

IC-1

M300.0

9/1/17 AK

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
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-22_	8/22/17 16:40
STD2	0.1640	0.2260	0.2730	0.8540	0.2250	0.7250	1.2880	2017-08-22_	8/22/17 17:10
STD3	0.4020	0.6330	0.6530	2.1120	0.5460	1.1440	3.3170	2017-08-22_	8/22/17 17:40
STD4	0.7820	1.1880	1.1930	3.9480	1.0000	1.9140	5.8630	2017-08-22_	8/22/17 18:10
STD5	1.9260	2.8800	2.8100	9.4910	2.3510	4.3770	14.0660	2017-08-22_	8/22/17 18:40
STD6	3.9870	5.9120	5.8300	19.6400	4.8250	9.6330	29.5430	2017-08-22_	8/22/17 19:10
STD7	5.0390	7.6110	7.6910	25.4540	6.4280	12.9570	38.1730	2017-08-22_	8/22/17 19:39
ICV	2.0280	2.9630	2.9510	9.8060	2.4030	4.0830	14.6510	2017-08-22_	8/22/17 21:09
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-22_	8/22/17 21:39
CCV	2.1290	3.0450	2.9770	10.6720	2.4350	10.0720	14.2710	2017-08-31_	8/31/17 9:12
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-31_	8/31/17 9:46
LB89809BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-31_	8/31/17 10:38
LB89809BSW	2.0490	2.9280	2.9460	10.5610	2.3830	10.2160	14.0690	2017-08-31_	8/31/17 11:07
I5057-01	0.0000	13.4510	0.0000	3.7830	0.0000	0.0000	161.1910	2017-08-31_	8/31/17 11:35
I5057-04	0.0000	107.1060	0.0000	2.8860	0.0000	0.0000	106.9760	2017-08-31_	8/31/17 12:04
I5057-05	0.0000	722.8120	0.0000	3.0650	2.7180	0.0000	117.7440	2017-08-31_	8/31/17 12:33
I5057-01DUP	0.0000	13.1950	0.0000	3.8840	0.0000	0.0000	159.0690	2017-08-31_	8/31/17 13:02
I5057-02MS	2.5140	16.5630	2.9760	9.7040	2.5480	8.4350	162.9650	2017-08-31_	8/31/17 13:31
I5057-03MSD	2.5140	16.4990	2.8620	9.4100	2.4550	5.1870	162.9270	2017-08-31_	8/31/17 14:00
CCV	2.0570	2.9780	2.9980	10.6680	2.4320	4.6450	14.4170	2017-08-31_	8/31/17 14:29
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-31_	8/31/17 15:05
I5057-01DLX5	0.0000	2.4960	0.0000	0.0000	0.0000	0.0000	26.2110	2017-08-31_	8/31/17 15:34
I5057-04DLX5	0.0000	17.2460	0.0000	0.0000	0.0000	0.0000	18.0140	2017-08-31_	8/31/17 16:03
I5057-04DLX20	0.0000	3.9670	0.0000	0.0000	0.0000	0.0000	4.7530	2017-08-31_	8/31/17 16:32
I5057-05DLX5	0.0000	130.6360	0.0000	0.0000	0.6030	0.0000	20.1040	2017-08-31_	8/31/17 17:01
I5057-05DLX100	0.0000	4.8240	0.0000	0.0000	0.0000	0.0000	1.5010	2017-08-31_	8/31/17 17:30
CCV	2.0840	2.9610	3.0190	10.6770	2.4340	8.2550	14.4020	2017-08-31_	8/31/17 17:58
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-08-31_	8/31/17 18:27

CALIBRATION OF COMPONENT F-

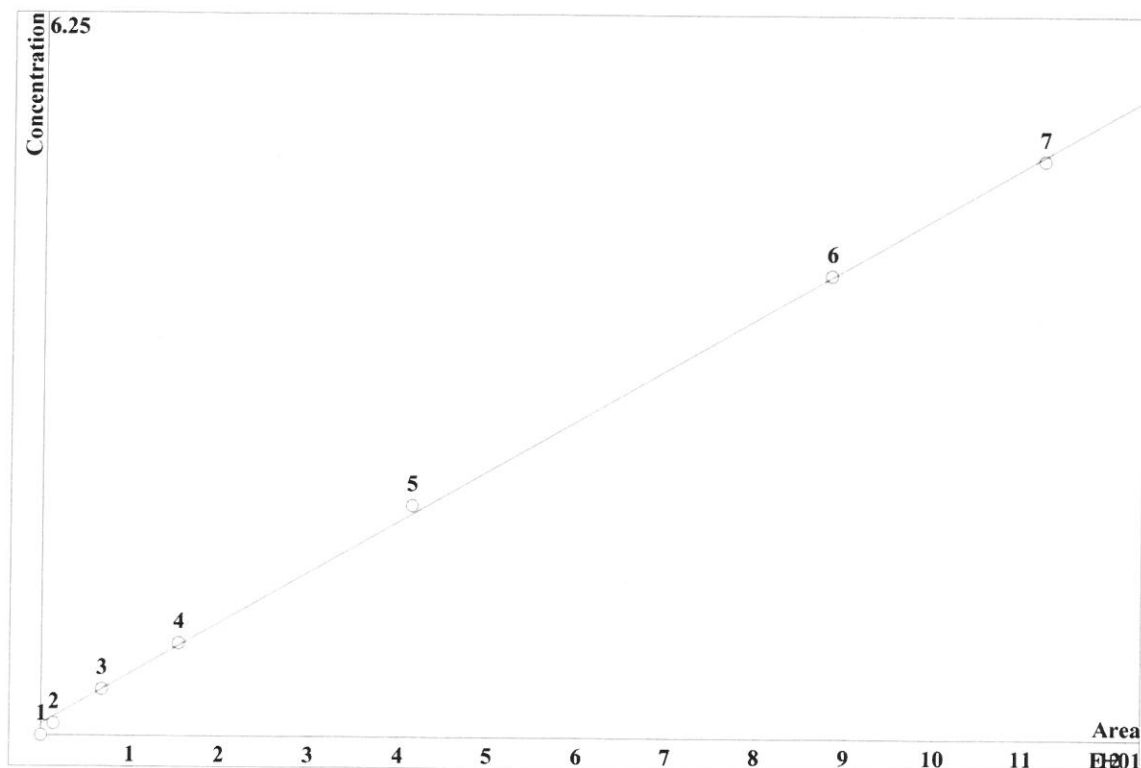
Method: ANIONS 08-22-17.mtw
 Equation: $Q = 0.880309 \cdot A + 2.04056$
 RSD: 2.633 %
 Correlation coefficient: 0.999717

IC-1 cal

8-22-17

AK

8/23/17



K3 = 0 K2 = 0 K1 = 0.880309 K0 = 2.04056

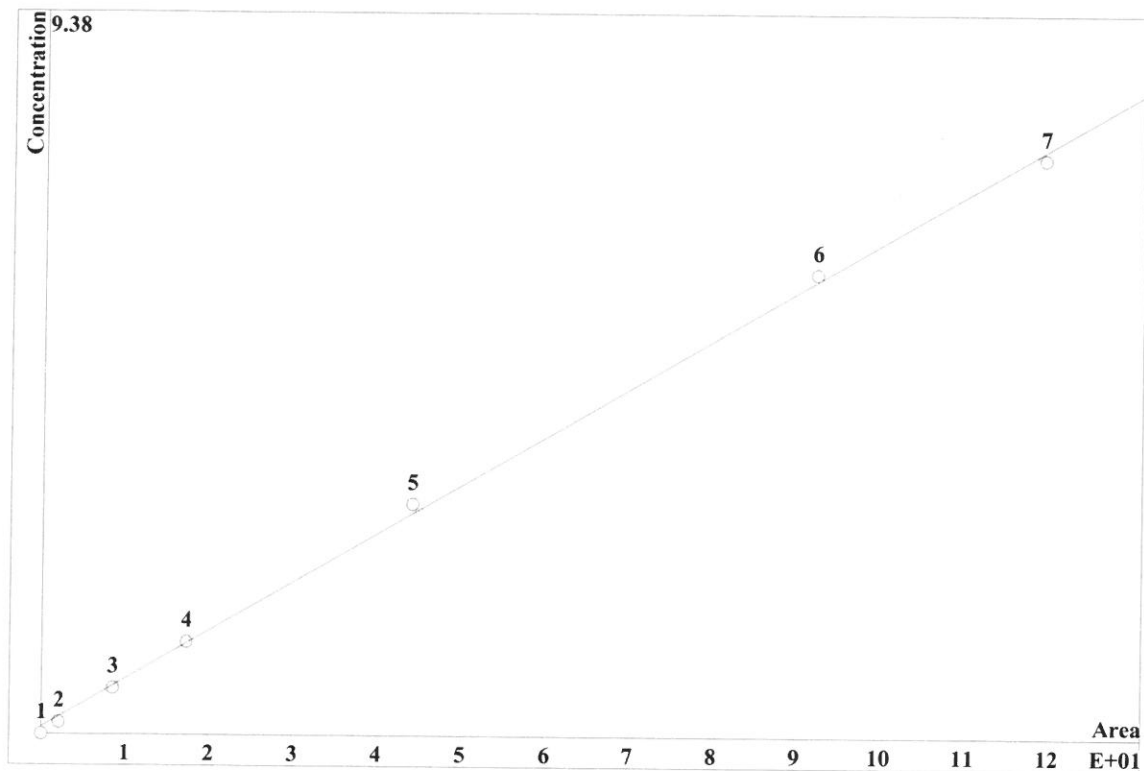
Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
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1	0	0	0	0	0	No	
2	0.06554	1.415	0.1	20	6.136	Yes	
3	0.3016	6.806	0.4	20	6.136	Yes	
4	0.6729	15.45	0.8	20	6.136	Yes	
5	1.835	41.43	2	20	6.136	Yes	
6	4.022	88.27	4	20	6.136	Yes	
7	5.287	112.2	5	20	6.136	Yes	

CALIBRATION OF COMPONENT CL-

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 1.26043 \cdot A + 1.90761$
 RSD: 3.318 %
 Correlation coefficient: 0.999551



K3 = 0 K2 = 0 K1 = 1.26043 K0 = 1.90761

Base: Area

Ref.channel: Cond

ISTD:

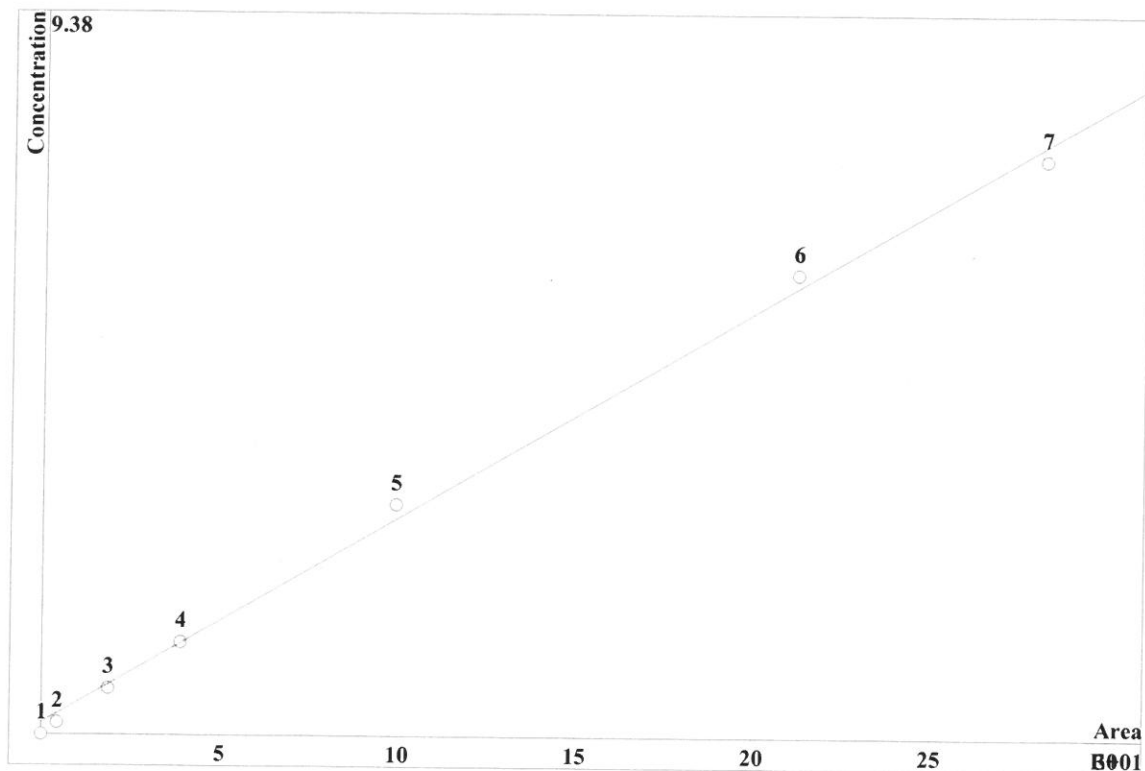
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.1025	2.08	0.15	20	9.2	Yes	
3	0.418	8.527	0.6	20	9.2	Yes	
4	0.8488	17.34	1.2	20	9.2	Yes	
5	2.148	44.18	3	20	9.2	Yes	
6	4.511	92.29	6	20	9.2	Yes	
7	5.863	119.3	7.5	20	9.2	Yes	

