Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2268	**OrderDate:**	6/6/2025 2:21:00 PM
Client:	PARSONS Engineering of New York, Inc.	**Project:**	Con Ed Non MGP – Atlantic Ave 453957.600024.05
Contact:	Stephen Liberatore	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2268-01	**MW-4-20250605**	**WATER**			**06/05/25 09:20**			**06/06/25**
			Sulfate	300.0			06/09/25 10:51	
			TDS	SM2540 C			06/09/25 12:30	
Q2268-01DL	**MW-4-20250605DL**	**WATER**			**06/05/25 09:20**			**06/06/25**
			Sulfate	300.0			06/09/25 14:48	
Q2268-02	**MW-5-20250605**	**WATER**			**06/05/25 10:40**			**06/06/25**
			Sulfate	300.0			06/09/25 11:12	
			TDS	SM2540 C			06/09/25 12:30	
Q2268-02DL	**MW-5-20250605DL**	**WATER**			**06/05/25 10:40**			**06/06/25**
			Sulfate	300.0			06/09/25 15:09	
Q2268-03	**MW-2-20250605**	**WATER**			**06/05/25 12:15**			**06/06/25**
			Sulfate	300.0			06/09/25 11:34	
			TDS	SM2540 C			06/09/25 12:30	
Q2268-06	**MW-2-20250605-A**	**WATER**			**06/05/25 12:15**			**06/06/25**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

			Sulfate	300.0		06/09/25 12:39	
			TDS	SM2540 C		06/09/25 12:30	
Q2268-07	**MW-6-20250605**	**WATER**			**06/05/25 13:50**		**06/06/25**
			Sulfate	300.0		06/09/25 13:00	
			TDS	SM2540 C		06/09/25 12:30	
Q2268-08	**MW-3-20250605**	**WATER**			**06/05/25 14:45**		**06/06/25**
			Sulfate	300.0		06/09/25 13:22	
			TDS	SM2540 C		06/09/25 12:30	
Q2268-10	**FB-20250605**	**WATER**			**06/05/25 15:00**		**06/06/25**
			Sulfate	300.0		06/09/25 14:26	
			TDS	SM2540 C		06/09/25 12:30	

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 09:20
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-4-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	71.5	OR	1	0.46	3.00	mg/L		06/09/25 10:51	300.0
TDS	2140		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 09:20
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-4-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	66.3	D	5	2.30	15.0	mg/L		06/09/25 14:48	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 10:40
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-5-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	101	OR	1	0.46	3.00	mg/L		06/09/25 11:12	300.0
TDS	607		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 10:40
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-5-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	91.6	D	10	4.60	30.0	mg/L		06/09/25 15:09	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 12:15
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	12.4		1	0.46	3.00	mg/L		06/09/25 11:34	300.0
TDS	795		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 12:15
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-A	SDG No.:	Q2268
Lab Sample ID:	Q2268-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	12.3		1	0.46	3.00	mg/L		06/09/25 12:39	300.0
TDS	816		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 13:50
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-6-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	20.6		1	0.46	3.00	mg/L		06/09/25 13:00	300.0
TDS	1440		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 14:45
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-3-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	14.1		1	0.46	3.00	mg/L		06/09/25 13:22	300.0
TDS	538		1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25 15:00
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	FB-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	0.46	U	1	0.46	3.00	mg/L		06/09/25 14:26	300.0
TDS	1.00	U	1	1.00	10.0	mg/L		06/09/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Initial and Continuing Calibration Verification

Client: PARSONS Engineering of New York, Inc. **SDG No.:** Q2268

Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05 **RunNo.:** LB136070

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	05/22/2025
Chloride	mg/L	3.1	3	103	90-110	05/22/2025
Fluoride	mg/L	2.1	2	105	90-110	05/22/2025
Nitrite	mg/L	3.1	3	103	90-110	05/22/2025
Nitrate	mg/L	2.6	2.5	104	90-110	05/22/2025
Sulfate	mg/L	15.1	15	101	90-110	05/22/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	05/22/2025
Sample ID: CCV1						
Bromide	mg/L	10.4	10	104	90-110	06/09/2025
Chloride	mg/L	3.1	3	103	90-110	06/09/2025
Fluoride	mg/L	2.1	2	105	90-110	06/09/2025
Nitrite	mg/L	3.1	3	103	90-110	06/09/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/09/2025
Sulfate	mg/L	15.4	15	103	90-110	06/09/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	06/09/2025
Sample ID: CCV2						
Bromide	mg/L	10.3	10	103	90-110	06/09/2025
Chloride	mg/L	3.1	3	103	90-110	06/09/2025
Fluoride	mg/L	2.1	2	105	90-110	06/09/2025
Nitrite	mg/L	3.1	3	103	90-110	06/09/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/09/2025
Sulfate	mg/L	15.2	15	101	90-110	06/09/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/09/2025
Sample ID: CCV3						
Bromide	mg/L	10.3	10	103	90-110	06/09/2025
Chloride	mg/L	3.1	3	103	90-110	06/09/2025
Fluoride	mg/L	2.1	2	105	90-110	06/09/2025
Nitrite	mg/L	3.1	3	103	90-110	06/09/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/09/2025
Sulfate	mg/L	15.3	15	102	90-110	06/09/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: PARSONS Engineering of New York, Inc. **SDG No.:** Q2268

Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05 **RunNo.:** LB136070

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	05/22/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	05/22/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	05/22/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	05/22/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	05/22/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	05/22/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	05/22/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/09/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/09/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Preparation Blank Summary

Client: PARSONS Engineering of New York, Inc. **SDG No.:** Q2268

Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136070BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/09/2025
Sample ID: LB136082BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike Summary

Client: PARSONS Engineering of New York, Inc.
SDG No.: Q2268
Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05
Sample ID: Q2268-03
Client ID: MW-2-20250605MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.6		0.64	J	10	1	100		06/09/2025
Chloride	mg/L	80-120	409	OR	426	OR	3	1	-567	*	06/09/2025
Fluoride	mg/L	80-120	2.20		0.16	J	2	1	102		06/09/2025
Nitrite	mg/L	80-120	3.00		0.074	U	3	1	100		06/09/2025
Nitrate	mg/L	80-120	2.60		0.17	J	2.5	1	97		06/09/2025
Sulfate	mg/L	80-120	27.0		12.4		15	1	97		06/09/2025
Orthophosphate as P	mg/L	80-120	5.00		0.34	U	5	1	100		06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike Summary

Client: PARSONS Engineering of New York, Inc.
SDG No.: Q2268
Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05
Sample ID: Q2268-03
Client ID: MW-2-20250605MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.9		0.64	J	10	1	103		06/09/2025
Chloride	mg/L	80-120	408	OR	426	OR	3	1	-600	*	06/09/2025
Fluoride	mg/L	80-120	2.20		0.16	J	2	1	102		06/09/2025
Nitrite	mg/L	80-120	3.10		0.074	U	3	1	103		06/09/2025
Nitrate	mg/L	80-120	2.70		0.17	J	2.5	1	101		06/09/2025
Sulfate	mg/L	80-120	27.4		12.4		15	1	100		06/09/2025
Orthophosphate as P	mg/L	80-120	5.40		0.34	U	5	1	108		06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Duplicate Sample Summary

Client: PARSONS Engineering of New York, Inc.
SDG No.: Q2268
Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05
Sample ID: Q2268-03
Client ID: MW-2-20250605DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	795		805		1	1.25		06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Duplicate Sample Summary

Client: PARSONS Engineering of New York, Inc.
SDG No.: Q2268
Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05
Sample ID: Q2268-03
Client ID: MW-2-20250605MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.20		2.20		1	0		06/09/2025
Chloride	mg/L	+/-20	409	OR	408	OR	1	0		06/09/2025
Sulfate	mg/L	+/-20	27.0		27.4		1	1		06/09/2025
Bromide	mg/L	+/-20	10.6		10.9		1	3		06/09/2025
Nitrite	mg/L	+/-20	3.00		3.10		1	3		06/09/2025
Nitrate	mg/L	+/-20	2.60		2.70		1	4		06/09/2025
Orthophosphate as P	mg/L	+/-20	5.00		5.40		1	8		06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: PARSONS Engineering of New York, Inc. **SDG No.:** Q2268

Project: Con Ed Non MGP – Atlantic Ave 453957.600024.05 **Run No.:** LB136070

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136070BSW								
Bromide	mg/L	10	10.4		104	1	90-110	06/09/2025
Chloride	mg/L	3	3.10		103	1	90-110	06/09/2025
Fluoride	mg/L	2	2.10		105	1	90-110	06/09/2025
Nitrite	mg/L	3	3.10		103	1	90-110	06/09/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	06/09/2025
Sulfate	mg/L	15	15.4		103	1	90-110	06/09/2025
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	06/09/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	PARSONS Engineering of New York, Inc.	**SDG No.:**	Q2268
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	**Run No.:**	LB136082

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136082BS								
TDS	mg/L	100	95.0		95	1	90-110	06/09/2025

Alliance
TECHNICAL GROUP

RAW DATA

Instrument IC-1 Analyst : NF Method: 300.0 / 9056A

Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method nar	date time	Initia	Analyst
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	5/22/2025 11:09	10	NF/IZ
STD2	0.430	0.640	0.649	2.129	0.543	1.098	3.287	IC1-05222	5/22/2025 11:30	10	NF/IZ
STD3	0.795	1.207	1.205	4.018	1.004	1.867	6.069	IC1-05222	5/22/2025 11:52	10	NF/IZ
STD4	0.977	1.480	1.479	4.929	1.229	2.477	7.415	IC1-05222	5/22/2025 12:13	10	NF/IZ
STD5	1.991	2.968	2.960	9.916	2.467	5.110	14.621	IC1-05222	5/22/2025 12:35	10	NF/IZ
STD6	4.001	5.967	5.959	19.868	4.966	9.870	29.848	IC1-05222	5/22/2025 12:56	10	NF/IZ
STD7	5.006	7.539	7.548	25.140	6.290	12.578	37.260	IC1-05222	5/22/2025 13:17	10	NF/IZ
ICV	2.054	3.101	3.056	10.229	2.610	5.286	15.128	IC1-05222	5/22/2025 13:39	10	NF/IZ
ICB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	5/22/2025 14:22	10	NF/IZ
CCV	2.103	3.098	3.100	10.354	2.569	5.112	15.428	IC1-05222	6/9/2025 9:25	10	NF/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	6/9/2025 9:46	10	NF/IZ
LB136070BLW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	6/9/2025 10:08	10	NF/IZ
LB136070BSW	2.114	3.122	3.100	10.397	2.587	5.270	15.362	IC1-05222	6/9/2025 10:29	10	NF/IZ
Q2268-01	0.104	1593.675	0.000	1.794	13.793	0.000	71.455	IC1-05222	6/9/2025 10:51	10	NF/IZ
Q2268-02	0.082	205.457	0.079	0.413	0.202	0.000	101.002	IC1-05222	6/9/2025 11:12	10	NF/IZ
Q2268-03	0.163	425.946	0.000	0.639	0.167	0.000	12.444	IC1-05222	6/9/2025 11:34	10	NF/IZ
Q2268-04MS	2.164	408.509	3.007	10.590	2.636	5.039	26.971	IC1-05222	6/9/2025 11:56	10	NF/IZ
Q2268-05MSD	2.237	408.077	3.089	10.887	2.704	5.438	27.377	IC1-05222	6/9/2025 12:17	10	NF/IZ
Q2268-06	0.155	399.762	0.000	0.597	0.141	0.000	12.264	IC1-05222	6/9/2025 12:39	10	NF/IZ
Q2268-07	0.086	856.524	0.000	0.975	0.269	0.000	20.586	IC1-05222	6/9/2025 13:00	10	NF/IZ
Q2268-08	0.124	267.646	0.129	0.386	1.532	0.000	14.121	IC1-05222	6/9/2025 13:22	10	NF/IZ
CCV	2.086	3.115	3.092	10.341	2.570	5.284	15.240	IC1-05222	6/9/2025 13:43	10	NF/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	6/9/2025 14:05	10	NF/IZ
Q2268-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	6/9/2025 14:26	10	NF/IZ
Q2268-01DLX5	0.038	292.042	0.000	0.475	2.533	0.000	13.259	IC1-05222	6/9/2025 14:48	10	NF/IZ
Q2268-02DLX10	0.000	15.355	0.000	0.000	0.063	0.000	9.160	IC1-05222	6/9/2025 15:09	10	NF/IZ
CCV	2.110	3.099	3.093	10.312	2.576	5.327	15.259	IC1-05222	6/9/2025 15:31	10	NF/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-05222	6/9/2025 15:52	10	NF/IZ

Clear table

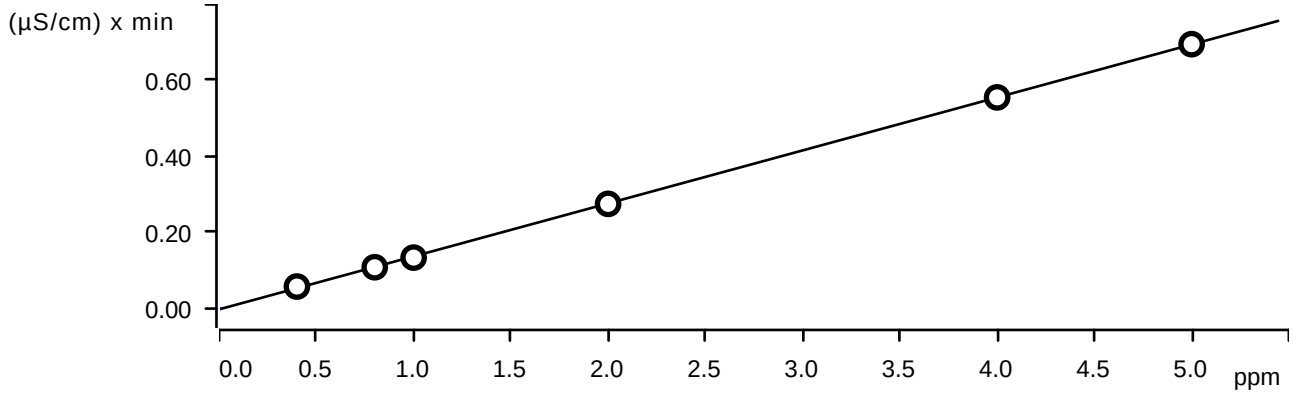
Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-052225	5/22/2025 11:09	10	NF/IZ
STD2	0.4300	0.6400	0.6490	2.1290	0.5430	1.0980	3.2870	IC1-052225	5/22/2025 11:30	10	NF/IZ
STD3	0.7950	1.2070	1.2050	4.0180	1.0040	1.8670	6.0690	IC1-052225	5/22/2025 11:52	10	NF/IZ
STD4	0.9770	1.4800	1.4790	4.9290	1.2290	2.4770	7.4150	IC1-052225	5/22/2025 12:13	10	NF/IZ
STD5	1.9910	2.9680	2.9600	9.9160	2.4670	5.1100	14.6210	IC1-052225	5/22/2025 12:35	10	NF/IZ
STD6	4.0010	5.9670	5.9590	19.8680	4.9660	9.8700	29.8480	IC1-052225	5/22/2025 12:56	10	NF/IZ
STD7	5.0060	7.5390	7.5480	25.1400	6.2900	12.5780	37.2600	IC1-052225	5/22/2025 13:17	10	NF/IZ

ident	True Value F-	True Value CL-	True Value NO2	True Value BR-	True Value NO3	True Value HPO4	True Value SO4
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD2	0.4000	0.6000	0.6000	2.0000	0.5000	1.0000	3.0000
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	37.0000

ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4
STD1							
STD2	7.5000	6.6667	8.1667	6.4500	8.6000	9.8000	9.5667
STD3	-0.6250	0.5833	0.4167	0.4500	0.4000	-6.6500	1.1500
STD4	-2.3000	-1.3333	-1.4000	-1.4200	-1.6800	-0.9200	-1.1333
STD5	-0.4500	-1.0667	-1.3333	-0.8400	-1.3200	2.2000	-2.5267
STD6	0.0250	-0.5500	-0.6833	-0.6600	-0.6800	-1.3000	-0.5067
STD7	0.1200	0.5200	0.6400	0.5600	0.6400	0.6240	0.7027

Fluoride (Anions)



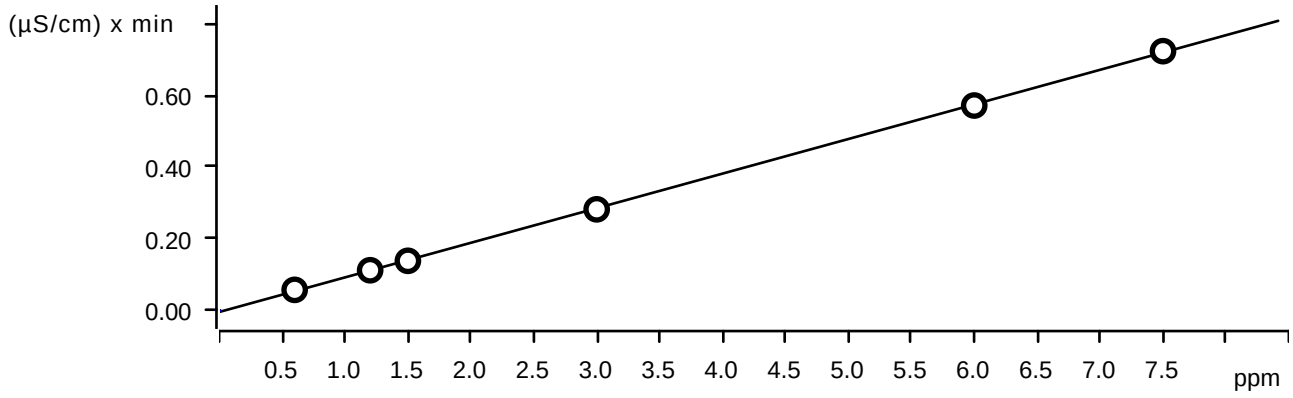
Function: . . . . . *A = - 2.82659E-3 + 0.0139492× Q*

Relative standard deviation . . . . . *0.920519 %*

Correlation coefficient *0.999955*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.057	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.108	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.133	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.275	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.555	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.695	STD7	2025-05-22 13:17:57 UTC-4	used

Chloride (Anions)



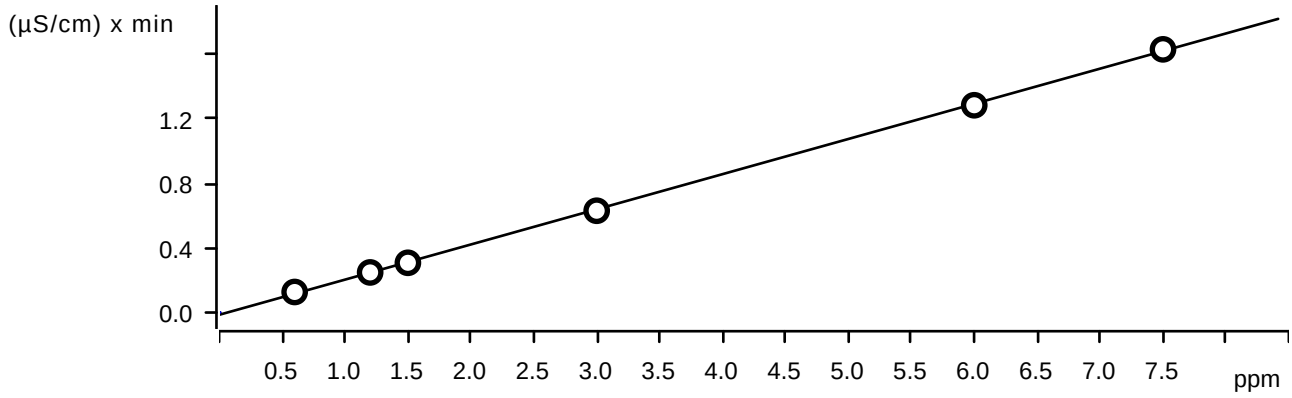
Function: . . . . . *A = - 4.33057E-3 + 9.64673E-3× Q*

Relative standard deviation . . . . . *1.154335 %*

Correlation coefficient *0.999929*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.057	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.112	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.138	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.282	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.571	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.723	STD7	2025-05-22 13:17:57 UTC-4	used

Nitrite (Anions)



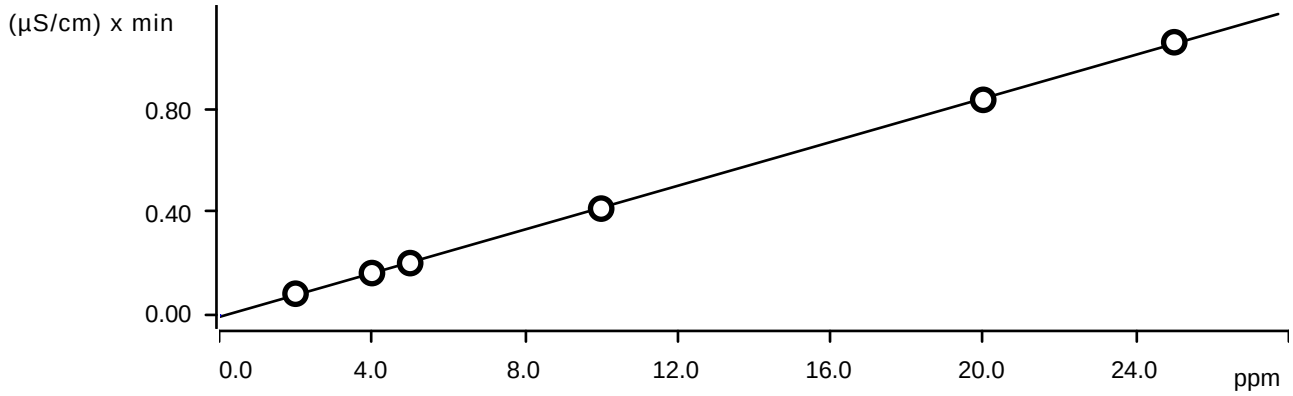
Function: . . . . . *A = - 0.0150155 + 0.0217890× Q*

Relative standard deviation . . . . . *1.428639 %*

Correlation coefficient *0.999893*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.126	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.248	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.307	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.630	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.283	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.630	STD7	2025-05-22 13:17:57 UTC-4	used

Bromide (Anions)



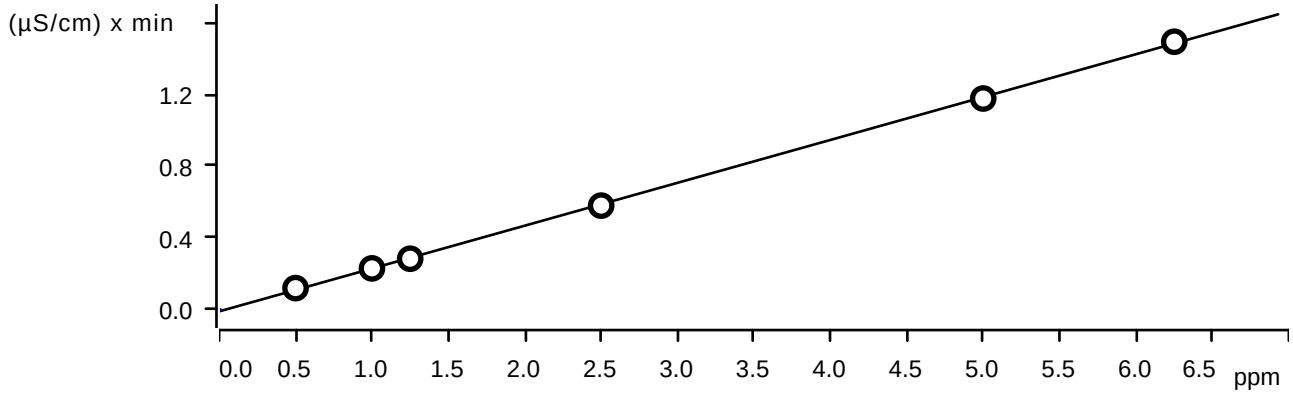
Function: . . . . . *A = - 6.27114E-3 + 4.23162E-3× Q*

Relative standard deviation . . . . . *1.185575 %*

Correlation coefficient *0.999925*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.084	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.164	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.202	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.413	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.834	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.058	STD7	2025-05-22 13:17:57 UTC-4	used

Nitrate (Anions)



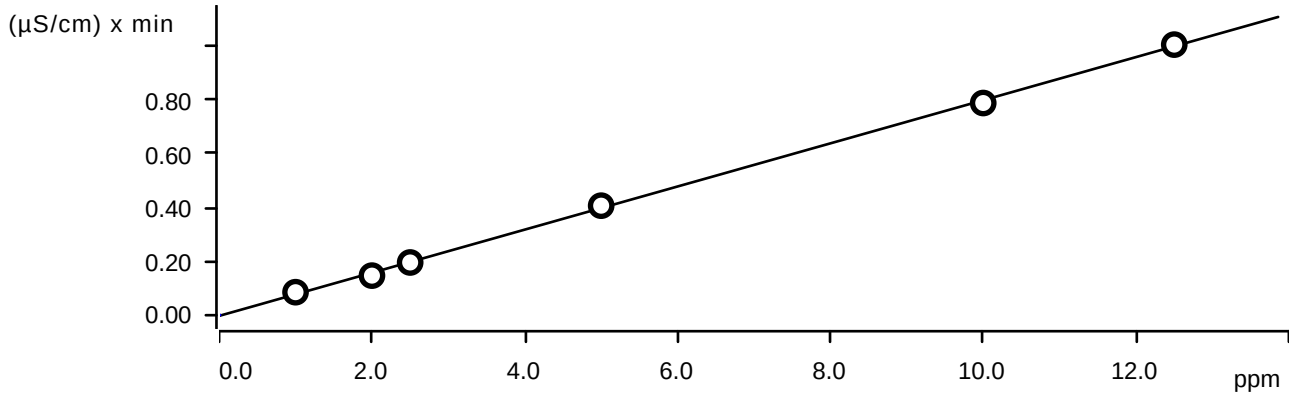
Function: . . . . . *A = - 0.0109593 + 0.0239055× Q*

Relative standard deviation . . . . . *1.451672 %*

Correlation coefficient *0.999889*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.119	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.229	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.283	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.579	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.176	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.493	STD7	2025-05-22 13:17:57 UTC-4	used

Phosphate (Anions)



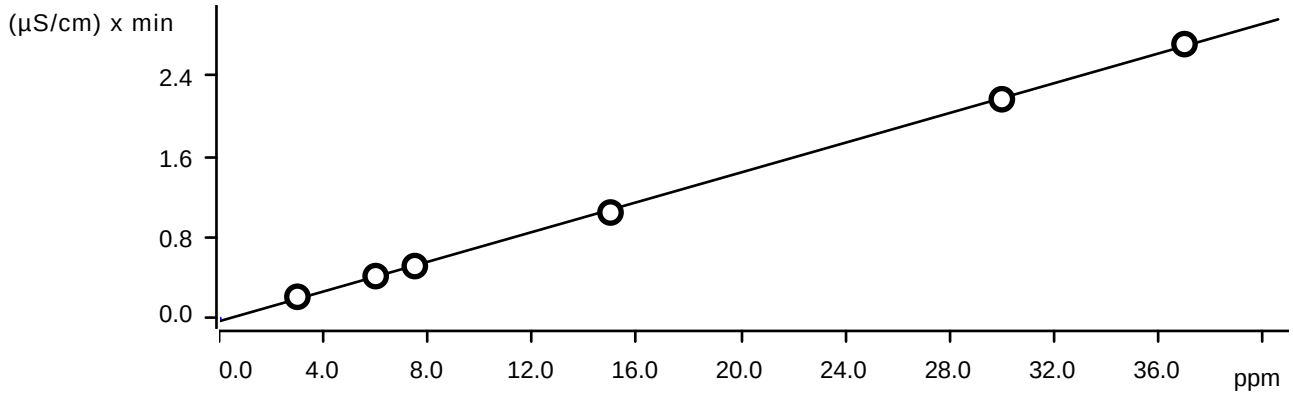
Function: . . . . . *A = - 3.02035E-3 + 8.01761E-3× Q*

Relative standard deviation . . . . . *2.297726 %*

Correlation coefficient *0.999716*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.085	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.147	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.196	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.407	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.788	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.005	STD7	2025-05-22 13:17:57 UTC-4	used

Sulfate (Anions)



Function: . . . . . *A = - 0.0303663 + 7.37295E-3× Q*

Relative standard deviation . . . . . *1.792871 %*

Correlation coefficient *0.999832*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.212	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.417	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.516	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.048	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.170	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.717	STD7	2025-05-22 13:17:57 UTC-4	used

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

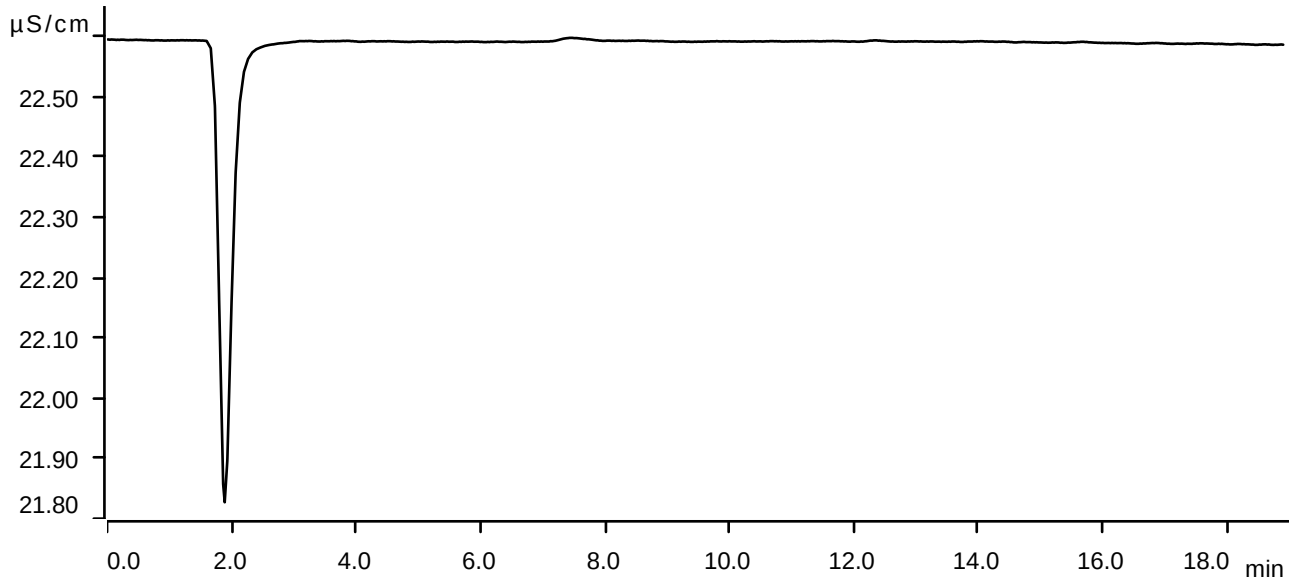
Sample data

Ident	STD1
Sample type	Standard 1
Determination start	2025-05-22 11:09:38 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.82	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



