

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
 Data File : VV011071.D  
 Acq On : 28 May 2019 18:55  
 Operator : SY/MD  
 Sample : K3017-04  
 Misc : 0.15G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A51H7

## 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\_V\METHOD\SOM2VLM052819S.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      | 1.213    | 32         | 38       | 47        | rVB2  | 180990      | 181501     | 9.86%        | 1.304%     |
| 2      | 1.316    | 64         | 70       | 79        | rVB   | 268849      | 242641     | 13.19%       | 1.744%     |
| 3      | 1.560    | 141        | 146      | 155       | rVB   | 177415      | 202804     | 11.02%       | 1.458%     |
| 4      | 2.123    | 312        | 321      | 333       | rVB   | 398351      | 560523     | 30.46%       | 4.029%     |
| 5      | 2.711    | 502        | 504      | 509       | rBV6  | 1951        | 890        | 0.05%        | 0.006%     |
| 6      | 2.910    | 564        | 566      | 570       | rVB5  | 1756        | 876        | 0.05%        | 0.006%     |
| 7      | 2.952    | 577        | 579      | 583       | rVB4  | 1970        | 1010       | 0.05%        | 0.007%     |
| 8      | 3.290    | 681        | 684      | 688       | rBV5  | 1470        | 844        | 0.05%        | 0.006%     |
| 9      | 3.483    | 742        | 744      | 750       | rVB6  | 1716        | 1524       | 0.08%        | 0.011%     |
| 10     | 3.512    | 751        | 753      | 758       | rVB6  | 1295        | 879        | 0.05%        | 0.006%     |
| 11     | 3.611    | 780        | 784      | 786       | rBV5  | 1355        | 905        | 0.05%        | 0.007%     |
| 12     | 3.762    | 829        | 831      | 840       | rVB8  | 1426        | 1567       | 0.09%        | 0.011%     |
| 13     | 3.807    | 840        | 845      | 850       | rVB9  | 1723        | 1881       | 0.10%        | 0.014%     |
| 14     | 3.836    | 850        | 854      | 856       | rBV4  | 1196        | 841        | 0.05%        | 0.006%     |
| 15     | 3.936    | 874        | 885      | 908       | rBV2  | 95501       | 246879     | 13.42%       | 1.774%     |
| 16     | 4.119    | 938        | 942      | 944       | rBV5  | 1238        | 1003       | 0.05%        | 0.007%     |
| 17     | 4.299    | 992        | 998      | 1000      | rBV6  | 1541        | 1344       | 0.07%        | 0.010%     |
| 18     | 4.399    | 1008       | 1029     | 1055      | rBV3  | 264873      | 714113     | 38.81%       | 5.132%     |
| 19     | 4.534    | 1060       | 1071     | 1079      | rBV3  | 4542        | 10535      | 0.57%        | 0.076%     |
| 20     | 4.631    | 1099       | 1101     | 1103      | rBV3  | 1641        | 882        | 0.05%        | 0.006%     |
| 21     | 4.753    | 1136       | 1139     | 1141      | rBV4  | 1258        | 875        | 0.05%        | 0.006%     |
| 22     | 5.016    | 1219       | 1221     | 1225      | rVB5  | 1771        | 1058       | 0.06%        | 0.008%     |
| 23     | 5.090    | 1225       | 1244     | 1268      | rBV2  | 753106      | 1840155    | 100.00%      | 13.225%    |
| 24     | 5.589    | 1397       | 1399     | 1404      | rVB5  | 1373        | 1014       | 0.06%        | 0.007%     |
| 25     | 5.659    | 1406       | 1421     | 1441      | rBV   | 525544      | 1062578    | 57.74%       | 7.637%     |
| 26     | 5.936    | 1504       | 1507     | 1508      | rBV3  | 1792        | 1108       | 0.06%        | 0.008%     |
| 27     | 6.116    | 1548       | 1563     | 1584      | rVV   | 420904      | 861684     | 46.83%       | 6.193%     |
| 28     | 6.389    | 1645       | 1648     | 1650      | rVB4  | 1493        | 932        | 0.05%        | 0.007%     |
| 29     | 6.460    | 1667       | 1670     | 1674      | rBV4  | 1363        | 1202       | 0.07%        | 0.009%     |
| 30     | 6.553    | 1695       | 1699     | 1700      | rBV4  | 1176        | 957        | 0.05%        | 0.007%     |
| 31     | 6.646    | 1723       | 1728     | 1729      | rBV5  | 1484        | 1117       | 0.06%        | 0.008%     |
| 32     | 6.659    | 1730       | 1732     | 1738      | rVV8  | 2082        | 1853       | 0.10%        | 0.013%     |
| 33     | 6.708    | 1738       | 1747     | 1754      | rVV4  | 3923        | 7059       | 0.38%        | 0.051%     |
| 34     | 6.801    | 1771       | 1776     | 1779      | rBV7  | 1072        | 1064       | 0.06%        | 0.008%     |

