

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
 Data File : VW009838.D  
 Acq On : 09 Apr 2019 13:45  
 Operator : SY/VA  
 Sample : K2255-05RE  
 Misc : 2.81G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFC47RE

## 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<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         | 2.160       | 37            | 42          | 48           | rBV2     | 27916          | 60855         | 3.59%           | 0.453%        |
| 2         | 2.355       | 68            | 74          | 88           | rVB      | 69352          | 171203        | 10.09%          | 1.274%        |
| 3         | 2.892       | 155           | 162         | 178          | rBV      | 67486          | 198625        | 11.71%          | 1.479%        |
| 4         | 3.818       | 312           | 314         | 315          | rBV2     | 1343           | 1062          | 0.06%           | 0.008%        |
| 5         | 4.013       | 333           | 346         | 361          | rBV      | 145693         | 544617        | 32.11%          | 4.054%        |
| 6         | 4.397       | 399           | 409         | 419          | rBV4     | 9003           | 28518         | 1.68%           | 0.212%        |
| 7         | 4.599       | 437           | 442         | 447          | rBV3     | 3222           | 8086          | 0.48%           | 0.060%        |
| 8         | 4.916       | 482           | 494         | 517          | rVV3     | 47675          | 200601        | 11.83%          | 1.493%        |
| 9         | 5.275       | 549           | 553         | 555          | rBV5     | 929            | 1259          | 0.07%           | 0.009%        |
| 10        | 5.422       | 570           | 577         | 579          | rBV7     | 2394           | 4902          | 0.29%           | 0.036%        |
| 11        | 5.446       | 579           | 581         | 584          | rVB2     | 1651           | 1694          | 0.10%           | 0.013%        |
| 12        | 5.818       | 639           | 642         | 644          | rBV3     | 1040           | 1218          | 0.07%           | 0.009%        |
| 13        | 5.934       | 650           | 661         | 674          | rVB3     | 19576          | 60983         | 3.60%           | 0.454%        |
| 14        | 6.428       | 738           | 742         | 747          | rBV2     | 809            | 1734          | 0.10%           | 0.013%        |
| 15        | 6.556       | 760           | 763         | 766          | rBV3     | 873            | 1326          | 0.08%           | 0.010%        |
| 16        | 6.641       | 774           | 777         | 779          | rBV2     | 941            | 1083          | 0.06%           | 0.008%        |
| 17        | 6.793       | 799           | 802         | 805          | rBV5     | 760            | 1324          | 0.08%           | 0.010%        |
| 18        | 6.879       | 813           | 816         | 818          | rBV2     | 893            | 1090          | 0.06%           | 0.008%        |
| 19        | 7.074       | 840           | 848         | 870          | rBV2     | 48373          | 183667        | 10.83%          | 1.367%        |
| 20        | 7.214       | 870           | 871         | 876          | rVB5     | 1517           | 1937          | 0.11%           | 0.014%        |
| 21        | 7.446       | 898           | 909         | 915          | rBV5     | 6586           | 18517         | 1.09%           | 0.138%        |
| 22        | 7.513       | 916           | 920         | 922          | rBV4     | 2039           | 2427          | 0.14%           | 0.018%        |
| 23        | 7.641       | 930           | 941         | 953          | rBV      | 326403         | 774374        | 45.65%          | 5.765%        |
| 24        | 7.872       | 977           | 979         | 982          | rVV4     | 1788           | 2189          | 0.13%           | 0.016%        |
| 25        | 7.903       | 982           | 984         | 988          | rVV5     | 1741           | 2342          | 0.14%           | 0.017%        |
| 26        | 7.946       | 988           | 991         | 998          | rVB5     | 1780           | 3282          | 0.19%           | 0.024%        |
| 27        | 8.049       | 1005          | 1008        | 1010         | rBV3     | 1230           | 1085          | 0.06%           | 0.008%        |
| 28        | 8.275       | 1034          | 1045        | 1061         | rBV2     | 539030         | 1696202       | 100.00%         | 12.627%       |
| 29        | 8.384       | 1061          | 1063        | 1064         | rBV      | 1497           | 1201          | 0.07%           | 0.009%        |
| 30        | 8.598       | 1093          | 1098        | 1100         | rBV4     | 1227           | 1212          | 0.07%           | 0.009%        |
| 31        | 8.683       | 1110          | 1112        | 1117         | rVB5     | 1489           | 1978          | 0.12%           | 0.015%        |
| 32        | 8.842       | 1128          | 1138        | 1147         | rBV      | 516848         | 1013101       | 59.73%          | 7.542%        |
| 33        | 8.994       | 1160          | 1163        | 1166         | rBV4     | 995            | 1479          | 0.09%           | 0.011%        |
| 34        | 9.079       | 1172          | 1177        | 1183         | rVB9     | 4106           | 8555          | 0.50%           | 0.064%        |

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## Integration Parameters: LSCINT.P

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 Sampling : 1  
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 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

|    |        |      |      |      |       |        |         |        |        |
|----|--------|------|------|------|-------|--------|---------|--------|--------|
| 35 | 9.275  | 1199 | 1209 | 1217 | rBV   | 413526 | 837324  | 49.36% | 6.233% |
| 36 | 9.421  | 1232 | 1233 | 1237 | rVV3  | 1172   | 1262    | 0.07%  | 0.009% |
| 37 | 9.464  | 1237 | 1240 | 1242 | rVV3  | 965    | 1146    | 0.07%  | 0.009% |
| 38 | 9.585  | 1257 | 1260 | 1262 | rBV2  | 1017   | 1066    | 0.06%  | 0.008% |
| 39 | 9.653  | 1265 | 1271 | 1276 | rBV7  | 3689   | 8113    | 0.48%  | 0.060% |
| 40 | 9.756  | 1284 | 1288 | 1294 | rVB5  | 3534   | 5922    | 0.35%  | 0.044% |
| 41 | 9.896  | 1305 | 1311 | 1316 | rBV5  | 7665   | 16643   | 0.98%  | 0.124% |
| 42 | 9.945  | 1316 | 1319 | 1322 | rVB5  | 3270   | 4735    | 0.28%  | 0.035% |
| 43 | 10.031 | 1326 | 1333 | 1344 | rBV   | 154828 | 293322  | 17.29% | 2.184% |
| 44 | 10.244 | 1359 | 1368 | 1373 | rBV5  | 4906   | 10773   | 0.64%  | 0.080% |
| 45 | 10.323 | 1373 | 1381 | 1387 | rBV   | 667500 | 1170599 | 69.01% | 8.714% |
| 46 | 10.390 | 1387 | 1392 | 1401 | rVB3  | 34381  | 74506   | 4.39%  | 0.555% |
| 47 | 10.500 | 1404 | 1410 | 1414 | rBV7  | 2451   | 5443    | 0.32%  | 0.041% |
| 48 | 10.573 | 1416 | 1422 | 1431 | rBV   | 114161 | 201446  | 11.88% | 1.500% |
| 49 | 10.701 | 1438 | 1443 | 1449 | rBV2  | 12271  | 21354   | 1.26%  | 0.159% |
| 50 | 10.780 | 1450 | 1456 | 1462 | rVV9  | 3139   | 6572    | 0.39%  | 0.049% |
| 51 | 10.860 | 1463 | 1469 | 1474 | rVB6  | 9196   | 16514   | 0.97%  | 0.123% |
| 52 | 10.927 | 1474 | 1480 | 1491 | rBV   | 129398 | 237315  | 13.99% | 1.767% |
| 53 | 11.073 | 1501 | 1504 | 1509 | rBV5  | 2635   | 5281    | 0.31%  | 0.039% |
| 54 | 11.171 | 1518 | 1520 | 1523 | rBV4  | 1296   | 1476    | 0.09%  | 0.011% |
| 55 | 11.286 | 1532 | 1539 | 1544 | rBV8  | 2808   | 5401    | 0.32%  | 0.040% |
| 56 | 11.396 | 1553 | 1557 | 1558 | rBV4  | 2024   | 2540    | 0.15%  | 0.019% |
| 57 | 11.506 | 1571 | 1575 | 1576 | rBV2  | 2338   | 2931    | 0.17%  | 0.022% |
| 58 | 11.634 | 1587 | 1596 | 1603 | rBV   | 626835 | 1099978 | 64.85% | 8.189% |
| 59 | 11.707 | 1603 | 1608 | 1617 | rVV3  | 25165  | 60318   | 3.56%  | 0.449% |
| 60 | 11.768 | 1617 | 1618 | 1621 | rVV3  | 1928   | 2049    | 0.12%  | 0.015% |
| 61 | 11.841 | 1624 | 1630 | 1632 | rVV4  | 8137   | 15030   | 0.89%  | 0.112% |
| 62 | 11.878 | 1632 | 1636 | 1644 | rVB2  | 19405  | 32061   | 1.89%  | 0.239% |
| 63 | 12.030 | 1657 | 1661 | 1664 | rBV5  | 3388   | 5083    | 0.30%  | 0.038% |
| 64 | 12.073 | 1664 | 1668 | 1671 | rBV2  | 8867   | 14473   | 0.85%  | 0.108% |
| 65 | 12.176 | 1680 | 1685 | 1690 | rVB6  | 9121   | 16984   | 1.00%  | 0.126% |
| 66 | 12.237 | 1690 | 1695 | 1706 | rVB2  | 25468  | 55886   | 3.29%  | 0.416% |
| 67 | 12.359 | 1706 | 1715 | 1723 | rBV10 | 6763   | 27435   | 1.62%  | 0.204% |
| 68 | 12.433 | 1724 | 1727 | 1731 | rBV5  | 4748   | 7782    | 0.46%  | 0.058% |
| 69 | 12.500 | 1736 | 1738 | 1742 | rVB3  | 5121   | 6070    | 0.36%  | 0.045% |
| 70 | 12.591 | 1747 | 1753 | 1762 | rBV   | 335656 | 547120  | 32.26% | 4.073% |
| 71 | 12.695 | 1763 | 1770 | 1775 | rVV   | 349558 | 597999  | 35.26% | 4.452% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFC47RE

## Integration Parameters: LSCINT.P

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 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