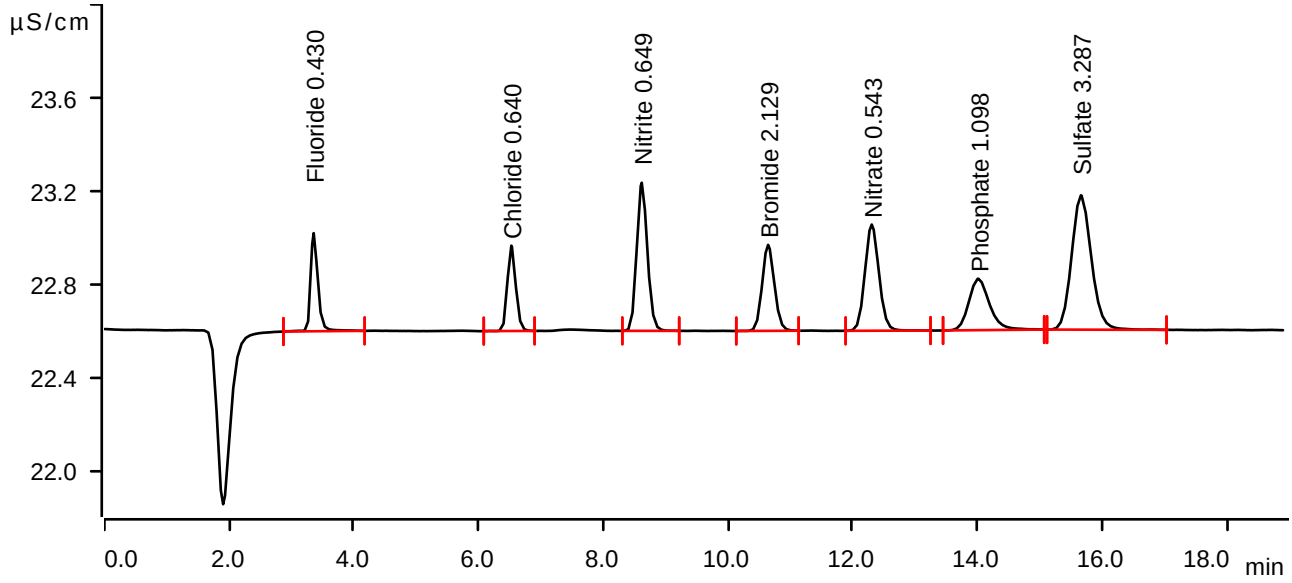
Sample data

Ident	STD2
Sample type	Standard 2
Determination start	2025-05-22 11:30:53 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.357	0.0572	0.421	0.430	Fluoride
2	6.525	0.0574	0.366	0.640	Chloride
3	8.617	0.1264	0.636	0.649	Nitrite
4	10.642	0.0838	0.369	2.129	Bromide
5	12.303	0.1190	0.456	0.543	Nitrate
6	14.013	0.0850	0.221	1.098	Phosphate
7	15.657	0.2120	0.577	3.287	Sulfate

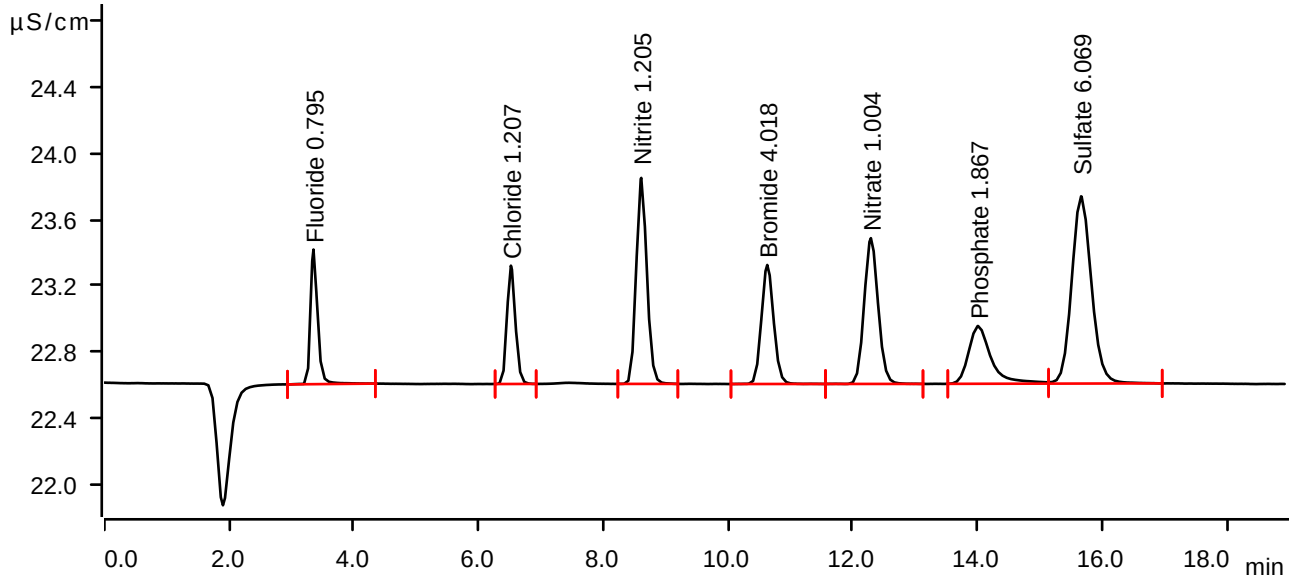
Sample data

Ident	STD3
Sample type	Standard 3
Determination start	2025-05-22 11:52:16 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.71	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.1081	0.814	0.795	Fluoride
2	6.518	0.1121	0.716	1.207	Chloride
3	8.608	0.2475	1.247	1.205	Nitrite
4	10.628	0.1637	0.720	4.018	Bromide
5	12.290	0.2290	0.882	1.004	Nitrate
6	14.008	0.1467	0.350	1.867	Phosphate
7	15.660	0.4171	1.133	6.069	Sulfate

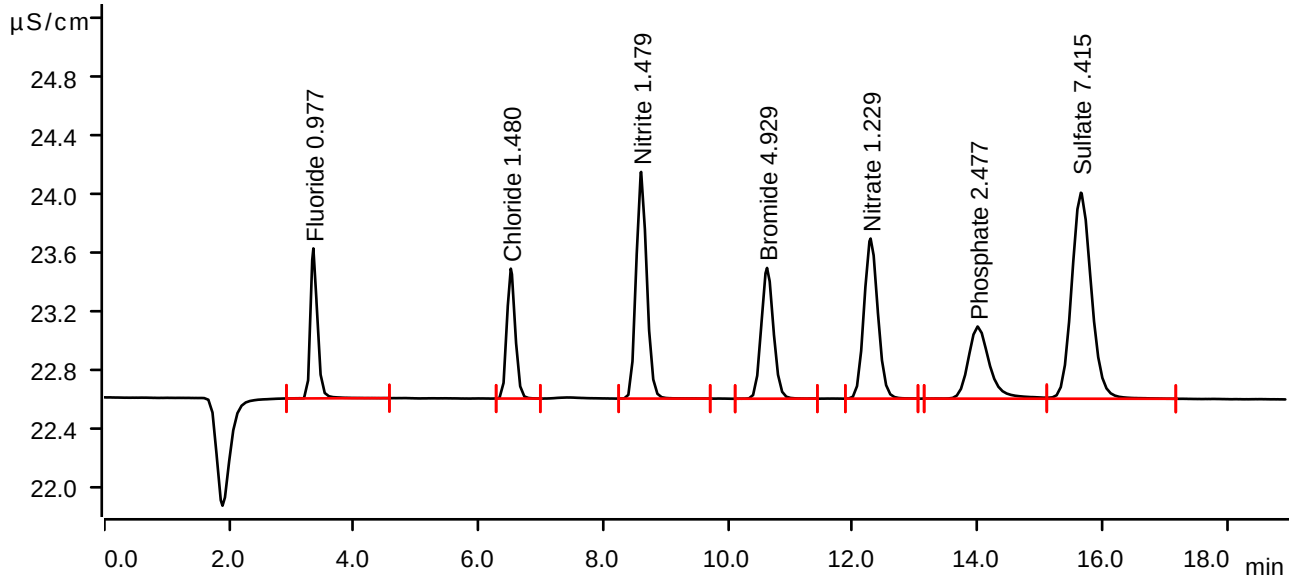
Sample data

Ident	STD4
Sample type	Standard 4
Determination start	2025-05-22 12:13:41 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.71	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.352	0.1334	1.024	0.977	Fluoride
2	6.517	0.1384	0.888	1.480	Chloride
3	8.607	0.3073	1.549	1.479	Nitrite
4	10.625	0.2023	0.894	4.929	Bromide
5	12.285	0.2828	1.094	1.229	Nitrate
6	14.003	0.1955	0.493	2.477	Phosphate
7	15.657	0.5164	1.408	7.415	Sulfate

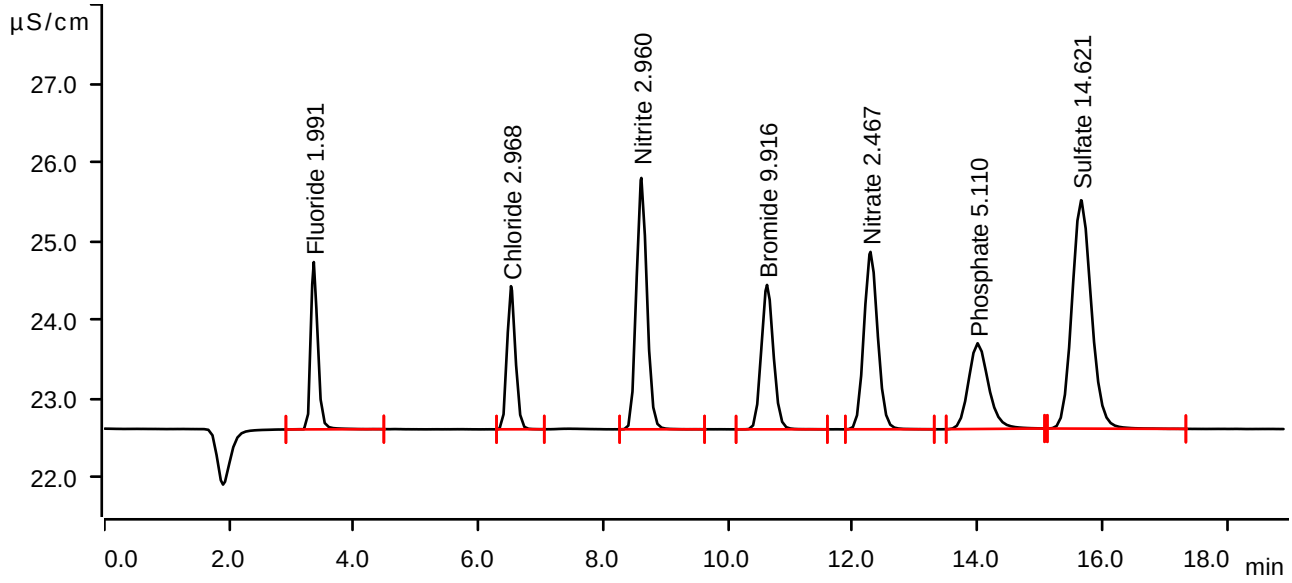
Sample data

Ident	STD5
Sample type	Standard 5
Determination start	2025-05-22 12:35:06 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.66	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.358	0.2749	2.123	1.991	Fluoride
2	6.520	0.2820	1.816	2.968	Chloride
3	8.610	0.6298	3.190	2.960	Nitrite
4	10.625	0.4133	1.833	9.916	Bromide
5	12.283	0.5789	2.251	2.467	Nitrate
6	14.002	0.4067	1.087	5.110	Phosphate
7	15.660	1.0476	2.898	14.621	Sulfate

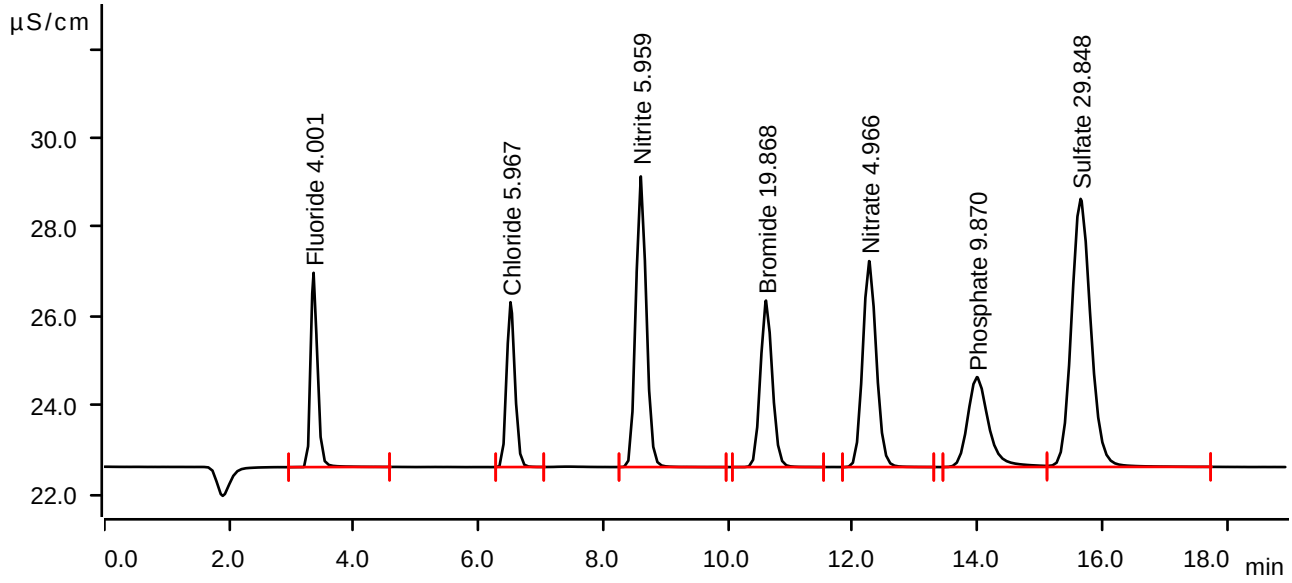
Sample data

Ident	STD6
Sample type	Standard 6
Determination start	2025-05-22 12:56:31 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.66	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.355	0.5553	4.361	4.001	Fluoride
2	6.512	0.5713	3.701	5.967	Chloride
3	8.602	1.2834	6.525	5.959	Nitrite
4	10.608	0.8345	3.739	19.868	Bromide
5	12.262	1.1762	4.624	4.966	Nitrate
6	13.990	0.7883	2.019	9.870	Phosphate
7	15.652	2.1703	6.019	29.848	Sulfate

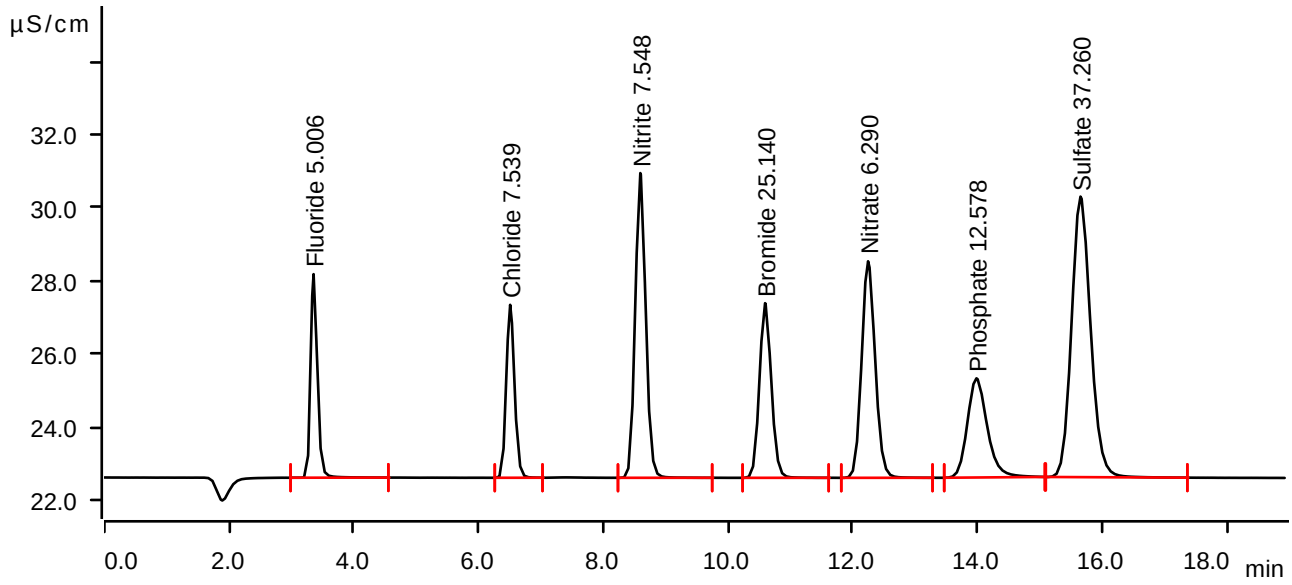
Sample data

Ident	STD7
Sample type	Standard 7
Determination start	2025-05-22 13:17:57 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.66	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.355	0.6954	5.562	5.006	Fluoride
2	6.507	0.7229	4.726	7.539	Chloride
3	8.593	1.6297	8.328	7.548	Nitrite
4	10.593	1.0576	4.774	25.140	Bromide
5	12.245	1.4927	5.918	6.290	Nitrate
6	13.982	1.0054	2.711	12.578	Phosphate
7	15.650	2.7168	7.668	37.260	Sulfate

