

Clear table

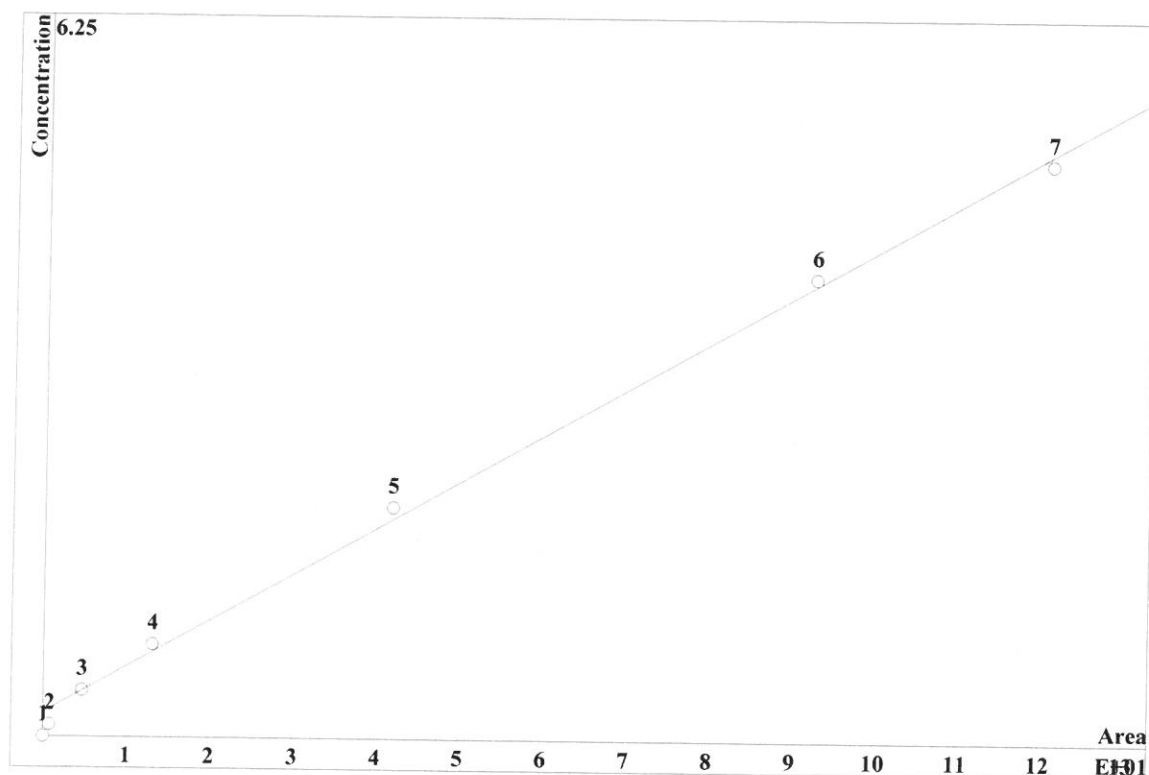
IC-1 300.0  
10-9-18 AK

| ident        | concentrati<br>on 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<br>wt/<br>Final | Analyst |
|--------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-------------|---------------|-------------------------|---------|
| STD1         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-10-02_ | 10/2/18 11:14 |                         | AK/AP   |
| STD2         | 0.2400               | 0.2380                | 0.2610                | 0.8870                | 0.2210                | 0.4800                 | 1.3340                | 2018-10-02_ | 10/2/18 11:45 |                         | AK/AP   |
| STD3         | 0.3970               | 0.6290                | 0.6200                | 2.1290                | 0.5320                | 0.7970                 | 3.2080                | 2018-10-02_ | 10/2/18 12:15 |                         | AK/AP   |
| STD4         | 0.7380               | 1.2060                | 1.1810                | 3.9630                | 0.9950                | 1.9860                 | 6.0180                | 2018-10-02_ | 10/2/18 12:46 |                         | AK/AP   |
| STD5         | 1.8980               | 2.8470                | 2.8320                | 9.4470                | 2.3540                | 5.0280                 | 14.1110               | 2018-10-02_ | 10/2/18 13:17 |                         | AK/AP   |
| STD6         | 3.9410               | 5.9060                | 5.9770                | 19.5220               | 4.8940                | 9.8360                 | 29.1410               | 2018-10-02_ | 10/2/18 13:48 |                         | AK/AP   |
| STD7         | 5.0860               | 7.6240                | 7.5780                | 25.5520               | 6.3800                | 12.6230                | 38.4370               | 2018-10-02_ | 10/2/18 14:19 |                         | AK/AP   |
| ICV          | 1.9840               | 2.9590                | 2.9170                | 9.6000                | 2.4170                | 5.4820                 | 14.5430               | 2018-10-02_ | 10/2/18 16:20 |                         | AK/AP   |
| ICB          | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-10-02_ | 10/2/18 16:50 |                         | AK/AP   |
| CCV          | 1.9540               | 3.0790                | 2.9910                | 9.9850                | 2.5520                | 6.3060                 | 15.0090               | 2018-10-05_ | 10/5/18 10:27 |                         | AK/AP   |
| CCB          | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 10:57 |                         | AK/AP   |
| LB98461BLW   | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 11:27 |                         | AK/AP   |
| LB98461BSW   | 2.0710               | 2.9890                | 2.9820                | 9.8320                | 2.5030                | 6.6660                 | 14.9520               | 2018-10-05_ | 10/5/18 11:56 |                         | AK/AP   |
| J5301-01     | 0.0000               | 0.0000                | 0.2340                | 0.0000                | 0.4380                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 12:26 |                         | AK/AP   |
| J5301-02     | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.2460                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 12:56 |                         | AK/AP   |
| J5301-03     | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.3600                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 13:26 |                         | AK/AP   |
| J5301-03 DUP | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.3610                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 13:56 |                         | AK/AP   |
| J5301-03MS   | 1.9200               | 2.9550                | 2.8400                | 9.4490                | 2.6340                | 6.0670                 | 15.2530               | 2018-10-05_ | 10/5/18 14:26 |                         | AK/AP   |
| J5301-03MSD  | 1.7280               | 2.8790                | 2.8570                | 9.4670                | 2.6750                | 6.1770                 | 14.8120               | 2018-10-05_ | 10/5/18 14:56 |                         | AK/AP   |
| CCV          | 2.0020               | 3.0240                | 2.9880                | 9.9550                | 2.5300                | 6.3460                 | 14.9970               | 2018-10-05_ | 10/5/18 15:26 |                         | AK/AP   |
| CCB          | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-10-05_ | 10/5/18 15:56 |                         | AK/AP   |

# CALIBRATION OF COMPONENT F-

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 0.806081 \cdot A + 4.19166$   
 RSD: 5.156 %  
 Correlation coefficient: 0.998915

IC-1 Cal  
 10-02-18 AD



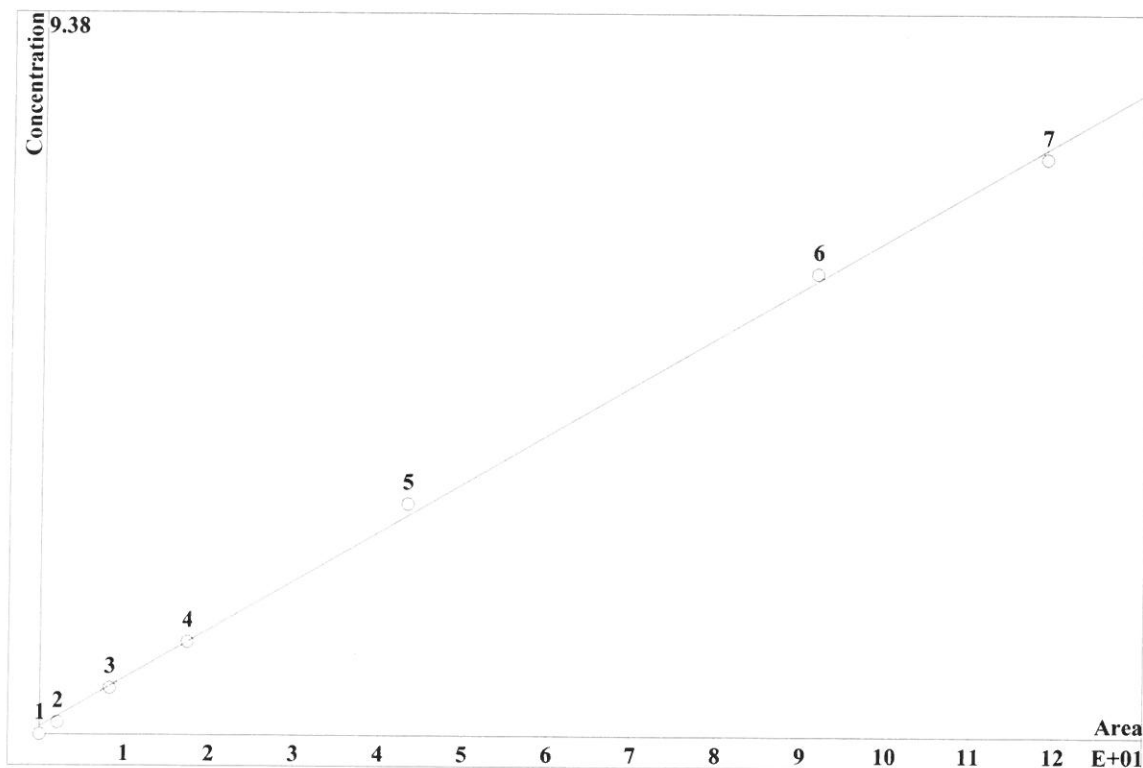
K3 = 0      K2 = 0      K1 = 0.806081      K0 = 4.19166

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     | 0.02044 | 0.7508 | 0.1   | 20      | 5.913     |      | Yes  |
| 3     | 0.1629  | 4.64   | 0.4   | 20      | 5.913     |      | Yes  |
| 4     | 0.4264  | 13.11  | 0.8   | 20      | 5.913     |      | Yes  |
| 5     | 1.172   | 41.9   | 2     | 20      | 5.913     |      | Yes  |
| 6     | 2.593   | 92.58  | 4     | 20      | 5.913     |      | Yes  |
| 7     | 3.466   | 121    | 5     | 20      | 5.913     |      | Yes  |

CALIBRATION OF COMPONENT CL-

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 1.26658 \cdot A + 2.0519$   
 RSD: 3.854 %  
 Correlation coefficient: 0.999393