CALIBRATION OF COMPONENT NO2

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 0.535093 \cdot A + 3.08355$
 RSD: 5.618 %
 Correlation coefficient: 0.998711



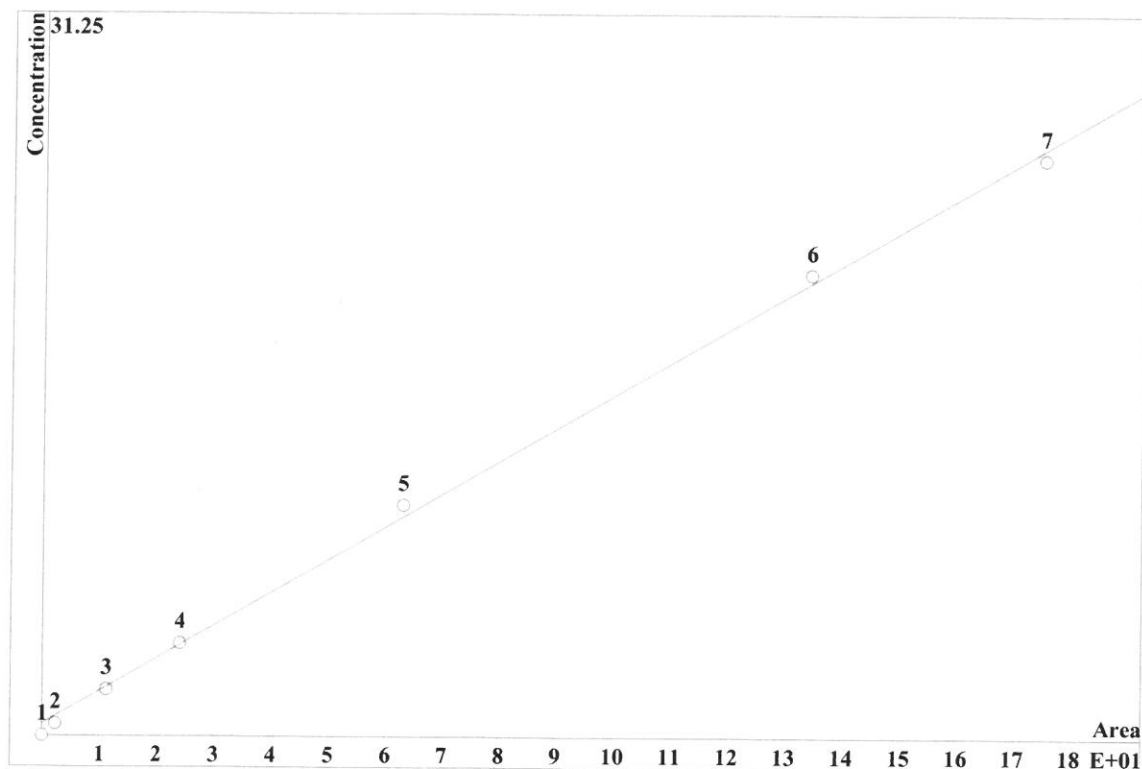
K3 = 0 K2 = 0 K1 = 0.535093 K0 = 3.08355

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	0.2	4.453	0.15	20	10.94	Yes	
3	0.8292	18.64	0.6	20	10.94	Yes	
4	1.73	38.84	1.2	20	10.94	Yes	
5	4.384	99.28	3	20	10.94	Yes	
6	9.309	212.1	6	20	10.94	Yes	
7	12.13	281.7	7.5	20	10.94	Yes	

CALIBRATION OF COMPONENT BR-

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 2.84686 \cdot A + 10.5239$
 RSD: 4.185 %
 Correlation coefficient: 0.999285



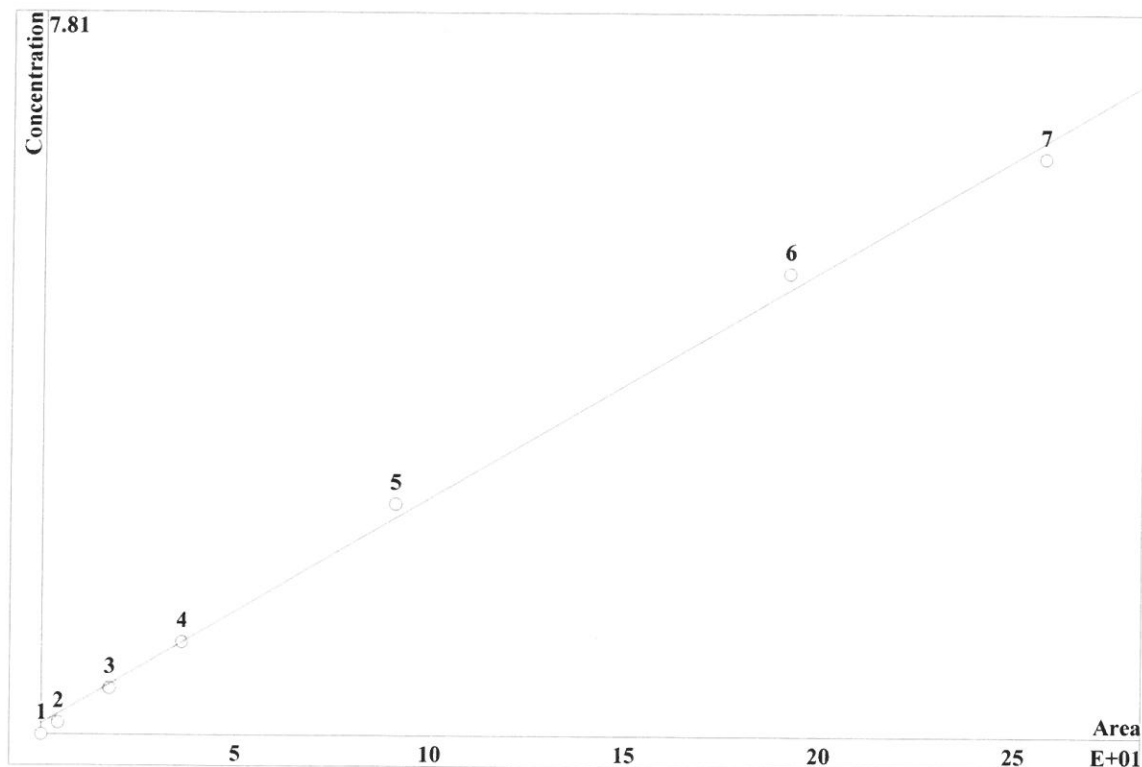
K3 = 0 K2 = 0 K1 = 2.84686 K0 = 10.5239

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	0.07379	2.305	0.5	20	13.79	Yes	
3	0.4035	11.14	2	20	13.79	Yes	
4	0.8474	24.04	4	20	13.79	Yes	
5	2.143	62.98	10	20	13.79	Yes	
6	4.402	134.3	20	20	13.79	Yes	
7	5.639	175.1	25	20	13.79	Yes	

CALIBRATION OF COMPONENT NO3

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 0.490459 \cdot A + 2.37019$
 RSD: 6.066 %
 Correlation coefficient: 0.998497



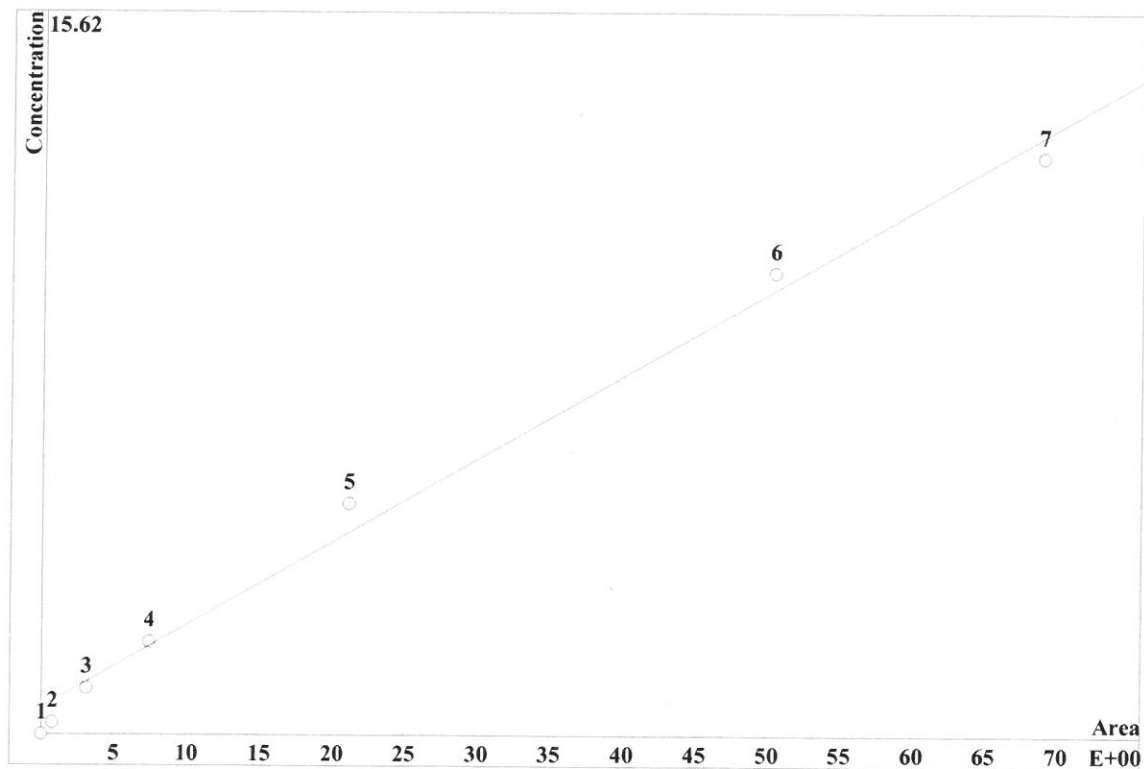
K3 = 0 K2 = 0 K1 = 0.490459 K0 = 2.37019

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	0.1447	4.335	0.125	20	15.74		Yes
3	0.5805	17.44	0.5	20	15.74		Yes
4	1.182	35.93	1	20	15.74		Yes
5	2.993	91.03	2.5	20	15.74		Yes
6	6.326	191.9	5	20	15.74		Yes
7	8.221	257.3	6.25	20	15.74		Yes

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 3.58923 \cdot A + 11.7529$
 RSD: 9.687 %
 Correlation coefficient: 0.996163



K3 = 0 K2 = 0 K1 = 3.58923 K0 = 11.7529

Base: Area

Ref.channel: Cond

ISTD:

