

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121619\  
 Data File : VW014368.D  
 Acq On : 16 Dec 2019 14:56  
 Operator : SY/VA  
 Sample : K6322-08RE  
 Misc : 4.23G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0C46RE

## 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\SOM2WLM120519S.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         | 1.965       | 6             | 10          | 16           | rVB3     | 8962           | 13646         | 0.39%           | 0.061%        |
| 2         | 2.154       | 37            | 41          | 45           | rBV      | 11823          | 19777         | 0.56%           | 0.088%        |
| 3         | 2.349       | 67            | 73          | 87           | rBV      | 259576         | 486536        | 13.83%          | 2.161%        |
| 4         | 2.885       | 155           | 161         | 173          | rVB      | 183898         | 453070        | 12.88%          | 2.012%        |
| 5         | 3.477       | 256           | 258         | 260          | rVV2     | 1365           | 1003          | 0.03%           | 0.004%        |
| 6         | 3.678       | 289           | 291         | 295          | rVB4     | 1217           | 1264          | 0.04%           | 0.006%        |
| 7         | 3.800       | 309           | 311         | 315          | rBV2     | 861            | 808           | 0.02%           | 0.004%        |
| 8         | 4.019       | 336           | 347         | 364          | rBV      | 366706         | 1211063       | 34.43%          | 5.379%        |
| 9         | 4.288       | 389           | 391         | 394          | rBV3     | 859            | 1281          | 0.04%           | 0.006%        |
| 10        | 4.385       | 403           | 407         | 410          | rBV2     | 2356           | 3699          | 0.11%           | 0.016%        |
| 11        | 4.611       | 442           | 444         | 449          | rVB4     | 783            | 1177          | 0.03%           | 0.005%        |
| 12        | 4.751       | 463           | 467         | 469          | rBV4     | 833            | 994           | 0.03%           | 0.004%        |
