

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042919\  
 Data File : VU031594.D  
 Acq On : 29 Apr 2019 18:14  
 Operator : JC/SP  
 Sample : K2586-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X66

## 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\_U\METHOD\SOMULM042719WMA.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      | 1.177    | 22         | 27       | 37        | rBV2  | 60045       | 57068      | 0.64%        | 0.172%     |
| 2      | 1.293    | 59         | 63       | 68        | rBV   | 18679       | 16390      | 0.18%        | 0.049%     |
| 3      | 1.396    | 88         | 95       | 105       | rBV   | 419922      | 447406     | 5.03%        | 1.349%     |
| 4      | 1.679    | 175        | 183      | 198       | rVB   | 348843      | 437503     | 4.92%        | 1.319%     |
| 5      | 1.881    | 241        | 246      | 260       | rVB2  | 30496       | 44377      | 0.50%        | 0.134%     |
| 6      | 2.270    | 356        | 367      | 378       | rBV   | 728791      | 1101198    | 12.39%       | 3.320%     |
| 7      | 2.334    | 379        | 387      | 403       | rVB   | 67309       | 140559     | 1.58%        | 0.424%     |
| 8      | 2.531    | 428        | 448      | 450       | rBV   | 15964       | 43925      | 0.49%        | 0.132%     |
| 9      | 2.830    | 533        | 541      | 560       | rVB   | 10123       | 20602      | 0.23%        | 0.062%     |
| 10     | 2.958    | 578        | 581      | 583       | rBV3  | 1560        | 1100       | 0.01%        | 0.003%     |
| 11     | 2.981    | 585        | 588      | 590       | rVV3  | 1689        | 1288       | 0.01%        | 0.004%     |
| 12     | 3.141    | 634        | 638      | 642       | rVB3  | 1303        | 1264       | 0.01%        | 0.004%     |
| 13     | 3.225    | 660        | 664      | 670       | rVB4  | 1251        | 1109       | 0.01%        | 0.003%     |
| 14     | 3.270    | 674        | 678      | 682       | rBV4  | 1130        | 1131       | 0.01%        | 0.003%     |
