

IC-1

300.0

9-6-17 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	2.1120	2.8970	2.9500	10.4280	2.3500	8.9330	13.8560	2017-09-01	9/1/17 9:06
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-09-01	9/1/17 9:36
LB89844BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-09-01	9/1/17 10:06
LB89844BSW	2.0790	2.9070	2.9880	10.8000	2.4600	9.5100	14.0160	2017-09-01	9/1/17 10:36
I5081-01	0.0000	124.7970	0.0000	1.7750	2.3250	0.0000	72.7070	2017-09-01	9/1/17 13:52
I5081-02	0.0000	129.6630	0.0000	1.7990	2.3370	0.0000	79.0070	2017-09-01	9/1/17 14:22
I5081-03	0.0000	114.7840	0.0000	11.6380	0.0000	0.0000	128.9610	2017-09-01	9/1/17 14:52
I5081-04	11.4030	180.6080	0.0000	8.2210	0.3530	1.2860	181.6550	2017-09-01	9/1/17 15:22
I5078-03	0.0000	80.1560	0.0000	3.7020	0.2330	0.0000	4.0570	2017-09-01	9/1/17 15:52
I5081-01DUP	0.0000	126.9050	0.0000	1.6930	2.3370	0.0000	67.7740	2017-09-01	9/1/17 16:22
I5081-01MS	3.5980	117.8500	2.8950	11.4160	4.6750	11.0070	70.2190	2017-09-01	9/1/17 16:52
CCV	2.0060	3.0180	3.0050	10.7650	2.4120	8.0650	14.1350	2017-09-01	9/1/17 17:22
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-09-01	9/1/17 17:52
I5081-01DLX5	0.0000	20.7640	0.0000	0.0000	0.5330	0.0000	11.3390	2017-09-01	9/1/17 18:22
I5081-02DLX5	0.0000	20.3540	0.0000	0.0000	0.5380	0.0000	11.3010	2017-09-01	9/1/17 19:21
I5081-03DLX5	0.0000	20.7770	0.0000	2.8350	0.0000	0.0000	43.1100	2017-09-01	9/1/17 20:21
I5081-03DLX20	0.0000	4.6400	0.0000	0.0000	0.0000	0.0000	16.7200	2017-09-01	9/1/17 20:51
I5081-04DLX10	0.0000	14.2400	0.0000	0.0000	0.0000	0.0000	31.6940	2017-09-01	9/1/17 21:21
I5078-03DLX20	0.0000	3.0180	0.0000	0.0000	0.0000	0.0000	0.0000	2017-09-01	9/1/17 22:21
CCV	2.0660	3.0510	3.0180	10.7370	2.4130	8.5390	14.2470	2017-09-01	9/1/17 22:51
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2017-09-01	9/1/17 23:21

CALIBRATION OF COMPONENT F-

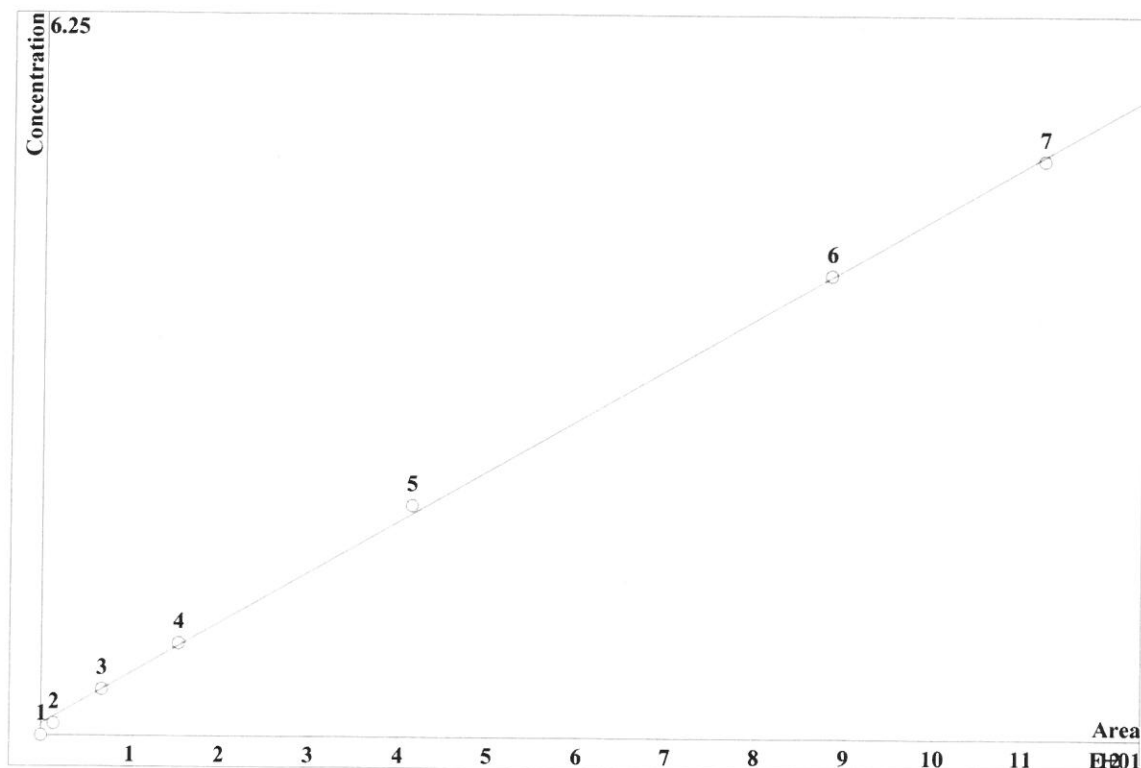
Method: ANIONS 08-22-17.mtw
 Equation: $Q = 0.880309 \cdot A + 2.04056$
 RSD: 2.633 %
 Correlation coefficient: 0.999717

IC-1 cal

8-22-17

AK

8/23/17



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

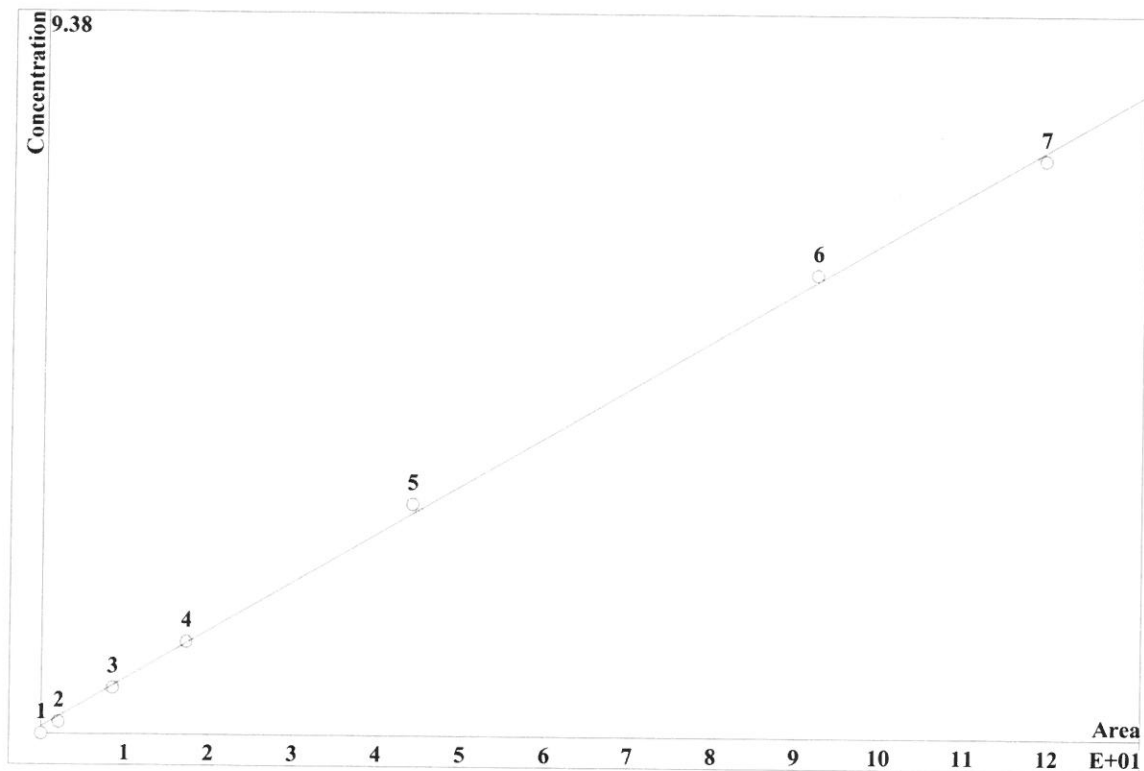
Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

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:

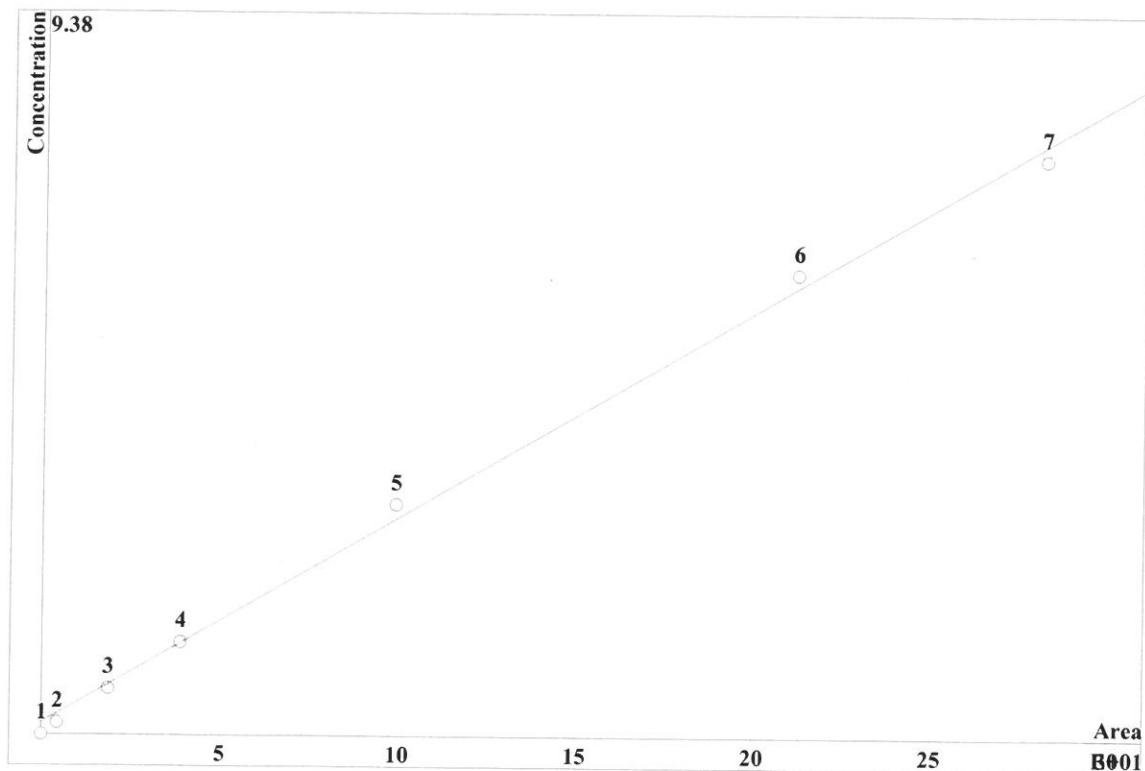
Formula: Linear

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



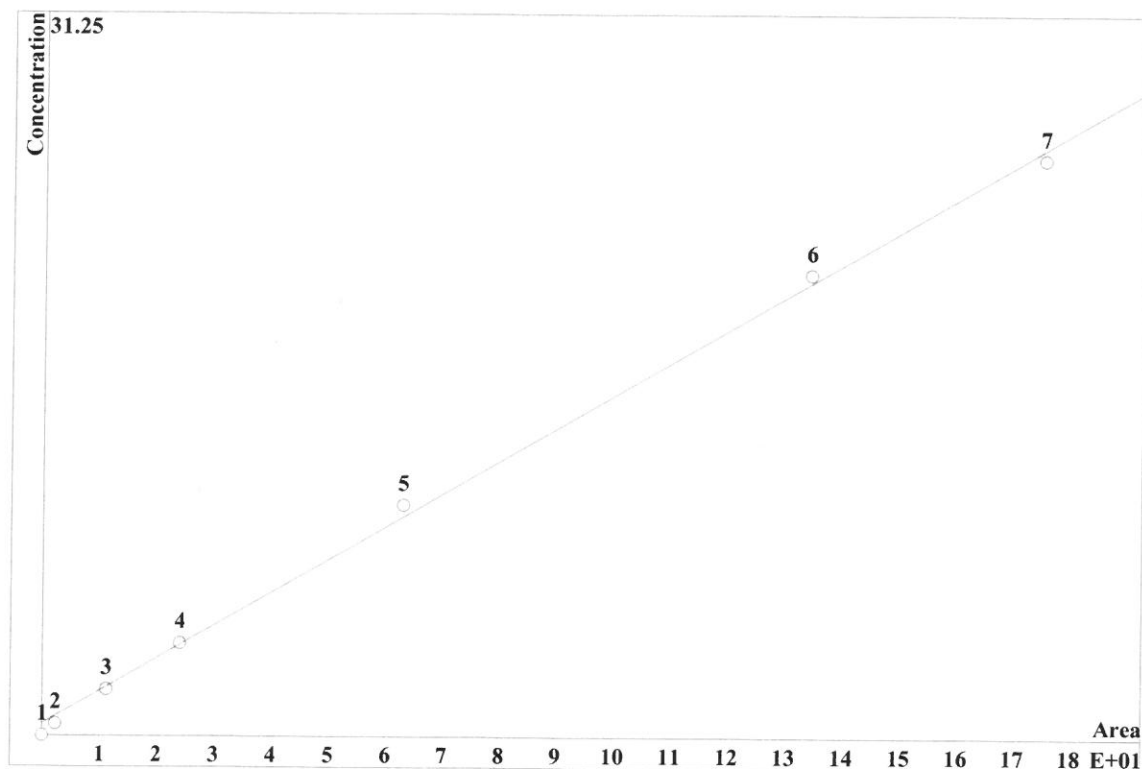
K3 = 0 K2 = 0 K1 = 0.535093 K0 = 3.08355

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



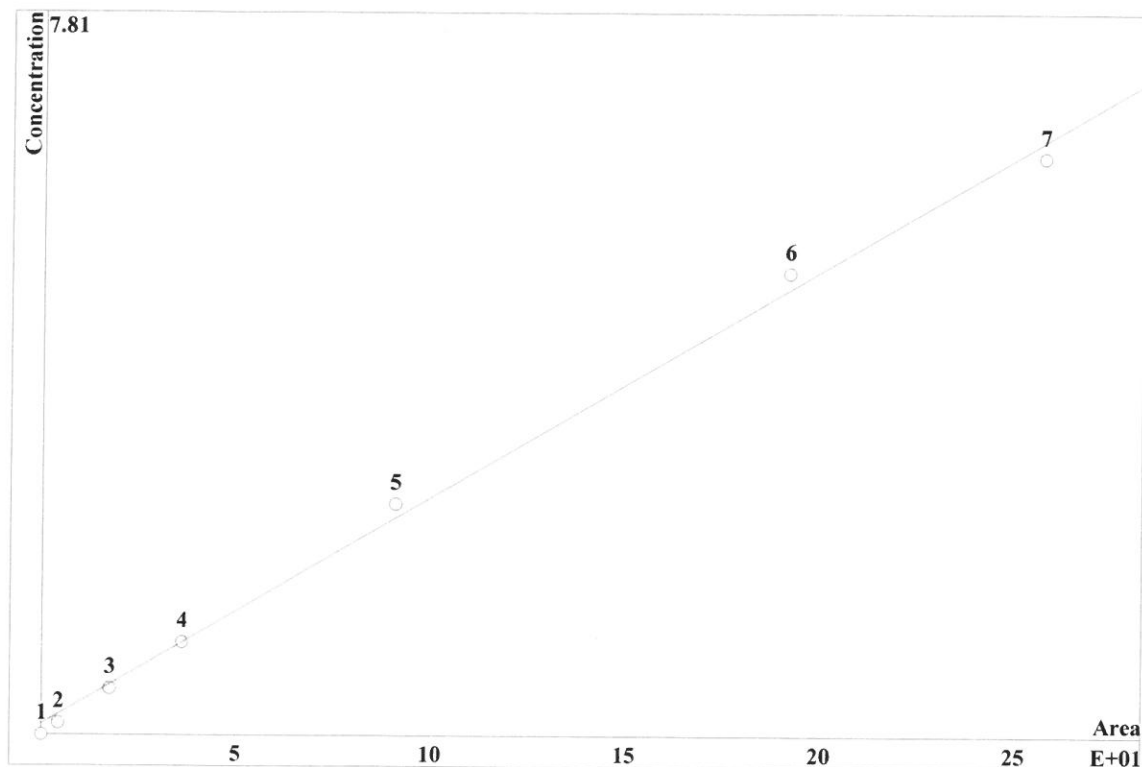
K3 = 0 K2 = 0 K1 = 2.84686 K0 = 10.5239

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:

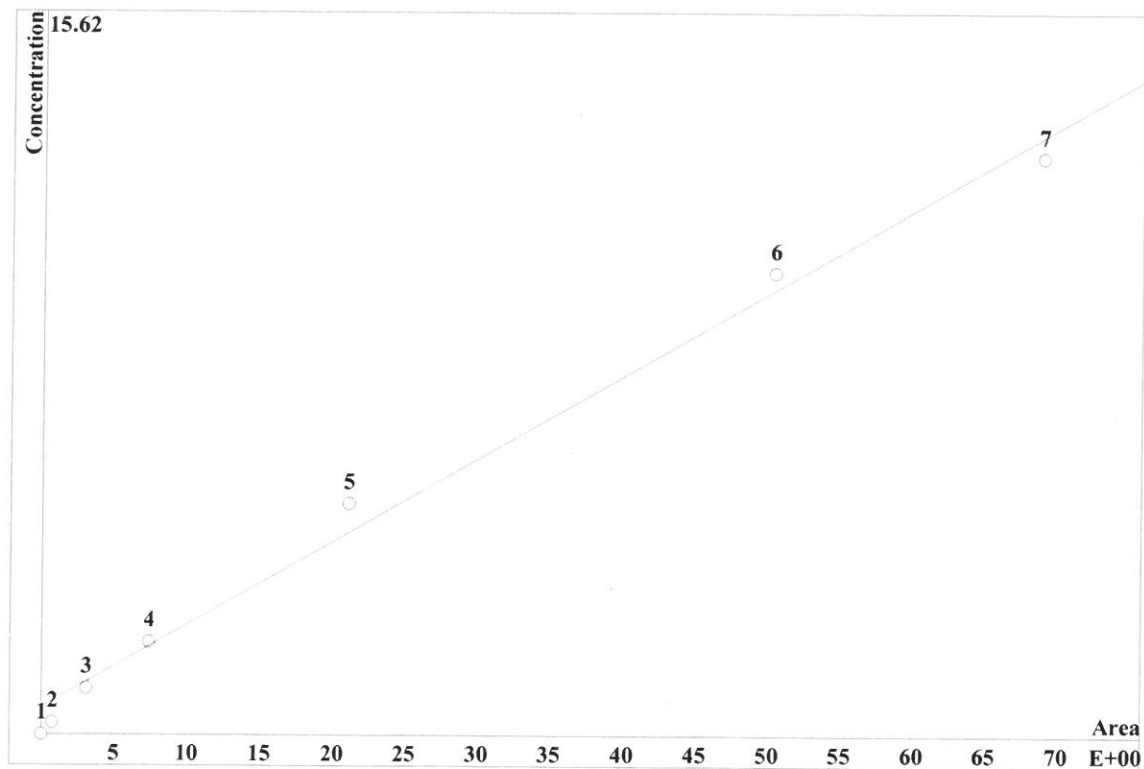
Formula: Linear

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:

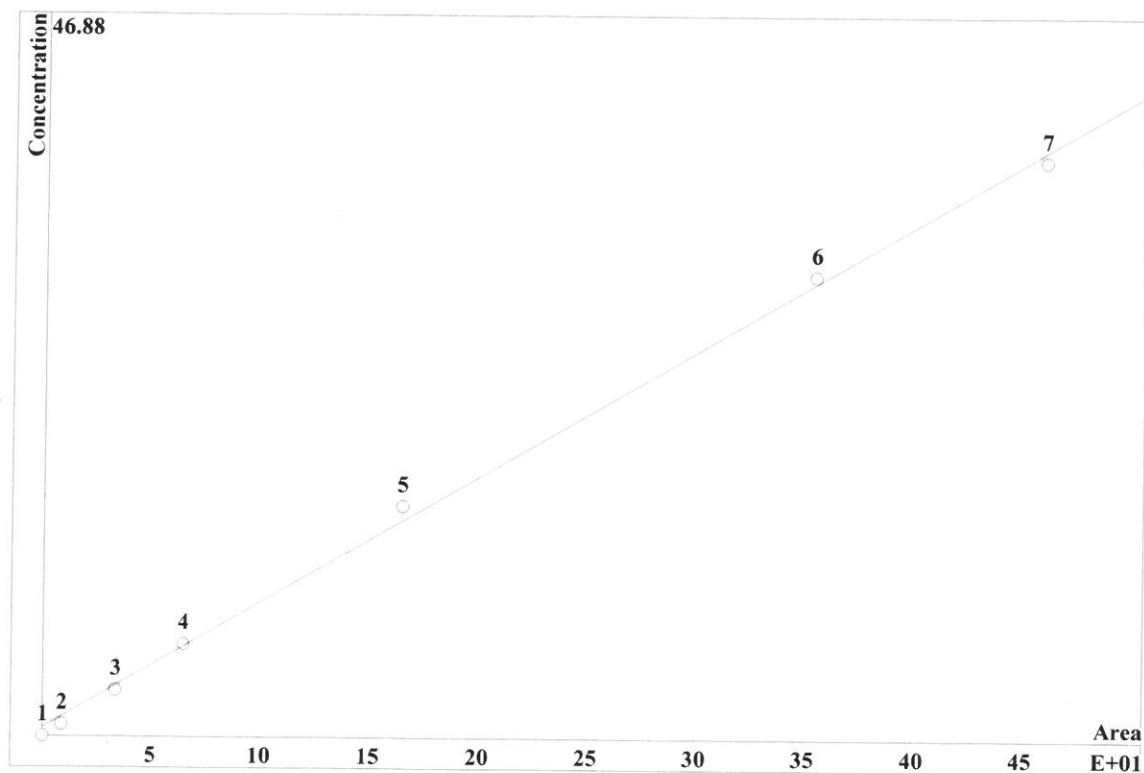
Formula: Linear

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	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

