

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW102224\  
 Data File : VW030704.D  
 Acq On : 22 Oct 2024 15:31  
 Operator : SY/MD  
 Sample : P4415-19  
 Misc : 5.19g/10mL/MSVOA\_W/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A4F42

Integration Parameters: LSCINT.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\_W\Method\SFAMWLM100924SMA.M  
 Title : SFAM01.0

Signal : TIC: VW030704.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         | 2.155       | 41            | 44          | 45           | rBV3     | 1407           | 1498          | 0.13%           | 0.017%        |
| 2         | 2.174       | 45            | 47          | 49           | rVB2     | 1438           | 1089          | 0.09%           | 0.012%        |
| 3         | 2.363       | 72            | 78          | 90           | rBV      | 52671          | 121529        | 10.26%          | 1.368%        |
| 4         | 2.899       | 159           | 166         | 185          | rVB2     | 47292          | 142096        | 12.00%          | 1.599%        |
| 5         | 3.271       | 226           | 227         | 229          | rBV2     | 1111           | 777           | 0.07%           | 0.009%        |
| 6         | 3.393       | 242           | 247         | 252          | rBV7     | 3132           | 6244          | 0.53%           | 0.070%        |
| 7         | 3.789       | 310           | 312         | 316          | rVB3     | 900            | 1140          | 0.10%           | 0.013%        |
| 8         | 3.832       | 316           | 319         | 322          | rVB4     | 966            | 1330          | 0.11%           | 0.015%        |
| 9         | 3.881       | 322           | 327         | 328          | rBV4     | 956            | 1244          | 0.11%           | 0.014%        |
| 10        | 4.021       | 340           | 350         | 365          | rBV2     | 83271          | 265866        | 22.44%          | 2.993%        |
| 11        | 4.271       | 388           | 391         | 394          | rBV4     | 483            | 733           | 0.06%           | 0.008%        |
| 12        | 4.393       | 406           | 411         | 412          | rBV4     | 1079           | 1313          | 0.11%           | 0.015%        |
| 13        | 4.466       | 419           | 423         | 425          | rBV5     | 1012           | 1412          | 0.12%           | 0.016%        |
| 14        | 4.838       | 482           | 484         | 487          | rVB4     | 1119           | 1167          | 0.10%           | 0.013%        |
| 15        | 4.874       | 487           | 490         | 491          | rBV      | 1096           | 1207          | 0.10%           | 0.014%        |
| 16        | 4.917       | 491           | 497         | 499          | rBV6     | 1995           | 4313          | 0.36%           | 0.049%        |
| 17        | 5.368       | 568           | 571         | 572          | rBV2     | 969            | 1053          | 0.09%           | 0.012%        |
| 18        | 5.545       | 596           | 600         | 601          | rVB2     | 735            | 824           | 0.07%           | 0.009%        |
| 19        | 5.600       | 606           | 609         | 612          | rVV5     | 800            | 984           | 0.08%           | 0.011%        |
| 20        | 5.630       | 612           | 614         | 617          | rVB4     | 1019           | 983           | 0.08%           | 0.011%        |
| 21        | 5.673       | 617           | 621         | 623          | rBV4     | 870            | 1141          | 0.10%           | 0.013%        |
| 22        | 5.722       | 628           | 629         | 632          | rBV2     | 900            | 748           | 0.06%           | 0.008%        |
| 23        | 5.832       | 643           | 647         | 650          | rVV6     | 694            | 1048          | 0.09%           | 0.012%        |
| 24        | 5.893       | 656           | 657         | 659          | rBV2     | 856            | 770           | 0.07%           | 0.009%        |
| 25        | 5.947       | 659           | 666         | 676          | rVB8     | 4492           | 13807         | 1.17%           | 0.155%        |
| 26        | 6.167       | 700           | 702         | 704          | rVB3     | 957            | 756           | 0.06%           | 0.009%        |
| 27        | 6.283       | 717           | 721         | 722          | rVV3     | 682            | 928           | 0.08%           | 0.010%        |
| 28        | 6.295       | 722           | 723         | 727          | rVB3     | 1100           | 957           | 0.08%           | 0.011%        |
| 29        | 6.630       | 776           | 778         | 781          | rVB2     | 952            | 915           | 0.08%           | 0.010%        |
| 30        | 6.673       | 781           | 785         | 787          | rBV4     | 757            | 1101          | 0.09%           | 0.012%        |
| 31        | 6.892       | 817           | 821         | 822          | rVB4     | 993            | 1013          | 0.09%           | 0.011%        |
| 32        | 7.081       | 842           | 852         | 870          | rVV      | 33913          | 122587        | 10.35%          | 1.380%        |
| 33        | 7.228       | 874           | 876         | 878          | rVV2     | 2352           | 1992          | 0.17%           | 0.022%        |
| 34        | 7.392       | 900           | 903         | 906          | rVB4     | 640            | 801           | 0.07%           | 0.009%        |
| 35        | 7.423       | 906           | 908         | 913          | rVB5     | 1139           | 1466          | 0.12%           | 0.017%        |
| 36        | 7.648       | 935           | 945         | 956          | rBV      | 231415         | 578205        | 48.81%          | 6.508%        |

