

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070925\  
 Data File : VW031774.D  
 Acq On : 09 Jul 2025 14:34  
 Operator : SY/MD  
 Sample : Q2526-04  
 Misc : 4.70g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LAW-25-0102

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\_W\Method\82W063025S.M  
 Title : SW846 8260

Signal : TIC: VW031774.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         | 4.161       | 364           | 373         | 382          | rBV      | 107719         | 330532        | 17.26%          | 2.859%        |
| 2         | 4.960       | 491           | 504         | 521          | rBV3     | 86633          | 327739        | 17.11%          | 2.835%        |
| 3         | 5.972       | 659           | 670         | 681          | rBV2     | 17894          | 54486         | 2.85%           | 0.471%        |
| 4         | 7.197       | 863           | 871         | 892          | rBV      | 38387          | 111775        | 5.84%           | 0.967%        |
| 5         | 7.904       | 977           | 987         | 991          | rBV      | 174696         | 410765        | 21.45%          | 3.553%        |
| 6         | 7.965       | 991           | 997         | 1015         | rVB      | 279516         | 656390        | 34.28%          | 5.678%        |
| 7         | 8.319       | 1045          | 1055        | 1069         | rBV      | 177602         | 406232        | 21.21%          | 3.514%        |
| 8         | 8.856       | 1133          | 1143        | 1153         | rBV      | 476262         | 967806        | 50.54%          | 8.371%        |
| 9         | 10.331      | 1375          | 1385        | 1392         | rBV      | 693681         | 1256354       | 65.61%          | 10.867%       |
| 10        | 10.392      | 1392          | 1395        | 1402         | rVV      | 19695          | 38402         | 2.01%           | 0.332%        |
| 11        | 10.508      | 1406          | 1414        | 1421         | rVB4     | 11115          | 22082         | 1.15%           | 0.191%        |
| 12        | 11.629      | 1590          | 1598        | 1607         | rBV      | 666846         | 1172077       | 61.21%          | 10.138%       |
| 13        | 11.843      | 1627          | 1633        | 1646         | rVB2     | 11528          | 25770         | 1.35%           | 0.223%        |
| 14        | 12.367      | 1714          | 1719        | 1725         | rVB2     | 12533          | 22099         | 1.15%           | 0.191%        |
| 15        | 12.471      | 1725          | 1736        | 1747         | rBV      | 1158354        | 1914974       | 100.00%         | 16.564%       |
| 16        | 12.617      | 1753          | 1760        | 1767         | rBV      | 486393         | 782424        | 40.86%          | 6.768%        |
| 17        | 12.721      | 1767          | 1777        | 1784         | rVB      | 152920         | 274321        | 14.33%          | 2.373%        |
| 18        | 12.952      | 1807          | 1815        | 1820         | rBV2     | 56852          | 104997        | 5.48%           | 0.908%        |
| 19        | 13.025      | 1820          | 1827        | 1835         | rVB      | 452285         | 748286        | 39.08%          | 6.472%        |
| 20        | 13.269      | 1860          | 1867        | 1877         | rVB2     | 75611          | 153901        | 8.04%           | 1.331%        |
| 21        | 13.464      | 1892          | 1899        | 1902         | rBV      | 141105         | 247900        | 12.95%          | 2.144%        |
| 22        | 13.556      | 1908          | 1914        | 1922         | rVV      | 779357         | 1199085       | 62.62%          | 10.372%       |
| 23        | 13.708      | 1935          | 1939        | 1943         | rBV2     | 15910          | 23514         | 1.23%           | 0.203%        |
| 24        | 14.056      | 1992          | 1996        | 2008         | rVB3     | 11923          | 24746         | 1.29%           | 0.214%        |
| 25        | 14.428      | 2052          | 2057        | 2064         | rBV4     | 12923          | 25424         | 1.33%           | 0.220%        |
| 26        | 14.586      | 2078          | 2083        | 2095         | rBV      | 34696          | 64985         | 3.39%           | 0.562%        |
| 27        | 15.062      | 2153          | 2161        | 2168         | rBV3     | 18962          | 44265         | 2.31%           | 0.383%        |
| 28        | 15.147      | 2169          | 2175        | 2181         | rVB10    | 7678           | 21975         | 1.15%           | 0.190%        |
| 29        | 15.482      | 2224          | 2230        | 2236         | rBV      | 17966          | 35011         | 1.83%           | 0.303%        |
| 30        | 15.994      | 2309          | 2314        | 2317         | rBV3     | 12968          | 25507         | 1.33%           | 0.221%        |
| 31        | 16.129      | 2332          | 2336        | 2340         | rVV3     | 11321          | 19393         | 1.01%           | 0.168%        |
| 32        | 16.214      | 2344          | 2350        | 2357         | rVB5     | 12264          | 23614         | 1.23%           | 0.204%        |
| 33        | 16.482      | 2389          | 2394        | 2404         | rVB2     | 12111          | 24258         | 1.27%           | 0.210%        |

