

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120619\  
 Data File : VV013946.D  
 Acq On : 06 Dec 2019 18:21  
 Operator : SY/MD  
 Sample : K6170-13  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0BT9

## 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\SOMVLM120219WMA.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         | 1.319       | 65            | 71          | 81           | rVB      | 304180         | 295470        | 14.56%          | 1.954%        |
| 2         | 1.573       | 144           | 150         | 163          | rVB      | 300500         | 343953        | 16.95%          | 2.275%        |
| 3         | 2.126       | 314           | 322         | 337          | rVB      | 583390         | 811556        | 39.98%          | 5.367%        |
| 4         | 2.602       | 466           | 470         | 474          | rBV4     | 880            | 899           | 0.04%           | 0.006%        |
| 5         | 2.630       | 477           | 479         | 481          | rBV2     | 1585           | 837           | 0.04%           | 0.006%        |
| 6         | 3.003       | 592           | 595         | 597          | rBV3     | 1403           | 834           | 0.04%           | 0.006%        |
| 7         | 3.065       | 612           | 614         | 617          | rBV3     | 1373           | 758           | 0.04%           | 0.005%        |
| 8         | 3.148       | 637           | 640         | 646          | rVB7     | 1133           | 1175          | 0.06%           | 0.008%        |
| 9         | 3.193       | 649           | 654         | 657          | rBV6     | 1325           | 1062          | 0.05%           | 0.007%        |
| 10        | 3.261       | 673           | 675         | 679          | rVB4     | 1122           | 708           | 0.03%           | 0.005%        |
| 11        | 3.364       | 705           | 707         | 712          | rBV4     | 1801           | 1132          | 0.06%           | 0.007%        |
| 12        | 3.499       | 745           | 749         | 750          | rBV3     | 1479           | 620           | 0.03%           | 0.004%        |
| 13        | 3.515       | 750           | 754         | 757          | rBV3     | 1602           | 1383          | 0.07%           | 0.009%        |
| 14        | 3.618       | 783           | 786         | 789          | rVV4     | 1216           | 704           | 0.03%           | 0.005%        |
