

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
 Data File : VW009361.D  
 Acq On : 22 Mar 2019 23:21  
 Operator : SY/VA  
 Sample : K2031-01  
 Misc : 5.48G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5S1

## 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\SOM2WLM031419S.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       | 38            | 42          | 45           | rVV2     | 6910           | 12819         | 1.16%           | 0.116%        |
| 2         | 2.355       | 69            | 74          | 83           | rBV      | 61050          | 135508        | 12.22%          | 1.227%        |
| 3         | 2.891       | 156           | 162         | 173          | rVB      | 69965          | 177173        | 15.98%          | 1.605%        |
| 4         | 4.019       | 335           | 347         | 360          | rBV2     | 102673         | 351716        | 31.72%          | 3.186%        |
| 5         | 4.531       | 427           | 431         | 434          | rVV2     | 2301           | 3691          | 0.33%           | 0.033%        |
| 6         | 4.672       | 449           | 454         | 455          | rBV2     | 1966           | 2772          | 0.25%           | 0.025%        |
| 7         | 4.787       | 469           | 473         | 476          | rVV2     | 1790           | 3353          | 0.30%           | 0.030%        |
| 8         | 4.915       | 483           | 494         | 515          | rBV5     | 34632          | 160442        | 14.47%          | 1.453%        |
| 9         | 5.446       | 579           | 581         | 585          | rVB      | 2051           | 2873          | 0.26%           | 0.026%        |
| 10        | 5.562       | 595           | 600         | 601          | rBV2     | 2095           | 3132          | 0.28%           | 0.028%        |
| 11        | 5.659       | 614           | 616         | 619          | rBV      | 1960           | 2783          | 0.25%           | 0.025%        |
