

Clear table

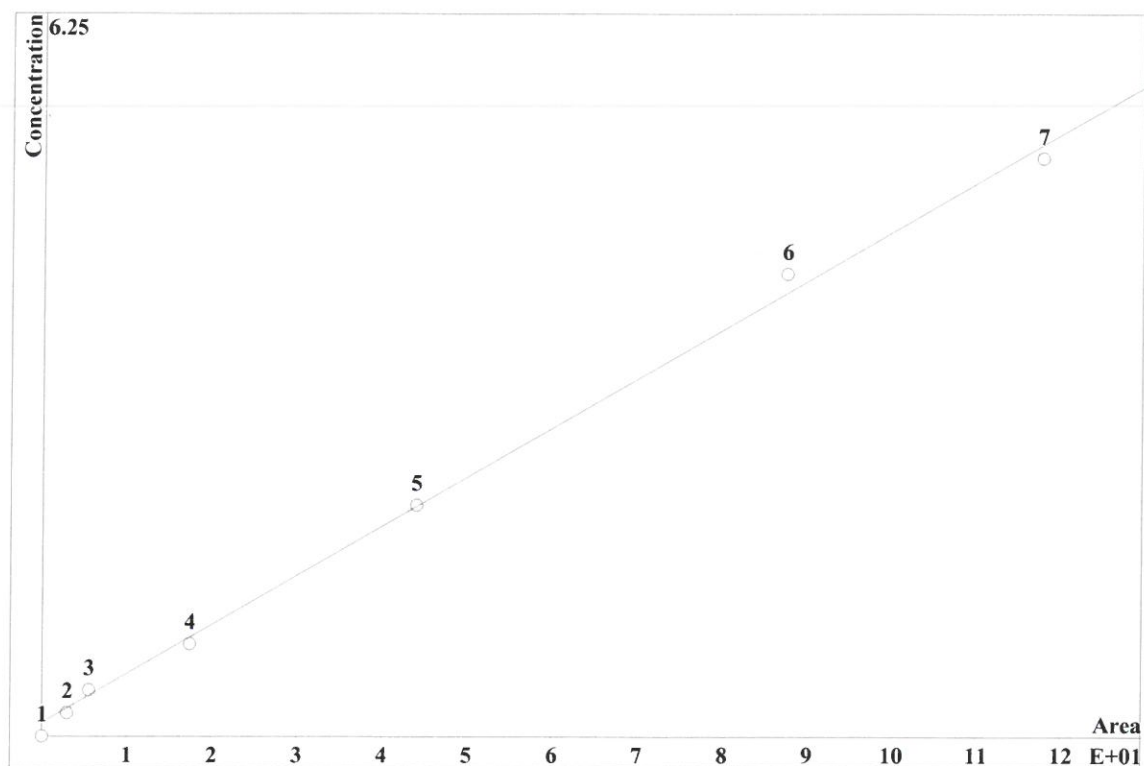
IC-4 300.0  
04-09-19 AL

| ident       | concentra<br>tion F- | concentrati<br>on CL- | concentrati<br>on NO2 | concentrati<br>on BR- | concentrati<br>on NO3 | concentrati<br>on HPO4 | concentrati<br>on SO4 | file name           | date time    | Initial wt/<br>Final Vol | Analyst |
|-------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|---------------------|--------------|--------------------------|---------|
| STD1        | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 0.0000_2019-04-01_  | 4/1/19 14:45 |                          | AK/AP   |
| STD2        | 0.2420               | 0.3950                | 0.4210                | 1.3160                | 0.3330                | 0.0850                 | 2.1600                | 2.1600_2019-04-01_  | 4/1/19 15:15 |                          | AK/AP   |
| STD3        | 0.3550               | 0.6640                | 0.6770                | 2.2100                | 0.5480                | 0.9520                 | 3.4050                | 3.4050_2019-04-01_  | 4/1/19 15:45 |                          | AK/AP   |
| STD4        | 0.8590               | 1.2040                | 1.1760                | 3.9160                | 0.9840                | 2.3120                 | 5.8890                | 5.8890_2019-04-01_  | 4/1/19 16:15 |                          | AK/AP   |
| STD5        | 1.9900               | 2.8380                | 2.8140                | 9.5260                | 2.3750                | 5.4170                 | 13.8990               | 13.8990_2019-04-01_ | 4/1/19 16:45 |                          | AK/AP   |
| STD6        | 3.8370               | 5.8000                | 5.8100                | 19.4800               | 4.8710                | 9.8430                 | 29.1880               | 29.1880_2019-04-01_ | 4/1/19 17:15 |                          | AK/AP   |
| STD7        | 5.1180               | 7.6990                | 7.7020                | 25.5520               | 6.3890                | 12.3910                | 38.4580               | 38.4580_2019-04-01_ | 4/1/19 17:45 |                          | AK/AP   |
| ICV         | 2.0420               | 2.9360                | 2.8500                | 9.6510                | 2.3950                | 5.2980                 | 14.0050               | 14.0050_2019-04-01_ | 4/1/19 18:15 |                          | AK/AP   |
| ICB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 0.0000_2019-04-01_  | 4/1/19 18:44 |                          | AK/AP   |
| CCV         | 2.1490               | 3.0010                | 2.9130                | 9.6870                | 2.4190                | 5.0150                 | 14.3760               | 14.3760_2019-04-08_ | 4/8/19 8:16  |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 0.0000_2019-04-08_  | 4/8/19 8:52  |                          | AK/AP   |
| LB101953BLW | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 0.0000_2019-04-08_  | 4/8/19 9:22  |                          | AK/AP   |
| LB101953BSW | 2.0260               | 2.9910                | 2.9930                | 9.8690                | 2.4800                | 5.2710                 | 14.9510               | 14.9510_2019-04-08_ | 4/8/19 11:10 |                          | AK/AP   |
| K2331-03    | 0.2700               | 645.5430              | 0.0000                | 0.0000                | 3.6090                | 0.0000                 | 34.8830               | 34.8830_2019-04-08_ | 4/8/19 11:42 |                          | AK/AP   |
| K2332-02    | 0.3950               | 133.0090              | 0.3180                | 0.0000                | 1.5650                | 0.0000                 | 13.3020               | 13.3020_2019-04-08_ | 4/8/19 12:12 |                          | AK/AP   |
| K2333-03    | 0.0000               | 238.7930              | 0.2590                | 0.0000                | 0.9170                | 0.0000                 | 13.3430               | 13.3430_2019-04-08_ | 4/8/19 12:41 |                          | AK/AP   |
| K2331-03DUP | 0.2480               | 645.8380              | 0.0000                | 0.0000                | 3.7070                | 0.0000                 | 34.4260               | 34.4260_2019-04-08_ | 4/8/19 13:11 |                          | AK/AP   |
| K2331-03MS  | 2.4470               | 581.7910              | 2.8980                | 10.4270               | 5.9500                | 6.6090                 | 47.3480               | 47.3480_2019-04-08_ | 4/8/19 13:41 |                          | AK/AP   |
| K2331-03MSD | 2.3640               | 589.3550              | 2.7500                | 10.0310               | 6.0500                | 6.3010                 | 48.1020               | 48.1020_2019-04-08_ | 4/8/19 14:11 |                          | AK/AP   |
| CCV         | 2.0470               | 2.9380                | 2.8710                | 9.9650                | 2.4890                | 5.6310                 | 14.5590               | 14.5590_2019-04-08_ | 4/8/19 14:41 |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 0.0000_2019-04-08_  | 4/8/19 15:57 |                          | AK/AP   |

# CALIBRATION OF COMPONENT F-

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 0.850073 \cdot A + 2.38966$   
 RSD: 5.300 %  
 Correlation coefficient: 0.998812

IC-1 Cal 04-01-19  
 AK



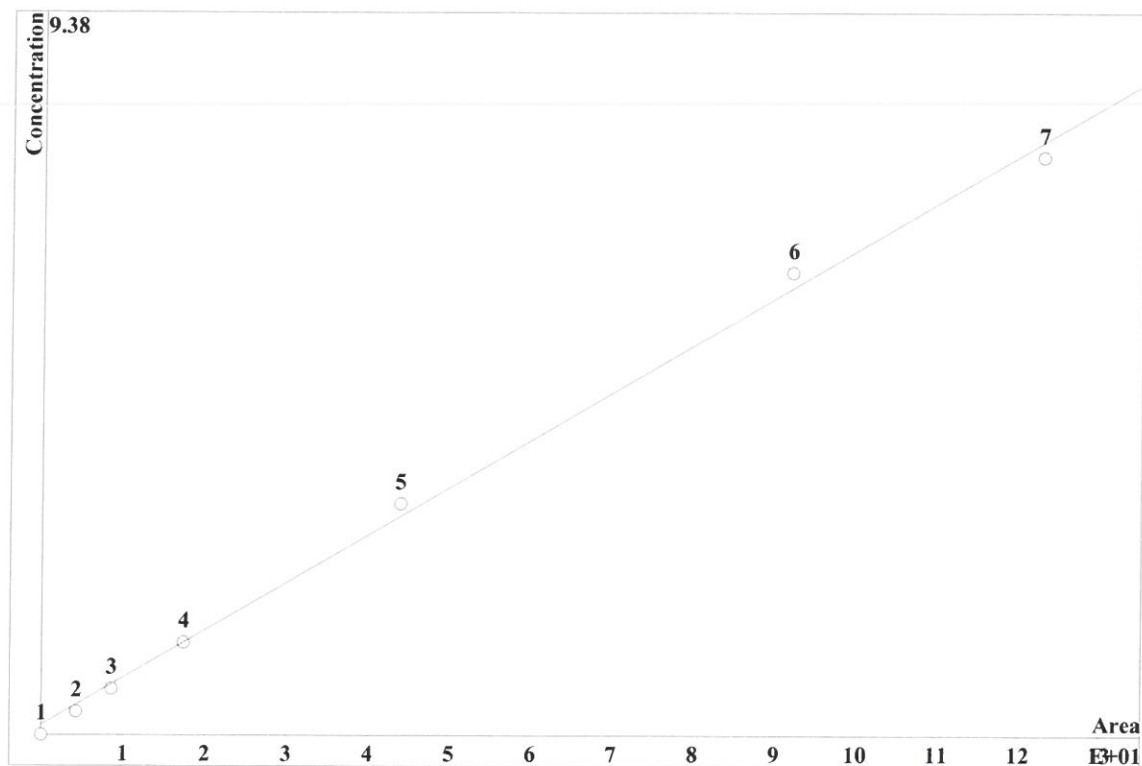
K3 = 0      K2 = 0      K1 = 0.850073      K0 = 2.38966

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     | 0.08978 | 2.891 | 0.2   | 20      | 5.857     | Yes  |      |
| 3     | 0.184   | 5.533 | 0.4   | 20      | 5.857     | Yes  |      |
| 4     | 0.4367  | 17.4  | 0.8   | 20      | 5.857     | Yes  |      |
| 5     | 1.178   | 44    | 2     | 20      | 5.857     | Yes  |      |
| 6     | 2.443   | 87.45 | 4     | 20      | 5.857     | Yes  |      |
| 7     | 3.28    | 117.6 | 5     | 20      | 5.857     | Yes  |      |

