

Clear table

IC4

3000

03-28-19

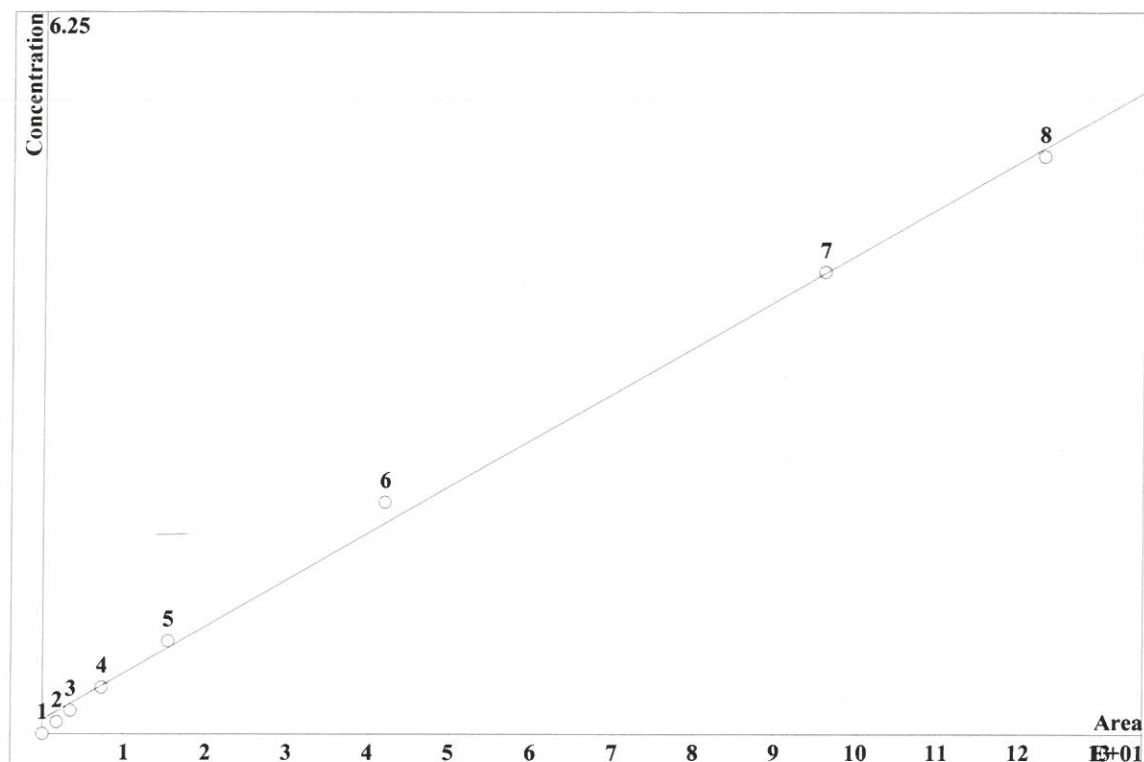
9

ident	concentra tion 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 Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-05_	3/5/19 16:02		AK/AP
STD2	0.1950	0.2100	0.2250	0.7370	0.1900	0.0560	1.2360	_2019-03-05_	3/5/19 16:31		AK/AP
STD3	0.2630	0.3490	0.3570	1.1810	0.3000	0.4170	1.8370	_2019-03-05_	3/5/19 17:01		AK/AP
STD4	0.4150	0.6220	0.6150	2.0530	0.5150	1.0860	3.1590	_2019-03-05_	3/5/19 17:30		AK/AP
STD5	0.7440	1.1630	1.1610	3.8570	0.9630	2.1770	5.7470	_2019-03-05_	3/5/19 18:00		AK/AP
STD6	1.8190	2.8790	2.8470	9.5650	2.3800	5.1210	14.0260	_2019-03-05_	3/5/19 18:29		AK/AP
STD7	3.9910	5.9160	5.9430	19.7310	4.9180	9.8910	29.5330	_2019-03-05_	3/5/19 18:59		AK/AP
STD8	5.0720	7.6110	7.6010	25.3750	6.3580	12.5020	38.2110	_2019-03-05_	3/5/19 19:28		AK/AP
ICV	2.0300	2.9500	2.9330	9.6960	2.4100	5.4390	14.2470	_2019-03-05_	3/5/19 19:57		AK/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-05_	3/5/19 20:27		AK/AP
CCV	1.8670	2.9850	2.9300	9.9260	2.4180	4.8990	14.4100	_2019-03-20_	3/20/19 8:42		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 9:11		AK/AP
LB101508BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 9:41		AK/AP
LB101508BSW	1.8960	2.7860	2.7450	9.2870	2.2800	4.9860	13.6230	_2019-03-20_	3/20/19 10:10		AK/AP
K1833-05	1.1820	242.3060	0.0000	4.1490	0.0000	0.0000	9.7460	_2019-03-20_	3/20/19 10:55		AK/AP
K1833-15	0.0000	0.0000	2.7640	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 11:54		AK/AP
K1833-05DLX50	0.0000	3.2150	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 12:23		AK/AP
K1833-11	0.0000	44.4460	0.0000	0.0000	16.2370	3.4480	0.0000	_2019-03-20_	3/20/19 12:53		AK/AP
K1833-11DLX5	0.0000	7.5390	0.0000	0.0000	2.8420	0.9030	0.0000	_2019-03-20_	3/20/19 13:22		AK/AP
K2026-01	0.0000	0.2370	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 13:51		AK/AP
K2026-02	0.0000	0.1240	0.0000	0.0000	0.0990	0.0000	0.0000	_2019-03-20_	3/20/19 14:21		AK/AP
K2026-03	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 14:50		AK/AP
CCV	1.9640	2.9580	2.9530	10.0470	2.4460	5.1660	14.5020	_2019-03-20_	3/20/19 15:20		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 15:49		AK/AP
K2026-03DUP	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 16:19		AK/AP
K2026-03MS	1.8520	2.9090	2.8350	9.5790	2.3950	4.9960	14.2290	_2019-03-20_	3/20/19 16:48		AK/AP
K2026-03MSD	1.8430	2.8870	2.8290	9.4730	2.3620	4.9350	14.0720	_2019-03-20_	3/20/19 17:18		AK/AP
CCV	1.8520	2.9480	2.9010	9.7150	2.3890	4.8680	14.2490	_2019-03-20_	3/20/19 17:47		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-03-20_	3/20/19 18:16		AK/AP

CALIBRATION OF COMPONENT F-

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 0.804925 \cdot A + 2.50321$
 RSD: 5.846 %
 Correlation coefficient: 0.998841

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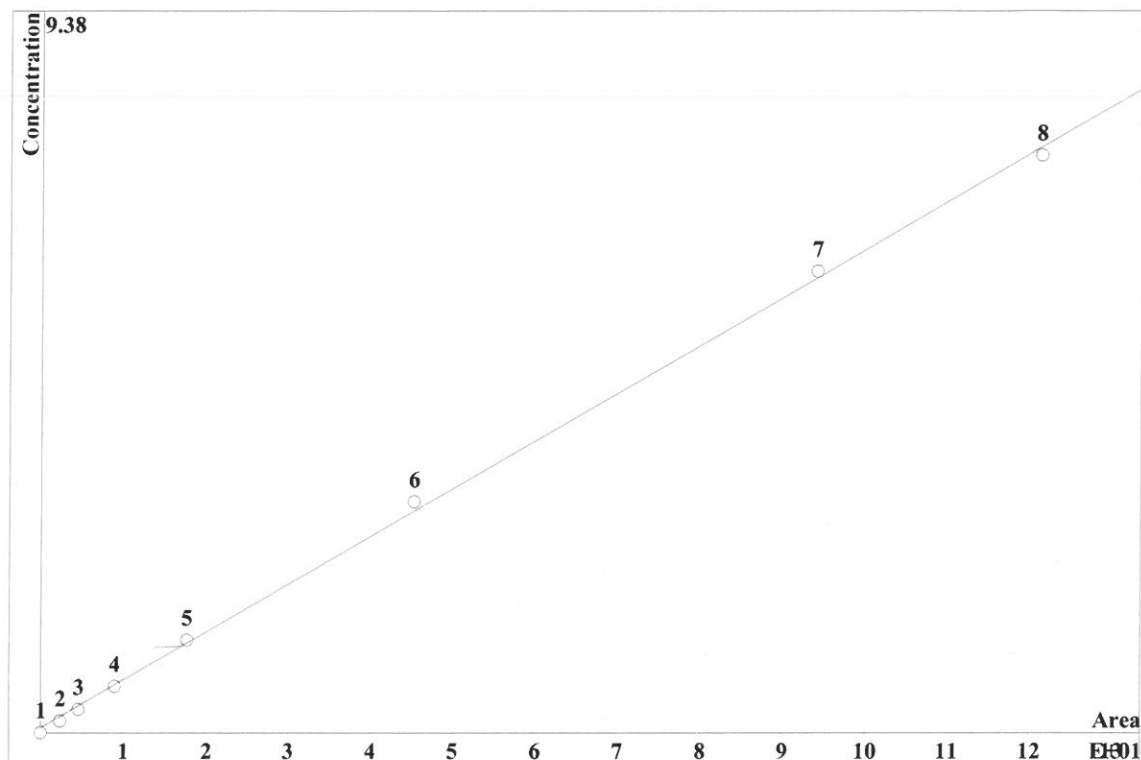
K3 = 0 K2 = 0 K1 = 0.804925 K0 = 2.50321

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	0.05848	1.744	0.1	20	5.913		Yes
3	0.1245	3.437	0.2	20	5.913		Yes
4	0.2695	7.209	0.4	20	5.913		Yes
5	0.5744	15.37	0.8	20	5.913		Yes
6	1.596	42.09	2	20	5.913		Yes
7	3.504	96.06	4	20	5.913		Yes
8	4.463	122.9	5	20	5.913		Yes

CALIBRATION OF COMPONENT CL-

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 1.24374 \cdot A + 1.27387$
 RSD: 3.431 %
 Correlation coefficient: 0.999601



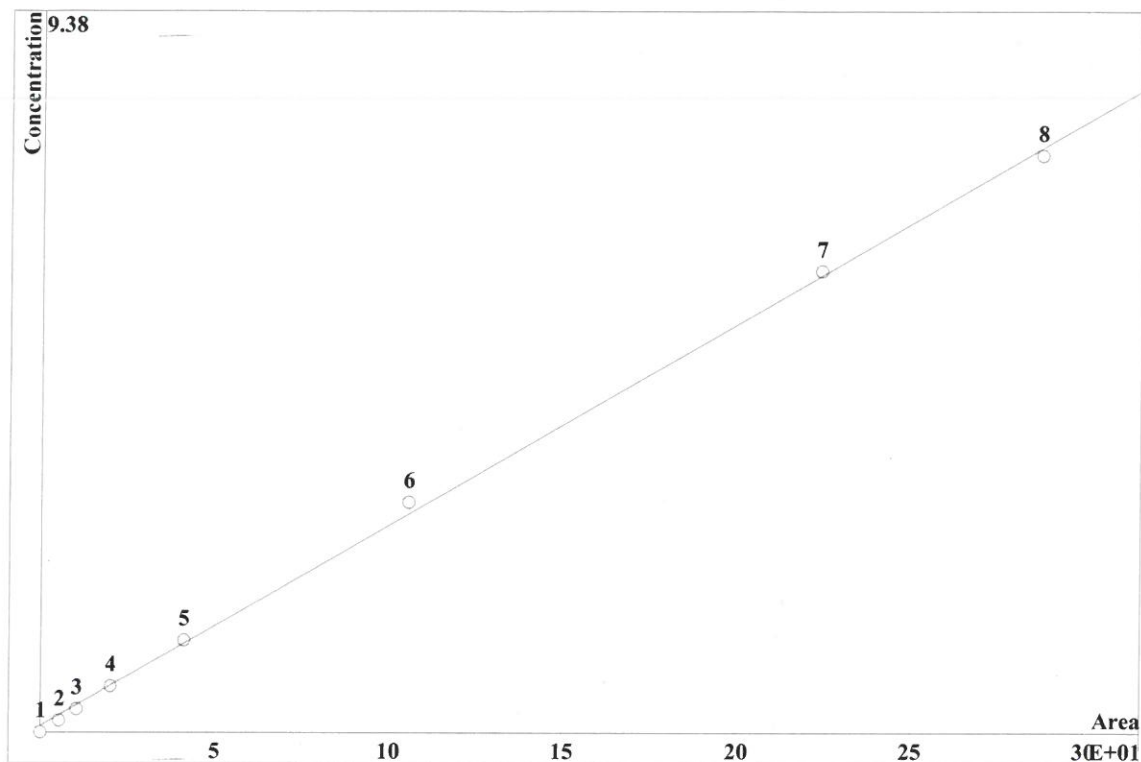
K3 = 0 K2 = 0 K1 = 1.24374 K0 = 1.27387

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	0.1378	2.359	0.15	20	8.858			Yes
3	0.2672	4.595	0.3	20	8.858			Yes
4	0.5199	8.974	0.6	20	8.858			Yes
5	1.042	17.67	1.2	20	8.858			Yes
6	2.693	45.27	3	20	8.858			Yes
7	5.632	94.1	6	20	8.858			Yes
8	7.317	121.4	7.5	20	8.858			Yes