| 13        | 4.916       | 482           | 494         | 509          | rBV3     | 27265          | 105130        | 2.99%           | 0.467%        |
| 14        | 5.019       | 509           | 511         | 515          | rVB3     | 1319           | 1338          | 0.04%           | 0.006%        |
| 15        | 5.123       | 525           | 528         | 530          | rBV4     | 1258           | 1206          | 0.03%           | 0.005%        |
| 16        | 5.403       | 570           | 574         | 576          | rBV2     | 1008           | 1474          | 0.04%           | 0.007%        |
| 17        | 5.873       | 647           | 651         | 653          | rBV4     | 836            | 1005          | 0.03%           | 0.004%        |
| 18        | 5.934       | 653           | 661         | 673          | rVV6     | 9022           | 28327         | 0.81%           | 0.126%        |
| 19        | 6.263       | 710           | 715         | 717          | rVB4     | 622            | 994           | 0.03%           | 0.004%        |
| 20        | 6.464       | 744           | 748         | 750          | rBV4     | 719            | 1239          | 0.04%           | 0.006%        |
| 21        | 6.501       | 752           | 754         | 758          | rBV2     | 970            | 1037          | 0.03%           | 0.005%        |
| 22        | 6.781       | 798           | 800         | 804          | rBV2     | 697            | 911           | 0.03%           | 0.004%        |
| 23        | 6.848       | 806           | 811         | 814          | rBV3     | 754            | 1537          | 0.04%           | 0.007%        |
| 24        | 6.903       | 817           | 820         | 823          | rBV2     | 1176           | 1078          | 0.03%           | 0.005%        |
| 25        | 6.970       | 828           | 831         | 834          | rVB3     | 1046           | 1101          | 0.03%           | 0.005%        |
| 26        | 7.074       | 839           | 848         | 853          | rBV      | 89982          | 248510        | 7.07%           | 1.104%        |
| 27        | 7.647       | 930           | 942         | 956          | rBV      | 599983         | 1484711       | 42.21%          | 6.594%        |
