

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
 Data File : VW009836.D  
 Acq On : 09 Apr 2019 12:50  
 Operator : SY/VA  
 Sample : K2255-01RE  
 Misc : 6.15G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFC34RE

## 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\_W\METHOD\SOM2WLM040319S.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      | 1.959    | 6          | 9        | 16        | rVB5  | 7001        | 11874      | 0.70%        | 0.102%     |
| 2      | 2.160    | 37         | 42       | 49        | rBV   | 17691       | 39572      | 2.33%        | 0.339%     |
| 3      | 2.355    | 68         | 74       | 86        | rVB   | 94007       | 195880     | 11.53%       | 1.677%     |
| 4      | 2.891    | 155        | 162      | 173       | rBV   | 74772       | 197214     | 11.61%       | 1.689%     |
| 5      | 3.245    | 218        | 220      | 223       | rBV4  | 3405        | 2412       | 0.14%        | 0.021%     |
| 6      | 3.739    | 299        | 301      | 308       | rVB7  | 972         | 1926       | 0.11%        | 0.016%     |
| 7      | 4.007    | 334        | 345      | 358       | rBV   | 168796      | 592001     | 34.84%       | 5.070%     |
| 8      | 4.111    | 358        | 362      | 373       | rVV   | 30024       | 86187      | 5.07%        | 0.738%     |
| 9      | 4.190    | 373        | 375      | 377       | rVV3  | 1548        | 1399       | 0.08%        | 0.012%     |
| 10     | 4.233    | 380        | 382      | 387       | rVB4  | 1730        | 2696       | 0.16%        | 0.023%     |
| 11     | 4.281    | 387        | 390      | 392       | rBV4  | 1317        | 1643       | 0.10%        | 0.014%     |
| 12     | 4.391    | 394        | 408      | 417       | rBV3  | 7467        | 29816      | 1.75%        | 0.255%     |
| 13     | 4.653    | 449        | 451      | 454       | rBV3  | 1040        | 1490       | 0.09%        | 0.013%     |
