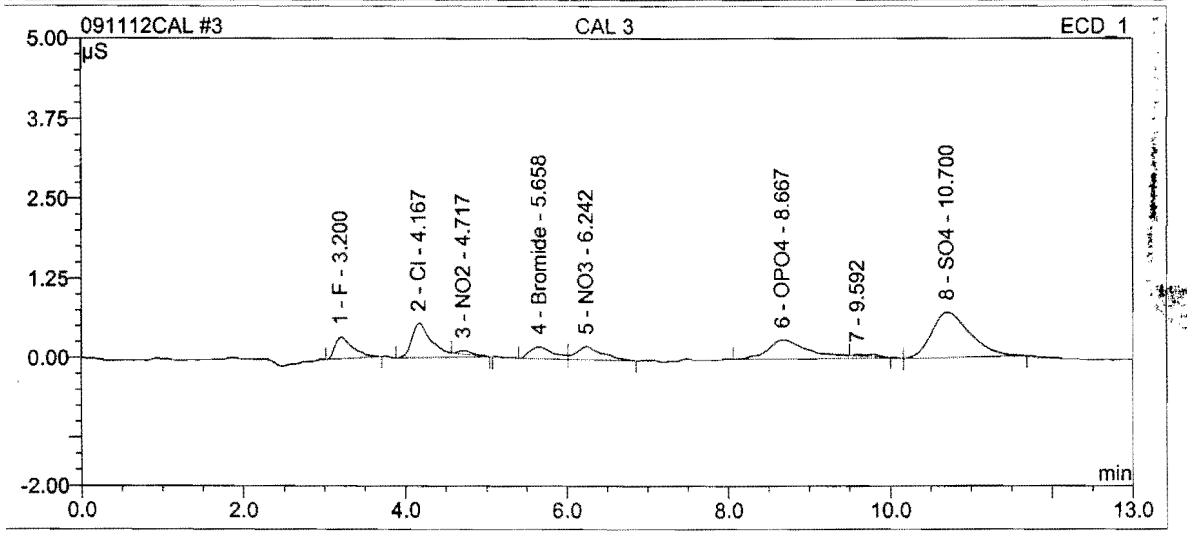
Integration Report - ECD_1

Sample Name:	**CAL 3**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:28**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	BMB	0.086	0.338	183.2560
2	4.17	Cl	BMB	0.171	0.545	457.1972
3	4.72	NO2	Rd	0.011	0.053	41.1383
4	5.66	Bromide	BM	0.064	0.185	499.4240
5	6.24	NO3	MB	0.077	0.206	88.0877
6	8.67	OPO4	BMb	0.195	0.297	2097.6713
8	10.70	SO4	bMB	0.393	0.713	1620.5255
		TOTAL:		1.00	2.34	4987.30

MI
JB
SEP 13 2012



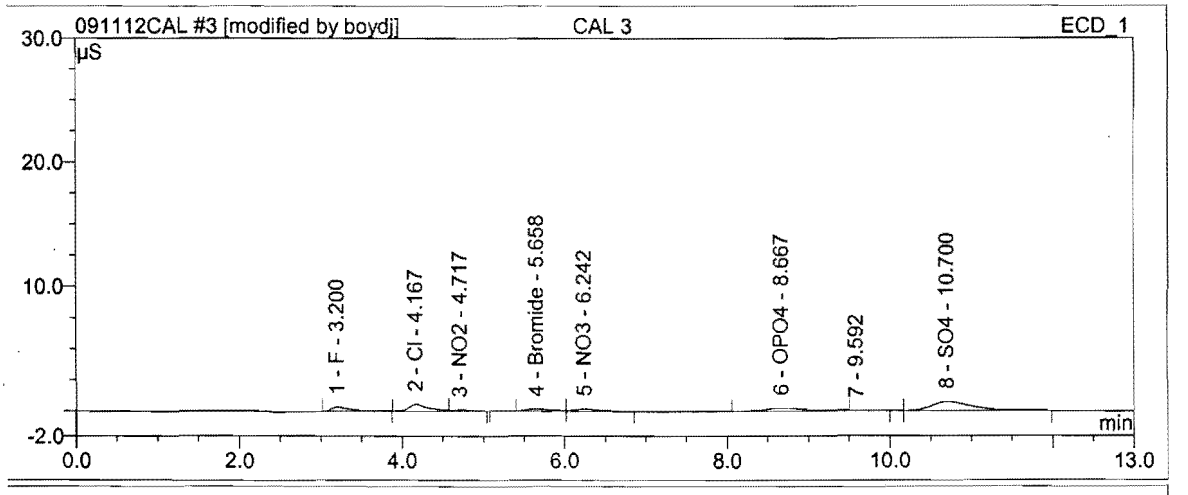


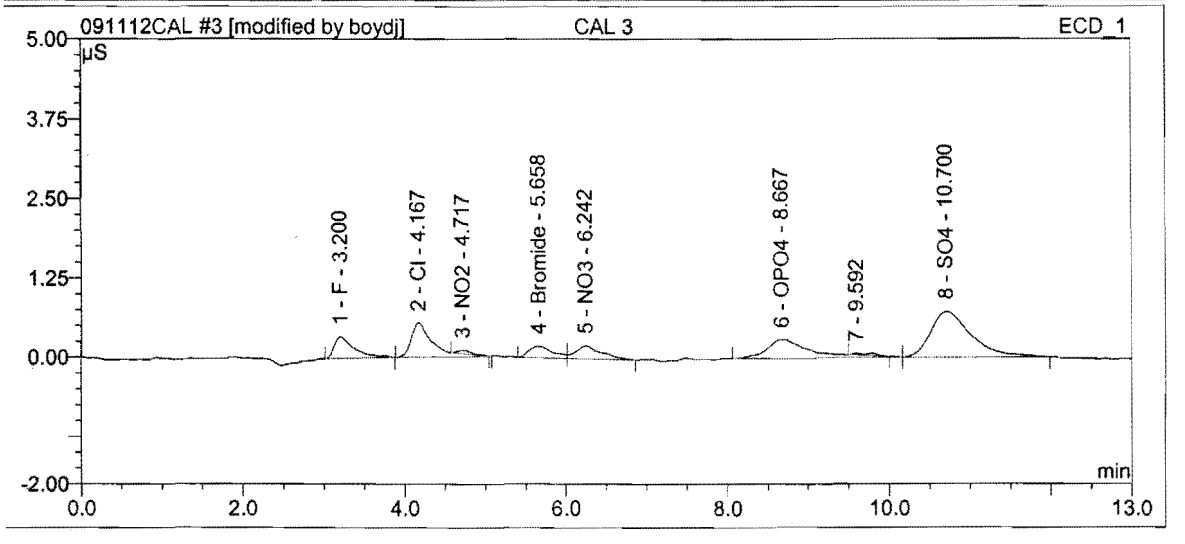
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -F, SO4
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**CAL 3**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:28**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	BMB*	0.098	0.345	209.0251
2	4.17	Cl	BMB	0.171	0.545	454.8095
3	4.72	NO2	Rd	0.011	0.053	41.1383
4	5.66	Bromide	BM	0.064	0.185	496.5608
5	6.24	NO3	MB	0.077	0.206	87.6180
6	8.67	OPO4	BMb	0.195	0.297	2094.0548
8	10.70	SO4	bMB*	0.421	0.724	1733.9349
		TOTAL:		1.04	2.36	5117.14



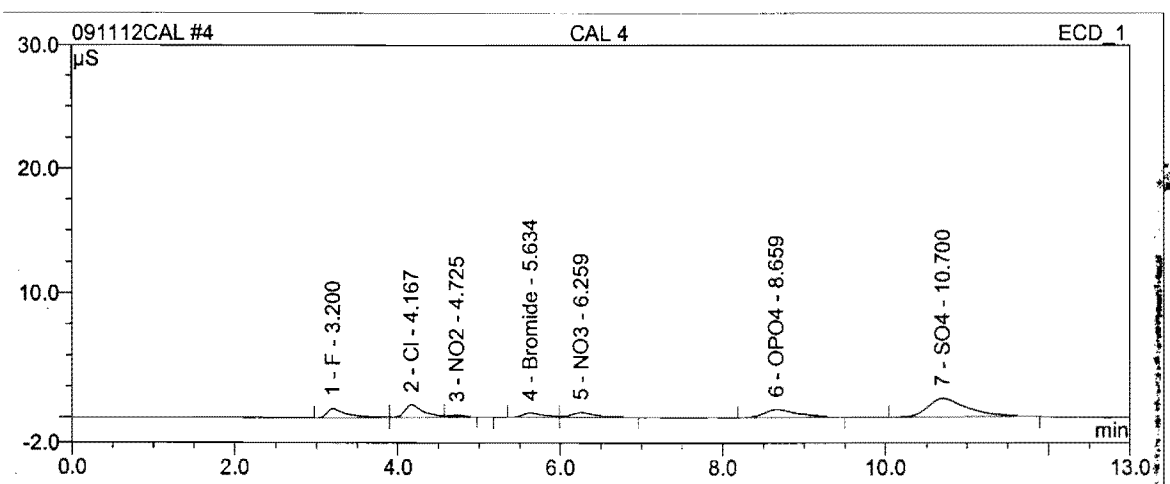


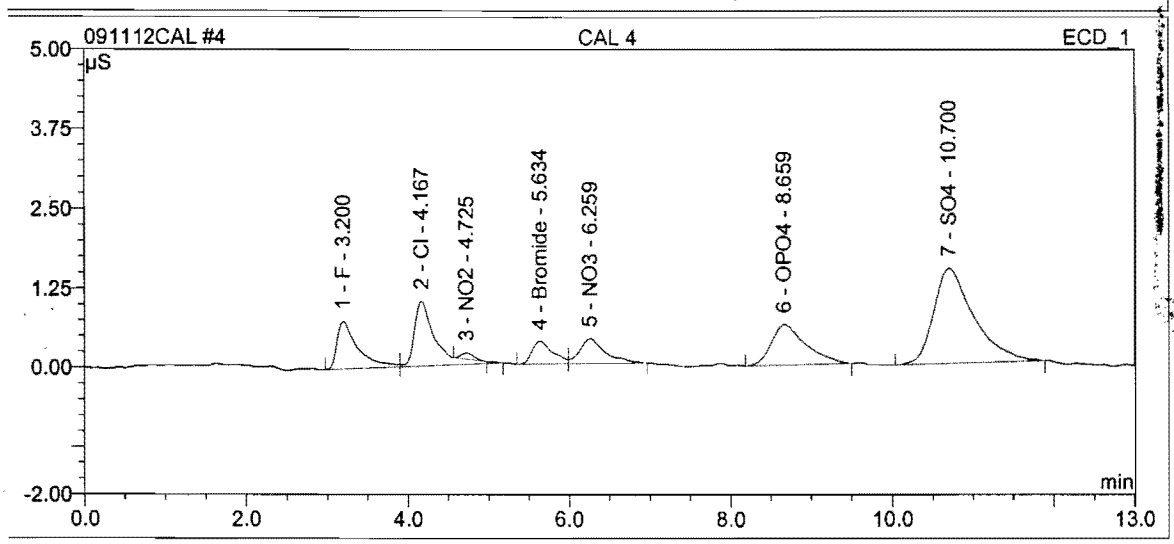
Integration Report - ECD_1

Sample Name:	**CAL 4**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:43**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	BM	0.222	0.751	471.4692
2	4.17	Cl	MB	0.310	1.026	830.5315
3	4.73	NO2	Rd	0.019	0.098	70.0364
4	5.63	Bromide	BM	0.108	0.360	844.1573
5	6.26	NO3	MB	0.145	0.392	167.2154
6	8.66	OPO4	BMB	0.322	0.647	3461.5325
7	10.70	SO4	BMB	0.868	1.502	3580.5238
		TOTAL:		1.99	4.78	9425.47

MI
JB
SEP 13 2012



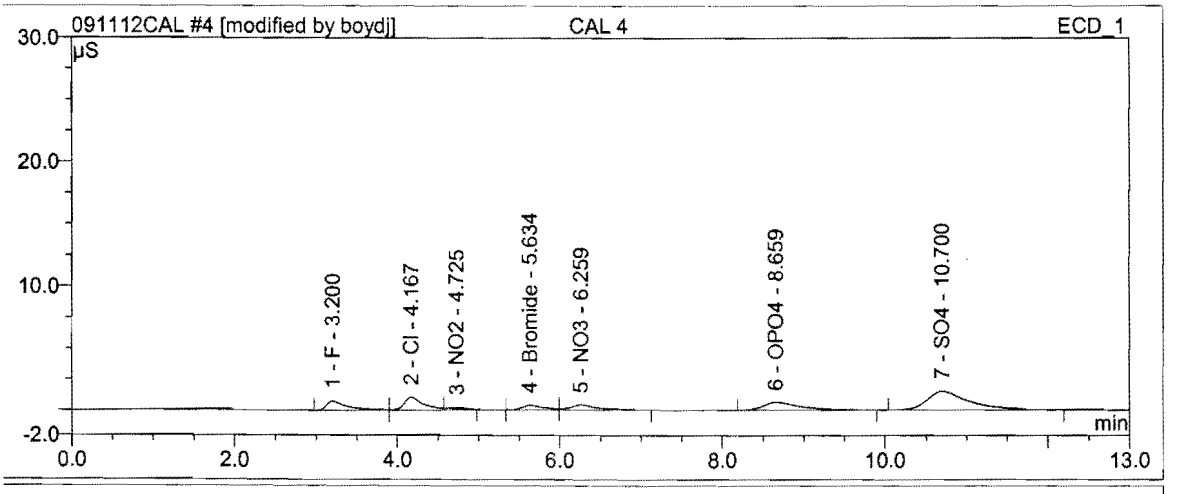


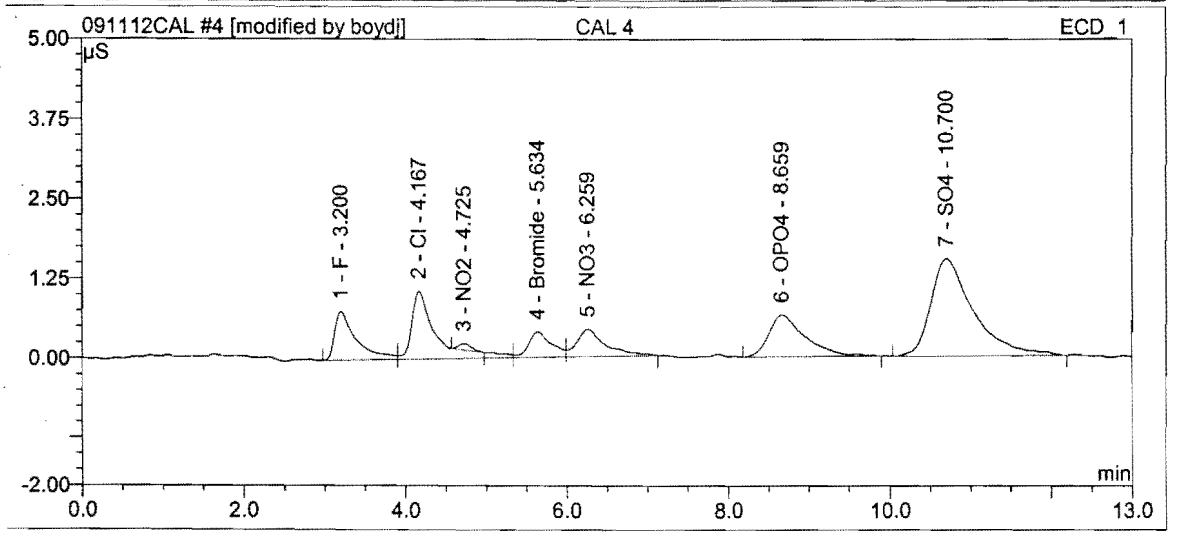
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -NO3, OPO4, SO4
6. Split Peak -Cl/Br
7. Other

Integration Report - ECD_1

Sample Name:	**CAL 4**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:43**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	BM *	0.233	0.757	495.5039
2	4.17	Cl	M *	0.374	1.059	996.1318
3	4.73	NO2	Rd	0.019	0.098	70.0364
4	5.63	Bromide	M *	0.131	0.395	1018.8526
5	6.26	NO3	MB*	0.175	0.422	200.7007
6	8.66	OPO4	BMB*	0.343	0.655	3684.5779
7	10.70	SO4	BMB*	0.929	1.522	3820.4926
		TOTAL:		2.20	4.91	10286.30

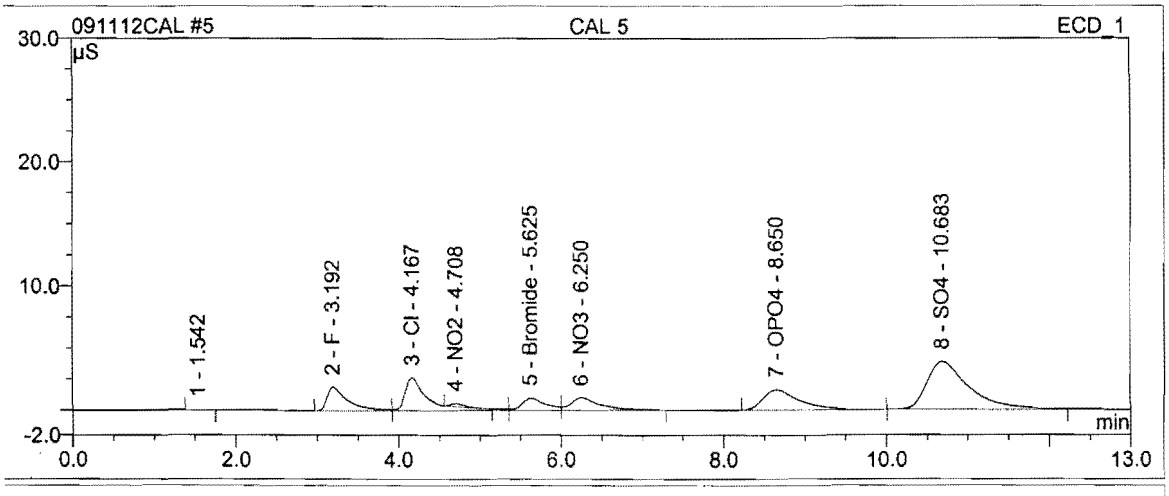


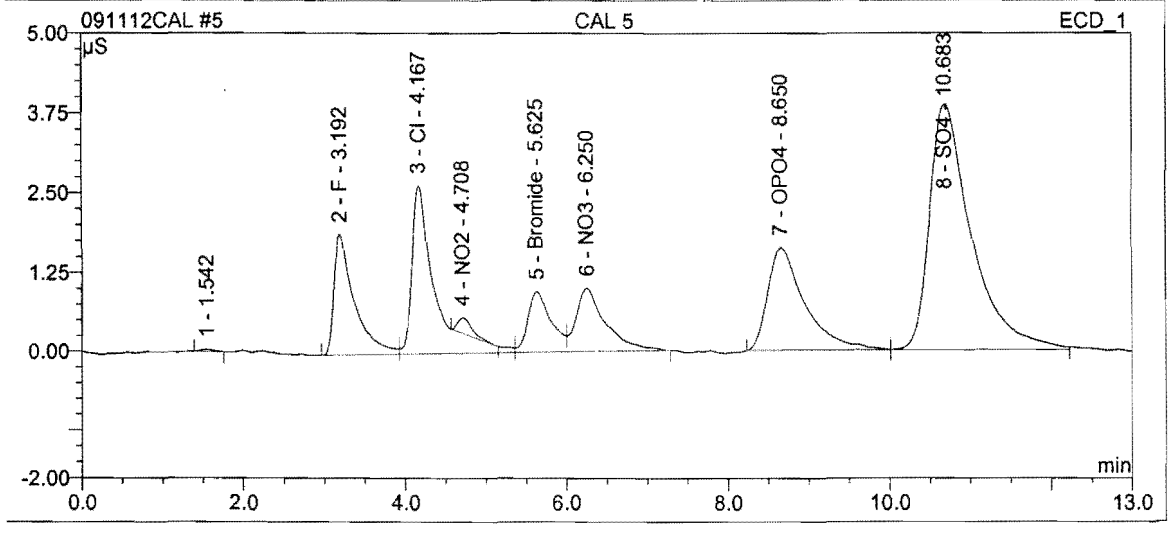


Integration Report - ECD_1

Sample Name:	**CAL 5**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 15:59**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.19	F	BM	0.556	1.907	1180.7780
3	4.17	Cl	M	0.892	2.651	2378.6642
4	4.71	NO2	Rd	0.053	0.249	196.3821
5	5.63	Bromide	M	0.321	0.958	2496.4579
6	6.25	NO3	MB	0.425	1.010	486.9483
7	8.65	OPO4	BMB	0.870	1.626	9351.5888
8	10.68	SO4	bM	2.317	3.854	9531.8943
		TOTAL:		5.44	12.25	25622.71

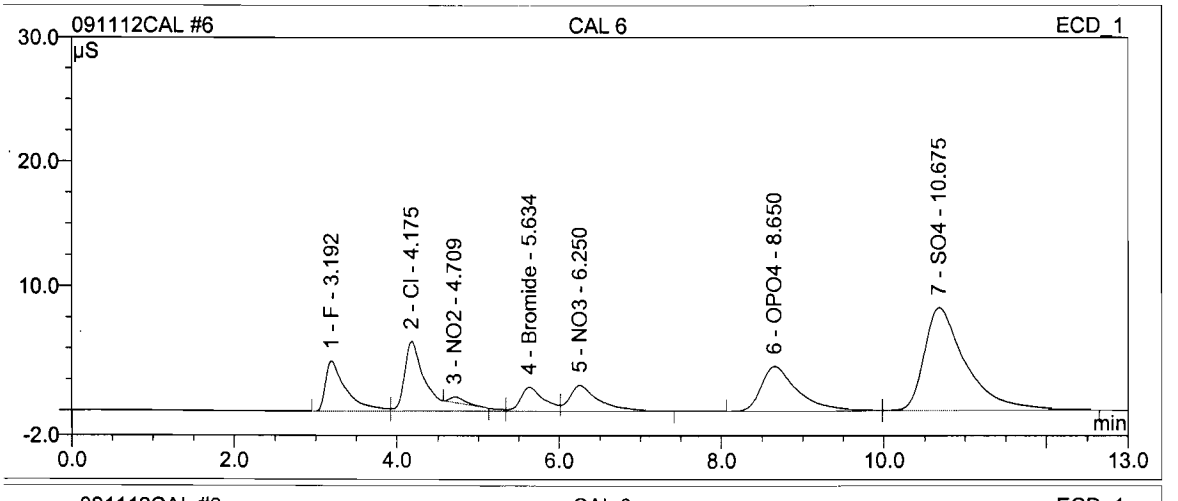


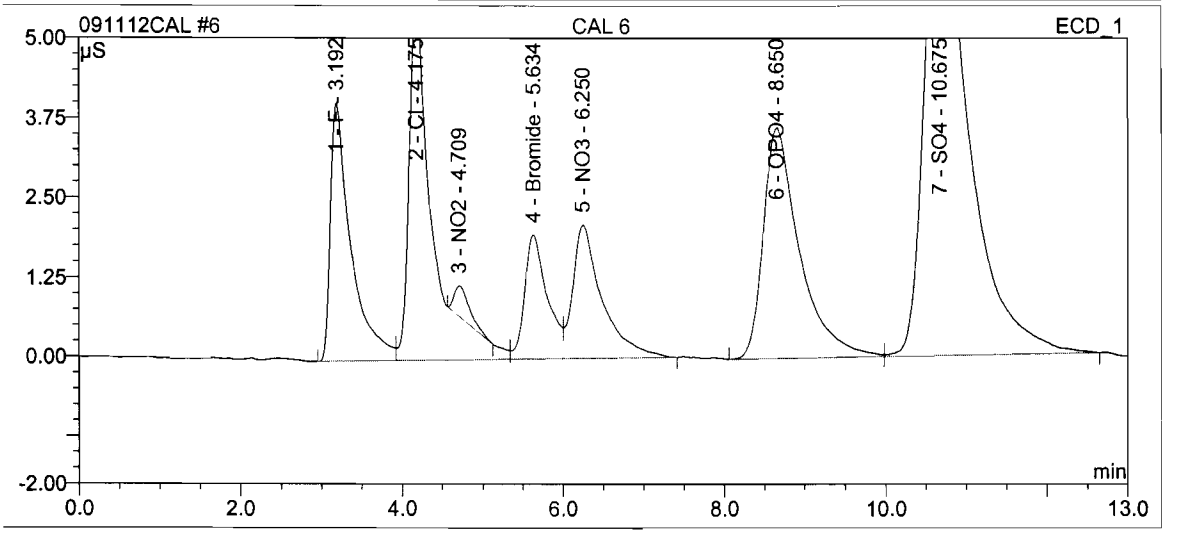


Integration Report - ECD_1

Sample Name:	**CAL 6**	*Inj. Vol.:*	**50.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 16:14**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.19	F	BM	1.196	4.052	2538.1447
2	4.18	Cl	M	1.902	5.640	5068.6230
3	4.71	NO2	Rd	0.110	0.483	403.6879
4	5.63	Bromide	M	0.642	1.945	4994.7738
5	6.25	NO3	MB	0.880	2.096	1007.5683
6	8.65	OPO4	BM	1.896	3.625	20378.8622
7	10.68	SO4	MB	4.934	8.312	20297.1404
		TOTAL:		11.56	26.15	54688.80



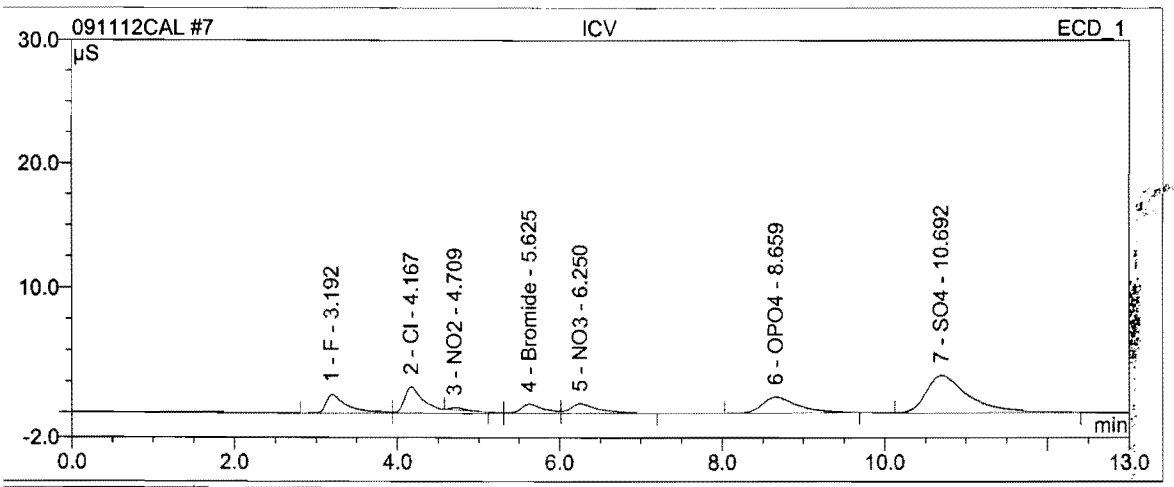


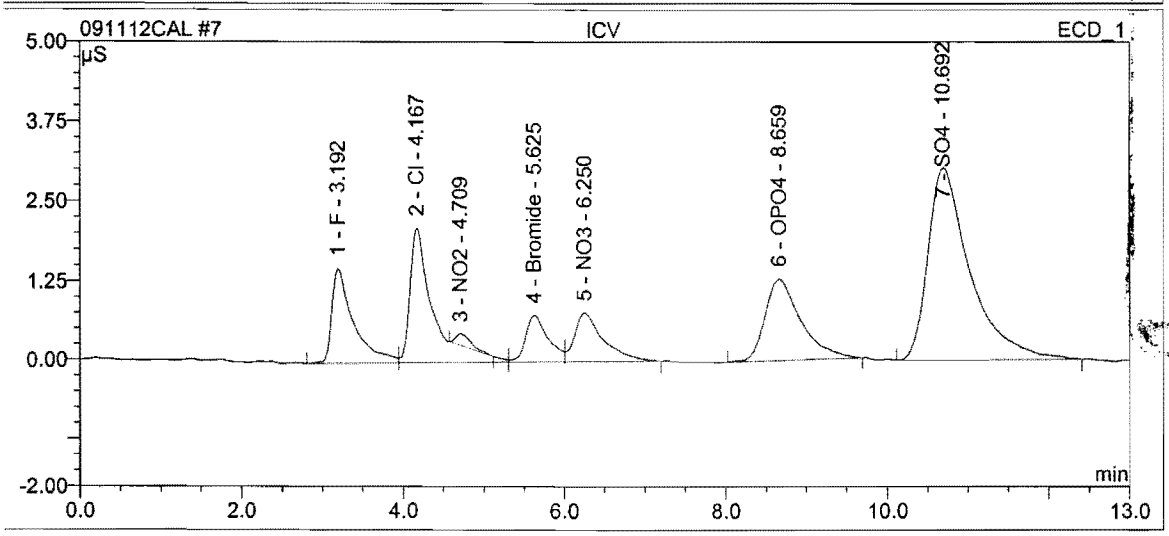
Integration Report - ECD_1

Sample Name:	**ICV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 16:30**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.19	F	BM	0.472	1.509	1001.5371
2	4.17	Cl	M	0.727	2.125	1936.7576
3	4.71	NO2	Rd	0.042	0.184	154.6336
4	5.63	Bromide	M	0.243	0.745	1890.8250
5	6.25	NO3	MB	0.320	0.781	366.9685
6	8.66	OPO4	BMB	0.669	1.299	7189.0816
7	10.69	SO4	BMB	1.838	3.016	7561.8337
		TOTAL:		4.31	9.66	20101.64

MI
JB
SEP 13 2012



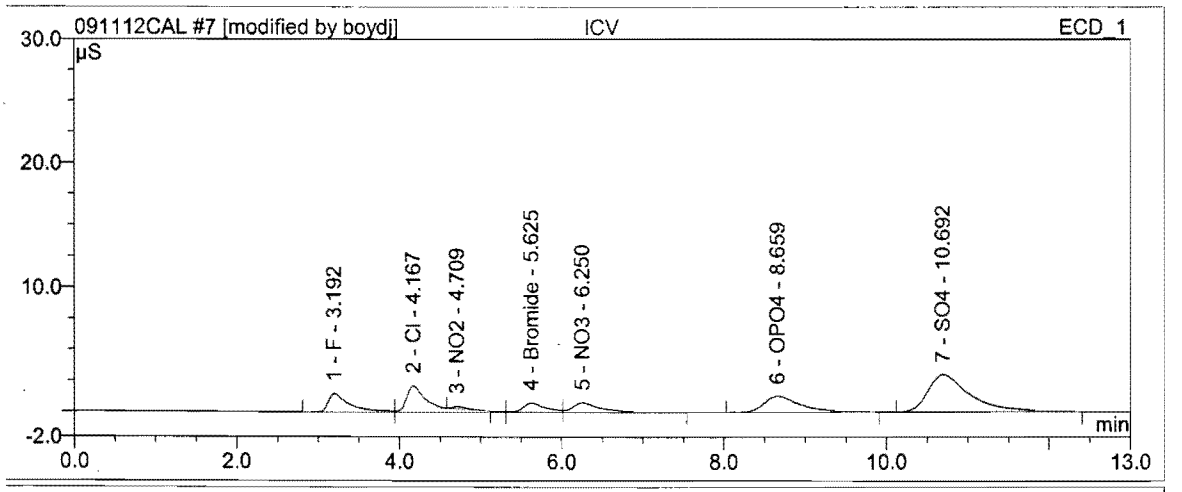


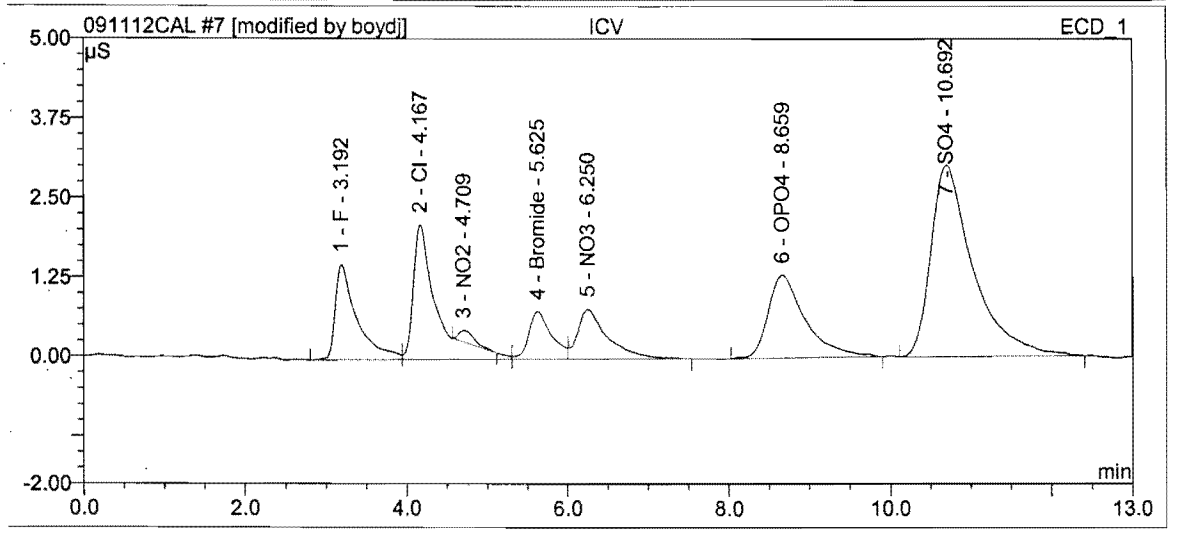
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -NO3, OPO4
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**ICV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 16:30**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.19	F	BM *	0.474	1.510	1006.7095
2	4.17	Cl	M *	0.736	2.130	1961.8754
3	4.71	NO2	Rd	0.042	0.184	154.6336
4	5.63	Bromide	M *	0.251	0.756	1949.7004
5	6.25	NO3	MB*	0.341	0.794	390.7159
6	8.66	OPO4	BMB*	0.706	1.314	7591.1437
7	10.69	SO4	BMB	1.838	3.016	7561.8337
		TOTAL:		4.39	9.71	20616.61

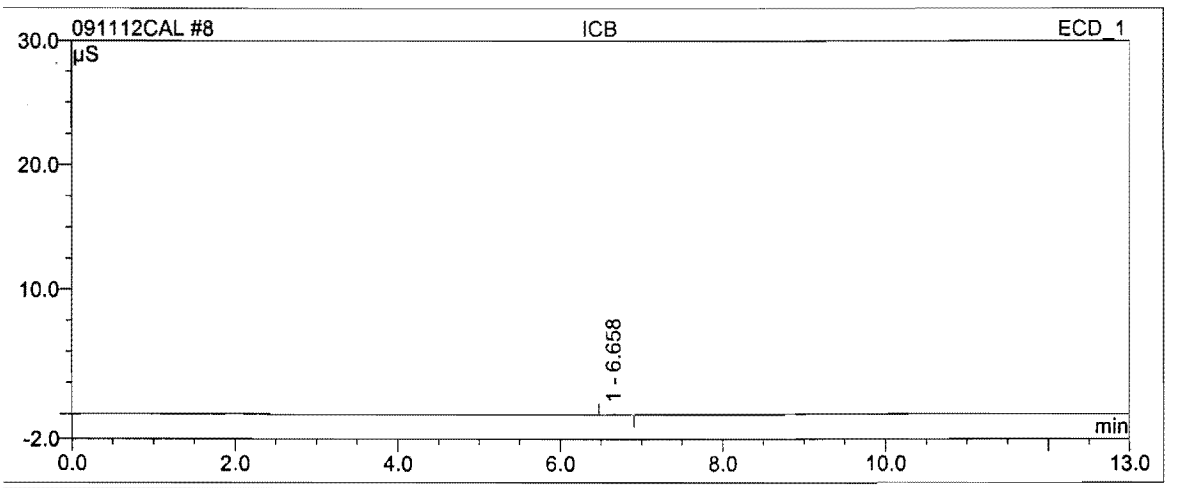


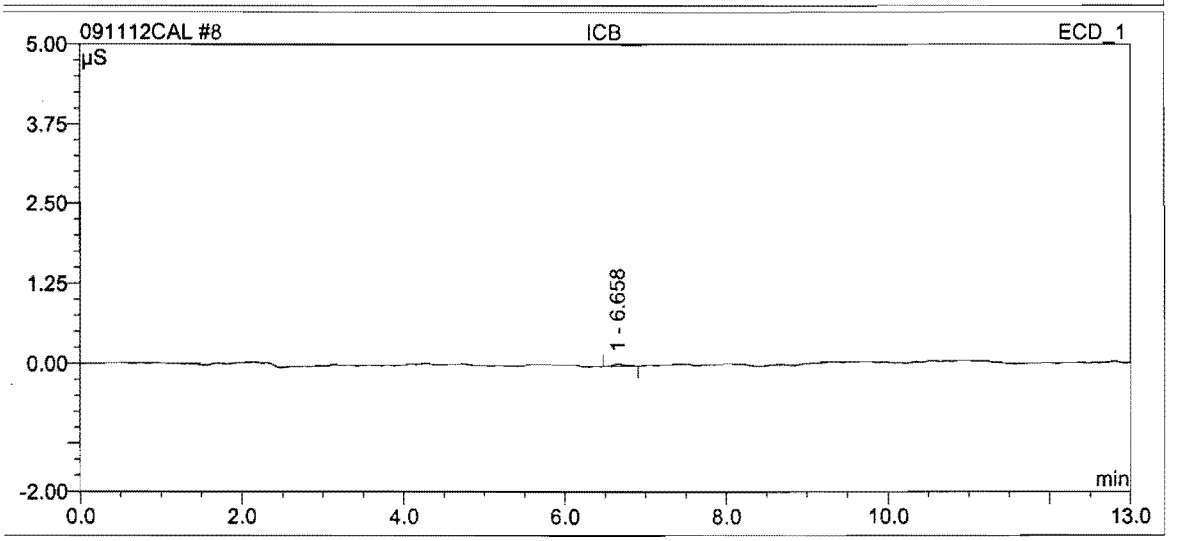


Integration Report - ECD_1

Sample Name:	**ICB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 16:45**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
		TOTAL:		0.00	0.00	0.00

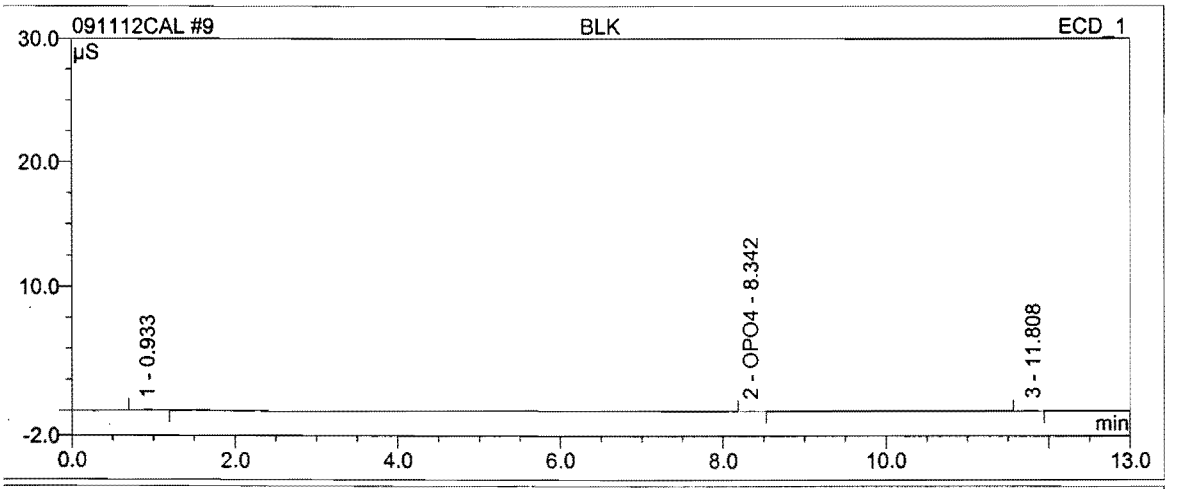


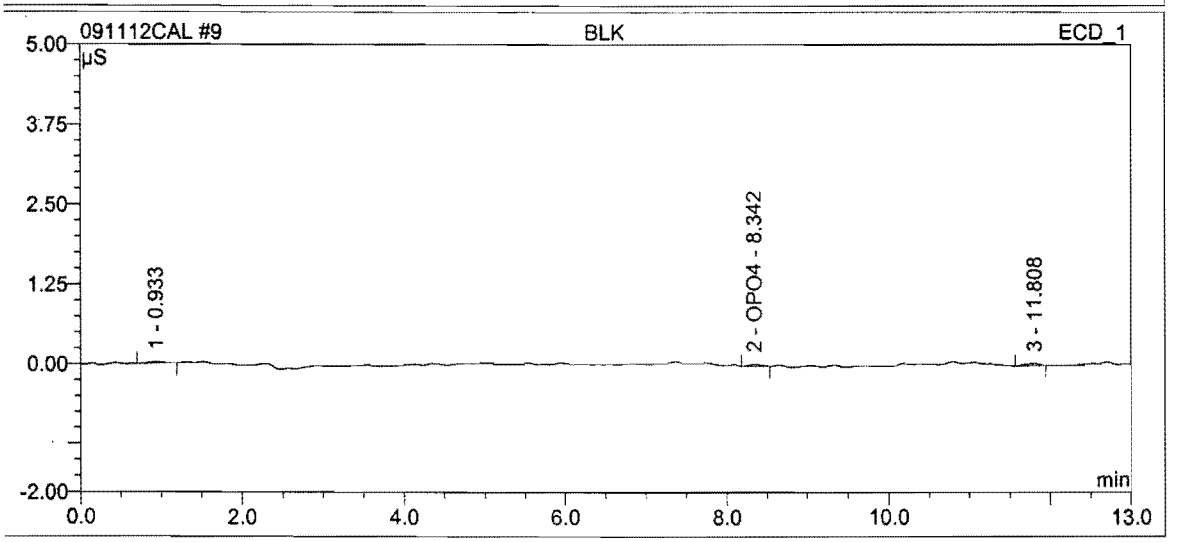


Integration Report - ECD_1

Sample Name:	**BLK**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:00**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	8.34	OPO4	BMB	0.006	0.031	61.1490
		TOTAL:		0.01	0.03	61.15



