



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB98602

Analysis Date: 10/15/2018

BalanceID: WC SC-3

OvenID: EX OVEN-2

ANALYST: JIGNESH

REVIEWED BY: apatel

Extraction Date: 10/15/2018

Extraction IN Time: 08:00

Extraction OUT Time: 08:45

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB98602BL	LB98602BL	WATER	2	1000	100	3.0266	3.0266	0	3.0266	3.0266	0.0000	0
2	LB98602BS	LB98602BS	WATER	2	1000	100	3.1887	3.1887	0	3.2073	3.2073	0.0186	18.6
3	LB98602BSD	LB98602BSD	WATER	2	1000	100	3.2836	3.2836	0	3.3024	3.3024	0.0188	18.8
4	J5458-01	RAV-RAINEY-BEFORE-10-0	WATER	2	970	100	3.1980	3.1980	0	3.1992	3.1992	0.0012	1.24
5	J5458-02	RAV-RAINEY-AFTER-10-03	WATER	2	1000	100	3.1090	3.1090	0	3.1104	3.1104	0.0014	1.4
6	J5458-03	RAV-006-10-03-18	WATER	2	1000	100	3.1586	3.1586	0	3.1587	3.1587	0.0001	0.1
7	J5458-04	RAV-01D-10-03-18	WATER	2	980	100	3.1270	3.1270	0	3.1273	3.1273	0.0003	0.31
8	J5458-05	RAV-01A-10-03-18	WATER	2	980	100	3.0593	3.0593	0	3.0594	3.0594	0.0001	0.1
9	J5458-06	RAV-011-10-03-18	WATER	2	980	100	3.1318	3.1318	0	3.1326	3.1326	0.0008	0.82
10	J5510-01	001M-WILLETS-PT-BLVD-C	WATER	2	980	100	3.0419	3.0419	0	3.0524	3.0524	0.0105	10.71
11	J5510-02	002M-35TH-AVE-OCT	WATER	2	980	100	2.9755	2.9755	0	2.9876	2.9876	0.0121	12.35



QC Batch# LB98602 Test: Oil and Grea Analysis Date: 10/15/2018

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W2419
pH Paper 0-14	W2416
Sodium Sulfate	EP2519
1:1 HCL	WP64228
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP64229
LCSWD	5.00 ML	WP64230
MS/MSD	NA	NA

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-3

Before Analysis

0.0020 gram Balance:	<u>0.0018</u>	In OVEN TEMP :	<u>71</u>	Dessicator Time In :	<u>10:26</u>
1.0000 gram Balance:	<u>1.0004</u>	In Time:	<u>09:20</u>		
Bal Check Time:	<u>08:25</u>	Out OVEN TEMP:	<u>71</u>	Dessicator Time Out:	<u>10:50</u>
		Out Time:	<u>10:25</u>		

After Analysis

0.0020 gram Balance:	<u>0.0021</u>	In OVEN TEMP :	<u>70</u>	Dessicator Time In :	<u>11:56</u>
1.0000 gram Balance:	<u>1.0005</u>	In Time:	<u>11:20</u>		
Bal Check Time:	<u>13:20</u>	Out OVEN TEMP:	<u>70</u>	Dessicator Time Out:	<u>12:30</u>
		Out Time:	<u>11:55</u>		

IC-1 300.0

10-15-18

AL

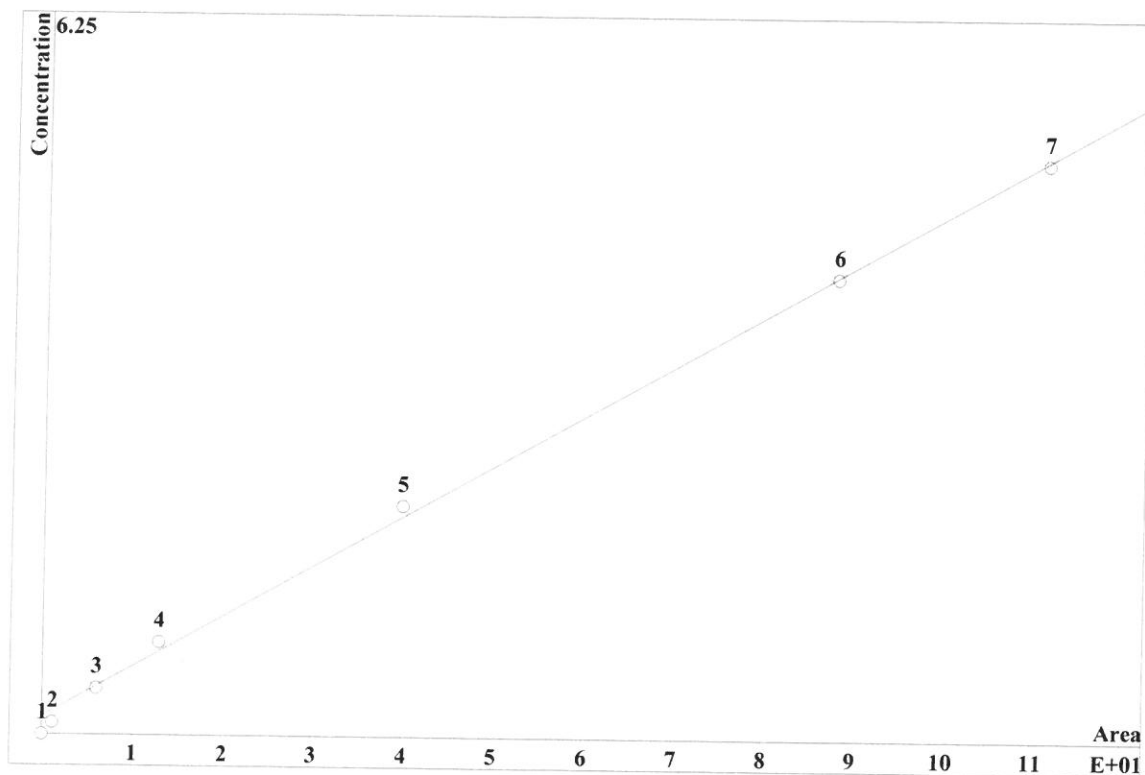
Clear table

ident	concentrati on F-	concentrati on CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-09_	10/9/18 13:09		AK/AP
STD2	0.2080	0.2410	0.2380	0.7970	0.2010	0.1680	1.3510	_2018-10-09_	10/9/18 13:39		AK/AP
STD3	0.4200	0.6230	0.6270	2.0440	0.5130	1.0010	3.2010	_2018-10-09_	10/9/18 14:09		AK/AP
STD4	0.7230	1.2210	1.2240	4.0640	1.0100	2.1590	6.0420	_2018-10-09_	10/9/18 14:39		AK/AP
STD5	1.9050	2.8150	2.7940	9.3800	2.3560	4.8930	13.7910	_2018-10-09_	10/9/18 15:09		AK/AP
STD6	4.0140	5.9540	5.9940	20.0350	4.9800	10.0720	29.8690	_2018-10-09_	10/9/18 15:39		AK/AP
STD7	5.0290	7.5970	7.5720	25.1790	6.3140	12.4580	37.9970	_2018-10-09_	10/9/18 16:09		AK/AP
ICV	2.0790	3.0350	2.9690	9.9510	2.4550	5.4830	14.6680	_2018-10-09_	10/9/18 16:40		AK/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-09_	10/9/18 17:10		AK/AP
CCV	2.0830	2.9320	2.8420	9.5990	2.4060	5.2610	14.5590	_2018-10-11_	10/11/18 7:53		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-11_	10/11/18 8:26		AK/AP
LB98608BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-11_	10/11/18 8:56		AK/AP
LB98608BSW	1.9240	2.7270	2.8010	9.1970	2.2710	5.5990	13.6070	_2018-10-11_	10/11/18 10:04		AK/AP
J5429-02	0.0000	0.4090	0.0000	0.0000	0.0000	0.0000	2.8350	_2018-10-11_	10/11/18 11:06		AK/AP
J5401-01	0.0000	0.1590	0.0000	0.0000	0.1340	0.0000	0.0000	_2018-10-11_	10/11/18 11:36		AK/AP
J5429-03	0.0000	0.5080	0.0000	0.0000	0.0000	0.0000	0.9500	_2018-10-11_	10/11/18 12:06		AK/AP
J5429-03DUP	0.0000	0.4780	0.0000	0.0000	0.0000	0.0000	0.9330	_2018-10-11_	10/11/18 12:36		AK/AP
J5429-04MS	0.5780	3.2620	2.8220	10.1160	2.4940	5.2350	15.5760	_2018-10-11_	10/11/18 13:05		AK/AP
J5429-05MSD	0.5320	3.2250	2.7340	9.7340	2.4220	6.2580	15.2580	_2018-10-11_	10/11/18 13:35		AK/AP
CCV	1.8320	3.0680	2.9740	9.9970	2.5150	6.0770	15.0450	_2018-10-11_	10/11/18 14:05		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-11_	10/11/18 14:44		AK/AP
J5452-01	0.0000	0.1700	0.0000	0.0000	0.4000	0.0000	0.0000	_2018-10-11_	10/11/18 15:14		AK/AP
J5452-02	0.0000	0.0000	0.0000	0.0000	0.2920	0.0000	0.0000	_2018-10-11_	10/11/18 15:43		AK/AP
CCV	2.0410	3.0840	2.9800	9.8960	2.5000	5.9130	15.0620	_2018-10-11_	10/11/18 16:13		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2018-10-11_	10/11/18 16:43		AK/AP

CALIBRATION OF COMPONENT F-

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 0.875596 \cdot A + 3.16079$
 RSD: 4.082 %
 Correlation coefficient: 0.999320

IC-1 Cal
 10-9-18 AK

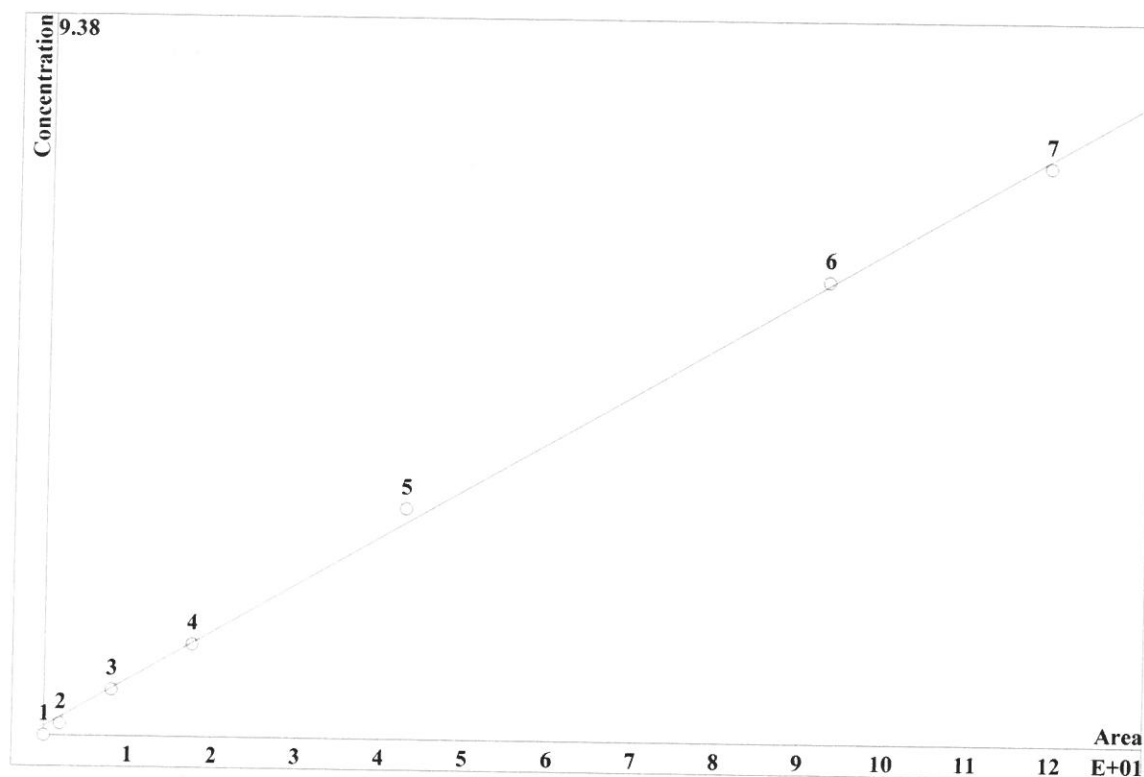


K3 = 0 K2 = 0 K1 = 0.875596 K0 = 3.16079
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.02985	1.139	0.1	20	5.913	Yes	
3	0.1726	5.984	0.4	20	5.913	Yes	
4	0.4044	12.91	0.8	20	5.913	Yes	
5	1.097	39.91	2	20	5.913	Yes	
6	2.433	88.08	4	20	5.913	Yes	
7	3.144	111.3	5	20	5.913	Yes	