| 15        | 3.647       | 789           | 795         | 797          | rVB4     | 975            | 851           | 0.04%           | 0.006%        |
| 16        | 3.659       | 797           | 799         | 801          | rBV2     | 1201           | 710           | 0.03%           | 0.005%        |
| 17        | 3.772       | 830           | 834         | 836          | rVB4     | 946            | 680           | 0.03%           | 0.004%        |
| 18        | 3.794       | 836           | 841         | 842          | rBV3     | 1328           | 1109          | 0.05%           | 0.007%        |
| 19        | 3.923       | 867           | 881         | 906          | rBV      | 151663         | 403793        | 19.89%          | 2.670%        |
| 20        | 4.164       | 953           | 956         | 959          | rBV4     | 2046           | 1359          | 0.07%           | 0.009%        |
| 21        | 4.283       | 990           | 993         | 997          | rBV3     | 1325           | 1129          | 0.06%           | 0.007%        |
| 22        | 4.315       | 1001          | 1003        | 1007         | rVB4     | 1456           | 789           | 0.04%           | 0.005%        |
| 23        | 4.341       | 1007          | 1011        | 1012         | rBV4     | 1623           | 1148          | 0.06%           | 0.008%        |
| 24        | 4.392       | 1012          | 1027        | 1050         | rBV      | 341644         | 828609        | 40.82%          | 5.480%        |
| 25        | 4.646       | 1100          | 1106        | 1112         | rBV9     | 1993           | 2829          | 0.14%           | 0.019%        |
| 26        | 4.756       | 1138          | 1140        | 1142         | rBV2     | 1443           | 715           | 0.04%           | 0.005%        |
| 27        | 4.852       | 1165          | 1170        | 1174         | rBV6     | 1538           | 1390          | 0.07%           | 0.009%        |
| 28        | 4.875       | 1174          | 1177        | 1180         | rVB4     | 1158           | 768           | 0.04%           | 0.005%        |
| 29        | 4.933       | 1191          | 1195        | 1196         | rBV4     | 1020           | 657           | 0.03%           | 0.004%        |
| 30        | 4.991       | 1211          | 1213        | 1214         | rBV2     | 1419           | 656           | 0.03%           | 0.004%        |
| 31        | 5.019       | 1218          | 1222        | 1225         | rBV4     | 1168           | 1085          | 0.05%           | 0.007%        |