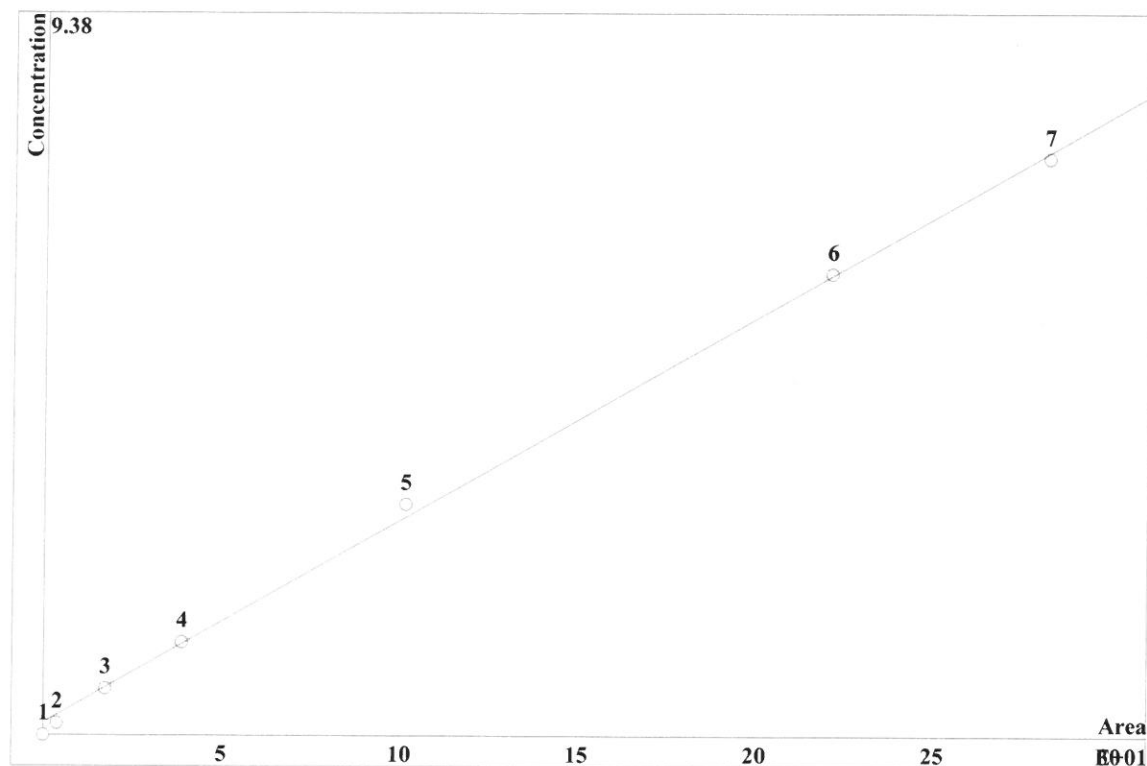
K3 = 0      K2 = 0      K1 = 1.26658      K0 = 2.0519

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     | 0.1165 | 2.134 | 0.15  | 20      | 8.858     | Yes  |      |
| 3     | 0.461  | 8.319 | 0.6   | 20      | 8.858     | Yes  |      |
| 4     | 0.9654 | 17.42 | 1.2   | 20      | 8.858     | Yes  |      |
| 5     | 2.437  | 43.33 | 3     | 20      | 8.858     | Yes  |      |
| 6     | 5.175  | 91.64 | 6     | 20      | 8.858     | Yes  |      |
| 7     | 6.75   | 118.8 | 7.5   | 20      | 8.858     | Yes  |      |

CALIBRATION OF COMPONENT NO2

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 0.525663 \cdot A + 3.21455$   
 RSD: 3.566 %  
 Correlation coefficient: 0.999481



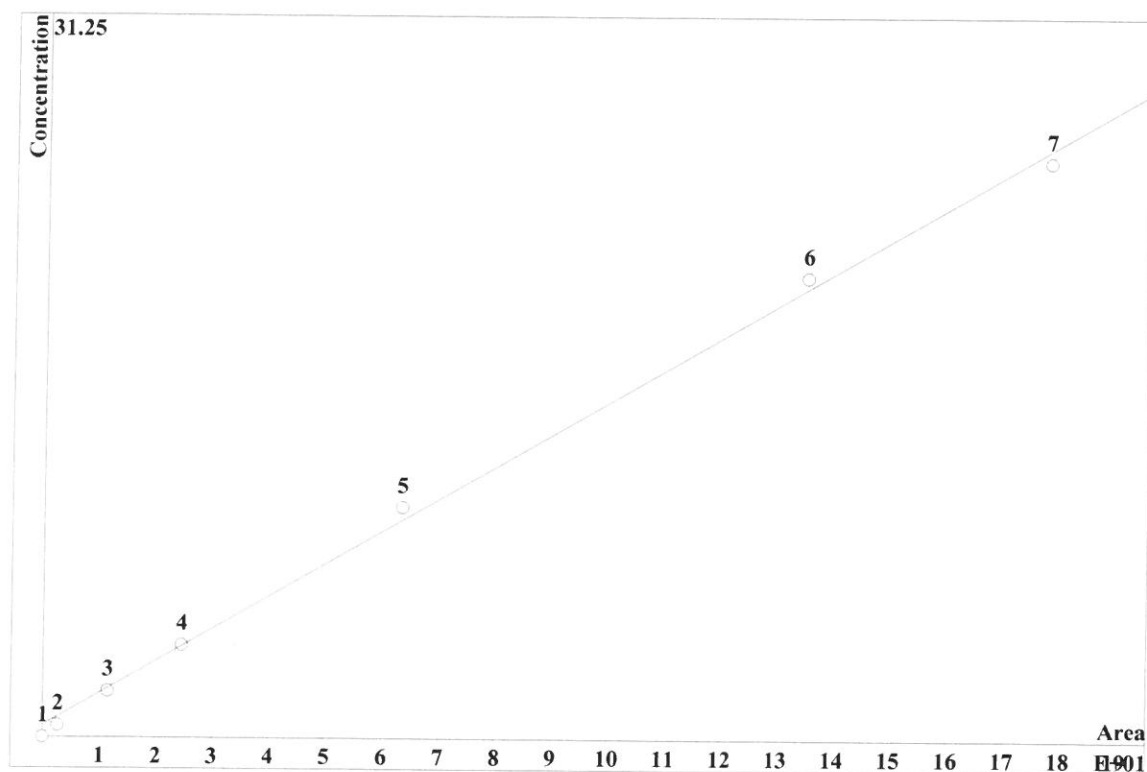
K3 = 0      K2 = 0      K1 = 0.525663      K0 = 3.21455

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     | 0.1743 | 3.831 | 0.15  | 20      | 10.65     |      | Yes  |
| 3     | 0.8441 | 17.47 | 0.6   | 20      | 10.65     |      | Yes  |
| 4     | 1.903  | 38.83 | 1.2   | 20      | 10.65     |      | Yes  |
| 5     | 5.027  | 101.6 | 3     | 20      | 10.65     |      | Yes  |
| 6     | 10.67  | 221.3 | 6     | 20      | 10.65     |      | Yes  |
| 7     | 13.79  | 282.2 | 7.5   | 20      | 10.65     |      | Yes  |

CALIBRATION OF COMPONENT BR-

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 2.81596 \cdot A + 10.3386$   
 RSD: 4.896 %  
 Correlation coefficient: 0.999021



K3 = 0      K2 = 0      K1 = 2.81596      K0 = 10.3386

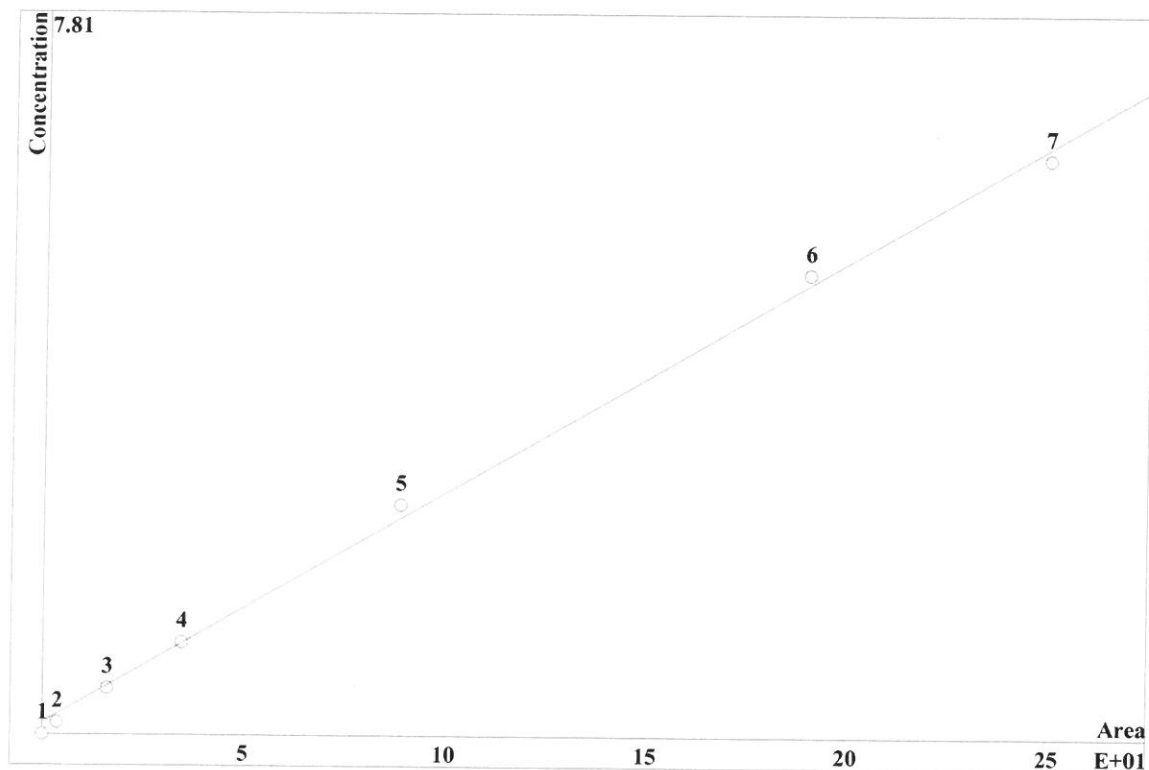
Base: Area  
 Ref.channel: Cond  
 ISTD:  
 Formula: Linear  
 Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |     |
|-------|--------|-------|-------|---------|-----------|------|------|-----|
| 1     | 0      | 0     | 0     | 0       | 0         |      |      | No  |
| 2     | 0.12   | 2.631 | 0.5   | 20      | 13.72     |      |      | Yes |
| 3     | 0.5116 | 11.45 | 2     | 20      | 13.72     |      |      | Yes |
| 4     | 1.091  | 24.48 | 4     | 20      | 13.72     |      |      | Yes |
| 5     | 2.804  | 63.42 | 10    | 20      | 13.72     |      |      | Yes |
| 6     | 5.819  | 135   | 20    | 20      | 13.72     |      |      | Yes |
| 7     | 7.48   | 177.8 | 25    | 20      | 13.72     |      |      | Yes |