CALIBRATION OF COMPONENT NO2

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 0.523191 \cdot A + 1.70358$
 RSD: 3.640 %
 Correlation coefficient: 0.999551



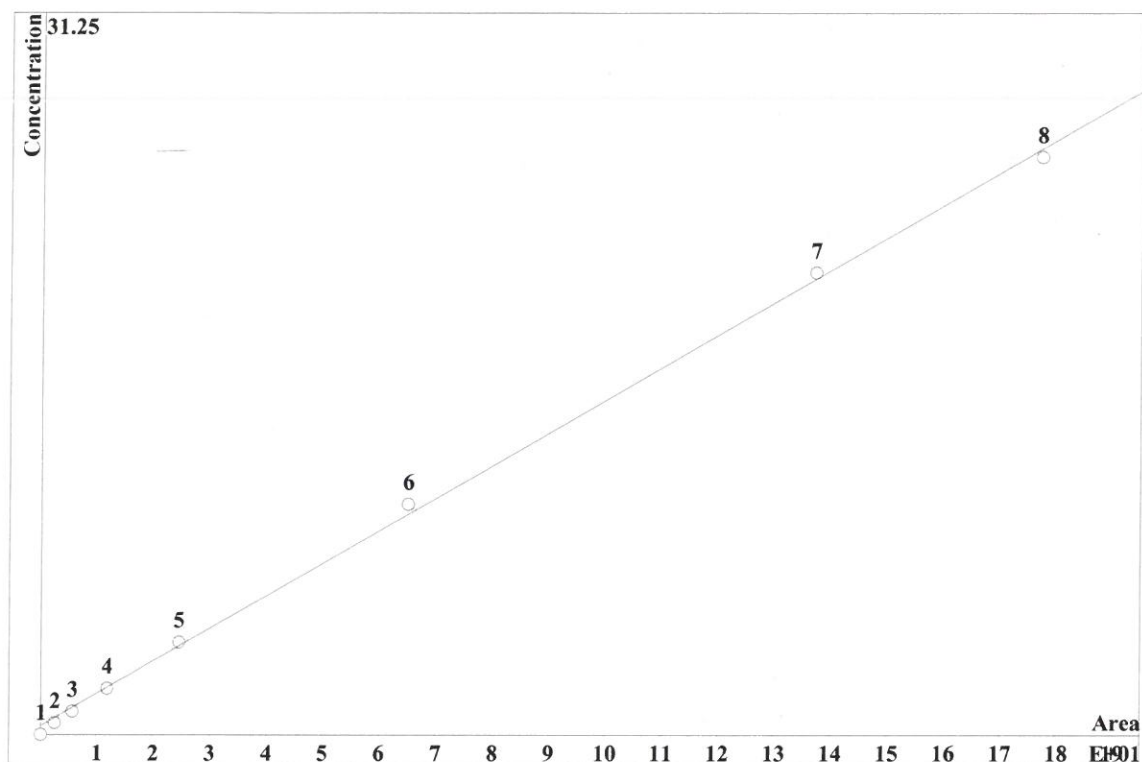
K3 = 0 K2 = 0 K1 = 0.523191 K0 = 1.70358

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	0.2585	5.357	0.15	20	10.65			Yes
3	0.5158	10.38	0.3	20	10.65			Yes
4	1.042	20.25	0.6	20	10.65			Yes
5	2.128	41.14	1.2	20	10.65			Yes
6	5.551	105.6	3	20	10.65			Yes
7	11.6	223.9	6	20	10.65			Yes
8	14.93	287.3	7.5	20	10.65			Yes

CALIBRATION OF COMPONENT BR-

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 2.82009 \cdot A + 7.76849$
 RSD: 3.594 %
 Correlation coefficient: 0.999562



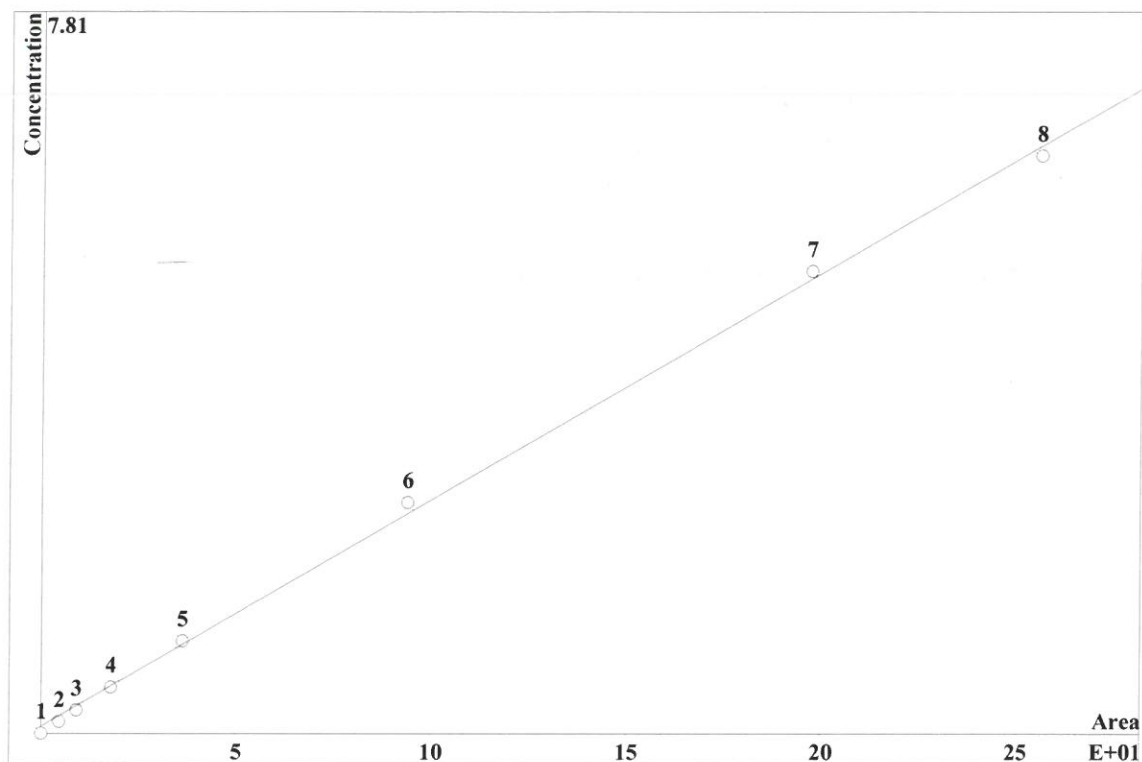
K3 = 0 K2 = 0 K1 = 2.82009 K0 = 7.76849

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	0.1234	2.473	0.5	20	13.72			Yes
3	0.2646	5.624	1	20	13.72			Yes
4	0.5553	11.81	2	20	13.72			Yes
5	1.14	24.6	4	20	13.72			Yes
6	2.942	65.08	10	20	13.72			Yes
7	5.927	137.2	20	20	13.72			Yes
8	7.449	177.2	25	20	13.72			Yes

CALIBRATION OF COMPONENT NO3

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 0.490563 \cdot A + 1.54373$
 RSD: 4.068 %
 Correlation coefficient: 0.999439



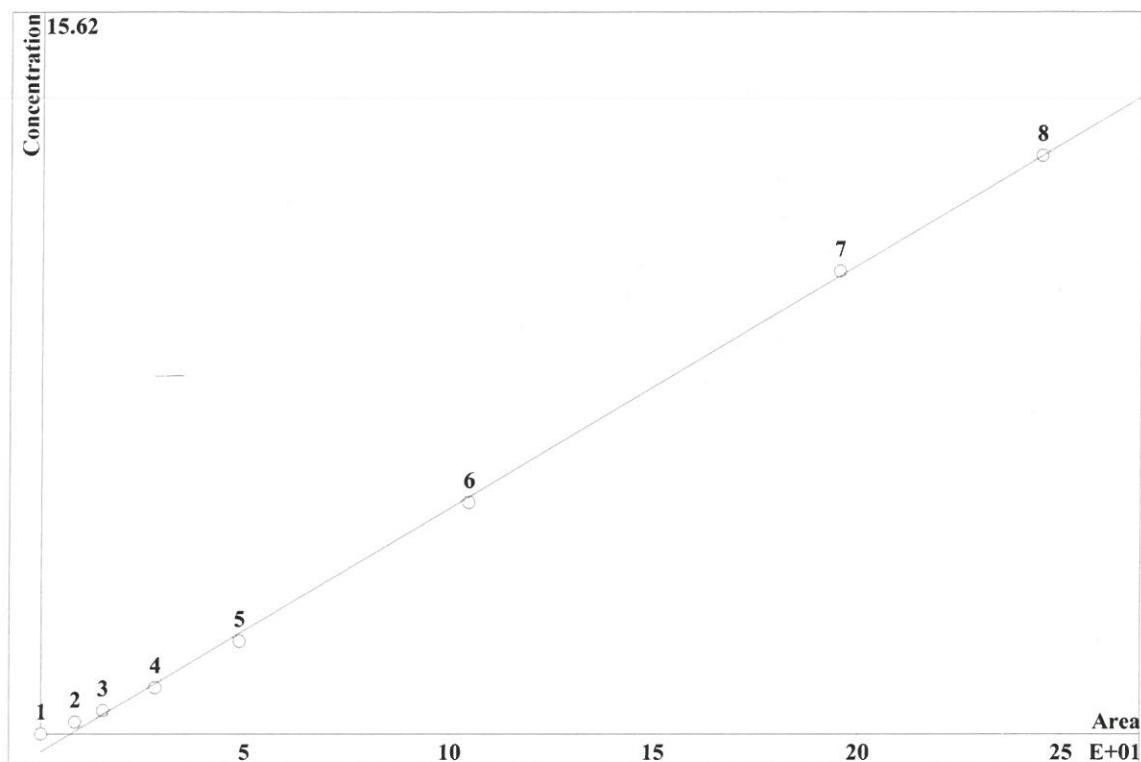
K3 = 0 K2 = 0 K1 = 0.490563 K0 = 1.54373

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	0.1812	4.602	0.125	20	15.65			Yes
3	0.3607	9.092	0.25	20	15.65			Yes
4	0.7284	17.86	0.5	20	15.65			Yes
5	1.48	36.13	1	20	15.65			Yes
6	3.872	93.87	2.5	20	15.65			Yes
7	8.278	197.4	5	20	15.65			Yes
8	10.82	256.1	6.25	20	15.65			Yes

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 1.05291 \cdot A - 7.73973$
 RSD: 3.321 %
 Correlation coefficient: 0.999626