| 12        | 5.769       | 632           | 634         | 638          | rBV3     | 2393           | 2736          | 0.25%           | 0.025%        |
| 13        | 5.927       | 651           | 660         | 670          | rVV4     | 9767           | 30507         | 2.75%           | 0.276%        |
| 14        | 6.031       | 673           | 677         | 679          | rVV4     | 1391           | 2567          | 0.23%           | 0.023%        |
| 15        | 6.104       | 688           | 689         | 693          | rBV3     | 2385           | 2609          | 0.24%           | 0.024%        |
| 16        | 6.238       | 709           | 711         | 716          | rBV3     | 1601           | 2701          | 0.24%           | 0.024%        |
| 17        | 6.299       | 716           | 721         | 722          | rVB2     | 2505           | 3373          | 0.30%           | 0.031%        |
| 18        | 6.897       | 813           | 819         | 822          | rBV4     | 6935           | 14103         | 1.27%           | 0.128%        |
| 19        | 7.080       | 838           | 849         | 860          | rBV2     | 55094          | 155091        | 13.99%          | 1.405%        |
| 20        | 7.647       | 932           | 942         | 953          | rVB      | 216357         | 514647        | 46.41%          | 4.661%        |
| 21        | 7.933       | 982           | 989         | 990          | rBV5     | 3539           | 5441          | 0.49%           | 0.049%        |
| 22        | 8.147       | 1019          | 1024        | 1029         | rBV5     | 3251           | 7388          | 0.67%           | 0.067%        |
| 23        | 8.275       | 1035          | 1045        | 1063         | rBV2     | 341537         | 1108797       | 100.00%         | 10.043%       |
| 24        | 8.689       | 1108          | 1113        | 1115         | rBV4     | 6066           | 10692         | 0.96%           | 0.097%        |