CALIBRATION OF COMPONENT CL-

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 1.23227 \cdot A + 2.65078$   
 RSD: 5.559 %  
 Correlation coefficient: 0.998693



K3 = 0      K2 = 0      K1 = 1.23227      K0 = 2.65078

Base: Area

Ref.channel: Cond

ISTD:

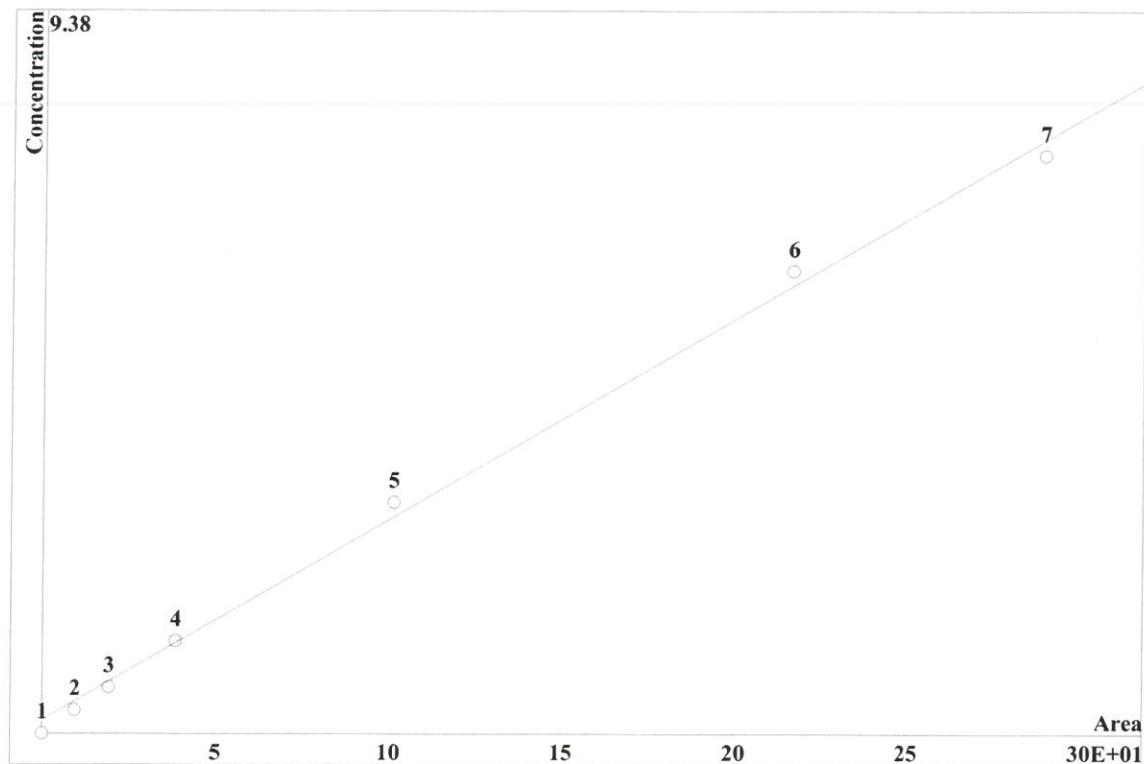
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.2383 | 4.254 | 0.3   | 20      | 8.619     |      | Yes  |
| 3     | 0.4724 | 8.624 | 0.6   | 20      | 8.619     |      | Yes  |
| 4     | 0.9485 | 17.39 | 1.2   | 20      | 8.619     |      | Yes  |
| 5     | 2.509  | 43.91 | 3     | 20      | 8.619     |      | Yes  |
| 6     | 5.288  | 91.99 | 6     | 20      | 8.619     |      | Yes  |
| 7     | 6.932  | 122.8 | 7.5   | 20      | 8.619     |      | Yes  |

CALIBRATION OF COMPONENT NO2

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 0.520136 \cdot A + 3.53388$   
 RSD: 5.870 %  
 Correlation coefficient: 0.998543

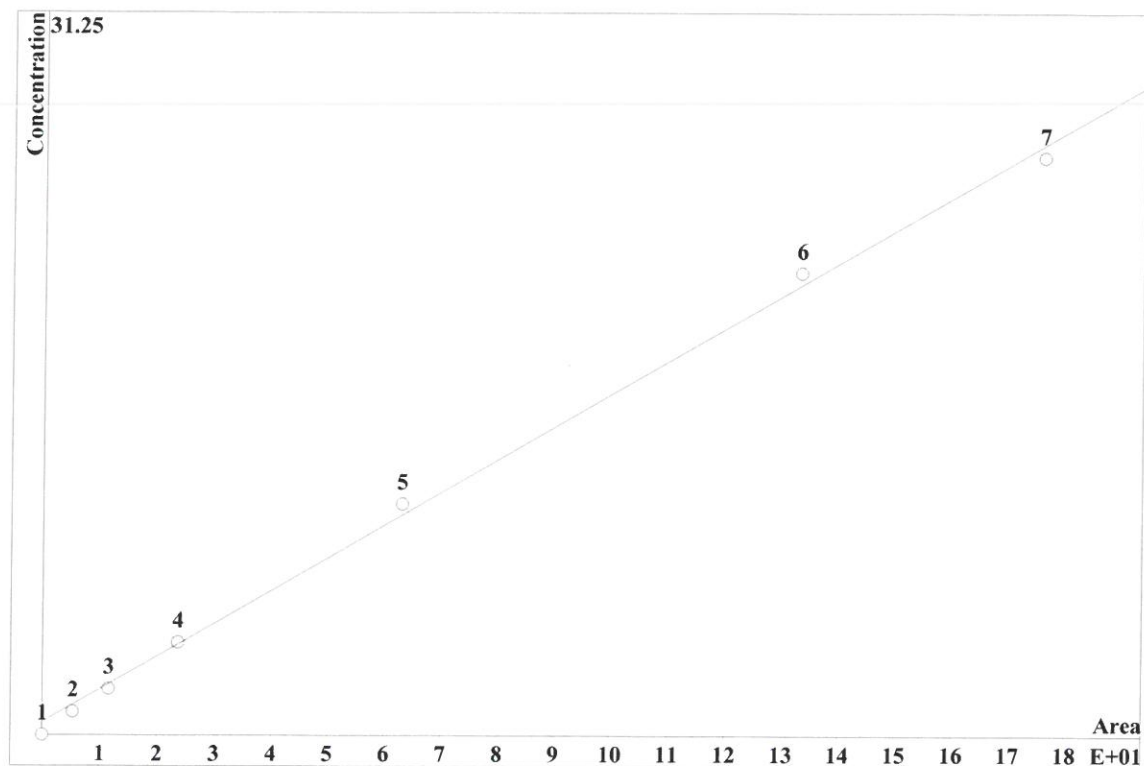


K3 = 0      K2 = 0      K1 = 0.520136      K0 = 3.53388  
 Base: Area  
 Ref.channel: Cond  
 ISTD:  
 Formula: Linear  
 Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.4408 | 9.392 | 0.3   | 20      | 10.26     |      | Yes  |
| 3     | 0.9167 | 19.24 | 0.6   | 20      | 10.26     |      | Yes  |
| 4     | 1.89   | 38.44 | 1.2   | 20      | 10.26     |      | Yes  |
| 5     | 5.111  | 101.4 | 3     | 20      | 10.26     |      | Yes  |
| 6     | 10.84  | 216.6 | 6     | 20      | 10.26     |      | Yes  |
| 7     | 14.16  | 289.3 | 7.5   | 20      | 10.26     |      | Yes  |

## CALIBRATION OF COMPONENT BR-

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 2.84019 \cdot A + 11.3194$   
 RSD: 4.718 %  
 Correlation coefficient: 0.999059



K3 = 0      K2 = 0      K1 = 2.84019      K0 = 11.3194

Base: Area

Ref.channel: Cond

ISTD:

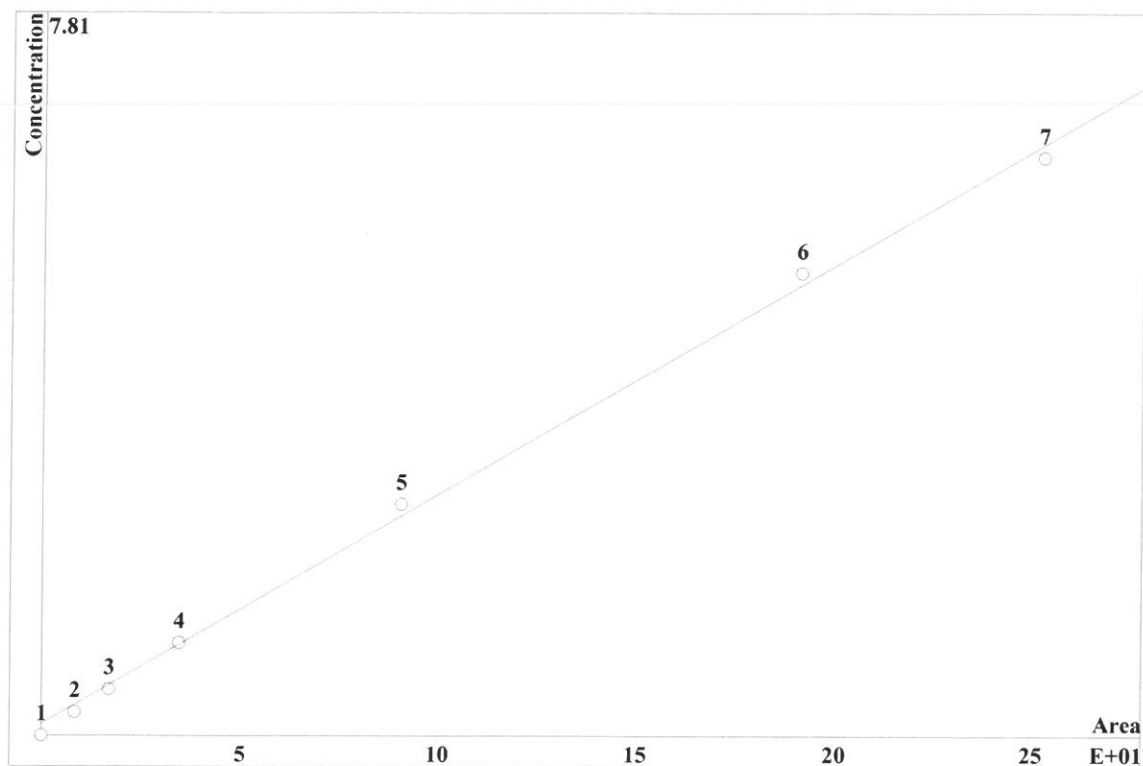
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.2429 | 5.284 | 1     | 20      | 13.02     |      | Yes  |
| 3     | 0.5046 | 11.58 | 2     | 20      | 13.02     |      | Yes  |
| 4     | 1.037  | 23.59 | 4     | 20      | 13.02     |      | Yes  |
| 5     | 2.685  | 63.1  | 10    | 20      | 13.02     |      | Yes  |
| 6     | 5.287  | 133.2 | 20    | 20      | 13.02     |      | Yes  |
| 7     | 6.658  | 175.9 | 25    | 20      | 13.02     |      | Yes  |