| 28        | 7.811       | 967           | 969         | 972          | rBV3     | 856            | 966           | 0.03%           | 0.004%        |
| 29        | 7.945       | 985           | 991         | 996          | rVB5     | 3664           | 7805          | 0.22%           | 0.035%        |
| 30        | 8.049       | 1006          | 1008        | 1011         | rBV2     | 1150           | 1682          | 0.05%           | 0.007%        |
| 31        | 8.275       | 1034          | 1045        | 1063         | rBV2     | 1206294        | 3517093       | 100.00%         | 15.621%       |
| 32        | 8.506       | 1082          | 1083        | 1086         | rVB2     | 1385           | 1110          | 0.03%           | 0.005%        |
| 33        | 8.537       | 1086          | 1088        | 1093         | rBV4     | 1246           | 1779          | 0.05%           | 0.008%        |
| 34        | 8.616       | 1097          | 1101        | 1102         | rBV2     | 902            | 1021          | 0.03%           | 0.005%        |

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## Integration Parameters: LSCINT.P

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 Stop Thrs : 0

Filtering: 5  
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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\SOM2WLM120519S.M  
 Title : VOC Analysis

|    |        |      |      |      |       |         |         |        |         |
|----|--------|------|------|------|-------|---------|---------|--------|---------|
| 35 | 8.689  | 1109 | 1113 | 1114 | rBV3  | 1435    | 1172    | 0.03%  | 0.005%  |
| 36 | 8.701  | 1114 | 1115 | 1117 | rVB2  | 1375    | 988     | 0.03%  | 0.004%  |
| 37 | 8.842  | 1127 | 1138 | 1153 | rBV   | 1130673 | 2234231 | 63.52% | 9.923%  |
| 38 | 8.982  | 1159 | 1161 | 1165 | rBV5  | 1540    | 1517    | 0.04%  | 0.007%  |
| 39 | 9.079  | 1168 | 1177 | 1184 | rVB10 | 5164    | 15004   | 0.43%  | 0.067%  |
| 40 | 9.134  | 1184 | 1186 | 1188 | rVB2  | 1316    | 1197    | 0.03%  | 0.005%  |
| 41 | 9.183  | 1188 | 1194 | 1195 | rBV4  | 1309    | 2131    | 0.06%  | 0.009%  |
| 42 | 9.274  | 1198 | 1209 | 1220 | rBV   | 822115  | 1701921 | 48.39% | 7.559%  |