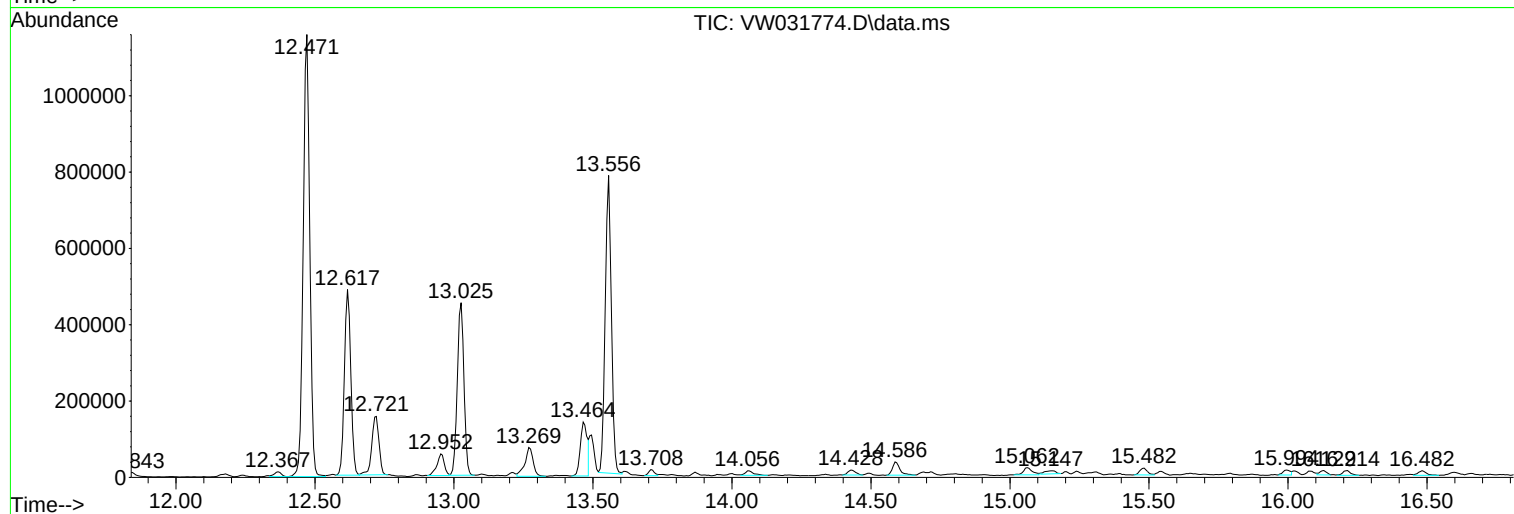
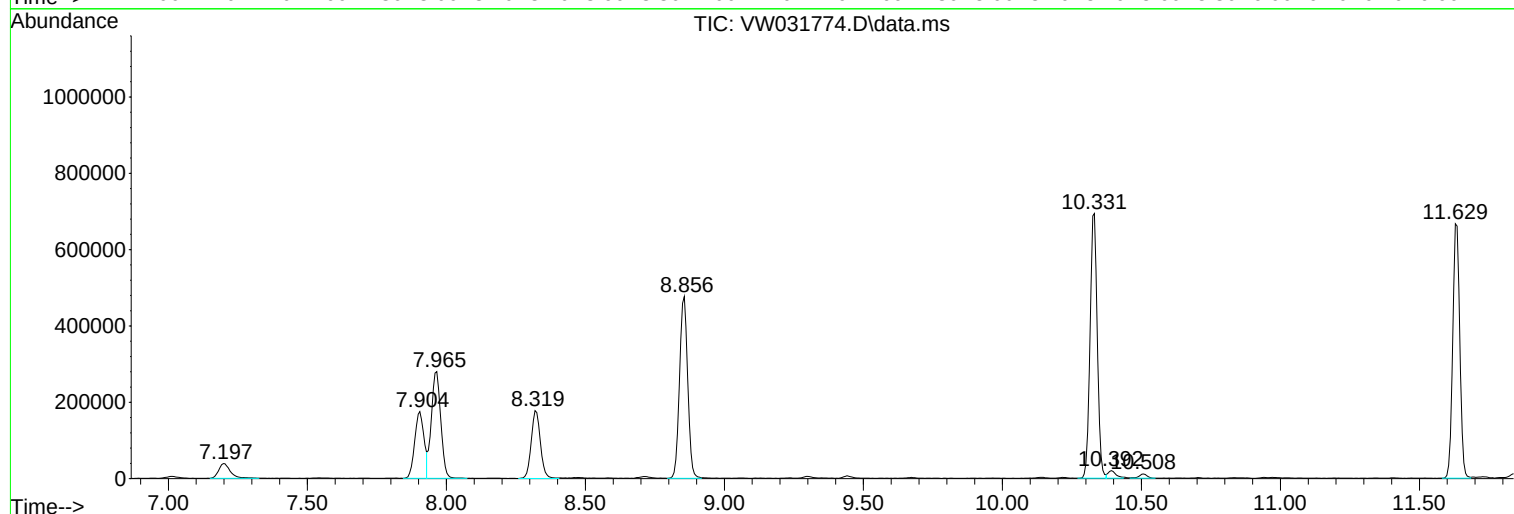
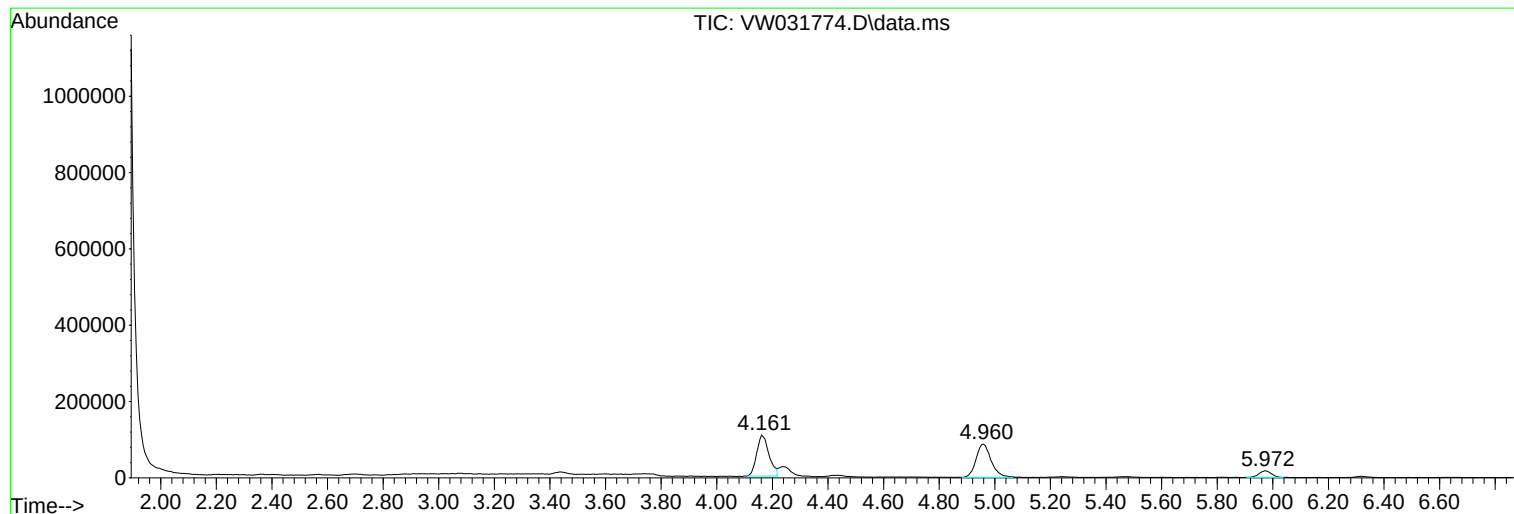
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Sample : Q2526-04  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
LAW-25-0102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W063025S.M  
Quant Title : SW846 8260

