

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100220\  
 Data File : VV018640.D  
 Acq On : 02 Oct 2020 21:09  
 Operator : SY/MD  
 Sample : L4203-05  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3S3

## 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\SOMVLM092920WMA.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      | 1.315    | 63         | 70       | 82        | rVB   | 127009      | 129133     | 13.67%       | 1.669%     |
| 2      | 1.576    | 144        | 151      | 160       | rVB   | 112783      | 124997     | 13.23%       | 1.616%     |
| 3      | 2.119    | 311        | 320      | 336       | rBV   | 242691      | 364536     | 38.59%       | 4.713%     |
| 4      | 2.399    | 405        | 407      | 413       | rVB2  | 412         | 232        | 0.02%        | 0.003%     |
| 5      | 2.518    | 441        | 444      | 445       | rBV   | 430         | 241        | 0.03%        | 0.003%     |
| 6      | 2.663    | 486        | 489      | 490       | rBV   | 146         | 79         | 0.01%        | 0.001%     |
| 7      | 2.675    | 491        | 493      | 494       | rVV2  | 266         | 89         | 0.01%        | 0.001%     |
| 8      | 2.727    | 504        | 509      | 511       | rBV2  | 311         | 260        | 0.03%        | 0.003%     |
| 9      | 2.781    | 520        | 526      | 532       | rVB3  | 693         | 889        | 0.09%        | 0.011%     |
| 10     | 2.888    | 556        | 559      | 562       | rVB   | 301         | 199        | 0.02%        | 0.003%     |
| 11     | 3.023    | 598        | 601      | 604       | rBV   | 201         | 135        | 0.01%        | 0.002%     |
| 12     | 3.061    | 604        | 613      | 626       | rVB4  | 2230        | 4274       | 0.45%        | 0.055%     |
| 13     | 3.161    | 642        | 644      | 645       | rBV   | 151         | 67         | 0.01%        | 0.001%     |