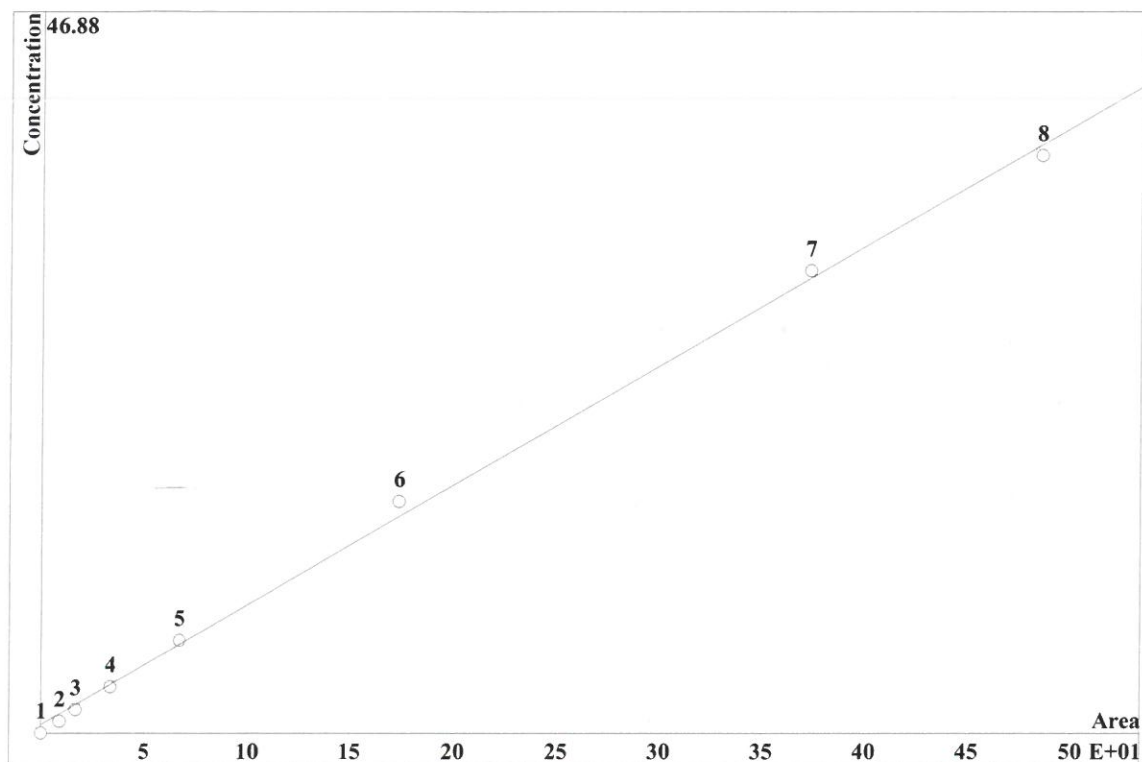
K3 = 0 K2 = 0 K1 = 1.05291 K0 = -7.73973

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	0.185	8.412	0.25	20	21.48	Yes		
3	0.3481	15.27	0.5	20	21.48	Yes		
4	0.6551	27.98	1	20	21.48	Yes		
5	1.199	48.71	2	20	21.48	Yes		
6	2.752	104.6	5	20	21.48	Yes		
7	5.446	195.2	10	20	21.48	Yes		
8	6.973	244.8	12.5	20	21.48	Yes		

CALIBRATION OF COMPONENT SO4

Method: ANIONS 03-05-19.mtw
 Equation: $Q = 1.55143 \cdot A + 10.9562$
 RSD: 4.851 %
 Correlation coefficient: 0.999202



K3 = 0 K2 = 0 K1 = 1.55143 K0 = 10.9562

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	0.276	8.873	0.75	20	25.17			Yes
3	0.539	16.62	1.5	20	25.17			Yes
4	1.084	33.66	3	20	25.17			Yes
5	2.197	67.03	6	20	25.17			Yes
6	5.818	173.8	15	20	25.17			Yes
7	12.54	373.7	30	20	25.17			Yes
8	16.37	485.5	37.5	20	25.17			Yes

Report date: 3/6/2019 8:51:35 AM
Printed by: wet

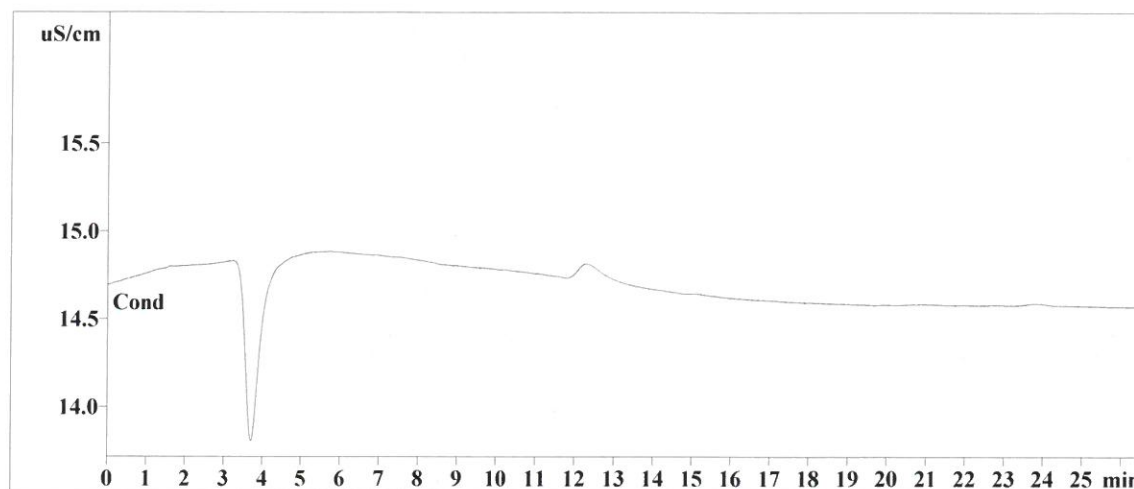
Ident: STD1
Analysis from: 3/5/2019 4:02:28 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65511

Last save: 3/5/2019 7:25:20 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: 3/6/2019 8:51:47 AM
Printed by: wet

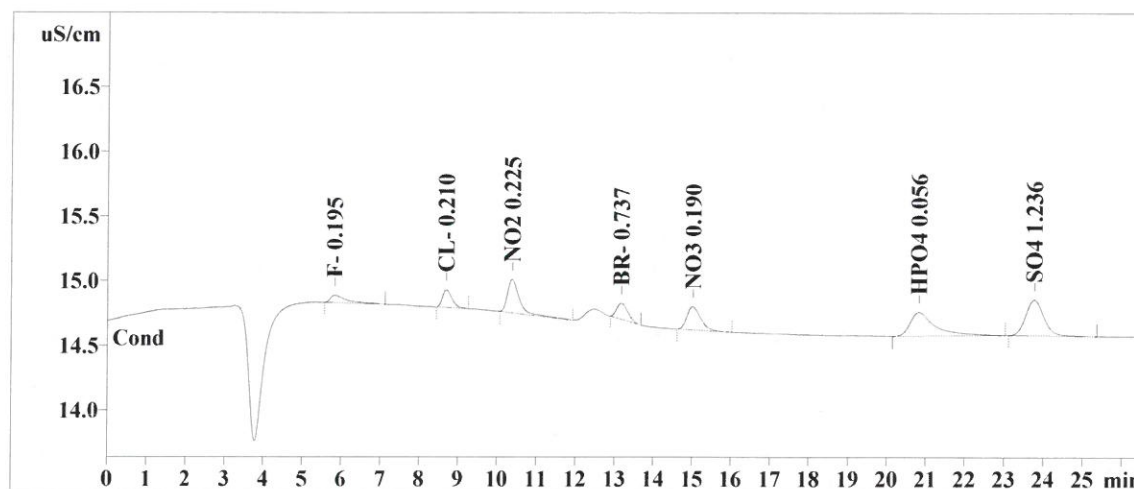
Ident: STD2
Analysis from: 3/5/2019 4:31:54 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65512

Last save: 3/5/2019 7:25:20 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	5.82	0.390	0.06	4.74	1.744	5.16	0.
2	8.70	0.260	0.14	11.22	2.359	6.98	0.
3	10.38	0.289	0.26	21.16	5.357	15.84	0.
4	13.17	0.321	0.12	10.08	2.473	7.31	0.
5	15.01	0.385	0.18	14.80	4.602	13.61	0.
6	20.82	0.594	0.18	15.11	8.412	24.87	0.
7	23.76	0.483	0.28	22.57	8.873	26.24	0.
7	26.50	0.389	1.22	99.68	33.820	100.00	0.

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Report date: 3/6/2019 8:51:55 AM
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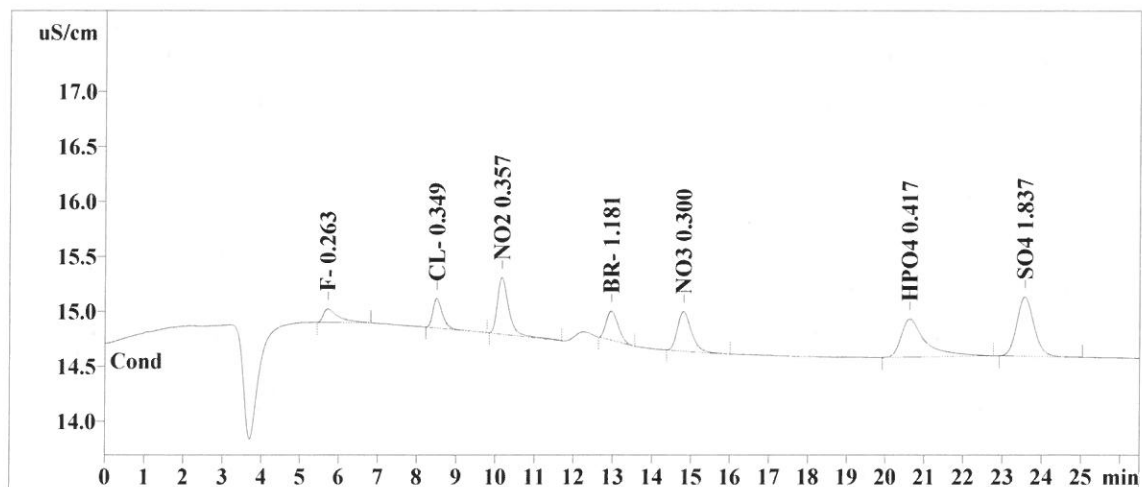
Ident: STD3
Analysis from: 3/5/2019 5:01:19 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65513

Last save: 3/5/2019 7:25:20 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	5.70	0.378	0.12	5.12	3.437	5.29	0.
2	8.50	0.257	0.27	11.02	4.595	7.07	0.
3	10.16	0.287	0.52	21.30	10.378	15.96	0.
4	12.96	0.336	0.26	10.91	5.624	8.65	0.
5	14.80	0.381	0.36	14.90	9.092	13.99	0.
6	20.62	0.573	0.35	14.37	15.268	23.49	0.
7	23.56	0.469	0.54	22.25	16.617	25.56	0.
7	26.50	0.383	2.42	99.87	65.009	100.00	0.

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Report date: 3/6/2019 8:52:02 AM
Printed by: wet

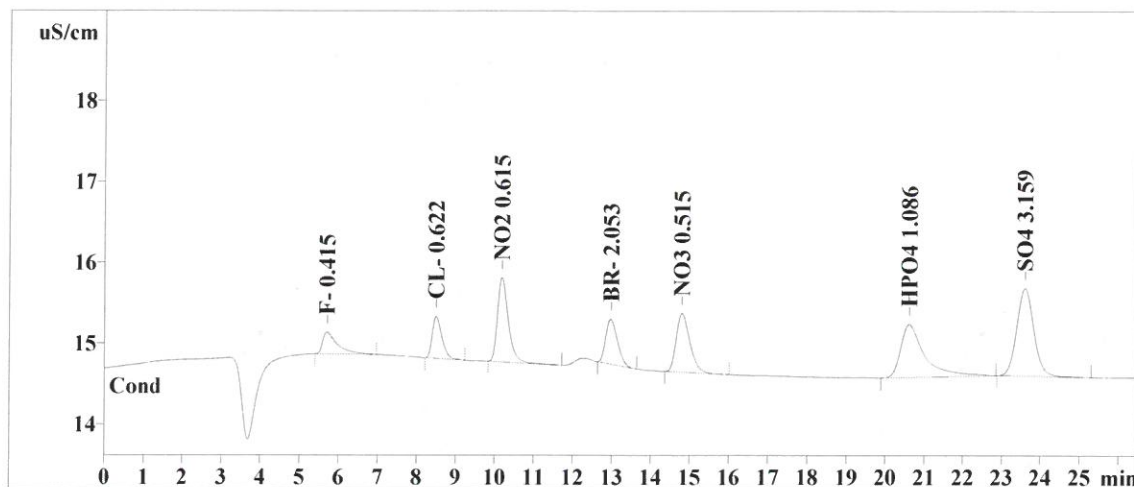
Ident: STD4
Analysis from: 3/5/2019 5:30:44 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65514

Last save: 3/5/2019 7:25:20 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	5.69	0.365	0.27	5.54	7.209	5.64	0.
2	8.50	0.262	0.52	10.69	8.974	7.03	0.
3	10.18	0.286	1.04	21.47	20.252	15.85	0.
4	12.97	0.334	0.55	11.43	11.807	9.24	0.
5	14.80	0.374	0.73	14.99	17.858	13.98	0.
6	20.61	0.561	0.65	13.48	27.979	21.90	0.
7	23.59	0.471	1.08	22.32	33.663	26.35	0.
7	26.50	0.379	4.85	99.92	127.743	100.00	0.