| 25        | 8.842       | 1127          | 1138        | 1150         | rBV      | 372568         | 744848        | 67.18%          | 6.746%        |
| 26        | 8.927       | 1150          | 1152        | 1158         | rVB      | 2554           | 3593          | 0.32%           | 0.033%        |
| 27        | 9.037       | 1167          | 1170        | 1172         | rBV2     | 2724           | 3309          | 0.30%           | 0.030%        |
| 28        | 9.134       | 1185          | 1186        | 1192         | rVB3     | 2118           | 2526          | 0.23%           | 0.023%        |
| 29        | 9.274       | 1200          | 1209        | 1215         | rBV      | 265075         | 538380        | 48.56%          | 4.876%        |
| 30        | 9.329       | 1215          | 1218        | 1224         | rVV4     | 20109          | 39816         | 3.59%           | 0.361%        |
| 31        | 9.409       | 1227          | 1231        | 1239         | rVB5     | 6064           | 9855          | 0.89%           | 0.089%        |
| 32        | 9.500       | 1243          | 1246        | 1248         | rBV2     | 2446           | 2976          | 0.27%           | 0.027%        |
| 33        | 9.579       | 1257          | 1259        | 1261         | rBV2     | 2106           | 2819          | 0.25%           | 0.026%        |
| 34        | 9.610       | 1261          | 1264        | 1269         | rVB5     | 3015           | 4863          | 0.44%           | 0.044%        |

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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\SOM2WLM031419S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 9.665  | 1269 | 1273 | 1275 | rBV3 | 3177   | 4170   | 0.38%  | 0.038% |
| 36 | 9.957  | 1316 | 1321 | 1327 | rBV4 | 12266  | 24339  | 2.20%  | 0.220% |
| 37 | 10.030 | 1327 | 1333 | 1340 | rVV  | 121970 | 220235 | 19.86% | 1.995% |
| 38 | 10.207 | 1358 | 1362 | 1363 | rBV3 | 2772   | 3053   | 0.28%  | 0.028% |