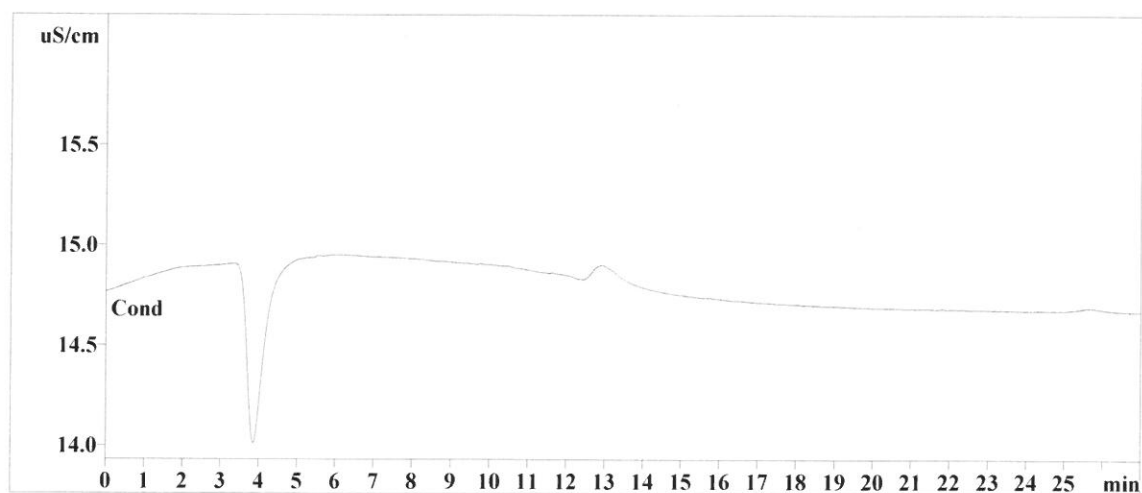
Ident: STD1
Analysis from: 8/22/2017 4:40:25 PM
File: _2017-08-22_

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_

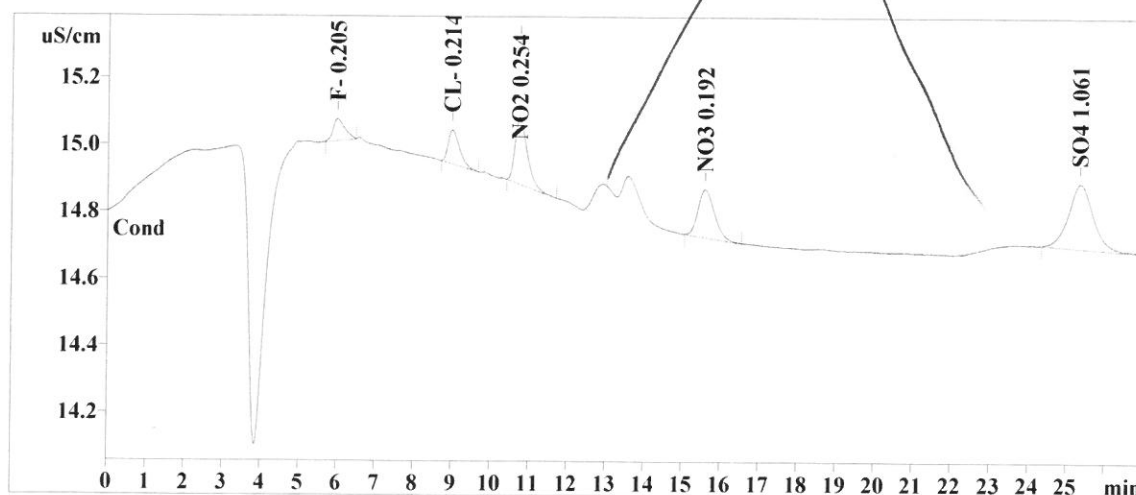
Last save: 8/23/2017 9:59:06 AM

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

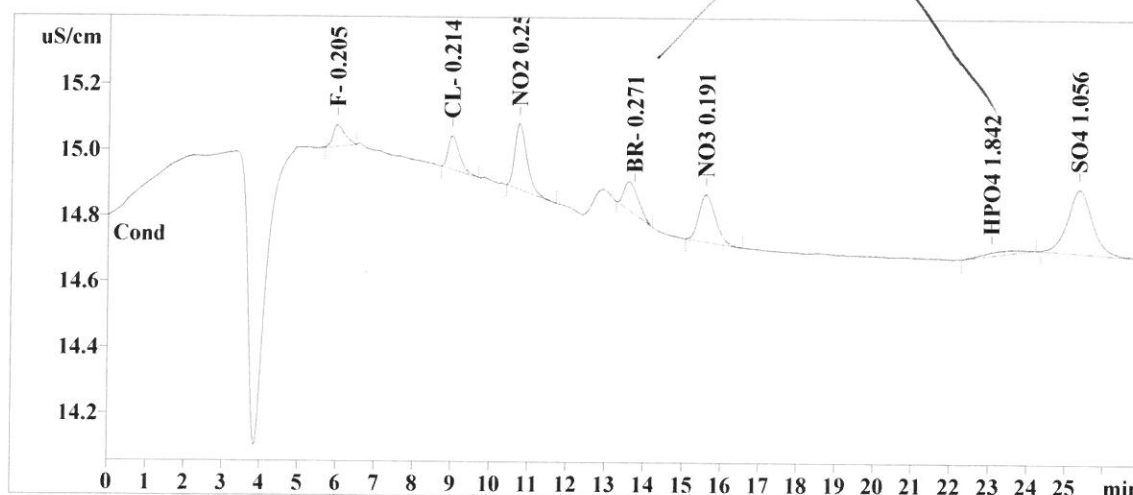
Last save: 8/23/2017 10:00:30 AM

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

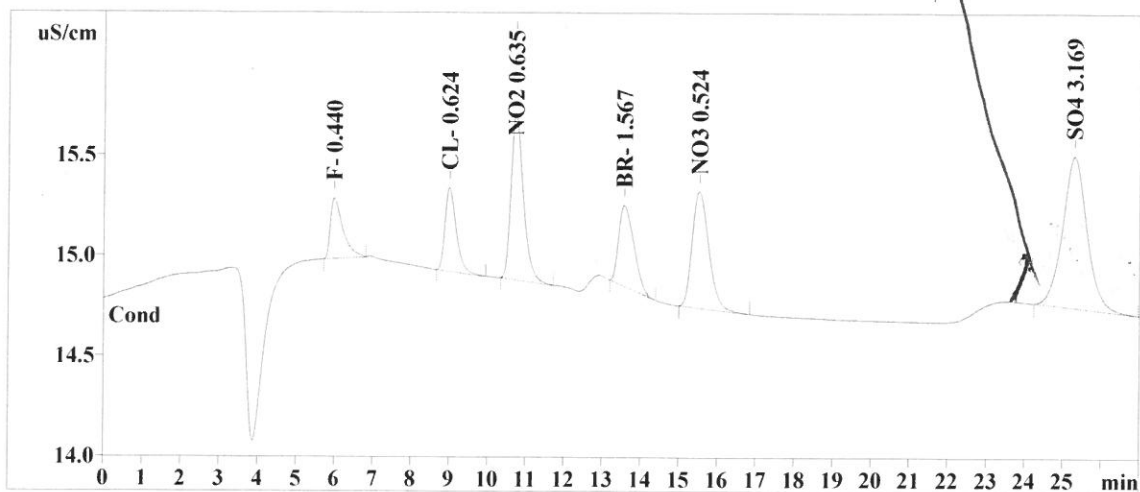
Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58834

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_

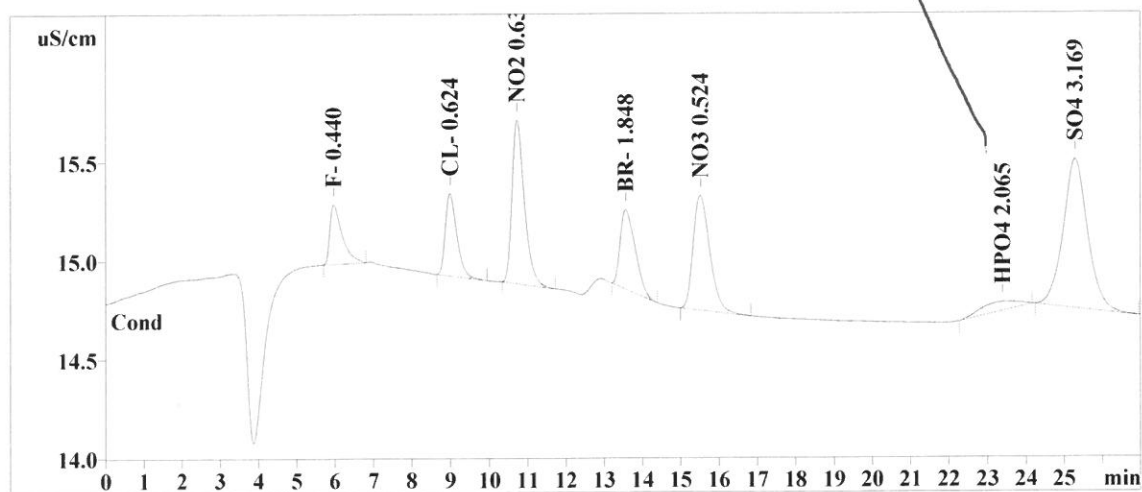
Last save: 8/23/2017 10:01:36 AM

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

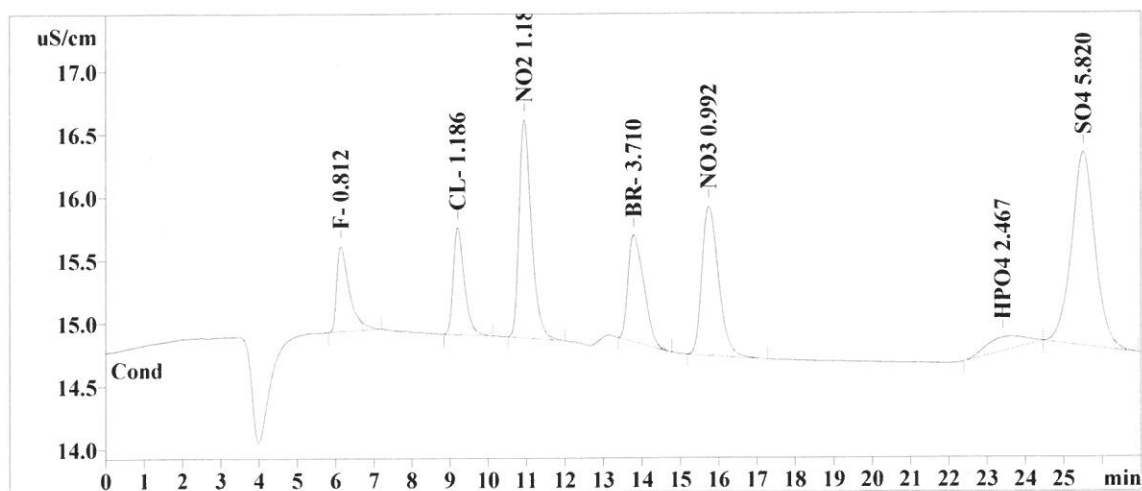
Ident: STD4
 Analysis from: 8/22/2017 6:10:11 PM
 File: _2017-08-22_