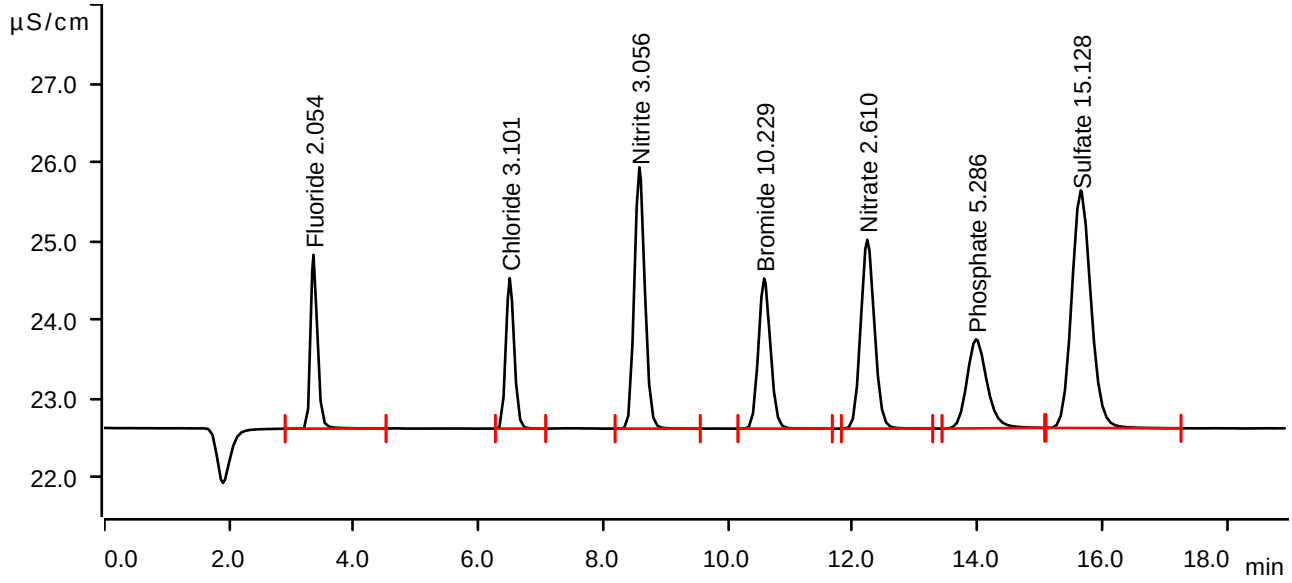
Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2025-05-22 13:39:25 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.60	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.2837	2.205	2.054	Fluoride
2	6.500	0.2948	1.910	3.101	Chloride
3	8.578	0.6509	3.316	3.056	Nitrite
4	10.578	0.4266	1.904	10.229	Bromide
5	12.232	0.6129	2.398	2.610	Nitrate
6	13.977	0.4208	1.130	5.286	Phosphate
7	15.655	1.0850	3.016	15.128	Sulfate

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

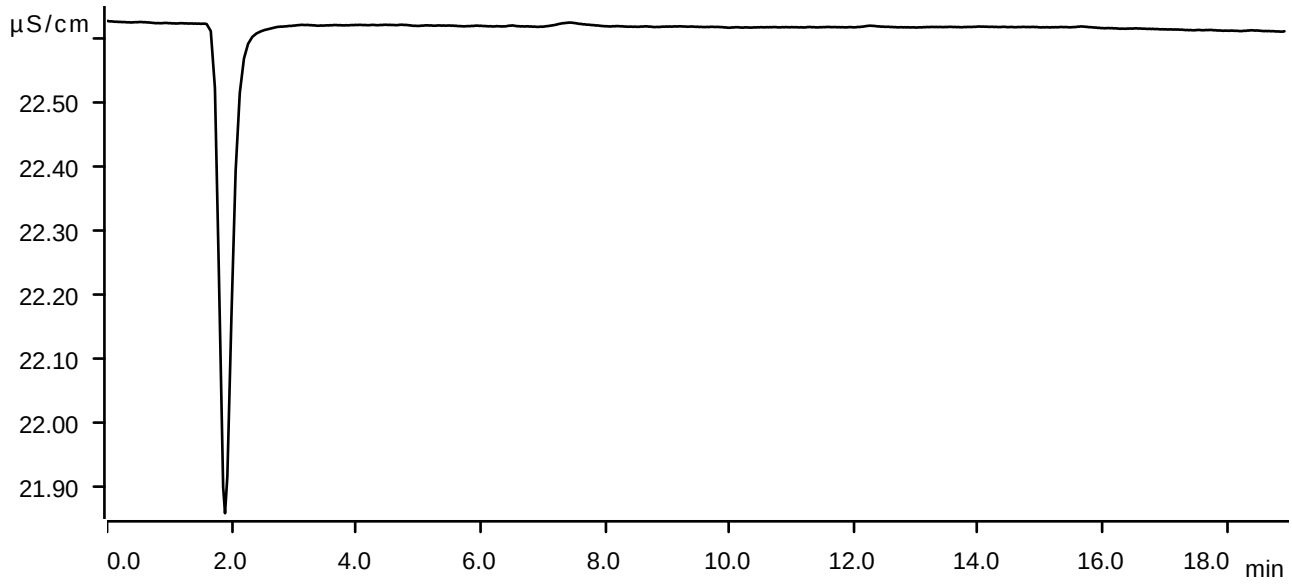
Sample data

Ident	ICB
Sample type	Sample
Determination start	2025-05-22 14:22:21 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.66	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



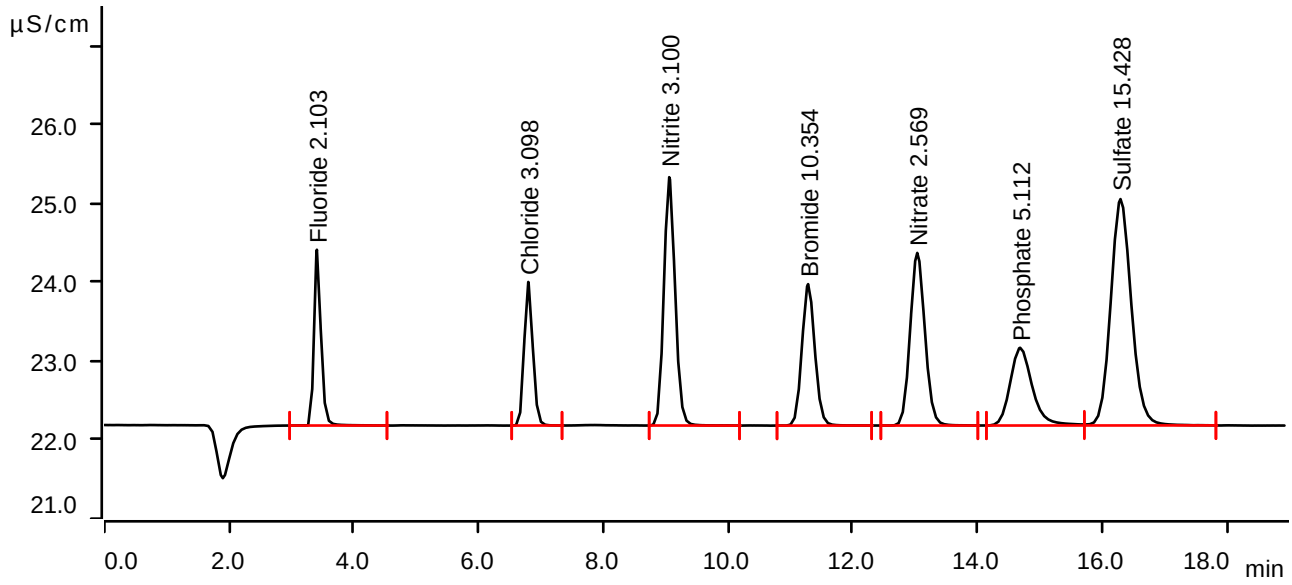
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-06-09 09:25:13 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	13.06	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.408	0.2905	2.230	2.103	Fluoride
2	6.797	0.2945	1.822	3.098	Chloride
3	9.057	0.6605	3.151	3.100	Nitrite
4	11.283	0.4319	1.795	10.354	Bromide
5	13.033	0.6032	2.191	2.569	Nitrate
6	14.683	0.4068	0.987	5.112	Phosphate
7	16.292	1.1071	2.873	15.428	Sulfate

Metrohm

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

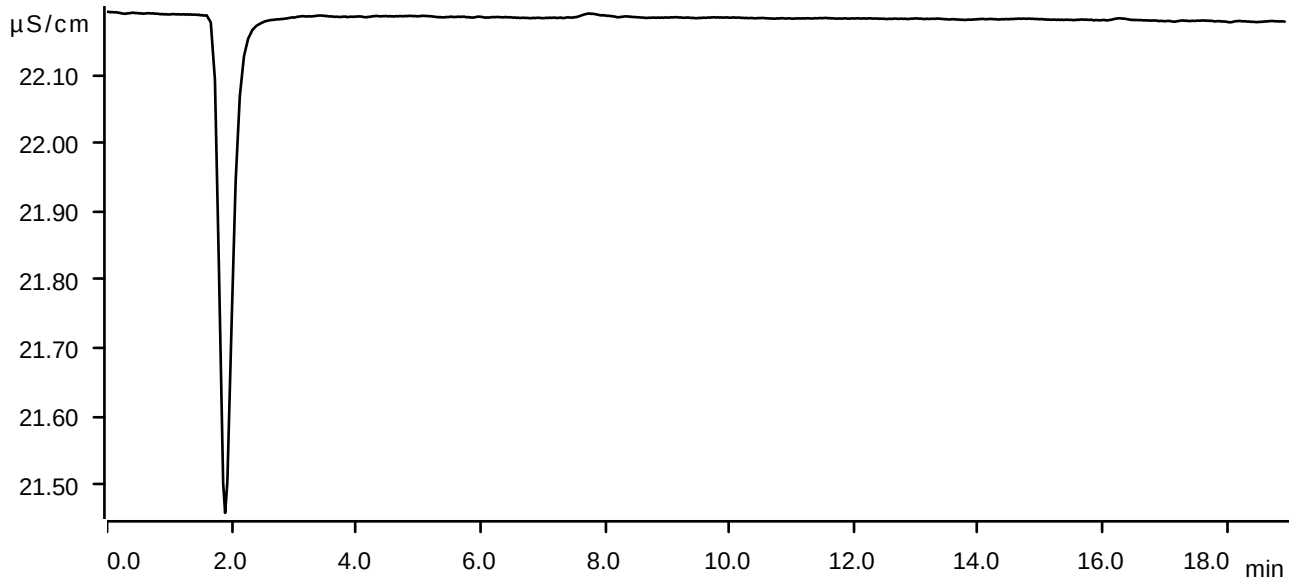
Sample data

Ident	CCB
Sample type	Sample
Determination start	2025-06-09 09:46:43 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.89	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

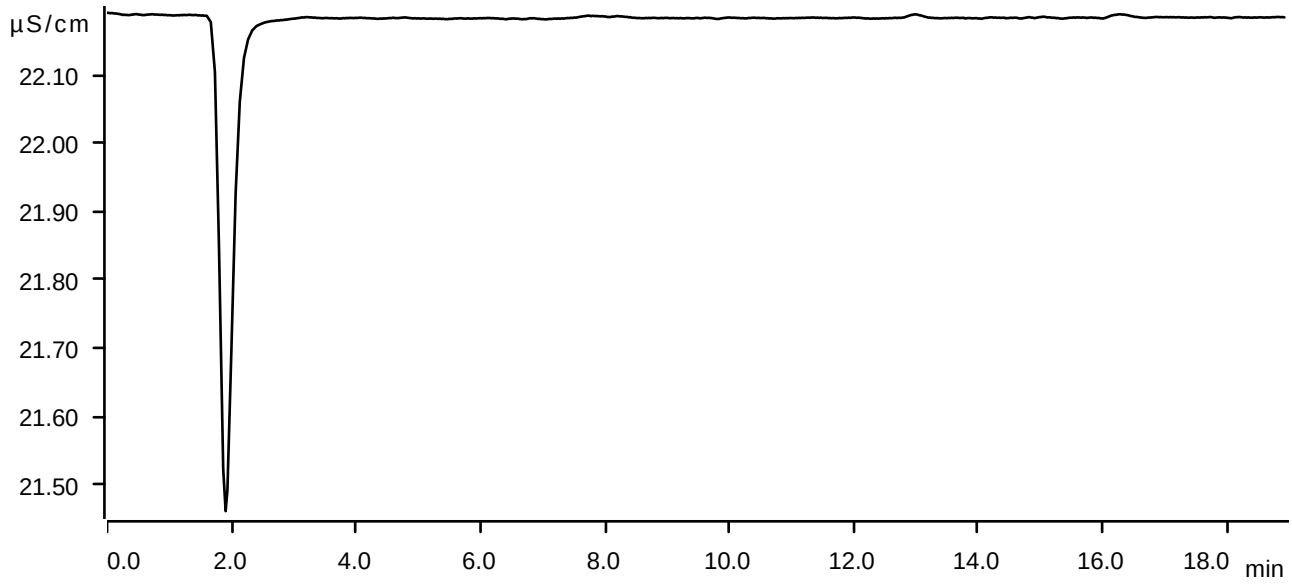
Sample data

Ident	LB136070BLW	
Sample type	Sample	
Determination start	2025-06-09 10:08:14 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.95	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