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 12.756 | 1775 | 1780 | 1791 | rVB2 | 86446  | 196038 | 11.56% | 1.459% |
| 73  | 12.847 | 1791 | 1795 | 1796 | rBV3 | 3651   | 4557   | 0.27%  | 0.034% |
| 74  | 12.963 | 1805 | 1814 | 1820 | rBV2 | 59650  | 146986 | 8.67%  | 1.094% |
| 75  | 13.012 | 1820 | 1822 | 1830 | rVB2 | 25763  | 40351  | 2.38%  | 0.300% |
| 76  | 13.121 | 1831 | 1840 | 1844 | rBV2 | 61643  | 125763 | 7.41%  | 0.936% |
| 77  | 13.195 | 1844 | 1852 | 1864 | rVB  | 116660 | 250631 | 14.78% | 1.866% |
| 78  | 13.304 | 1864 | 1870 | 1876 | rBV  | 58644  | 98034  | 5.78%  | 0.730% |
| 79  | 13.408 | 1879 | 1887 | 1896 | rVV  | 137788 | 259901 | 15.32% | 1.935% |
| 80  | 13.475 | 1896 | 1898 | 1902 | rVV5 | 10233  | 19408  | 1.14%  | 0.144% |
| 81  | 13.560 | 1902 | 1912 | 1916 | rVV  | 428156 | 737354 | 43.47% | 5.489% |
| 82  | 13.609 | 1916 | 1920 | 1930 | rVB2 | 108011 | 235880 | 13.91% | 1.756% |
| 83  | 13.768 | 1941 | 1946 | 1953 | rVB2 | 38021  | 67420  | 3.97%  | 0.502% |
| 84  | 13.853 | 1953 | 1960 | 1966 | rBV  | 369198 | 627257 | 36.98% | 4.670% |
| 85  | 14.079 | 1992 | 1997 | 2014 | rVB3 | 32525  | 81864  | 4.83%  | 0.609% |
| 86  | 14.329 | 2036 | 2038 | 2041 | rVB4 | 3280   | 3633   | 0.21%  | 0.027% |
| 87  | 14.396 | 2047 | 2049 | 2052 | rVB3 | 3192   | 3486   | 0.21%  | 0.026% |
| 88  | 14.475 | 2060 | 2062 | 2063 | rBV2 | 1895   | 1602   | 0.09%  | 0.012% |
| 89  | 14.511 | 2063 | 2068 | 2077 | rVB4 | 7459   | 16203  | 0.96%  | 0.121% |
| 90  | 14.731 | 2102 | 2104 | 2107 | rVB3 | 1679   | 1424   | 0.08%  | 0.011% |
| 91  | 15.316 | 2197 | 2200 | 2202 | rBV4 | 1195   | 1794   | 0.11%  | 0.013% |
| 92  | 15.341 | 2202 | 2204 | 2208 | rVB5 | 1701   | 2020   | 0.12%  | 0.015% |
| 93  | 15.444 | 2213 | 2221 | 2226 | rVV4 | 24548  | 49988  | 2.95%  | 0.372% |
| 94  | 15.499 | 2226 | 2230 | 2235 | rVV2 | 7607   | 12600  | 0.74%  | 0.094% |
| 95  | 15.810 | 2275 | 2281 | 2286 | rVV5 | 8283   | 14269  | 0.84%  | 0.106% |
| 96  | 15.895 | 2291 | 2295 | 2301 | rVB7 | 2663   | 5592   | 0.33%  | 0.042% |
| 97  | 16.145 | 2334 | 2336 | 2340 | rVB4 | 1265   | 1332   | 0.08%  | 0.010% |
| 98  | 16.554 | 2400 | 2403 | 2405 | rVB4 | 931    | 1083   | 0.06%  | 0.008% |
| 99  | 16.700 | 2425 | 2427 | 2430 | rVV4 | 1493   | 1577   | 0.09%  | 0.012% |
| 100 | 16.737 | 2431 | 2433 | 2436 | rVV4 | 1307   | 1274   | 0.08%  | 0.009% |

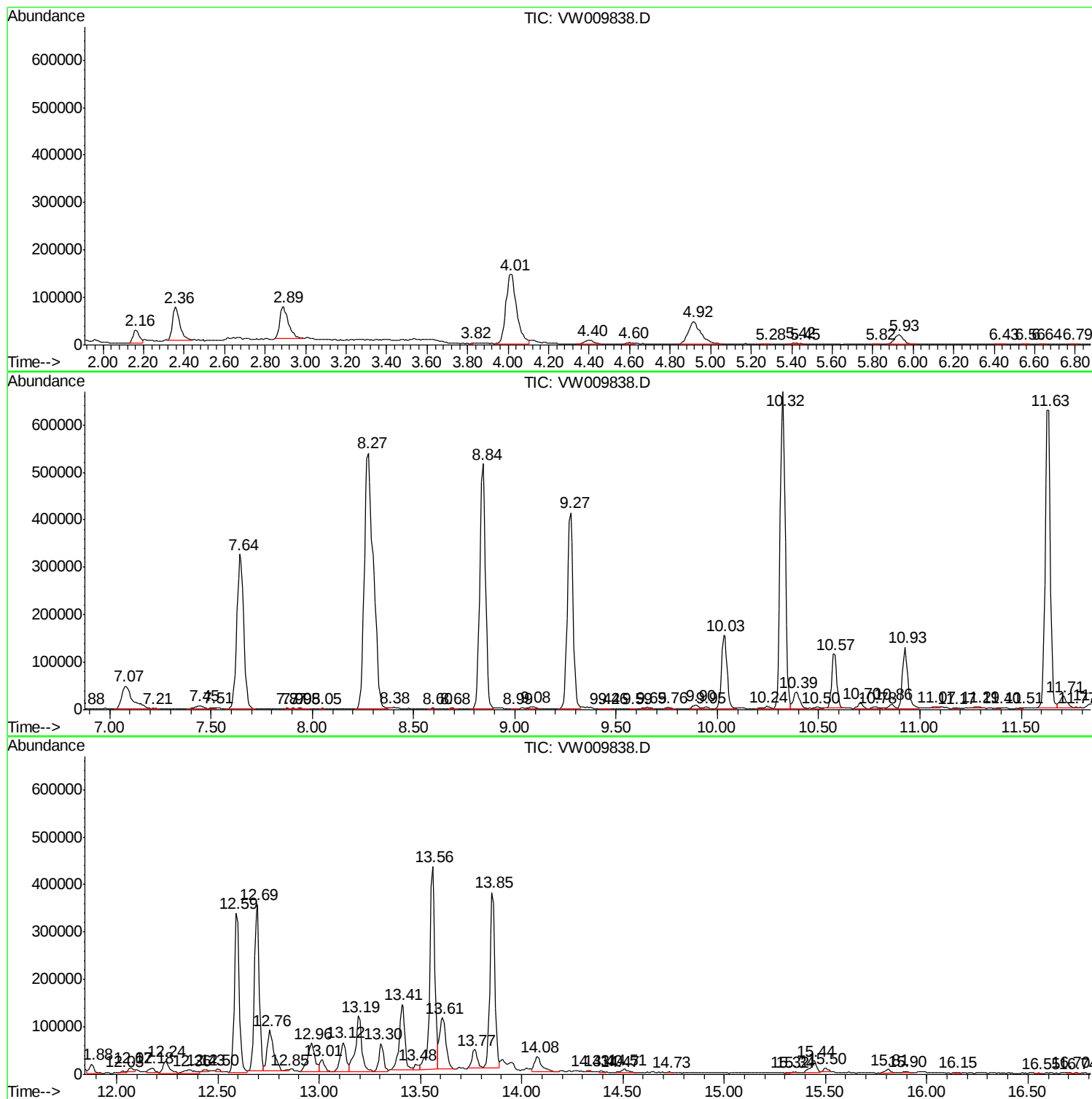
Sum of corrected areas: 13433001

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Instrument :  
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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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

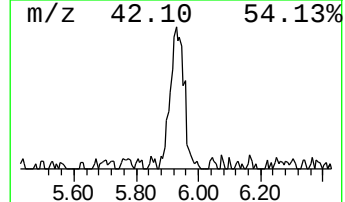
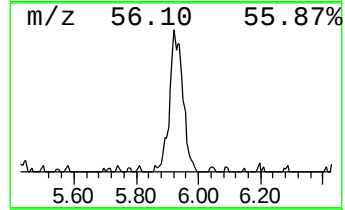
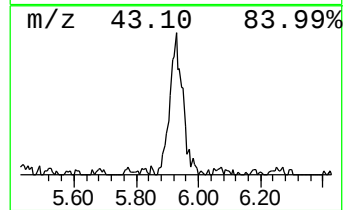
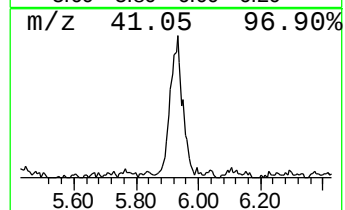
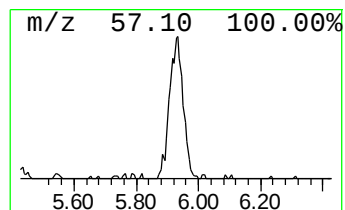
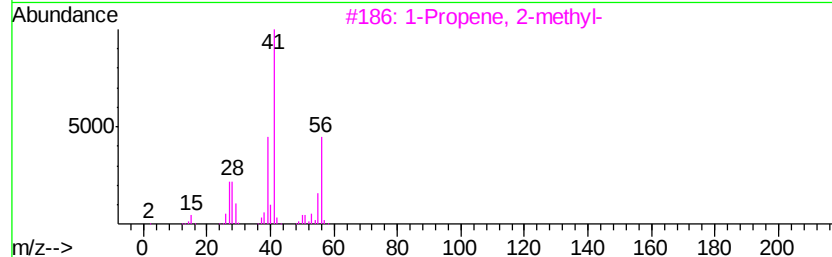
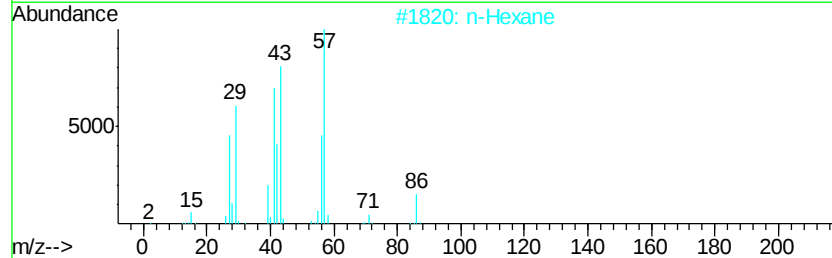
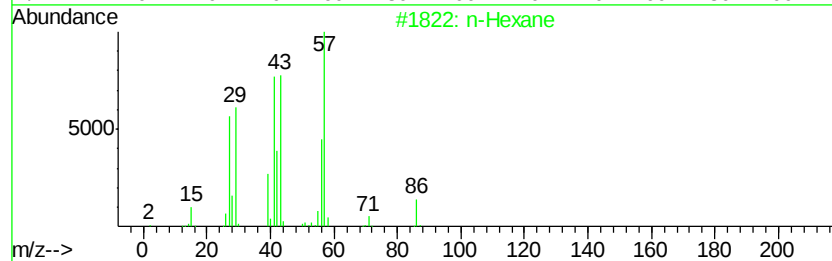
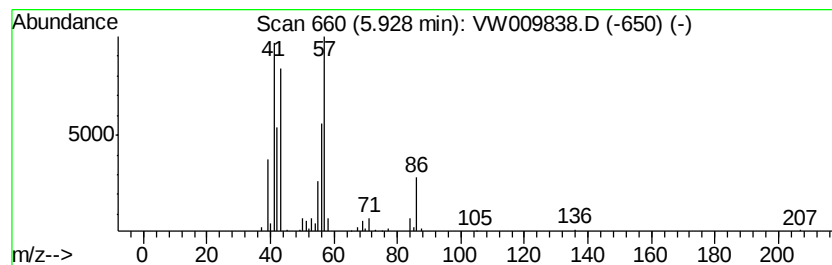
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.93 | 1.50 ug/L | 60983 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|----------------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane             | 86 | C6H14   | 000110-54-3 | 53   |
| 2    |    | n-Hexane             | 86 | C6H14   | 000110-54-3 | 50   |
| 3    |    | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 49   |
| 4    |    | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 49   |
| 5    |    | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 43   |