CALIBRATION OF COMPONENT CL-

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 1.25459 \cdot A + 2.4076$
 RSD: 3.817 %
 Correlation coefficient: 0.999405



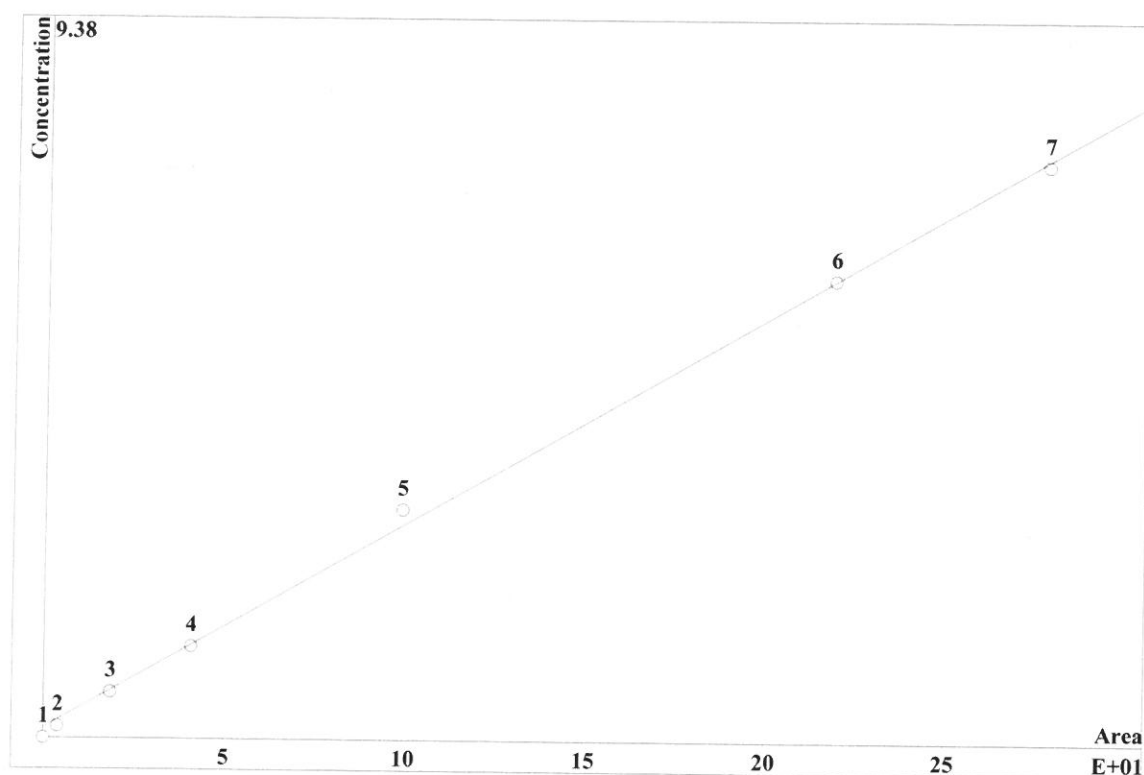
K3 = 0 K2 = 0 K1 = 1.25459 K0 = 2.4076

Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File	
1	0		0	0	0			No
2	0.1178	1.923	0.15	20	8.858			Yes
3	0.4971	8.014	0.6	20	8.858			Yes
4	1.095	17.54	1.2	20	8.858			Yes
5	2.703	42.95	3	20	8.858			Yes
6	5.915	92.99	6	20	8.858			Yes
7	7.569	119.2	7.5	20	8.858			Yes

CALIBRATION OF COMPONENT NO2

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 0.535758 \cdot A + 2.65017$
 RSD: 3.867 %
 Correlation coefficient: 0.999389



K3 = 0 K2 = 0 K1 = 0.535758 K0 = 2.65017

Base: Area

Ref.channel: Cond

ISTD:

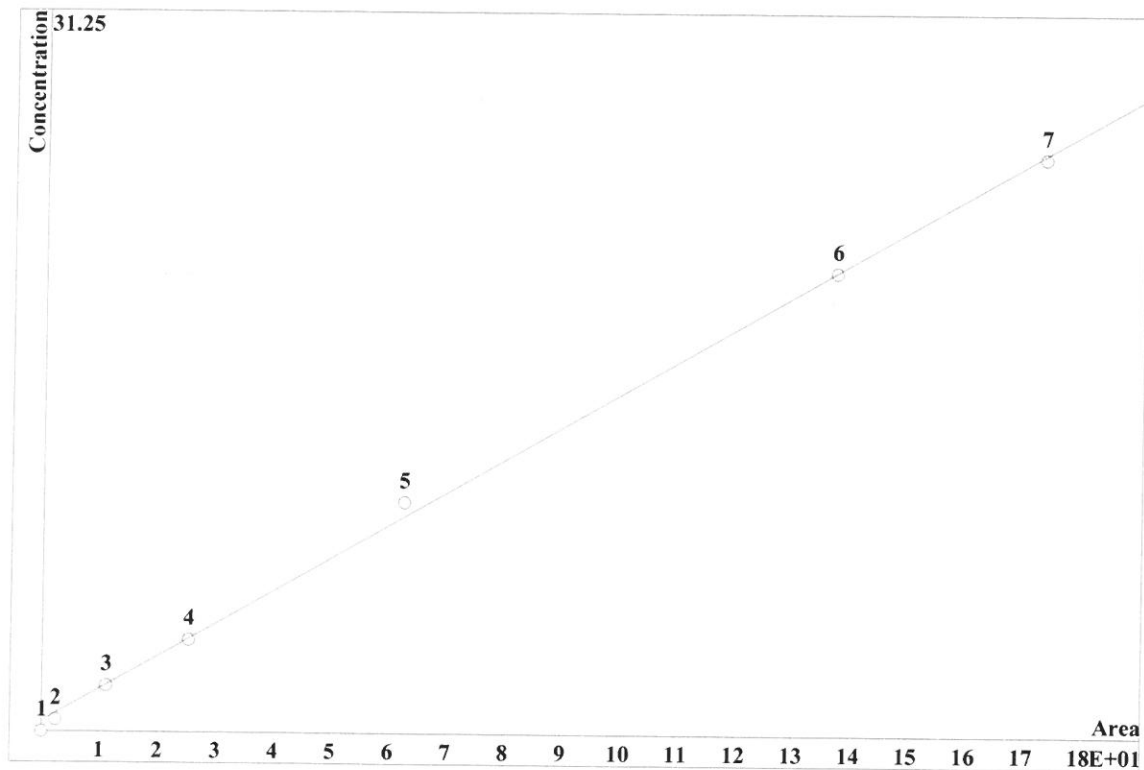
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.2247	3.954	0.15	20	10.65		Yes
3	1.002	18.48	0.6	20	10.65		Yes
4	2.242	40.74	1.2	20	10.65		Yes
5	5.542	99.37	3	20	10.65		Yes
6	12	218.8	6	20	10.65		Yes
7	15.19	277.7	7.5	20	10.65		Yes

CALIBRATION OF COMPONENT BR-

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 2.85249 \cdot A + 9.13358$
 RSD: 3.491 %
 Correlation coefficient: 0.999502



K3 = 0 K2 = 0 K1 = 2.85249 K0 = 9.13358

Base: Area

Ref.channel: Cond

ISTD:

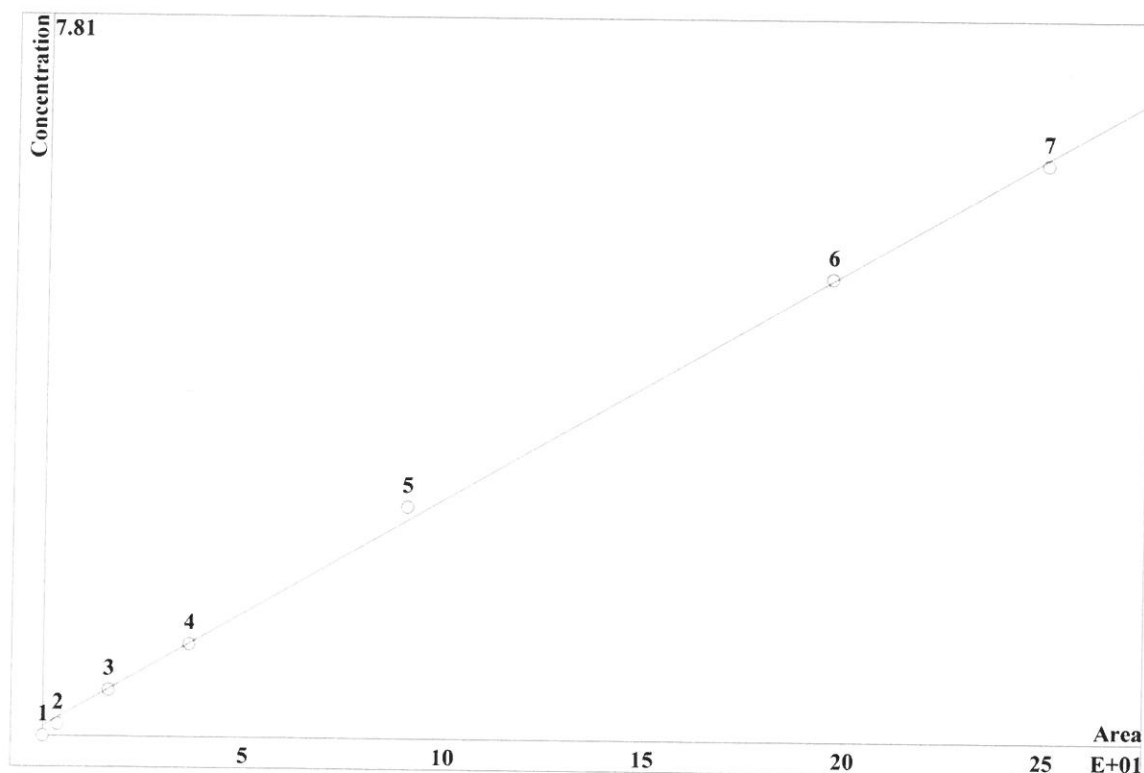
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File	
1	0	0	0	0	0			No
2	0.1204	2.385	0.5	20	13.72			Yes
3	0.5487	11.13	2	20	13.72			Yes
4	1.23	25.3	4	20	13.72			Yes
5	3.007	62.56	10	20	13.72			Yes
6	6.261	137.3	20	20	13.72			Yes
7	7.728	173.3	25	20	13.72			Yes

CALIBRATION OF COMPONENT NO3

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 0.496528 \cdot A + 2.17514$
 RSD: 3.454 %
 Correlation coefficient: 0.999513