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



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Instrument :  
MSVOA\_W  
ClientSampleId :  
LAW-25-0102

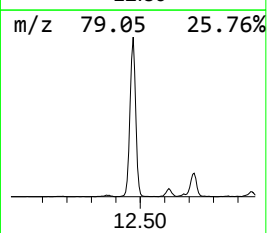
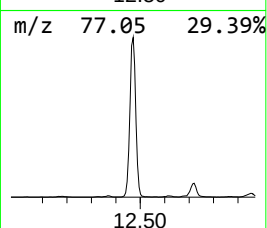
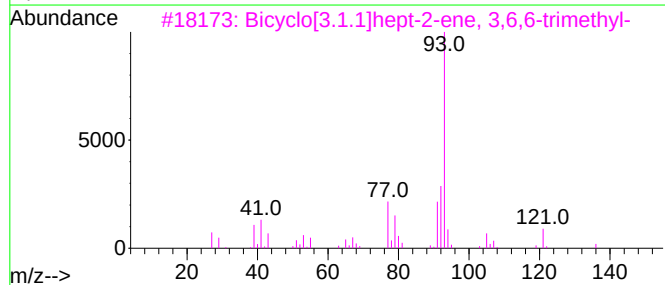
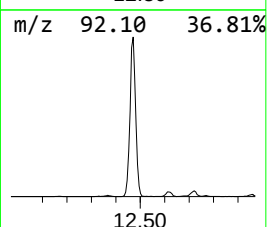
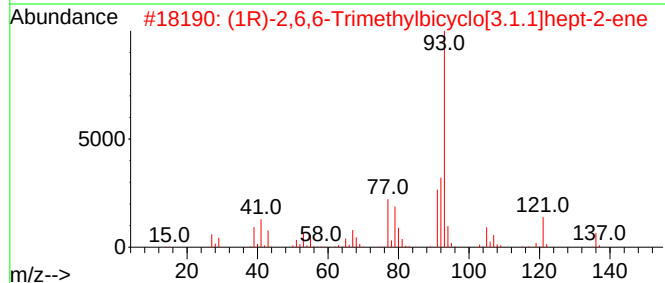
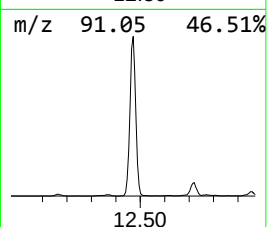
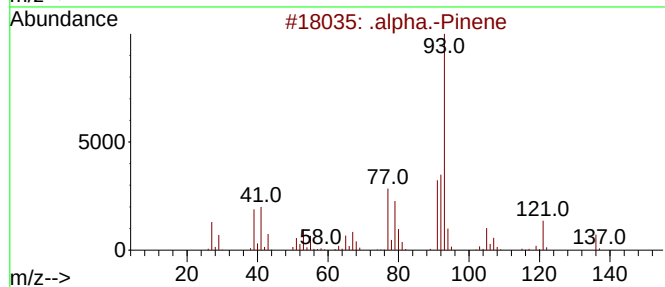
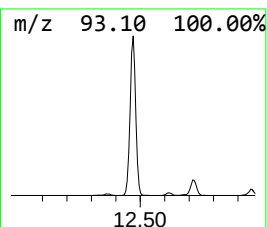
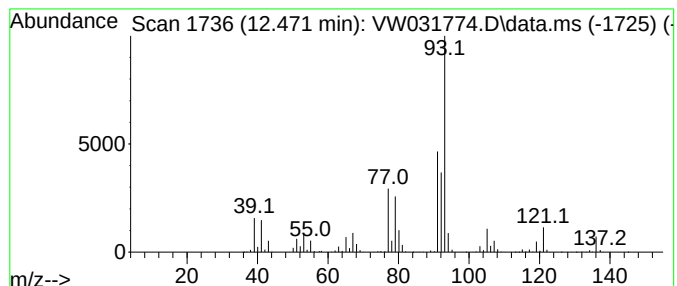
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W063025S.M  
Quant Title : SW846 8260