| 43 | 9.555  | 1252 | 1255 | 1259 | rBV6  | 928     | 1773    | 0.05%  | 0.008%  |
| 44 | 9.659  | 1269 | 1272 | 1277 | rVB5  | 1990    | 3777    | 0.11%  | 0.017%  |
| 45 | 9.750  | 1285 | 1287 | 1290 | rBV2  | 782     | 1004    | 0.03%  | 0.004%  |
| 46 | 9.878  | 1306 | 1308 | 1310 | rVB3  | 1478    | 1186    | 0.03%  | 0.005%  |
| 47 | 10.030 | 1325 | 1333 | 1346 | rBV   | 353411  | 663096  | 18.85% | 2.945%  |
| 48 | 10.201 | 1359 | 1361 | 1369 | rVB4  | 3736    | 6068    | 0.17%  | 0.027%  |
| 49 | 10.323 | 1372 | 1381 | 1389 | rBV   | 1521474 | 2693751 | 76.59% | 11.964% |
| 50 | 10.488 | 1406 | 1408 | 1411 | rVB4  | 893     | 905     | 0.03%  | 0.004%  |
| 51 | 10.573 | 1415 | 1422 | 1436 | rBV   | 221127  | 395006  | 11.23% | 1.754%  |
| 52 | 10.701 | 1438 | 1443 | 1448 | rVB   | 18339   | 31327   | 0.89%  | 0.139%  |
| 53 | 10.841 | 1464 | 1466 | 1467 | rVV2  | 1187    | 842     | 0.02%  | 0.004%  |
| 54 | 10.860 | 1467 | 1469 | 1473 | rVB4  | 2941    | 2455    | 0.07%  | 0.011%  |
| 55 | 10.921 | 1473 | 1479 | 1493 | rBV   | 357586  | 658227  | 18.72% | 2.923%  |
| 56 | 11.061 | 1498 | 1502 | 1510 | rVB3  | 11130   | 23229   | 0.66%  | 0.103%  |
| 57 | 11.213 | 1525 | 1527 | 1530 | rBV4  | 1057    | 1339    | 0.04%  | 0.006%  |
| 58 | 11.378 | 1552 | 1554 | 1557 | rBV4  | 1318    | 1686    | 0.05%  | 0.007%  |
| 59 | 11.439 | 1557 | 1564 | 1568 | rVB2  | 10291   | 16324   | 0.46%  | 0.073%  |
| 60 | 11.536 | 1578 | 1580 | 1582 | rBV3  | 1117    | 996     | 0.03%  | 0.004%  |
| 61 | 11.567 | 1584 | 1585 | 1588 | rBV3  | 1196    | 984     | 0.03%  | 0.004%  |
| 62 | 11.628 | 1588 | 1595 | 1609 | rBV   | 1326222 | 2249862 | 63.97% | 9.993%  |
| 63 | 11.798 | 1622 | 1623 | 1625 | rBV   | 1060    | 871     | 0.02%  | 0.004%  |
| 64 | 11.841 | 1625 | 1630 | 1636 | rVV7  | 3562    | 8498    | 0.24%  | 0.038%  |
| 65 | 12.109 | 1672 | 1674 | 1675 | rBV2  | 1173    | 1116    | 0.03%  | 0.005%  |
| 66 | 12.134 | 1675 | 1678 | 1679 | rBV3  | 2686    | 2321    | 0.07%  | 0.010%  |
| 67 | 12.164 | 1679 | 1683 | 1684 | rBV4  | 4477    | 4945    | 0.14%  | 0.022%  |
| 68 | 12.250 | 1693 | 1697 | 1701 | rBV6  | 2877    | 5063    | 0.14%  | 0.022%  |
| 69 | 12.323 | 1707 | 1709 | 1710 | rBV2  | 1257    | 1033    | 0.03%  | 0.005%  |
