Inst ID :- IC-2
method :- 300.0 AP
1/21/19

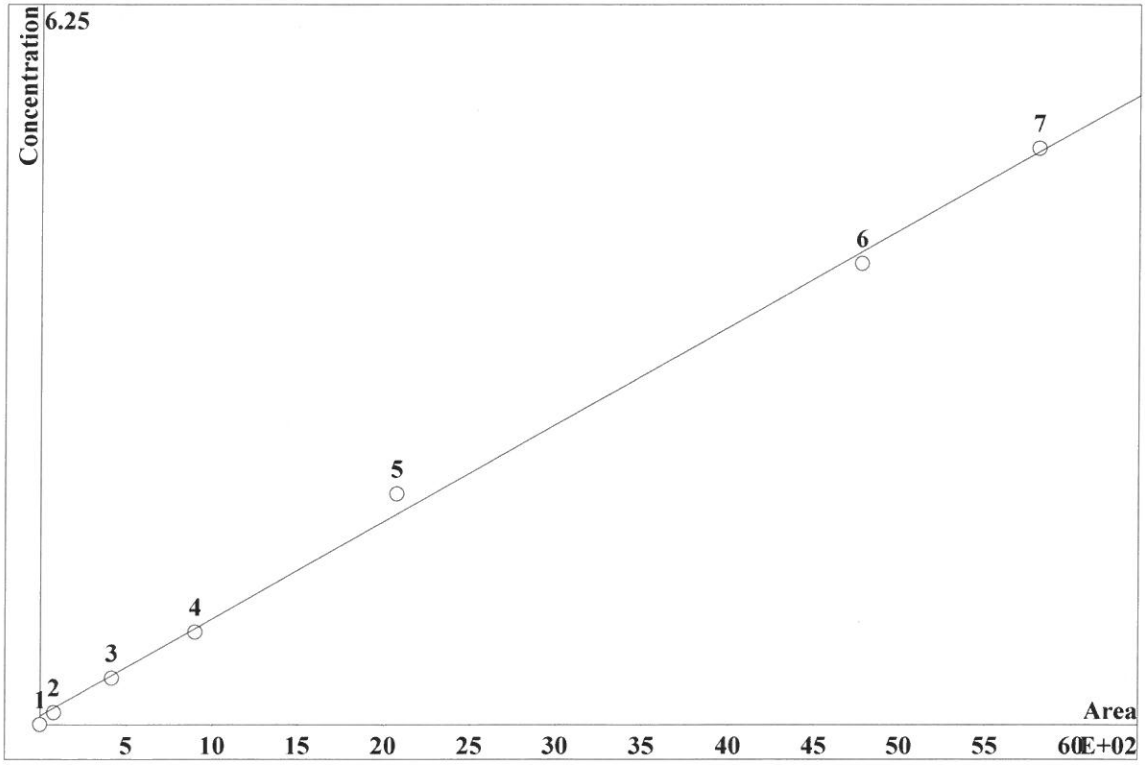
Clear table

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-14_	1/14/19 9:36		AK/AP
STD2	0.1430	0.1980	0.2420	0.7050	0.1810	-0.2590	1.2690	_2019-01-14_	1/14/19 10:07		AK/AP
STD3	0.4260	0.6270	0.6120	2.0280	0.5080	1.0820	3.1070	_2019-01-14_	1/14/19 10:38		AK/AP
STD4	0.8320	1.2110	1.1910	4.0420	1.0110	2.4220	5.9540	_2019-01-14_	1/14/19 11:10		AK/AP
STD5	1.8260	2.8340	2.8170	9.4550	2.3550	5.1140	13.9270	_2019-01-14_	1/14/19 11:41		AK/AP
STD6	4.1030	6.1270	6.1170	20.4380	5.1130	10.2710	30.6230	_2019-01-14_	1/14/19 12:13		AK/AP
STD7	4.9700	7.4540	7.4710	24.8320	6.2080	12.1190	37.3700	_2019-01-14_	1/14/19 12:44		AK/AP
ICV	1.9780	2.9140	2.8940	9.8180	2.4320	5.3910	14.3180	_2019-01-14_	1/14/19 14:18		AK/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-14_	1/14/19 14:54		AK/AP
CCV	2.0160	2.9560	2.9100	9.9260	2.4580	4.4900	14.1600	_2019-01-21_	1/21/19 8:09		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-21_	1/21/19 8:47		AK/AP
LB100408BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-21_	1/21/19 9:18		AK/AP
LB100408BSW	1.9470	2.8390	2.7880	9.5040	2.3580	4.7120	13.5840	_2019-01-21_	1/21/19 9:49		AK/AP
K1098-01DLX50	0.0000	3.3740	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-21_	1/21/19 10:40		AK/AP
CCV	2.0520	2.9570	2.9200	9.9390	2.4600	4.7510	14.1950	_2019-01-21_	1/21/19 11:18		AK/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2019-01-21_	1/21/19 11:49		AK/AP

IC-2 cal
01-14-19 AR

CALIBRATION OF COMPONENT F-

Method: AnionsIC2-011419.mtw
Equation: Q = 0.016869·A + 1.47281
RSD: 5.202 %
Correlation coefficient: 0.998895



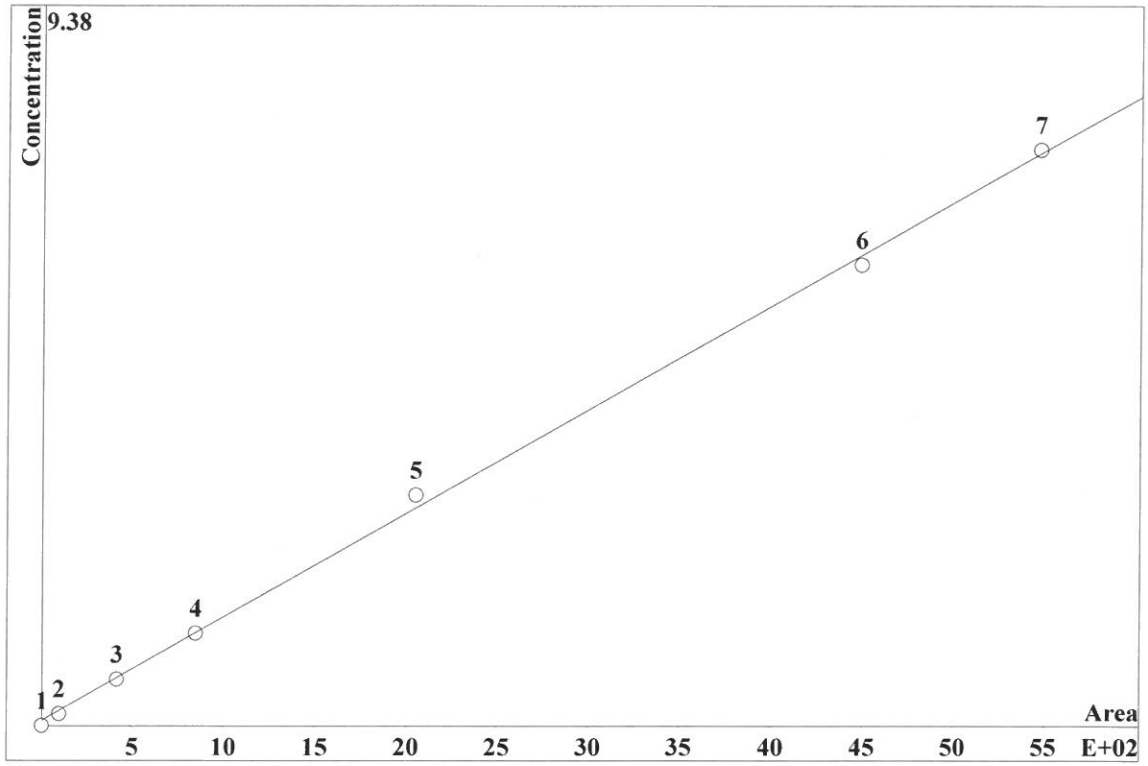
K3 = 0 K2 = 0 K1 = 0.016869 K0 = 1.47281
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		
2	3.546	82.42	0.1	20	5.166		
3	17.91	417.7	0.4	20	5.166		
4	37.75	899.2	0.8	20	5.166		
5	89.09	2077	2	20	5.166		
6	211.2	4777	4	20	5.166		
7	247.7	5805	5	20	5.166		

1.

CALIBRATION OF COMPONENT CL-

Method: AnionsIC2-011419.mtw
Equation: Q = 0.0269857·A + 1.34507
RSD: 3.592 %
Correlation coefficient: 0.999473

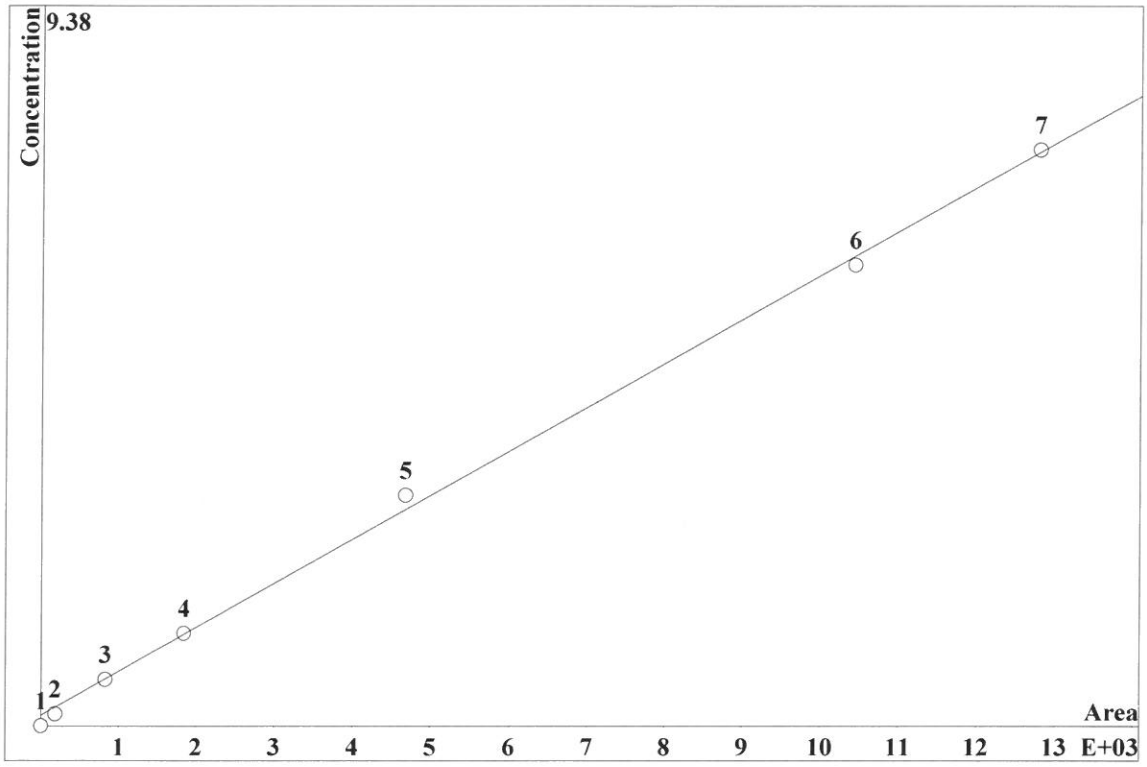


K3 = 0 K2 = 0 K1 = 0.0269857 K0 = 1.34507
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		
2	5.778	96.57	0.15	20	9.024		
3	22.21	414.9	0.6	20	9.024		
4	46.78	847.7	1.2	20	9.024		
5	113.4	2051	3	20	9.024		
6	253.9	4491	6	20	9.024		
7	308.2	5474	7.5	20	9.024		

