

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW072018\  
 Data File : VW004102.D  
 Acq On : 21 Jul 2018 04:23  
 Operator : SY/AP  
 Sample : J4038-20  
 Misc : 6.47G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB1N7

## 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\SOM2WLM071818S.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         | 1.813       | 28            | 37          | 57           | rVB      | 8877764        | 20118041      | 100.00%         | 87.683%       |
| 2         | 2.349       | 121           | 125         | 135          | rVB      | 31945          | 54992         | 0.27%           | 0.240%        |
| 3         | 2.892       | 207           | 214         | 227          | rVB2     | 17228          | 43297         | 0.22%           | 0.189%        |
| 4         | 4.007       | 388           | 397         | 409          | rBV2     | 54757          | 141038        | 0.70%           | 0.615%        |
| 5         | 4.123       | 409           | 416         | 422          | rBV2     | 4227           | 12378         | 0.06%           | 0.054%        |
| 6         | 4.343       | 449           | 452         | 453          | rBV2     | 283            | 268           | 0.00%           | 0.001%        |
| 7         | 4.367       | 453           | 456         | 457          | rBV2     | 549            | 573           | 0.00%           | 0.002%        |
| 8         | 4.678       | 502           | 507         | 514          | rBV5     | 972            | 2317          | 0.01%           | 0.010%        |
| 9         | 4.806       | 526           | 528         | 530          | rVB      | 319            | 265           | 0.00%           | 0.001%        |
| 10        | 4.830       | 530           | 532         | 535          | rBV3     | 224            | 257           | 0.00%           | 0.001%        |
| 11        | 4.910       | 535           | 545         | 547          | rBV6     | 2364           | 6180          | 0.03%           | 0.027%        |