| 14     | 4.696    | 456        | 458      | 462       | rVV3  | 972         | 1172       | 0.07%        | 0.010%     |
| 15     | 4.903    | 482        | 492      | 512       | rVV3  | 29886       | 127518     | 7.50%        | 1.092%     |
| 16     | 5.117    | 523        | 527      | 529       | rBV2  | 979         | 1121       | 0.07%        | 0.010%     |
| 17     | 5.165    | 534        | 535      | 538       | rVV3  | 1011        | 1237       | 0.07%        | 0.011%     |
| 18     | 5.324    | 557        | 561      | 565       | rBV5  | 670         | 1210       | 0.07%        | 0.010%     |
| 19     | 5.415    | 573        | 576      | 580       | rBV5  | 1296        | 1487       | 0.09%        | 0.013%     |
| 20     | 5.519    | 591        | 593      | 596       | rBV3  | 1195        | 1193       | 0.07%        | 0.010%     |
| 21     | 5.610    | 605        | 608      | 611       | rBV3  | 1193        | 1195       | 0.07%        | 0.010%     |
| 22     | 5.738    | 625        | 629      | 630       | rBV2  | 916         | 1158       | 0.07%        | 0.010%     |
| 23     | 5.757    | 630        | 632      | 633       | rVV2  | 1625        | 1482       | 0.09%        | 0.013%     |
| 24     | 5.775    | 633        | 635      | 638       | rVV3  | 2536        | 3004       | 0.18%        | 0.026%     |
| 25     | 5.799    | 638        | 639      | 642       | rVV3  | 1812        | 1790       | 0.11%        | 0.015%     |
| 26     | 5.927    | 652        | 660      | 669       | rVV4  | 9611        | 32004      | 1.88%        | 0.274%     |
| 27     | 6.110    | 686        | 690      | 692       | rVV3  | 1098        | 1455       | 0.09%        | 0.012%     |
| 28     | 6.129    | 692        | 693      | 697       | rVB4  | 1179        | 1356       | 0.08%        | 0.012%     |
| 29     | 6.793    | 800        | 802      | 807       | rVB3  | 908         | 1287       | 0.08%        | 0.011%     |