CALIBRATION OF COMPONENT NO2

Method: AnionsIC2-011419.mtw
Equation: Q = 0.0114575·A + 2.72962
RSD: 3.869 %
Correlation coefficient: 0.999389

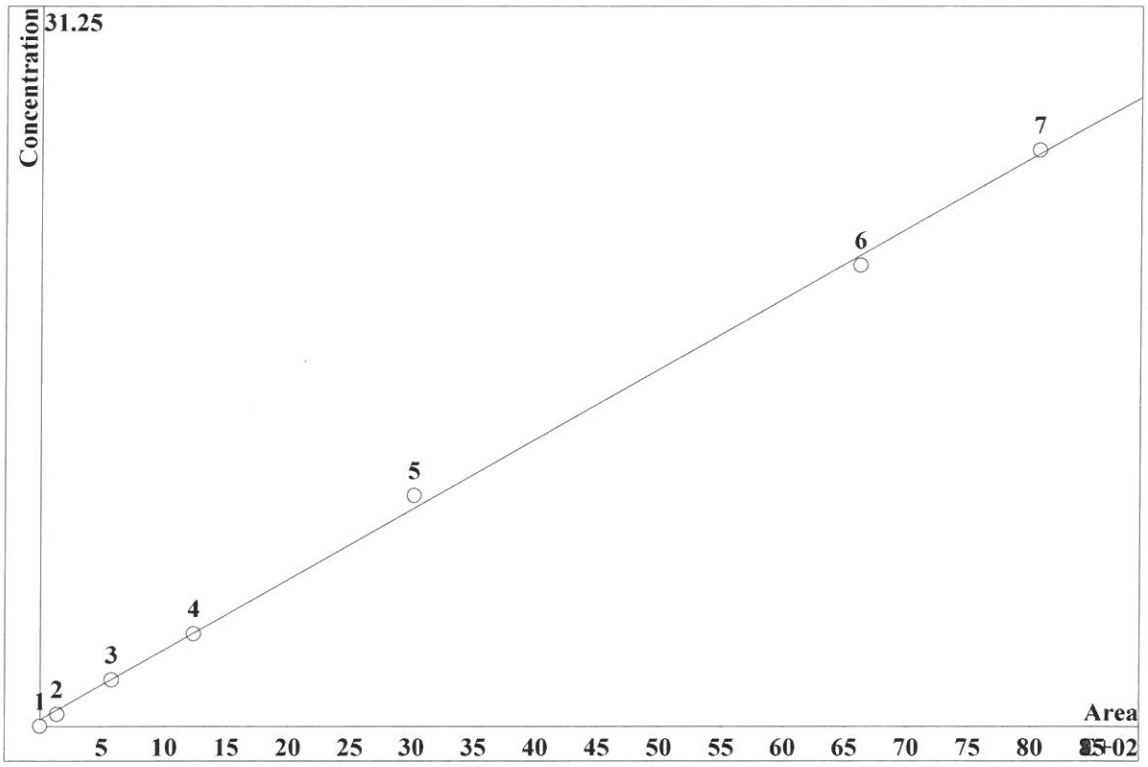


K3 = 0 K2 = 0 K1 = 0.0114575 K0 = 2.72962
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		
2	10.14	184.9	0.15	20	11.64		
3	42.66	829.4	0.6	20	11.64		
4	94.06	1841	1.2	20	11.64		
5	237.6	4680	3	20	11.64		
6	535.3	1.044e+04	6	20	11.64		
7	650.7	1.28e+04	7.5	20	11.64		

CALIBRATION OF COMPONENT BR-

Method: AnionsIC2-011419.mtw
Equation: Q = 0.060899·A + 5.50902
RSD: 3.653 %
Correlation coefficient: 0.999455

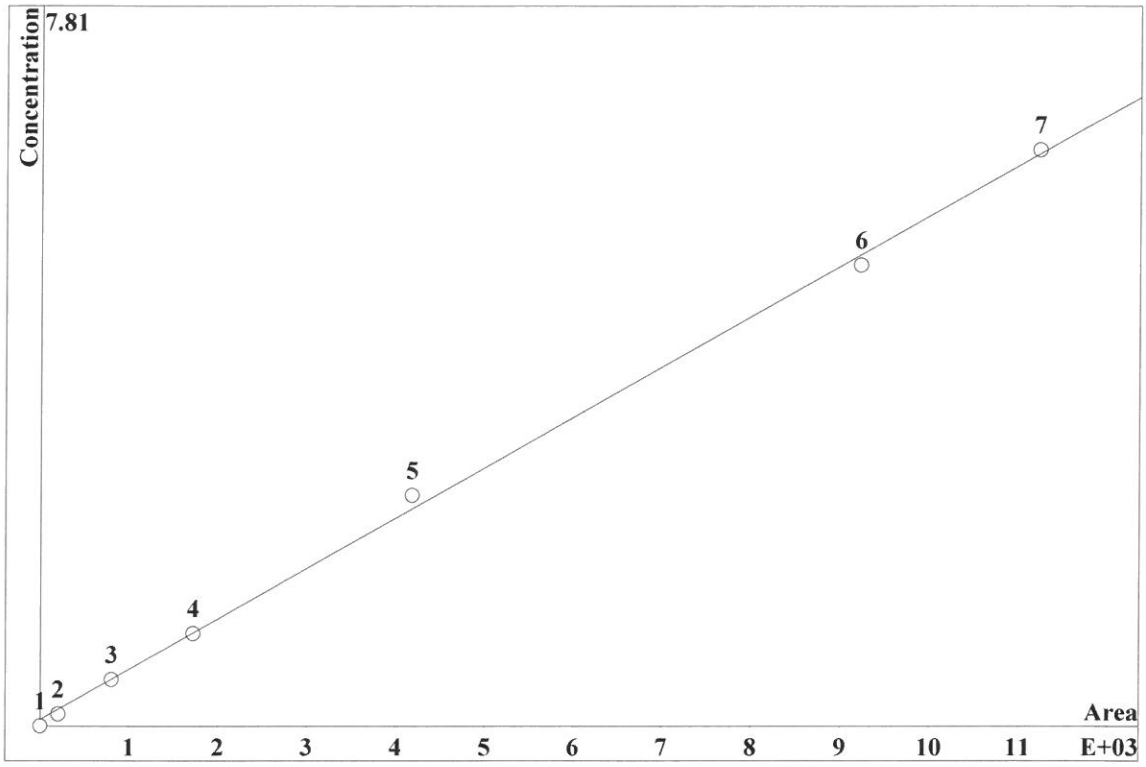


K3 = 0 K2 = 0 K1 = 0.060899 K0 = 5.50902
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0			0
2	4.875	141.1	0.5	20			15.43
3	19.57	575.5	2	20			15.43
4	41.86	1237	4	20			15.43
5	101.4	3015	10	20			15.43
6	221.3	6621	20	20			15.43
7	268.1	8065	25	20			15.43

CALIBRATION OF COMPONENT NO3

Method: AnionsIC2-011419.mtw
Equation: Q = 0.0109329·A + 1.36317
RSD: 3.838 %
Correlation coefficient: 0.999399

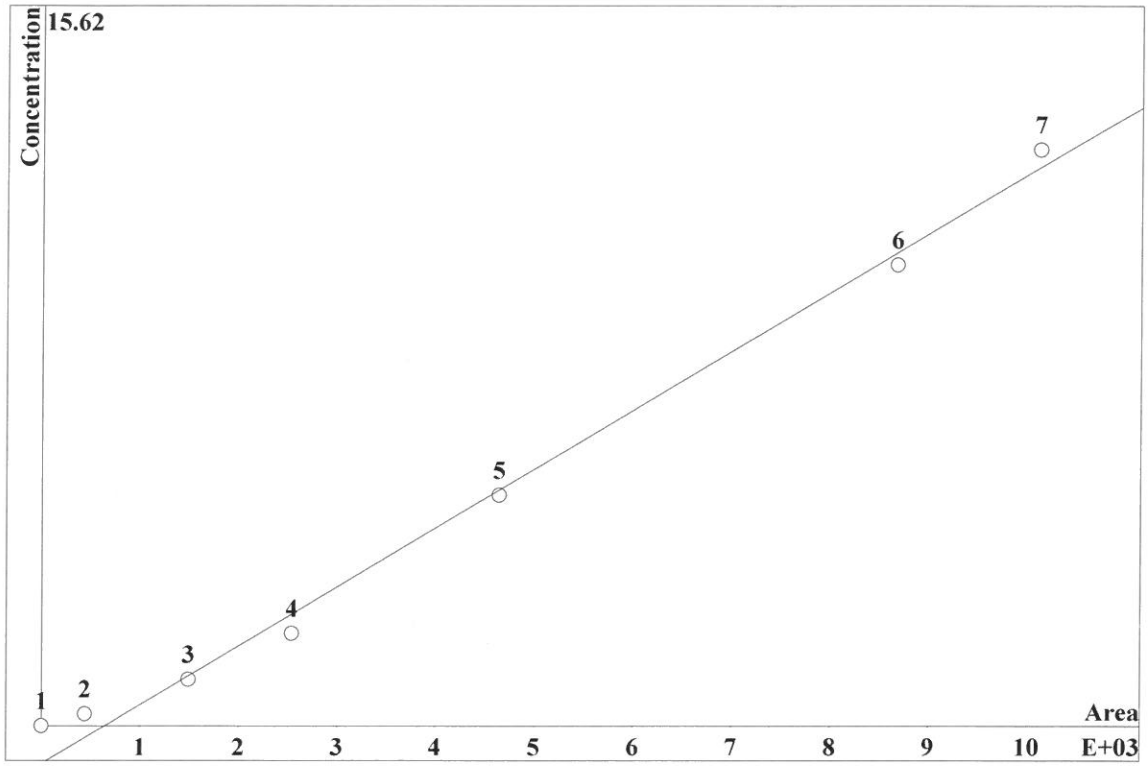


K3 = 0 K2 = 0 K1 = 0.0109329 K0 = 1.36317
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0			0
2	5.906	205.8	0.125	20			18.5
3	22.77	803.9	0.5	20			18.5
4	47.75	1724	1	20			18.5
5	112.7	4184	2.5	20			18.5
6	237.9	9229	5	20			18.5
7	285.2	1.123e+04	6.25	20			18.5