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 Title : SFAM01.0

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 37 | 8.276  | 1038 | 1048 | 1063 | rBV2 | 369230 | 1117124 | 94.31%  | 12.574% |
| 38 | 8.380  | 1063 | 1065 | 1069 | rVB4 | 919    | 1297    | 0.11%   | 0.015%  |
| 39 | 8.459  | 1075 | 1078 | 1081 | rBV5 | 759    | 1165    | 0.10%   | 0.013%  |
| 40 | 8.624  | 1101 | 1105 | 1109 | rBV6 | 908    | 1800    | 0.15%   | 0.020%  |
| 41 | 8.691  | 1111 | 1116 | 1122 | rBV6 | 1710   | 3424    | 0.29%   | 0.039%  |
| 42 | 8.770  | 1125 | 1129 | 1130 | rBV2 | 919    | 1058    | 0.09%   | 0.012%  |
| 43 | 8.843  | 1130 | 1141 | 1153 | rBV  | 580967 | 1137636 | 96.04%  | 12.805% |
| 44 | 9.087  | 1173 | 1181 | 1186 | rBV  | 2721   | 7112    | 0.60%   | 0.080%  |
| 45 | 9.154  | 1191 | 1192 | 1198 | rVB4 | 816    | 995     | 0.08%   | 0.011%  |
| 46 | 9.276  | 1201 | 1212 | 1221 | rBV  | 288116 | 609097  | 51.42%  | 6.856%  |
| 47 | 9.404  | 1232 | 1233 | 1238 | rVB5 | 1117   | 1193    | 0.10%   | 0.013%  |
| 48 | 9.556  | 1256 | 1258 | 1260 | rBV3 | 1024   | 992     | 0.08%   | 0.011%  |
| 49 | 9.617  | 1266 | 1268 | 1272 | rBV5 | 860    | 1206    | 0.10%   | 0.014%  |
| 50 | 9.678  | 1272 | 1278 | 1279 | rBV5 | 1814   | 2922    | 0.25%   | 0.033%  |
| 51 | 9.788  | 1293 | 1296 | 1299 | rBV5 | 911    | 1104    | 0.09%   | 0.012%  |
| 52 | 10.032 | 1329 | 1336 | 1350 | rBV  | 137957 | 248974  | 21.02%  | 2.802%  |
| 53 | 10.325 | 1376 | 1384 | 1392 | rBV  | 402161 | 727148  | 61.39%  | 8.185%  |
| 54 | 10.575 | 1419 | 1425 | 1433 | rBV  | 81389  | 146765  | 12.39%  | 1.652%  |
| 55 | 10.697 | 1441 | 1445 | 1450 | rBV  | 9978   | 18039   | 1.52%   | 0.203%  |