| 12        | 5.086       | 571           | 574         | 576          | rVV2     | 370            | 346           | 0.00%           | 0.002%        |
| 13        | 5.166       | 585           | 587         | 588          | rBV2     | 342            | 250           | 0.00%           | 0.001%        |
| 14        | 5.605       | 656           | 659         | 660          | rBV2     | 232            | 256           | 0.00%           | 0.001%        |
| 15        | 5.775       | 685           | 687         | 688          | rVB2     | 389            | 261           | 0.00%           | 0.001%        |
| 16        | 5.861       | 698           | 701         | 703          | rBV2     | 315            | 371           | 0.00%           | 0.002%        |
| 17        | 5.934       | 707           | 713         | 726          | rVB5     | 2480           | 7732          | 0.04%           | 0.034%        |
| 18        | 6.336       | 776           | 779         | 780          | rBV      | 340            | 278           | 0.00%           | 0.001%        |
| 19        | 6.507       | 805           | 807         | 810          | rBV      | 253            | 225           | 0.00%           | 0.001%        |
| 20        | 6.580       | 816           | 819         | 820          | rBV      | 253            | 273           | 0.00%           | 0.001%        |
| 21        | 6.629       | 825           | 827         | 830          | rVB3     | 442            | 337           | 0.00%           | 0.001%        |
| 22        | 6.696       | 834           | 838         | 839          | rBV2     | 304            | 278           | 0.00%           | 0.001%        |
| 23        | 6.989       | 877           | 886         | 894          | rBV7     | 1514           | 4533          | 0.02%           | 0.020%        |
| 24        | 7.092       | 894           | 903         | 925          | rVV3     | 13784          | 51439         | 0.26%           | 0.224%        |
| 25        | 7.421       | 954           | 957         | 958          | rBV2     | 386            | 324           | 0.00%           | 0.001%        |
