

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032019\  
 Data File : VW009298.D  
 Acq On : 20 Mar 2019 20:54  
 Operator : SY/VA  
 Sample : VW0320SBL02  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VBLK06

## 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\SOM2WLM031419S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.361    | 70         | 75       | 85        | rVB   | 83386       | 181129     | 13.30%       | 1.681%     |
| 2      | 2.891    | 157        | 162      | 175       | rVB   | 74673       | 201348     | 14.78%       | 1.869%     |
| 3      | 4.019    | 336        | 347      | 363       | rBV2  | 145489      | 504011     | 37.00%       | 4.678%     |
| 4      | 4.263    | 385        | 387      | 389       | rVB   | 2570        | 1918       | 0.14%        | 0.018%     |
| 5      | 4.397    | 403        | 409      | 411       | rBV2  | 8758        | 15424      | 1.13%        | 0.143%     |
| 6      | 4.690    | 456        | 457      | 459       | rBV   | 2126        | 1110       | 0.08%        | 0.010%     |
| 7      | 4.818    | 474        | 478      | 479       | rBV   | 1832        | 2424       | 0.18%        | 0.022%     |
| 8      | 4.867    | 484        | 486      | 487       | rBV   | 1943        | 1470       | 0.11%        | 0.014%     |
| 9      | 4.995    | 504        | 507      | 510       | rVB   | 4235        | 5353       | 0.39%        | 0.050%     |
| 10     | 5.202    | 540        | 541      | 544       | rVB   | 2513        | 1309       | 0.10%        | 0.012%     |
| 11     | 5.312    | 557        | 559      | 560       | rVB   | 2064        | 1185       | 0.09%        | 0.011%     |
| 12     | 5.330    | 560        | 562      | 563       | rBV   | 2266        | 1589       | 0.12%        | 0.015%     |
| 13     | 5.549    | 596        | 598      | 600       | rBV   | 1307        | 1088       | 0.08%        | 0.010%     |
| 14     | 5.720    | 623        | 626      | 627       | rBV   | 1854        | 1844       | 0.14%        | 0.017%     |
| 15     | 5.921    | 651        | 659      | 660       | rBV3  | 7046        | 11181      | 0.82%        | 0.104%     |
| 16     | 6.068    | 681        | 683      | 684       | rBV   | 1471        | 1000       | 0.07%        | 0.009%     |