| 56 | 10.861 | 1466 | 1472 | 1476 | rBV3 | 7423   | 14084   | 1.19%   | 0.159%  |
| 57 | 10.922 | 1476 | 1482 | 1495 | rVV  | 133984 | 237338  | 20.04%  | 2.671%  |
| 58 | 11.392 | 1554 | 1559 | 1560 | rBV4 | 666    | 1044    | 0.09%   | 0.012%  |
| 59 | 11.471 | 1569 | 1572 | 1577 | rVB4 | 677    | 961     | 0.08%   | 0.011%  |
| 60 | 11.629 | 1590 | 1598 | 1609 | rBV  | 706806 | 1184523 | 100.00% | 13.333% |
| 61 | 11.837 | 1627 | 1632 | 1636 | rVV7 | 2054   | 4269    | 0.36%   | 0.048%  |
| 62 | 11.952 | 1649 | 1651 | 1653 | rBV3 | 734    | 871     | 0.07%   | 0.010%  |
| 63 | 12.288 | 1703 | 1706 | 1708 | rBV4 | 902    | 854     | 0.07%   | 0.010%  |
| 64 | 12.361 | 1711 | 1718 | 1724 | rBV4 | 8661   | 17697   | 1.49%   | 0.199%  |
| 65 | 12.410 | 1724 | 1726 | 1729 | rVV3 | 742    | 772     | 0.07%   | 0.009%  |
| 66 | 12.471 | 1729 | 1736 | 1744 | rVV  | 51056  | 88708   | 7.49%   | 0.998%  |
| 67 | 12.599 | 1749 | 1757 | 1763 | rVB2 | 10705  | 20180   | 1.70%   | 0.227%  |
| 68 | 12.690 | 1765 | 1772 | 1789 | rBV2 | 220594 | 483020  | 40.78%  | 5.437%  |
| 69 | 12.958 | 1807 | 1816 | 1820 | rBV9 | 4094   | 9686    | 0.82%   | 0.109%  |
| 70 | 13.019 | 1821 | 1826 | 1835 | rVB6 | 7715   | 16170   | 1.37%   | 0.182%  |
| 71 | 13.092 | 1835 | 1838 | 1840 | rBV3 | 768    | 1058    | 0.09%   | 0.012%  |
| 72 | 13.190 | 1849 | 1854 | 1858 | rVB  | 8424   | 13497   | 1.14%   | 0.152%  |
| 73 | 13.300 | 1868 | 1872 | 1878 | rVB2 | 5318   | 8296    | 0.70%   | 0.093%  |
| 74 | 13.403 | 1879 | 1889 | 1893 | rBV  | 17828  | 32451   | 2.74%   | 0.365%  |
| 75 | 13.464 | 1894 | 1899 | 1907 | rBV5 | 16970  | 33338   | 2.81%   | 0.375%  |
| 76 | 13.556 | 1907 | 1914 | 1919 | rBV  | 480849 | 791663  | 66.83%  | 8.911%  |

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Instrument :  
 MSVOA\_W  
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Integration Parameters: LSCINT.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\_W\Method\SFAMWLM100924SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.757 | 1942 | 1947 | 1955 | rVB3 | 9190   | 16984  | 1.43%  | 0.191% |
| 78  | 13.848 | 1955 | 1962 | 1969 | rBV  | 334648 | 546251 | 46.12% | 6.148% |
| 79  | 13.995 | 1984 | 1986 | 1990 | rVV5 | 1285   | 1209   | 0.10%  | 0.014% |
| 80  | 14.062 | 1994 | 1997 | 2002 | rVV  | 4887   | 8528   | 0.72%  | 0.096% |
| 81  | 14.104 | 2002 | 2004 | 2012 | rVB6 | 3347   | 5621   | 0.47%  | 0.063% |
| 82  | 14.318 | 2035 | 2039 | 2045 | rBV6 | 2463   | 4452   | 0.38%  | 0.050% |
| 83  | 14.397 | 2048 | 2052 | 2056 | rBV7 | 731    | 1212   | 0.10%  | 0.014% |
| 84  | 14.556 | 2077 | 2078 | 2081 | rVB2 | 1091   | 792    | 0.07%  | 0.009% |
| 85  | 14.610 | 2081 | 2087 | 2089 | rBV6 | 1425   | 2259   | 0.19%  | 0.025% |
| 86  | 14.763 | 2109 | 2112 | 2115 | rBV3 | 734    | 1152   | 0.10%  | 0.013% |
| 87  | 14.799 | 2115 | 2118 | 2125 | rVB9 | 1331   | 2702   | 0.23%  | 0.030% |
| 88  | 15.043 | 2156 | 2158 | 2159 | rBV2 | 1068   | 780    | 0.07%  | 0.009% |
| 89  | 15.135 | 2171 | 2173 | 2175 | rVB3 | 1443   | 1256   | 0.11%  | 0.014% |
| 90  | 15.366 | 2206 | 2211 | 2217 | rBV7 | 1922   | 3333   | 0.28%  | 0.038% |
| 91  | 15.446 | 2222 | 2224 | 2226 | rVV2 | 960    | 854    | 0.07%  | 0.010% |
| 92  | 15.482 | 2226 | 2230 | 2233 | rVB5 | 1074   | 1620   | 0.14%  | 0.018% |
| 93  | 15.659 | 2258 | 2259 | 2261 | rBV2 | 893    | 736    | 0.06%  | 0.008% |
| 94  | 15.891 | 2294 | 2297 | 2299 | rVV4 | 955    | 1151   | 0.10%  | 0.013% |
| 95  | 16.037 | 2318 | 2321 | 2324 | rVB3 | 1494   | 1788   | 0.15%  | 0.020% |
| 96  | 16.074 | 2326 | 2327 | 2332 | rVB4 | 1080   | 1235   | 0.10%  | 0.014% |
| 97  | 16.135 | 2332 | 2337 | 2340 | rBV6 | 946    | 1989   | 0.17%  | 0.022% |
| 98  | 16.214 | 2344 | 2350 | 2352 | rBV5 | 717    | 1222   | 0.10%  | 0.014% |
| 99  | 16.263 | 2354 | 2358 | 2361 | rBV5 | 1255   | 1668   | 0.14%  | 0.019% |
| 100 | 16.677 | 2425 | 2426 | 2430 | rBV3 | 897    | 943    | 0.08%  | 0.011% |

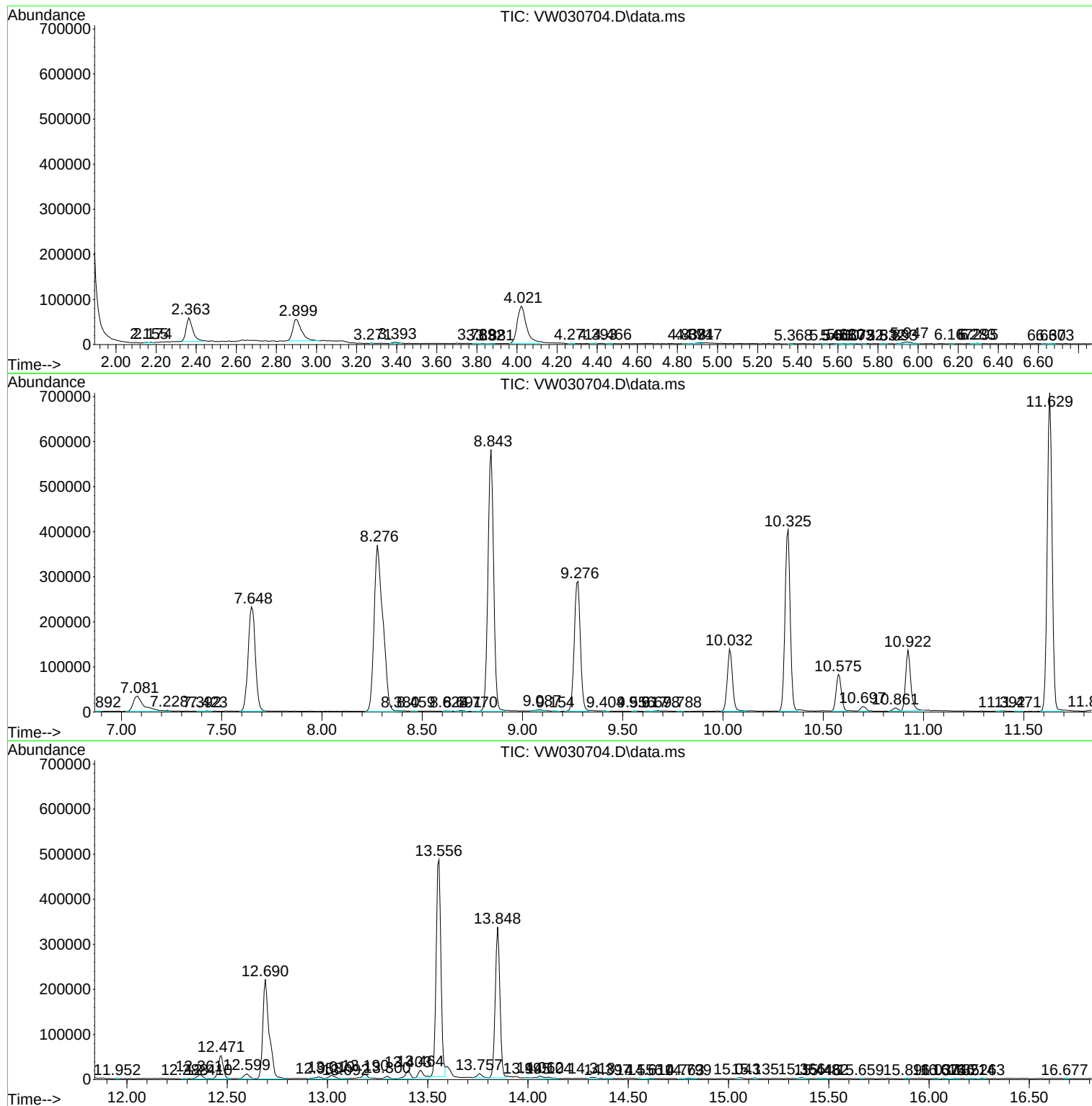
Sum of corrected areas: 8884305

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM100924SMA.M  
Quant Title : SFAM01.0

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



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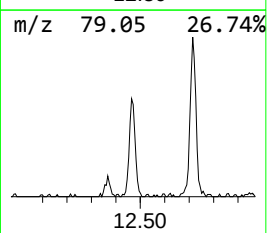
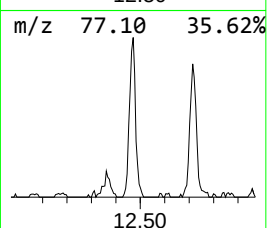
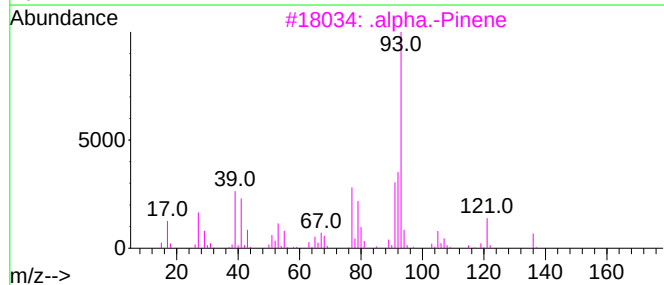
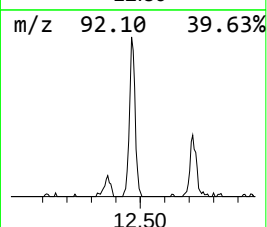
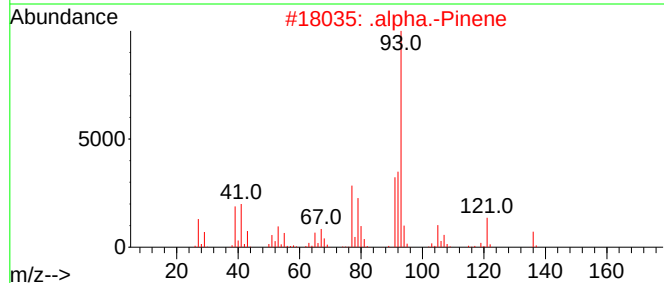
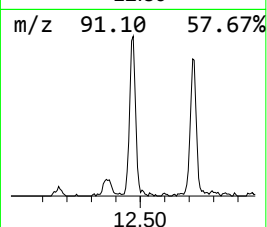
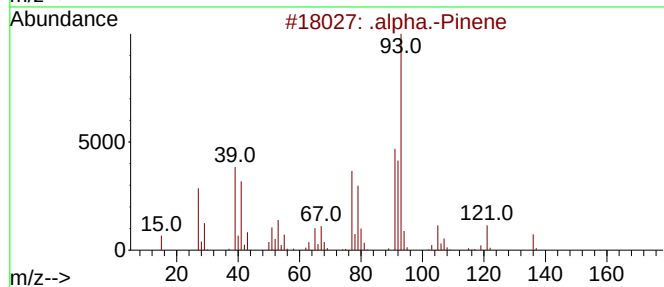
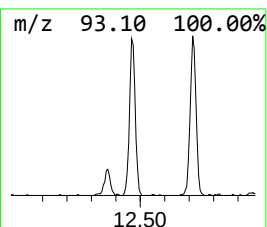
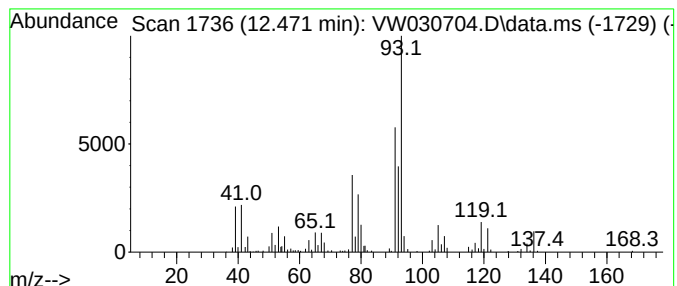
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM100924SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 2 .alpha.-Pinene Concentration Rank 2

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.471 | 1.87 ug/L | 88708 | Chlorobenzene-d5 | 11.629 |

| Hit# | of                                 | 5             | Tentative ID | MW          | MolForm     | CAS# | Qual |
|------|------------------------------------|---------------|--------------|-------------|-------------|------|------|
| 1    | .                                  | alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 93   |      |
| 2    | .                                  | alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 87   |      |
| 3    | .                                  | alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 83   |      |
| 4    | (1S)-2,6,6-Trimethylbicyclo[3.1... | 136           | C10H16       | 007785-26-4 | 81          |      |      |
| 5    | (1R)-2,6,6-Trimethylbicyclo[3.1... | 136           | C10H16       | 007785-70-8 | 81          |      |      |



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| TIC Top Hit name | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                  |        |         |       |          | #                     | RT     | Resp    | Conc |
| .alpha.-Pinene   | 12.471 | 1.9     | ug/L  | 88708    | 2                     | 11.629 | 1184520 | 25.0 |