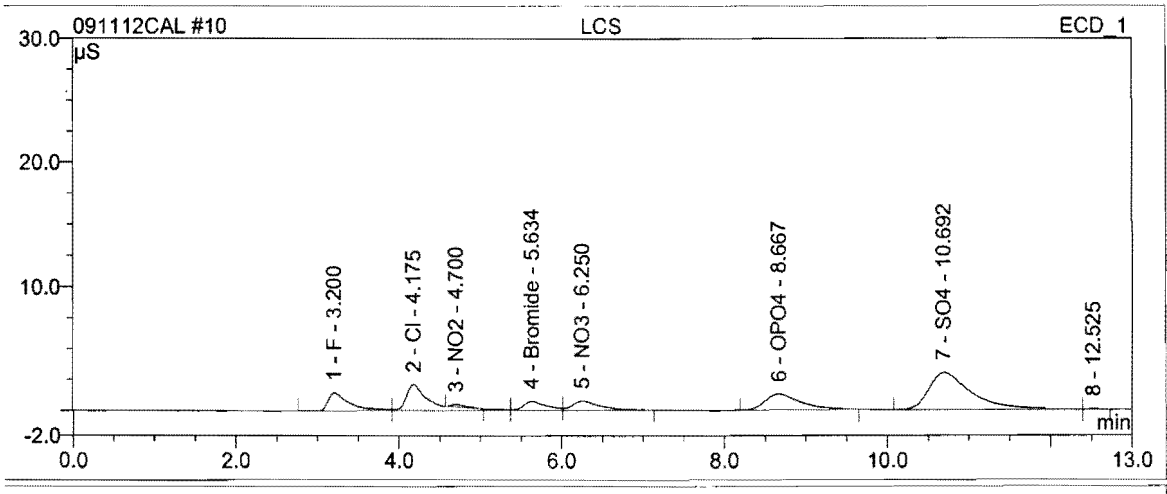


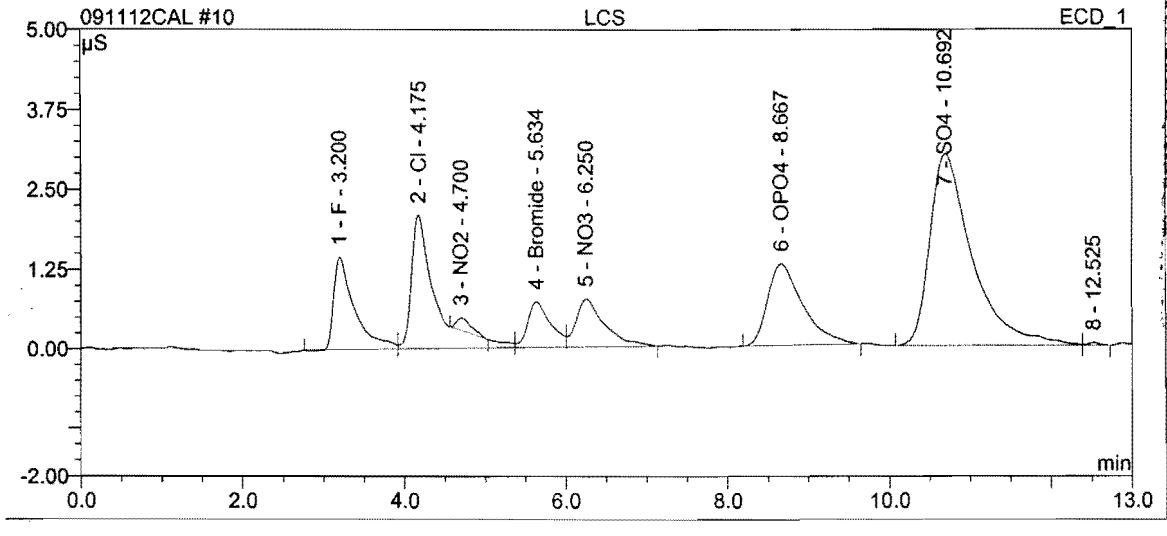
Integration Report - ECD_1

Sample Name:	**LCS**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:16**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	M	0.427	1.438	906.8081
2	4.18	Cl	M	0.734	2.087	1956.9764
3	4.70	NO2	Rd	0.045	0.197	164.0773
4	5.63	Bromide	M	0.238	0.720	1853.2947
5	6.25	NO3	MB	0.310	0.758	354.9703
6	8.67	OPO4	BMB	0.650	1.279	6988.7559
7	10.69	SO4	BM	1.830	2.998	7529.6556
		TOTAL:		4.23	9.48	19754.54

SEP 13 2012



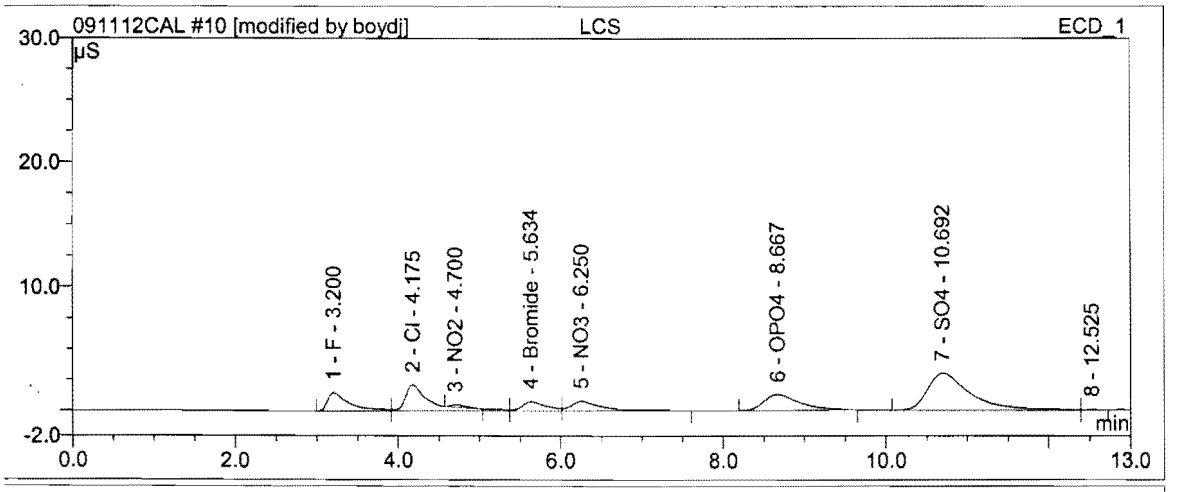


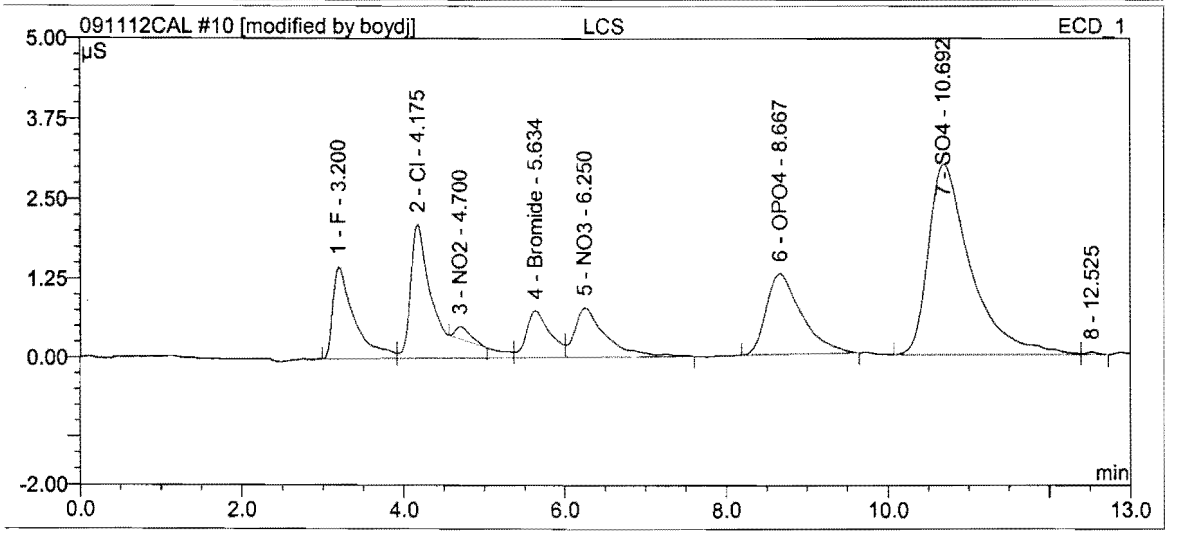
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing - F, NO3
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**LCS**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:16**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.20	F	BM *	0.445	1.452	944.9501
2	4.18	Cl	M *	0.762	2.104	2030.6824
3	4.70	NO2	Rd	0.045	0.197	164.0773
4	5.63	Bromide	M *	0.253	0.742	1967.3959
5	6.25	NO3	MB*	0.351	0.783	401.6781
6	8.67	OPO4	BMB	0.650	1.279	6988.7559
7	10.69	SO4	BM	1.830	2.998	7529.6556
		TOTAL:		4.34	9.56	20027.20



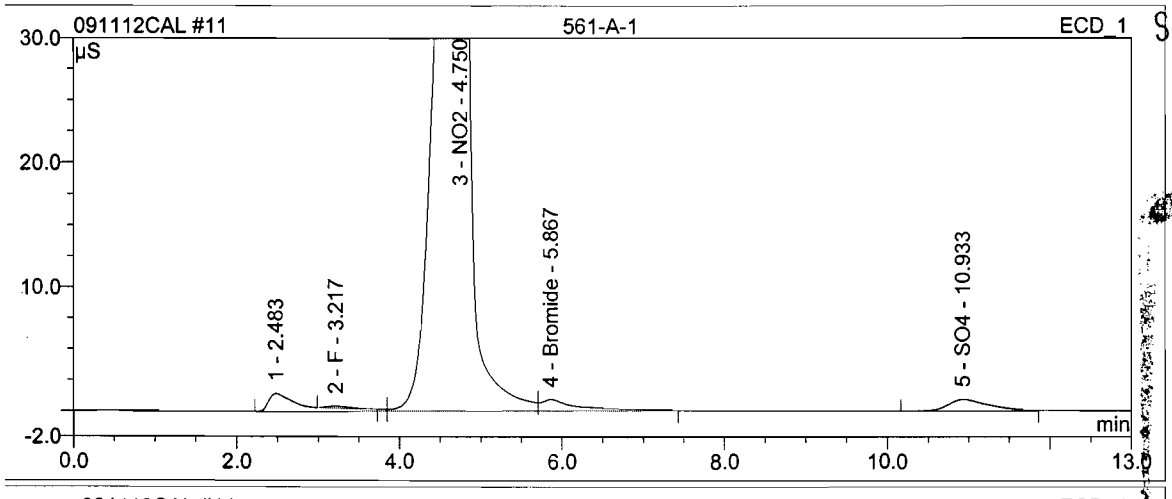


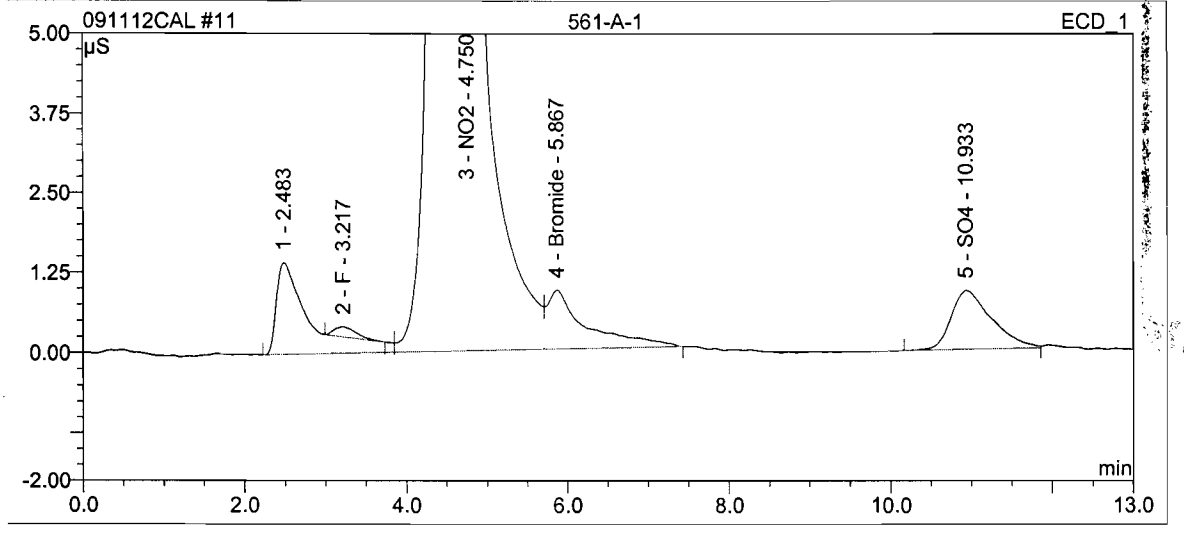
Integration Report - ECD_1

Sample Name:	**561-A-1**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:31**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	Rd	0.051	0.158	107.5271
3	4.75	NO2	M	41.792	174.197	153772.1908
4	5.87	Bromide	MB	0.521	0.916	4048.8938
5	10.93	SO4	BM	0.533	0.916	2190.8923
		TOTAL:		42.90	176.19	160119.50

MT
SB
SEP 13 2012



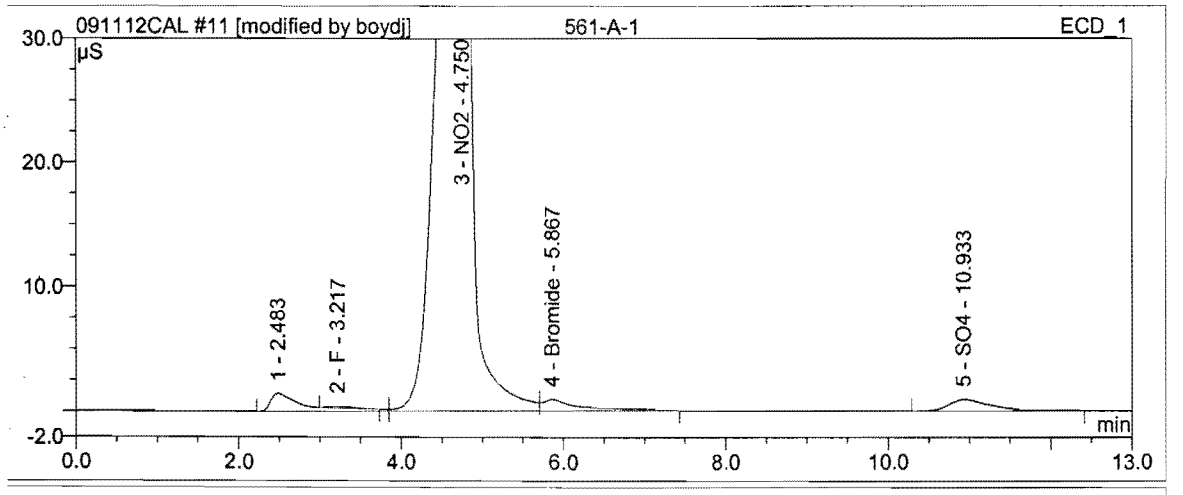


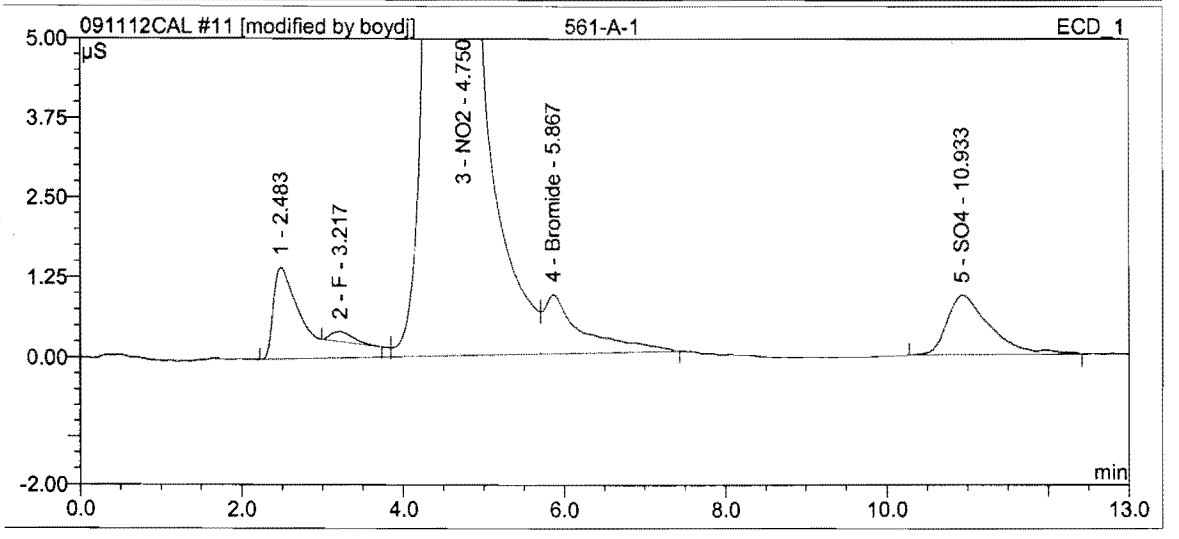
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -504
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**561-A-1**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:31**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	Rd	0.051	0.158	107.5271
3	4.75	NO2	M	41.792	174.197	153772.1908
4	5.87	Bromide	MB	0.521	0.916	4048.8938
5	10.93	SO4	BMB*	0.568	0.923	2337.2701
		TOTAL:		42.93	176.19	160265.88

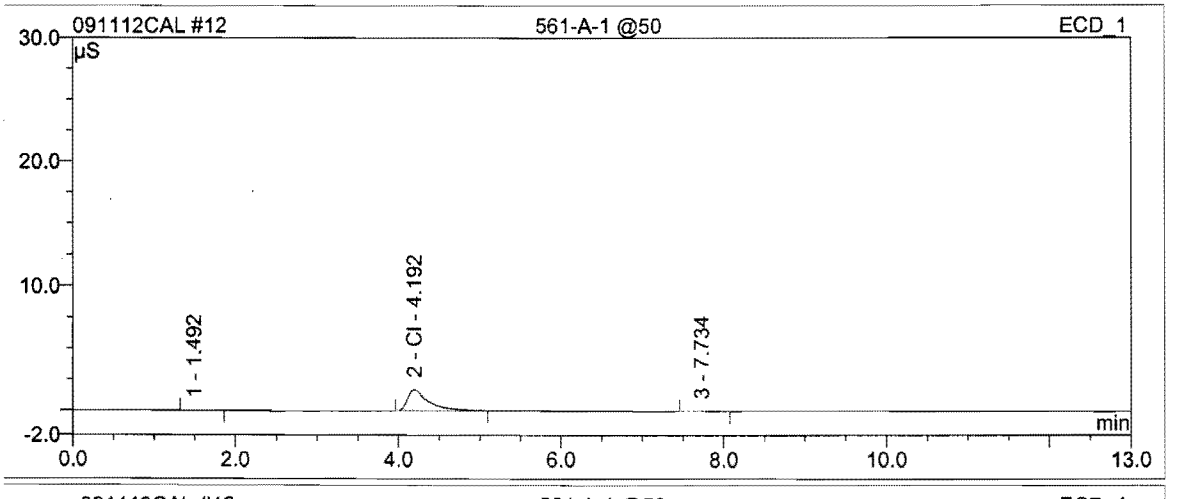


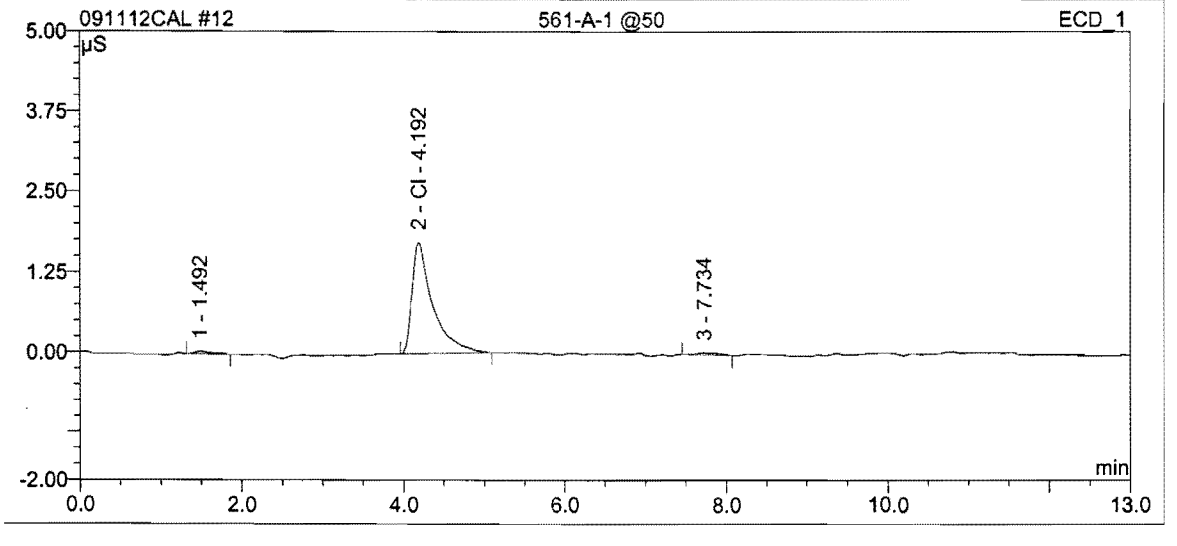


Integration Report - ECD_1

Sample Name:	**561-A-1 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 17:47**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.19	Cl	BMB	0.517	1.729	1376.9913
		TOTAL:		0.52	1.73	1376.99

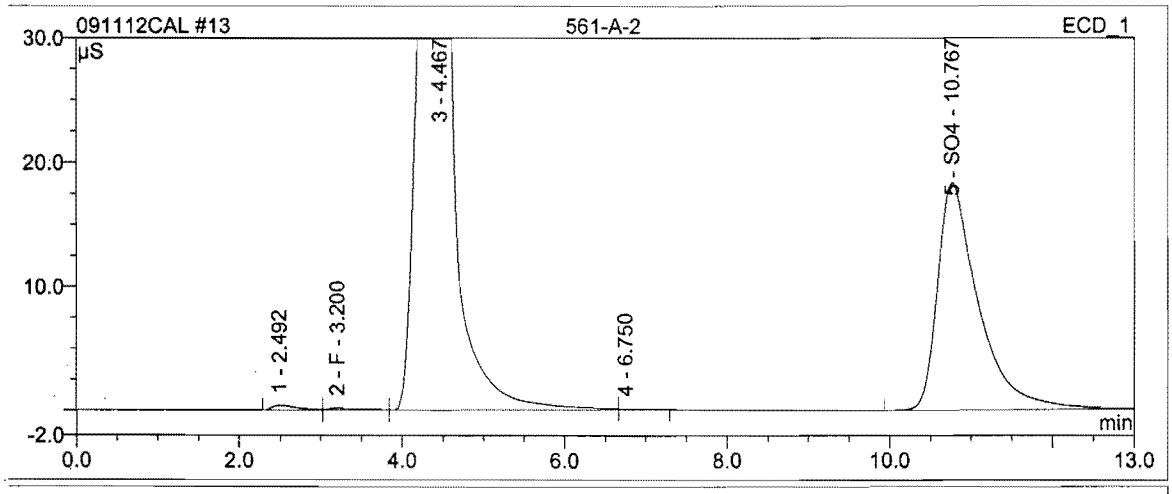


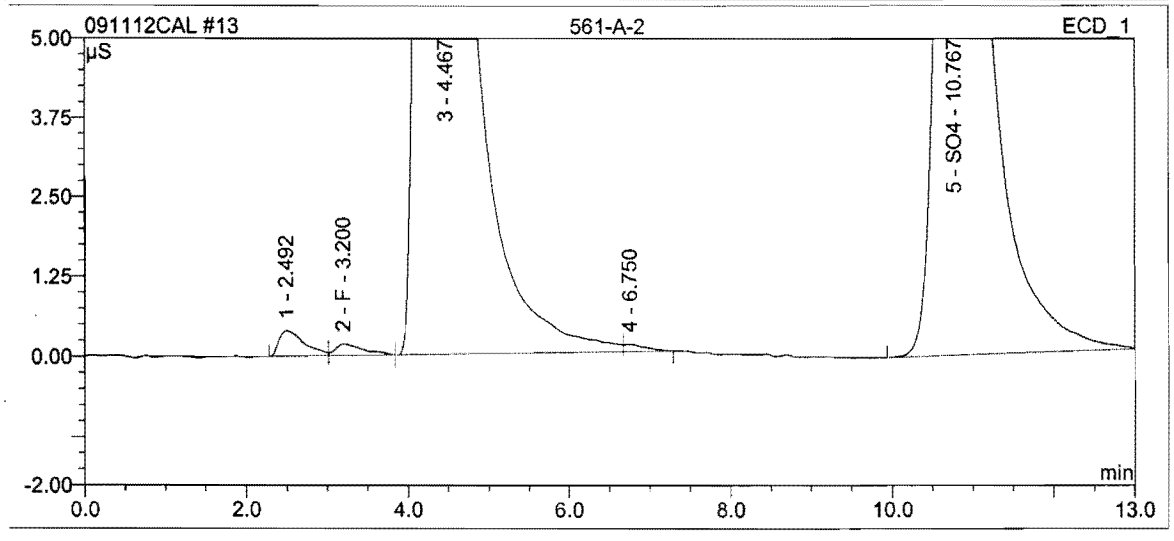


Integration Report - ECD_1

Sample Name:	**561-A-2**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 18:02**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.20	F	MB	0.072	0.179	153.0785
5	10.77	SO4	BMB	10.776	18.388	44333.3459
		TOTAL:		10.85	18.57	44486.42

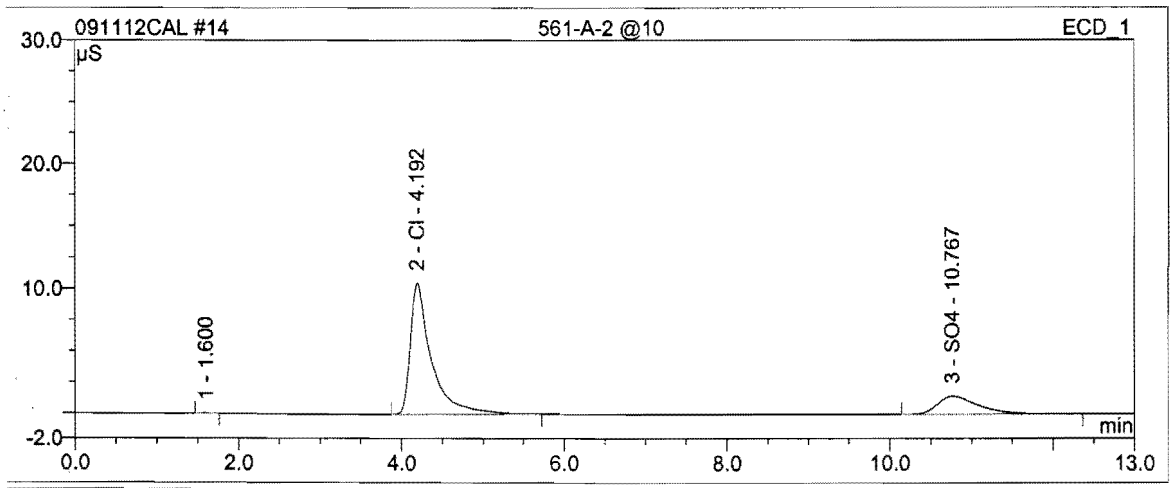


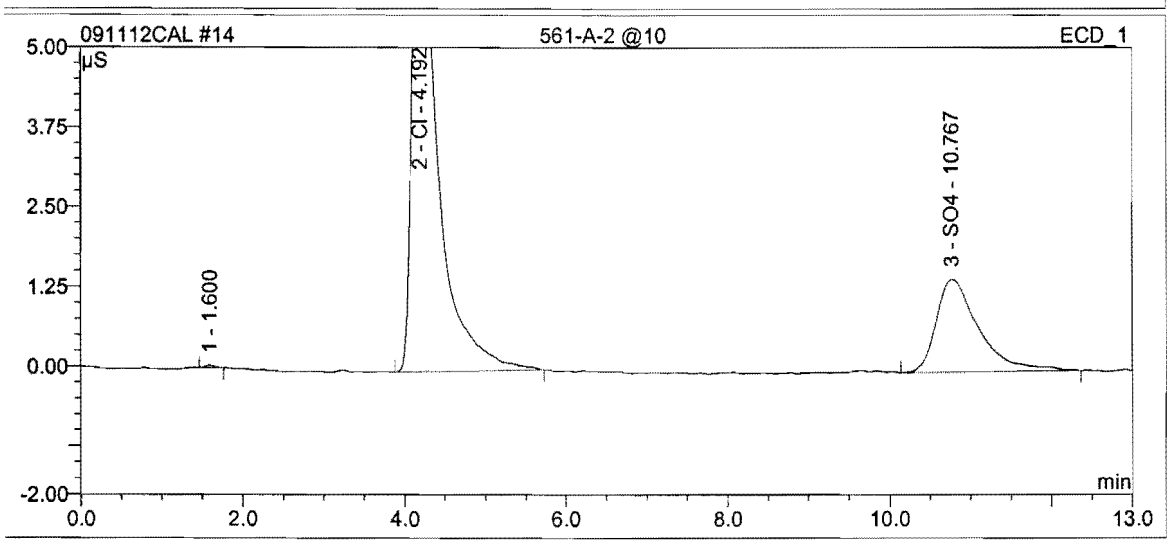


Integration Report - ECD_1

Sample Name:	**561-A-2 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 18:17**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.19	Cl	BMB	3.182	10.532	8482.7360
3	10.77	SO4	BMB	0.878	1.450	3610.0228
		TOTAL:		4.06	11.98	12092.76

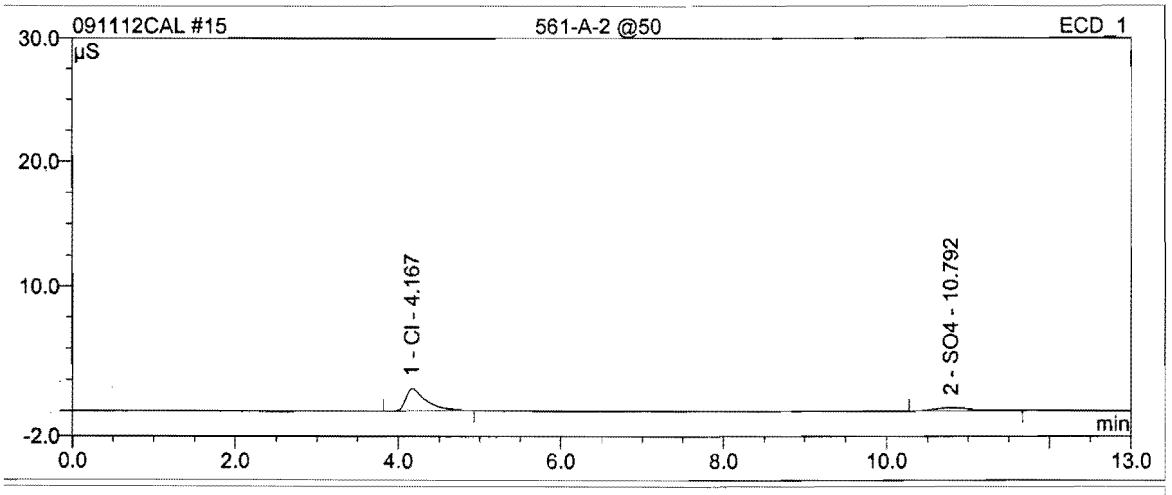


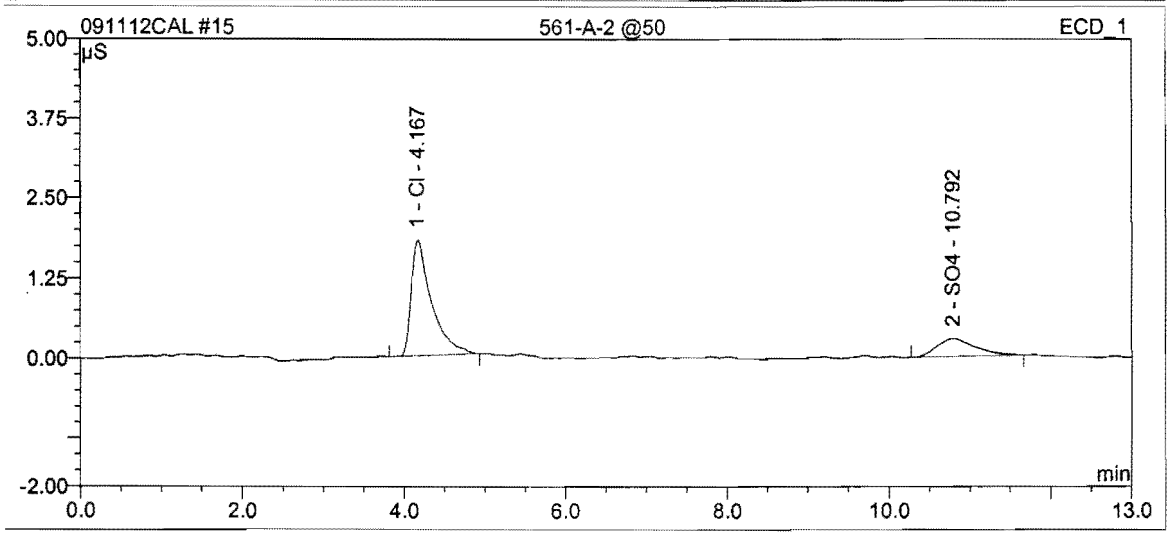


Integration Report - ECD_1

Sample Name:	**561-A-2 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 18:33**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.17	Cl	BMB	0.525	1.795	1398.4751
2	10.79	SO4	BMB	0.155	0.280	639.6588
		TOTAL:		0.68	2.07	2038.13

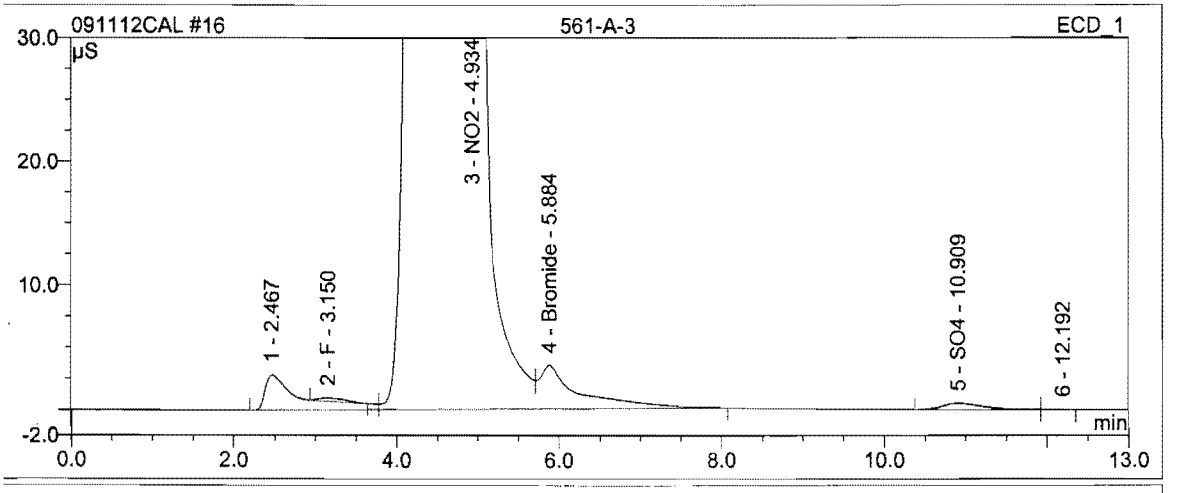


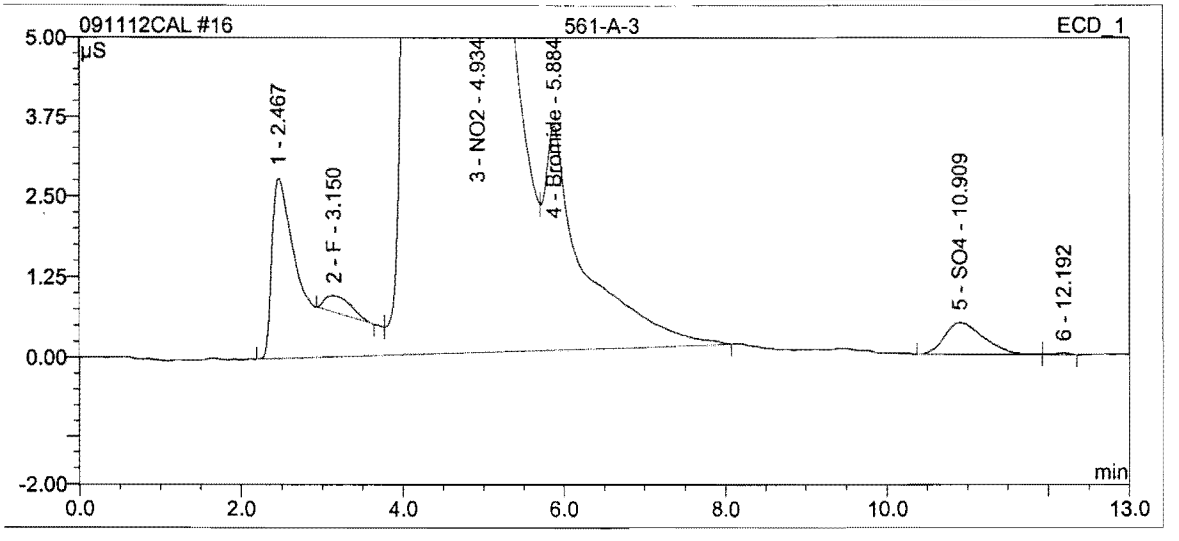


Integration Report - ECD_1

Sample Name:	**561-A-3**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 18:48**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.15	F	Rd	0.101	0.252	214.9902
3	4.93	NO2	M	214.228	387.800	788244.2399
4	5.88	Bromide	MB	2.059	3.486	16014.4656
5	10.91	SO4	BM	0.285	0.493	1173.5018
		TOTAL:		216.67	392.03	805647.20

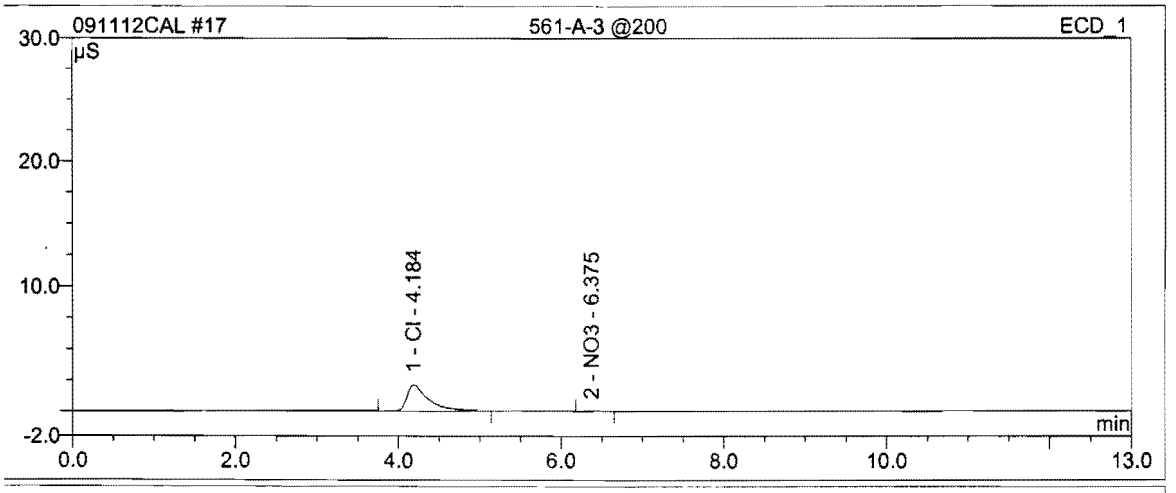


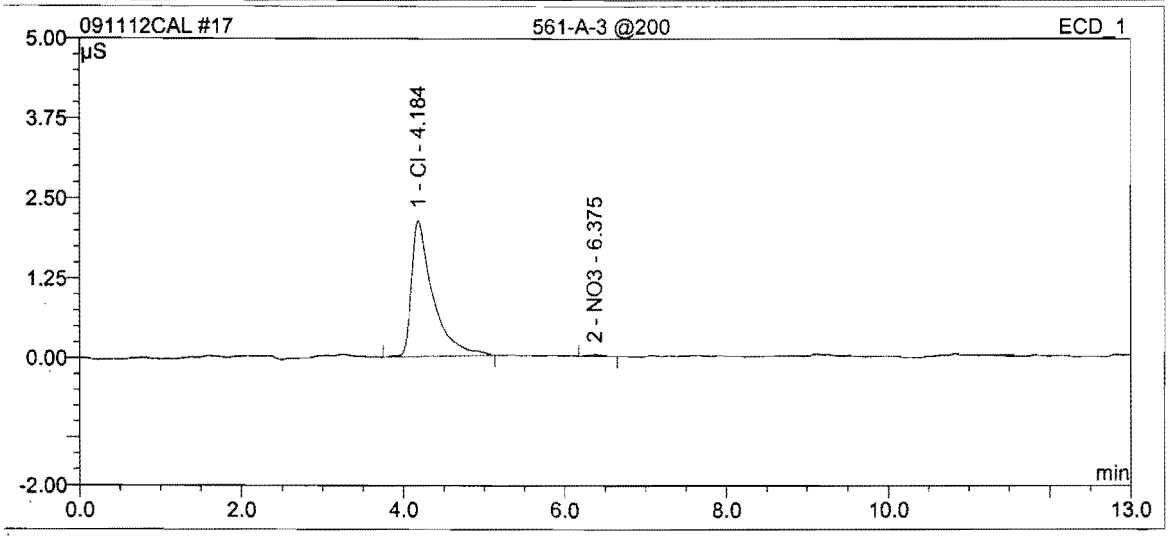


Integration Report - ECD_1

Sample Name:	**561-A-3 @200**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:04**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.18	Cl	BMB	0.658	2.126	1753.4595
2	6.38	NO3	BMB	0.006	0.028	7.1724
		TOTAL:		0.66	2.15	1760.63