| 26        | 7.434       | 958           | 959         | 961          | rVV      | 525            | 421           | 0.00%           | 0.002%        |
| 27        | 7.653       | 985           | 995         | 1006         | rBV      | 73674          | 175670        | 0.87%           | 0.766%        |
| 28        | 7.781       | 1012          | 1016        | 1017         | rBV3     | 399            | 410           | 0.00%           | 0.002%        |
| 29        | 7.842       | 1022          | 1026        | 1028         | rBV3     | 207            | 287           | 0.00%           | 0.001%        |
| 30        | 7.940       | 1040          | 1042        | 1045         | rVB3     | 423            | 359           | 0.00%           | 0.002%        |
| 31        | 8.037       | 1052          | 1058        | 1060         | rBV      | 304            | 505           | 0.00%           | 0.002%        |
| 32        | 8.281       | 1087          | 1098        | 1115         | rBV2     | 127539         | 397058        | 1.97%           | 1.731%        |
| 33        | 8.403       | 1115          | 1118        | 1120         | rBV2     | 305            | 456           | 0.00%           | 0.002%        |
| 34        | 8.610       | 1150          | 1152        | 1155         | rVB      | 287            | 276           | 0.00%           | 0.001%        |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB1N7

## 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\SOM2WLM071818S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 35 | 8.848  | 1181 | 1191 | 1199 | rBV  | 145006 | 286488 | 1.42% | 1.249% |
| 36 | 8.958  | 1207 | 1209 | 1212 | rVB2 | 404    | 309    | 0.00% | 0.001% |
| 37 | 8.994  | 1212 | 1215 | 1217 | rVB2 | 253    | 262    | 0.00% | 0.001% |
| 38 | 9.013  | 1217 | 1218 | 1220 | rBV  | 311    | 308    | 0.00% | 0.001% |
| 39 | 9.049  | 1220 | 1224 | 1225 | rBV3 | 1042   | 1223   | 0.01% | 0.005% |
| 40 | 9.128  | 1234 | 1237 | 1240 | rBV3 | 309    | 465    | 0.00% | 0.002% |
| 41 | 9.281  | 1253 | 1262 | 1270 | rBV  | 98824  | 199281 | 0.99% | 0.869% |