| 32        | 5.090       | 1226          | 1244        | 1275         | rBV2     | 802046         | 2029677       | 100.00%         | 13.423%       |
| 33        | 5.502       | 1369          | 1372        | 1373         | rBV3     | 1582           | 668           | 0.03%           | 0.004%        |
| 34        | 5.659       | 1404          | 1421        | 1443         | rBV      | 717843         | 1413709       | 69.65%          | 9.349%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 5.945  | 1500 | 1510 | 1524 | rVB2 | 37127   | 75611   | 3.73%  | 0.500%  |
| 36 | 6.113  | 1549 | 1562 | 1581 | rBV  | 434477  | 879677  | 43.34% | 5.817%  |
| 37 | 6.425  | 1654 | 1659 | 1661 | rVB5 | 1605    | 1172    | 0.06%  | 0.008%  |
| 38 | 6.453  | 1665 | 1668 | 1671 | rVB3 | 1806    | 1287    | 0.06%  | 0.009%  |
| 39 | 6.482  | 1671 | 1677 | 1679 | rBV6 | 2087    | 2256    | 0.11%  | 0.015%  |
| 40 | 6.543  | 1692 | 1696 | 1698 | rVV3 | 1749    | 1309    | 0.06%  | 0.009%  |
| 41 | 6.605  | 1711 | 1715 | 1717 | rBV3 | 1782    | 1504    | 0.07%  | 0.010%  |
| 42 | 6.836  | 1783 | 1787 | 1790 | rBV4 | 1603    | 1226    | 0.06%  | 0.008%  |
| 43 | 6.929  | 1812 | 1816 | 1818 | rBV5 | 1296    | 797     | 0.04%  | 0.005%  |
| 44 | 6.965  | 1825 | 1827 | 1831 | rVB5 | 2186    | 1128    | 0.06%  | 0.007%  |
| 45 | 7.026  | 1832 | 1846 | 1865 | rBV  | 218610  | 394042  | 19.41% | 2.606%  |
| 46 | 7.151  | 1882 | 1885 | 1887 | rBV2 | 1582    | 1179    | 0.06%  | 0.008%  |
| 47 | 7.357  | 1935 | 1949 | 1966 | rBV  | 855607  | 1495827 | 73.70% | 9.892%  |
| 48 | 7.659  | 2033 | 2043 | 2058 | rBV  | 154298  | 266166  | 13.11% | 1.760%  |
| 49 | 7.836  | 2094 | 2098 | 2099 | rBV4 | 1816    | 1246    | 0.06%  | 0.008%  |
| 50 | 8.129  | 2176 | 2189 | 2218 | rBV2 | 398275  | 837010  | 41.24% | 5.535%  |
| 51 | 8.743  | 2378 | 2380 | 2384 | rVB4 | 1550    | 901     | 0.04%  | 0.006%  |
| 52 | 8.817  | 2399 | 2403 | 2406 | rBV4 | 1343    | 1235    | 0.06%  | 0.008%  |
| 53 | 8.891  | 2414 | 2426 | 2446 | rBV  | 1059947 | 1691031 | 83.32% | 11.183% |
| 54 | 9.138  | 2501 | 2503 | 2507 | rVB4 | 1884    | 1005    | 0.05%  | 0.007%  |
| 55 | 9.219  | 2525 | 2528 | 2533 | rVB5 | 1823    | 1391    | 0.07%  | 0.009%  |
| 56 | 9.444  | 2595 | 2598 | 2603 | rVB7 | 1020    | 920     | 0.05%  | 0.006%  |
| 57 | 9.772  | 2697 | 2700 | 2704 | rVB3 | 1464    | 1119    | 0.06%  | 0.007%  |
| 58 | 9.794  | 2704 | 2707 | 2710 | rBV4 | 1768    | 1087    | 0.05%  | 0.007%  |
| 59 | 9.839  | 2719 | 2721 | 2724 | rVB3 | 1783    | 947     | 0.05%  | 0.006%  |