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

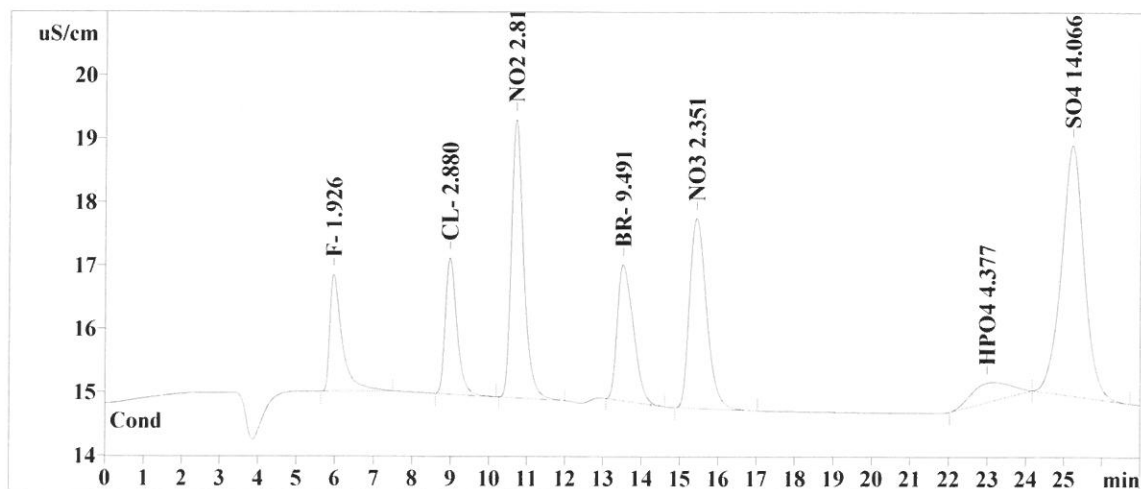
Ident: STD5
Analysis from: 8/22/2017 6:40:05 PM
File: _2017-08-22_

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

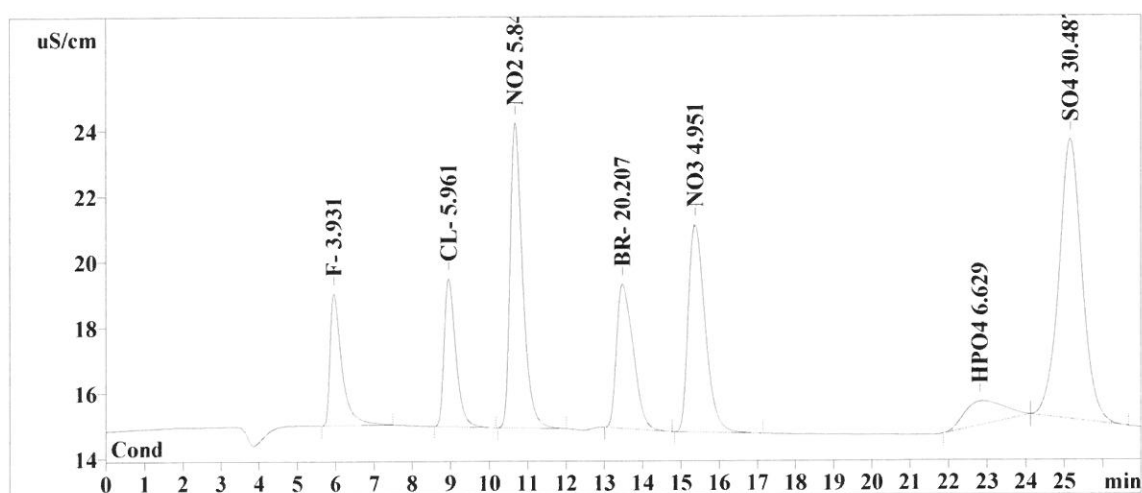
Ident: STD6
Analysis from: 8/22/2017 7:10:01 PM
File: _2017-08-22_

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 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	0.309	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

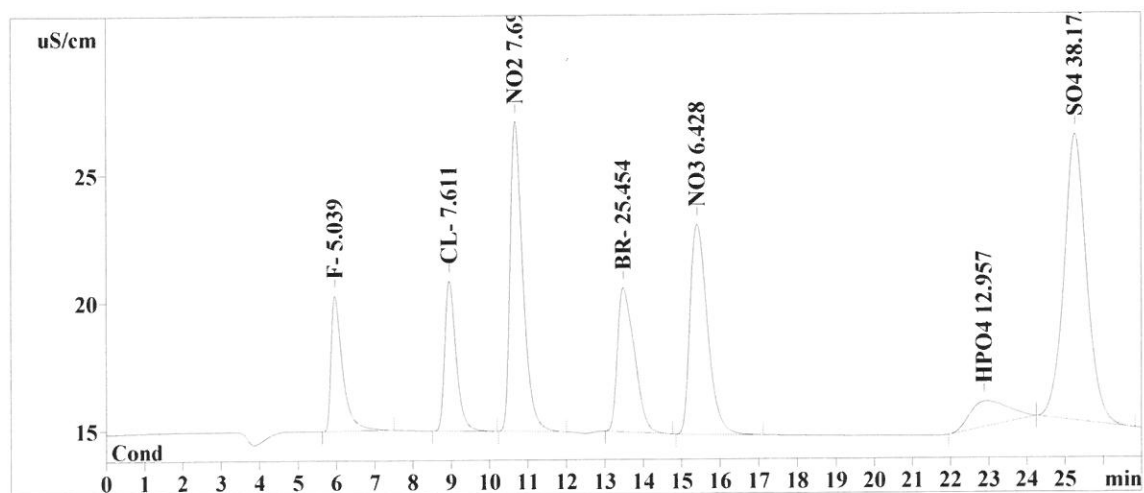
Ident: STD7
Analysis from: 8/22/2017 7:39:56 PM
File: _2017-08-22_

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

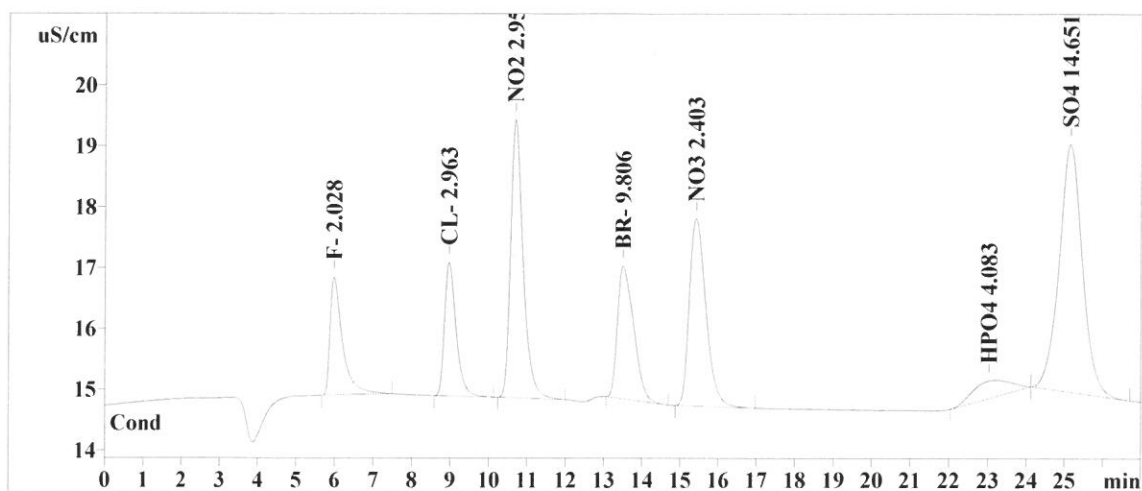
Ident: ICV
Analysis from: 8/22/2017 9:09:41 PM
File: _2017-08-22_

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

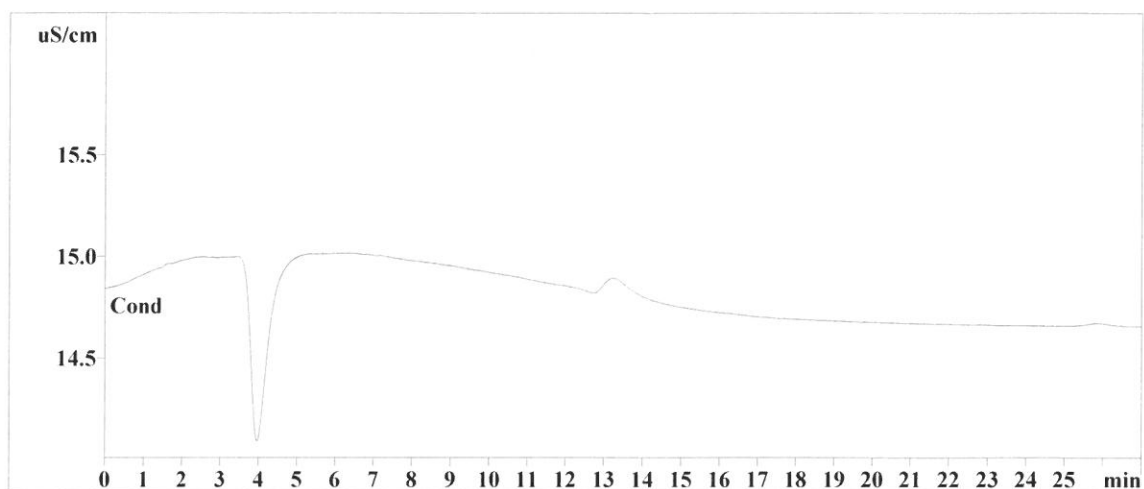
Ident: ICB
Analysis from: 8/22/2017 9:39:36 PM
File: _2017-08-22_

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: 9/5/2017 4:45:54 PM
Printed by: wet

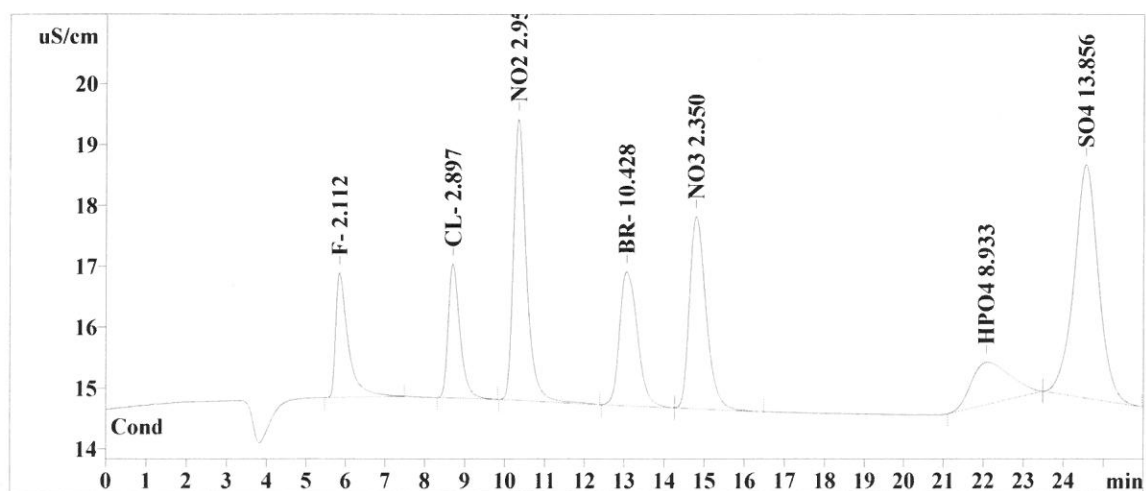
Ident: CCV
Analysis from: 9/1/2017 9:06:02 AM
File: _2017-09-01_

Last save: 9/5/2017 4:45:44 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58921

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	5.84	0.306	2.04	10.88	45.664	8.09	0.
2	8.70	0.298	2.20	11.73	44.448	7.88	0.
3	10.33	0.327	4.62	24.64	104.511	18.52	0.
4	13.05	0.493	2.20	11.73	69.562	12.33	0.
5	14.79	0.438	3.15	16.82	90.982	16.12	0.
6	22.07	1.084	0.70	3.71	46.501	8.24	0.
7	24.56	0.623	3.83	20.45	162.572	28.81	0.
7	26.00	0.510	18.74	99.98	564.241	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:46:21 PM
Printed by: wet