This report has been created by IC Net
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Report date: 3/6/2019 8:52:08 AM
Printed by: wet

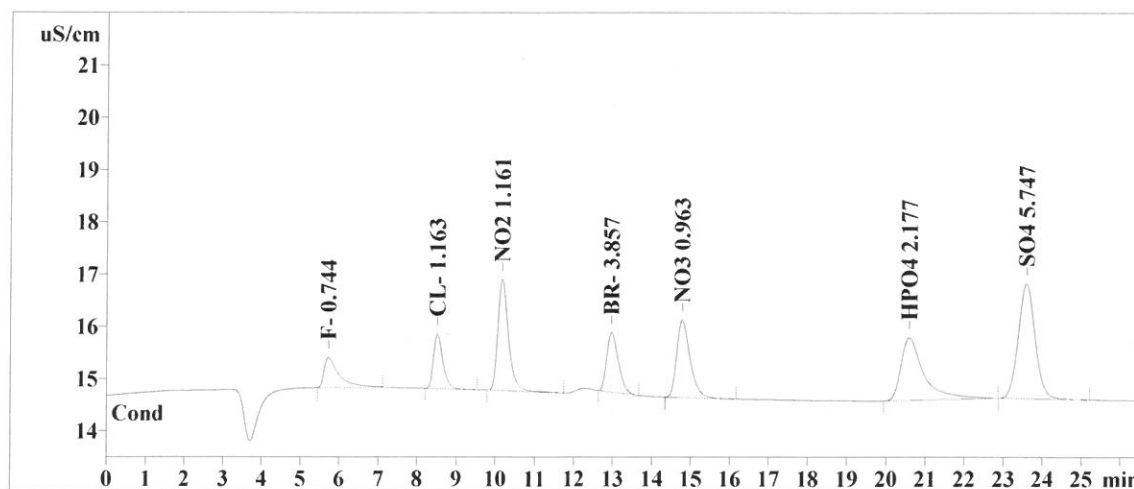
Ident: STD5
Analysis from: 3/5/2019 6:00:09 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65515

Last save: 3/5/2019 7:25:20 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	5.71	0.363	0.57	5.87	15.370	6.13	0.
2	8.51	0.254	1.04	10.68	17.672	7.05	0.
3	10.17	0.284	2.13	21.80	41.139	16.41	0.
4	12.97	0.337	1.14	11.68	24.601	9.82	0.
5	14.78	0.370	1.48	15.16	36.130	14.41	0.
6	20.59	0.537	1.20	12.29	48.709	19.43	0.
7	23.57	0.465	2.20	22.50	67.028	26.74	0.
7	26.50	0.373	9.76	99.98	250.651	100.00	0.

This report has been created by IC Net
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Report date: 3/6/2019 8:52:15 AM
Printed by: wet

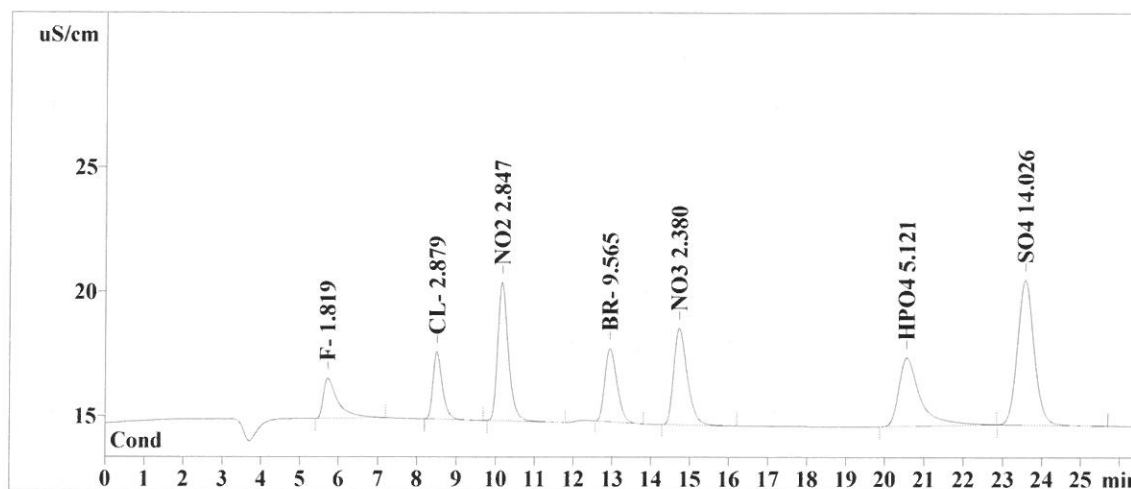
Ident: STD6
Analysis from: 3/5/2019 6:29:34 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65516

Last save: 3/5/2019 7:25:20 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	5.71	0.358	1.60	6.32	42.090	6.68	0.
2	8.50	0.251	2.69	10.67	45.265	7.18	0.
3	10.15	0.282	5.55	22.00	105.573	16.75	0.
4	12.94	0.345	2.94	11.66	65.077	10.33	0.
5	14.72	0.367	3.87	15.35	93.867	14.89	0.
6	20.56	0.508	2.75	10.91	104.625	16.60	0.
7	23.56	0.454	5.82	23.06	173.754	27.57	0.
7	26.50	0.366	25.22	99.99	630.251	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/6/2019 8:52:22 AM
Printed by: wet

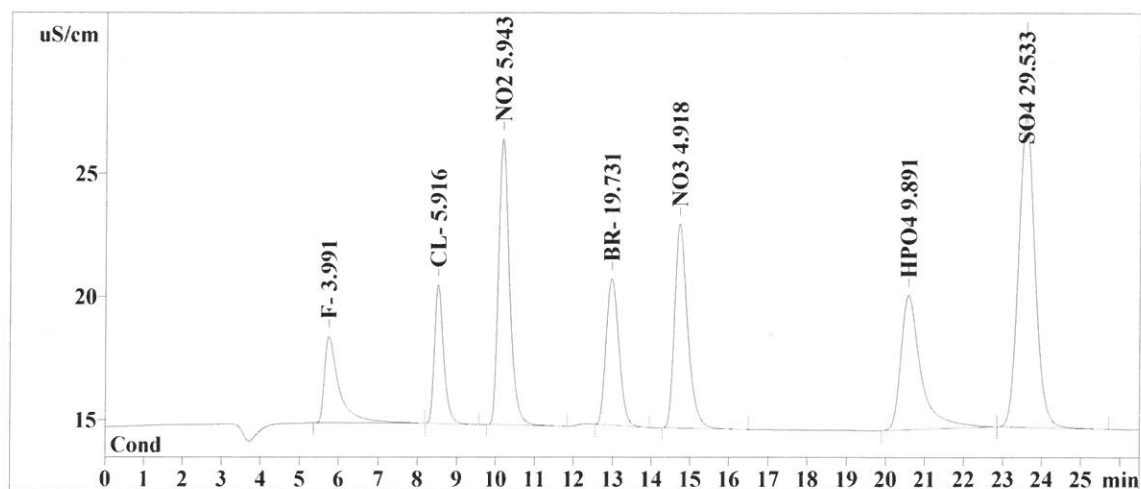
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Analysis from: 3/5/2019 6:59:00 PM
File: _2019-03-05_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65517

Last save: 3/5/2019 7:25:20 PM

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	5.73	0.357	3.50	6.62	96.056	7.29	0.
2	8.53	0.249	5.63	10.64	94.102	7.14	0.
3	10.17	0.287	11.60	21.91	223.939	17.00	0.
4	12.97	0.363	5.93	11.20	137.180	10.41	0.
5	14.72	0.358	8.28	15.64	197.370	14.98	0.
6	20.57	0.486	5.45	10.29	195.238	14.82	0.
7	23.58	0.452	12.54	23.69	373.664	28.36	0.
7	26.50	0.365	52.92	100.00	1317.548	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/6/2019 8:52:32 AM
Printed by: wet

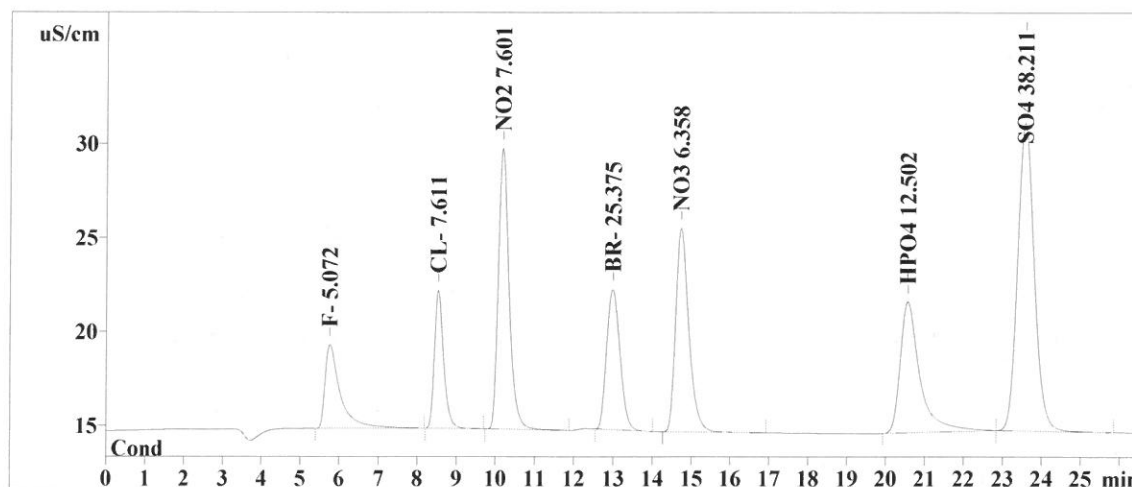
Ident: STD8
Analysis from: 3/5/2019 7:28:25 PM
File: _2019-03-05_

Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65518

Last save: 3/6/2019 8:41:34 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	5.75	0.366	4.46	6.53	122.913	7.25	0.
2	8.53	0.247	7.32	10.71	121.372	7.16	0.
3	10.17	0.285	14.93	21.85	287.324	16.95	0.
4	12.98	0.375	7.45	10.90	177.205	10.45	0.
5	14.71	0.356	10.82	15.84	256.077	15.11	0.
6	20.55	0.478	6.97	10.21	244.820	14.44	0.
7	23.56	0.451	16.37	23.95	485.529	28.64	0.
7	26.50	0.365	68.32	100.00	1695.239	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/6/2019 8:52:42 AM
Printed by: wet

Ident: ICV
Analysis from: 3/5/2019 7:57:50 PM
File: _2019-03-05_

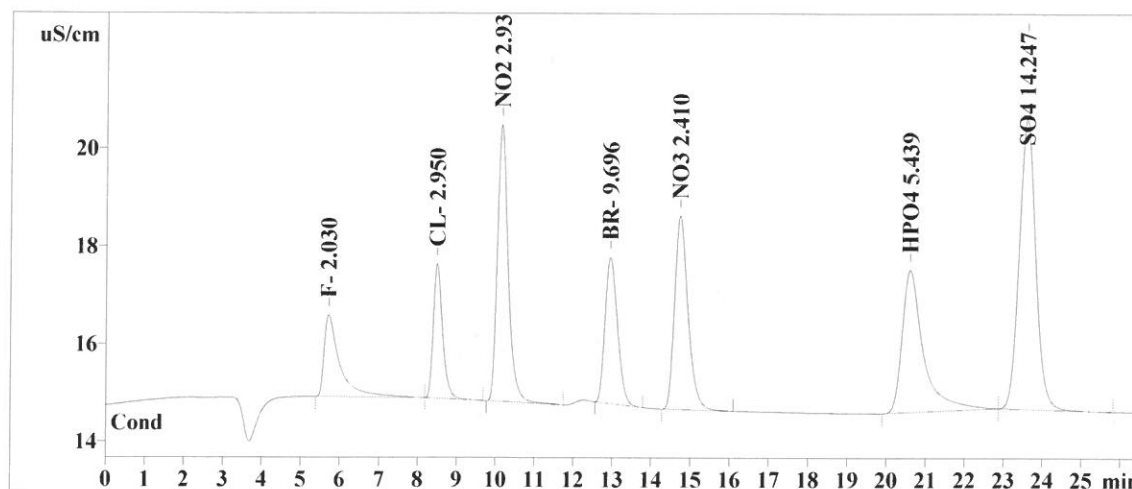
Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65519