## CALIBRATION OF COMPONENT NO3

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 0.495818 \cdot A + 2.56709$   
 RSD: 4.784 %  
 Correlation coefficient: 0.999032



K3 = 0      K2 = 0      K1 = 0.495818      K0 = 2.56709

Base: Area

Ref.channel: Cond

ISTD:

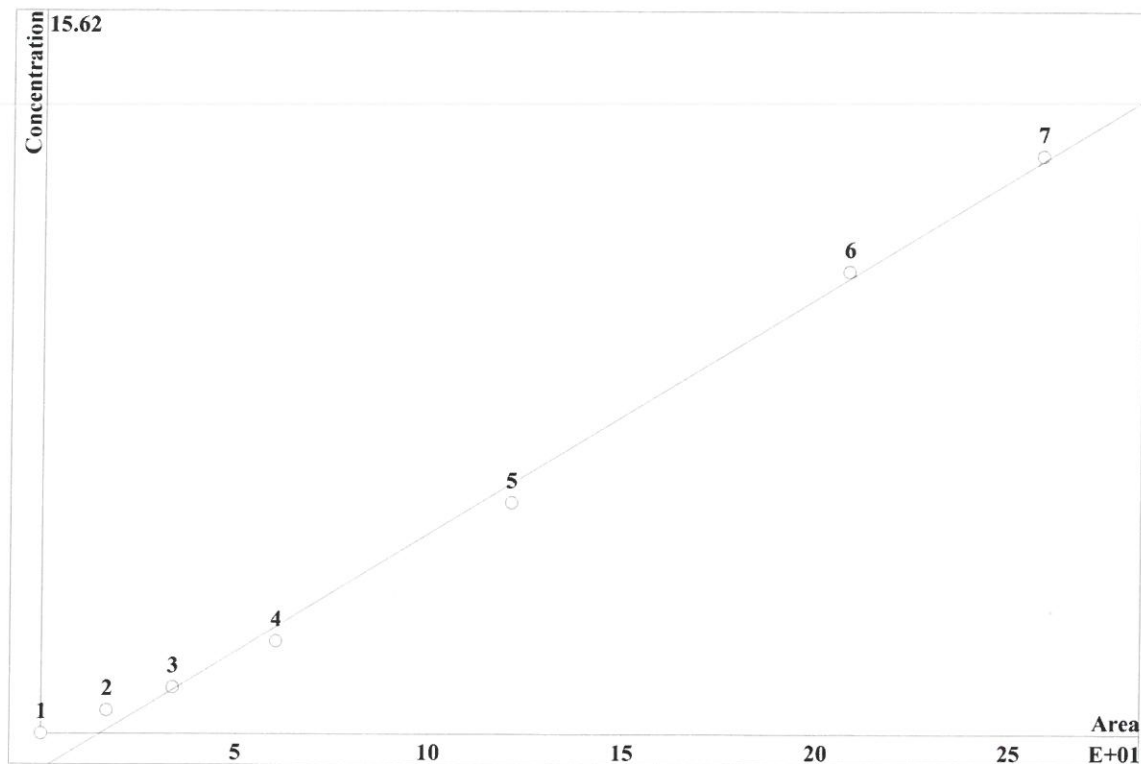
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.3145 | 8.269 | 0.25  | 20      | 14.78     |      | Yes  |
| 3     | 0.655  | 16.93 | 0.5   | 20      | 14.78     |      | Yes  |
| 4     | 1.351  | 34.51 | 1     | 20      | 14.78     |      | Yes  |
| 5     | 3.641  | 90.61 | 2.5   | 20      | 14.78     |      | Yes  |
| 6     | 7.792  | 191.3 | 5     | 20      | 14.78     |      | Yes  |
| 7     | 10.3   | 252.5 | 6.25  | 20      | 14.78     |      | Yes  |

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 1.0202 \cdot A - 15.37$   
 RSD: 6.723 %  
 Correlation coefficient: 0.998088

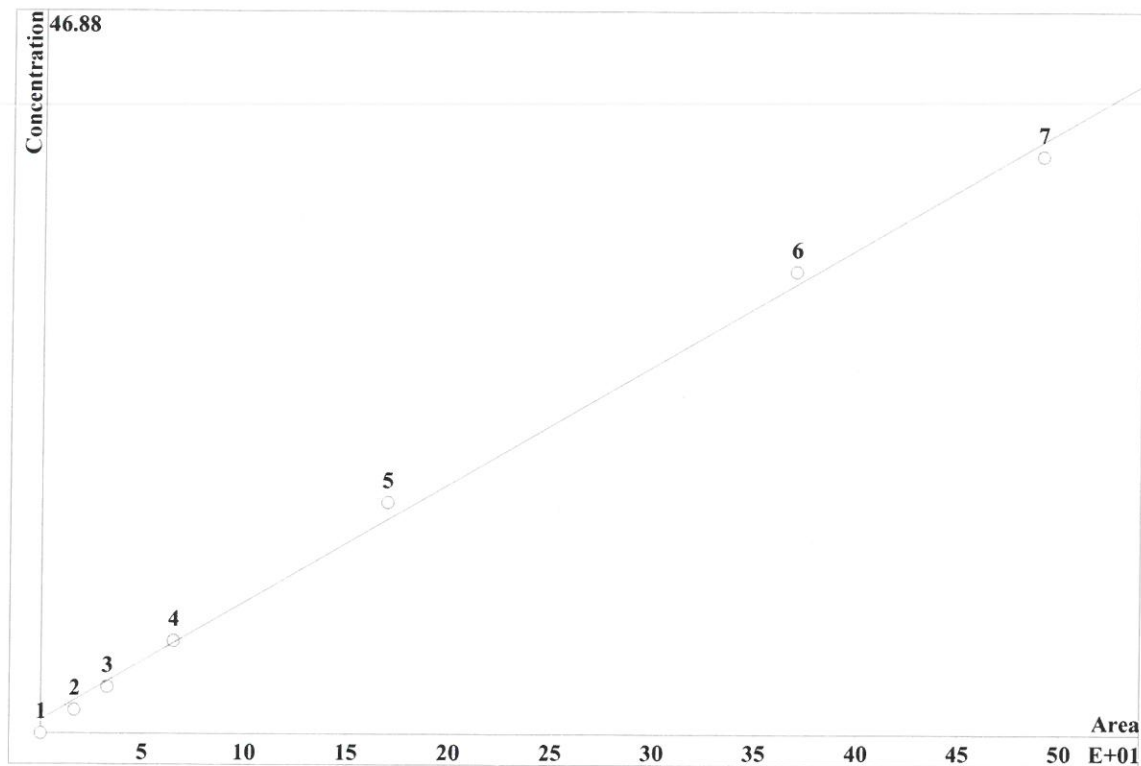


K3 = 0      K2 = 0      K1 = 1.0202      K0 = -15.37  
 Base: Area  
 Ref.channel: Cond  
 ISTD:  
 Formula: Linear  
 Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.3569 | 16.74 | 0.5   | 20      | 20.93     |      | Yes  |
| 3     | 0.7374 | 33.73 | 1     | 20      | 20.93     |      | Yes  |
| 4     | 1.368  | 60.39 | 2     | 20      | 20.93     |      | Yes  |
| 5     | 2.919  | 121.3 | 5     | 20      | 20.93     |      | Yes  |
| 6     | 5.342  | 208   | 10    | 20      | 20.93     |      | Yes  |
| 7     | 6.878  | 258   | 12.5  | 20      | 20.93     |      | Yes  |

CALIBRATION OF COMPONENT SO4

Method: ANIONS 04-01-19.mtw  
 Equation:  $Q = 1.53248 \cdot A + 17.8278$   
 RSD: 5.947 %  
 Correlation coefficient: 0.998504



K3 = 0      K2 = 0      K1 = 1.53248      K0 = 17.8278

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     | 0.4754 | 16.56 | 1.5   | 20      | 24.2      |      | Yes  |
| 3     | 0.9404 | 32.81 | 3     | 20      | 24.2      |      | Yes  |
| 4     | 1.907  | 65.23 | 6     | 20      | 24.2      |      | Yes  |
| 5     | 5.151  | 169.8 | 15    | 20      | 24.2      |      | Yes  |
| 6     | 11.08  | 369.3 | 30    | 20      | 24.2      |      | Yes  |
| 7     | 14.73  | 490.3 | 37.5  | 20      | 24.2      |      | Yes  |

Report date: 4/2/2019 12:30:16 PM  
Printed by: wet

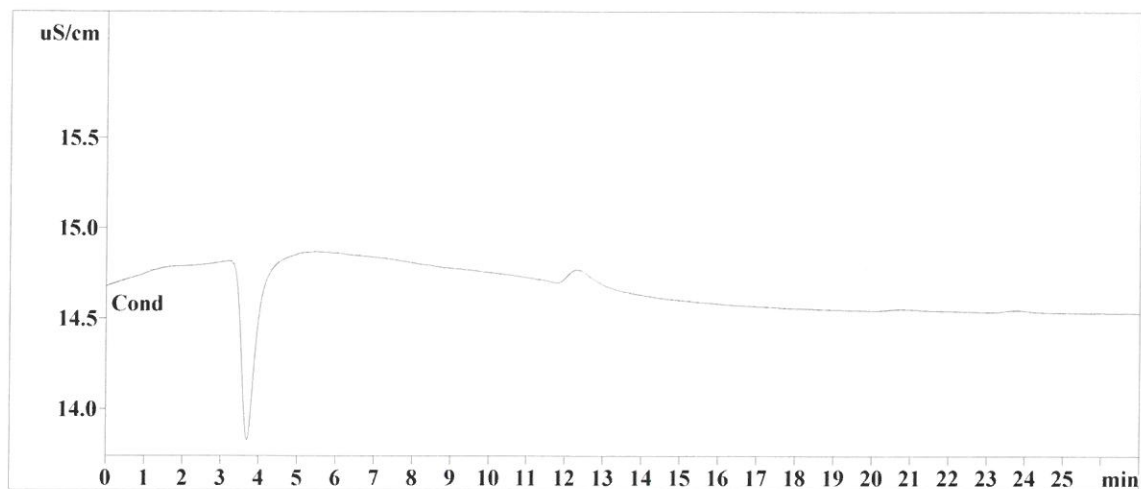
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Analysis from: 4/1/2019 2:45:15 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66206