CALIBRATION OF COMPONENT HPO4

Method: AnionsIC2-011419.mtw
Equation: Q = 0.0255618·A - 16.4708
RSD: 8.017 %
Correlation coefficient: 0.997373

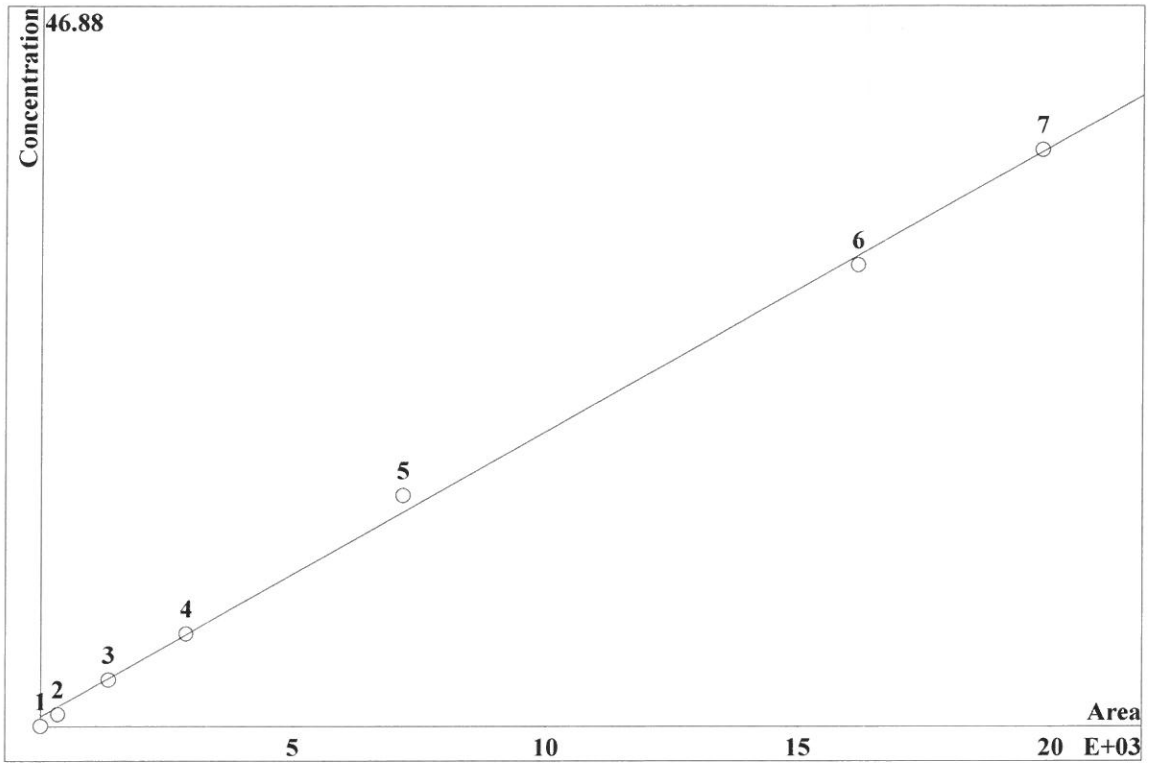


K3 = 0 K2 = 0 K1 = 0.0255618 K0 = -16.4708
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		
2	9.127	441.8	0.25	20	23.19		
3	32.09	1491	1	20	23.19		
4	55.86	2539	2	20	23.19		
5	104.9	4646	5	20	23.19		
6	201.7	8681	10	20	23.19		
7	235.3	1.013e+04	12.5	20	23.19		

CALIBRATION OF COMPONENT SO4

Method: AnionsIC2-011419.mtw
Equation: Q = 0.0371072·A + 12.502
RSD: 4.410 %
Correlation coefficient: 0.999206



K3 = 0 K2 = 0 K1 = 0.0371072 K0 = 12.502
Base: Area
Ref.channel: ch1
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0			0
2	8.859	346.8	0.75	20			25.22
3	33.72	1338	3	20			25.22
4	71.87	2872	6	20			25.22
5	177.7	7170	15	20			25.22
6	399.8	1.617e+04	30	20			25.22
7	487.1	1.98e+04	37.5	20			25.22

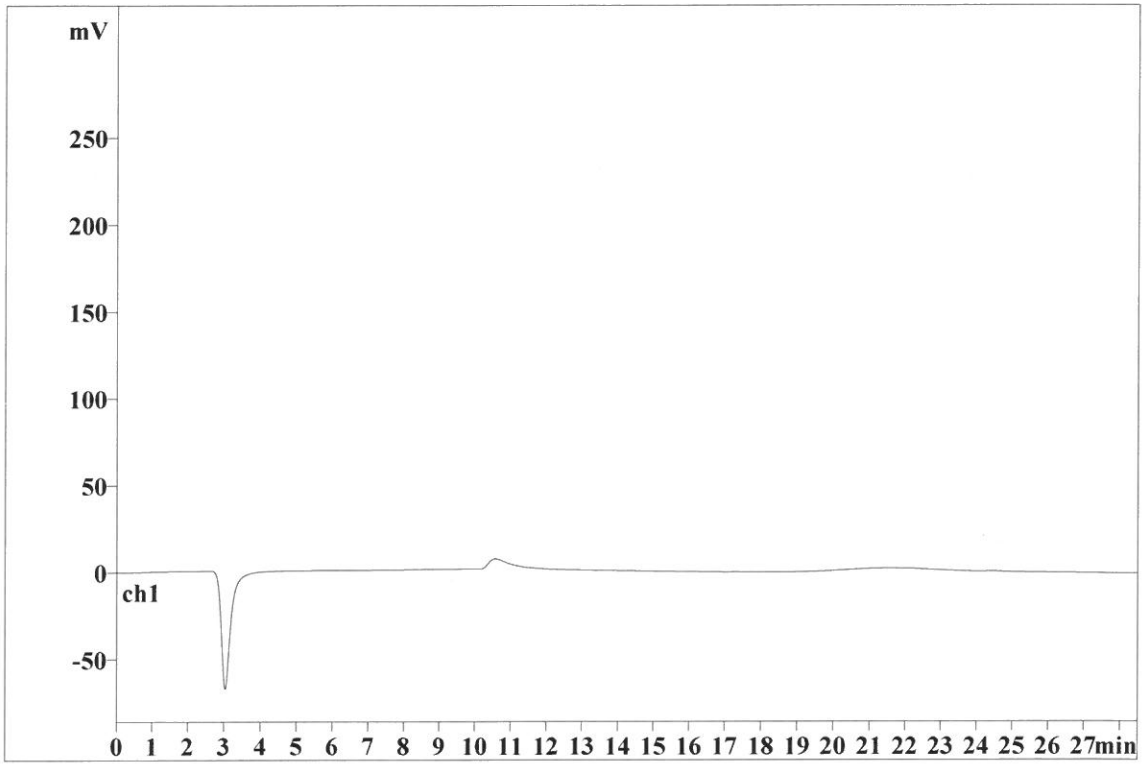
a

Report date: 1/16/2019 1:21:52 PM
Printed by: wet

Ident: STD1
Analysis from: 1/14/2019 9:36:02 AM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19568

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



Quantitation method: Custom

No peaks

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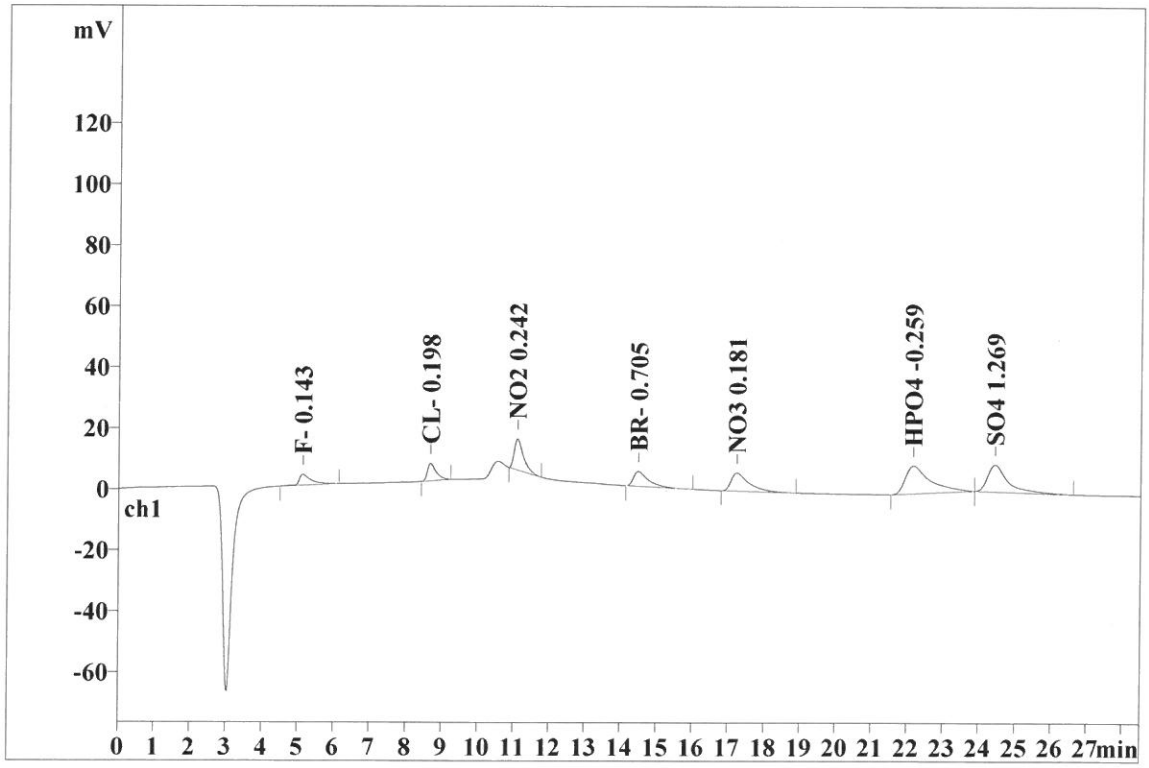
Report date: 1/16/2019 1:22:08 PM
Printed by: wet