Last save: 3/6/2019 8:41:34 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	5.70	0.364	1.66	6.43	47.318	7.27	0.
2	8.48	0.252	2.75	10.63	46.407	7.13	0.
3	10.14	0.284	5.66	21.88	108.852	16.72	0.
4	12.94	0.345	2.99	11.56	66.007	10.14	0.
5	14.72	0.364	3.95	15.29	95.092	14.61	0.
6	20.59	0.509	2.91	11.25	110.672	17.00	0.
7	23.58	0.452	5.93	22.95	176.602	27.13	0.
7	26.50	0.367	25.85	99.99	650.950	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/6/2019 8:52:53 AM
Printed by: wet

Ident: ICB
Analysis from: 3/5/2019 8:27:15 PM
File: _2019-03-05_

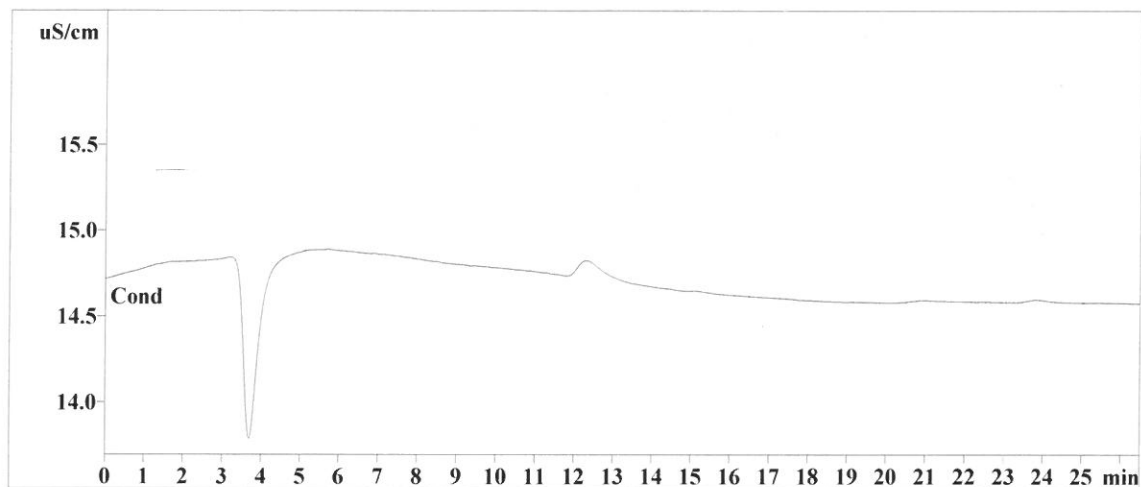
Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65520

Last save: 3/6/2019 8:41:34 AM

SAMPLE:

: AK/AP
Vial number: 11
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

300.0

Report date: 3/22/2019 12:42:10 PM
 Printed by: wet

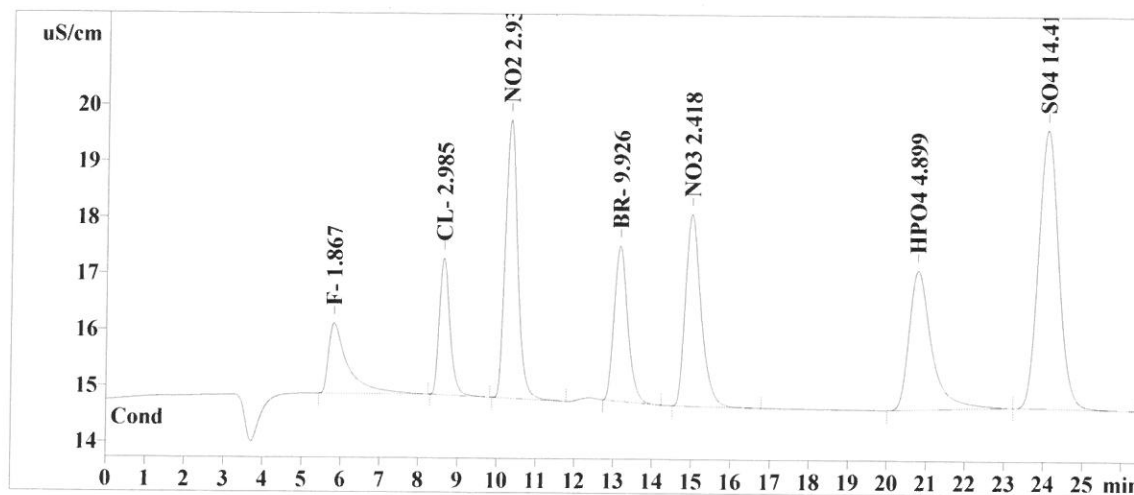
Ident: CCV
 Analysis from: 3/20/2019 8:42:16 AM
 File: _2019-03-20_

Last save: 3/20/2019 9:08:36 AM

Method: ANIONS 03-05-19.mtw
 Run operator: wet
 Analysis number: 65960

Last save: 3/18/2019 5:08:44 PM

SAMPLE:
 : AK/AP
 Vial number: 2
 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	5.80	0.446	1.25	5.61	43.286	6.75	0.
2	8.62	0.295	2.43	10.91	46.980	7.33	0.
3	10.30	0.335	4.95	22.26	108.765	16.96	0.
4	13.15	0.374	2.76	12.43	67.641	10.55	0.
5	14.98	0.423	3.41	15.35	95.422	14.88	0.
6	20.76	0.571	2.47	11.13	100.401	15.66	0.
7	24.06	0.554	4.95	22.29	178.706	27.87	0.
7	26.50	0.428	22.23	99.98	641.201	100.00	0.

This report has been created by IC Net
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Report date: 3/22/2019 12:42:28 PM
Printed by: wet

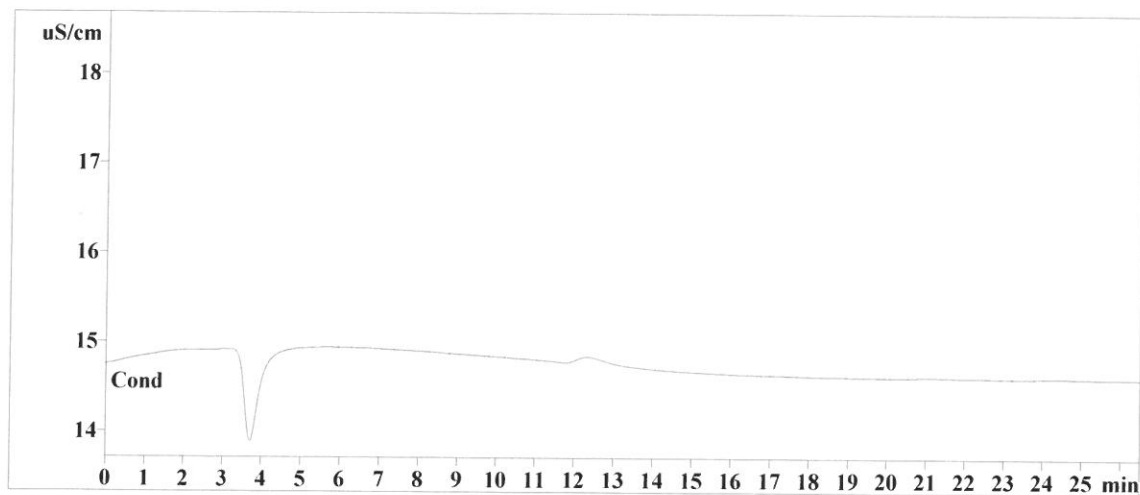
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Analysis from: 3/20/2019 9:11:42 AM
File: _2019-03-20_

Last save: 3/20/2019 9:38:02 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65961

Last save: 3/18/2019 5:08:44 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: 3/22/2019 12:42:35 PM
Printed by: wet

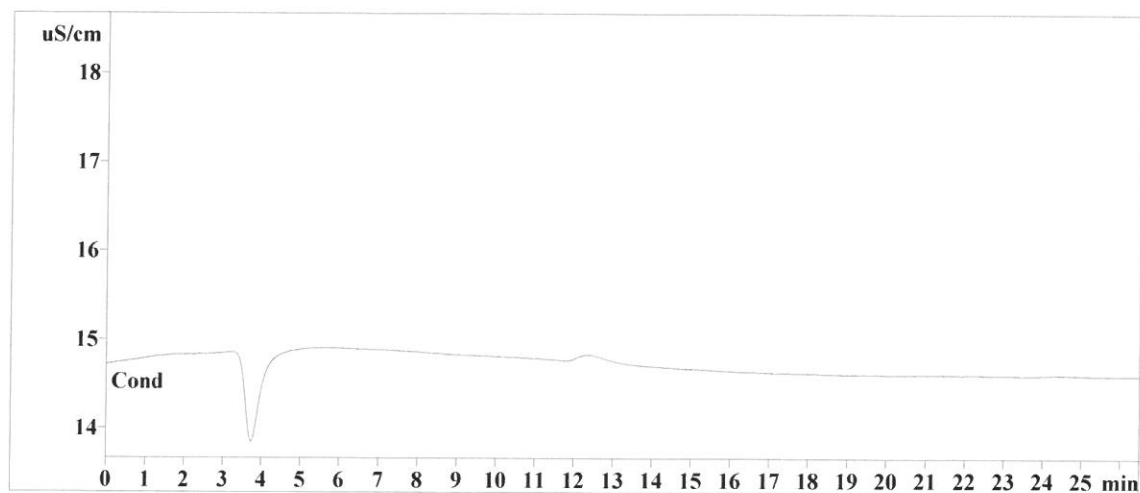
Ident: LB101508BLW
Analysis from: 3/20/2019 9:41:07 AM
File: _2019-03-20_

Last save: 3/21/2019 9:32:20 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65962

Last save: 3/18/2019 5:08:44 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: 3/22/2019 12:42:55 PM
Printed by: wet

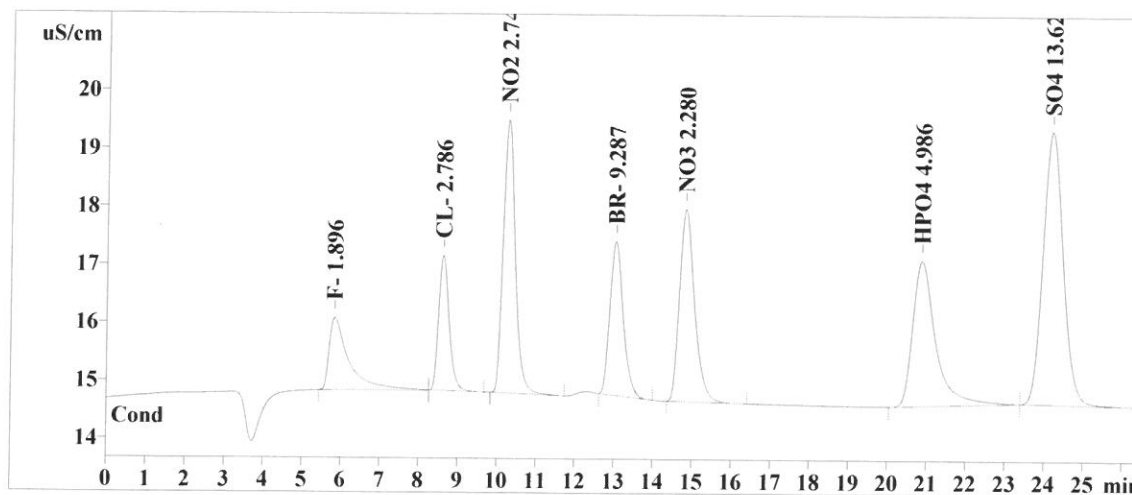
Ident: LB101508BSW
Analysis from: 3/20/2019 10:10:33 AM
File: _2019-03-20_