| 14     | 3.232    | 663        | 666      | 669       | rBV   | 193         | 127        | 0.01%        | 0.002%     |
| 15     | 3.289    | 682        | 684      | 688       | rVV2  | 173         | 98         | 0.01%        | 0.001%     |
| 16     | 3.425    | 720        | 726      | 728       | rBV2  | 298         | 258        | 0.03%        | 0.003%     |
| 17     | 3.589    | 774        | 777      | 781       | rBV2  | 158         | 106        | 0.01%        | 0.001%     |
| 18     | 3.675    | 802        | 804      | 807       | rVB   | 283         | 148        | 0.02%        | 0.002%     |
| 19     | 3.804    | 842        | 844      | 850       | rVB2  | 403         | 314        | 0.03%        | 0.004%     |
| 20     | 3.836    | 850        | 854      | 856       | rVB2  | 302         | 190        | 0.02%        | 0.002%     |
| 21     | 3.852    | 856        | 859      | 864       | rBV   | 278         | 298        | 0.03%        | 0.004%     |
| 22     | 3.904    | 865        | 875      | 896       | rBV   | 64370       | 173844     | 18.40%       | 2.248%     |
| 23     | 4.376    | 1005       | 1022     | 1050      | rBV   | 155261      | 391383     | 41.43%       | 5.060%     |
| 24     | 4.624    | 1097       | 1099     | 1101      | rBV   | 143         | 77         | 0.01%        | 0.001%     |
| 25     | 4.733    | 1129       | 1133     | 1135      | rBV   | 263         | 124        | 0.01%        | 0.002%     |
| 26     | 4.775    | 1144       | 1146     | 1150      | rBV2  | 144         | 111        | 0.01%        | 0.001%     |
| 27     | 4.920    | 1187       | 1191     | 1195      | rVB2  | 239         | 196        | 0.02%        | 0.003%     |
| 28     | 4.981    | 1207       | 1210     | 1212      | rBV2  | 146         | 79         | 0.01%        | 0.001%     |
| 29     | 4.997    | 1212       | 1215     | 1218      | rBV2  | 183         | 129        | 0.01%        | 0.002%     |