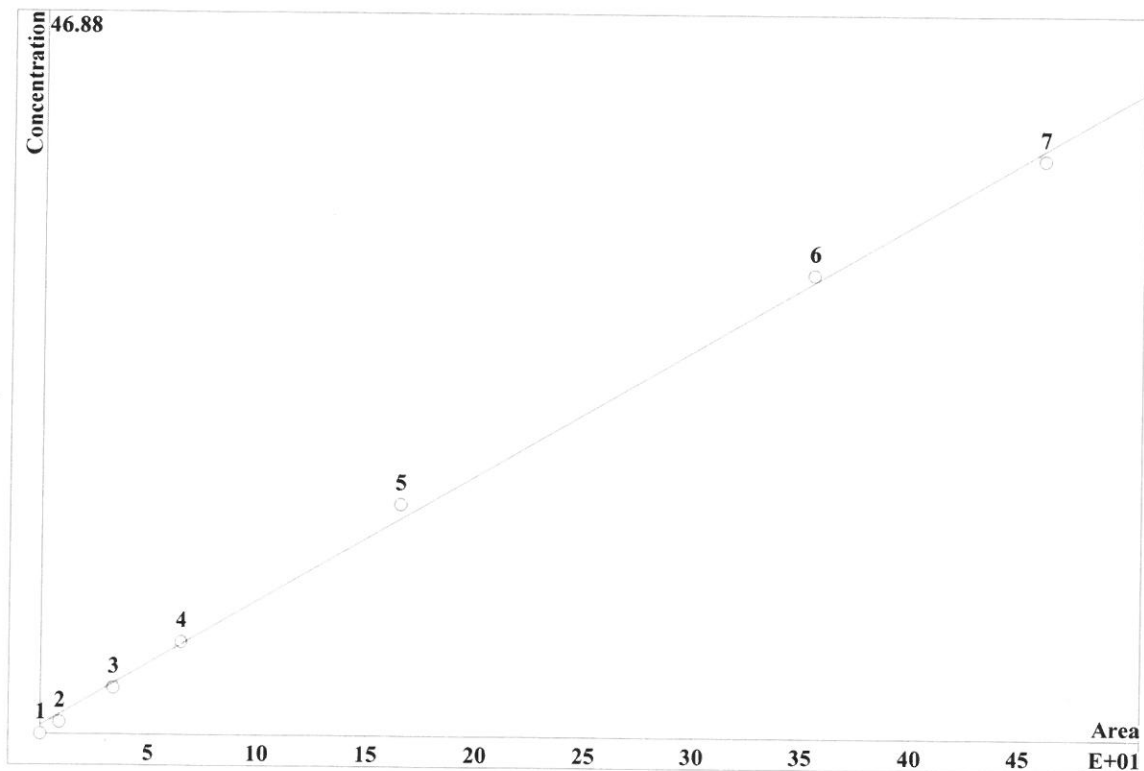
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.01136	0.7666	0.25	20	23.59		Yes
3	0.04437	3.101	1	20	23.59		Yes
4	0.1085	7.391	2	20	23.59		Yes
5	0.307	21.11	5	20	23.59		Yes
6	0.7283	50.4	10	20	23.59		Yes
7	1.002	68.92	12.5	20	23.59		Yes

CALIBRATION OF COMPONENT SO4

Method: ANIONS 08-22-17.mtw
 Equation: $Q = 1.63477 \cdot A + 11.349$
 RSD: 4.533 %
 Correlation coefficient: 0.999161



K3 = 0 K2 = 0 K1 = 1.63477 K0 = 11.349

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	0.1957	8.817	0.75	20	25.51		Yes
3	0.756	33.63	3	20	25.51		Yes
4	1.536	64.79	6	20	25.51		Yes
5	3.946	165.1	15	20	25.51		Yes
6	8.538	354.5	30	20	25.51		Yes
7	11.22	460.1	37.5	20	25.51		Yes

Report date: 8/23/2017 9:58:41 AM
Printed by: wet

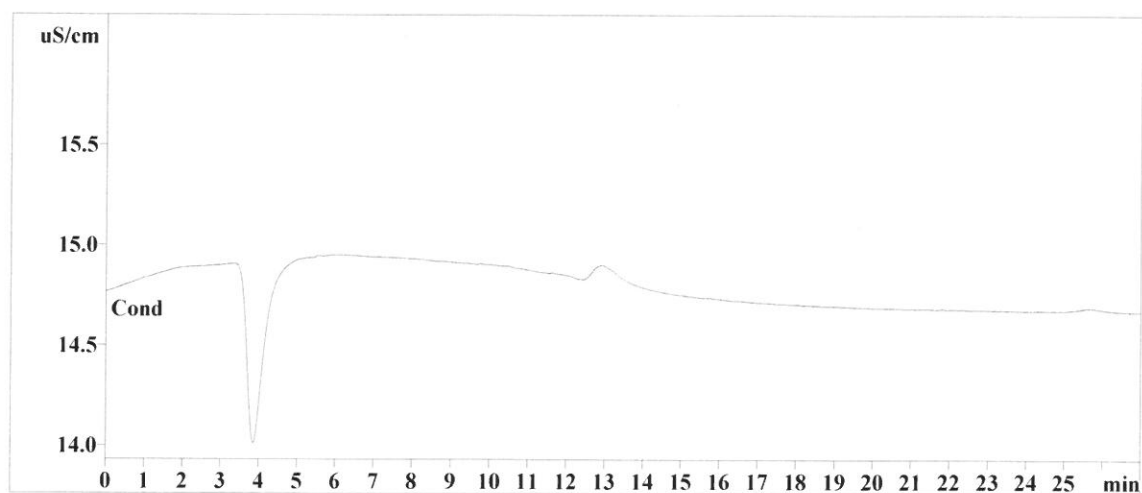
Ident: STD1
Analysis from: 8/22/2017 4:40:25 PM
File: _2017-08-22_

Last save: 8/23/2017 9:44:34 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58832

Last save: 8/23/2017 9:41:24 AM

SAMPLE:
: AP/AK
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: 8/23/2017 9:59:16 AM
Printed by: wet

Ident: STD2
Analysis from: 8/22/2017 5:10:20 PM
File: _2017-08-22_

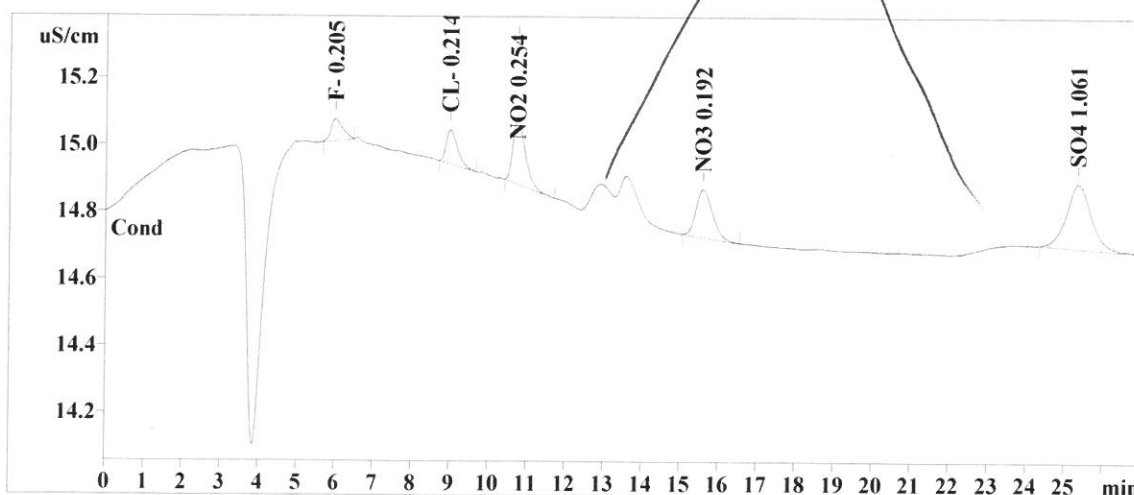
Last save: 8/23/2017 9:59:06 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58833

Last save: 8/23/2017 9:41:24 AM

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

before peaks were not
integrated by software
AK
8/23/17



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.98	0.335	0.06	9.17	1.415	6.71	0.
2	8.98	0.309	0.10	14.37	2.080	9.86	0.
3	10.74	0.335	0.20	28.20	4.453	21.10	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	15.59	0.464	0.14	20.35	4.335	20.55	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.35	0.664	0.19	27.42	8.817	41.79	0.
7	27.00	0.301	0.70	99.51	21.100	100.00	0.

This report has been created by IC Net
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Report date: 8/23/2017 10:00:29 AM
Printed by: wet

Ident: STD2
Analysis from: 8/22/2017 5:10:20 PM
File: _2017-08-22_

Last save: 8/23/2017 10:00:24 AM

Manual peaks!

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58833

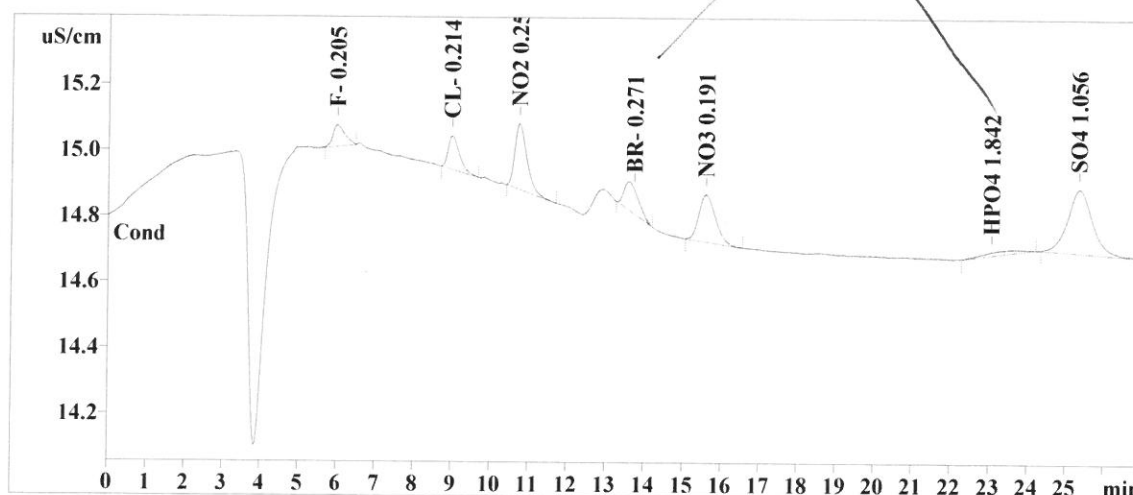
Last save: 8/23/2017 10:00:30 AM

SAMPLE:

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

After

712
8/23/17



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.98	0.335	0.06	8.18	1.415	5.86	0.
2	8.98	0.309	0.10	12.83	2.080	8.60	0.
3	10.74	0.335	0.20	25.18	4.453	18.42	0.
4	13.73	0.478	0.07	9.25	2.305	9.54	0.
5	15.59	0.464	0.14	18.16	4.335	17.93	0.
6	23.05	1.133	0.01	1.43	0.767	3.17	0.
7	25.35	0.664	0.19	24.48	8.817	36.48	0.
7	27.00	0.531	0.79	99.51	24.172	100.00	0.

This report has been created by IC Net
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Report date: 8/23/2017 10:00:48 AM
Printed by: wet

Ident: STD3
Analysis from: 8/22/2017 5:40:16 PM
File: _2017-08-22_

Last save: 8/23/2017 10:00:44 AM

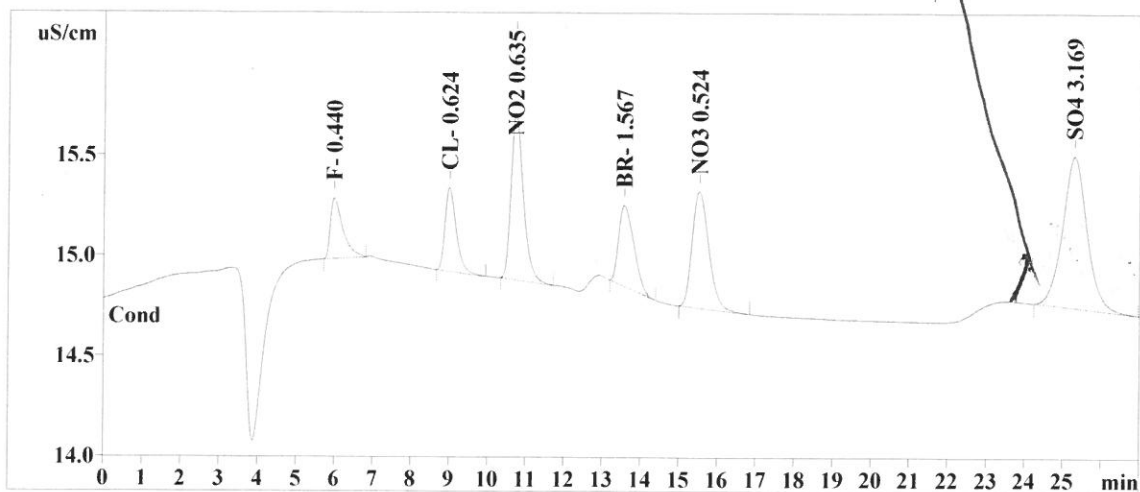
Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58834

Last save: 8/23/2017 9:41:24 AM

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

*Before Peak was not integrated
by software*

*AKC
8/23/17*



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.98	0.328	0.30	9.15	6.806	7.08	0.
2	8.99	0.305	0.42	12.69	8.527	8.87	0.
3	10.72	0.335	0.83	25.21	18.637	19.38	0.
4	13.57	0.444	0.40	12.25	11.144	11.59	0.
5	15.51	0.459	0.58	17.65	17.439	18.13	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.29	0.658	0.76	22.96	33.633	34.97	0.
7	27.00	0.361	3.29	99.90	96.187	100.00	0.

