

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
 Data File : VW009260.D  
 Acq On : 20 Mar 2019 01:58  
 Operator : SY/VA  
 Sample : K1971-07  
 Misc : 3.29G/5ML/MSVOA W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-14(9-11)-031519

Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
 Title : SW846 8260

Signal : TIC

| 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         | 7.878       | 972           | 980         | 985          | rBV      | 75900          | 182373        | 12.65%          | 1.056%        |
| 2         | 7.945       | 985           | 991         | 999          | rVB      | 125168         | 283229        | 19.65%          | 1.640%        |
| 3         | 8.305       | 1041          | 1050        | 1059         | rVB      | 81701          | 182112        | 12.64%          | 1.055%        |
| 4         | 8.842       | 1130          | 1138        | 1148         | rBV      | 182306         | 365223        | 25.34%          | 2.115%        |
| 5         | 9.335       | 1213          | 1219        | 1223         | rVB6     | 7651           | 16382         | 1.14%           | 0.095%        |
| 6         | 10.323      | 1373          | 1381        | 1392         | rBV      | 300427         | 540630        | 37.51%          | 3.131%        |
| 7         | 10.488      | 1402          | 1408        | 1416         | rBV6     | 7356           | 18159         | 1.26%           | 0.105%        |
| 8         | 10.664      | 1432          | 1437        | 1441         | rBV6     | 13181          | 22055         | 1.53%           | 0.128%        |
| 9         | 10.756      | 1446          | 1452        | 1459         | rVV8     | 21494          | 50474         | 3.50%           | 0.292%        |
| 10        | 10.933      | 1473          | 1481        | 1488         | rVB2     | 19177          | 34984         | 2.43%           | 0.203%        |
| 11        | 11.018      | 1488          | 1495        | 1507         | rBV5     | 50201          | 155536        | 10.79%          | 0.901%        |
| 12        | 11.183      | 1517          | 1522        | 1524         | rVV3     | 9512           | 16023         | 1.11%           | 0.093%        |
| 13        | 11.231      | 1525          | 1530        | 1535         | rVB5     | 19561          | 37328         | 2.59%           | 0.216%        |
| 14        | 11.280      | 1535          | 1538        | 1543         | rBV7     | 8836           | 15310         | 1.06%           | 0.089%        |
| 15        | 11.439      | 1559          | 1564        | 1566         | rBV3     | 20297          | 34711         | 2.41%           | 0.201%        |
| 16        | 11.469      | 1566          | 1569        | 1574         | rVB3     | 18048          | 24066         | 1.67%           | 0.139%        |
| 17        | 11.542      | 1579          | 1581        | 1589         | rVB5     | 11633          | 22118         | 1.53%           | 0.128%        |
| 18        | 11.628      | 1589          | 1595        | 1603         | rBV      | 254937         | 447850        | 31.07%          | 2.593%        |
| 19        | 11.768      | 1613          | 1618        | 1621         | rBV5     | 10230          | 15803         | 1.10%           | 0.092%        |
| 20        | 11.817      | 1621          | 1626        | 1631         | rBV3     | 64422          | 111926        | 7.77%           | 0.648%        |
| 21        | 11.878      | 1631          | 1636        | 1639         | rVB4     | 24427          | 39212         | 2.72%           | 0.227%        |
| 22        | 11.920      | 1639          | 1643        | 1647         | rVB4     | 15570          | 27753         | 1.93%           | 0.161%        |
| 23        | 12.018      | 1647          | 1659        | 1662         | rBV7     | 20165          | 61581         | 4.27%           | 0.357%        |
| 24        | 12.061      | 1662          | 1666        | 1669         | rBV4     | 20474          | 35529         | 2.47%           | 0.206%        |
| 25        | 12.103      | 1669          | 1673        | 1674         | rVV4     | 26291          | 38831         | 2.69%           | 0.225%        |
| 26        | 12.140      | 1674          | 1679        | 1685         | rVV5     | 89708          | 166744        | 11.57%          | 0.966%        |
| 27        | 12.189      | 1685          | 1687        | 1691         | rVB3     | 18527          | 20326         | 1.41%           | 0.118%        |
| 28        | 12.249      | 1691          | 1697        | 1702         | rVB2     | 71819          | 120828        | 8.38%           | 0.700%        |
| 29        | 12.335      | 1702          | 1711        | 1712         | rBV6     | 46491          | 119355        | 8.28%           | 0.691%        |
| 30        | 12.365      | 1712          | 1716        | 1723         | rVB7     | 68489          | 137751        | 9.56%           | 0.798%        |
| 31        | 12.524      | 1732          | 1742        | 1752         | rVB      | 361458         | 738113        | 51.21%          | 4.274%        |
| 32        | 12.621      | 1752          | 1758        | 1767         | rBV      | 225681         | 404437        | 28.06%          | 2.342%        |
| 33        | 12.707      | 1767          | 1772        | 1777         | rBV4     | 48435          | 88851         | 6.16%           | 0.515%        |
| 34        | 12.810      | 1781          | 1789        | 1794         | rBV6     | 64545          | 162686        | 11.29%          | 0.942%        |

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 ALS Vial : 35 Sample Multiplier: 1

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## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 12.859 | 1794 | 1797 | 1802 | rVB5 | 55066  | 85228   | 5.91%   | 0.494% |
| 36 | 12.945 | 1802 | 1811 | 1815 | rBV6 | 78610  | 231440  | 16.06%  | 1.340% |
| 37 | 12.999 | 1816 | 1820 | 1823 | rVB5 | 46634  | 68500   | 4.75%   | 0.397% |
| 38 | 13.048 | 1823 | 1828 | 1831 | rBV3 | 82851  | 145710  | 10.11%  | 0.844% |
| 39 | 13.133 | 1837 | 1842 | 1844 | rBV4 | 96216  | 158339  | 10.99%  | 0.917% |
| 40 | 13.170 | 1844 | 1848 | 1853 | rVV2 | 182040 | 326264  | 22.64%  | 1.889% |
| 41 | 13.231 | 1854 | 1858 | 1864 | rVB7 | 59209  | 131790  | 9.14%   | 0.763% |
| 42 | 13.298 | 1864 | 1869 | 1873 | rBV2 | 120645 | 187235  | 12.99%  | 1.084% |
| 43 | 13.341 | 1873 | 1876 | 1885 | rBV7 | 86199  | 161858  | 11.23%  | 0.937% |
| 44 | 13.420 | 1885 | 1889 | 1890 | rBV2 | 26977  | 36331   | 2.52%   | 0.210% |
| 45 | 13.444 | 1890 | 1893 | 1897 | rVV3 | 65071  | 100093  | 6.94%   | 0.580% |
| 46 | 13.487 | 1897 | 1900 | 1903 | rVV2 | 84365  | 105250  | 7.30%   | 0.609% |
| 47 | 13.524 | 1903 | 1906 | 1908 | rVV  | 56438  | 73818   | 5.12%   | 0.427% |
| 48 | 13.560 | 1908 | 1912 | 1920 | rVB  | 260554 | 440824  | 30.59%  | 2.553% |
| 49 | 13.627 | 1920 | 1923 | 1925 | rBV3 | 32830  | 46782   | 3.25%   | 0.271% |
| 50 | 13.700 | 1932 | 1935 | 1949 | rVB9 | 56969  | 156943  | 10.89%  | 0.909% |
| 51 | 13.822 | 1949 | 1955 | 1959 | rBV4 | 83663  | 164722  | 11.43%  | 0.954% |
| 52 | 13.883 | 1960 | 1965 | 1968 | rBV4 | 94968  | 176492  | 12.25%  | 1.022% |
| 53 | 13.920 | 1968 | 1971 | 1977 | rVB4 | 82634  | 123761  | 8.59%   | 0.717% |
| 54 | 13.987 | 1978 | 1982 | 1984 | rBV3 | 56817  | 86992   | 6.04%   | 0.504% |
| 55 | 14.030 | 1984 | 1989 | 1993 | rBV4 | 98856  | 180817  | 12.55%  | 1.047% |
| 56 | 14.133 | 2004 | 2006 | 2010 | rVB3 | 62660  | 80705   | 5.60%   | 0.467% |
| 57 | 14.188 | 2010 | 2015 | 2022 | rVB  | 598770 | 910142  | 63.15%  | 5.270% |
| 58 | 14.267 | 2022 | 2028 | 2031 | rBV4 | 97734  | 181445  | 12.59%  | 1.051% |
| 59 | 14.359 | 2038 | 2043 | 2045 | rBV2 | 118315 | 194826  | 13.52%  | 1.128% |
| 60 | 14.395 | 2045 | 2049 | 2053 | rVV3 | 223659 | 342565  | 23.77%  | 1.984% |
| 61 | 14.432 | 2053 | 2055 | 2058 | rVV3 | 34329  | 34279   | 2.38%   | 0.199% |
| 62 | 14.499 | 2063 | 2066 | 2070 | rVV3 | 109604 | 150516  | 10.44%  | 0.872% |
| 63 | 14.572 | 2070 | 2078 | 2087 | rVB6 | 170941 | 407775  | 28.29%  | 2.361% |
| 64 | 14.804 | 2110 | 2116 | 2119 | rBV5 | 197400 | 386680  | 26.83%  | 2.239% |
| 65 | 14.847 | 2119 | 2123 | 2129 | rVV  | 415199 | 867578  | 60.20%  | 5.024% |
| 66 | 14.908 | 2129 | 2133 | 2141 | rVB  | 889828 | 1441237 | 100.00% | 8.346% |
| 67 | 15.066 | 2154 | 2159 | 2164 | rVB3 | 211364 | 361493  | 25.08%  | 2.093% |
| 68 | 15.133 | 2165 | 2170 | 2171 | rBV3 | 146081 | 220818  | 15.32%  | 1.279% |
| 69 | 15.218 | 2181 | 2184 | 2188 | rVB4 | 95913  | 130774  | 9.07%   | 0.757% |
| 70 | 15.267 | 2189 | 2192 | 2198 | rVV2 | 124096 | 229080  | 15.89%  | 1.327% |
| 71 | 15.334 | 2198 | 2203 | 2210 | rVB  | 301421 | 553923  | 38.43%  | 3.208% |