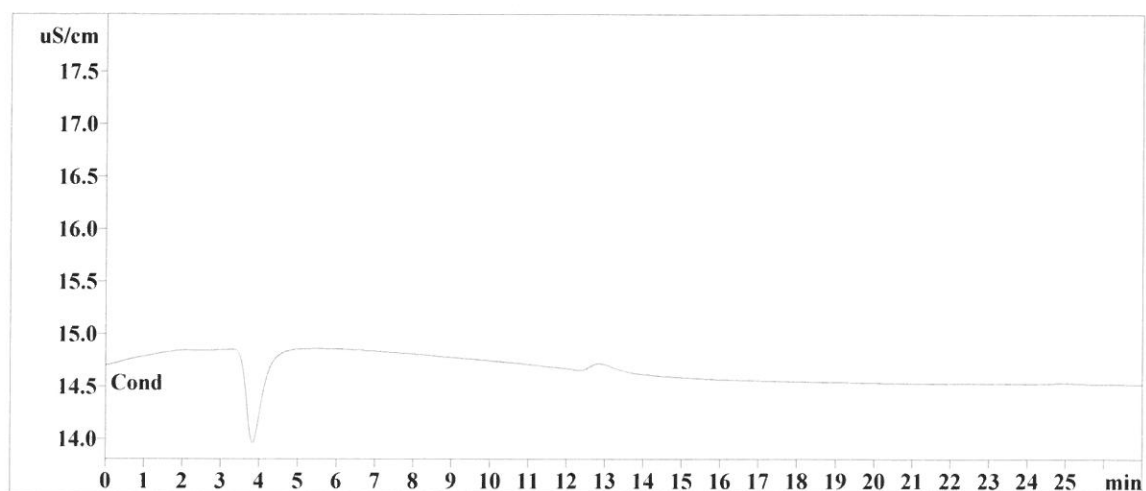
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Analysis from: 9/1/2017 9:36:34 AM
File: _2017-09-01_

Last save: 9/5/2017 4:46:16 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58922

Last save: 8/29/2017 12:23:02 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: 9/5/2017 4:46:28 PM
Printed by: wet

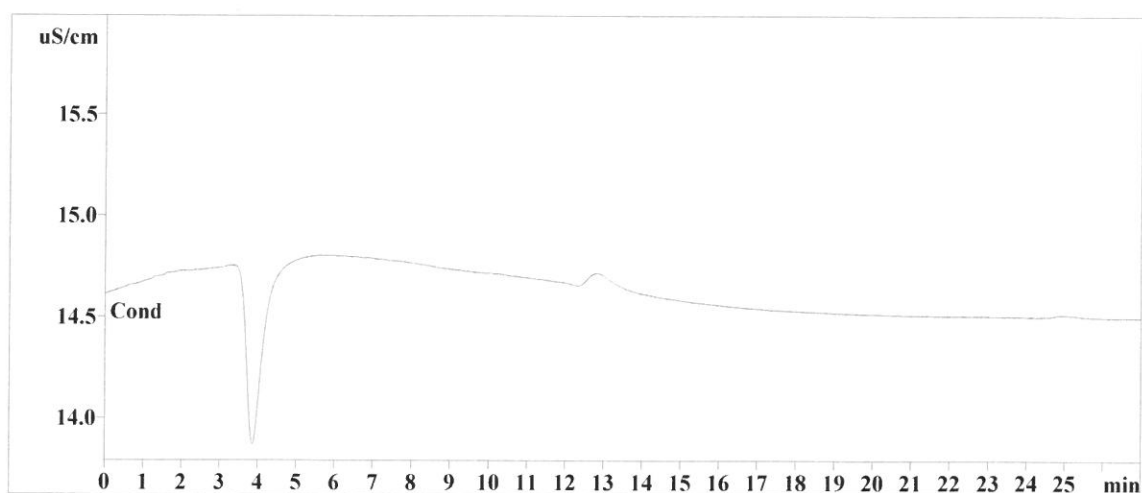
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File: _2017-09-01_

Last save: 9/5/2017 4:46:16 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58923

Last save: 8/29/2017 12:23:02 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: 9/5/2017 4:46:34 PM
Printed by: wet

Ident: LB89844BSW
Analysis from: 9/1/2017 10:36:24 AM
File: _2017-09-01_

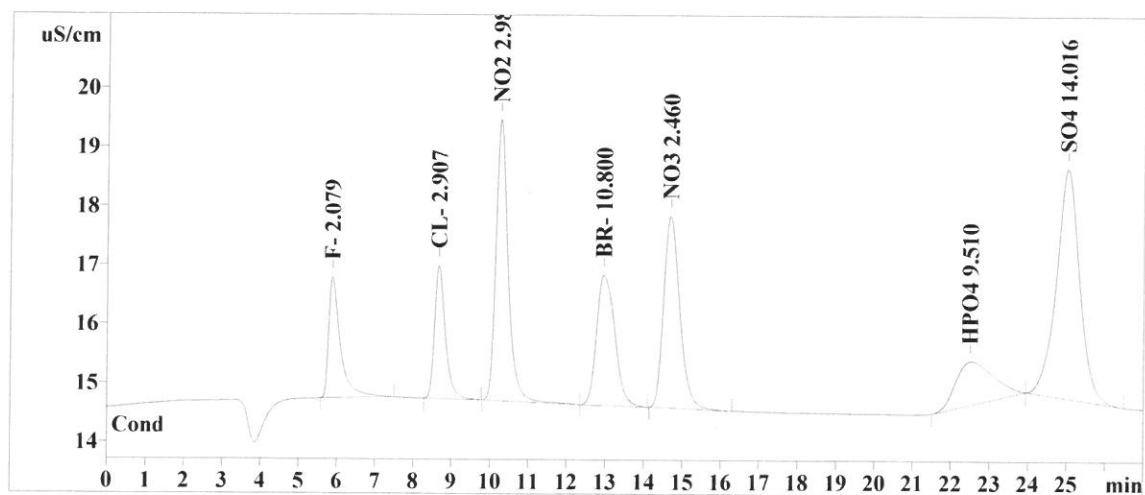
Last save: 9/1/2017 4:03:30 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58924

Last save: 9/1/2017 9:36:44 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	5.87	0.301	2.04	10.67	44.907	7.78	0.
2	8.65	0.291	2.25	11.75	44.615	7.73	0.
3	10.25	0.321	4.76	24.87	105.909	18.34	0.
4	12.94	0.513	2.21	11.55	72.178	12.50	0.
5	14.67	0.447	3.25	16.97	95.498	16.54	0.
6	22.48	1.087	0.74	3.86	49.717	8.61	0.
7	25.01	0.618	3.89	20.31	164.531	28.50	0.
7	27.00	0.511	19.15	99.98	577.355	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:47:22 PM
Printed by: wet

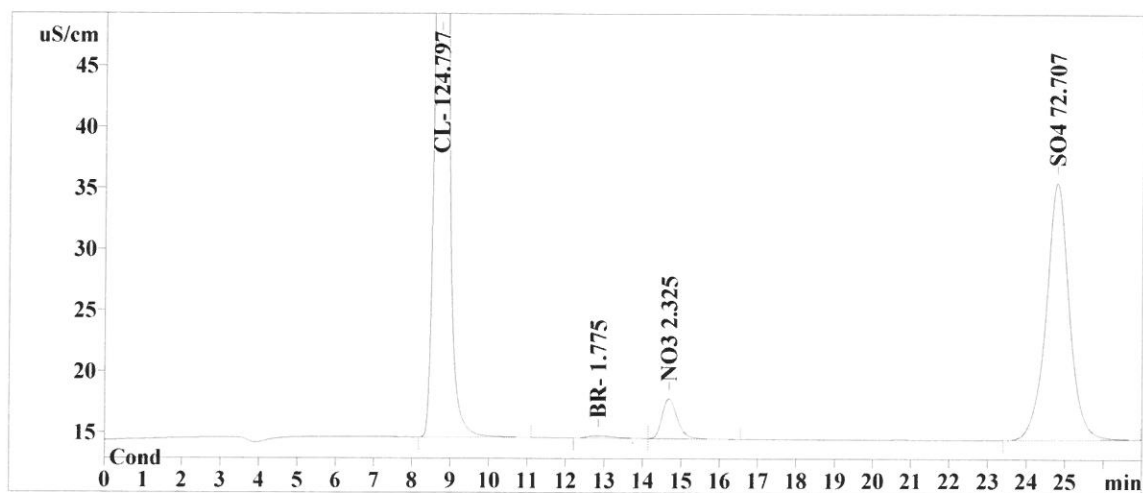
Ident: I5081-01
Analysis from: 9/1/2017 1:52:45 PM
File: _2017-09-01_

Last save: 9/1/2017 2:20:34 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58926

Last save: 9/1/2017 9:36:44 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	8.73	0.282	103.71	80.90	1978.709	66.85	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.84	0.731	0.19	0.15	8.776	0.30	0.
5	14.68	0.422	3.26	2.54	89.989	3.04	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.78	0.604	21.02	16.40	882.570	29.82	0.
7	27.00	0.291	128.17	99.99	2960.043	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:47:45 PM
Printed by: wet

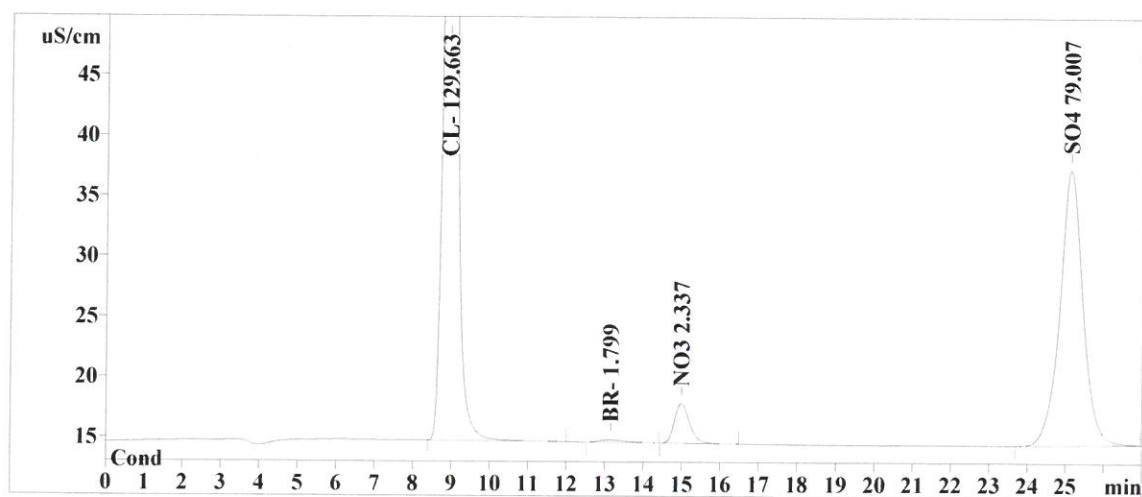
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Analysis from: 9/1/2017 2:22:40 PM
File: _2017-09-01_

Last save: 9/1/2017 2:49:30 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58927

Last save: 9/1/2017 9:36:44 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	8.92	0.289	105.05	80.01	2055.927	66.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	13.14	0.745	0.19	0.14	8.941	0.29	0.
5	14.99	0.423	3.27	2.49	90.457	2.90	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.12	0.609	22.78	17.35	959.646	30.81	0.
7	27.00	0.295	131.29	100.00	3114.971	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:47:54 PM
Printed by: wet

