

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031722\  
 Data File : VN071352.D  
 Acq On : 17 Mar 2022 15:07  
 Operator : JC\MD  
 Sample : N2002-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 220316001-02-TRIP-BLANK

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN071352.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.028       | 3             | 7           | 26           | rVB2     | 63884          | 194644        | 9.72%           | 2.382%        |
| 2         | 2.234       | 37            | 42          | 51           | rVB      | 104837         | 178538        | 8.91%           | 2.185%        |
| 3         | 4.569       | 431           | 439         | 451          | rBV2     | 28967          | 92883         | 4.64%           | 1.137%        |
| 4         | 7.092       | 859           | 868         | 877          | rBV      | 8535           | 23994         | 1.20%           | 0.294%        |
| 5         | 7.657       | 953           | 964         | 977          | rBV      | 317149         | 819860        | 40.93%          | 10.032%       |
| 6         | 8.433       | 1086          | 1096        | 1111         | rBV      | 332226         | 761268        | 38.01%          | 9.315%        |
| 7         | 8.610       | 1115          | 1126        | 1127         | rBV5     | 18255          | 53255         | 2.66%           | 0.652%        |
| 8         | 8.963       | 1174          | 1186        | 1201         | rBV      | 715512         | 1498868       | 74.83%          | 18.340%       |
| 9         | 10.439      | 1428          | 1437        | 1456         | rBV      | 1093870        | 2002961       | 100.00%         | 24.508%       |
| 10        | 11.745      | 1651          | 1659        | 1673         | rBV      | 870375         | 1583112       | 79.04%          | 19.371%       |
| 11        | 12.727      | 1819          | 1826        | 1840         | rVB      | 558513         | 963148        | 48.09%          | 11.785%       |