This report has been created by IC Net
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Report date: 8/23/2017 10:01:38 AM
Printed by: wet

Ident: STD3
Analysis from: 8/22/2017 5:40:16 PM
File: _2017-08-22_

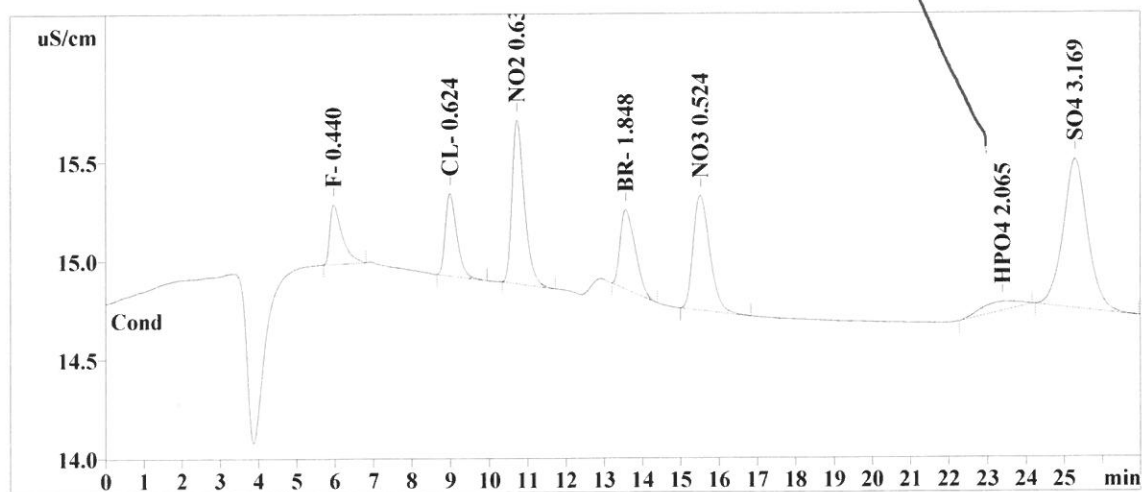
Last save: 8/23/2017 10:01:36 AM

Manual peaks!
Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58834

Last save: 8/23/2017 10:01:38 AM

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

after 8/23/17



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.98	0.328	0.30	9.03	6.806	6.86	0.
2	8.99	0.305	0.42	12.52	8.527	8.59	0.
3	10.72	0.335	0.83	24.87	18.637	18.77	0.
4	13.57	0.444	0.40	12.08	11.144	11.22	0.
5	15.51	0.459	0.58	17.41	17.439	17.56	0.
6	23.37	1.146	0.05	1.36	3.101	3.12	0.
7	25.29	0.658	0.76	22.66	33.633	33.87	0.
7	27.00	0.525	3.33	99.93	99.288	100.00	0.

This report has been created by IC Net
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Report date: 8/23/2017 10:02:14 AM
 Printed by: wet

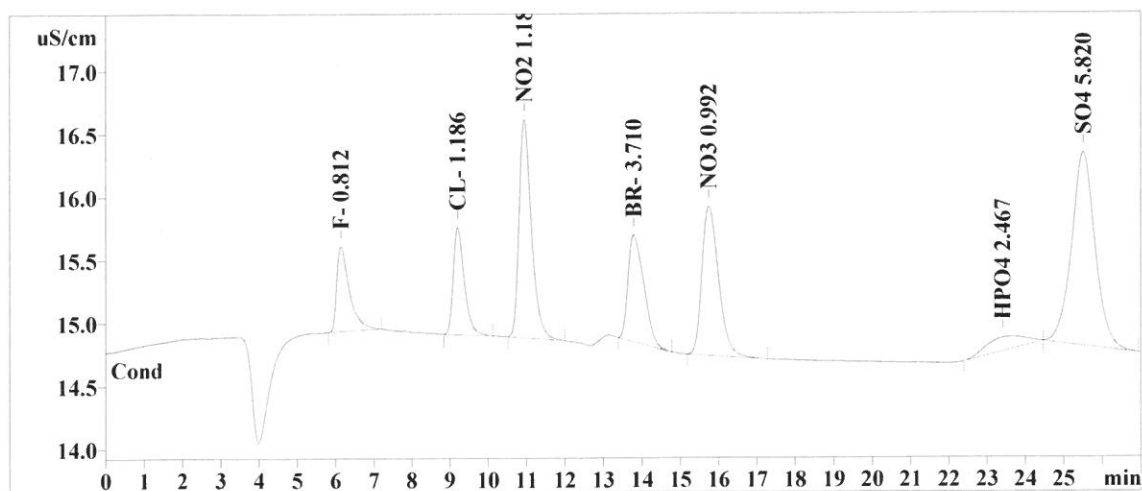
Ident: STD4
 Analysis from: 8/22/2017 6:10:11 PM
 File: _2017-08-22_

Last save: 8/23/2017 10:02:12 AM

Method: ANIONS 08-22-17.mtw
 Run operator: wet
 Analysis number: 58835

Last save: 8/23/2017 10:02:14 AM

SAMPLE:
 : AP/AK
 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	6.14	0.326	0.67	9.71	15.449	7.58	0.
2	9.20	0.305	0.85	12.25	17.345	8.51	0.
3	10.94	0.335	1.73	24.98	38.837	19.06	0.
4	13.79	0.454	0.85	12.23	24.036	11.80	0.
5	15.74	0.464	1.18	17.06	35.927	17.63	0.
6	23.41	1.172	0.11	1.55	7.391	3.63	0.
7	25.51	0.625	1.53	22.17	64.786	31.79	0.
7	27.00	0.526	6.92	99.95	203.771	100.00	0.

This report has been created by IC Net
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Report date: 8/29/2017 8:44:57 AM
Printed by: wet

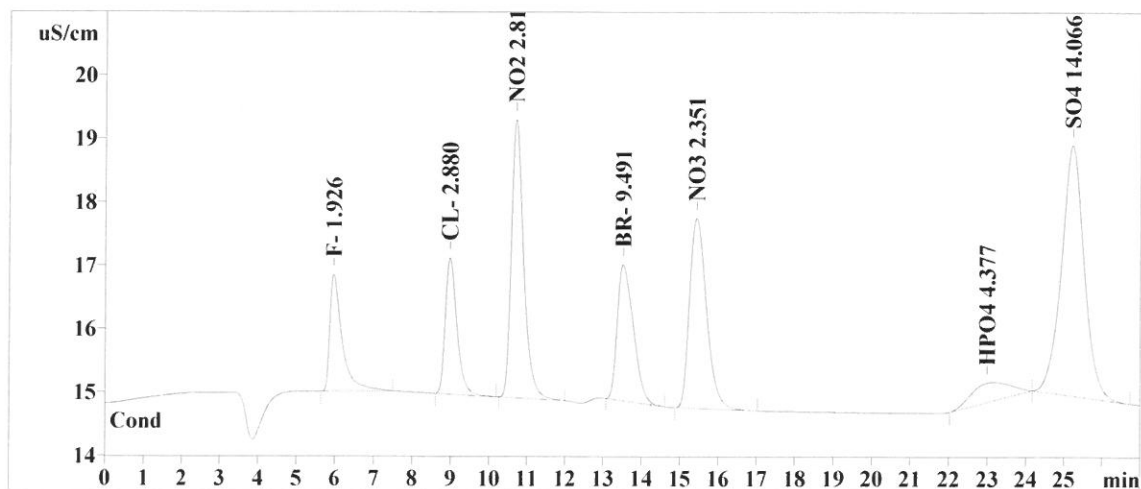
Ident: STD5
Analysis from: 8/22/2017 6:40:05 PM
File: _2017-08-22_

Last save: 8/29/2017 8:44:50 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58836

Last save: 8/23/2017 10:03:12 AM

SAMPLE:
: AP/AK
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	5.96	0.311	1.83	10.33	41.434	7.89	0.
2	8.97	0.304	2.15	12.09	44.181	8.41	0.
3	10.70	0.335	4.38	24.69	99.281	18.90	0.
4	13.51	0.469	2.14	12.07	62.983	11.99	0.
5	15.43	0.465	2.99	16.85	91.029	17.33	0.
6	22.98	1.161	0.31	1.72	21.115	4.02	0.
7	25.21	0.620	3.95	22.22	165.147	31.45	0.
7	27.00	0.524	17.75	99.98	525.170	100.00	0.

This report has been created by IC Net
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Report date: 8/23/2017 10:04:33 AM
Printed by: wet

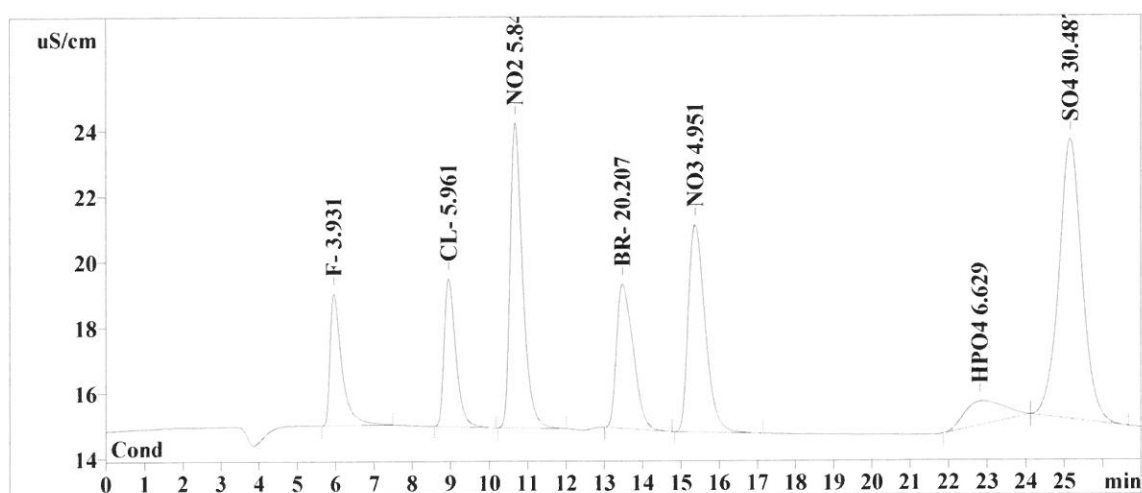
Ident: STD6
Analysis from: 8/22/2017 7:10:01 PM
File: _2017-08-22_

Last save: 8/23/2017 10:04:32 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58837

Last save: 8/23/2017 10:04:34 AM

SAMPLE:
: AP/AK
Vial number: 7
Volume: 20.0 μ L
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	5.96	0.309	4.02	10.63	88.271	7.85	0.
2	8.95	0.302	4.51	11.92	92.290	8.21	0.
3	10.67	0.339	9.31	24.60	212.128	18.88	0.
4	13.47	0.489	4.40	11.63	134.279	11.95	0.
5	15.37	0.463	6.33	16.72	191.936	17.08	0.
6	22.80	1.152	0.73	1.92	50.401	4.48	0.
7	25.16	0.614	8.54	22.56	354.487	31.54	0.
7	27.00	0.524	37.83	99.99	1123.791	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/23/2017 10:05:22 AM
Printed by: wet

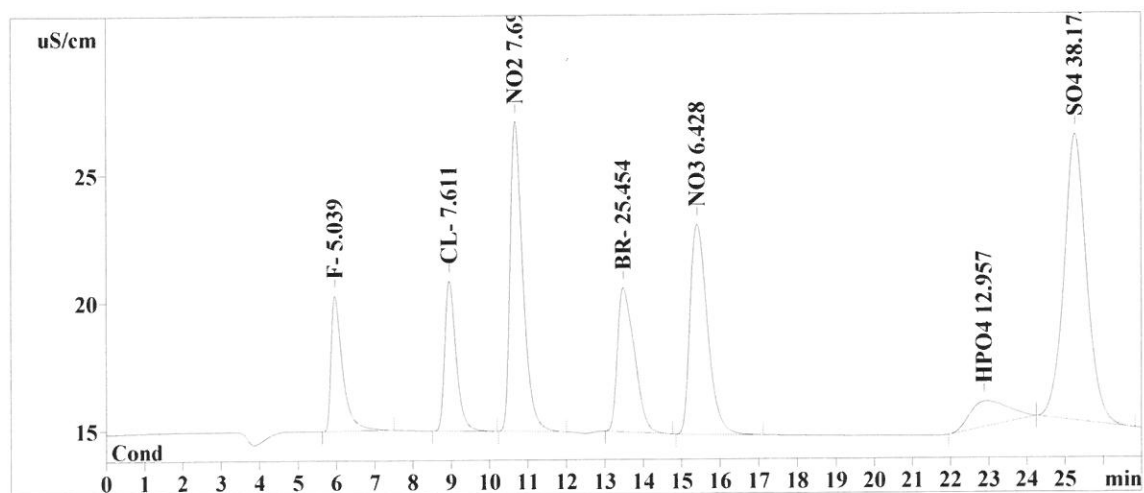
Ident: STD7
Analysis from: 8/22/2017 7:39:56 PM
File: _2017-08-22_