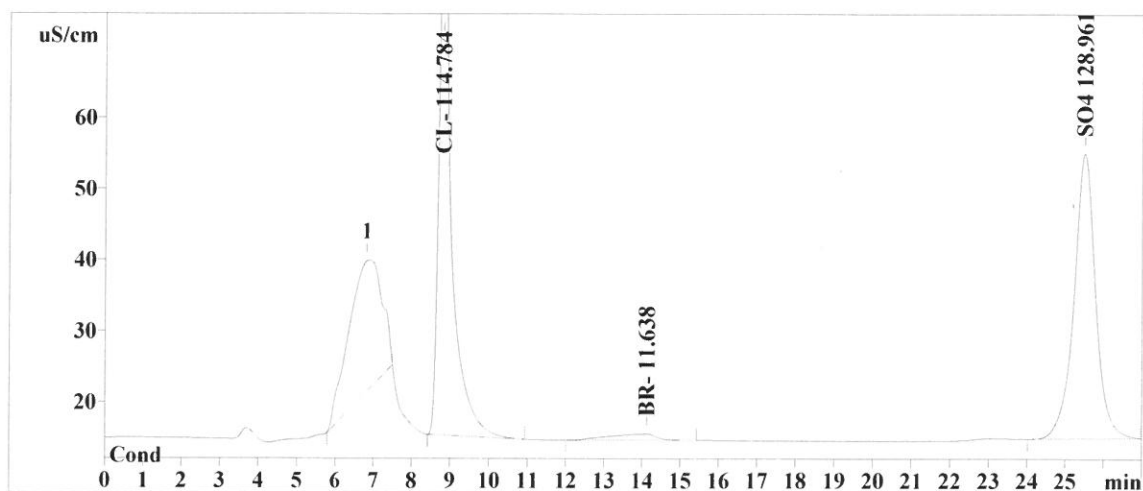
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Analysis from: 9/1/2017 2:52:35 PM
File: _2017-09-01_

Last save: 9/1/2017 3:19:24 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58928

Last save: 9/1/2017 9:36:44 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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.80	0.251	88.45	59.85	1819.832	39.85	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.12	1.452	0.91	0.61	78.063	1.71	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	25.49	0.558	40.03	27.09	1570.788	34.39	0.
7	27.00	0.323	129.39	87.56	3468.683	75.95	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:51:47 PM
Printed by: wet

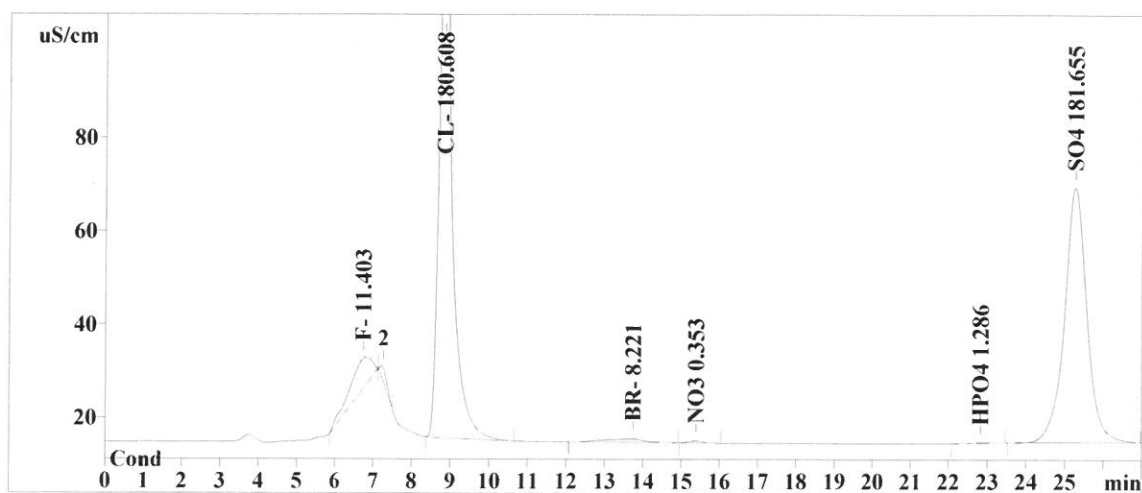
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Analysis from: 9/1/2017 3:22:30 PM
File: _2017-09-01_

Last save: 9/1/2017 3:49:20 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58929

Last save: 9/1/2017 9:36:44 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	6.74	0.625	6.42	3.20	256.743	4.72	0.
2	8.83	0.282	135.25	67.40	2864.310	52.65	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	13.73	1.153	0.78	0.39	54.056	0.99	0.
5	15.39	0.337	0.44	0.22	9.564	0.18	0.
6	22.80	0.702	0.09	0.05	3.894	0.07	0.
7	25.25	0.582	54.54	27.18	2215.454	40.72	0.
7	27.00	0.526	197.52	98.42	5404.020	99.33	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:52:00 PM
Printed by: wet

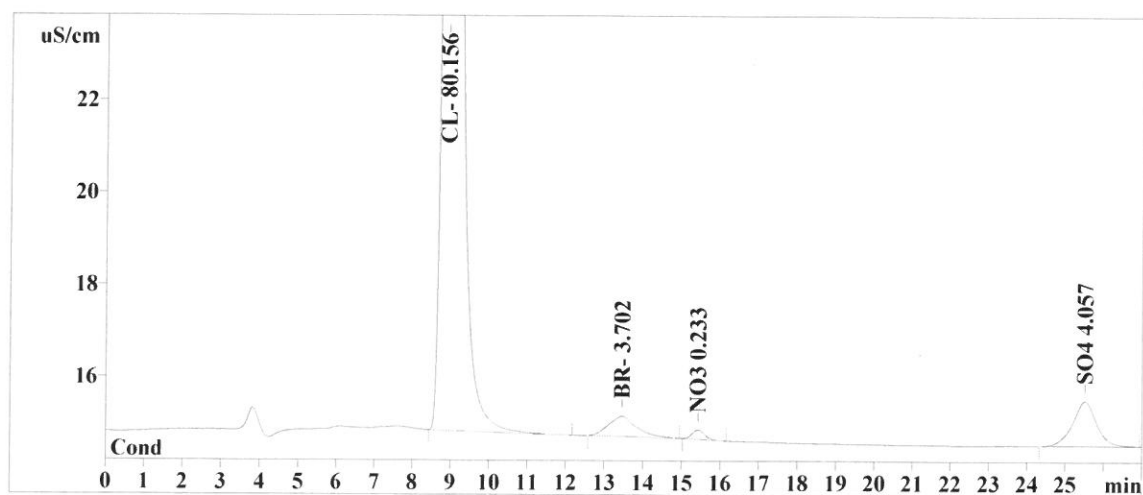
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File: _2017-09-01_

Last save: 9/1/2017 4:19:14 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58930

Last save: 9/1/2017 9:36:44 AM

SAMPLE:
: AK/AP
Vial number: 10
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	8.92	0.328	55.93	97.18	1270.374	94.80	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	13.47	0.747	0.44	0.77	22.310	1.66	0.
5	15.44	0.351	0.21	0.36	4.671	0.35	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.51	0.635	0.98	1.70	42.698	3.19	0.
7	27.00	0.295	57.56	100.00	1340.053	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:52:21 PM
Printed by: wet

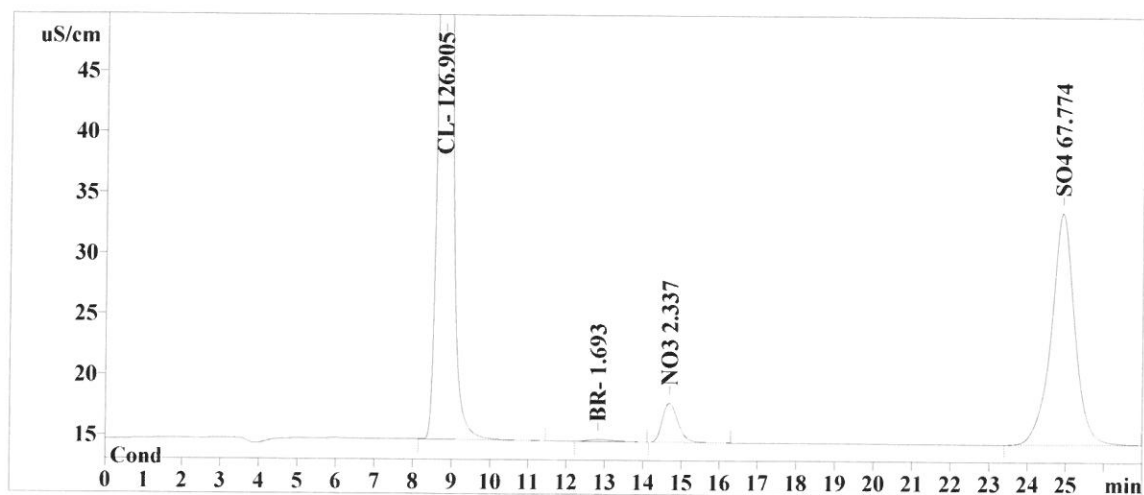
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Analysis from: 9/1/2017 4:22:20 PM
File: _2017-09-01_

Last save: 9/1/2017 4:57:28 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58931

Last save: 9/1/2017 9:36:44 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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.78	0.284	104.57	82.31	2012.171	68.60	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.83	0.734	0.17	0.14	8.196	0.28	0.
5	14.68	0.429	3.22	2.53	90.460	3.08	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.89	0.617	19.06	15.01	822.212	28.03	0.
7	27.00	0.295	127.02	99.99	2933.040	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:52:29 PM
 Printed by: wet

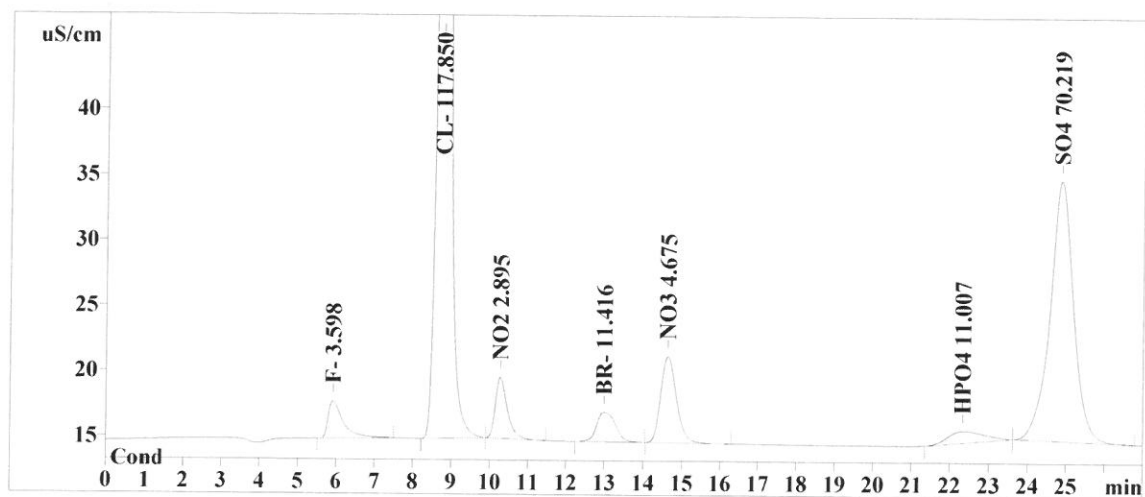
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 File: _2017-09-01_

Last save: 9/1/2017 5:19:04 PM

Method: ANIONS 08-22-17.mtw
 Run operator: wet
 Analysis number: 58932

Last save: 9/1/2017 9:36:44 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	5.91	0.383	2.85	2.13	79.423	2.46	0.
2	8.74	0.286	96.99	72.33	1868.480	57.98	0.
3	10.27	0.324	4.66	3.47	102.430	3.18	0.
4	12.98	0.531	2.25	1.67	76.504	2.37	0.
5	14.63	0.432	6.57	4.90	185.796	5.77	0.
6	22.31	1.041	0.91	0.68	58.059	1.80	0.
7	24.85	0.620	19.88	14.82	852.133	26.44	0.
7	27.00	0.516	134.11	100.00	3222.823	100.00	0.