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CALIBRATION OF COMPONENT NO3

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 0.500602 \cdot A + 2.61904$   
 RSD: 4.767 %  
 Correlation coefficient: 0.999072



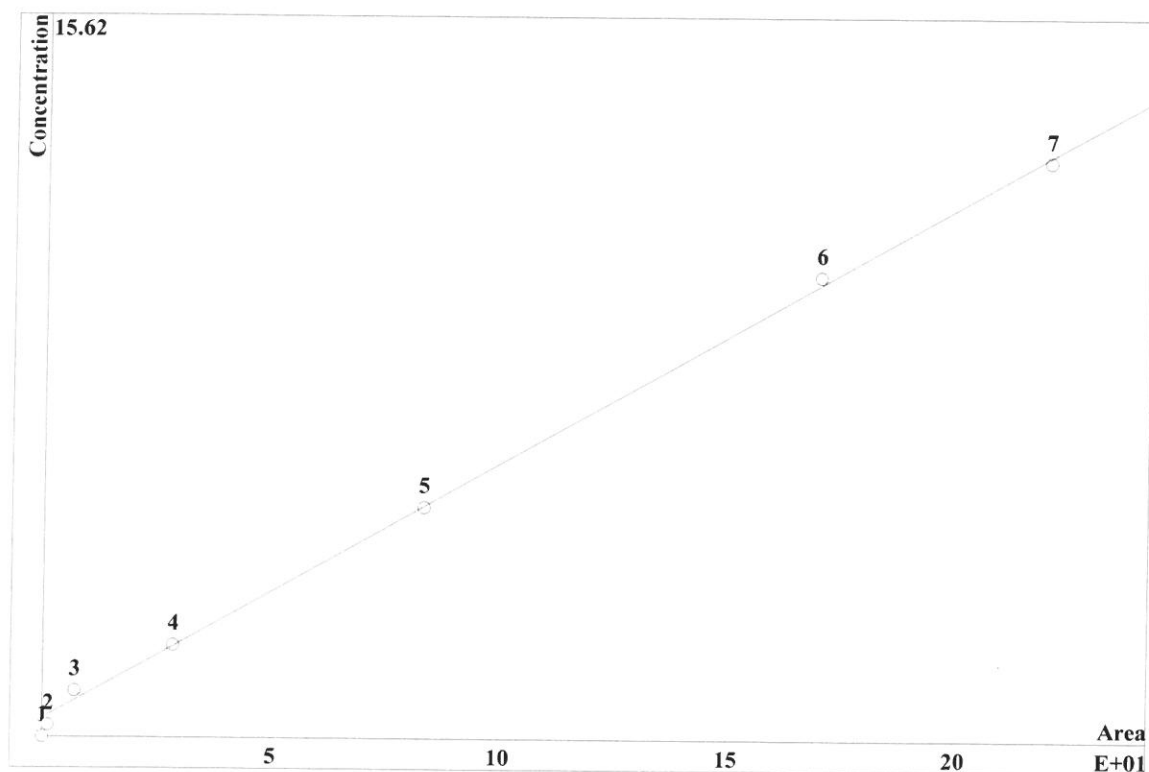
K3 = 0      K2 = 0      K1 = 0.500602      K0 = 2.61904

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     | 0.1336 | 3.591 | 0.125 | 20      | 15.65     |      |      | Yes |
| 3     | 0.6171 | 16    | 0.5   | 20      | 15.65     |      |      | Yes |
| 4     | 1.342  | 34.51 | 1     | 20      | 15.65     |      |      | Yes |
| 5     | 3.499  | 88.81 | 2.5   | 20      | 15.65     |      |      | Yes |
| 6     | 7.552  | 190.3 | 5     | 20      | 15.65     |      |      | Yes |
| 7     | 9.978  | 249.7 | 6.25  | 20      | 15.65     |      |      | Yes |

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 1.10865 \cdot A + 8.21686$   
 RSD: 3.612 %  
 Correlation coefficient: 0.999467



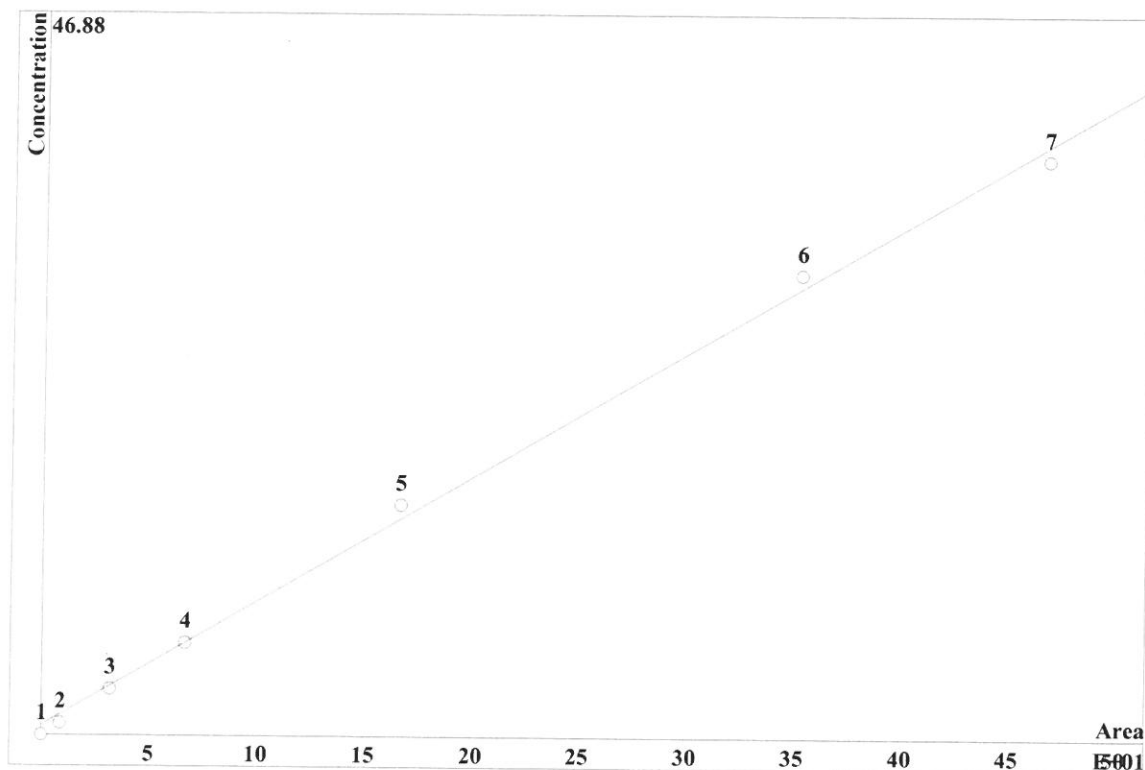
K3 = 0      K2 = 0      K1 = 1.10865      K0 = 8.21686

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     | 0.0271 | 1.246 | 0.25  | 20      | 21.48     |      |      | Yes |
| 3     | 0.1653 | 6.973 | 1     | 20      | 21.48     |      |      | Yes |
| 4     | 0.6568 | 28.41 | 2     | 20      | 21.48     |      |      | Yes |
| 5     | 1.989  | 83.3  | 5     | 20      | 21.48     |      |      | Yes |
| 6     | 4.215  | 170   | 10    | 20      | 21.48     |      |      | Yes |
| 7     | 5.509  | 220.3 | 12.5  | 20      | 21.48     |      |      | Yes |

CALIBRATION OF COMPONENT SO4

Method: ANIONS 10-02-18.mtw  
 Equation:  $Q = 1.61663 \cdot A + 12.6383$   
 RSD: 5.432 %  
 Correlation coefficient: 0.998795



K3 = 0      K2 = 0      K1 = 1.61663      K0 = 12.6383

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     | 0.232  | 8.688 | 0.75  | 20      | 25.17     |      | Yes  |
| 3     | 0.8851 | 31.87 | 3     | 20      | 25.17     |      | Yes  |
| 4     | 1.823  | 66.64 | 6     | 20      | 25.17     |      | Yes  |
| 5     | 4.635  | 166.8 | 15    | 20      | 25.17     |      | Yes  |
| 6     | 9.931  | 352.7 | 30    | 20      | 25.17     |      | Yes  |
| 7     | 13.05  | 467.7 | 37.5  | 20      | 25.17     |      | Yes  |



Report date: 10/3/2018 2:06:11 PM  
Printed by: wet

Ident: STD1  
Analysis from: 10/2/2018 11:14:05 AM  
File: \_2018-10-02\_

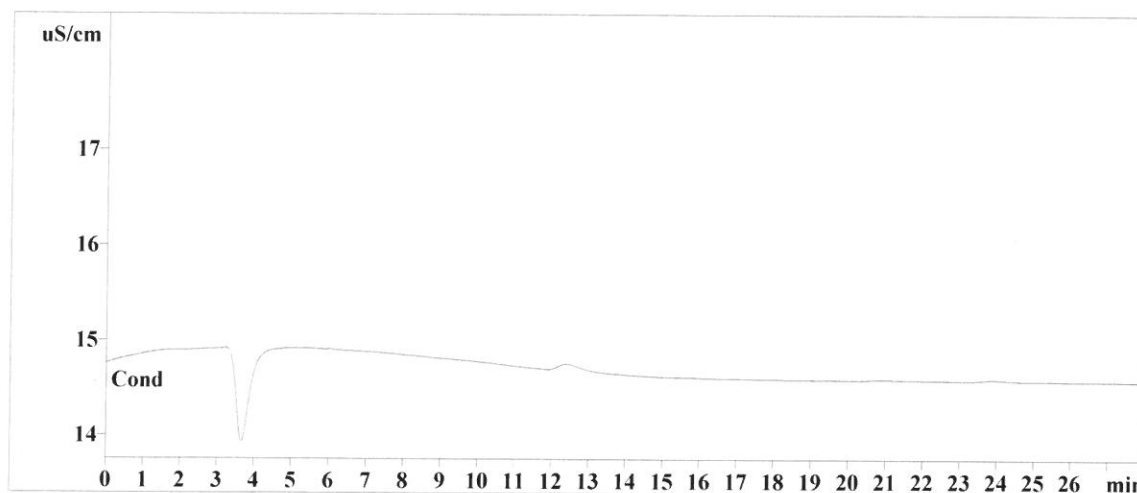
Last save: 10/2/2018 2:47:40 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64281