| 30     | 7.074    | 838        | 848      | 857       | rBV2  | 51032       | 150024     | 8.83%        | 1.285%     |
| 31     | 7.171    | 860        | 864      | 875       | rVB2  | 9320        | 23160      | 1.36%        | 0.198%     |
| 32     | 7.500    | 916        | 918      | 919       | rBV2  | 1394        | 1211       | 0.07%        | 0.010%     |
| 33     | 7.647    | 929        | 942      | 955       | rBV   | 314765      | 783179     | 46.09%       | 6.707%     |
| 34     | 7.799    | 965        | 967      | 974       | rBV4  | 839         | 1482       | 0.09%        | 0.013%     |

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 BFC34RE

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 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\_W\METHOD\SOM2WLM040319S.M  
 Title : VOC Analysis

|    |        |      |      |      |       |        |         |         |         |
|----|--------|------|------|------|-------|--------|---------|---------|---------|
| 35 | 7.945  | 990  | 991  | 996  | rVB2  | 1547   | 1907    | 0.11%   | 0.016%  |
| 36 | 8.171  | 1025 | 1028 | 1029 | rBV2  | 1004   | 1172    | 0.07%   | 0.010%  |
| 37 | 8.268  | 1031 | 1044 | 1061 | rBV2  | 553525 | 1699308 | 100.00% | 14.553% |
| 38 | 8.573  | 1091 | 1094 | 1097 | rVB3  | 1449   | 1753    | 0.10%   | 0.015%  |
| 39 | 8.695  | 1110 | 1114 | 1121 | rVB8  | 1888   | 4322    | 0.25%   | 0.037%  |
| 40 | 8.842  | 1128 | 1138 | 1146 | rBV   | 525562 | 1044908 | 61.49%  | 8.948%  |
| 41 | 8.994  | 1161 | 1163 | 1166 | rVB3  | 1462   | 1251    | 0.07%   | 0.011%  |
| 42 | 9.031  | 1166 | 1169 | 1170 | rBV3  | 1217   | 1183    | 0.07%   | 0.010%  |
| 43 | 9.073  | 1170 | 1176 | 1185 | rVB10 | 4616   | 10930   | 0.64%   | 0.094%  |
| 44 | 9.146  | 1185 | 1188 | 1189 | rBV2  | 851    | 1072    | 0.06%   | 0.009%  |
| 45 | 9.274  | 1198 | 1209 | 1219 | rBV   | 394950 | 829959  | 48.84%  | 7.108%  |