Last save: 4/1/2019 5:42:04 PM

SAMPLE:  
: AK/AP  
Vial number: 2  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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Report date: 4/2/2019 12:30:28 PM  
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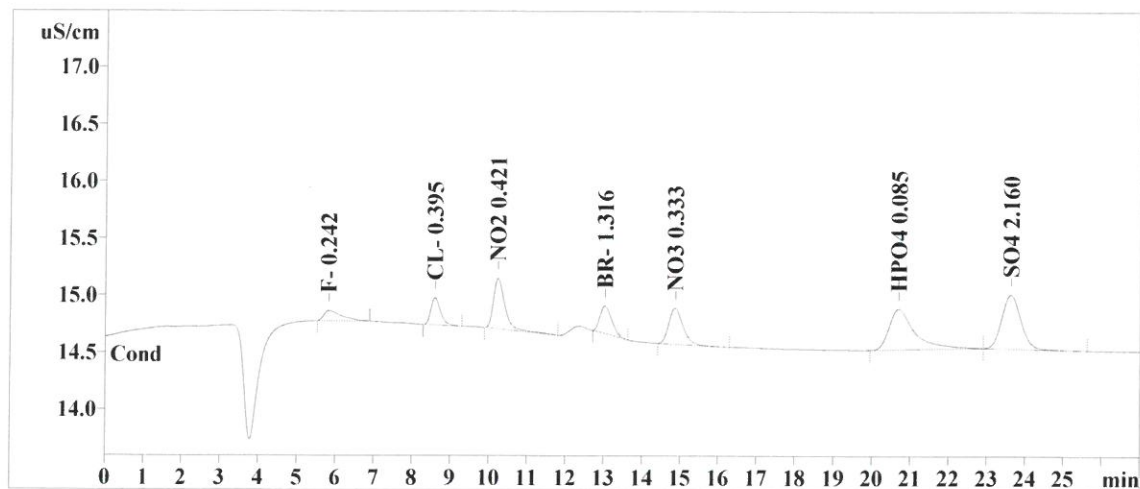
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 File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
 Run operator: wet  
 Analysis number: 66207

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.82             | 0.473          | 0.09            | 4.12        | 2.891             | 4.56      | 0. |
| 2  | 8.58             | 0.270          | 0.24            | 11.03       | 4.254             | 6.71      | 0. |
| 3  | 10.24            | 0.306          | 0.44            | 20.42       | 9.392             | 14.82     | 0. |
| 4  | 13.03            | 0.344          | 0.24            | 11.23       | 5.284             | 8.34      | 0. |
| 5  | 14.85            | 0.401          | 0.31            | 14.55       | 8.269             | 13.05     | 0. |
| 6  | 20.68            | 0.633          | 0.36            | 16.50       | 16.736            | 26.40     | 0. |
| 7  | 23.62            | 0.531          | 0.47            | 21.99       | 16.556            | 26.12     | 0. |
| 7  | 27.00            | 0.422          | 2.16            | 99.84       | 63.382            | 100.00    | 0. |

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Report date: 4/2/2019 12:30:45 PM  
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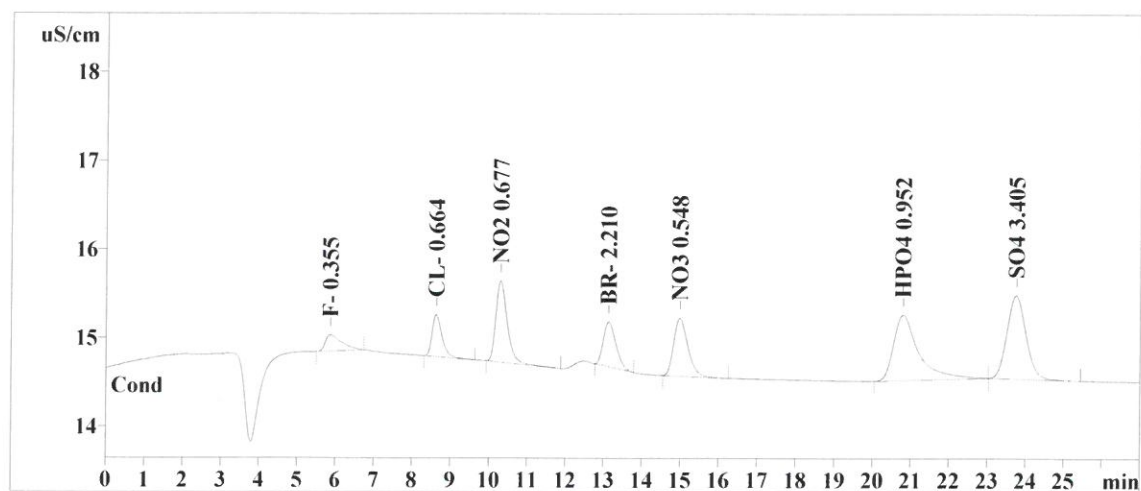
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Analysis from: 4/1/2019 3:45:29 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66208

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.86             | 0.476          | 0.18            | 4.16        | 5.533             | 4.31      | 0. |
| 2  | 8.62             | 0.272          | 0.47            | 10.70       | 8.624             | 6.71      | 0. |
| 3  | 10.30            | 0.310          | 0.92            | 20.77       | 19.242            | 14.98     | 0. |
| 4  | 13.13            | 0.359          | 0.50            | 11.43       | 11.578            | 9.01      | 0. |
| 5  | 14.99            | 0.394          | 0.65            | 14.84       | 16.932            | 13.18     | 0. |
| 6  | 20.79            | 0.617          | 0.74            | 16.71       | 33.725            | 26.26     | 0. |
| 7  | 23.75            | 0.536          | 0.94            | 21.32       | 32.807            | 25.54     | 0. |
| 7  | 27.00            | 0.423          | 4.41            | 99.94       | 128.441           | 100.00    | 0. |

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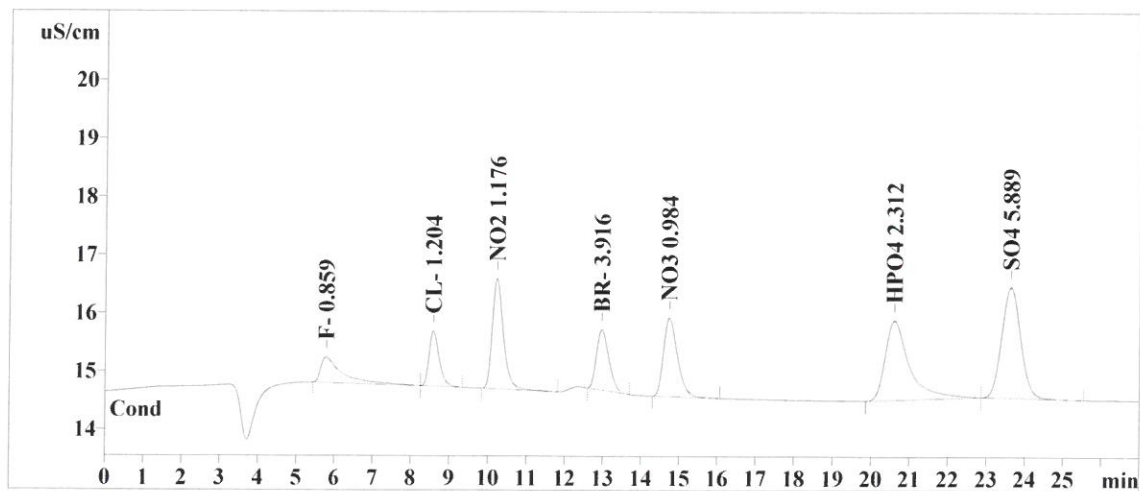
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Analysis from: 4/1/2019 4:15:24 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66209

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.78             | 0.493          | 0.44            | 4.88        | 17.396            | 6.77      | 0. |
| 2  | 8.58             | 0.278          | 0.95            | 10.61       | 17.390            | 6.77      | 0. |
| 3  | 10.22            | 0.302          | 1.89            | 21.14       | 38.441            | 14.96     | 0. |
| 4  | 12.96            | 0.355          | 1.04            | 11.60       | 23.589            | 9.18      | 0. |
| 5  | 14.73            | 0.388          | 1.35            | 15.11       | 34.508            | 13.43     | 0. |
| 6  | 20.60            | 0.597          | 1.37            | 15.30       | 60.391            | 23.50     | 0. |
| 7  | 23.63            | 0.526          | 1.91            | 21.33       | 65.227            | 25.39     | 0. |
| 7  | 27.00            | 0.420          | 8.93            | 99.96       | 256.941           | 100.00    | 0. |

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Report date: 4/2/2019 12:31:17 PM  
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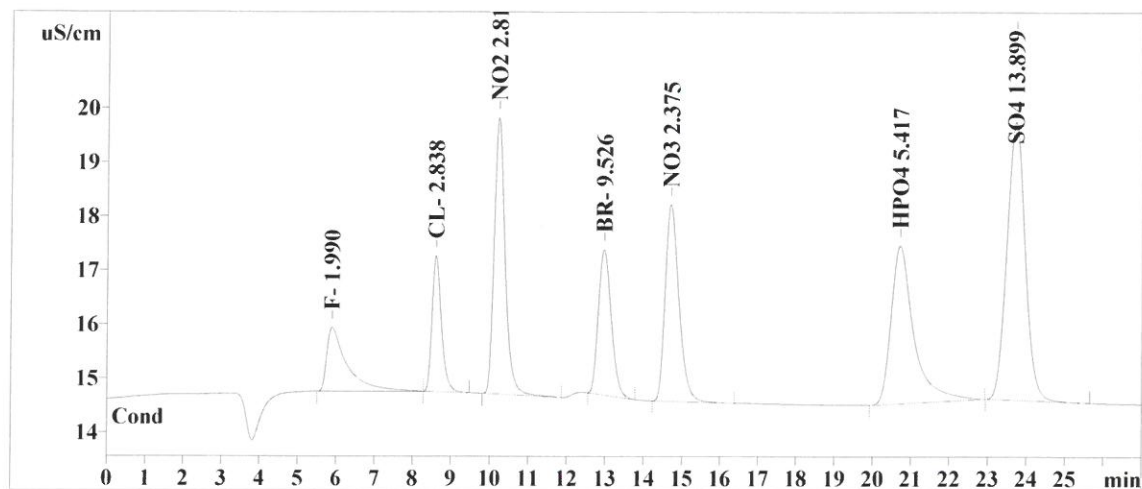
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Analysis from: 4/1/2019 4:45:19 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66210

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.88             | 0.485          | 1.18            | 5.08        | 44.004            | 6.94      | 0. |
| 2  | 8.59             | 0.263          | 2.51            | 10.82       | 43.909            | 6.92      | 0. |
| 3  | 10.21            | 0.295          | 5.11            | 22.04       | 101.408           | 15.99     | 0. |
| 4  | 12.96            | 0.366          | 2.69            | 11.58       | 63.097            | 9.95      | 0. |
| 5  | 14.69            | 0.376          | 3.64            | 15.69       | 90.615            | 14.29     | 0. |
| 6  | 20.70            | 0.569          | 2.92            | 12.59       | 121.268           | 19.13     | 0. |
| 7  | 23.70            | 0.505          | 5.15            | 22.21       | 169.764           | 26.77     | 0. |
| 7  | 27.00            | 0.409          | 23.19           | 99.99       | 634.063           | 100.00    | 0. |

