

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120519\  
 Data File : VW014223.D  
 Acq On : 05 Dec 2019 19:42  
 Operator : SY/VA  
 Sample : K6149-06  
 Misc : 5.97G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DBBL4

## 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\SOM2WLM120519S.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         | 1.959       | 5             | 9           | 21           | rVB4     | 11832          | 30736         | 0.65%           | 0.086%        |
| 2         | 2.154       | 36            | 41          | 47           | rBV      | 20261          | 41776         | 0.88%           | 0.116%        |
| 3         | 2.349       | 67            | 73          | 84           | rVB      | 403816         | 765306        | 16.16%          | 2.131%        |
| 4         | 2.885       | 154           | 161         | 178          | rVB      | 234693         | 612545        | 12.94%          | 1.705%        |
| 5         | 3.233       | 216           | 218         | 227          | rVB7     | 1838           | 3276          | 0.07%           | 0.009%        |
| 6         | 3.379       | 235           | 242         | 250          | rVB6     | 3524           | 9374          | 0.20%           | 0.026%        |
| 7         | 3.525       | 262           | 266         | 271          | rBV5     | 2511           | 5022          | 0.11%           | 0.014%        |
| 8         | 3.678       | 289           | 291         | 294          | rVB3     | 1003           | 835           | 0.02%           | 0.002%        |
| 9         | 3.720       | 297           | 298         | 301          | rBV3     | 1127           | 1166          | 0.02%           | 0.003%        |
| 10        | 4.013       | 332           | 346         | 359          | rBV      | 549153         | 1802216       | 38.06%          | 5.017%        |
| 11        | 4.385       | 399           | 407         | 417          | rBV3     | 9076           | 29248         | 0.62%           | 0.081%        |
| 12        | 4.483       | 421           | 423         | 428          | rVV5     | 520            | 738           | 0.02%           | 0.002%        |
| 13        | 4.580       | 437           | 439         | 441          | rBV2     | 1190           | 1418          | 0.03%           | 0.004%        |
| 14        | 4.659       | 449           | 452         | 453          | rBV3     | 784            | 815           | 0.02%           | 0.002%        |
| 15        | 4.915       | 481           | 494         | 510          | rBV3     | 37262          | 147483        | 3.11%           | 0.411%        |
| 16        | 5.043       | 512           | 515         | 516          | rVB3     | 875            | 737           | 0.02%           | 0.002%        |
| 17        | 5.092       | 518           | 523         | 525          | rBV4     | 1115           | 2025          | 0.04%           | 0.006%        |
| 18        | 5.123       | 525           | 528         | 531          | rBV3     | 1191           | 1751          | 0.04%           | 0.005%        |
| 19        | 5.428       | 574           | 578         | 579          | rBV3     | 752            | 937           | 0.02%           | 0.003%        |
| 20        | 5.495       | 586           | 589         | 593          | rVB2     | 1117           | 1647          | 0.03%           | 0.005%        |
| 21        | 5.623       | 607           | 610         | 615          | rVB4     | 1403           | 1783          | 0.04%           | 0.005%        |
| 22        | 5.726       | 623           | 627         | 629          | rBV3     | 1486           | 2097          | 0.04%           | 0.006%        |
| 23        | 5.757       | 629           | 632         | 634          | rBV3     | 1210           | 1506          | 0.03%           | 0.004%        |
| 24        | 5.940       | 652           | 662         | 672          | rVB7     | 6086           | 18477         | 0.39%           | 0.051%        |
| 25        | 6.147       | 692           | 696         | 698          | rBV2     | 858            | 1251          | 0.03%           | 0.003%        |
| 26        | 6.293       | 719           | 720         | 724          | rVB2     | 835            | 897           | 0.02%           | 0.002%        |
| 27        | 6.397       | 734           | 737         | 738          | rBV2     | 1242           | 1394          | 0.03%           | 0.004%        |
| 28        | 6.543       | 760           | 761         | 763          | rBV      | 1129           | 738           | 0.02%           | 0.002%        |
| 29        | 6.628       | 773           | 775         | 777          | rBV2     | 687            | 723           | 0.02%           | 0.002%        |
| 30        | 6.903       | 813           | 820         | 826          | rBV8     | 5368           | 16358         | 0.35%           | 0.046%        |
| 31        | 7.074       | 838           | 848         | 852          | rBV      | 130031         | 334433        | 7.06%           | 0.931%        |
| 32        | 7.135       | 853           | 858         | 876          | rVB2     | 184297         | 511303        | 10.80%          | 1.423%        |
| 33        | 7.415       | 902           | 904         | 906          | rVB3     | 1656           | 1071          | 0.02%           | 0.003%        |
| 34        | 7.494       | 910           | 917         | 918          | rBV6     | 4243           | 8115          | 0.17%           | 0.023%        |

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 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 7.641  | 931  | 941  | 954  | rVB  | 722805  | 1801833 | 38.05%  | 5.016%  |
| 36 | 7.799  | 963  | 967  | 968  | rBV3 | 987     | 1052    | 0.02%   | 0.003%  |
| 37 | 7.878  | 976  | 980  | 981  | rBV3 | 1732    | 1843    | 0.04%   | 0.005%  |
| 38 | 7.915  | 984  | 986  | 987  | rVV2 | 1605    | 1403    | 0.03%   | 0.004%  |
| 39 | 7.945  | 987  | 991  | 996  | rVB7 | 4169    | 8872    | 0.19%   | 0.025%  |
| 40 | 8.055  | 1005 | 1009 | 1011 | rBV2 | 1796    | 2046    | 0.04%   | 0.006%  |
| 41 | 8.147  | 1020 | 1024 | 1025 | rBV4 | 1723    | 1834    | 0.04%   | 0.005%  |
| 42 | 8.275  | 1028 | 1045 | 1061 | rBV2 | 1596602 | 4735381 | 100.00% | 13.183% |
| 43 | 8.579  | 1094 | 1095 | 1097 | rBV2 | 1506    | 755     | 0.02%   | 0.002%  |
| 44 | 8.634  | 1099 | 1104 | 1107 | rVB6 | 3167    | 4443    | 0.09%   | 0.012%  |
| 45 | 8.695  | 1108 | 1114 | 1121 | rVB7 | 5648    | 12033   | 0.25%   | 0.033%  |
| 46 | 8.750  | 1121 | 1123 | 1128 | rVB4 | 1073    | 1013    | 0.02%   | 0.003%  |
| 47 | 8.835  | 1129 | 1137 | 1148 | rBV  | 1536028 | 3074184 | 64.92%  | 8.558%  |
| 48 | 9.031  | 1164 | 1169 | 1174 | rBV3 | 11067   | 21610   | 0.46%   | 0.060%  |
| 49 | 9.268  | 1199 | 1208 | 1218 | rBV  | 1010514 | 2065364 | 43.62%  | 5.750%  |
| 50 | 9.524  | 1248 | 1250 | 1253 | rVB3 | 1222    | 1132    | 0.02%   | 0.003%  |
| 51 | 9.665  | 1272 | 1273 | 1279 | rVB4 | 1806    | 1787    | 0.04%   | 0.005%  |
| 52 | 9.756  | 1282 | 1288 | 1294 | rBV4 | 9498    | 19822   | 0.42%   | 0.055%  |
| 53 | 9.811  | 1294 | 1297 | 1298 | rBV3 | 1169    | 1407    | 0.03%   | 0.004%  |
| 54 | 9.847  | 1301 | 1303 | 1304 | rBV2 | 971     | 712     | 0.02%   | 0.002%  |
| 55 | 9.890  | 1304 | 1310 | 1318 | rVB  | 25218   | 51270   | 1.08%   | 0.143%  |
| 56 | 9.963  | 1320 | 1322 | 1323 | rBV2 | 1274    | 717     | 0.02%   | 0.002%  |
| 57 | 10.030 | 1324 | 1333 | 1343 | rBV  | 534897  | 984333  | 20.79%  | 2.740%  |
| 58 | 10.207 | 1356 | 1362 | 1365 | rBV2 | 20308   | 37235   | 0.79%   | 0.104%  |
| 59 | 10.244 | 1365 | 1368 | 1373 | rVB3 | 18734   | 29228   | 0.62%   | 0.081%  |
| 60 | 10.323 | 1373 | 1381 | 1389 | rBV  | 2238852 | 3931332 | 83.02%  | 10.944% |
| 61 | 10.500 | 1406 | 1410 | 1415 | rVB7 | 3156    | 6858    | 0.14%   | 0.019%  |
| 62 | 10.573 | 1415 | 1422 | 1434 | rBV  | 354862  | 619472  | 13.08%  | 1.725%  |
| 63 | 10.701 | 1436 | 1443 | 1450 | rBV  | 248722  | 454360  | 9.60%   | 1.265%  |
| 64 | 10.774 | 1451 | 1455 | 1457 | rBV4 | 5842    | 7978    | 0.17%   | 0.022%  |
| 65 | 10.920 | 1473 | 1479 | 1491 | rBV  | 510026  | 874192  | 18.46%  | 2.434%  |
| 66 | 11.061 | 1496 | 1502 | 1515 | rVV  | 159462  | 277767  | 5.87%   | 0.773%  |
| 67 | 11.176 | 1516 | 1521 | 1528 | rVB3 | 16813   | 29769   | 0.63%   | 0.083%  |
| 68 | 11.439 | 1555 | 1564 | 1571 | rVB2 | 129814  | 237378  | 5.01%   | 0.661%  |
| 69 | 11.628 | 1588 | 1595 | 1610 | rVB  | 2159368 | 3557203 | 75.12%  | 9.903%  |
| 70 | 12.164 | 1679 | 1683 | 1690 | rVB7 | 7053    | 17088   | 0.36%   | 0.048%  |
| 71 | 12.231 | 1692 | 1694 | 1695 | rBV2 | 1973    | 1451    | 0.03%   | 0.004%  |

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 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 12.335 | 1709 | 1711 | 1716 | rBV5 | 2512    | 3976    | 0.08%  | 0.011% |
| 73  | 12.469 | 1728 | 1733 | 1736 | rBV6 | 5194    | 9137    | 0.19%  | 0.025% |
| 74  | 12.609 | 1748 | 1756 | 1762 | rBV  | 302877  | 542301  | 11.45% | 1.510% |
| 75  | 12.688 | 1762 | 1769 | 1777 | rBV  | 730709  | 1212988 | 25.62% | 3.377% |
| 76  | 12.890 | 1792 | 1802 | 1804 | rBV8 | 8674    | 18925   | 0.40%  | 0.053% |
| 77  | 12.932 | 1804 | 1809 | 1817 | rVB  | 80728   | 132163  | 2.79%  | 0.368% |
| 78  | 13.036 | 1822 | 1826 | 1829 | rVV4 | 12074   | 18226   | 0.38%  | 0.051% |
| 79  | 13.079 | 1829 | 1833 | 1836 | rVB3 | 9230    | 13366   | 0.28%  | 0.037% |
| 80  | 13.158 | 1844 | 1846 | 1848 | rBV2 | 2906    | 3072    | 0.06%  | 0.009% |
| 81  | 13.194 | 1848 | 1852 | 1857 | rVV2 | 11486   | 19402   | 0.41%  | 0.054% |
| 82  | 13.292 | 1863 | 1868 | 1878 | rVB3 | 66787   | 115467  | 2.44%  | 0.321% |
| 83  | 13.408 | 1879 | 1887 | 1892 | rBV2 | 23107   | 43272   | 0.91%  | 0.120% |
| 84  | 13.475 | 1894 | 1898 | 1899 | rBV3 | 8079    | 10622   | 0.22%  | 0.030% |
| 85  | 13.554 | 1905 | 1911 | 1918 | rBV  | 1893970 | 3036348 | 64.12% | 8.453% |
| 86  | 13.755 | 1939 | 1944 | 1948 | rBV5 | 27458   | 49003   | 1.03%  | 0.136% |
| 87  | 13.792 | 1948 | 1950 | 1953 | rVV4 | 10139   | 10876   | 0.23%  | 0.030% |
| 88  | 13.853 | 1953 | 1960 | 1966 | rBV  | 1680518 | 2787950 | 58.87% | 7.761% |
| 89  | 14.017 | 1983 | 1987 | 1990 | rBV4 | 11229   | 19745   | 0.42%  | 0.055% |
| 90  | 14.066 | 1990 | 1995 | 2007 | rVB2 | 152484  | 278492  | 5.88%  | 0.775% |
| 91  | 14.194 | 2010 | 2016 | 2024 | rBV2 | 16569   | 31867   | 0.67%  | 0.089% |
| 92  | 14.322 | 2032 | 2037 | 2041 | rBV5 | 21000   | 34606   | 0.73%  | 0.096% |
| 93  | 14.725 | 2099 | 2103 | 2108 | rVB4 | 13929   | 20298   | 0.43%  | 0.057% |
| 94  | 14.828 | 2118 | 2120 | 2123 | rBV4 | 1901    | 1937    | 0.04%  | 0.005% |
| 95  | 15.438 | 2211 | 2220 | 2226 | rBV  | 124959  | 224448  | 4.74%  | 0.625% |
| 96  | 15.499 | 2226 | 2230 | 2234 | rVB  | 11583   | 19918   | 0.42%  | 0.055% |
| 97  | 15.596 | 2244 | 2246 | 2251 | rBV6 | 2585    | 3532    | 0.07%  | 0.010% |
| 98  | 15.688 | 2257 | 2261 | 2268 | rVB9 | 7383    | 14176   | 0.30%  | 0.039% |
| 99  | 15.773 | 2271 | 2275 | 2277 | rBV5 | 5337    | 8294    | 0.18%  | 0.023% |
| 100 | 16.596 | 2408 | 2410 | 2411 | rBV2 | 1924    | 1398    | 0.03%  | 0.004% |

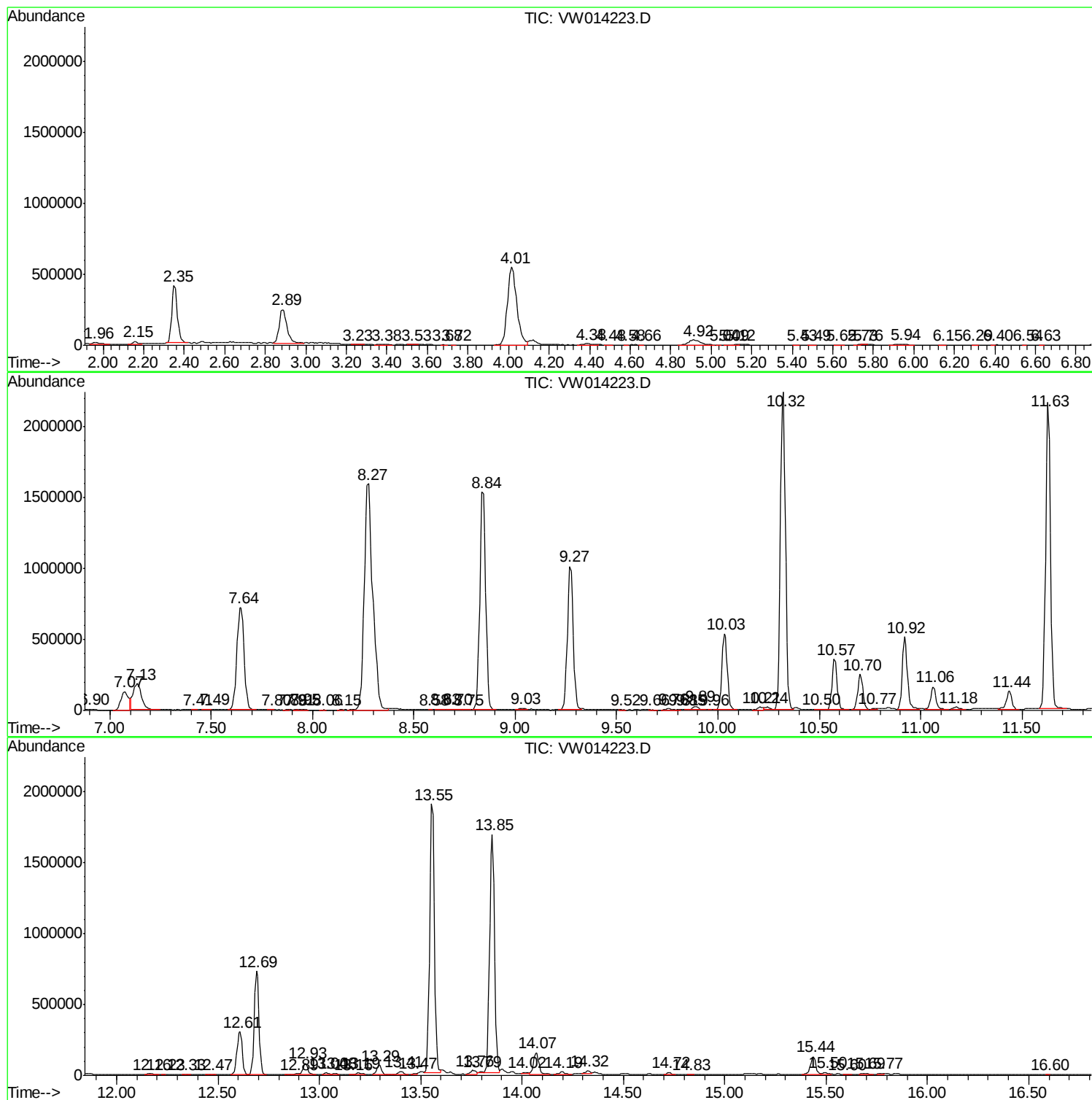
Sum of corrected areas: 35921159

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW120519\  
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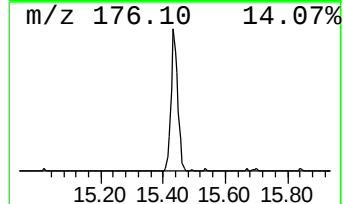
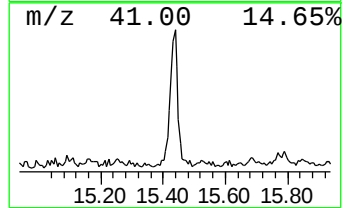
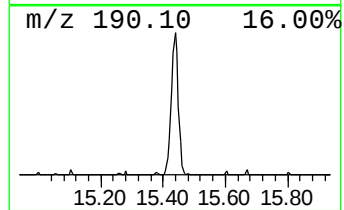
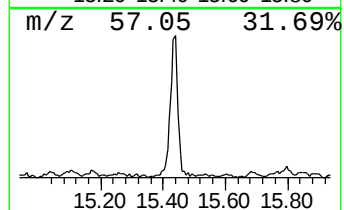
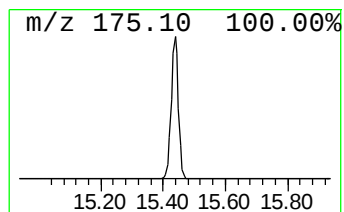
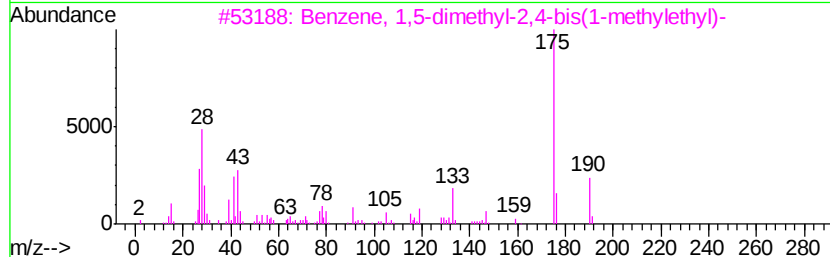
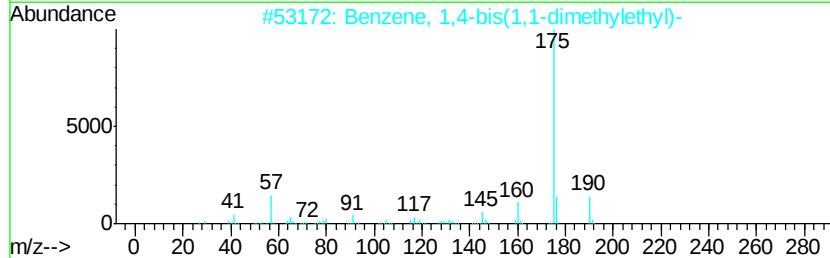
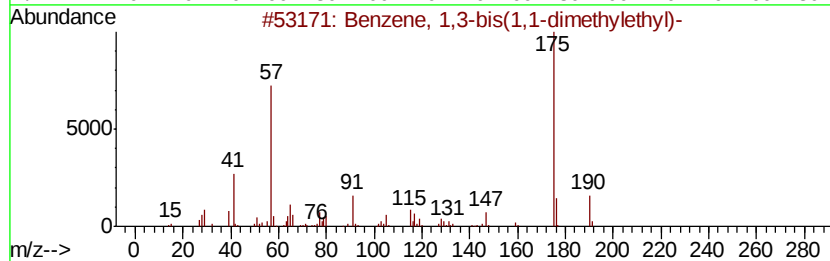
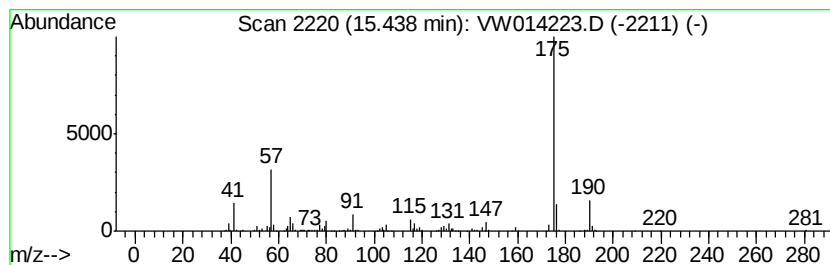
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.44 | 1.85 ug/L | 224448 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,3-bis(1,1-dimethylethyl)-          | 190 | C14H22  | 001014-60-4 | 91   |
| 2    |    |   | Benzene, 1,4-bis(1,1-dimethylethyl)-          | 190 | C14H22  | 001012-72-2 | 87   |
| 3    |    |   | Benzene, 1,5-dimethyl-2,4-bis(1-methylethyl)- | 190 | C14H22  | 005186-68-5 | 83   |
| 4    |    |   | Benzene, 1,3-bis(1,1-dimethylethyl)-          | 190 | C14H22  | 001014-60-4 | 81   |
| 5    |    |   | m-Cymene, 5-tert-butyl-                       | 190 | C14H22  | 029577-19-3 | 74   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| -----                |       |         |       |          |                       |       |         |      |
| Benzene, 1,3-bis(... | 15.44 | 1.9     | ug/L  | 224448   | 3                     | 13.55 | 3036350 | 25.0 |