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ALS Vial : 35 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SB-14(9-11)-031519

## 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\82W031919S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 15.749 | 2266 | 2271 | 2278 | rVB6 | 121341 | 280434  | 19.46% | 1.624% |
| 73 | 15.999 | 2307 | 2312 | 2318 | rVB2 | 171962 | 340129  | 23.60% | 1.970% |
| 74 | 16.224 | 2345 | 2349 | 2353 | rBV4 | 77812  | 135284  | 9.39%  | 0.783% |
| 75 | 16.298 | 2358 | 2361 | 2366 | rVV2 | 117400 | 233119  | 16.17% | 1.350% |
| 76 | 16.371 | 2369 | 2373 | 2379 | rVV2 | 253659 | 477465  | 33.13% | 2.765% |
| 77 | 16.432 | 2380 | 2383 | 2394 | rVB6 | 105566 | 234296  | 16.26% | 1.357% |
| 78 | 16.718 | 2422 | 2430 | 2441 | rVB6 | 425309 | 1146679 | 79.56% | 6.640% |

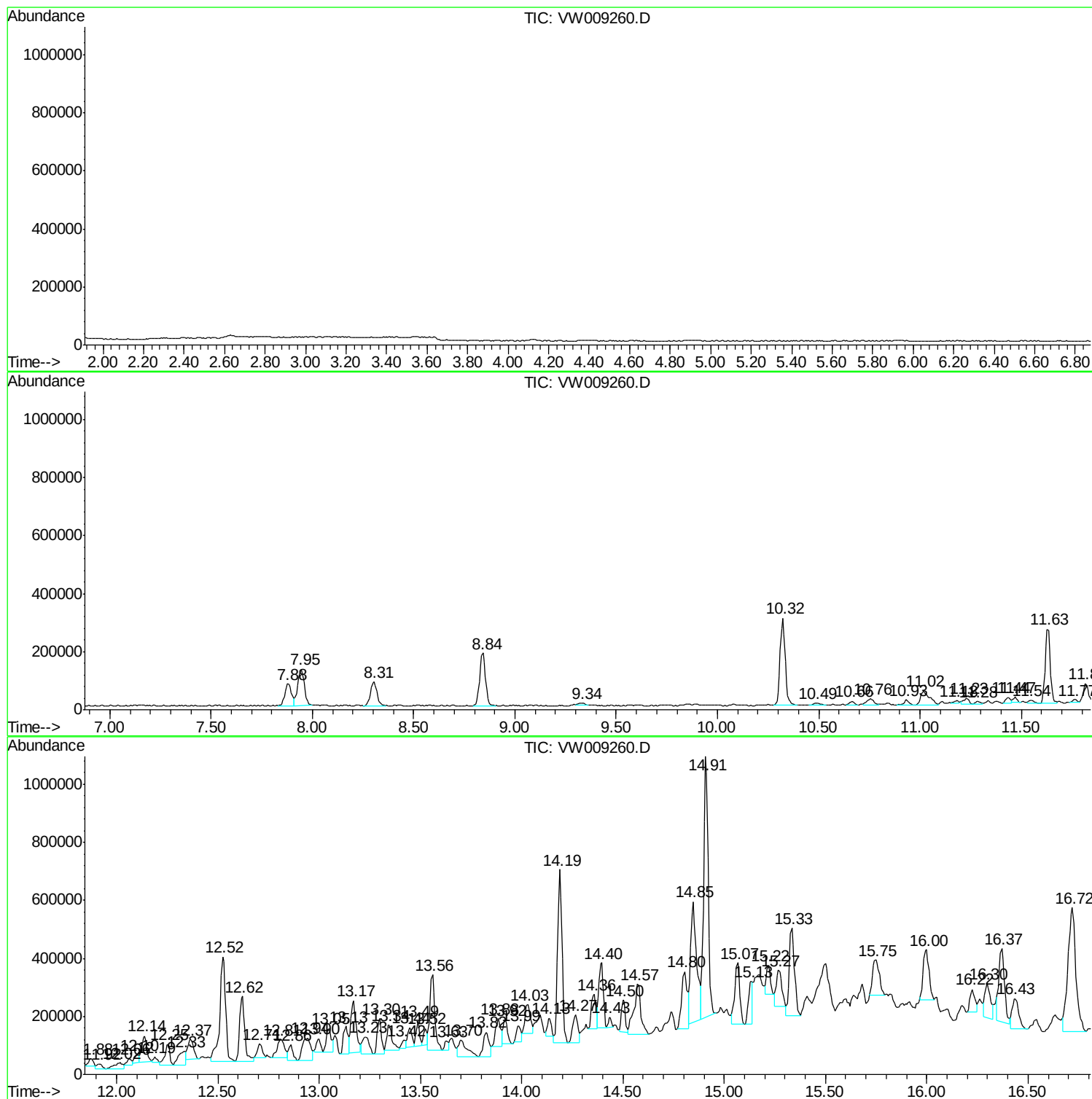
Sum of corrected areas: 17268720

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
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SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