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Report date: 4/2/2019 12:31:26 PM  
Printed by: wet

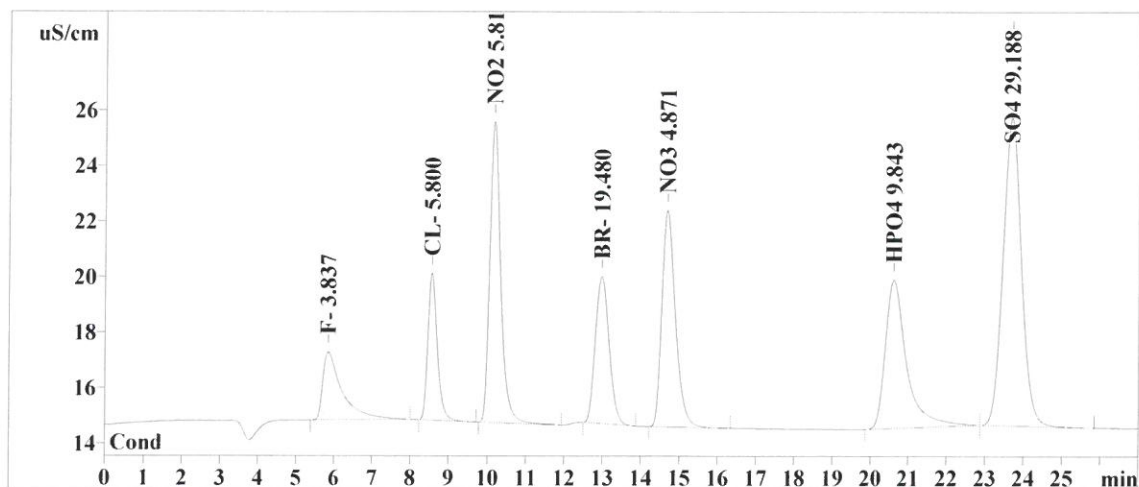
Ident: STD6  
Analysis from: 4/1/2019 5:15:14 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66211

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.84             | 0.474          | 2.44            | 5.08        | 87.454            | 6.74      | 0. |
| 2  | 8.55             | 0.260          | 5.29            | 11.00       | 91.992            | 7.09      | 0. |
| 3  | 10.16            | 0.295          | 10.84           | 22.55       | 216.608           | 16.69     | 0. |
| 4  | 12.97            | 0.396          | 5.29            | 11.00       | 133.186           | 10.26     | 0. |
| 5  | 14.67            | 0.370          | 7.79            | 16.21       | 191.309           | 14.74     | 0. |
| 6  | 20.61            | 0.537          | 5.34            | 11.11       | 208.030           | 16.03     | 0. |
| 7  | 23.67            | 0.509          | 11.08           | 23.05       | 369.299           | 28.45     | 0. |
| 7  | 27.00            | 0.406          | 48.07           | 99.99       | 1297.878          | 100.00    | 0. |

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Report date: 4/2/2019 12:31:34 PM  
Printed by: wet

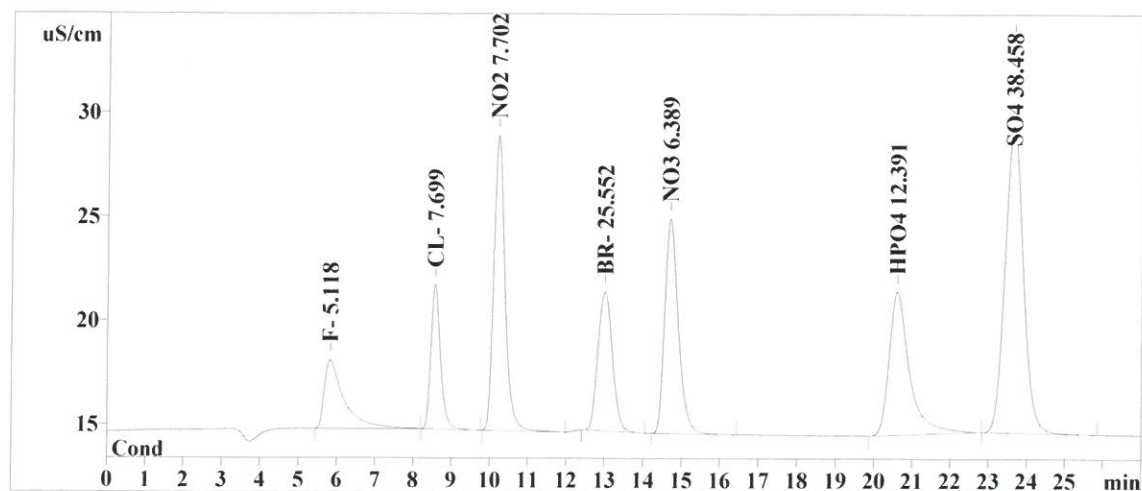
Ident: STD7  
Analysis from: 4/1/2019 5:45:09 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66212

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.81             | 0.476          | 3.28            | 5.21        | 117.596           | 6.89      | 0. |
| 2  | 8.56             | 0.265          | 6.93            | 11.01       | 122.807           | 7.20      | 0. |
| 3  | 10.20            | 0.304          | 14.16           | 22.50       | 289.341           | 16.96     | 0. |
| 4  | 12.99            | 0.417          | 6.66            | 10.58       | 175.944           | 10.31     | 0. |
| 5  | 14.69            | 0.369          | 10.30           | 16.36       | 252.532           | 14.80     | 0. |
| 6  | 20.59            | 0.519          | 6.88            | 10.93       | 257.970           | 15.12     | 0. |
| 7  | 23.63            | 0.508          | 14.73           | 23.41       | 490.270           | 28.73     | 0. |
| 7  | 27.00            | 0.408          | 62.93           | 100.00      | 1706.460          | 100.00    | 0. |

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Report date: 4/2/2019 12:35:12 PM  
Printed by: wet

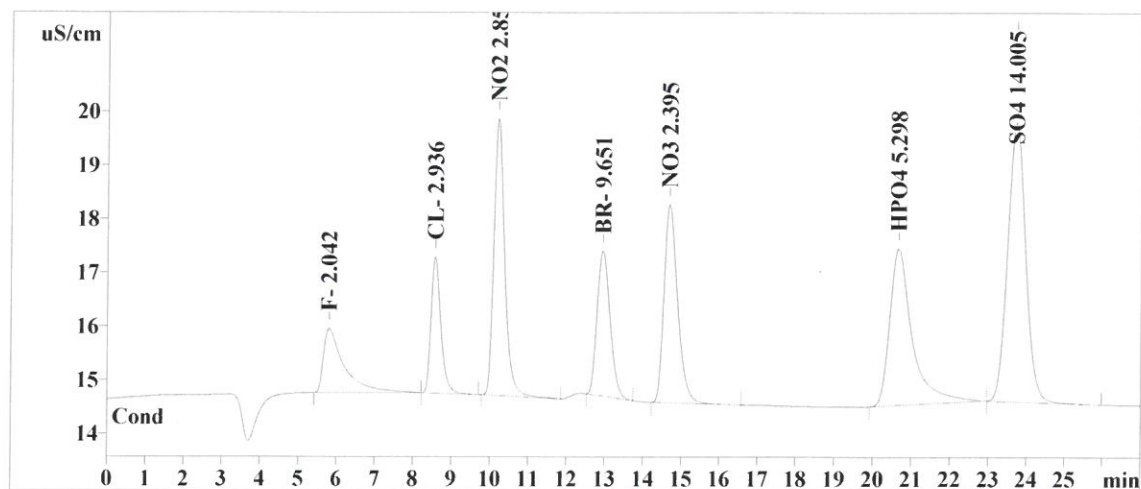
Ident: ICV  
Analysis from: 4/1/2019 6:15:04 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66213

Last save: 4/1/2019 5:42:04 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.80             | 0.497          | 1.19            | 5.09        | 45.243            | 7.08      | 0. |
| 2  | 8.57             | 0.269          | 2.53            | 10.82       | 45.503            | 7.12      | 0. |
| 3  | 10.20            | 0.296          | 5.16            | 22.06       | 102.789           | 16.09     | 0. |
| 4  | 12.94            | 0.370          | 2.70            | 11.55       | 63.974            | 10.01     | 0. |
| 5  | 14.68            | 0.374          | 3.68            | 15.76       | 91.426            | 14.31     | 0. |
| 6  | 20.66            | 0.552          | 2.92            | 12.47       | 118.928           | 18.61     | 0. |
| 7  | 23.71            | 0.504          | 5.20            | 22.25       | 171.142           | 26.78     | 0. |
| 7  | 27.00            | 0.409          | 23.37           | 99.99       | 639.004           | 100.00    | 0. |

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METROHM LTD

Report date: 4/2/2019 12:35:24 PM  
Printed by: wet

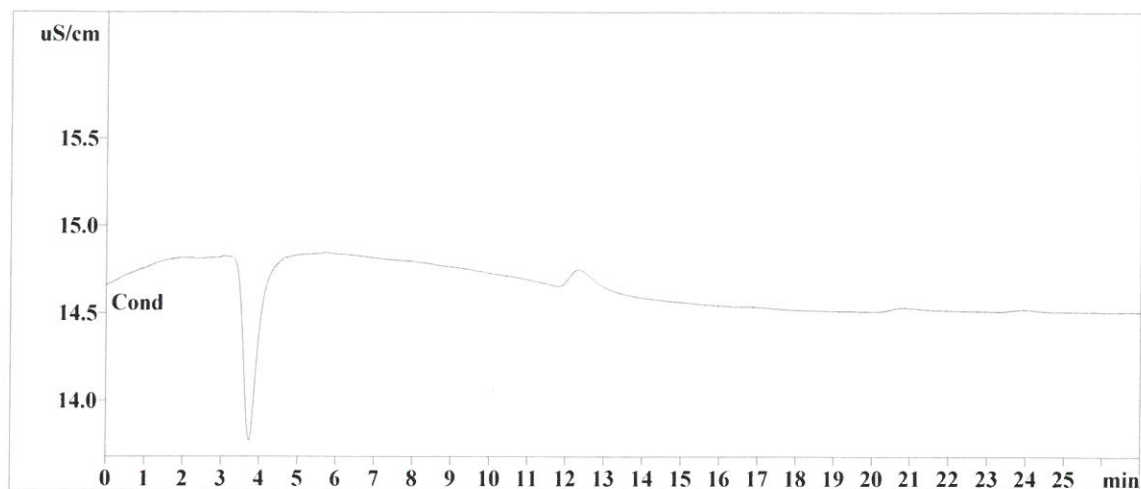
Ident: ICB  
Analysis from: 4/1/2019 6:44:59 PM  
File: \_2019-04-01\_

Last save: 4/2/2019 12:26:32 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66214