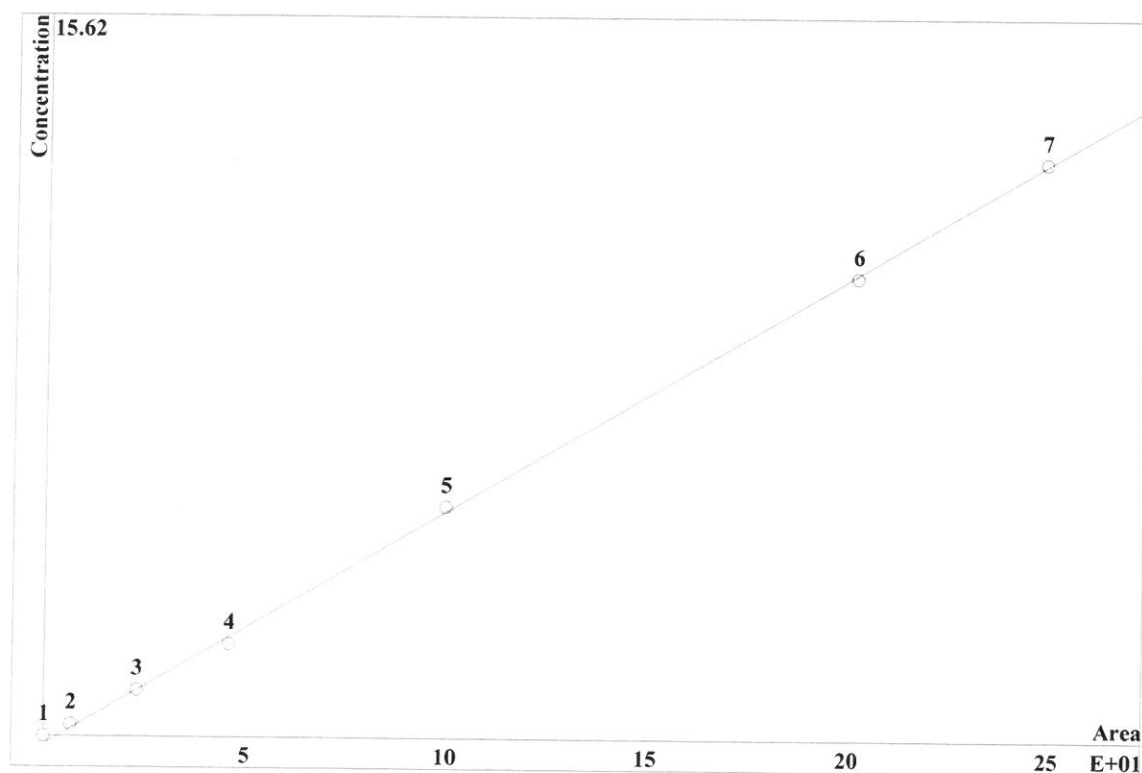


K3 = 0 K2 = 0 K1 = 0.496528 K0 = 2.17514
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File	
1	0	0	0	0	0			No
2	0.1638	3.72	0.125	20	15.65			Yes
3	0.7232	16.29	0.5	20	15.65			Yes
4	1.614	36.32	1	20	15.65			Yes
5	4.071	90.51	2.5	20	15.65			Yes
6	9.097	196.2	5	20	15.65			Yes
7	11.71	250	6.25	20	15.65			Yes

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 1.01662 \cdot A - 3.55994$
 RSD: 2.191 %
 Correlation coefficient: 0.999804



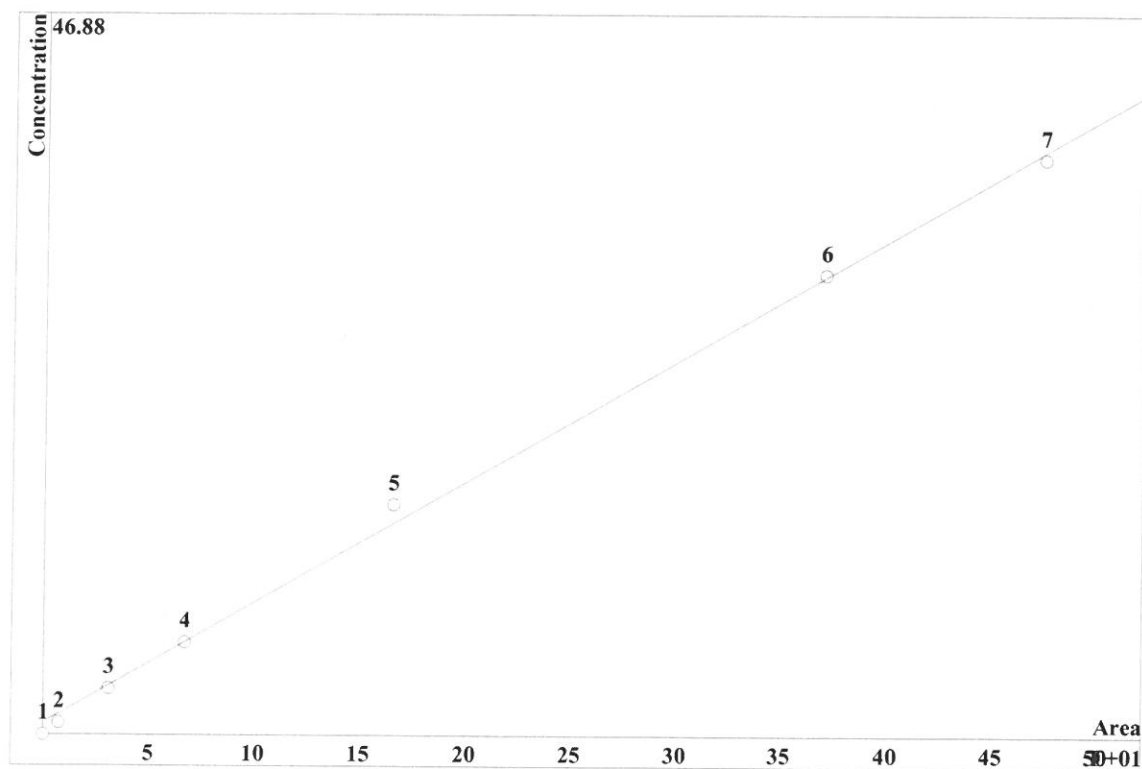
K3 = 0 K2 = 0 K1 = 1.01662 K0 = -3.55994

Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File	
1	0	0	0	0	0			No
2	0.172	6.803	0.25	20	21.48			Yes
3	0.6244	23.19	1	20	21.48			Yes
4	1.294	45.98	2	20	21.48			Yes
5	2.948	99.76	5	20	21.48			Yes
6	6.158	201.6	10	20	21.48			Yes
7	7.796	248.6	12.5	20	21.48			Yes

CALIBRATION OF COMPONENT SO4

Method: ANIONS 10-09-18.mtw
 Equation: $Q = 1.57021 \cdot A + 15.2057$
 RSD: 4.746 %
 Correlation coefficient: 0.999080



K3 = 0 K2 = 0 K1 = 1.57021 K0 = 15.2057

Base: Area

Ref.channel: Cond

ISTD:

Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File	
1	0	0	0	0	0			No
2	0.2519	7.523	0.75	20	25.17			Yes
3	1.056	31.08	3	20	25.17			Yes
4	2.343	67.27	6	20	25.17			Yes
5	5.912	166	15	20	25.17			Yes
6	13.3	370.8	30	20	25.17			Yes
7	17.06	474.3	37.5	20	25.17			Yes

Report date: 10/10/2018 11:06:04 AM
Printed by: wet

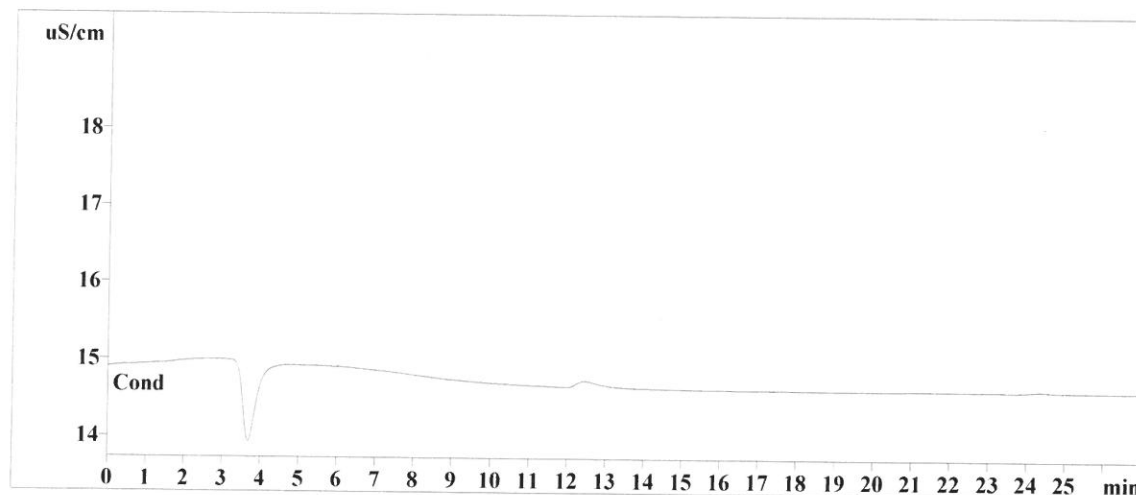
Ident: STD1
Analysis from: 10/9/2018 1:09:43 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:24 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64423

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 2
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 10/9/2018 4:25:49 PM
Printed by: wet

Ident: STD2
Analysis from: 10/9/2018 1:39:39 PM
File: _2018-10-09_

Last save: 10/9/2018 2:06:28 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64424

Last save: 10/9/2018 1:36:32 PM

SAMPLE:

AK/AP

AK

10-10-18

Vial number:

3

Volume:

20.0 µL

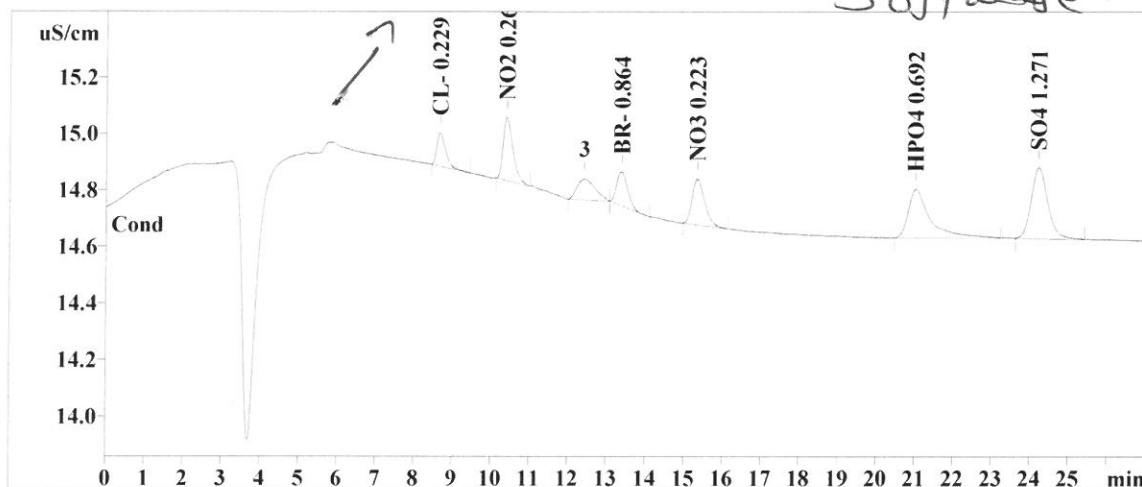
Dilution:

1.00

Amount:

1.0000

Before peak was not integrated by software.