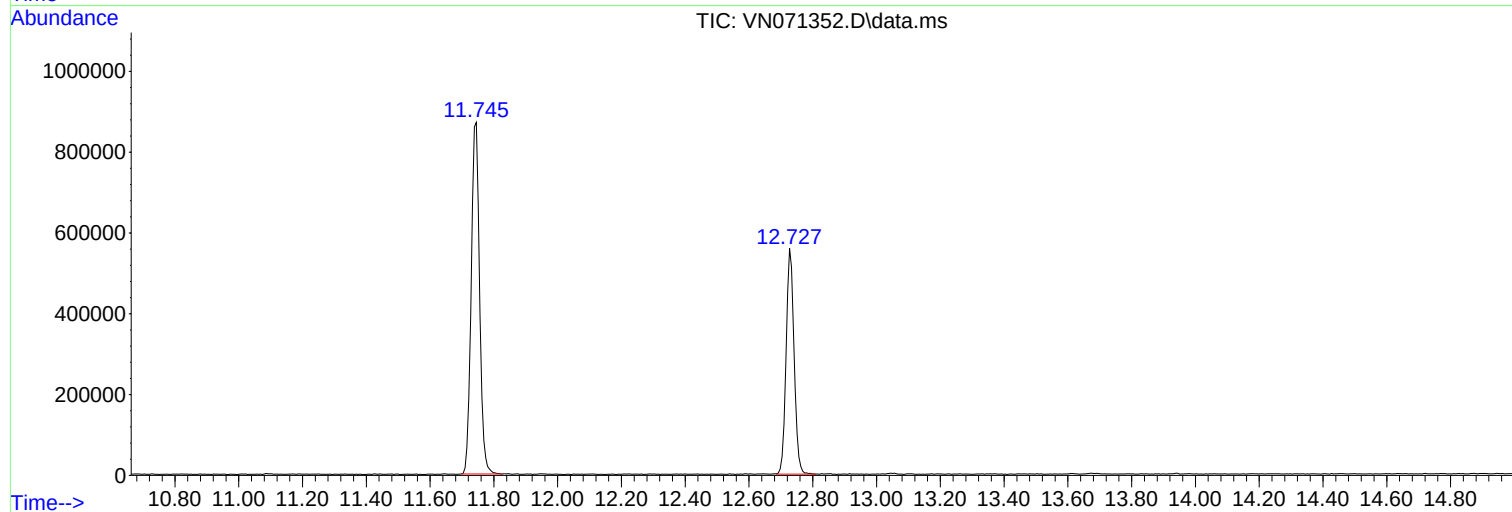
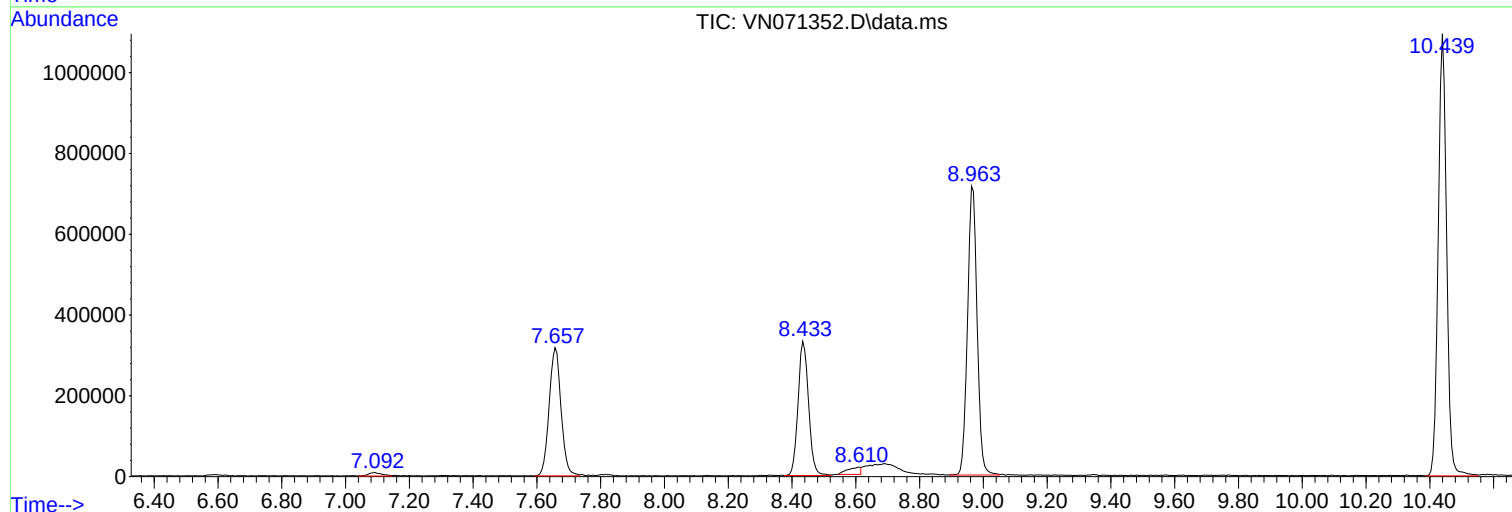