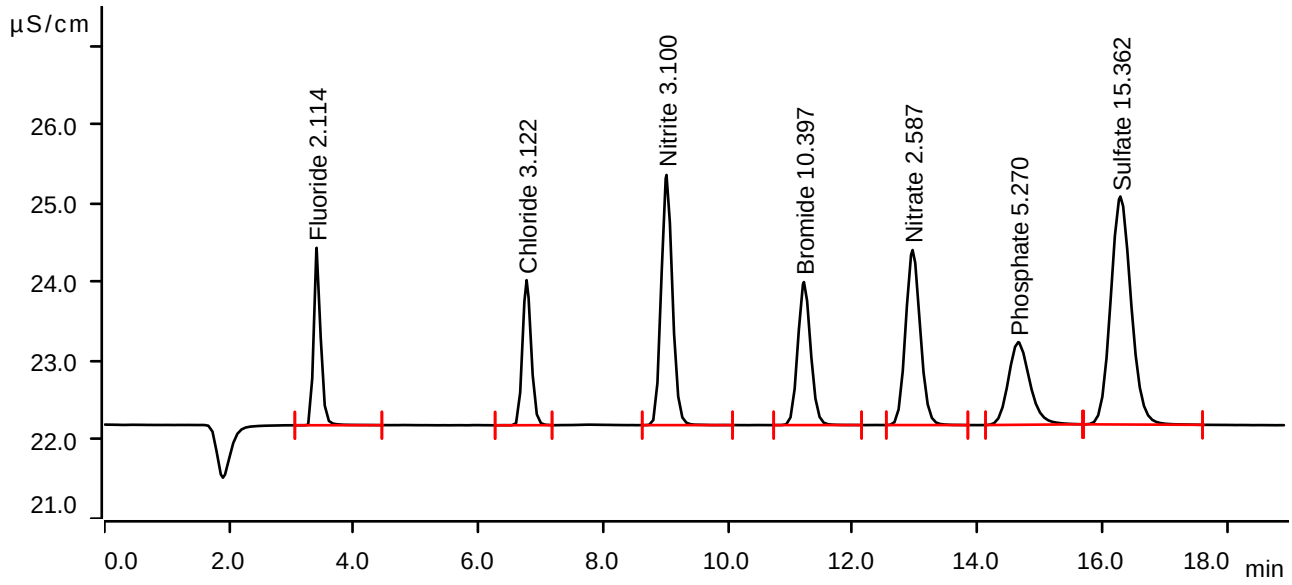
Sample data

Ident	LB136070BSW
Sample type	Check standard 1
Determination start	2025-06-09 10:29:45 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.89	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.403	0.2921	2.251	2.114	Fluoride
2	6.770	0.2968	1.841	3.122	Chloride
3	9.013	0.6604	3.175	3.100	Nitrite
4	11.217	0.4337	1.815	10.397	Bromide
5	12.958	0.6075	2.221	2.587	Nitrate
6	14.653	0.4195	1.049	5.270	Phosphate
7	16.290	1.1023	2.893	15.362	Sulfate

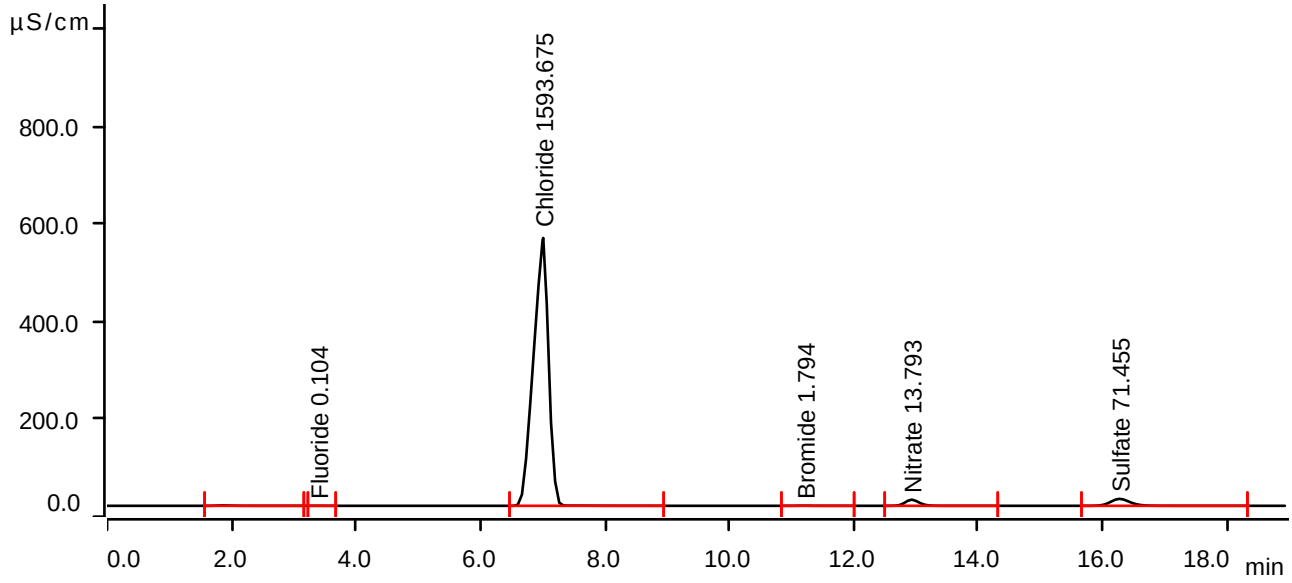
Sample data

Ident	Q2268-01
Sample type	Sample
Determination start	2025-06-09 10:51:18 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.89	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.858	0.2293	0.837	invalid	
2	3.392	0.0117	0.087	0.104	Fluoride
3	7.010	153.7331	549.083	1593.675	Chloride
4	11.215	0.0696	0.290	1.794	Bromide
5	12.928	3.2863	12.585	13.793	Nitrate
6	16.270	5.2380	14.278	71.455	Sulfate

Sample data

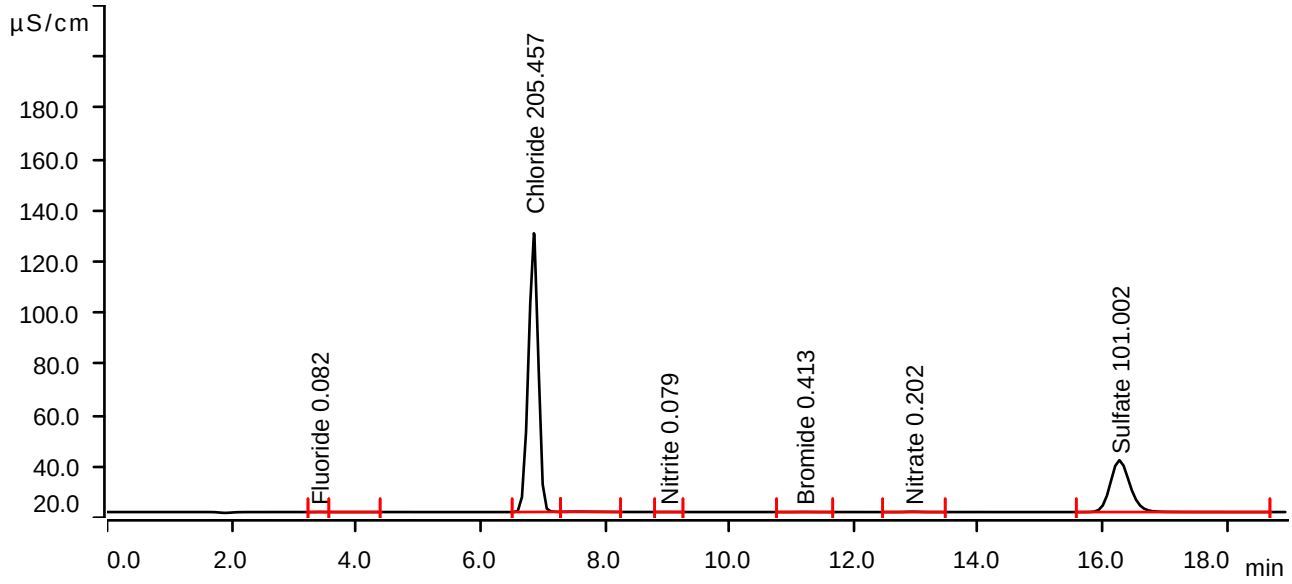
Ident	Q2268-02	
Sample type	Sample	
Determination start	2025-06-09 11:12:51 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.84	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:6/11/2025 1:28
PM
Inst Id :IC-1
LB :LB136070

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.402	0.0085	0.062	0.082	Fluoride
2	3.623	0.0030	0.012	invalid	
3	6.860	19.8156	108.820	205.457	Chloride
4	7.560	0.0429	0.097	invalid	
5	9.015	0.0022	0.012	0.079	Nitrite
6	11.203	0.0112	0.046	0.413	Bromide
7	12.953	0.0374	0.137	0.202	Nitrate
8	16.267	7.4165	20.254	101.002	Sulfate

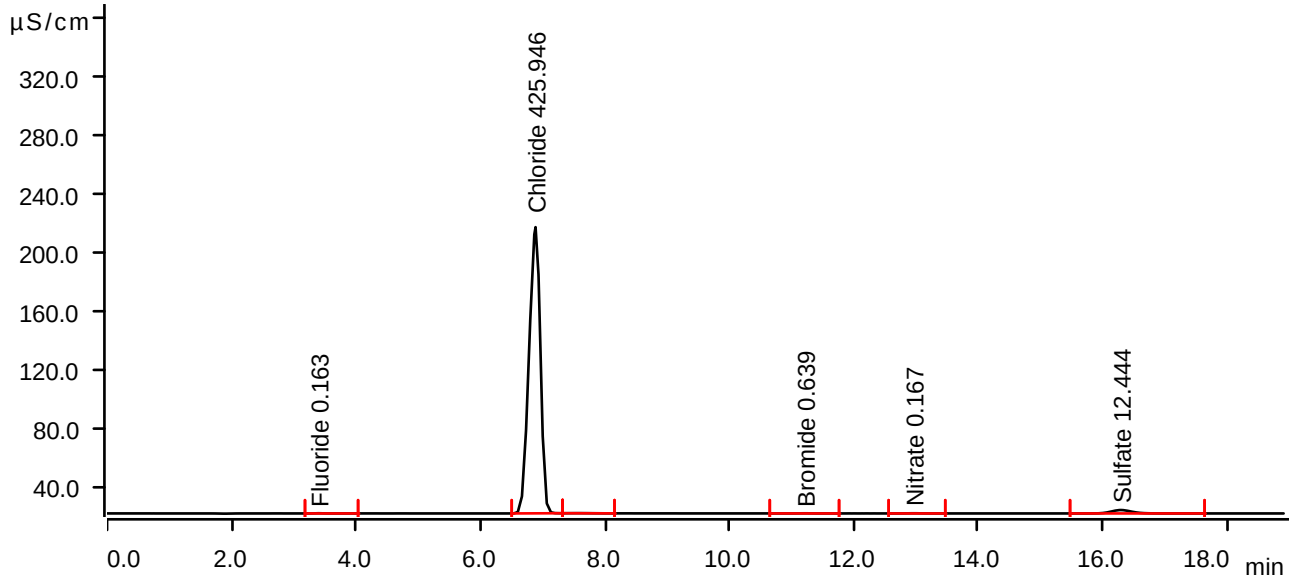
Sample data

Ident	Q2268-03
Sample type	Sample
Determination start	2025-06-09 11:34:25 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.89	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.397	0.0199	0.132	0.163	Fluoride
2	6.887	41.0855	195.556	425.946	Chloride
3	7.535	0.0332	0.082	invalid	
4	11.213	0.0208	0.084	0.639	Bromide
5	12.957	0.0291	0.104	0.167	Nitrate
6	16.292	0.8871	2.327	12.444	Sulfate

Sample data

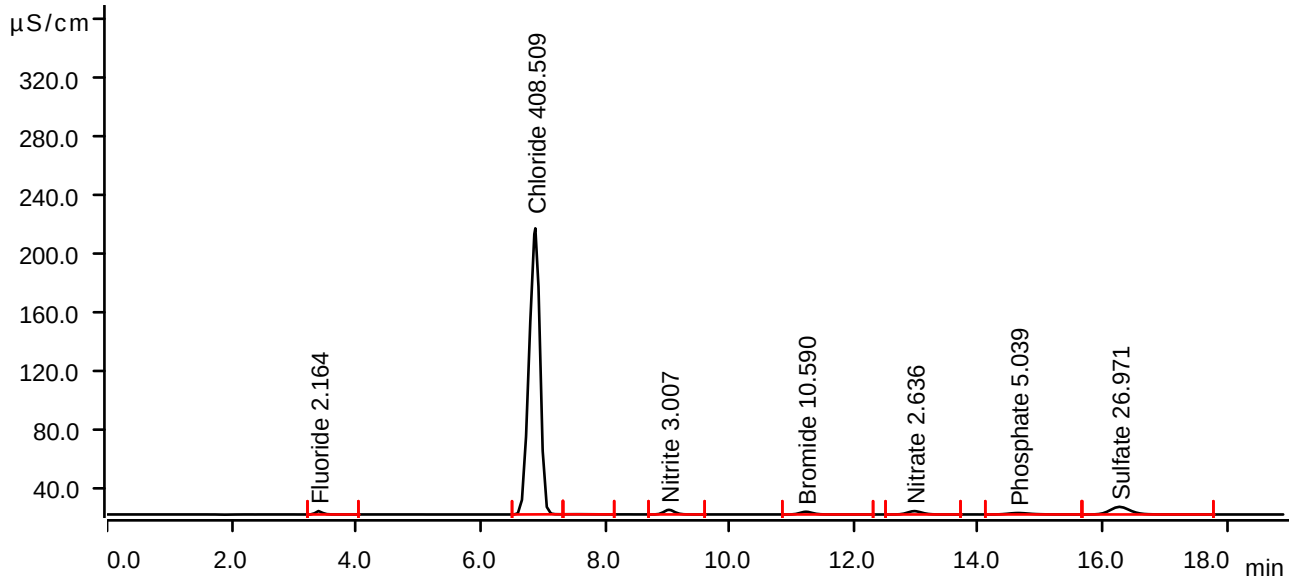
Ident	Q2268-04MS	
Sample type	Sample	
Determination start	2025-06-09 11:56:01 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.95	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.397	0.2991	2.298	2.164	Fluoride
2	6.883	39.4035	195.464	408.509	Chloride
3	7.558	0.0315	0.079	invalid	
4	9.030	0.6402	3.148	3.007	Nitrite
5	11.232	0.4419	1.866	10.590	Bromide
6	12.973	0.6192	2.280	2.636	Nitrate
7	14.640	0.4010	0.990	5.039	Phosphate
8	16.270	1.9582	5.213	26.971	Sulfate

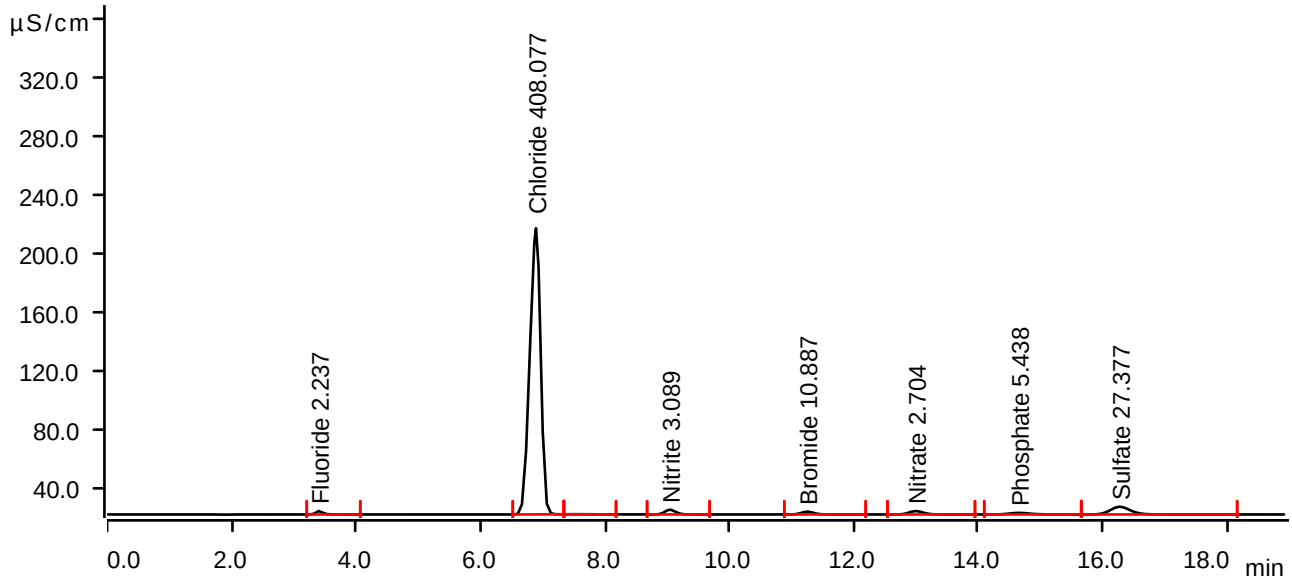
Sample data

Ident	Q2268-05MSD	
Sample type	Sample	
Determination start	2025-06-09 12:17:37 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	13.06	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.403	0.3092	2.348	2.237	Fluoride
2	6.893	39.3617	195.485	408.077	Chloride
3	7.585	0.0319	0.077	invalid	
4	9.047	0.6581	3.222	3.089	Nitrite
5	11.252	0.4544	1.909	10.887	Bromide
6	12.997	0.6355	2.333	2.704	Nitrate
7	14.650	0.4330	1.073	5.438	Phosphate
8	16.273	1.9881	5.278	27.377	Sulfate