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.66	0.243	0.12	10.45	1.923	6.69	0.
3	10.40	0.266	0.22	19.93	3.954	13.76	0.
4	13.37	0.311	0.12	10.67	2.385	8.30	0.
5	15.34	0.343	0.16	14.51	3.720	12.94	0.
6	21.02	0.505	0.17	15.26	6.803	23.66	0.
7	24.22	0.447	0.25	22.34	7.523	26.17	0.
7	27.00	0.302	1.05	93.15	26.308	91.51	0.

This report has been created by IC Net
METROHM LTD

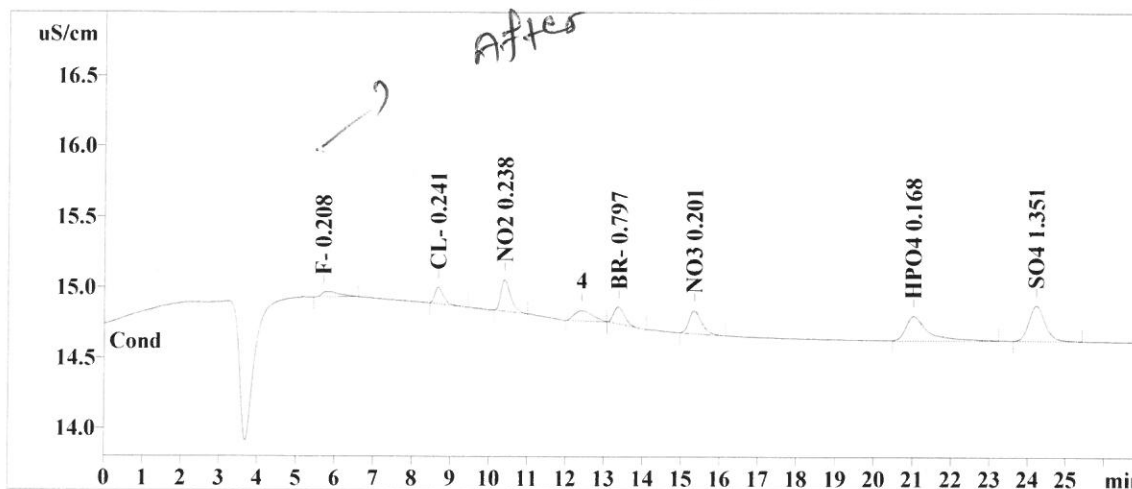
Report date: 10/10/2018 11:06:12 AM
Printed by: wet

Ident: STD2
Analysis from: 10/9/2018 1:39:39 PM
File: _2018-10-09_
Manual peaks!
Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64424

Last save: 10/9/2018 4:37:24 PM

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 3
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.70	0.570	0.03	2.59	1.139	3.81	0.
2	8.66	0.243	0.12	10.18	1.923	6.43	0.
3	10.40	0.266	0.22	19.41	3.954	13.23	0.
4	13.37	0.311	0.12	10.39	2.385	7.98	0.
5	15.34	0.343	0.16	14.14	3.720	12.45	0.
6	21.02	0.505	0.17	14.87	6.803	22.76	0.
7	24.22	0.447	0.25	21.76	7.523	25.17	0.
7	27.00	0.384	1.08	93.33	27.447	91.83	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:06:19 AM
Printed by: wet

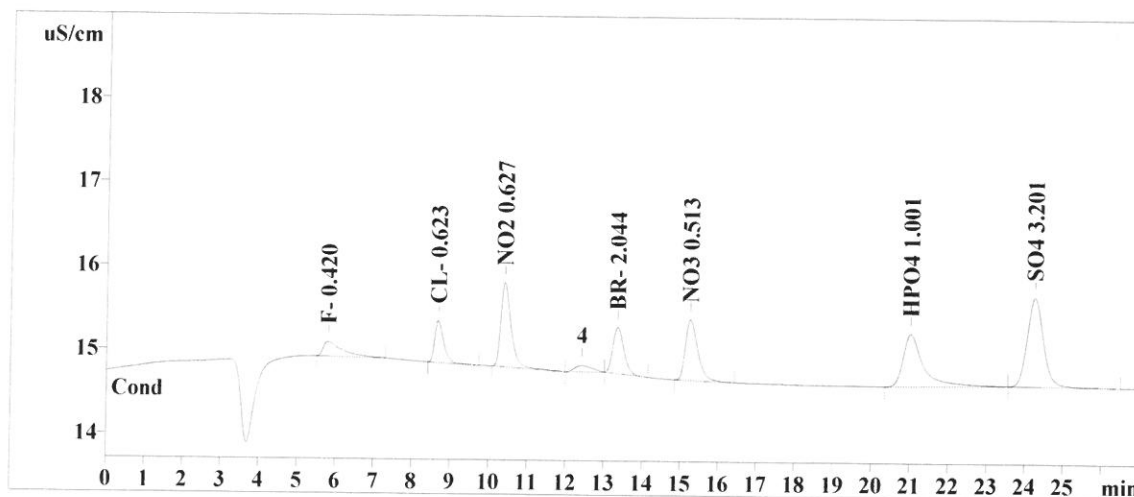
Ident: STD3
Analysis from: 10/9/2018 2:09:34 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:24 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64425

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 4
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.80	0.509	0.17	3.66	5.984	5.14	0.
2	8.67	0.242	0.50	10.58	8.014	6.88	0.
3	10.40	0.266	1.00	21.32	18.477	15.86	0.
4	13.34	0.314	0.55	11.67	11.129	9.55	0.
5	15.26	0.336	0.72	15.37	16.286	13.98	0.
6	21.01	0.478	0.62	13.28	23.192	19.91	0.
7	24.24	0.440	1.06	22.46	31.084	26.68	0.
7	27.00	0.369	4.62	98.33	114.166	97.99	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:06:28 AM
Printed by: wet

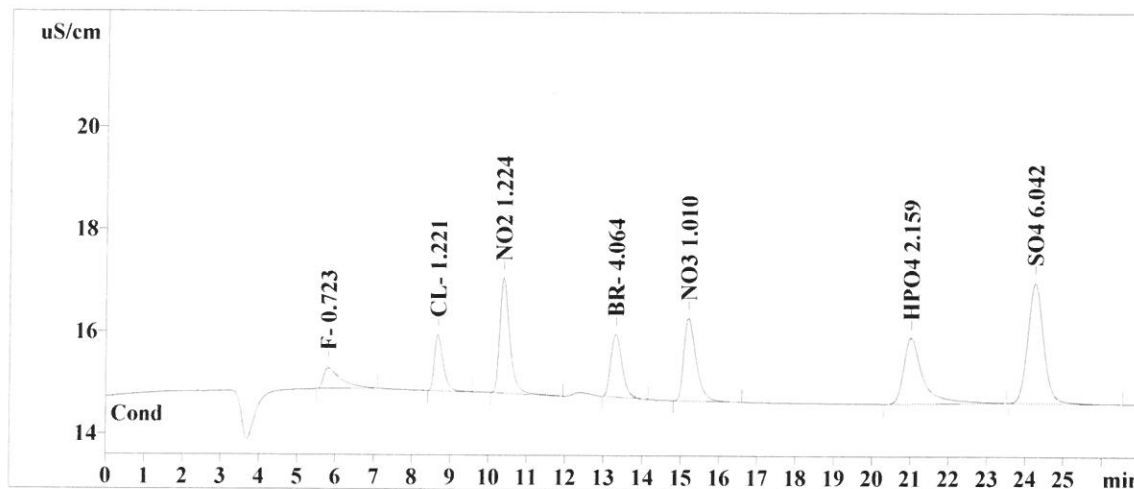
Ident: STD4
Analysis from: 10/9/2018 2:39:29 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:24 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64426

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 5
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.448	0.40	3.95	12.910	5.25	0.
2	8.67	0.240	1.10	10.71	17.540	7.13	0.
3	10.39	0.265	2.24	21.93	40.744	16.56	0.
4	13.30	0.317	1.23	12.03	25.296	10.28	0.
5	15.20	0.336	1.61	15.79	36.320	14.76	0.
6	21.01	0.465	1.29	12.65	45.977	18.69	0.
7	24.25	0.431	2.34	22.91	67.272	27.34	0.
7	27.00	0.357	10.22	99.97	246.059	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:06:37 AM
Printed by: wet

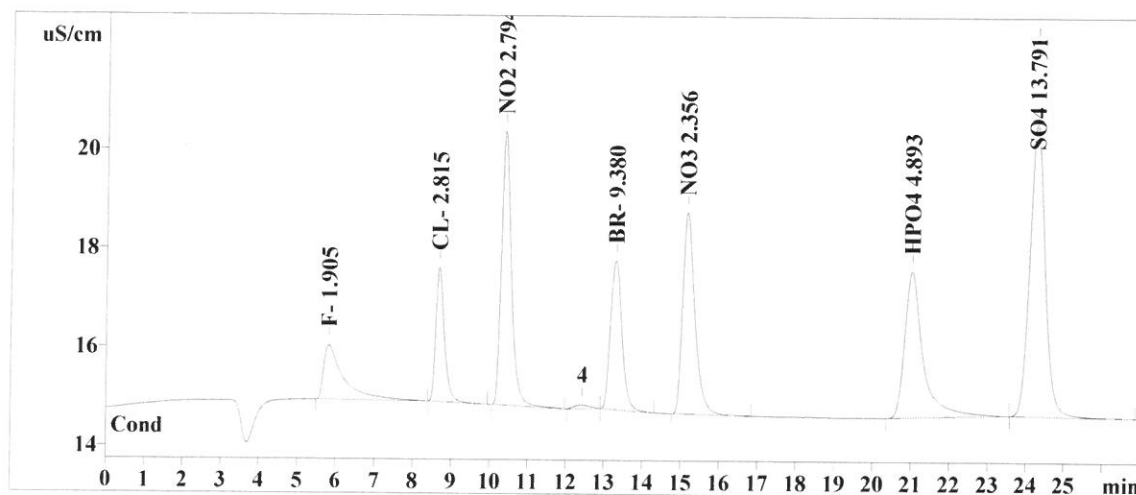
Ident: STD5
Analysis from: 10/9/2018 3:09:24 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:24 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64427

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 6
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.457	1.10	4.32	39.906	6.62	0.
2	8.67	0.237	2.70	10.66	42.952	7.12	0.
3	10.37	0.264	5.54	21.85	99.372	16.47	0.
4	13.29	0.321	3.01	11.86	62.564	10.37	0.
5	15.15	0.331	4.07	16.06	90.515	15.01	0.
6	21.01	0.446	2.95	11.63	99.764	16.54	0.
7	24.25	0.421	5.91	23.32	165.971	27.51	0.
7	27.00	0.354	25.28	99.69	601.044	99.64	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:06:45 AM
Printed by: wet

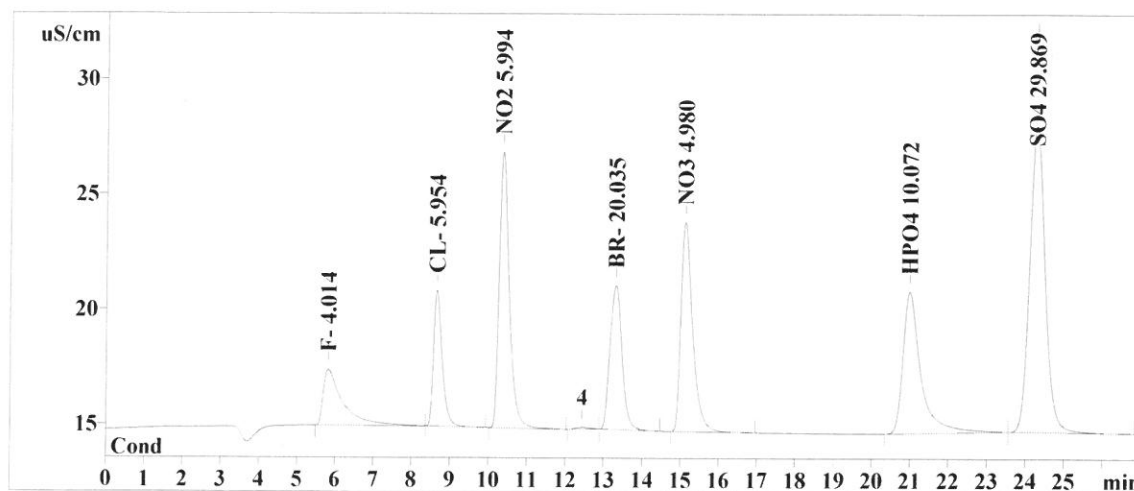
Ident: STD6
Analysis from: 10/9/2018 3:39:19 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:24 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64428