Last save: 4/1/2019 5:42:04 PM

SAMPLE:  
: AK/AP  
Vial number: 10  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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Report date: 4/9/2019 10:35:22 AM  
Printed by: wet

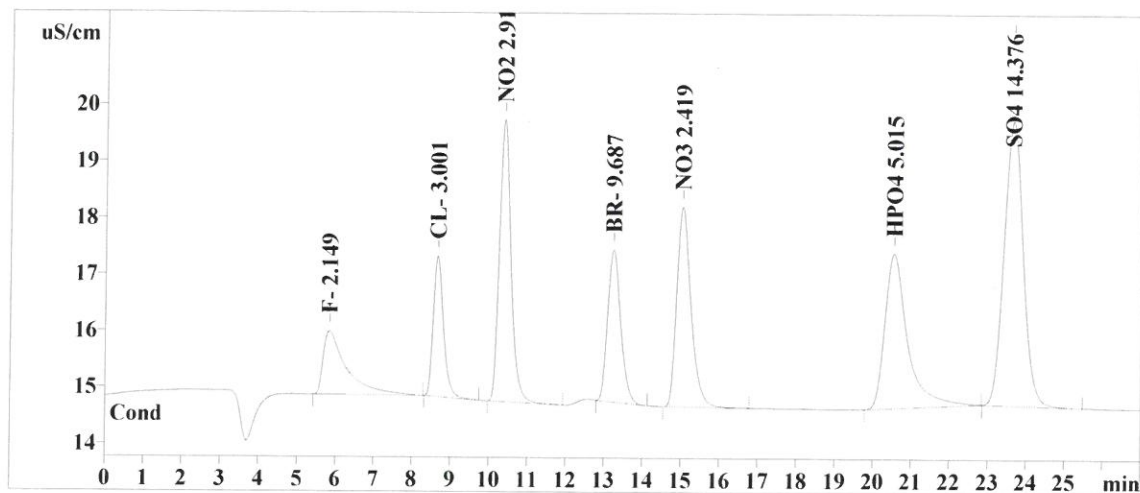
Ident: CCV  
Analysis from: 4/8/2019 8:16:26 AM  
File: \_2019-04-08\_

Last save: 4/8/2019 8:43:16 AM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66323

Last save: 4/4/2019 11:05:30 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.83             | 0.552          | 1.12            | 4.96        | 47.757            | 7.40      | 0. |
| 2  | 8.65             | 0.282          | 2.48            | 11.00       | 46.552            | 7.21      | 0. |
| 3  | 10.36            | 0.319          | 4.99            | 22.09       | 105.228           | 16.30     | 0. |
| 4  | 13.23            | 0.368          | 2.69            | 11.91       | 64.229            | 9.95      | 0. |
| 5  | 15.02            | 0.394          | 3.53            | 15.65       | 92.391            | 14.31     | 0. |
| 6  | 20.52            | 0.570          | 2.73            | 12.10       | 113.376           | 17.56     | 0. |
| 7  | 23.62            | 0.538          | 5.03            | 22.28       | 175.991           | 27.26     | 0. |
| 7  | 27.00            | 0.432          | 22.58           | 99.99       | 645.523           | 100.00    | 0. |

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Report date: 4/9/2019 10:35:37 AM  
Printed by: wet

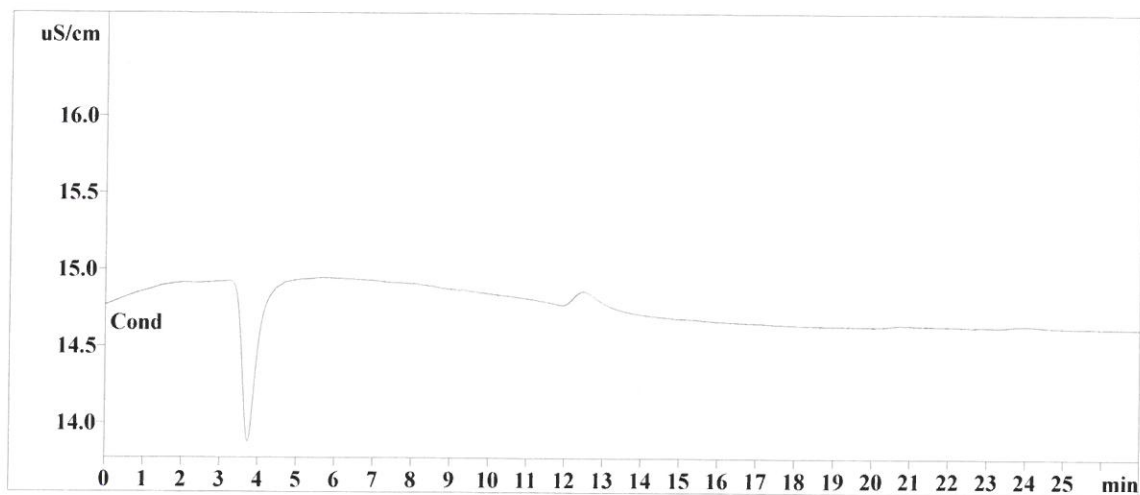
Ident: CCB  
Analysis from: 4/8/2019 8:52:17 AM  
File: \_2019-04-08\_

Last save: 4/9/2019 10:35:36 AM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66324

Last save: 4/4/2019 11:05:30 AM

SAMPLE:  
: AK/AP  
Vial number: 3  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
METROHM LTD

Report date: 4/9/2019 10:35:54 AM  
Printed by: wet

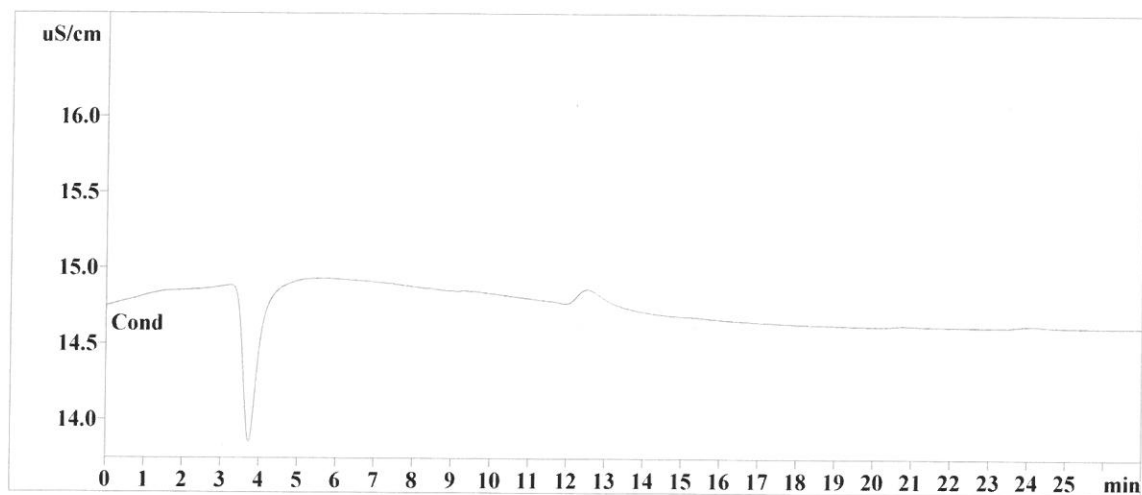
Ident: LB101953BLW  
Analysis from: 4/8/2019 9:22:12 AM  
File: \_2019-04-08\_

Last save: 4/9/2019 10:35:54 AM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66325

Last save: 4/4/2019 11:05:30 AM

SAMPLE:  
: AK/AP  
Vial number: 4  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
METROHM LTD

Report date: 4/9/2019 10:36:02 AM  
Printed by: wet

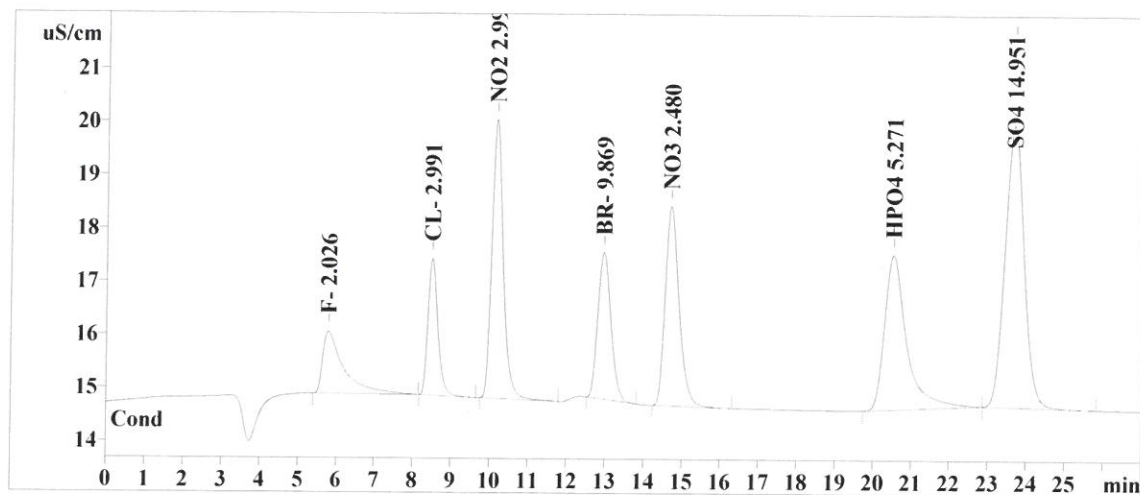
Ident: LB101953BSW  
Analysis from: 4/8/2019 11:10:44 AM  
File: \_2019-04-08\_

Last save: 4/9/2019 10:35:14 AM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66328

Last save: 4/4/2019 11:05:30 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.78             | 0.497          | 1.16            | 4.91        | 44.851            | 6.78      | 0. |
| 2  | 8.49             | 0.272          | 2.57            | 10.84       | 46.396            | 7.01      | 0. |
| 3  | 10.15            | 0.309          | 5.23            | 22.11       | 108.286           | 16.36     | 0. |
| 4  | 12.94            | 0.369          | 2.76            | 11.65       | 65.510            | 9.90      | 0. |
| 5  | 14.68            | 0.383          | 3.75            | 15.83       | 94.841            | 14.33     | 0. |
| 6  | 20.50            | 0.557          | 2.91            | 12.28       | 118.404           | 17.89     | 0. |
| 7  | 23.65            | 0.534          | 5.29            | 22.37       | 183.486           | 27.73     | 0. |
| 7  | 27.00            | 0.417          | 23.67           | 99.99       | 661.774           | 100.00    | 0. |