| 39 | 10.238 | 1366 | 1367 | 1372 | rVB4 | 2020   | 2670   | 0.24%  | 0.024% |
| 40 | 10.323 | 1372 | 1381 | 1387 | rBV  | 360975 | 636439 | 57.40% | 5.765% |
| 41 | 10.384 | 1387 | 1391 | 1396 | rVV2 | 35592  | 67602  | 6.10%  | 0.612% |
| 42 | 10.427 | 1396 | 1398 | 1402 | rVV4 | 4855   | 7860   | 0.71%  | 0.071% |
| 43 | 10.506 | 1404 | 1411 | 1416 | rVB3 | 36287  | 69683  | 6.28%  | 0.631% |
| 44 | 10.573 | 1416 | 1422 | 1432 | rBV  | 87084  | 162757 | 14.68% | 1.474% |
| 45 | 10.658 | 1434 | 1436 | 1442 | rVV5 | 8464   | 14424  | 1.30%  | 0.131% |
| 46 | 10.707 | 1442 | 1444 | 1448 | rVB4 | 3834   | 3952   | 0.36%  | 0.036% |
| 47 | 10.750 | 1448 | 1451 | 1458 | rBV6 | 5920   | 13216  | 1.19%  | 0.120% |
| 48 | 10.847 | 1463 | 1467 | 1468 | rBV3 | 6984   | 9863   | 0.89%  | 0.089% |
| 49 | 10.927 | 1473 | 1480 | 1492 | rBV  | 210499 | 365320 | 32.95% | 3.309% |
| 50 | 11.036 | 1494 | 1498 | 1500 | rBV3 | 8158   | 11829  | 1.07%  | 0.107% |
| 51 | 11.177 | 1515 | 1521 | 1526 | rBV3 | 19637  | 34711  | 3.13%  | 0.314% |
| 52 | 11.225 | 1526 | 1529 | 1536 | rVB2 | 21040  | 35064  | 3.16%  | 0.318% |
| 53 | 11.280 | 1536 | 1538 | 1542 | rVB3 | 3354   | 3933   | 0.35%  | 0.036% |
| 54 | 11.341 | 1542 | 1548 | 1552 | rBV4 | 14832  | 24660  | 2.22%  | 0.223% |
| 55 | 11.408 | 1554 | 1559 | 1567 | rVB5 | 38825  | 80049  | 7.22%  | 0.725% |
| 56 | 11.512 | 1571 | 1576 | 1581 | rBV  | 36953  | 57958  | 5.23%  | 0.525% |
| 57 | 11.634 | 1589 | 1596 | 1606 | rVB  | 347136 | 598722 | 54.00% | 5.423% |
| 58 | 11.731 | 1606 | 1612 | 1619 | rBV  | 53285  | 91807  | 8.28%  | 0.832% |
| 59 | 11.841 | 1619 | 1630 | 1639 | rBV2 | 303883 | 586959 | 52.94% | 5.316% |
| 60 | 12.060 | 1663 | 1666 | 1670 | rVB5 | 3538   | 4838   | 0.44%  | 0.044% |
| 61 | 12.164 | 1674 | 1683 | 1691 | rBV  | 162709 | 290049 | 26.16% | 2.627% |
| 62 | 12.256 | 1693 | 1698 | 1702 | rVB3 | 25878  | 40888  | 3.69%  | 0.370% |
| 63 | 12.298 | 1702 | 1705 | 1706 | rBV2 | 3837   | 4087   | 0.37%  | 0.037% |
