

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
 Data File : VN071380.D  
 Acq On : 18 Mar 2022 18:19  
 Operator : JC\MD  
 Sample : N2015-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TOLL-MW-02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % 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\82N030722W.M  
 Title : SW846 8260

Signal : TIC: VN071380.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         | 2.228       | 34            | 41          | 45           | rBV      | 534739         | 1149355       | 25.12%          | 3.449%        |
| 2         | 3.122       | 187           | 193         | 204          | rVB3     | 119249         | 298136        | 6.52%           | 0.895%        |
| 3         | 3.510       | 251           | 259         | 269          | rBV3     | 23951          | 60238         | 1.32%           | 0.181%        |
| 4         | 5.087       | 512           | 527         | 528          | rBV2     | 70994          | 185453        | 4.05%           | 0.557%        |
| 5         | 5.145       | 529           | 537         | 568          | rVB      | 242509         | 986840        | 21.57%          | 2.962%        |
| 6         | 5.622       | 601           | 618         | 636          | rBV2     | 401150         | 1404343       | 30.69%          | 4.215%        |
| 7         | 6.122       | 691           | 703         | 714          | rBV4     | 37675          | 117896        | 2.58%           | 0.354%        |
| 8         | 7.145       | 864           | 877         | 898          | rVB      | 802164         | 2394694       | 52.34%          | 7.187%        |
| 9         | 8.022       | 1016          | 1026        | 1030         | rBV      | 529425         | 1230167       | 26.89%          | 3.692%        |
| 10        | 8.086       | 1030          | 1037        | 1048         | rVV2     | 1278374        | 3142801       | 68.69%          | 9.432%        |
| 11        | 8.175       | 1048          | 1052        | 1063         | rVB4     | 32355          | 77480         | 1.69%           | 0.233%        |
| 12        | 8.292       | 1063          | 1072        | 1078         | rBV2     | 26417          | 63914         | 1.40%           | 0.192%        |
| 13        | 8.433       | 1088          | 1096        | 1111         | rVB      | 608128         | 1425294       | 31.15%          | 4.277%        |
| 14        | 8.575       | 1111          | 1120        | 1121         | rBV3     | 61678          | 128957        | 2.82%           | 0.387%        |
| 15        | 8.698       | 1138          | 1141        | 1155         | rVB4     | 81703          | 202750        | 4.43%           | 0.608%        |
| 16        | 8.963       | 1176          | 1186        | 1201         | rBV      | 1526734        | 3178175       | 69.46%          | 9.538%        |
| 17        | 9.198       | 1218          | 1226        | 1245         | rVB      | 158936         | 401806        | 8.78%           | 1.206%        |
| 18        | 9.451       | 1256          | 1269        | 1277         | rBV5     | 140621         | 408760        | 8.93%           | 1.227%        |
| 19        | 9.875       | 1335          | 1341        | 1350         | rVB5     | 33360          | 73523         | 1.61%           | 0.221%        |
| 20        | 10.016      | 1360          | 1365        | 1371         | rVB2     | 56375          | 106314        | 2.32%           | 0.319%        |
| 21        | 10.198      | 1390          | 1396        | 1402         | rBV4     | 22098          | 53707         | 1.17%           | 0.161%        |
| 22        | 10.439      | 1429          | 1437        | 1453         | rBV      | 2465329        | 4575242       | 100.00%         | 13.731%       |
| 23        | 10.610      | 1460          | 1466        | 1468         | rBV4     | 45388          | 87140         | 1.90%           | 0.262%        |
| 24        | 10.716      | 1478          | 1484        | 1490         | rBV3     | 31423          | 58023         | 1.27%           | 0.174%        |
| 25        | 10.774      | 1490          | 1494        | 1501         | rVB      | 81537          | 154960        | 3.39%           | 0.465%        |
| 26        | 10.874      | 1501          | 1511        | 1517         | rBV4     | 54272          | 127641        | 2.79%           | 0.383%        |
| 27        | 11.292      | 1572          | 1582        | 1587         | rVB3     | 63584          | 139312        | 3.04%           | 0.418%        |
| 28        | 11.739      | 1650          | 1658        | 1669         | rBV      | 2164982        | 3901449       | 85.27%          | 11.709%       |
| 29        | 11.833      | 1669          | 1674        | 1680         | rVB3     | 29706          | 55612         | 1.22%           | 0.167%        |
| 30        | 11.986      | 1696          | 1700        | 1712         | rVB7     | 32276          | 73175         | 1.60%           | 0.220%        |
| 31        | 12.574      | 1790          | 1800        | 1808         | rVB3     | 45178          | 98432         | 2.15%           | 0.295%        |
| 32        | 12.727      | 1819          | 1826        | 1835         | rBV      | 1820954        | 3057321       | 66.82%          | 9.175%        |
| 33        | 12.910      | 1851          | 1857        | 1863         | rVB      | 25328          | 51795         | 1.13%           | 0.155%        |
| 34        | 13.215      | 1903          | 1909        | 1915         | rVB      | 27701          | 50281         | 1.10%           | 0.151%        |
| 35        | 13.480      | 1949          | 1954        | 1962         | rBV3     | 43998          | 97979         | 2.14%           | 0.294%        |
| 36        | 13.668      | 1979          | 1986        | 1996         | rBV      | 1768918        | 3027844       | 66.18%          | 9.087%        |

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

Integration Parameters: RTEINT.P  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % 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\82N030722W.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 37 | 13.768 | 1996 | 2003 | 2011 | rVB  | 111039 | 205210 | 4.49% | 0.616% |
| 38 | 13.868 | 2017 | 2020 | 2026 | rVB  | 41283  | 70759  | 1.55% | 0.212% |
| 39 | 13.998 | 2036 | 2042 | 2047 | rVB6 | 30222  | 59831  | 1.31% | 0.180% |
| 40 | 14.215 | 2074 | 2079 | 2084 | rVB2 | 31467  | 49109  | 1.07% | 0.147% |
| 41 | 14.321 | 2092 | 2097 | 2103 | rVB2 | 49207  | 79862  | 1.75% | 0.240% |
| 42 | 14.462 | 2115 | 2121 | 2125 | rBV2 | 30682  | 54221  | 1.19% | 0.163% |
| 43 | 14.533 | 2129 | 2133 | 2142 | rVB3 | 40820  | 82544  | 1.80% | 0.248% |
| 44 | 14.927 | 2193 | 2200 | 2206 | rBV4 | 31120  | 72852  | 1.59% | 0.219% |

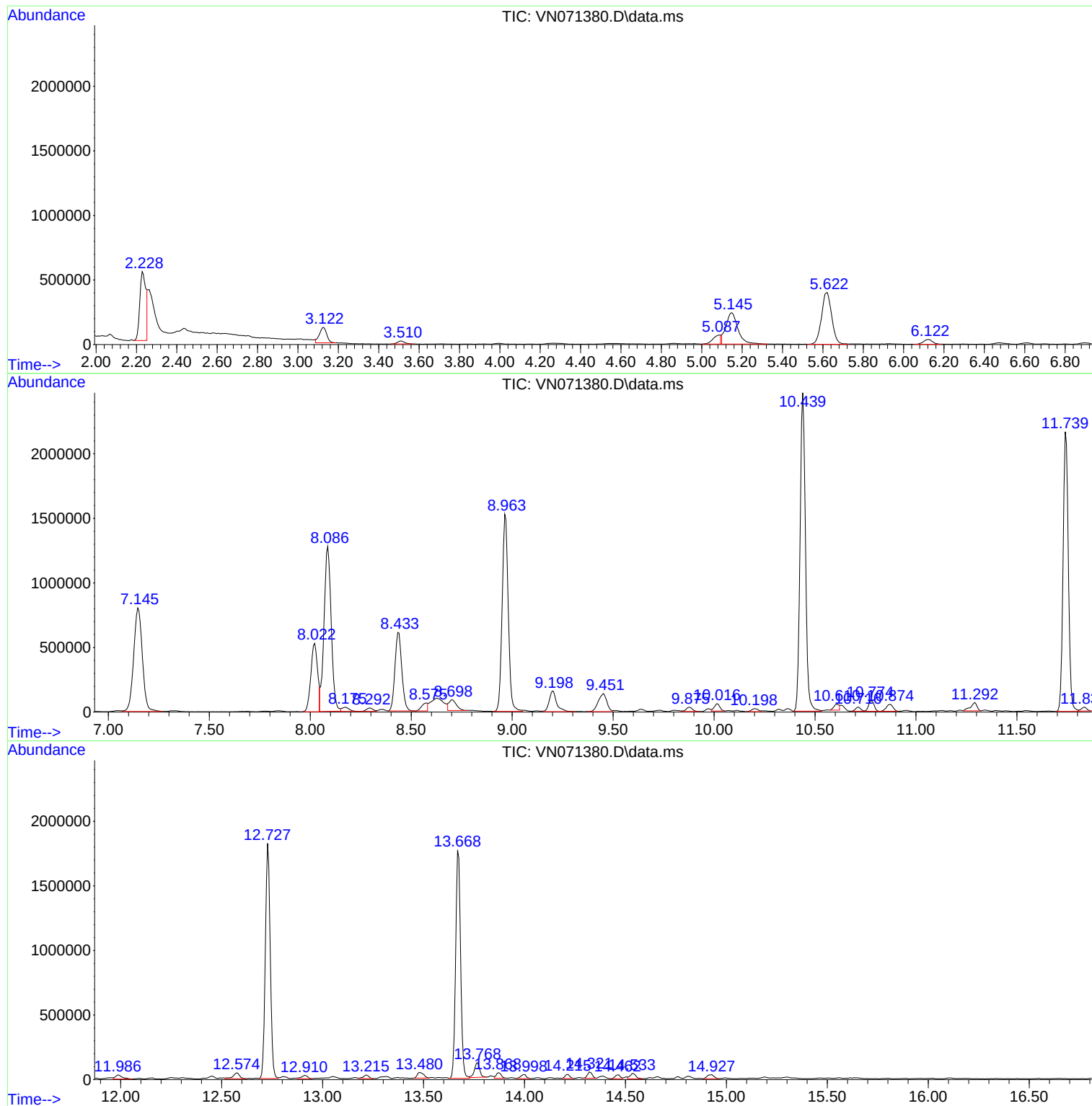
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ClientSampleId :  
TOLL-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
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Operator : JC\MD  
Sample : N2015-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

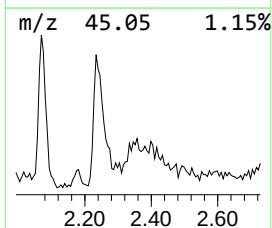
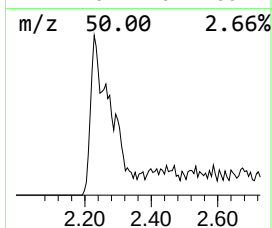
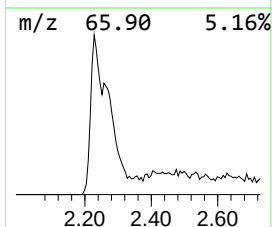
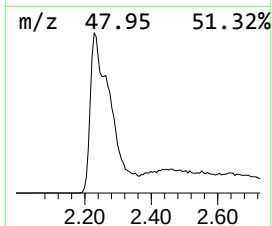
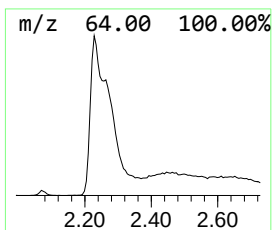
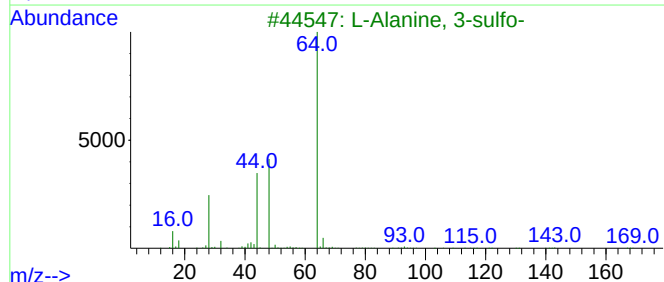
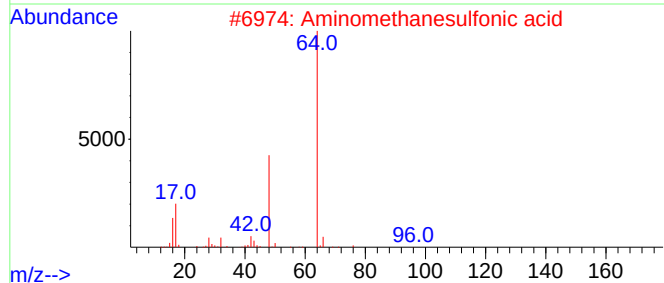
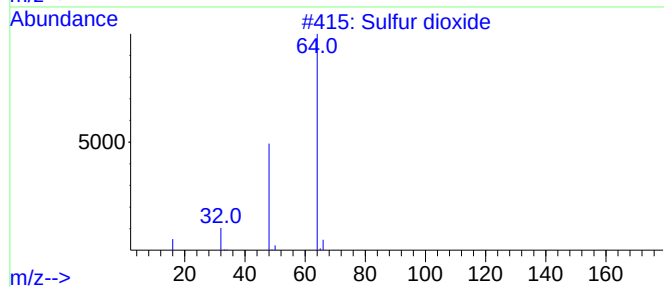
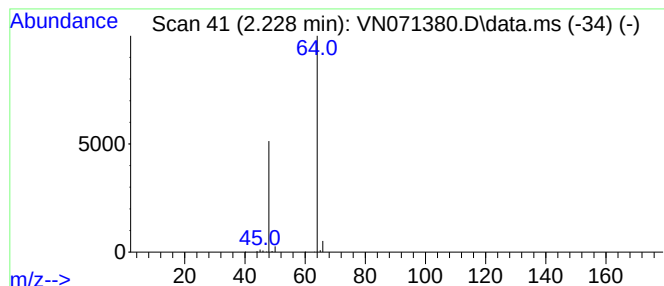
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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

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Peak Number 1 Sulfur dioxide Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 2.228 | 18.29 ug/l | 1149360 | Pentafluorobenzene | 8.086 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------|-----|----------|-------------|------|
| 1    |    |   | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 83   |
| 2    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 74   |
| 3    |    |   | L-Alanine, 3-sulfo-       | 169 | C3H7NO5S | 000498-40-8 | 9    |
| 4    |    |   | Ethene, 1,1-difluoro-     | 64  | C2H2F2   | 000075-38-7 | 4    |
| 5    |    |   | Ethyl Chloride            | 64  | C2H5Cl   | 000075-00-3 | 3    |



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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

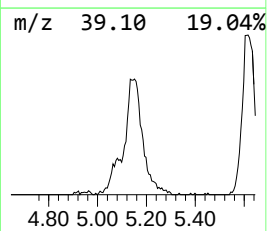
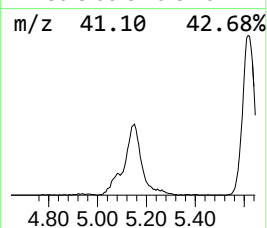
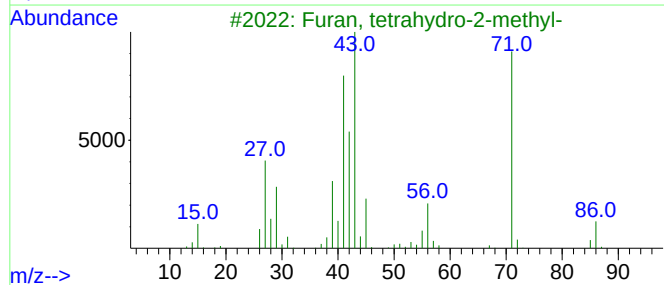
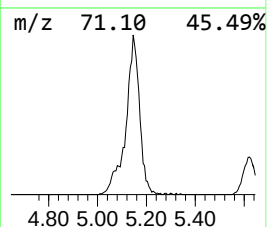
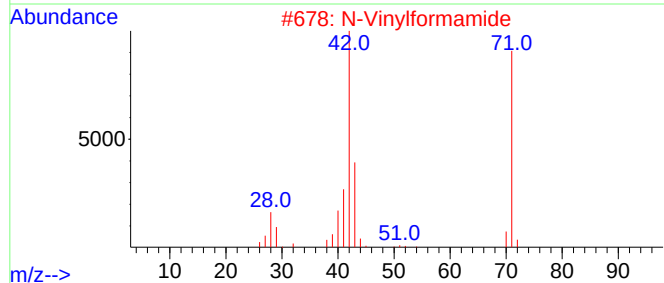
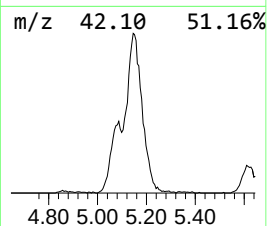
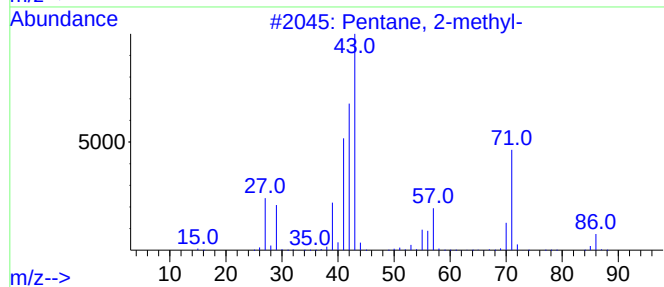
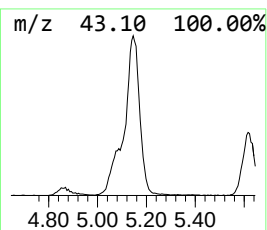
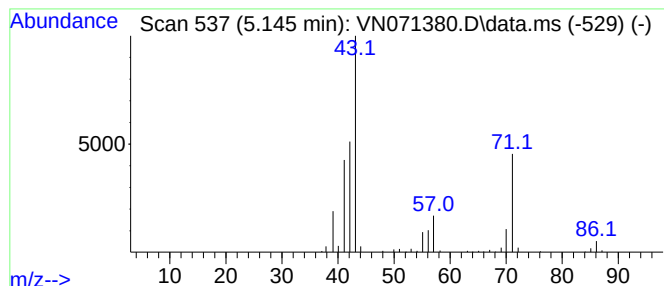
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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

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Peak Number 2 Pentane, 2-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 5.145 | 15.70 ug/l | 986840 | Pentafluorobenzene | 8.086 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2-methyl-          | 86  | C6H14   | 000107-83-5 | 94   |
| 2    |    |   | N-Vinylformamide            | 71  | C3H5NO  | 013162-05-5 | 50   |
| 3    |    |   | Furan, tetrahydro-2-methyl- | 86  | C5H10O  | 000096-47-9 | 50   |
| 4    |    |   | 1-Butanol, 2,3-dimethyl-    | 102 | C6H14O  | 019550-30-2 | 45   |
| 5    |    |   | Butane, 2,3-dimethyl-       | 86  | C6H14   | 000079-29-8 | 43   |



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Sample : N2015-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

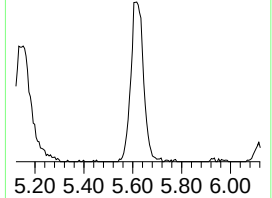
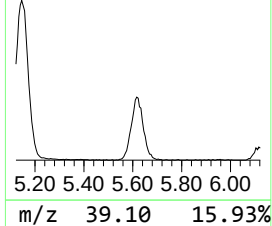
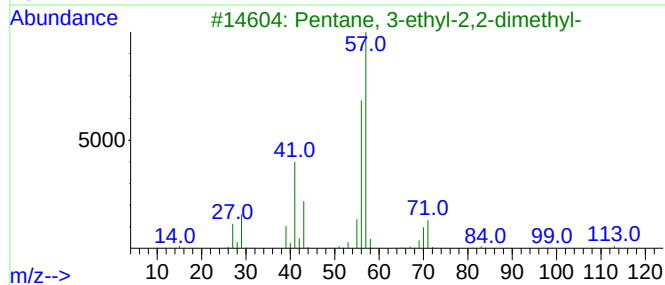
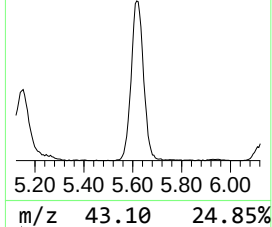
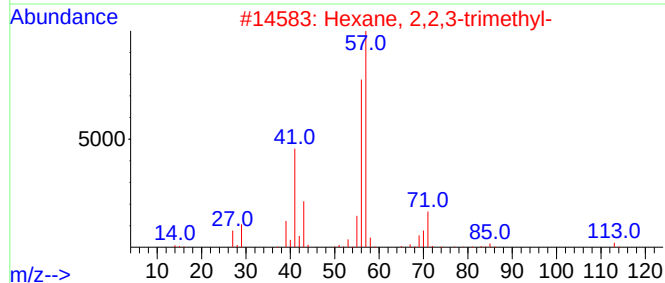
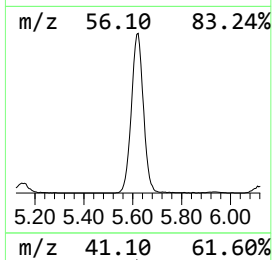
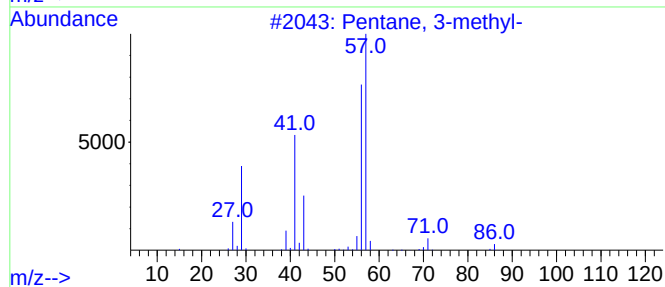
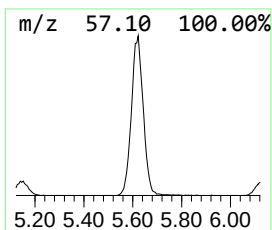
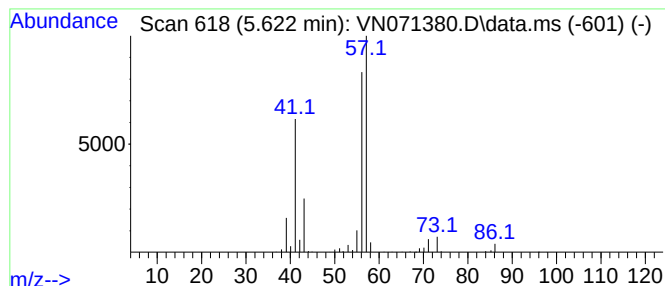
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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

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Peak Number 3 Pentane, 3-methyl- Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 5.622 | 22.34 ug/l | 1404340 | Pentafluorobenzene | 8.086 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 3-methyl-             | 86  | C6H14   | 000096-14-0 | 91   |
| 2    |    |   | Hexane, 2,2,3-trimethyl-       | 128 | C9H20   | 016747-25-4 | 78   |
| 3    |    |   | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 64   |
| 4    |    |   | Oxirane, (1-methylethyl)-      | 86  | C5H10O  | 001438-14-8 | 59   |
| 5    |    |   | Pentane, 2,2,3-trimethyl-      | 114 | C8H18   | 000564-02-3 | 50   |



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Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

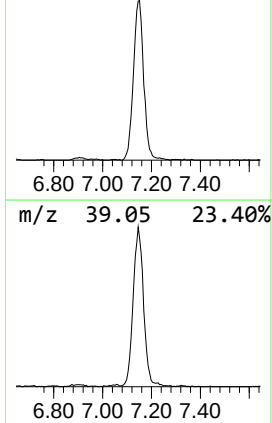
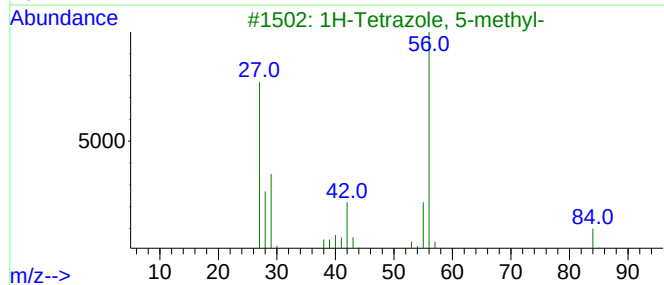
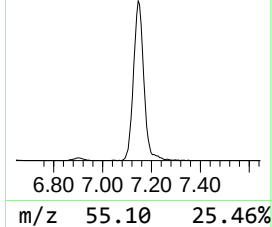
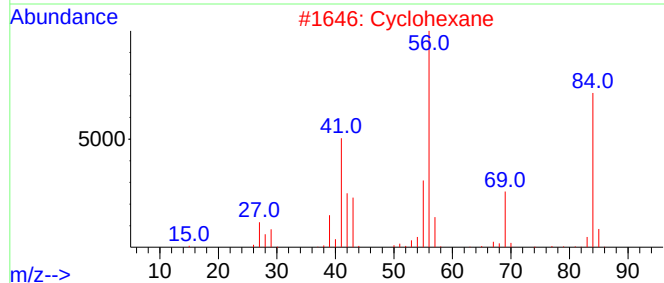
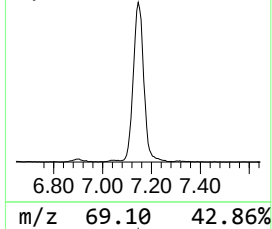
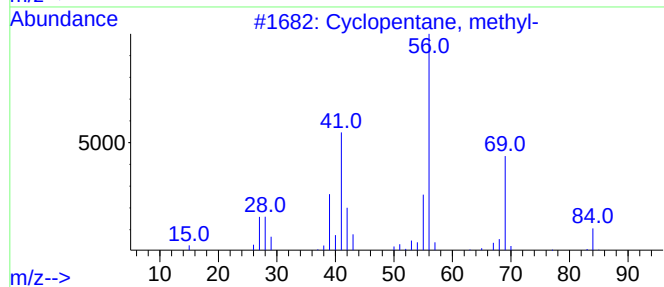
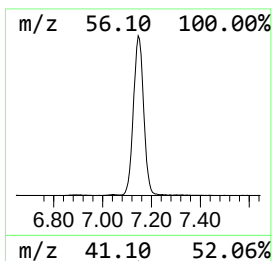
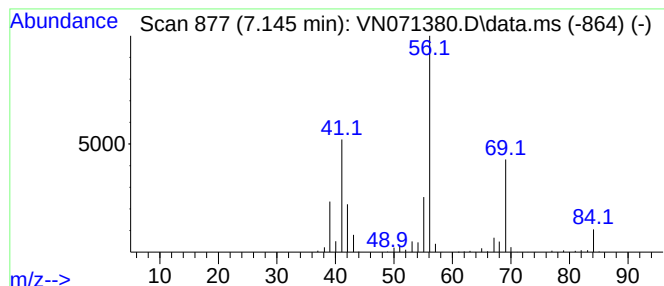
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Quant Title : SW846 8260

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

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Peak Number 4 Cyclopentane, methyl- Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 7.145 | 38.10 ug/l | 2394690 | Pentafluorobenzene | 8.086 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentane, methyl-   | 84  | C6H12   | 000096-37-7 | 94   |
| 2    |    |   | Cyclohexane             | 84  | C6H12   | 000110-82-7 | 78   |
| 3    |    |   | 1H-Tetrazole, 5-methyl- | 84  | C2H4N4  | 004076-36-2 | 72   |
| 4    |    |   | Cyclobutane, ethyl-     | 84  | C6H12   | 004806-61-5 | 64   |
| 5    |    |   | Cyclobutane, butyl-     | 112 | C8H16   | 013152-44-8 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
Data File : VN071380.D  
Acq On : 18 Mar 2022 18:19  
Operator : JC\MD  
Sample : N2015-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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

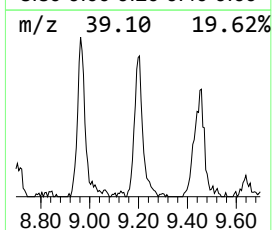
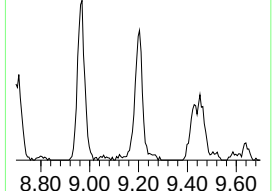
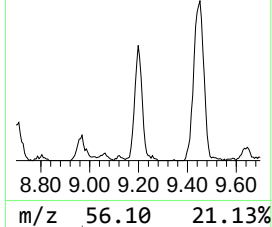
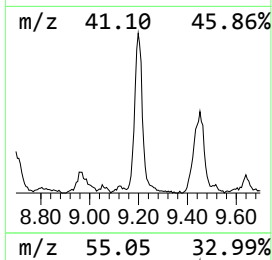
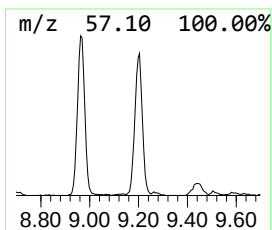
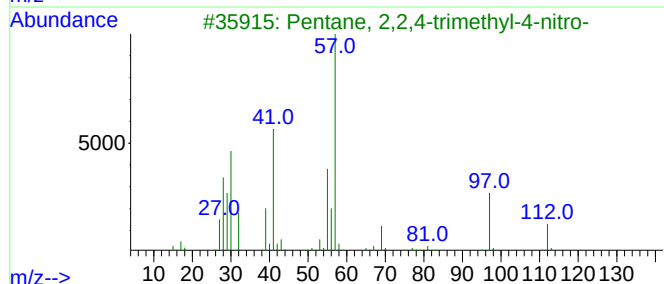
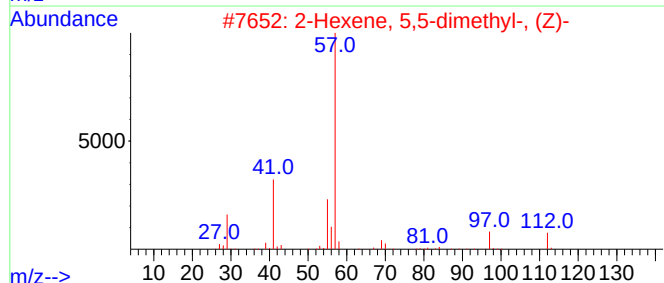
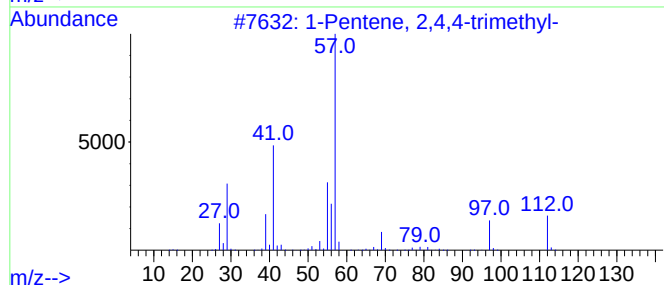
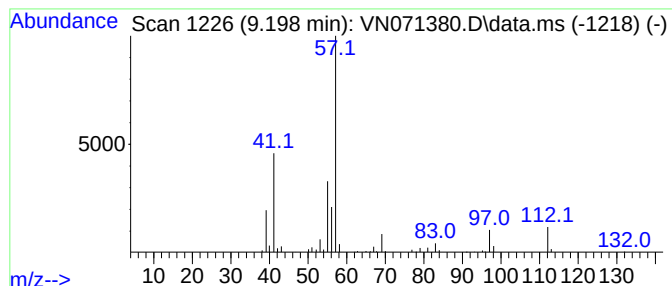
\*\*\*\*\*

Peak Number 5 1-Pentene, 2,4,4-trimethyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 9.198 | 6.32 ug/l | 401806 | 1,4-Difluorobenzene | 8.963 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1-Pentene, 2,4,4-trimethyl-         | 112 | C8H16     | 000107-39-1  | 87   |
| 2    |    |   | 2-Hexene, 5,5-dimethyl-, (Z)-       | 112 | C8H16     | 039761-61-0  | 64   |
| 3    |    |   | Pentane, 2,2,4-trimethyl-4-nitro-   | 159 | C8H17NO2  | 005342-78-9  | 45   |
| 4    |    |   | 4-Amino-N-(tert-butylimino)-1,2,... | 185 | C6H11N5O2 | 1000387-03-9 | 40   |
| 5    |    |   | 1-Hexene, 5,5-dimethyl-             | 112 | C8H16     | 007116-86-1  | 33   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
Data File : VN071380.D  
Acq On : 18 Mar 2022 18:19  
Operator : JC\MD  
Sample : N2015-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |       |         |       |          | #                     | RT    | Resp    | Conc |
| Sulfur dioxide     | 2.228 | 18.3    | ug/l  | 1149360  | 1                     | 8.086 | 3142800 | 50.0 |
| Pentane, 2-methyl- | 5.145 | 15.7    | ug/l  | 986840   | 1                     | 8.086 | 3142800 | 50.0 |
| Pentane, 3-methyl- | 5.622 | 22.3    | ug/l  | 1404340  | 1                     | 8.086 | 3142800 | 50.0 |
| Cyclopentane, m... | 7.145 | 38.1    | ug/l  | 2394690  | 1                     | 8.086 | 3142800 | 50.0 |
| 1-Pentene, 2,4,... | 9.198 | 6.3     | ug/l  | 401806   | 2                     | 8.963 | 3178180 | 50.0 |