Ident: STD2
Analysis from: 1/14/2019 10:07:27 AM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19569

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 mV	Height %	Area mV*sec	Area %
1	5.13	0.312	3.54	7.35	82.422	5.50
2	8.68	0.245	5.78	11.98	96.573	6.44
3	11.11	0.269	10.14	21.02	184.913	12.33
4	14.50	0.409	4.87	10.11	141.066	9.41
5	17.25	0.490	5.90	12.24	205.756	13.72
6	22.17	0.660	9.12	18.92	441.839	29.47
7	24.45	0.519	8.86	18.37	346.844	23.13
7	28.50	0.415	48.22	99.99	1499.412	100.00

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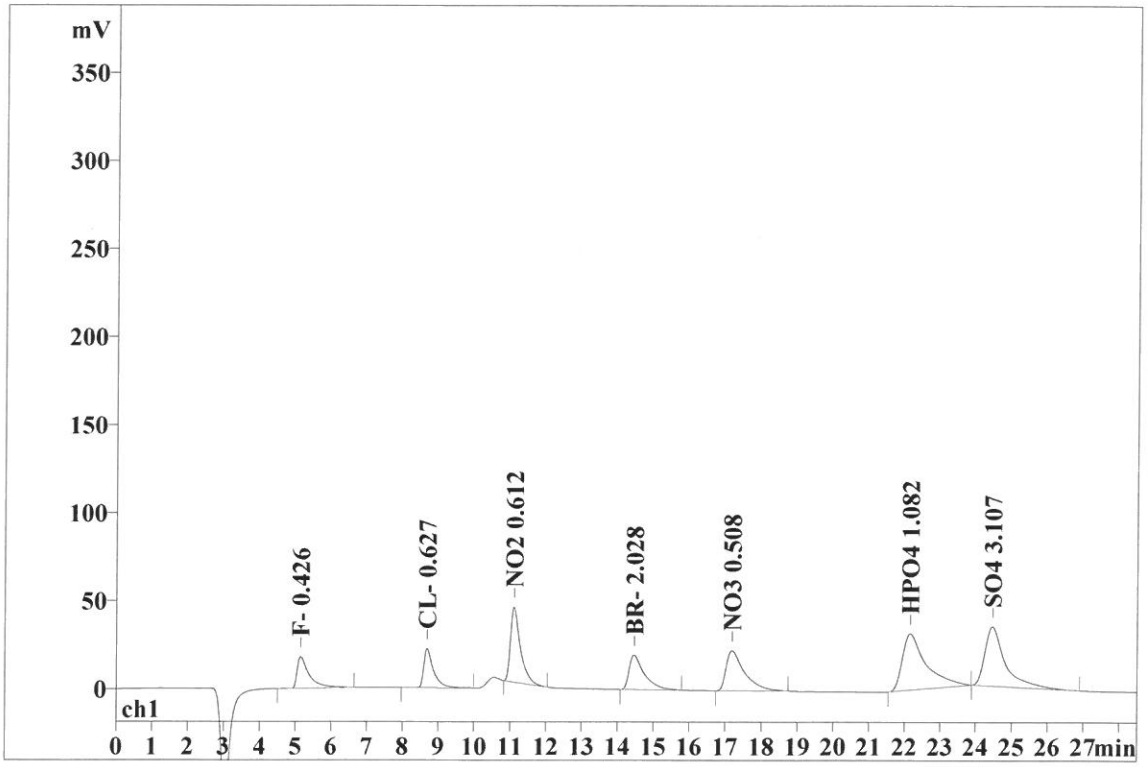
Report date: 1/16/2019 1:22:18 PM
Printed by: wet

Ident: STD3
Analysis from: 1/14/2019 10:38:53 AM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19570

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 mV	Height %	Area mV*sec	Area %
1	5.14	0.309	17.90	9.38	417.671	7.12
2	8.69	0.257	22.20	11.63	414.883	7.07
3	11.11	0.276	42.66	22.34	829.437	14.13
4	14.47	0.414	19.57	10.25	575.490	9.80
5	17.19	0.498	22.77	11.93	803.895	13.70
6	22.16	0.621	32.09	16.81	1490.874	25.40
7	24.47	0.522	33.72	17.66	1337.550	22.79
7	28.50	0.414	190.91	99.99	5869.799	100.00

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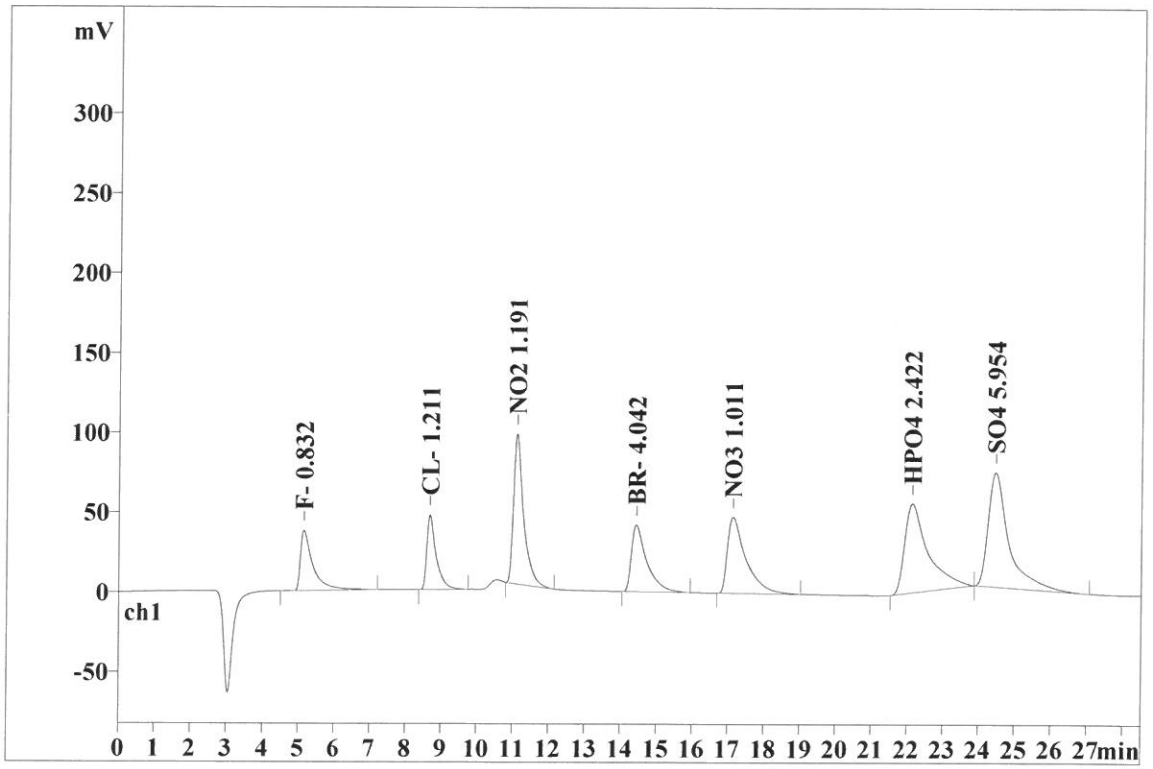
Report date: 1/16/2019 1:22:29 PM
Printed by: wet

Ident: STD4
Analysis from: 1/14/2019 11:10:19 AM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19571

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 mV	Height %	Area mV*sec	Area %
1	5.15	0.309	37.75	9.54	899.176	7.52
2	8.69	0.252	46.78	11.81	847.720	7.09
3	11.12	0.273	94.06	23.76	1841.013	15.39
4	14.44	0.411	41.86	10.57	1236.963	10.34
5	17.14	0.503	47.75	12.06	1723.932	14.41
6	22.14	0.605	55.86	14.11	2539.350	21.23
7	24.47	0.521	71.87	18.15	2872.249	24.01
7	28.50	0.411	395.93	100.00	11960.404	100.00