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METROHM LTD

Report date: 4/9/2019 10:36:14 AM  
Printed by: wet

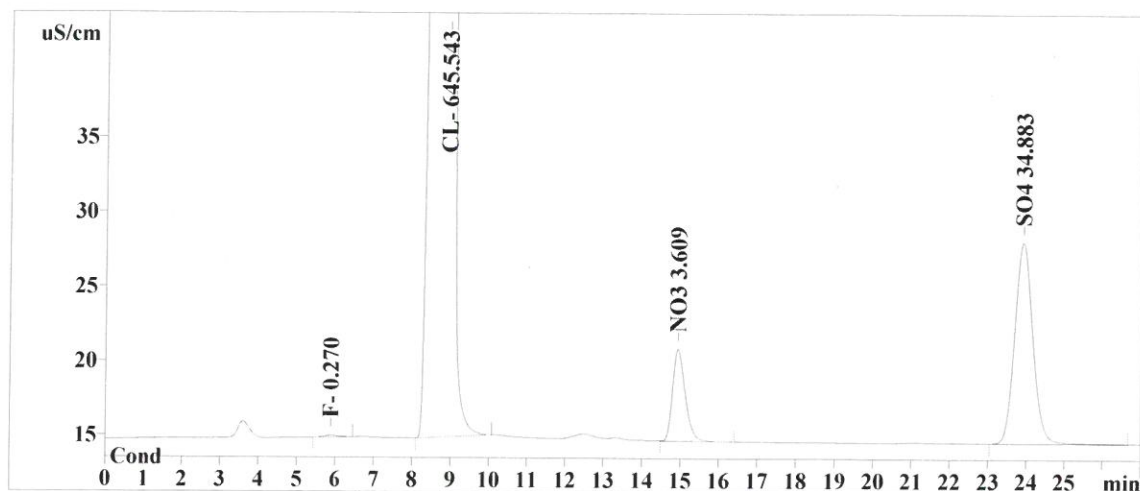
Ident: K2331-03  
Analysis from: 4/8/2019 11:42:09 AM  
File: \_2019-04-08\_

Last save: 4/8/2019 2:09:14 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66329

Last save: 4/4/2019 11:05:30 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.88             | 0.396          | 0.13            | 0.03        | 3.538             | 0.03      | 0. |
| 2  | 8.92             | 0.432          | 405.34          | 95.32       | 10475.166         | 94.69     | 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  | 14.93            | 0.347          | 6.15            | 1.45        | 140.408           | 1.27      | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 23.90            | 0.501          | 13.46           | 3.17        | 443.616           | 4.01      | 0. |
| 7  | 27.00            | 0.240          | 425.09          | 99.96       | 11062.728         | 100.00    | 0. |

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Report date: 4/9/2019 10:37:17 AM  
Printed by: wet

Ident: K2332-02  
Analysis from: 4/8/2019 12:12:04 PM  
File: \_2019-04-08\_

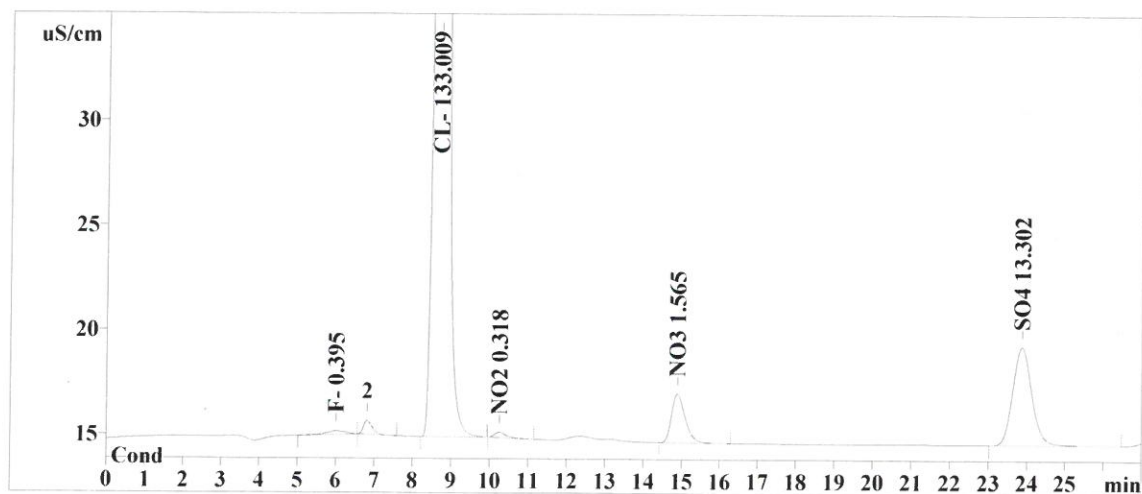
Last save: 4/8/2019 1:24:02 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66330

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 6.01             | 0.555          | 0.19            | 0.15        | 6.490             | 0.27      | 0. |
| 2  | 8.68             | 0.274          | 120.92          | 93.70       | 2156.623          | 89.88     | 0. |
| 3  | 10.26            | 0.317          | 0.26            | 0.20        | 5.448             | 0.23      | 0. |
| 4  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 5  | 14.88            | 0.379          | 2.33            | 1.80        | 57.932            | 2.41      | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 23.85            | 0.526          | 4.68            | 3.63        | 161.964           | 6.75      | 0. |
| 7  | 27.00            | 0.293          | 128.38          | 99.48       | 2388.457          | 99.54     | 0. |

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Report date: 4/9/2019 10:37:34 AM  
Printed by: wet

Ident: K2333-03  
Analysis from: 4/8/2019 12:41:59 PM  
File: \_2019-04-08\_

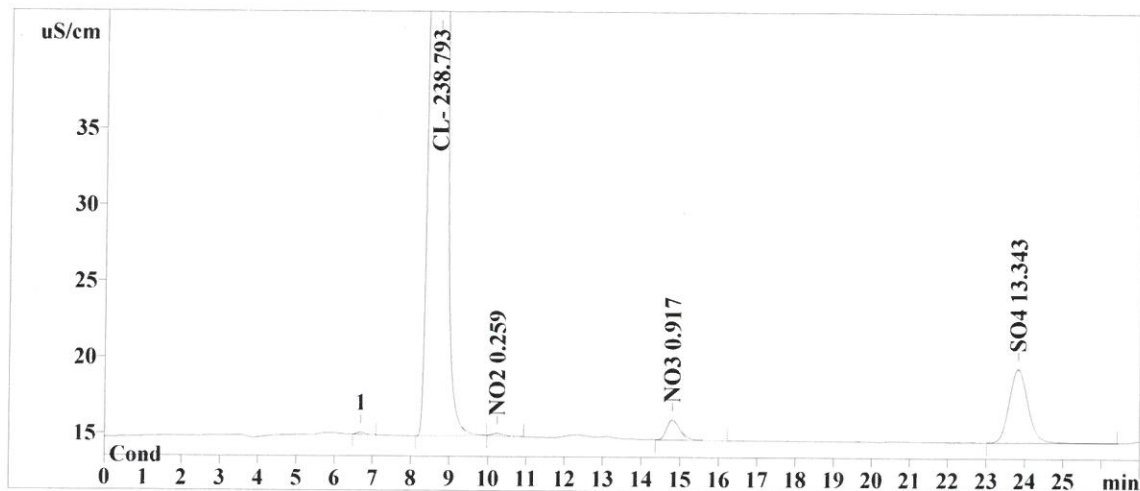
Last save: 4/8/2019 1:08:48 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66331

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

: AK/AP  
Vial number: 8  
Volume: 20.0 µL  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.69             | 0.306          | 198.18          | 96.85       | 3873.527          | 95.10     | 0. |
| 3  | 10.24            | 0.302          | 0.16            | 0.08        | 3.159             | 0.08      | 0. |
| 4  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 5  | 14.80            | 0.370          | 1.31            | 0.64        | 31.823            | 0.78      | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 23.81            | 0.513          | 4.82            | 2.35        | 162.506           | 3.99      | 0. |
| 7  | 27.00            | 0.213          | 204.47          | 99.92       | 4071.015          | 99.95     | 0. |

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Report date: 4/9/2019 10:40:13 AM  
 Printed by: wet

Ident: K2331-03DUP  
 Analysis from: 4/8/2019 1:11:54 PM  
 File: \_2019-04-08\_

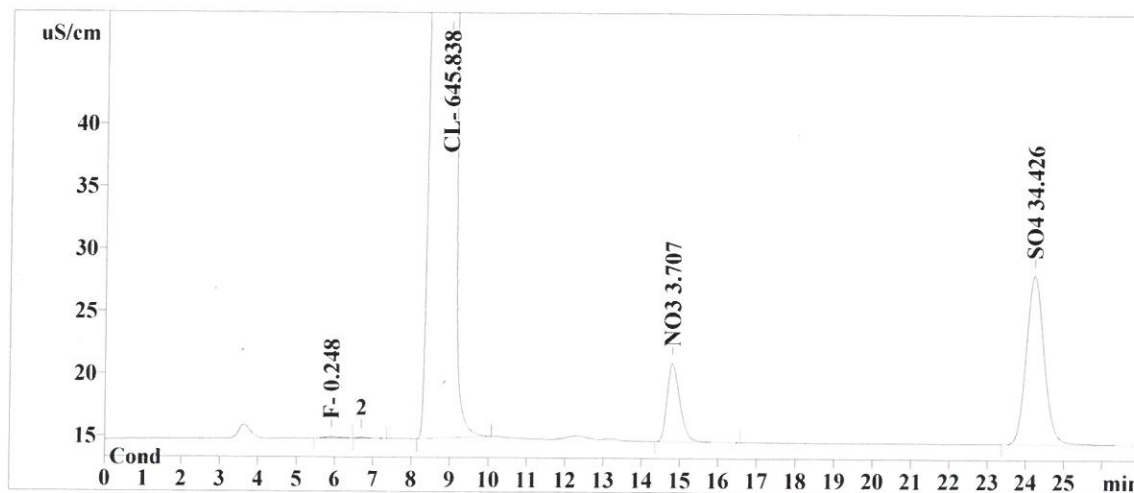
Last save: 4/9/2019 10:40:10 AM

Method: ANIONS 04-01-19.mtw  
 Run operator: wet  
 Analysis number: 66332

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

: AK/AP  
 Vial number: 10  
 Volume: 20.0 µL  
 Dilution: 1.00  
 Amount: 1.0000



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.91             | 0.420          | 0.11            | 0.03        | 3.031             | 0.03      | 0. |
| 2  | 8.97             | 0.431          | 406.04          | 95.30       | 10479.954         | 94.70     | 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  | 14.80            | 0.351          | 6.24            | 1.47        | 144.356           | 1.30      | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 24.21            | 0.492          | 13.49           | 3.17        | 437.658           | 3.95      | 0. |
| 7  | 27.00            | 0.242          | 425.88          | 99.96       | 11064.999         | 99.99     | 0. |

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Report date: 4/9/2019 10:39:14 AM  
Printed by: wet