| 15     | 3.322    | 690        | 694      | 699       | rBV4  | 1404        | 1265       | 0.01%        | 0.004%     |
| 16     | 3.383    | 708        | 713      | 716       | rBV5  | 1169        | 1163       | 0.01%        | 0.004%     |
| 17     | 3.579    | 770        | 774      | 780       | rVB3  | 1031        | 1009       | 0.01%        | 0.003%     |
| 18     | 3.614    | 780        | 785      | 788       | rBV3  | 1178        | 1040       | 0.01%        | 0.003%     |
| 19     | 3.637    | 788        | 792      | 799       | rBV4  | 1050        | 957        | 0.01%        | 0.003%     |
| 20     | 3.698    | 808        | 811      | 815       | rVB2  | 1626        | 930        | 0.01%        | 0.003%     |
| 21     | 3.823    | 842        | 850      | 852       | rBV3  | 1330        | 1600       | 0.02%        | 0.005%     |
| 22     | 3.855    | 857        | 860      | 865       | rVB4  | 991         | 906        | 0.01%        | 0.003%     |
| 23     | 3.997    | 899        | 904      | 909       | rVB6  | 1638        | 1812       | 0.02%        | 0.005%     |
| 24     | 4.029    | 909        | 914      | 917       | rBV3  | 1109        | 1077       | 0.01%        | 0.003%     |
| 25     | 4.100    | 933        | 936      | 943       | rVB3  | 1191        | 1030       | 0.01%        | 0.003%     |
| 26     | 4.186    | 948        | 963      | 998       | rBV2  | 305750      | 992756     | 11.17%       | 2.993%     |
| 27     | 4.389    | 1019       | 1026     | 1044      | rVB2  | 25401       | 60269      | 0.68%        | 0.182%     |
| 28     | 4.643    | 1089       | 1105     | 1129      | rBV   | 538468      | 1281864    | 14.42%       | 3.865%     |
| 29     | 5.048    | 1228       | 1231     | 1235      | rBV2  | 1219        | 1132       | 0.01%        | 0.003%     |
| 30     | 5.067    | 1235       | 1237     | 1242      | rVB2  | 1397        | 898        | 0.01%        | 0.003%     |
| 31     | 5.093    | 1242       | 1245     | 1249      | rBV4  | 1017        | 895        | 0.01%        | 0.003%     |