Last save: 10/9/2018 12:19:12 PM

SAMPLE:
: AK/AP
Vial number: 7
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.82	0.464	2.43	4.40	88.085	6.73	0.
2	8.66	0.234	5.91	10.71	92.990	7.11	0.
3	10.36	0.269	12.00	21.72	218.810	16.73	0.
4	13.31	0.342	6.26	11.33	137.275	10.50	0.
5	15.11	0.319	9.10	16.47	196.223	15.00	0.
6	20.99	0.437	6.16	11.15	201.642	15.42	0.
7	24.27	0.418	13.30	24.08	370.755	28.35	0.
7	27.00	0.355	55.16	99.85	1305.779	99.84	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:06:53 AM
Printed by: wet

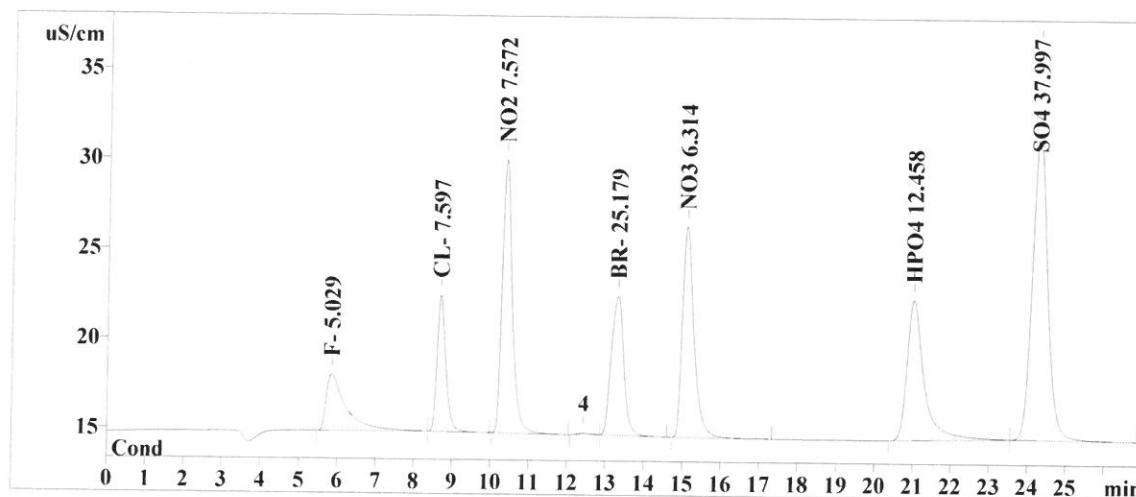
Ident: STD7
Analysis from: 10/9/2018 4:09:14 PM
File: _2018-10-09_

Last save: 10/9/2018 4:37:36 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64429

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
:
Vial number: 8
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.84	0.458	3.14	4.47	111.269	6.72	0.
2	8.68	0.234	7.57	10.77	119.187	7.20	0.
3	10.37	0.270	15.19	21.61	277.707	16.77	0.
4	13.30	0.353	7.73	10.99	173.342	10.47	0.
5	15.09	0.316	11.71	16.67	249.952	15.09	0.
6	21.00	0.430	7.80	11.09	248.580	15.01	0.
7	24.26	0.418	17.06	24.28	474.293	28.63	0.
7	27.00	0.354	70.20	99.88	1654.330	99.88	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/10/2018 11:08:26 AM
 Printed by: wet

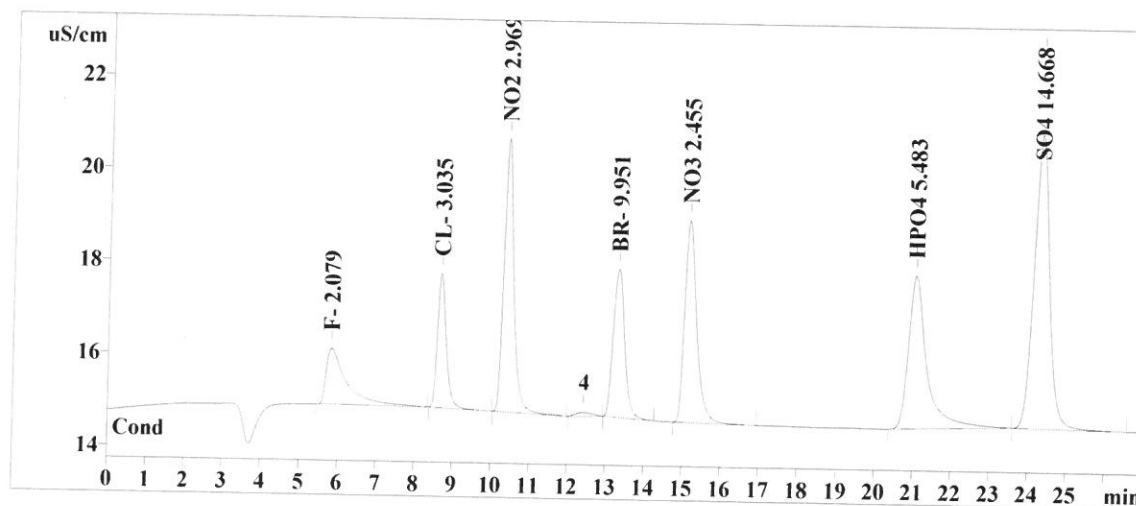
Ident: ICV
 Analysis from: 10/9/2018 4:40:54 PM
 File: _2018-10-09_

Last save: 10/9/2018 5:07:42 PM

Method: ANIONS 10-09-18.mtw
 Run operator: wet
 Analysis number: 64430

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
 : AK/AP
 Vial number: 9
 Volume: 20.0 µL
 Dilution: 1.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.82	0.464	1.20	4.42	43.883	6.77	0.
2	8.66	0.241	2.88	10.58	46.456	7.17	0.
3	10.37	0.264	5.89	21.65	105.879	16.33	0.
4	13.30	0.324	3.18	11.70	66.570	10.27	0.
5	15.14	0.323	4.35	15.98	94.517	14.58	0.
6	21.04	0.447	3.29	12.08	111.370	17.18	0.
7	24.29	0.420	6.33	23.26	177.141	27.33	0.
7	27.00	0.355	27.12	99.69	645.815	99.63	0.

This report has been created by IC Net
 METROHM LTD

Report date: 10/10/2018 11:08:43 AM
Printed by: wet

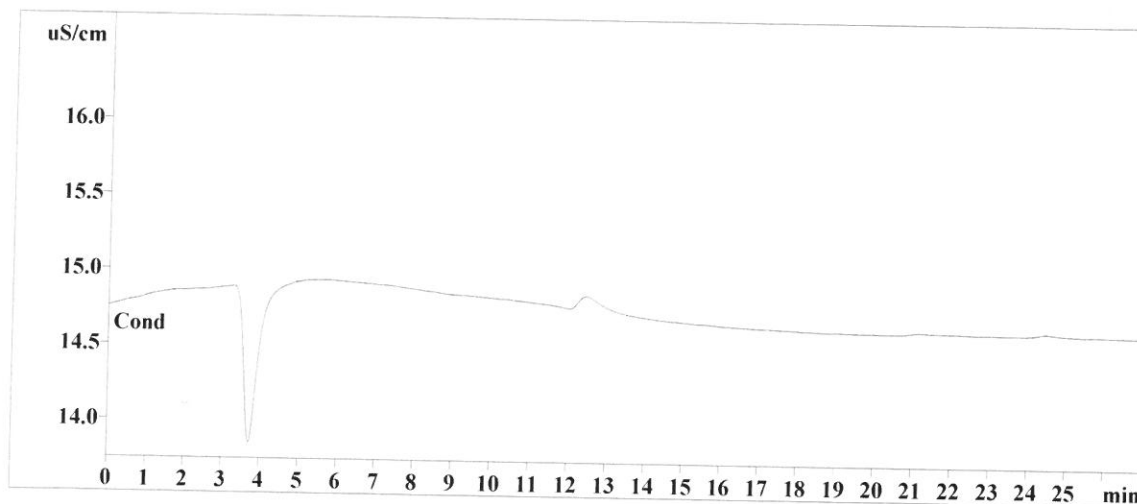
Ident: ICB
Analysis from: 10/9/2018 5:10:48 PM
File: _2018-10-09_

Last save: 10/10/2018 11:08:42 AM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64431

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 10
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:21:21 PM
Printed by: wet

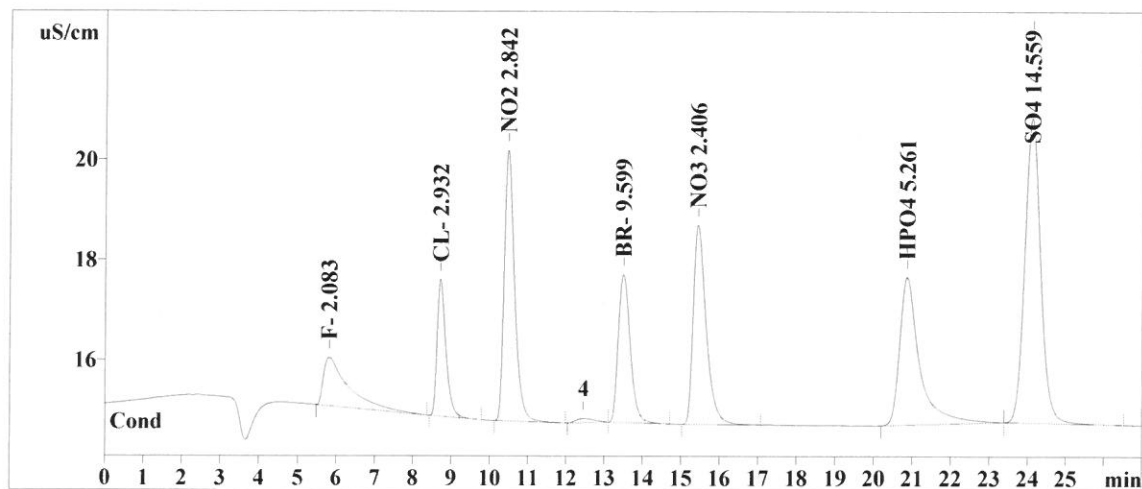
Ident: CCV
Analysis from: 10/11/2018 7:53:11 AM
File: _2018-10-11_

Last save: 10/11/2018 8:20:00 AM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64457

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 2
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.82	0.593	0.97	3.84	43.972	6.96	0.
2	8.71	0.246	2.73	10.85	44.819	7.09	0.
3	10.47	0.277	5.41	21.50	101.160	16.01	0.
4	13.49	0.333	2.95	11.72	64.104	10.14	0.
5	15.43	0.345	3.98	15.82	92.519	14.64	0.
6	20.85	0.475	2.95	11.73	107.002	16.93	0.
7	24.09	0.434	6.09	24.20	175.754	27.81	0.
7	27.00	0.386	25.08	99.65	629.330	99.58	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:21:38 PM
Printed by: wet