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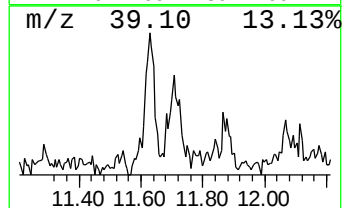
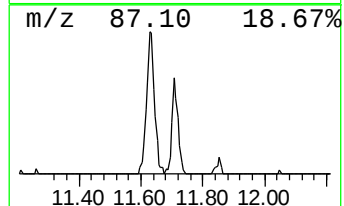
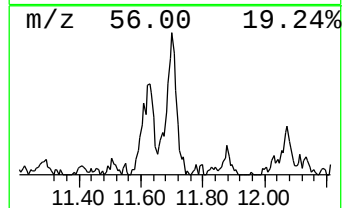
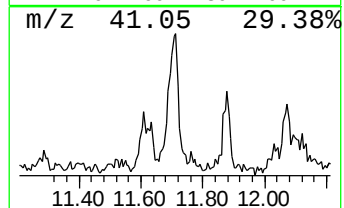
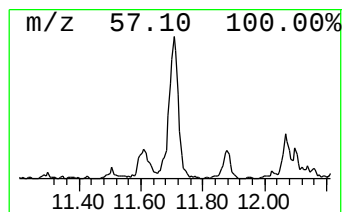
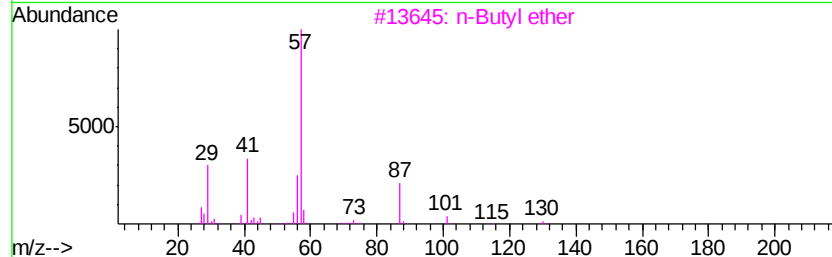
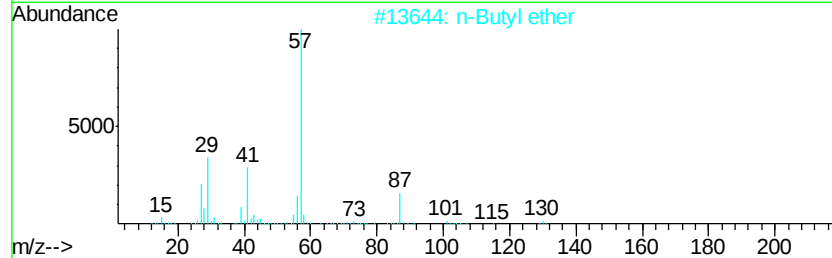
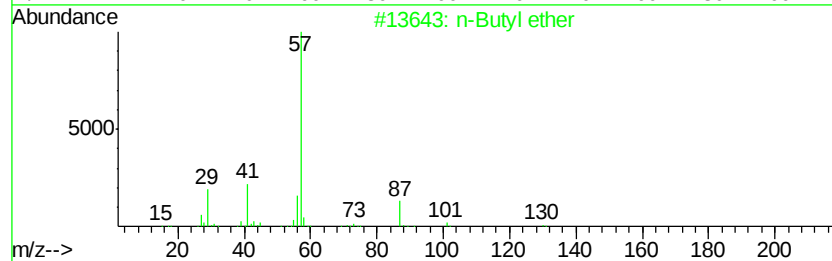
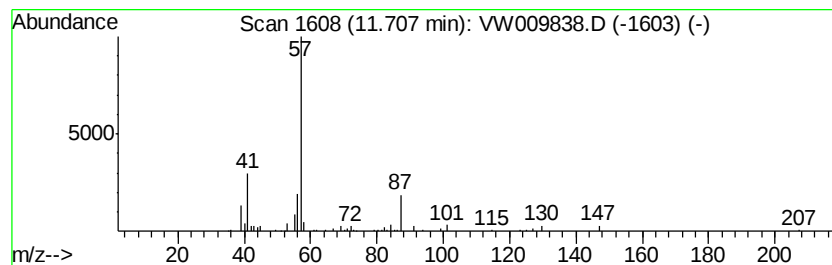
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 n-Butyl ether Concentration Rank 14

| R.T.    | EstConc                         | Area         | Relative to ISTD | R.T.     |             |      |
|---------|---------------------------------|--------------|------------------|----------|-------------|------|
| 11.71   | 1.37 ug/L                       | 60318        | Chlorobenzene-d5 | 11.63    |             |      |
| Hit# of | 5                               | Tentative ID | MW               | MolForm  | CAS#        | Qual |
| 1       | n-Butyl ether                   |              | 130              | C8H18O   | 000142-96-1 | 72   |
| 2       | n-Butyl ether                   |              | 130              | C8H18O   | 000142-96-1 | 64   |
| 3       | n-Butyl ether                   |              | 130              | C8H18O   | 000142-96-1 | 45   |
| 4       | Sulfurous acid, dibutyl ester   |              | 194              | C8H18O3S | 000626-85-7 | 40   |
| 5       | Ethanedioic acid, dibutyl ester |              | 202              | C10H18O4 | 002050-60-4 | 40   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

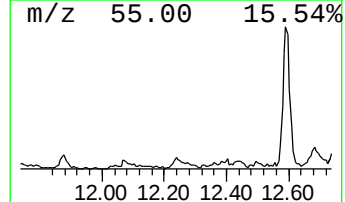
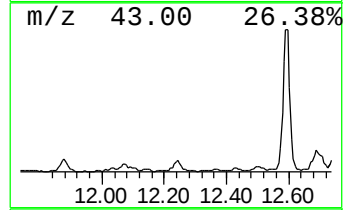
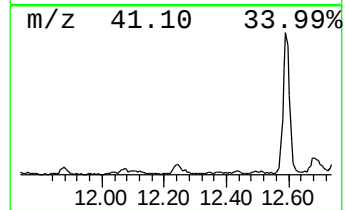
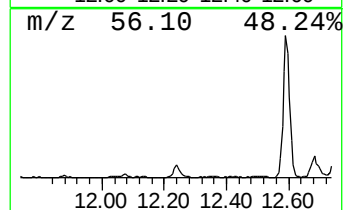
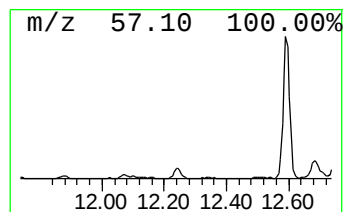
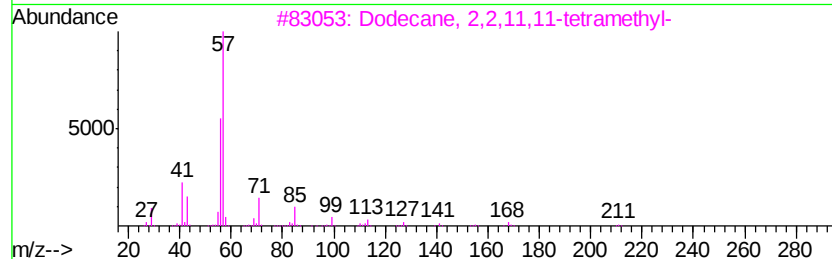
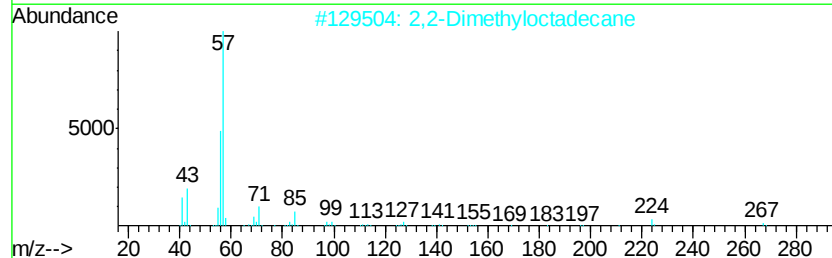
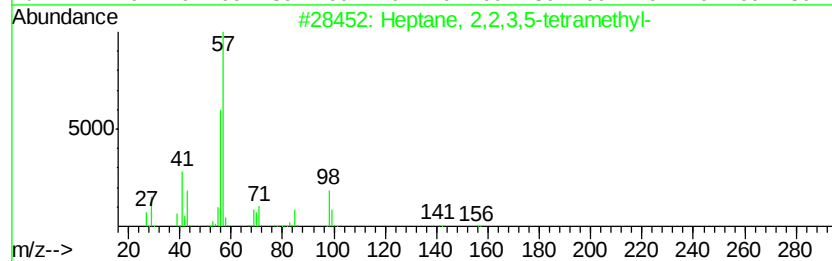
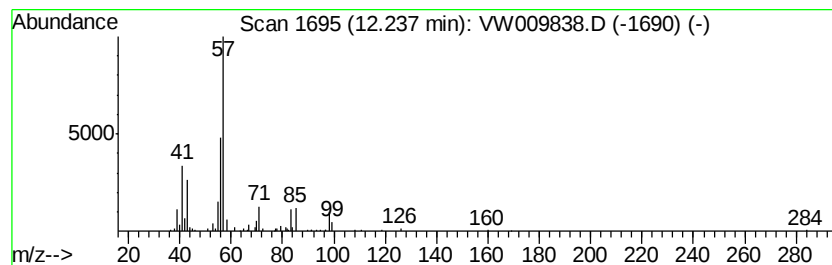
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.24 | 1.27 ug/L | 55886 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|-----------|----------------------------------|-----|---------|--------------|------|
| 1         | Heptane, 2,2,3,5-tetramethyl-    | 156 | C11H24  | 061868-42-6  | 72   |
| 2         | 2,2-Dimethyloctadecane           | 282 | C20H42  | 1000360-43-2 | 59   |
| 3         | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34  | 127204-12-0  | 59   |
| 4         | Decane, 2,2,7-trimethyl-         | 184 | C13H28  | 062237-99-4  | 59   |
| 5         | Heptane, 2,2,4,6,6-pentamethyl-  | 170 | C12H26  | 013475-82-6  | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

