

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW112719\  
 Data File : VW014153.D  
 Acq On : 27 Nov 2019 12:38  
 Operator : SY/VA  
 Sample : K6063-12  
 Misc : 5.80G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0BN8

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0 % 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\SOM2WLM111119S.M  
 Title : VOC Analysis

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         | 2.154       | 37            | 41          | 48           | rBV      | 10314          | 22652         | 1.96%           | 0.366%        |
| 2         | 2.349       | 68            | 73          | 81           | rVB      | 64896          | 111651        | 9.67%           | 1.804%        |
| 3         | 2.885       | 154           | 161         | 175          | rVB2     | 50663          | 126704        | 10.97%          | 2.047%        |
| 4         | 3.343       | 234           | 236         | 237          | rBV      | 359            | 255           | 0.02%           | 0.004%        |
| 5         | 3.446       | 251           | 253         | 254          | rBV      | 522            | 304           | 0.03%           | 0.005%        |
| 6         | 3.592       | 275           | 277         | 279          | rBV      | 205            | 239           | 0.02%           | 0.004%        |
| 7         | 3.842       | 316           | 318         | 319          | rVB      | 388            | 262           | 0.02%           | 0.004%        |
| 8         | 3.855       | 319           | 320         | 322          | rBV2     | 363            | 363           | 0.03%           | 0.006%        |
| 9         | 3.922       | 330           | 331         | 333          | rVB      | 404            | 247           | 0.02%           | 0.004%        |
| 10        | 4.019       | 334           | 347         | 360          | rBV2     | 94997          | 310711        | 26.91%          | 5.019%        |
| 11        | 4.214       | 378           | 379         | 380          | rBV      | 445            | 270           | 0.02%           | 0.004%        |
| 12        | 4.251       | 383           | 385         | 389          | rVB2     | 347            | 359           | 0.03%           | 0.006%        |
| 13        | 4.409       | 401           | 411         | 414          | rVV4     | 1121           | 2632          | 0.23%           | 0.043%        |
| 14        | 4.531       | 429           | 431         | 435          | rVB2     | 304            | 413           | 0.04%           | 0.007%        |