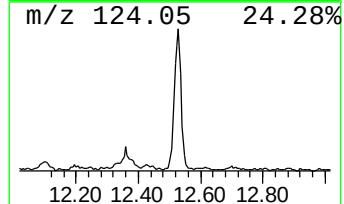
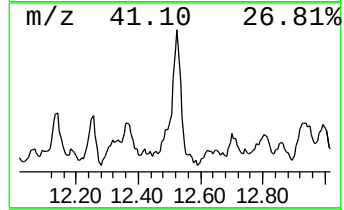
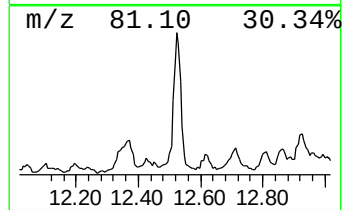
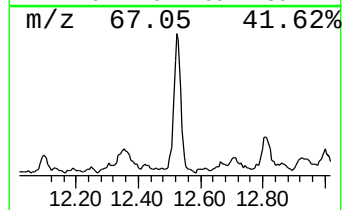
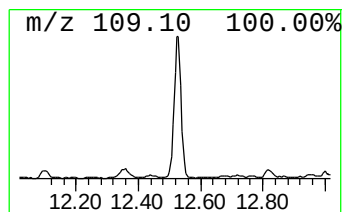
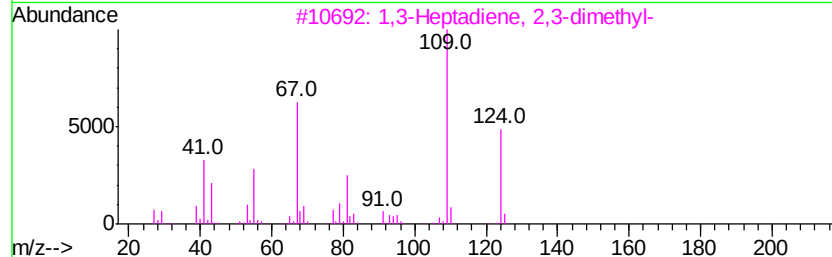
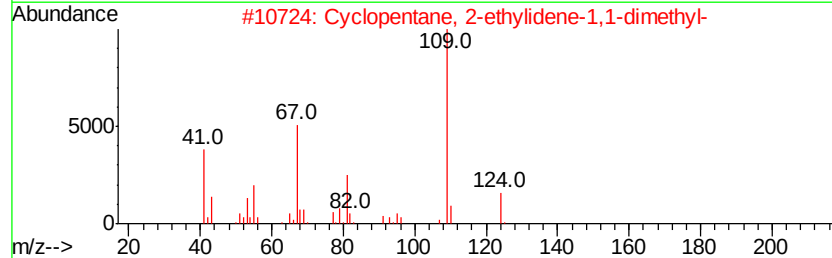
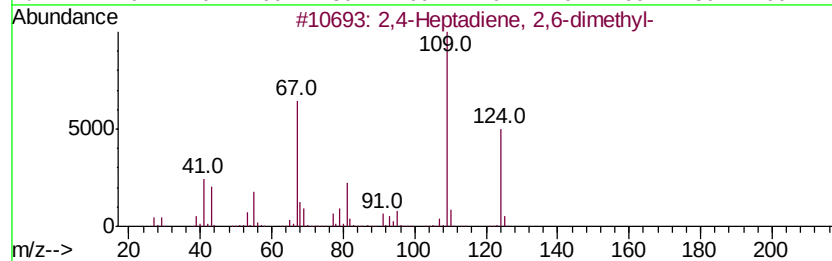
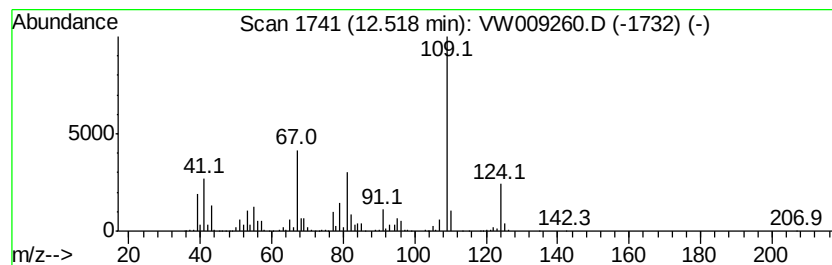
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2,4-Heptadiene, 2,6-dimethyl- Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.52 | 82.41 ug/l | 738113 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 2,4-Heptadiene, 2,6-dimethyl-       | 124 | C9H16   | 004634-87-1  | 91   |
| 2    |    | Cyclopentane, 2-ethylidene-1,1-d... | 124 | C9H16   | 056324-66-4  | 90   |
| 3    |    | 1,3-Heptadiene, 2,3-dimethyl-       | 124 | C9H16   | 074779-65-0  | 90   |
| 4    |    | 6,6-Dimethylhepta-2,4-diene         | 124 | C9H16   | 1000195-03-3 | 78   |
| 5    |    | 1,2,4,4-Tetramethylcyclopentene     | 124 | C9H16   | 065378-76-9  | 72   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

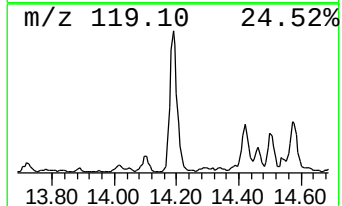
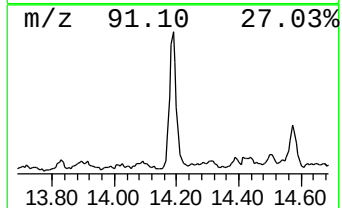
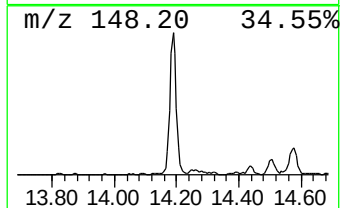
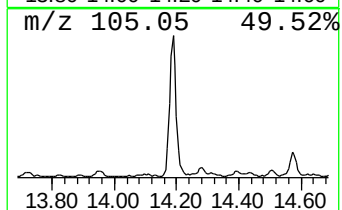
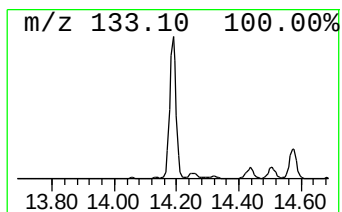
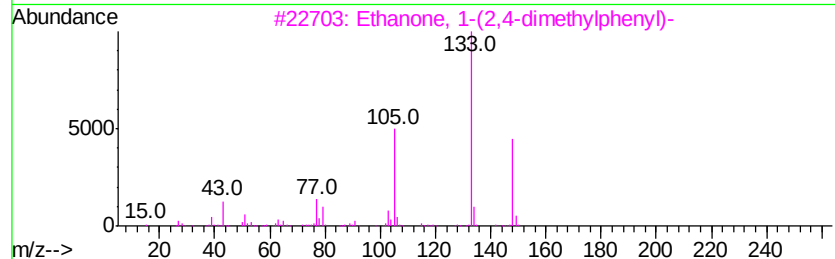
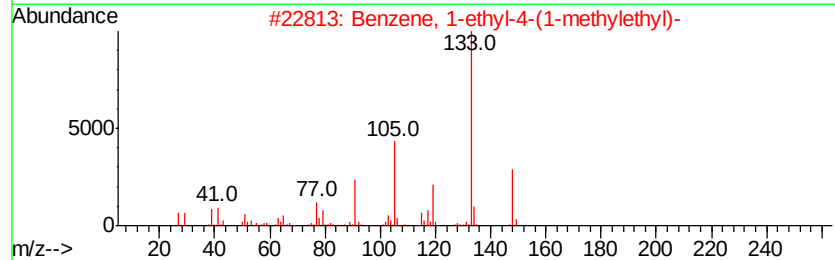
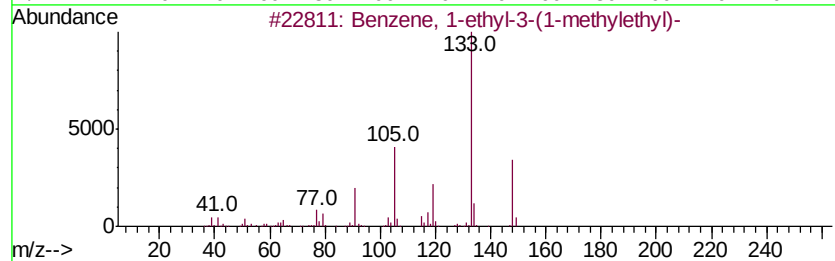
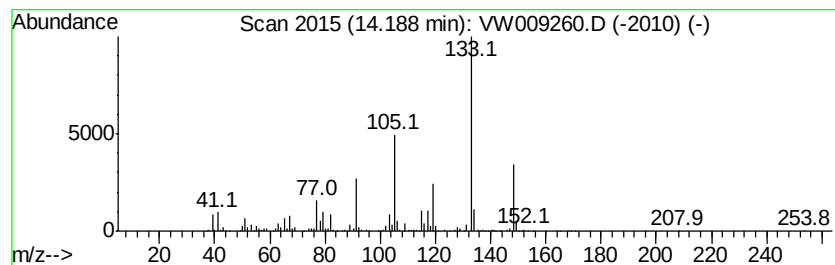
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Benzene, 1-ethyl-3-(1-methy... Concentration Rank 3

| R.T.  | EstConc     | Area   | Relative to ISTD       | R.T.  |
|-------|-------------|--------|------------------------|-------|
| 14.19 | 103.23 ug/l | 910142 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16  | 004920-99-4 | 96   |
| 2    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 96   |
| 3    |    | Ethanone, 1-(2,4-dimethylphenyl)-   | 148 | C10H12O | 000089-74-7 | 93   |
| 4    |    | Ethanone, 1-(3,4-dimethylphenyl)-   | 148 | C10H12O | 003637-01-2 | 92   |
| 5    |    | 4-tert-Butyltoluene                 | 148 | C11H16  | 000098-51-1 | 87   |