Last save: 10/2/2018 10:20:54 AM

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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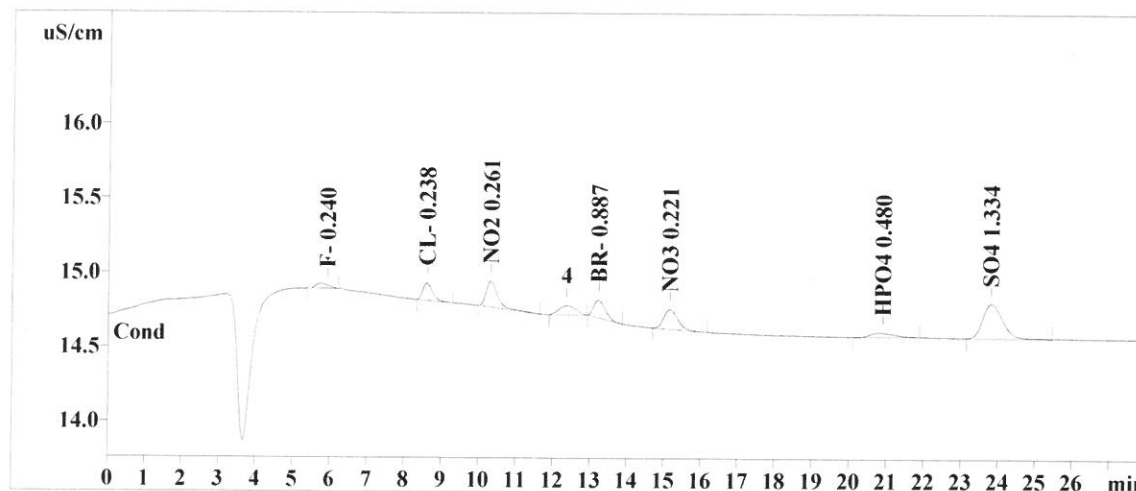
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Printed by: wet

Ident: STD2  
Analysis from: 10/2/2018 11:45:00 AM  
File: \_2018-10-02\_  
Manual peaks!  
Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64282

Last save: 10/2/2018 2:47:40 PM

Last save: 10/2/2018 10:20:54 AM

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  | 5.93             | 0.472          | 0.02            | 2.33        | 0.751             | 3.02      | 0. |
| 2  | 8.61             | 0.279          | 0.12            | 13.05       | 2.134             | 8.58      | 0. |
| 3  | 10.32            | 0.316          | 0.17            | 19.57       | 3.831             | 15.40     | 0. |
| 4  | 13.23            | 0.348          | 0.12            | 13.46       | 2.631             | 10.57     | 0. |
| 5  | 15.15            | 0.414          | 0.13            | 15.00       | 3.591             | 14.43     | 0. |
| 6  | 20.90            | 0.710          | 0.03            | 3.07        | 1.246             | 5.01      | 0. |
| 7  | 23.81            | 0.575          | 0.23            | 26.07       | 8.688             | 34.92     | 0. |
| 7  | 28.00            | 0.445          | 0.82            | 92.57       | 22.872            | 91.92     | 0. |

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Report date: 10/3/2018 2:06:34 PM  
Printed by: wet

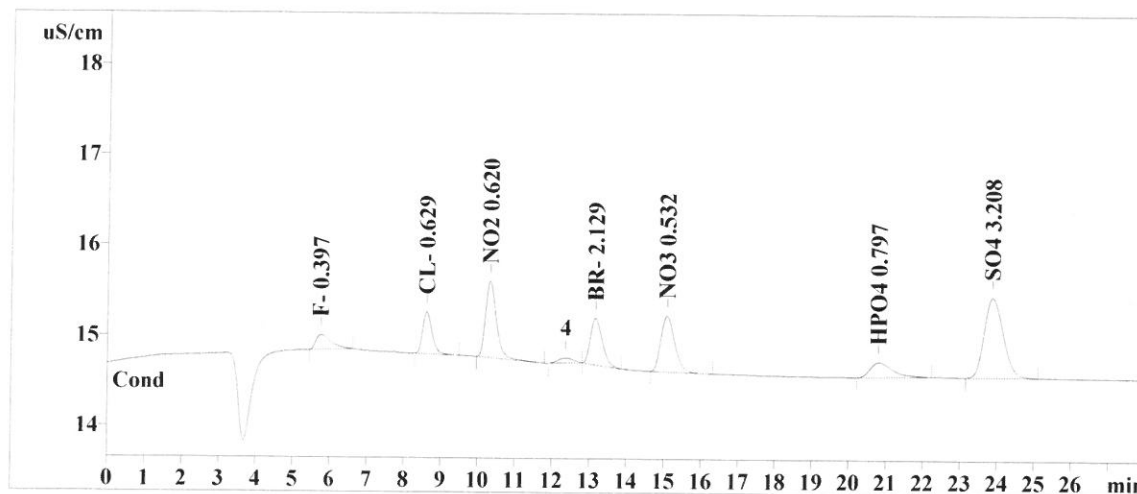
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Analysis from: 10/2/2018 12:15:55 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 2:47:40 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64283

Last save: 10/2/2018 10:20:54 AM

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  | 5.75             | 0.426          | 0.16            | 4.37        | 4.640             | 4.72      | 0. |
| 2  | 8.60             | 0.275          | 0.46            | 12.45       | 8.319             | 8.46      | 0. |
| 3  | 10.32            | 0.309          | 0.84            | 22.80       | 17.474            | 17.78     | 0. |
| 4  | 13.16            | 0.350          | 0.51            | 13.81       | 11.453            | 11.65     | 0. |
| 5  | 15.07            | 0.400          | 0.62            | 16.65       | 16.003            | 16.28     | 0. |
| 6  | 20.81            | 0.623          | 0.16            | 4.44        | 6.973             | 7.09      | 0. |
| 7  | 23.87            | 0.563          | 0.88            | 23.87       | 31.875            | 32.43     | 0. |
| 7  | 28.00            | 0.421          | 3.64            | 98.39       | 96.736            | 98.41     | 0. |

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Report date: 10/3/2018 2:06:43 PM  
Printed by: wet

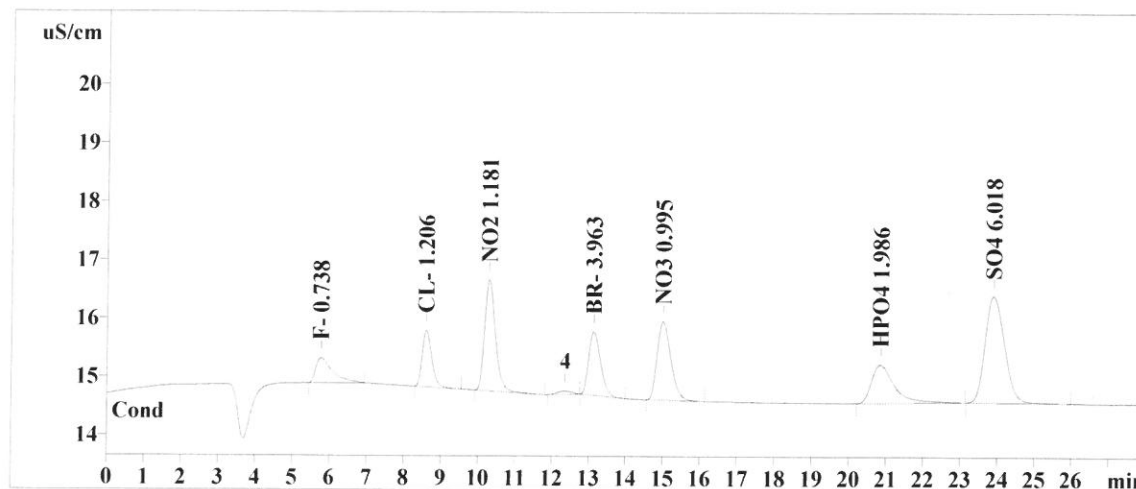
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Analysis from: 10/2/2018 12:46:50 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 2:47:40 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64284

Last save: 10/2/2018 10:20:54 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  | 5.77             | 0.437          | 0.43            | 5.15        | 13.109            | 5.83      | 0. |
| 2  | 8.60             | 0.276          | 0.96            | 11.66       | 17.425            | 7.74      | 0. |
| 3  | 10.29            | 0.309          | 1.90            | 23.02       | 38.829            | 17.26     | 0. |
| 4  | 13.13            | 0.351          | 1.09            | 13.19       | 24.479            | 10.88     | 0. |
| 5  | 15.00            | 0.396          | 1.34            | 16.23       | 34.507            | 15.34     | 0. |
| 6  | 20.84            | 0.607          | 0.66            | 7.94        | 28.410            | 12.63     | 0. |
| 7  | 23.89            | 0.569          | 1.82            | 22.05       | 66.636            | 29.62     | 0. |
| 7  | 28.00            | 0.421          | 8.20            | 99.25       | 223.395           | 99.29     | 0. |

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Report date: 10/3/2018 2:06:49 PM  
Printed by: wet

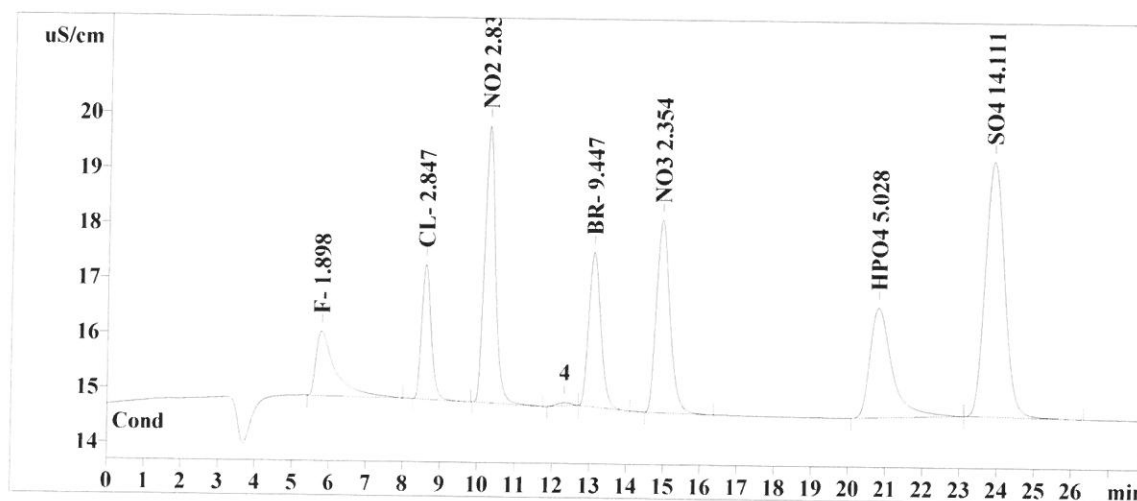
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Analysis from: 10/2/2018 1:17:44 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 2:47:40 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64285