| 64 | 12.341 | 1707 | 1712 | 1715 | rBV6 | 14274  | 24933  | 2.25%  | 0.226% |
| 65 | 12.463 | 1728 | 1732 | 1737 | rBV  | 30325  | 46295  | 4.18%  | 0.419% |
| 66 | 12.542 | 1742 | 1745 | 1748 | rBV4 | 8331   | 10577  | 0.95%  | 0.096% |
| 67 | 12.615 | 1753 | 1757 | 1760 | rVV2 | 9447   | 15861  | 1.43%  | 0.144% |
| 68 | 12.652 | 1761 | 1763 | 1764 | rVV  | 12049  | 9823   | 0.89%  | 0.089% |
| 69 | 12.695 | 1765 | 1770 | 1777 | rVB  | 162233 | 270187 | 24.37% | 2.447% |
| 70 | 12.804 | 1783 | 1788 | 1793 | rVB  | 44010  | 71896  | 6.48%  | 0.651% |
| 71 | 12.871 | 1793 | 1799 | 1802 | rBV  | 146928 | 243378 | 21.95% | 2.204% |

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## Integration Parameters: LSCINT.P

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 Smoothing : OFF  
 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\SOM2WLM031419S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 12.902 | 1802 | 1804 | 1806 | rVV  | 75735  | 91234  | 8.23%  | 0.826% |
| 73  | 12.938 | 1806 | 1810 | 1817 | rVB2 | 196324 | 364508 | 32.87% | 3.302% |
| 74  | 13.103 | 1832 | 1837 | 1844 | rVB  | 69581  | 115987 | 10.46% | 1.051% |
| 75  | 13.170 | 1844 | 1848 | 1854 | rVB5 | 23218  | 34769  | 3.14%  | 0.315% |
| 76  | 13.255 | 1855 | 1862 | 1868 | rBV  | 435371 | 669887 | 60.42% | 6.067% |
| 77  | 13.347 | 1875 | 1877 | 1879 | rBV3 | 5310   | 6187   | 0.56%  | 0.056% |
| 78  | 13.444 | 1889 | 1893 | 1897 | rBV3 | 20086  | 28713  | 2.59%  | 0.260% |
| 79  | 13.493 | 1898 | 1901 | 1907 | rBV4 | 13659  | 22973  | 2.07%  | 0.208% |
| 80  | 13.560 | 1907 | 1912 | 1915 | rBV  | 199562 | 350938 | 31.65% | 3.179% |
| 81  | 13.725 | 1935 | 1939 | 1940 | rBV4 | 11218  | 15583  | 1.41%  | 0.141% |
| 82  | 13.755 | 1940 | 1944 | 1947 | rVV3 | 56255  | 91239  | 8.23%  | 0.826% |
| 83  | 13.792 | 1947 | 1950 | 1955 | rVV2 | 43860  | 76447  | 6.89%  | 0.692% |
| 84  | 13.859 | 1955 | 1961 | 1973 | rVB2 | 159562 | 376821 | 33.98% | 3.413% |