| 42 | 9.439  | 1283 | 1288 | 1293 | rVB4 | 2541   | 4473   | 0.02% | 0.019% |
| 43 | 9.598  | 1310 | 1314 | 1315 | rBV2 | 252    | 303    | 0.00% | 0.001% |
| 44 | 9.671  | 1323 | 1326 | 1331 | rBV2 | 510    | 892    | 0.00% | 0.004% |
| 45 | 9.781  | 1342 | 1344 | 1348 | rVB2 | 363    | 387    | 0.00% | 0.002% |
| 46 | 9.817  | 1348 | 1350 | 1352 | rBV  | 266    | 257    | 0.00% | 0.001% |
| 47 | 9.958  | 1371 | 1373 | 1376 | rBV2 | 182    | 223    | 0.00% | 0.001% |
| 48 | 10.037 | 1379 | 1386 | 1394 | rBV  | 31461  | 58498  | 0.29% | 0.255% |
| 49 | 10.104 | 1394 | 1397 | 1398 | rBV2 | 612    | 725    | 0.00% | 0.003% |
| 50 | 10.134 | 1398 | 1402 | 1410 | rVB2 | 4631   | 8691   | 0.04% | 0.038% |
| 51 | 10.232 | 1414 | 1418 | 1420 | rBV2 | 225    | 338    | 0.00% | 0.001% |
| 52 | 10.329 | 1425 | 1434 | 1441 | rBV  | 149074 | 266161 | 1.32% | 1.160% |
| 53 | 10.470 | 1456 | 1457 | 1459 | rVV  | 326    | 243    | 0.00% | 0.001% |
| 54 | 10.506 | 1459 | 1463 | 1468 | rVV4 | 1618   | 2612   | 0.01% | 0.011% |
| 55 | 10.579 | 1470 | 1475 | 1483 | rVB  | 22749  | 40283  | 0.20% | 0.176% |
| 56 | 10.707 | 1492 | 1496 | 1502 | rVV2 | 3483   | 6098   | 0.03% | 0.027% |
| 57 | 10.762 | 1502 | 1505 | 1510 | rVV4 | 910    | 1301   | 0.01% | 0.006% |
| 58 | 10.933 | 1526 | 1533 | 1545 | rVV2 | 51439  | 98907  | 0.49% | 0.431% |
| 59 | 11.092 | 1556 | 1559 | 1567 | rVB6 | 1725   | 3470   | 0.02% | 0.015% |
| 60 | 11.183 | 1572 | 1574 | 1577 | rVB3 | 626    | 562    | 0.00% | 0.002% |
| 61 | 11.244 | 1580 | 1584 | 1587 | rVB2 | 232    | 277    | 0.00% | 0.001% |
| 62 | 11.268 | 1587 | 1588 | 1591 | rBV3 | 224    | 277    | 0.00% | 0.001% |
| 63 | 11.506 | 1626 | 1627 | 1630 | rVB  | 373    | 267    | 0.00% | 0.001% |
| 64 | 11.537 | 1630 | 1632 | 1635 | rBV  | 257    | 255    | 0.00% | 0.001% |
| 65 | 11.634 | 1640 | 1648 | 1656 | rBV  | 183859 | 315879 | 1.57% | 1.377% |
| 66 | 11.726 | 1662 | 1663 | 1668 | rVB2 | 510    | 721    | 0.00% | 0.003% |
| 67 | 11.847 | 1680 | 1683 | 1687 | rVV2 | 823    | 913    | 0.00% | 0.004% |