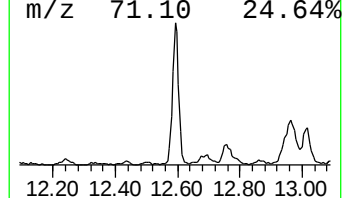
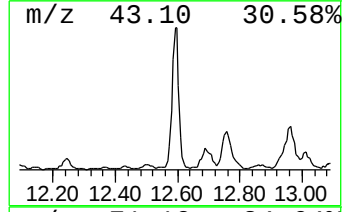
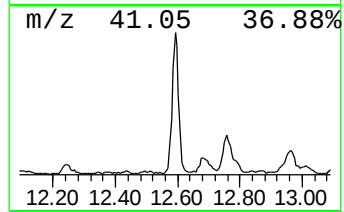
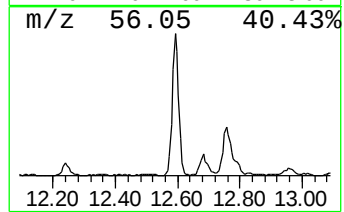
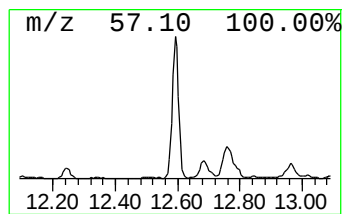
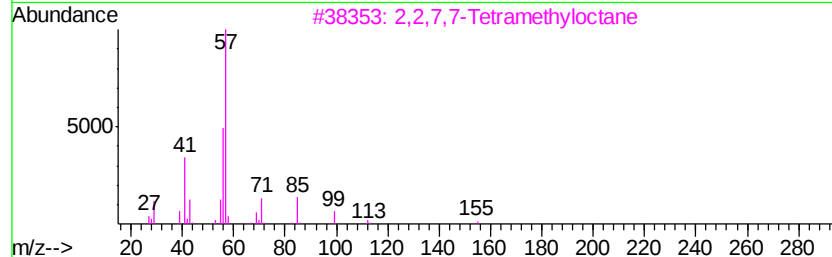
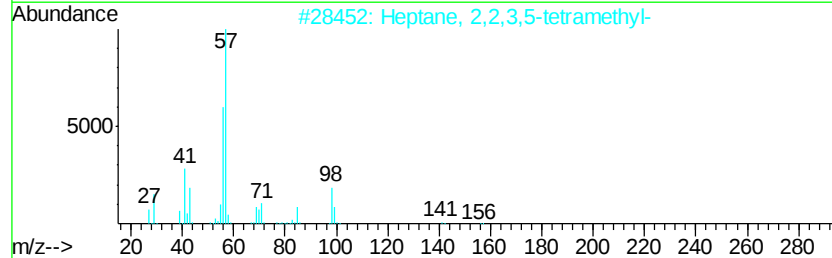
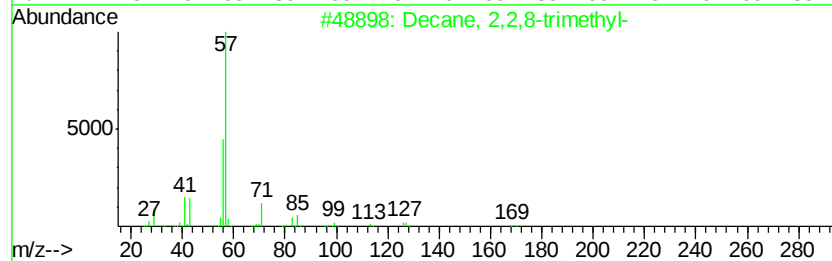
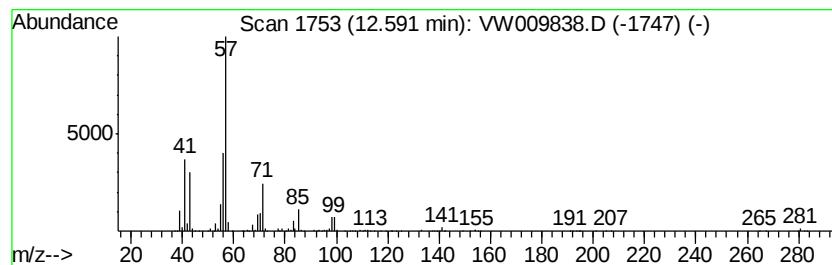
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.59 | 12.43 ug/L | 547120 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,2,8-trimethyl-      | 184 | C13H28  | 062238-01-1 | 64   |
| 2    |    | Heptane, 2,2,3,5-tetramethyl- | 156 | C11H24  | 061868-42-6 | 59   |
| 3    |    | 2,2,7,7-Tetramethyloctane     | 170 | C12H26  | 001071-31-4 | 59   |
| 4    |    | Hexane, 2,2,5-trimethyl-      | 128 | C9H20   | 003522-94-9 | 59   |
| 5    |    | Hexane, 2,2,5,5-tetramethyl-  | 142 | C10H22  | 001071-81-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

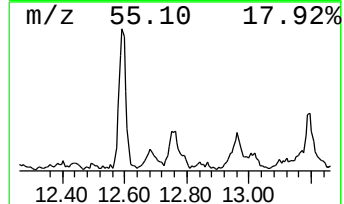
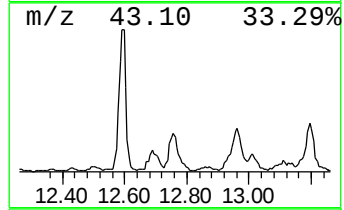
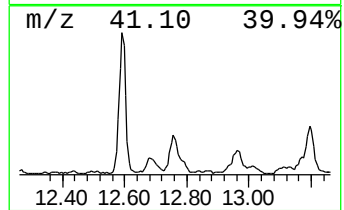
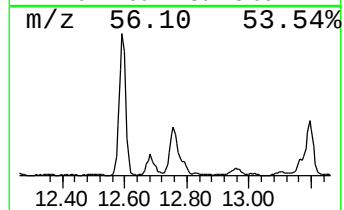
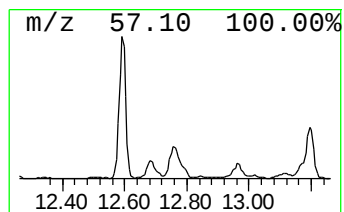
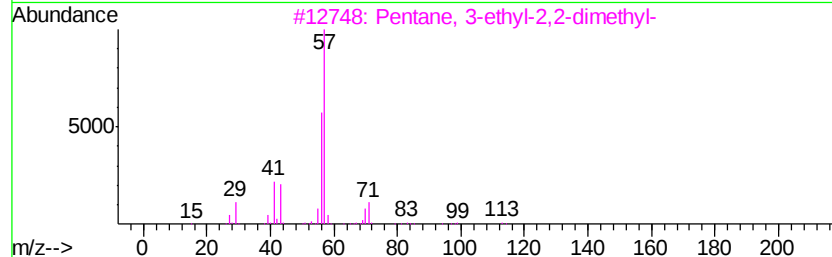
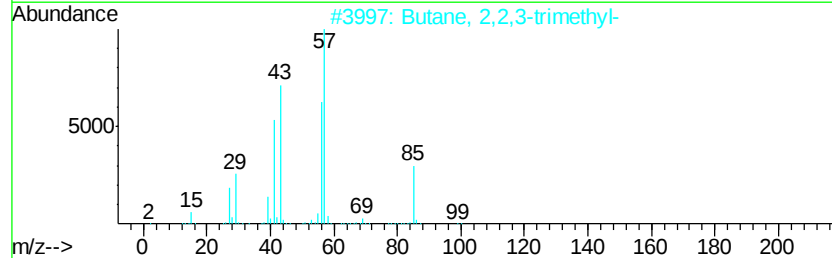
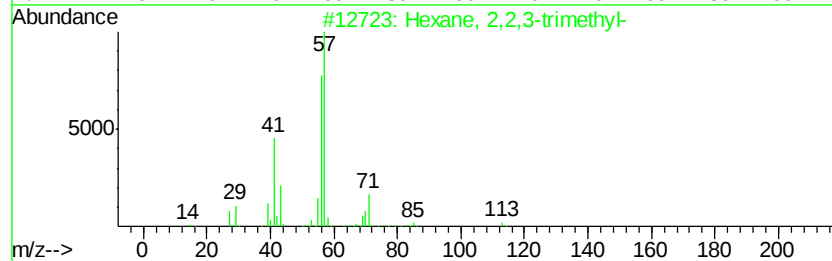
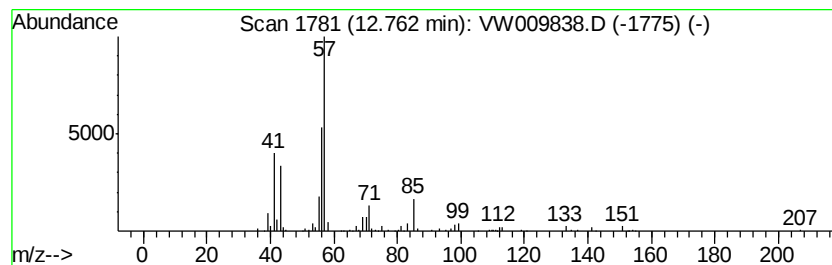
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.76 | 6.65 ug/L | 196038 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                              | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexane, 2,2,3-trimethyl-       |              | 128 | C9H20   | 016747-25-4 | 53   |
| 2       | Butane, 2,2,3-trimethyl-       |              | 100 | C7H16   | 000464-06-2 | 50   |
| 3       | Pentane, 3-ethyl-2,2-dimethyl- |              | 128 | C9H20   | 016747-32-3 | 50   |
| 4       | Octane, 2,2-dimethyl-          |              | 142 | C10H22  | 015869-87-1 | 47   |
| 5       | 1-Hexene, 4-methyl-            |              | 98  | C7H14   | 003769-23-1 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

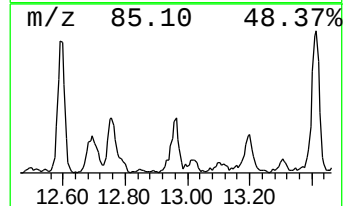
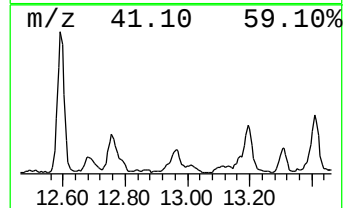
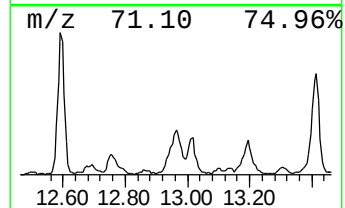
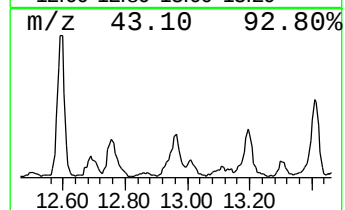
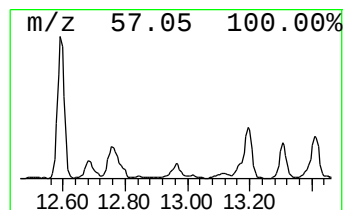
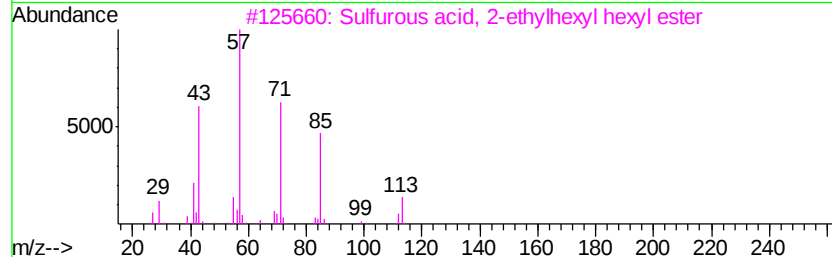
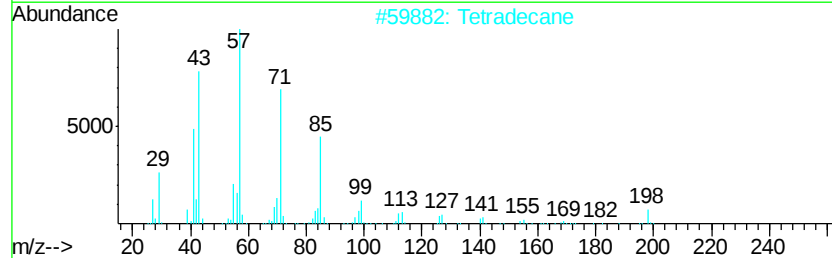
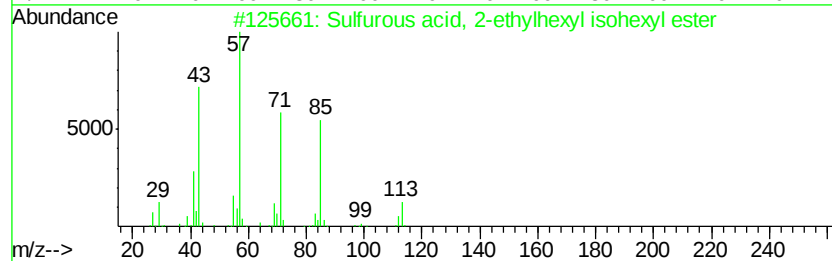
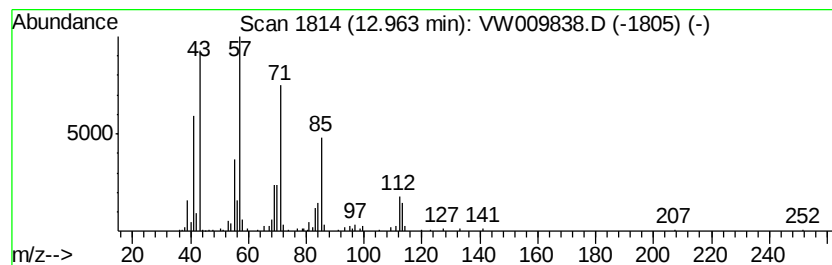
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