| 46 | 9.646  | 1267 | 1270 | 1271 | rBV3  | 1540   | 1868    | 0.11%   | 0.016%  |
| 47 | 9.890  | 1304 | 1310 | 1313 | rBV5  | 3787   | 7131    | 0.42%   | 0.061%  |
| 48 | 10.030 | 1323 | 1333 | 1342 | rVV   | 190869 | 344240  | 20.26%  | 2.948%  |
| 49 | 10.128 | 1343 | 1349 | 1357 | rVB   | 31855  | 59241   | 3.49%   | 0.507%  |
| 50 | 10.213 | 1357 | 1363 | 1364 | rBV6  | 3005   | 4469    | 0.26%   | 0.038%  |
| 51 | 10.323 | 1373 | 1381 | 1387 | rBV   | 719480 | 1251646 | 73.66%  | 10.719% |
| 52 | 10.384 | 1387 | 1391 | 1397 | rVB   | 42257  | 71052   | 4.18%   | 0.608%  |
| 53 | 10.500 | 1404 | 1410 | 1415 | rBV8  | 2426   | 5026    | 0.30%   | 0.043%  |
| 54 | 10.573 | 1416 | 1422 | 1433 | rVV   | 123212 | 219112  | 12.89%  | 1.876%  |
| 55 | 10.689 | 1439 | 1441 | 1443 | rBV3  | 2516   | 2937    | 0.17%   | 0.025%  |
| 56 | 10.780 | 1451 | 1456 | 1457 | rBV5  | 8700   | 11488   | 0.68%   | 0.098%  |
| 57 | 10.927 | 1474 | 1480 | 1494 | rVB   | 200298 | 358746  | 21.11%  | 3.072%  |
| 58 | 11.628 | 1589 | 1595 | 1604 | rVB   | 657894 | 1124702 | 66.19%  | 9.632%  |
| 59 | 11.725 | 1610 | 1611 | 1617 | rVB6  | 4597   | 5146    | 0.30%   | 0.044%  |
| 60 | 12.170 | 1679 | 1684 | 1690 | rVB7  | 6409   | 12137   | 0.71%   | 0.104%  |
| 61 | 12.262 | 1698 | 1699 | 1704 | rVB4  | 1370   | 1227    | 0.07%   | 0.011%  |
| 62 | 12.329 | 1706 | 1710 | 1711 | rBV3  | 1922   | 2244    | 0.13%   | 0.019%  |
| 63 | 12.469 | 1728 | 1733 | 1737 | rBV6  | 2126   | 3885    | 0.23%   | 0.033%  |
| 64 | 12.548 | 1744 | 1746 | 1747 | rVV2  | 1804   | 1504    | 0.09%   | 0.013%  |
| 65 | 12.609 | 1751 | 1756 | 1763 | rVV3  | 15306  | 25895   | 1.52%   | 0.222%  |
| 66 | 12.695 | 1763 | 1770 | 1777 | rVV   | 288525 | 476990  | 28.07%  | 4.085%  |
| 67 | 12.768 | 1777 | 1782 | 1791 | rVB10 | 3116   | 7361    | 0.43%   | 0.063%  |
| 68 | 12.890 | 1800 | 1802 | 1804 | rVV3  | 2049   | 1961    | 0.12%   | 0.017%  |