Last save: 10/2/2018 10:20:54 AM

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  | 5.77             | 0.459          | 1.17            | 5.42        | 41.898            | 7.09      | 0. |
| 2  | 8.58             | 0.272          | 2.44            | 11.27       | 43.333            | 7.34      | 0. |
| 3  | 10.26            | 0.306          | 5.03            | 23.25       | 101.626           | 17.20     | 0. |
| 4  | 13.09            | 0.352          | 2.80            | 12.97       | 63.421            | 10.74     | 0. |
| 5  | 14.93            | 0.388          | 3.50            | 16.18       | 88.808            | 15.03     | 0. |
| 6  | 20.78            | 0.592          | 1.99            | 9.20        | 83.297            | 14.10     | 0. |
| 7  | 23.86            | 0.559          | 4.63            | 21.43       | 166.758           | 28.23     | 0. |
| 7  | 28.00            | 0.418          | 21.56           | 99.71       | 589.142           | 99.73     | 0. |

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Report date: 10/3/2018 2:06:57 PM  
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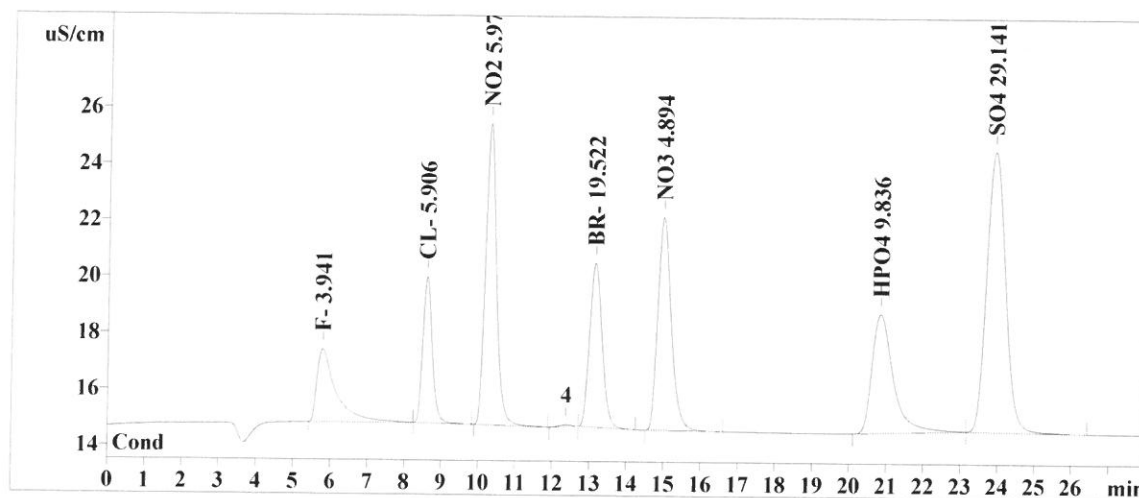
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Analysis from: 10/2/2018 1:48:39 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 2:47:40 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64286

Last save: 10/2/2018 10:20:54 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  | 5.77             | 0.465          | 2.59            | 5.63        | 92.584            | 7.38      | 0. |
| 2  | 8.58             | 0.268          | 5.17            | 11.24       | 91.641            | 7.30      | 0. |
| 3  | 10.28            | 0.315          | 10.67           | 23.19       | 221.305           | 17.63     | 0. |
| 4  | 13.13            | 0.360          | 5.82            | 12.65       | 134.978           | 10.76     | 0. |
| 5  | 14.96            | 0.383          | 7.55            | 16.41       | 190.300           | 15.16     | 0. |
| 6  | 20.82            | 0.578          | 4.22            | 9.16        | 170.023           | 13.55     | 0. |
| 7  | 23.89            | 0.551          | 9.93            | 21.58       | 352.700           | 28.10     | 0. |
| 7  | 28.00            | 0.417          | 45.95           | 99.86       | 1253.530          | 99.88     | 0. |

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Report date: 10/3/2018 2:07:05 PM  
Printed by: wet

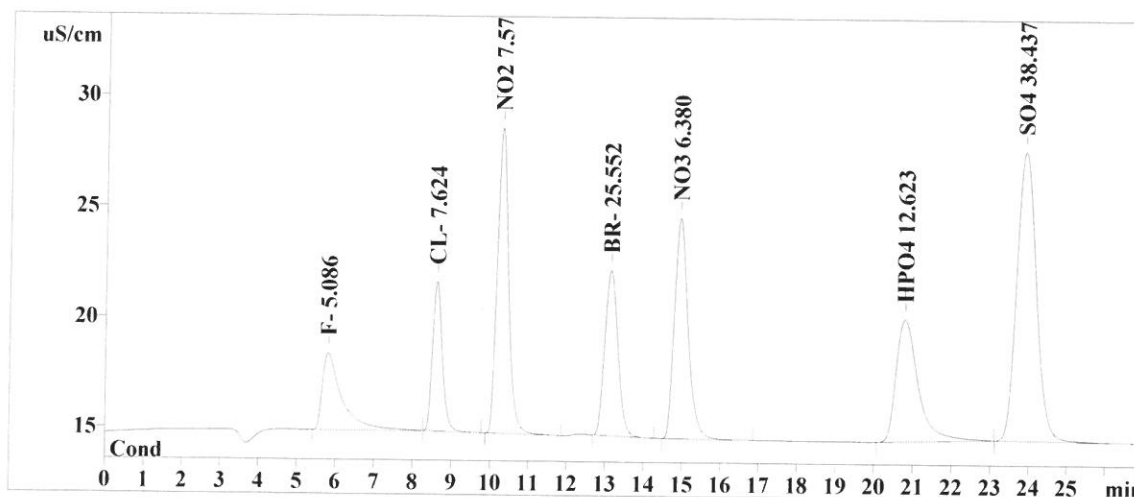
Ident: STD7  
Analysis from: 10/2/2018 2:19:34 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 2:47:44 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64287

Last save: 10/2/2018 10:20:54 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  | 5.80             | 0.461          | 3.47            | 5.77        | 120.998           | 7.39      | 0. |
| 2  | 8.60             | 0.268          | 6.75            | 11.25       | 118.764           | 7.25      | 0. |
| 3  | 10.27            | 0.310          | 13.79           | 22.97       | 282.213           | 17.23     | 0. |
| 4  | 13.12            | 0.372          | 7.48            | 12.46       | 177.805           | 10.86     | 0. |
| 5  | 14.92            | 0.380          | 9.98            | 16.62       | 249.662           | 15.25     | 0. |
| 6  | 20.78            | 0.577          | 5.51            | 9.18        | 220.309           | 13.45     | 0. |
| 7  | 23.87            | 0.557          | 13.05           | 21.74       | 467.702           | 28.56     | 0. |
| 7  | 27.00            | 0.418          | 60.02           | 100.00      | 1637.452          | 100.00    | 0. |

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Report date: 10/3/2018 2:07:14 PM  
Printed by: wet

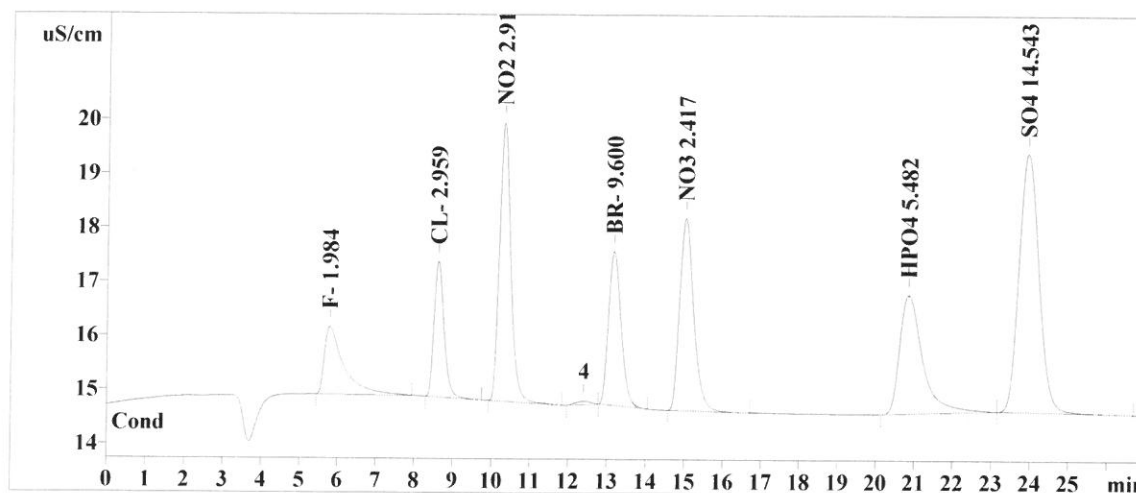
Ident: ICV  
Analysis from: 10/2/2018 4:20:43 PM  
File: \_2018-10-02\_

Last save: 10/2/2018 4:47:32 PM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64290

Last save: 10/2/2018 2:47:48 PM

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  | 5.79             | 0.463          | 1.25            | 5.58        | 44.029            | 7.16      | 0. |
| 2  | 8.60             | 0.274          | 2.50            | 11.21       | 45.104            | 7.33      | 0. |
| 3  | 10.30            | 0.308          | 5.15            | 23.06       | 104.859           | 17.05     | 0. |
| 4  | 13.16            | 0.353          | 2.85            | 12.74       | 64.511            | 10.49     | 0. |
| 5  | 15.01            | 0.392          | 3.56            | 15.92       | 91.342            | 14.85     | 0. |
| 6  | 20.84            | 0.591          | 2.19            | 9.82        | 91.483            | 14.87     | 0. |
| 7  | 23.91            | 0.561          | 4.78            | 21.38       | 172.097           | 27.98     | 0. |
| 7  | 27.00            | 0.420          | 22.27           | 99.71       | 613.424           | 99.73     | 0. |

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Report date: 10/3/2018 2:07:23 PM  
Printed by: wet

Ident: ICB  
Analysis from: 10/2/2018 4:50:38 PM  
File: -2018-10-02

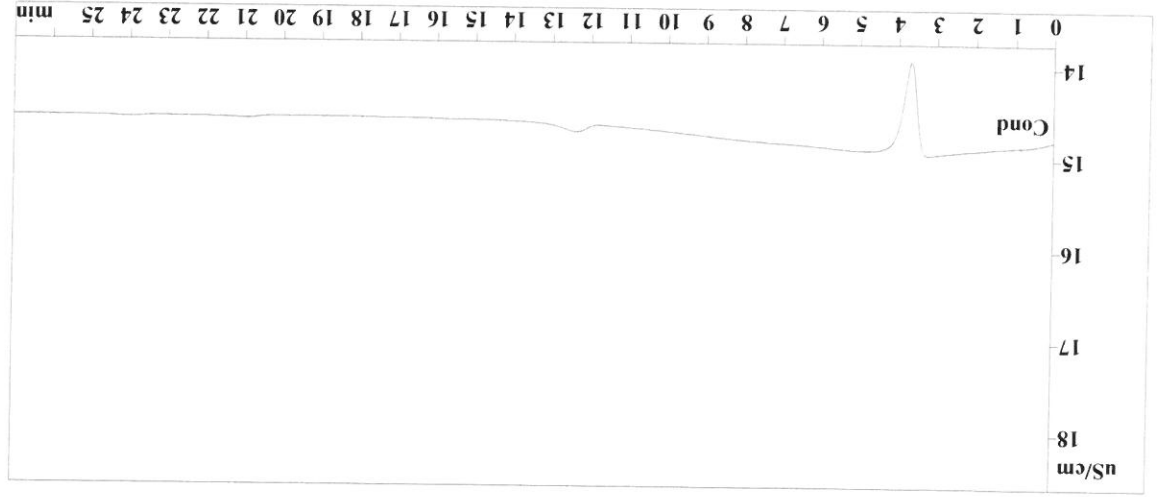
Method: ANIONS 10-02-18.mtw

Last save: 10/2/2018 5:17:28 PM

Last save: 10/2/2018 2:47:48 PM

Run operator: wet  
Analysis number: 64291

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



Quantitation method: Custom

No peaks

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Report date: 10/5/2018 11:46:13 AM  
 Printed by: wet