Last save: 3/21/2019 9:32:20 AM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65963

Last save: 3/18/2019 5:08:44 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	5.83	0.453	1.24	5.81	44.008	7.18	0.
2	8.60	0.288	2.32	10.83	43.771	7.14	0.
3	10.25	0.328	4.70	21.94	101.671	16.59	0.
4	13.03	0.364	2.65	12.36	63.109	10.30	0.
5	14.81	0.411	3.31	15.45	89.804	14.65	0.
6	20.85	0.568	2.50	11.67	102.058	16.65	0.
7	24.16	0.550	4.70	21.93	168.551	27.50	0.
7	26.50	0.423	21.42	99.99	612.973	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/25/2019 12:19:51 PM
Printed by: wet

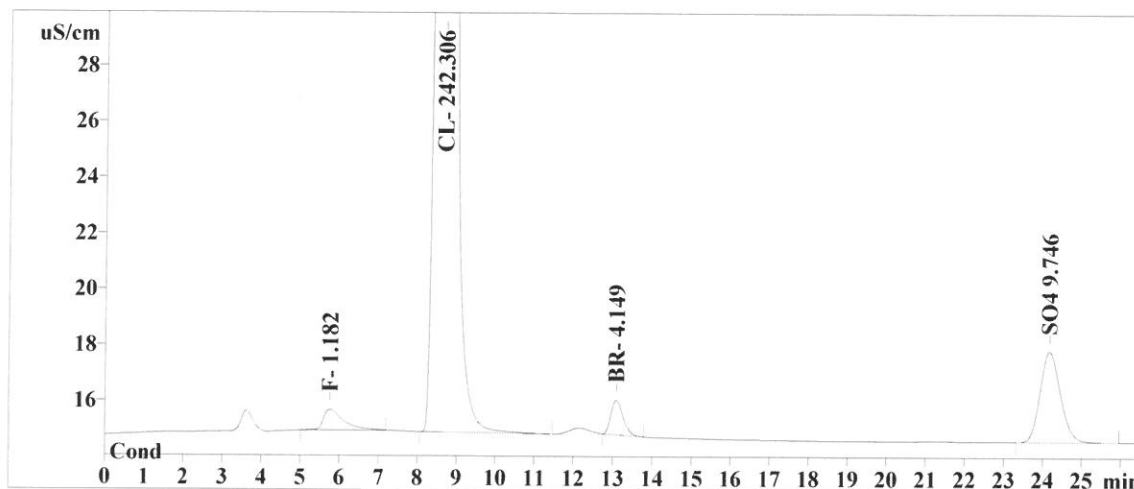
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File: _2019-03-20_

Last save: 3/25/2019 12:19:52 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65965

Last save: 3/18/2019 5:08:44 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	5.76	0.496	0.74	0.40	26.257	0.65	0.
2	8.67	0.334	180.84	97.19	3895.381	95.78	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	13.09	0.335	1.24	0.67	26.669	0.66	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	24.16	0.564	3.24	1.74	118.579	2.92	0.
7	26.50	0.247	186.06	100.00	4066.885	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/22/2019 12:44:05 PM
 Printed by: wet

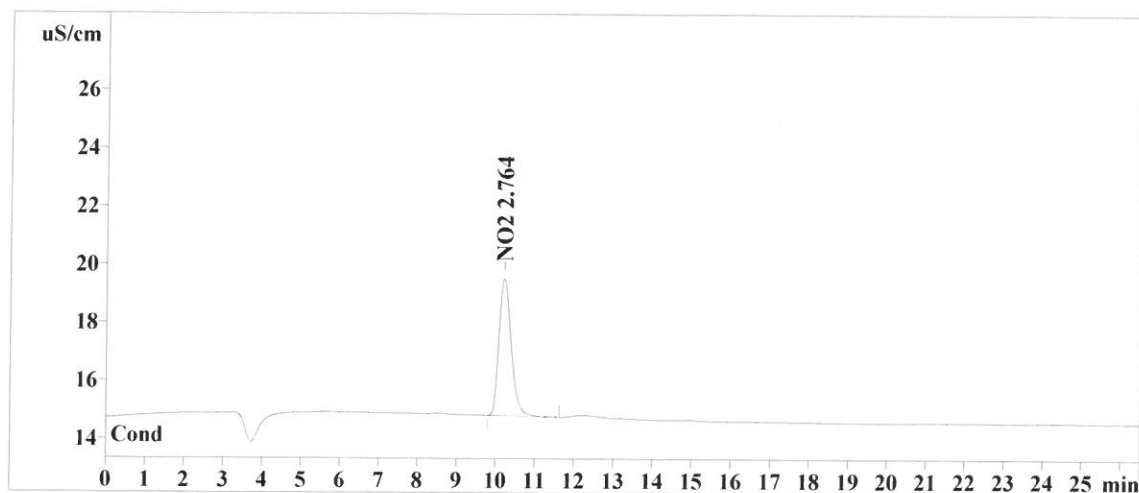
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 File: _2019-03-20_

Last save: 3/20/2019 12:20:36 PM

Method: ANIONS 03-05-19.mtw
 Run operator: wet
 Analysis number: 65967

Last save: 3/18/2019 5:08:44 PM

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	0.00	0.000	0.00	0.00	0.000	0.00	0.
3	10.20	0.330	4.71	100.00	102.397	100.00	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	26.50	0.047	4.71	100.00	102.397	100.00	0.

This report has been created by IC Net
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Report date: 3/22/2019 12:44:17 PM
Printed by: wet

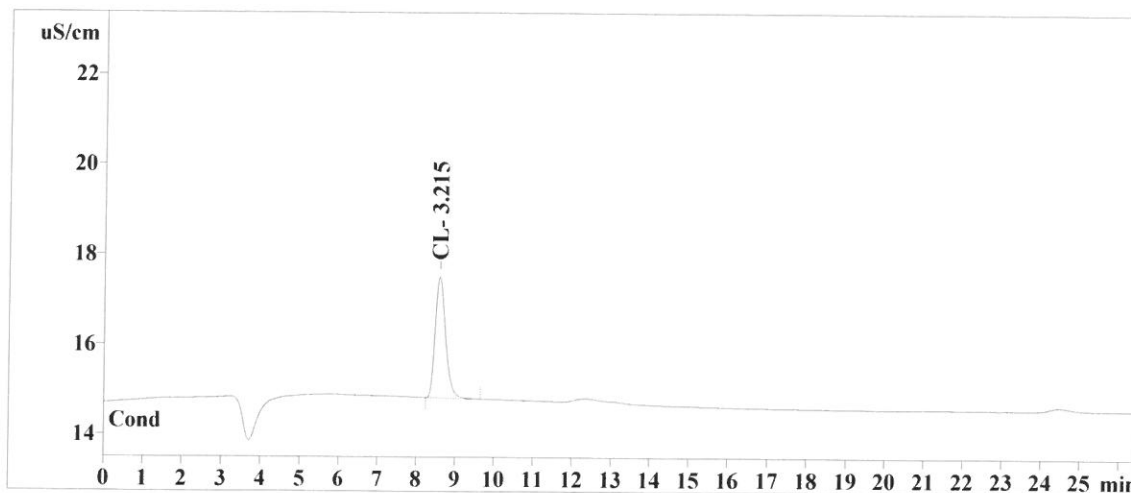
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Analysis from: 3/20/2019 12:23:42 PM
File: _2019-03-20_

Last save: 3/20/2019 3:29:42 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65968

Last save: 3/18/2019 5:08:44 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	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.58	0.289	2.68	100.01	50.676	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	26.50	0.041	2.68	100.01	50.676	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/25/2019 12:24:29 PM
Printed by: wet

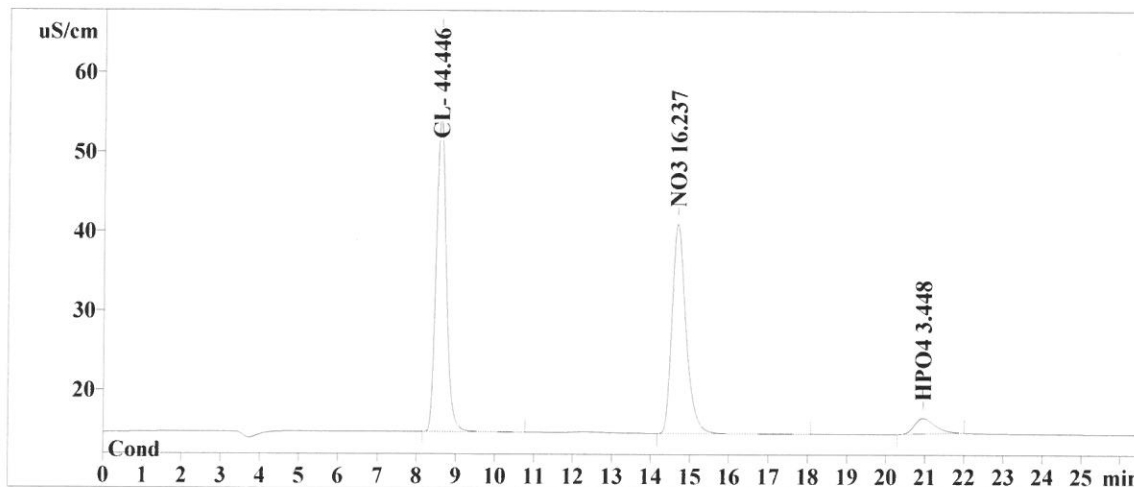
Ident: K1833-11
Analysis from: 3/20/2019 12:53:07 PM
File: _2019-03-20_

Last save: 3/20/2019 3:30:02 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65969

Last save: 3/18/2019 5:08:44 PM

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	8.59	0.272	39.71	58.38	713.696	49.38	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	14.67	0.372	26.35	38.74	658.826	45.58	0.
6	20.95	0.566	1.95	2.87	72.852	5.04	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.50	0.173	68.01	100.00	1445.373	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/22/2019 12:44:42 PM
Printed by: wet

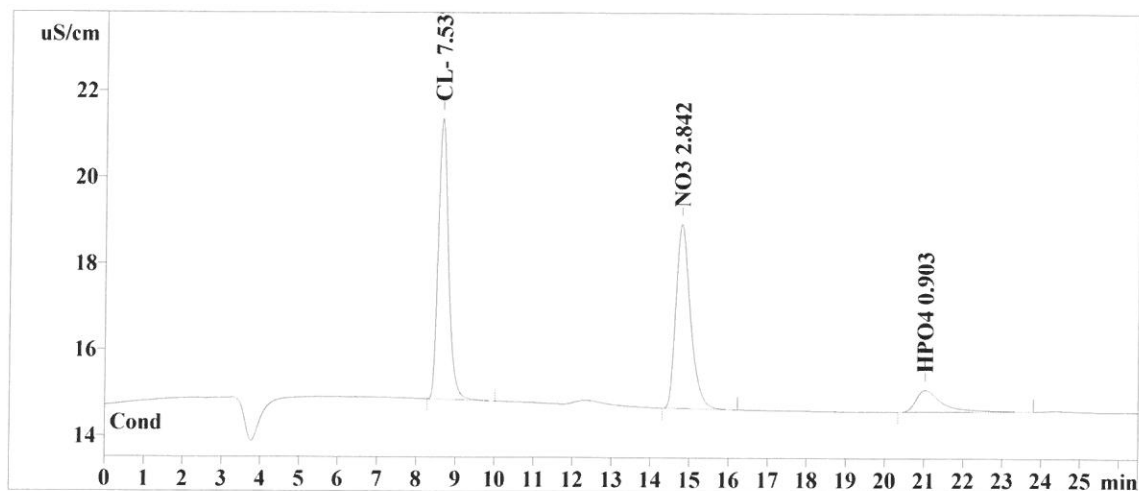
Ident: K1833-11DLX5
Analysis from: 3/20/2019 1:22:32 PM
File: _2019-03-20_

Last save: 3/20/2019 1:48:52 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65970

Last save: 3/18/2019 5:08:44 PM

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	8.63	0.279	6.51	57.64	120.204	46.69	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	14.78	0.400	4.27	37.81	112.733	43.79	0.
6	21.03	0.632	0.51	4.55	24.511	9.52	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.50	0.187	11.29	99.99	257.448	100.00	0.