This report has been created by IC Net
 METROHM LTD

Report date: 9/5/2017 4:54:16 PM
Printed by: wet

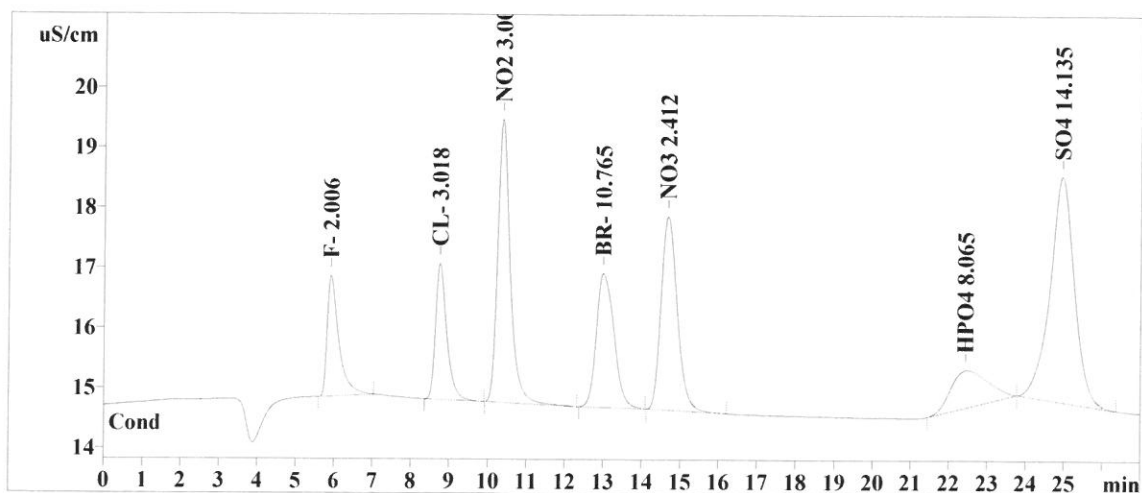
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Analysis from: 9/1/2017 5:22:11 PM
File: _2017-09-01_

Last save: 9/1/2017 5:49:00 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58933

Last save: 9/1/2017 9:36:44 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	5.91	0.306	2.01	10.67	43.261	7.60	0.
2	8.74	0.302	2.26	12.02	46.372	8.15	0.
3	10.35	0.326	4.71	25.04	106.538	18.71	0.
4	12.99	0.506	2.23	11.86	71.930	12.64	0.
5	14.67	0.442	3.22	17.12	93.530	16.43	0.
6	22.42	1.086	0.63	3.33	41.665	7.32	0.
7	24.94	0.643	3.75	19.95	165.993	29.16	0.
7	27.00	0.516	18.80	99.99	569.289	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:54:24 PM
Printed by: wet

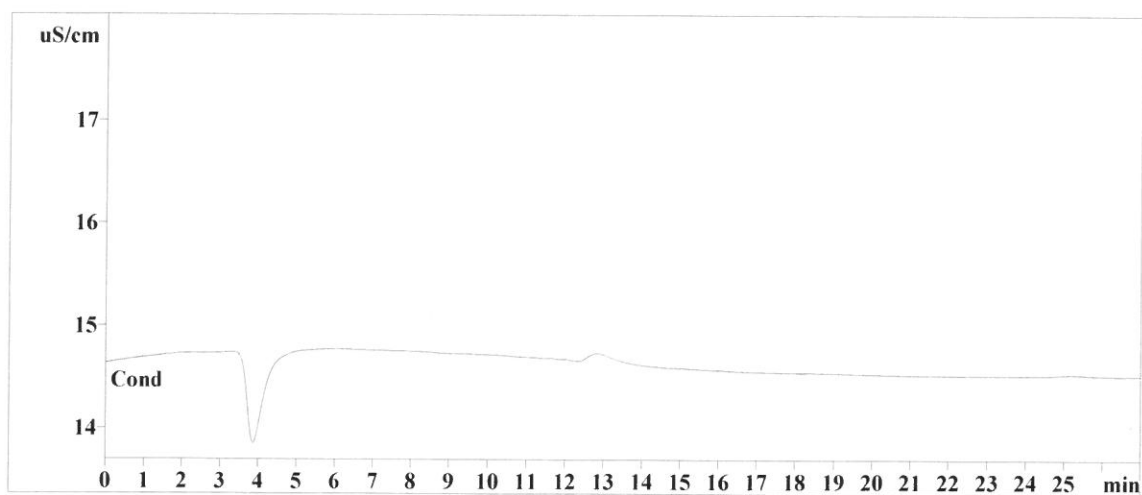
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File: _2017-09-01_

Last save: 9/5/2017 4:46:16 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58934

Last save: 8/29/2017 12:23:02 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: 9/5/2017 4:55:16 PM
Printed by: wet

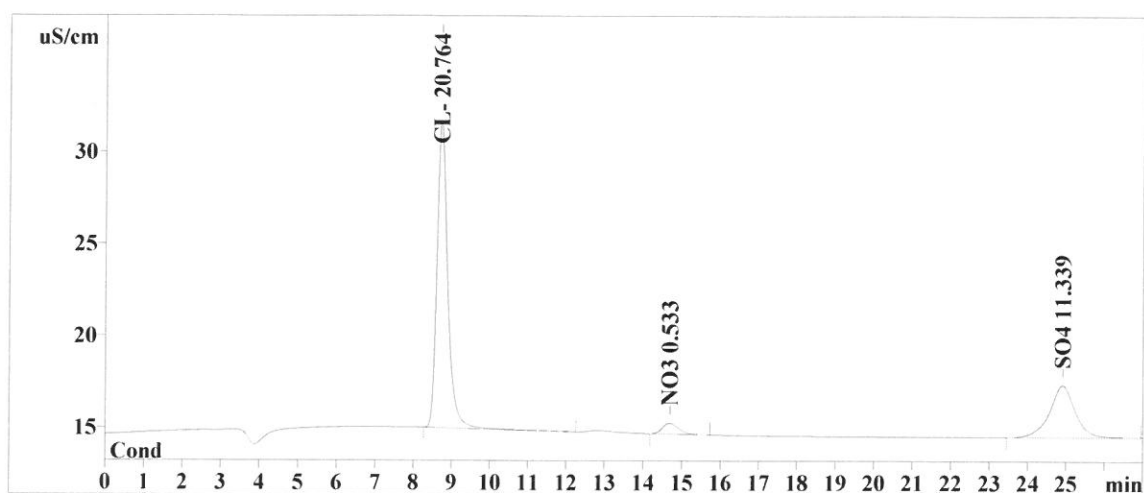
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File: _2017-09-01_

Last save: 9/5/2017 4:55:08 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58935

Last save: 9/1/2017 9:36:44 AM

SAMPLE:
: AK/AP
Vial number: 13
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	8.71	0.282	16.71	83.02	327.964	68.81	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	14.68	0.442	0.59	2.91	16.890	3.54	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.91	0.662	2.83	14.05	131.781	27.65	0.
7	27.00	0.198	20.13	99.99	476.636	100.00	0.

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METROHM LTD

Report date: 9/5/2017 4:56:00 PM
Printed by: wet

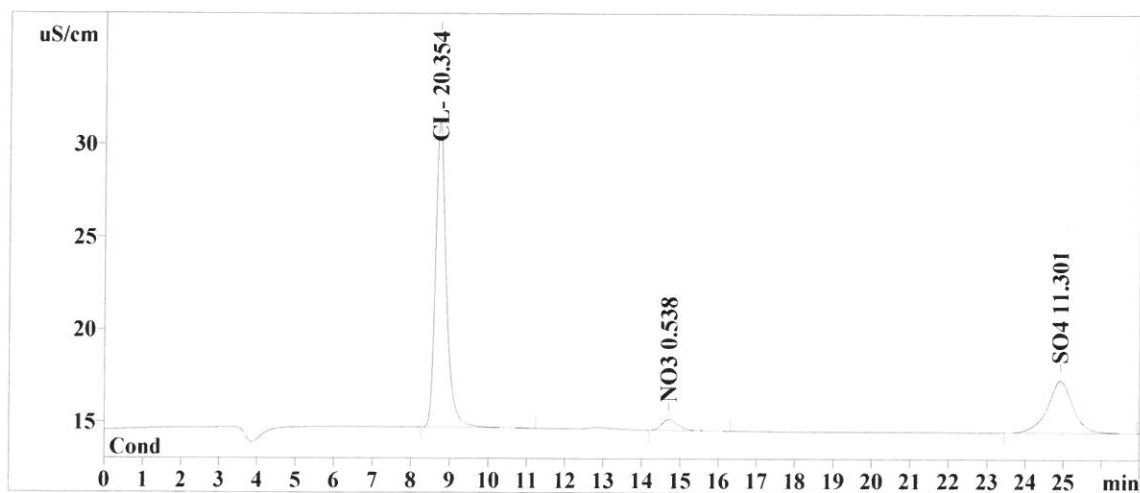
Ident: I5081-02DLX5
Analysis from: 9/1/2017 7:21:50 PM
File: _2017-09-01_

Last save: 9/5/2017 4:56:00 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58937

Last save: 9/1/2017 9:36:44 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	8.72	0.278	16.67	83.04	321.461	68.41	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	14.71	0.443	0.59	2.92	17.115	3.64	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.92	0.663	2.82	14.03	131.311	27.95	0.
7	27.00	0.198	20.08	100.00	469.887	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 4:59:09 PM
Printed by: wet

Ident: I5081-03DLX5
Analysis from: 9/1/2017 8:21:41 PM
File: _2017-09-01_

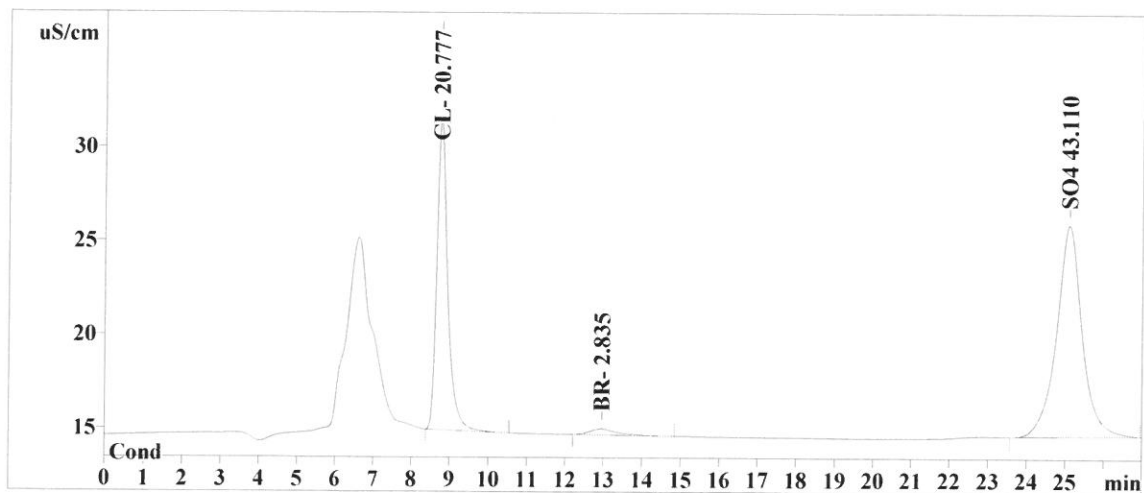
Last save: 9/5/2017 4:59:10 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58939

Last save: 9/1/2017 9:36:44 AM

SAMPLE:

: AK/AP
Vial number: 17
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	8.75	0.282	16.65	58.95	328.174	37.95	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	12.96	0.709	0.33	1.15	16.218	1.88	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	25.09	0.644	11.26	39.88	520.467	60.18	0.
7	27.00	0.234	28.24	99.99	864.859	100.00	0.