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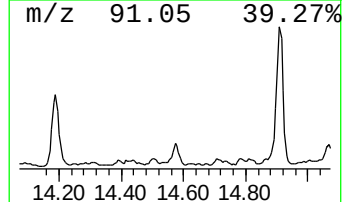
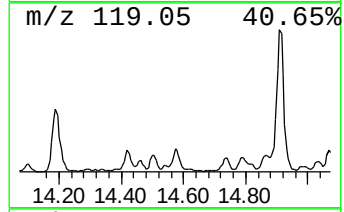
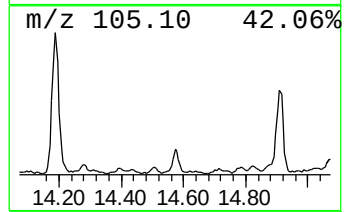
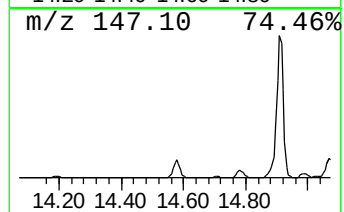
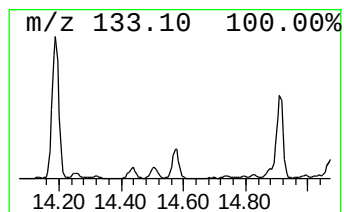
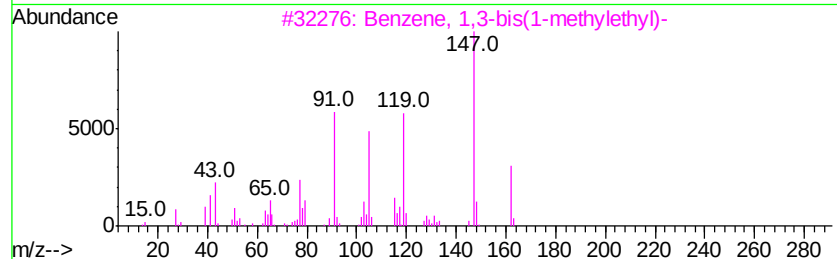
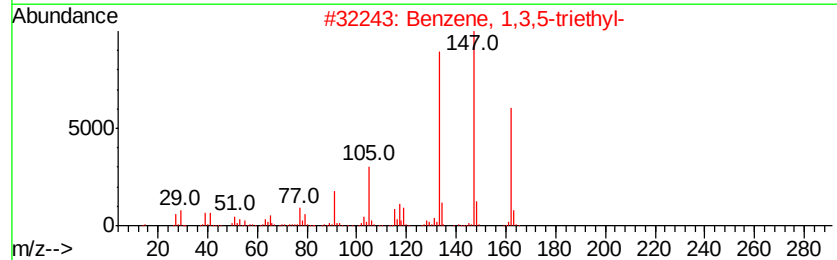
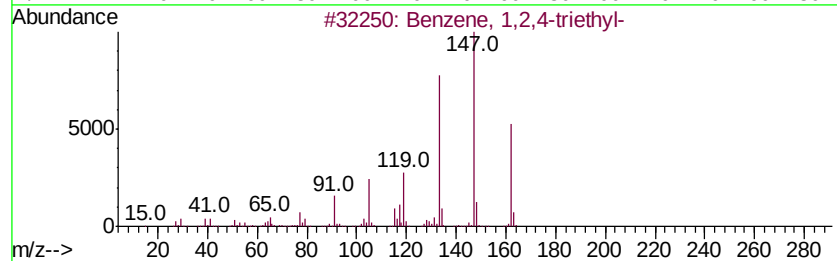
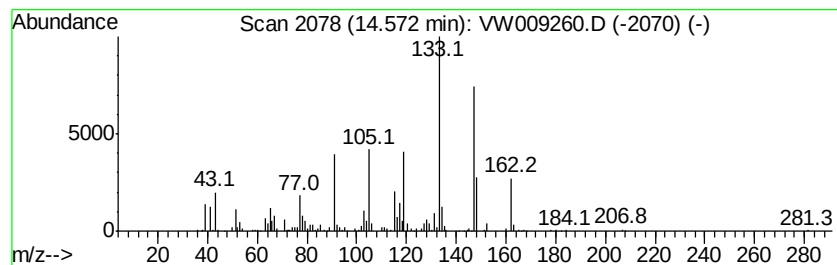
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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,4-triethyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.57 | 46.25 ug/l | 407775 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4-triethyl-          | 162 | C12H18  | 000877-44-1 | 93   |
| 2    |    | Benzene, 1,3,5-triethyl-          | 162 | C12H18  | 000102-25-0 | 89   |
| 3    |    | Benzene, 1,3-bis(1-methylethyl)-  | 162 | C12H18  | 000099-62-7 | 87   |
| 4    |    | 1-Penten-3-ol, 1-phenyl-          | 162 | C11H14O | 034862-94-7 | 83   |
| 5    |    | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16  | 017851-27-3 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

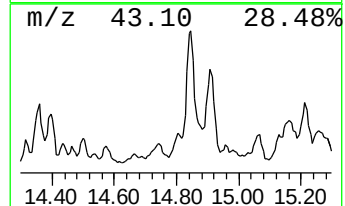
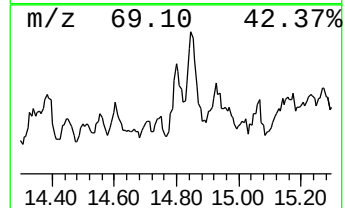
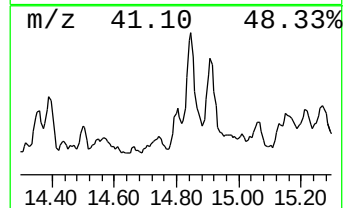
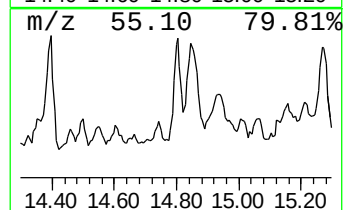
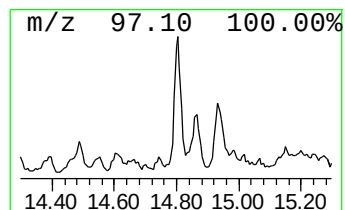
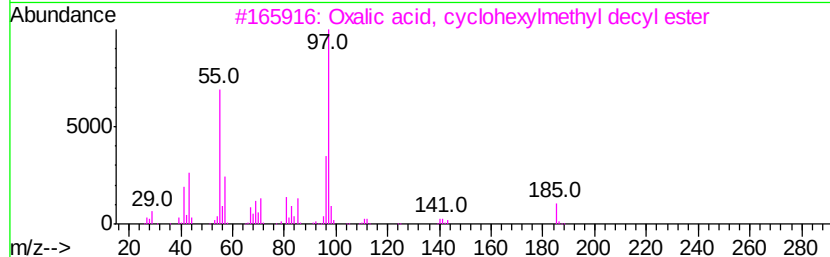
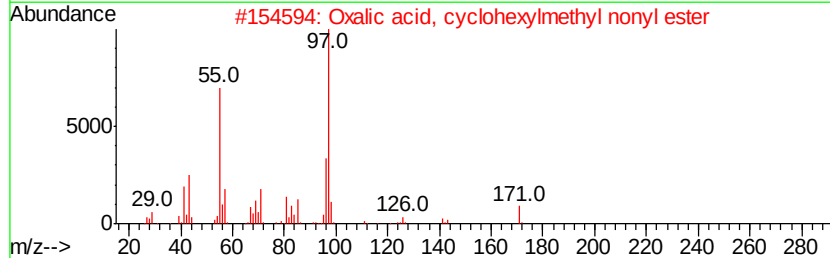
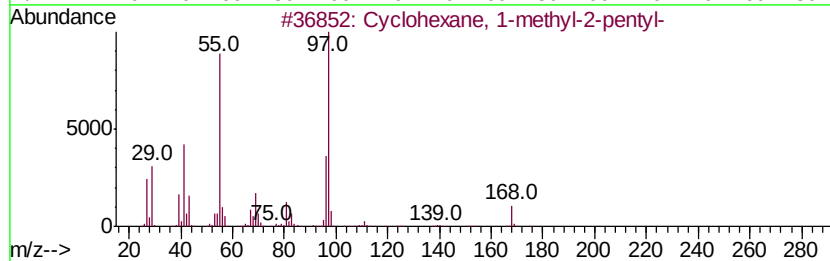
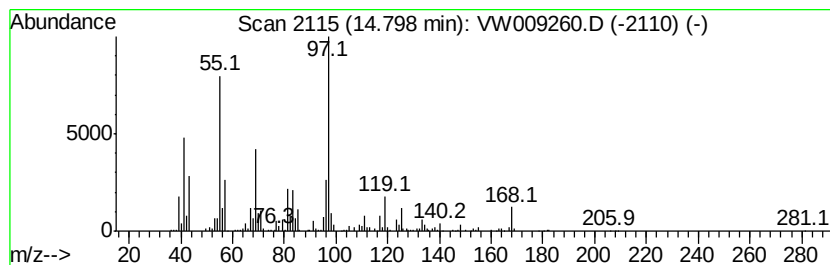
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Cyclohexane, 1-methyl-2-pen... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.80 | 43.86 ug/l | 386680 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Cyclohexane, 1-methyl-2-pentyl-     | 168 | C12H24   | 054411-01-7  | 64   |
| 2    |    | Oxalic acid, cyclohexylmethyl no... | 312 | C18H32O4 | 1000309-68-6 | 64   |
| 3    |    | Oxalic acid, cyclohexylmethyl de... | 326 | C19H34O4 | 1000309-68-7 | 64   |
| 4    |    | Oxalic acid, cyclohexylmethyl do... | 354 | C21H38O4 | 1000309-68-9 | 59   |
| 5    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18    | 019489-10-2  | 53   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