| 85  | 13.950 | 1973 | 1976 | 1982 | rVB2 | 19642  | 26623  | 2.40%  | 0.241% |
| 86  | 14.011 | 1983 | 1986 | 1988 | rBV2 | 17843  | 23005  | 2.07%  | 0.208% |
| 87  | 14.097 | 1997 | 2000 | 2005 | rVB  | 47530  | 72713  | 6.56%  | 0.659% |
| 88  | 14.213 | 2014 | 2019 | 2025 | rVB5 | 20128  | 36931  | 3.33%  | 0.335% |
| 89  | 14.341 | 2033 | 2040 | 2046 | rBV6 | 17973  | 43728  | 3.94%  | 0.396% |
| 90  | 14.426 | 2051 | 2054 | 2057 | rVV4 | 27629  | 45965  | 4.15%  | 0.416% |
| 91  | 14.456 | 2057 | 2059 | 2064 | rVV  | 28545  | 42633  | 3.84%  | 0.386% |
| 92  | 14.505 | 2064 | 2067 | 2070 | rVB4 | 9924   | 12855  | 1.16%  | 0.116% |
| 93  | 14.633 | 2084 | 2088 | 2094 | rVB6 | 15008  | 28401  | 2.56%  | 0.257% |
| 94  | 14.688 | 2094 | 2097 | 2098 | rBV2 | 9891   | 9338   | 0.84%  | 0.085% |
| 95  | 14.731 | 2100 | 2104 | 2110 | rVB3 | 38534  | 62597  | 5.65%  | 0.567% |
| 96  | 14.798 | 2110 | 2115 | 2121 | rBV2 | 32482  | 76788  | 6.93%  | 0.696% |
| 97  | 15.023 | 2148 | 2152 | 2154 | rBV5 | 4402   | 6599   | 0.60%  | 0.060% |
| 98  | 15.371 | 2205 | 2209 | 2214 | rVB3 | 18239  | 29951  | 2.70%  | 0.271% |
| 99  | 15.566 | 2237 | 2241 | 2249 | rVB2 | 23272  | 40551  | 3.66%  | 0.367% |
| 100 | 16.712 | 2427 | 2429 | 2431 | rVB3 | 3041   | 2678   | 0.24%  | 0.024% |

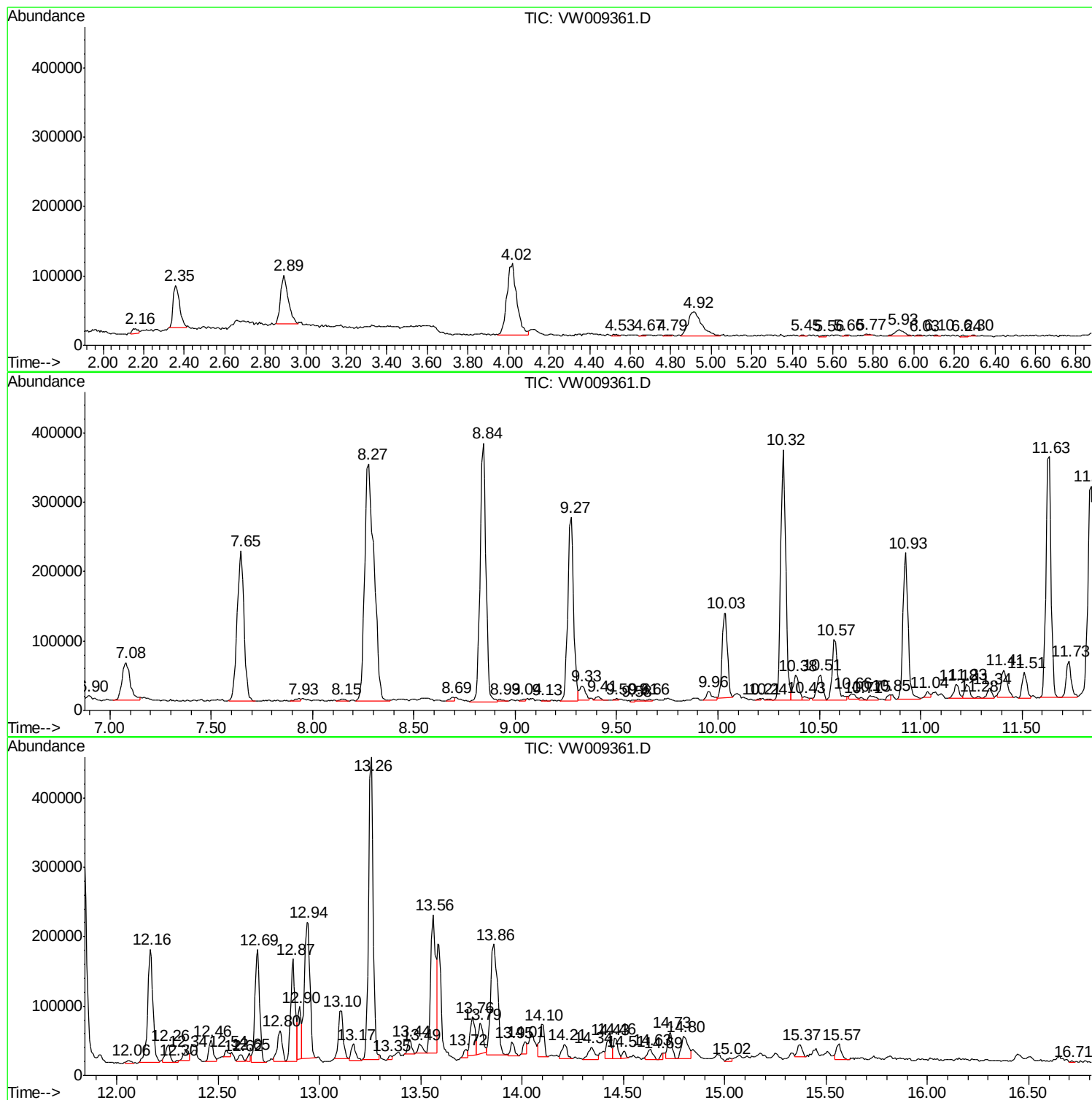
Sum of corrected areas: 11040628

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
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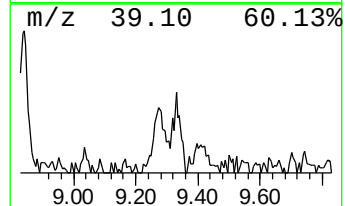
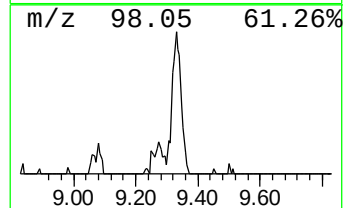
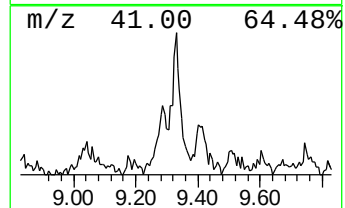
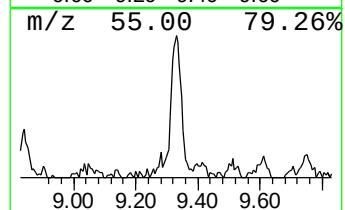
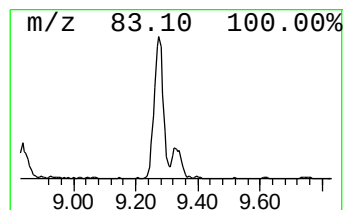
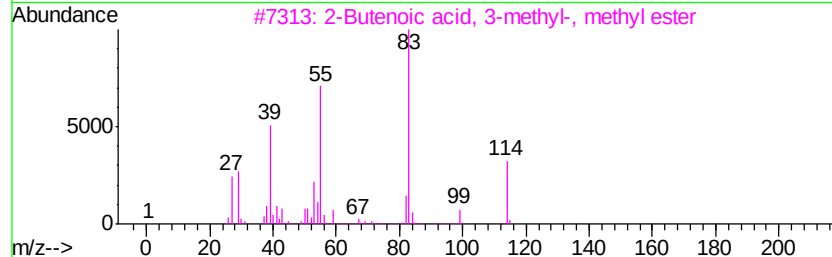
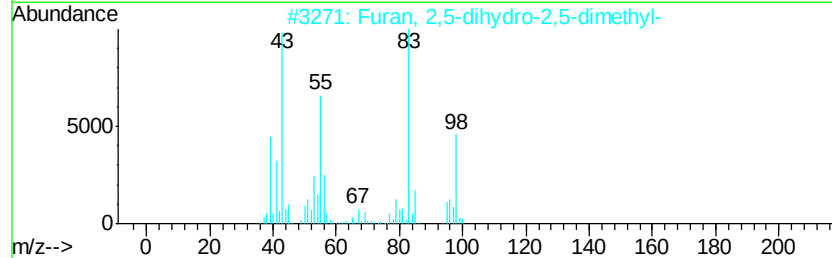
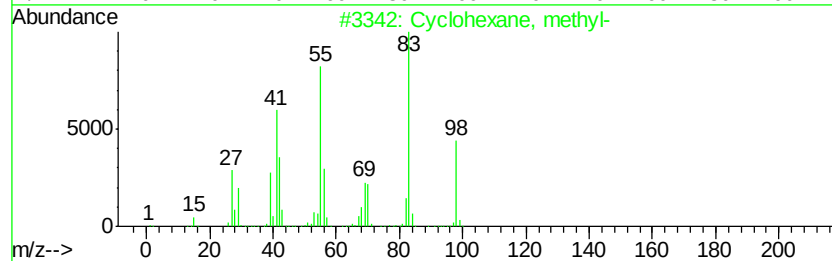
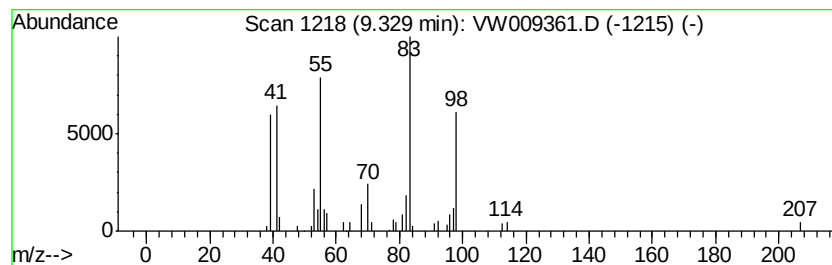
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Cyclic9.33 Concentration Rank 31