| 60 | 9.961  | 2757 | 2759 | 2763 | rBV2 | 923     | 743     | 0.04%  | 0.005%  |
| 61 | 10.193 | 2828 | 2831 | 2832 | rBV2 | 1175    | 708     | 0.03%  | 0.005%  |
| 62 | 10.254 | 2839 | 2850 | 2872 | rVB  | 578984  | 912598  | 44.96% | 6.035%  |
| 63 | 10.408 | 2894 | 2898 | 2899 | rBV2 | 1616    | 1076    | 0.05%  | 0.007%  |
| 64 | 10.473 | 2913 | 2918 | 2920 | rBV3 | 1263    | 953     | 0.05%  | 0.006%  |
| 65 | 10.688 | 2980 | 2985 | 2987 | rBV3 | 1887    | 1399    | 0.07%  | 0.009%  |
| 66 | 10.711 | 2990 | 2992 | 2996 | rVV5 | 1317    | 1151    | 0.06%  | 0.008%  |
| 67 | 10.752 | 2998 | 3005 | 3009 | rVB8 | 1220    | 1357    | 0.07%  | 0.009%  |
| 68 | 10.868 | 3038 | 3041 | 3045 | rBV3 | 1125    | 989     | 0.05%  | 0.007%  |
| 69 | 10.955 | 3065 | 3068 | 3071 | rBV3 | 1473    | 1233    | 0.06%  | 0.008%  |
| 70 | 11.058 | 3096 | 3100 | 3104 | rBV6 | 1319    | 1219    | 0.06%  | 0.008%  |
| 71 | 11.122 | 3118 | 3120 | 3123 | rBV2 | 1391    | 794     | 0.04%  | 0.005%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |         |        |        |
|-----|--------|------|------|------|-------|--------|---------|--------|--------|
| 72  | 11.190 | 3136 | 3141 | 3142 | rBV3  | 1110   | 832     | 0.04%  | 0.006% |
| 73  | 11.289 | 3160 | 3172 | 3188 | rBV   | 769912 | 1198159 | 59.03% | 7.924% |
| 74  | 11.447 | 3217 | 3221 | 3224 | rBV5  | 1525   | 1426    | 0.07%  | 0.009% |
| 75  | 11.521 | 3241 | 3244 | 3246 | rBV2  | 1176   | 637     | 0.03%  | 0.004% |
| 76  | 11.543 | 3249 | 3251 | 3253 | rBV3  | 1259   | 657     | 0.03%  | 0.004% |
| 77  | 11.665 | 3276 | 3289 | 3308 | rBV   | 722048 | 1156654 | 56.99% | 7.649% |
| 78  | 12.032 | 3398 | 3403 | 3405 | rBV4  | 913    | 821     | 0.04%  | 0.005% |
| 79  | 12.045 | 3405 | 3407 | 3409 | rVB3  | 1436   | 671     | 0.03%  | 0.004% |
| 80  | 12.064 | 3409 | 3413 | 3416 | rVB3  | 1171   | 808     | 0.04%  | 0.005% |
| 81  | 12.090 | 3416 | 3421 | 3422 | rBV3  | 1829   | 1270    | 0.06%  | 0.008% |
| 82  | 12.154 | 3439 | 3441 | 3444 | rBV2  | 1204   | 700     | 0.03%  | 0.005% |
| 83  | 12.174 | 3445 | 3447 | 3450 | rBV3  | 1074   | 693     | 0.03%  | 0.005% |
| 84  | 12.283 | 3477 | 3481 | 3482 | rBV3  | 1162   | 999     | 0.05%  | 0.007% |
| 85  | 12.354 | 3501 | 3503 | 3506 | rBV3  | 1014   | 658     | 0.03%  | 0.004% |
| 86  | 12.408 | 3515 | 3520 | 3525 | rBV8  | 1443   | 1544    | 0.08%  | 0.010% |
| 87  | 12.434 | 3526 | 3528 | 3531 | rVV3  | 1410   | 782     | 0.04%  | 0.005% |
| 88  | 12.453 | 3531 | 3534 | 3541 | rVB8  | 1337   | 1375    | 0.07%  | 0.009% |