| 68 | 12.030 | 1711 | 1713 | 1716 | rBV2 | 195    | 272    | 0.00% | 0.001% |
| 69 | 12.164 | 1733 | 1735 | 1736 | rBV2 | 282    | 240    | 0.00% | 0.001% |
| 70 | 12.293 | 1754 | 1756 | 1759 | rBV  | 218    | 250    | 0.00% | 0.001% |
| 71 | 12.384 | 1766 | 1771 | 1772 | rBV2 | 253    | 348    | 0.00% | 0.002% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB1N7

## Integration Parameters: LSCINT.P

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 Sampling : 1  
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 Stop Thrs : 0

Filtering: 5  
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 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |       |        |
|-----|--------|------|------|------|------|--------|--------|-------|--------|
| 72  | 12.402 | 1772 | 1774 | 1778 | rVB3 | 308    | 368    | 0.00% | 0.002% |
| 73  | 12.469 | 1783 | 1785 | 1790 | rVB3 | 381    | 527    | 0.00% | 0.002% |
| 74  | 12.536 | 1792 | 1796 | 1798 | rBV3 | 462    | 712    | 0.00% | 0.003% |
| 75  | 12.567 | 1798 | 1801 | 1804 | rVB3 | 786    | 1012   | 0.01% | 0.004% |
| 76  | 12.616 | 1804 | 1809 | 1816 | rVB2 | 2316   | 3601   | 0.02% | 0.016% |
| 77  | 12.701 | 1816 | 1823 | 1830 | rBV  | 92220  | 152366 | 0.76% | 0.664% |
| 78  | 12.945 | 1857 | 1863 | 1864 | rBV3 | 654    | 1053   | 0.01% | 0.005% |
| 79  | 12.975 | 1864 | 1868 | 1874 | rVB  | 14511  | 23301  | 0.12% | 0.102% |
| 80  | 13.122 | 1890 | 1892 | 1895 | rVB  | 463    | 266    | 0.00% | 0.001% |
| 81  | 13.219 | 1903 | 1908 | 1917 | rVV4 | 5145   | 9957   | 0.05% | 0.043% |
| 82  | 13.298 | 1917 | 1921 | 1923 | rBV3 | 653    | 849    | 0.00% | 0.004% |
| 83  | 13.384 | 1928 | 1935 | 1938 | rBV3 | 1616   | 2718   | 0.01% | 0.012% |
| 84  | 13.481 | 1950 | 1951 | 1954 | rBV2 | 296    | 299    | 0.00% | 0.001% |
| 85  | 13.567 | 1958 | 1965 | 1972 | rBV  | 130398 | 209402 | 1.04% | 0.913% |
| 86  | 13.658 | 1975 | 1980 | 1986 | rVB3 | 1708   | 2585   | 0.01% | 0.011% |
| 87  | 13.859 | 2007 | 2013 | 2020 | rVV  | 107785 | 178918 | 0.89% | 0.780% |