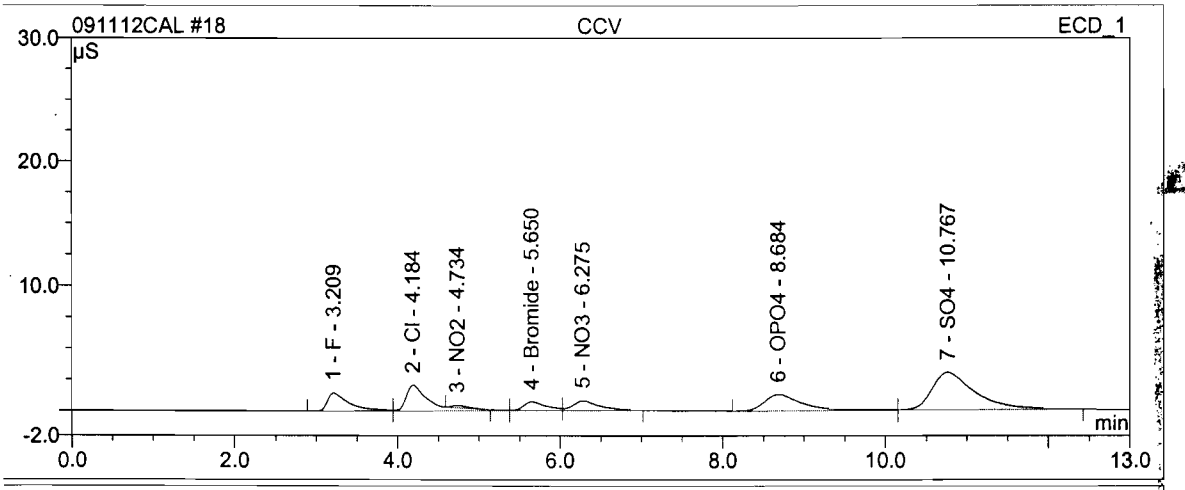


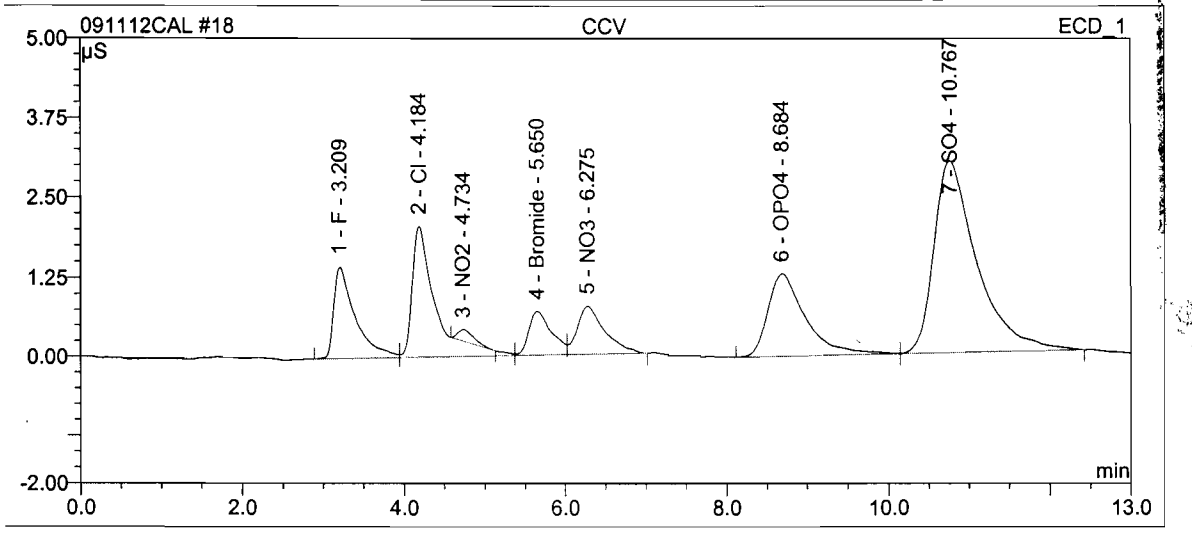
Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:19**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.21	F	BM	0.450	1.447	954.2759
2	4.18	Cl	M	0.706	2.055	1882.4981
3	4.73	NO2	Rd	0.043	0.184	159.9930
4	5.65	Bromide	M	0.230	0.701	1787.8146
5	6.28	NO3	MB	0.302	0.769	345.8543
6	8.68	OPO4	BM	0.714	1.306	7674.3319
7	10.77	SO4	MB	1.862	3.007	7661.3794
		TOTAL:		4.31	9.47	20466.15

MI
38
SEP 13 2012



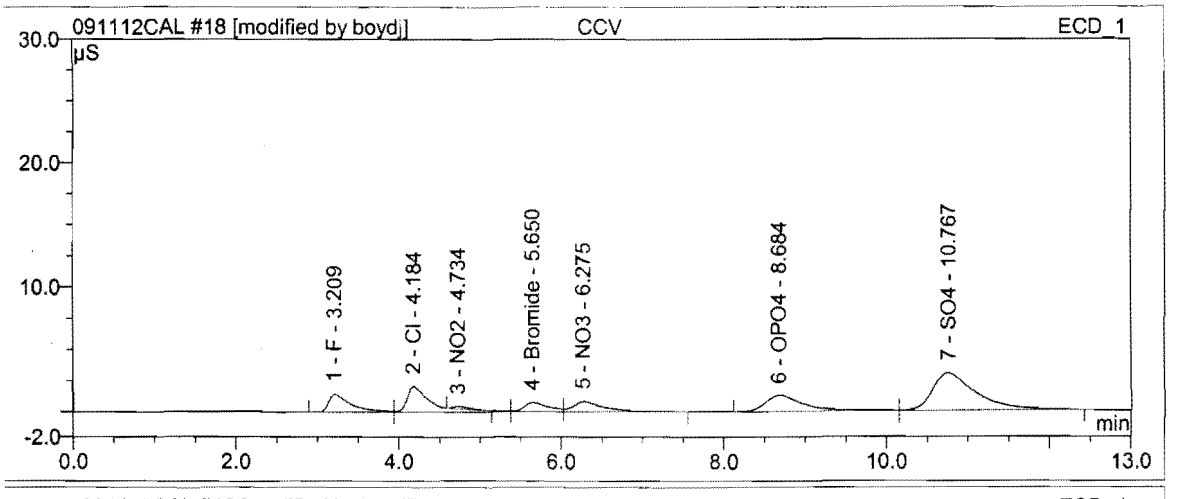


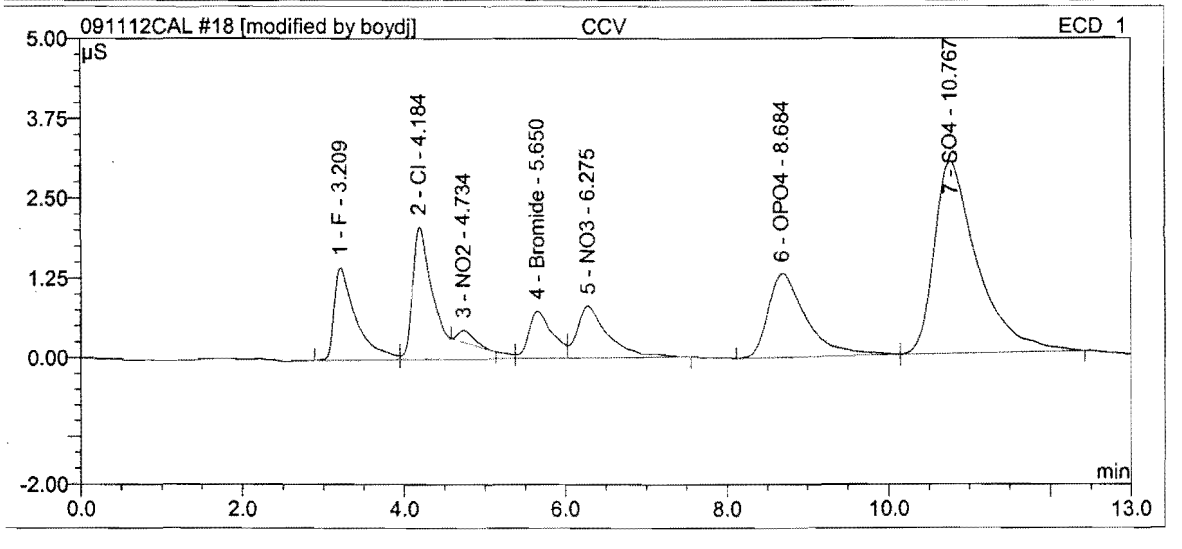
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing - N03
6. Split Peak
7. Other ____

Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:19**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.21	F	BM *	0.457	1.451	969.4656
2	4.18	Cl	M *	0.739	2.072	1970.1237
3	4.73	NO2	Rd	0.043	0.184	159.9930
4	5.65	Bromide	M *	0.254	0.736	1972.1460
5	6.28	NO3	MB*	0.364	0.813	416.8924
6	8.68	OPO4	BM	0.714	1.306	7674.3319
7	10.77	SO4	MB	1.862	3.007	7661.3794
		TOTAL:		4.43	9.57	20824.33

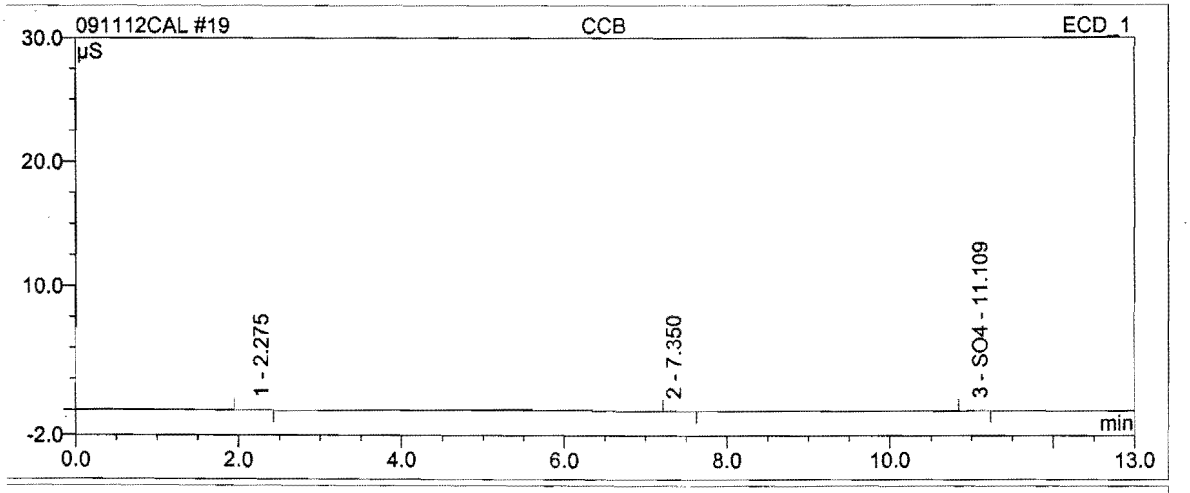


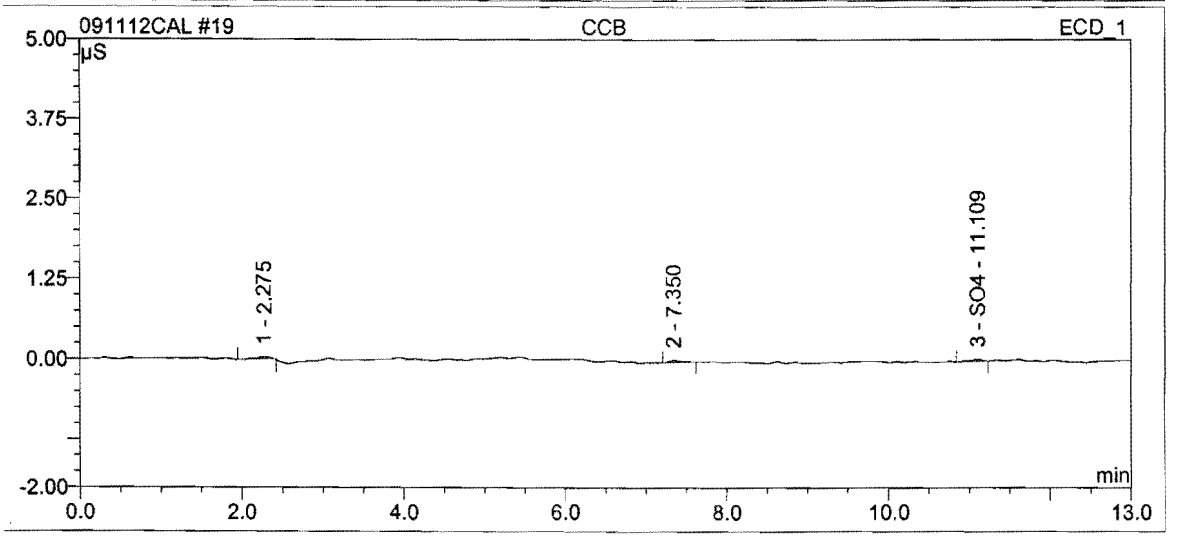


Integration Report - ECD_1

Sample Name:	**CCB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:34**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
3	11.11	SO4	BMB	0.005	0.027	21.4009
		TOTAL:		0.01	0.03	21.40



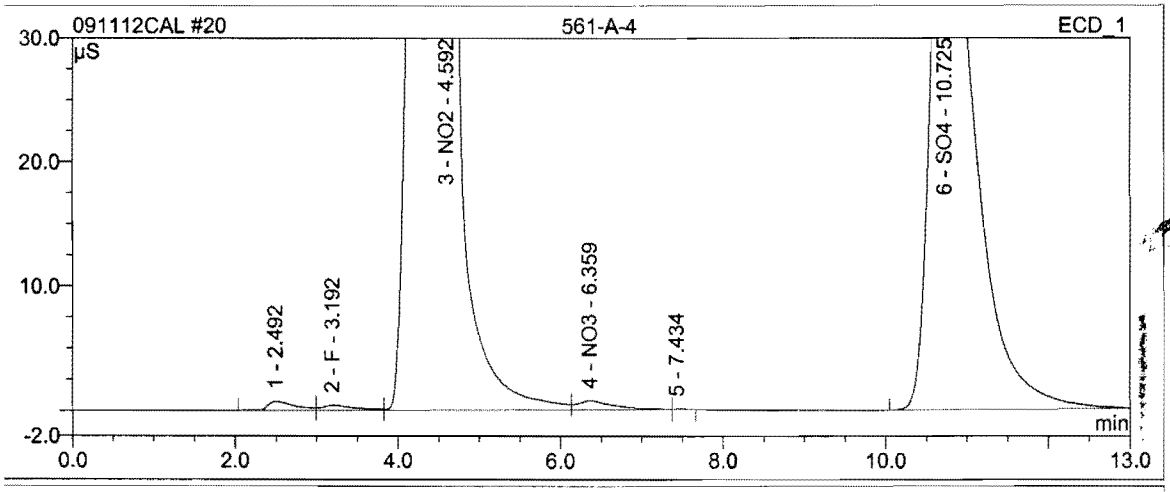


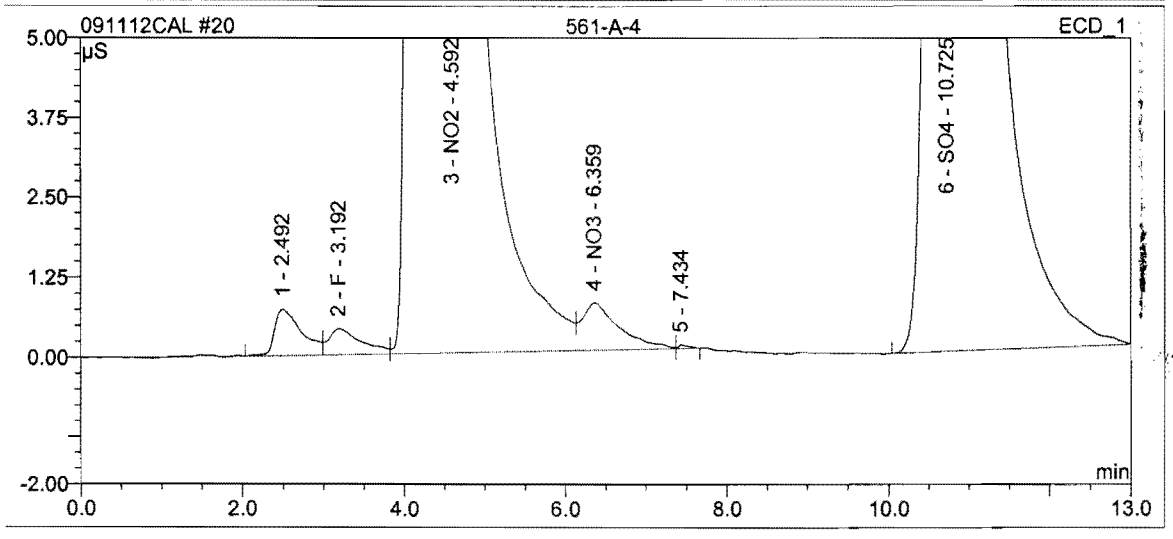
Integration Report - ECD_1

Sample Name:	**561-A-4**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:50**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.19	F	M	0.191	0.405	405.8215
3	4.59	NO2	M	91.815	240.930	337829.9267
4	6.36	NO3	M	0.398	0.743	455.2848
6	10.73	SO4	BMB	29.775	51.366	122493.0429
		TOTAL:		122.18	293.44	461184.08

MI
JB
SEP 13 2012



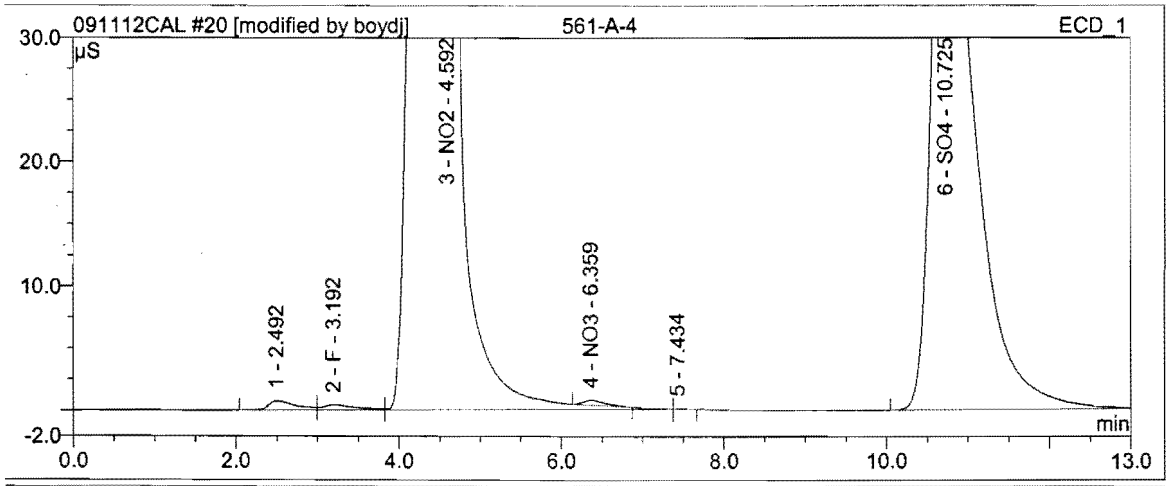


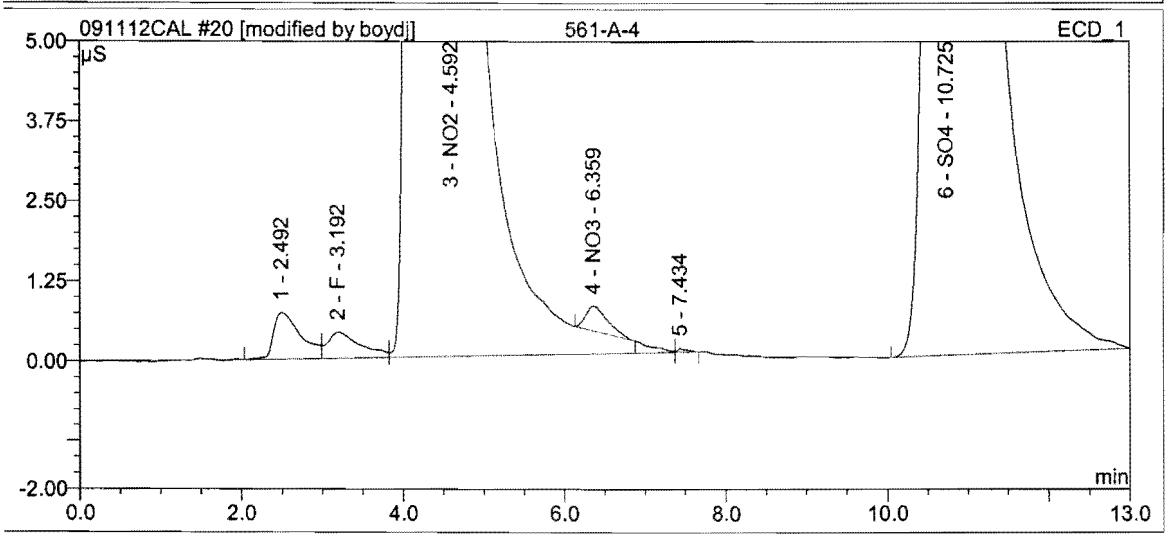
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -NO3=rider
6. Split Peak
7. Other ____

Integration Report - ECD_1

Sample Name:	**561-A-4**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 19:50**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.19	F	M	0.191	0.405	405.8215
3	4.59	NO2	M *	92.088	240.930	338835.1078
4	6.36	NO3	Rd*	0.124	0.387	142.4925
6	10.73	SO4	BMB	29.775	51.366	122493.0429
		TOTAL:		122.18	293.09	461876.46

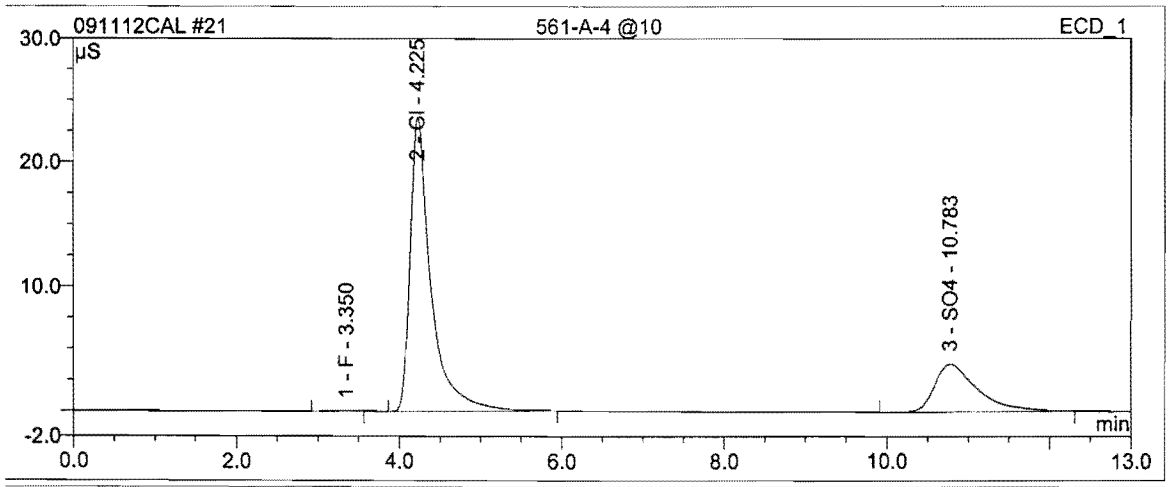


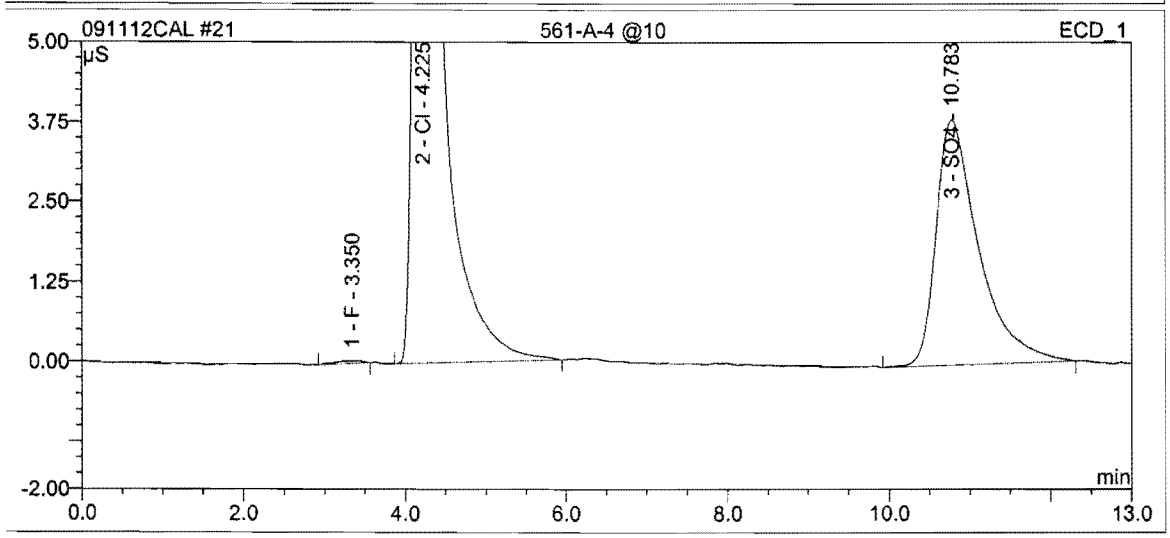


Integration Report - ECD_1

Sample Name:	**561-A-4 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 20:05**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.35	F	BMB	0.017	0.045	36.6578
2	4.23	Cl	BMB	7.026	23.664	18727.1566
3	10.78	SO4	BMB	2.342	3.836	9634.6697
		TOTAL:		9.38	27.54	28398.48

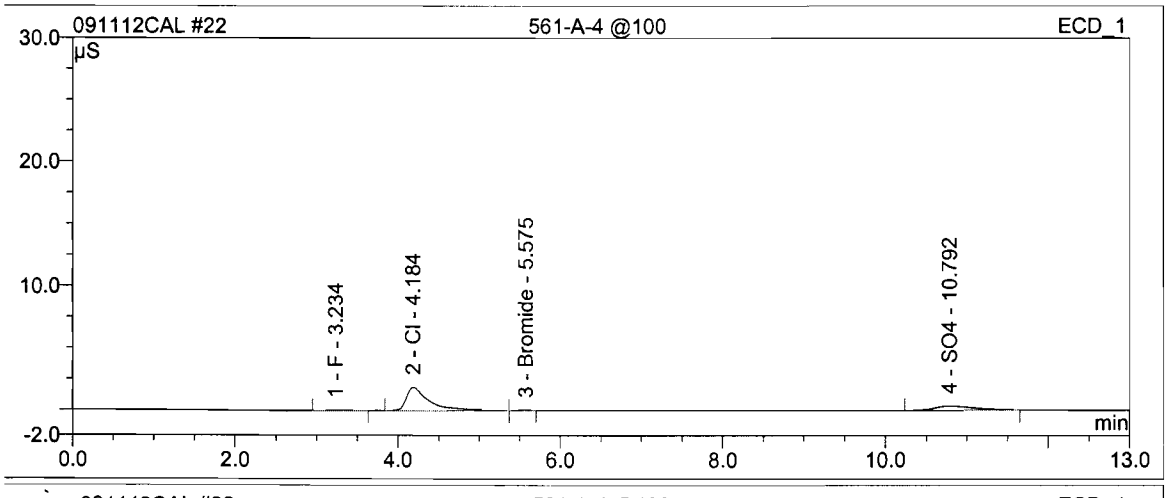


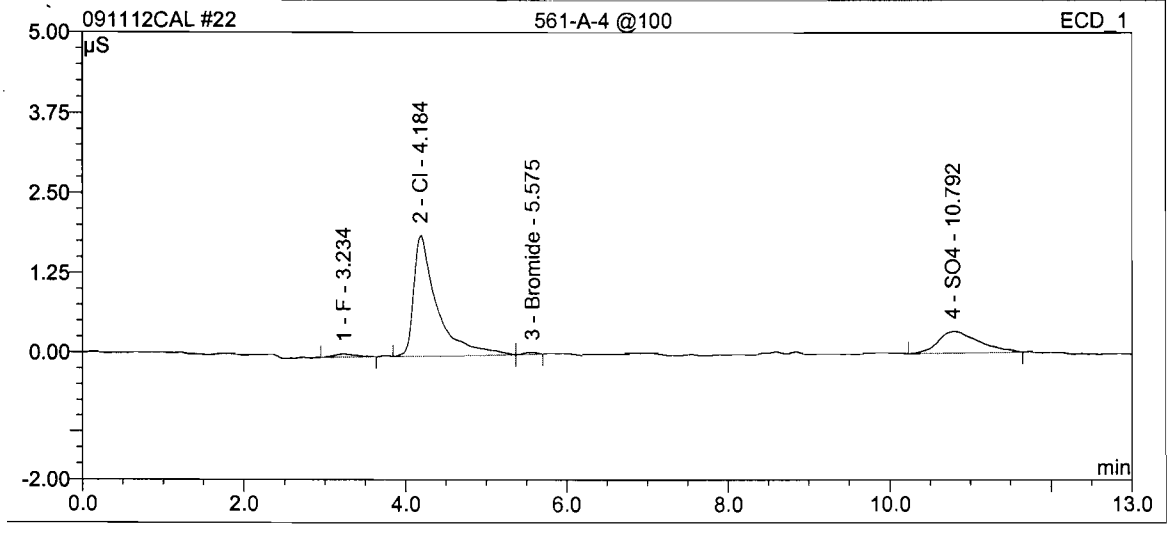


Integration Report - ECD_1

Sample Name:	**561-A-4 @100**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 20:21**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.23	F	BMB	0.017	0.048	35.1370
2	4.18	Cl	BMb	0.637	1.890	1698.1451
3	5.58	Bromide	bMB	0.006	0.031	44.9077
4	10.79	SO4	BMB	0.199	0.335	819.0902
		TOTAL:		0.86	2.30	2597.28



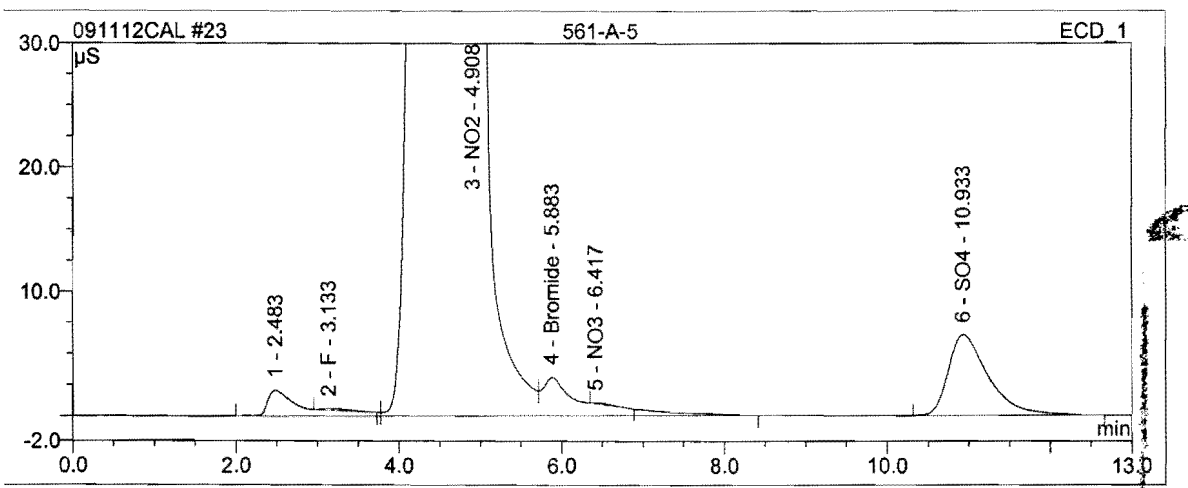


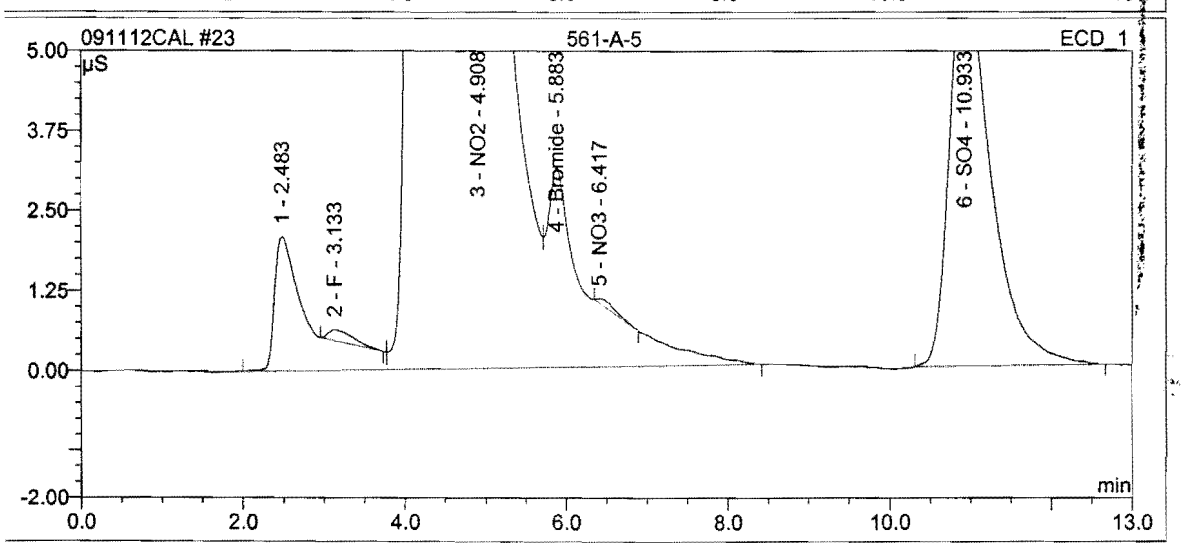
Integration Report - ECD_1

Sample Name:	**561-A-5**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 20:36**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.13	F	Rd	0.065	0.171	138.0285
3	4.91	NO2	M	205.309	379.451	755427.1404
4	5.88	Bromide	MB	1.993	3.114	15496.0441
5	6.42	NO3	Rd	0.026	0.071	29.5067
6	10.93	SO4	BMB	3.703	6.492	15234.9620
		TOTAL:		211.10	389.30	786325.68

MI
SB
SEP 13 2012



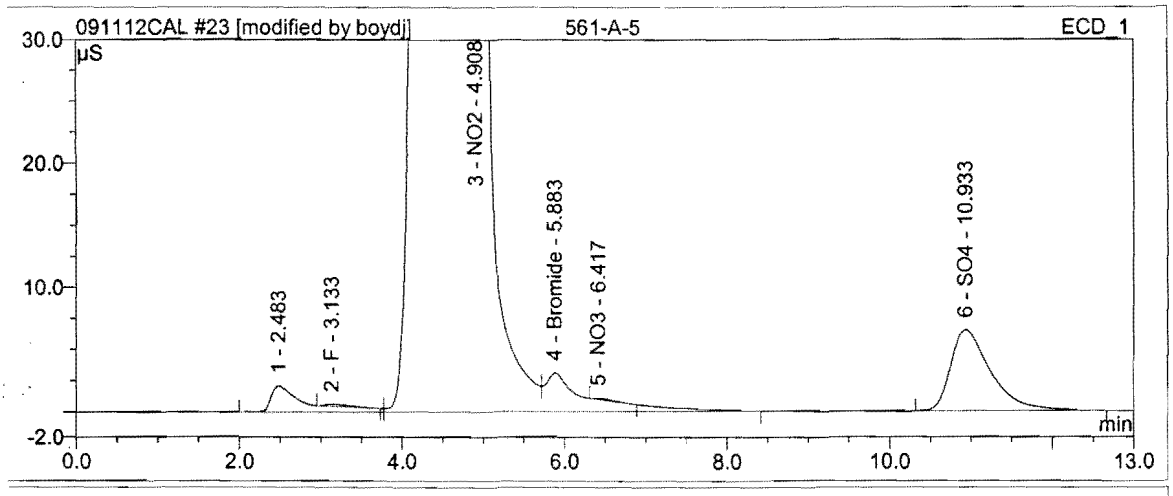


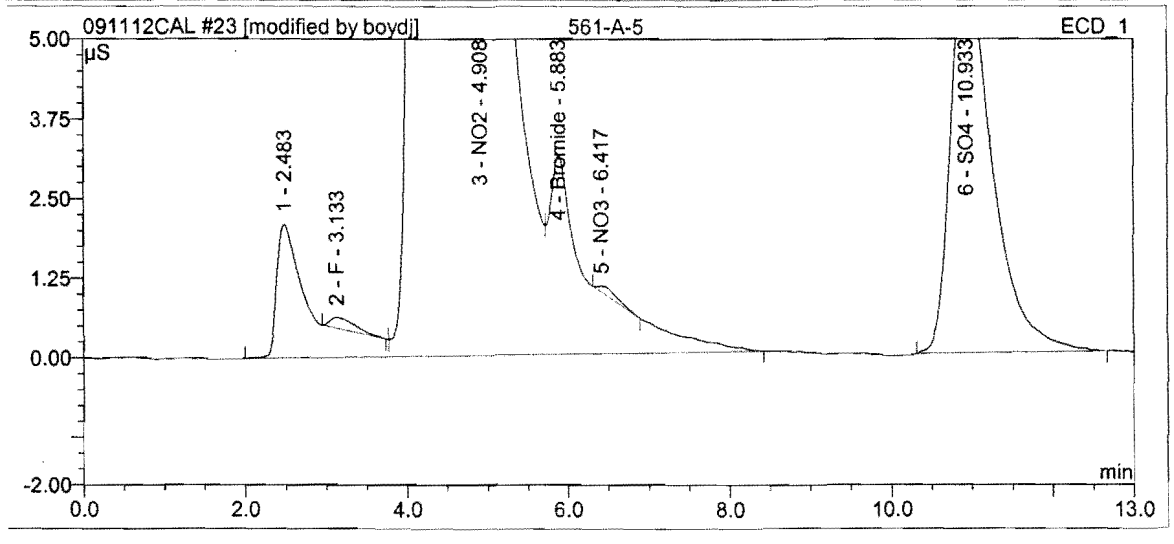
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -N03
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**561-A-5**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 20:36**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.13	F	Rd	0.065	0.171	138.0285
3	4.91	NO2	M	205.309	379.451	755427.1404
4	5.88	Bromide	MB*	1.985	3.114	15437.0076
5	6.42	NO3	Rd*	0.033	0.094	38.1987
6	10.93	SO4	BMB	3.703	6.492	15234.9620
		TOTAL:		211.10	389.32	786275.34

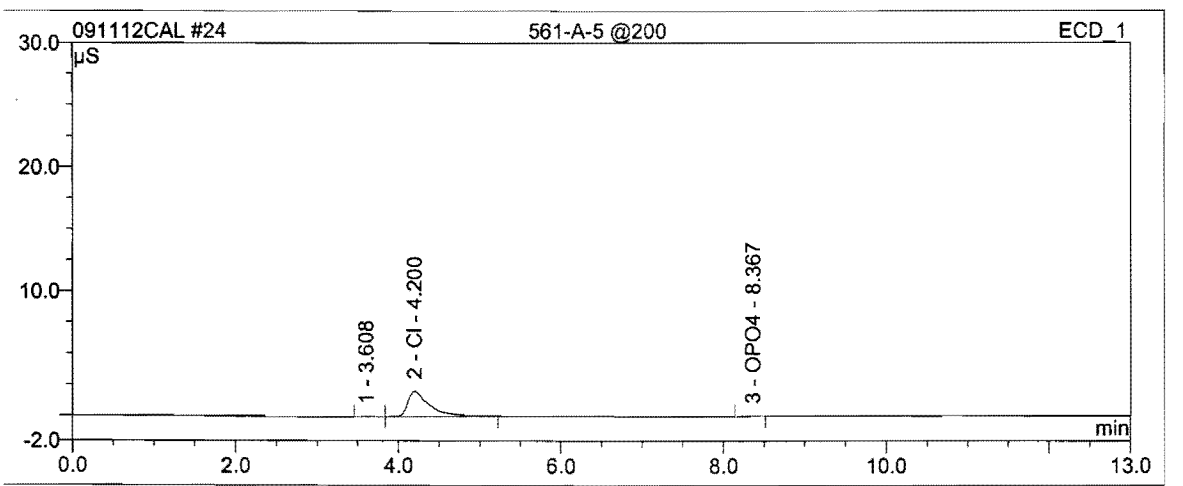


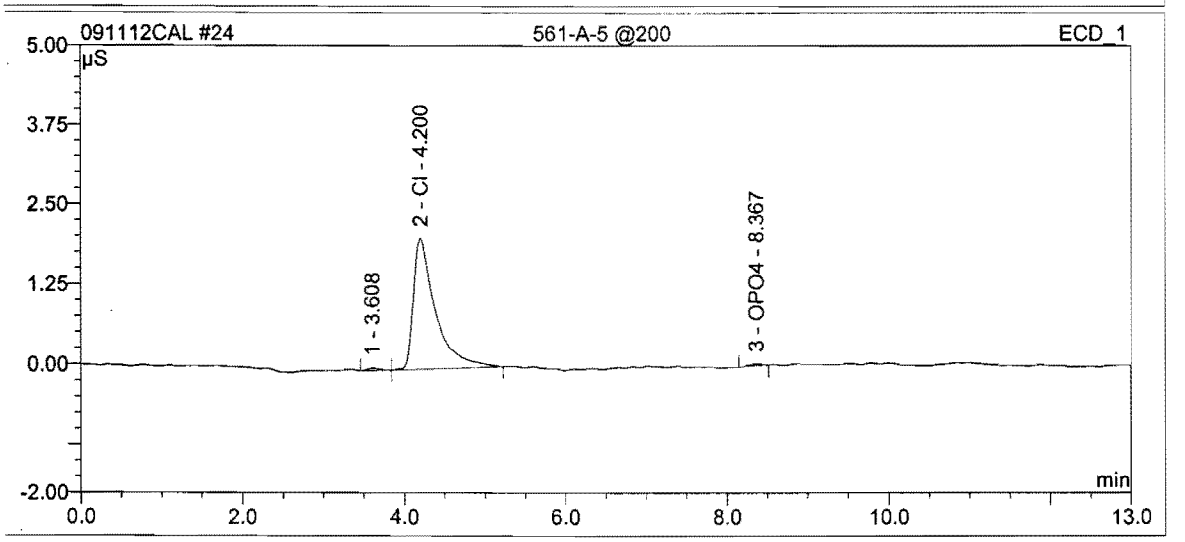


Integration Report - ECD_1

Sample Name:	**561-A-5 @200**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 20:52**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.20	Cl	bMB	0.648	2.038	1726.0133
3	8.37	OPO4	BMB	0.006	0.029	63.3949
		TOTAL:		0.65	2.07	1789.41