| 69 | 12.908 | 1804 | 1805 | 1807 | rVV2  | 2186   | 2181    | 0.13%   | 0.019%  |
| 70 | 12.932 | 1807 | 1809 | 1815 | rVB5  | 3751   | 5206    | 0.31%   | 0.045%  |
| 71 | 13.024 | 1822 | 1824 | 1828 | rBV5  | 1431   | 2477    | 0.15%   | 0.021%  |

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## Integration Parameters: LSCINT.P

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 Sampling : 1  
 Start Thrs: 0.2  
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Filtering: 5  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.146 | 1842 | 1844 | 1847 | rBV4 | 1481   | 1648   | 0.10%  | 0.014% |
| 73  | 13.207 | 1847 | 1854 | 1859 | rBV6 | 6784   | 12400  | 0.73%  | 0.106% |
| 74  | 13.298 | 1866 | 1869 | 1876 | rVB7 | 1982   | 3588   | 0.21%  | 0.031% |
| 75  | 13.408 | 1883 | 1887 | 1891 | rVB5 | 4705   | 7806   | 0.46%  | 0.067% |
| 76  | 13.463 | 1893 | 1896 | 1897 | rBV2 | 1497   | 1668   | 0.10%  | 0.014% |
| 77  | 13.511 | 1899 | 1904 | 1906 | rVV4 | 3646   | 6186   | 0.36%  | 0.053% |
| 78  | 13.560 | 1906 | 1912 | 1924 | rVB  | 434434 | 687843 | 40.48% | 5.891% |
| 79  | 13.767 | 1943 | 1946 | 1949 | rVB5 | 2050   | 2428   | 0.14%  | 0.021% |
| 80  | 13.853 | 1952 | 1960 | 1967 | rBV  | 409628 | 670098 | 39.43% | 5.739% |
| 81  | 14.078 | 1992 | 1997 | 2002 | rVV  | 22042  | 35010  | 2.06%  | 0.300% |
| 82  | 14.188 | 2014 | 2015 | 2022 | rVB6 | 1815   | 2204   | 0.13%  | 0.019% |
| 83  | 14.286 | 2027 | 2031 | 2033 | rVB4 | 1114   | 1233   | 0.07%  | 0.011% |
| 84  | 14.328 | 2033 | 2038 | 2043 | rBV5 | 7479   | 13649  | 0.80%  | 0.117% |
| 85  | 14.389 | 2046 | 2048 | 2051 | rVB4 | 1205   | 1540   | 0.09%  | 0.013% |
| 86  | 14.426 | 2051 | 2054 | 2055 | rBV3 | 1091   | 1318   | 0.08%  | 0.011% |
| 87  | 14.706 | 2096 | 2100 | 2105 | rVB4 | 2192   | 4433   | 0.26%  | 0.038% |
| 88  | 15.060 | 2155 | 2158 | 2160 | rBV5 | 706    | 1125   | 0.07%  | 0.010% |