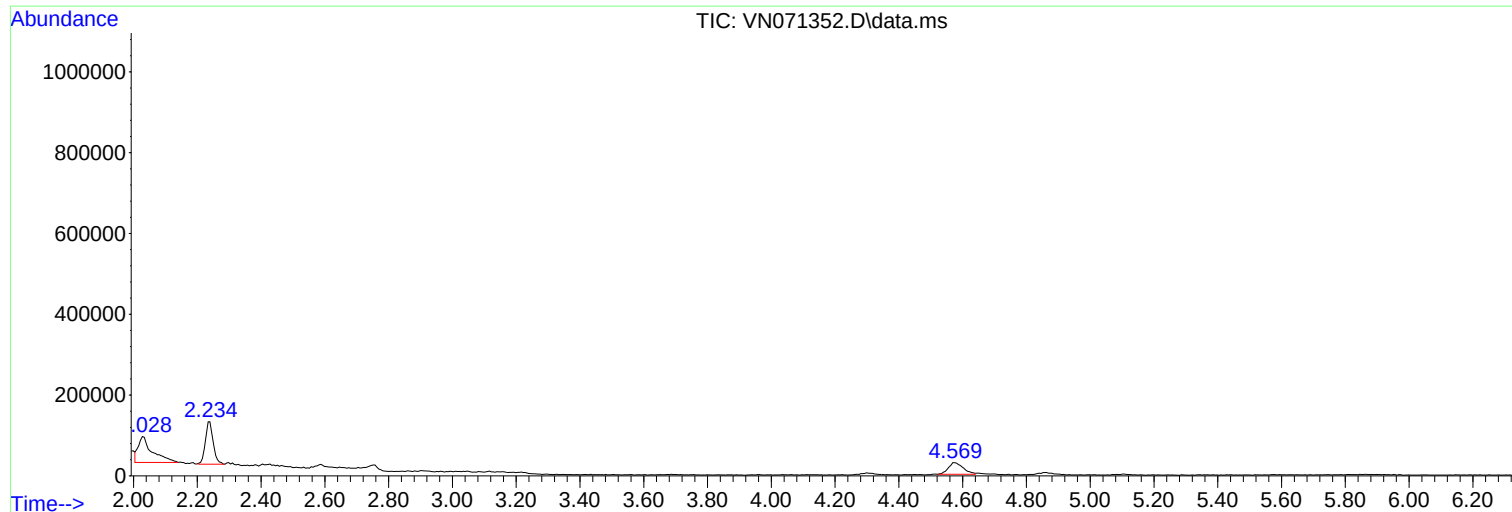
Sum of corrected areas: 8172531