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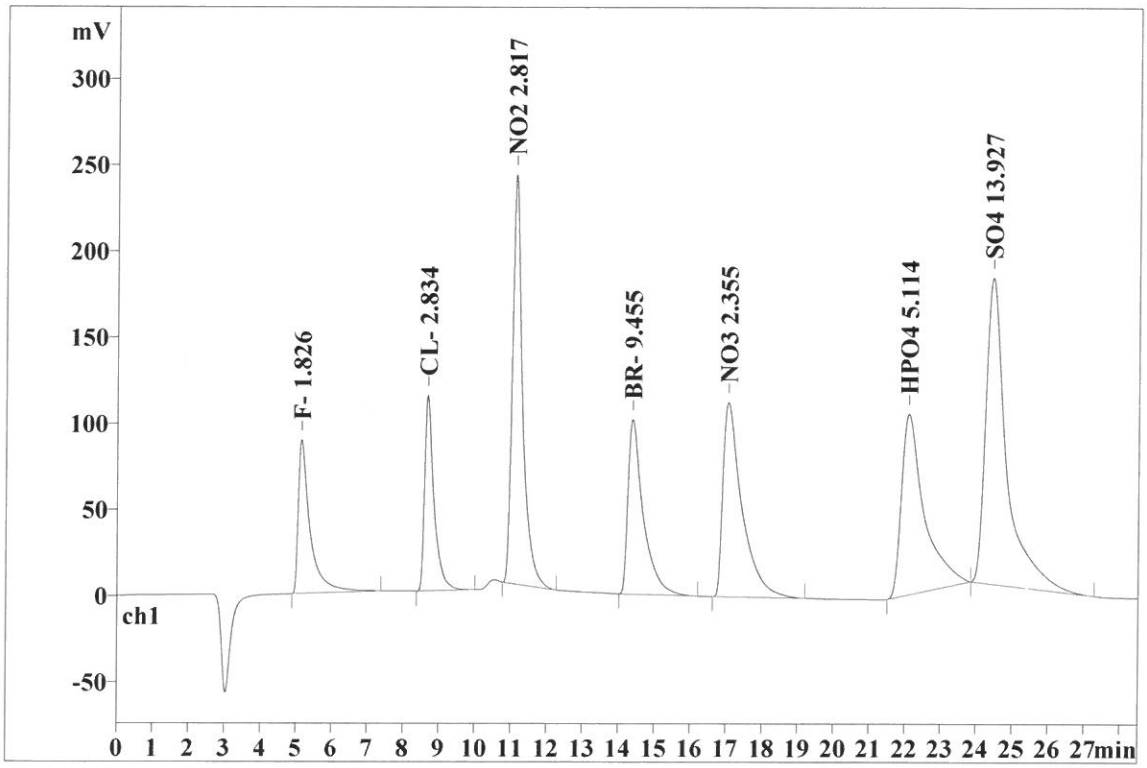
Report date: 1/16/2019 1:22:41 PM
Printed by: wet

Ident: STD5
Analysis from: 1/14/2019 11:41:45 AM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19572

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 mV	Height %	Area mV*sec	Area %
1	5.15	0.302	89.09	9.51	2077.214	7.47
2	8.68	0.252	113.37	12.10	2050.544	7.37
3	11.12	0.272	237.60	25.37	4679.552	16.82
4	14.39	0.412	101.37	10.82	3014.810	10.84
5	17.06	0.521	112.67	12.03	4184.127	15.04
6	22.10	0.589	104.87	11.20	4645.880	16.70
7	24.45	0.520	177.70	18.97	7169.631	25.77
7	28.50	0.410	936.67	100.00	27821.758	100.00

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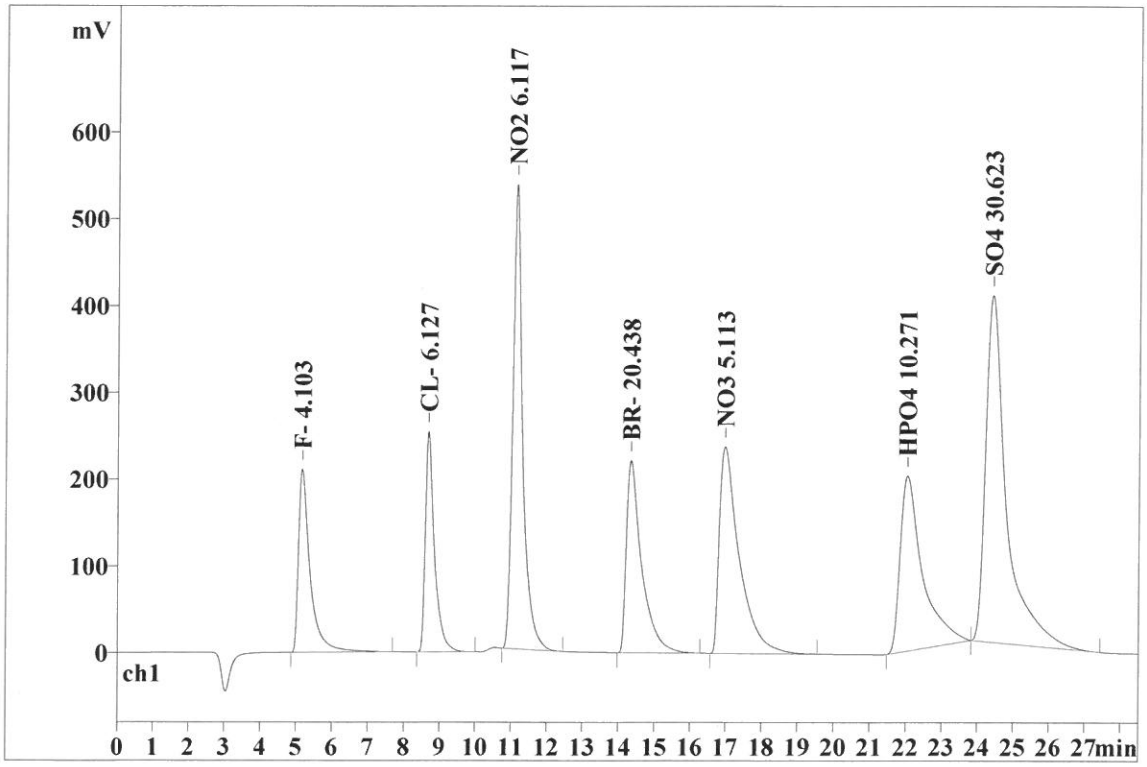
METROHM LTD

Report date: 1/16/2019 1:22:52 PM
Printed by: wet

Ident: STD6
Analysis from: 1/14/2019 12:13:10 PM
File: _2019-01-14_ Last save: 1/14/2019 2:23:38 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19573

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 mV	Height %	Area mV*sec	Area %
1	5.16	0.306	211.24	10.25	4777.447	7.91
2	8.68	0.245	253.90	12.32	4490.724	7.43
3	11.15	0.267	535.29	25.97	10439.065	17.28
4	14.34	0.415	221.29	10.74	6621.473	10.96
5	16.98	0.550	237.87	11.54	9228.550	15.28
6	22.04	0.573	201.73	9.79	8680.861	14.37
7	24.42	0.519	399.76	19.40	16168.465	26.77
7	28.50	0.411	2061.08	100.00	60406.586	100.00

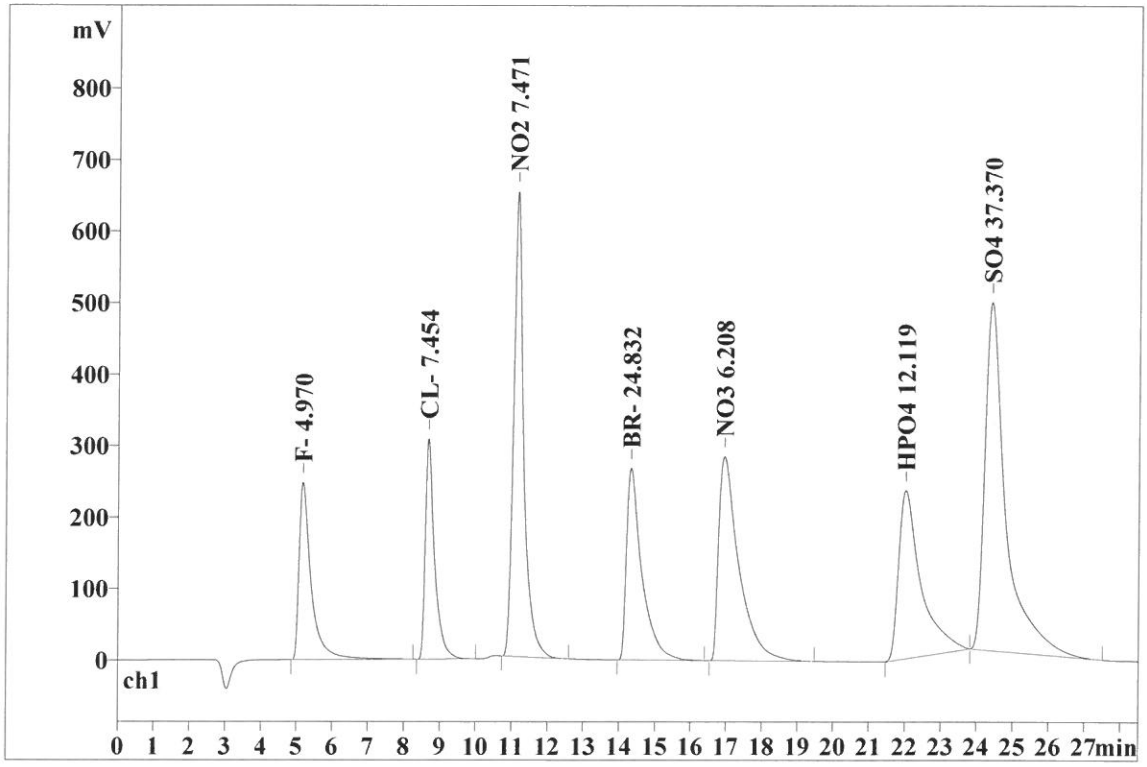
This report has been created by IC Net
METROHM LTD

Report date: 1/16/2019 1:23:02 PM
Printed by: wet

Ident: STD7
Analysis from: 1/14/2019 12:44:35 PM
File: _2019-01-14_ Last save: 1/14/2019 2:23:53 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19574

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 mV	Height %	Area mV*sec	Area %
1	5.17	0.315	247.64	9.98	5805.210	7.92
2	8.68	0.246	308.18	12.41	5474.401	7.47
3	11.15	0.269	650.67	26.21	12802.674	17.46
4	14.32	0.416	268.09	10.80	8064.804	11.00
5	16.94	0.560	285.20	11.49	11231.677	15.32
6	22.02	0.575	235.30	9.48	10126.698	13.81
7	24.41	0.522	487.12	19.62	19804.577	27.01
7	28.50	0.415	2482.21	100.00	73310.041	100.00