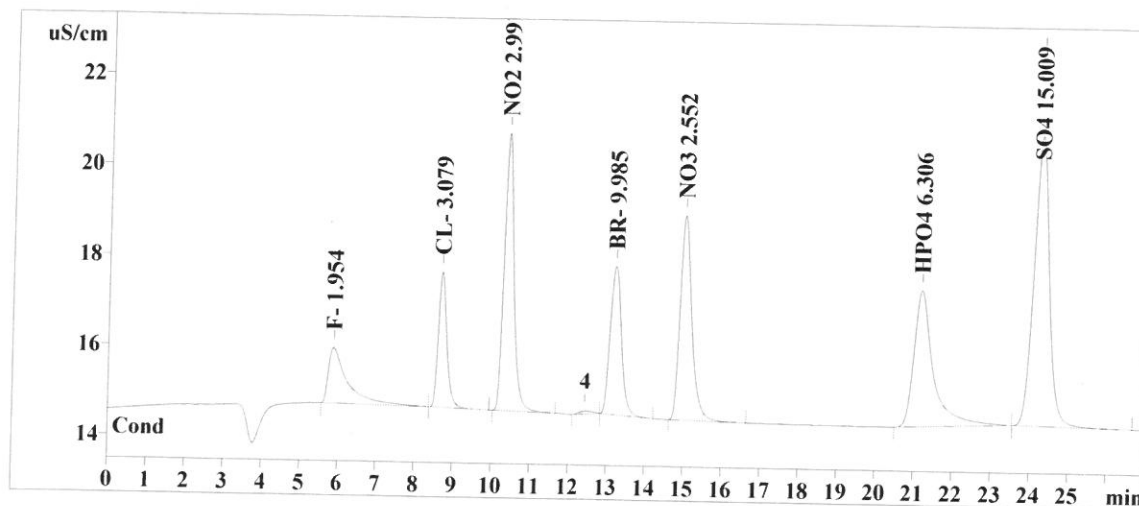
Ident: CCV  
 Analysis from: 10/5/2018 10:27:05 AM  
 File: \_2018-10-05\_

Last save: 10/5/2018 10:53:54 AM

Method: ANIONS 10-02-18.mtw  
 Run operator: wet  
 Analysis number: 64383

Last save: 10/2/2018 2:47:48 PM

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  | 5.87             | 0.440          | 1.23            | 4.45        | 43.273            | 6.68      | 0. |
| 2  | 8.68             | 0.236          | 2.99            | 10.82       | 46.996            | 7.26      | 0. |
| 3  | 10.36            | 0.260          | 6.14            | 22.20       | 107.670           | 16.63     | 0. |
| 4  | 13.19            | 0.318          | 3.28            | 11.85       | 67.243            | 10.38     | 0. |
| 5  | 14.99            | 0.318          | 4.53            | 16.37       | 96.713            | 14.93     | 0. |
| 6  | 21.17            | 0.463          | 3.01            | 10.88       | 106.340           | 16.42     | 0. |
| 7  | 24.22            | 0.417          | 6.42            | 23.19       | 177.861           | 27.46     | 0. |
| 7  | 27.00            | 0.350          | 27.60           | 99.76       | 646.097           | 99.76     | 0. |

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Report date: 10/5/2018 11:46:25 AM  
Printed by: wet

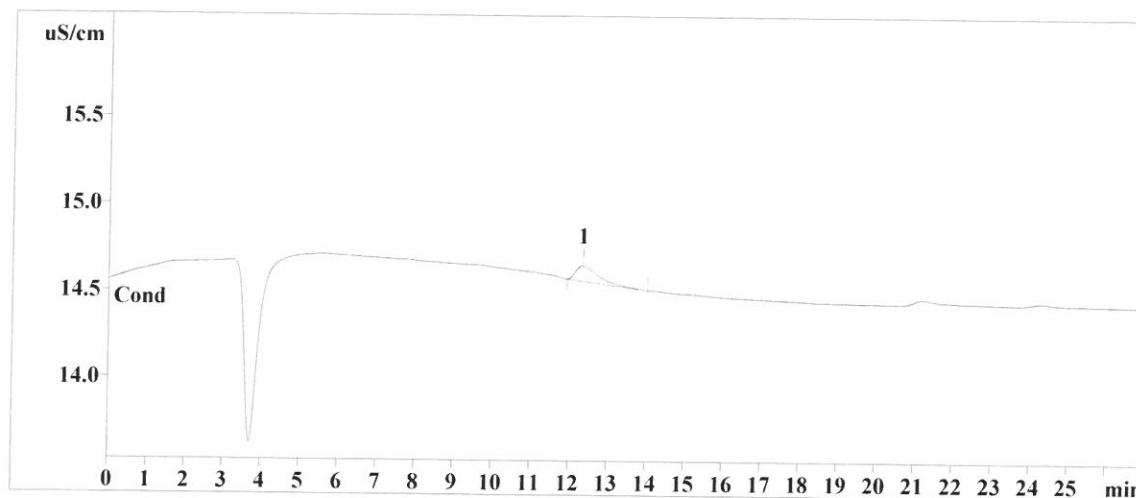
Ident: CCB  
Analysis from: 10/5/2018 10:57:00 AM  
File: \_2018-10-05\_

Last save: 10/5/2018 11:23:50 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64384

Last save: 10/2/2018 2:47:48 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  | 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  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 4  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 5  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 27.00            | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |

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Report date: 10/9/2018 10:47:57 AM  
Printed by: wet

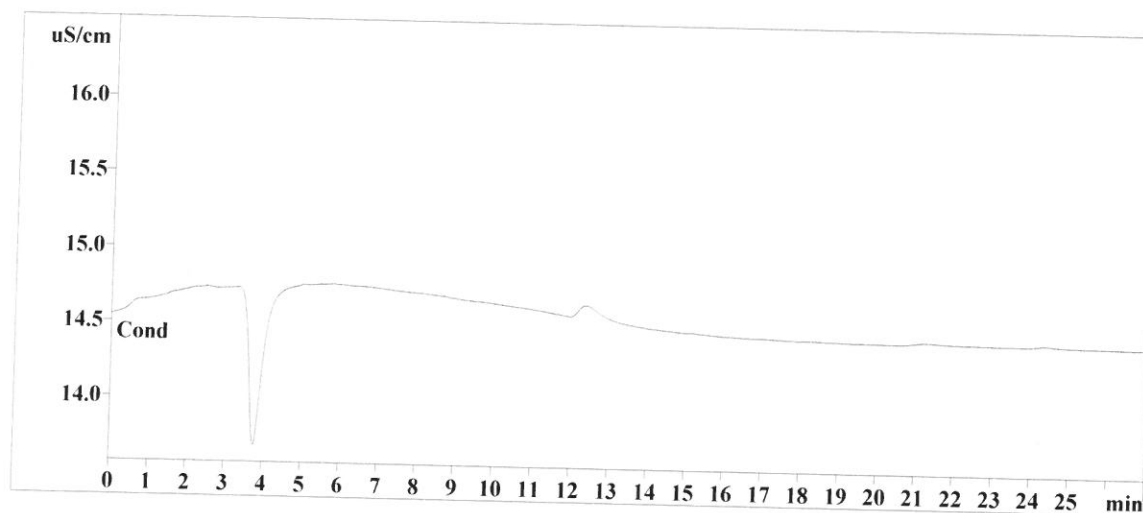
Ident: LB98461BLW  
Analysis from: 10/5/2018 11:27:02 AM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:47:56 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64385

Last save: 10/2/2018 2:47:48 PM

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



Quantitation method: Custom

No peaks

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Report date: 10/9/2018 10:48:06 AM  
 Printed by: wet

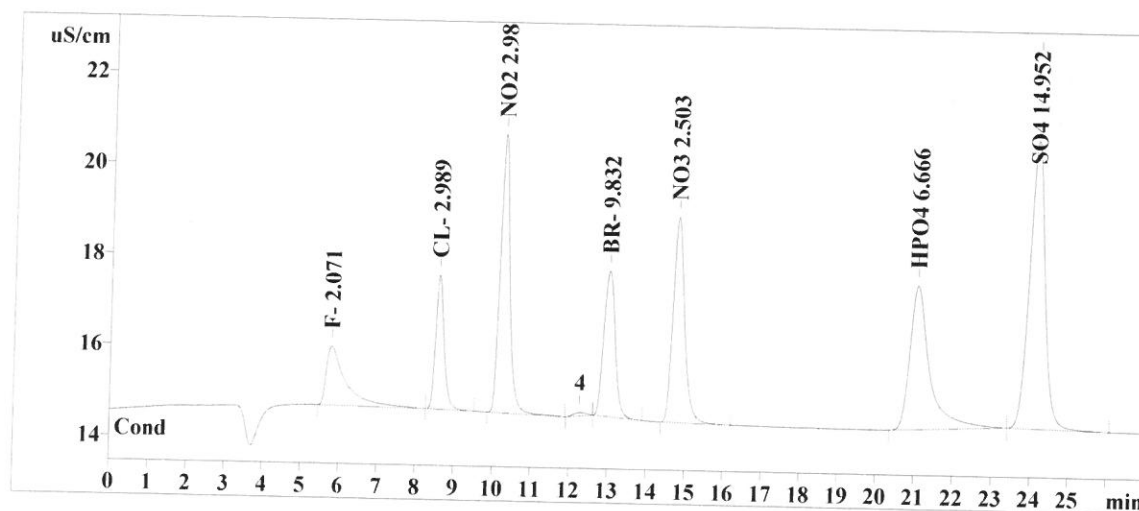
Ident: LB98461BSW  
 Analysis from: 10/5/2018 11:56:57 AM  
 File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
 Run operator: wet  
 Analysis number: 64386