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
 Title : VOC Analysis

|    |        |      |      |      |       |        |         |        |         |
|----|--------|------|------|------|-------|--------|---------|--------|---------|
| 35 | 6.872  | 1794 | 1798 | 1800 | rBV4  | 1283   | 925     | 0.05%  | 0.007%  |
| 36 | 7.026  | 1830 | 1846 | 1874 | rBV   | 267732 | 485964  | 26.41% | 3.493%  |
| 37 | 7.129  | 1874 | 1878 | 1880 | rVV5  | 1310   | 1079    | 0.06%  | 0.008%  |
| 38 | 7.183  | 1887 | 1895 | 1908 | rVB10 | 7101   | 14545   | 0.79%  | 0.105%  |
| 39 | 7.357  | 1936 | 1949 | 1970 | rBV   | 870035 | 1527611 | 83.02% | 10.979% |
| 40 | 7.663  | 2032 | 2044 | 2058 | rVV   | 179989 | 304876  | 16.57% | 2.191%  |
| 41 | 7.978  | 2133 | 2142 | 2152 | rBV2  | 17555  | 32122   | 1.75%  | 0.231%  |
| 42 | 8.032  | 2158 | 2159 | 2162 | rVB3  | 1907   | 796     | 0.04%  | 0.006%  |
| 43 | 8.055  | 2162 | 2166 | 2169 | rBV5  | 1776   | 1634    | 0.09%  | 0.012%  |
| 44 | 8.132  | 2177 | 2190 | 2216 | rBV   | 377604 | 657968  | 35.76% | 4.729%  |
| 45 | 8.405  | 2270 | 2275 | 2278 | rBV7  | 1690   | 1454    | 0.08%  | 0.010%  |
| 46 | 8.505  | 2303 | 2306 | 2309 | rVV5  | 1334   | 811     | 0.04%  | 0.006%  |
| 47 | 8.637  | 2344 | 2347 | 2350 | rBV6  | 1470   | 1087    | 0.06%  | 0.008%  |
| 48 | 8.785  | 2390 | 2393 | 2398 | rVB6  | 1089   | 1011    | 0.05%  | 0.007%  |
| 49 | 8.894  | 2409 | 2427 | 2461 | rBV   | 808536 | 1369785 | 74.44% | 9.845%  |
| 50 | 9.100  | 2488 | 2491 | 2494 | rBV4  | 1215   | 1015    | 0.06%  | 0.007%  |
| 51 | 9.187  | 2509 | 2518 | 2524 | rVB9  | 4793   | 7425    | 0.40%  | 0.053%  |
| 52 | 9.238  | 2531 | 2534 | 2539 | rVB6  | 1952   | 1382    | 0.08%  | 0.010%  |
| 53 | 9.267  | 2539 | 2543 | 2545 | rBV5  | 1374   | 1105    | 0.06%  | 0.008%  |
| 54 | 9.585  | 2636 | 2642 | 2643 | rBV5  | 4196   | 3138    | 0.17%  | 0.023%  |
| 55 | 9.656  | 2659 | 2664 | 2668 | rBV8  | 1739   | 2256    | 0.12%  | 0.016%  |
| 56 | 9.797  | 2705 | 2708 | 2712 | rBV6  | 1139   | 1166    | 0.06%  | 0.008%  |
| 57 | 9.933  | 2746 | 2750 | 2753 | rBV6  | 994    | 990     | 0.05%  | 0.007%  |
| 58 | 10.026 | 2776 | 2779 | 2782 | rBV4  | 1496   | 1112    | 0.06%  | 0.008%  |
| 59 | 10.119 | 2804 | 2808 | 2811 | rBV4  | 1082   | 857     | 0.05%  | 0.006%  |
| 60 | 10.261 | 2840 | 2852 | 2873 | rVV   | 449581 | 715435  | 38.88% | 5.142%  |
| 61 | 10.334 | 2873 | 2875 | 2879 | rVV5  | 1782   | 1182    | 0.06%  | 0.008%  |
| 62 | 10.421 | 2891 | 2902 | 2913 | rVV2  | 24508  | 46144   | 2.51%  | 0.332%  |
| 63 | 10.543 | 2938 | 2940 | 2943 | rVV4  | 1602   | 959     | 0.05%  | 0.007%  |
| 64 | 10.592 | 2947 | 2955 | 2958 | rVV7  | 4734   | 7605    | 0.41%  | 0.055%  |
| 65 | 10.617 | 2961 | 2963 | 2971 | rVV4  | 4749   | 5247    | 0.29%  | 0.038%  |
| 66 | 10.653 | 2971 | 2974 | 2977 | rVB4  | 1173   | 824     | 0.04%  | 0.006%  |
| 67 | 10.688 | 2983 | 2985 | 2991 | rVB6  | 947    | 850     | 0.05%  | 0.006%  |
| 68 | 10.746 | 3000 | 3003 | 3006 | rVB4  | 1523   | 1070    | 0.06%  | 0.008%  |
| 69 | 10.769 | 3006 | 3010 | 3013 | rBV6  | 2470   | 2065    | 0.11%  | 0.015%  |
| 70 | 10.894 | 3045 | 3049 | 3050 | rBV4  | 1595   | 1127    | 0.06%  | 0.008%  |
| 71 | 10.952 | 3065 | 3067 | 3069 | rBV3  | 1298   | 824     | 0.04%  | 0.006%  |

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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\_V\METHOD\SOM2VLM052819S.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |         |        |        |
|-----|--------|------|------|------|-------|--------|---------|--------|--------|
| 72  | 11.125 | 3117 | 3121 | 3125 | rBV7  | 1426   | 1434    | 0.08%  | 0.010% |
| 73  | 11.296 | 3161 | 3174 | 3191 | rBV   | 754645 | 1235030 | 67.12% | 8.876% |
| 74  | 11.379 | 3197 | 3200 | 3206 | rBV8  | 1421   | 1642    | 0.09%  | 0.012% |
| 75  | 11.576 | 3250 | 3261 | 3273 | rBV   | 67714  | 116451  | 6.33%  | 0.837% |
| 76  | 11.672 | 3278 | 3291 | 3307 | rVV   | 808685 | 1307551 | 71.06% | 9.397% |
| 77  | 11.949 | 3370 | 3377 | 3380 | rVB9  | 2099   | 2252    | 0.12%  | 0.016% |
| 78  | 12.241 | 3459 | 3468 | 3473 | rBV10 | 2128   | 2777    | 0.15%  | 0.020% |
| 79  | 12.264 | 3473 | 3475 | 3477 | rBV3  | 1941   | 1237    | 0.07%  | 0.009% |
| 80  | 12.293 | 3477 | 3484 | 3501 | rVB2  | 15884  | 29150   | 1.58%  | 0.210% |
| 81  | 12.392 | 3504 | 3515 | 3523 | rBV2  | 4653   | 10438   | 0.57%  | 0.075% |
| 82  | 12.640 | 3589 | 3592 | 3595 | rVB5  | 1705   | 1110    | 0.06%  | 0.008% |
| 83  | 12.695 | 3600 | 3609 | 3610 | rBV8  | 2381   | 2649    | 0.14%  | 0.019% |
| 84  | 12.717 | 3610 | 3616 | 3624 | rVB6  | 7406   | 10519   | 0.57%  | 0.076% |
| 85  | 12.833 | 3649 | 3652 | 3656 | rBV6  | 1229   | 1116    | 0.06%  | 0.008% |
| 86  | 12.871 | 3662 | 3664 | 3668 | rVB5  | 1257   | 810     | 0.04%  | 0.006% |
| 87  | 13.003 | 3697 | 3705 | 3713 | rBV8  | 3873   | 6958    | 0.38%  | 0.050% |
| 88  | 13.241 | 3775 | 3779 | 3780 | rBV3  | 1604   | 849     | 0.05%  | 0.006% |
| 89  | 13.312 | 3799 | 3801 | 3805 | rBV6  | 1455   | 1320    | 0.07%  | 0.009% |
| 90  | 13.370 | 3817 | 3819 | 3825 | rVB7  | 1443   | 1133    | 0.06%  | 0.008% |
| 91  | 13.405 | 3827 | 3830 | 3832 | rBV3  | 1159   | 897     | 0.05%  | 0.006% |
| 92  | 13.553 | 3874 | 3876 | 3884 | rVB8  | 3745   | 4033    | 0.22%  | 0.029% |
| 93  | 13.627 | 3895 | 3899 | 3900 | rBV4  | 3003   | 1809    | 0.10%  | 0.013% |
| 94  | 13.788 | 3946 | 3949 | 3952 | rBV4  | 1676   | 1418    | 0.08%  | 0.010% |
| 95  | 13.884 | 3974 | 3979 | 3982 | rBV6  | 1342   | 1331    | 0.07%  | 0.010% |
| 96  | 13.916 | 3985 | 3989 | 3993 | rVB6  | 1158   | 1212    | 0.07%  | 0.009% |
| 97  | 14.386 | 4131 | 4135 | 4136 | rBV4  | 1973   | 1140    | 0.06%  | 0.008% |
| 98  | 14.871 | 4281 | 4286 | 4292 | rBV10 | 2497   | 3676    | 0.20%  | 0.026% |
| 99  | 14.897 | 4292 | 4294 | 4298 | rVB5  | 1669   | 1138    | 0.06%  | 0.008% |
| 100 | 15.714 | 4545 | 4548 | 4551 | rBV5  | 1657   | 1258    | 0.07%  | 0.009% |

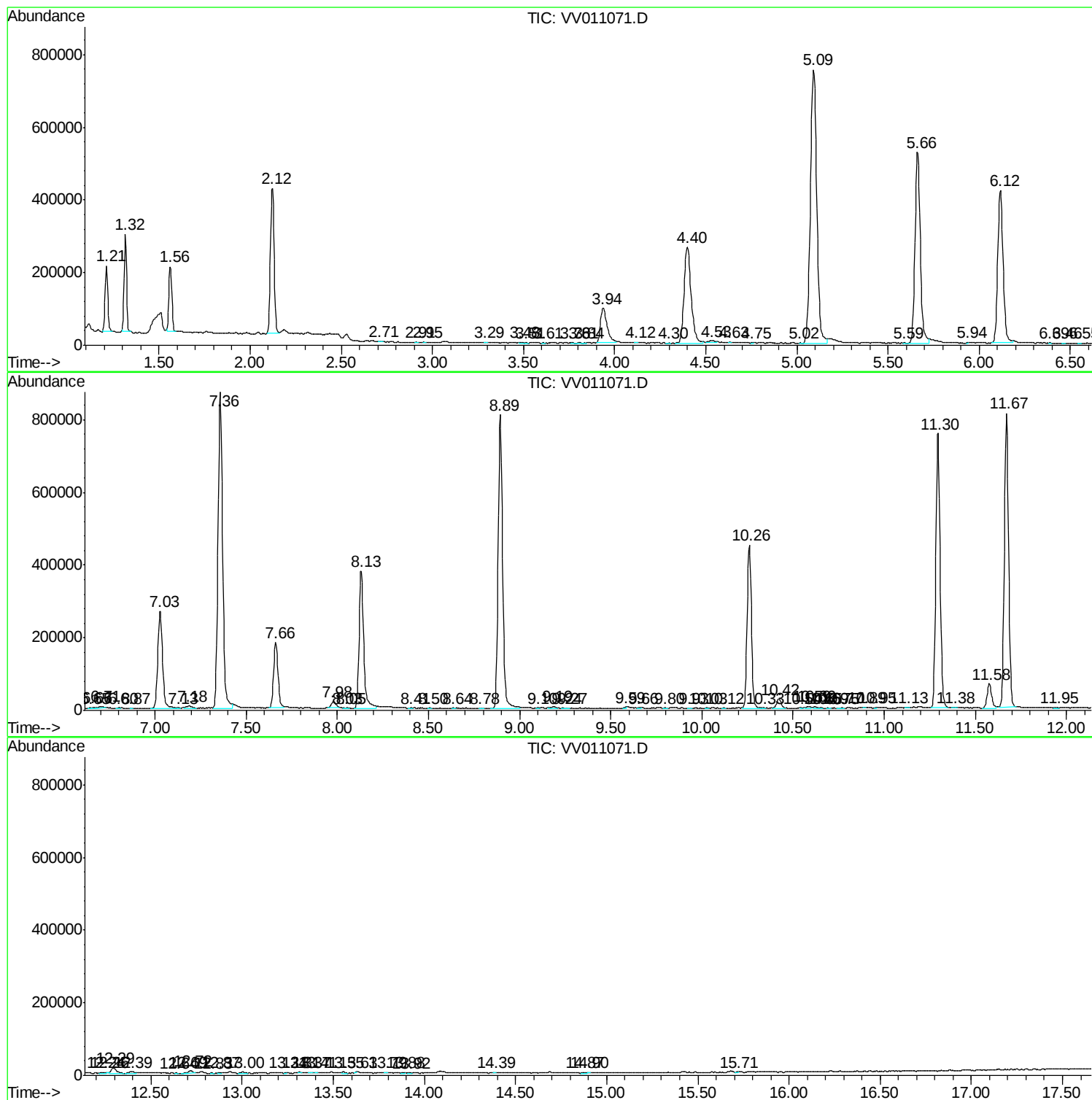
Sum of corrected areas: 13913882

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
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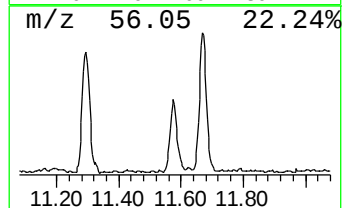
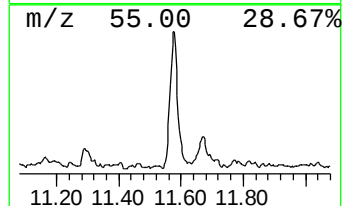
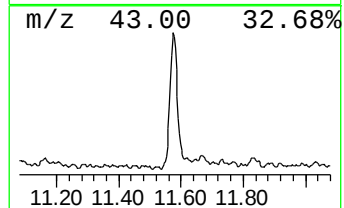
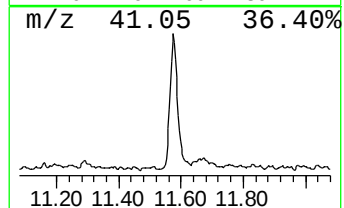
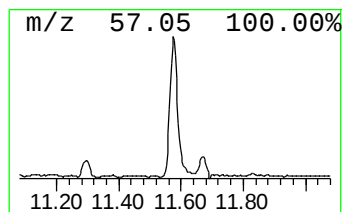
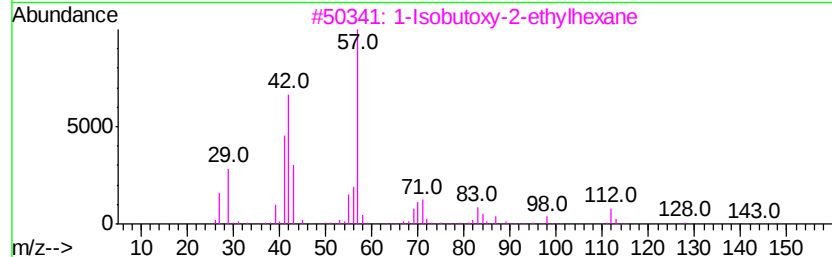
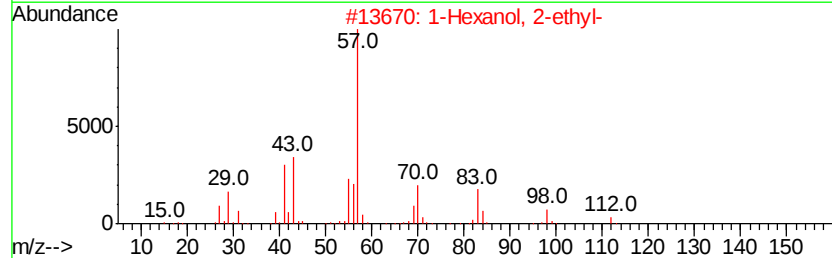
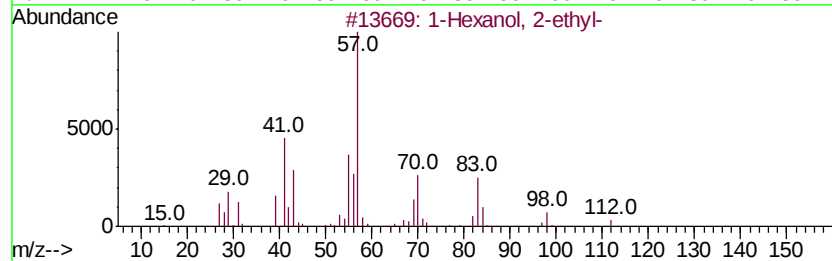
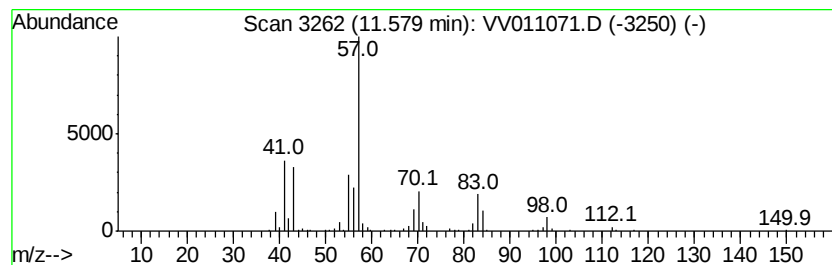
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

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

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Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 3

| R.T.    | EstConc                   | Area         | Relative to ISTD       | R.T.      |
|---------|---------------------------|--------------|------------------------|-----------|
| 11.58   | 2.36 ug/L                 | 116451       | 1,4-Dichlorobenzene-d4 | 11.30     |
| Hit# of | 5                         | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1-Hexanol, 2-ethyl-       | 130 C8H18O   | 000104-76-7            | 90        |
| 2       | 1-Hexanol, 2-ethyl-       | 130 C8H18O   | 000104-76-7            | 78        |
| 3       | 1-Isobutoxy-2-ethylhexane | 186 C12H26O  | 1000139-90-3           | 78        |
| 4       | 1-Hexanol, 2-ethyl-       | 130 C8H18O   | 000104-76-7            | 64        |
| 5       | Heptane, 1,1'-oxybis-     | 214 C14H30O  | 000629-64-1            | 59        |



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| TIC Top Hit name    | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|---------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                     |       |         |       |          | #                     | RT    | Resp    | Conc |
| 1-Hexanol, 2-ethyl- | 11.58 | 2.4     | ug/L  | 116451   | 3                     | 11.30 | 1235030 | 25.0 |