| 32     | 5.129    | 1249       | 1256     | 1258      | rBV6  | 1498        | 1616       | 0.02%        | 0.005%     |
| 33     | 5.222    | 1279       | 1285     | 1286      | rBV3  | 845         | 830        | 0.01%        | 0.003%     |
| 34     | 5.334    | 1294       | 1320     | 1343      | rBV2  | 1086813     | 3270112    | 36.79%       | 9.860%     |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |         |         |         |         |
|----|-------|------|------|------|------|---------|---------|---------|---------|
| 35 | 5.649 | 1415 | 1418 | 1420 | rBV2 | 1667    | 1251    | 0.01%   | 0.004%  |
| 36 | 5.704 | 1433 | 1435 | 1442 | rVB5 | 1159    | 1053    | 0.01%   | 0.003%  |
| 37 | 5.881 | 1477 | 1490 | 1517 | rBV  | 828468  | 1724719 | 19.41%  | 5.200%  |
| 38 | 6.180 | 1568 | 1583 | 1615 | rBV  | 4492039 | 8888002 | 100.00% | 26.799% |
| 39 | 6.325 | 1617 | 1628 | 1660 | rVB  | 761832  | 1587596 | 17.86%  | 4.787%  |
| 40 | 6.775 | 1764 | 1768 | 1770 | rBV5 | 1634    | 1222    | 0.01%   | 0.004%  |
| 41 | 6.929 | 1812 | 1816 | 1819 | rBV6 | 1902    | 1734    | 0.02%   | 0.005%  |
| 42 | 6.981 | 1829 | 1832 | 1839 | rVB4 | 1494    | 1192    | 0.01%   | 0.004%  |
| 43 | 7.013 | 1839 | 1842 | 1846 | rVB4 | 1288    | 1067    | 0.01%   | 0.003%  |
| 44 | 7.042 | 1846 | 1851 | 1853 | rBV2 | 1469    | 1390    | 0.02%   | 0.004%  |
| 45 | 7.080 | 1859 | 1863 | 1869 | rVB4 | 1360    | 1539    | 0.02%   | 0.005%  |
| 46 | 7.138 | 1875 | 1881 | 1885 | rVB5 | 1381    | 1458    | 0.02%   | 0.004%  |
| 47 | 7.164 | 1885 | 1889 | 1895 | rBV4 | 1462    | 1932    | 0.02%   | 0.006%  |
| 48 | 7.225 | 1896 | 1908 | 1928 | rBV  | 365481  | 693476  | 7.80%   | 2.091%  |
| 49 | 7.437 | 1971 | 1974 | 1978 | rBV5 | 1984    | 1552    | 0.02%   | 0.005%  |
| 50 | 7.476 | 1984 | 1986 | 1991 | rVB4 | 1268    | 937     | 0.01%   | 0.003%  |
| 51 | 7.563 | 1999 | 2013 | 2058 | rBV  | 1271473 | 2367398 | 26.64%  | 7.138%  |
| 52 | 7.849 | 2091 | 2102 | 2125 | rBV  | 244408  | 461478  | 5.19%   | 1.391%  |
| 53 | 8.090 | 2171 | 2177 | 2180 | rVB6 | 1670    | 1841    | 0.02%   | 0.006%  |
| 54 | 8.132 | 2185 | 2190 | 2191 | rBV4 | 1289    | 1024    | 0.01%   | 0.003%  |
| 55 | 8.173 | 2192 | 2203 | 2210 | rBV2 | 15692   | 26101   | 0.29%   | 0.079%  |
| 56 | 8.225 | 2210 | 2219 | 2234 | rVB4 | 55092   | 95224   | 1.07%   | 0.287%  |
| 57 | 8.308 | 2235 | 2245 | 2291 | rBV  | 1013904 | 2049916 | 23.06%  | 6.181%  |
| 58 | 8.807 | 2396 | 2400 | 2406 | rBV8 | 1795    | 2485    | 0.03%   | 0.007%  |
| 59 | 8.903 | 2426 | 2430 | 2431 | rBV4 | 1351    | 980     | 0.01%   | 0.003%  |
| 60 | 8.942 | 2439 | 2442 | 2445 | rBV3 | 1407    | 1263    | 0.01%   | 0.004%  |
| 61 | 8.974 | 2449 | 2452 | 2456 | rVV4 | 1138    | 1027    | 0.01%   | 0.003%  |
| 62 | 9.087 | 2474 | 2487 | 2528 | rBV  | 1221518 | 2165362 | 24.36%  | 6.529%  |
| 63 | 9.456 | 2597 | 2602 | 2604 | rBV3 | 1991    | 1711    | 0.02%   | 0.005%  |
| 64 | 9.498 | 2613 | 2615 | 2618 | rVB3 | 1567    | 860     | 0.01%   | 0.003%  |
| 65 | 9.521 | 2618 | 2622 | 2625 | rVB4 | 1105    | 928     | 0.01%   | 0.003%  |
| 66 | 9.553 | 2626 | 2632 | 2635 | rBV6 | 1352    | 1307    | 0.01%   | 0.004%  |
| 67 | 9.598 | 2640 | 2646 | 2649 | rBV4 | 1565    | 1794    | 0.02%   | 0.005%  |
| 68 | 9.662 | 2664 | 2666 | 2675 | rVB6 | 1661    | 2052    | 0.02%   | 0.006%  |
| 69 | 9.739 | 2687 | 2690 | 2699 | rVB3 | 1669    | 1842    | 0.02%   | 0.006%  |
| 70 | 9.784 | 2699 | 2704 | 2707 | rVB5 | 1327    | 1172    | 0.01%   | 0.004%  |
| 71 | 9.807 | 2707 | 2711 | 2715 | rBV5 | 1438    | 1020    | 0.01%   | 0.003%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 10.029 | 2776 | 2780 | 2784 | rBV6 | 883     | 832     | 0.01%  | 0.003% |
| 73  | 10.138 | 2809 | 2814 | 2819 | rBV3 | 1314    | 1195    | 0.01%  | 0.004% |
| 74  | 10.183 | 2824 | 2828 | 2830 | rBV3 | 1628    | 1336    | 0.02%  | 0.004% |
| 75  | 10.218 | 2835 | 2839 | 2844 | rVB6 | 3336    | 3865    | 0.04%  | 0.012% |
| 76  | 10.427 | 2891 | 2904 | 2928 | rBV  | 939514  | 1518364 | 17.08% | 4.578% |
| 77  | 10.604 | 2949 | 2959 | 2972 | rVB3 | 14702   | 23653   | 0.27%  | 0.071% |
| 78  | 10.697 | 2985 | 2988 | 2994 | rVV4 | 1363    | 1449    | 0.02%  | 0.004% |
| 79  | 11.048 | 3092 | 3097 | 3099 | rBV3 | 939     | 871     | 0.01%  | 0.003% |
| 80  | 11.070 | 3099 | 3104 | 3108 | rBV6 | 1971    | 1872    | 0.02%  | 0.006% |
| 81  | 11.148 | 3125 | 3128 | 3135 | rVB4 | 1160    | 1272    | 0.01%  | 0.004% |
| 82  | 11.299 | 3171 | 3175 | 3178 | rBV2 | 1203    | 974     | 0.01%  | 0.003% |
| 83  | 11.321 | 3178 | 3182 | 3184 | rBV3 | 1500    | 1128    | 0.01%  | 0.003% |
| 84  | 11.379 | 3194 | 3200 | 3202 | rBV4 | 1150    | 1154    | 0.01%  | 0.003% |
| 85  | 11.392 | 3202 | 3204 | 3208 | rVB3 | 1514    | 938     | 0.01%  | 0.003% |
| 86  | 11.418 | 3208 | 3212 | 3218 | rBV6 | 2440    | 2729    | 0.03%  | 0.008% |
| 87  | 11.479 | 3219 | 3231 | 3250 | rBV  | 972662  | 1606032 | 18.07% | 4.843% |
| 88  | 11.749 | 3305 | 3315 | 3328 | rBV3 | 53149   | 113147  | 1.27%  | 0.341% |
| 89  | 11.855 | 3337 | 3348 | 3375 | rVB  | 1109977 | 1818353 | 20.46% | 5.483% |
| 90  | 12.241 | 3464 | 3468 | 3470 | rBV3 | 1667    | 1243    | 0.01%  | 0.004% |
| 91  | 12.418 | 3520 | 3523 | 3529 | rVB4 | 2455    | 2094    | 0.02%  | 0.006% |
| 92  | 12.472 | 3532 | 3540 | 3551 | rVV4 | 5813    | 11477   | 0.13%  | 0.035% |
| 93  | 12.678 | 3601 | 3604 | 3609 | rBV5 | 2213    | 2260    | 0.03%  | 0.007% |
| 94  | 12.791 | 3635 | 3639 | 3642 | rBV4 | 1595    | 1497    | 0.02%  | 0.005% |
| 95  | 12.881 | 3662 | 3667 | 3673 | rBV5 | 3287    | 3561    | 0.04%  | 0.011% |
| 96  | 12.910 | 3673 | 3676 | 3682 | rVB6 | 2105    | 1705    | 0.02%  | 0.005% |
| 97  | 13.025 | 3710 | 3712 | 3717 | rVB4 | 2526    | 1785    | 0.02%  | 0.005% |
| 98  | 13.800 | 3949 | 3953 | 3956 | rBV3 | 1707    | 1668    | 0.02%  | 0.005% |
| 99  | 13.938 | 3993 | 3996 | 4001 | rBV5 | 1797    | 1800    | 0.02%  | 0.005% |
| 100 | 14.041 | 4024 | 4028 | 4033 | rBV4 | 1696    | 2031    | 0.02%  | 0.006% |

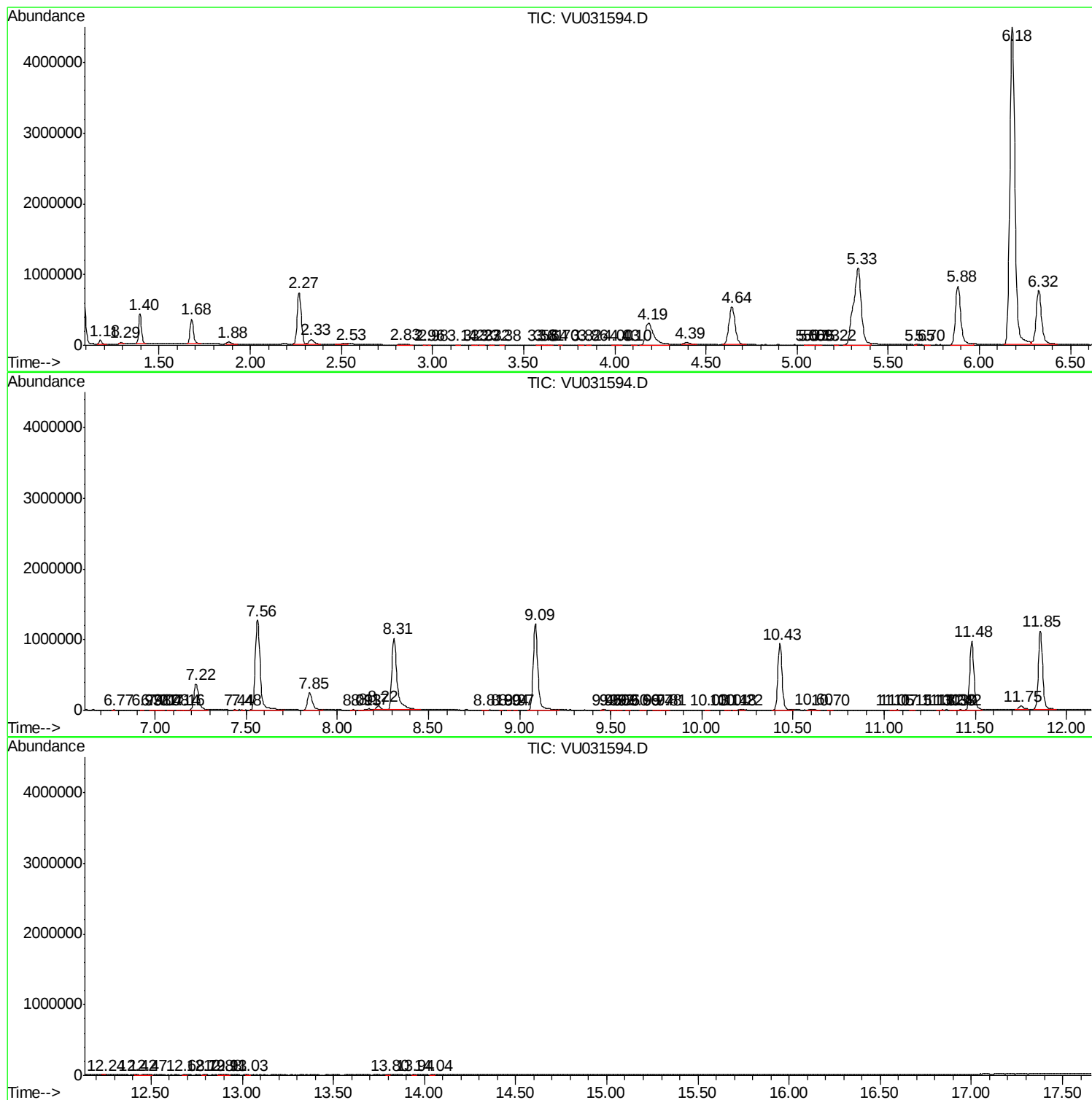
Sum of corrected areas: 33165271

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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



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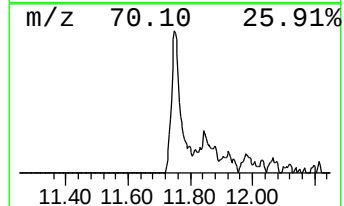
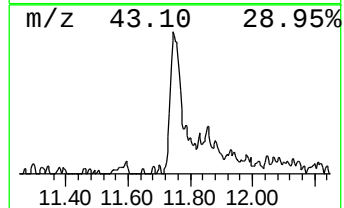
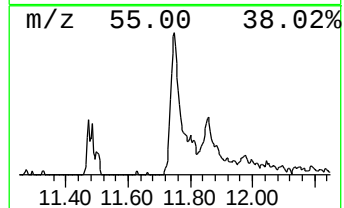
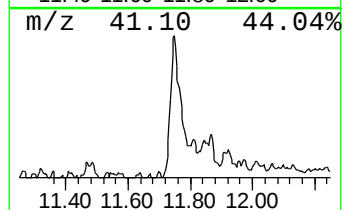
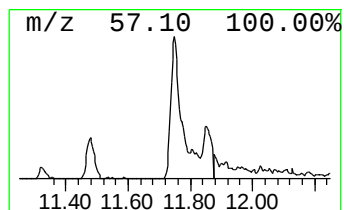
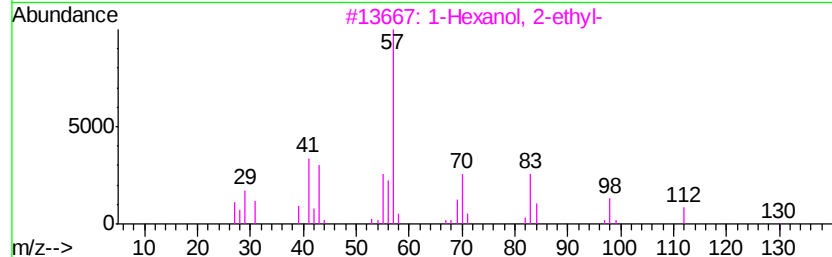
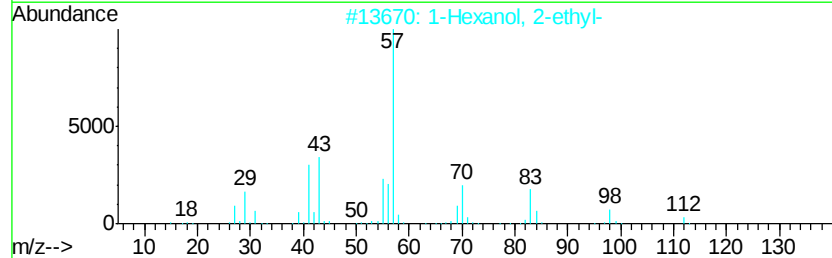
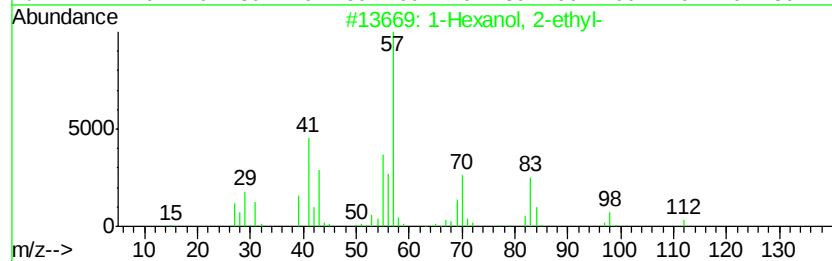
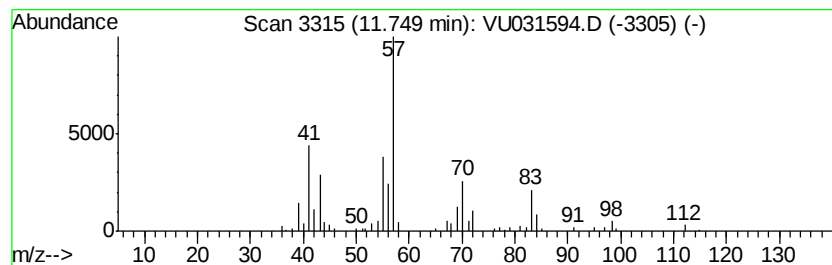
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 2 1-Hexanol, 2-ethyl- Concentration Rank 2

| R.T.      | EstConc                       | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------|--------|------------------------|-------------|------|
| 11.75     | 3.52 ug/L                     | 113147 | 1,4-Dichlorobenzene-d4 | 11.48       |      |
| Hit# of 5 | Tentative ID                  | MW     | MolForm                | CAS#        | Qual |
| 1         | 1-Hexanol, 2-ethyl-           | 130    | C8H18O                 | 000104-76-7 | 78   |
| 2         | 1-Hexanol, 2-ethyl-           | 130    | C8H18O                 | 000104-76-7 | 64   |
| 3         | 1-Hexanol, 2-ethyl-           | 130    | C8H18O                 | 000104-76-7 | 53   |
| 4         | 1-Pentanol, 2-ethyl-4-methyl- | 130    | C8H18O                 | 000106-67-2 | 53   |
| 5         | 1-Hexanol, 2-ethyl-           | 130    | C8H18O                 | 000104-76-7 | 53   |



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| TIC Top Hit name    | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|---------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                     |       |         |       |          | #                     | RT    | Resp    | Conc |
| 1-Hexanol, 2-ethyl- | 11.75 | 3.5     | ug/L  | 113147   | 3                     | 11.48 | 1606030 | 50.0 |