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 9.33 | 1.34 ug/L | 39816 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                             | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, methyl-                     | 98  | C7H14   | 000108-87-2 | 52   |
| 2    |    | Furan, 2,5-dihydro-2,5-dimethyl-         | 98  | C6H10O  | 059242-27-2 | 50   |
| 3    |    | 2-Butenoic acid, 3-methyl-, methyl ester | 114 | C6H10O2 | 000924-50-5 | 50   |
| 4    |    | 1-Butene, 2,3,3-trimethyl-               | 98  | C7H14   | 000594-56-9 | 50   |
| 5    |    | Cyclohexane, methyl-                     | 98  | C7H14   | 000108-87-2 | 46   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

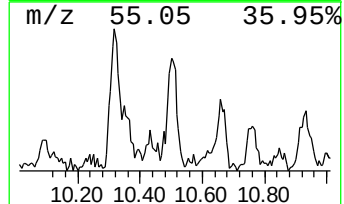
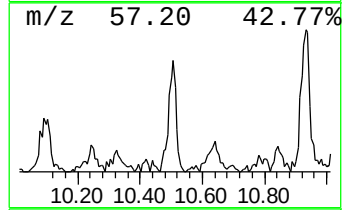
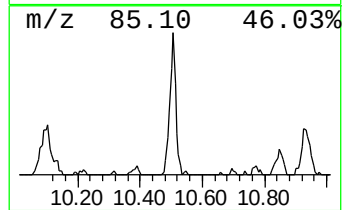
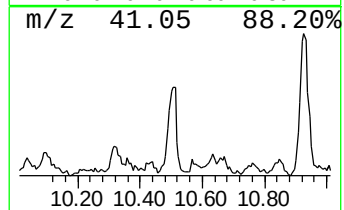
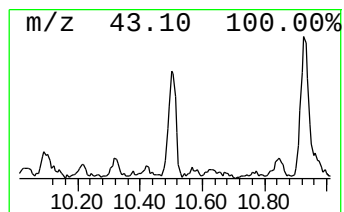
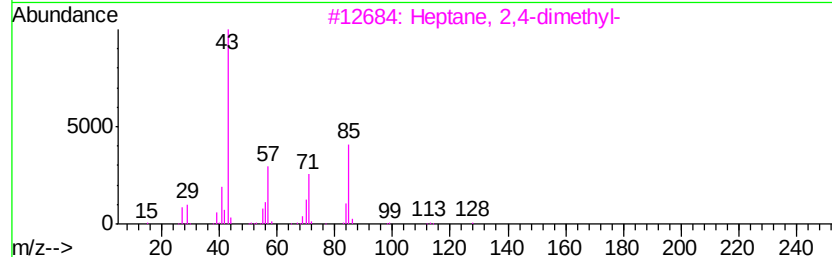
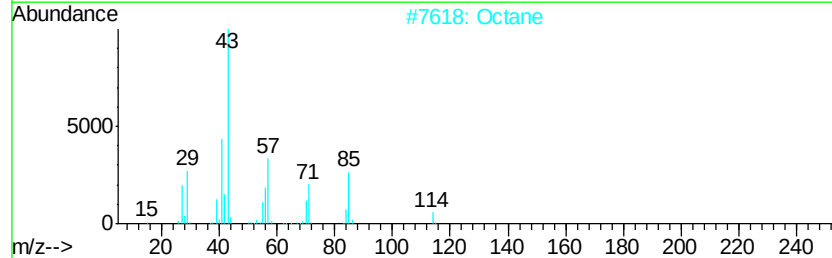
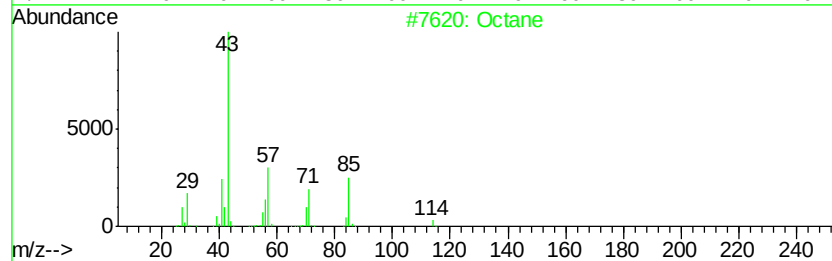
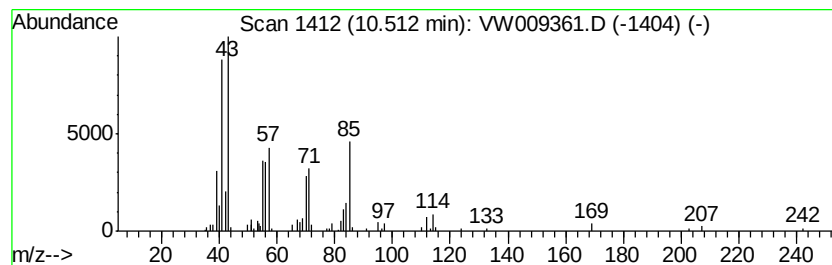
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 10.51 | 2.91 ug/L | 69683 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Octane                              | 114 | C8H18     | 000111-65-9  | 72   |
| 2    |    | Octane                              | 114 | C8H18     | 000111-65-9  | 59   |
| 3    |    | Heptane, 2,4-dimethyl-              | 128 | C9H20     | 002213-23-2  | 50   |
| 4    |    | Hexane, 2,3,5-trimethyl-            | 128 | C9H20     | 001069-53-0  | 50   |
| 5    |    | 3-Pentanone,2-nitro-4-methyl-1-(... | 245 | C11H19NO5 | 1000196-84-1 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

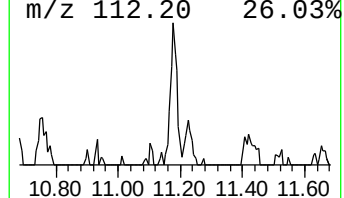
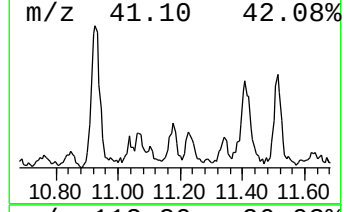
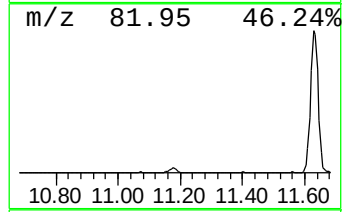
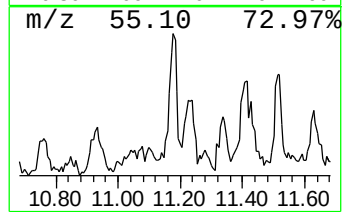
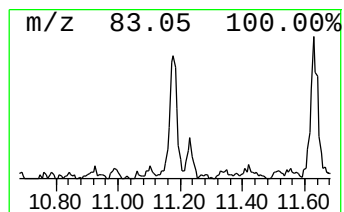
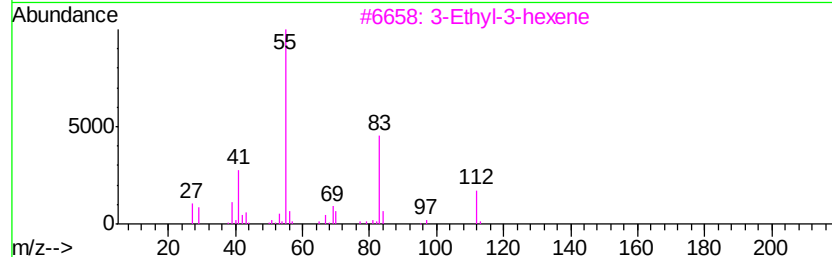
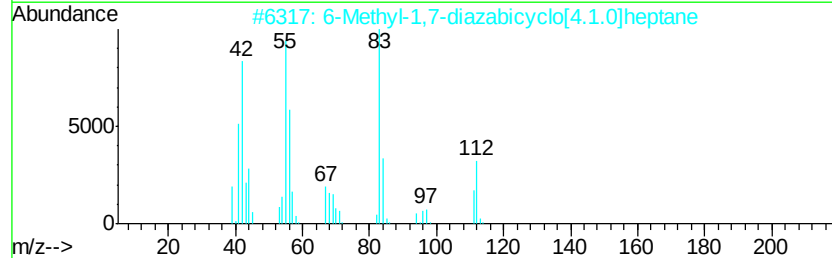
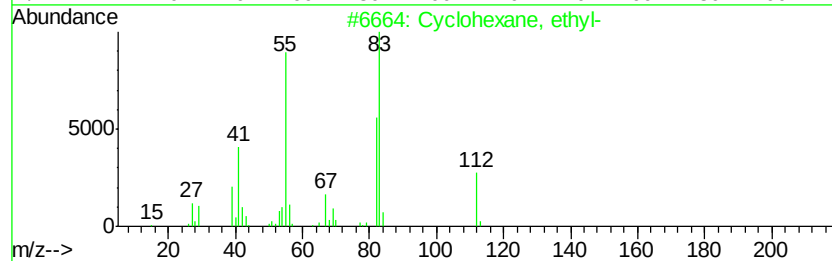