This report has been created by IC Net
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Report date: 3/22/2019 12:44:56 PM
Printed by: wet

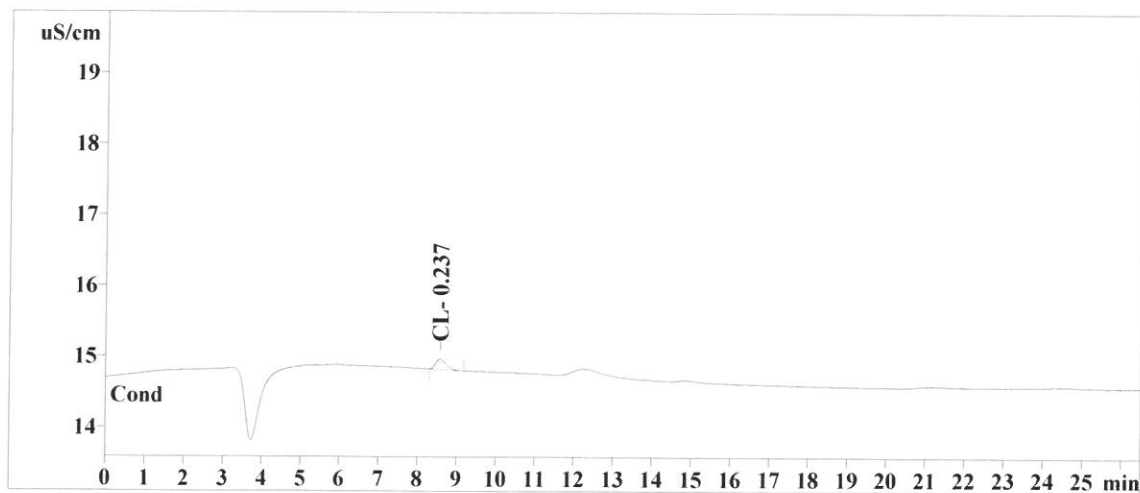
Ident: K2026-01
Analysis from: 3/20/2019 1:51:58 PM
File: _2019-03-20_

Last save: 3/20/2019 2:18:18 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65971

Last save: 3/18/2019 5:08:44 PM

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	8.58	0.290	0.15	99.69	2.784	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	26.50	0.041	0.15	99.69	2.784	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/22/2019 12:46:07 PM
Printed by: wet

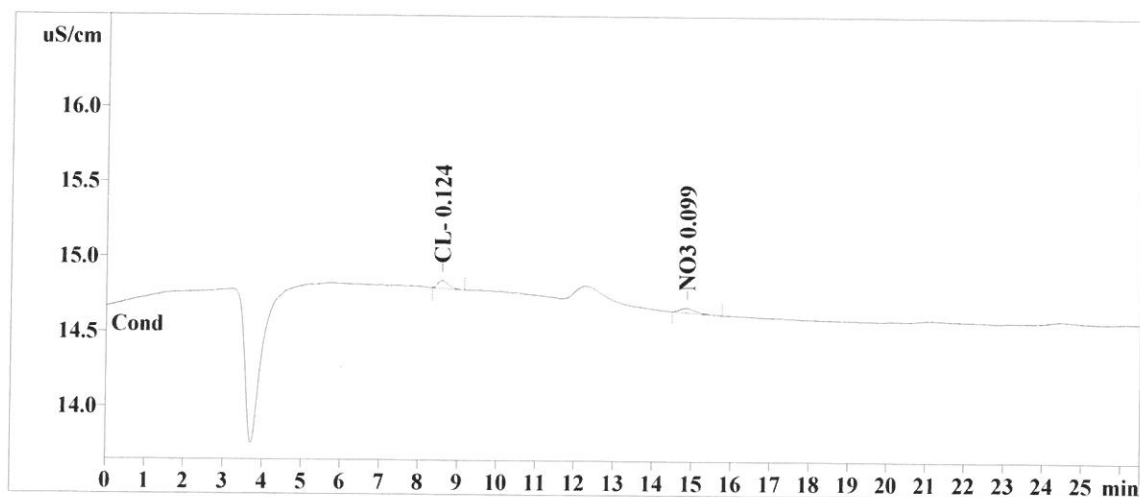
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Analysis from: 3/20/2019 2:21:23 PM
File: _2019-03-20_

Last save: 3/22/2019 12:45:34 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65972

Last save: 3/18/2019 5:08:44 PM

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	8.58	0.289	0.05	61.33	0.975	51.77	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	14.84	0.424	0.03	36.92	0.908	48.23	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	26.50	0.102	0.08	98.26	1.883	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/22/2019 12:46:33 PM
Printed by: wet

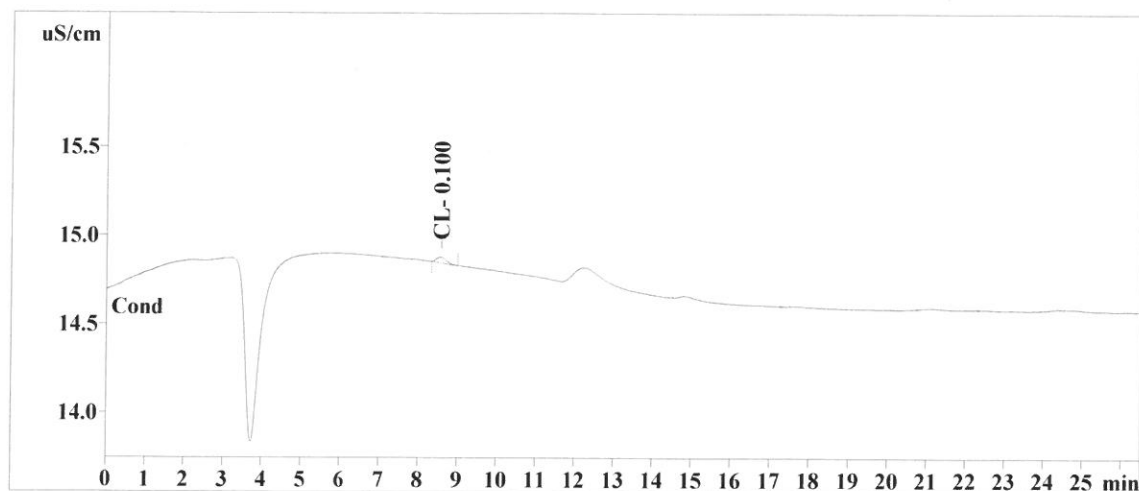
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Analysis from: 3/20/2019 2:50:49 PM
File: _2019-03-20_

Last save: 3/22/2019 12:46:34 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65973

Last save: 3/18/2019 5:08:44 PM

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	8.57	0.280	0.03	97.82	0.581	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	26.50	0.040	0.03	97.82	0.581	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 3/22/2019 12:46:43 PM
 Printed by: wet

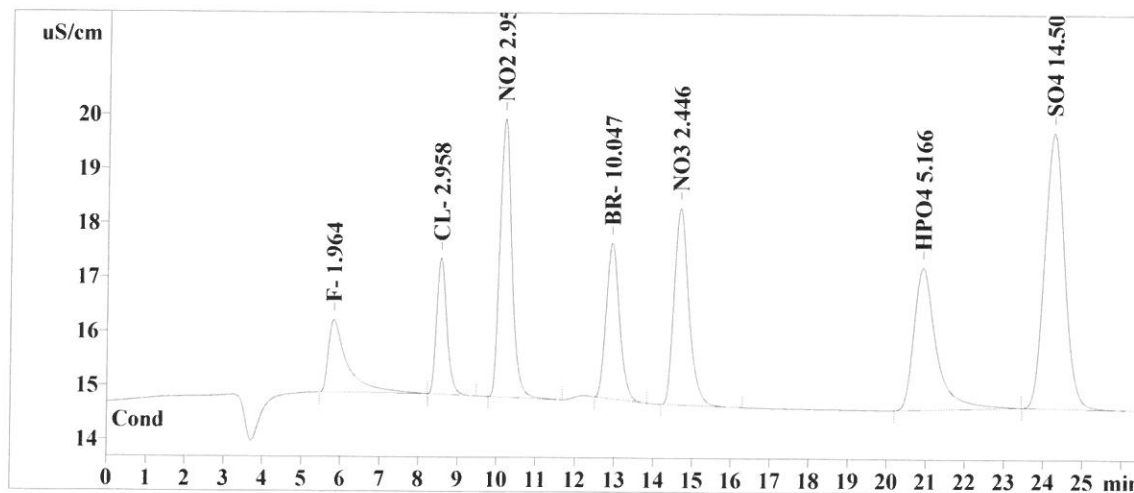
Ident: CCV
 Analysis from: 3/20/2019 3:20:14 PM
 File: _2019-03-20_

Last save: 3/20/2019 3:46:34 PM

Method: ANIONS 03-05-19.mtw
 Run operator: wet
 Analysis number: 65974

Last save: 3/18/2019 5:08:44 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	5.81	0.439	1.33	5.74	45.693	7.01	0.
2	8.55	0.284	2.51	10.82	46.538	7.13	0.
3	10.17	0.325	5.13	22.15	109.638	16.81	0.
4	12.92	0.366	2.87	12.40	68.495	10.50	0.
5	14.66	0.404	3.63	15.64	96.570	14.80	0.
6	20.90	0.560	2.62	11.31	105.470	16.17	0.
7	24.22	0.545	5.08	21.93	179.885	27.58	0.
7	26.50	0.417	23.18	100.00	652.290	100.00	0.

This report has been created by IC Net
 METROHM LTD

Report date: 3/22/2019 12:46:51 PM
Printed by: wet

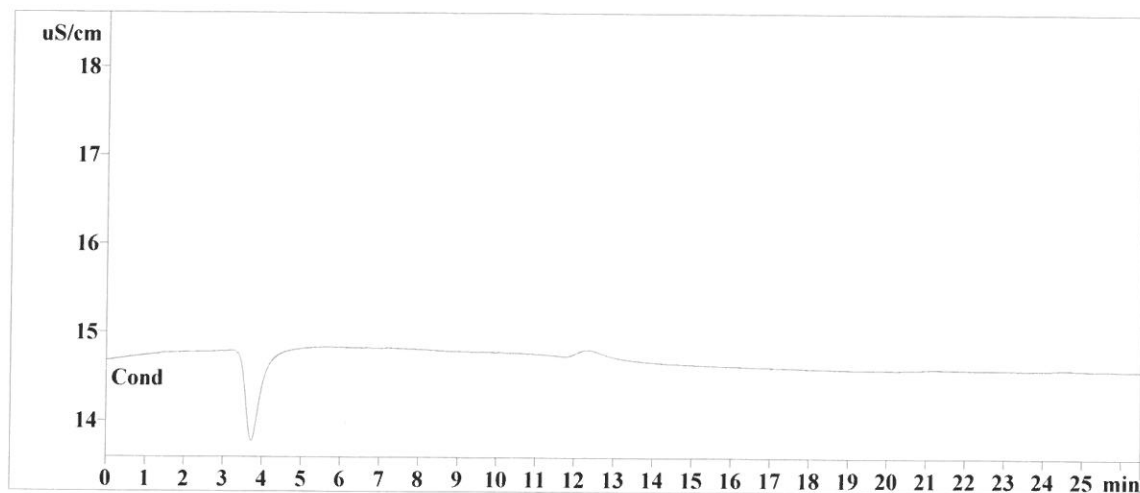
Ident: CCB
Analysis from: 3/20/2019 3:49:50 PM
File: _2019-03-20_

Last save: 3/20/2019 4:16:10 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65975

Last save: 3/18/2019 5:08:44 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
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Report date: 3/22/2019 12:47:10 PM
Printed by: wet