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

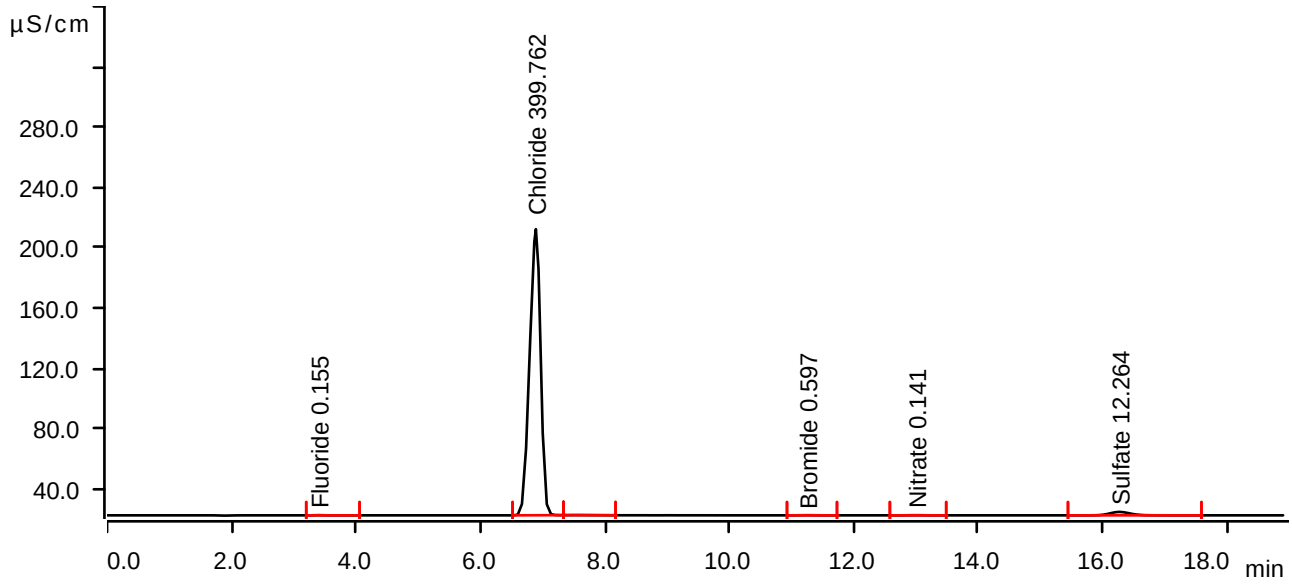
Sample data

Ident	Q2268-06
Sample type	Sample
Determination start	2025-06-09 12:39:12 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	13.06	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.397	0.0188	0.126	0.155	Fluoride
2	6.892	38.5596	189.903	399.762	Chloride
3	7.557	0.0320	0.078	invalid	
4	11.248	0.0190	0.079	0.597	Bromide
5	13.000	0.0227	0.083	0.141	Nitrate
6	16.268	0.8738	2.290	12.264	Sulfate

Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

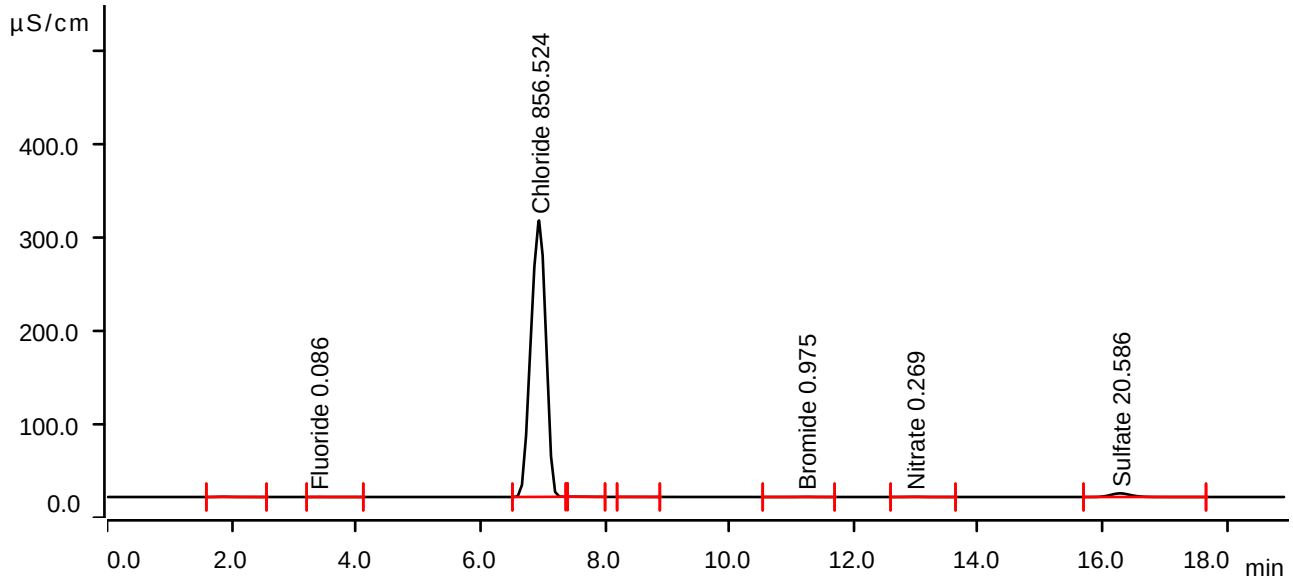
Sample data

Ident	Q2268-07	
Sample type	Sample	
Determination start	2025-06-09 13:00:46 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.95	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.865	0.0761	0.275	invalid	
2	3.395	0.0092	0.056	0.086	Fluoride
3	6.943	82.6222	296.798	856.524	Chloride
4	7.497	0.0178	0.054	invalid	
5	8.402	0.0067	0.021	invalid	
6	11.232	0.0350	0.144	0.975	Bromide
7	12.973	0.0533	0.195	0.269	Nitrate
8	16.278	1.4875	3.944	20.586	Sulfate

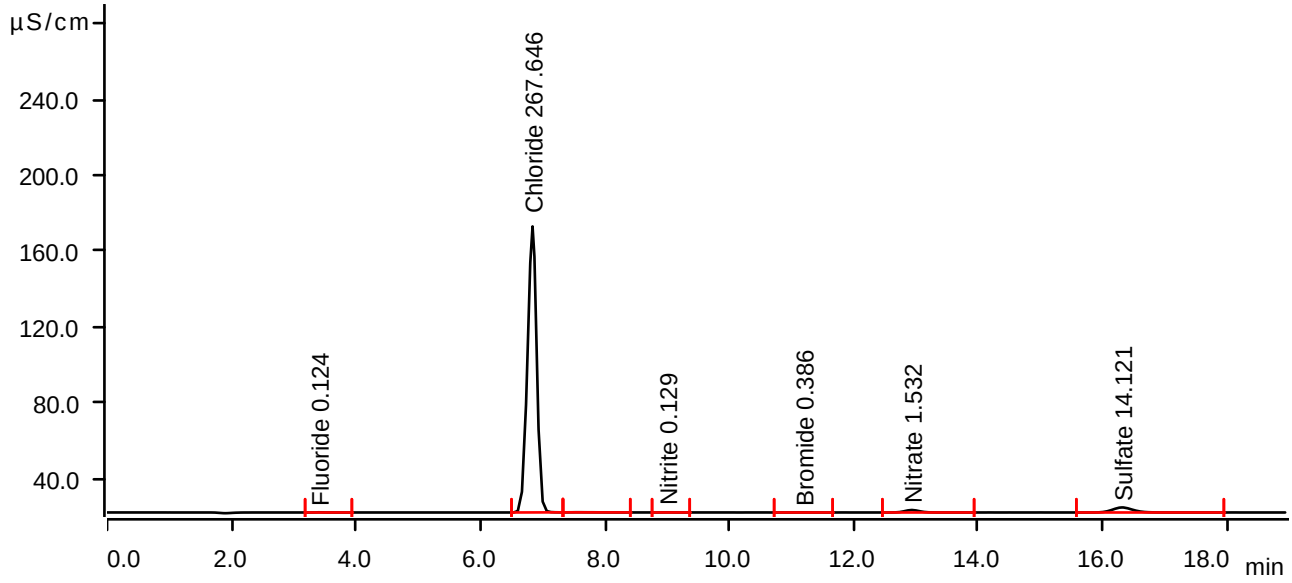
Sample data

Ident	Q2268-08
Sample type	Sample
Determination start	2025-06-09 13:22:20 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.84	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.405	0.0145	0.102	0.124	Fluoride
2	6.838	25.8147	150.755	267.646	Chloride
3	7.580	0.0270	0.063	invalid	
4	9.002	0.0131	0.064	0.129	Nitrite
5	11.190	0.0101	0.039	0.386	Bromide
6	12.932	0.3553	1.301	1.532	Nitrate
7	16.312	1.0107	2.656	14.121	Sulfate

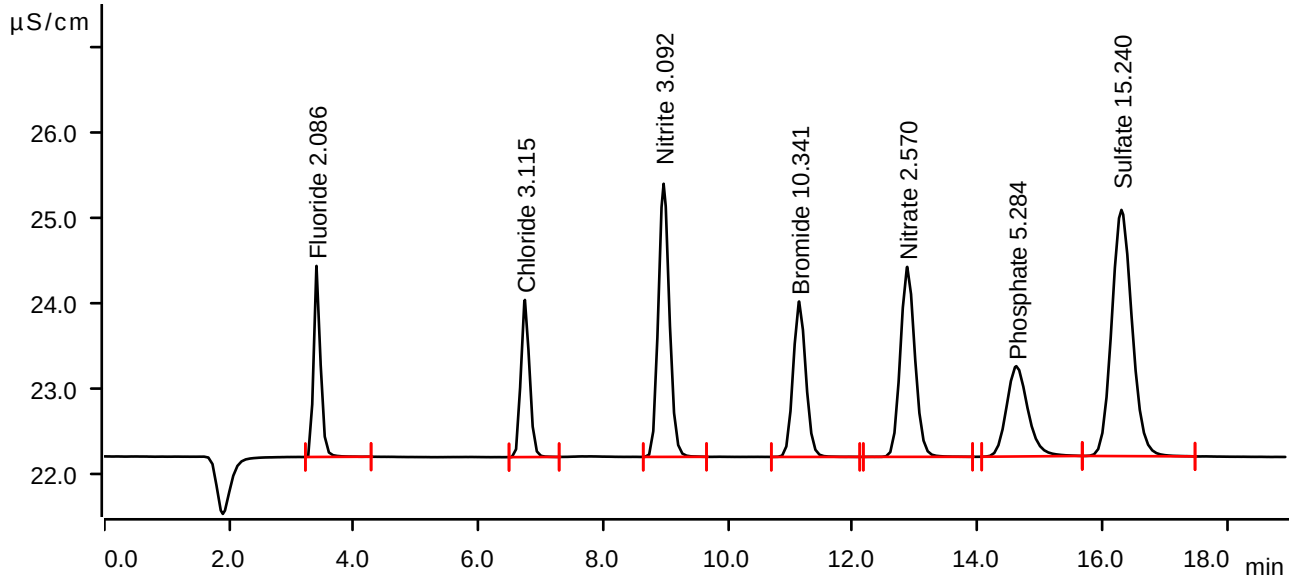
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-06-09 13:43:55 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.73	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.402	0.2882	2.237	2.086	Fluoride
2	6.743	0.2961	1.841	3.115	Chloride
3	8.967	0.6588	3.199	3.092	Nitrite
4	11.140	0.4313	1.821	10.341	Bromide
5	12.873	0.6034	2.225	2.570	Nitrate
6	14.622	0.4207	1.058	5.284	Phosphate
7	16.307	1.0933	2.884	15.240	Sulfate

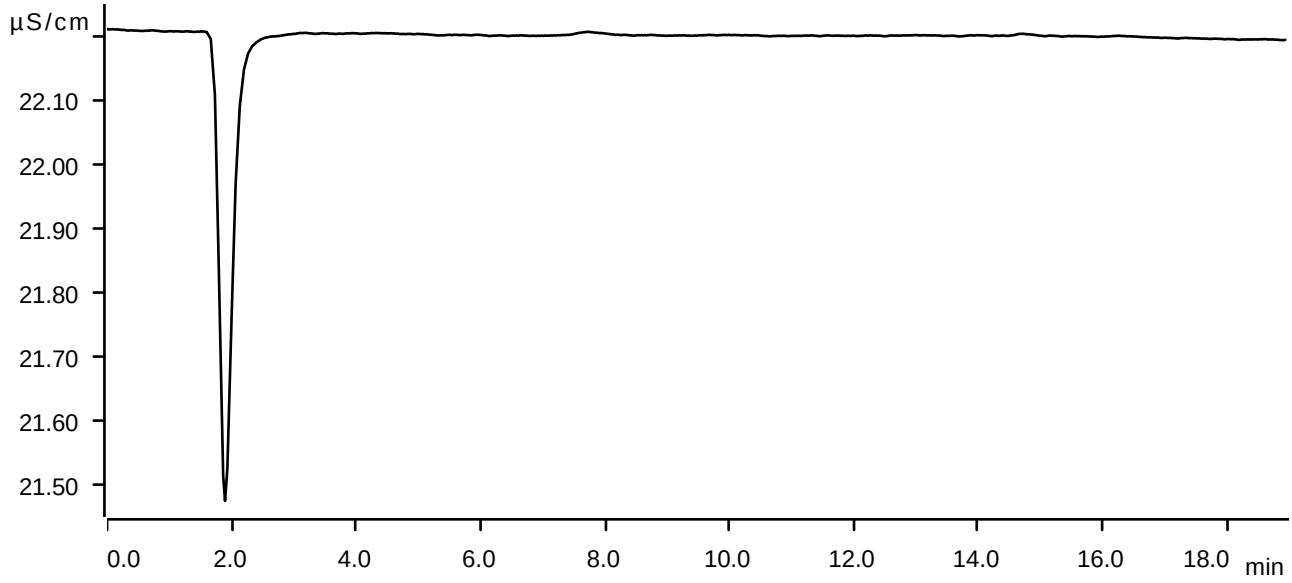
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-06-09 14:05:22 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.73	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:6/11/2025 1:28 PM
Inst Id :IC-1
LB :LB136070