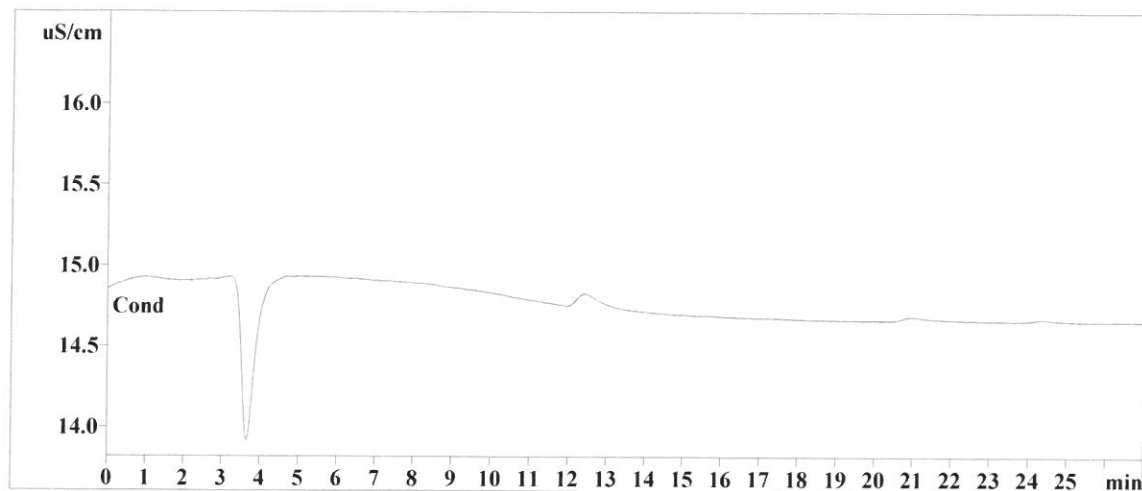
Ident: CCB
Analysis from: 10/11/2018 8:26:07 AM
File: _2018-10-11_

Last save: 10/15/2018 12:21:38 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64458

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 3
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:21:55 PM
Printed by: wet

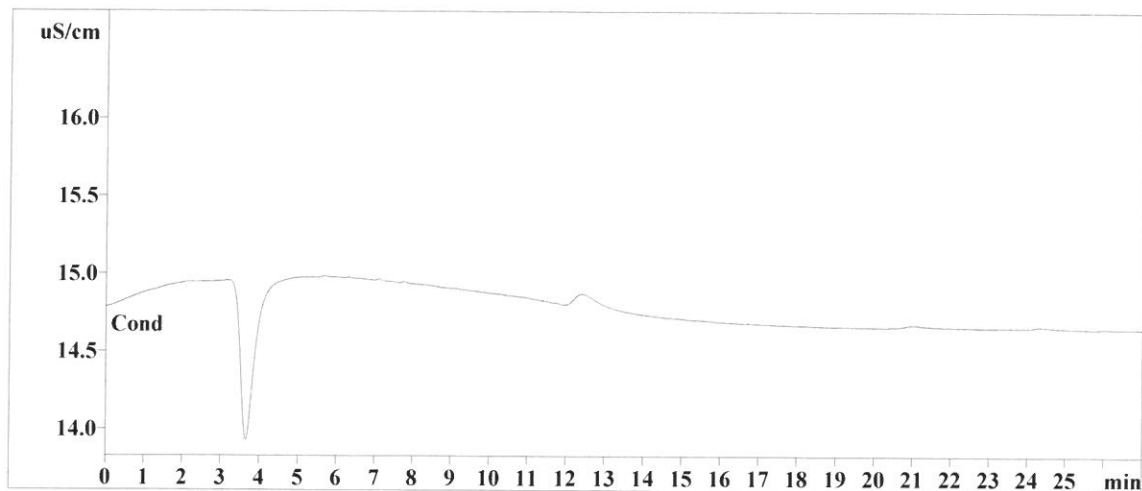
Ident: LB98608BLW
Analysis from: 10/11/2018 8:56:02 AM
File: _2018-10-11_

Last save: 10/15/2018 12:21:54 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64459

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 4
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:25:09 PM
 Printed by: wet

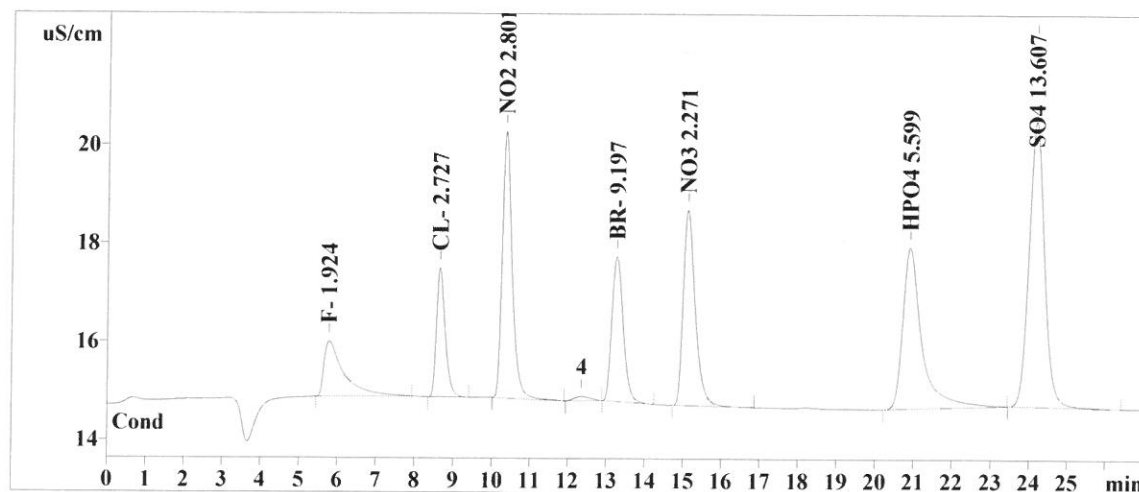
Ident: LB98608BSW
 Analysis from: 10/11/2018 10:04:24 AM
 File: _2018-10-11_

Last save: 10/15/2018 12:24:52 PM

Method: ANIONS 10-09-18.mtw
 Run operator: wet
 Analysis number: 64461

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
 : AK/AP
 Vial number: 5
 Volume: 20.0 µL
 Dilution: 1.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.78	0.465	1.12	4.45	40.341	6.62	0.
2	8.63	0.239	2.62	10.38	41.548	6.81	0.
3	10.34	0.271	5.43	21.49	99.599	16.34	0.
4	13.26	0.323	2.94	11.65	61.283	10.05	0.
5	15.10	0.328	3.97	15.74	87.102	14.29	0.
6	20.89	0.456	3.28	12.98	113.651	18.64	0.
7	24.16	0.425	5.80	22.97	163.627	26.84	0.
7	27.00	0.358	25.17	99.66	607.150	99.58	0.

This report has been created by IC Net
 METROHM LTD

Report date: 10/15/2018 12:42:57 PM
Printed by: wet

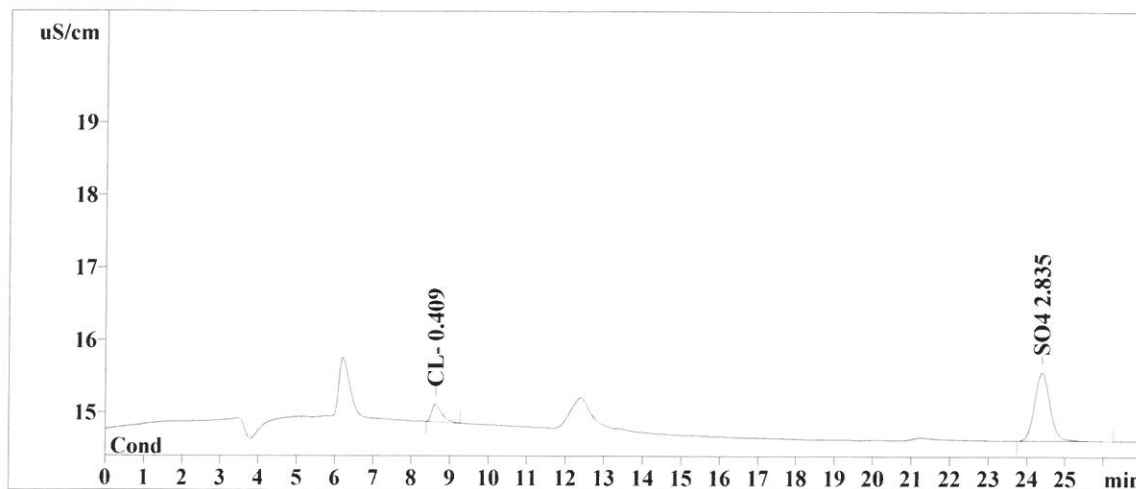
Ident: J5429-02
Analysis from: 10/11/2018 11:06:18 AM
File: _2018-10-11_

Last save: 10/15/2018 12:42:58 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64463

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 20
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.62	0.286	0.24	20.53	4.602	14.83	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.38	0.418	0.94	79.42	26.422	85.17	0.
7	27.00	0.101	1.19	99.95	31.025	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:38:53 PM
Printed by: wet

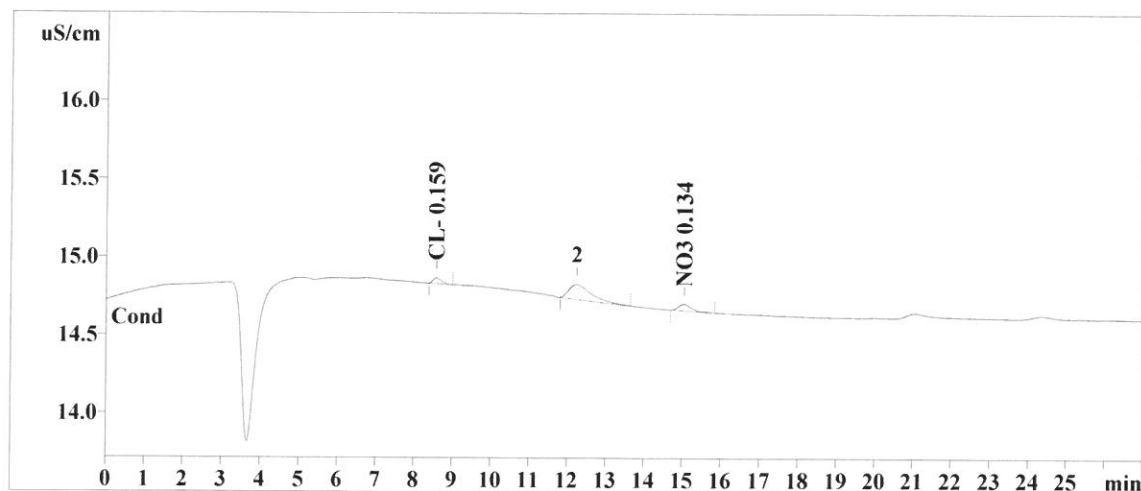
Ident: J5401-01
Analysis from: 10/11/2018 11:36:14 AM
File: _2018-10-11_

Last save: 10/15/2018 12:38:54 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64464

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 21
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.58	0.237	0.04	21.73	0.609	10.93	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	15.04	0.349	0.04	24.17	1.025	18.39	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	27.00	0.084	0.08	45.90	1.635	29.32	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:44:02 PM
Printed by: wet