Last save: 10/2/2018 2:47:48 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             | 0.460          | 1.29            | 4.68        | 46.197            | 7.09      | 0. |
| 2  | 8.56             | 0.233          | 2.94            | 10.66       | 45.579            | 6.99      | 0. |
| 3  | 10.21            | 0.259          | 6.12            | 22.18       | 107.350           | 16.47     | 0. |
| 4  | 12.98            | 0.326          | 3.19            | 11.55       | 66.156            | 10.15     | 0. |
| 5  | 14.75            | 0.317          | 4.50            | 16.31       | 94.758            | 14.54     | 0. |
| 6  | 21.04            | 0.471          | 3.15            | 11.41       | 112.848           | 17.32     | 0. |
| 7  | 24.09            | 0.422          | 6.33            | 22.94       | 177.156           | 27.18     | 0. |
| 7  | 27.00            | 0.355          | 27.52           | 99.73       | 650.043           | 99.74     | 0. |

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Report date: 10/9/2018 10:48:20 AM  
Printed by: wet

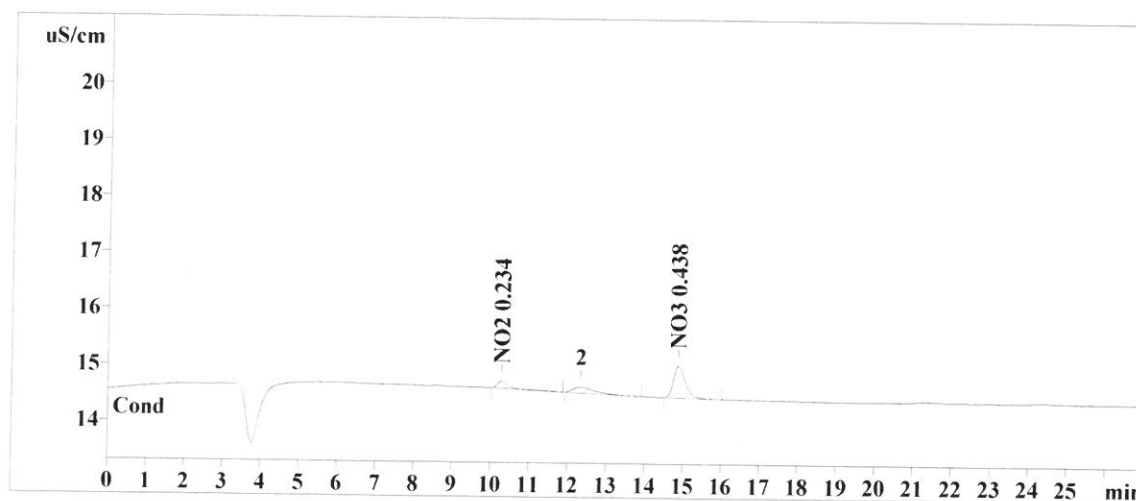
Ident: J5301-01  
Analysis from: 10/5/2018 12:26:52 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64387

Last save: 10/2/2018 2:47:48 PM

SAMPLE:  
: AK/AP  
Vial number: 6  
Volume: 20.0  $\mu$ L  
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  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 3  | 10.28            | 0.264          | 0.13            | 16.20       | 2.799             | 14.53     | 0. |
| 4  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 5  | 14.87            | 0.327          | 0.57            | 70.40       | 12.256            | 63.61     | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 27.00            | 0.084          | 0.70            | 86.60       | 15.055            | 78.14     | 0. |

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Report date: 10/9/2018 10:48:33 AM  
Printed by: wet

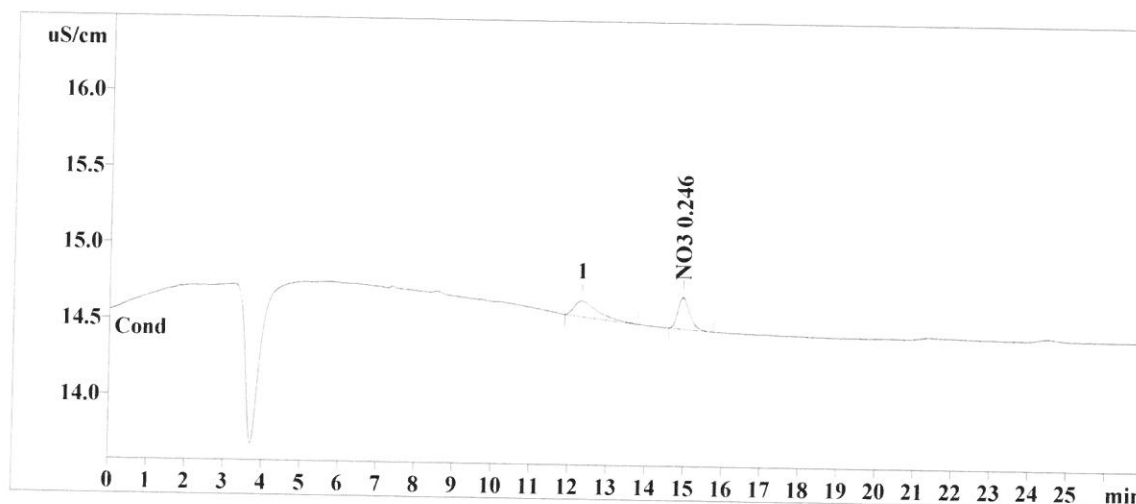
Ident: J5301-02  
Analysis from: 10/5/2018 12:56:47 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64388

Last save: 10/2/2018 2:47:48 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  | 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  | 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  | 14.94            | 0.338          | 0.21            | 66.22       | 4.580             | 51.04     | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 27.00            | 0.048          | 0.21            | 66.22       | 4.580             | 51.04     | 0. |

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Report date: 10/9/2018 10:48:47 AM  
Printed by: wet

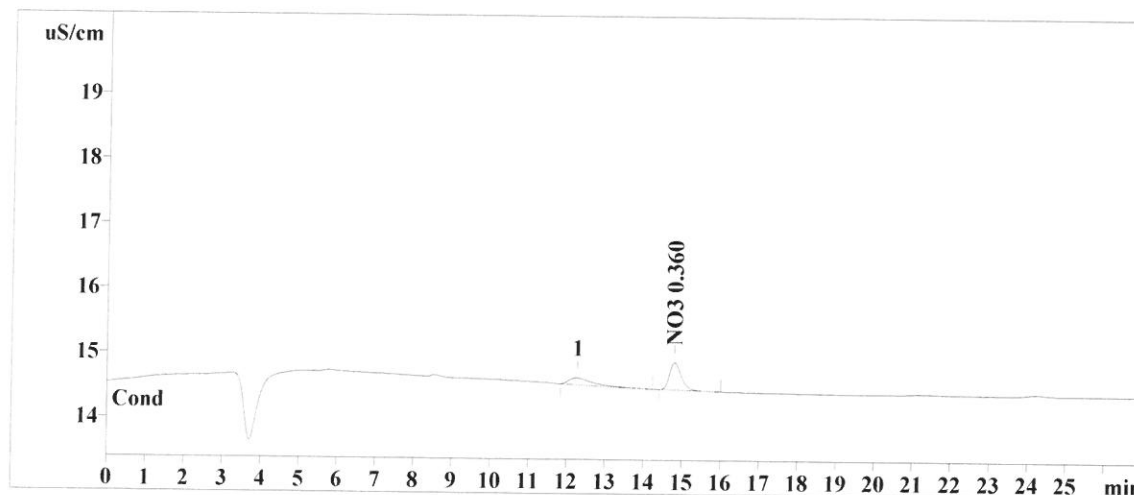
Ident: J5301-03  
Analysis from: 10/5/2018 1:26:42 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64389

Last save: 10/2/2018 2:47:48 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  | 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  | 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            | 0.327          | 0.42            | 79.73       | 9.139             | 66.96     | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 27.00            | 0.047          | 0.42            | 79.73       | 9.139             | 66.96     | 0. |

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Report date: 10/9/2018 10:49:09 AM  
Printed by: wet

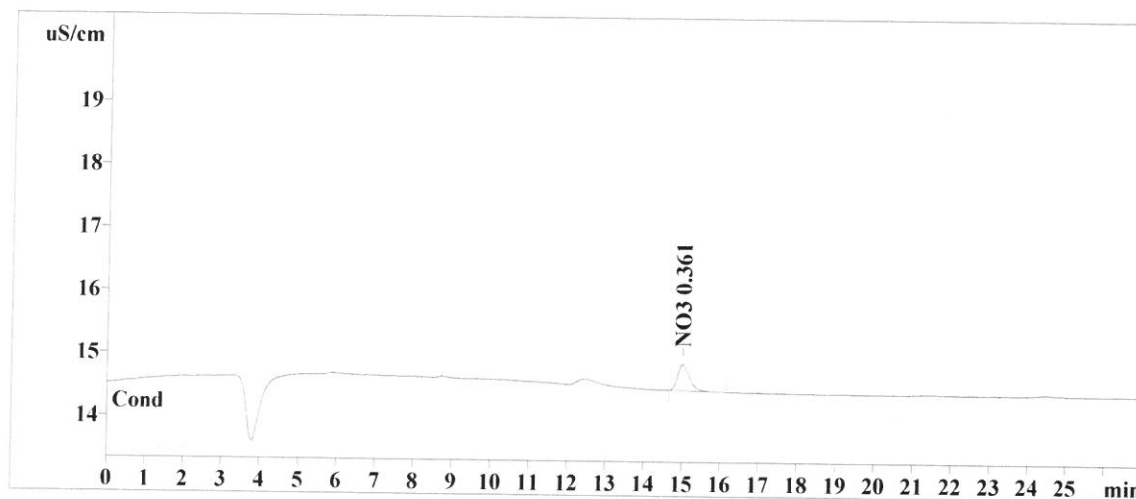
Ident: J5301-03 DUP  
Analysis from: 10/5/2018 1:56:37 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:49:08 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64390

Last save: 10/2/2018 2:47:48 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  | 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  | 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  | 15.01            | 0.331          | 0.42            | 99.90       | 9.171             | 100.00    | 0. |
| 6  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 7  | 27.00            | 0.047          | 0.42            | 99.90       | 9.171             | 100.00    | 0. |

This report has been created by IC Net  
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Report date: 10/9/2018 10:49:17 AM  
Printed by: wet