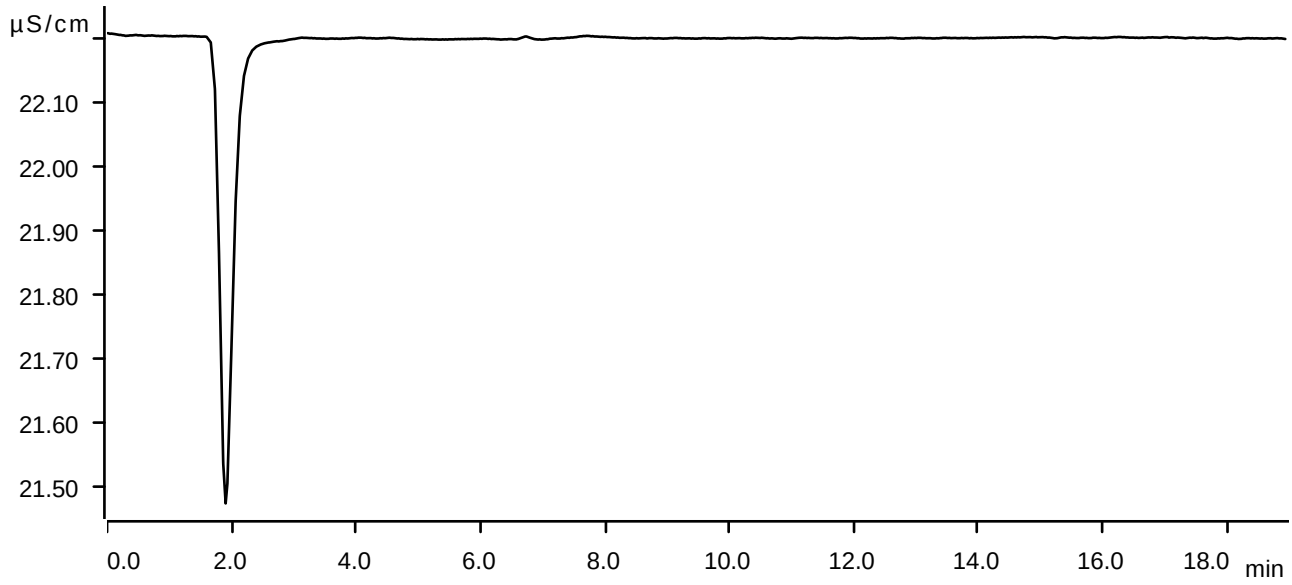
Sample data

Ident	Q2268-10	
Sample type	Sample	
Determination start	2025-06-09 14:26:53 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



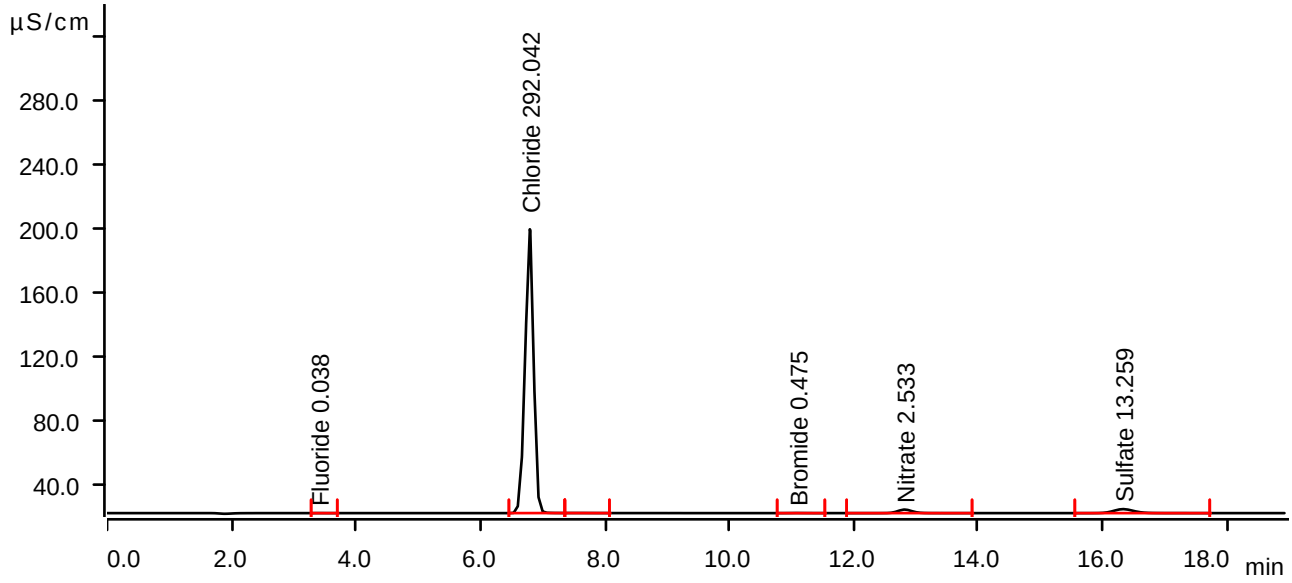
Sample data

Ident	Q2268-01DLX5
Sample type	Sample
Determination start	2025-06-09 14:48:25 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.403	0.0025	0.018	0.038	Fluoride
2	6.795	28.1682	177.310	292.042	Chloride
3	7.555	0.0091	0.024	invalid	
4	11.095	0.0138	0.057	0.475	Bromide
5	12.817	0.5947	2.211	2.533	Nitrate
6	16.328	0.9472	2.500	13.259	Sulfate

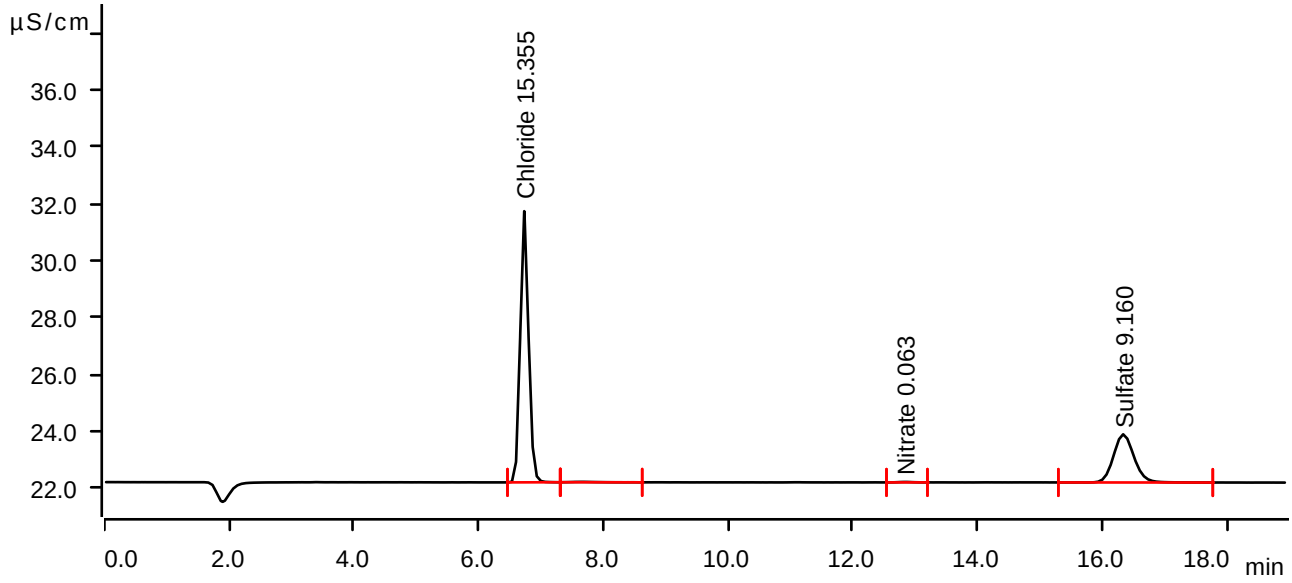
Sample data

Ident	Q2268-02DLX10
Sample type	Sample
Determination start	2025-06-09 15:09:56 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.732	1.4769	9.529	15.355	Chloride
2	7.640	0.0067	0.014	invalid	
3	12.830	0.0041	0.016	0.063	Nitrate
4	16.335	0.6450	1.692	9.160	Sulfate

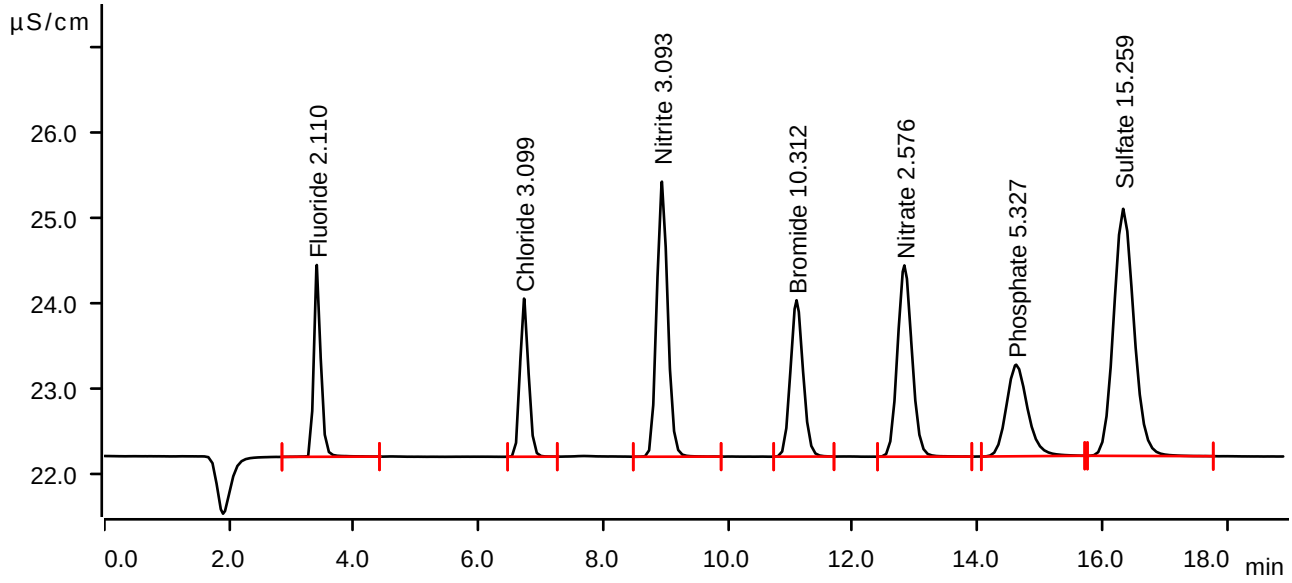
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-06-09 15:31:26 UTC-4
Method	IC1-052225
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.61	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.407	0.2916	2.246	2.110	Fluoride
2	6.728	0.2946	1.852	3.099	Chloride
3	8.940	0.6590	3.222	3.093	Nitrite
4	11.098	0.4301	1.832	10.312	Bromide
5	12.827	0.6048	2.241	2.576	Nitrate
6	14.620	0.4241	1.073	5.327	Phosphate
7	16.337	1.0947	2.894	15.259	Sulfate

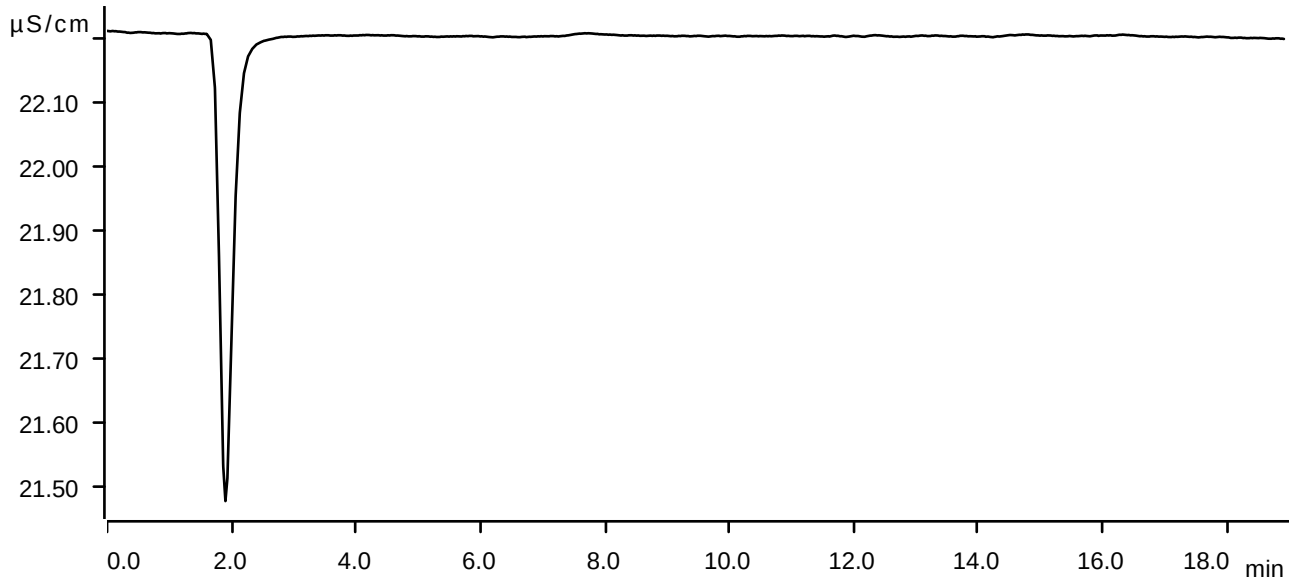
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-06-09 15:52:56 UTC-4	
Method	IC1-052225	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



TOTAL Dissolved Solids - SM2540C

Run Number: LB136082

SUPERVISOR: Iwona **ANALYST:** jignesh

Date: 06/10/2025

BalanceID: WC SC-6

Filter ID: 17416528

EMPTY DISH TEMP IN:	104 °C	06/09/2025	11:00	**EMPTY DISH TEMP OUT:**	103 °C	06/09/2025	12:00	**OvenID:** WC OVEN-1	**Thermo ID:** WET IVEN-1
TEMP1 IN:	104 °C	06/09/2025	12:30	**TEMP1 OUT:**	104 °C	06/09/2025	13:30	**OvenID1:** WC OVEN-1	**Thermo ID1:** WET OVEN#1
TEMP2 IN:	104 °C	06/09/2025	15:30	**TEMP2 OUT:**	103 °C	06/10/2025	07:00	**OvenID2:** WC OVEN-2	**Thermo ID2:** WET OVEN#2
TEMP3 IN:	180 °C	06/10/2025	07:05	**TEMP3 OUT:**	180 °C	06/10/2025	09:40	**OvenID3:** WC OVEN-2	**Thermo ID3:** WET OVEN#2

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	Weight (g)	Result mg/L
1	LB136082BL	LB136082BL	896.3741	896.3741	100	896.3741	896.3741	896.3741	0.0000	0
2	LB136082BS	LB136082BS	102.5361	102.5361	100	102.5456	102.5456	102.5456	0.0095	95
3	Q2268-01	MW-4-20250605	110.2385	110.2385	100	110.4527	110.4527	110.4527	0.2142	2142
4	Q2268-02	MW-5-20250605	106.1514	106.1514	100	106.2121	106.2121	106.2121	0.0607	607
5	Q2268-03	MW-2-20250605	152.1897	152.1897	100	152.2692	152.2692	152.2692	0.0795	795
6	Q2268-03DUP	MW-2-20250605DUP	156.5894	156.5894	100	156.6699	156.6699	156.6699	0.0805	805
7	Q2268-06	MW-2-20250605-A	143.5760	143.5760	100	143.6576	143.6576	143.6576	0.0816	816
8	Q2268-07	MW-6-20250605	142.7984	142.7984	100	142.9421	142.9421	142.9421	0.1437	1437
9	Q2268-08	MW-3-20250605	152.7816	152.7816	100	152.8354	152.8354	152.8354	0.0538	538
10	Q2268-10	FB-20250605	85.6963	85.6963	100	85.6963	85.6963	85.6963	0.0000	0

A = Sample Volume (ml)
B = Empty Dish Weight (g)
C = 2nd Empty Dish + Sample weight after 1.5 hr drying @180(±2)°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} * 1000 * 1000$

WORKLIST(Hardcopy Internal Chain)