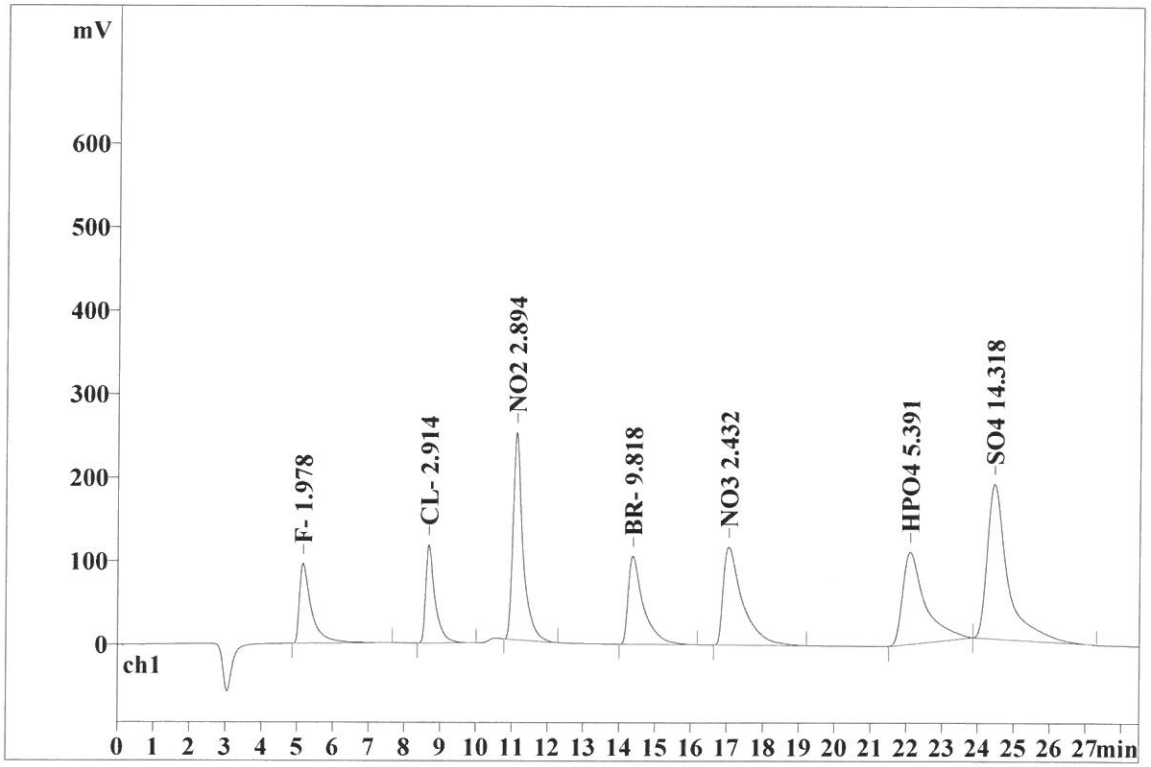
This report has been created by IC Net
METROHM LTD

Report date: 1/16/2019 1:27:53 PM
Printed by: wet

Ident: ICV
Analysis from: 1/14/2019 2:18:53 PM
File: _2019-01-14_ Last save: 1/15/2019 9:21:42 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 8:30:
Run operator: wet
Analysis number: 19577

SAMPLE:
: AK/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

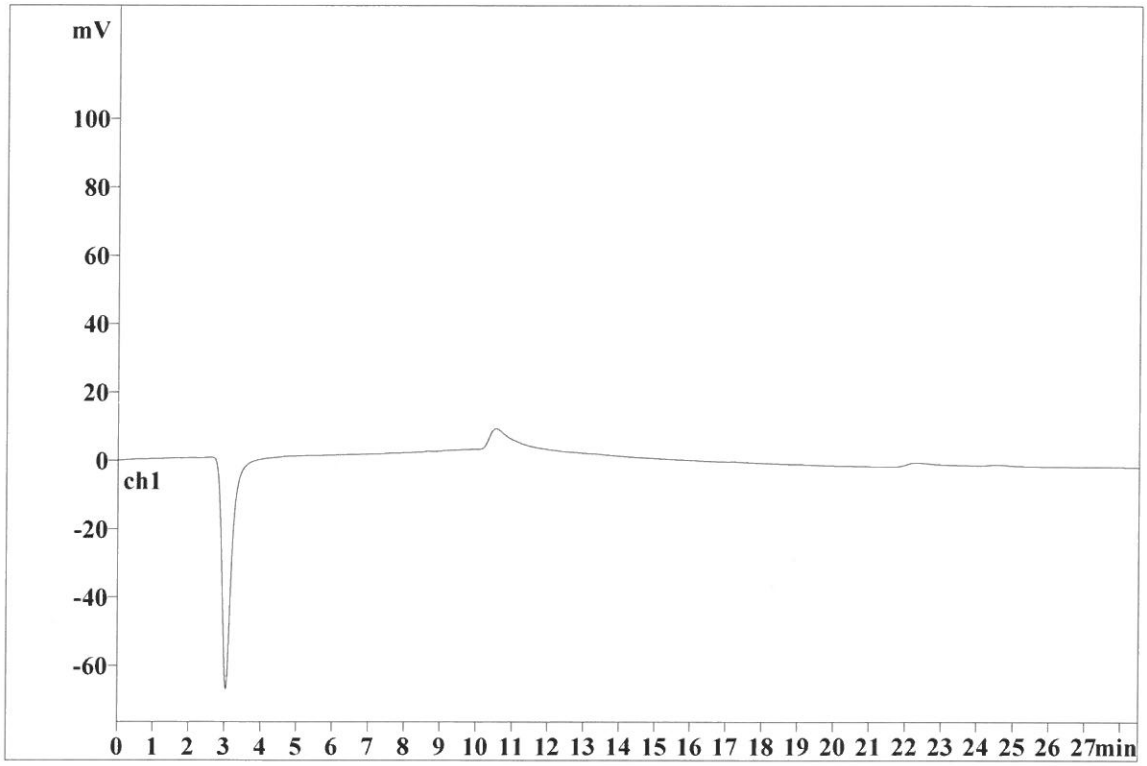


Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.16	0.312	95.72	9.76	2258.367	7.84
2	8.68	0.247	117.41	11.98	2110.977	7.33
3	11.12	0.263	248.41	25.34	4814.299	16.72
4	14.38	0.400	105.57	10.77	3115.955	10.82
5	17.05	0.504	117.37	11.97	4322.411	15.01
6	22.09	0.577	110.36	11.26	4796.548	16.66
7	24.46	0.514	185.31	18.91	7376.427	25.62
7	28.50	0.402	980.17	100.00	28794.983	100.00

This report has been created by IC Net
METROHM LTD

Report date:	1/16/2019 1:28:02 PM		
Printed by:	wet		
Ident:	ICB		
Analysis from:	1/14/2019 2:54:05 PM		
File:	_2019-01-14_	Last save:	1/15/2019 9:21:42 AM
Method:	AnionsIC2-011419.mtw	Last save:	1/14/2019 8:30:
Run operator:	wet		
Analysis number:	19578		
SAMPLE:			
:	AK/AP		
Vial number:	12		
Volume:	20.0 µL		
Dilution:	1.00		
Amount:	1.0000		



Quantitation method: Custom

No peaks

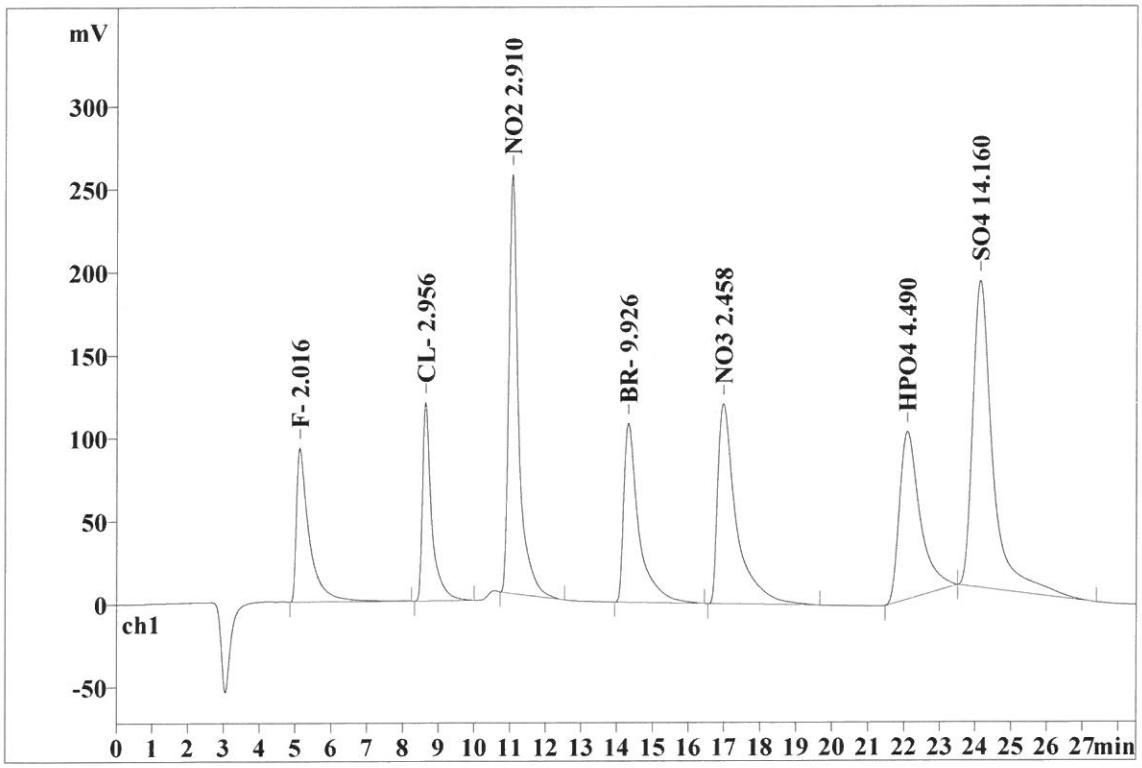
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:33:37 AM
Printed by: wet

Ident: CCV
Analysis from: 1/21/2019 8:09:04 AM
File: _2019-01-21_ Last save: 1/21/2019 8:43:56 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19638

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 mV	Height %	Area mV*sec	Area %
1	5.13	0.325	92.76	9.47	2302.301	8.17
2	8.64	0.236	119.60	12.21	2141.411	7.60
3	11.07	0.256	252.67	25.80	4841.912	17.19
4	14.33	0.384	107.87	11.02	3151.530	11.19
5	16.98	0.480	120.45	12.30	4370.585	15.51
6	22.09	0.587	101.02	10.32	4072.885	14.46
7	24.15	0.537	184.85	18.88	7291.375	25.88
7	28.50	0.401	979.20	100.00	28171.999	100.00