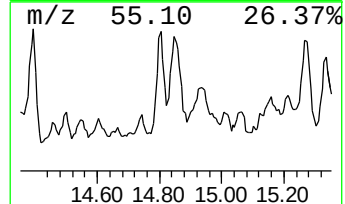
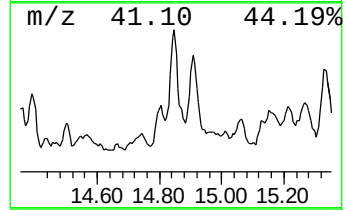
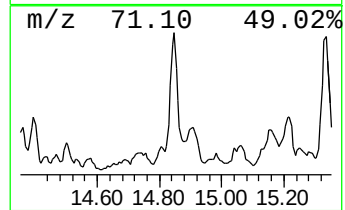
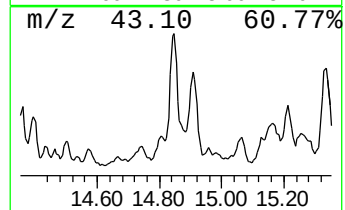
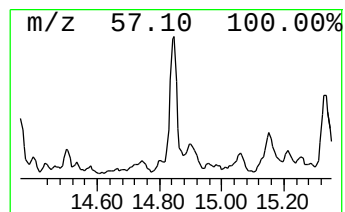
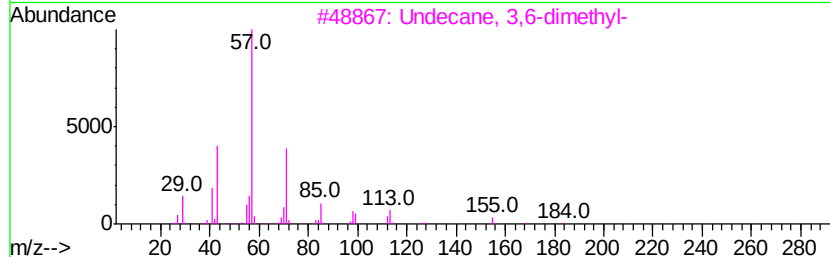
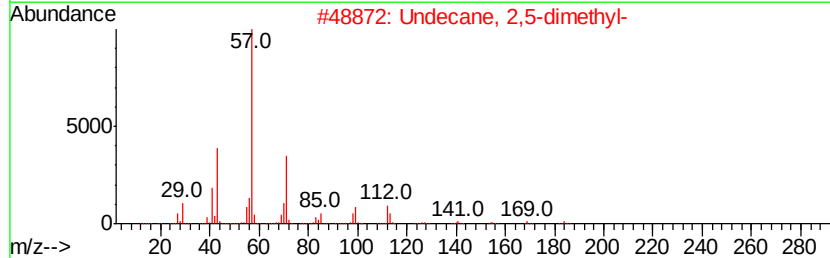
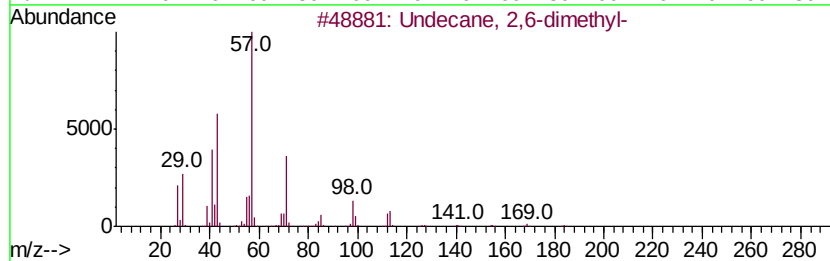
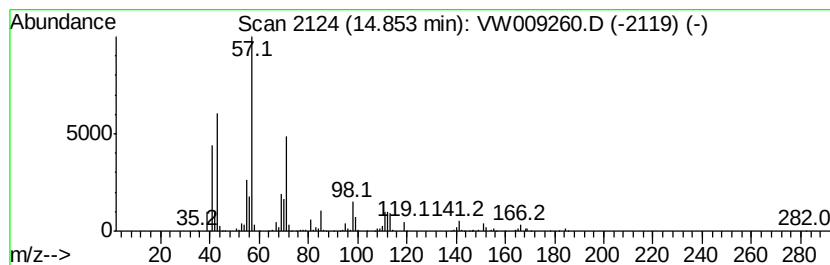
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Undecane, 2,6-dimethyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.85 | 98.40 ug/l | 867578 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                                 | Tentative ID | MW        | MolForm      | CAS# | Qual |
|---------|-----------------------------------|--------------|-----------|--------------|------|------|
| 1       | Undecane, 2,6-dimethyl-           | 184          | C13H28    | 017301-23-4  | 91   |      |
| 2       | Undecane, 2,5-dimethyl-           | 184          | C13H28    | 017301-22-3  | 87   |      |
| 3       | Undecane, 3,6-dimethyl-           | 184          | C13H28    | 017301-28-9  | 72   |      |
| 4       | Nonane, 3-methyl-                 | 142          | C10H22    | 005911-04-6  | 64   |      |
| 5       | Sulfurous acid, butyl octyl ester | 250          | C12H26O3S | 1000309-17-5 | 59   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