| 15        | 4.708       | 457           | 460         | 461          | rBV2     | 344            | 398           | 0.03%           | 0.006%        |
| 16        | 4.928       | 483           | 496         | 503          | rBV6     | 2916           | 10762         | 0.93%           | 0.174%        |
| 17        | 5.007       | 506           | 509         | 511          | rVV      | 331            | 309           | 0.03%           | 0.005%        |
| 18        | 5.117       | 521           | 527         | 528          | rBV2     | 435            | 741           | 0.06%           | 0.012%        |
| 19        | 5.135       | 528           | 530         | 531          | rBV      | 405            | 273           | 0.02%           | 0.004%        |
| 20        | 5.336       | 562           | 563         | 565          | rBV2     | 397            | 300           | 0.03%           | 0.005%        |
| 21        | 5.403       | 573           | 574         | 577          | rBV      | 456            | 457           | 0.04%           | 0.007%        |
| 22        | 5.592       | 603           | 605         | 607          | rVV      | 523            | 366           | 0.03%           | 0.006%        |
| 23        | 5.617       | 607           | 609         | 612          | rVV2     | 354            | 410           | 0.04%           | 0.007%        |
| 24        | 5.708       | 622           | 624         | 627          | rBV2     | 315            | 368           | 0.03%           | 0.006%        |
| 25        | 5.745       | 627           | 630         | 633          | rBV2     | 353            | 484           | 0.04%           | 0.008%        |
| 26        | 5.927       | 654           | 660         | 661          | rBV4     | 1419           | 2415          | 0.21%           | 0.039%        |
| 27        | 6.037       | 676           | 678         | 680          | rBV2     | 250            | 259           | 0.02%           | 0.004%        |
| 28        | 6.184       | 700           | 702         | 705          | rBV2     | 392            | 447           | 0.04%           | 0.007%        |
| 29        | 6.403       | 737           | 738         | 742          | rVB2     | 389            | 296           | 0.03%           | 0.005%        |
| 30        | 6.854       | 810           | 812         | 815          | rBV2     | 233            | 283           | 0.02%           | 0.005%        |
| 31        | 6.897       | 815           | 819         | 822          | rVB2     | 282            | 387           | 0.03%           | 0.006%        |