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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
220316001-02-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031722\  
Data File : VN071352.D  
Acq On : 17 Mar 2022 15:07  
Operator : JC\MD  
Sample : N2002-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
220316001-02-TRIP-BLANK

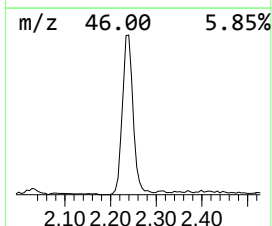
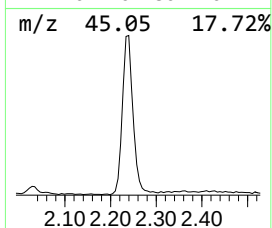
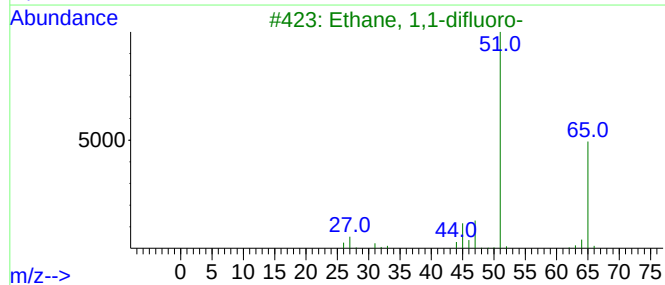
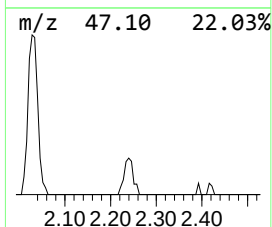
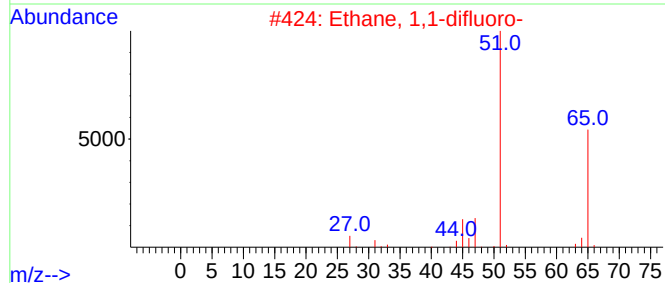
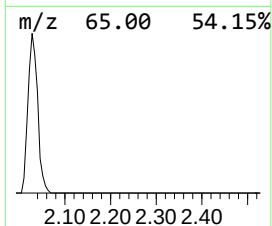
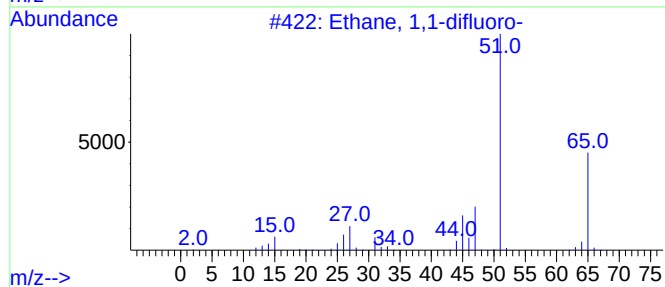
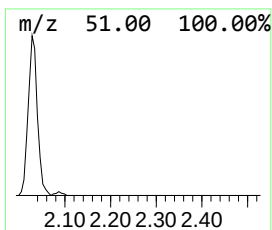
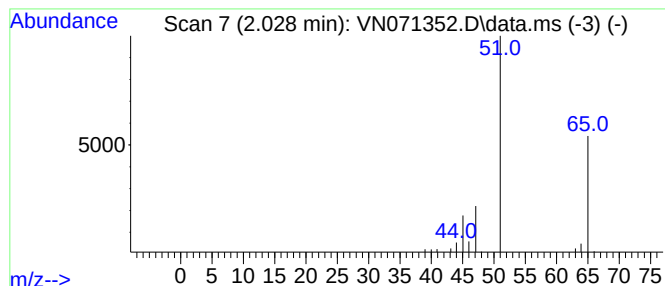
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Ethane, 1,1-difluoro- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.028 | 7.12 ug/l | 194644 | Bromochloromethane | 7.657 |