| 88  | 13.957 | 2027 | 2029 | 2032 | rBV2 | 279    | 264    | 0.00% | 0.001% |
| 89  | 14.000 | 2033 | 2036 | 2037 | rBV3 | 514    | 571    | 0.00% | 0.002% |
| 90  | 14.085 | 2046 | 2050 | 2055 | rVB2 | 1849   | 2513   | 0.01% | 0.011% |
| 91  | 14.170 | 2063 | 2064 | 2067 | rBV2 | 256    | 232    | 0.00% | 0.001% |
| 92  | 14.225 | 2070 | 2073 | 2074 | rBV2 | 413    | 429    | 0.00% | 0.002% |
| 93  | 14.536 | 2120 | 2124 | 2129 | rVB4 | 1577   | 2514   | 0.01% | 0.011% |
| 94  | 14.627 | 2135 | 2139 | 2140 | rVB3 | 369    | 316    | 0.00% | 0.001% |
| 95  | 14.664 | 2140 | 2145 | 2152 | rBV3 | 6276   | 9884   | 0.05% | 0.043% |
| 96  | 14.804 | 2163 | 2168 | 2173 | rBV2 | 9108   | 13735  | 0.07% | 0.060% |
| 97  | 15.207 | 2232 | 2234 | 2235 | rBV  | 547    | 289    | 0.00% | 0.001% |
| 98  | 15.359 | 2257 | 2259 | 2260 | rBV2 | 371    | 237    | 0.00% | 0.001% |
| 99  | 15.414 | 2266 | 2268 | 2269 | rBV2 | 375    | 258    | 0.00% | 0.001% |
| 100 | 16.292 | 2410 | 2412 | 2416 | rVB3 | 596    | 408    | 0.00% | 0.002% |

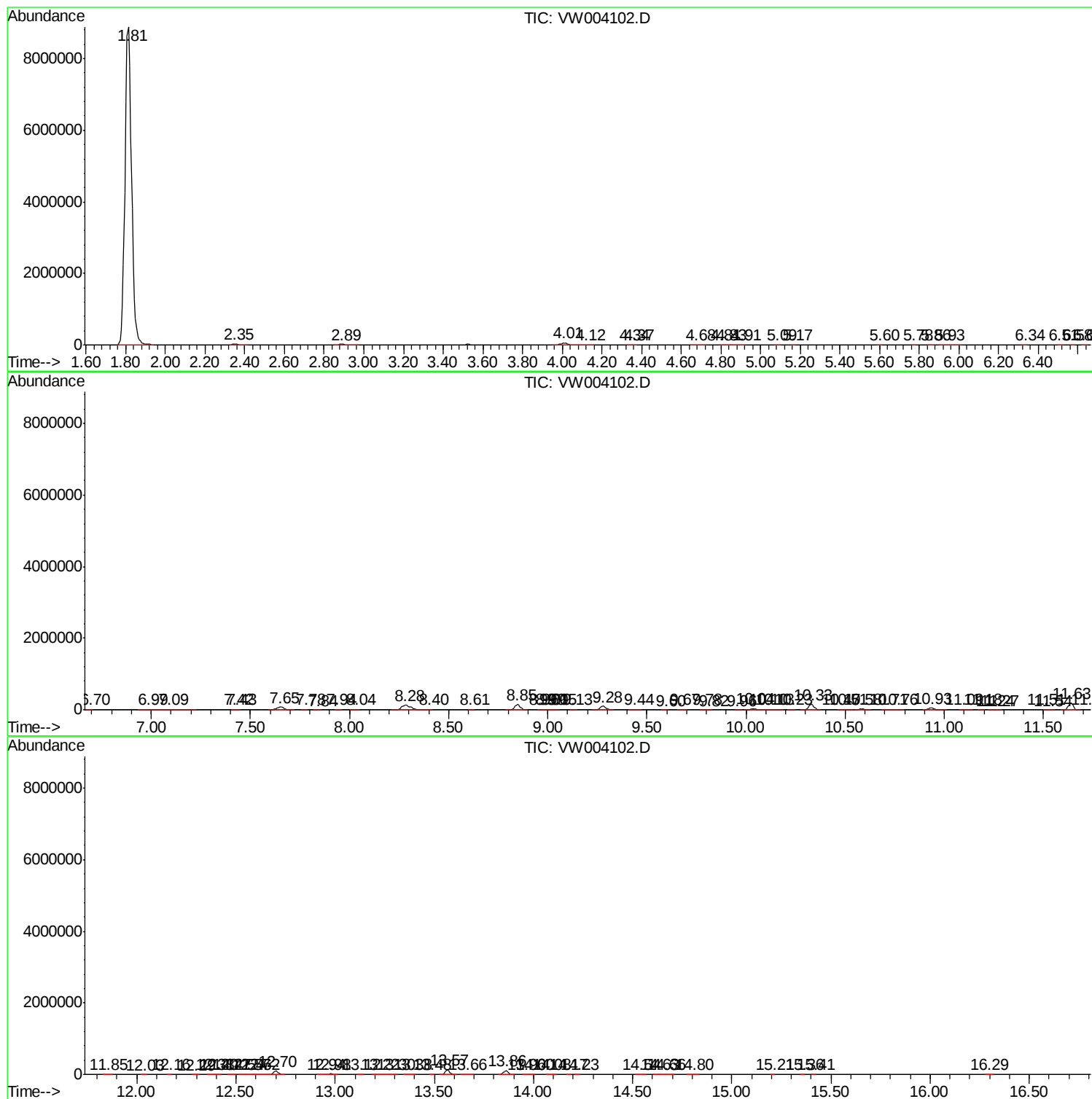
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Instrument :  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW072018\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
Quant Title : VOC Analysis

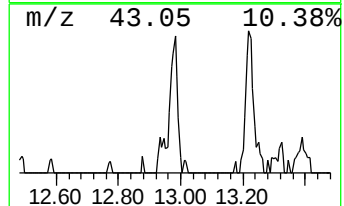
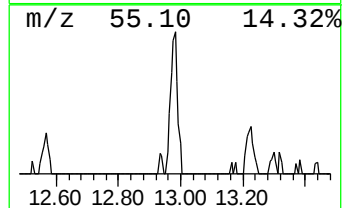
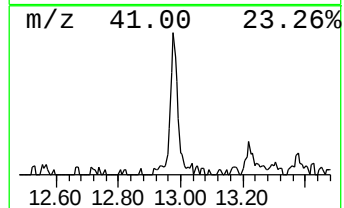
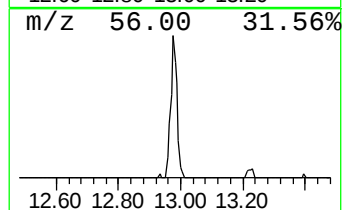
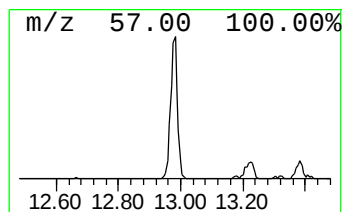
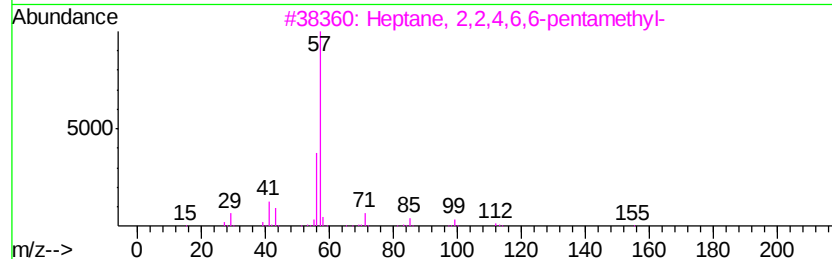
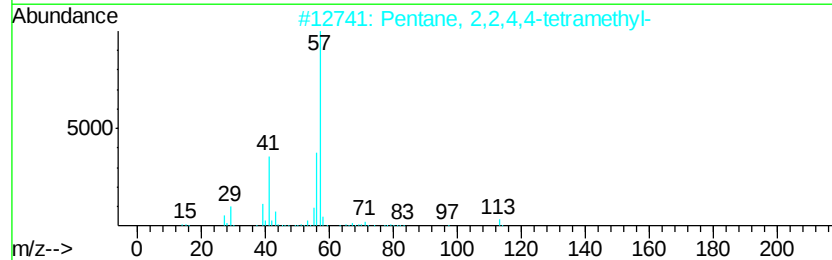
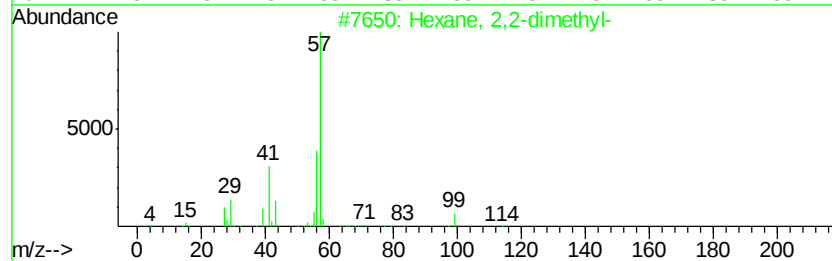
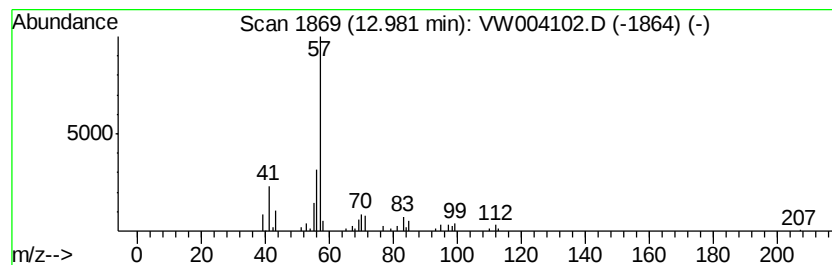
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.98 | 2.78 ug/L | 23301 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# of | 5                               | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexane, 2,2-dimethyl-           |              | 114 | C8H18   | 000590-73-8 | 53   |
| 2       | Pentane, 2,2,4,4-tetramethyl-   |              | 128 | C9H20   | 001070-87-7 | 50   |