| 30     | 5.071    | 1221       | 1238     | 1263      | rBV2  | 368827      | 944630     | 100.00%      | 12.212%    |
| 31     | 5.383    | 1333       | 1335     | 1338      | rVB2  | 336         | 187        | 0.02%        | 0.002%     |
| 32     | 5.402    | 1339       | 1341     | 1342      | rBV2  | 172         | 69         | 0.01%        | 0.001%     |
| 33     | 5.540    | 1381       | 1384     | 1386      | rBV2  | 232         | 151        | 0.02%        | 0.002%     |
| 34     | 5.566    | 1391       | 1392     | 1394      | rBV   | 155         | 65         | 0.01%        | 0.001%     |

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 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |         |
|----|-------|------|------|------|------|--------|--------|--------|---------|
| 35 | 5.640 | 1403 | 1415 | 1443 | rBV  | 349647 | 698625 | 73.96% | 9.032%  |
| 36 | 5.926 | 1493 | 1504 | 1528 | rVB3 | 39044  | 79167  | 8.38%  | 1.023%  |
| 37 | 6.093 | 1542 | 1556 | 1583 | rBV  | 212937 | 430669 | 45.59% | 5.568%  |
| 38 | 6.463 | 1668 | 1671 | 1675 | rBV2 | 167    | 159    | 0.02%  | 0.002%  |
| 39 | 6.495 | 1679 | 1681 | 1684 | rVB  | 194    | 102    | 0.01%  | 0.001%  |
| 40 | 6.524 | 1687 | 1690 | 1691 | rBV  | 336    | 180    | 0.02%  | 0.002%  |
| 41 | 6.582 | 1706 | 1708 | 1711 | rVB  | 387    | 152    | 0.02%  | 0.002%  |
| 42 | 6.621 | 1717 | 1720 | 1722 | rBV2 | 181    | 106    | 0.01%  | 0.001%  |
| 43 | 6.649 | 1727 | 1729 | 1730 | rBV2 | 252    | 121    | 0.01%  | 0.002%  |
| 44 | 6.688 | 1738 | 1741 | 1746 | rVB2 | 363    | 376    | 0.04%  | 0.005%  |
| 45 | 6.717 | 1746 | 1750 | 1751 | rBV2 | 299    | 195    | 0.02%  | 0.003%  |
| 46 | 6.733 | 1752 | 1755 | 1757 | rVV2 | 207    | 131    | 0.01%  | 0.002%  |
| 47 | 6.855 | 1788 | 1793 | 1796 | rBV  | 345    | 295    | 0.03%  | 0.004%  |
| 48 | 6.875 | 1796 | 1799 | 1802 | rVV2 | 176    | 164    | 0.02%  | 0.002%  |
| 49 | 6.907 | 1806 | 1809 | 1812 | rBV2 | 261    | 157    | 0.02%  | 0.002%  |