| 32        | 6.976       | 830           | 832         | 834          | rBV2     | 359            | 352           | 0.03%           | 0.006%        |
| 33        | 6.994       | 834           | 835         | 839          | rVB      | 545            | 439           | 0.04%           | 0.007%        |
| 34        | 7.080       | 839           | 849         | 853          | rBV      | 49749          | 138153        | 11.97%          | 2.232%        |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 7.494  | 915  | 917  | 918  | rBV  | 412    | 342     | 0.03%   | 0.006%  |
| 36 | 7.513  | 918  | 920  | 921  | rVV  | 544    | 318     | 0.03%   | 0.005%  |
| 37 | 7.647  | 931  | 942  | 953  | rBV  | 200874 | 489906  | 42.43%  | 7.914%  |
| 38 | 7.738  | 956  | 957  | 960  | rVB  | 522    | 409     | 0.04%   | 0.007%  |
| 39 | 7.884  | 977  | 981  | 984  | rBV4 | 423    | 553     | 0.05%   | 0.009%  |
| 40 | 7.939  | 984  | 990  | 1002 | rVV7 | 2766   | 6522    | 0.56%   | 0.105%  |
| 41 | 8.037  | 1004 | 1006 | 1009 | rVB2 | 330    | 352     | 0.03%   | 0.006%  |
| 42 | 8.195  | 1029 | 1032 | 1033 | rBV2 | 299    | 240     | 0.02%   | 0.004%  |
| 43 | 8.275  | 1033 | 1045 | 1062 | rVV2 | 382646 | 1154579 | 100.00% | 18.650% |
| 44 | 8.397  | 1063 | 1065 | 1069 | rVB3 | 1109   | 1094    | 0.09%   | 0.018%  |
| 45 | 8.561  | 1091 | 1092 | 1095 | rBV2 | 390    | 307     | 0.03%   | 0.005%  |
| 46 | 8.622  | 1098 | 1102 | 1103 | rBV  | 411    | 405     | 0.04%   | 0.007%  |
| 47 | 8.683  | 1108 | 1112 | 1114 | rBV2 | 590    | 966     | 0.08%   | 0.016%  |
| 48 | 8.842  | 1129 | 1138 | 1150 | rVV  | 246749 | 500724  | 43.37%  | 8.088%  |
| 49 | 9.079  | 1172 | 1177 | 1182 | rVV3 | 1110   | 1656    | 0.14%   | 0.027%  |
| 50 | 9.116  | 1182 | 1183 | 1187 | rVB2 | 245    | 238     | 0.02%   | 0.004%  |
| 51 | 9.268  | 1200 | 1208 | 1216 | rBV  | 273969 | 571157  | 49.47%  | 9.226%  |
| 52 | 9.427  | 1231 | 1234 | 1236 | rVB2 | 486    | 585     | 0.05%   | 0.009%  |
| 53 | 9.451  | 1236 | 1238 | 1240 | rBV2 | 238    | 281     | 0.02%   | 0.005%  |
| 54 | 9.500  | 1244 | 1246 | 1252 | rVV3 | 214    | 363     | 0.03%   | 0.006%  |
| 55 | 9.658  | 1265 | 1272 | 1279 | rBV2 | 2221   | 4581    | 0.40%   | 0.074%  |
| 56 | 9.750  | 1282 | 1287 | 1290 | rBV3 | 561    | 1108    | 0.10%   | 0.018%  |
| 57 | 9.854  | 1302 | 1304 | 1305 | rBV2 | 337    | 291     | 0.03%   | 0.005%  |
| 58 | 9.957  | 1318 | 1321 | 1322 | rBV2 | 415    | 501     | 0.04%   | 0.008%  |
| 59 | 10.030 | 1326 | 1333 | 1342 | rVV  | 92737  | 171137  | 14.82%  | 2.764%  |
| 60 | 10.207 | 1356 | 1362 | 1366 | rBV5 | 1414   | 2565    | 0.22%   | 0.041%  |
| 61 | 10.323 | 1373 | 1381 | 1389 | rBV  | 407615 | 717649  | 62.16%  | 11.592% |
| 62 | 10.579 | 1415 | 1423 | 1429 | rBV  | 47562  | 85449   | 7.40%   | 1.380%  |
| 63 | 10.701 | 1437 | 1443 | 1451 | rVB  | 40112  | 73208   | 6.34%   | 1.183%  |
| 64 | 10.920 | 1473 | 1479 | 1493 | rBV  | 154969 | 274891  | 23.81%  | 4.440%  |
| 65 | 11.061 | 1497 | 1502 | 1513 | rVB2 | 18800  | 32863   | 2.85%   | 0.531%  |
| 66 | 11.140 | 1513 | 1515 | 1516 | rBV2 | 475    | 370     | 0.03%   | 0.006%  |
| 67 | 11.170 | 1518 | 1520 | 1526 | rVB4 | 1695   | 2188    | 0.19%   | 0.035%  |
| 68 | 11.219 | 1526 | 1528 | 1529 | rBV  | 754    | 466     | 0.04%   | 0.008%  |
| 69 | 11.262 | 1533 | 1535 | 1539 | rBV5 | 609    | 1052    | 0.09%   | 0.017%  |
| 70 | 11.439 | 1558 | 1564 | 1570 | rVB  | 18395  | 31328   | 2.71%   | 0.506%  |
| 71 | 11.628 | 1588 | 1595 | 1608 | rVB  | 227555 | 394385  | 34.16%  | 6.371%  |

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 Max Peaks: 100  
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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 11.835 | 1625 | 1629 | 1633 | rBV6 | 1701   | 2862   | 0.25%  | 0.046% |
| 73  | 12.365 | 1714 | 1716 | 1720 | rBV2 | 490    | 619    | 0.05%  | 0.010% |
| 74  | 12.469 | 1730 | 1733 | 1736 | rVB3 | 1426   | 1853   | 0.16%  | 0.030% |
| 75  | 12.530 | 1742 | 1743 | 1744 | rBV  | 689    | 338    | 0.03%  | 0.005% |
| 76  | 12.548 | 1744 | 1746 | 1749 | rVV2 | 426    | 440    | 0.04%  | 0.007% |
| 77  | 12.603 | 1749 | 1755 | 1761 | rVV  | 47255  | 79816  | 6.91%  | 1.289% |
| 78  | 12.688 | 1761 | 1769 | 1778 | rVB  | 225403 | 371713 | 32.19% | 6.004% |
| 79  | 12.756 | 1778 | 1780 | 1781 | rBV  | 440    | 444    | 0.04%  | 0.007% |
| 80  | 12.859 | 1793 | 1797 | 1801 | rBV4 | 569    | 842    | 0.07%  | 0.014% |
| 81  | 12.932 | 1804 | 1809 | 1815 | rVB2 | 9025   | 14257  | 1.23%  | 0.230% |
| 82  | 13.018 | 1822 | 1823 | 1825 | rBV  | 399    | 315    | 0.03%  | 0.005% |
| 83  | 13.073 | 1830 | 1832 | 1836 | rVB3 | 530    | 556    | 0.05%  | 0.009% |
| 84  | 13.188 | 1849 | 1851 | 1854 | rBV2 | 1072   | 1216   | 0.11%  | 0.020% |
| 85  | 13.243 | 1857 | 1860 | 1862 | rBV2 | 757    | 905    | 0.08%  | 0.015% |
| 86  | 13.292 | 1865 | 1868 | 1874 | rVB2 | 7184   | 10839  | 0.94%  | 0.175% |
| 87  | 13.408 | 1881 | 1887 | 1892 | rBV4 | 2401   | 4238   | 0.37%  | 0.068% |
| 88  | 13.469 | 1893 | 1897 | 1899 | rBV3 | 820    | 947    | 0.08%  | 0.015% |
| 89  | 13.505 | 1901 | 1903 | 1905 | rBV2 | 992    | 636    | 0.06%  | 0.010% |
| 90  | 13.554 | 1905 | 1911 | 1918 | rBV  | 90052  | 146345 | 12.68% | 2.364% |
| 91  | 13.761 | 1941 | 1945 | 1950 | rBV7 | 1831   | 3700   | 0.32%  | 0.060% |
| 92  | 13.853 | 1953 | 1960 | 1967 | rBV  | 140088 | 232052 | 20.10% | 3.748% |
| 93  | 14.066 | 1990 | 1995 | 2001 | rVB3 | 17106  | 28197  | 2.44%  | 0.455% |
| 94  | 14.194 | 2013 | 2016 | 2019 | rBV2 | 1151   | 1650   | 0.14%  | 0.027% |
| 95  | 14.328 | 2030 | 2038 | 2041 | rBV4 | 2222   | 5118   | 0.44%  | 0.083% |
| 96  | 14.481 | 2062 | 2063 | 2064 | rBV  | 518    | 263    | 0.02%  | 0.004% |
| 97  | 14.719 | 2099 | 2102 | 2108 | rVB4 | 1623   | 2559   | 0.22%  | 0.041% |
| 98  | 15.084 | 2160 | 2162 | 2165 | rBV3 | 703    | 661    | 0.06%  | 0.011% |
| 99  | 15.438 | 2214 | 2220 | 2225 | rBV2 | 10597  | 16908  | 1.46%  | 0.273% |
| 100 | 16.377 | 2372 | 2374 | 2375 | rBV2 | 792    | 396    | 0.03%  | 0.006% |

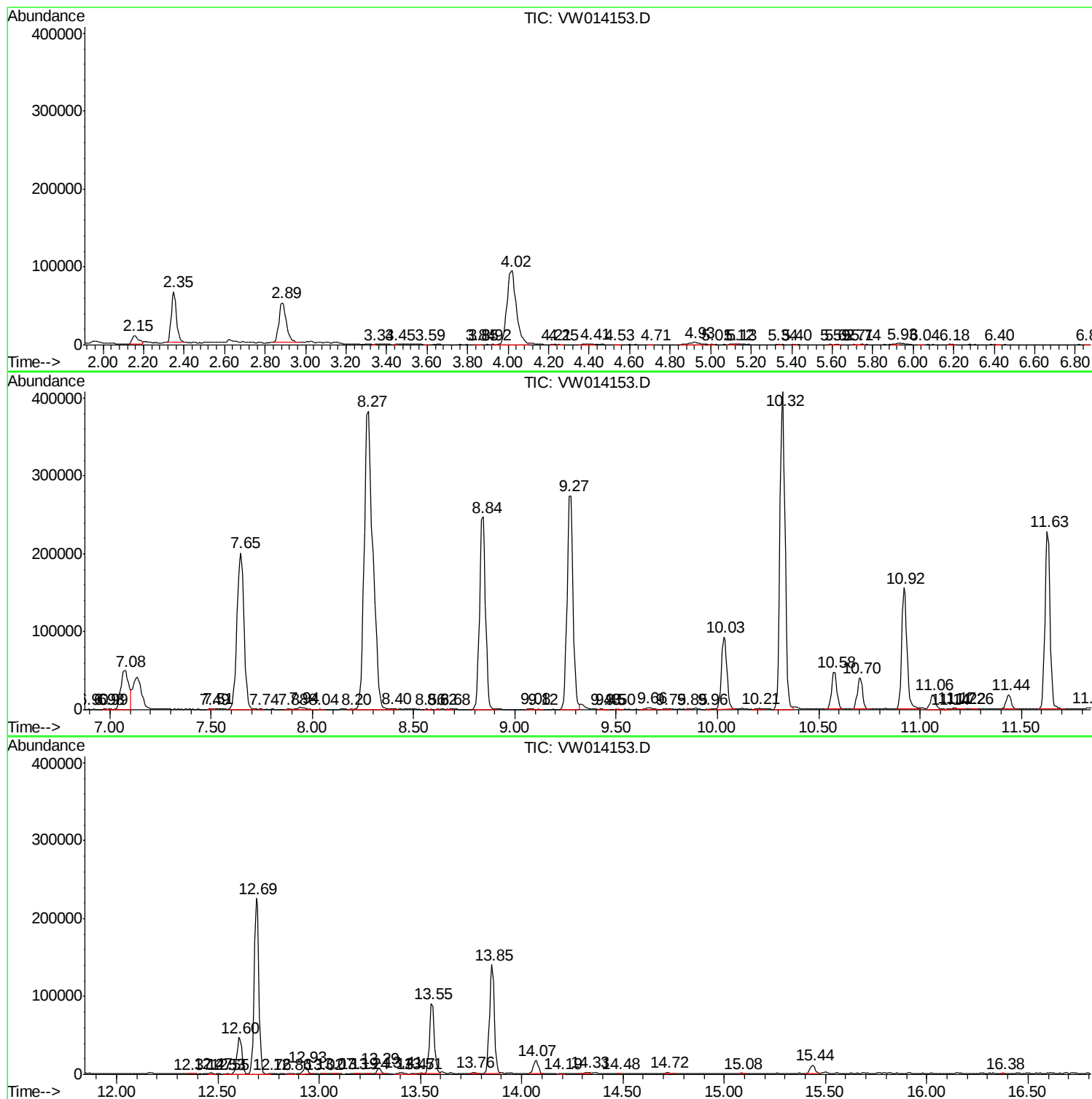
Sum of corrected areas: 6190675

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW112719\  
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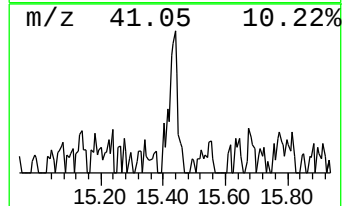
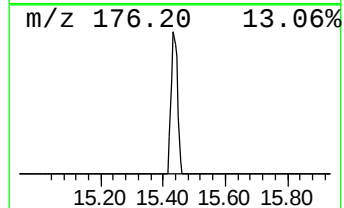
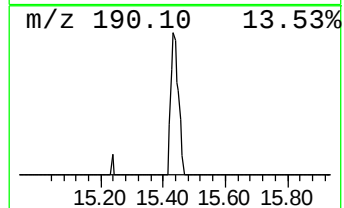
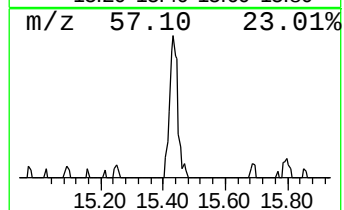
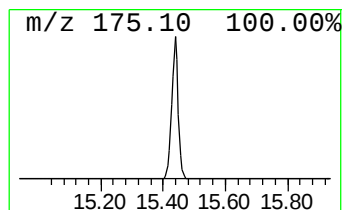
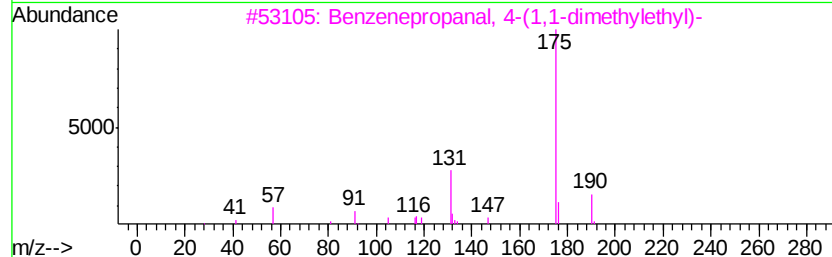
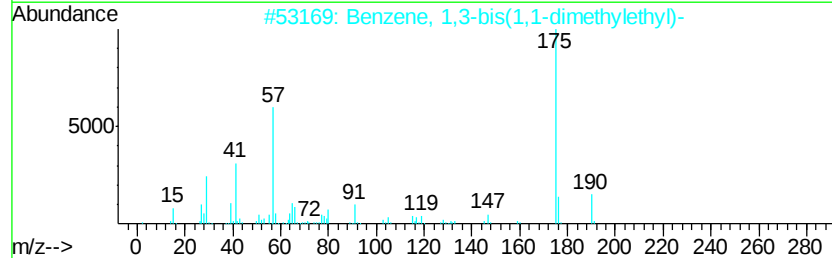
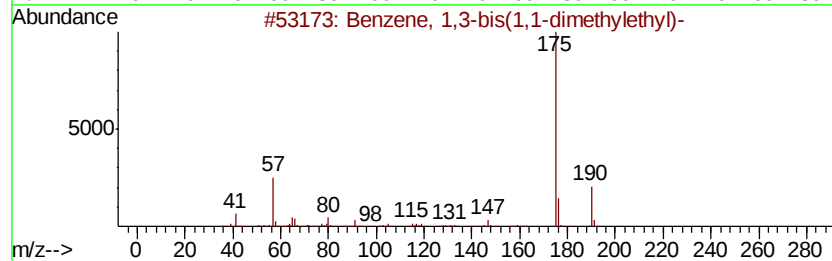
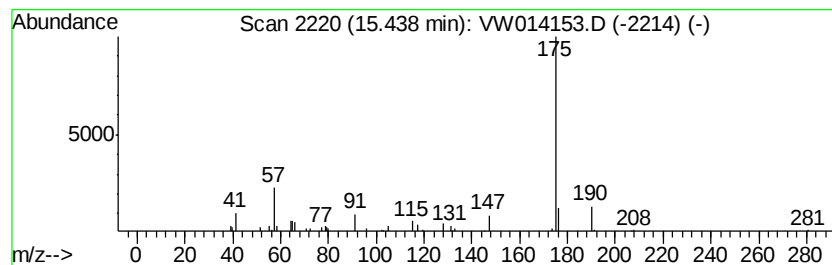
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.44 | 2.89 ug/L | 16908 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-bis(1,1-dimethylethyl)-    | 190 | C14H22  | 001014-60-4 | 83   |
| 2    |    | Benzene, 1,3-bis(1,1-dimethylethyl)-    | 190 | C14H22  | 001014-60-4 | 80   |
| 3    |    | Benzenepropanal, 4-(1,1-dimethylethyl)- | 190 | C13H18O | 018127-01-0 | 80   |
| 4    |    | p-Pentylacetophenone                    | 190 | C13H18O | 037593-02-5 | 64   |
| 5    |    | Benzene, 1,4-bis(1,1-dimethylethyl)-    | 190 | C14H22  | 001012-72-2 | 64   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| -----                |       |         |       |          |                       |       |        |      |
| Benzene, 1,3-bis(... | 15.44 | 2.9     | ug/L  | 16908    | 3                     | 13.56 | 146345 | 25.0 |