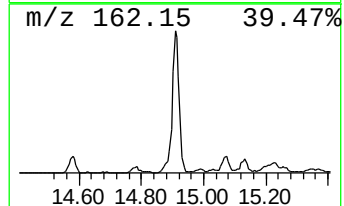
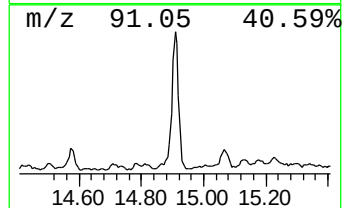
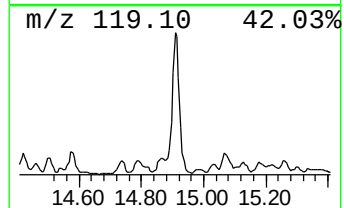
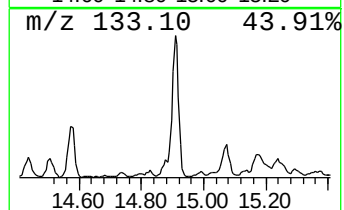
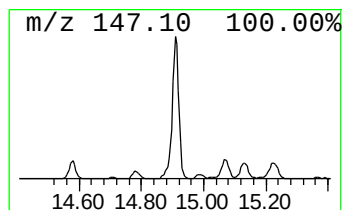
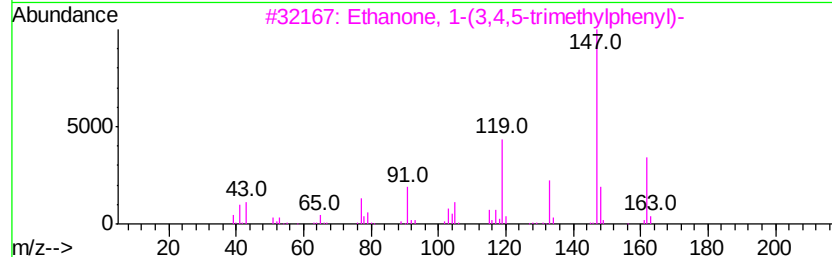
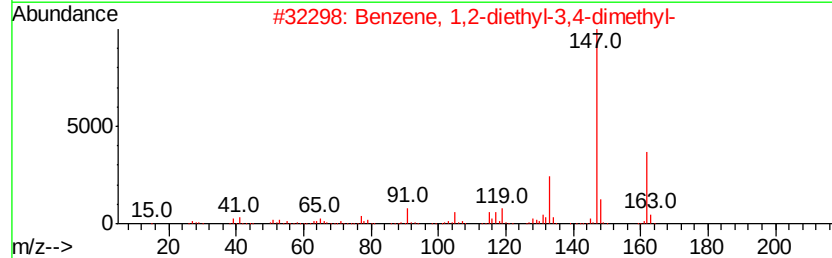
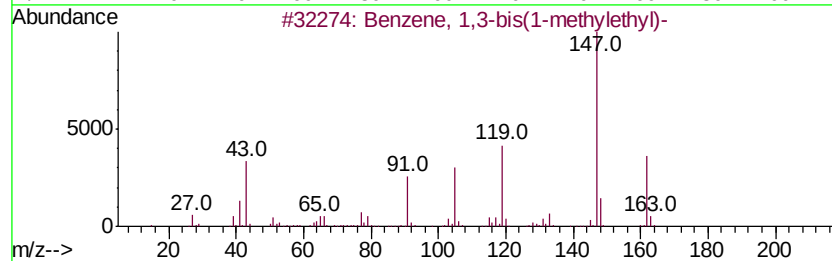
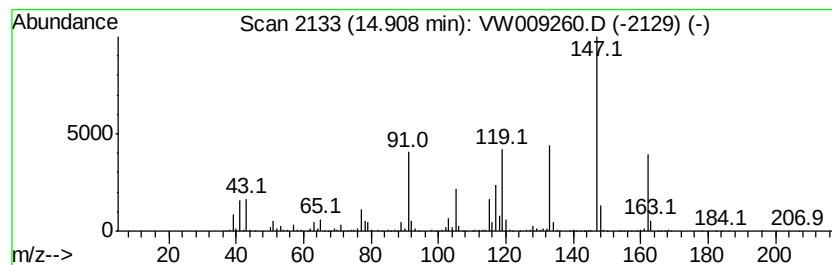
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzene, 1,3-bis(1-methylet... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.91 | 163.47 ug/l | 1441240 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-bis(1-methylethyl)-     | 162 | C12H18  | 000099-62-7 | 81   |
| 2    |    | Benzene, 1,2-diethyl-3,4-dimethyl-   | 162 | C12H18  | 054410-75-2 | 74   |
| 3    |    | Ethanone, 1-(3,4,5-trimethylphenyl)- | 162 | C11H14O | 002047-21-4 | 72   |
| 4    |    | Ethanone, 1-(2,4,5-trimethylphenyl)- | 162 | C11H14O | 002040-07-5 | 70   |
| 5    |    | Benzene, 1,2,4-triethyl-             | 162 | C12H18  | 000877-44-1 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

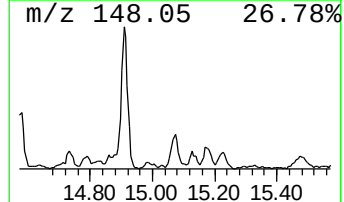
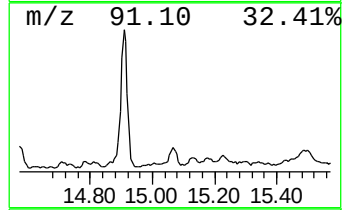
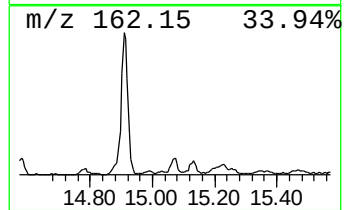
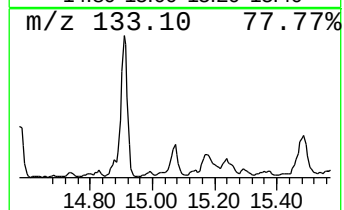
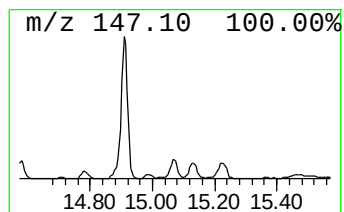
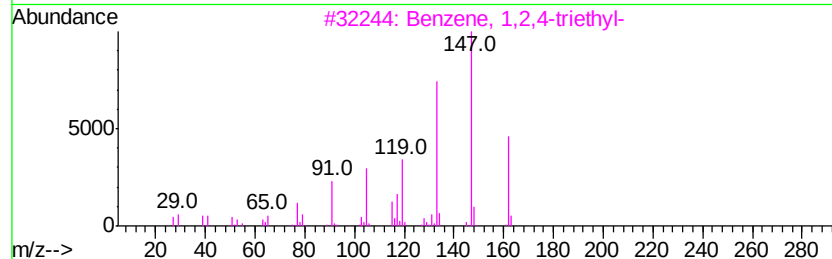
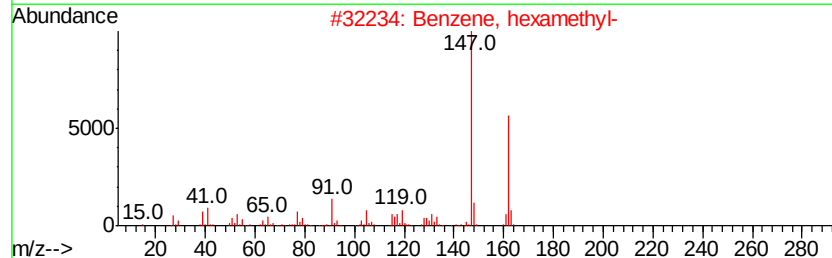
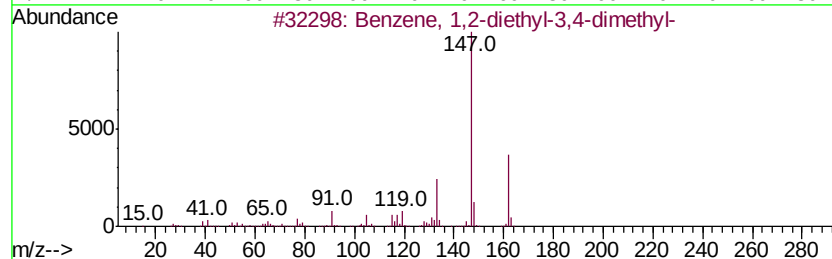
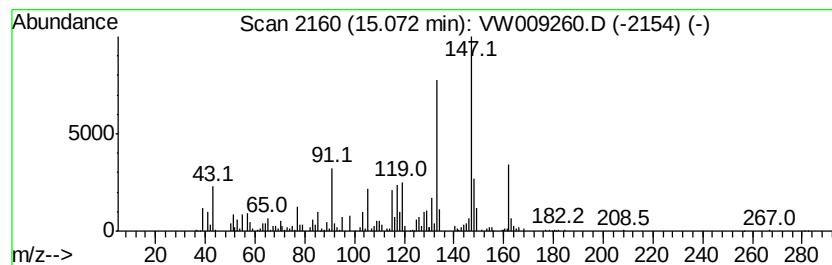
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Benzene, 1,2-diethyl-3,4-di... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.07 | 41.00 ug/l | 361493 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2-diethyl-3,4-dimethyl- | 162 | C12H18  | 054410-75-2 | 87   |
| 2    |    | Benzene, hexamethyl-               | 162 | C12H18  | 000087-85-4 | 49   |
| 3    |    | Benzene, 1,2,4-triethyl-           | 162 | C12H18  | 000877-44-1 | 46   |
| 4    |    | Benzene, 1,3-bis(1-methylethyl)-   | 162 | C12H18  | 000099-62-7 | 46   |
| 5    |    | Benzene, 1,4-bis(1-methylethyl)-   | 162 | C12H18  | 000100-18-5 | 46   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

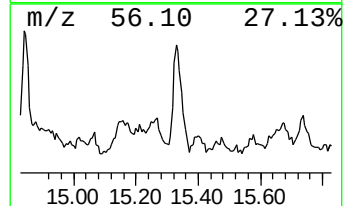
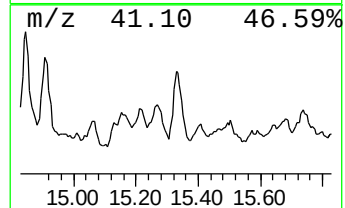
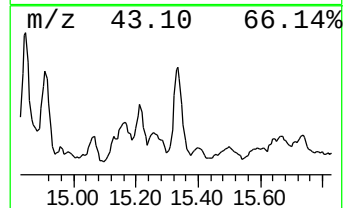
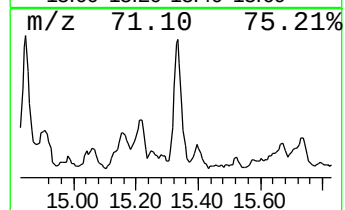
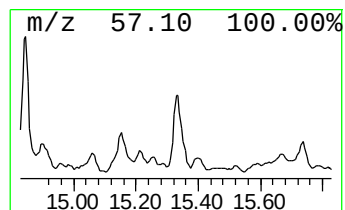
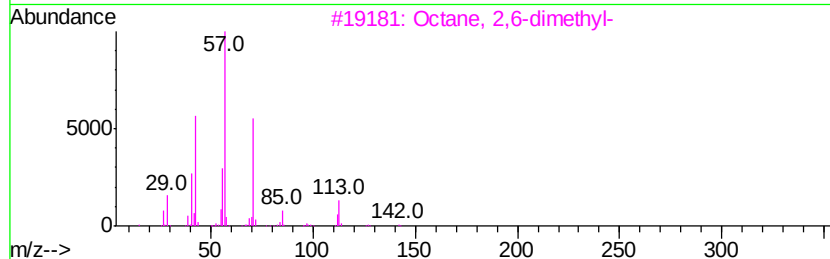
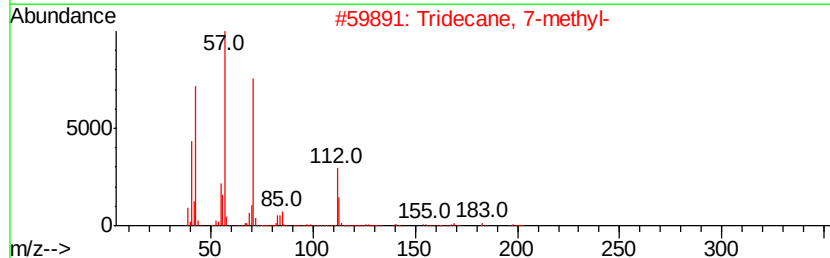
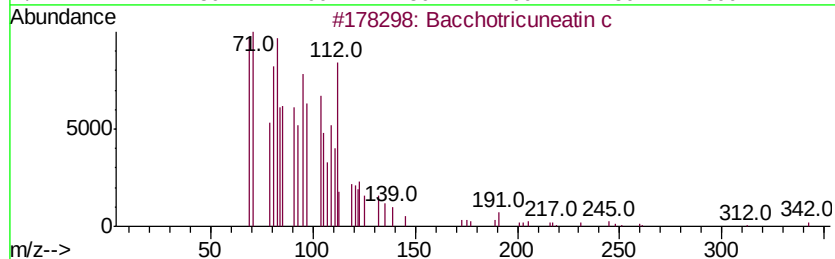
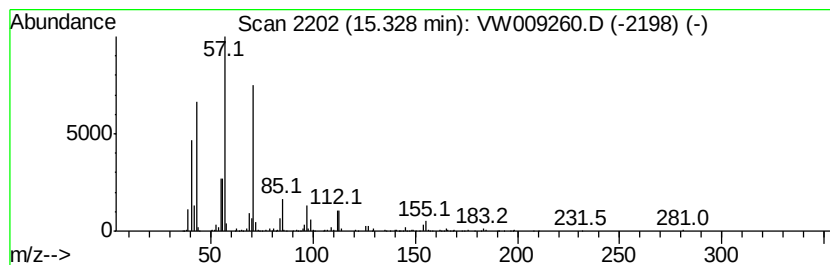
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Bacchotricuneatin c Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.33 | 62.83 ug/l | 553923 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Bacchotricuneatin c                 | 342 | C20H22O5  | 066563-30-2  | 83   |
| 2       |   | Tridecane, 7-methyl-                | 198 | C14H30    | 026730-14-3  | 76   |
| 3       |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 72   |
| 4       |   | Oxalic acid, 2-ethylhexyl hexyl ... | 286 | C16H30O4  | 1000309-38-9 | 72   |
| 5       |   | Sulfurous acid, 2-ethylhexyl non... | 320 | C17H36O3S | 1000309-19-2 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

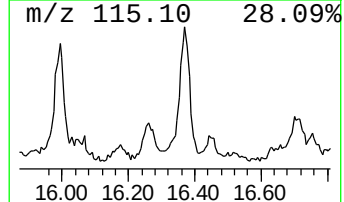
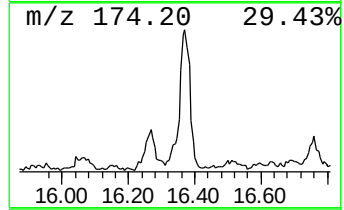
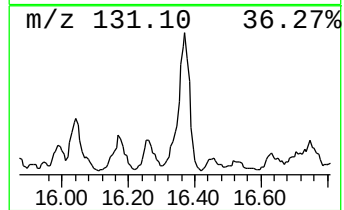
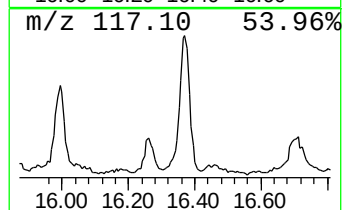
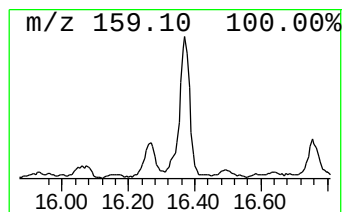
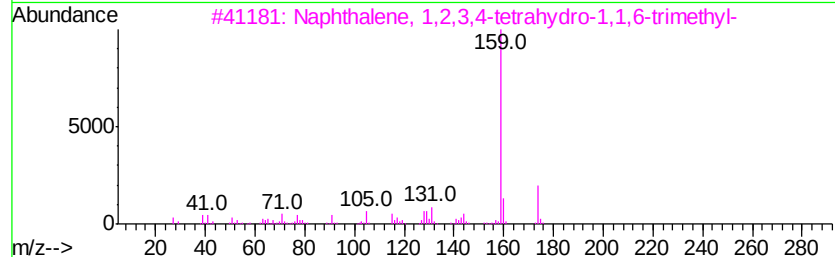
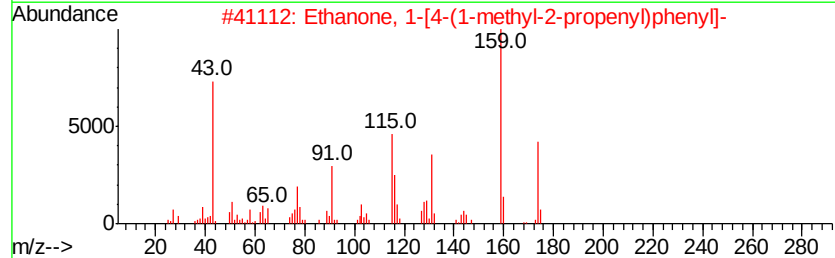
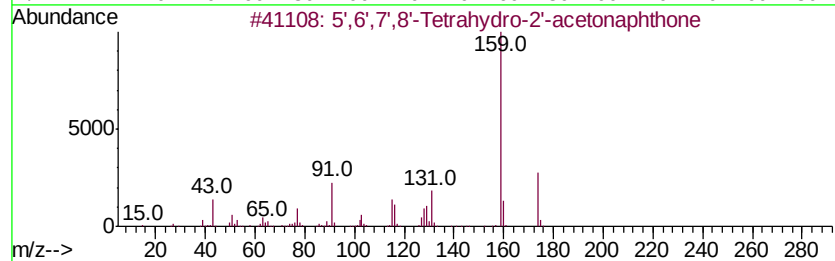
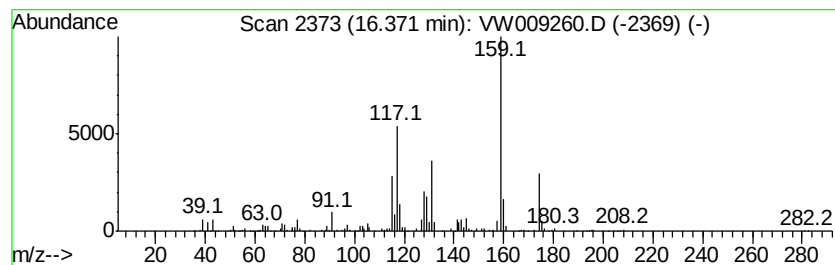
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 5',6',7',8'-Tetrahydro-2'-a... Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 16.37     | 54.16 ug/l                          | 477465 | 1,4-Dichlorobenzene-d4 | 13.56       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#        | Qual |
| 1         | 5',6',7',8'-Tetrahydro-2'-aceton... | 174    | C12H14O                | 000774-55-0 | 81   |
| 2         | Ethanone, 1-[4-(1-methyl-2-prope... | 174    | C12H14O                | 109586-49-4 | 76   |
| 3         | Naphthalene, 1,2,3,4-tetrahydro-... | 174    | C13H18                 | 000475-03-6 | 76   |
| 4         | 1H-Inden-1-one, 2,3-dihydro-3,4,... | 174    | C12H14O                | 035322-84-0 | 74   |
| 5         | Naphthalene, 1,2,3,4-tetrahydro-... | 174    | C13H18                 | 021693-55-0 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

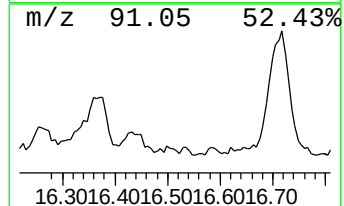
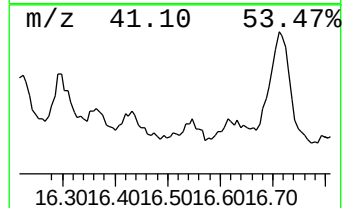
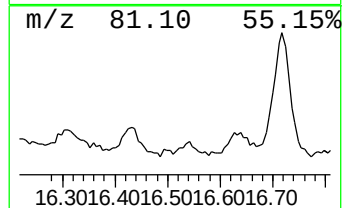
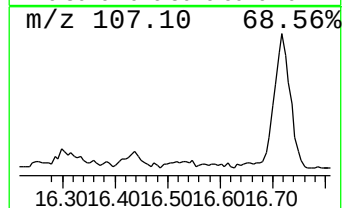
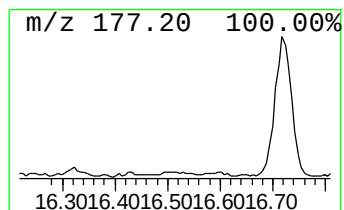
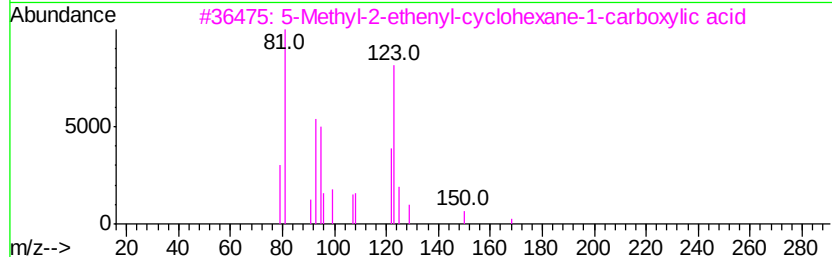
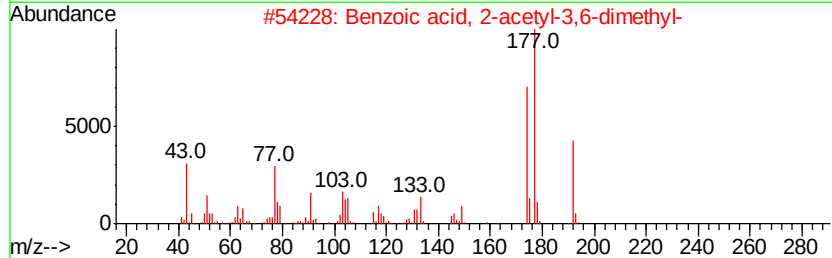
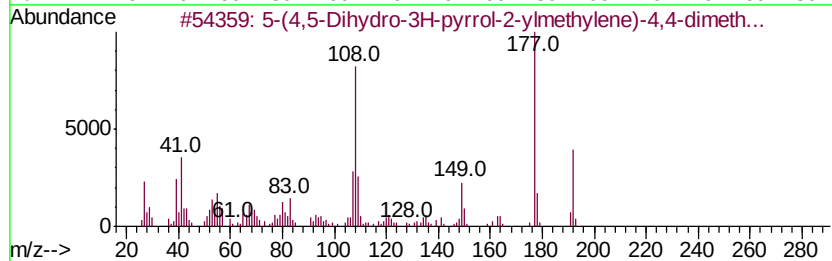
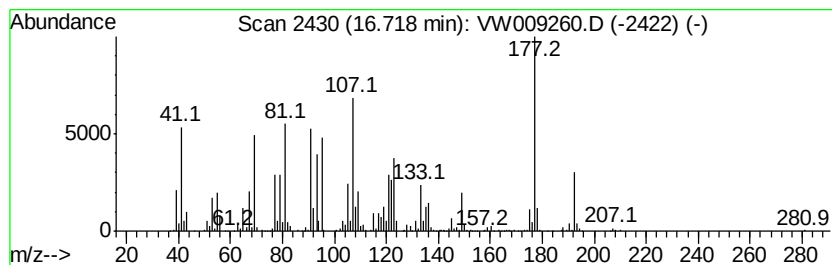
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown16.72 Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.72 | 130.06 ug/l | 1146680 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 5-(4,5-Dihydro-3H-pyrrol-2-yl)met... | 192 | C11H16N2O | 051430-87-6  | 43   |
| 2    |    | Benzoic acid, 2-acetyl-3,6-dimet...  | 192 | C11H12O3  | 146950-86-9  | 30   |
| 3    |    | 5-Methyl-2-ethenyl-cyclohexane-1...  | 168 | C10H16O2  | 1000144-53-6 | 27   |
| 4    |    | 2,6-Diisopropylanisole               | 192 | C13H20O   | 002944-52-7  | 25   |
| 5    |    | 1,3-Benzodioxol-2-one, 5-(1,1-di...  | 192 | C11H12O3  | 054815-21-3  | 22   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW031919\  
Data File : VW009260.D  
Acq On : 20 Mar 2019 01:58  
Operator : SY/VA  
Sample : K1971-07  
Misc : 3.29G/5ML/MSVOA\_W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2,4-Heptadiene, 2... | 12.52 | 82.4    | ug/l  | 738113   | 3                     | 11.63 | 447850 | 50.0 |
| Benzene, 1-ethyl-... | 14.19 | 103.2   | ug/l  | 910142   | 4                     | 13.56 | 440824 | 50.0 |
| Benzene, 1,2,4-tr... | 14.57 | 46.3    | ug/l  | 407775   | 4                     | 13.56 | 440824 | 50.0 |
| Cyclohexane, 1-me... | 14.80 | 43.9    | ug/l  | 386680   | 4                     | 13.56 | 440824 | 50.0 |
| Undecane, 2,6-dim... | 14.85 | 98.4    | ug/l  | 867578   | 4                     | 13.56 | 440824 | 50.0 |
| Benzene, 1,3-bis(... | 14.91 | 163.5   | ug/l  | 1441240  | 4                     | 13.56 | 440824 | 50.0 |
| Benzene, 1,2-diet... | 15.07 | 41.0    | ug/l  | 361493   | 4                     | 13.56 | 440824 | 50.0 |
| Bacchotricuneatin c  | 15.33 | 62.8    | ug/l  | 553923   | 4                     | 13.56 | 440824 | 50.0 |
| 5',6',7',8'-Tetra... | 16.37 | 54.2    | ug/l  | 477465   | 4                     | 13.56 | 440824 | 50.0 |
| unknown16.72         | 16.72 | 130.1   | ug/l  | 1146680  | 4                     | 13.56 | 440824 | 50.0 |