| 70 | 12.469 | 1729 | 1733 | 1737 | rBV6  | 2235    | 4132    | 0.12%  | 0.018%  |
| 71 | 12.512 | 1737 | 1740 | 1742 | rBV3  | 1243    | 1480    | 0.04%  | 0.007%  |

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 ClientSampleId :  
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## 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\SOM2WLM120519S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 12.609 | 1750 | 1756 | 1762 | rBV  | 47690  | 79543   | 2.26%  | 0.353% |
| 73  | 12.689 | 1762 | 1769 | 1779 | rBV  | 560882 | 921501  | 26.20% | 4.093% |
| 74  | 12.774 | 1779 | 1783 | 1790 | rVB8 | 5009   | 10776   | 0.31%  | 0.048% |
| 75  | 12.859 | 1794 | 1797 | 1802 | rBV7 | 2265   | 2888    | 0.08%  | 0.013% |
| 76  | 12.938 | 1802 | 1810 | 1816 | rBV4 | 13643  | 26021   | 0.74%  | 0.116% |
| 77  | 12.987 | 1816 | 1818 | 1823 | rVB6 | 3048   | 4388    | 0.12%  | 0.019% |
| 78  | 13.036 | 1823 | 1826 | 1829 | rBV5 | 1924   | 2883    | 0.08%  | 0.013% |
| 79  | 13.073 | 1829 | 1832 | 1836 | rVB4 | 1921   | 2879    | 0.08%  | 0.013% |
| 80  | 13.115 | 1836 | 1839 | 1841 | rBV3 | 1838   | 2198    | 0.06%  | 0.010% |
| 81  | 13.164 | 1844 | 1847 | 1850 | rVB3 | 3786   | 4155    | 0.12%  | 0.018% |
| 82  | 13.249 | 1856 | 1861 | 1864 | rBV5 | 4343   | 6885    | 0.20%  | 0.031% |
| 83  | 13.298 | 1864 | 1869 | 1874 | rVB6 | 6249   | 11012   | 0.31%  | 0.049% |
| 84  | 13.390 | 1882 | 1884 | 1885 | rVV2 | 1684   | 885     | 0.03%  | 0.004% |
| 85  | 13.414 | 1885 | 1888 | 1890 | rVV3 | 2653   | 3829    | 0.11%  | 0.017% |
| 86  | 13.469 | 1891 | 1897 | 1904 | rVV2 | 44158  | 79445   | 2.26%  | 0.353% |
| 87  | 13.554 | 1905 | 1911 | 1919 | rVB  | 858756 | 1413387 | 40.19% | 6.278% |
| 88  | 13.792 | 1949 | 1950 | 1953 | rBV3 | 2762   | 2734    | 0.08%  | 0.012% |
| 89  | 13.853 | 1953 | 1960 | 1974 | rVV  | 877742 | 1467722 | 41.73% | 6.519% |
| 90  | 14.066 | 1991 | 1995 | 2003 | rVB2 | 24602  | 43568   | 1.24%  | 0.194% |
| 91  | 14.328 | 2034 | 2038 | 2043 | rBV4 | 8198   | 13513   | 0.38%  | 0.060% |
| 92  | 14.426 | 2051 | 2054 | 2057 | rBV5 | 1583   | 2263    | 0.06%  | 0.010% |
| 93  | 14.725 | 2101 | 2103 | 2106 | rVB3 | 2534   | 2682    | 0.08%  | 0.012% |