| 50 | 6.945 | 1818 | 1821 | 1824 | rBV  | 176    | 143    | 0.02%  | 0.002%  |
| 51 | 7.006 | 1829 | 1840 | 1863 | rBV2 | 117951 | 213240 | 22.57% | 2.757%  |
| 52 | 7.199 | 1898 | 1900 | 1902 | rBV  | 232    | 143    | 0.02%  | 0.002%  |
| 53 | 7.260 | 1915 | 1919 | 1920 | rBV2 | 400    | 174    | 0.02%  | 0.002%  |
| 54 | 7.338 | 1929 | 1943 | 1967 | rBV  | 442153 | 758913 | 80.34% | 9.811%  |
| 55 | 7.588 | 2019 | 2021 | 2023 | rBV  | 426    | 230    | 0.02%  | 0.003%  |
| 56 | 7.643 | 2028 | 2038 | 2055 | rBV  | 84329  | 145109 | 15.36% | 1.876%  |
| 57 | 7.813 | 2087 | 2091 | 2095 | rBV  | 213    | 219    | 0.02%  | 0.003%  |
| 58 | 7.926 | 2124 | 2126 | 2128 | rBV2 | 194    | 70     | 0.01%  | 0.001%  |
| 59 | 7.939 | 2128 | 2130 | 2132 | rBV  | 339    | 142    | 0.02%  | 0.002%  |
| 60 | 7.997 | 2141 | 2148 | 2150 | rBV2 | 1196   | 1116   | 0.12%  | 0.014%  |
| 61 | 8.109 | 2172 | 2183 | 2221 | rBV2 | 182634 | 391316 | 41.43% | 5.059%  |
| 62 | 8.463 | 2289 | 2293 | 2297 | rVB3 | 459    | 360    | 0.04%  | 0.005%  |
| 63 | 8.682 | 2356 | 2361 | 2366 | rBV2 | 263    | 303    | 0.03%  | 0.004%  |
| 64 | 8.749 | 2379 | 2382 | 2384 | rBV2 | 144    | 91     | 0.01%  | 0.001%  |
| 65 | 8.829 | 2404 | 2407 | 2408 | rBV  | 180    | 92     | 0.01%  | 0.001%  |
| 66 | 8.874 | 2408 | 2421 | 2443 | rBV  | 543617 | 878863 | 93.04% | 11.362% |
| 67 | 9.093 | 2487 | 2489 | 2491 | rBV  | 174    | 103    | 0.01%  | 0.001%  |
| 68 | 9.106 | 2491 | 2493 | 2497 | rVB  | 179    | 132    | 0.01%  | 0.002%  |
| 69 | 9.132 | 2498 | 2501 | 2504 | rVB  | 265    | 135    | 0.01%  | 0.002%  |
| 70 | 9.148 | 2504 | 2506 | 2510 | rBV  | 269    | 220    | 0.02%  | 0.003%  |
| 71 | 9.170 | 2510 | 2513 | 2515 | rBV2 | 314    | 226    | 0.02%  | 0.003%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
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|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 9.231  | 2529 | 2532 | 2536 | rBV2 | 319    | 247    | 0.03%  | 0.003%  |