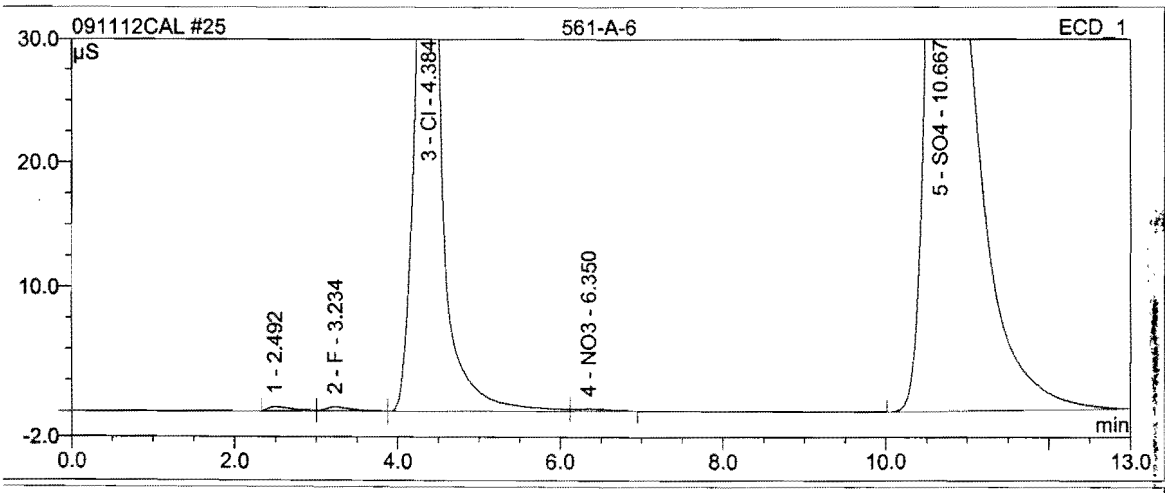


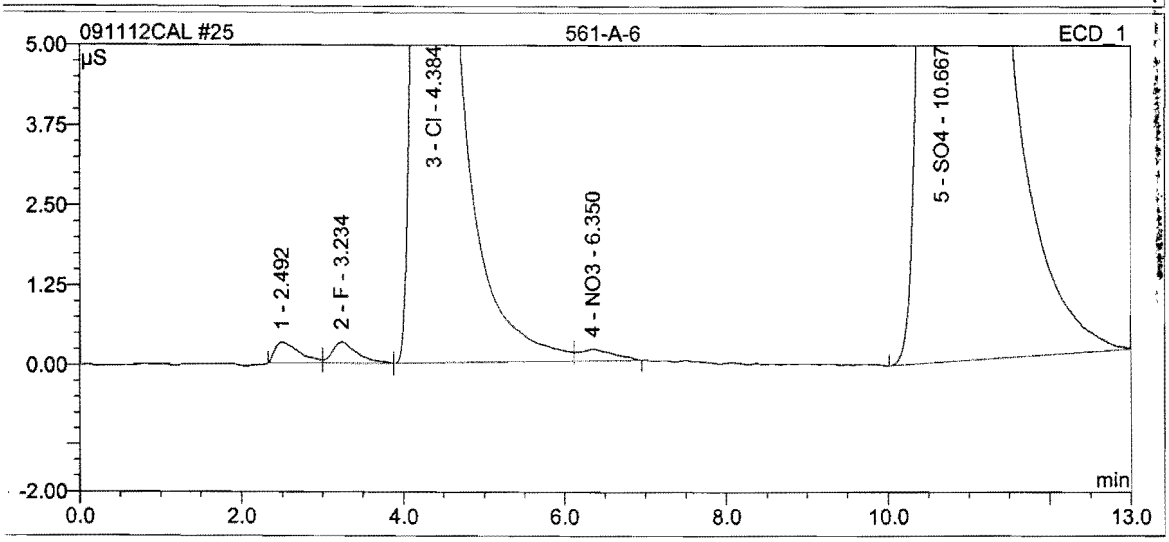
Integration Report - ECD_1

Sample Name:	**561-A-6**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:07**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	Mb	0.118	0.334	250.7255
3	4.38	Cl	bM	22.345	82.190	59561.8449
4	6.35	NO3	MB	0.090	0.182	103.3607
5	10.67	SO4	BMB	38.475	64.182	158283.7472
		TOTAL:		61.03	146.89	218199.68

MI
JB
SEP 13 2012



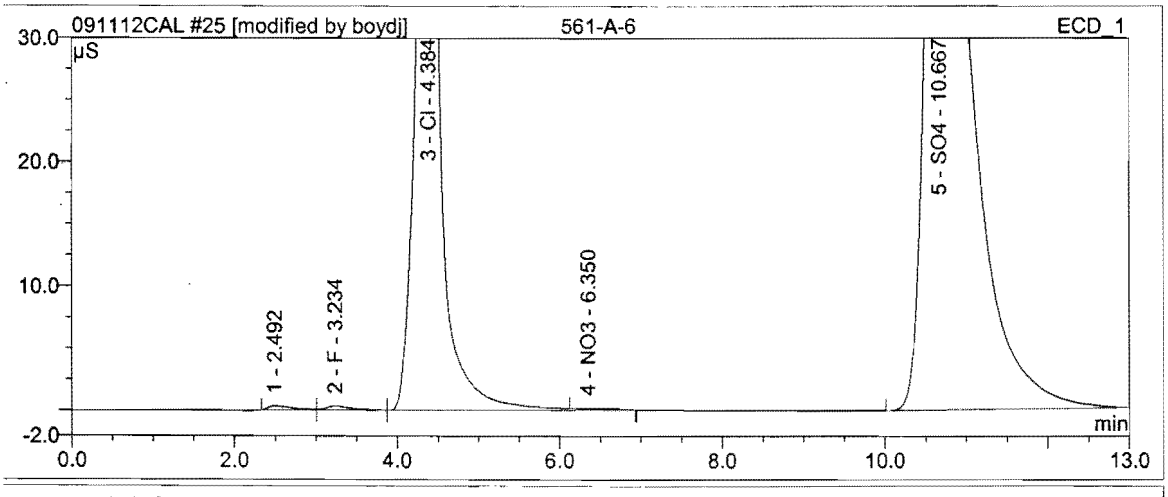


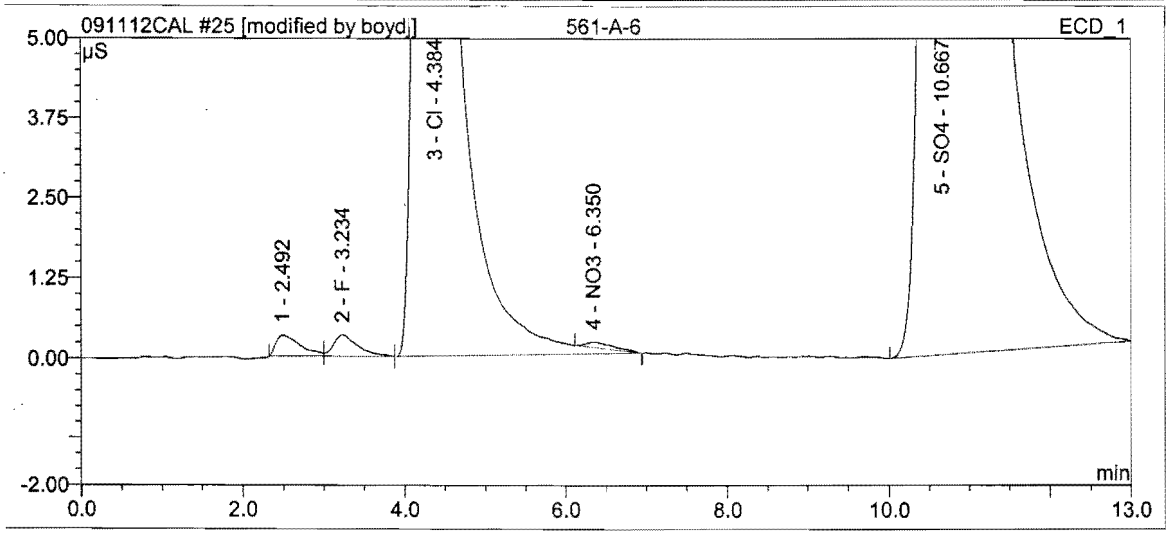
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -NO3 = rider
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**561-A-6**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:07**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	Mb	0.118	0.334	250.7255
3	4.38	Cl	bMB*	22.401	82.190	59710.1574
4	6.35	NO3	Rd*	0.035	0.085	39.6433
5	10.67	SO4	BMB	38.475	64.182	158283.7472
			TOTAL:	61.03	146.79	218284.27



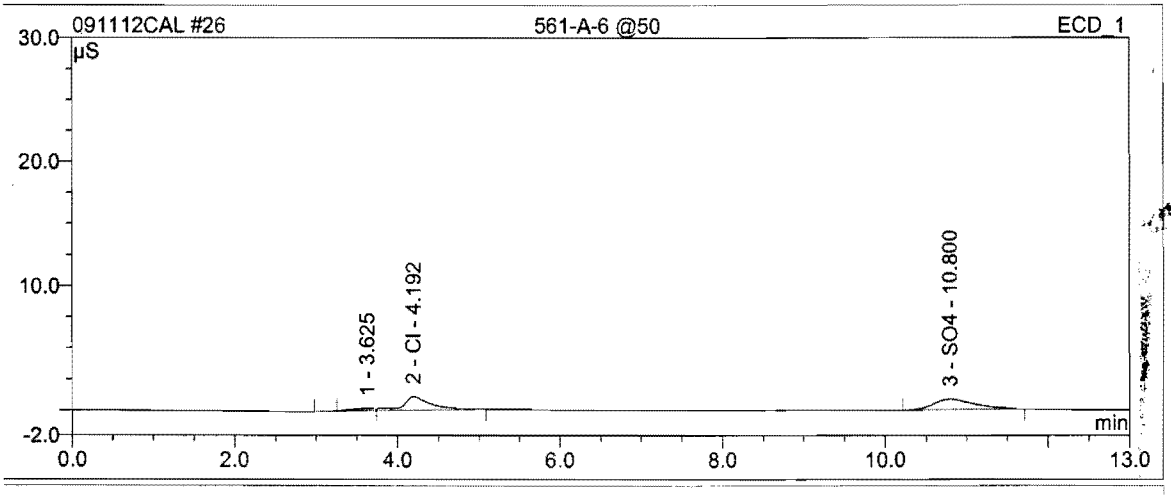


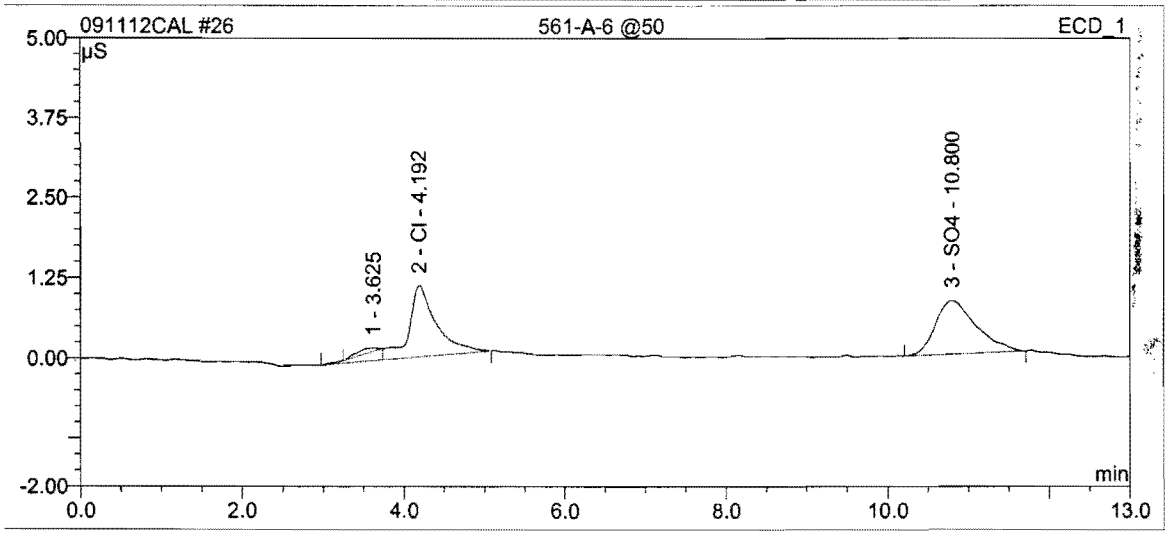
Integration Report - ECD_1

Sample Name:	**561-A-6 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:22**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.19	Cl	BMB	0.502	1.105	1337.1259
3	10.80	SO4	BMB	0.487	0.831	2003.5307
		TOTAL:		0.99	1.94	3340.66

mI
SB
SEP 13 2012



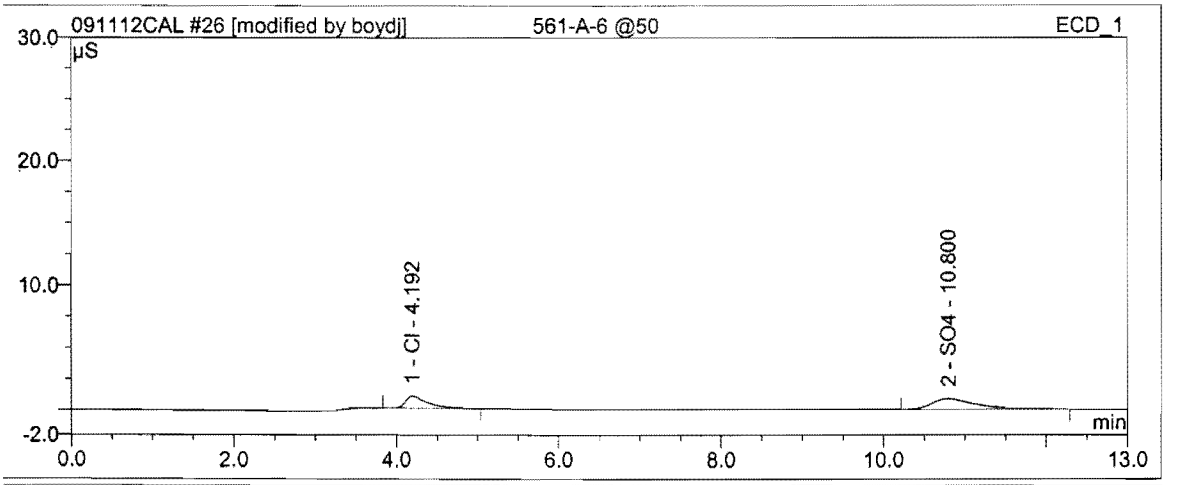


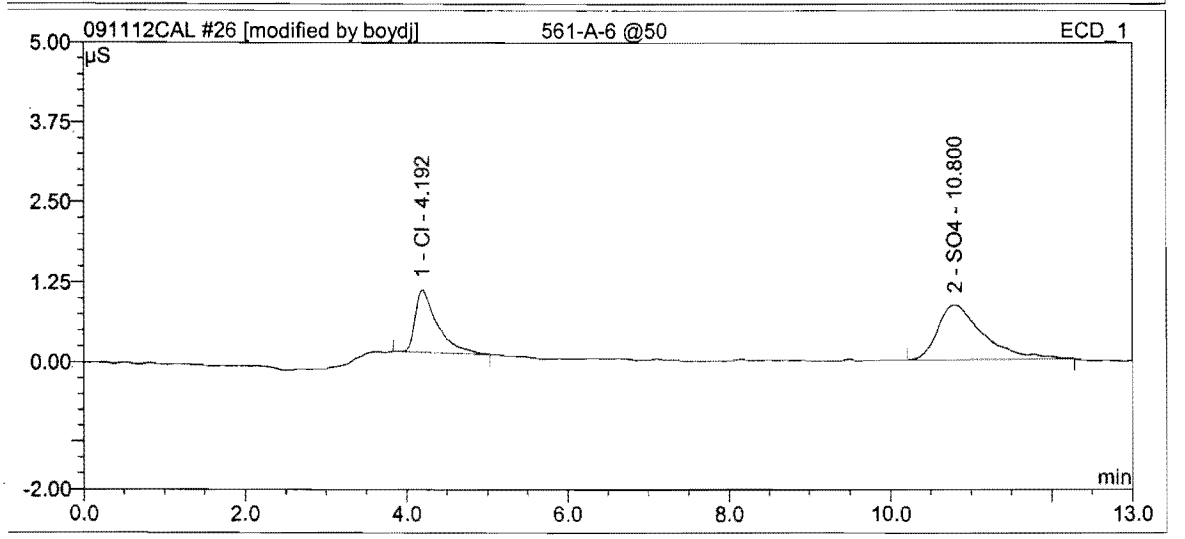
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -Cl, SO4
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**561-A-6 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:22**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.19	Cl	BMB*	0.310	0.973	825.0333
2	10.80	SO4	BMB*	0.559	0.857	2298.6733
		TOTAL:		0.87	1.83	3123.71



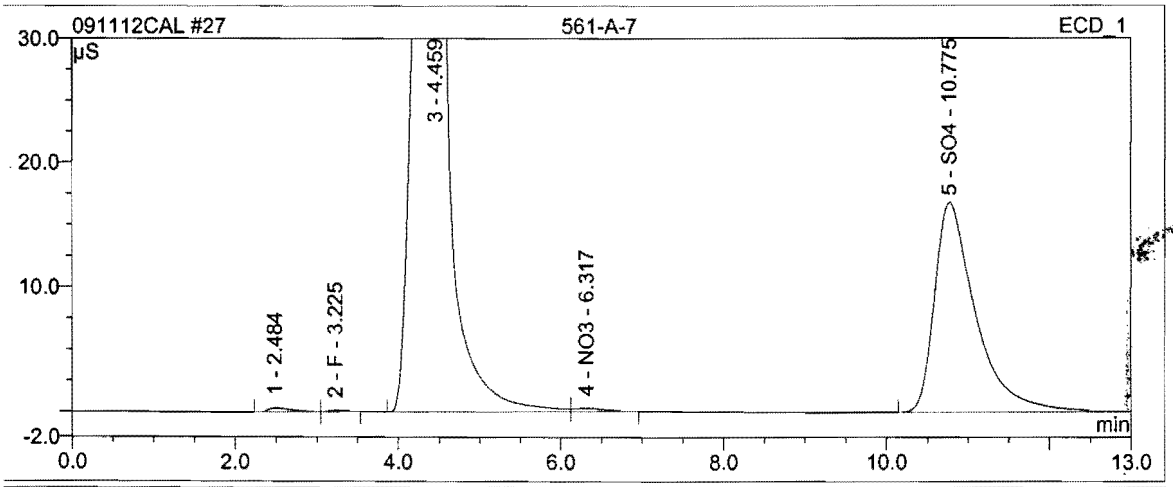


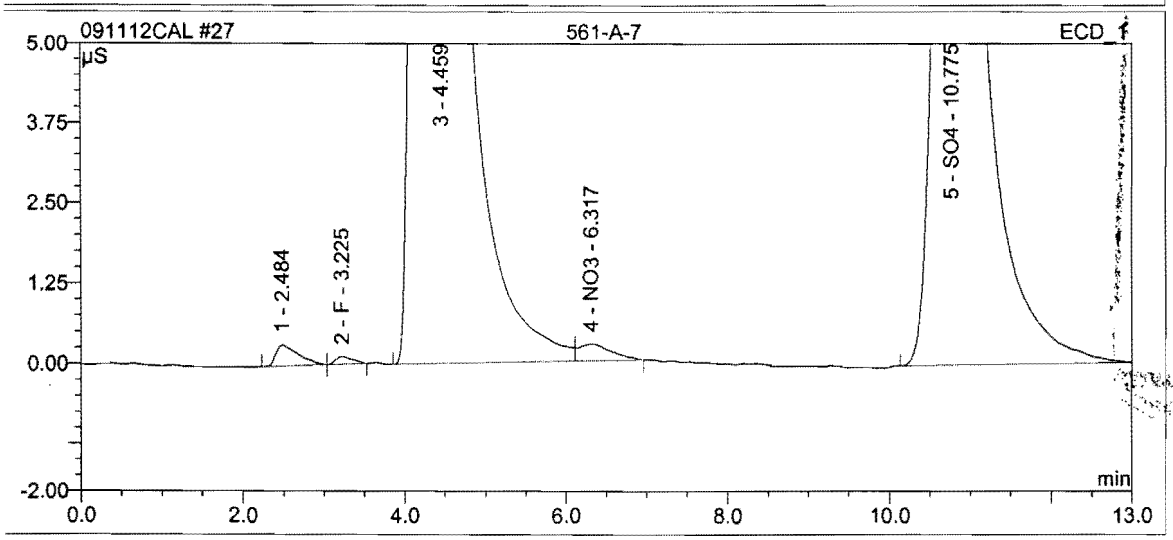
Integration Report - ECD_1

Sample Name:	**561-A-7**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:38**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	bMB	0.030	0.118	62.7757
4	6.32	NO3	MB	0.121	0.258	138.8378
5	10.78	SO4	BMB	9.838	16.837	40474.6299
		TOTAL:		9.99	17.21	40676.24

MI
JB
SEP 13 2012



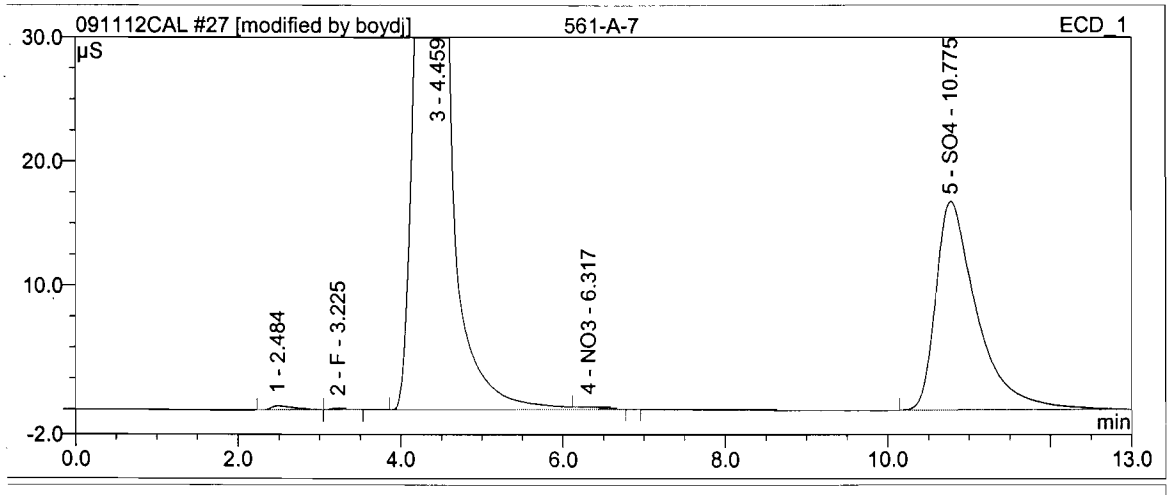


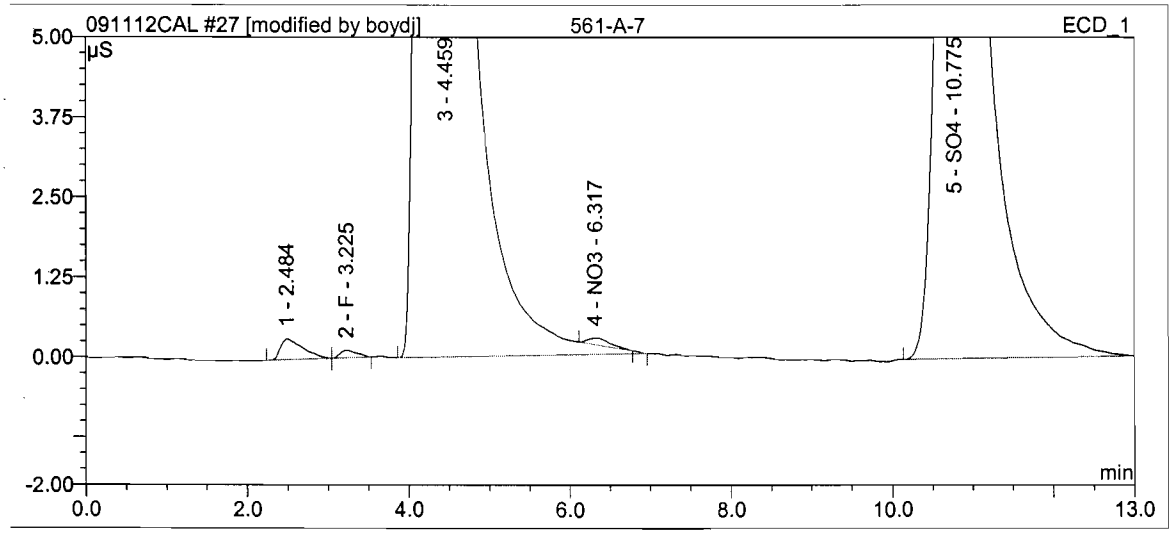
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -NO3=rider
6. Split Peak
7. Other: _____

Integration Report - ECD_1

Sample Name:	**561-A-7**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:38**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	bMB	0.030	0.118	62.7757
4	6.32	NO3	Rd*	0.035	0.103	39.9761
5	10.78	SO4	BMB	9.838	16.837	40474.6299
		TOTAL:		9.90	17.06	40577.38

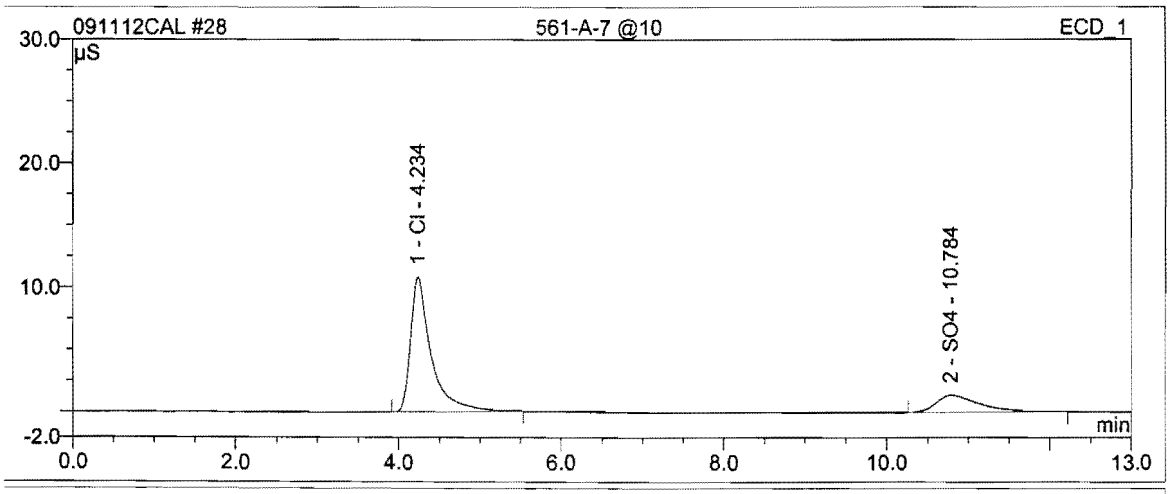


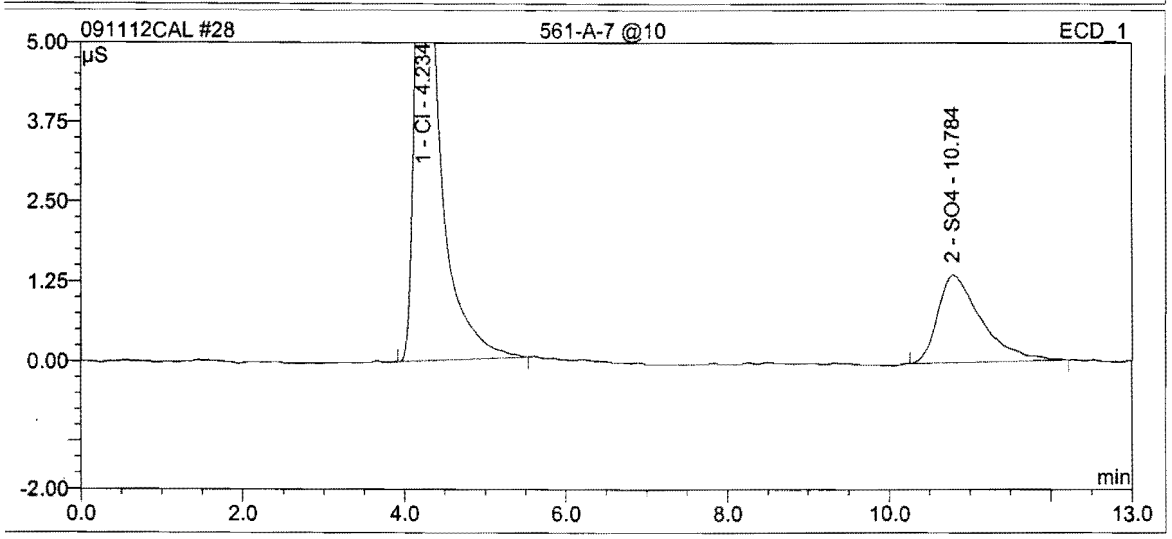


Integration Report - ECD_1

Sample Name:	**561-A-7 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 21:53**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.23	Cl	BMB	3.169	10.847	8447.4620
2	10.78	SO4	BMB	0.850	1.367	3496.0501
		TOTAL:		4.02	12.21	11943.51

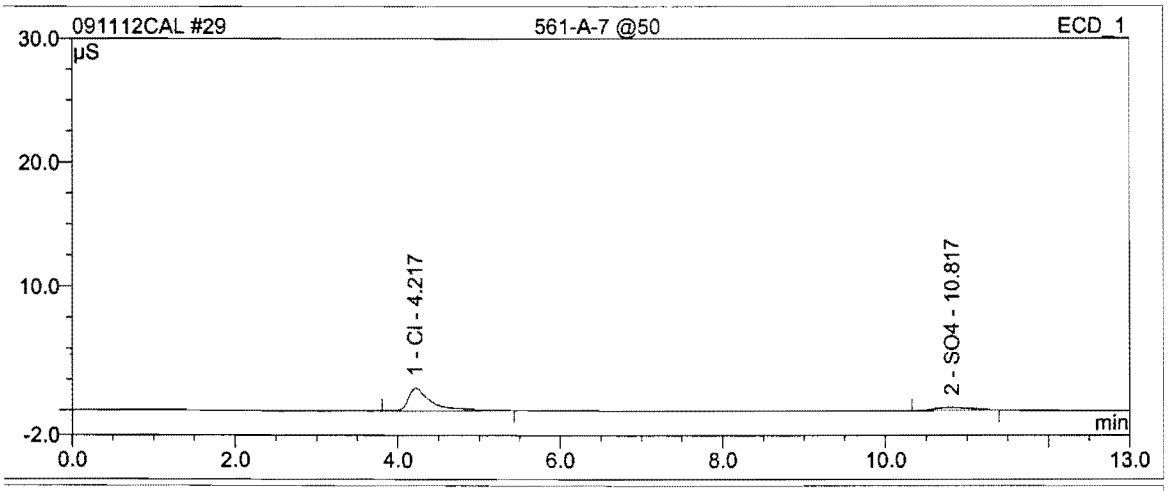


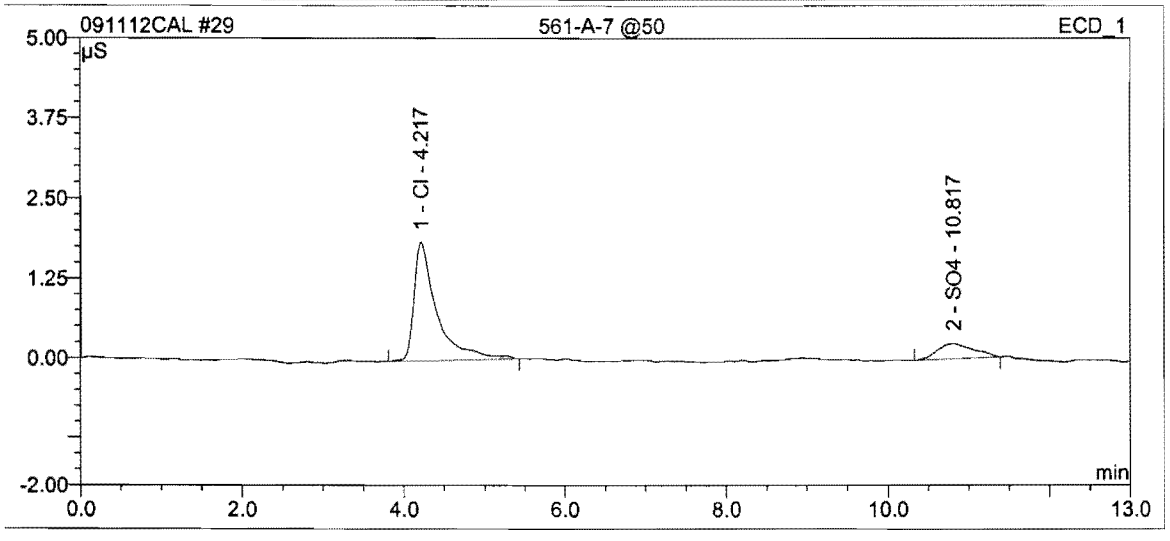


Integration Report - ECD_1

Sample Name:	**561-A-7 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:09**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.22	Cl	BMB	0.617	1.859	1643.6408
2	10.82	SO4	BMB	0.125	0.241	514.1978
		TOTAL:		0.74	2.10	2157.84



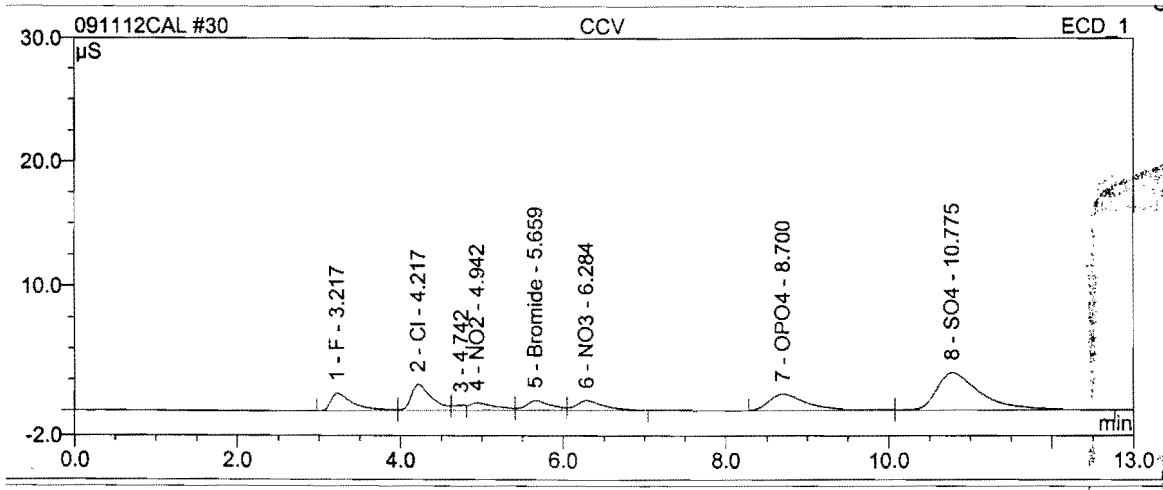


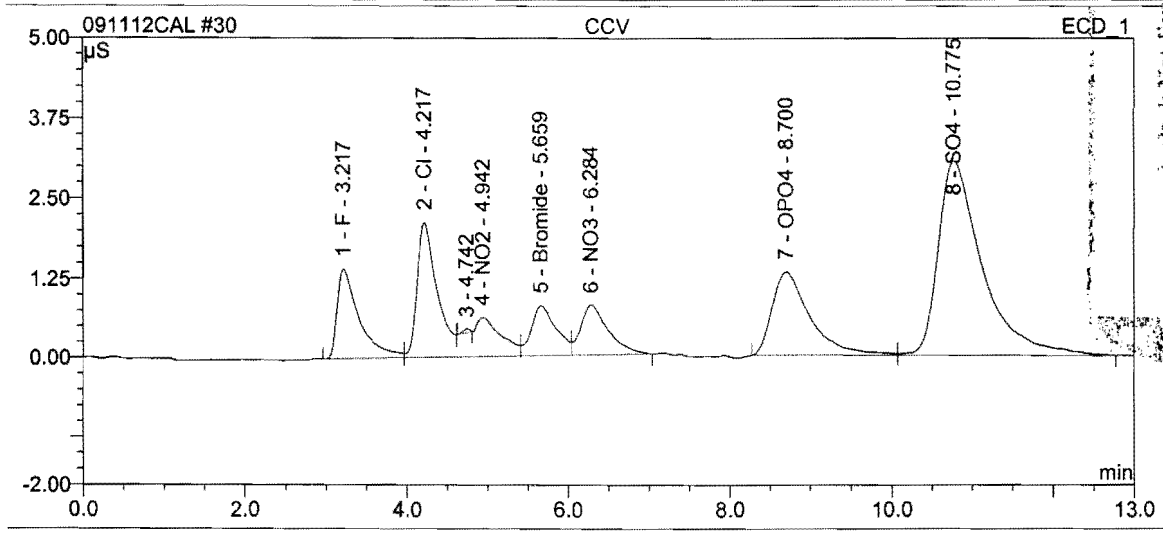
Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:24**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.22	F	BM	0.451	1.419	958.2043
2	4.22	Cl	M	0.617	2.126	1645.7215
4	4.94	NO2	M	0.305	0.620	1120.9251
5	5.66	Bromide	M	0.285	0.796	2217.0256
6	6.28	NO3	MB	0.312	0.799	357.1653
7	8.70	OPO4	BM	0.721	1.318	7754.4233
8	10.78	SO4	MB	1.926	3.036	7925.4530
		TOTAL:		4.62	10.11	21978.92

MI
JB
SEP 13 2012



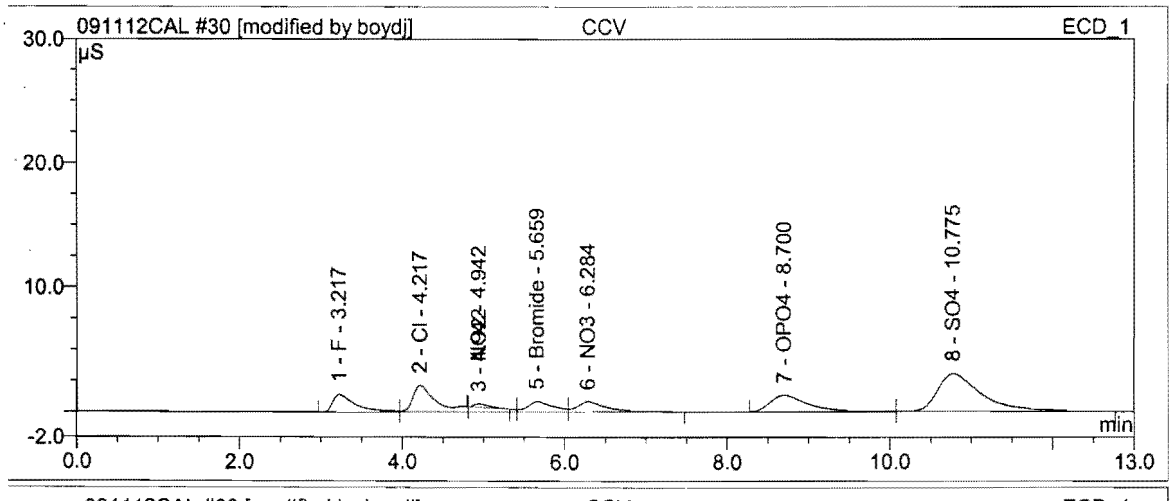


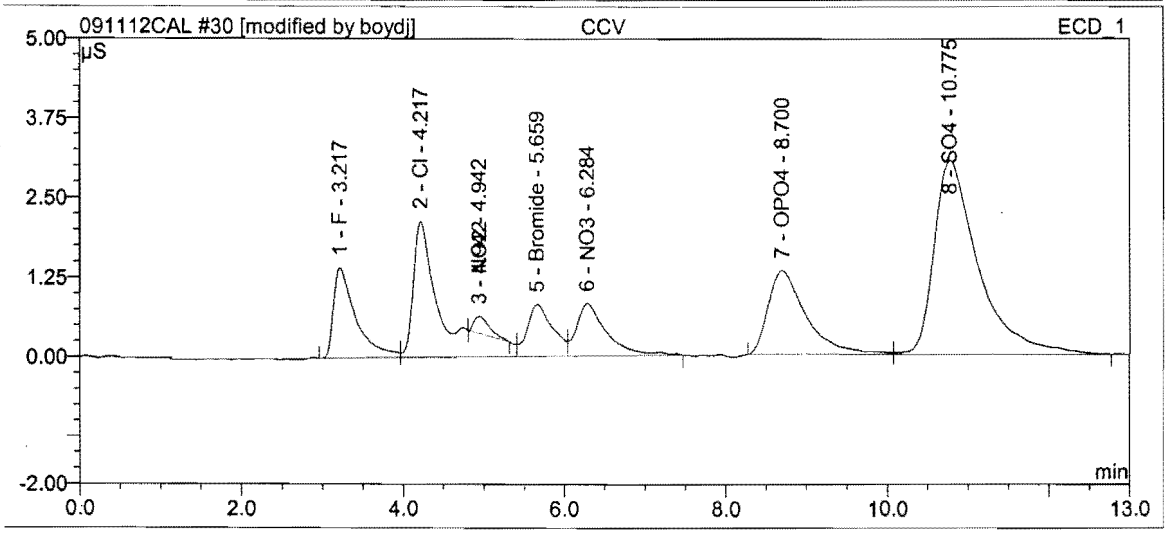
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing - NO2 = rider, NO3
6. Split Peak - cl
7. Other _____

Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:24**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.22	F	BM *	0.456	1.421	968.8073
2	4.22	Cl	M *	0.707	2.138	1884.9561
3	4.94	NO2	Ru*	0.058	0.269	212.2615
5	5.66	Bromide	M *	0.303	0.822	2352.6959
6	6.28	NO3	MB*	0.362	0.832	413.9967
7	8.70	OPO4	BM	0.721	1.318	7754.4233
8	10.78	SO4	MB	1.926	3.036	7925.4530
		TOTAL:		4.53	9.84	21512.59