| 3       | Heptane, 2,2,4,6,6-pentamethyl- |              | 170 | C12H26  | 013475-82-6 | 50   |
| 4       | Heptane, 2,2,4,6,6-pentamethyl- |              | 170 | C12H26  | 013475-82-6 | 50   |
| 5       | Dodecane, 3-methyl-             |              | 184 | C13H28  | 017312-57-1 | 50   |



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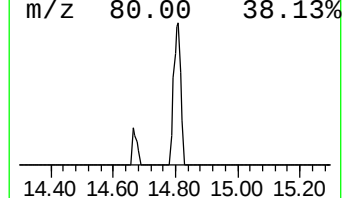
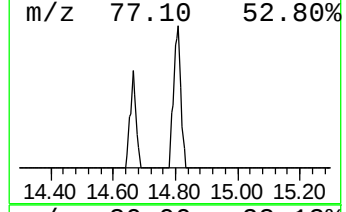
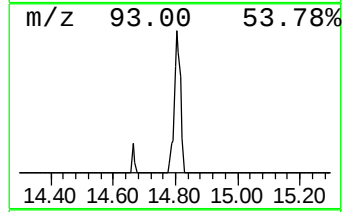
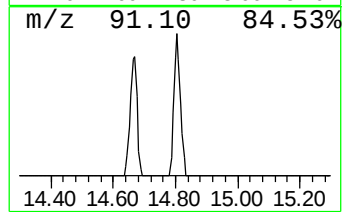
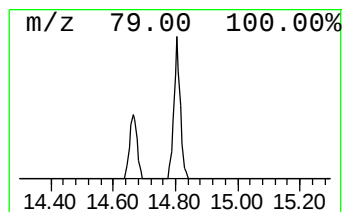
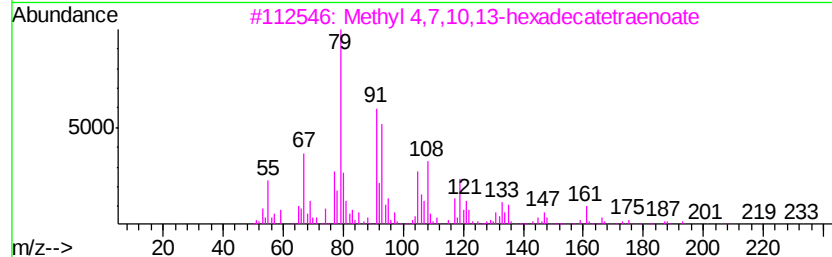
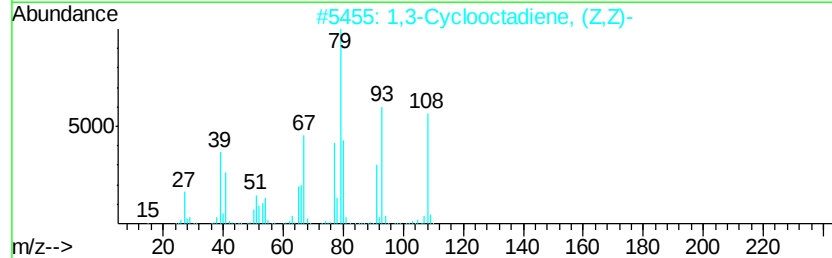
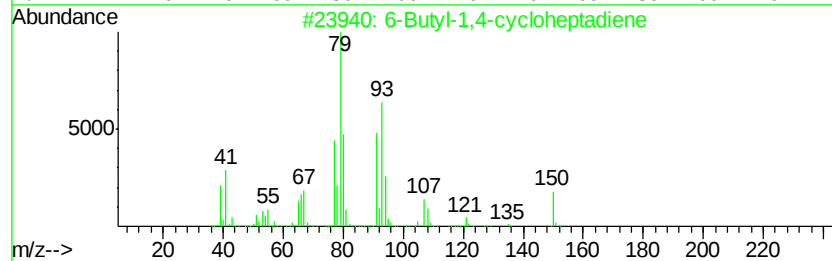
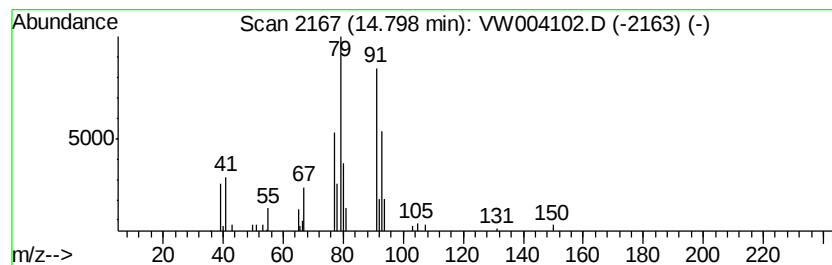
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
Quant Title : VOC Analysis

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

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Peak Number 4 6-Butyl-1,4-cycloheptadiene Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.80 | 1.64 ug/L | 13735 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 6-Butyl-1,4-cycloheptadiene         | 150 | C11H18   | 022735-58-6  | 78   |
| 2    |    |   | 1,3-Cyclooctadiene, (Z,Z)-          | 108 | C8H12    | 003806-59-5  | 59   |
| 3    |    |   | Methyl 4,7,10,13-hexadecatetraen... | 262 | C17H26O2 | 1000336-36-7 | 59   |
| 4    |    |   | Cyclopropane, 1-ethenyl-2-hexeny... | 150 | C11H18   | 022822-99-7  | 53   |
| 5    |    |   | Bicyclo[2.2.1]hept-5-en-2-yl-ace... | 136 | C9H12O   | 1000190-18-4 | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW072018\  
Data File : VW004102.D  
Acq On : 21 Jul 2018 04:23  
Operator : SY/AP  
Sample : J4038-20  
Misc : 6.47G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DB1N7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.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 |
| (DEL) Alkane: Str... | 12.98 | 2.8     | ug/L  | 23301    | 3                     | 13.57 | 209402 | 25.0 |
| 6-Butyl-1,4-cyclo... | 14.80 | 1.6     | ug/L  | 13735    | 3                     | 13.57 | 209402 | 25.0 |