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

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Peak Number 1 .alpha.-Pinene Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 12.471 | 81.69 ug/l | 1914970 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                                                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------------------------------------|-----|---------|-------------|------|
| 1    |    |   | .alpha.-Pinene                                                 | 136 | C10H16  | 000080-56-8 | 97   |
| 2    |    |   | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl- | 136 | C10H16  | 007785-70-8 | 94   |
| 3    |    |   | Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-                     | 136 | C10H16  | 004889-83-2 | 91   |
| 4    |    |   | (+)-4-Carene                                                   | 136 | C10H16  | 029050-33-7 | 90   |
| 5    |    |   | .gamma.-Terpinene                                              | 136 | C10H16  | 000099-85-4 | 90   |



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MSVOA\_W  
ClientSampleId :  
LAW-25-0102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W063025S.M  
Quant Title : SW846 8260

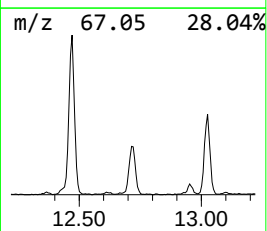
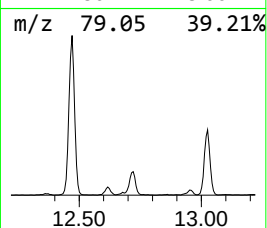
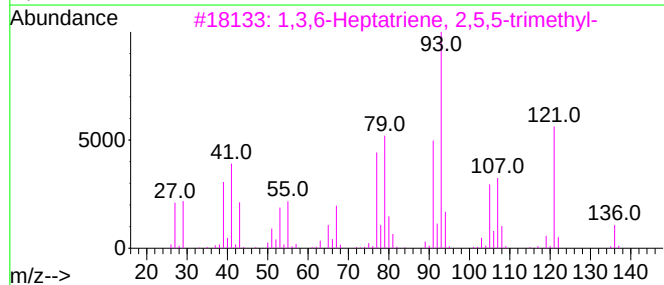
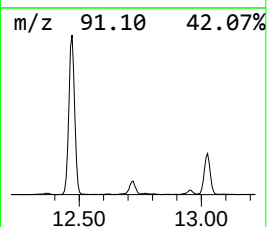
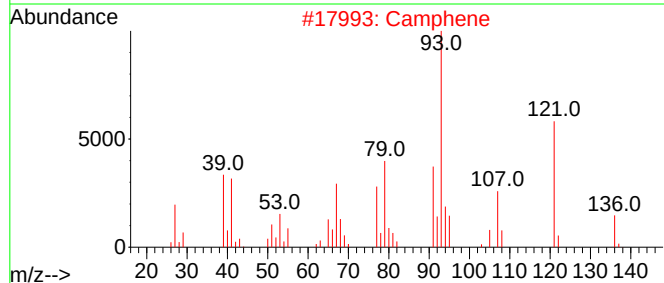
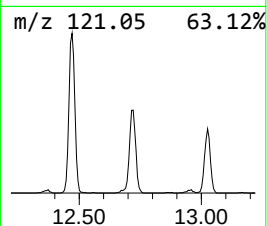
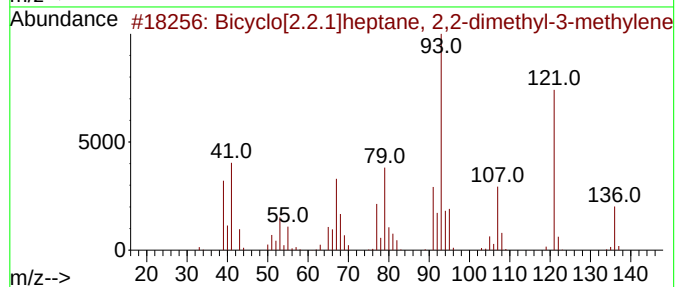
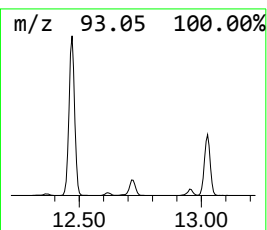
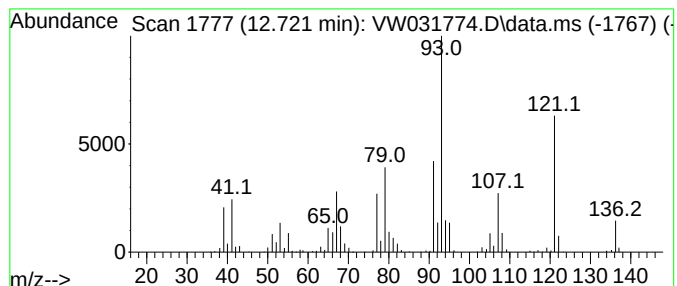
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.721 | 11.44 ug/l | 274321 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16  | 005794-04-7 | 97   |
| 2    |    |   | Camphene                            | 136 | C10H16  | 000079-92-5 | 97   |
| 3    |    |   | 1,3,6-Heptatriene, 2,5,5-trimethyl- | 136 | C10H16  | 029548-02-5 | 91   |
| 4    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 87   |
| 5    |    |   | Bicyclo[2.2.1]hept-2-ene, 1,7,7-... | 136 | C10H16  | 000464-17-5 | 87   |