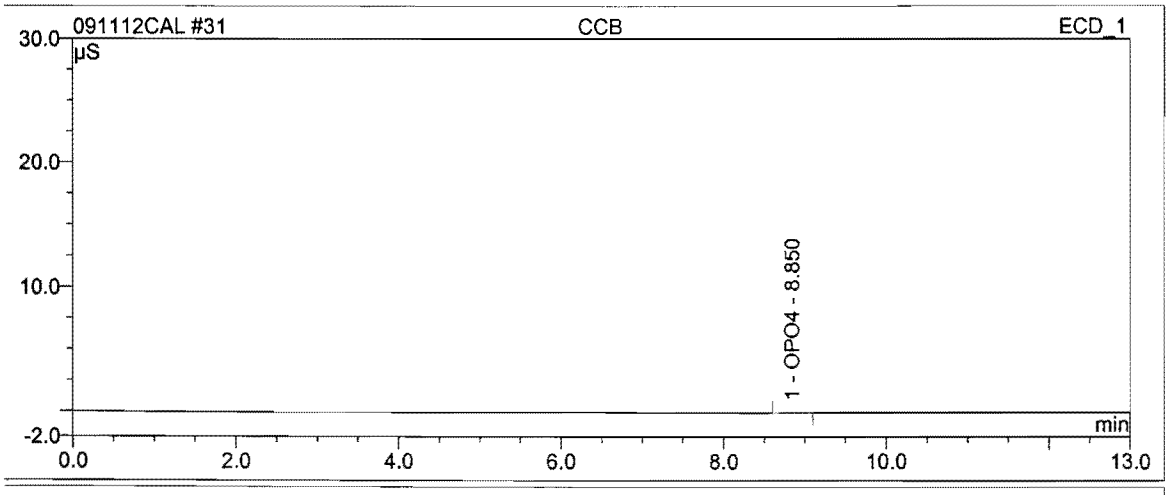


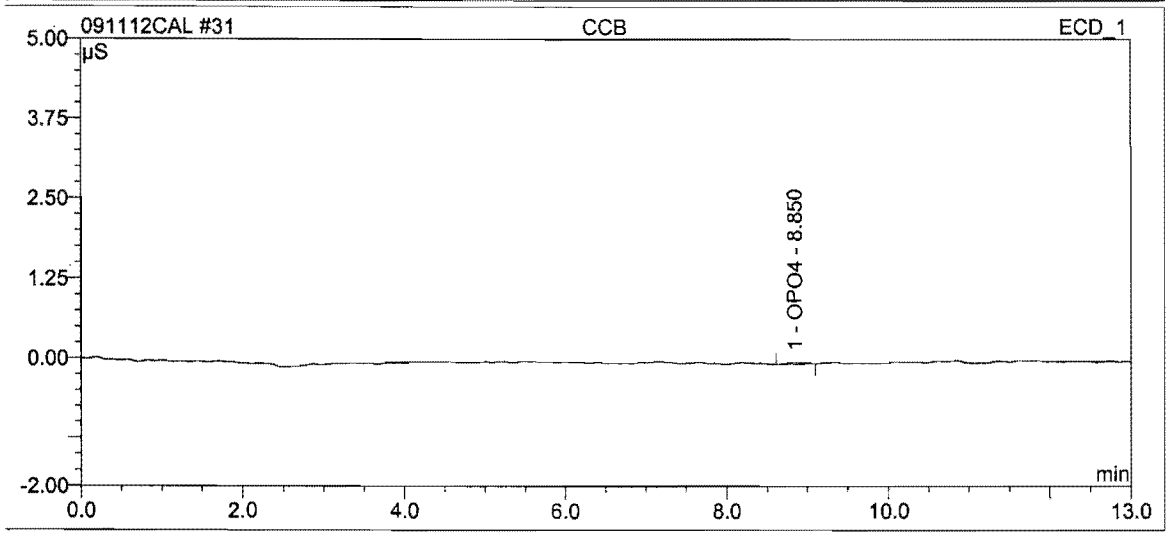


Integration Report - ECD_1

Sample Name:	**CCB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:39**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	8.85	OPO4	BMB	0.009	0.032	93.8357
		TOTAL:		0.01	0.03	93.84



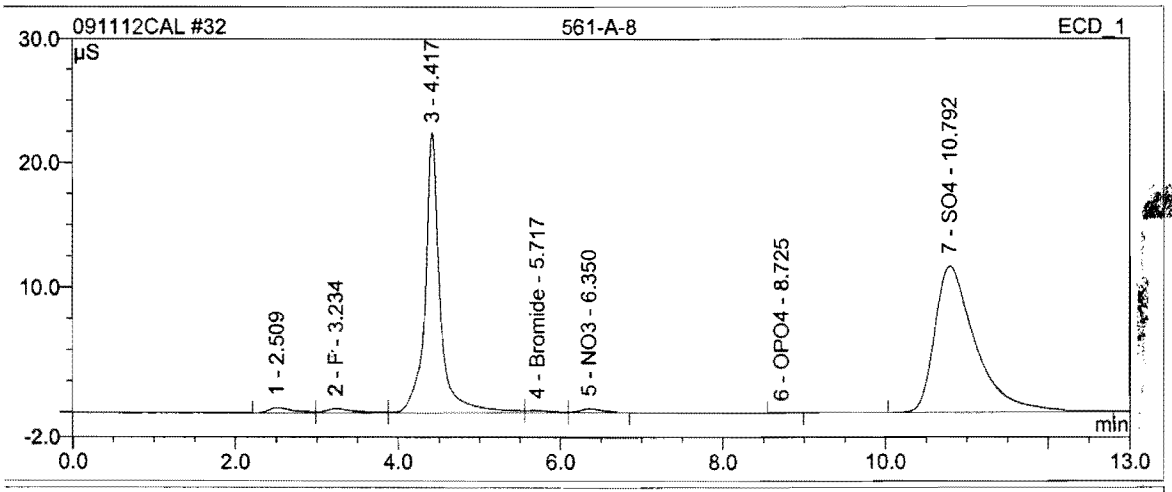


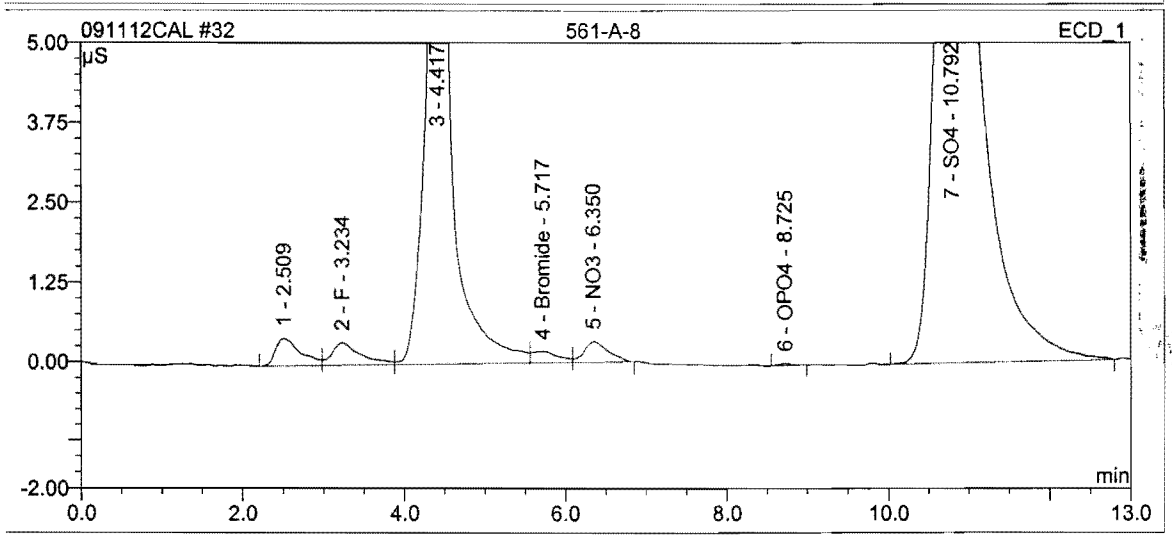
Integration Report - ECD_1

Sample Name:	**561-A-8**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:55**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M	0.147	0.353	311.1300
4	5.72	Bromide	M	0.068	0.177	528.3209
5	6.35	NO3	MB	0.114	0.326	130.3914
6	8.73	OPO4	BMB	0.005	0.029	57.4269
7	10.79	SO4	BMB	6.820	11.723	28055.7254
		TOTAL:		7.15	12.61	29082.99

MI
JB
SEP 13 2012



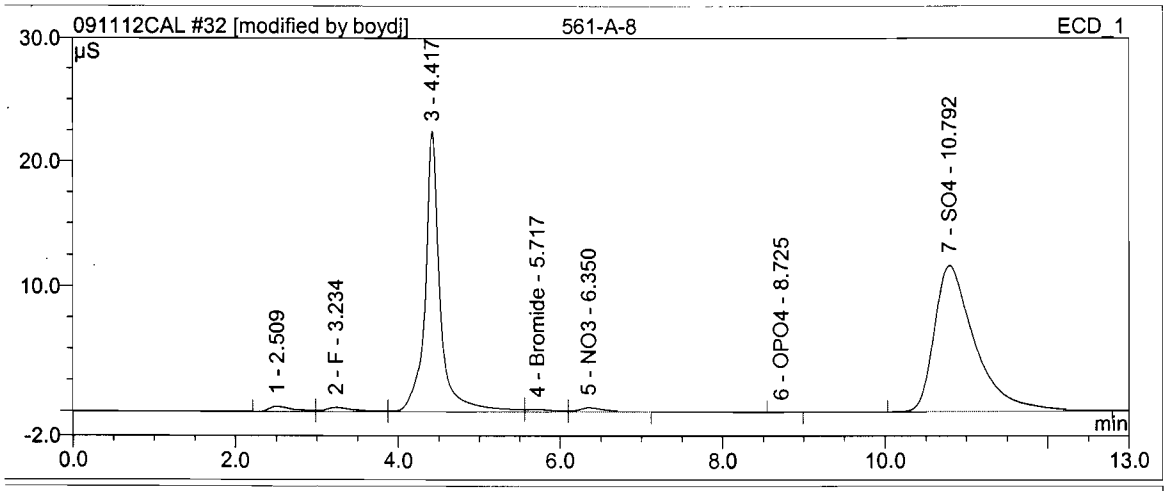


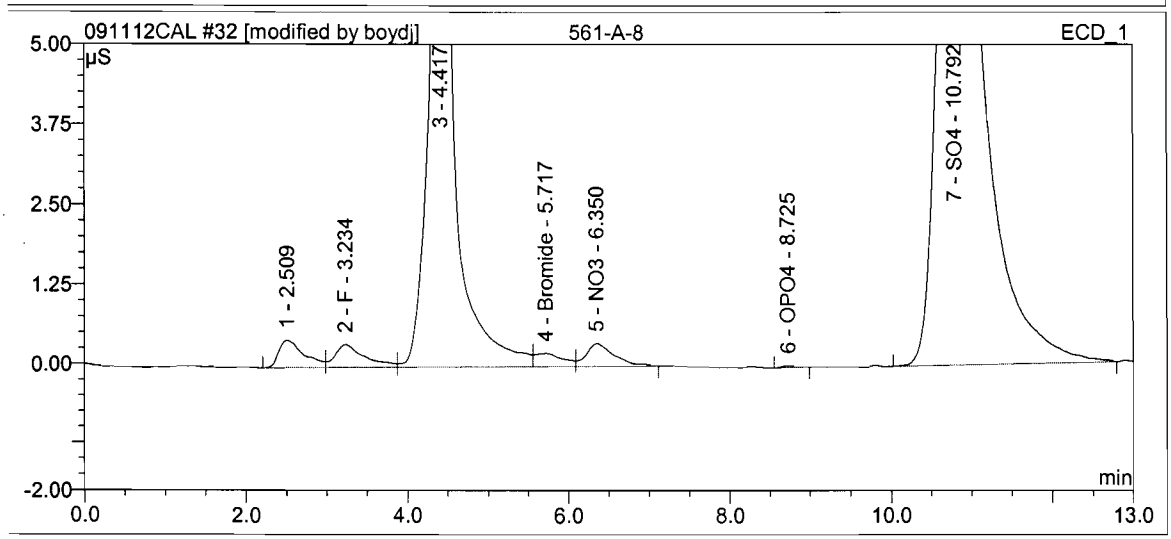
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -N03
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**561-A-8**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 22:55**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M *	0.155	0.362	329.8210
4	5.72	Bromide	M *	0.084	0.205	649.6414
5	6.35	NO3	MB*	0.146	0.359	167.2772
6	8.73	OPO4	BMB	0.005	0.029	57.4269
7	10.79	SO4	BMB	6.820	11.723	28055.7254
		TOTAL:		7.21	12.68	29259.89

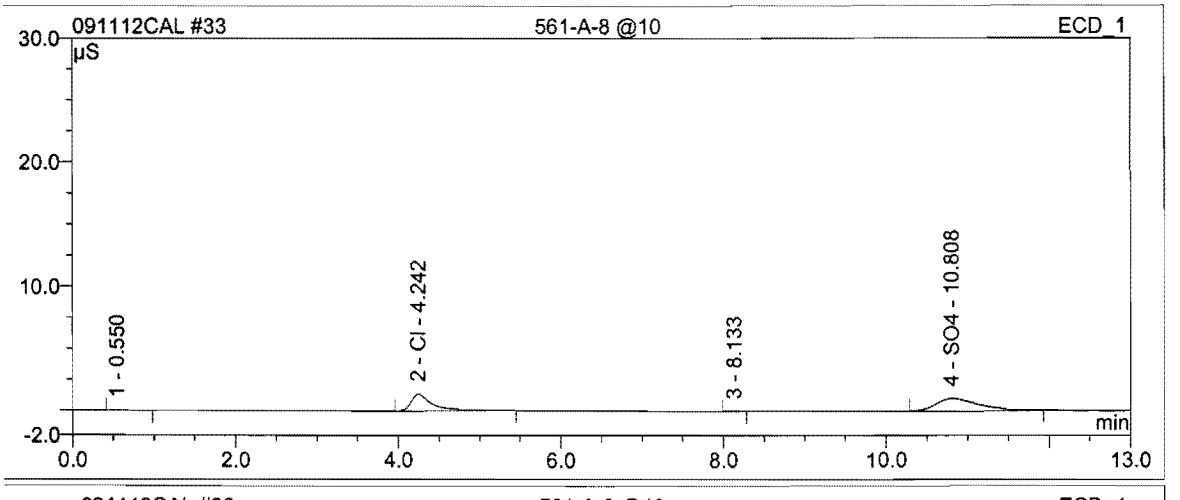


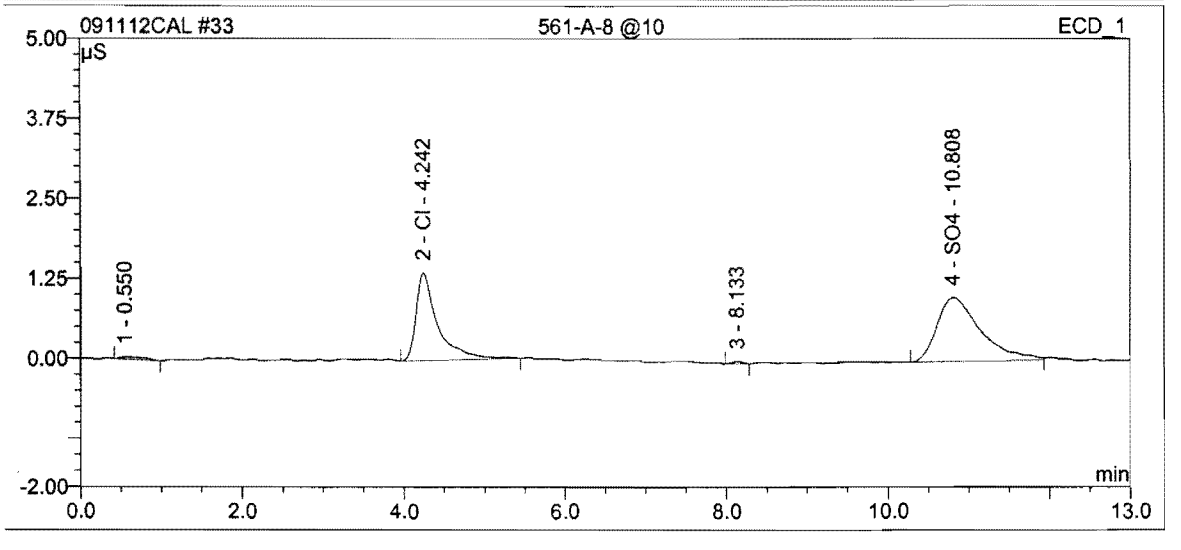


Integration Report - ECD_1

Sample Name:	**561-A-8 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 23:10**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.24	Cl	BMB	0.430	1.372	1145.9298
4	10.81	SO4	BM	0.623	0.999	2561.0709
		TOTAL:		1.05	2.37	3707.00



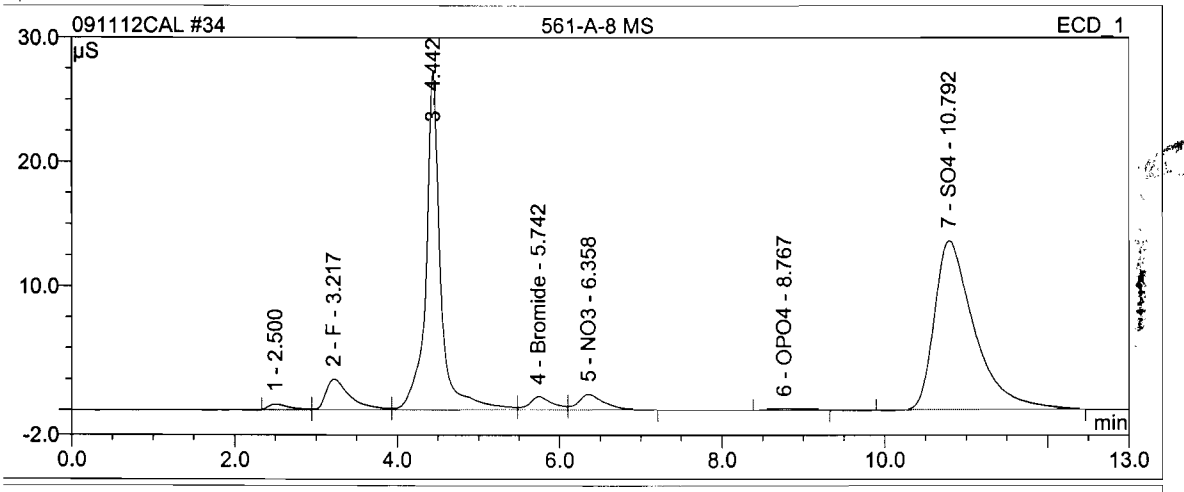


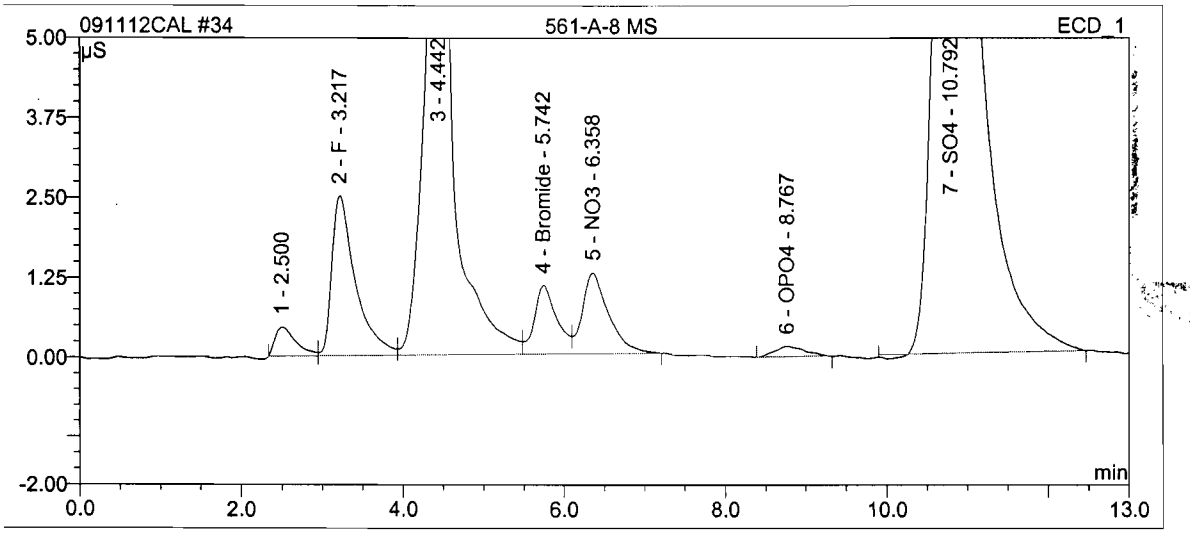
Integration Report - ECD_1

Sample Name:	**561-A-8 MS**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 23:26**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M	0.848	2.493	1799.5473
4	5.74	Bromide	M	0.352	1.077	2738.2815
5	6.36	NO3	MB	0.475	1.265	544.3971
6	8.77	OPO4	BM	0.069	0.162	745.8297
7	10.79	SO4	MB	7.742	13.647	31851.9323
		TOTAL:		9.49	18.64	37679.99

MI
SB
SEP 13 2012



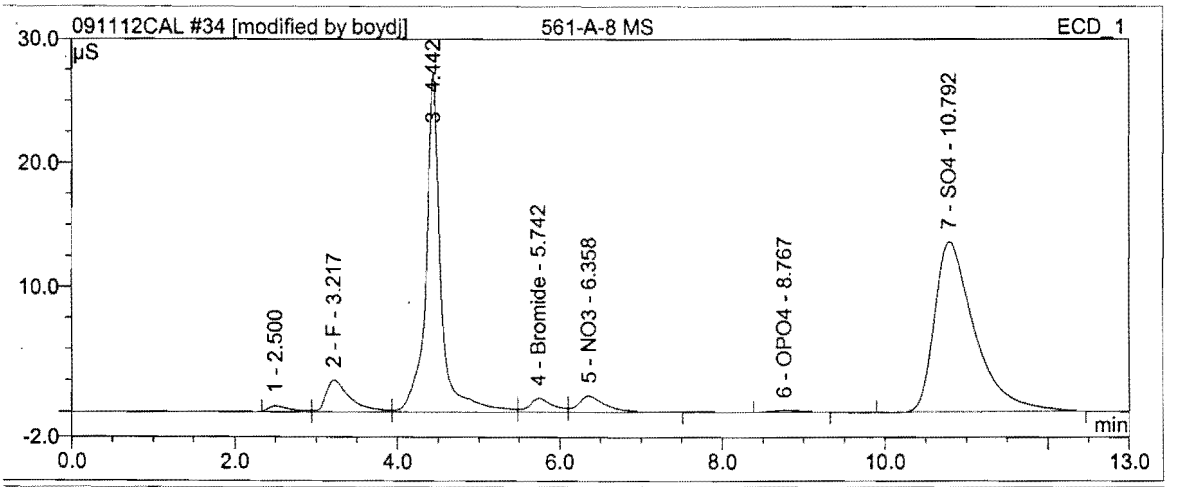


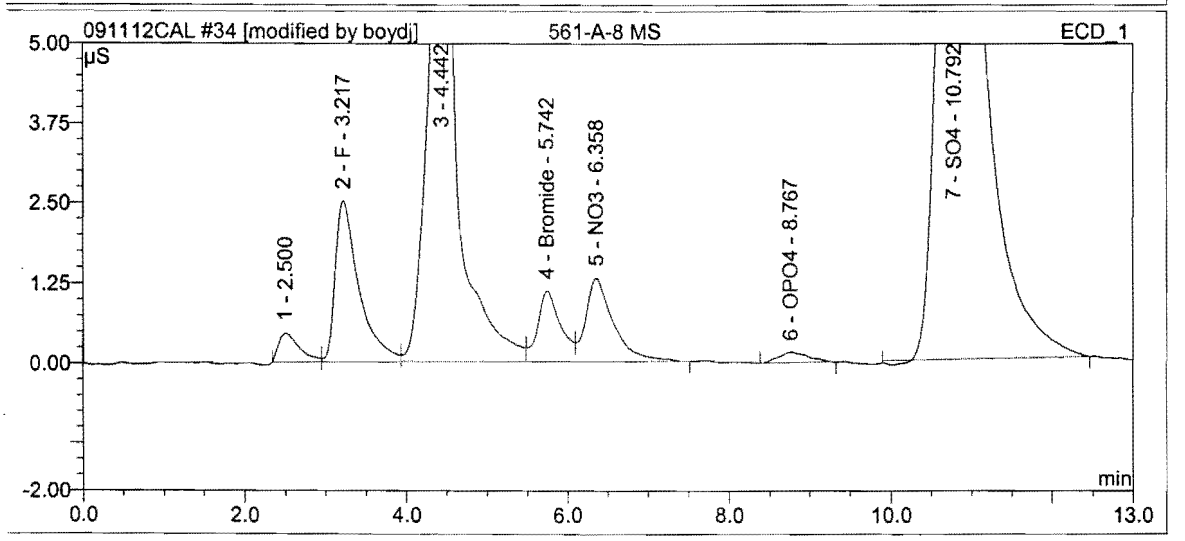
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing - NO3
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**561-A-8 MS**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 23:26**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M *	0.856	2.500	1817.5611
4	5.74	Bromide	M *	0.369	1.104	2867.4321
5	6.36	NO3	MB*	0.517	1.296	592.2820
6	8.77	OPO4	BM	0.069	0.162	745.8297
7	10.79	SO4	MB	7.742	13.647	31851.9323
			TOTAL:	9.55	18.71	37875.04

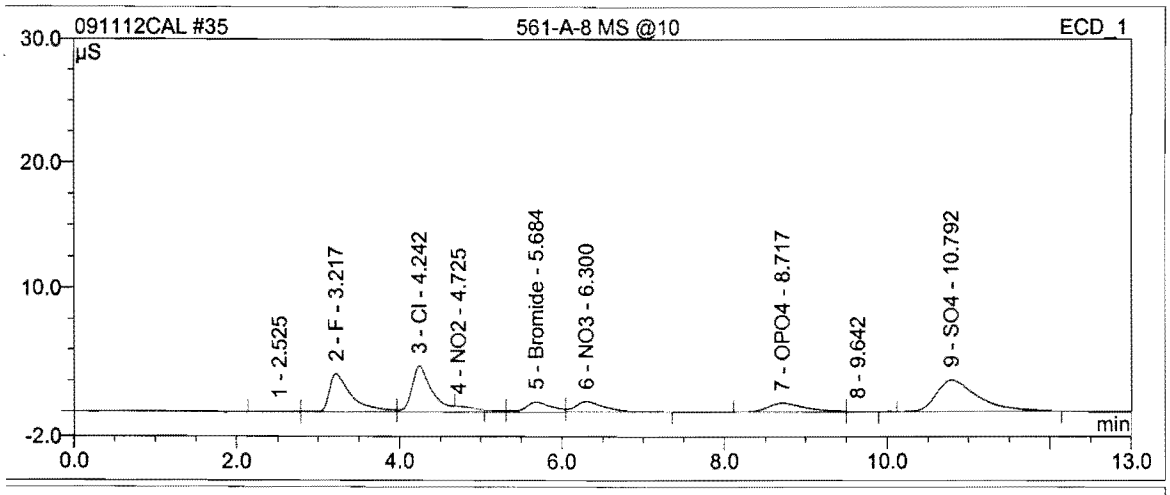


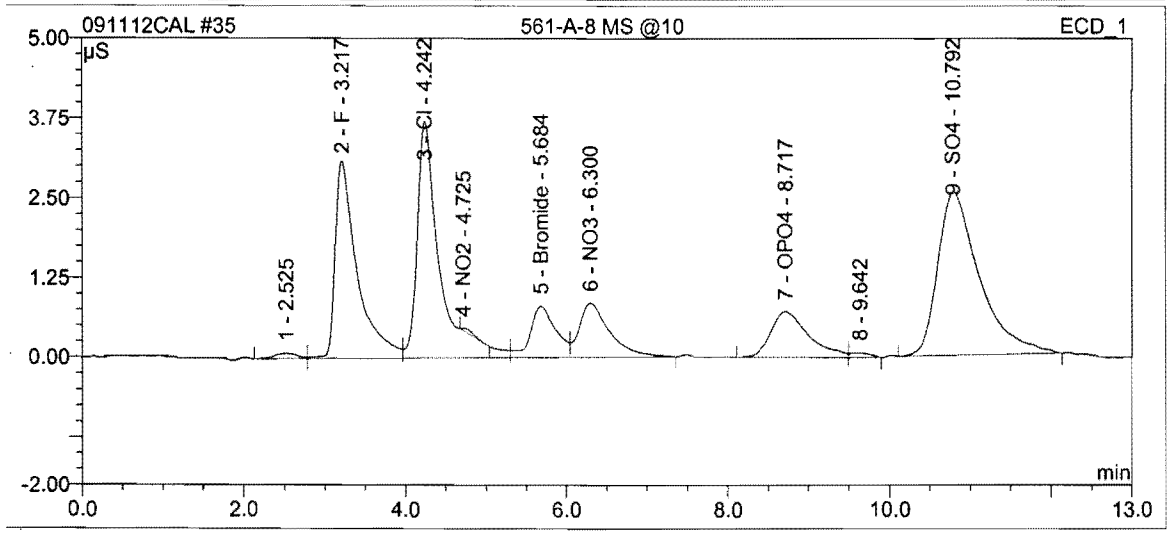


Integration Report - ECD_1

Sample Name:	**561-A-8 MS @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 23:41**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M	0.980	3.092	2080.8568
3	4.24	Cl	M	1.206	3.715	3215.0013
4	4.73	NO2	Rd	0.010	0.044	35.8655
5	5.68	Bromide	M	0.295	0.809	2296.2083
6	6.30	NO3	MB	0.372	0.855	425.5916
7	8.72	OPO4	BM	0.394	0.720	4238.5834
9	10.79	SO4	BMB	1.534	2.572	6310.6935
		TOTAL:		4.79	11.81	18602.80

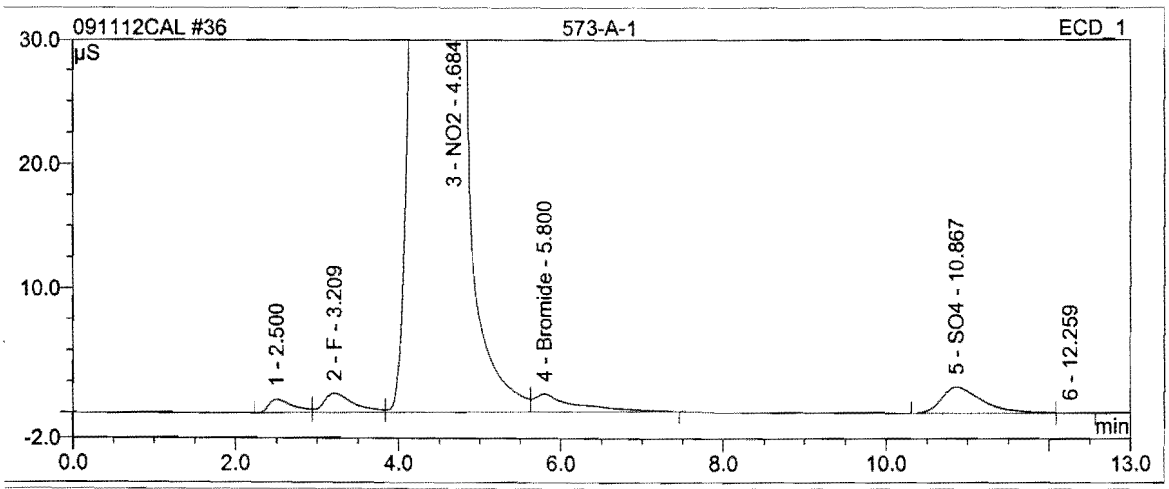


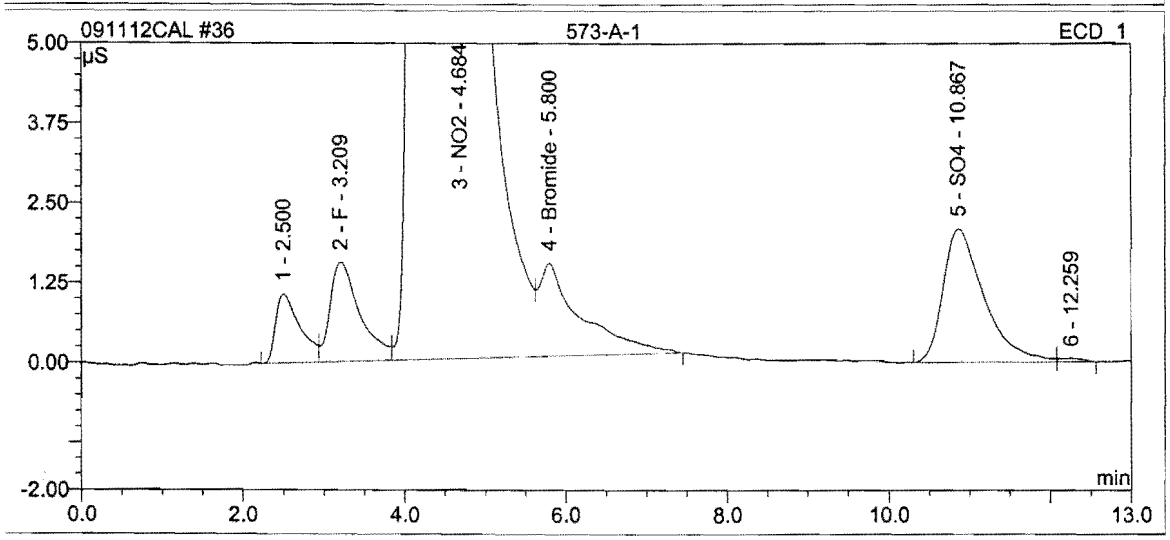


Integration Report - ECD_1

Sample Name:	**573-A-1**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**11.09.12 23:56**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.21	F	M	0.669	1.554	1420.8363
3	4.68	NO2	M	105.098	270.205	386703.9635
4	5.80	Bromide	MB	0.885	1.457	6881.1802
5	10.87	SO4	BM	1.224	2.082	5034.1417
		TOTAL:		107.88	275.30	400040.12

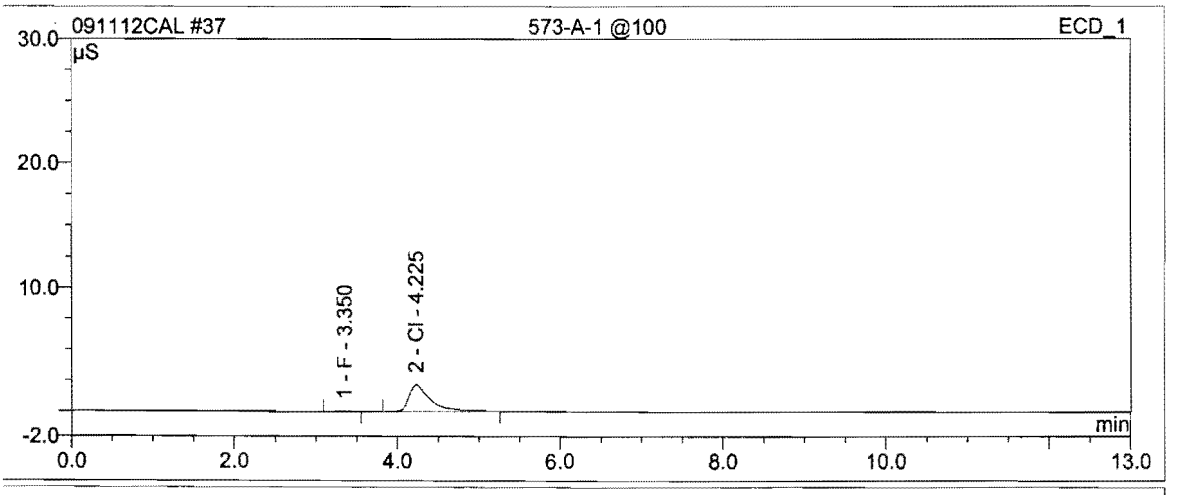


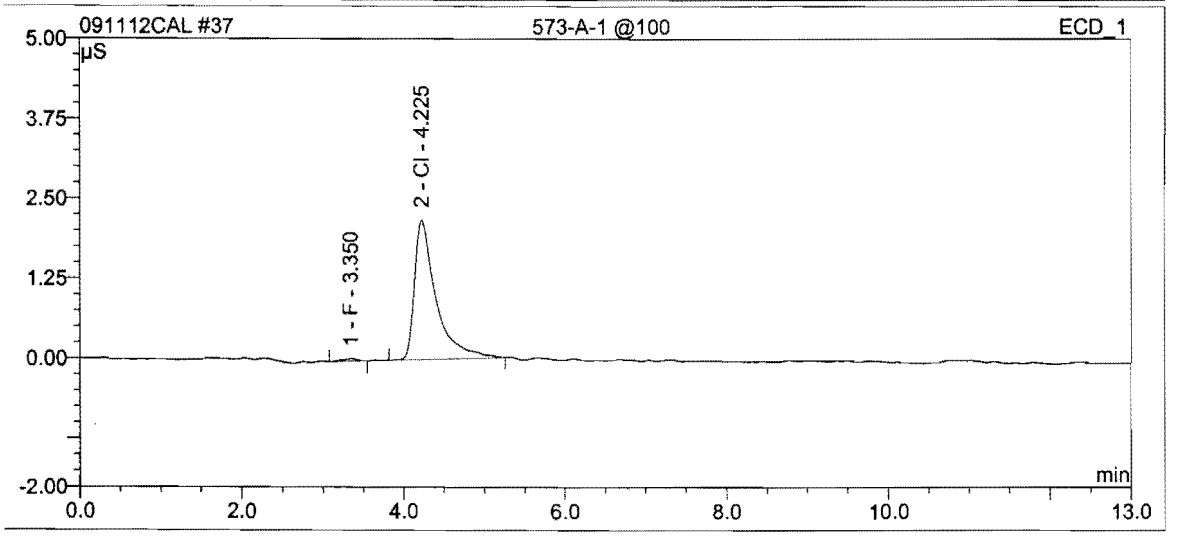


Integration Report - ECD_1

Sample Name:	**573-A-1 @100**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 00:12**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.35	F	BMB	0.009	0.043	19.6884
2	4.23	Cl	BMB	0.676	2.184	1801.7691
		TOTAL:		0.69	2.23	1821.46

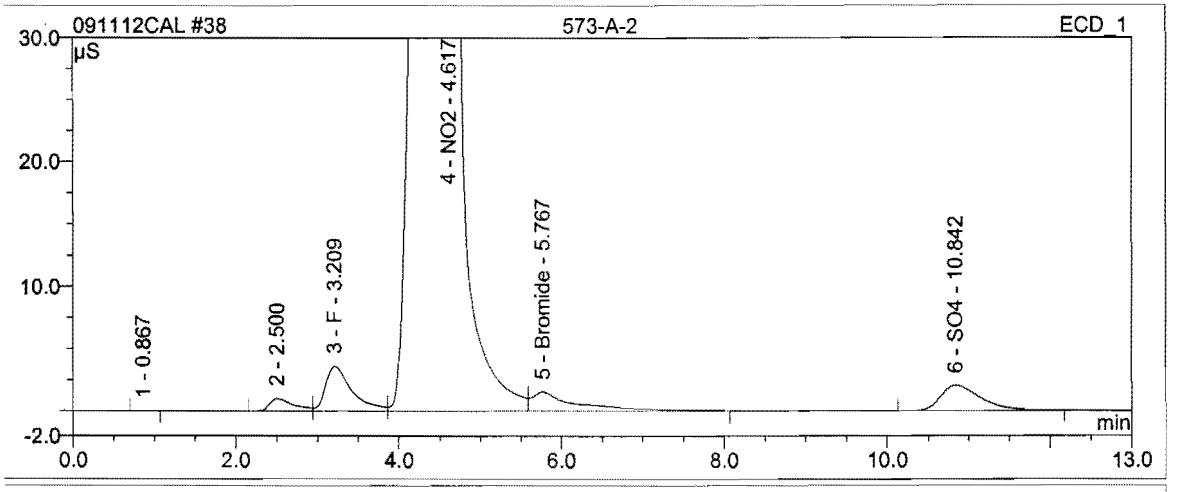


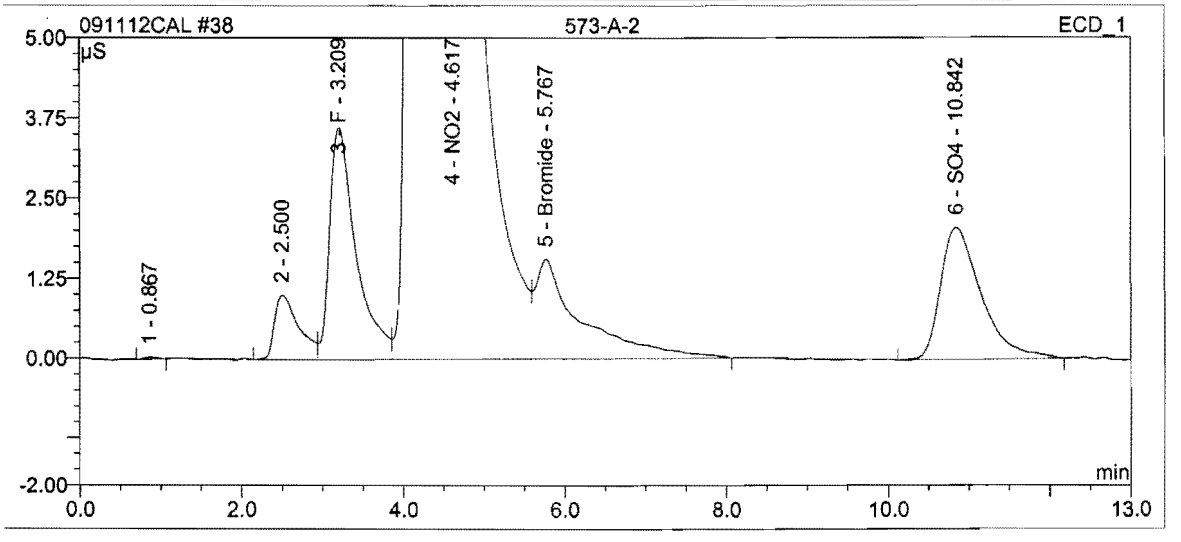


Integration Report - ECD_1

Sample Name:	**573-A-2**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 00:27**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
3	3.21	F	M	1.371	3.616	2910.8624
4	4.62	NO2	M	84.559	231.709	311131.8954
5	5.77	Bromide	MB	1.047	1.560	8146.0792
6	10.84	SO4	BMB	1.195	2.062	4916.9074
		TOTAL:		88.17	238.95	327105.74