| 89  | 12.482 | 3541 | 3543 | 3547 | rBV4  | 1450   | 932     | 0.05%  | 0.006% |
| 90  | 12.537 | 3558 | 3560 | 3566 | rVB7  | 1470   | 1447    | 0.07%  | 0.010% |
| 91  | 12.688 | 3598 | 3607 | 3610 | rBV10 | 2740   | 3859    | 0.19%  | 0.026% |
| 92  | 12.720 | 3615 | 3617 | 3620 | rBV2  | 1555   | 778     | 0.04%  | 0.005% |
| 93  | 12.842 | 3651 | 3655 | 3656 | rBV4  | 1255   | 796     | 0.04%  | 0.005% |
| 94  | 12.884 | 3666 | 3668 | 3670 | rBV2  | 1327   | 652     | 0.03%  | 0.004% |
| 95  | 13.415 | 3831 | 3833 | 3837 | rVB4  | 1162   | 820     | 0.04%  | 0.005% |
| 96  | 13.489 | 3854 | 3856 | 3859 | rBV2  | 1420   | 706     | 0.03%  | 0.005% |
| 97  | 13.868 | 3972 | 3974 | 3975 | rBV2  | 1755   | 763     | 0.04%  | 0.005% |
| 98  | 14.418 | 4143 | 4145 | 4150 | rVB3  | 1710   | 1042    | 0.05%  | 0.007% |
| 99  | 14.878 | 4286 | 4288 | 4291 | rBV4  | 1737   | 1011    | 0.05%  | 0.007% |
| 100 | 14.913 | 4297 | 4299 | 4302 | rBV3  | 1764   | 1085    | 0.05%  | 0.007% |

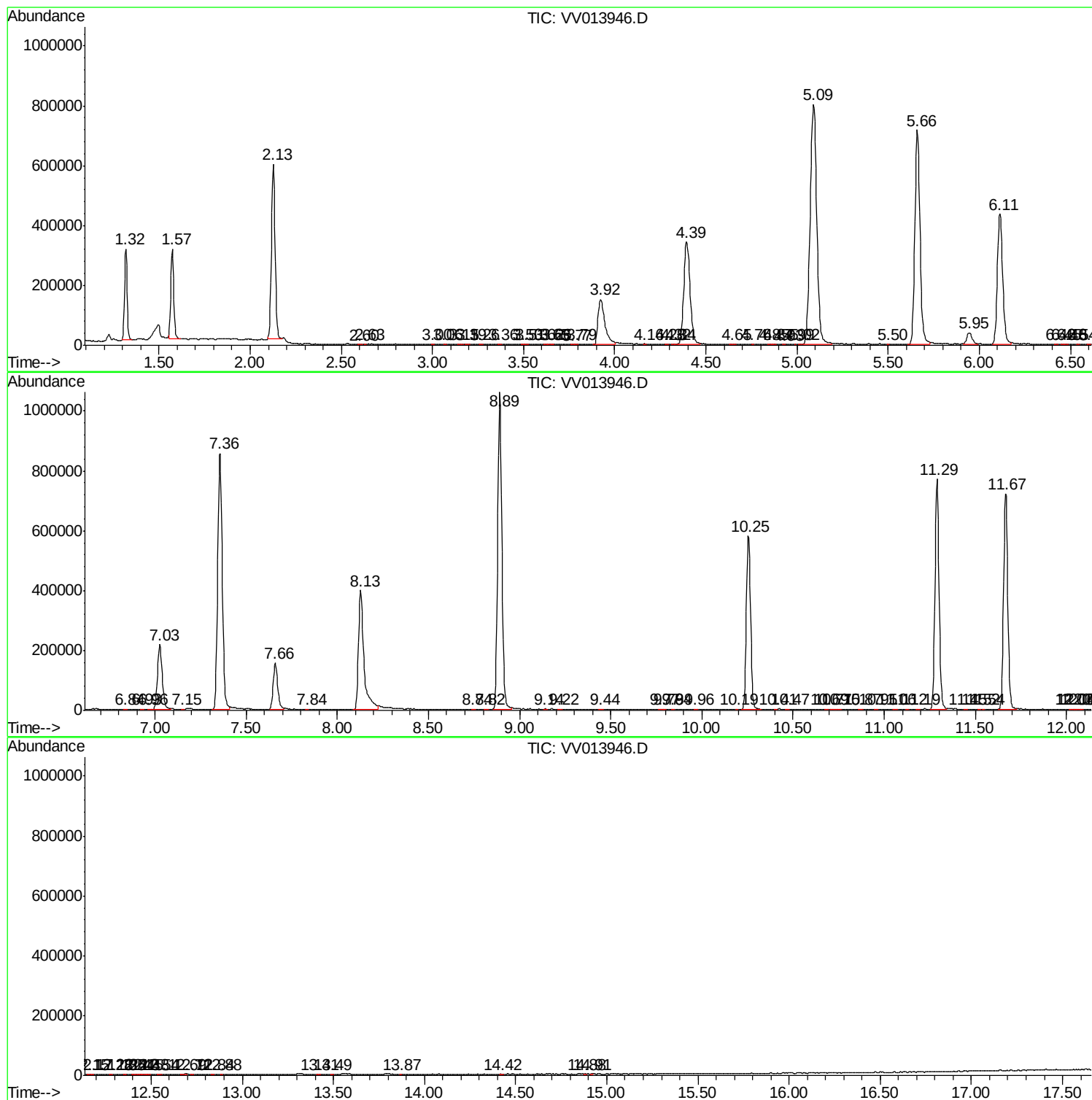
Sum of corrected areas: 15121292

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
Quant Title : VOC Analysis

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



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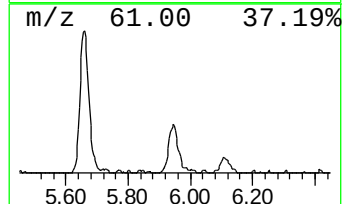
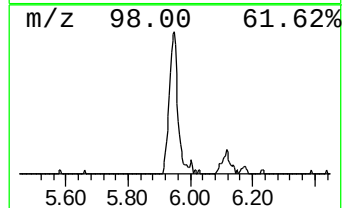
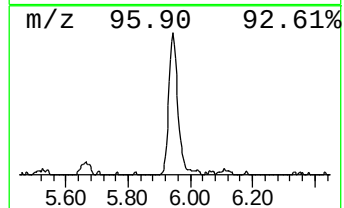
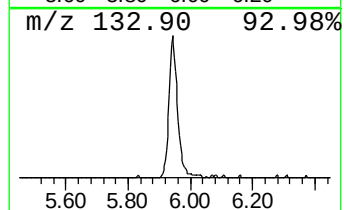
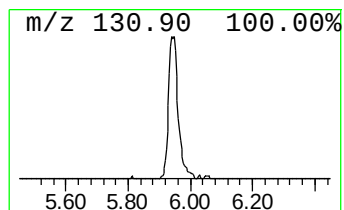
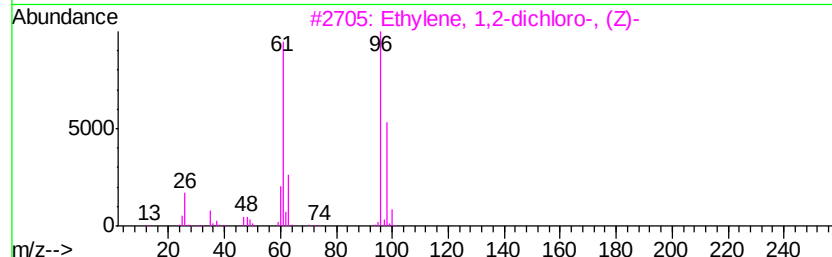
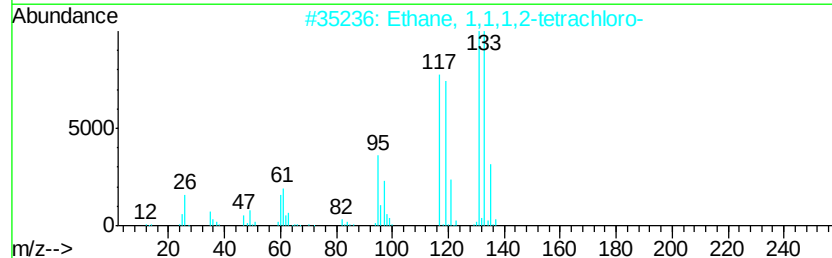
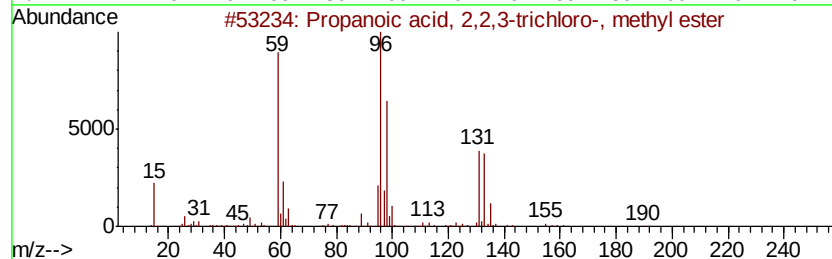
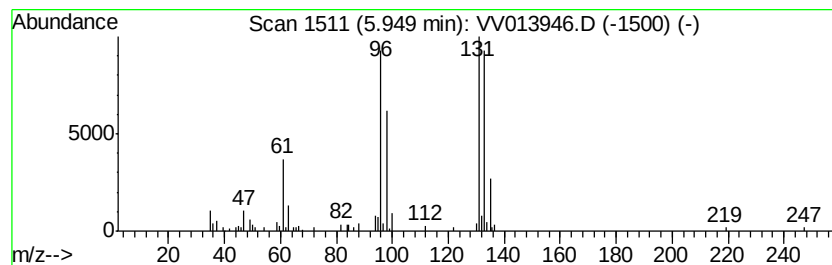
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
Quant Title : VOC Analysis

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. |
|------|-----------|-------|---------------------|------|
| 5.95 | 2.67 ug/L | 75611 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 37   |
| 2    |    |   | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 28   |
| 3    |    |   | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 27   |
| 4    |    |   | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 23   |
| 5    |    |   | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 17   |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                  |      |         |       |          | #                     | RT   | Resp    | Conc |
| unknown-01       | 5.95 | 2.7     | ug/L  | 75611    | 1                     | 5.66 | 1413710 | 50.0 |