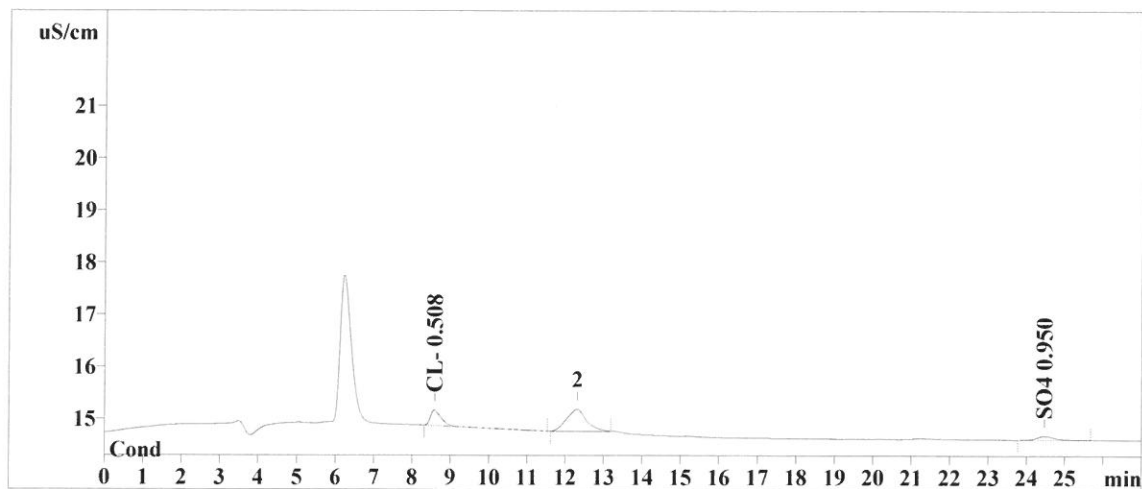
Ident: J5429-03
Analysis from: 10/11/2018 12:06:09 PM
File: _2018-10-11_

Last save: 10/15/2018 12:44:00 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64465

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 22
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.58	0.303	0.30	37.31	6.176	25.91	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.47	0.456	0.07	9.34	2.410	10.11	0.
7	27.00	0.108	0.37	46.65	8.586	36.02	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:44:36 PM
Printed by: wet

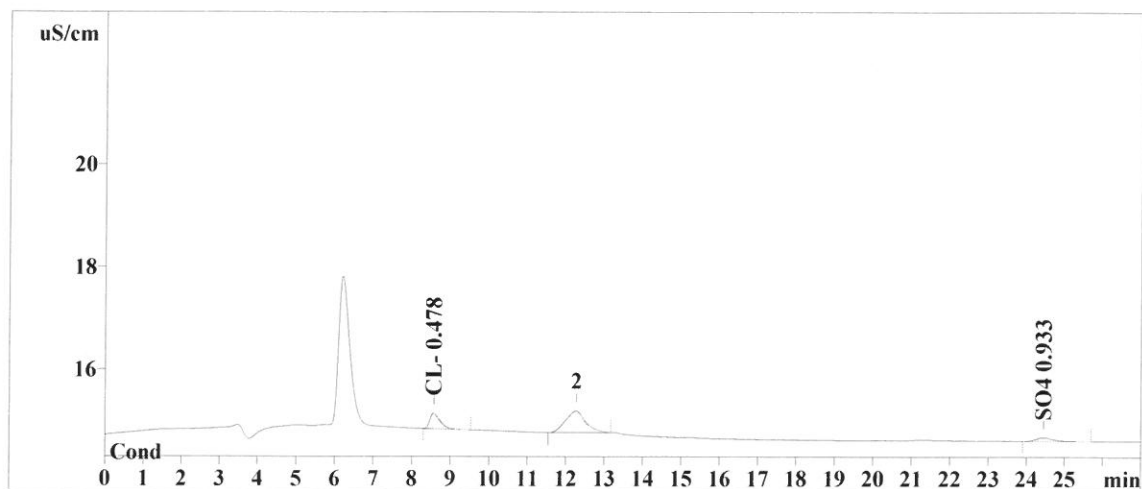
Ident: J5429-03DUP
Analysis from: 10/11/2018 12:36:04 PM
File: _2018-10-11_

Last save: 10/15/2018 12:44:36 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64466

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 23
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.56	0.288	0.30	37.70	5.706	24.45	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.45	0.446	0.07	8.76	2.194	9.40	0.
7	27.00	0.105	0.37	46.46	7.900	33.85	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:45:13 PM
Printed by: wet

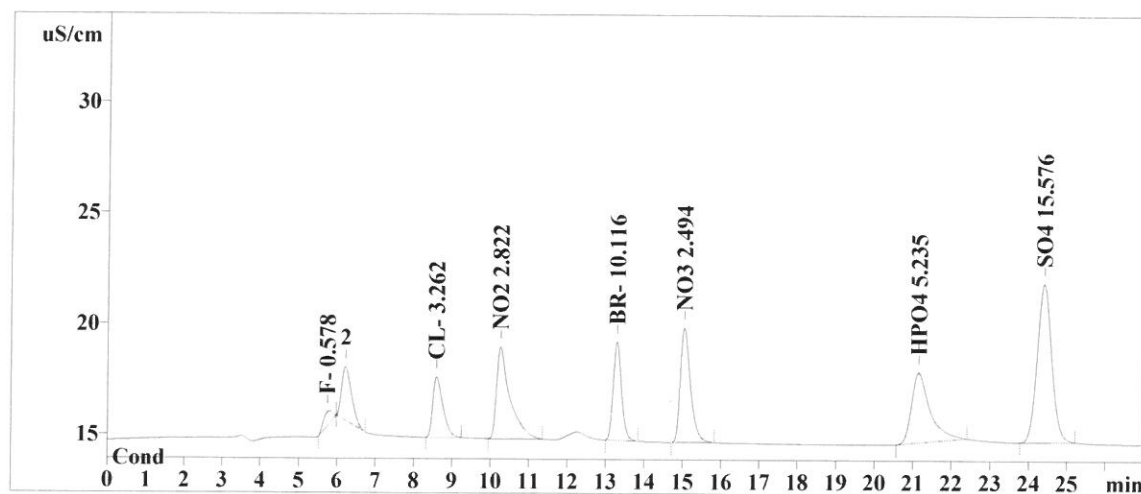
Ident: J5429-04MS
Analysis from: 10/11/2018 1:05:58 PM
File: _2018-10-11_

Last save: 10/15/2018 12:41:34 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64467

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 24
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.74	0.267	0.62	2.06	9.594	1.45	0.
2	8.59	0.281	2.73	9.14	50.079	7.56	0.
3	10.26	0.321	4.14	13.89	100.381	15.16	0.
4	13.29	0.234	4.43	14.87	67.725	10.23	0.
5	15.04	0.280	5.16	17.32	96.069	14.51	0.
6	21.14	0.466	3.17	10.64	106.497	16.08	0.
7	24.39	0.404	7.15	23.98	188.712	28.50	0.
7	27.00	0.322	27.39	91.90	619.057	93.48	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:45:22 PM
Printed by: wet

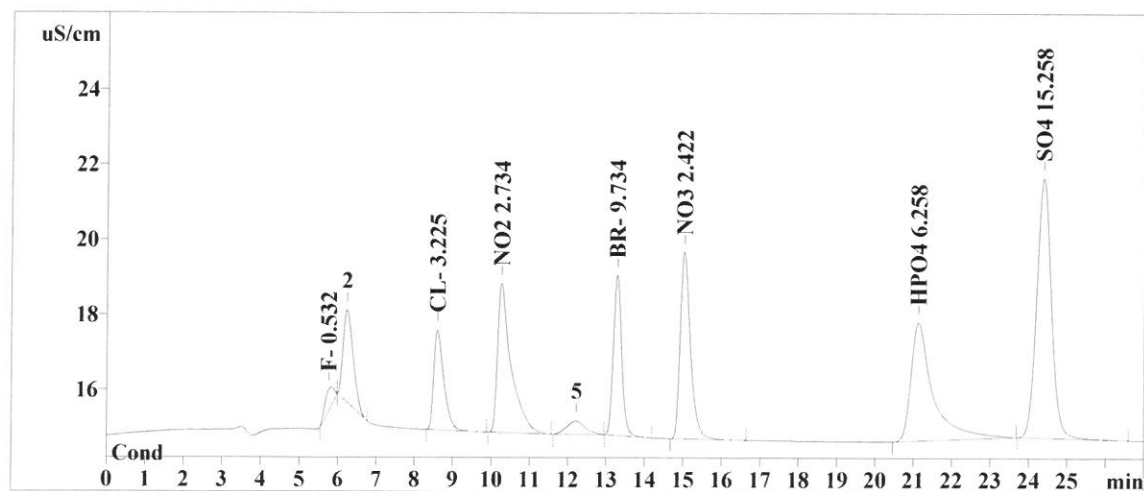
Ident: J5429-05MSD
Analysis from: 10/11/2018 1:35:54 PM
File: _2018-10-11_

Last save: 10/11/2018 2:02:44 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64468

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 25
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.75	0.263	0.56	1.90	8.534	1.25	0.
2	8.59	0.281	2.66	9.09	49.490	7.27	0.
3	10.26	0.323	3.98	13.58	97.114	14.27	0.
4	13.28	0.232	4.26	14.54	65.045	9.56	0.
5	15.02	0.279	4.97	16.96	93.167	13.69	0.
6	21.12	0.501	3.15	10.74	126.622	18.60	0.
7	24.37	0.403	6.91	23.61	184.654	27.13	0.
7	27.00	0.326	26.48	90.42	624.626	91.77	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:45:40 PM
 Printed by: wet

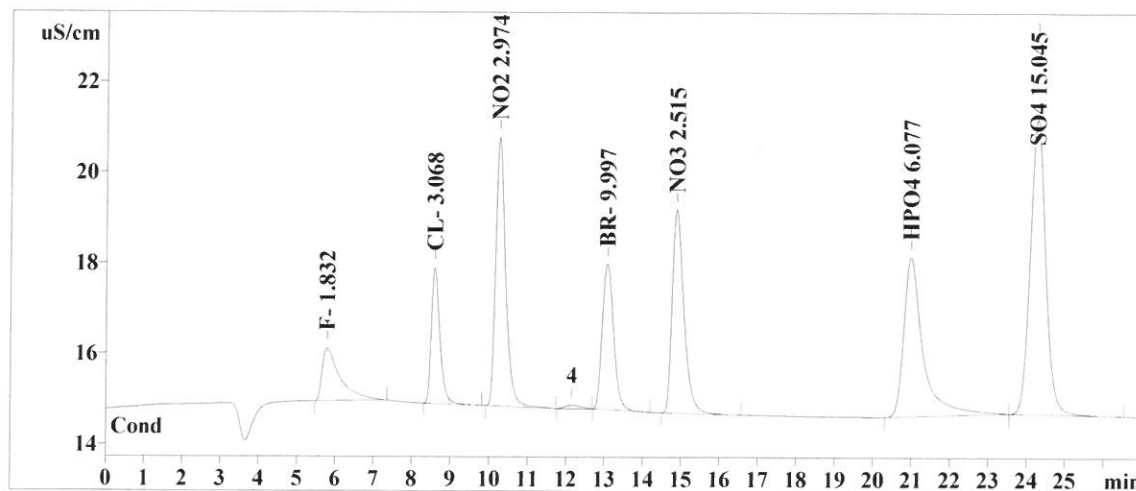
Ident: CCV
 Analysis from: 10/11/2018 2:05:49 PM
 File: _2018-10-11_

Last save: 10/11/2018 2:32:38 PM

Method: ANIONS 10-09-18.mtw
 Run operator: wet
 Analysis number: 64469

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
 : AK/AP
 Vial number: 2
 Volume: 20.0 µL
 Dilution: 1.00
 Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.78	0.450	1.16	4.15	38.242	5.77	0.
2	8.58	0.237	2.98	10.71	46.988	7.09	0.
3	10.25	0.265	5.93	21.29	106.064	16.01	0.
4	13.06	0.323	3.21	11.53	66.889	10.10	0.
5	14.87	0.324	4.48	16.09	96.918	14.63	0.
6	20.97	0.458	3.51	12.61	123.063	18.58	0.
7	24.25	0.422	6.49	23.34	181.949	27.47	0.
7	27.00	0.354	27.75	99.73	660.113	99.67	0.