| 94  | 15.103 | 2163 | 2165 | 2168 | rBV3 | 1550   | 2031    | 0.06%  | 0.009% |
| 95  | 15.438 | 2215 | 2220 | 2225 | rVB2 | 30211  | 52101   | 1.48%  | 0.231% |
| 96  | 15.682 | 2257 | 2260 | 2261 | rBV2 | 2326   | 2738    | 0.08%  | 0.012% |
| 97  | 16.011 | 2312 | 2314 | 2318 | rBV4 | 1745   | 2601    | 0.07%  | 0.012% |
| 98  | 16.468 | 2387 | 2389 | 2390 | rBV2 | 1787   | 1635    | 0.05%  | 0.007% |
| 99  | 16.700 | 2426 | 2427 | 2428 | rBV  | 2252   | 933     | 0.03%  | 0.004% |
| 100 | 16.773 | 2437 | 2439 | 2440 | rBV2 | 1509   | 1026    | 0.03%  | 0.005% |

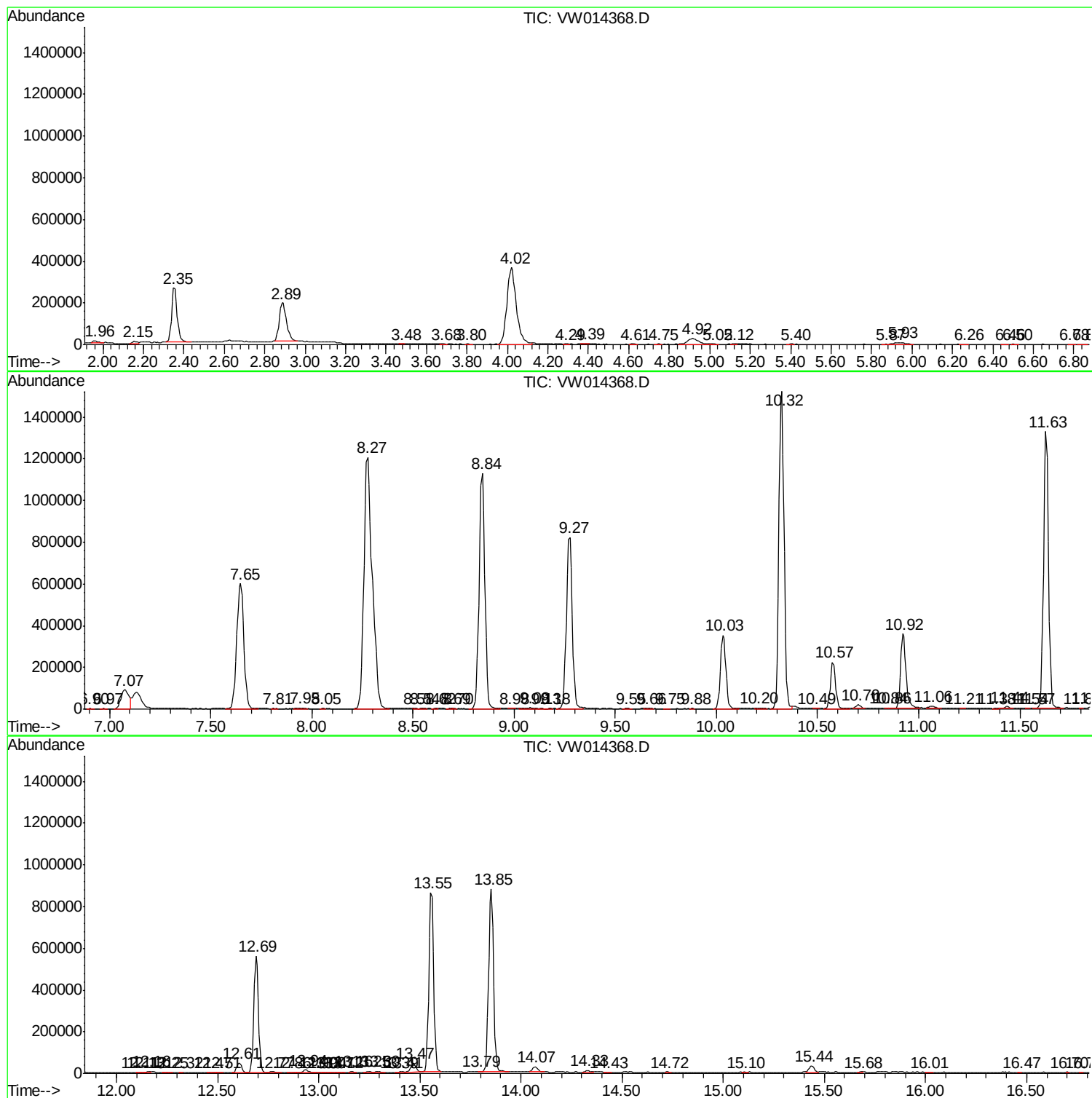
Sum of corrected areas: 22515051

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121619\  
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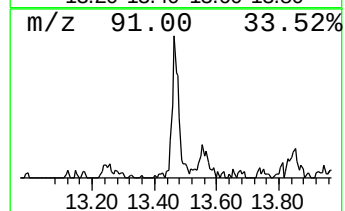
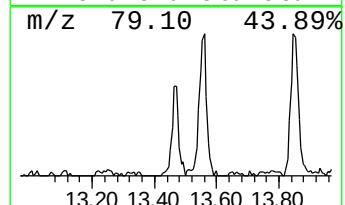
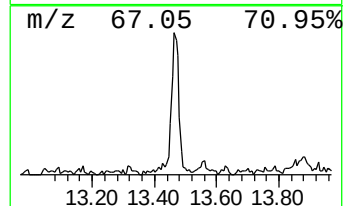
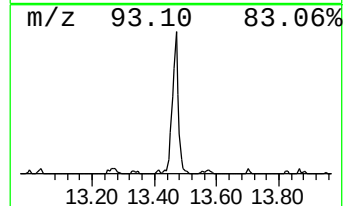
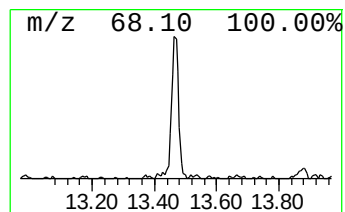
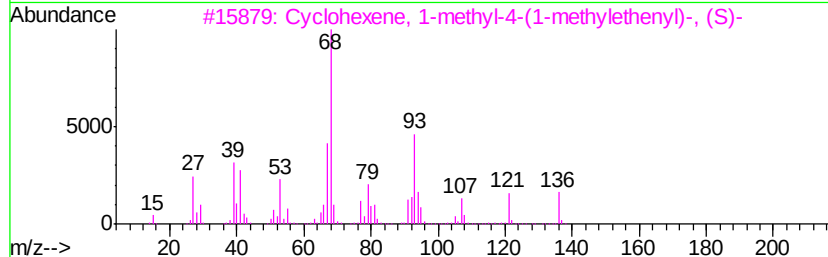
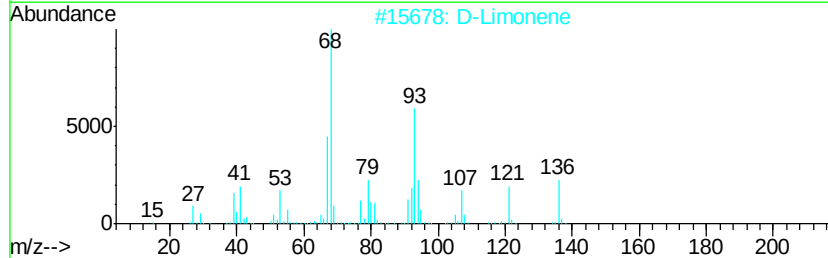
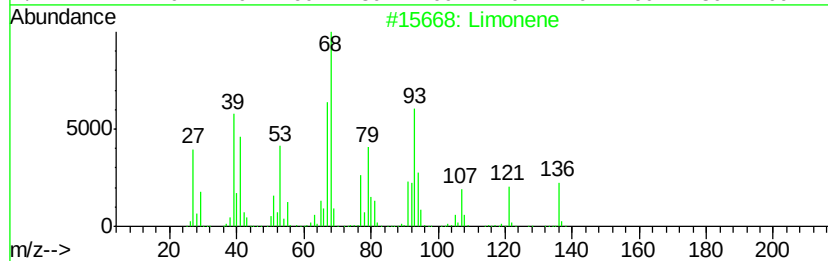
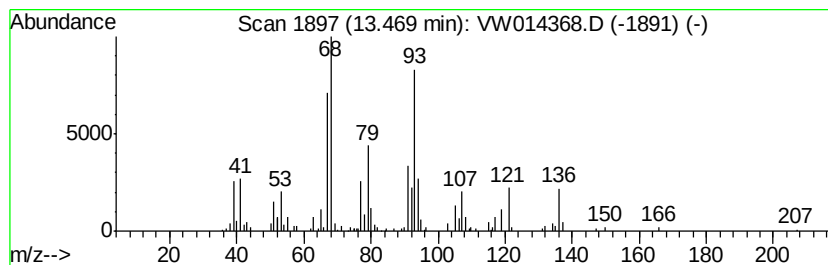
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Limonene Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.47 | 1.41 ug/L | 79445 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Limonene                             | 136 | C10H16  | 000138-86-3 | 94   |
| 2    |    | D-Limonene                           | 136 | C10H16  | 005989-27-5 | 90   |
| 3    |    | Cyclohexene, 1-methyl-4-(1-methyl... | 136 | C10H16  | 005989-54-8 | 90   |
| 4    |    | D-Limonene                           | 136 | C10H16  | 005989-27-5 | 81   |
| 5    |    | D-Limonene                           | 136 | C10H16  | 005989-27-5 | 64   |



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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |       |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|-------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc  |
| -----            | ----- | -----   | ----- | -----    | -----                 | ----- | -----   | ----- |
| Limonene         | 13.47 | 1.4     | ug/L  | 79445    | 3                     | 13.55 | 1413390 | 25.0  |