Last save: 8/23/2017 10:05:20 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58838

Last save: 8/23/2017 10:05:22 AM

SAMPLE:
: AK/AP
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	5.96	0.299	5.29	10.71	112.164	7.61	0.
2	8.95	0.300	5.86	11.88	119.254	8.09	0.
3	10.68	0.346	12.13	24.57	281.688	19.10	0.
4	13.48	0.500	5.64	11.43	175.128	11.88	0.
5	15.41	0.478	8.22	16.66	257.302	17.45	0.
6	22.88	1.139	1.00	2.03	68.925	4.67	0.
7	25.27	0.607	11.22	22.73	460.078	31.20	0.
7	27.00	0.524	49.35	100.00	1474.539	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/25/2017 12:51:33 PM
Printed by: wet

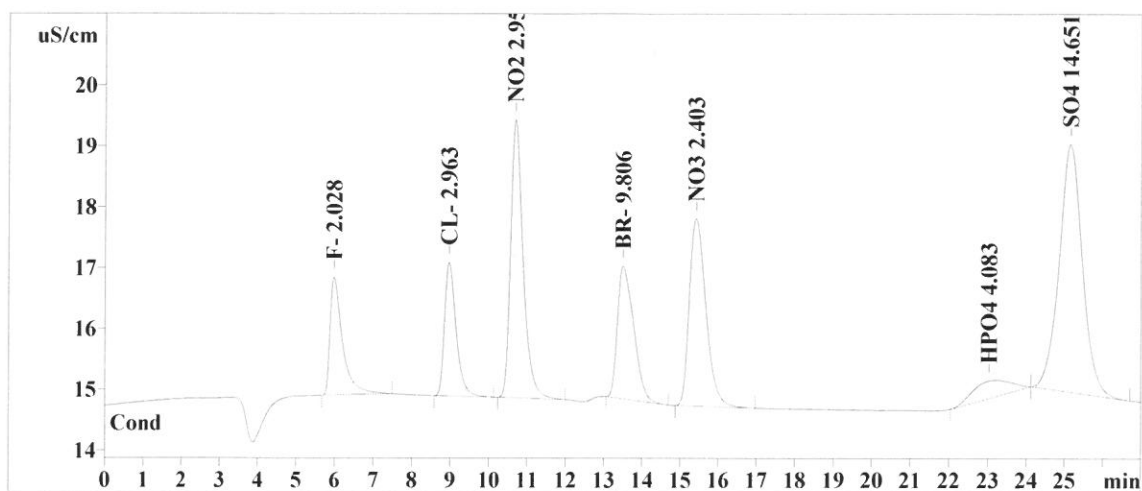
Ident: ICV
Analysis from: 8/22/2017 9:09:41 PM
File: _2017-08-22_

Last save: 8/25/2017 12:51:24 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58841

Last save: 8/23/2017 10:03:12 AM

SAMPLE:
: AK/AP
Vial number: 11
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	5.98	0.315	1.93	10.54	43.765	8.05	0.
2	8.96	0.306	2.19	11.99	45.499	8.36	0.
3	10.68	0.338	4.57	24.95	104.543	19.22	0.
4	13.50	0.481	2.17	11.88	65.194	11.99	0.
5	15.41	0.461	3.08	16.82	93.142	17.12	0.
6	23.03	1.142	0.29	1.58	19.476	3.58	0.
7	25.15	0.628	4.07	22.23	172.306	31.68	0.
7	27.00	0.525	18.30	99.99	543.926	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/25/2017 12:51:40 PM
Printed by: wet

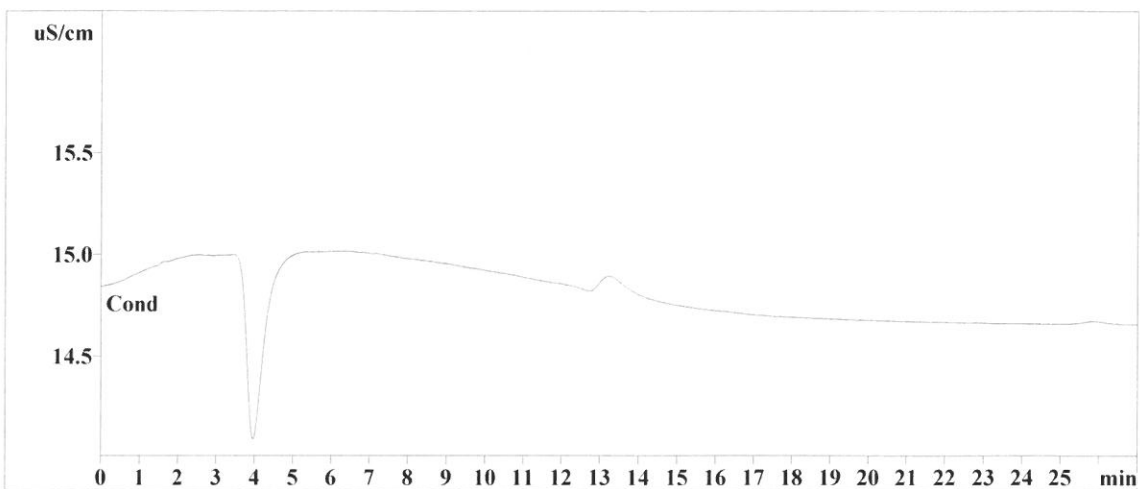
Ident: ICB
Analysis from: 8/22/2017 9:39:36 PM
File: _2017-08-22_

Last save: 8/25/2017 12:51:24 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58842

Last save: 8/23/2017 10:03:12 AM

SAMPLE:
: AK/AP
Vial number: 12
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: 8/31/2017 3:39:26 PM
Printed by: wet

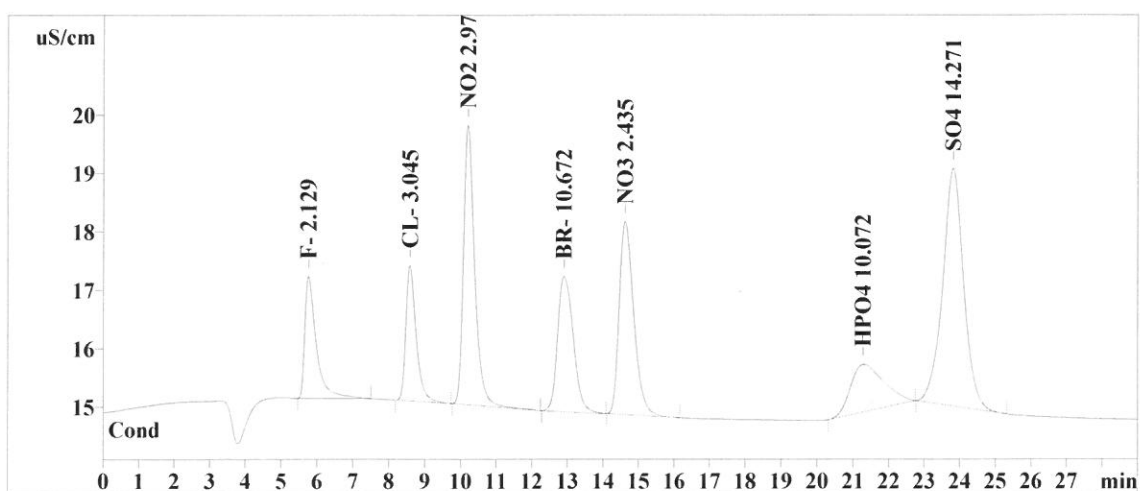
Ident: CCV
Analysis from: 8/31/2017 9:12:20 AM
File: _2017-08-31_

Last save: 8/31/2017 9:43:24 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58898

Last save: 8/29/2017 12:23:02 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	5.76	0.302	2.08	10.59	46.043	7.88	0.
2	8.58	0.297	2.31	11.76	46.804	8.01	0.
3	10.20	0.322	4.78	24.28	105.500	18.05	0.
4	12.90	0.481	2.31	11.74	71.277	12.19	0.
5	14.62	0.436	3.30	16.77	94.450	16.16	0.
6	21.27	1.020	0.82	4.17	52.849	9.04	0.
7	23.81	0.607	4.07	20.67	167.648	28.68	0.
7	29.00	0.495	19.68	99.98	584.571	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:40:19 PM
Printed by: wet

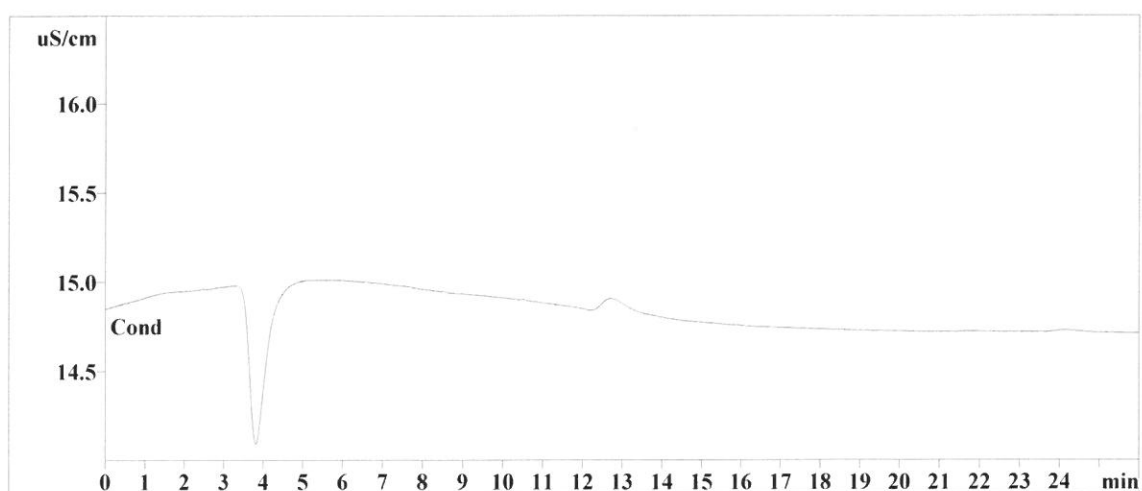
Ident: CCB
Analysis from: 8/31/2017 9:46:48 AM
File: _2017-08-31_

Last save: 8/31/2017 3:40:16 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58899

Last save: 8/31/2017 9:44:00 AM

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: 8/31/2017 3:40:55 PM
Printed by: wet

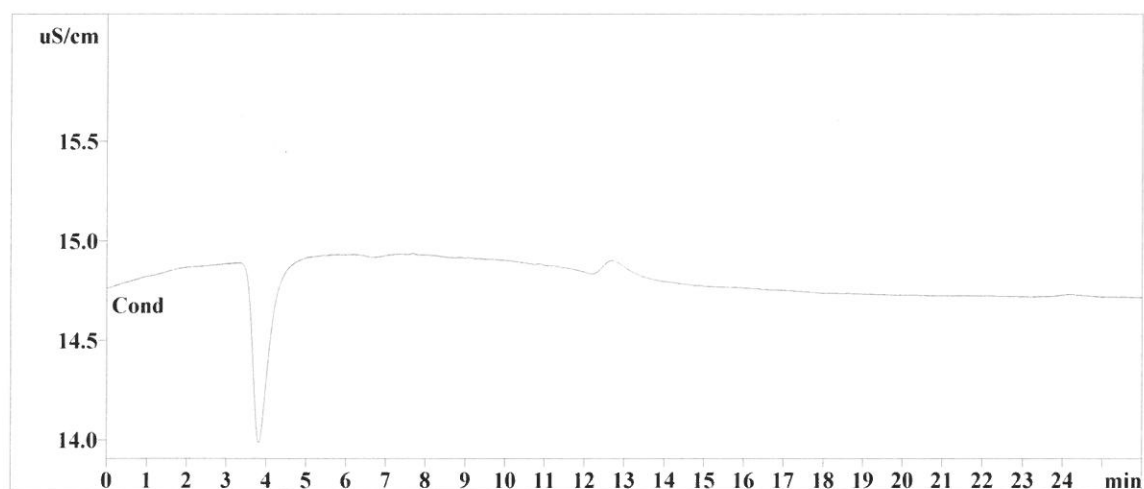
Ident: LB89809BLW
Analysis from: 8/31/2017 10:38:07 AM
File: _2017-08-31_

Last save: 8/31/2017 12:52:42 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58902

Last save: 8/31/2017 9:44:00 AM

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: 8/31/2017 3:41:12 PM
Printed by: wet