| 17     | 6.098    | 687        | 688      | 690       | rBV2  | 1662        | 1268       | 0.09%        | 0.012%     |
| 18     | 6.135    | 690        | 694      | 696       | rBV2  | 2164        | 2846       | 0.21%        | 0.026%     |
| 19     | 6.397    | 734        | 737      | 739       | rVB   | 2242        | 2891       | 0.21%        | 0.027%     |
| 20     | 6.421    | 739        | 741      | 743       | rBV   | 3451        | 3278       | 0.24%        | 0.030%     |
| 21     | 6.446    | 743        | 745      | 747       | rBV3  | 1721        | 1786       | 0.13%        | 0.017%     |
| 22     | 6.787    | 800        | 801      | 803       | rVB   | 2001        | 1169       | 0.09%        | 0.011%     |
| 23     | 6.860    | 811        | 813      | 814       | rBV   | 2106        | 1427       | 0.10%        | 0.013%     |
| 24     | 7.074    | 840        | 848      | 859       | rBV   | 70026       | 196162     | 14.40%       | 1.821%     |
| 25     | 7.537    | 922        | 924      | 927       | rBV   | 1841        | 1544       | 0.11%        | 0.014%     |
| 26     | 7.647    | 932        | 942      | 952       | rVV   | 250329      | 608970     | 44.70%       | 5.652%     |
| 27     | 7.744    | 956        | 958      | 959       | rBV   | 1740        | 1027       | 0.08%        | 0.010%     |
| 28     | 7.799    | 962        | 967      | 970       | rBV3  | 1674        | 2820       | 0.21%        | 0.026%     |
| 29     | 7.897    | 979        | 983      | 985       | rBV2  | 2047        | 2216       | 0.16%        | 0.021%     |
| 30     | 8.000    | 998        | 1000     | 1001      | rBV   | 1451        | 1144       | 0.08%        | 0.011%     |
| 31     | 8.110    | 1016       | 1018     | 1019      | rBV   | 2086        | 1783       | 0.13%        | 0.017%     |
| 32     | 8.207    | 1031       | 1034     | 1035      | rBV3  | 1762        | 1966       | 0.14%        | 0.018%     |
| 33     | 8.275    | 1036       | 1045     | 1060      | rVV2  | 454027      | 1362236    | 100.00%      | 12.643%    |
| 34     | 8.470    | 1075       | 1077     | 1080      | rBV3  | 1801        | 1435       | 0.11%        | 0.013%     |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 8.738  | 1120 | 1121 | 1124 | rBV2 | 1515   | 1402    | 0.10%  | 0.013%  |
| 36 | 8.841  | 1129 | 1138 | 1148 | rBV  | 455157 | 884751  | 64.95% | 8.211%  |
| 37 | 9.006  | 1162 | 1165 | 1166 | rBV  | 2103   | 2402    | 0.18%  | 0.022%  |
| 38 | 9.037  | 1168 | 1170 | 1171 | rBV  | 2473   | 1373    | 0.10%  | 0.013%  |
| 39 | 9.152  | 1187 | 1189 | 1190 | rBV  | 1398   | 1108    | 0.08%  | 0.010%  |
| 40 | 9.189  | 1194 | 1195 | 1197 | rBV  | 1808   | 1199    | 0.09%  | 0.011%  |
| 41 | 9.274  | 1199 | 1209 | 1218 | rBV  | 313992 | 642190  | 47.14% | 5.960%  |
| 42 | 9.506  | 1243 | 1247 | 1252 | rVB  | 2864   | 4802    | 0.35%  | 0.045%  |
| 43 | 9.543  | 1252 | 1253 | 1254 | rBV  | 3125   | 1740    | 0.13%  | 0.016%  |
| 44 | 9.585  | 1258 | 1260 | 1261 | rVV  | 1400   | 962     | 0.07%  | 0.009%  |
| 45 | 9.762  | 1282 | 1289 | 1297 | rBV4 | 15900  | 36224   | 2.66%  | 0.336%  |
| 46 | 9.890  | 1303 | 1310 | 1318 | rBV3 | 38195  | 88360   | 6.49%  | 0.820%  |
| 47 | 10.030 | 1325 | 1333 | 1341 | rBV  | 175914 | 328075  | 24.08% | 3.045%  |
| 48 | 10.250 | 1359 | 1369 | 1373 | rBV3 | 22124  | 42963   | 3.15%  | 0.399%  |
| 49 | 10.323 | 1373 | 1381 | 1390 | rVV  | 653610 | 1132572 | 83.14% | 10.511% |
| 50 | 10.463 | 1402 | 1404 | 1406 | rBV2 | 1242   | 1140    | 0.08%  | 0.011%  |
| 51 | 10.506 | 1409 | 1411 | 1415 | rVV3 | 3847   | 4577    | 0.34%  | 0.042%  |
| 52 | 10.579 | 1416 | 1423 | 1434 | rVV  | 121725 | 219135  | 16.09% | 2.034%  |
| 53 | 10.701 | 1438 | 1443 | 1448 | rVV3 | 11681  | 23166   | 1.70%  | 0.215%  |
| 54 | 10.774 | 1451 | 1455 | 1460 | rVB3 | 6000   | 11038   | 0.81%  | 0.102%  |
| 55 | 10.926 | 1473 | 1480 | 1490 | rBV  | 272728 | 462815  | 33.97% | 4.295%  |
| 56 | 11.286 | 1538 | 1539 | 1541 | rBV2 | 1594   | 972     | 0.07%  | 0.009%  |
| 57 | 11.500 | 1570 | 1574 | 1575 | rBV4 | 1544   | 2114    | 0.16%  | 0.020%  |
| 58 | 11.628 | 1586 | 1595 | 1604 | rBV  | 622186 | 1106507 | 81.23% | 10.270% |
| 59 | 11.817 | 1624 | 1626 | 1628 | rBV2 | 1114   | 1230    | 0.09%  | 0.011%  |
| 60 | 12.067 | 1665 | 1667 | 1675 | rBV7 | 1671   | 3279    | 0.24%  | 0.030%  |
| 61 | 12.152 | 1677 | 1681 | 1682 | rBV  | 1082   | 1479    | 0.11%  | 0.014%  |
| 62 | 12.176 | 1683 | 1685 | 1686 | rVV2 | 3091   | 2247    | 0.16%  | 0.021%  |
| 63 | 12.280 | 1700 | 1702 | 1705 | rBV3 | 924    | 1033    | 0.08%  | 0.010%  |
| 64 | 12.323 | 1707 | 1709 | 1710 | rVB  | 1919   | 962     | 0.07%  | 0.009%  |
| 65 | 12.347 | 1710 | 1713 | 1714 | rBV2 | 2102   | 2542    | 0.19%  | 0.024%  |
| 66 | 12.609 | 1751 | 1756 | 1761 | rVV  | 21758  | 38410   | 2.82%  | 0.356%  |
| 67 | 12.694 | 1763 | 1770 | 1777 | rVV  | 323258 | 521751  | 38.30% | 4.842%  |
| 68 | 12.829 | 1790 | 1792 | 1794 | rVB  | 1865   | 1301    | 0.10%  | 0.012%  |
| 69 | 12.847 | 1794 | 1795 | 1797 | rBV  | 1760   | 1034    | 0.08%  | 0.010%  |
| 70 | 12.883 | 1797 | 1801 | 1802 | rVB2 | 1388   | 1334    | 0.10%  | 0.012%  |
| 71 | 12.920 | 1805 | 1807 | 1808 | rVV  | 1908   | 1162    | 0.09%  | 0.011%  |

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 Start Thrs: 0.2  
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Filtering: 5  
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 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\SOM2WLM031419S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.072 | 1830 | 1832 | 1833 | rBV  | 1878   | 1037   | 0.08%  | 0.010% |
| 73  | 13.127 | 1839 | 1841 | 1844 | rBV  | 1999   | 1903   | 0.14%  | 0.018% |
| 74  | 13.164 | 1844 | 1847 | 1848 | rBV  | 2846   | 2362   | 0.17%  | 0.022% |
| 75  | 13.377 | 1880 | 1882 | 1883 | rBV2 | 1727   | 1668   | 0.12%  | 0.015% |
| 76  | 13.414 | 1884 | 1888 | 1893 | rVB4 | 8981   | 13729  | 1.01%  | 0.127% |
| 77  | 13.505 | 1900 | 1903 | 1904 | rBV2 | 5737   | 6469   | 0.47%  | 0.060% |
| 78  | 13.560 | 1906 | 1912 | 1919 | rVV  | 629502 | 994082 | 72.97% | 9.226% |
| 79  | 13.719 | 1935 | 1938 | 1942 | rBV2 | 1671   | 2819   | 0.21%  | 0.026% |
| 80  | 13.761 | 1942 | 1945 | 1946 | rBV3 | 3977   | 4825   | 0.35%  | 0.045% |
| 81  | 13.853 | 1953 | 1960 | 1967 | rBV  | 587915 | 963331 | 70.72% | 8.941% |
| 82  | 14.072 | 1993 | 1996 | 2003 | rVB  | 16325  | 24963  | 1.83%  | 0.232% |
| 83  | 14.237 | 2021 | 2023 | 2024 | rVB2 | 1922   | 966    | 0.07%  | 0.009% |
| 84  | 14.261 | 2024 | 2027 | 2030 | rBV2 | 1811   | 2562   | 0.19%  | 0.024% |
| 85  | 14.414 | 2050 | 2052 | 2053 | rBV  | 1808   | 1463   | 0.11%  | 0.014% |
| 86  | 14.530 | 2069 | 2071 | 2074 | rBV4 | 2600   | 2806   | 0.21%  | 0.026% |
| 87  | 14.584 | 2077 | 2080 | 2081 | rBV2 | 1533   | 1091   | 0.08%  | 0.010% |
| 88  | 14.639 | 2083 | 2089 | 2093 | rVB4 | 4504   | 10055  | 0.74%  | 0.093% |
| 89  | 14.718 | 2100 | 2102 | 2104 | rVB4 | 2616   | 1695   | 0.12%  | 0.016% |
| 90  | 14.737 | 2104 | 2105 | 2108 | rBV  | 2236   | 2047   | 0.15%  | 0.019% |
| 91  | 14.907 | 2131 | 2133 | 2137 | rBV2 | 1905   | 1478   | 0.11%  | 0.014% |
| 92  | 14.944 | 2137 | 2139 | 2140 | rBV  | 1433   | 1370   | 0.10%  | 0.013% |
| 93  | 15.206 | 2181 | 2182 | 2183 | rBV  | 2248   | 1148   | 0.08%  | 0.011% |
| 94  | 15.779 | 2273 | 2276 | 2277 | rBV  | 3361   | 3882   | 0.28%  | 0.036% |
| 95  | 15.810 | 2277 | 2281 | 2284 | rVV4 | 5374   | 9186   | 0.67%  | 0.085% |
| 96  | 16.115 | 2329 | 2331 | 2332 | rBV  | 1894   | 1706   | 0.13%  | 0.016% |
| 97  | 16.377 | 2372 | 2374 | 2375 | rVB  | 2141   | 1050   | 0.08%  | 0.010% |
| 98  | 16.401 | 2376 | 2378 | 2379 | rVV  | 3182   | 2109   | 0.15%  | 0.020% |
| 99  | 16.554 | 2401 | 2403 | 2406 | rBV2 | 2176   | 1923   | 0.14%  | 0.018% |
| 100 | 16.736 | 2432 | 2433 | 2435 | rBV  | 2655   | 2229   | 0.16%  | 0.021% |

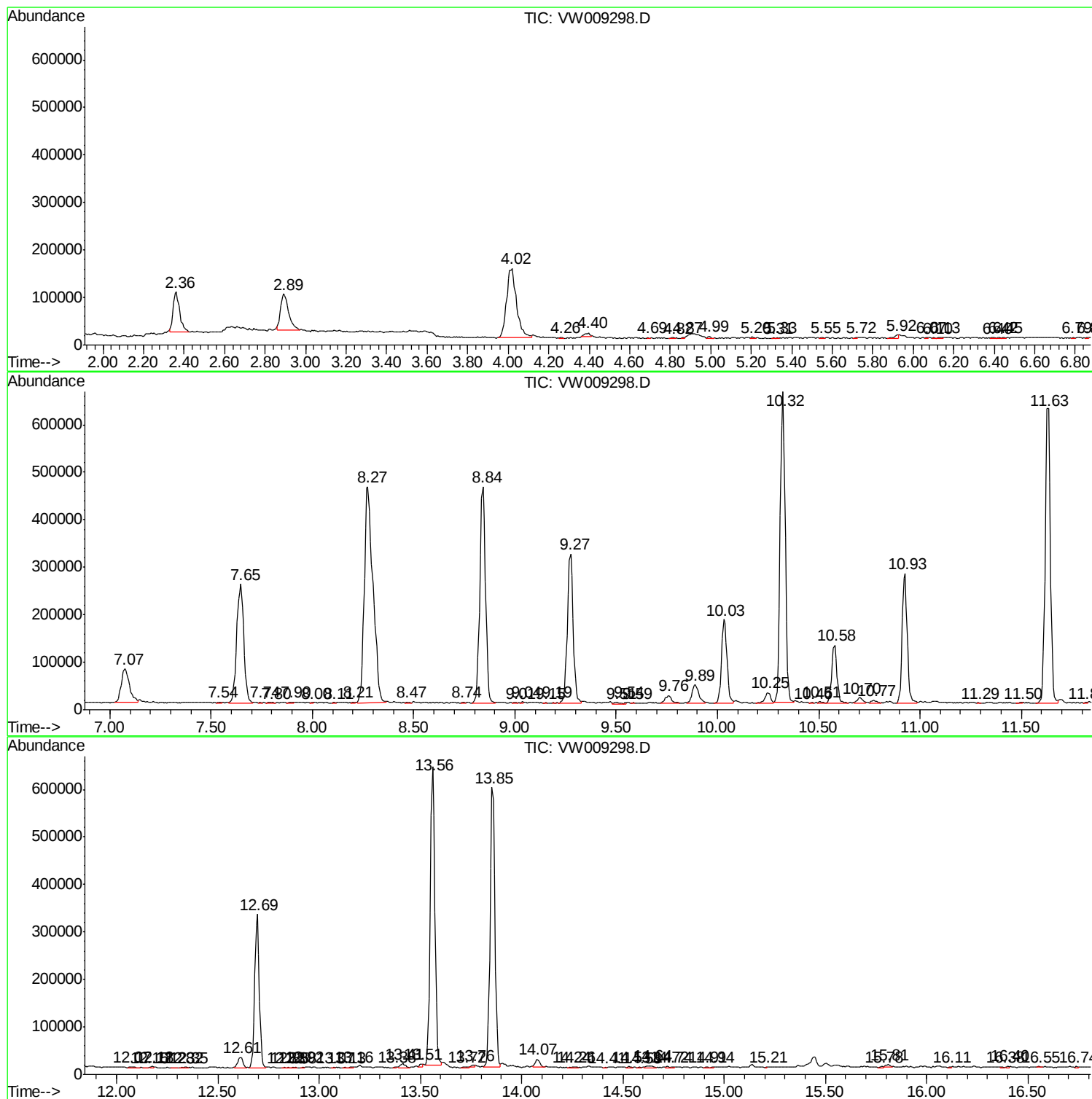
Sum of corrected areas: 10774656

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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



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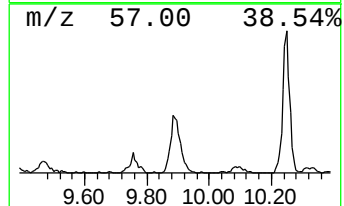
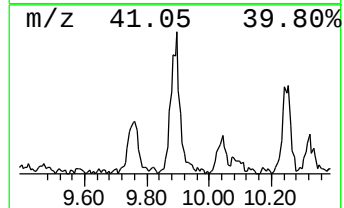
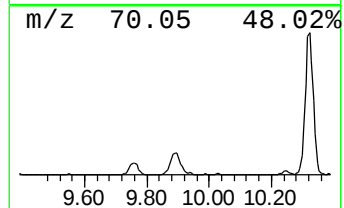
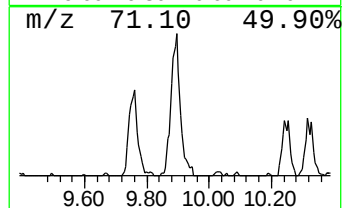
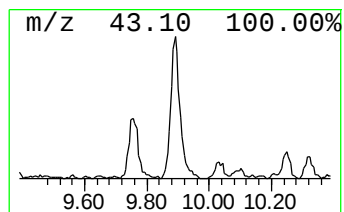
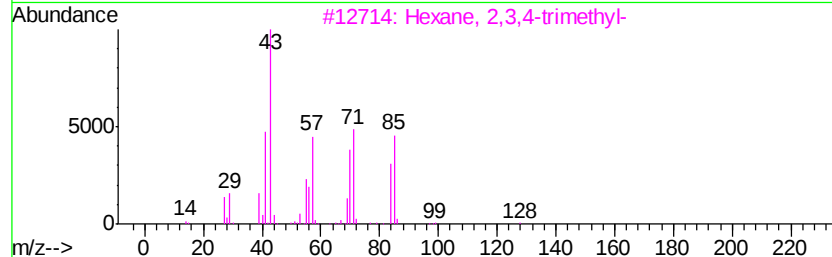
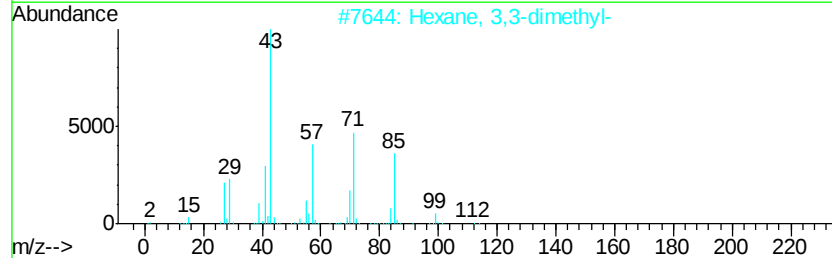
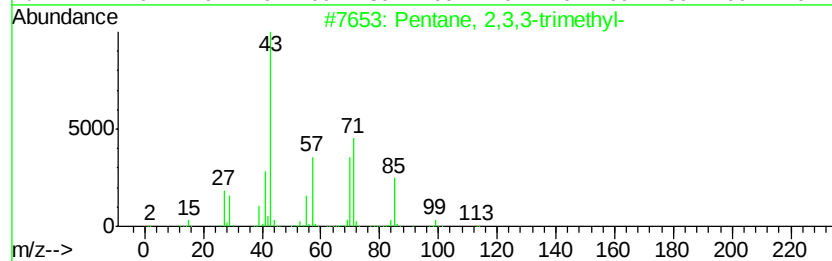
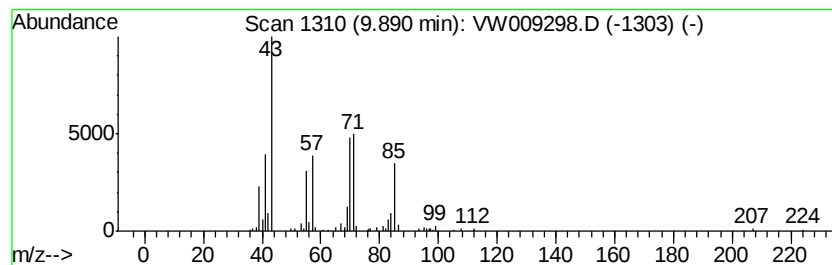
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 9.89 | 2.50 ug/L | 88360 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 72   |
| 2    |    | Hexane, 3,3-dimethyl-     | 114 | C8H18   | 000563-16-6 | 53   |
| 3    |    | Hexane, 2,3,4-trimethyl-  | 128 | C9H20   | 000921-47-1 | 50   |
| 4    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 50   |
| 5    |    | 1-Butanol, 2-ethyl-       | 102 | C6H14O  | 000097-95-0 | 50   |



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| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| (DEL) Alkane: Str... | 9.89 | 2.5     | ug/L  | 88360    | 1                     | 8.84 | 884751 | 25.0 |