| Hit# | of | 5 | Tentative ID           | MW | MolForm | CAS#        | Qual |
|------|----|---|------------------------|----|---------|-------------|------|
| 1    |    |   | Ethane, 1,1-difluoro-  | 66 | C2H4F2  | 000075-37-6 | 91   |
| 2    |    |   | Ethane, 1,1-difluoro-  | 66 | C2H4F2  | 000075-37-6 | 90   |
| 3    |    |   | Ethane, 1,1-difluoro-  | 66 | C2H4F2  | 000075-37-6 | 90   |
| 4    |    |   | Propiolonitrile        | 51 | C3HN    | 001070-71-9 | 3    |
| 5    |    |   | Propane, 2,2-difluoro- | 80 | C3H6F2  | 000420-45-1 | 2    |



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Sample : N2002-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
220316001-02-TRIP-BLANK

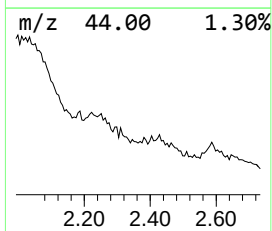
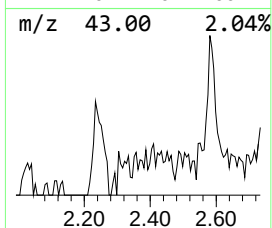
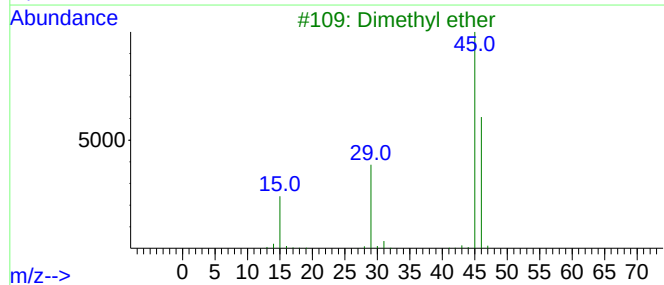
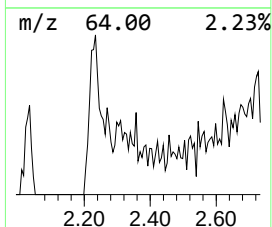
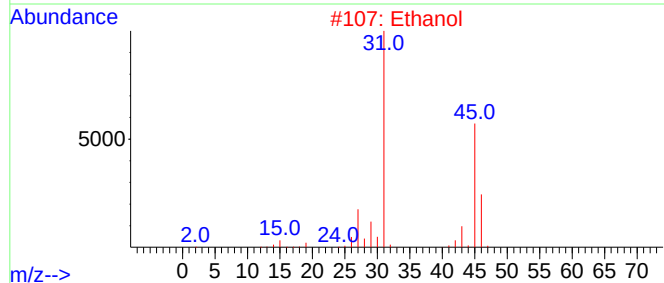
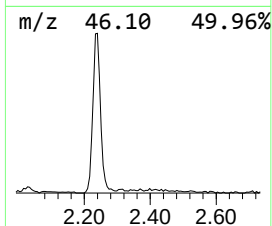
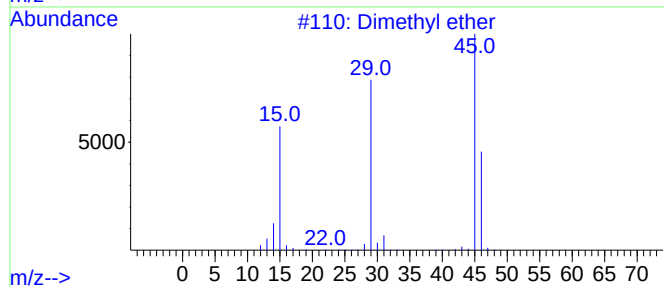
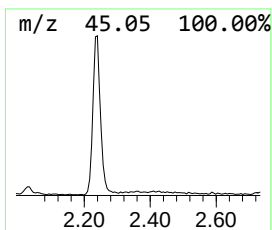
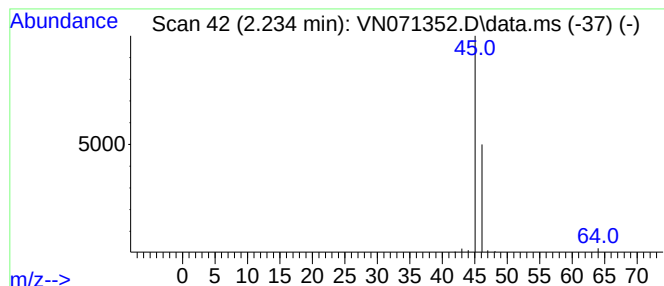
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Dimethyl ether Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.234 | 6.53 ug/l | 178538 | Bromochloromethane | 7.657 |

| Hit# | of | 5 | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------|----|---------|-------------|------|
| 1    |    |   | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 90   |
| 2    |    |   | Ethanol        | 46 | C2H6O   | 000064-17-5 | 9    |
| 3    |    |   | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 9    |
| 4    |    |   | Formic acid    | 46 | CH2O2   | 000064-18-6 | 7    |
| 5    |    |   | Ethanol        | 46 | C2H6O   | 000064-17-5 | 7    |



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Sample : N2002-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
220316001-02-TRIP-BLANK