| 89  | 15.103 | 2163 | 2165 | 2169 | rBV4 | 1590   | 1599   | 0.09%  | 0.014% |
| 90  | 15.188 | 2176 | 2179 | 2180 | rVB2 | 1772   | 1394   | 0.08%  | 0.012% |
| 91  | 15.371 | 2204 | 2209 | 2213 | rBV4 | 6316   | 11054  | 0.65%  | 0.095% |
| 92  | 15.444 | 2213 | 2221 | 2225 | rVV4 | 18177  | 37797  | 2.22%  | 0.324% |
| 93  | 15.505 | 2225 | 2231 | 2242 | rVV  | 125672 | 230819 | 13.58% | 1.977% |
| 94  | 15.602 | 2245 | 2247 | 2256 | rVB9 | 2348   | 4541   | 0.27%  | 0.039% |
| 95  | 15.694 | 2260 | 2262 | 2267 | rVB5 | 1870   | 2621   | 0.15%  | 0.022% |
| 96  | 15.810 | 2275 | 2281 | 2286 | rBV9 | 8397   | 16639  | 0.98%  | 0.142% |
| 97  | 16.273 | 2354 | 2357 | 2358 | rBV3 | 974    | 1107   | 0.07%  | 0.009% |
| 98  | 16.493 | 2390 | 2393 | 2395 | rBV4 | 1293   | 2030   | 0.12%  | 0.017% |
| 99  | 16.669 | 2419 | 2422 | 2425 | rBV4 | 1191   | 1531   | 0.09%  | 0.013% |
| 100 | 16.694 | 2425 | 2426 | 2429 | rBV3 | 1156   | 1205   | 0.07%  | 0.010% |

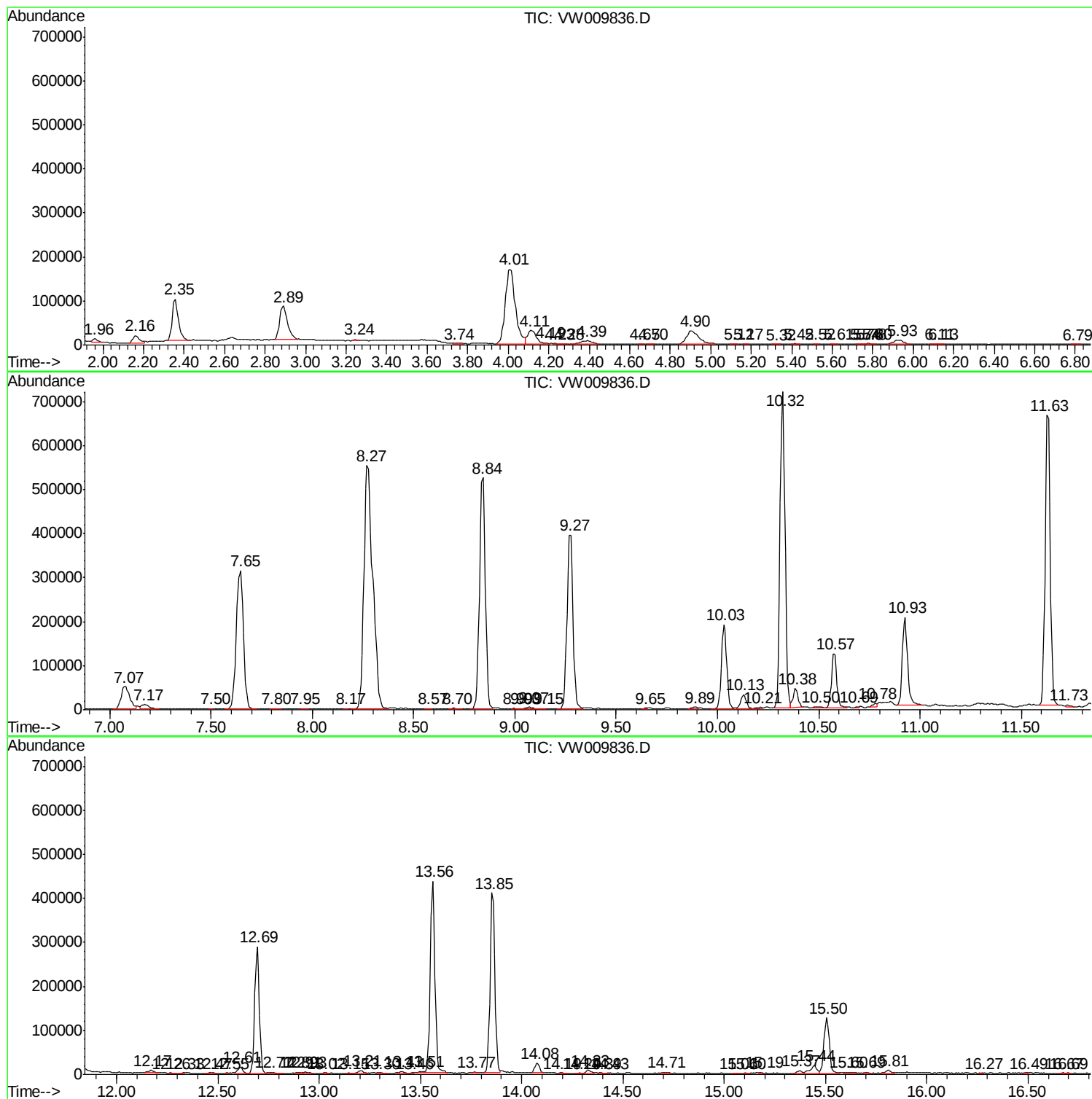
Sum of corrected areas: 11676986

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.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\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

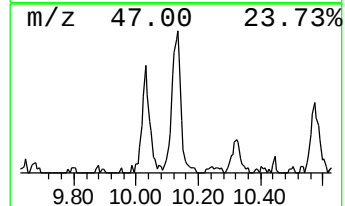
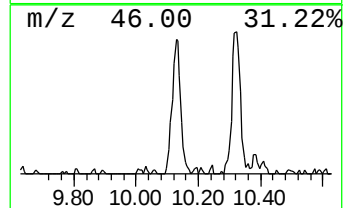
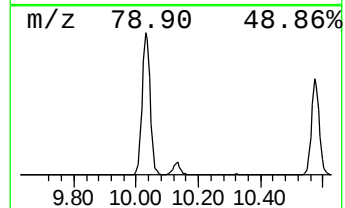
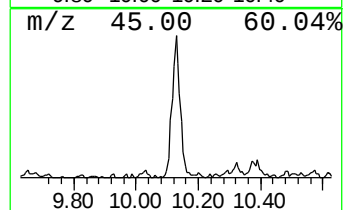
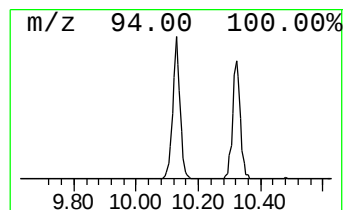
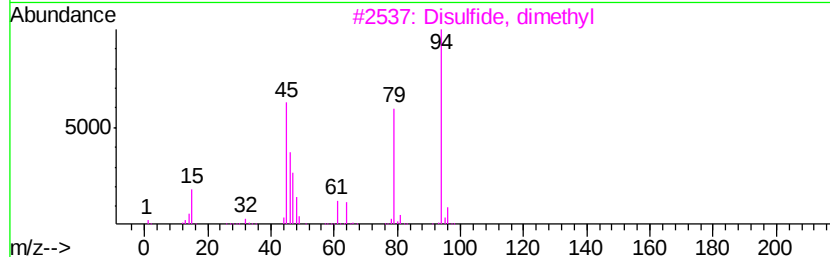
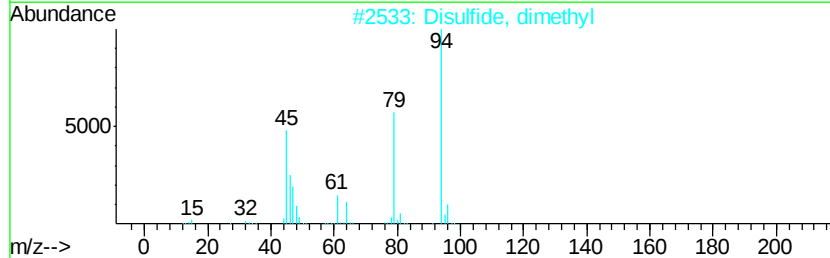
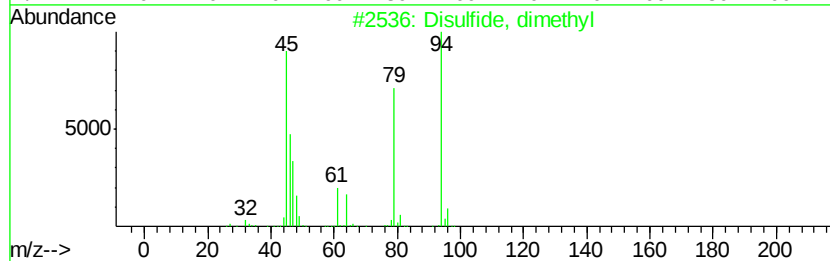
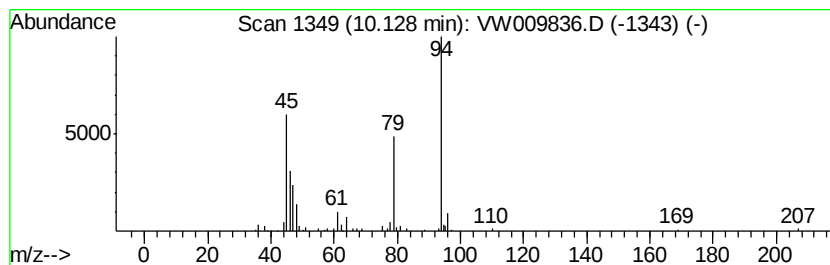
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Disulfide, dimethyl Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T. |
|-------|-----------|-------|---------------------|------|
| 10.13 | 1.42 ug/L | 59241 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID        | MW | MolForm | CAS#        | Qual |