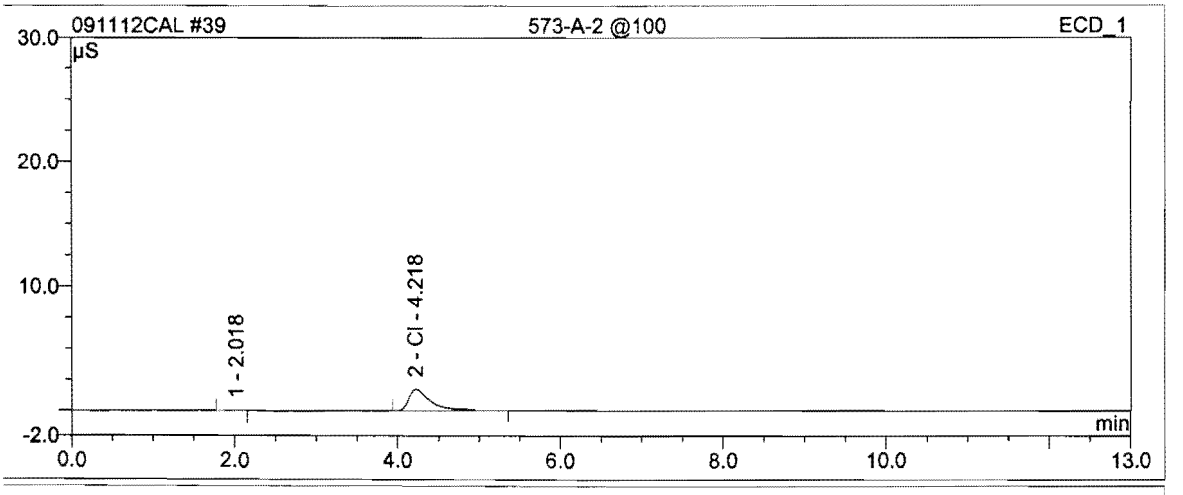


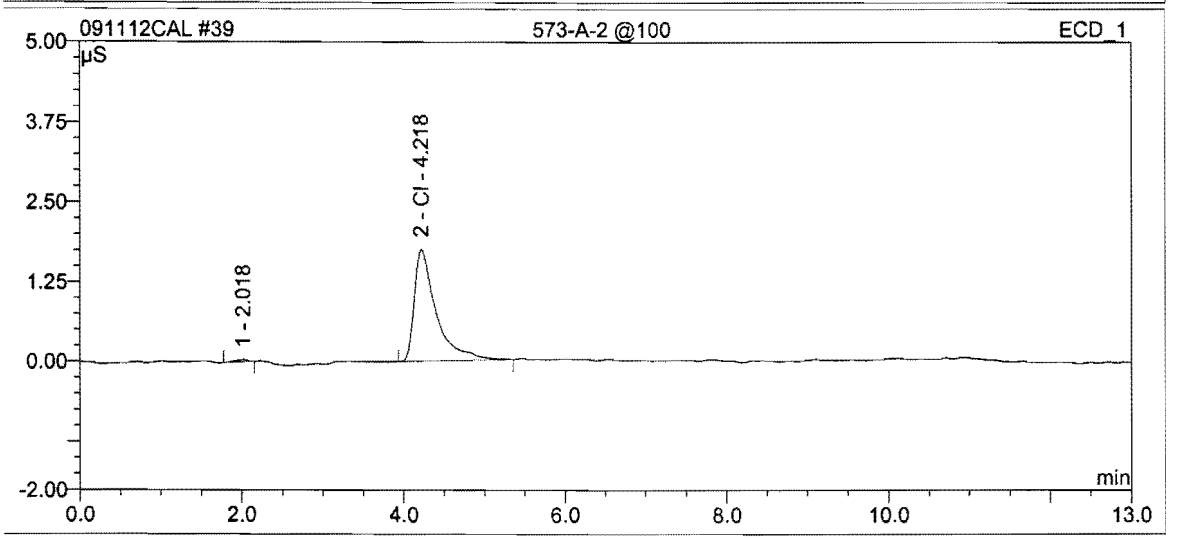


Integration Report - ECD_1

Sample Name:	**573-A-2 @100**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 00:43**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.22	Cl	BMB	0.554	1.759	1476.3493
		TOTAL:		0.55	1.76	1476.35

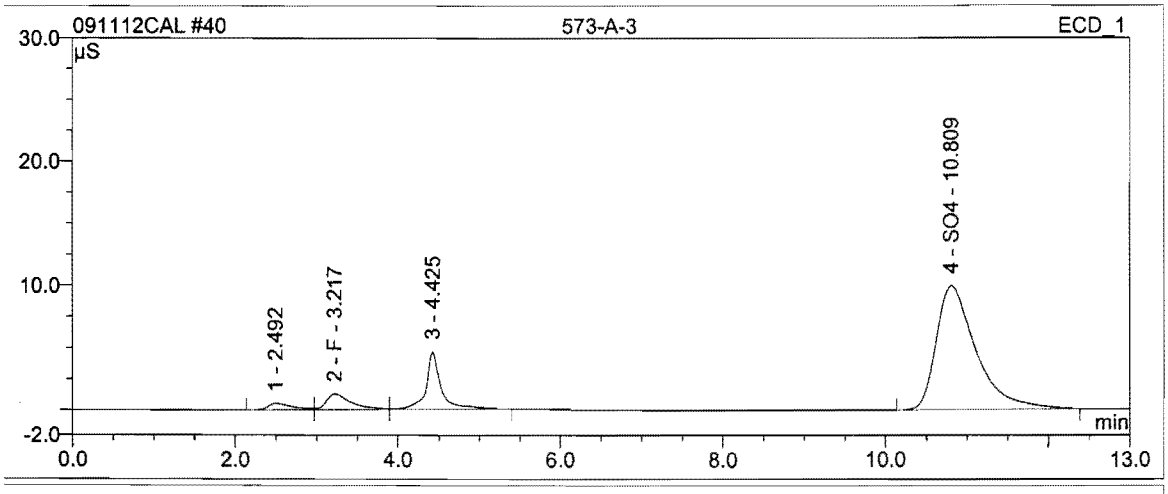


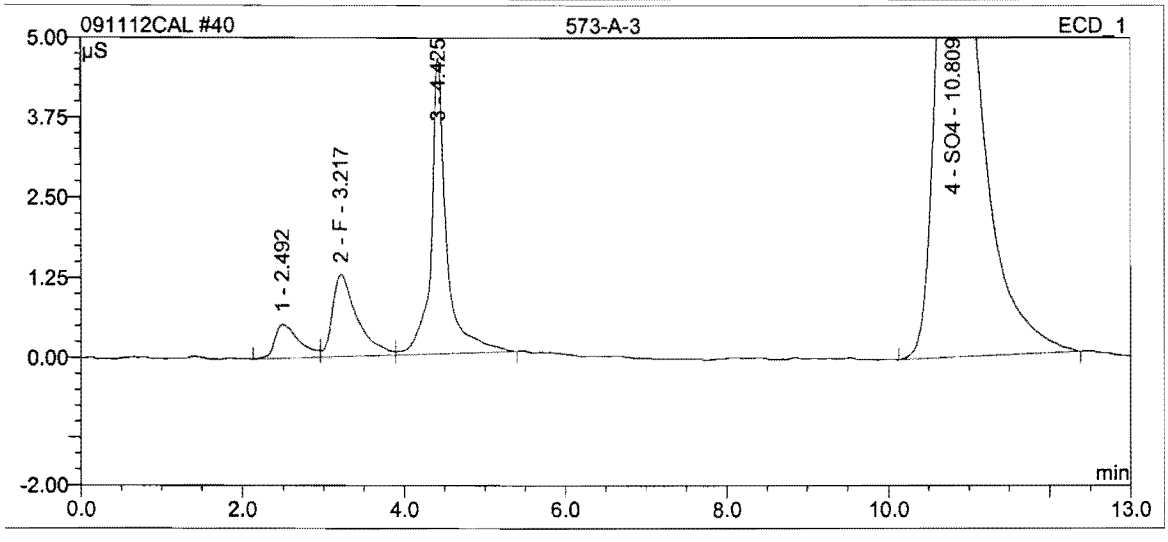


Integration Report - ECD_1

Sample Name:	**573-A-3**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 00:58**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M	0.457	1.280	970.5256
4	10.81	SO4	BMB	5.658	9.946	23275.9551
		TOTAL:		6.11	11.23	24246.48

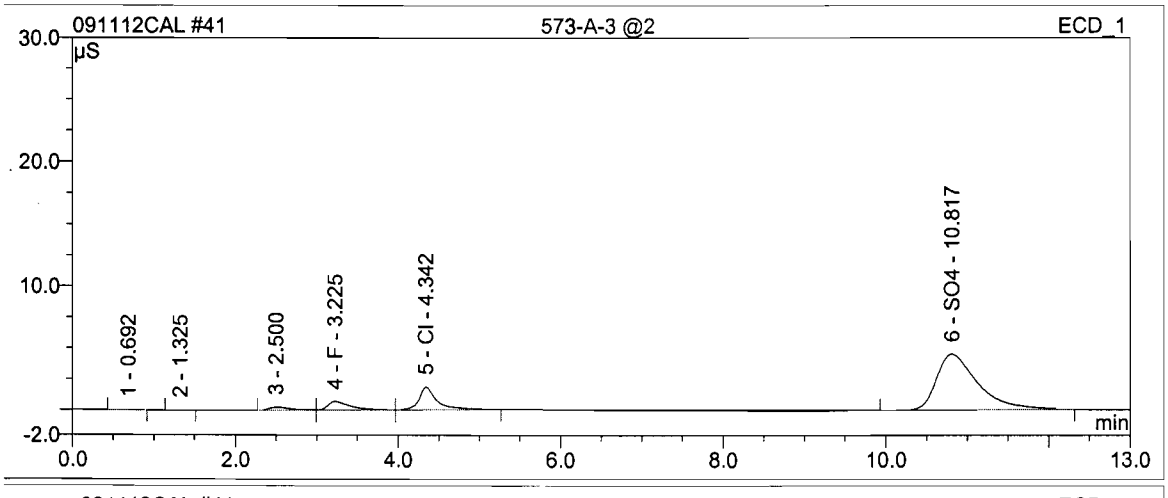


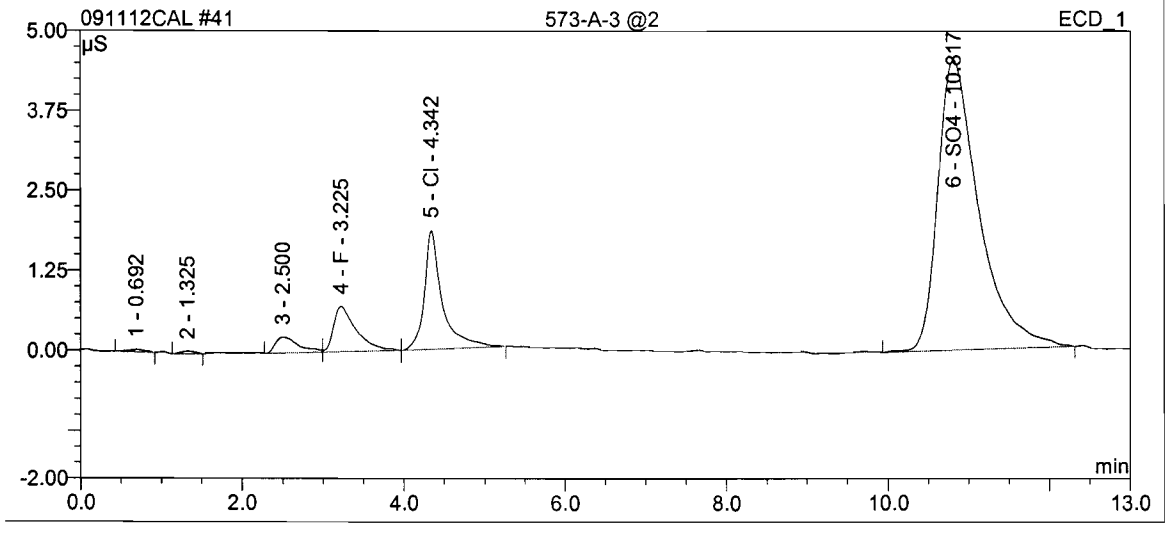


Integration Report - ECD_1

Sample Name:	**573-A-3 @2**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 01:13**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
4	3.23	F	MB	0.231	0.712	491.0068
5	4.34	Cl	bMB	0.490	1.860	1304.8696
6	10.82	SO4	BMB	2.676	4.542	11008.2523
			TOTAL:	3.40	7.11	12804.13

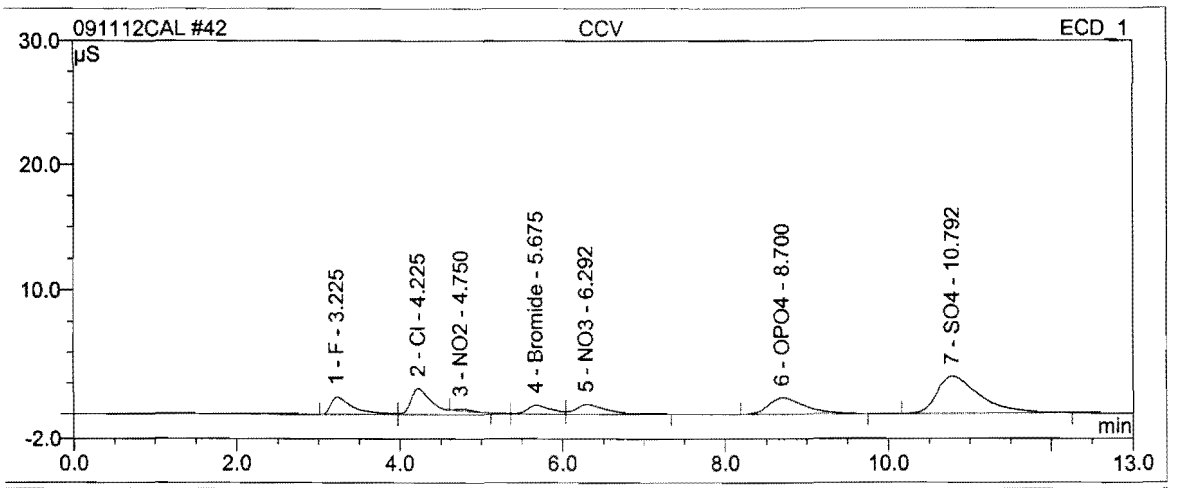


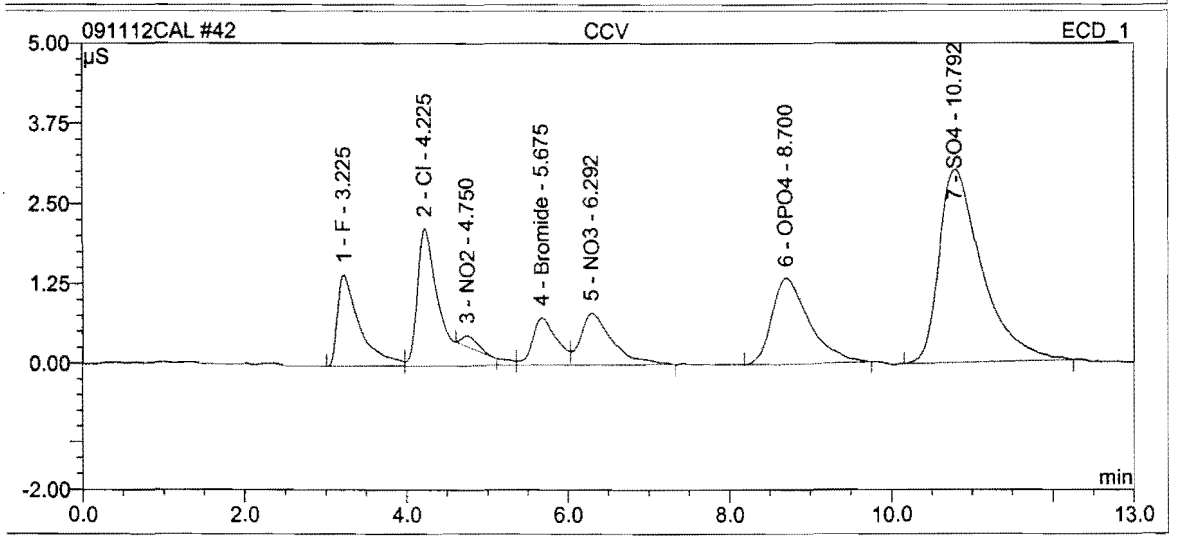


Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 01:29**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.23	F	BM	0.457	1.427	969.5241
2	4.23	Cl	M	0.766	2.146	2042.4672
3	4.75	NO2	Rd	0.038	0.164	138.1088
4	5.68	Bromide	M	0.259	0.739	2015.7621
5	6.29	NO3	MB	0.370	0.812	423.3212
6	8.70	OPO4	BMB	0.720	1.342	7734.4464
7	10.79	SO4	BMB	1.845	3.011	7589.6989
		TOTAL:		4.45	9.64	20913.33

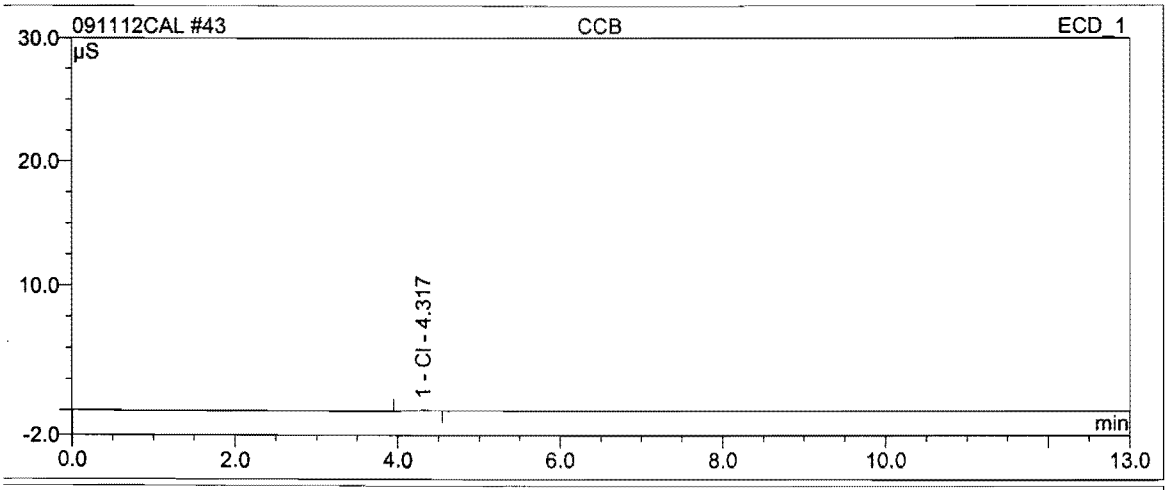


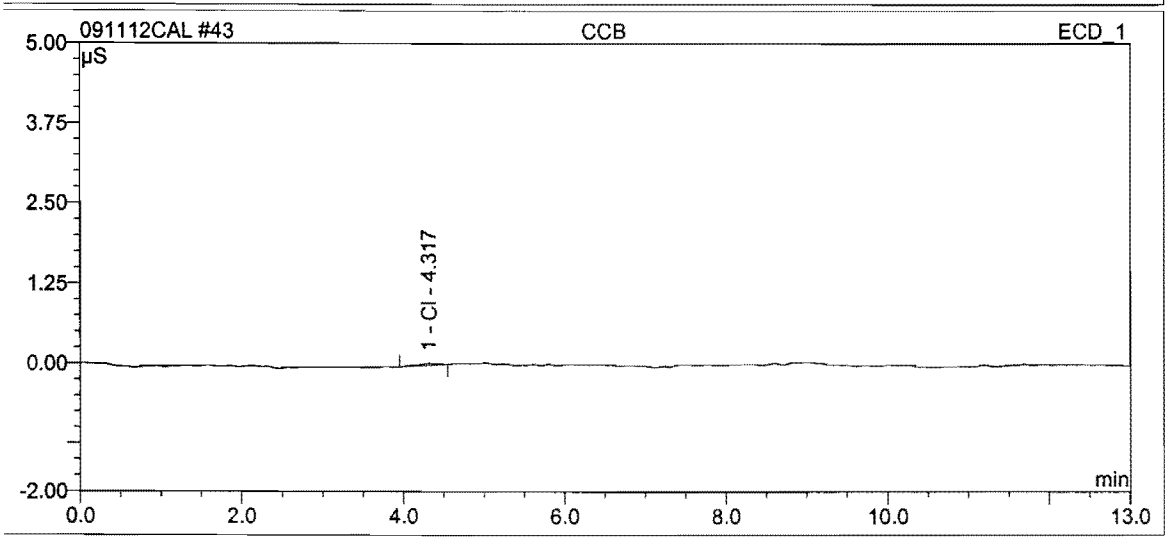


Integration Report - ECD_1

Sample Name:	**CCB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 01:44**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.32	Cl	BMB	0.010	0.031	25.9613
		TOTAL:		0.01	0.03	25.96

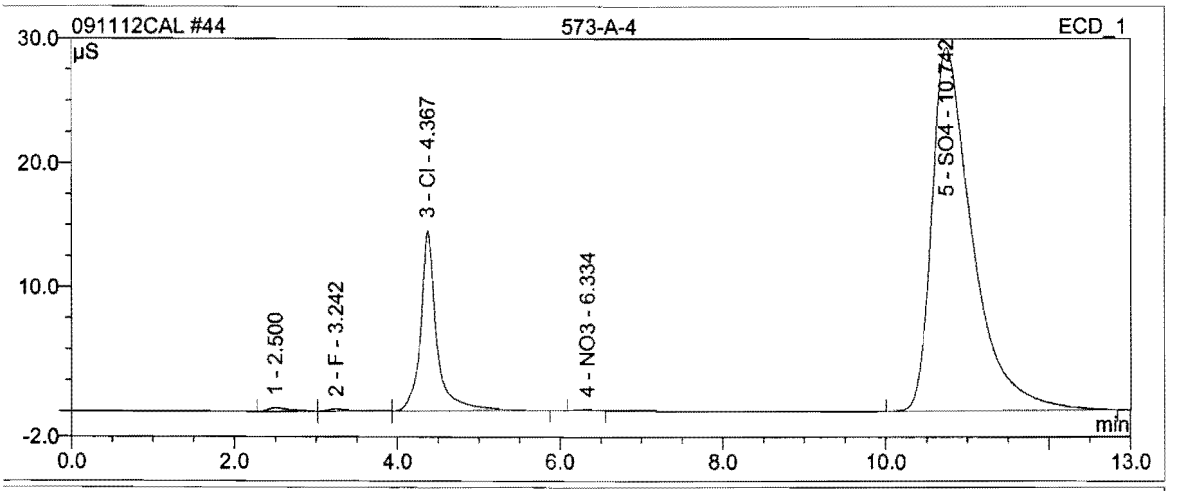


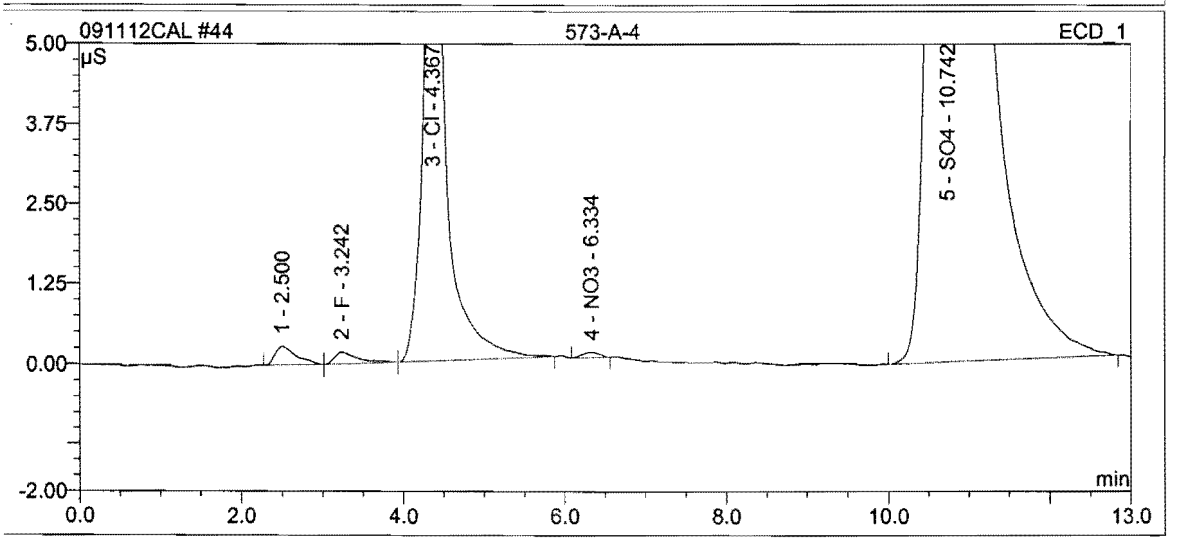


Integration Report - ECD_1

Sample Name:	**573-A-4**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 02:00**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.24	F	bMb	0.060	0.181	127.9432
3	4.37	Cl	bMB	3.347	14.522	8921.3877
4	6.33	NO3	BMB	0.021	0.081	23.6341
5	10.74	SO4	BMB	16.865	29.228	69383.3145
		TOTAL:		20.29	44.01	78456.28

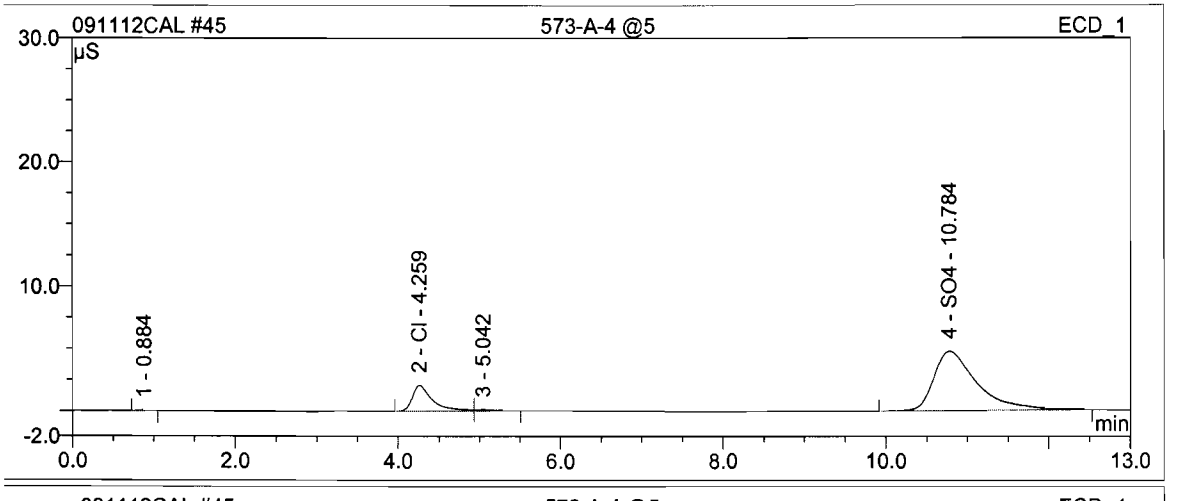


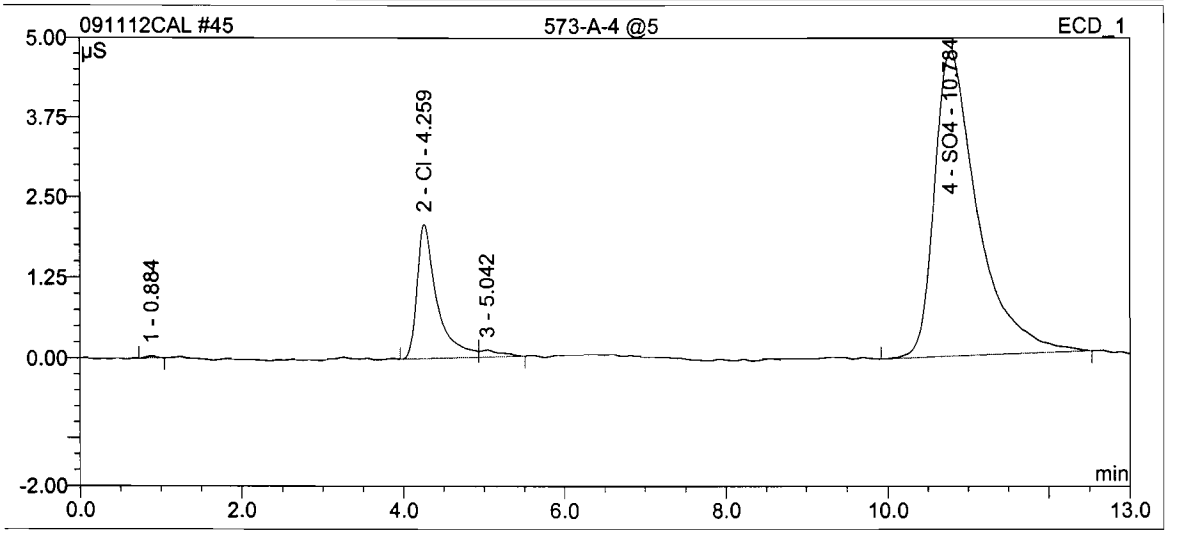


Integration Report - ECD_1

Sample Name:	**573-A-4 @5**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 02:15**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.26	Cl	BM	0.601	2.078	1600.7065
4	10.78	SO4	BMB	2.930	4.762	12052.1532
		TOTAL:		3.53	6.84	13652.86

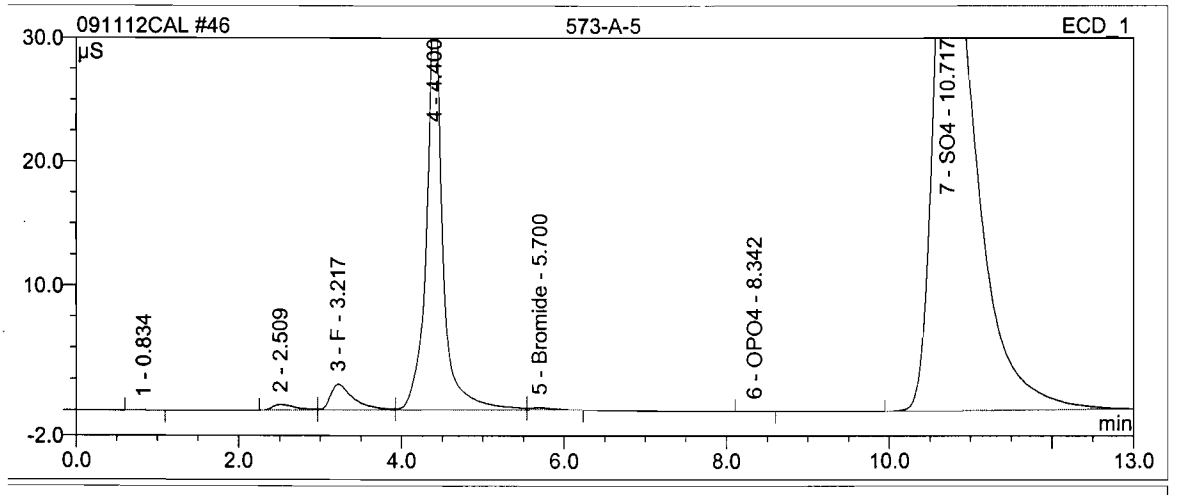


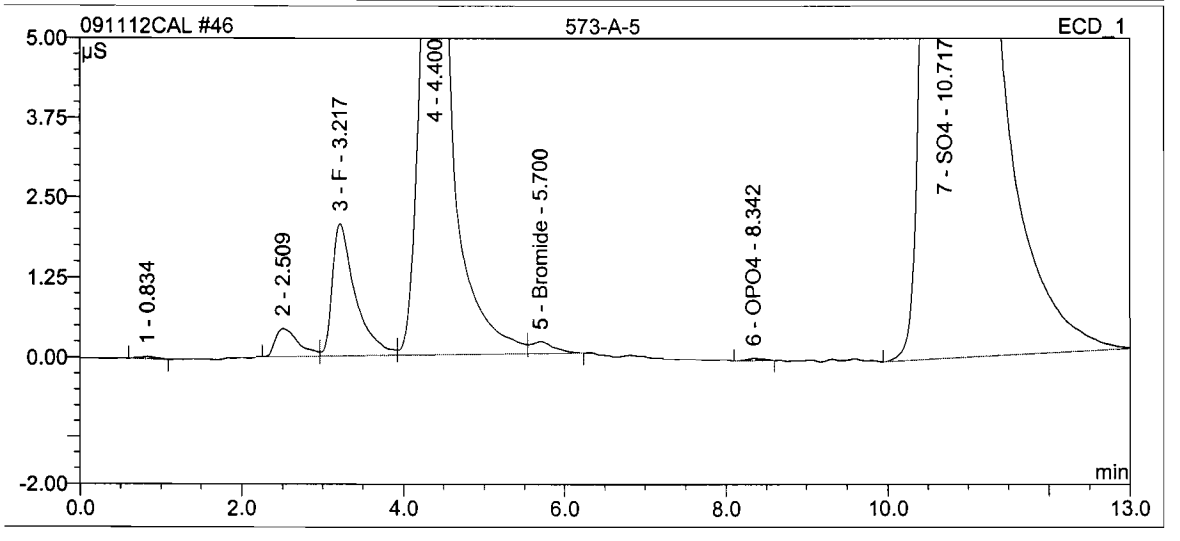


Integration Report - ECD_1

Sample Name:	**573-A-5**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 02:31**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
3	3.22	F	M	0.682	2.060	1448.0280
5	5.70	Bromide	MB	0.062	0.186	483.2567
6	8.34	OPO4	BMB	0.009	0.038	92.3484
7	10.72	SO4	BMB	26.426	45.948	108713.8745
			TOTAL:	27.18	48.23	110737.51



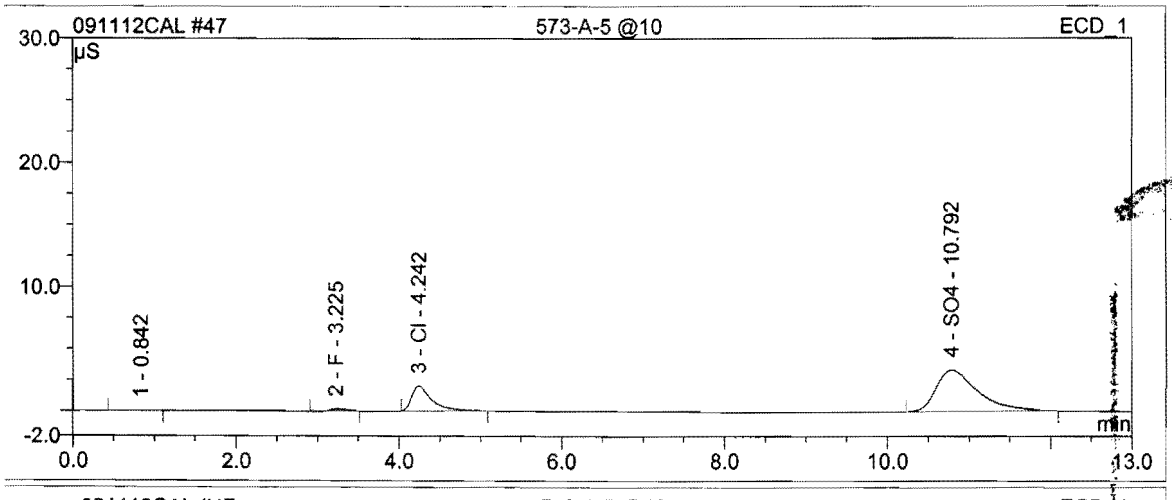


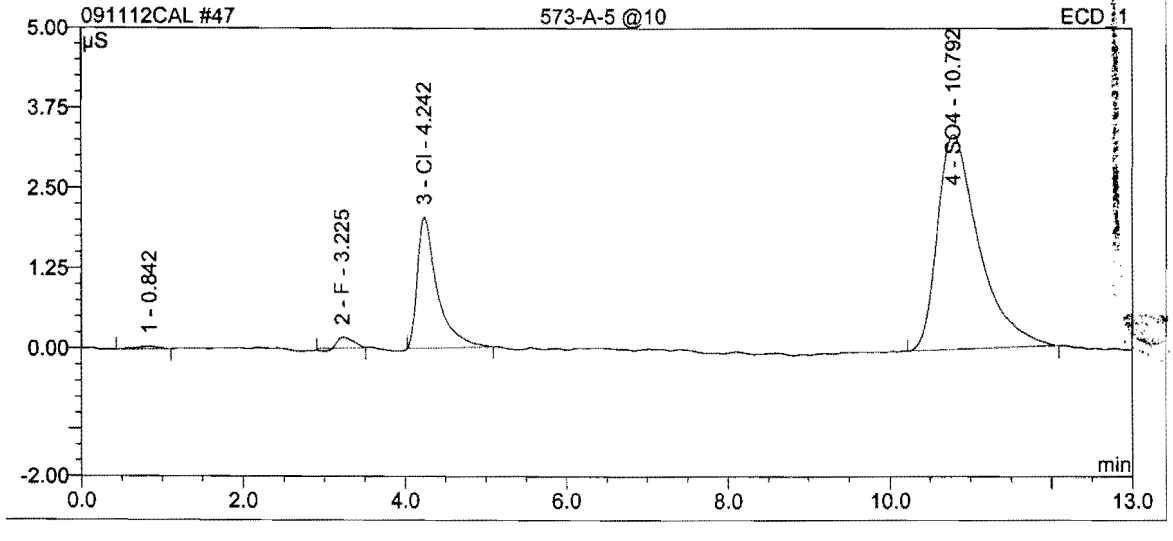
Integration Report - ECD_1

Sample Name:	**573-A-5 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 02:46**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M	0.033	0.168	70.6446
3	4.24	Cl	BMB	0.584	2.036	1555.7596
4	10.79	SO4	BMB	1.979	3.343	8142.6841
		TOTAL:		2.60	5.55	9769.09

MT
SB
SEP 13 2012



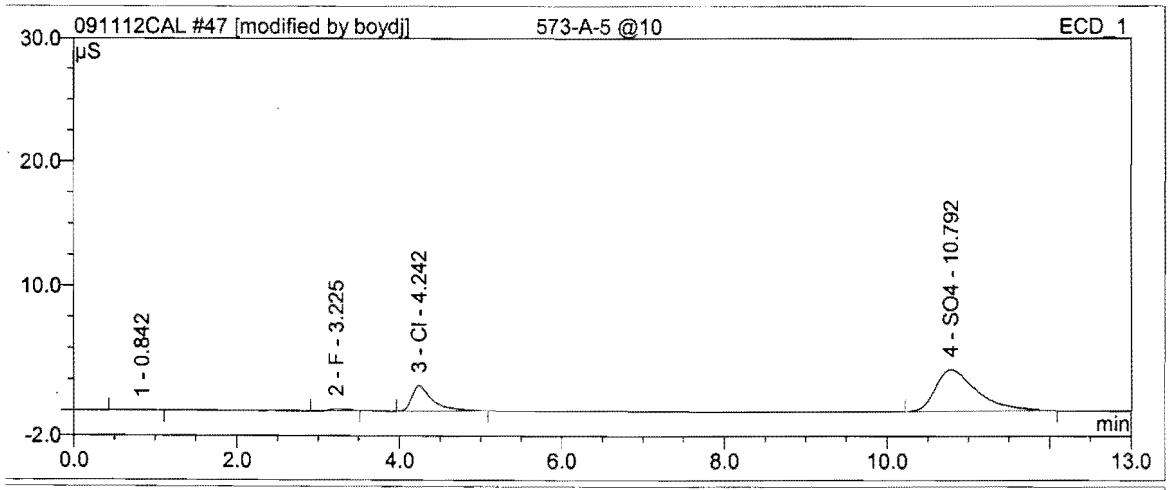


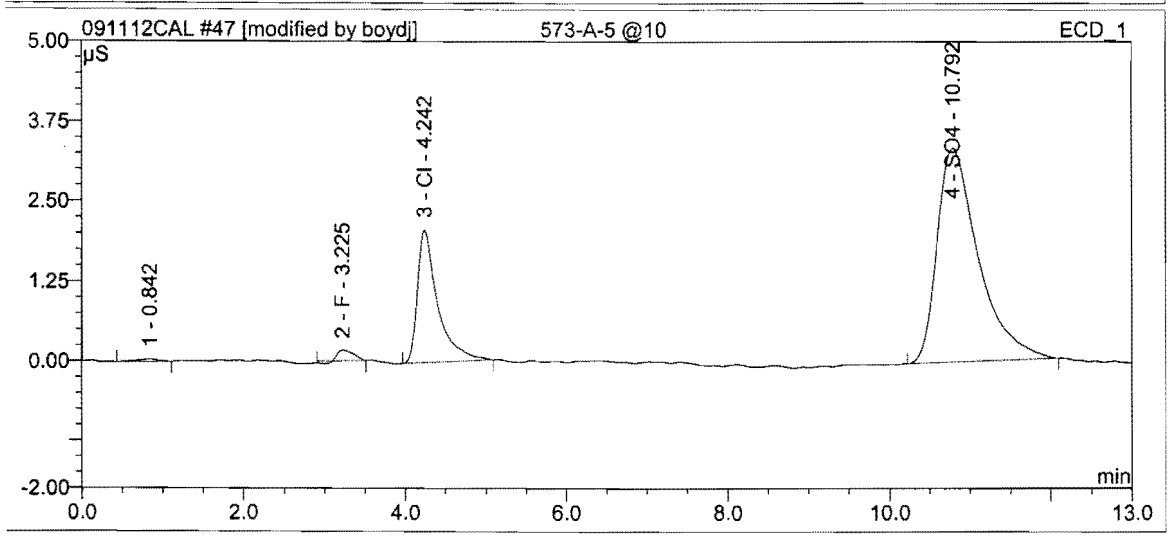
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**573-A-5 @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 02:46**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M	0.033	0.168	70.6446
3	4.24	Cl	BMB*	0.604	2.066	1610.1881
4	10.79	SO4	BMB	1.979	3.343	8142.6841
			TOTAL:	2.62	5.58	9823.52