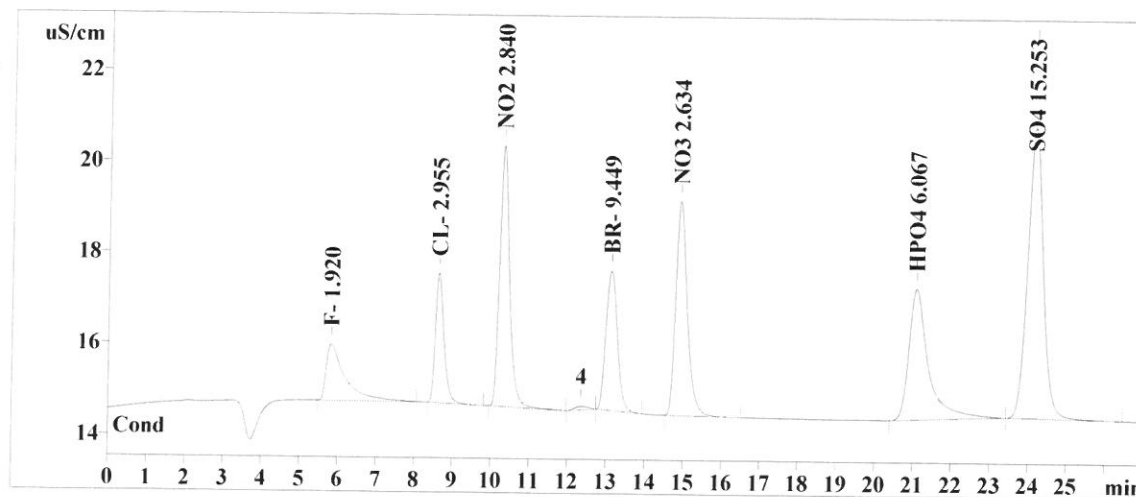
Ident: J5301-03MS  
Analysis from: 10/5/2018 2:26:33 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64391

Last save: 10/2/2018 2:47:48 PM

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  | 5.82             | 0.446          | 1.23            | 4.58        | 42.433            | 6.65      | 0. |
| 2  | 8.62             | 0.238          | 2.83            | 10.56       | 45.044            | 7.06      | 0. |
| 3  | 10.29            | 0.263          | 5.72            | 21.30       | 101.921           | 15.98     | 0. |
| 4  | 13.11            | 0.326          | 3.05            | 11.38       | 63.439            | 9.95      | 0. |
| 5  | 14.89            | 0.320          | 4.70            | 17.50       | 100.006           | 15.68     | 0. |
| 6  | 21.07            | 0.470          | 2.86            | 10.66       | 102.034           | 16.00     | 0. |
| 7  | 24.13            | 0.428          | 6.37            | 23.73       | 180.888           | 28.37     | 0. |
| 7  | 27.00            | 0.356          | 26.75           | 99.69       | 635.765           | 99.70     | 0. |

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Report date: 10/9/2018 10:49:26 AM  
 Printed by: wet

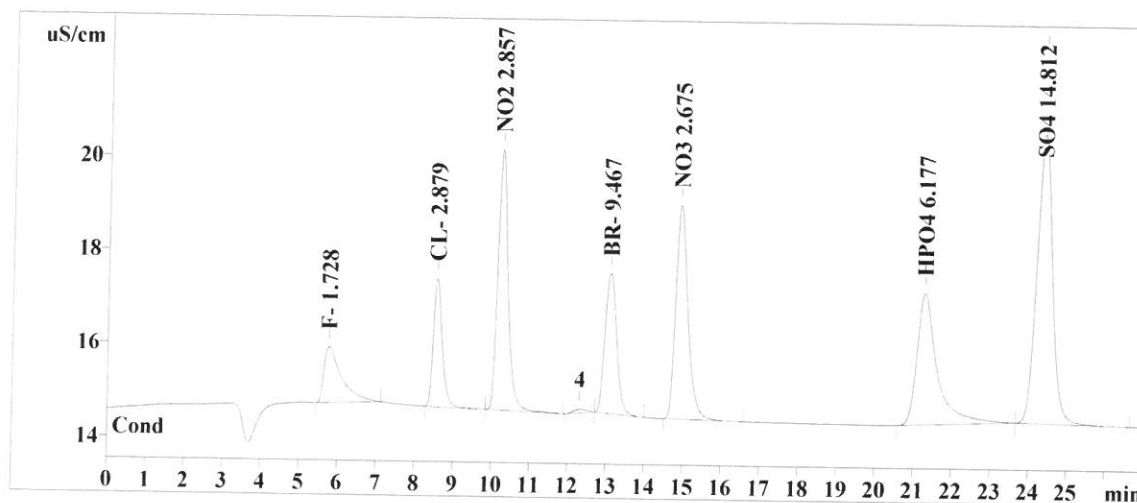
Ident: J5301-03MSD  
 Analysis from: 10/5/2018 2:56:27 PM  
 File: \_2018-10-05\_

Last save: 10/9/2018 10:47:32 AM

Method: ANIONS 10-02-18.mtw  
 Run operator: wet  
 Analysis number: 64392

Last save: 10/2/2018 2:47:48 PM

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  | 5.76             | 0.442          | 1.19            | 4.54        | 37.667            | 5.97      | 0. |
| 2  | 8.55             | 0.240          | 2.74            | 10.48       | 43.847            | 6.95      | 0. |
| 3  | 10.22            | 0.272          | 5.57            | 21.31       | 102.572           | 16.26     | 0. |
| 4  | 13.08            | 0.333          | 2.99            | 11.44       | 63.568            | 10.08     | 0. |
| 5  | 14.90            | 0.334          | 4.57            | 17.49       | 101.645           | 16.12     | 0. |
| 6  | 21.27            | 0.490          | 2.81            | 10.74       | 104.014           | 16.49     | 0. |
| 7  | 24.35            | 0.427          | 6.19            | 23.68       | 175.425           | 27.82     | 0. |
| 7  | 27.00            | 0.363          | 26.05           | 99.68       | 628.738           | 99.70     | 0. |

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 METROHM LTD

Report date: 10/9/2018 10:49:32 AM  
 Printed by: wet

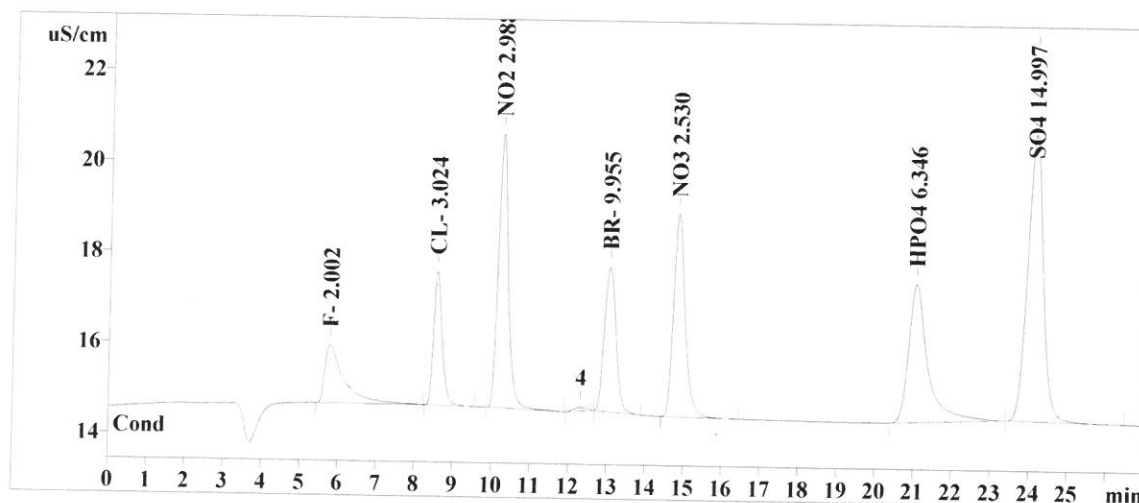
Ident: CCV  
 Analysis from: 10/5/2018 3:26:23 PM  
 File: \_2018-10-05\_

Last save: 10/5/2018 3:53:12 PM

Method: ANIONS 10-02-18.mtw  
 Run operator: wet  
 Analysis number: 64393

Last save: 10/2/2018 2:47:48 PM

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  | 5.77             | 0.446          | 1.28            | 4.67        | 44.482            | 6.87      | 0. |
| 2  | 8.55             | 0.236          | 2.93            | 10.73       | 46.123            | 7.12      | 0. |
| 3  | 10.21            | 0.262          | 6.04            | 22.11       | 107.564           | 16.61     | 0. |
| 4  | 13.03            | 0.331          | 3.18            | 11.63       | 67.030            | 10.35     | 0. |
| 5  | 14.81            | 0.323          | 4.46            | 16.32       | 95.843            | 14.80     | 0. |
| 6  | 21.04            | 0.466          | 3.04            | 11.14       | 107.069           | 16.53     | 0. |
| 7  | 24.08            | 0.425          | 6.31            | 23.10       | 177.718           | 27.44     | 0. |
| 7  | 27.00            | 0.355          | 27.25           | 99.70       | 645.829           | 99.72     | 0. |

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 METROHM LTD

Report date: 10/9/2018 10:49:50 AM  
Printed by: wet

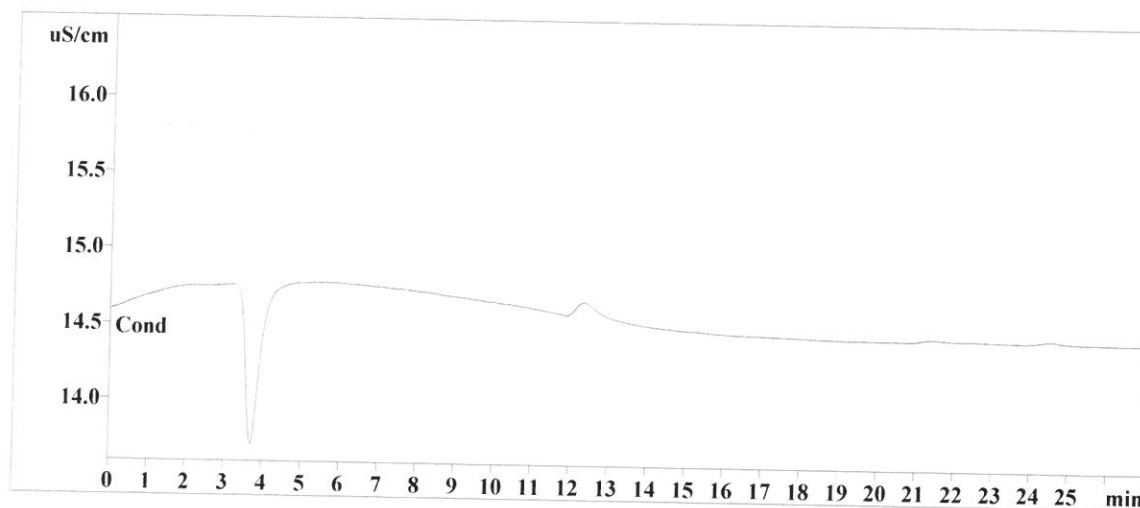
Ident: CCB  
Analysis from: 10/5/2018 3:56:18 PM  
File: \_2018-10-05\_

Last save: 10/9/2018 10:49:48 AM

Method: ANIONS 10-02-18.mtw  
Run operator: wet  
Analysis number: 64394

Last save: 10/2/2018 2:47:48 PM

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



Quantitation method: Custom

No peaks

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