\*\*\*\*\*  
Peak Number 8 Sulfurous acid, 2-ethylhexy... Concentration Rank 6

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.      |              |      |
|---------|-----------|-------------------------------------|------------------------|-----------|--------------|------|
| 12.96   | 4.98 ug/L | 146986                              | 1,4-Dichlorobenzene-d4 | 13.56     |              |      |
| Hit# of | 5         | Tentative ID                        | MW                     | MolForm   | CAS#         | Qual |
| 1       |           | Sulfurous acid, 2-ethylhexyl iso... | 278                    | C14H30O3S | 1000309-19-0 | 72   |
| 2       |           | Tetradecane                         | 198                    | C14H30    | 000629-59-4  | 72   |
| 3       |           | Sulfurous acid, 2-ethylhexyl hex... | 278                    | C14H30O3S | 1000309-20-2 | 64   |
| 4       |           | Octadecane, 1-iodo-                 | 380                    | C18H37I   | 000629-93-6  | 64   |
| 5       |           | Eicosane, 10-methyl-                | 296                    | C21H44    | 054833-23-7  | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

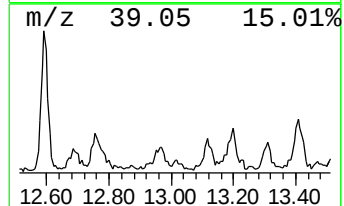
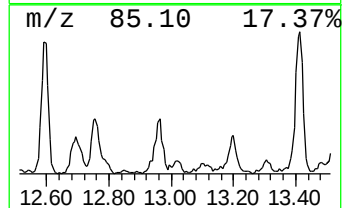
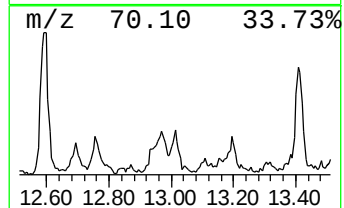
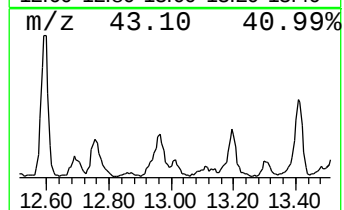
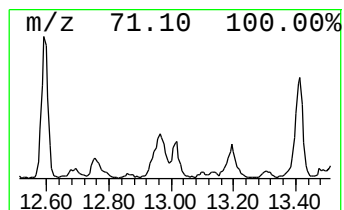
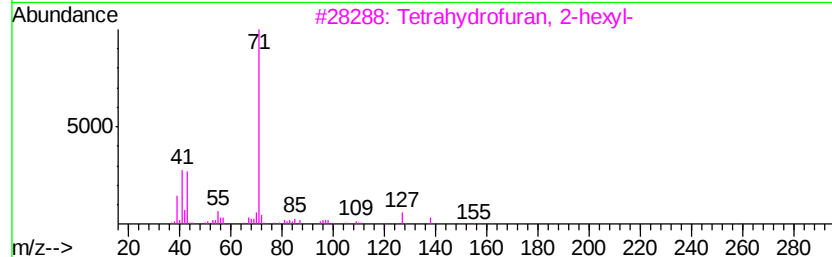
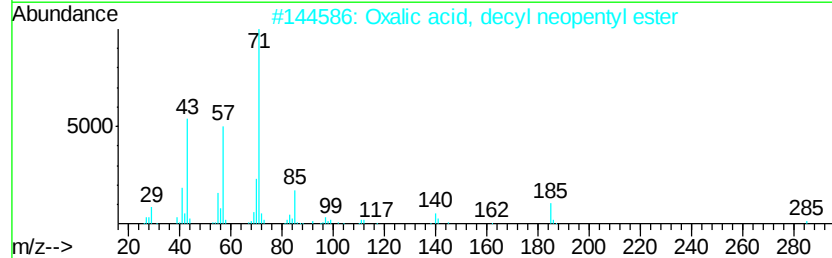
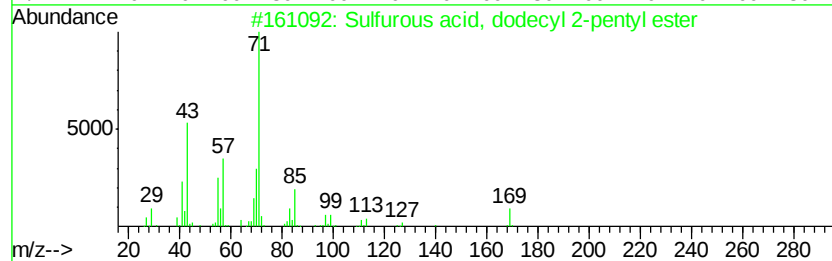
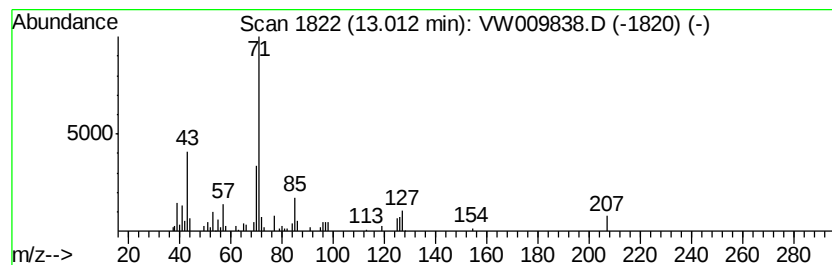
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Sulfurous acid, dodecyl 2-p... Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.01 | 1.37 ug/L | 40351 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, dodecyl 2-pentyl... | 320 | C17H36O3S | 1000309-16-1 | 64   |
| 2    |    | Oxalic acid, decyl neopentyl ester  | 300 | C17H32O4  | 1000309-73-4 | 59   |
| 3    |    | Tetrahydrofuran, 2-hexyl-           | 156 | C10H20O   | 003208-32-0  | 59   |
| 4    |    | Borane, diethyl[1-ethyl-2-(metho... | 196 | C12H25BO  | 053670-48-7  | 53   |
| 5    |    | 1-Hexanol, 5-methyl-2-(1-methyle... | 158 | C10H22O   | 002051-33-4  | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

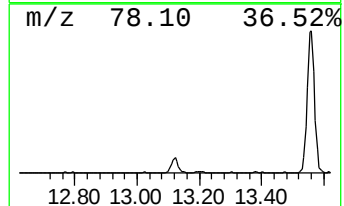
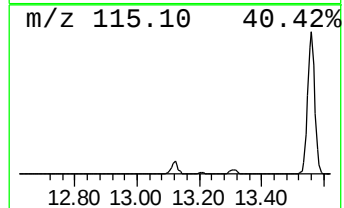
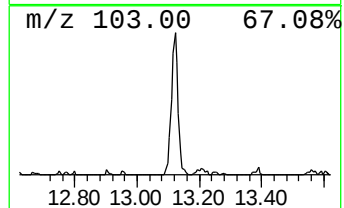
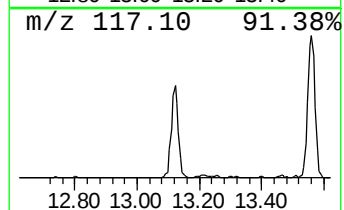
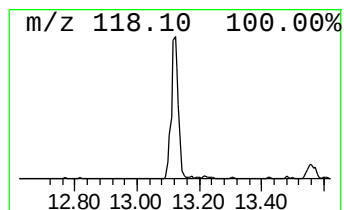
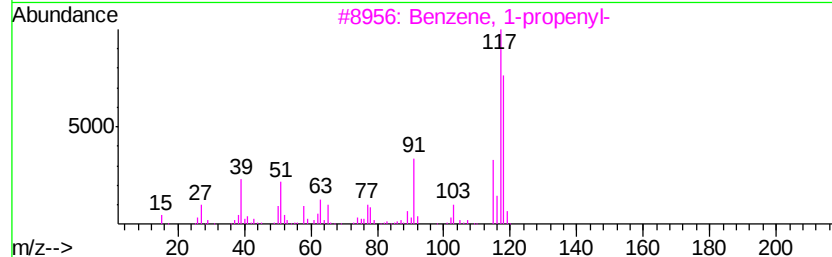
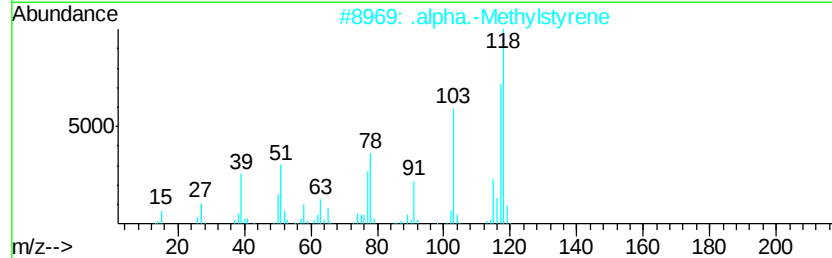
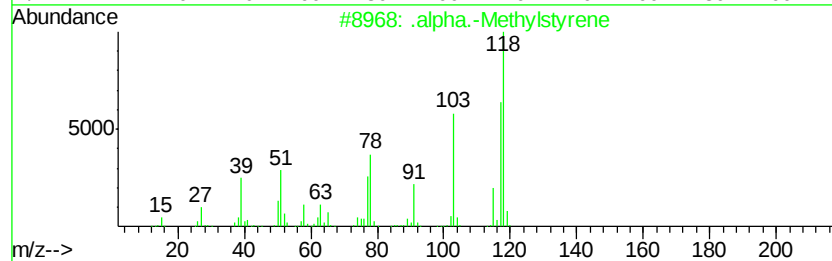
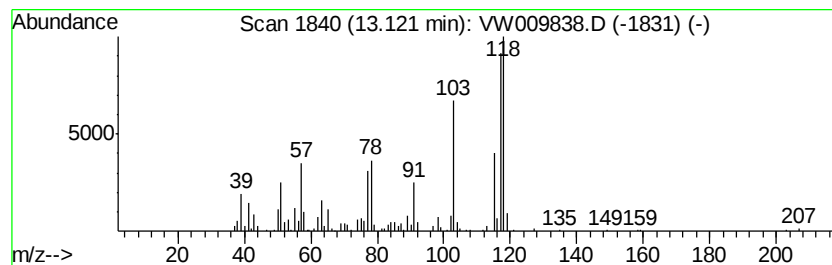
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 .alpha.-Methylstyrene Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.12 | 4.26 ug/L | 125763 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | .alpha.-Methylstyrene               | 118 | C9H10   | 000098-83-9 | 94   |
| 2    |    | .alpha.-Methylstyrene               | 118 | C9H10   | 000098-83-9 | 86   |
| 3    |    | Benzene, 1-propenyl-                | 118 | C9H10   | 000637-50-3 | 64   |
| 4    |    | .alpha.-Methylstyrene               | 118 | C9H10   | 000098-83-9 | 64   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10   | 022250-74-4 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