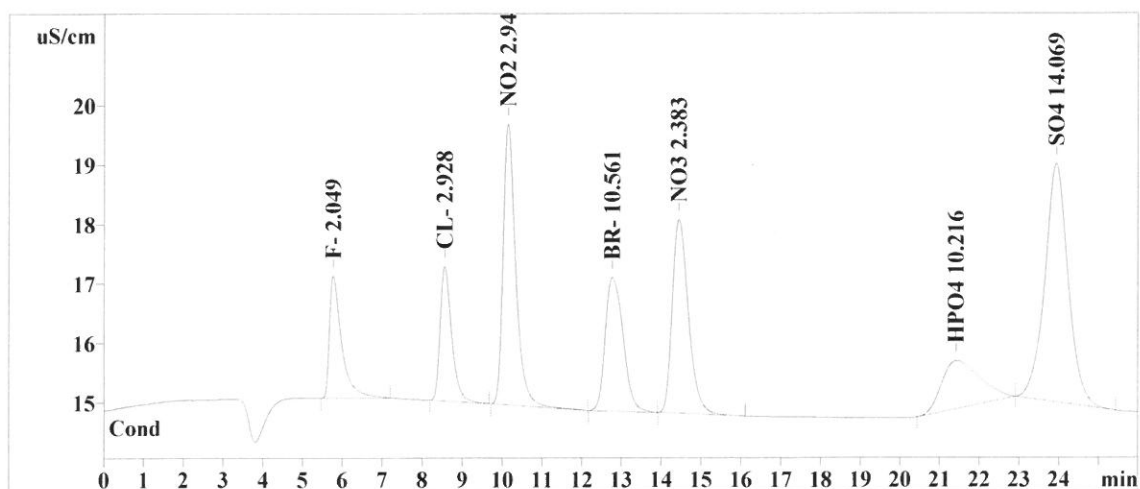
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Analysis from: 8/31/2017 11:07:02 AM
File: _2017-08-31_

Last save: 8/31/2017 12:52:42 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58903

Last save: 8/31/2017 9:44:00 AM

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	0.300	2.05	10.60	44.235	7.69	0.
2	8.55	0.293	2.26	11.68	44.949	7.81	0.
3	10.14	0.321	4.73	24.39	104.340	18.14	0.
4	12.77	0.492	2.25	11.60	70.501	12.26	0.
5	14.45	0.431	3.26	16.82	92.356	16.06	0.
6	21.41	1.056	0.81	4.18	53.651	9.33	0.
7	23.94	0.604	4.02	20.71	165.177	28.72	0.
7	26.00	0.500	19.39	99.99	575.210	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:42:19 PM
Printed by: wet

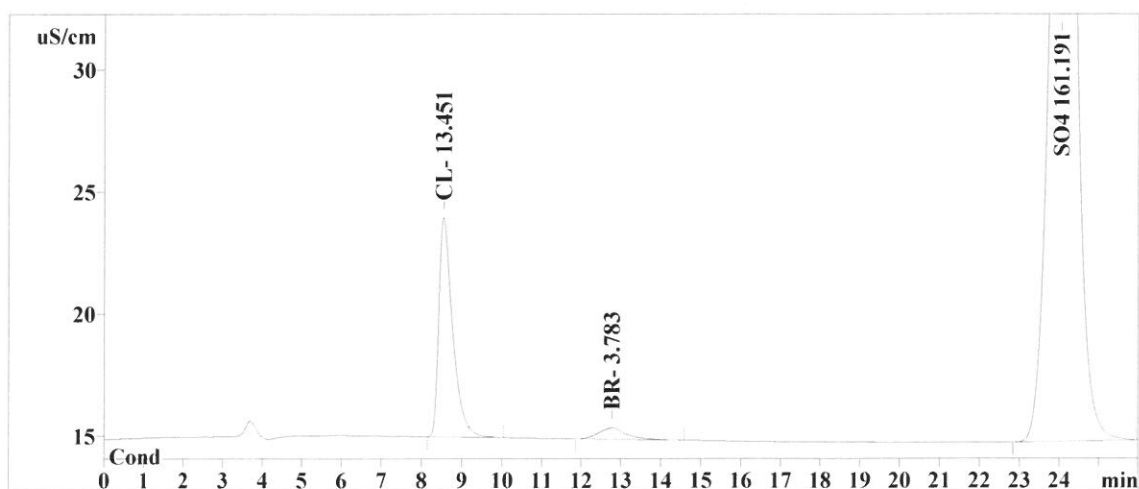
Ident: I5057-01
Analysis from: 8/31/2017 11:35:58 AM
File: _2017-08-31_

Last save: 8/31/2017 12:11:52 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58904

Last save: 8/31/2017 9:44:00 AM

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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.54	0.344	8.97	14.58	211.921	9.63	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.79	0.690	0.47	0.77	22.881	1.04	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	24.05	0.560	52.08	84.65	1965.097	89.33	0.
7	26.00	0.228	61.53	100.00	2199.899	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:42:56 PM
Printed by: wet

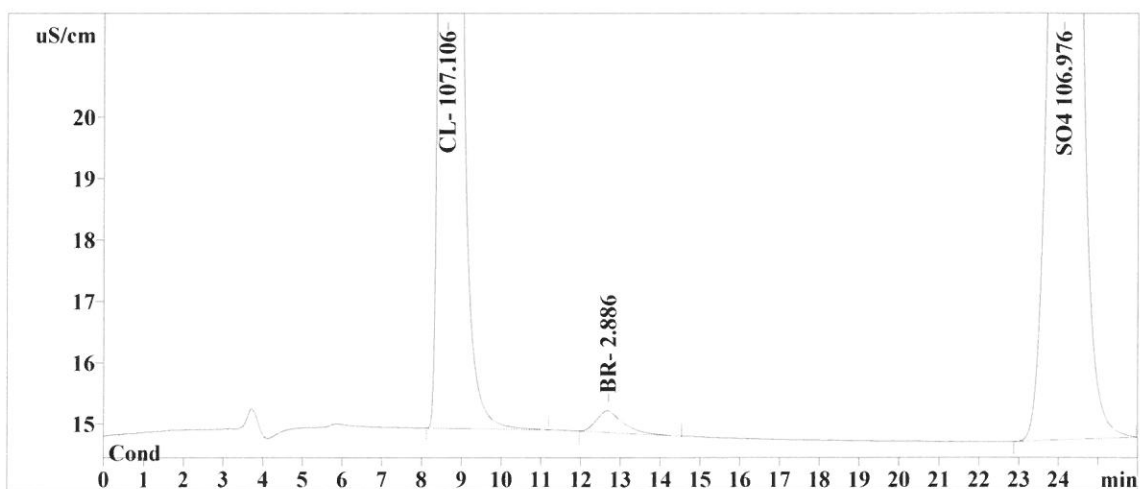
Ident: I5057-04
Analysis from: 8/31/2017 12:04:53 PM
File: _2017-08-31_

Last save: 8/31/2017 12:38:04 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58905

Last save: 8/31/2017 9:44:00 AM

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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.63	0.307	81.27	70.20	1698.007	56.29	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.68	0.668	0.36	0.31	16.578	0.55	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	24.12	0.562	34.14	29.49	1301.818	43.16	0.
7	26.00	0.220	115.78	100.00	3016.402	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:44:36 PM
Printed by: wet

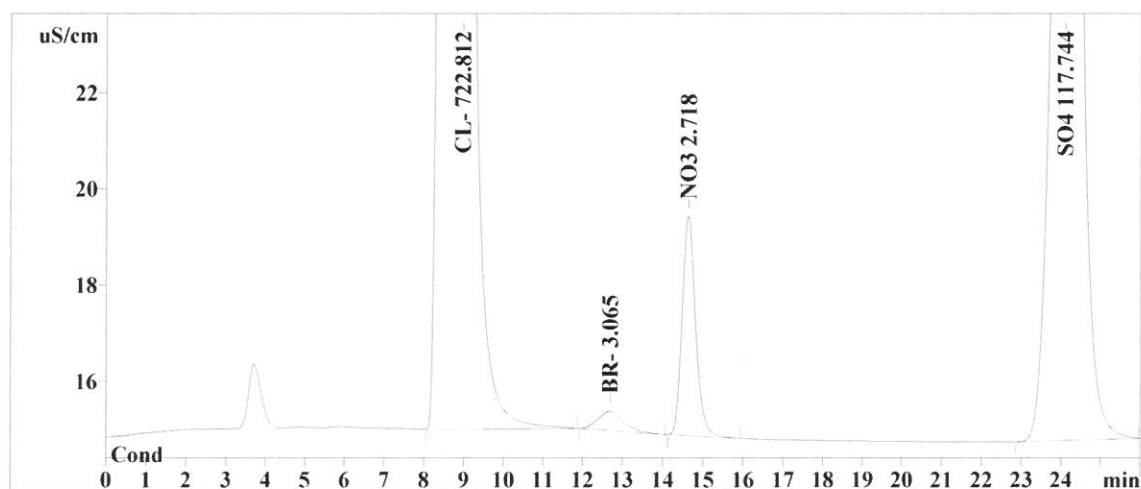
Ident: I5057-05
Analysis from: 8/31/2017 12:33:49 PM
File: _2017-08-31_

Last save: 8/31/2017 1:06:06 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58906

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 8
Volume: 20.0 μ L
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	8.96	0.446	415.60	90.64	11467.774	88.04	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.69	0.652	0.40	0.09	17.835	0.14	0.
5	14.63	0.351	4.56	0.99	105.987	0.81	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.09	0.564	37.66	8.21	1433.561	11.01	0.
7	26.00	0.288	458.22	99.93	13025.158	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:44:53 PM
Printed by: wet

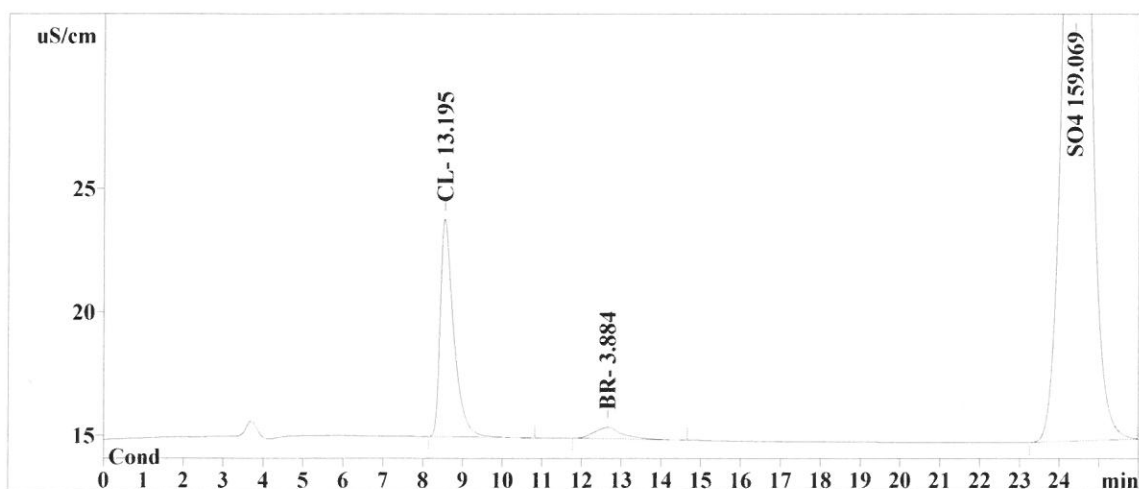
Ident: I5057-01DUP
Analysis from: 8/31/2017 1:02:45 PM
File: _2017-08-31_

Last save: 8/31/2017 1:49:42 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58907

Last save: 8/31/2017 9:44:00 AM

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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.54	0.339	8.81	14.50	207.854	9.58	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.66	0.705	0.47	0.77	23.589	1.09	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	0.561	51.50	84.73	1939.133	89.34	0.
7	26.00	0.229	60.77	100.00	2170.575	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:46:16 PM
Printed by: wet