This report has been created by IC Net
 METROHM LTD

Report date: 10/15/2018 12:46:02 PM
Printed by: wet

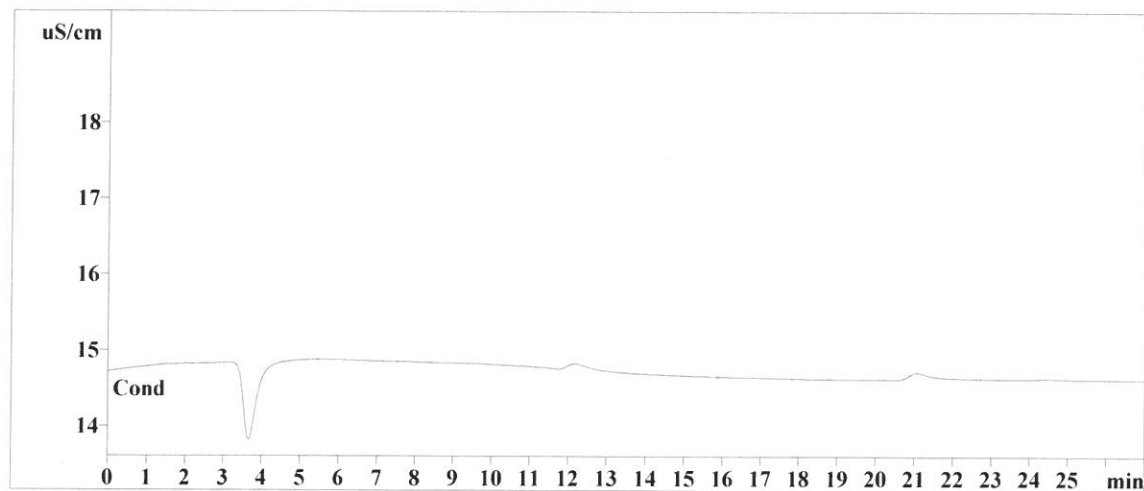
Ident: CCB
Analysis from: 10/11/2018 2:44:06 PM
File: _2018-10-11_

Last save: 10/15/2018 12:46:02 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64470

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 3
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:47:05 PM
Printed by: wet

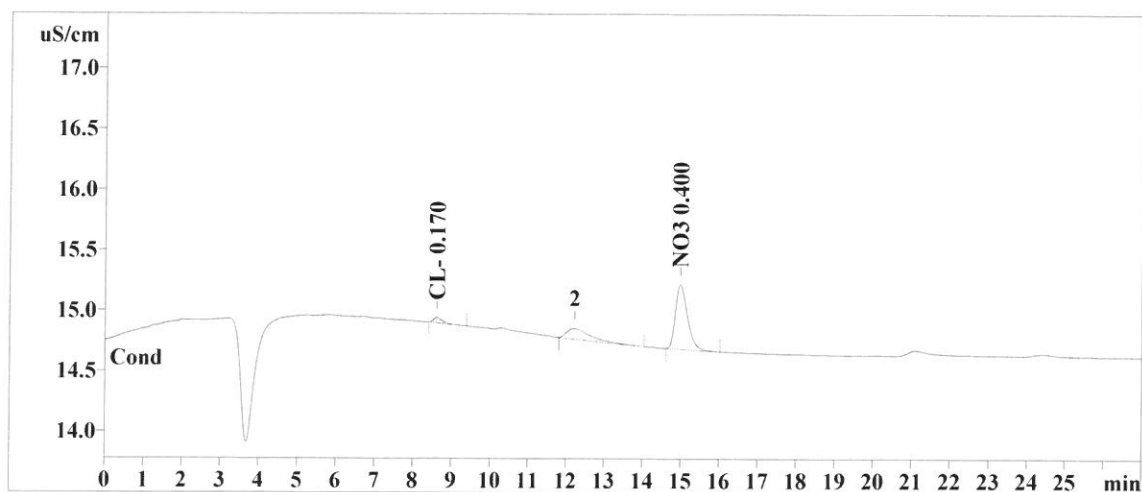
Ident: J5452-01
Analysis from: 10/11/2018 3:14:01 PM
File: _2018-10-11_

Last save: 10/15/2018 12:47:06 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64471

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 26
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.61	0.258	0.05	6.84	0.789	4.84	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	14.98	0.333	0.53	79.71	11.713	71.83	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	27.00	0.084	0.58	86.55	12.502	76.66	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:49:10 PM
Printed by: wet

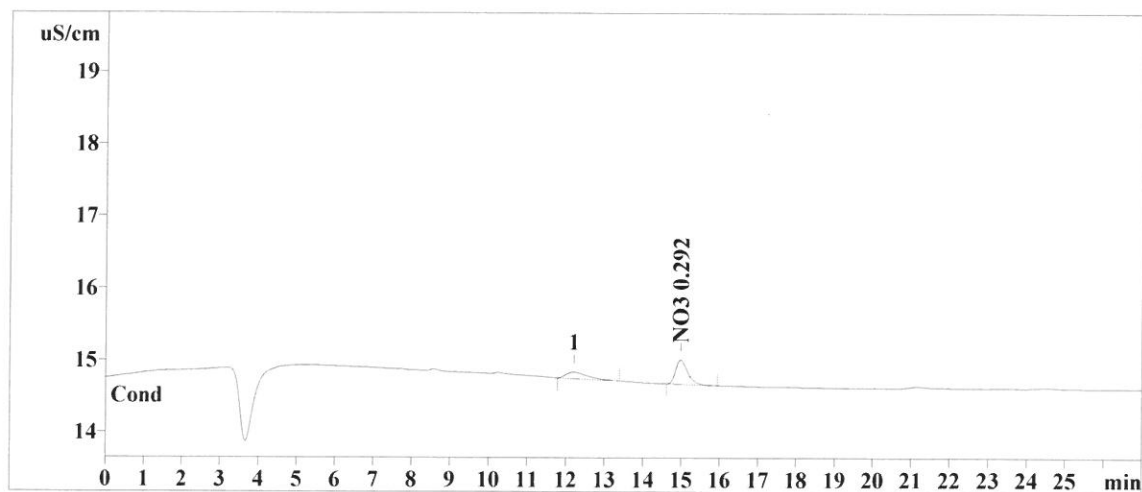
Ident: J5452-02
Analysis from: 10/11/2018 3:43:56 PM
File: _2018-10-11_

Last save: 10/15/2018 12:49:10 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64472

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 27
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	0.00	0.000	0.00	0.00	0.000	0.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	14.98	0.335	0.33	78.39	7.387	67.23	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	27.00	0.048	0.33	78.39	7.387	67.23	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:49:31 PM
Printed by: wet

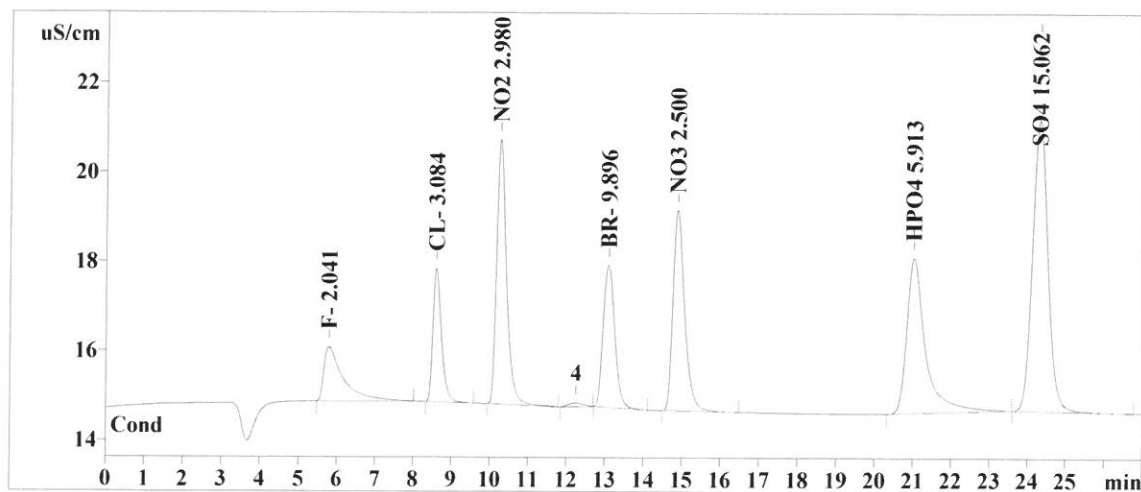
Ident: CCV
Analysis from: 10/11/2018 4:13:51 PM
File: _2018-10-11_

Last save: 10/11/2018 4:40:40 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64473

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 2
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.79	0.465	1.21	4.34	43.015	6.48	0.
2	8.59	0.238	2.98	10.70	47.249	7.12	0.
3	10.26	0.265	5.92	21.28	106.291	16.02	0.
4	13.08	0.325	3.17	11.40	66.181	9.98	0.
5	14.87	0.321	4.49	16.12	96.327	14.52	0.
6	21.01	0.453	3.47	12.47	119.825	18.06	0.
7	24.29	0.421	6.51	23.39	182.164	27.46	0.
7	27.00	0.356	27.75	99.69	661.051	99.66	0.

This report has been created by IC Net
METROHM LTD

Report date: 10/15/2018 12:49:54 PM
Printed by: wet

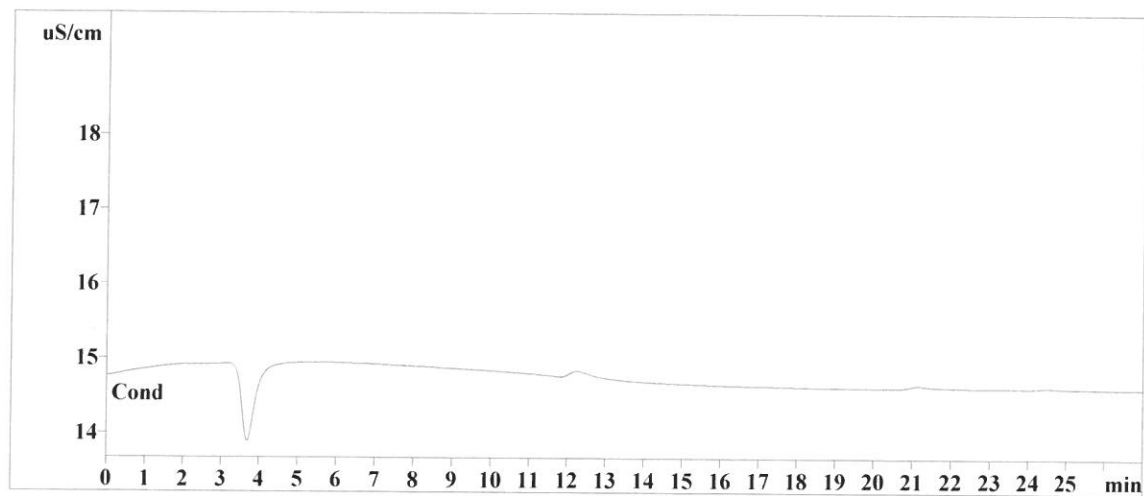
Ident: CCB
Analysis from: 10/11/2018 4:43:46 PM
File: _2018-10-11_

Last save: 10/15/2018 12:49:56 PM

Method: ANIONS 10-09-18.mtw
Run operator: wet
Analysis number: 64474

Last save: 10/9/2018 4:37:34 PM

SAMPLE:
: AK/AP
Vial number: 3
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD