

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111023\  
 Data File : VN080048.D  
 Acq On : 10 Nov 2023 13:12  
 Operator : JC\MD  
 Sample : 05325-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 231108067-02-VOA

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\624N110823W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN080048.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         | 2.295       | 53            | 58          | 65           | rVB      | 224715         | 336978        | 4.29%           | 1.158%        |
| 2         | 4.424       | 410           | 420         | 435          | rBV      | 222932         | 696963        | 8.86%           | 2.395%        |
| 3         | 5.518       | 589           | 606         | 630          | rBV      | 1817278        | 6354155       | 80.81%          | 21.835%       |
| 4         | 7.435       | 918           | 932         | 948          | rBV      | 2794566        | 7862646       | 100.00%         | 27.018%       |
| 5         | 7.547       | 949           | 951         | 964          | rVB3     | 54739          | 142789        | 1.82%           | 0.491%        |
| 6         | 7.835       | 983           | 1000        | 1015         | rBV2     | 1291115        | 3590035       | 45.66%          | 12.336%       |
| 7         | 8.582       | 1113          | 1127        | 1136         | rBV2     | 241234         | 709016        | 9.02%           | 2.436%        |
| 8         | 8.659       | 1136          | 1140        | 1150         | rVB      | 61619          | 136619        | 1.74%           | 0.469%        |
| 9         | 9.106       | 1207          | 1216        | 1228         | rBV      | 469722         | 941301        | 11.97%          | 3.235%        |
| 10        | 10.447      | 1434          | 1444        | 1452         | rBV3     | 53763          | 118729        | 1.51%           | 0.408%        |
| 11        | 10.570      | 1456          | 1465        | 1471         | rBV      | 738247         | 1330883       | 16.93%          | 4.573%        |
| 12        | 10.635      | 1471          | 1476        | 1477         | rBV      | 62421          | 80167         | 1.02%           | 0.275%        |
| 13        | 11.176      | 1557          | 1568        | 1578         | rVV      | 184555         | 376589        | 4.79%           | 1.294%        |
| 14        | 11.776      | 1662          | 1670        | 1676         | rVV5     | 36327          | 105023        | 1.34%           | 0.361%        |
| 15        | 11.870      | 1676          | 1686        | 1694         | rVV      | 638693         | 1253960       | 15.95%          | 4.309%        |
| 16        | 11.970      | 1694          | 1703        | 1709         | rVV2     | 100454         | 254093        | 3.23%           | 0.873%        |
| 17        | 12.070      | 1709          | 1720        | 1730         | rVV2     | 159583         | 376791        | 4.79%           | 1.295%        |
| 18        | 12.400      | 1769          | 1776        | 1783         | rBV      | 127356         | 224368        | 2.85%           | 0.771%        |
| 19        | 12.853      | 1845          | 1853        | 1861         | rVV      | 461257         | 830114        | 10.56%          | 2.852%        |
| 20        | 12.964      | 1861          | 1872        | 1880         | rVB10    | 29409          | 109696        | 1.40%           | 0.377%        |
| 21        | 13.194      | 1902          | 1911        | 1919         | rBV3     | 132965         | 266169        | 3.39%           | 0.915%        |
| 22        | 13.341      | 1927          | 1936        | 1946         | rVB4     | 28305          | 84007         | 1.07%           | 0.289%        |
| 23        | 13.482      | 1946          | 1960        | 1966         | rBV2     | 56789          | 149617        | 1.90%           | 0.514%        |
| 24        | 13.611      | 1974          | 1982        | 1988         | rBV2     | 81401          | 162680        | 2.07%           | 0.559%        |
| 25        | 13.817      | 2012          | 2017        | 2020         | rBV2     | 72712          | 129086        | 1.64%           | 0.444%        |
| 26        | 13.859      | 2020          | 2024        | 2036         | rVB3     | 107328         | 234440        | 2.98%           | 0.806%        |
| 27        | 14.000      | 2042          | 2048        | 2061         | rVB      | 50382          | 124384        | 1.58%           | 0.427%        |
| 28        | 14.253      | 2083          | 2091        | 2096         | rBV3     | 100006         | 206177        | 2.62%           | 0.708%        |
| 29        | 14.300      | 2096          | 2099        | 2108         | rVB2     | 50573          | 97679         | 1.24%           | 0.336%        |
| 30        | 14.453      | 2113          | 2125        | 2132         | rBV7     | 57401          | 145806        | 1.85%           | 0.501%        |
| 31        | 14.676      | 2151          | 2163        | 2177         | rBV      | 889957         | 1670458       | 21.25%          | 5.740%        |

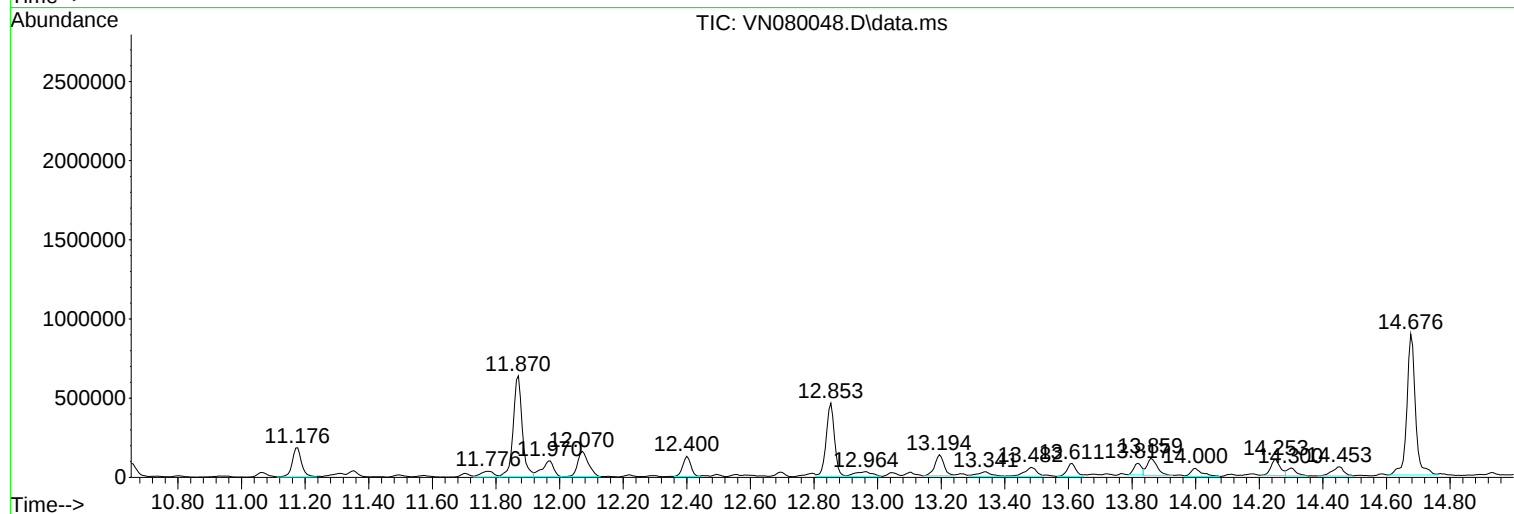
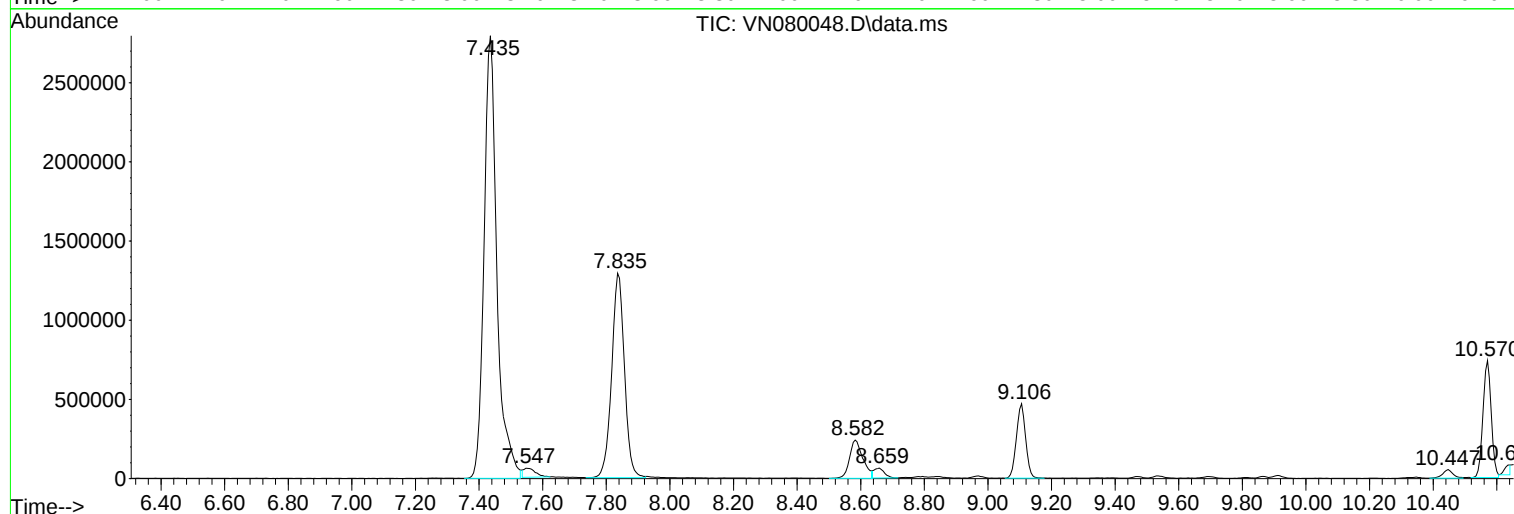
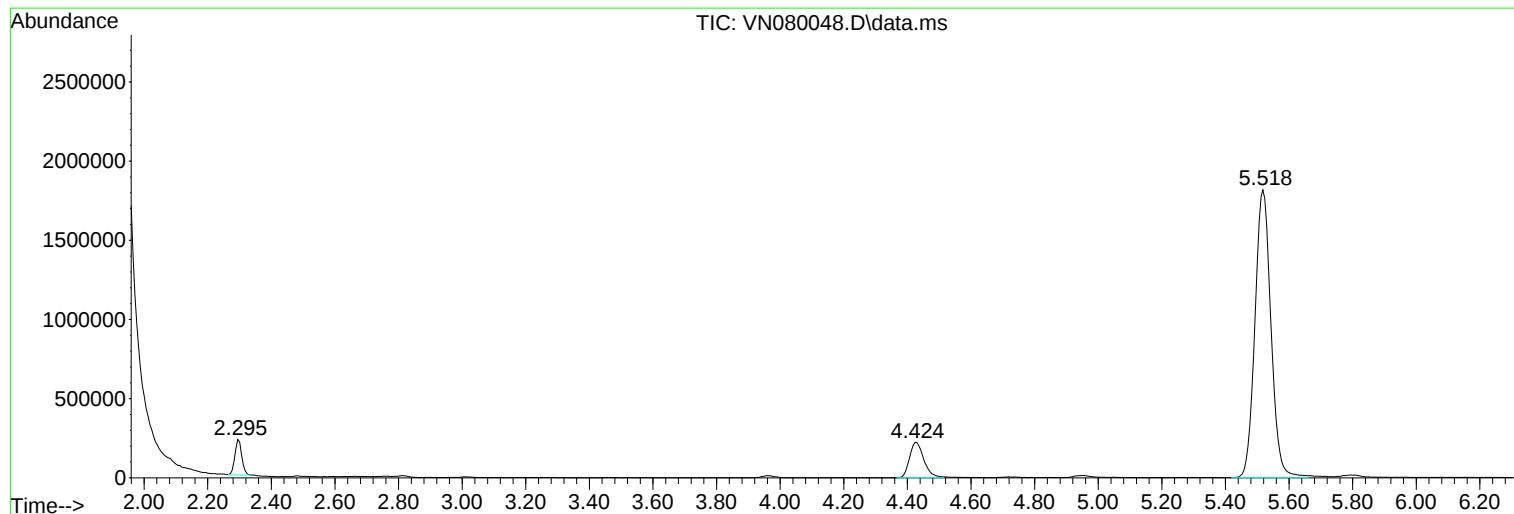
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



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Operator : JC\MD  
Sample : 05325-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

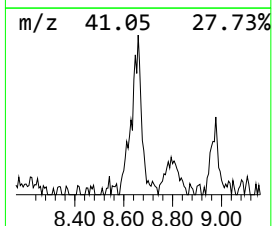
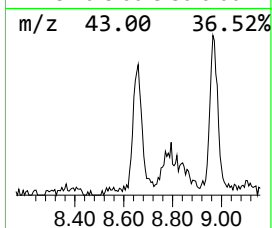
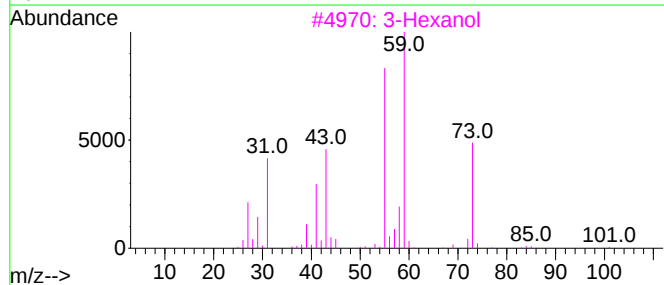
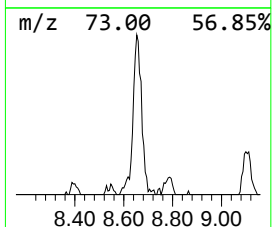
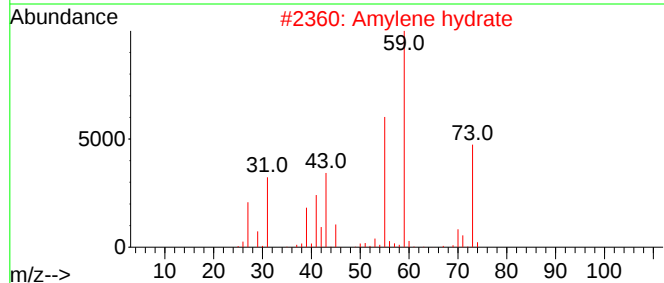
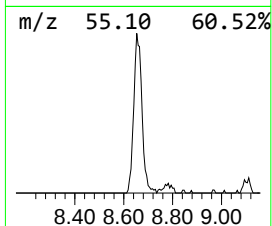
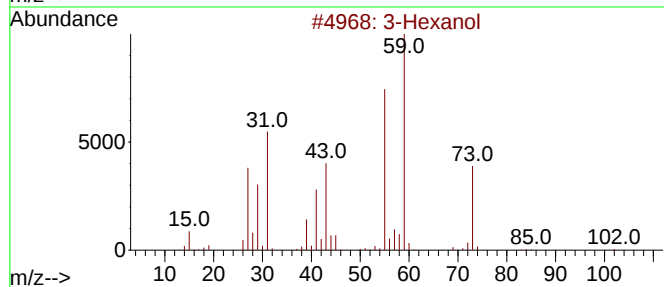
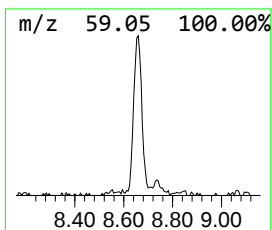
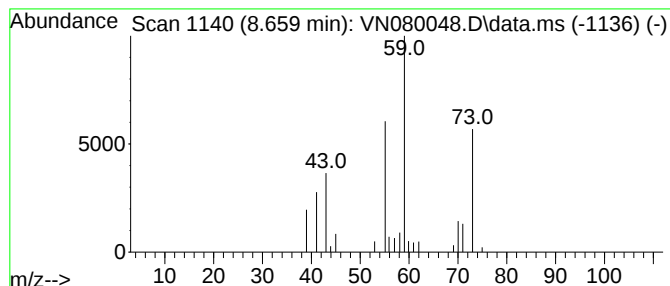
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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Peak Number 1 3-Hexanol Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 8.659 | 4.35 ug/l | 136619 | 1,4-Difluorobenzene | 9.106 |

| Hit# | of              | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|-----|---------|-------------|------|
| 1    | 3-Hexanol       |   |              | 102 | C6H14O  | 000623-37-0 | 72   |
| 2    | Amylene hydrate |   |              | 88  | C5H12O  | 000075-85-4 | 64   |
| 3    | 3-Hexanol       |   |              | 102 | C6H14O  | 000623-37-0 | 53   |
| 4    | 3-Hexanol       |   |              | 102 | C6H14O  | 000623-37-0 | 50   |
| 5    | 3-Hexanol       |   |              | 102 | C6H14O  | 000623-37-0 | 50   |



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Sample : 05325-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

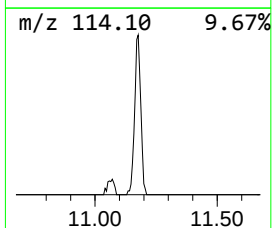
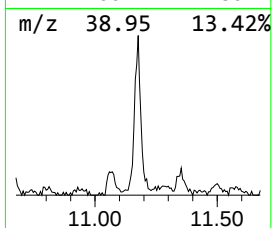
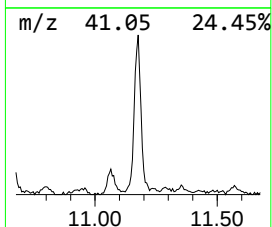
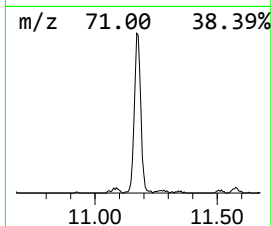
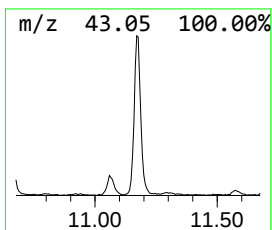
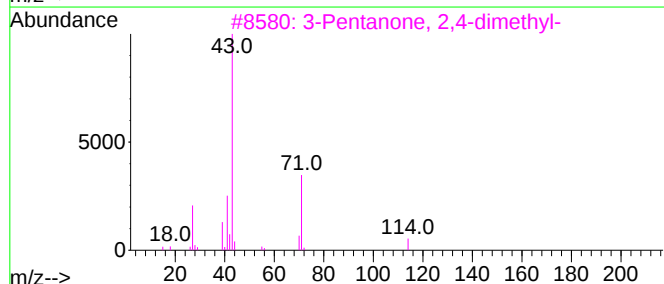
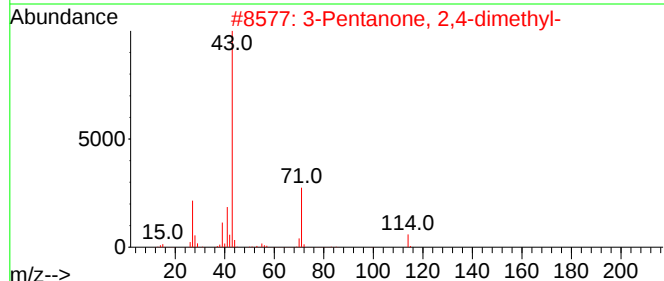
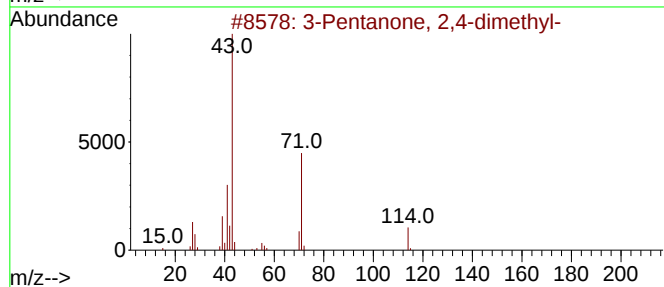
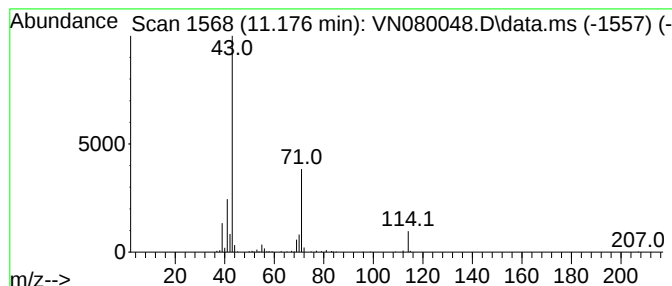
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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Peak Number 2 3-Pentanone, 2,4-dimethyl- Concentration Rank 2

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.176 | 9.01 ug/l | 376589 | Chlorobenzene-d5 | 11.870 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O  | 000565-80-0 | 87   |
| 2    |    |   | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O  | 000565-80-0 | 86   |
| 3    |    |   | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O  | 000565-80-0 | 86   |
| 4    |    |   | 2,3-Hexanedione            | 114 | C6H10O2 | 003848-24-6 | 64   |
| 5    |    |   | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O  | 000565-80-0 | 64   |



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Sample : 05325-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

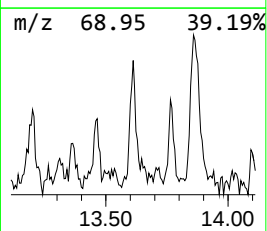
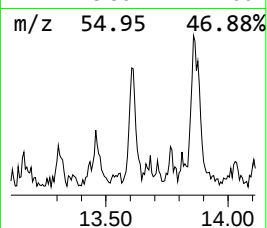
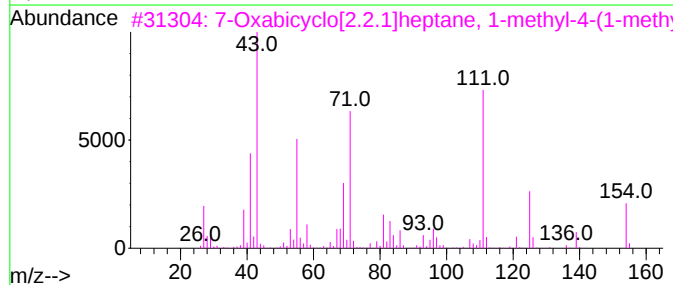
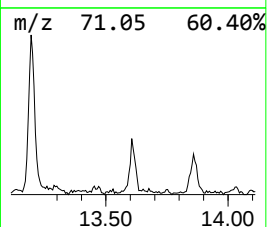
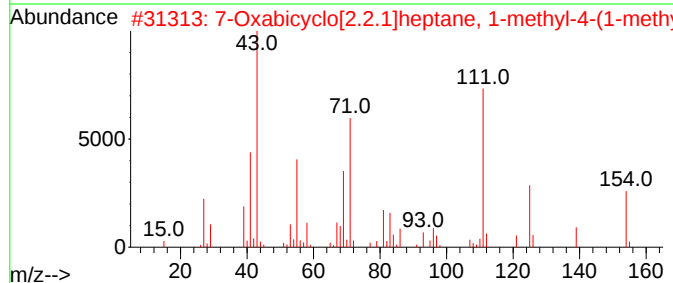
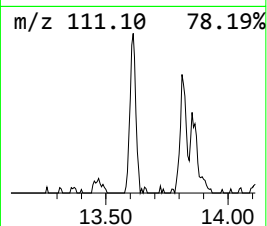
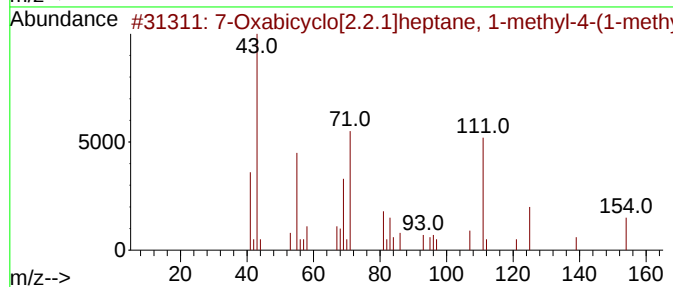
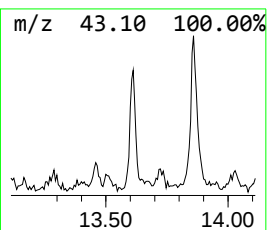
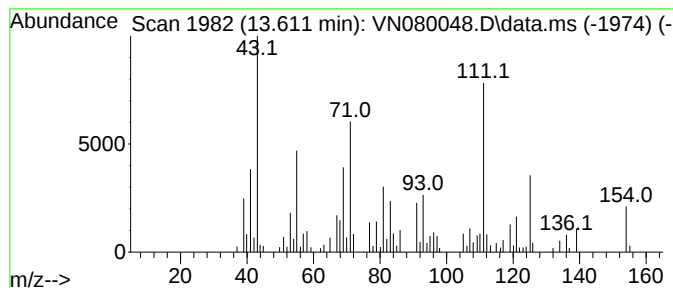
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

\*\*\*\*\*  
Peak Number 3 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 5

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 13.611 | 3.89 ug/l | 162680 | Chlorobenzene-d5 | 11.870 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 93   |
| 2    |    |   | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 81   |
| 3    |    |   | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 81   |
| 4    |    |   | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 80   |
| 5    |    |   | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 68   |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

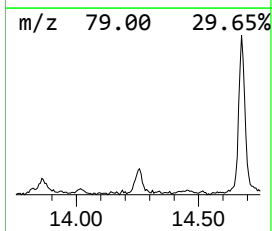
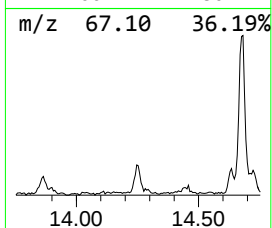
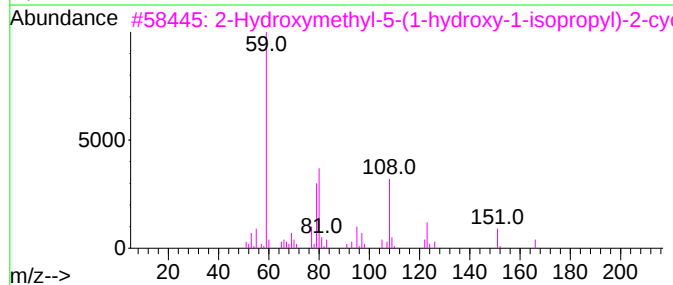
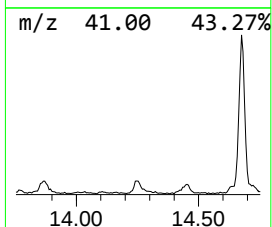
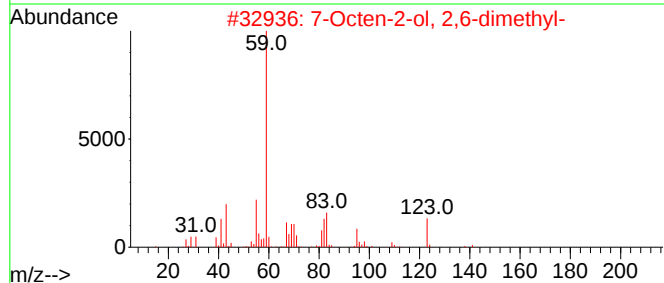
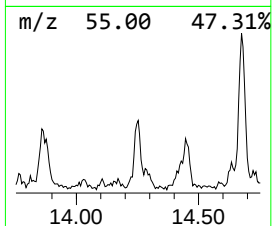
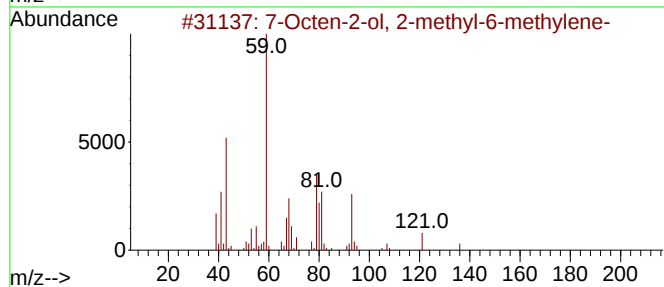
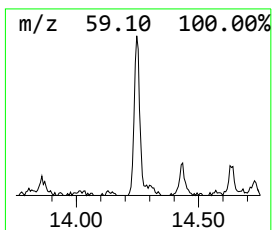
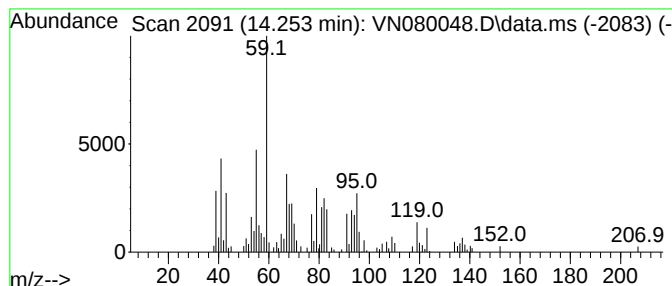
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

\*\*\*\*\*  
Peak Number 4 unknown14.253 Concentration Rank 3

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 14.253 | 4.93 ug/l | 206177 | Chlorobenzene-d5 | 11.870 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 7-Octen-2-ol, 2-methyl-6-methylene- | 154 | C10H18O  | 000543-39-5  | 43   |
| 2    |    |   | 7-Octen-2-ol, 2,6-dimethyl-         | 156 | C10H20O  | 018479-58-8  | 38   |
| 3    |    |   | 2-Hydroxymethyl-5-(1-hydroxy-1-i... | 184 | C10H16O3 | 097762-06-6  | 37   |
| 4    |    |   | Cyclopentanemethanol, .alpha.,a...  | 128 | C8H16O   | 001462-06-2  | 37   |
| 5    |    |   | 2-Methyl-tridecane-2,12-diol        | 230 | C14H30O2 | 1000187-03-5 | 32   |



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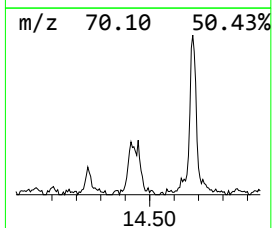
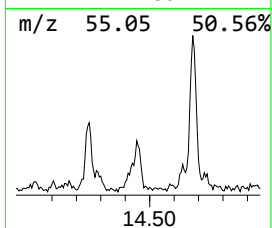
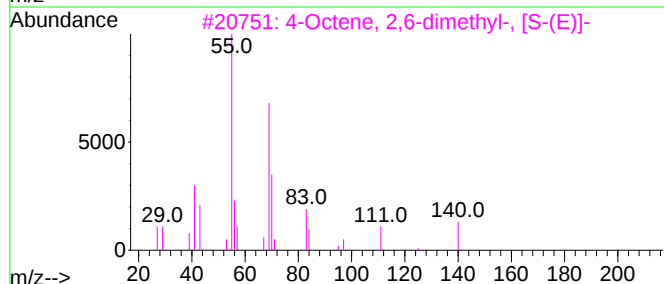
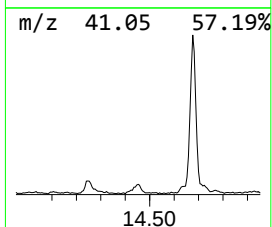
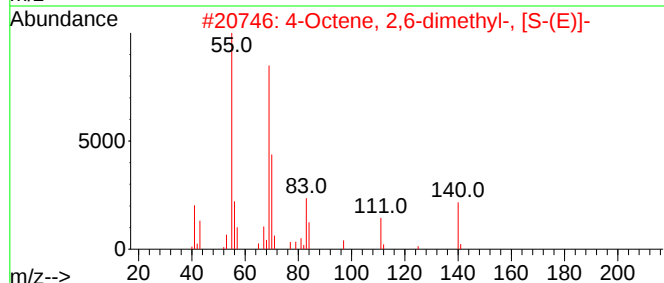
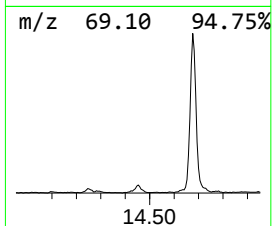
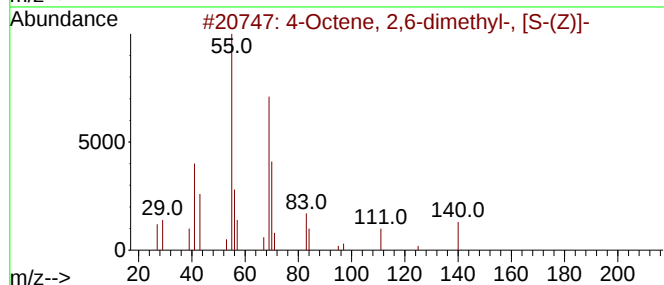
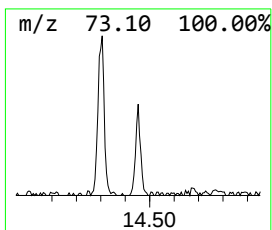
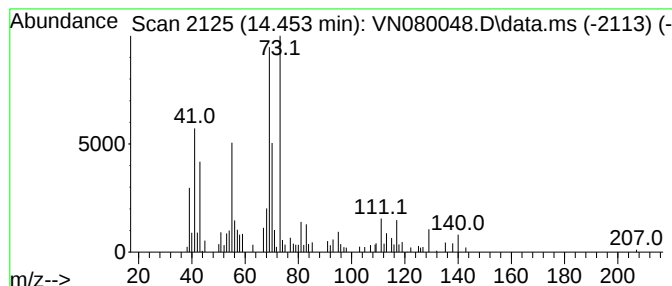
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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Peak Number 5 4-Octene, 2,6-dimethyl-, [S... Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 14.453 | 3.49 ug/l | 145806 | Chlorobenzene-d5 | 11.870 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 4-Octene, 2,6-dimethyl-, [S-(Z)]- | 140 | C10H20  | 062960-77-4 | 58   |
| 2    |    |   | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20  | 062960-76-3 | 52   |
| 3    |    |   | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20  | 062960-76-3 | 52   |
| 4    |    |   | 2-Octene, 2,6-dimethyl-           | 140 | C10H20  | 004057-42-5 | 47   |
| 5    |    |   | 1-Hexene, 3,3-dimethyl-           | 112 | C8H16   | 003404-77-1 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111023\  
Data File : VN080048.D  
Acq On : 10 Nov 2023 13:12  
Operator : JC\MD  
Sample : 05325-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

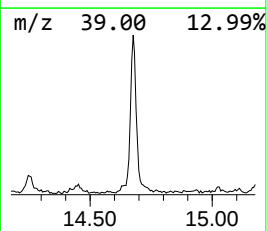
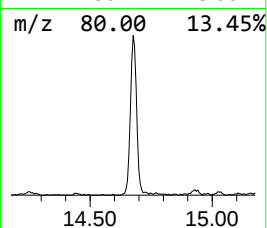
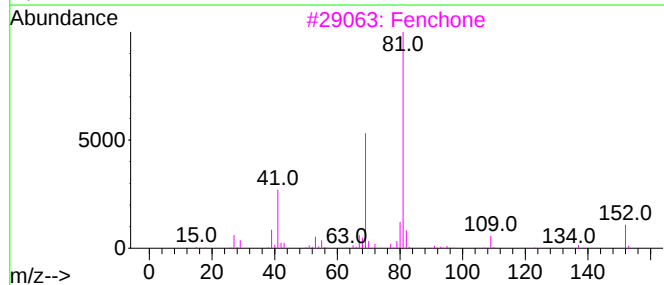
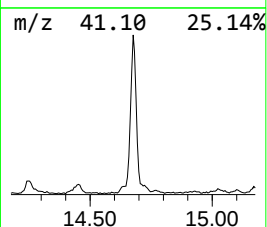
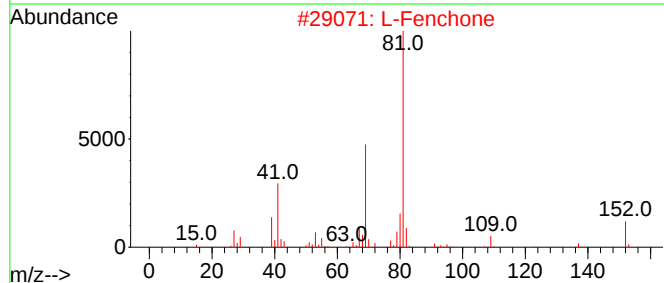
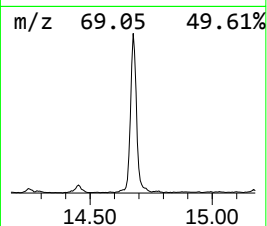
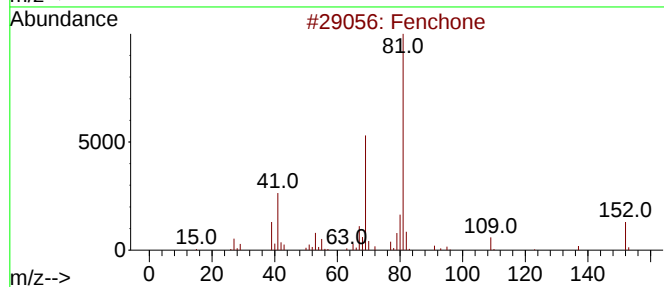
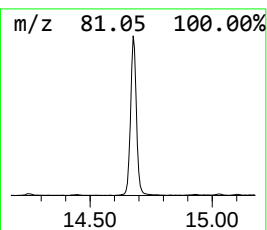
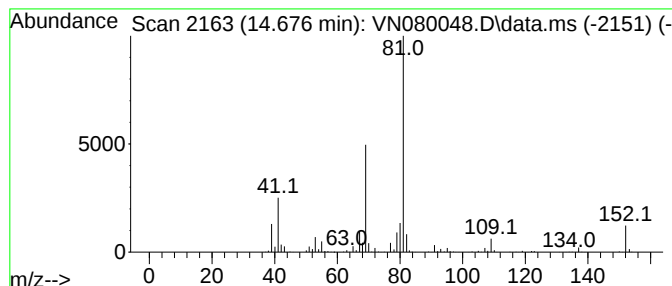
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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Peak Number 6 Fenchone Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 14.676 | 39.96 ug/l | 1670460 | Chlorobenzene-d5 | 11.870 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Fenchone     | 152 | C10H16O | 001195-79-5 | 95   |
| 2    |    |   | L-Fenchone   | 152 | C10H16O | 007787-20-4 | 94   |
| 3    |    |   | Fenchone     | 152 | C10H16O | 001195-79-5 | 94   |
| 4    |    |   | L-Fenchone   | 152 | C10H16O | 007787-20-4 | 93   |
| 5    |    |   | Fenchone     | 152 | C10H16O | 001195-79-5 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111023\  
Data File : VN080048.D  
Acq On : 10 Nov 2023 13:12  
Operator : JC\MD  
Sample : 05325-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
231108067-02-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| 3-Hexanol          | 8.659  | 4.3     | ug/l  | 136619   | 2                     | 9.106  | 941301  | 30.0 |
| 3-Pentanone, 2,... | 11.176 | 9.0     | ug/l  | 376589   | 3                     | 11.870 | 1253960 | 30.0 |
| 7-Oxabicyclo[2.... | 13.611 | 3.9     | ug/l  | 162680   | 3                     | 11.870 | 1253960 | 30.0 |
| unknown14.253      | 14.253 | 4.9     | ug/l  | 206177   | 3                     | 11.870 | 1253960 | 30.0 |
| 4-Octene, 2,6-d... | 14.453 | 3.5     | ug/l  | 145806   | 3                     | 11.870 | 1253960 | 30.0 |
| Fenchone           | 14.676 | 40.0    | ug/l  | 1670460  | 3                     | 11.870 | 1253960 | 30.0 |