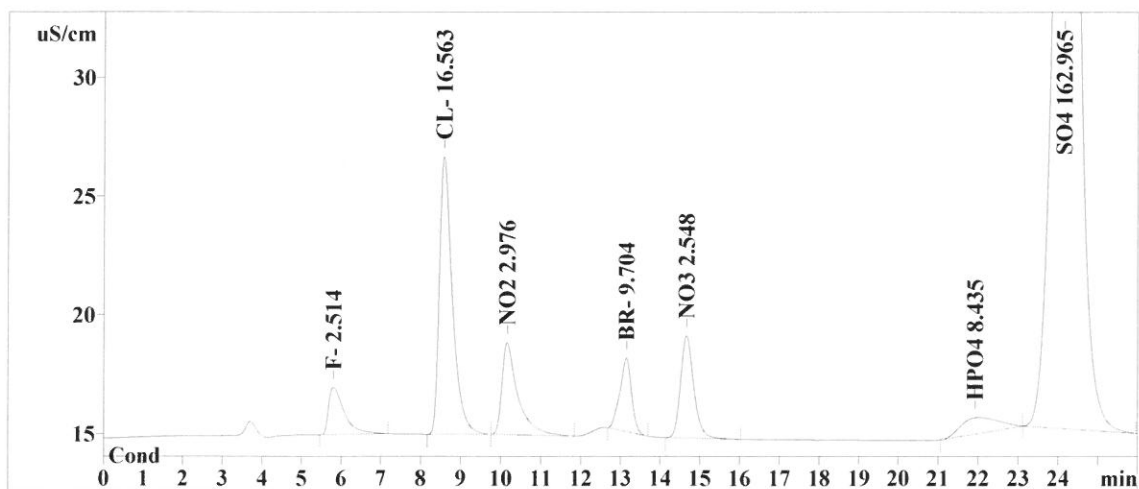
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Analysis from: 8/31/2017 1:31:40 PM
File: _2017-08-31_

Last save: 8/31/2017 3:07:34 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58908

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 10
Volume: 20.0 μ L
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	0.395	1.99	2.56	54.793	2.09	0.
2	8.58	0.326	11.68	15.02	261.301	9.99	0.
3	10.16	0.362	3.87	4.97	105.476	4.03	0.
4	13.15	0.317	3.09	3.97	64.477	2.47	0.
5	14.67	0.345	4.30	5.53	99.051	3.79	0.
6	21.92	1.060	0.69	0.89	43.729	1.67	0.
7	24.14	0.568	52.14	67.06	1986.797	75.96	0.
7	26.00	0.482	77.75	100.00	2615.622	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:46:30 PM
Printed by: wet

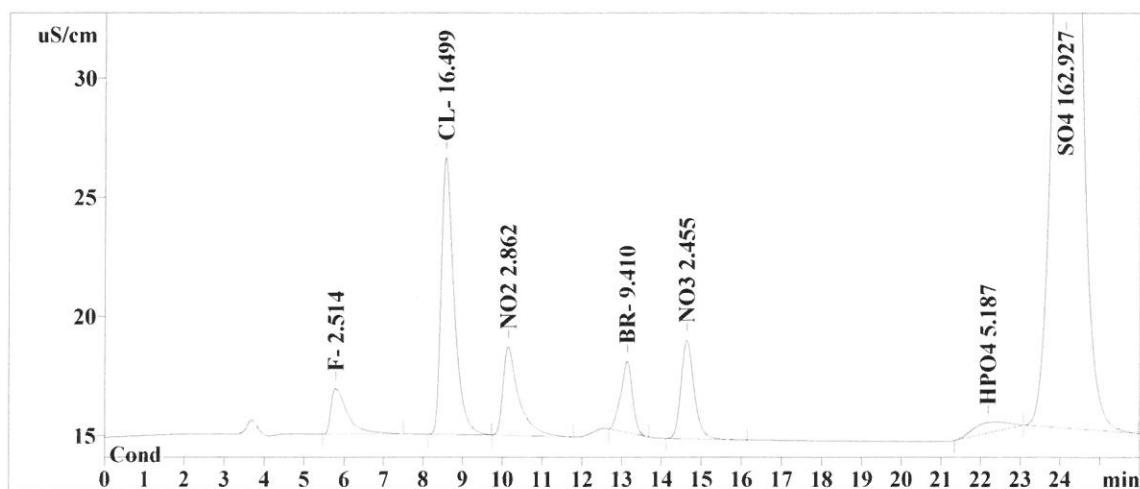
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Analysis from: 8/31/2017 2:00:36 PM
File: _2017-08-31_

Last save: 8/31/2017 3:08:22 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58909

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 11
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	0.405	1.90	2.48	54.795	2.12	0.
2	8.57	0.327	11.59	15.13	260.290	10.07	0.
3	10.15	0.364	3.71	4.84	101.213	3.91	0.
4	13.14	0.318	2.98	3.89	62.410	2.41	0.
5	14.64	0.346	4.12	5.38	95.263	3.68	0.
6	22.17	0.984	0.44	0.58	25.630	0.99	0.
7	24.13	0.571	51.88	67.70	1986.340	76.81	0.
7	26.00	0.474	76.63	100.00	2585.940	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:47:17 PM
Printed by: wet

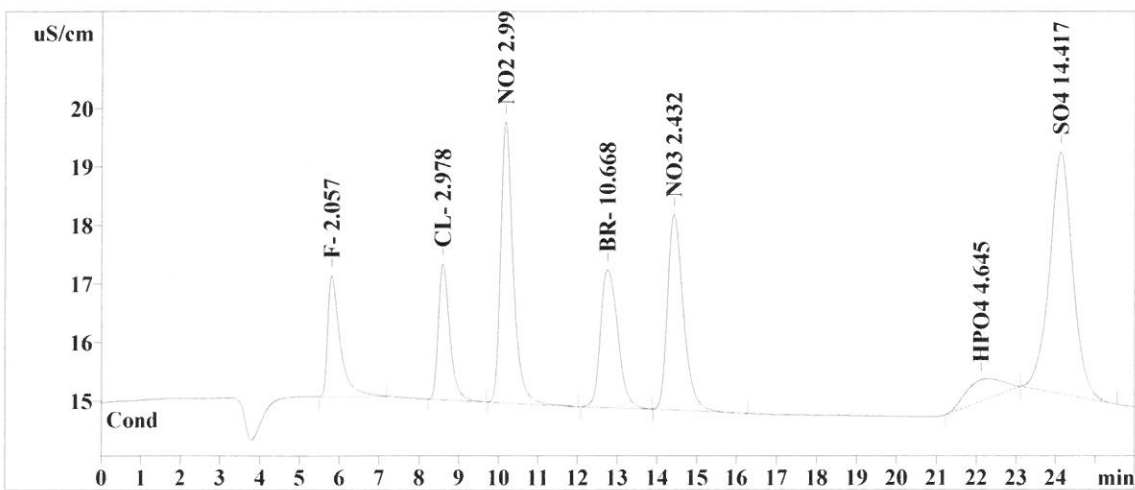
Ident: CCV
Analysis from: 8/31/2017 2:29:31 PM
File: _2017-08-31_

Last save: 8/31/2017 3:02:02 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58910

Last save: 8/31/2017 9:44:00 AM

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	5.81	0.300	2.06	10.63	44.420	8.02	0.
2	8.59	0.291	2.31	11.94	45.736	8.25	0.
3	10.17	0.321	4.81	24.80	106.282	19.18	0.
4	12.75	0.468	2.36	12.16	71.251	12.86	0.
5	14.42	0.426	3.34	17.24	94.332	17.03	0.
6	22.09	1.042	0.37	1.90	22.610	4.08	0.
7	24.13	0.603	4.13	21.33	169.432	30.58	0.
7	26.00	0.493	19.38	99.99	554.064	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 8/31/2017 3:47:30 PM
Printed by: wet

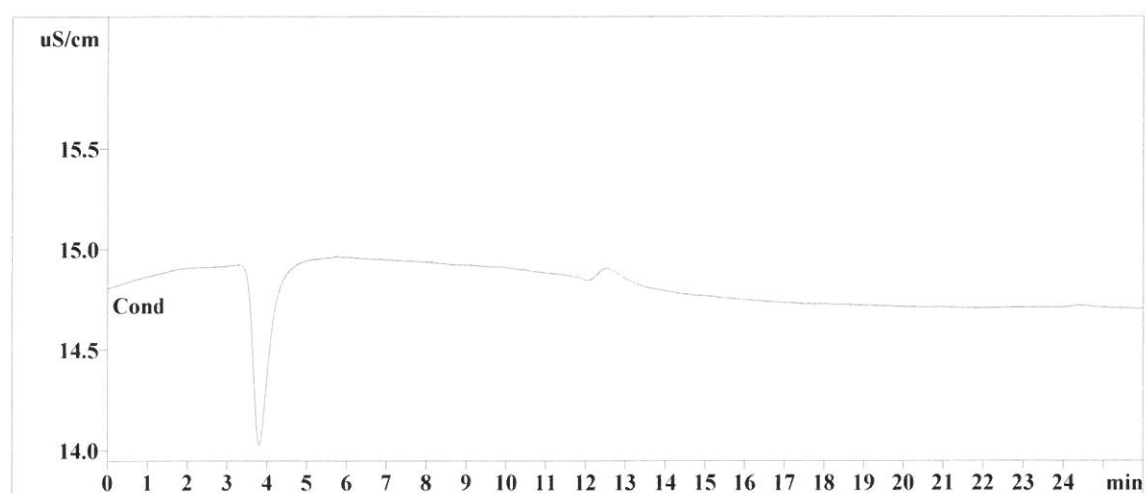
Ident: CCB
Analysis from: 8/31/2017 3:05:24 PM
File: _2017-08-31_

Last save: 8/31/2017 3:31:14 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58911

Last save: 8/31/2017 9:44:00 AM

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: 9/1/2017 9:17:44 AM
Printed by: wet

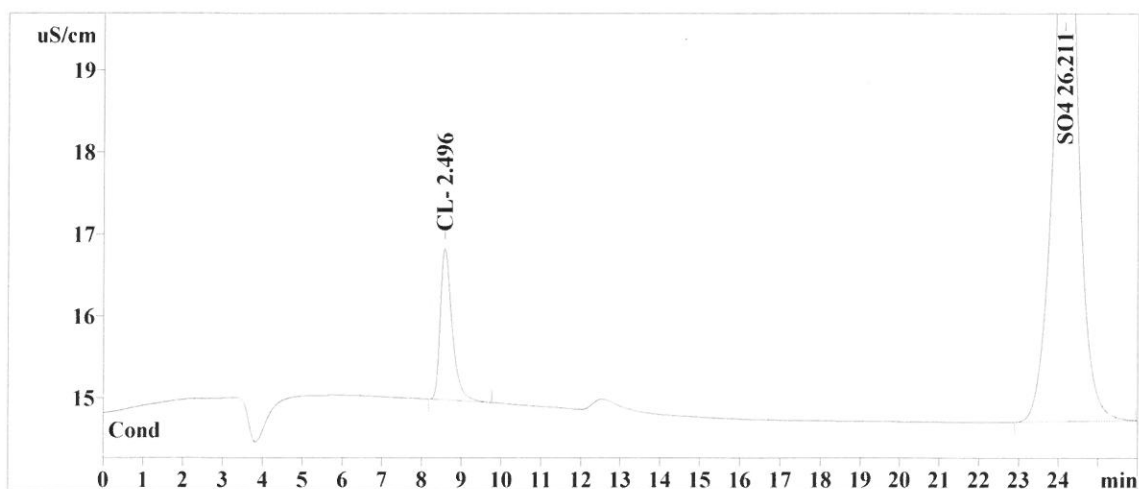
Ident: I5057-01DLX5
Analysis from: 8/31/2017 3:34:20 PM
File: _2017-08-31_

Last save: 9/1/2017 9:17:42 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58912

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 12
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	0.302	1.84	19.44	38.094	10.83	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	24.15	0.595	7.64	80.56	313.731	89.17	0.
7	26.00	0.128	9.49	100.00	351.825	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/1/2017 9:20:33 AM
Printed by: wet

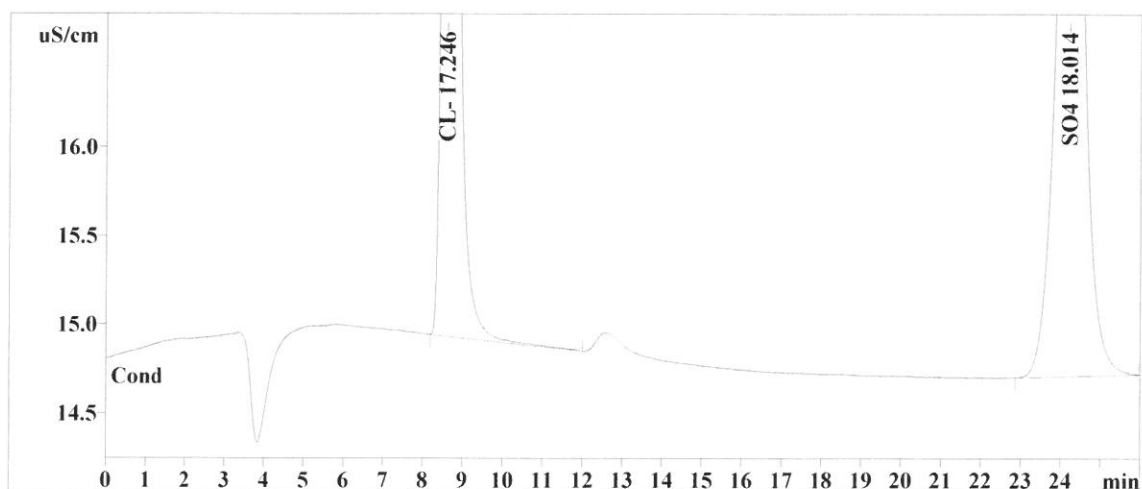
Ident: I5057-04DLX5
Analysis from: 8/31/2017 4:03:16 PM
File: _2017-08-31_