|------|----|---------------------|----|---------|-------------|------|
| 1    | 5  | Disulfide, dimethyl | 94 | C2H6S2  | 000624-92-0 | 95   |
| 2    |    | Disulfide, dimethyl | 94 | C2H6S2  | 000624-92-0 | 95   |
| 3    |    | Disulfide, dimethyl | 94 | C2H6S2  | 000624-92-0 | 90   |
| 4    |    | Disulfide, dimethyl | 94 | C2H6S2  | 000624-92-0 | 72   |
| 5    |    | Disulfide, dimethyl | 94 | C2H6S2  | 000624-92-0 | 59   |



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Quant Title : VOC Analysis

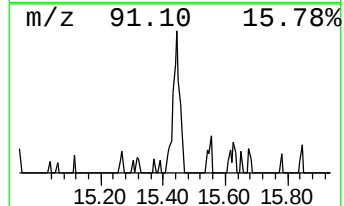
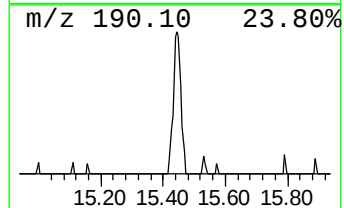
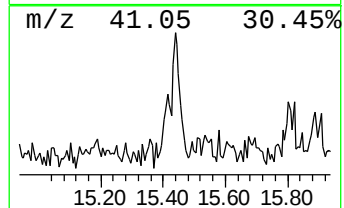
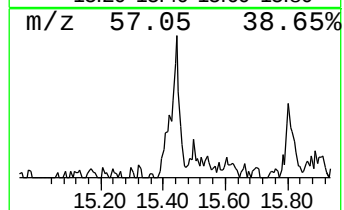
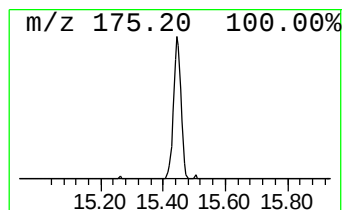
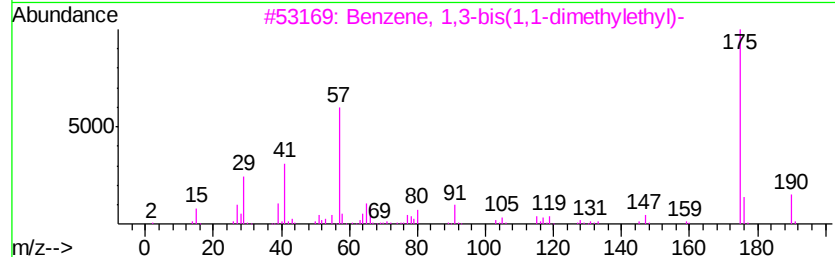
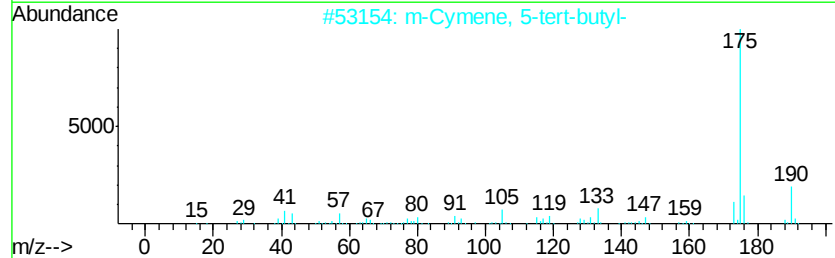
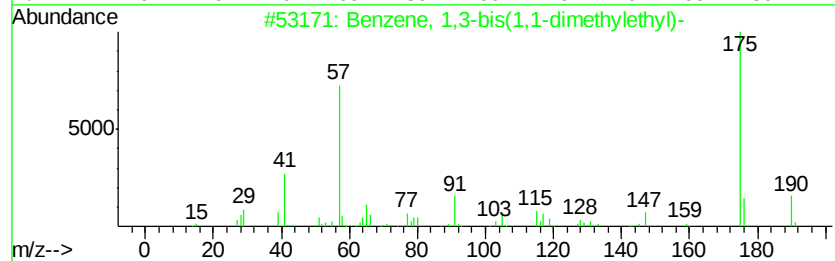
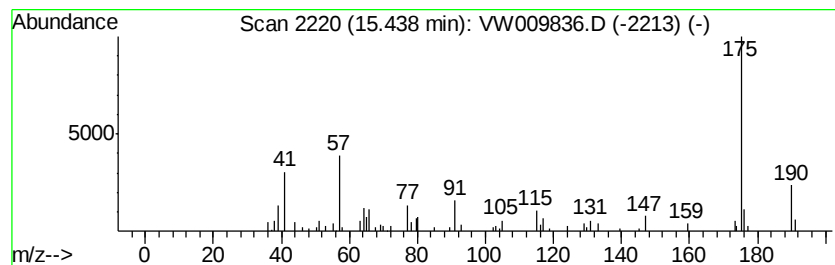
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.44 | 1.37 ug/L | 37797 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001014-60-4 | 83   |
| 2    |    | m-Cymene, 5-tert-butyl-              | 190 | C14H22  | 029577-19-3 | 72   |
| 3    |    | Benzene, 1,3-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001014-60-4 | 64   |
| 4    |    | Benzene, 1,3-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001014-60-4 | 59   |
| 5    |    | Benzene, 1,4-dimethyl-2,5-bis(1-...  | 190 | C14H22  | 010375-96-9 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW040819\  
Data File : VW009836.D  
Acq On : 09 Apr 2019 12:50  
Operator : SY/VA  
Sample : K2255-01RE  
Misc : 6.15G/10ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC34RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Disulfide, dimethyl  | 10.13 | 1.4     | ug/L  | 59241    | 1                     | 8.84  | 1044910 | 25.0 |
| Benzene, 1,3-bis(... | 15.44 | 1.4     | ug/L  | 37797    | 3                     | 13.56 | 687843  | 25.0 |