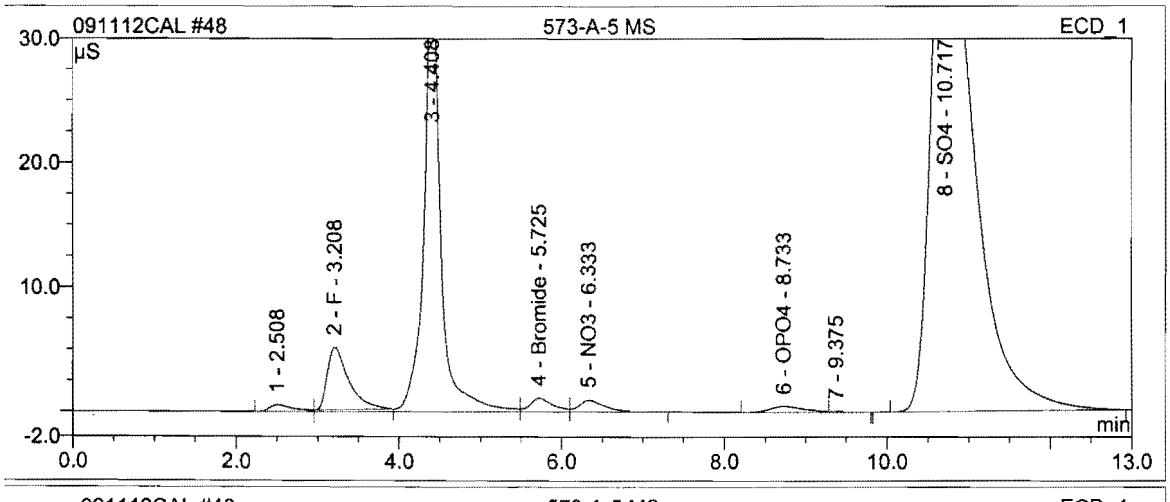


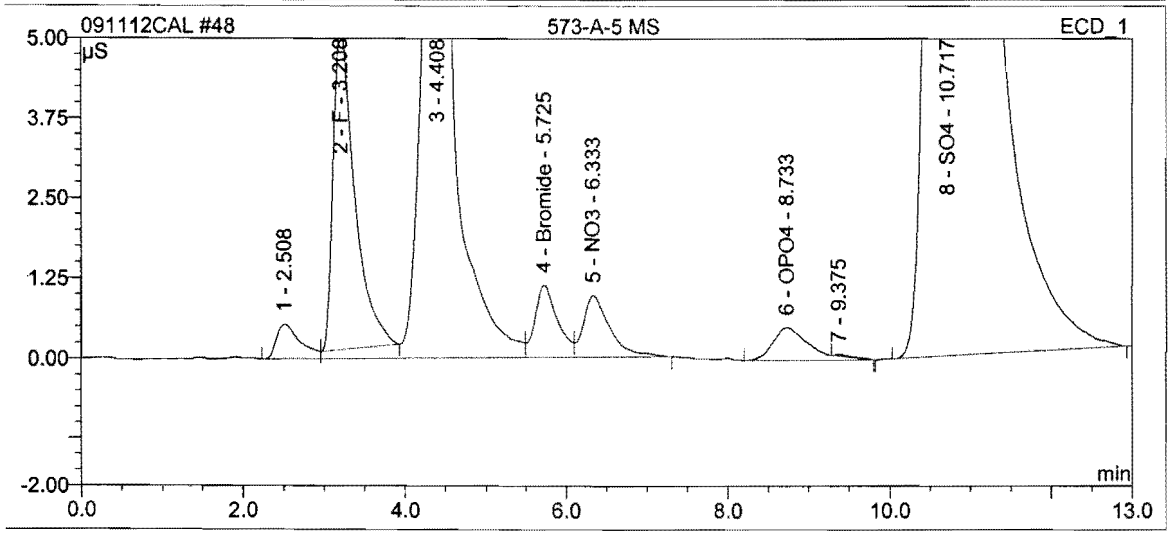


Integration Report - ECD_1

Sample Name:	**573-A-5 MS**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:01**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.21	F	Ru	1.544	5.013	3276.6119
4	5.73	Bromide	M	0.368	1.123	2862.3136
5	6.33	NO3	MB	0.365	0.959	418.0997
6	8.73	OPO4	BMB	0.269	0.509	2896.1377
8	10.72	SO4	BMB	27.171	47.687	111781.8385
		TOTAL:		29.72	55.29	121235.00



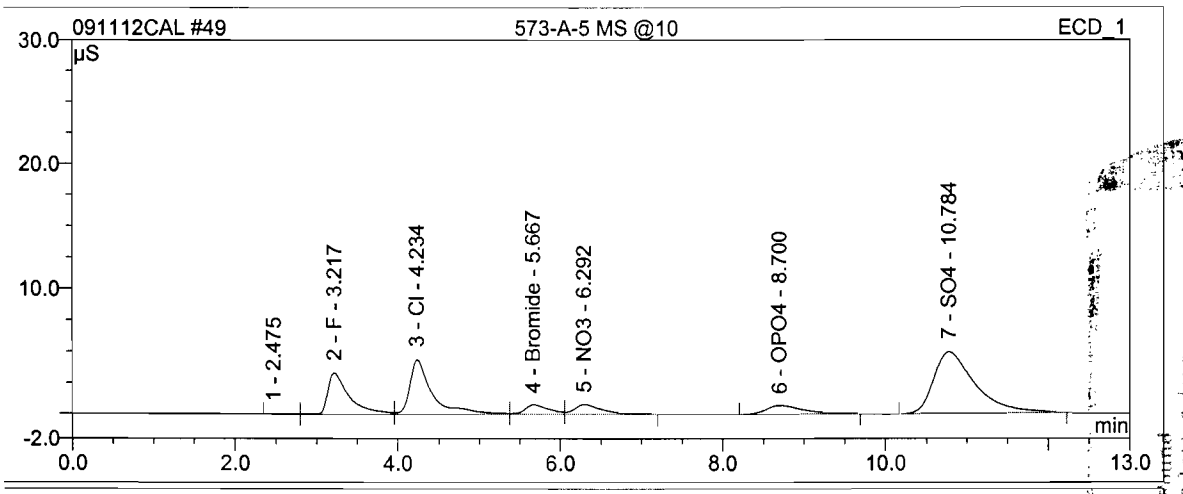


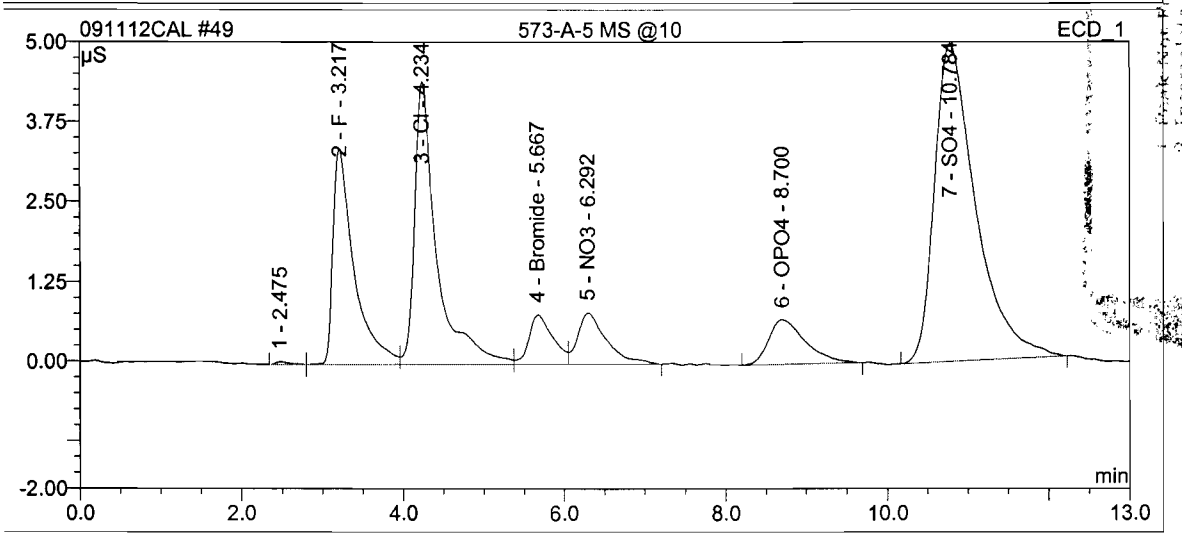
Integration Report - ECD_1

Sample Name:	**573-A-5 MS @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:17**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	bM	1.023	3.356	2170.9193
3	4.23	Cl	M	1.417	4.425	3776.3237
4	5.67	Bromide	M	0.273	0.787	2125.9999
5	6.29	NO3	MB	0.338	0.817	386.9468
6	8.70	OPO4	BMB	0.378	0.704	4060.4420
7	10.78	SO4	BMB	2.935	4.979	12075.6255
		TOTAL:		6.36	15.07	24596.26

MI
JB
SEP 13 2012



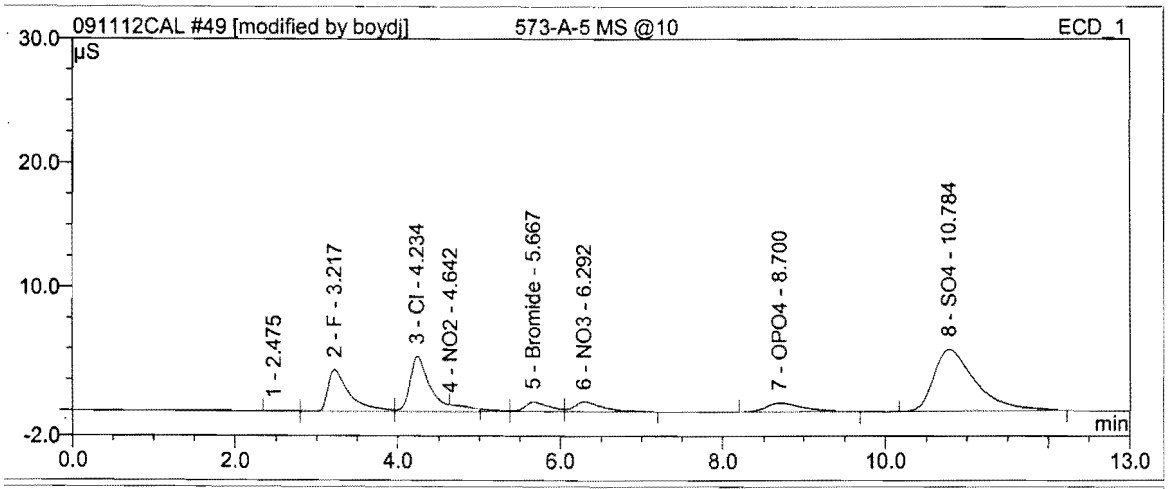


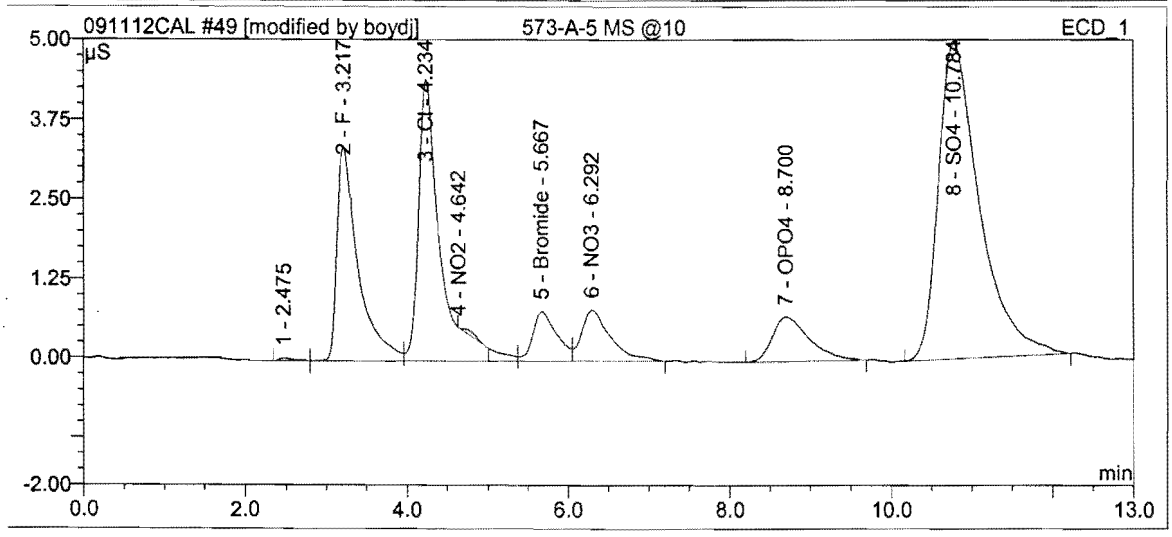
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak - NOT rider
4. Wrong Peak
5. Baseline Smoothing
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**573-A-5 MS @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:17**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	bM	1.023	3.356	2170.9193
3	4.23	Cl	M *	1.405	4.425	3744.7829
4	4.64	NO2	Rd*	0.012	0.000	43.5384
5	5.67	Bromide	M	0.273	0.787	2125.9999
6	6.29	NO3	MB	0.338	0.817	386.9468
7	8.70	OPO4	BMB	0.378	0.704	4060.4420
8	10.78	SO4	BMB	2.935	4.979	12075.6255
		TOTAL:		6.36	15.07	24608.25



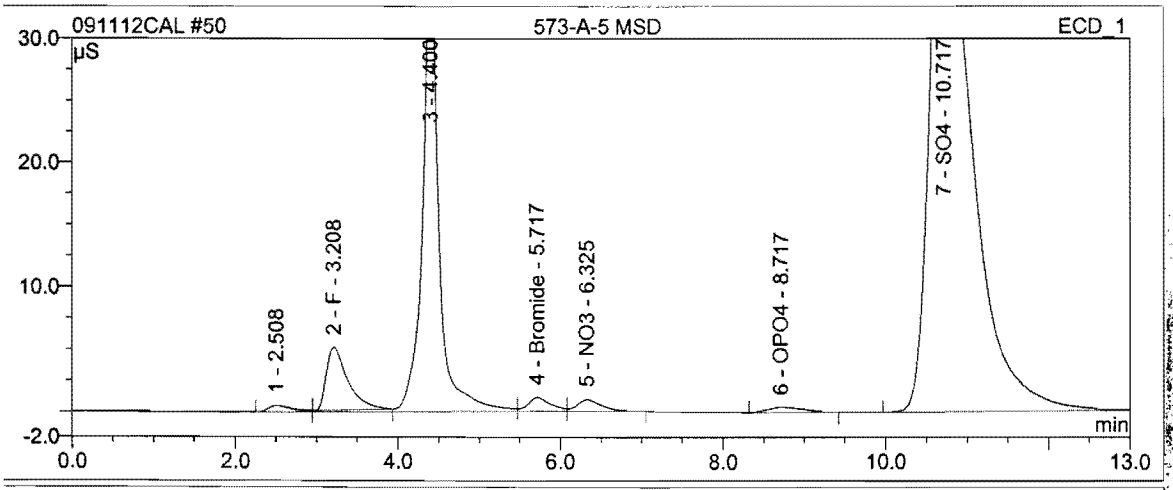


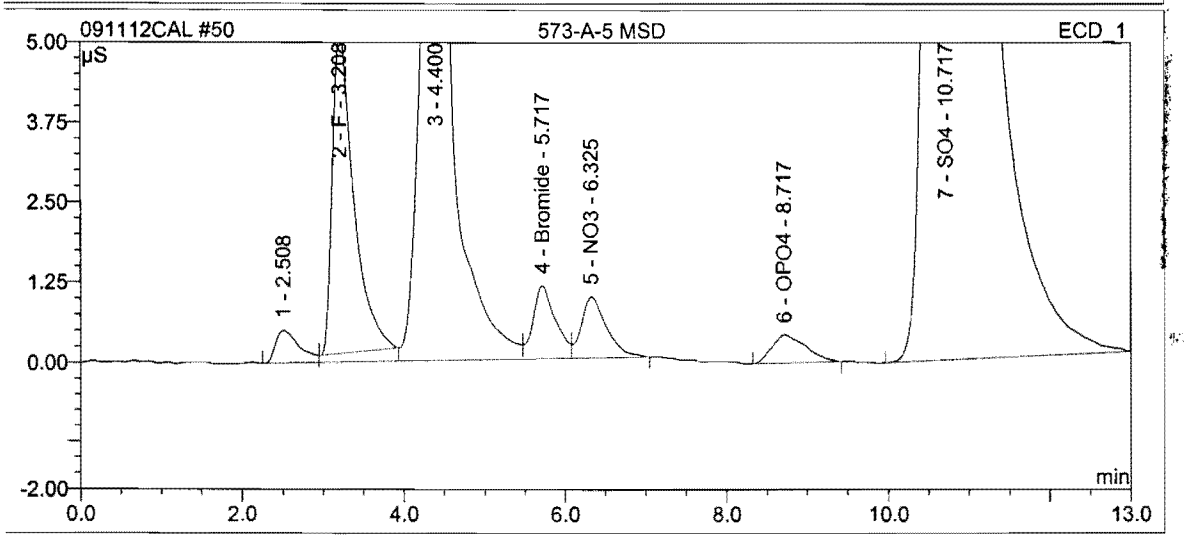
Integration Report - ECD_1

Sample Name:	**573-A-5 MSD**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:32**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.21	F	Ru	1.532	5.001	3251.3255
4	5.72	Bromide	M	0.370	1.129	2874.5937
5	6.33	NO3	MB	0.342	0.947	392.0198
6	8.72	OPO4	BMB	0.215	0.436	2313.0900
7	10.72	SO4	BMB	27.172	47.613	111786.7324
		TOTAL:		29.63	55.13	120617.76

SEP 13 2012



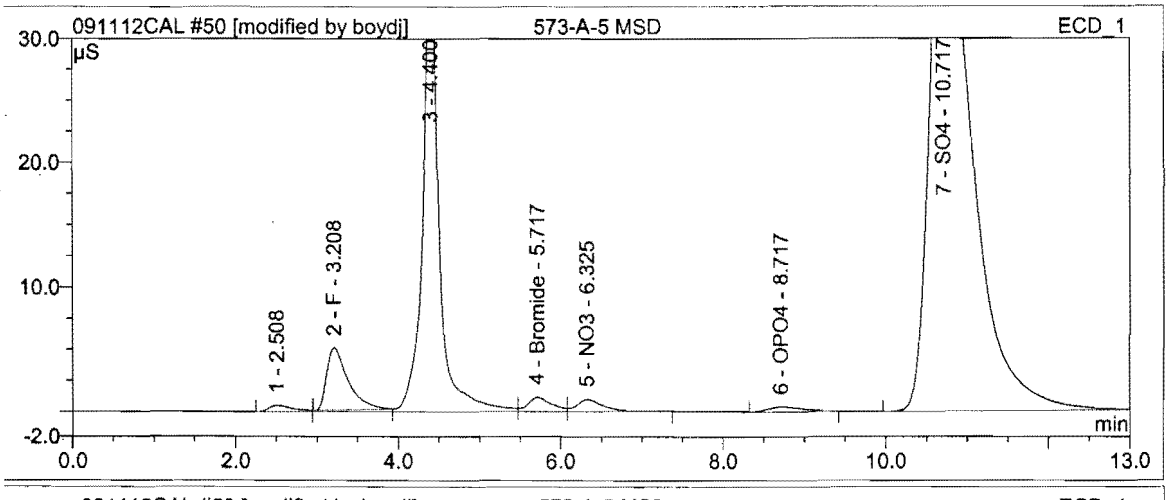


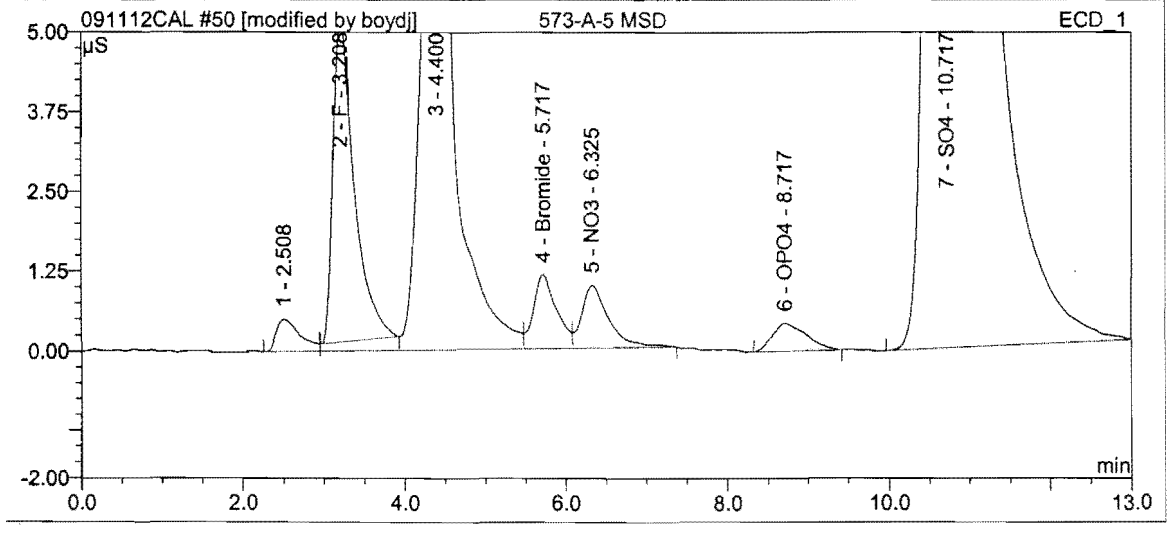
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**573-A-5 MSD**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:32**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.21	F	Ru	1.532	5.001	3251.3255
4	5.72	Bromide	M *	0.385	1.155	2995.7305
5	6.33	NO3	MB*	0.381	0.977	435.8755
6	8.72	OPO4	BMB	0.215	0.436	2313.0900
7	10.72	SO4	BMB	27.172	47.613	111786.7324
			TOTAL:	29.69	55.18	120782.75



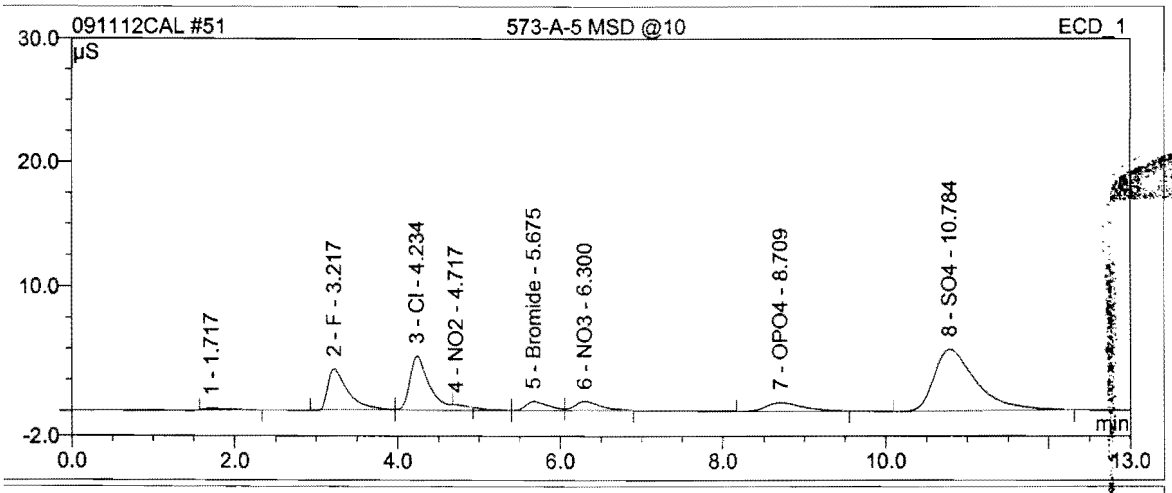


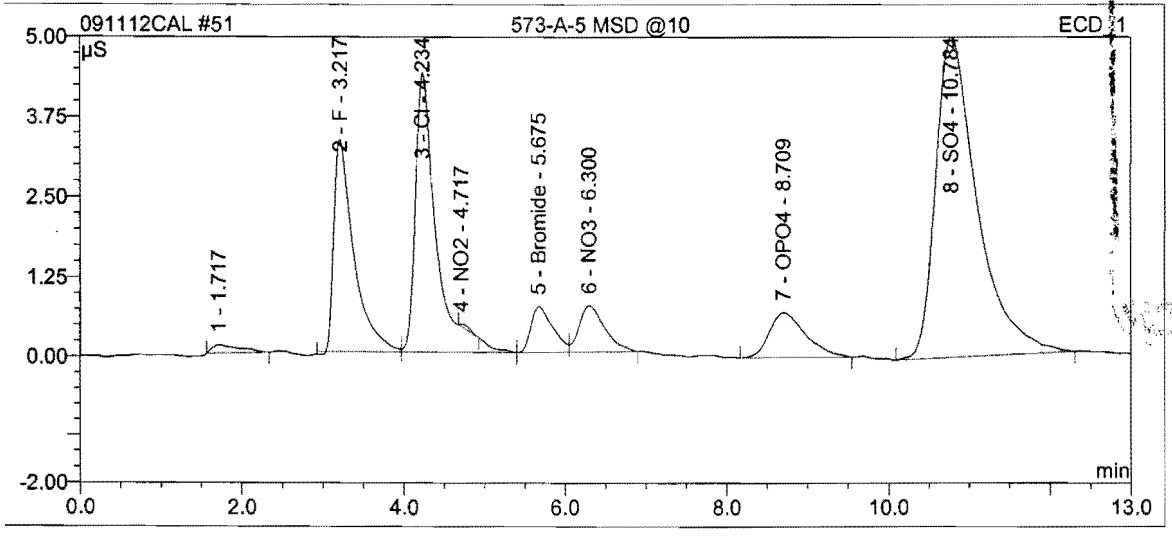
Integration Report - ECD_1

Sample Name:	**573-A-5 MSD @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:48**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M	0.948	3.303	2011.7050
3	4.23	Cl	MB	1.311	4.363	3495.2793
4	4.72	NO2	Rd	0.008	0.039	28.5187
5	5.68	Bromide	bM	0.225	0.719	1752.8760
6	6.30	NO3	MB	0.267	0.730	305.1909
7	8.71	OPO4	BMB	0.369	0.705	3964.1042
8	10.78	SO4	BMB	2.985	5.009	12279.6609
		TOTAL:		6.11	14.87	23837.34

MI
SB
SEP 13 2012



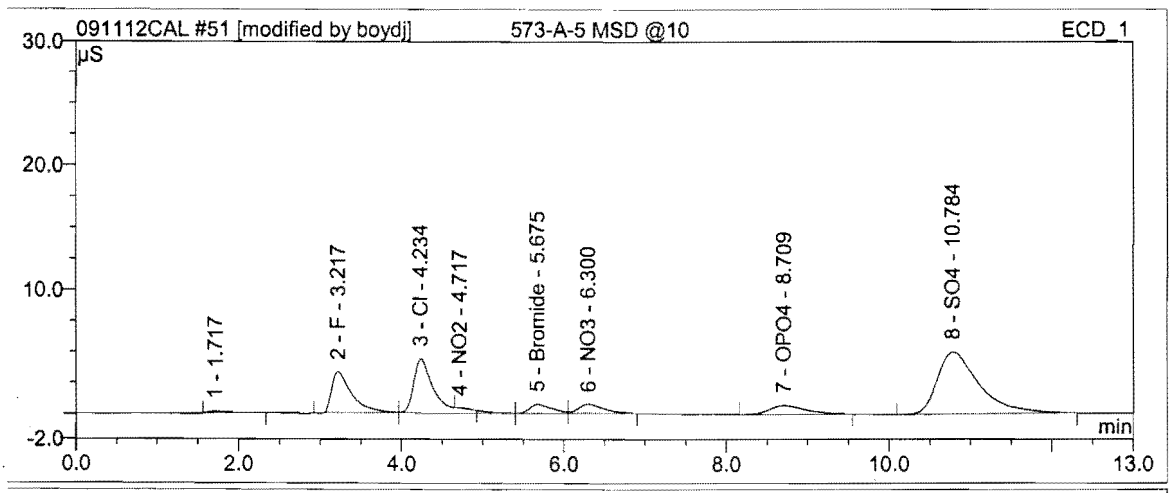


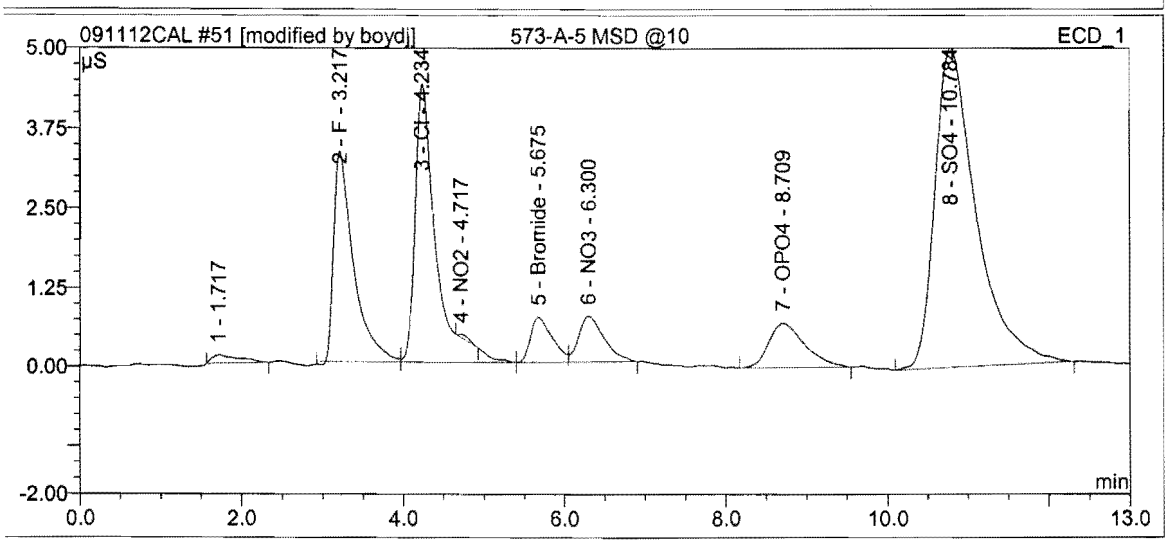
1. Peak Not Found
2. Incomplete Integration
3. Average Peak
4. Wrong Peak
5. Baseline Smoothing - NO2
6. Split Peak
7. Other _____

Integration Report - ECD_1

Sample Name:	**573-A-5 MSD @10**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 03:48**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.22	F	M	0.948	3.303	2011.7050
3	4.23	Cl	Mb*	1.310	4.363	3490.5252
4	4.72	NO2	Rd*	0.010	0.050	35.0812
5	5.68	Bromide	bM	0.225	0.719	1752.8760
6	6.30	NO3	MB	0.267	0.730	305.1909
7	8.71	OPO4	BMB	0.369	0.705	3964.1042
8	10.78	SO4	BMB	2.985	5.009	12279.6609
		TOTAL:		6.11	14.88	23839.14



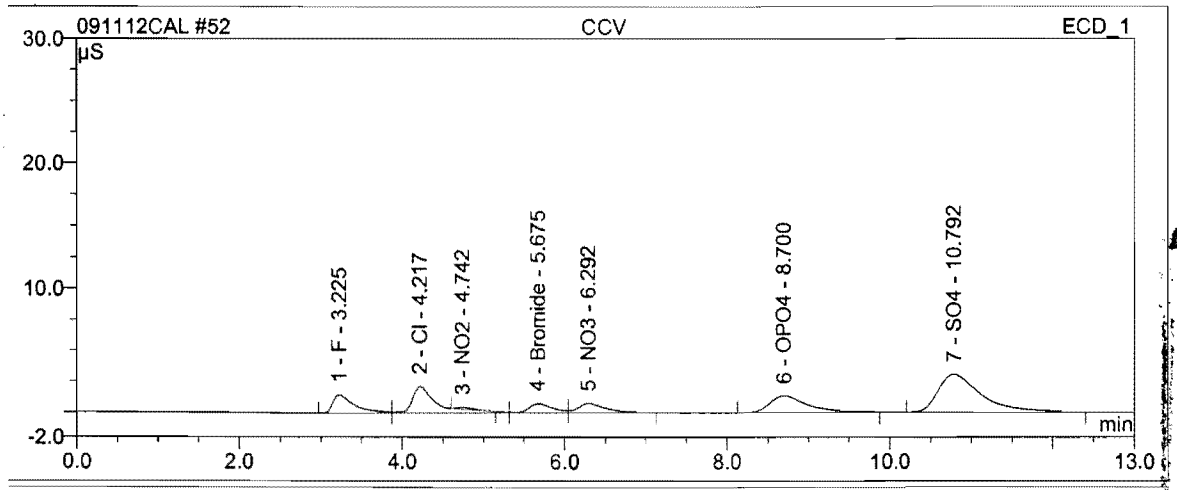


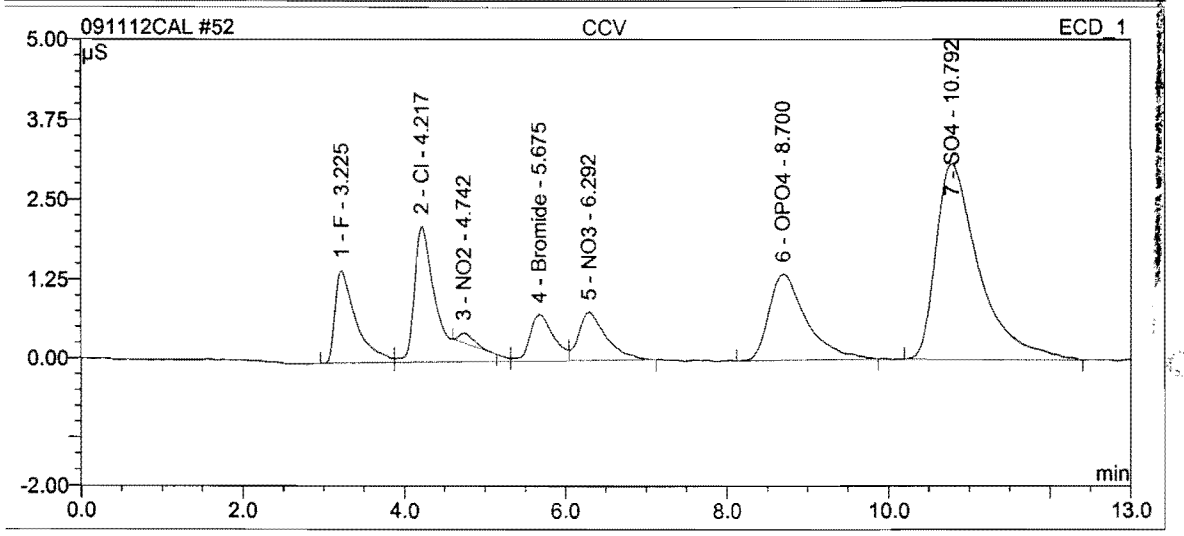
Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:03**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.23	F	BM	0.442	1.459	939.2174
2	4.22	Cl	M	0.763	2.140	2033.4187
3	4.74	NO2	Rd	0.037	0.163	134.6336
4	5.68	Bromide	M	0.253	0.736	1969.6875
5	6.29	NO3	MB	0.304	0.764	348.0692
6	8.70	OPO4	BMB	0.741	1.363	7960.1164
7	10.79	SO4	BMB	1.899	3.069	7813.3512
		TOTAL:		4.44	9.69	21198.49

MI
JB
SEP 13 2012



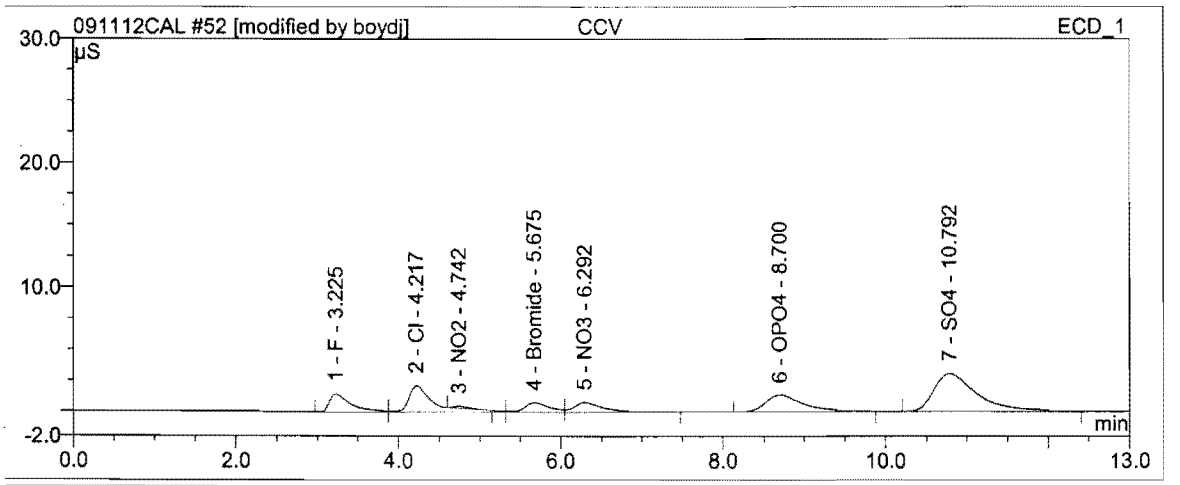


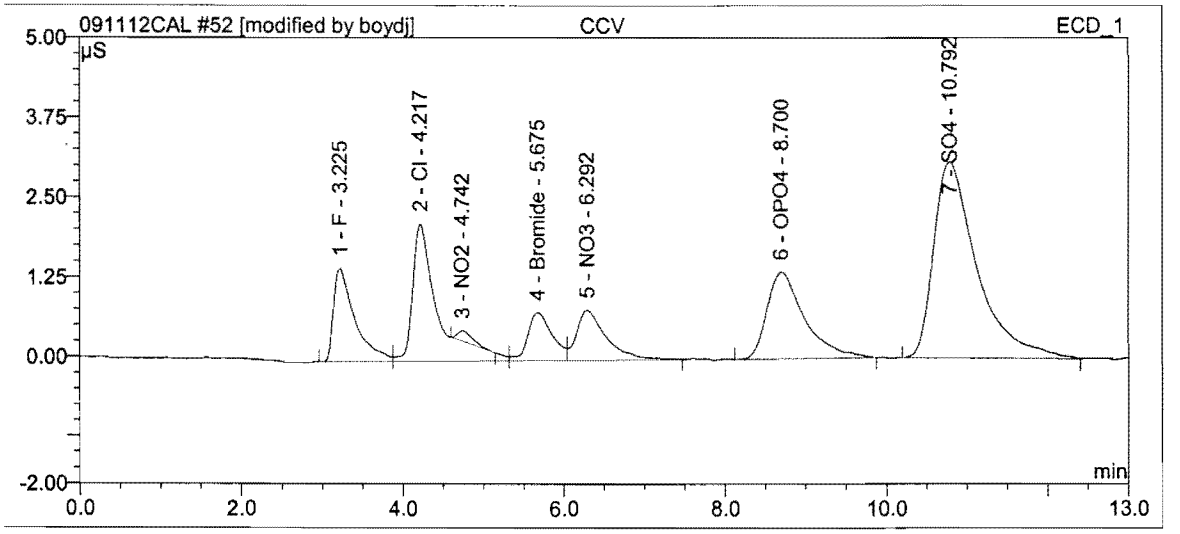
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -103
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:03**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.23	F	BM *	0.445	1.461	944.8669
2	4.22	Cl	M *	0.778	2.148	2073.8067
3	4.74	NO2	Rd	0.037	0.163	134.6336
4	5.68	Bromide	M *	0.266	0.754	2068.3295
5	6.29	NO3	MB*	0.335	0.785	383.8370
6	8.70	OPO4	BMB	0.741	1.363	7960.1164
7	10.79	SO4	BMB	1.899	3.069	7813.3512
			TOTAL:	4.50	9.74	21378.94

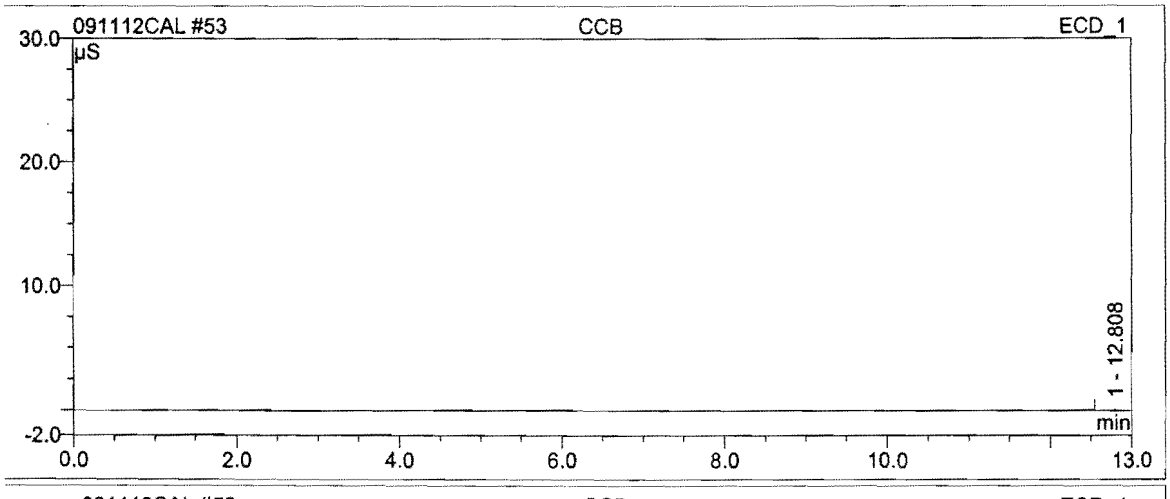


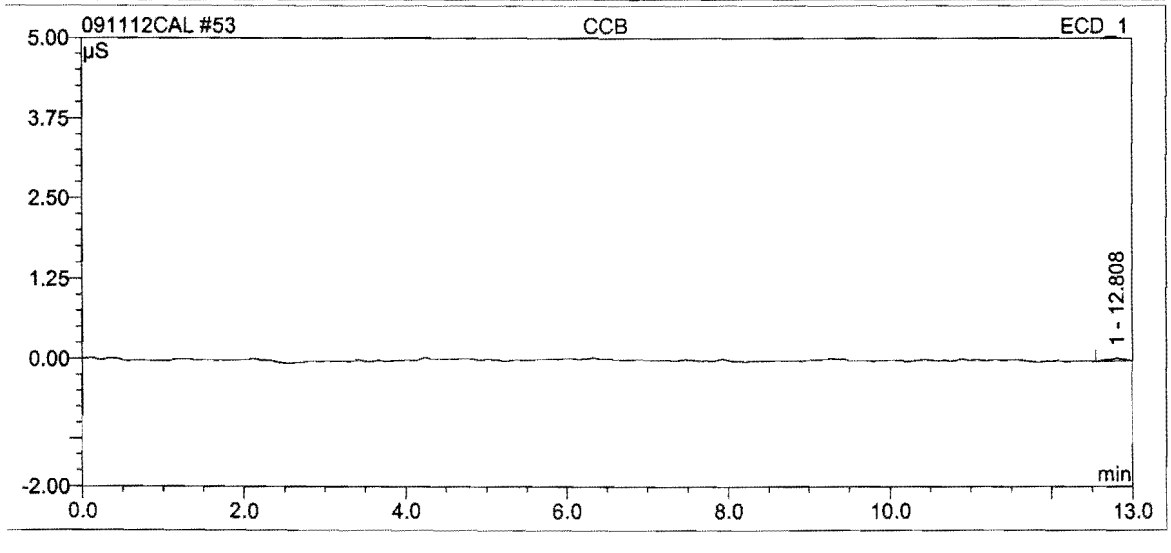


Integration Report - ECD_1

Sample Name:	**CCB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:18**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
		TOTAL:		0.00	0.00	0.00