Last save: 9/1/2017 9:20:30 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58913

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 13
Volume: 20.0 μ L
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	8.60	0.281	14.00	73.08	272.146	56.04	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	24.21	0.600	5.16	26.91	213.441	43.96	0.
7	26.00	0.126	19.16	99.99	485.586	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/1/2017 9:21:58 AM
Printed by: wet

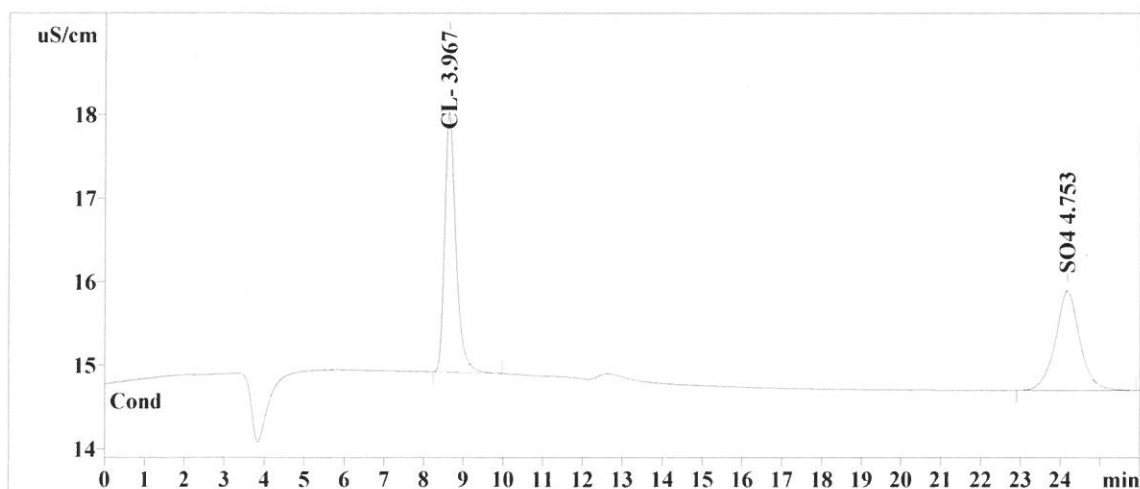
Ident: I5057-04DLX20
Analysis from: 8/31/2017 4:32:11 PM
File: _2017-08-31_

Last save: 9/1/2017 9:21:58 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58914

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 14
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	0.290	3.10	72.23	61.427	54.54	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	24.18	0.621	1.19	27.74	51.210	45.46	0.
7	26.00	0.130	4.30	99.98	112.637	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/1/2017 9:25:46 AM
Printed by: wet

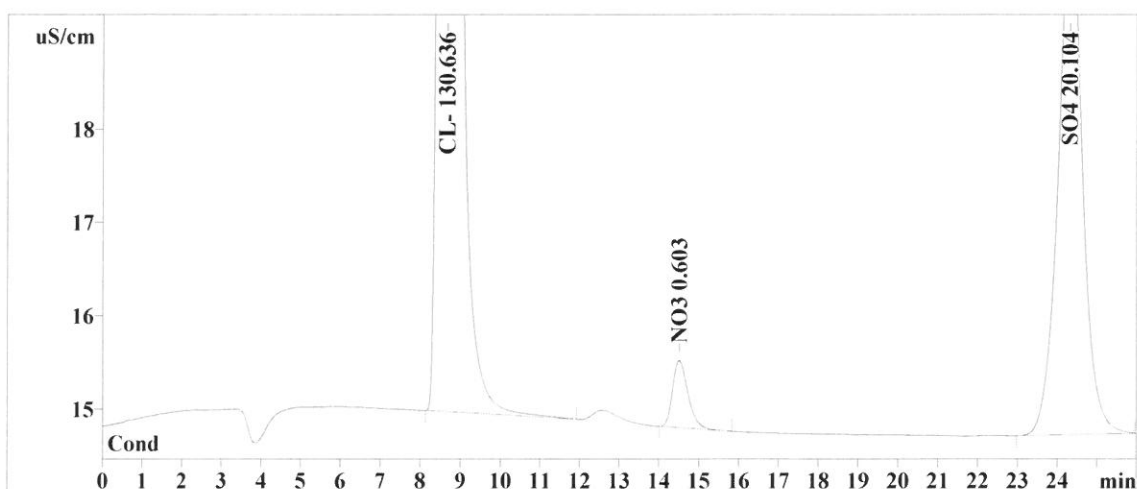
Ident: I5057-05DLX5
Analysis from: 8/31/2017 5:01:07 PM
File: _2017-08-31_

Last save: 9/1/2017 9:25:46 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58915

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 15
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	8.66	0.281	108.79	94.35	2071.367	88.89	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	14.51	0.415	0.72	0.63	19.766	0.85	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.30	0.600	5.78	5.01	239.019	10.26	0.
7	26.00	0.185	115.29	99.99	2330.151	100.00	0.

This report has been created by IC Net
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Report date: 9/1/2017 9:28:37 AM
Printed by: wet

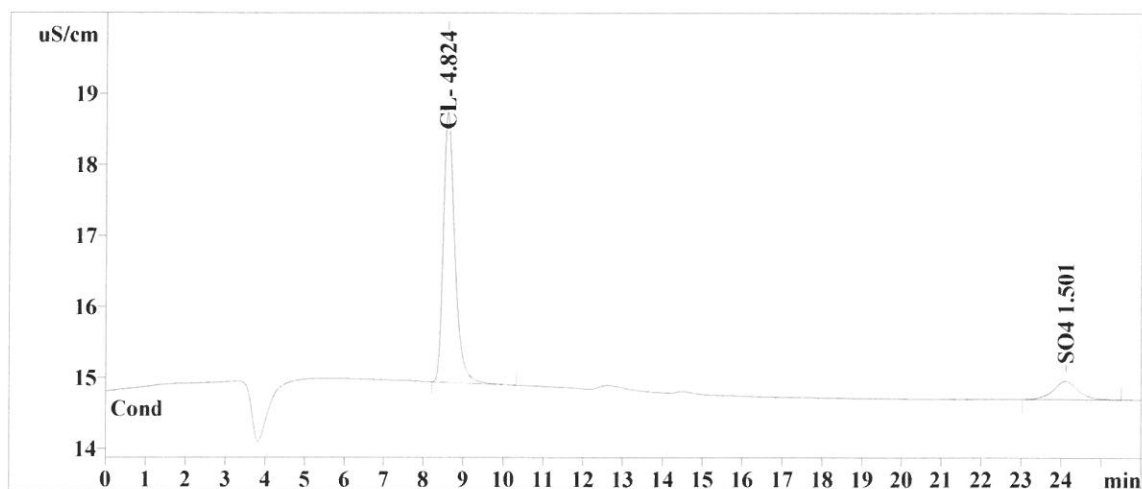
Ident: I5057-05DLX100
Analysis from: 8/31/2017 5:30:03 PM
File: _2017-08-31_

Last save: 9/1/2017 9:28:36 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58916

Last save: 8/31/2017 9:44:00 AM

SAMPLE:
: AK/AP
Vial number: 16
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	8.60	0.288	3.80	93.56	75.032	86.79	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	24.11	0.636	0.26	6.42	11.422	13.21	0.
7	26.00	0.132	4.06	99.98	86.454	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/1/2017 9:29:46 AM
Printed by: wet

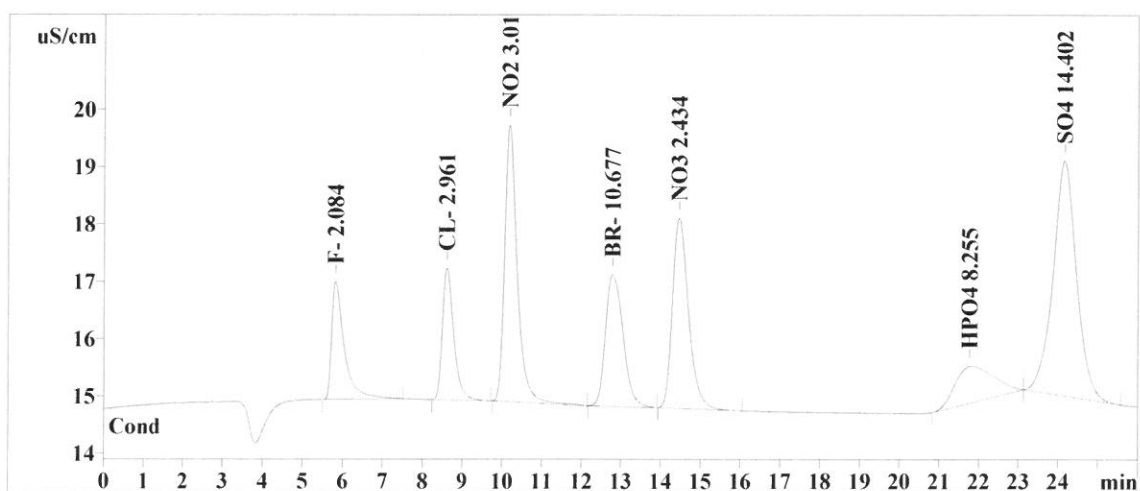
Ident: CCV
Analysis from: 8/31/2017 5:58:58 PM
File: _2017-08-31_

Last save: 9/1/2017 8:25:36 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58917

Last save: 8/31/2017 9:44:00 AM

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	0.299	2.05	10.51	45.019	7.83	0.
2	8.60	0.291	2.30	11.76	45.463	7.90	0.
3	10.18	0.321	4.82	24.69	107.077	18.61	0.
4	12.78	0.485	2.30	11.76	71.315	12.40	0.
5	14.46	0.432	3.31	16.97	94.428	16.41	0.
6	21.76	1.090	0.64	3.29	42.724	7.43	0.
7	24.16	0.607	4.10	21.00	169.254	29.42	0.
7	26.00	0.504	19.52	99.98	575.279	100.00	0.

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Report date: 9/1/2017 9:30:13 AM
Printed by: wet

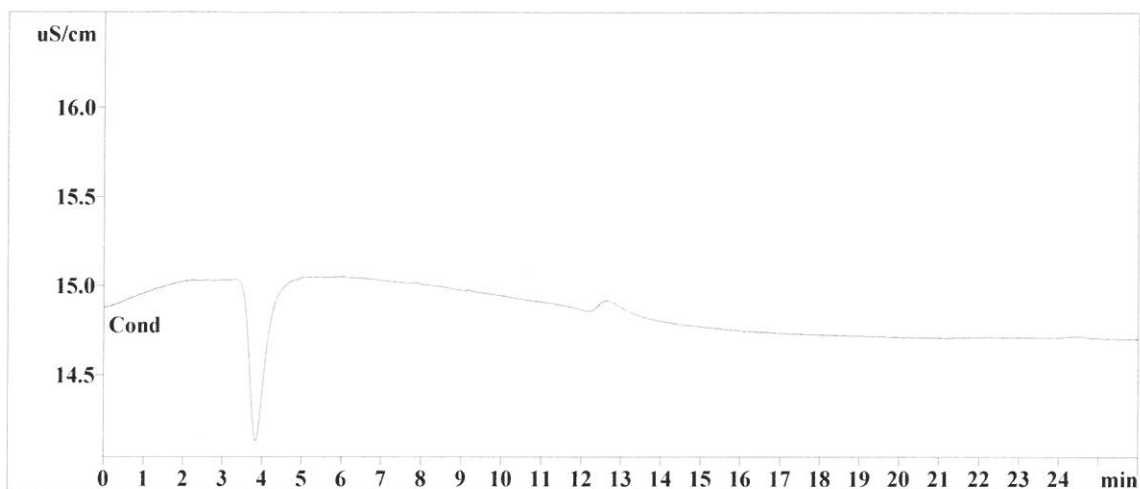
Ident: CCB
Analysis from: 8/31/2017 6:27:54 PM
File: _2017-08-31_

Last save: 9/1/2017 9:30:14 AM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58918

Last save: 8/31/2017 9:44:00 AM

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



Quantitation method: Custom

No peaks

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