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Sample : Q2526-04  
Misc : 4.70g/5mL/MSVOA\_W/SOIL/A  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
LAW-25-0102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W063025S.M  
Quant Title : SW846 8260

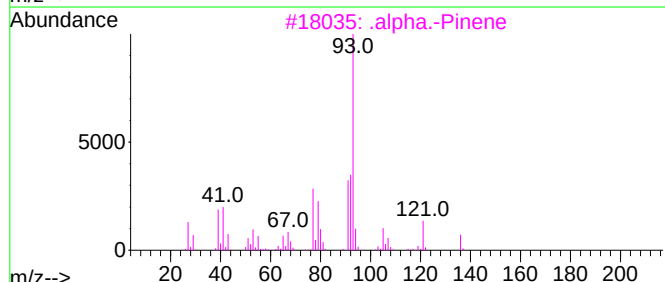
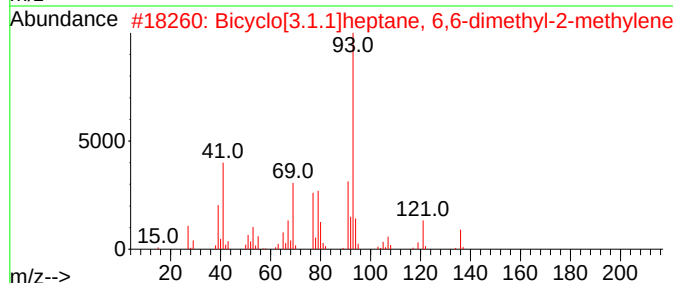
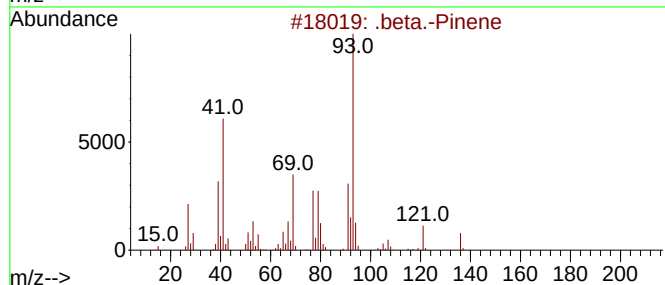
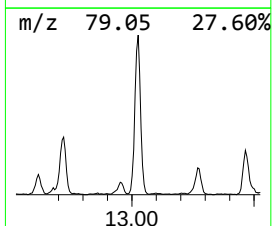
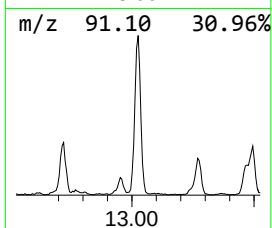
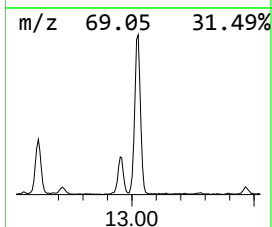
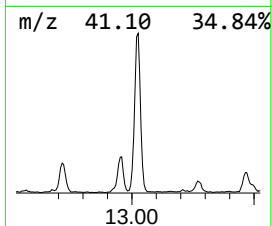
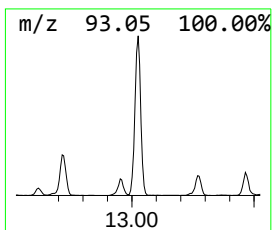
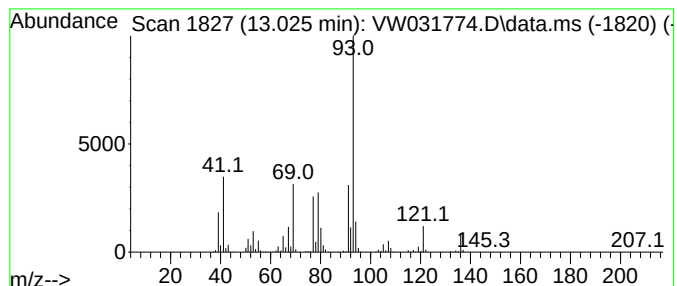
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 .beta.-Pinene Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.025 | 31.20 ug/l | 748286 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of                                  | 5 | Tentative ID  | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------------|---|---------------|-----|---------|-------------|------|
| 1    | .                                   |   | .beta.-Pinene | 136 | C10H16  | 000127-91-3 | 97   |
| 2    | Bicyclo[3.1.1]heptane, 6,6-dimet... |   |               | 136 | C10H16  | 018172-67-3 | 96   |
| 3    | .alpha.-Pinene                      |   |               | 136 | C10H16  | 000080-56-8 | 91   |
| 4    | Cyclohexene, 4-methylene-1-(1-me... |   |               | 136 | C10H16  | 000099-84-3 | 91   |
| 5    | Bicyclo[3.1.0]hexane, 4-methylen... |   |               | 136 | C10H16  | 003387-41-5 | 87   |



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Instrument :  
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ClientSampleId :  
LAW-25-0102

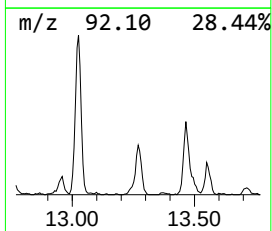
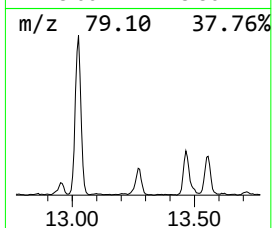
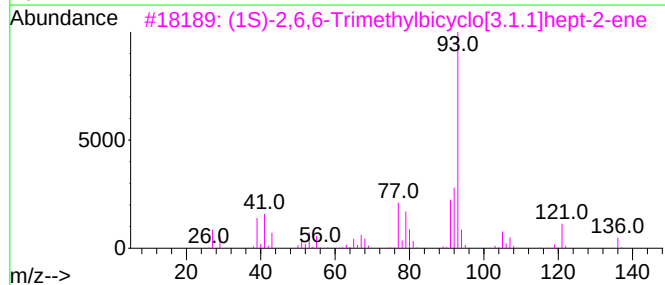
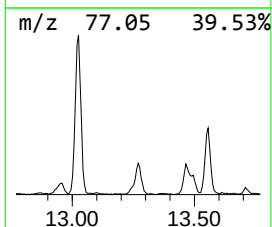
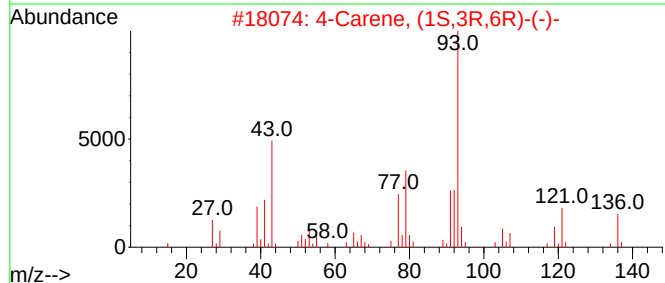
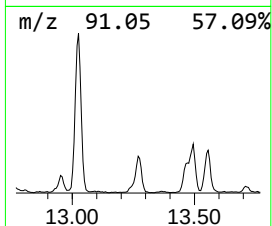
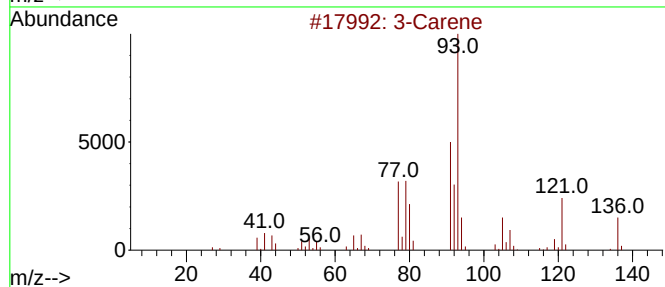
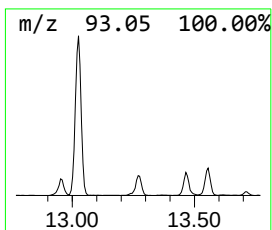
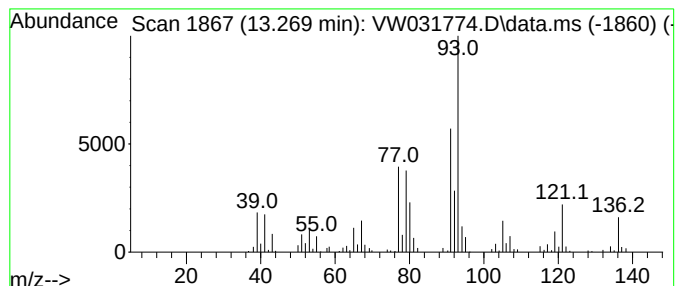
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W063025S.M  
Quant Title : SW846 8260

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

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Peak Number 4 3-Carene Concentration Rank 4

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.269 | 6.42 ug/l | 153901 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 3-Carene                            | 136 | C10H16  | 013466-78-9 | 96   |
| 2    |    |   | 4-Carene, (1S,3R,6R)-(-)-           | 136 | C10H16  | 005208-49-1 | 93   |
| 3    |    |   | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-26-4 | 90   |
| 4    |    |   | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 90   |
| 5    |    |   | (+)-3-Carene                        | 136 | C10H16  | 000498-15-7 | 90   |



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| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| .alpha.-Pinene     | 12.471 | 81.7    | ug/l  | 1914970  | 3                     | 11.629 | 1172080 | 50.0 |
| Bicyclo[2.2.1]h... | 12.721 | 11.4    | ug/l  | 274321   | 4                     | 13.556 | 1199090 | 50.0 |
| .beta.-Pinene      | 13.025 | 31.2    | ug/l  | 748286   | 4                     | 13.556 | 1199090 | 50.0 |
| 3-Carene           | 13.269 | 6.4     | ug/l  | 153901   | 4                     | 13.556 | 1199090 | 50.0 |