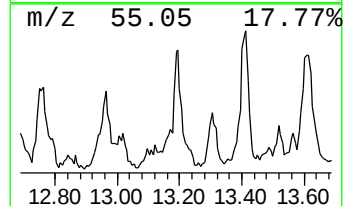
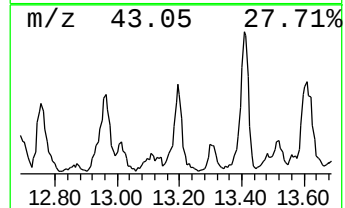
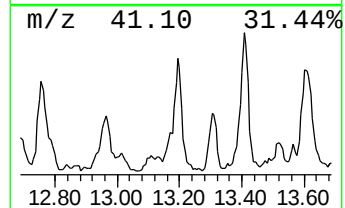
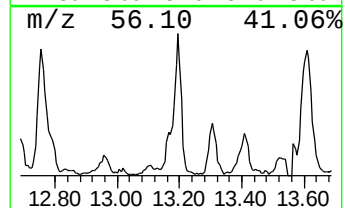
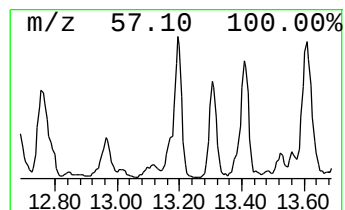
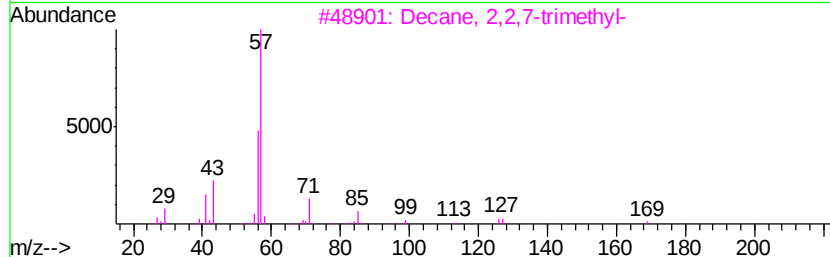
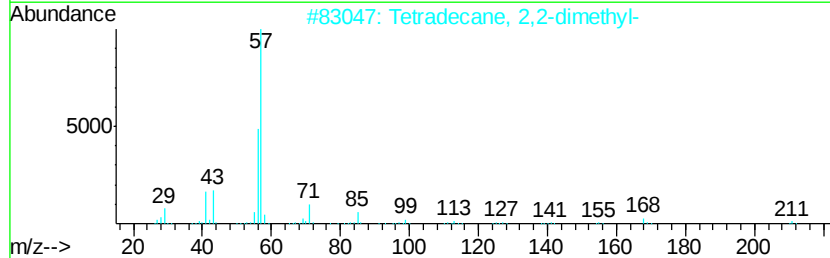
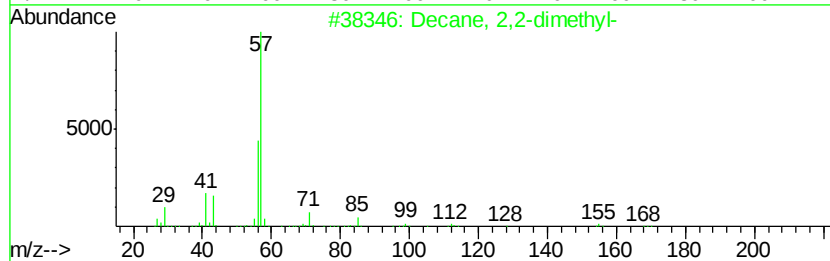
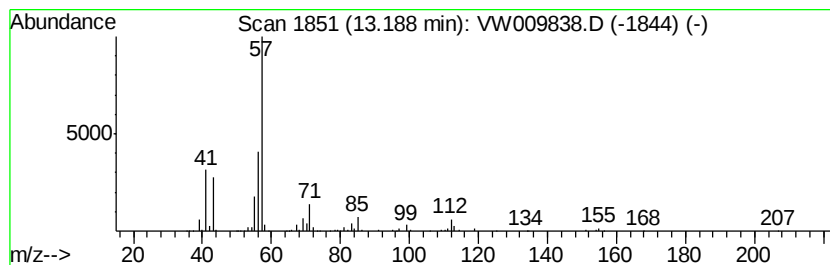
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.19 | 8.50 ug/L | 250631 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,2-dimethyl-           | 170 | C12H26  | 017302-37-3 | 72   |
| 2    |    | Tetradecane, 2,2-dimethyl-      | 226 | C16H34  | 059222-86-5 | 64   |
| 3    |    | Decane, 2,2,7-trimethyl-        | 184 | C13H28  | 062237-99-4 | 64   |
| 4    |    | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26  | 013475-82-6 | 64   |
| 5    |    | Heptane, 2,2-dimethyl-          | 128 | C9H20   | 001071-26-7 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

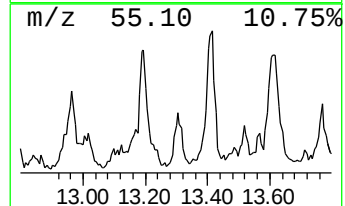
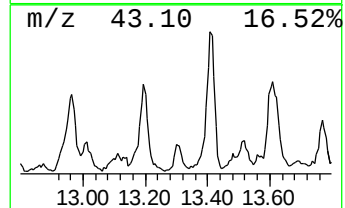
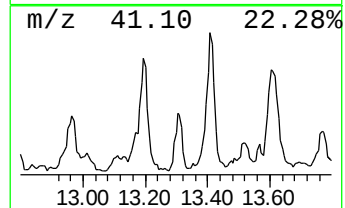
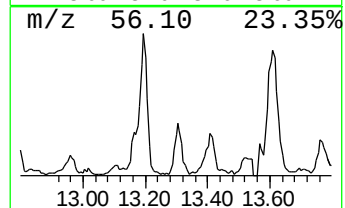
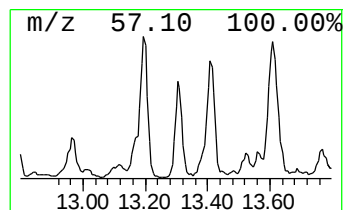
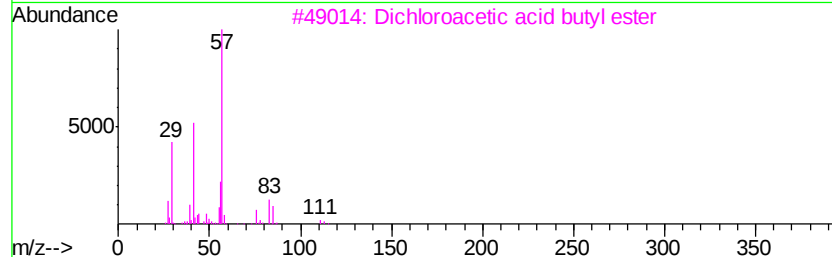
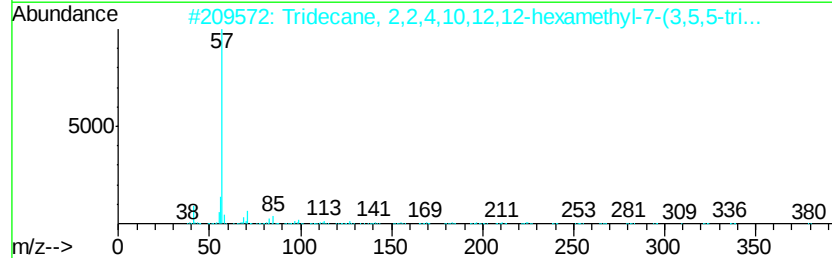
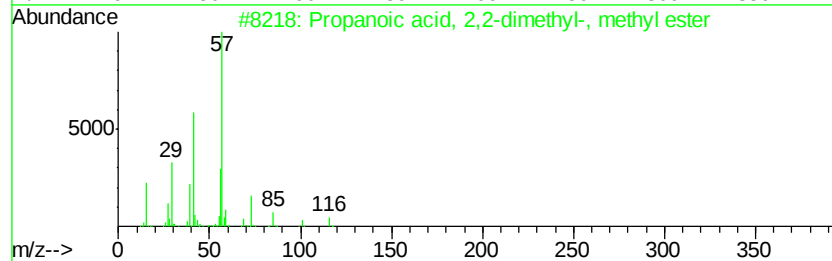
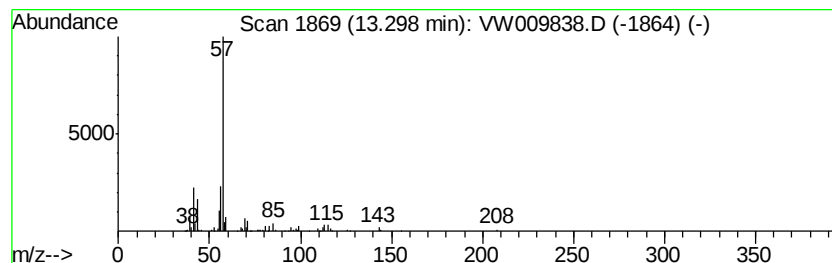
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 unknown-01 Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.30 | 3.32 ug/L | 98034 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Propanoic acid, 2,2-dimethyl-, m... | 116 | C6H12O2    | 000598-98-1  | 47   |
| 2    |    | Tridecane, 2,2,4,10,12,12-hexame... | 394 | C28H58     | 003035-75-4  | 38   |
| 3    |    | Dichloroacetic acid butyl ester     | 184 | C6H10Cl2O2 | 029003-73-4  | 38   |
| 4    |    | Octane, 3-methyl-                   | 128 | C9H20      | 002216-33-3  | 37   |
| 5    |    | Sulfone, 2-hydroxyhexyl t-butyl     | 222 | C10H22O3S  | 1000161-82-5 | 37   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