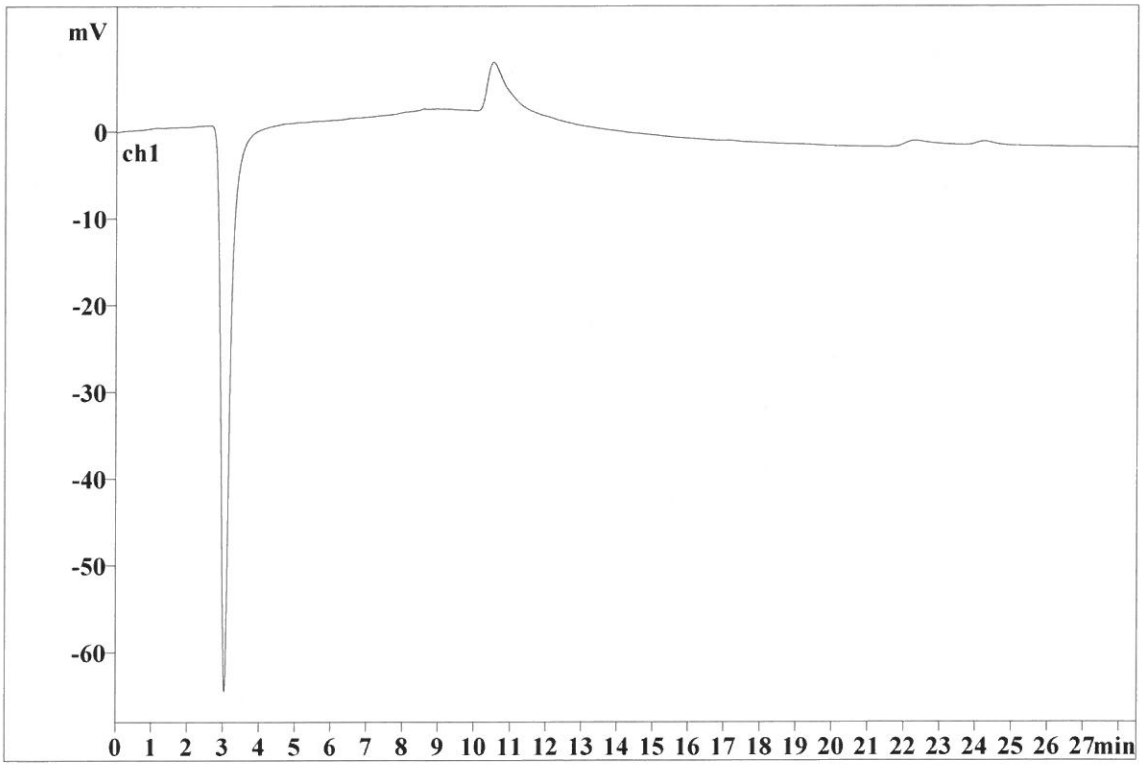
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:33:44 AM
Printed by: wet

Ident: CCB
Analysis from: 1/21/2019 8:47:04 AM
File: _2019-01-21_ Last save: 1/21/2019 9:15:35 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19639

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



Quantitation method: Custom

No peaks

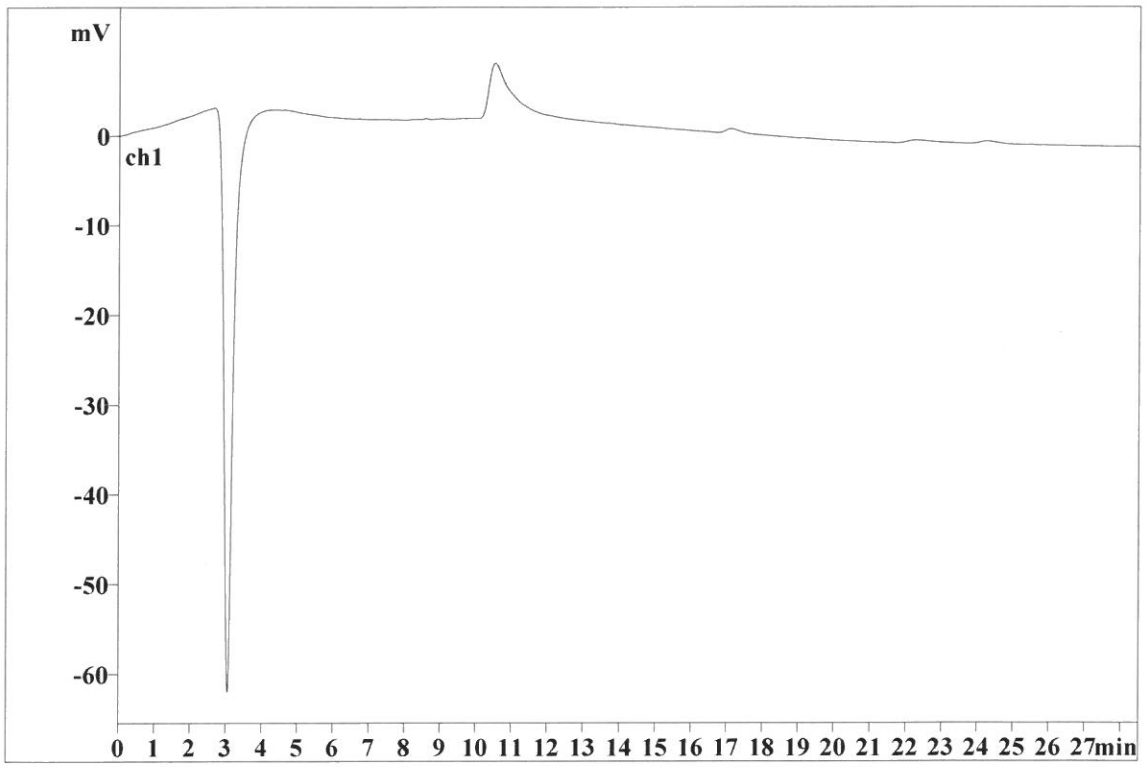
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:33:50 AM
Printed by: wet

Ident: LB100408BLW
Analysis from: 1/21/2019 9:18:31 AM
File: _2019-01-21_ Last save: 1/21/2019 11:32:43 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19640

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



Quantitation method: Custom

No peaks

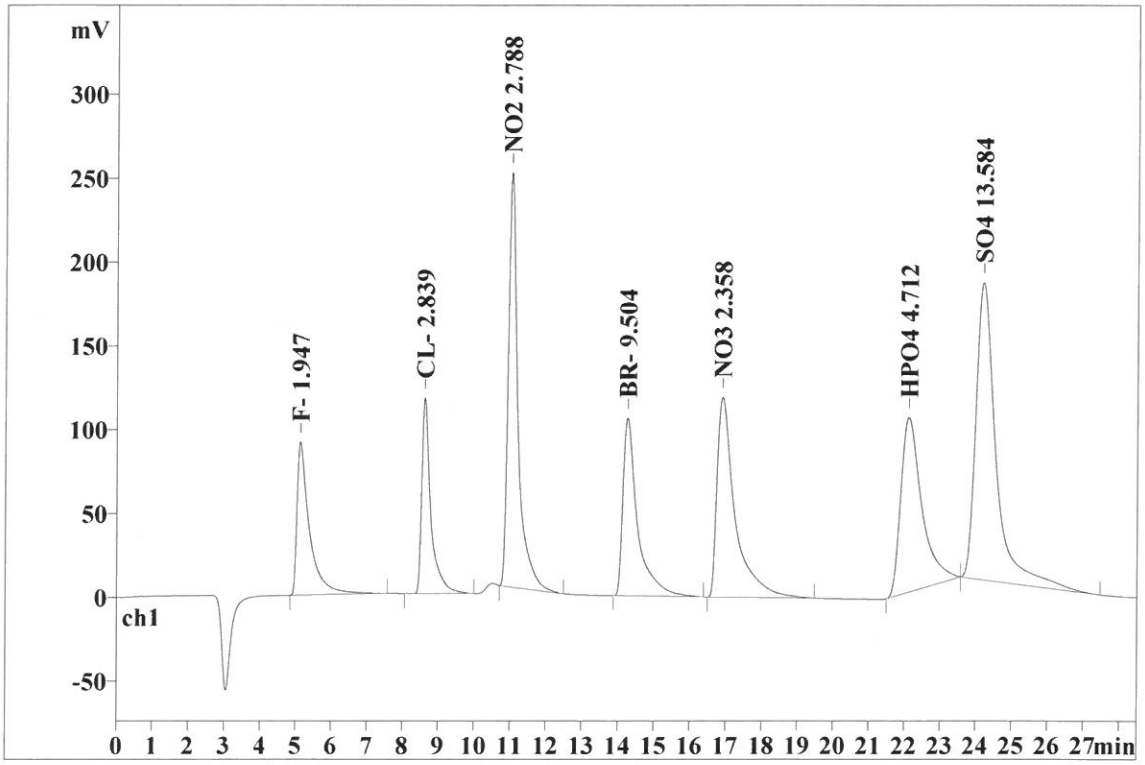
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:34:10 AM
Printed by: wet

Ident: LB100408BSW
Analysis from: 1/21/2019 9:49:56 AM
File: _2019-01-21_ Last save: 1/21/2019 11:34:04 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19641

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 mV	Height %	Area mV*sec	Area %
1	5.13	0.319	91.34	9.49	2220.554	8.12
2	8.62	0.231	116.70	12.12	2055.309	7.52
3	11.04	0.249	247.48	25.71	4629.399	16.93
4	14.27	0.369	106.15	11.03	3012.033	11.02
5	16.90	0.461	119.26	12.39	4187.837	15.32
6	22.12	0.590	104.31	10.84	4250.797	15.55
7	24.21	0.537	177.43	18.43	6980.728	25.54
7	28.50	0.394	962.68	100.00	27336.657	100.00