Ident: K2331-03MS  
Analysis from: 4/8/2019 1:41:49 PM  
File: \_2019-04-08\_

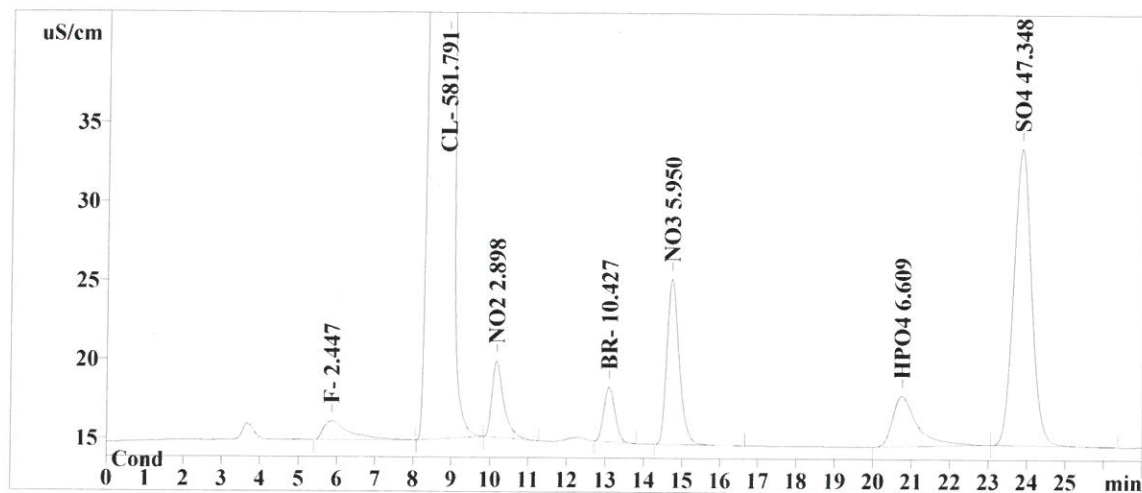
Last save: 4/8/2019 2:08:38 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66333

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.86             | 0.623          | 1.18            | 0.28        | 54.756            | 0.51      | 0. |
| 2  | 8.86             | 0.410          | 382.88          | 90.12       | 9440.458          | 88.60     | 0. |
| 3  | 10.16            | 0.310          | 4.84            | 1.14        | 104.651           | 0.98      | 0. |
| 4  | 13.09            | 0.313          | 3.46            | 0.81        | 69.440            | 0.65      | 0. |
| 5  | 14.72            | 0.340          | 10.45           | 2.46        | 234.819           | 2.20      | 0. |
| 6  | 20.74            | 0.612          | 3.18            | 0.75        | 144.636           | 1.36      | 0. |
| 7  | 23.83            | 0.493          | 18.78           | 4.42        | 606.297           | 5.69      | 0. |
| 7  | 27.00            | 0.443          | 424.77          | 99.98       | 10655.057         | 100.00    | 0. |

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METROHM LTD

Report date: 4/9/2019 10:39:24 AM  
Printed by: wet

Ident: K2331-03MSD  
Analysis from: 4/8/2019 2:11:44 PM  
File: \_2019-04-08\_

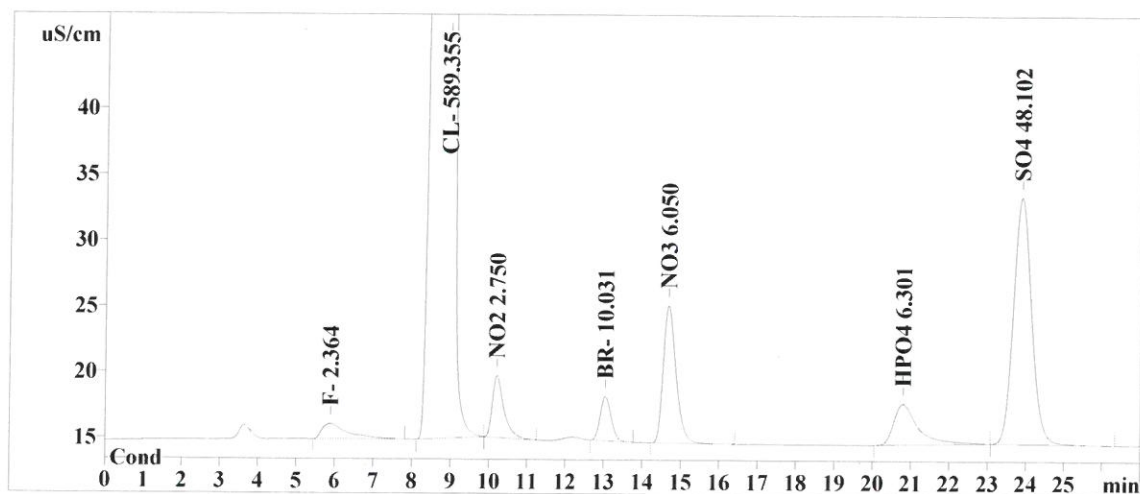
Last save: 4/8/2019 2:38:34 PM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66334

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

: AK/AP  
Vial number: 12  
Volume: 20.0 µL  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.89             | 0.619          | 1.16            | 0.27        | 52.813            | 0.49      | 0. |
| 2  | 8.92             | 0.413          | 384.94          | 90.25       | 9563.233          | 88.75     | 0. |
| 3  | 10.20            | 0.304          | 4.68            | 1.10        | 98.949            | 0.92      | 0. |
| 4  | 13.04            | 0.309          | 3.37            | 0.79        | 66.651            | 0.62      | 0. |
| 5  | 14.67            | 0.346          | 10.41           | 2.44        | 238.882           | 2.22      | 0. |
| 6  | 20.79            | 0.596          | 3.11            | 0.73        | 138.586           | 1.29      | 0. |
| 7  | 23.86            | 0.503          | 18.71           | 4.39        | 616.140           | 5.72      | 0. |
| 7  | 27.00            | 0.441          | 426.38          | 99.97       | 10775.255         | 100.00    | 0. |

This report has been created by IC Net  
METROHM LTD

Report date: 4/9/2019 10:41:23 AM  
 Printed by: wet

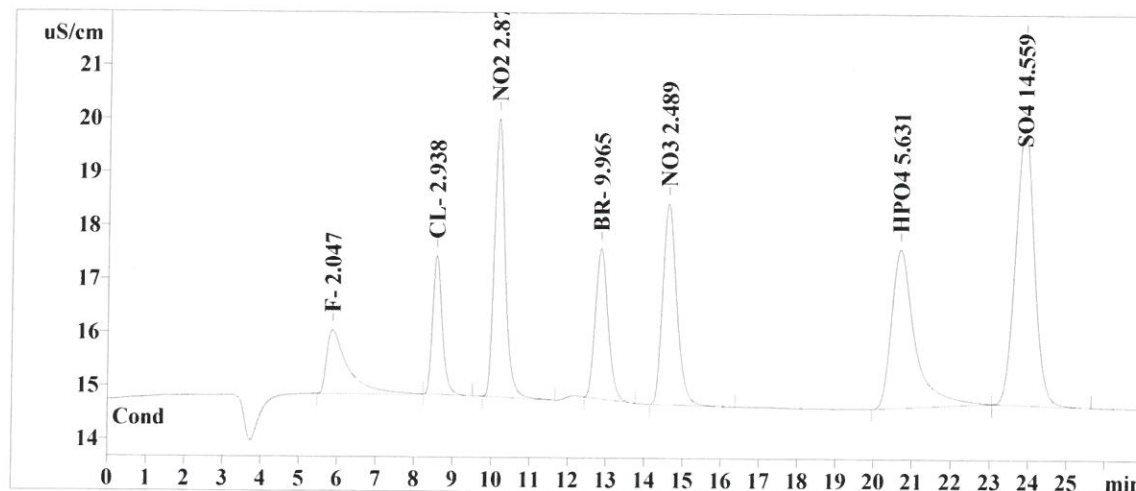
Ident: CCV  
 Analysis from: 4/8/2019 2:41:39 PM  
 File: \_2019-04-08\_

Last save: 4/8/2019 3:08:28 PM

Method: ANIONS 04-01-19.mtw  
 Run operator: wet  
 Analysis number: 66335

Last save: 4/4/2019 11:05:30 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.86             | 0.505          | 1.19            | 5.01        | 45.357            | 6.88      | 0. |
| 2  | 8.55             | 0.264          | 2.59            | 10.94       | 45.529            | 6.90      | 0. |
| 3  | 10.15            | 0.297          | 5.21            | 21.96       | 103.587           | 15.70     | 0. |
| 4  | 12.84            | 0.365          | 2.81            | 11.86       | 66.188            | 10.03     | 0. |
| 5  | 14.60            | 0.384          | 3.76            | 15.84       | 95.215            | 14.43     | 0. |
| 6  | 20.67            | 0.576          | 2.96            | 12.49       | 125.452           | 19.02     | 0. |
| 7  | 23.85            | 0.528          | 5.19            | 21.90       | 178.371           | 27.04     | 0. |
| 7  | 27.00            | 0.417          | 23.71           | 99.99       | 659.700           | 100.00    | 0. |

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 METROHM LTD

Report date: 4/9/2019 10:41:52 AM  
Printed by: wet

Ident: CCB  
Analysis from: 4/8/2019 3:57:17 PM  
File: \_2019-04-08\_

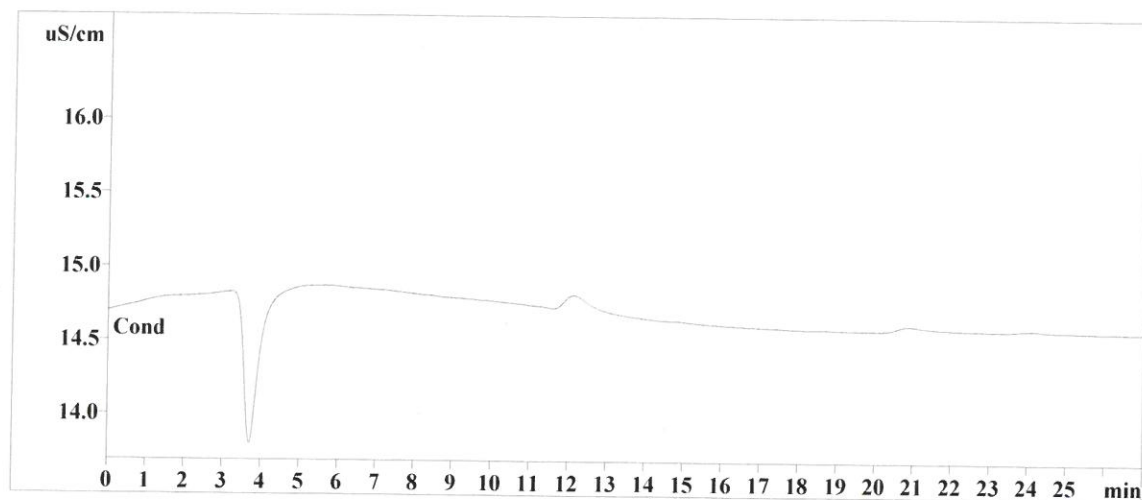
Last save: 4/9/2019 10:41:52 AM

Method: ANIONS 04-01-19.mtw  
Run operator: wet  
Analysis number: 66337

Last save: 4/4/2019 11:05:30 AM

SAMPLE:

: AK/AP  
Vial number: 3  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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