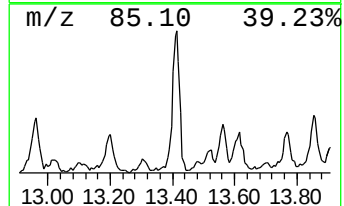
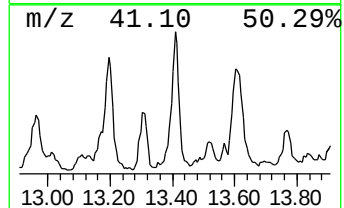
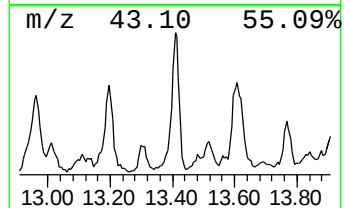
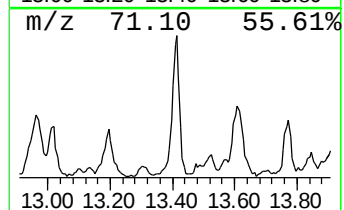
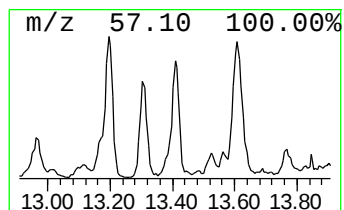
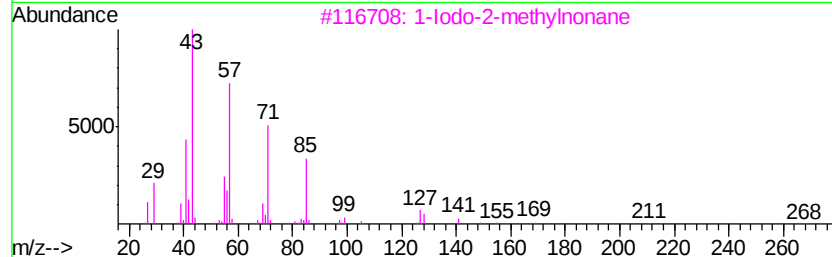
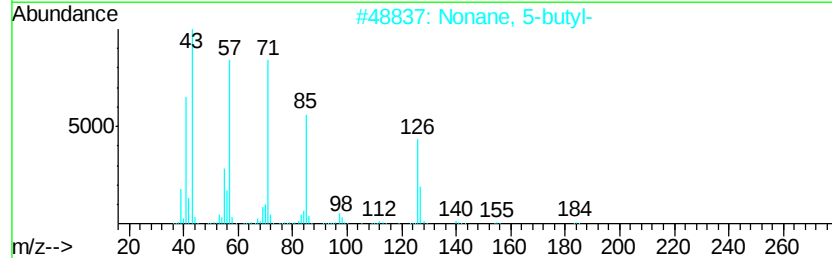
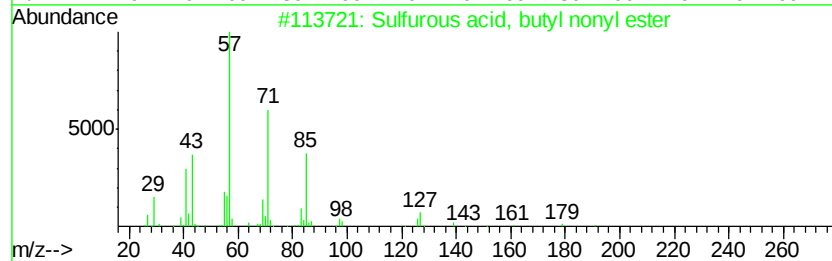
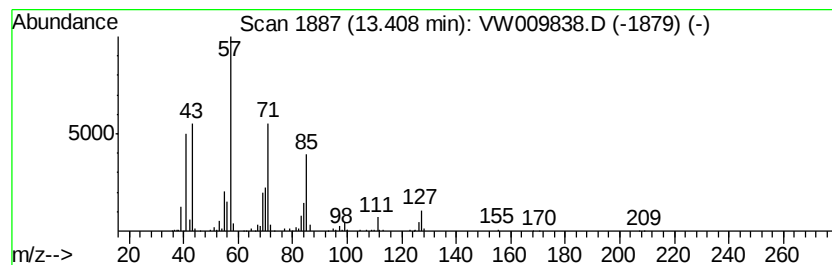
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

\*\*\*\*\*  
Peak Number 13 Sulfurous acid, butyl nonyl... Concentration Rank 2

| R.T.      | EstConc                           | Area   | Relative to ISTD       | R.T.         |      |
|-----------|-----------------------------------|--------|------------------------|--------------|------|
| 13.41     | 8.81 ug/L                         | 259901 | 1,4-Dichlorobenzene-d4 | 13.56        |      |
| Hit# of 5 | Tentative ID                      | MW     | MolForm                | CAS#         | Qual |
| 1         | Sulfurous acid, butyl nonyl ester | 264    | C13H28O3S              | 1000309-17-6 | 64   |
| 2         | Nonane, 5-butyl-                  | 184    | C13H28                 | 017312-63-9  | 53   |
| 3         | 1-Iodo-2-methylnonane             | 268    | C10H21I                | 1000101-47-9 | 53   |
| 4         | Undecane, 2-methyl-               | 170    | C12H26                 | 007045-71-8  | 52   |
| 5         | Undecane, 2,4-dimethyl-           | 184    | C13H28                 | 017312-80-0  | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

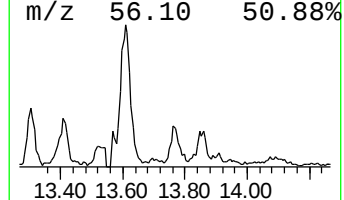
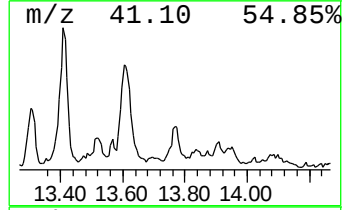
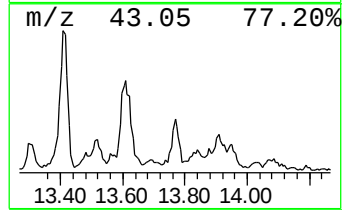
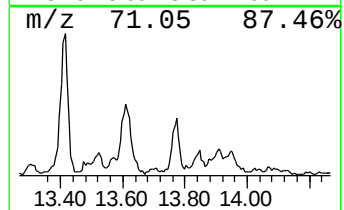
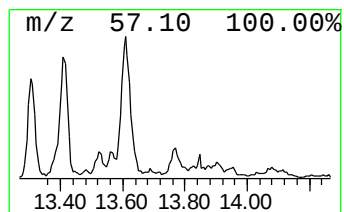
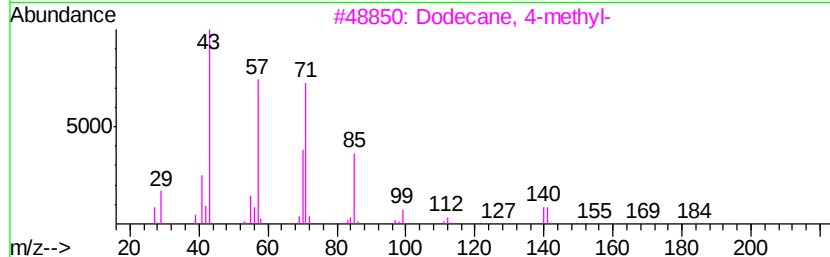
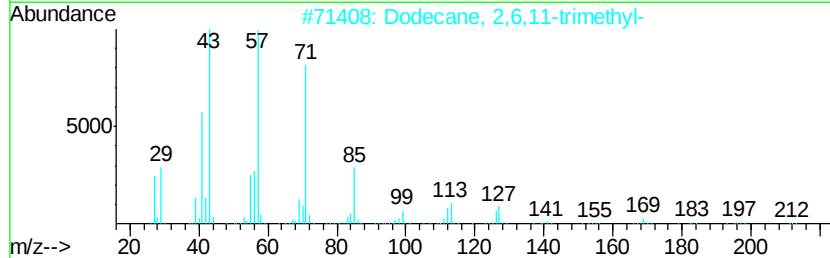
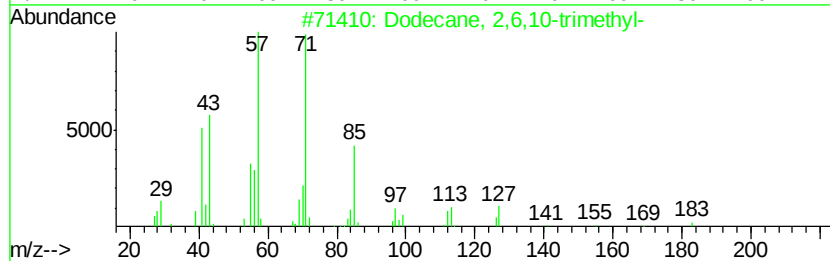
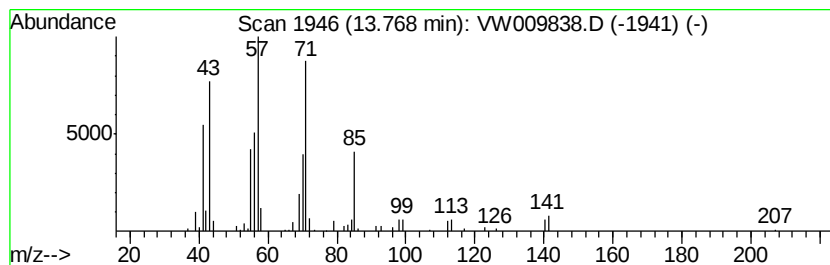
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.77 | 2.29 ug/L | 67420 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|---|------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Dodecane, 2,6,10-trimethyl-        | 212 | C15H32    | 003891-98-3  | 59   |
| 2    |    |   | Dodecane, 2,6,11-trimethyl-        | 212 | C15H32    | 031295-56-4  | 59   |
| 3    |    |   | Dodecane, 4-methyl-                | 184 | C13H28    | 006117-97-1  | 59   |
| 4    |    |   | Sulfurous acid, decyl pentyl ester | 292 | C15H32O3S | 1000309-14-3 | 50   |
| 5    |    |   | Undecane, 2,3-dimethyl-            | 184 | C13H28    | 017312-77-5  | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