| 73  | 9.456  | 2598 | 2602 | 2604 | rBV  | 233    | 204    | 0.02%  | 0.003%  |
| 74  | 9.743  | 2689 | 2691 | 2697 | rVB2 | 319    | 178    | 0.02%  | 0.002%  |
| 75  | 9.845  | 2722 | 2723 | 2731 | rVB2 | 407    | 180    | 0.02%  | 0.002%  |
| 76  | 9.926  | 2746 | 2748 | 2750 | rVB  | 223    | 71     | 0.01%  | 0.001%  |
| 77  | 10.238 | 2833 | 2845 | 2863 | rBV  | 230780 | 365766 | 38.72% | 4.729%  |
| 78  | 10.334 | 2871 | 2875 | 2876 | rBV  | 352    | 245    | 0.03%  | 0.003%  |
| 79  | 10.386 | 2889 | 2891 | 2892 | rBV  | 274    | 123    | 0.01%  | 0.002%  |
| 80  | 10.476 | 2916 | 2919 | 2926 | rBV2 | 245    | 212    | 0.02%  | 0.003%  |
| 81  | 10.649 | 2968 | 2973 | 2976 | rBV2 | 356    | 390    | 0.04%  | 0.005%  |
| 82  | 10.688 | 2982 | 2985 | 2988 | rBV  | 215    | 164    | 0.02%  | 0.002%  |
| 83  | 10.887 | 3045 | 3047 | 3053 | rVB2 | 323    | 179    | 0.02%  | 0.002%  |
| 84  | 10.916 | 3053 | 3056 | 3058 | rBV  | 137    | 88     | 0.01%  | 0.001%  |
| 85  | 10.935 | 3060 | 3062 | 3065 | rBV2 | 316    | 172    | 0.02%  | 0.002%  |
| 86  | 11.270 | 3155 | 3166 | 3187 | rBV  | 563556 | 860727 | 91.12% | 11.128% |
| 87  | 11.447 | 3218 | 3221 | 3225 | rBV2 | 394    | 392    | 0.04%  | 0.005%  |
| 88  | 11.646 | 3271 | 3283 | 3303 | rBV  | 487122 | 762739 | 80.74% | 9.861%  |
| 89  | 11.749 | 3313 | 3315 | 3317 | rBV2 | 394    | 211    | 0.02%  | 0.003%  |
| 90  | 11.878 | 3351 | 3355 | 3358 | rBV2 | 482    | 342    | 0.04%  | 0.004%  |
| 91  | 11.939 | 3371 | 3374 | 3380 | rVB  | 359    | 316    | 0.03%  | 0.004%  |
| 92  | 11.968 | 3381 | 3383 | 3388 | rBV3 | 241    | 195    | 0.02%  | 0.003%  |
| 93  | 12.614 | 3581 | 3584 | 3588 | rBV  | 338    | 297    | 0.03%  | 0.004%  |
| 94  | 13.128 | 3742 | 3744 | 3747 | rVB2 | 377    | 181    | 0.02%  | 0.002%  |
| 95  | 13.183 | 3755 | 3761 | 3769 | rBV  | 457    | 726    | 0.08%  | 0.009%  |