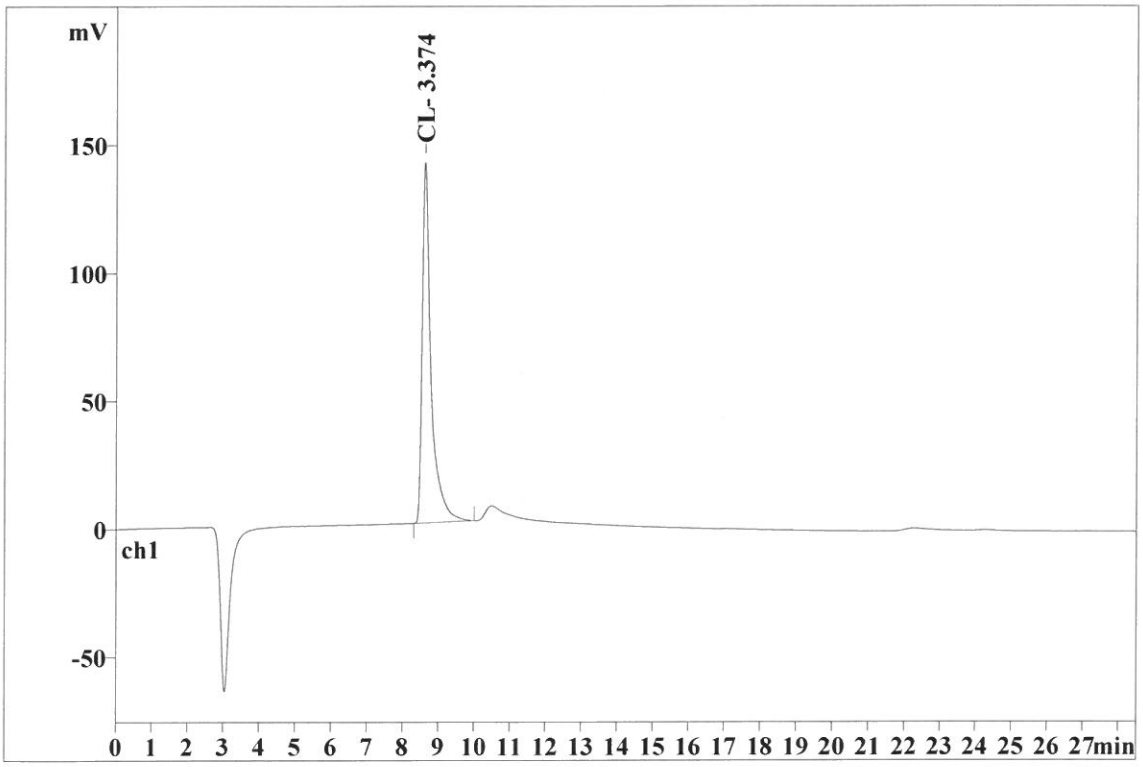
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:34:18 AM
Printed by: wet

Ident: K1098-01DLX50
Analysis from: 1/21/2019 10:40:47 AM
File: _2019-01-21_ Last save: 1/21/2019 11:09:17 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19642

SAMPLE:
: AK/AP
Vial number: 30
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	0.00	0.000	0.00	0.00	0.000	0.00
2	8.62	0.227	140.85	100.00	2451.692	100.00
3	0.00	0.000	0.00	0.00	0.000	0.00
4	0.00	0.000	0.00	0.00	0.000	0.00
5	0.00	0.000	0.00	0.00	0.000	0.00
6	0.00	0.000	0.00	0.00	0.000	0.00
7	0.00	0.000	0.00	0.00	0.000	0.00
7	28.50	0.032	140.85	100.00	2451.692	100.00

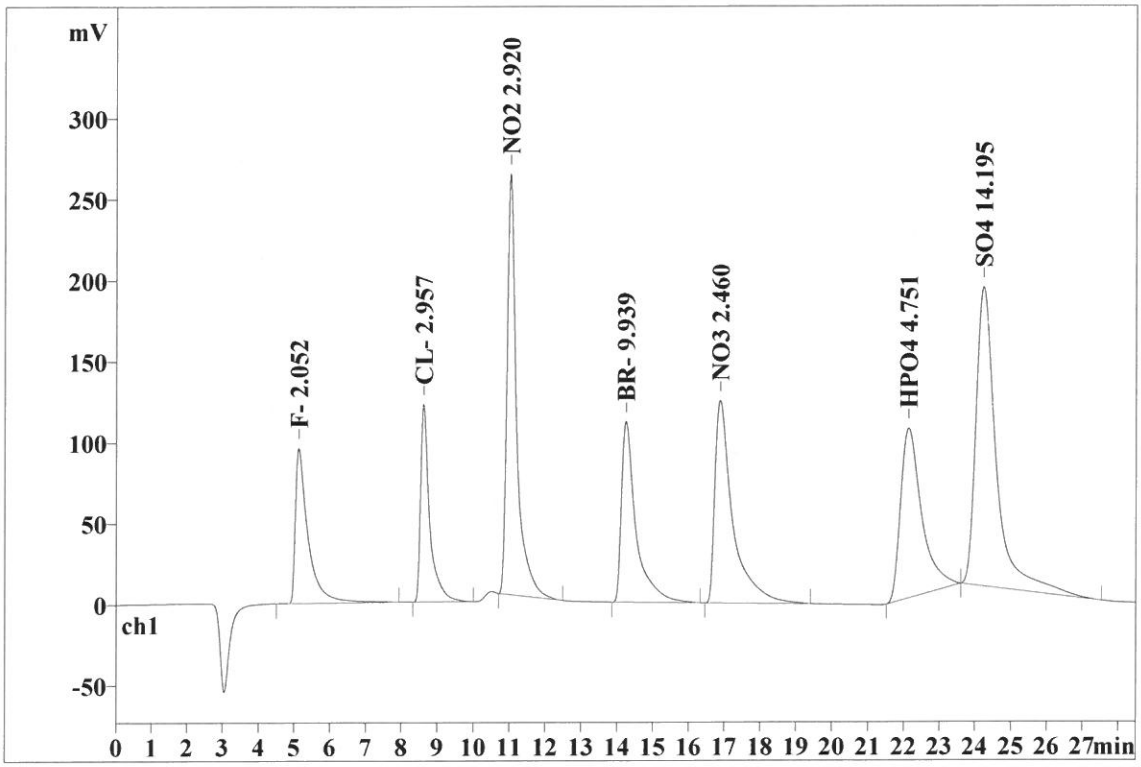
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 11:47:41 AM
Printed by: wet

Ident: CCV
Analysis from: 1/21/2019 11:18:27 AM
File: _2019-01-21_ Last save: 1/21/2019 11:47:40 AM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19643

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 mV	Height %	Area mV*sec	Area %
1	5.13	0.321	95.77	9.54	2345.410	8.24
2	8.62	0.230	122.07	12.16	2142.748	7.53
3	11.03	0.248	259.85	25.89	4858.827	17.07
4	14.25	0.367	111.56	11.12	3155.709	11.08
5	16.89	0.459	125.01	12.45	4374.872	15.37
6	22.13	0.591	104.85	10.45	4282.183	15.04
7	24.24	0.539	184.56	18.39	7310.013	25.68
7	28.50	0.394	1003.68	100.00	28469.763	100.00

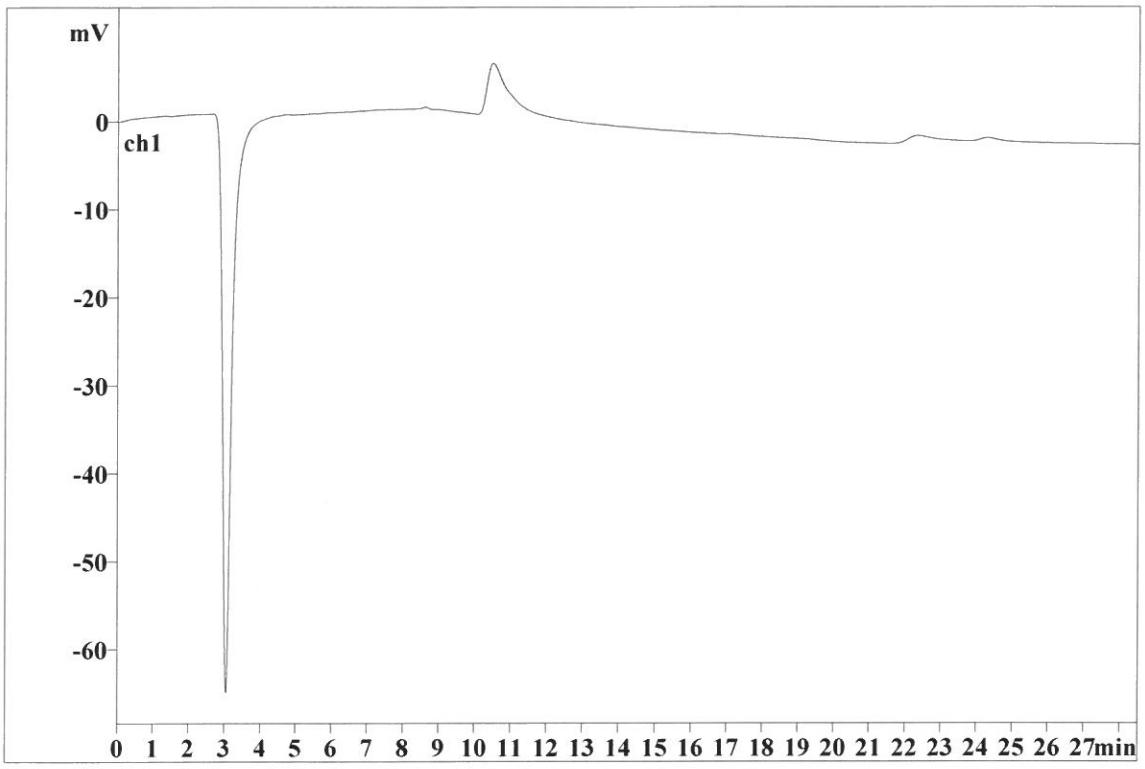
This report has been created by IC Net
METROHM LTD

Report date: 1/21/2019 12:20:03 PM
Printed by: wet

Ident: CCB
Analysis from: 1/21/2019 11:49:52 AM
File: _2019-01-21_ Last save: 1/21/2019 12:18:22 PM

Method: AnionsIC2-011419.mtw Last save: 1/14/2019 3:31:
Run operator: wet
Analysis number: 19644

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



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD