

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081820\  
 Data File : VV018046.D  
 Acq On : 18 Aug 2020 11:58  
 Operator : SY/MD  
 Sample : L3709-15  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK02

## 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\SOMVLM081120WMA.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         | 1.315       | 63            | 70          | 86           | rVB      | 137857         | 134169        | 13.58%          | 1.766%        |
| 2         | 1.579       | 144           | 152         | 170          | rBV      | 114715         | 132861        | 13.45%          | 1.749%        |
| 3         | 2.122       | 310           | 321         | 346          | rVB      | 235500         | 357659        | 36.20%          | 4.707%        |
| 4         | 2.254       | 359           | 362         | 366          | rBV2     | 262            | 175           | 0.02%           | 0.002%        |
| 5         | 2.338       | 386           | 388         | 392          | rBV2     | 117            | 101           | 0.01%           | 0.001%        |
| 6         | 2.528       | 438           | 447         | 458          | rVB      | 4142           | 6513          | 0.66%           | 0.086%        |
| 7         | 2.573       | 458           | 461         | 464          | rBV2     | 98             | 81            | 0.01%           | 0.001%        |
| 8         | 2.640       | 475           | 482         | 488          | rVB3     | 484            | 651           | 0.07%           | 0.009%        |
| 9         | 2.955       | 578           | 580         | 587          | rVB2     | 163            | 141           | 0.01%           | 0.002%        |
| 10        | 2.997       | 590           | 593         | 595          | rVV      | 158            | 86            | 0.01%           | 0.001%        |
| 11        | 3.013       | 595           | 598         | 602          | rVB      | 144            | 96            | 0.01%           | 0.001%        |
| 12        | 3.148       | 636           | 640         | 643          | rVB2     | 155            | 122           | 0.01%           | 0.002%        |
| 13        | 3.216       | 656           | 661         | 666          | rBV2     | 146            | 144           | 0.01%           | 0.002%        |
| 14        | 3.245       | 666           | 670         | 675          | rBV2     | 107            | 114           | 0.01%           | 0.002%        |
| 15        | 3.595       | 773           | 779         | 781          | rBV      | 130            | 125           | 0.01%           | 0.002%        |
| 16        | 3.663       | 795           | 800         | 805          | rVV2     | 90             | 109           | 0.01%           | 0.001%        |
| 17        | 3.717       | 813           | 817         | 820          | rBV2     | 132            | 102           | 0.01%           | 0.001%        |
| 18        | 3.772       | 831           | 834         | 838          | rBV      | 166            | 144           | 0.01%           | 0.002%        |
| 19        | 3.910       | 864           | 877         | 912          | rBV2     | 69394          | 213729        | 21.63%          | 2.813%        |
| 20        | 4.376       | 1005          | 1022        | 1049         | rBV      | 155987         | 388393        | 39.31%          | 5.112%        |
| 21        | 4.527       | 1067          | 1069        | 1074         | rVB2     | 396            | 228           | 0.02%           | 0.003%        |
| 22        | 4.553       | 1074          | 1077        | 1080         | rVB      | 246            | 136           | 0.01%           | 0.002%        |
| 23        | 4.643       | 1099          | 1105        | 1108         | rVB      | 107            | 114           | 0.01%           | 0.002%        |
| 24        | 4.707       | 1123          | 1125        | 1130         | rVB2     | 171            | 134           | 0.01%           | 0.002%        |
| 25        | 4.736       | 1130          | 1134        | 1136         | rBV2     | 231            | 169           | 0.02%           | 0.002%        |
| 26        | 4.756       | 1136          | 1140        | 1143         | rVV2     | 99             | 89            | 0.01%           | 0.001%        |
| 27        | 4.881       | 1176          | 1179        | 1185         | rVB2     | 110            | 83            | 0.01%           | 0.001%        |
| 28        | 4.933       | 1191          | 1195        | 1198         | rVB2     | 102            | 99            | 0.01%           | 0.001%        |
| 29        | 4.965       | 1198          | 1205        | 1211         | rBV2     | 234            | 353           | 0.04%           | 0.005%        |
| 30        | 5.074       | 1220          | 1239        | 1272         | rVV2     | 381364         | 988021        | 100.00%         | 13.003%       |
| 31        | 5.257       | 1294          | 1296        | 1300         | rBV3     | 231            | 163           | 0.02%           | 0.002%        |
| 32        | 5.331       | 1316          | 1319        | 1323         | rVB2     | 233            | 200           | 0.02%           | 0.003%        |
| 33        | 5.351       | 1323          | 1325        | 1330         | rVB3     | 166            | 128           | 0.01%           | 0.002%        |
| 34        | 5.396       | 1336          | 1339        | 1342         | rVV2     | 150            | 107           | 0.01%           | 0.001%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 5.447  | 1352 | 1355 | 1360 | rVB2 | 130    | 116    | 0.01%  | 0.002%  |
| 36 | 5.479  | 1360 | 1365 | 1369 | rBV  | 191    | 151    | 0.02%  | 0.002%  |
| 37 | 5.640  | 1399 | 1415 | 1436 | rBV  | 325430 | 641637 | 64.94% | 8.445%  |
| 38 | 5.929  | 1494 | 1505 | 1525 | rVB2 | 18889  | 38740  | 3.92%  | 0.510%  |
| 39 | 6.093  | 1542 | 1556 | 1582 | rBV  | 222230 | 448927 | 45.44% | 5.908%  |
| 40 | 6.235  | 1596 | 1600 | 1602 | rBV2 | 282    | 196    | 0.02%  | 0.003%  |
| 41 | 6.251  | 1602 | 1605 | 1608 | rVV2 | 422    | 305    | 0.03%  | 0.004%  |
| 42 | 6.267  | 1608 | 1610 | 1612 | rVV  | 294    | 153    | 0.02%  | 0.002%  |
| 43 | 6.299  | 1616 | 1620 | 1622 | rBV2 | 127    | 108    | 0.01%  | 0.001%  |
| 44 | 6.418  | 1653 | 1657 | 1660 | rVB2 | 135    | 108    | 0.01%  | 0.001%  |
| 45 | 6.479  | 1673 | 1676 | 1679 | rVV2 | 125    | 94     | 0.01%  | 0.001%  |
| 46 | 6.650  | 1725 | 1729 | 1733 | rVB  | 117    | 95     | 0.01%  | 0.001%  |
| 47 | 6.672  | 1733 | 1736 | 1740 | rBV  | 210    | 160    | 0.02%  | 0.002%  |
| 48 | 6.695  | 1740 | 1743 | 1747 | rBV2 | 171    | 95     | 0.01%  | 0.001%  |
| 49 | 6.788  | 1769 | 1772 | 1778 | rVB  | 169    | 141    | 0.01%  | 0.002%  |
| 50 | 6.823  | 1778 | 1783 | 1788 | rBV2 | 124    | 129    | 0.01%  | 0.002%  |
| 51 | 7.006  | 1829 | 1840 | 1869 | rBV  | 117410 | 212838 | 21.54% | 2.801%  |
| 52 | 7.215  | 1902 | 1905 | 1909 | rVB2 | 237    | 164    | 0.02%  | 0.002%  |
| 53 | 7.338  | 1928 | 1943 | 1977 | rBV  | 448577 | 770083 | 77.94% | 10.135% |
| 54 | 7.643  | 2027 | 2038 | 2067 | rBV  | 83862  | 145783 | 14.76% | 1.919%  |
| 55 | 7.887  | 2110 | 2114 | 2117 | rBV  | 170    | 141    | 0.01%  | 0.002%  |
| 56 | 7.955  | 2128 | 2135 | 2136 | rBV  | 178    | 171    | 0.02%  | 0.002%  |
| 57 | 8.019  | 2151 | 2155 | 2160 | rVB  | 127    | 104    | 0.01%  | 0.001%  |
| 58 | 8.109  | 2172 | 2183 | 2223 | rBV2 | 173181 | 348020 | 35.22% | 4.580%  |
| 59 | 8.447  | 2278 | 2288 | 2294 | rBV4 | 1522   | 2438   | 0.25%  | 0.032%  |
| 60 | 8.559  | 2317 | 2323 | 2326 | rBV2 | 173    | 195    | 0.02%  | 0.003%  |
| 61 | 8.759  | 2382 | 2385 | 2389 | rBV2 | 95     | 94     | 0.01%  | 0.001%  |
| 62 | 8.871  | 2408 | 2420 | 2448 | rBV  | 498120 | 807388 | 81.72% | 10.626% |
| 63 | 9.093  | 2487 | 2489 | 2492 | rVB2 | 170    | 99     | 0.01%  | 0.001%  |
| 64 | 9.244  | 2531 | 2536 | 2538 | rBV  | 100    | 96     | 0.01%  | 0.001%  |
| 65 | 9.649  | 2658 | 2662 | 2664 | rBV  | 132    | 104    | 0.01%  | 0.001%  |
| 66 | 9.698  | 2673 | 2677 | 2680 | rBV2 | 205    | 206    | 0.02%  | 0.003%  |
| 67 | 9.826  | 2714 | 2717 | 2720 | rVB  | 144    | 86     | 0.01%  | 0.001%  |
| 68 | 9.871  | 2728 | 2731 | 2734 | rBV  | 139    | 91     | 0.01%  | 0.001%  |
| 69 | 10.161 | 2815 | 2821 | 2825 | rBV2 | 127    | 150    | 0.02%  | 0.002%  |
| 70 | 10.183 | 2825 | 2828 | 2832 | rVB  | 133    | 104    | 0.01%  | 0.001%  |
| 71 | 10.238 | 2832 | 2845 | 2868 | rBV  | 270773 | 420246 | 42.53% | 5.531%  |

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 Start Thrs: 0.2  
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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\SOMVLM081120WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 10.379 | 2884 | 2889 | 2892 | rBV2 | 151    | 149    | 0.02%  | 0.002%  |
| 73  | 10.511 | 2926 | 2930 | 2934 | rBV  | 141    | 137    | 0.01%  | 0.002%  |
| 74  | 10.582 | 2949 | 2952 | 2958 | rBV2 | 118    | 132    | 0.01%  | 0.002%  |
| 75  | 10.743 | 3000 | 3002 | 3007 | rVB  | 200    | 124    | 0.01%  | 0.002%  |
| 76  | 10.865 | 3036 | 3040 | 3044 | rBV2 | 141    | 142    | 0.01%  | 0.002%  |
| 77  | 10.926 | 3056 | 3059 | 3065 | rBV2 | 80     | 86     | 0.01%  | 0.001%  |
| 78  | 11.006 | 3079 | 3084 | 3087 | rBV2 | 136    | 157    | 0.02%  | 0.002%  |
| 79  | 11.151 | 3125 | 3129 | 3131 | rBV2 | 183    | 118    | 0.01%  | 0.002%  |
| 80  | 11.270 | 3154 | 3166 | 3187 | rBV  | 513405 | 779981 | 78.94% | 10.265% |
| 81  | 11.553 | 3251 | 3254 | 3256 | rBV  | 164    | 99     | 0.01%  | 0.001%  |
| 82  | 11.646 | 3270 | 3283 | 3307 | rBV  | 477953 | 748580 | 75.77% | 9.852%  |
| 83  | 11.730 | 3307 | 3309 | 3315 | rVV3 | 260    | 292    | 0.03%  | 0.004%  |
| 84  | 11.826 | 3336 | 3339 | 3343 | rVB2 | 143    | 104    | 0.01%  | 0.001%  |
| 85  | 12.469 | 3536 | 3539 | 3540 | rBV2 | 152    | 88     | 0.01%  | 0.001%  |
| 86  | 12.579 | 3570 | 3573 | 3578 | rBV  | 180    | 182    | 0.02%  | 0.002%  |
| 87  | 12.601 | 3578 | 3580 | 3583 | rVV  | 166    | 81     | 0.01%  | 0.001%  |
| 88  | 12.730 | 3617 | 3620 | 3624 | rBV  | 141    | 113    | 0.01%  | 0.001%  |
| 89  | 12.842 | 3652 | 3655 | 3658 | rBV  | 211    | 178    | 0.02%  | 0.002%  |
| 90  | 13.035 | 3712 | 3715 | 3717 | rBV2 | 187    | 130    | 0.01%  | 0.002%  |
| 91  | 13.167 | 3753 | 3756 | 3759 | rBV2 | 142    | 112    | 0.01%  | 0.001%  |
| 92  | 13.363 | 3813 | 3817 | 3822 | rVB3 | 308    | 264    | 0.03%  | 0.003%  |
| 93  | 13.489 | 3852 | 3856 | 3858 | rBV  | 160    | 133    | 0.01%  | 0.002%  |
| 94  | 13.746 | 3933 | 3936 | 3938 | rBV2 | 171    | 96     | 0.01%  | 0.001%  |
| 95  | 13.874 | 3973 | 3976 | 3978 | rBV  | 208    | 143    | 0.01%  | 0.002%  |
| 96  | 14.106 | 4045 | 4048 | 4052 | rBV2 | 310    | 279    | 0.03%  | 0.004%  |
| 97  | 14.257 | 4091 | 4095 | 4097 | rBV3 | 255    | 204    | 0.02%  | 0.003%  |
| 98  | 14.328 | 4114 | 4117 | 4120 | rBV  | 213    | 179    | 0.02%  | 0.002%  |
| 99  | 14.347 | 4120 | 4123 | 4126 | rBV  | 298    | 220    | 0.02%  | 0.003%  |
| 100 | 16.447 | 4774 | 4776 | 4780 | rBV3 | 598    | 429    | 0.04%  | 0.006%  |

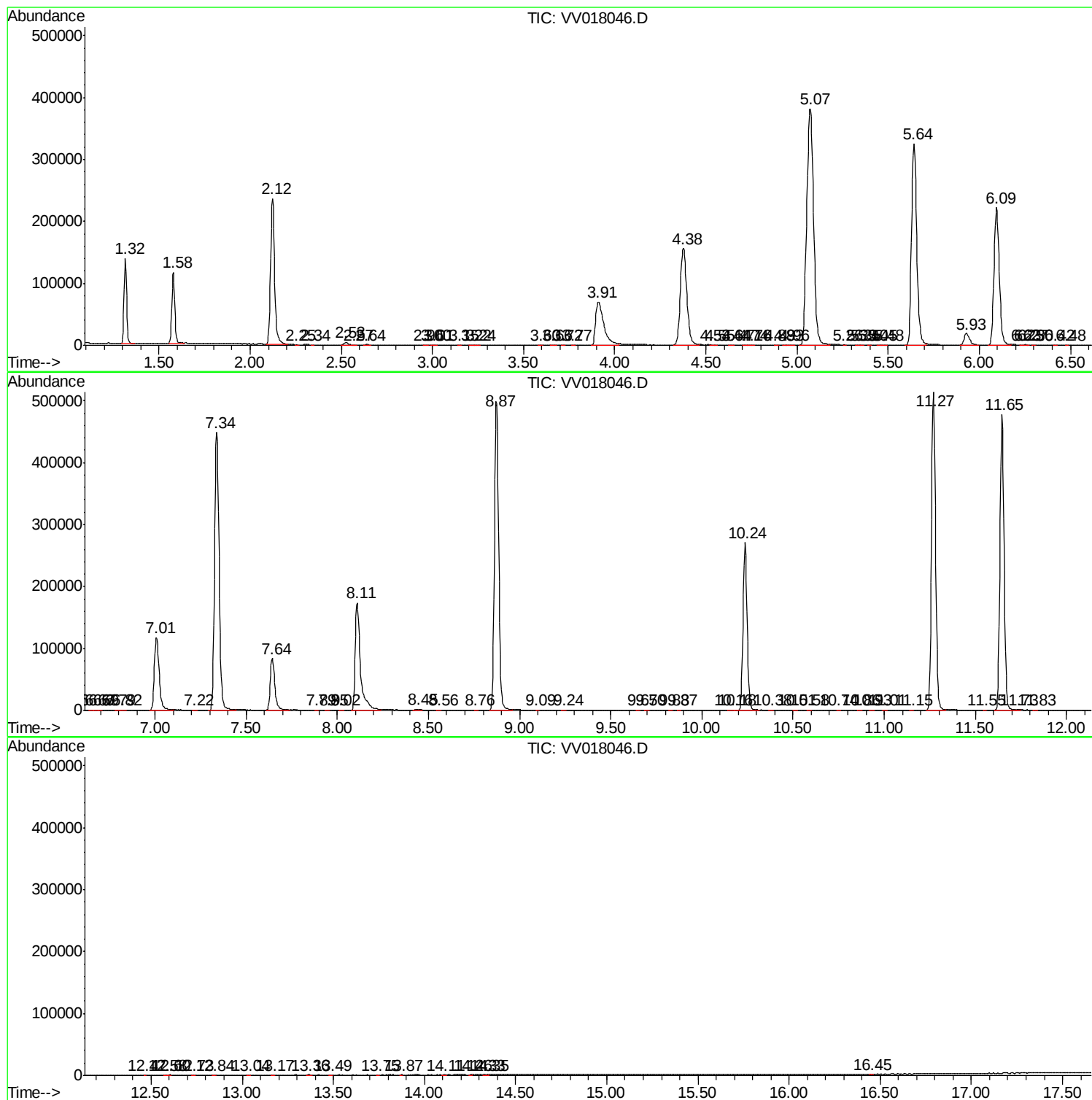
Sum of corrected areas: 7598227

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV081820\  
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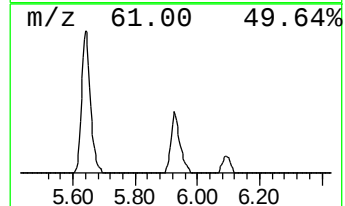
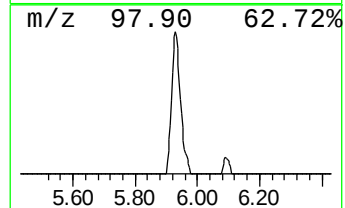
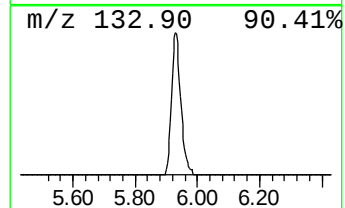
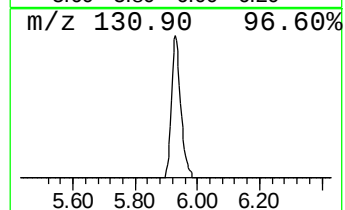
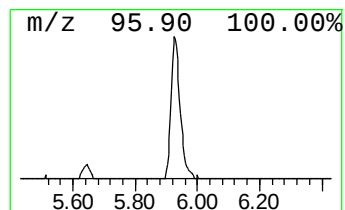
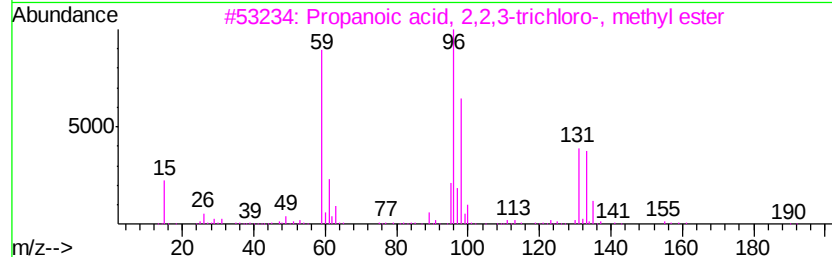
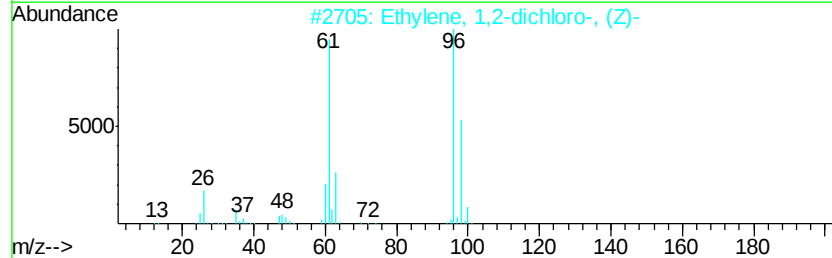
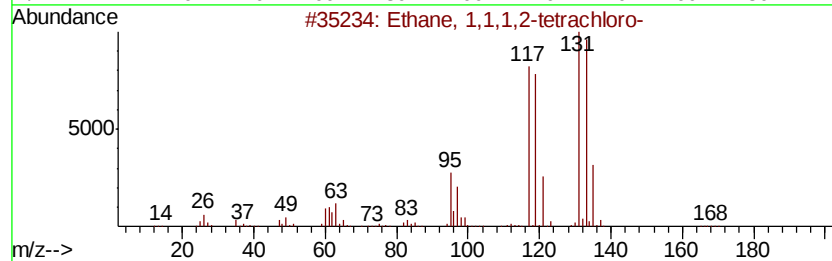
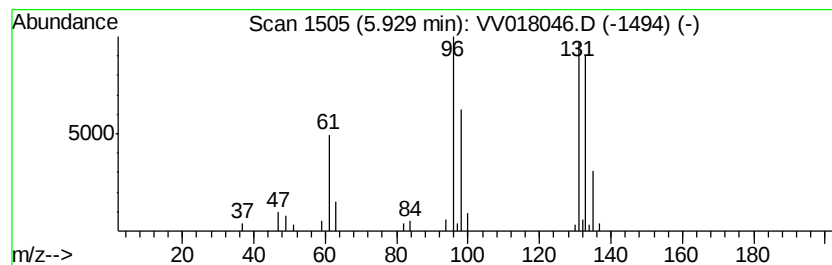
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 unknown-01 Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.93 | 3.02 ug/L | 38740 | 1,4-Difluorobenzene | 5.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 43   |
| 2    |    | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 38   |
| 3    |    | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 37   |
| 4    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 25   |
| 5    |    | Heptanoic acid, heptyl ester        | 228 | C14H28O2  | 000624-09-9 | 10   |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| unknown-01       | 5.93 | 3.0     | ug/L  | 38740    | 1                     | 5.64 | 641637 | 50.0 |