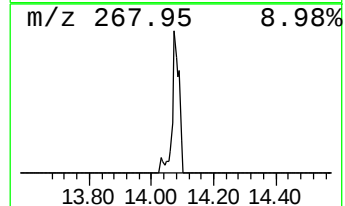
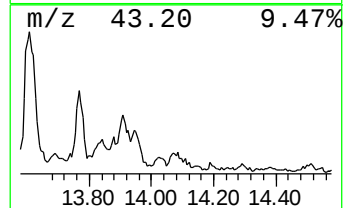
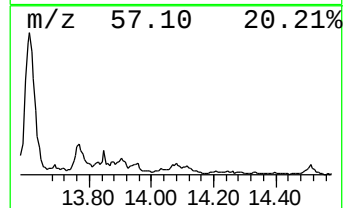
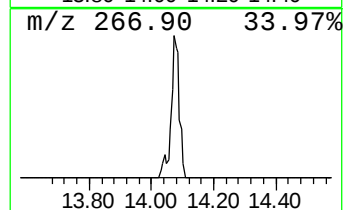
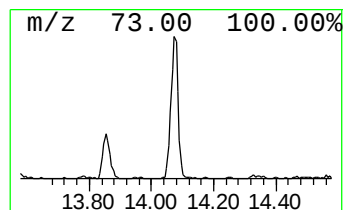
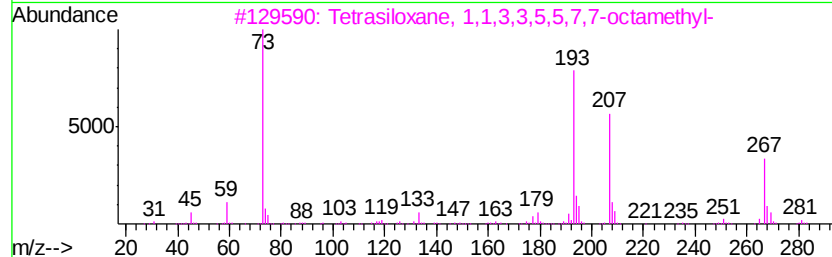
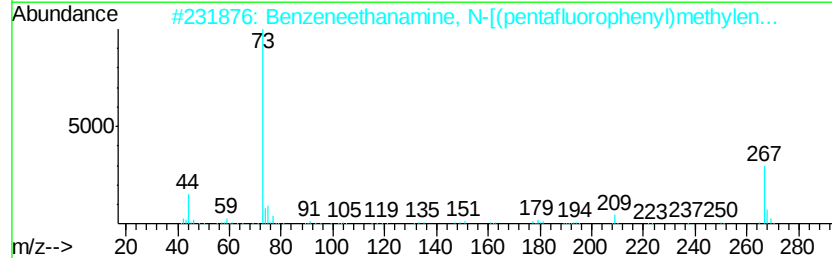
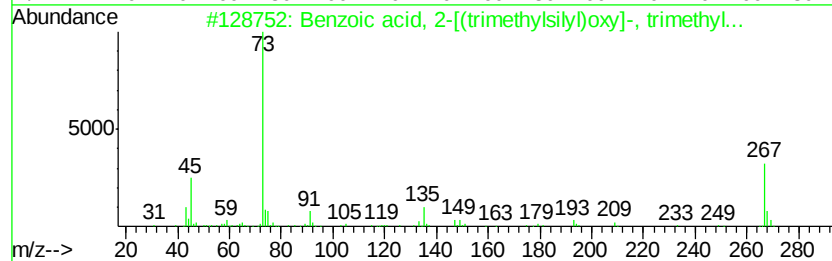
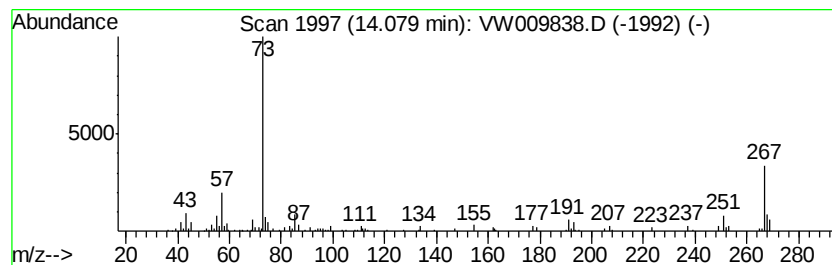
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

\*\*\*\*\*  
Peak Number 15 Benzoic acid, 2-[(trimethyl... Concentration Rank 9

| R.T.    | EstConc   | Area                                                 | Relative to ISTD       | R.T.          |             |      |
|---------|-----------|------------------------------------------------------|------------------------|---------------|-------------|------|
| 14.08   | 2.78 ug/L | 81864                                                | 1,4-Dichlorobenzene-d4 | 13.56         |             |      |
| Hit# of | 5         | Tentative ID                                         | MW                     | MolForm       | CAS#        | Qual |
| 1       |           | Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl... | 282                    | C13H22O3Si2   | 003789-85-3 | 59   |
| 2       |           | Benzenethanamine, N-[(pentafluorophenyl)methyl]...   | 475                    | C21H26F5N2Si2 | 055429-85-1 | 59   |
| 3       |           | Tetrasiloxane, 1,1,3,3,5,5,7,7-octamethyl-           | 282                    | C8H26O3Si4    | 001000-05-1 | 45   |
| 4       |           | Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl... | 282                    | C13H22O3Si2   | 003789-85-3 | 38   |
| 5       |           | Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl... | 282                    | C13H22O3Si2   | 003789-85-3 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009838.D  
Acq On : 09 Apr 2019 13:45  
Operator : SY/VA  
Sample : K2255-05RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFC47RE

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

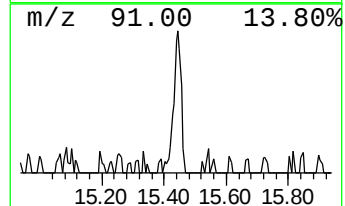
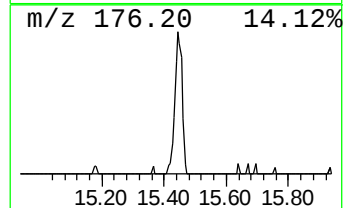
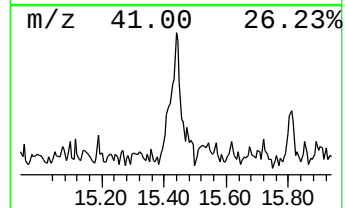
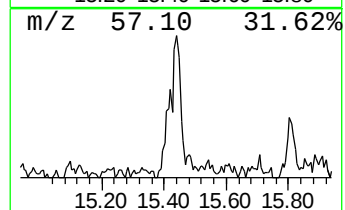
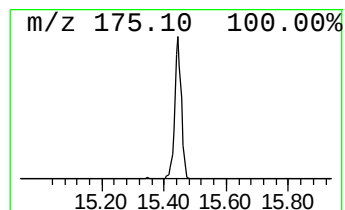
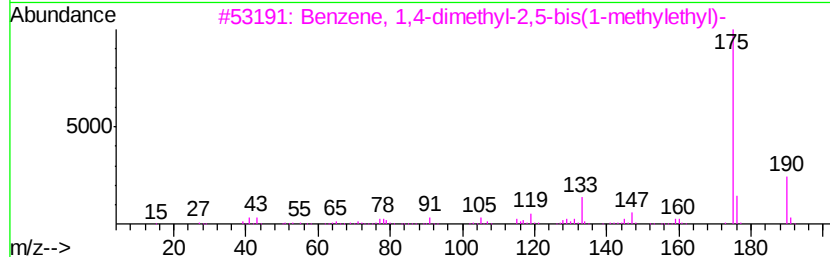
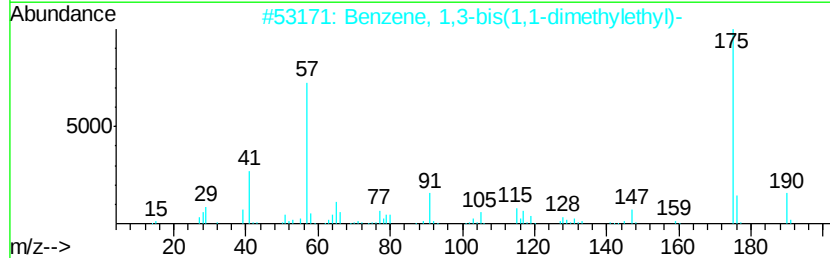
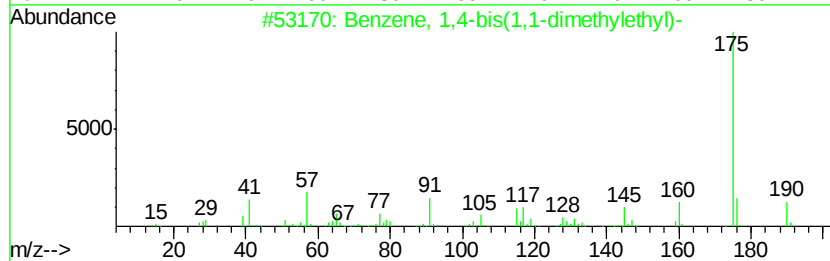
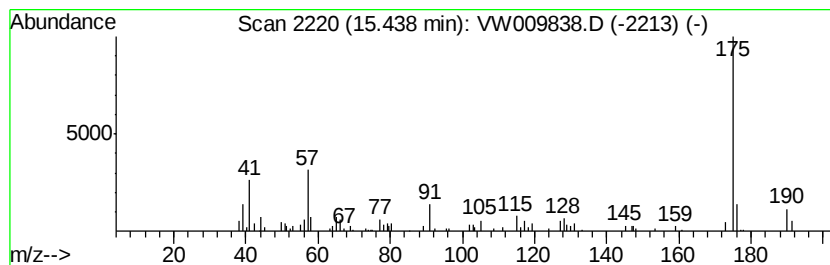
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, 1,4-bis(1,1-dimeth... Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.44 | 1.69 ug/L | 49988 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Benzene, 1,4-bis(1,1-dimethyleth... | 190 | C14H22     | 001012-72-2  | 87   |
| 2    |    |   | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22     | 001014-60-4  | 83   |
| 3    |    |   | Benzene, 1,4-dimethyl-2,5-bis(1-... | 190 | C14H22     | 010375-96-9  | 72   |
| 4    |    |   | Benzene, 1,4-bis(1,1-dimethyleth... | 190 | C14H22     | 001012-72-2  | 64   |
| 5    |    |   | 1,2,5-Oxadiazole-3-carboxamide, ... | 345 | C15H19N7O3 | 1000316-28-8 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW040819\  
 Data File : VW009838.D  
 Acq On : 09 Apr 2019 13:45  
 Operator : SY/VA  
 Sample : K2255-05RE  
 Misc : 2.81G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFC47RE

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 |
| (DEL) Alkane: Str... | 5.93  | 1.5     | ug/L  | 60983    | 1                     | 8.84  | 1013100 | 25.0 |
| n-Butyl ether        | 11.71 | 1.4     | ug/L  | 60318    | 2                     | 11.63 | 1099980 | 25.0 |
| (DEL) Alkane: Str... | 12.24 | 1.3     | ug/L  | 55886    | 2                     | 11.63 | 1099980 | 25.0 |
| (DEL) Alkane: Str... | 12.59 | 12.4    | ug/L  | 547120   | 2                     | 11.63 | 1099980 | 25.0 |
| (DEL) Alkane: Str... | 12.76 | 6.7     | ug/L  | 196038   | 3                     | 13.56 | 737354  | 25.0 |
| Sulfurous acid, 2... | 12.96 | 5.0     | ug/L  | 146986   | 3                     | 13.56 | 737354  | 25.0 |
| Sulfurous acid, d... | 13.01 | 1.4     | ug/L  | 40351    | 3                     | 13.56 | 737354  | 25.0 |
| .alpha.-Methylsty... | 13.12 | 4.3     | ug/L  | 125763   | 3                     | 13.56 | 737354  | 25.0 |
| (DEL) Alkane: Str... | 13.19 | 8.5     | ug/L  | 250631   | 3                     | 13.56 | 737354  | 25.0 |
| unknown-01           | 13.30 | 3.3     | ug/L  | 98034    | 3                     | 13.56 | 737354  | 25.0 |
| Sulfurous acid, b... | 13.41 | 8.8     | ug/L  | 259901   | 3                     | 13.56 | 737354  | 25.0 |
| (DEL) Alkane: Str... | 13.77 | 2.3     | ug/L  | 67420    | 3                     | 13.56 | 737354  | 25.0 |
| Benzoic acid, 2-[... | 14.08 | 2.8     | ug/L  | 81864    | 3                     | 13.56 | 737354  | 25.0 |
| Benzene, 1,4-bis(... | 15.44 | 1.7     | ug/L  | 49988    | 3                     | 13.56 | 737354  | 25.0 |