| 96  | 13.308 | 3797 | 3800 | 3801 | rBV  | 365    | 188    | 0.02%  | 0.002%  |
| 97  | 13.611 | 3891 | 3894 | 3898 | rVB2 | 370    | 221    | 0.02%  | 0.003%  |
| 98  | 13.633 | 3898 | 3901 | 3903 | rBV2 | 239    | 179    | 0.02%  | 0.002%  |
| 99  | 13.742 | 3933 | 3935 | 3937 | rBV2 | 287    | 106    | 0.01%  | 0.001%  |
| 100 | 14.382 | 4131 | 4134 | 4136 | rBV3 | 338    | 255    | 0.03%  | 0.003%  |

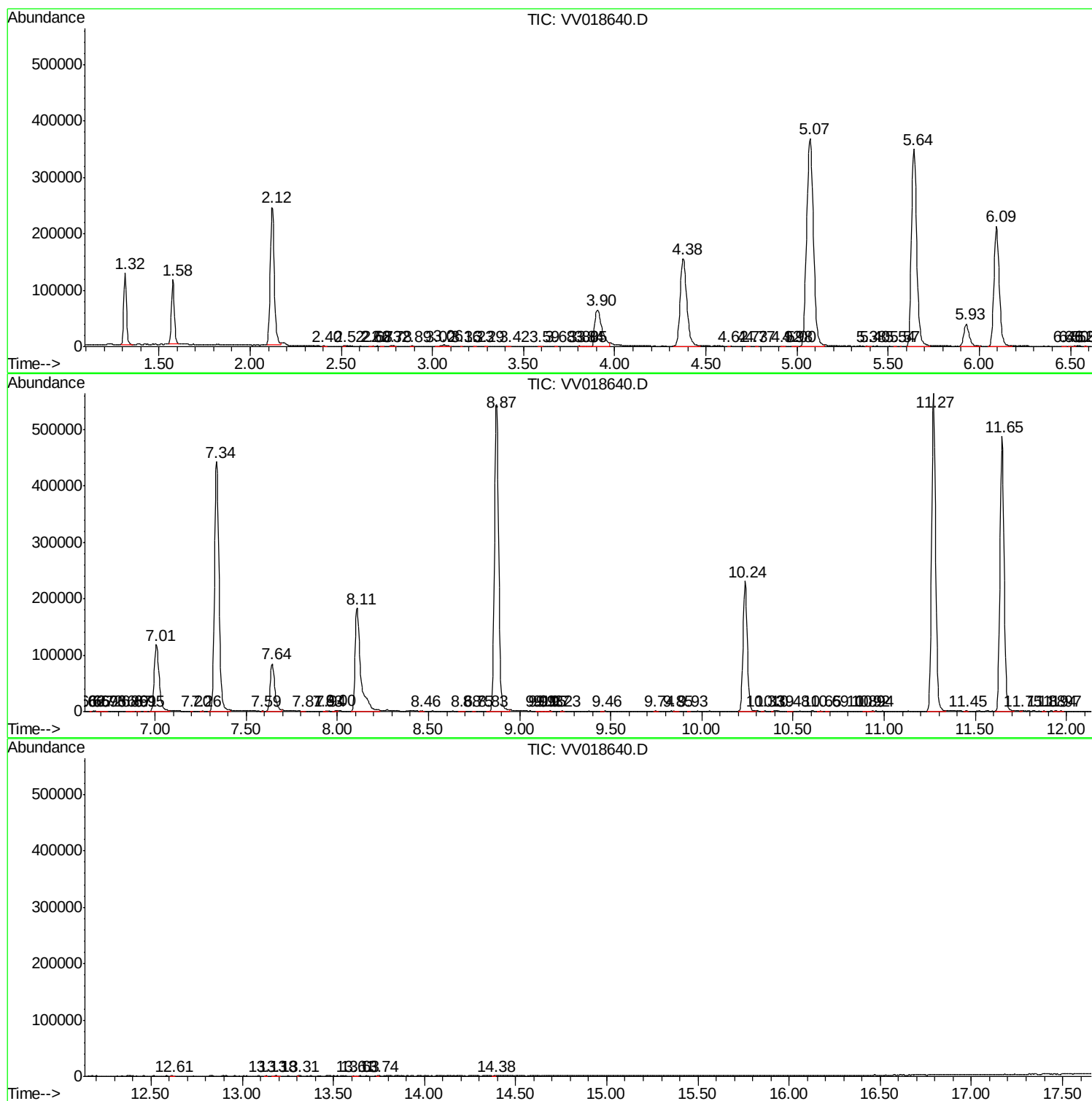
Sum of corrected areas: 7734948

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
Quant Title : VOC Analysis

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



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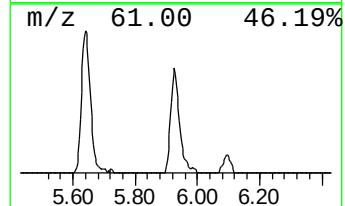
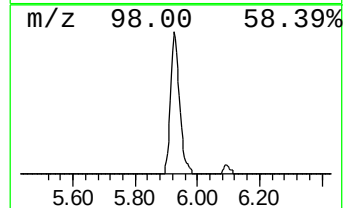
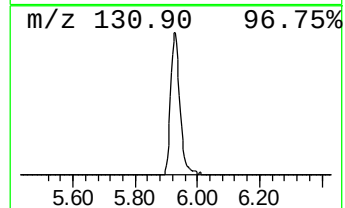
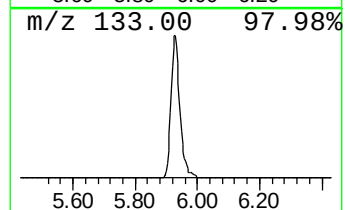
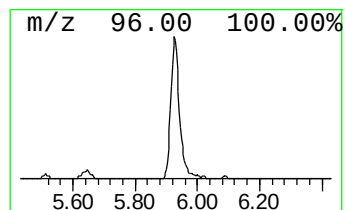
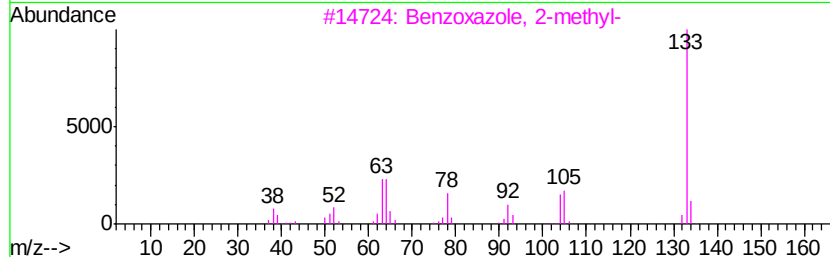
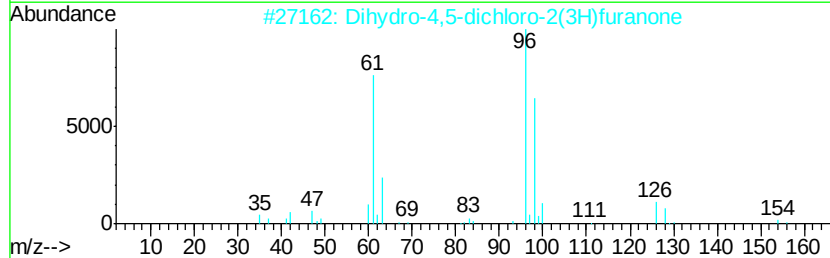
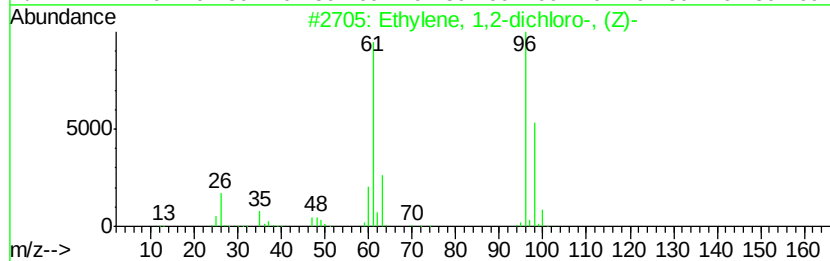
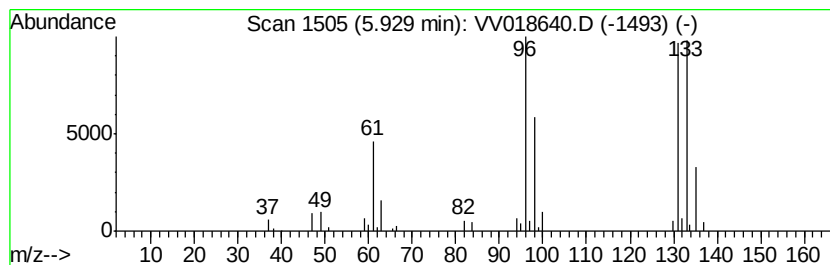
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Quant Title : VOC Analysis

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 | 5.67 ug/L | 79167 | 1,4-Difluorobenzene | 5.64 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#        | Qual |
|------|----|------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Ethylene, 1,2-dichloro-, (Z)-      | 96  | C2H2Cl2   | 000156-59-2 | 35   |
| 2    |    | Dihydro-4,5-dichloro-2(3H)furanone | 154 | C4H4Cl2O2 | 114434-99-0 | 25   |
| 3    |    | Benzoxazole, 2-methyl-             | 133 | C8H7NO    | 000095-21-6 | 9    |
| 4    |    | 1H-Imidazole, 1,5-dimethyl-        | 96  | C5H8N2    | 010447-93-5 | 9    |
| 5    |    | 4(1H)-Pyrimidinone                 | 96  | C4H4N2O   | 004562-27-0 | 9    |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| unknown-01       | 5.93 | 5.7     | ug/L  | 79167    | 1                     | 5.64 | 698625 | 50.0 |