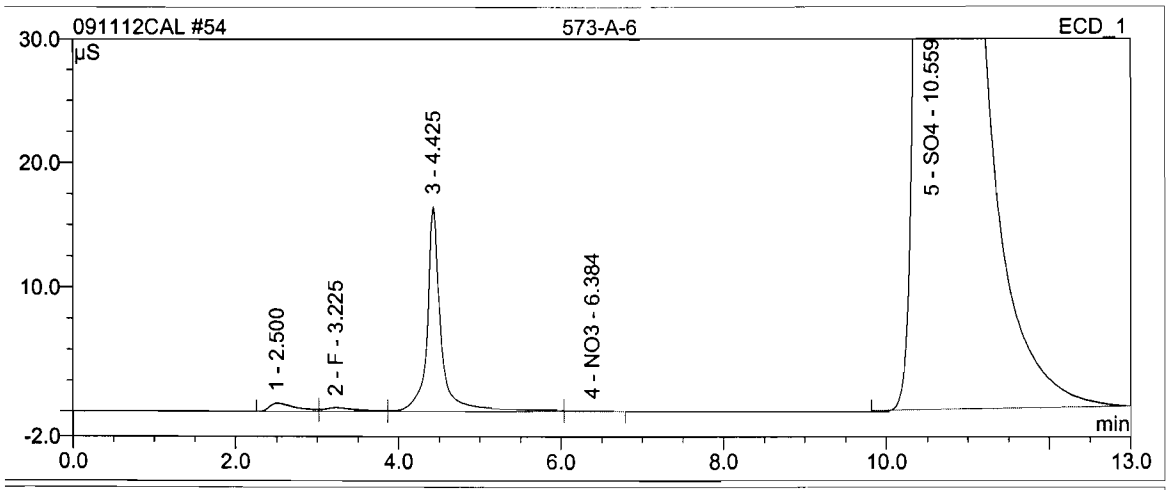


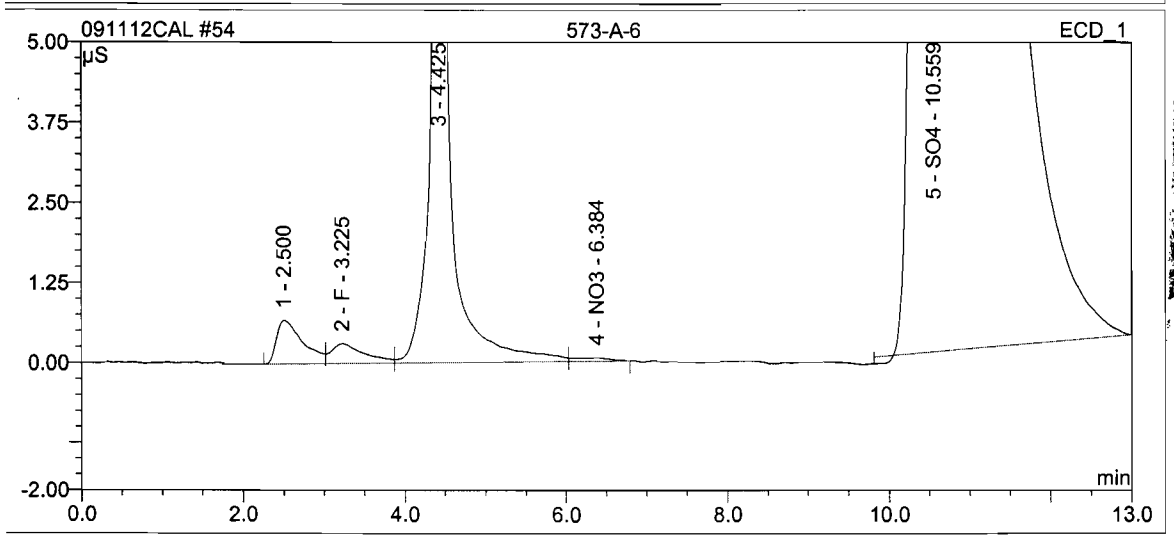
Integration Report - ECD_1

Sample Name:	**573-A-6**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:34**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M	0.144	0.304	306.0593
4	6.38	NO3	MB	0.030	0.059	34.1109
5	10.56	SO4	MB	87.798	138.604	361199.6750
		TOTAL:		87.97	138.97	361539.85

MI
JB
SEP 13 2012



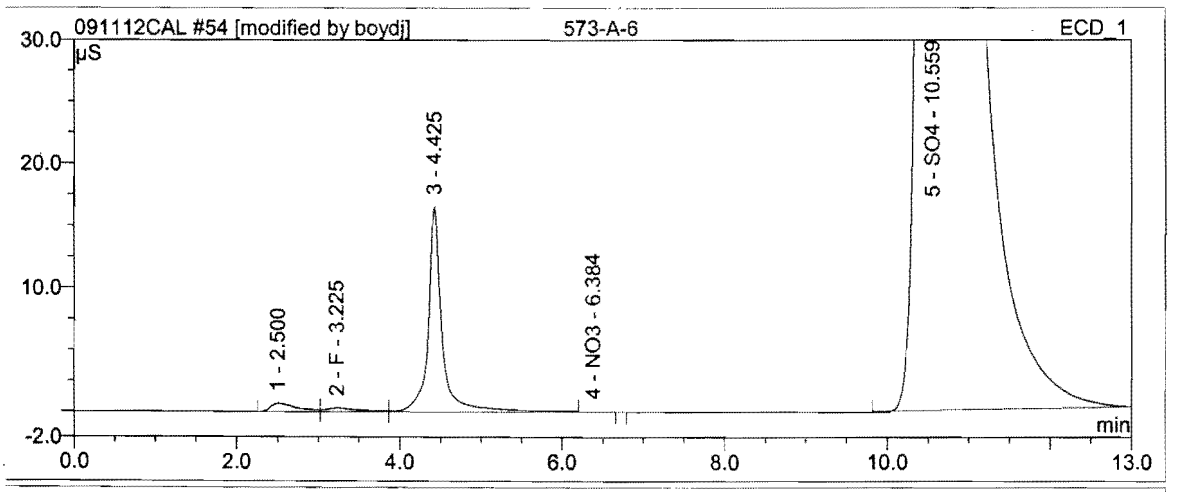


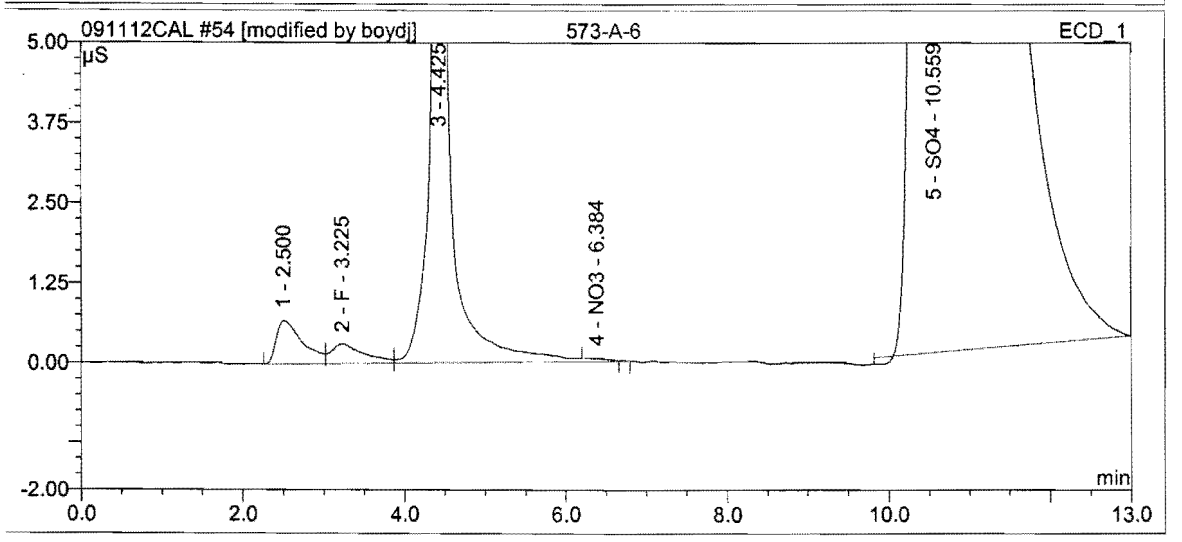
1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing - NO3 = rider
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**573-A-6**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:34**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.23	F	M	0.144	0.304	306.0593
4	6.38	NO3	Rd*	0.005	0.022	5.2000
5	10.56	SO4	MB	87.798	138.604	361199.6750
		TOTAL:		87.95	138.93	361510.93

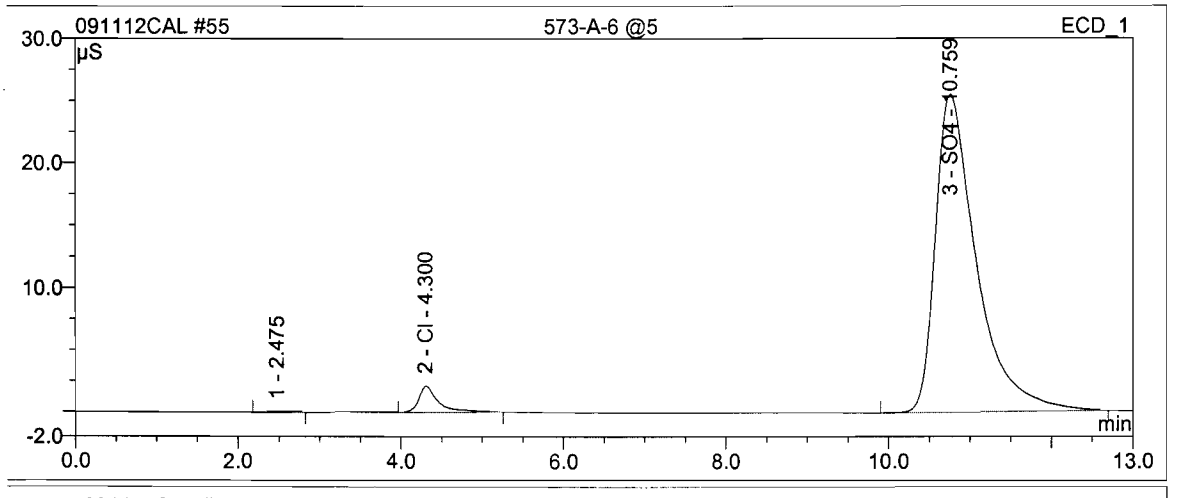


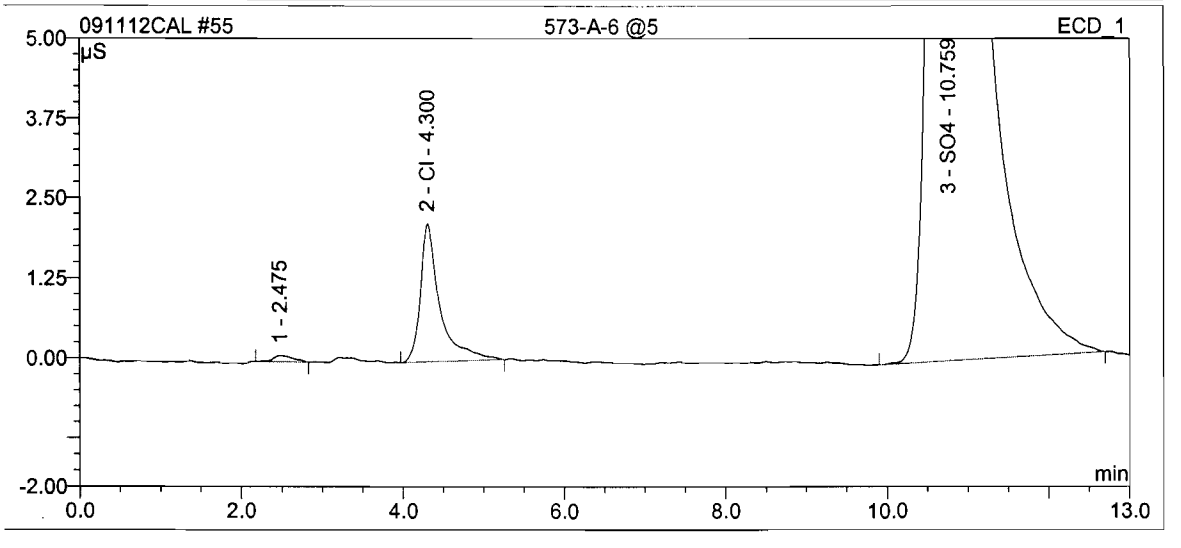


Integration Report - ECD_1

Sample Name:	**573-A-6 @5**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 04:49**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	4.30	Cl	BMB	0.611	2.152	1629.1739
3	10.76	SO4	BMB	14.913	25.560	61350.9549
		TOTAL:		15.52	27.71	62980.13

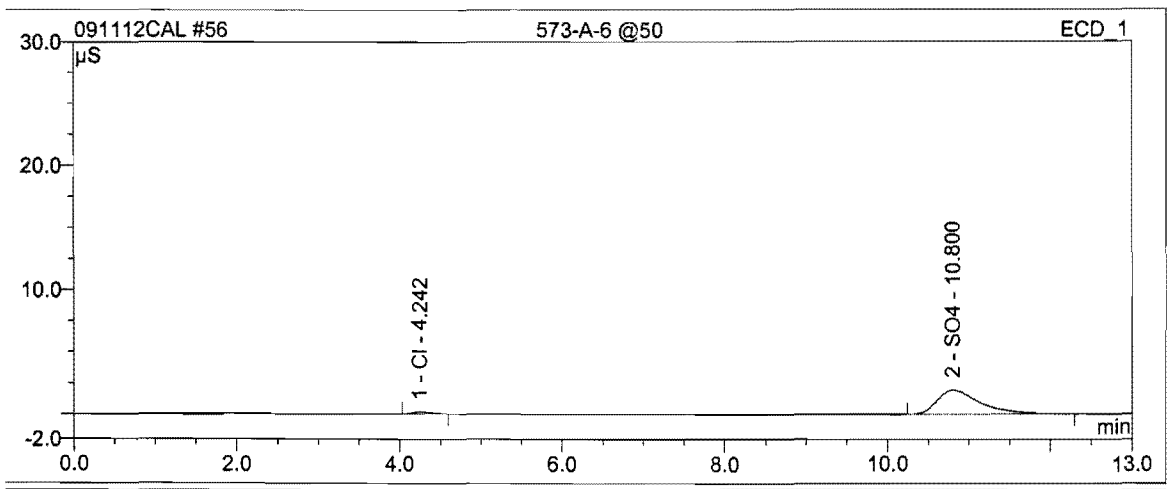


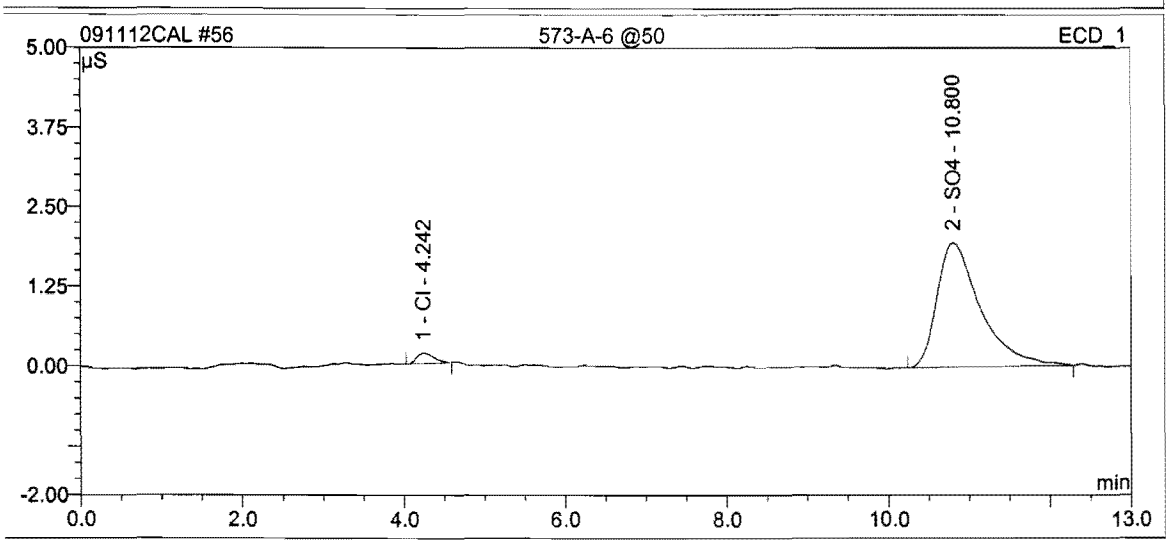


Integration Report - ECD_1

Sample Name:	**573-A-6 @50**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 05:05**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.24	Cl	BMB	0.041	0.164	109.3628
2	10.80	SO4	BMB	1.208	1.947	4968.6018
		TOTAL:		1.25	2.11	5077.96

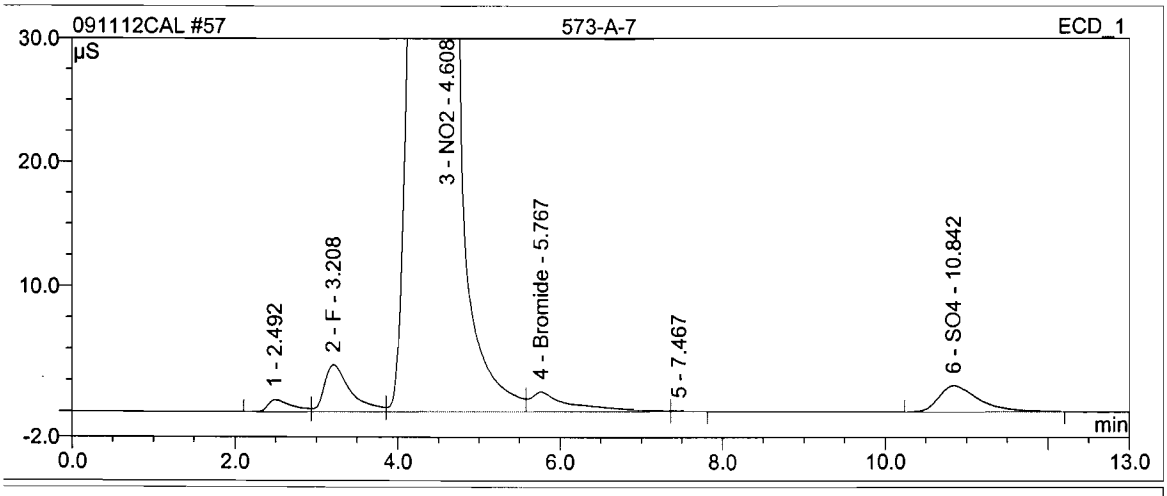


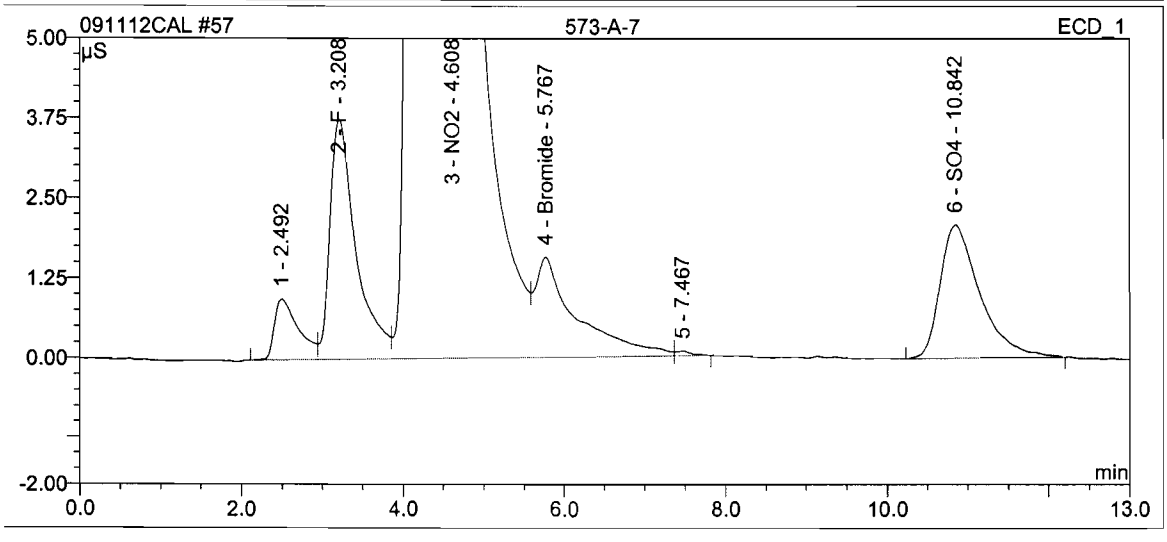


Integration Report - ECD_1

Sample Name:	**573-A-7**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 05:20**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
2	3.21	F	M	1.398	3.742	2968.2236
3	4.61	NO2	M	85.061	233.703	312976.6771
4	5.77	Bromide	M	0.954	1.574	7420.7981
6	10.84	SO4	BMB	1.191	2.087	4898.2007
		TOTAL:		88.60	241.11	328263.90

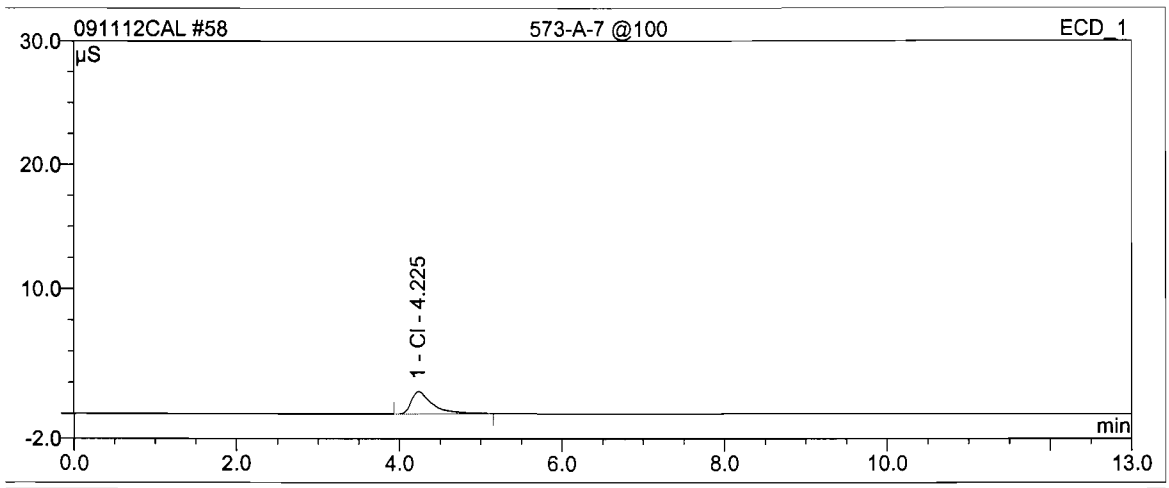


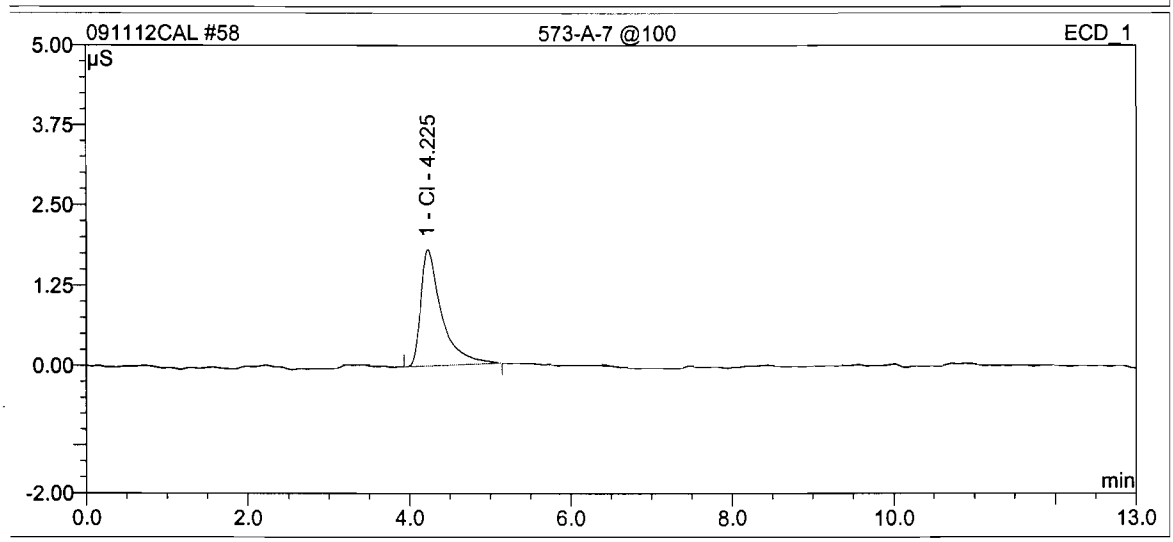


Integration Report - ECD_1

Sample Name:	**573-A-7 @100**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 05:35**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.23	Cl	BMB	0.548	1.814	1460.3449
		TOTAL:		0.55	1.81	1460.34



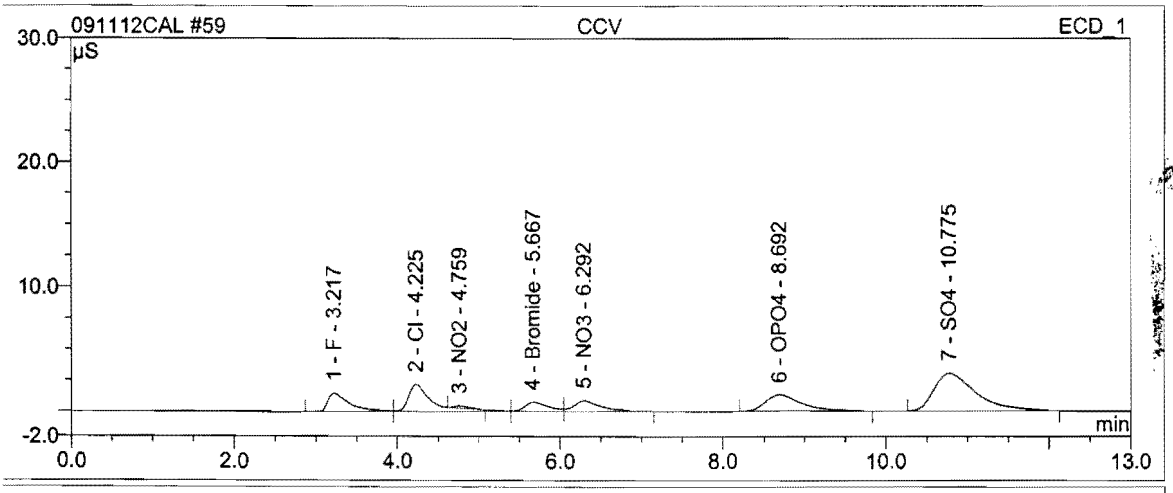


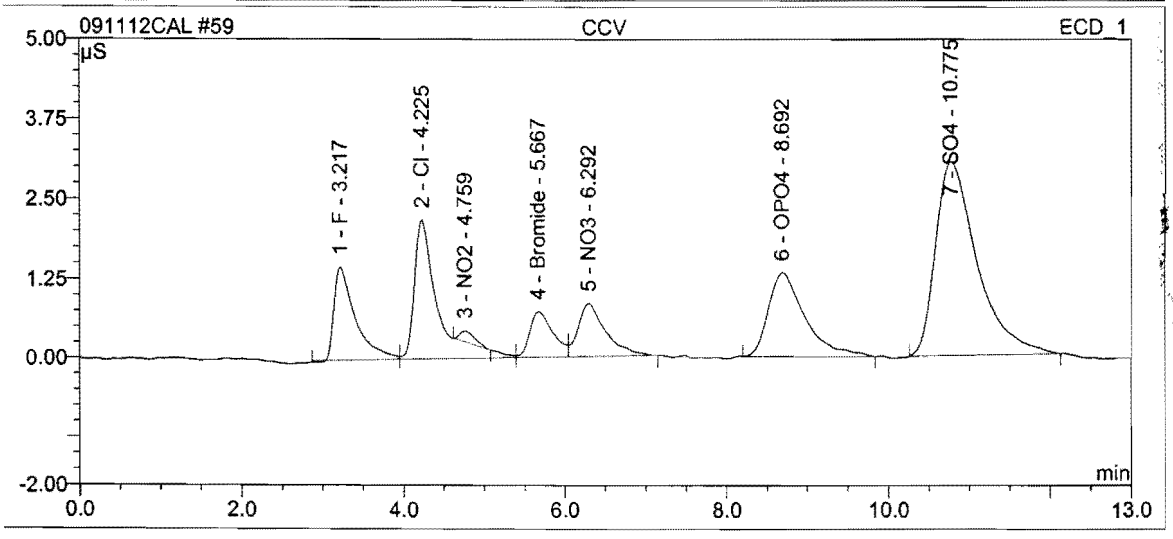
Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 05:51**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.22	F	M	0.448	1.469	950.9984
2	4.23	Cl	M	0.745	2.187	1985.0679
3	4.76	NO2	Rd	0.040	0.180	146.4216
4	5.67	Bromide	M	0.244	0.725	1900.5799
5	6.29	NO3	MB	0.332	0.842	380.4118
6	8.69	OPO4	BMB	0.697	1.323	7495.6062
7	10.78	SO4	BMB	1.803	3.033	7418.3148
		TOTAL:		4.31	9.76	20277.40

MI
JB
SEP 1 3 2012



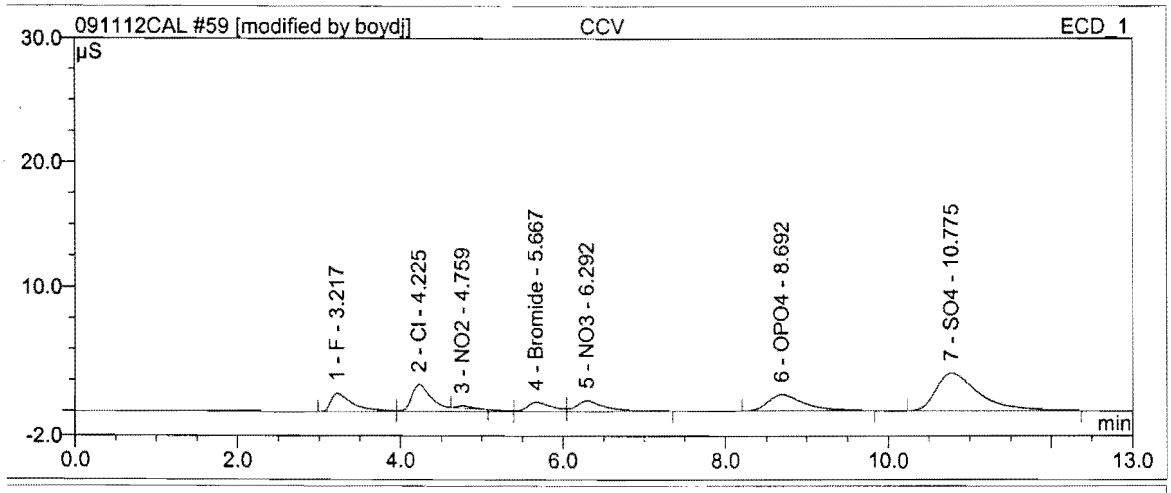


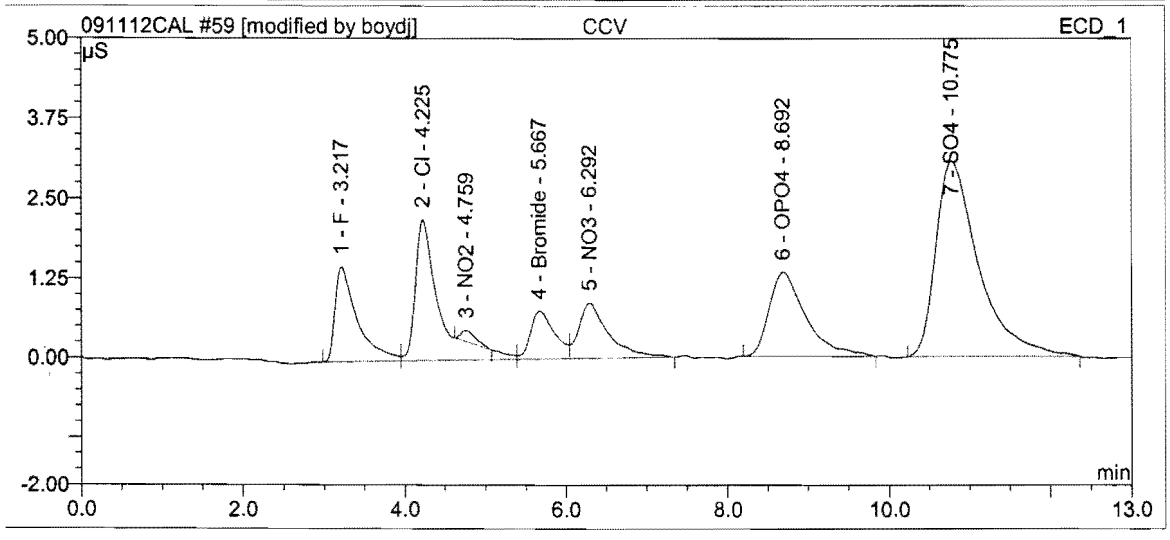
1. Peak not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing -F, NO3, SO4
6. Split Peak
7. Other

Integration Report - ECD_1

Sample Name:	**CCV**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 05:51**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	3.22	F	BM *	0.471	1.489	998.9468
2	4.23	Cl	M *	0.779	2.210	2076.7959
3	4.76	NO2	Rd	0.040	0.180	146.4216
4	5.67	Bromide	M *	0.262	0.752	2036.1303
5	6.29	NO3	MB*	0.368	0.871	421.4220
6	8.69	OPO4	BMB	0.697	1.323	7495.6062
7	10.78	SO4	BMB*	1.874	3.057	7709.7380
		TOTAL:		4.49	9.88	20885.06

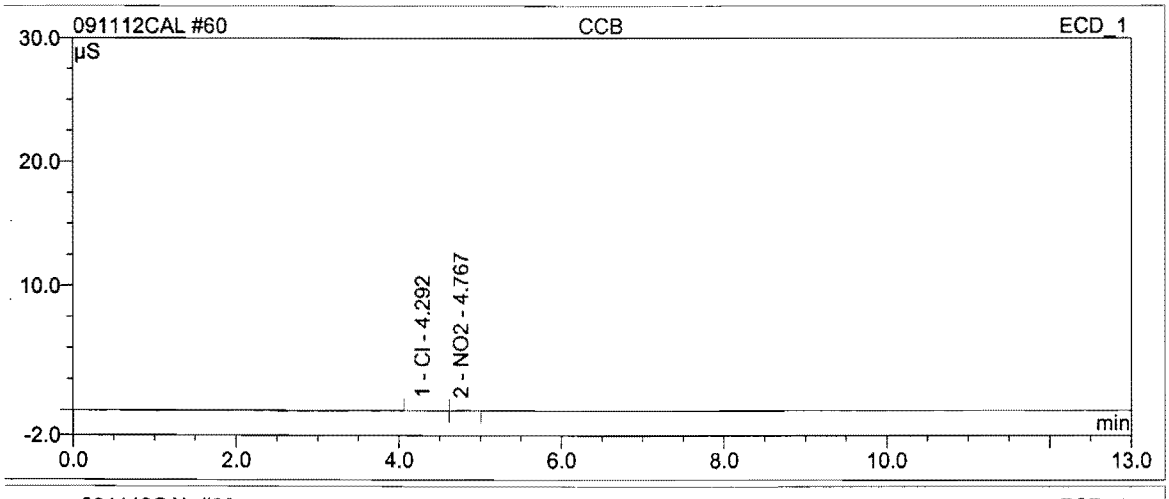


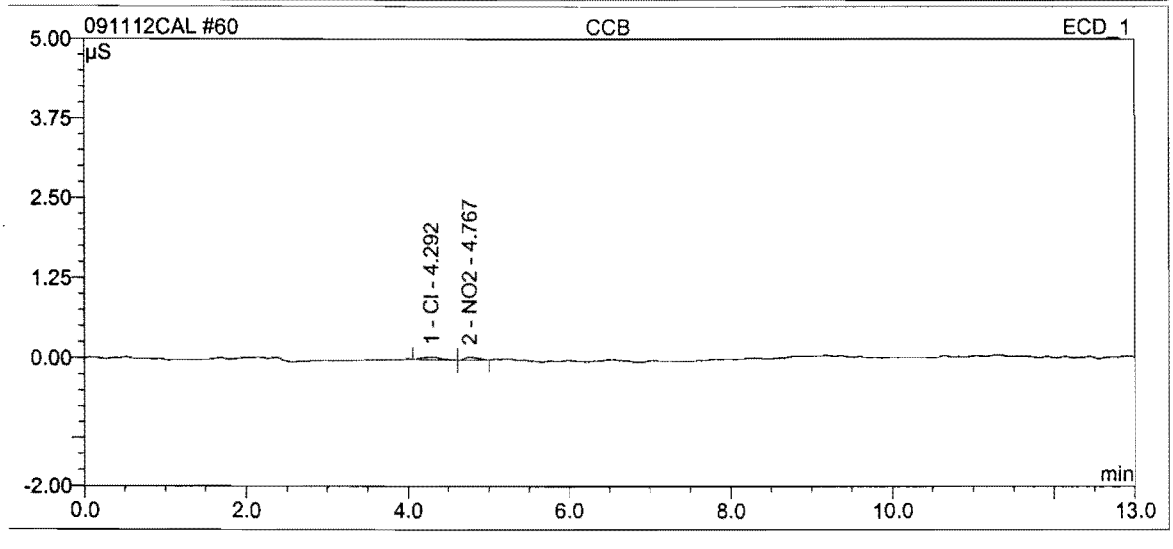


Integration Report - ECD_1

Sample Name:	**CCB**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Routine**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 06:06**	*Run Time:*	**13.00**

No. ECD_1	Time ECD_1 min	Peak Name ECD_1	Type ECD_1	Area ECD_1 µS*min	Height ECD_1 µS	Amount ECD_1
1	4.29	Cl	BMb	0.012	0.043	31.6792
2	4.77	NO2	bMB	0.009	0.050	33.7296
		TOTAL:		0.02	0.09	65.41





Integration Report - ECD_1

Sample Name:	**END**	*Inj. Vol.:*	**50.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Claire_Shutdown**	*Operator:*	**n.a.**
Inj. Date/Time:	**12.09.12 06:22**	*Run Time:*	**n.a.**

n.a.	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**
n.a.	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**
n.a.	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**
		TOTAL:		0.00	0.00	0.00

091112CAL #61 END ECD_1

Can't open raw data file "C:\Chromel\data\CLAIRE\Sequences\12SEPT\091112CAL.SEQ\ECD_1.CHL\15056.acd".
The system cannot find the file specified.

091112CAL #61 END ECD_1

Can't open raw data file "C:\Chromel\data\CLAIRE\Sequences\12SEPT\091112CAL.SEQ\ECD_1.CHL\15056.acd".
The system cannot find the file specified.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Batch Number: 10927 Batch Start Date: 09/11/12 14:57 Batch Analyst: Boyd, Jacob

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	IC 2nd Source 00002	IC Cal High 00007	IC MS Soln 00002		
ICV 160-10927/7		300.0		5 mL	2 mL				
ICB 160-10927/8		300.0		5 mL					
MB 160-10927/9		300.0		5 mL					
LCS 160-10927/10		300.0		5 mL	2 mL				
160-561-A-1	PZ-303-AS	300.0	T	5 mL					
160-561-A-1 ^50	PZ-303-AS	300.0	T	5 mL					
160-561-A-2	D-13	300.0	T	5 mL					
160-561-A-2 ^10	D-13	300.0	T	5 mL					
160-561-A-2 ^50	D-13	300.0	T	5 mL					
160-561-A-3	PZ-304-AS	300.0	T	5 mL					
160-561-A-3 ^200	PZ-304-AS	300.0	T	5 mL					
CCV 160-10927/18		300.0		5 mL		2 mL			
CCB 160-10927/19		300.0		5 mL					
160-561-A-4	I-67	300.0	T	5 mL					
160-561-A-4 ^10	I-67	300.0	T	5 mL					
160-561-A-4 ^100	I-67	300.0	T	5 mL					
160-561-A-5	PZ-304-AI	300.0	T	5 mL					
160-561-A-5 ^200	PZ-304-AI	300.0	T	5 mL					
160-561-A-6	I-66	300.0	T	5 mL					
160-561-A-6 ^50	I-66	300.0	T	5 mL					
160-561-A-7	DUP-06	300.0	T	5 mL					
160-561-A-7 ^10	DUP-06	300.0	T	5 mL					
160-561-A-7 ^50	DUP-06	300.0	T	5 mL					
CCV 160-10927/30		300.0		5 mL		2 mL			
CCB 160-10927/31		300.0		5 mL					
160-561-A-8	MW-103	300.0	T	5 mL					
160-561-A-8 ^10	MW-103	300.0	T	5 mL					
160-561-A-8 MS	MW-103	300.0	T	5 mL			0.1 mL		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 160-561-1

SDG No.:

Batch Number: 10927 Batch Start Date: 09/11/12 14:57 Batch Analyst: Boyd, Jacob

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	IC 2nd Source 00002	IC Cal High 00007	IC MS Soln 00002		
160-561-A-8 MS ^10	MW-103	300.0	T	5 mL			0.1 mL		
CCV 160-10927/42		300.0		5 mL		2 mL			
CCB 160-10927/43		300.0		5 mL					
160-573-A-5 MSD		300.0	T	5 mL			0.1 mL		
160-573-A-5 MSD ^10		300.0	T	5 mL			0.1 mL		
CCV 160-10927/52		300.0		5 mL		2 mL			
CCB 160-10927/53		300.0		5 mL					

Batch Notes	
Balance ID	1123051741
Eluent 1 Lot	Conc. Eluent ID: 17579, Working Eluent ID: 29081
Pipette ID	IC-5, IC-3, WC-A

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-561-1

Login Number: 561

List Source: TestAmerica St. Louis

List Number: 1

Creator: Claxton, Steven

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3,2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	