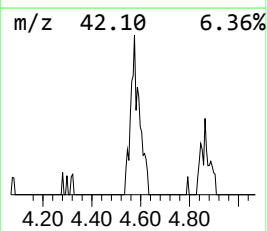
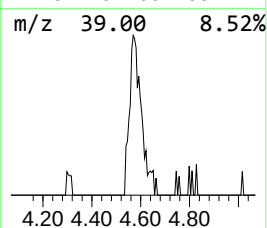
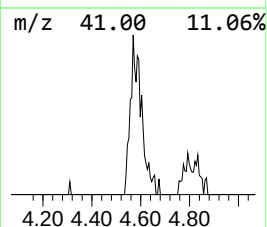
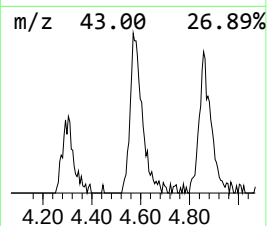
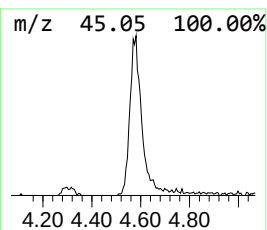
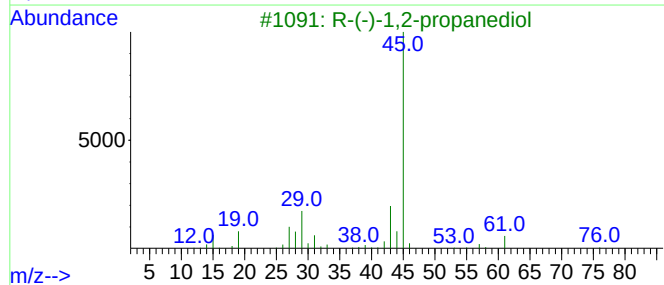
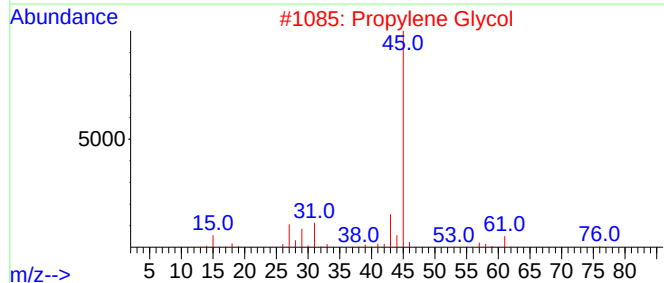
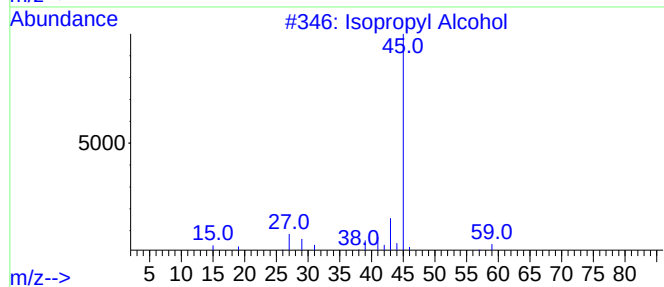
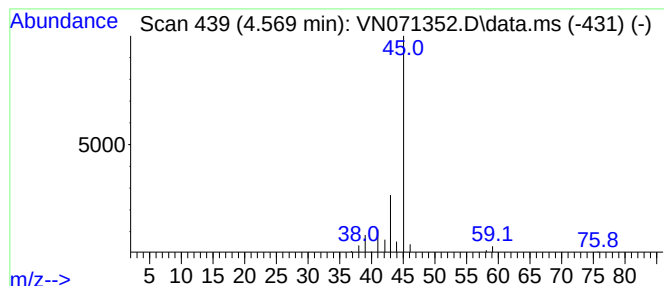
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Isopropyl Alcohol Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 4.569 | 3.40 ug/l | 92883 | Bromochloromethane | 7.657 |

| Hit# | of | 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol       | 60 | C3H8O   | 000067-63-0 | 64   |
| 2    |    |   | Propylene Glycol        | 76 | C3H8O2  | 000057-55-6 | 9    |
| 3    |    |   | R-(-)-1,2-propanediol   | 76 | C3H8O2  | 004254-14-2 | 9    |
| 4    |    |   | Isopropyl Alcohol       | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    |   | 2-Propanone, 1-methoxy- | 88 | C4H8O2  | 005878-19-3 | 9    |



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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
220316001-02-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| Ethane, 1,1-dif... | 2.028 | 7.1     | ug/l  | 194644   | 1                     | 7.657 | 819860 | 30.0 |
| Dimethyl ether     | 2.234 | 6.5     | ug/l  | 178538   | 1                     | 7.657 | 819860 | 30.0 |
| Isopropyl Alcohol  | 4.569 | 3.4     | ug/l  | 92883    | 1                     | 7.657 | 819860 | 30.0 |