This report has been created by IC Net
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Report date: 9/5/2017 5:00:22 PM
Printed by: wet

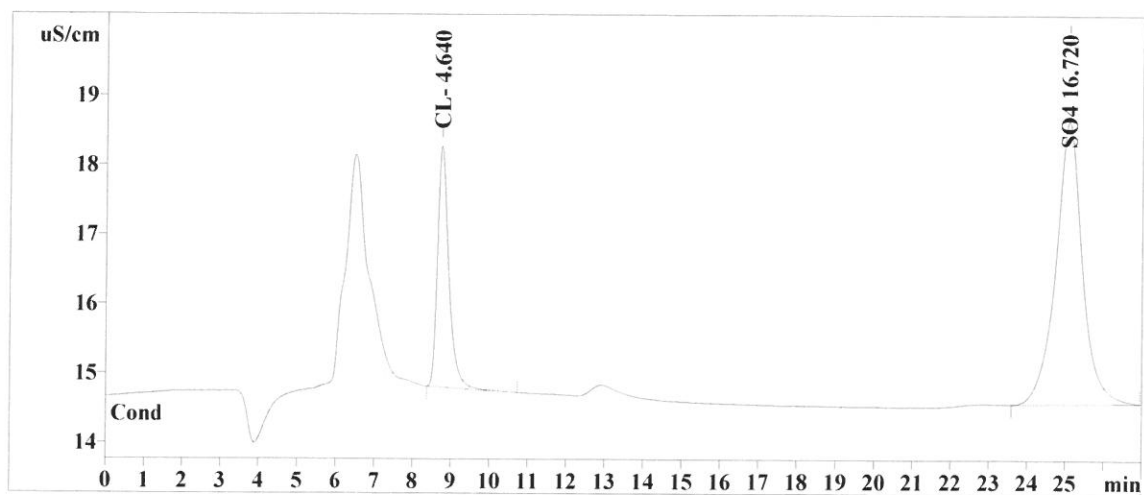
Ident: I5081-03DLX20
Analysis from: 9/1/2017 8:51:35 PM
File: _2017-09-01_

Last save: 9/5/2017 5:00:22 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58940

Last save: 9/1/2017 9:36:44 AM

SAMPLE:
: AK/AP
Vial number: 18
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	8.74	0.302	3.47	46.00	72.112	26.74	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	25.07	0.678	4.08	53.98	197.608	73.26	0.
7	27.00	0.140	7.55	99.99	269.721	100.00	0.

This report has been created by IC Net
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Report date: 9/5/2017 5:01:37 PM
Printed by: wet

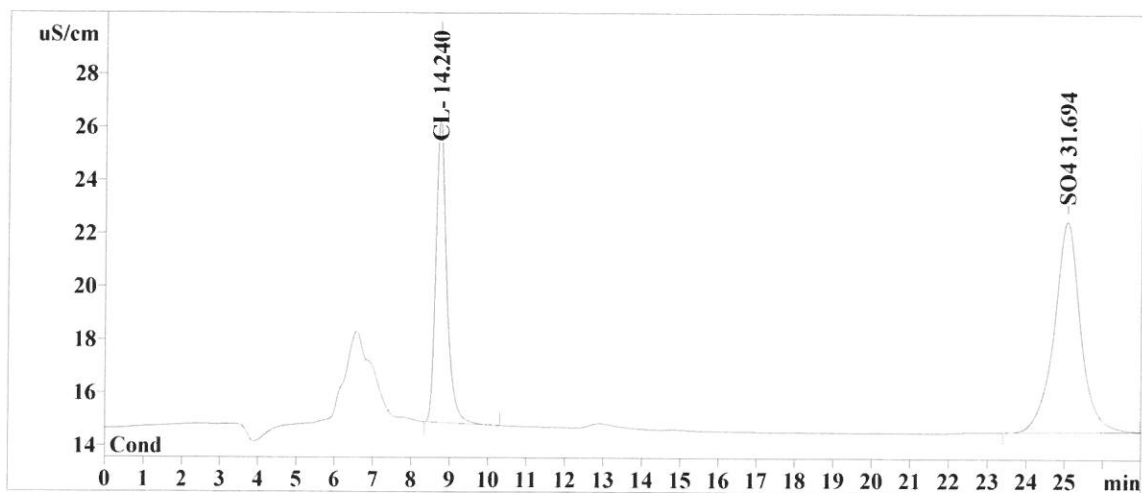
Ident: I5081-04DLX10
Analysis from: 9/1/2017 9:21:31 PM
File: _2017-09-01_

Last save: 9/5/2017 5:01:38 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58941

Last save: 9/1/2017 9:36:44 AM

SAMPLE:
: AK/AP
Vial number: 19
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	8.73	0.283	11.47	59.14	224.442	37.08	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	25.05	0.675	7.93	40.86	380.803	62.92	0.
7	27.00	0.137	19.40	100.00	605.245	100.00	0.

This report has been created by IC Net
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Report date: 9/5/2017 5:02:05 PM
Printed by: wet

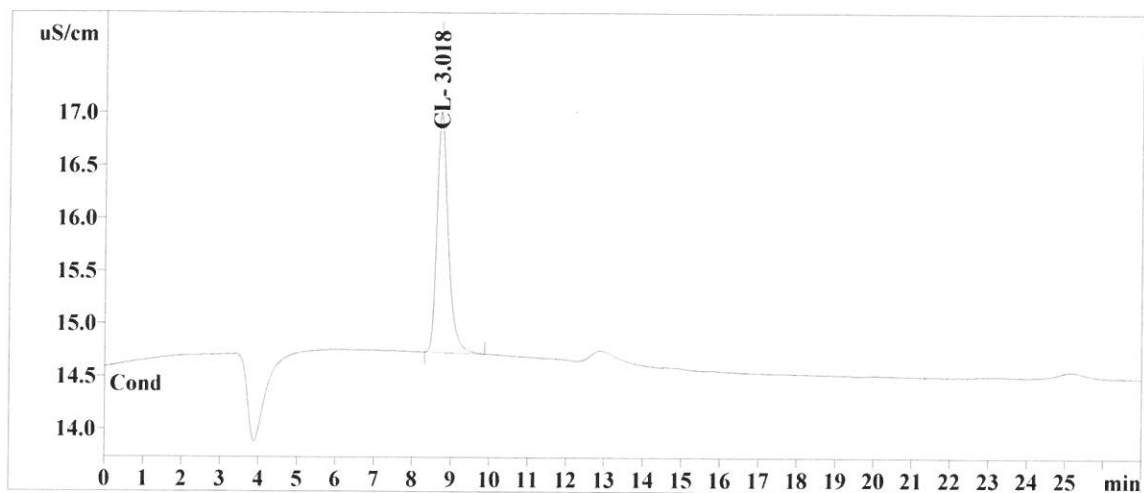
Ident: I5078-03DLX20
Analysis from: 9/1/2017 10:21:20 PM
File: _2017-09-01_

Last save: 9/5/2017 4:55:08 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58943

Last save: 9/1/2017 9:36:44 AM

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	8.72	0.298	2.28	99.97	46.370	100.00	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	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	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	27.00	0.043	2.28	99.97	46.370	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 5:02:16 PM
Printed by: wet

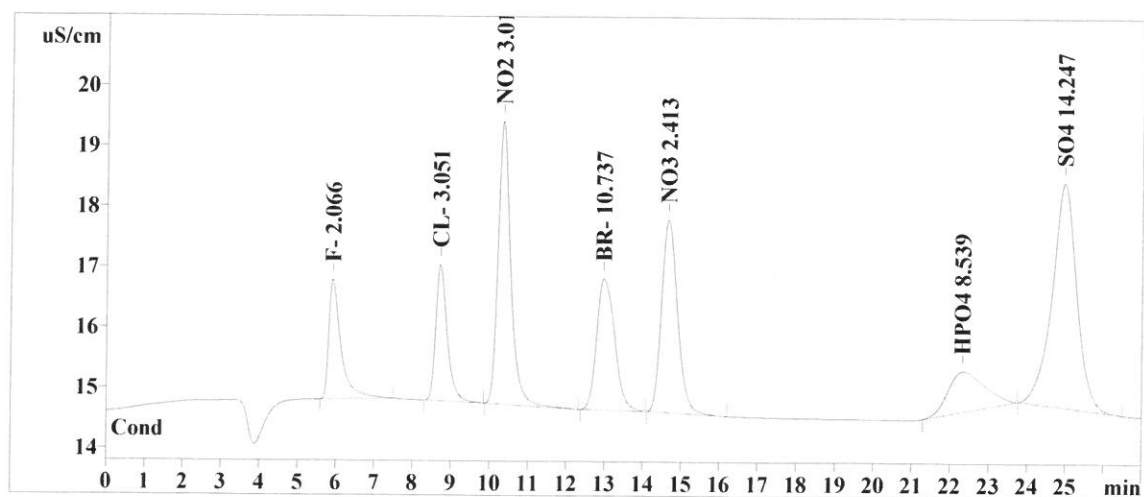
Ident: CCV
Analysis from: 9/1/2017 10:51:15 PM
File: _2017-09-01_

Last save: 9/1/2017 11:18:04 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58944

Last save: 9/1/2017 9:36:44 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	5.90	0.309	1.97	10.58	44.609	7.75	0.
2	8.71	0.306	2.25	12.06	46.898	8.15	0.
3	10.32	0.331	4.68	25.08	107.027	18.60	0.
4	12.96	0.519	2.17	11.66	71.731	12.46	0.
5	14.65	0.446	3.19	17.08	93.548	16.26	0.
6	22.31	1.052	0.67	3.60	44.309	7.70	0.
7	24.96	0.653	3.72	19.93	167.352	29.08	0.
7	27.00	0.516	18.65	99.99	575.474	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/5/2017 5:02:24 PM
Printed by: wet

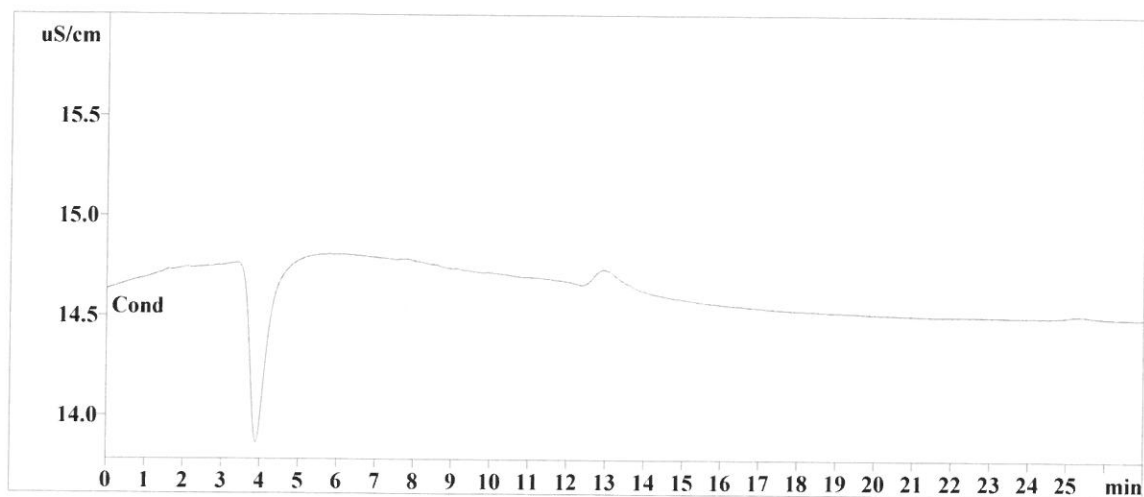
Ident: CCB
Analysis from: 9/1/2017 11:21:10 PM
File: _2017-09-01_

Last save: 9/5/2017 4:46:16 PM

Method: ANIONS 08-22-17.mtw
Run operator: wet
Analysis number: 58945

Last save: 8/29/2017 12:23:02 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