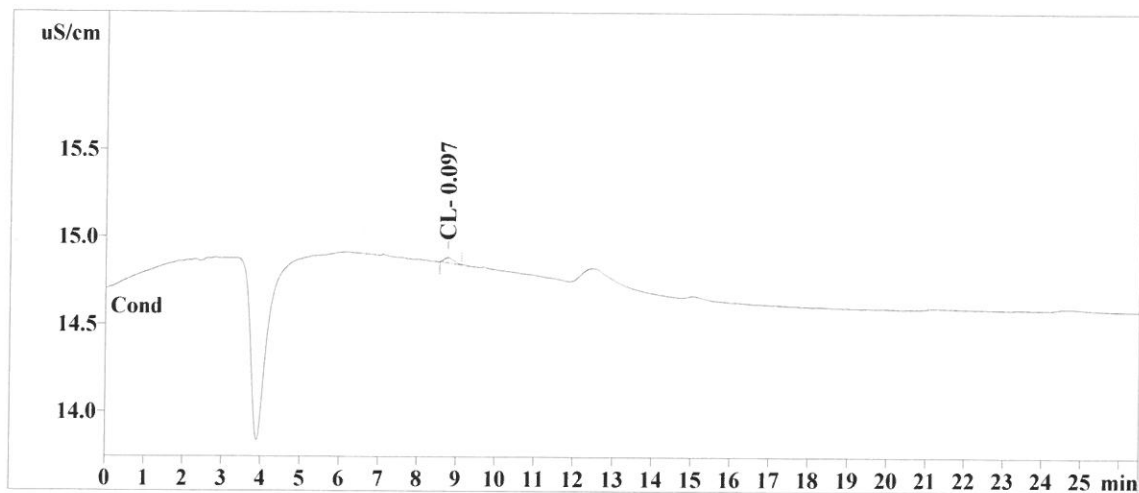
Ident: K2026-03DUP
Analysis from: 3/20/2019 4:19:16 PM
File: _2019-03-20_

Last save: 3/22/2019 12:47:06 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65976

Last save: 3/18/2019 5:08:44 PM

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	8.77	0.275	0.03	97.39	0.537	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	26.50	0.039	0.03	97.39	0.537	100.00	0.

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Report date: 3/22/2019 12:47:18 PM
Printed by: wet

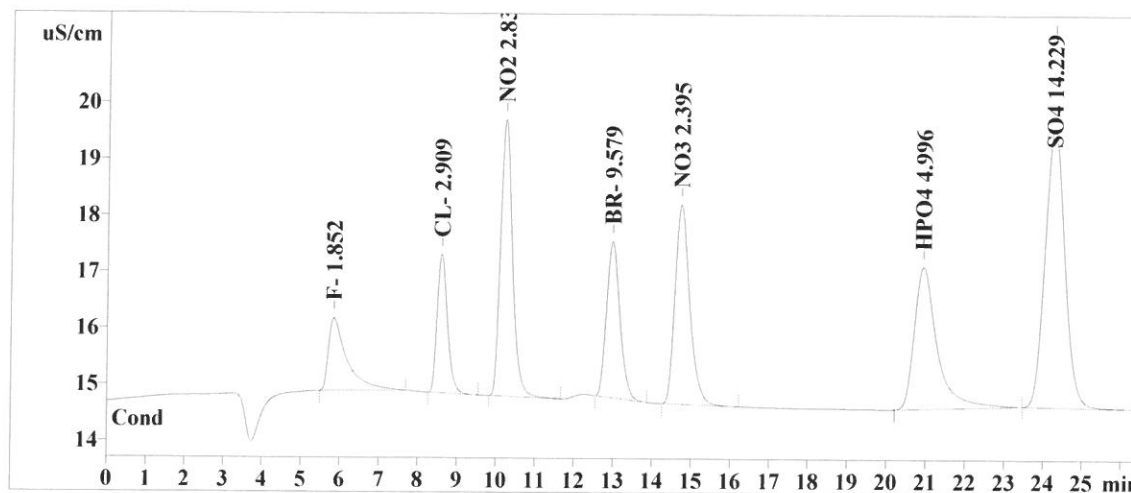
Ident: K2026-03MS
Analysis from: 3/20/2019 4:48:41 PM
File: _2019-03-20_

Last save: 3/20/2019 5:15:00 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65977

Last save: 3/18/2019 5:08:44 PM

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	5.83	0.443	1.29	5.73	42.911	6.79	0.
2	8.59	0.285	2.46	10.96	45.749	7.24	0.
3	10.21	0.326	4.90	21.88	105.132	16.63	0.
4	12.96	0.361	2.77	12.34	65.177	10.31	0.
5	14.71	0.406	3.54	15.77	94.492	14.95	0.
6	20.92	0.563	2.52	11.23	102.250	16.18	0.
7	24.24	0.549	4.95	22.08	176.368	27.90	0.
7	26.50	0.419	22.41	99.99	632.078	100.00	0.

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Report date: 3/22/2019 12:47:26 PM
Printed by: wet

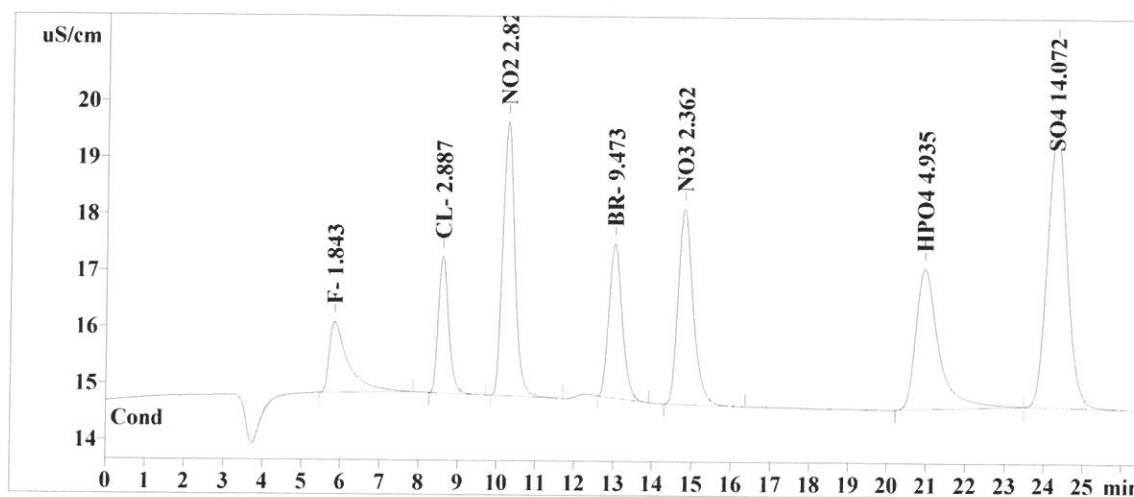
Ident: K2026-03MSD
Analysis from: 3/20/2019 5:18:06 PM
File: _2019-03-20_

Last save: 3/20/2019 5:44:26 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65978

Last save: 3/18/2019 5:08:44 PM

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	5.83	0.450	1.25	5.67	42.671	6.82	0.
2	8.59	0.286	2.42	10.98	45.401	7.25	0.
3	10.24	0.329	4.84	21.94	104.870	16.75	0.
4	13.01	0.362	2.73	12.35	64.430	10.29	0.
5	14.78	0.409	3.46	15.66	93.133	14.88	0.
6	20.94	0.563	2.48	11.24	101.091	16.15	0.
7	24.27	0.548	4.89	22.15	174.342	27.85	0.
7	26.50	0.421	22.07	99.99	625.939	100.00	0.

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Report date: 3/22/2019 12:47:35 PM
Printed by: wet

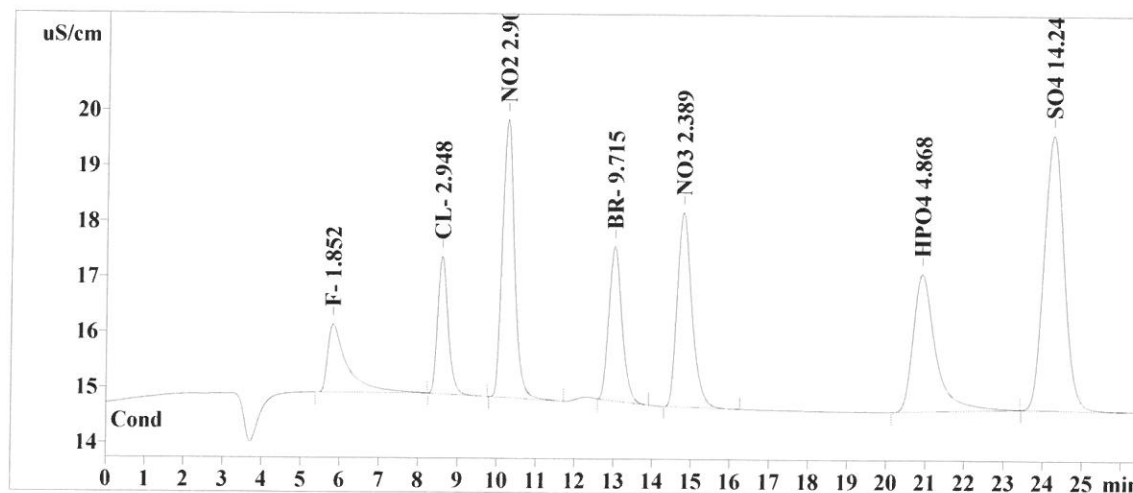
Ident: CCV
Analysis from: 3/20/2019 5:47:32 PM
File: _2019-03-20_

Last save: 3/20/2019 6:13:52 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65979

Last save: 3/18/2019 5:08:44 PM

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	5.81	0.445	1.22	5.45	42.903	6.77	0.
2	8.58	0.286	2.47	11.02	46.376	7.32	0.
3	10.23	0.326	5.01	22.33	107.650	16.99	0.
4	13.00	0.365	2.78	12.40	66.147	10.44	0.
5	14.77	0.409	3.50	15.63	94.237	14.87	0.
6	20.89	0.562	2.48	11.05	99.818	15.75	0.
7	24.22	0.549	4.96	22.11	176.628	27.87	0.
7	26.50	0.420	22.41	99.99	633.760	100.00	0.

This report has been created by IC Net
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Report date: 3/22/2019 12:47:46 PM
Printed by: wet

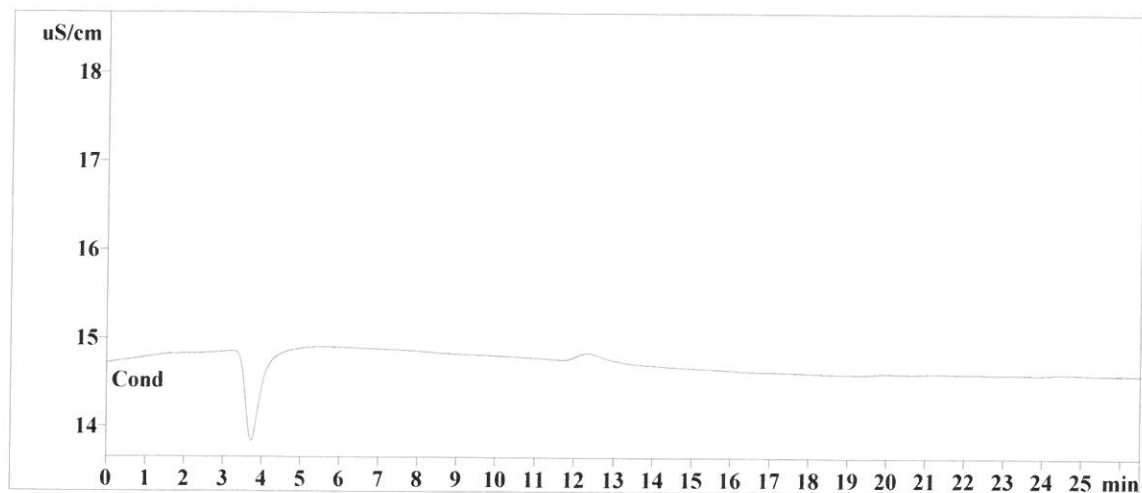
Ident: CCB
Analysis from: 3/20/2019 6:16:57 PM
File: _2019-03-20_

Last save: 3/20/2019 6:43:16 PM

Method: ANIONS 03-05-19.mtw
Run operator: wet
Analysis number: 65980

Last save: 3/18/2019 5:08:44 PM

SAMPLE:
: AK/AP
Vial number: 20
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