LB136060 LB136082

WorkList Name : tds q2268 **WorkList ID :** 190044 **Department :** Wet-Chemistry **Date :** 06-09-2025 10:50:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2268-01 C	MW-4-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
Q2268-02 D	MW-5-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
Q2268-03 D	MW-2-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
~~Q2268-04~~	~~Q2268-03MS~~	~~Water~~	~~TDS~~	~~Cool 4 deg C~~	~~PARS02~~	~~D41~~	~~06/05/2025~~	~~SM2540 C~~
~~Q2268-05~~	~~Q2268-03MSD~~	~~Water~~	~~TDS~~	~~Cool 4 deg C~~	~~PARS02~~	~~D41~~	~~06/05/2025~~	~~SM2540 C~~
Q2268-06 D	MW-2-20250605-A	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
Q2268-07 C	MW-6-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
Q2268-08 D	MW-3-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C
Q2268-10 D	FB-20250605	Water	TDS	Cool 4 deg C	PARS02	D41	06/05/2025	SM2540 C

Date/Time 06/09/25 11:10

Raw Sample Received by: WC

Raw Sample Relinquished by: L.C (Sun)

Date/Time 06/09/25 16:00

Raw Sample Received by: L.C

Raw Sample Relinquished by: WC

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136070

Review By	rubina	Review On	6/11/2025 1:09:59 PM
Supervise By	Iwona	Supervise On	6/11/2025 1:28:23 PM
SubDirectory	LB136070	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192
ICV Standard	WP113193
CCV Standard	WP113430
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113431
Chk Standard	WP113194,WP113195

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	05/22/25 11:09	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	05/22/25 11:30	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	05/22/25 11:52	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	05/22/25 12:13		NF/IZ	OK
5	STD5	STD5	CAL5	05/22/25 12:35		NF/IZ	OK
6	STD6	STD6	CAL6	05/22/25 12:56		NF/IZ	OK
7	STD7	STD7	CAL7	05/22/25 13:17		NF/IZ	OK
8	ICV1	ICV1	ICV	05/22/25 13:39		NF/IZ	OK
9	ICB1	ICB1	ICB	05/22/25 14:22		NF/IZ	OK
10	CCV1	CCV1	CCV	06/09/25 09:25		NF/IZ	OK
11	CCB1	CCB1	CCB	06/09/25 09:46		NF/IZ	OK
12	LB136070BLW	LB136070BLW	MB	06/09/25 10:08		NF/IZ	OK
13	LB136070BSW	LB136070BSW	LCS	06/09/25 10:29		NF/IZ	OK
14	Q2268-01	MW-4-20250605	SAM	06/09/25 10:51	SO2-4 is high	NF/IZ	Dilution
15	Q2268-02	MW-5-20250605	SAM	06/09/25 11:12	SO2-4 is high	NF/IZ	Dilution
16	Q2268-03	MW-2-20250605	SAM	06/09/25 11:34		NF/IZ	OK
17	Q2268-04	MW-2-20250605MS	MS	06/09/25 11:56		NF/IZ	OK
18	Q2268-05	MW-2-20250605MSD	MSD	06/09/25 12:17		NF/IZ	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136070

Review By	rubina	Review On	6/11/2025 1:09:59 PM
Supervise By	Iwona	Supervise On	6/11/2025 1:28:23 PM
SubDirectory	LB136070	Test	Sulfate

STD. NAME	STD REF.#
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192
ICV Standard	WP113193
CCV Standard	WP113430
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113431
Chk Standard	WP113194,WP113195

19	Q2268-06	MW-2-20250605-A	SAM	06/09/25 12:39		NF/IZ	OK
20	Q2268-07	MW-6-20250605	SAM	06/09/25 13:00		NF/IZ	OK
21	Q2268-08	MW-3-20250605	SAM	06/09/25 13:22		NF/IZ	OK
22	CCV2	CCV2	CCV	06/09/25 13:43		NF/IZ	OK
23	CCB2	CCB2	CCB	06/09/25 14:05		NF/IZ	OK
24	Q2268-10	FB-20250605	SAM	06/09/25 14:26		NF/IZ	OK
25	Q2268-01DL	MW-4-20250605DL	SAM	06/09/25 14:48	5X For SO2-4	NF/IZ	Confirms
26	Q2268-02DL	MW-5-20250605DL	SAM	06/09/25 15:09	10X For SO2-4	NF/IZ	Confirms
27	CCV3	CCV3	CCV	06/09/25 15:31		NF/IZ	OK
28	CCB3	CCB3	CCB	06/09/25 15:52		NF/IZ	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136082

Review By	jignesh	Review On	6/10/2025 11:34:09 AM
Supervise By	Iwona	Supervise On	6/10/2025 12:56:22 PM
SubDirectory	LB136082	Test	TDS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136082BL	LB136082BL	MB	06/09/25 12:30		jignesh	OK
2	LB136082BS	LB136082BS	LCS	06/09/25 12:30	WP113460	jignesh	OK
3	Q2268-01	MW-4-20250605	SAM	06/09/25 12:30		jignesh	OK
4	Q2268-02	MW-5-20250605	SAM	06/09/25 12:30		jignesh	OK
5	Q2268-03	MW-2-20250605	SAM	06/09/25 12:30		jignesh	OK
6	Q2268-03DUP	MW-2-20250605DUP	DUP	06/09/25 12:30		jignesh	OK
7	Q2268-06	MW-2-20250605-A	SAM	06/09/25 12:30		jignesh	OK
8	Q2268-07	MW-6-20250605	SAM	06/09/25 12:30		jignesh	OK
9	Q2268-08	MW-3-20250605	SAM	06/09/25 12:30		jignesh	OK
10	Q2268-10	FB-20250605	SAM	06/09/25 12:30		jignesh	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : Q2268

Test : Sulfate,TDS

Prepbatch ID :

Sequence ID/Qc Batch ID: LB136070,LB136082,

Standard ID :
WP112796,WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192,WP113193,WP113194,WP113195,WP113430,WP113431,

Chemical ID :
M6041,W2647,W3112,W3163,W3180,W3197,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4035	IC ELUENT CONCENTRATE FOR IC-1	WP112796	04/22/2025	10/22/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 04/22/2025

FROM 2.10000gram of W2647 + 84.75000gram of W3163 + 913.15000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2487	Anions 300/9056 calibration standard 1	WP113186	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
24	Anions 300/9056 calibration standard 2	WP113187	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 0.20000ml of W3180 + 9.80000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
25	Anions 300/9056 calibration standard 3	WP113188	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 0.40000ml of W3180 + 9.60000ml of W3112 = Final Quantity: 10.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
26	Anions 300/9056 calibration standard 4	WP113189	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 0.50000ml of W3180 + 9.50000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP113190	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 5.00000ml of W3180 + 95.00000ml of W3112 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3679	Anions 300/9056 calibration standard 6	WP113191	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 2.00000ml of W3180 + 8.00000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3681	Anions 300/9056 calibration standard 7	WP113192	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 2.50000ml of W3180 + 7.50000ml of W3112 = Final Quantity: 10.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP113193	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4036	IC ELUENT FOR IC-1	WP113194	05/22/2025	06/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/22/2025

FROM 1980.00000ml of W3112 + 20.00000ml of WP112796 = Final Quantity: 2000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4037	IC H2SO4 FOR IC-1	WP113195	05/22/2025	06/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/22/2025

FROM 5.60000ml of M6041 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP113430	06/09/2025	06/10/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/11/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP113431	06/09/2025	06/10/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/11/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / Iwona	12/10/2024 / Iwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	V2-MEB742616	02/19/2026	02/19/2025 / Iwona	01/27/2025 / Iwona	W3180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	040525	04/05/2027	04/08/2025 / Iwona	04/08/2025 / Iwona	W3197

Sodium Bicarbonate, Powder
BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)

Material No.: 3506-05
Batch No.: 0000240594
Manufactured Date: 2019/06/05
Retest Date: 2026/06/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaHCO_3$) (dried basis)	99.7 - 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO_4)	<= 0.001 %	0.001
Sulfur Compounds (as SO_4)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities - Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH_4)	<= 5 ppm	5
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	5

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis

Material	BDH9284-2.5KG
Material Description	BDH SODIUM CARB ANHYD ACS 2.5KG
Grade	U S P REAGENT (ACS GRADE)
Batch	24E3156178
Reassay Date	09/30/2027
CAS Number	497-19-8
Molecular Formula	Na2CO3
Molecular Mass	105.99
Date of Manufacture	09/01/2023
Storage	Room Temperature

Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed above.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Ion Chromatography Solution
Catalog Number:	300-CAL-A
Lot Number:	V2-MEB742616
Matrix:	H2O
Value / Analyte(s):	150 µg/mL ea: Sulfate, 100 µg/mL ea: Bromide, 50 µg/mL ea: o-Phosphate as P, 30 µg/mL ea: Chloride, Nitrite as N, 25 µg/mL ea: Nitrate as N, 20 µg/mL ea: Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	**100.0 ± 0.5 µg/mL**	**Chloride, Cl**	**30.01 ± 0.13 µg/mL**
Fluoride, F-	**20.00 ± 0.07 µg/mL**	**Nitrate as N, NNO3-**	**25.00 ± 0.10 µg/mL**
Nitrite as N, NNO2-	**30.00 ± 0.10 µg/mL**	**o-Phosphate as P, PPO4**	**50.00 ± 0.18 µg/mL**
Sulfate, SO4	**150.0 ± 0.8 µg/mL**		

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

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	190830
Cl	Fajans	999c	999c
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	170309
NNO2-	IC Assay	Traceable to 40H	08228TH-H2
NNO2-	Calculated	40h	40h
PPO4	IC Assay	3186	170606
SO4	IC Assay	3181	080603

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

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

Characterization of CRM/RM by Two or More Methods

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

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 02, 2024

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

11.2 Lot Expiration Date

- **April 02, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

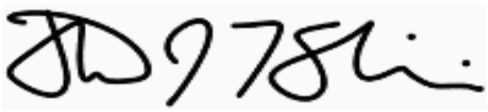
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Instrument IC-1 Analyst : NF Method: 300.0 / 9056A

Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method name	date time	Initial	Analyst
STD1	0	0	0	0	0	0	0	IC1-032125	3/21/2025 10:45	10	NF/IZ
STD2	0.421	0.619	0.631	2.075	0.523	1.052	3.247	IC1-032125	3/21/2025 11:07	10	NF/IZ
STD3	0.795	1.199	1.203	3.994	1.001	1.993	5.998	IC1-032125	3/21/2025 11:28	10	NF/IZ
STD4	0.977	1.475	1.468	4.904	1.226	2.407	7.216	IC1-032125	3/21/2025 11:50	10	NF/IZ
STD5	1.993	3.009	2.995	10.03	2.493	4.968	14.842	IC1-032125	3/21/2025 12:11	10	NF/IZ
STD6	4.034	5.988	5.986	19.975	5.011	10.256	30.502	IC1-032125	3/21/2025 12:32	10	NF/IZ
STD7	4.979	7.51	7.517	25.022	6.247	12.323	36.695	IC1-032125	3/21/2025 12:54	10	NF/IZ
ICV	2.031	3.038	3.08	10.364	2.568	5.199	15.269	IC1-032125	3/21/2025 13:37	10	NF/IZ
ICB	0	0.122	0.08	0	0	0	0	IC1-032125	3/21/2025 13:58	10	NF/IZ
CCV	2.034	3.119	3.093	10.383	2.559	5.188	15.179	IC1-032125	4/3/2025 9:38	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-032125	4/3/2025 9:59	10	NF/IZ
LB135296BSW	2.028	3.121	3.103	10.387	2.561	5.226	15.185	IC1-032125	4/3/2025 10:43	10	NF/IZ
LB135296BLW	0	0	0	0	0	0	0	IC1-032125	4/3/2025 11:04	10	NF/IZ
Q1711-01	0.332	26.59	0	0.215	0	2.108	10.666	IC1-032125	4/3/2025 12:29	10	NF/IZ
Q1711-02MS	2.301	28.881	3.076	10.43	2.571	2.367	24.892	IC1-032125	4/3/2025 12:50	10	NF/IZ
Q1711-03MSD	2.172	28.857	2.983	10.101	2.479	1.573	24.485	IC1-032125	4/3/2025 13:12	10	NF/IZ
Q1711-04	0.275	20.1	0	0.221	0	0	4.529	IC1-032125	4/3/2025 13:55	10	NF/IZ
Q1711-08	0	0.047	0	0	0	0	0	IC1-032125	4/3/2025 14:16	10	NF/IZ
Q1716-01	0.433	427.687	0	0.63	0.296	0	54.697	IC1-032125	4/3/2025 14:38	10	NF/IZ
Q1711-01DLX10	0.054	2.364	0	0	0	0	1.413	IC1-032125	4/3/2025 14:59	10	NF/IZ
Q1711-04DLX5	0.071	3.687	0	0	0	0	1.238	IC1-032125	4/3/2025 15:21	10	NF/IZ
CCV	2.072	3.107	3.112	10.418	2.589	5.237	15.386	IC1-032125	4/3/2025 15:43	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-032125	4/3/2025 17:16	10	NF/IZ

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q 22608
COC Number 2046472

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Parsons
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP:
ATTENTION: Stephen Liberatore
PHONE: 315-418-8767 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ~~Parsons~~ Con Ed Atlantic Ave
PROJECT NO.: 453957-01000 LOCATION: Brooklyn, NY
PROJECT MANAGER: Stephen Liberatore
e-mail: Stephen.Liberatore@parsons.com
PHONE: 315-8767 FAX:

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#:
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP 13212
ATTENTION: Stephen Liberatore PHONE: 315-418-8767

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): ↓ DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 4 (QC + Full Raw Data)
- ☑ Level 2 (Results + QC)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: VOCs+TICs 2: SVOCs+TICs 3: Sulfate 4: TDS 5: 6: 7: 8: 9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	E	E	E						← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	MW-4_20250605	W		X	6/5/25	0920	4	X		X	X						
2.	MW-5_20250605	W		X	6/5/25	1040	4	X		X	X						
3.	MW-2_20250605-m	W		X	6/5/25	1215	15	X	X	X	X						MS/MSD
4.	MW-2_20250605-9	W		X	6/5/25	1215	5	X	X	X	X						FD
5.	MW-6_20250605	W		X	6/5/25	1350	5	X	X	X	X						
6.	MW-3_20250605	W		X	6/5/25	1445	5	X	X	X	X						
7.	TB_20250605	W		X	6/5/25	—	2	X									
8.	FB_20250605	W		X	6/5/25	1500	5	X	X	X	X						
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	6-5-25 1330	1. 6-6-25 1330
2.		2.
3.	DATE/TIME: 6-6-25 1642	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: Please cc kirsten.valentini@parsons.com

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2268 PARS02
Client Name : PARSONS Engineering of N
Client Contact : Stephen Liberatore
Invoice Name : PARSONS Engineering of N
Invoice Contact : Stephen Liberatore

Order Date : 6/6/2025 2:21:00 PM
Project Name : Con Ed Non MGP – Atlanti
Receive DateTime : 6/6/2025 ~~12:00:00~~ 16:42 AM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2268-01	MW-4-20250605	Water	06/05/2025	09:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-02	MW-5-20250605	Water	06/05/2025	10:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-03	MW-2-20250605	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-04	Q2268-03MS	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-05	Q2268-03MSD	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-06	MW-2-20250605-A	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-07	MW-6-20250605	Water	06/05/2025	13:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2268-08	MW-3-20250605	Water	06/05/2025	14:45					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2268 PARS02
Client Name : PARSONS Engineering of N
Client Contact : Stephen Liberatore
Invoice Name : PARSONS Engineering of N
Invoice Contact : Stephen Liberatore

Order Date : 6/6/2025 2:21:00 PM
Project Name : Con Ed Non MGP – Atlanti
Receive DateTime : 6/6/2025 ~~12:00:00 AM~~ 16:42
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2268-09	TB-20250605	Water	06/05/2025	00:00						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2268-10	FB-20250605	Water	06/05/2025	15:00						
					VOCMS Group1		8260-Low	10 Bus. Days		

Relinquished By :
Date / Time : 6/9/25 0845

Received By : Sam
Date / Time : 06/09/25 8.45 MH 4

SAMPLES RECEIVED ON 6/6/25 @1642
PLACED IN SM-REF-2

Storage Area : VOA Refridgerator Room