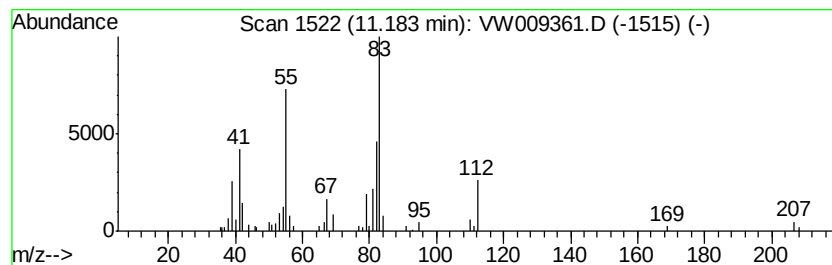
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Cyclic11.18 Concentration Rank 30

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.18 | 1.45 ug/L | 34711 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, ethyl-                 | 112 | C8H16   | 001678-91-7 | 83   |
| 2    |    | 6-Methyl-1,7-diazabicyclo[4.1.0]... | 112 | C6H12N2 | 108602-71-7 | 50   |
| 3    |    | 3-Ethyl-3-hexene                    | 112 | C8H16   | 016789-51-8 | 50   |
| 4    |    | 3-Ethylcyclopentanone               | 112 | C7H12O  | 010264-55-8 | 49   |
| 5    |    | trans-3,4-Dimethyl-2-hexene         | 112 | C8H16   | 019550-82-4 | 47   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

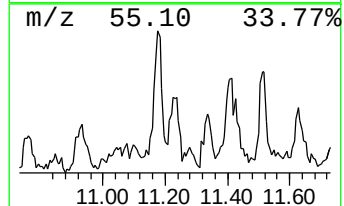
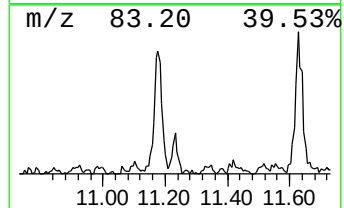
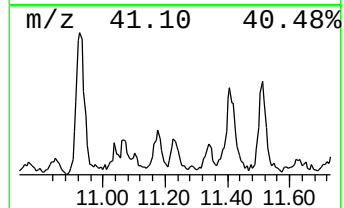
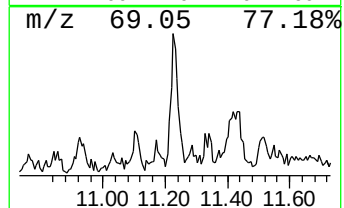
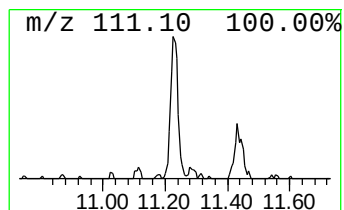
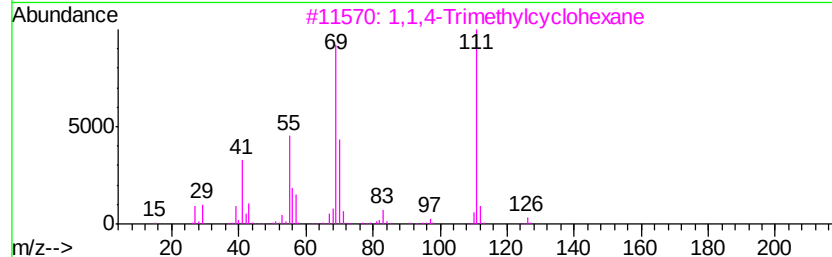
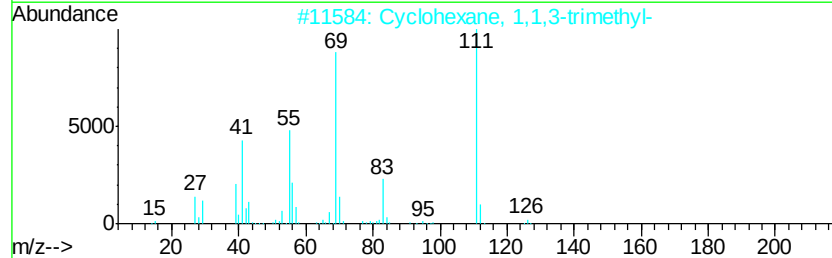
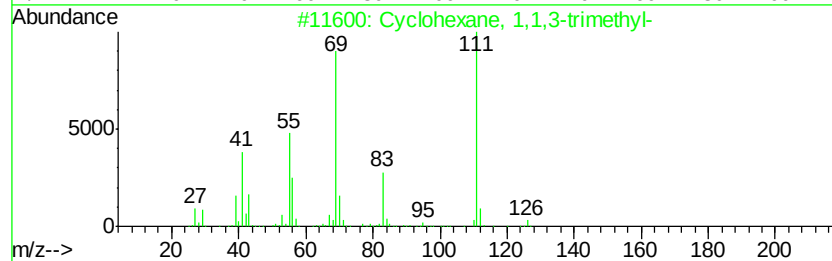
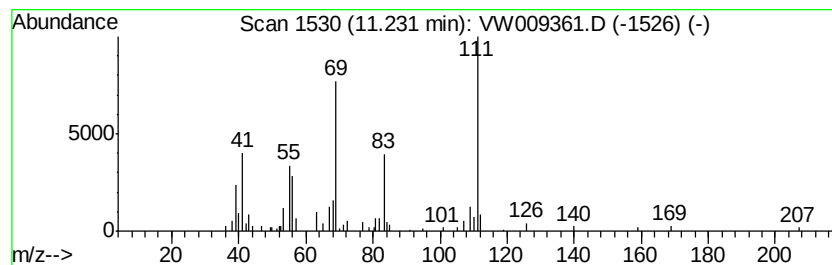
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Cyclic11.23 Concentration Rank 29

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.23 | 1.46 ug/L | 35064 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3 | 90   |
| 2    |    | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3 | 72   |
| 3    |    | 1,1,4-Trimethylcyclohexane           | 126 | C9H18   | 007094-27-1 | 72   |
| 4    |    | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18   | 001795-26-2 | 64   |
| 5    |    | 1,1,4-Trimethylcyclohexane           | 126 | C9H18   | 007094-27-1 | 64   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

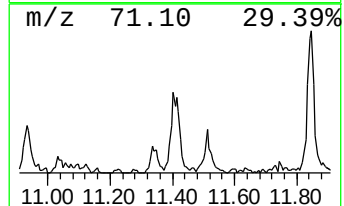
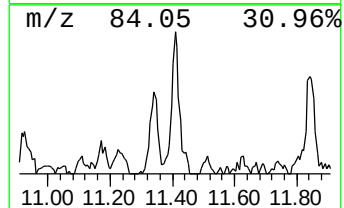
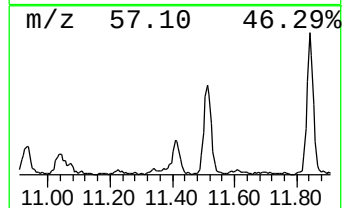
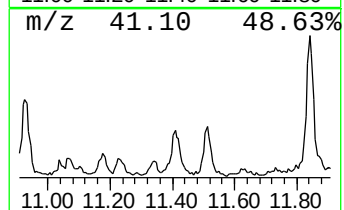
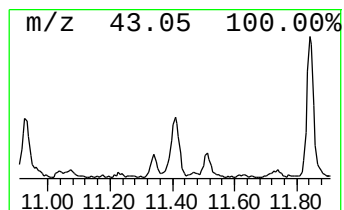
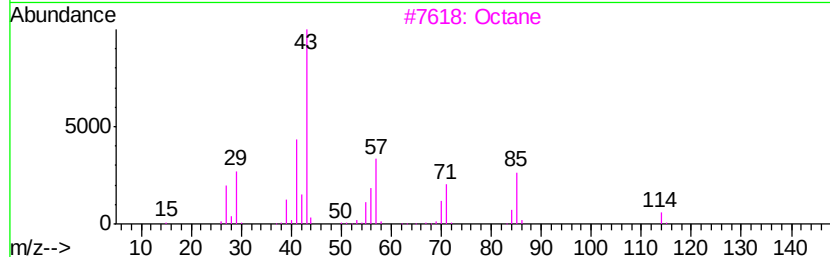
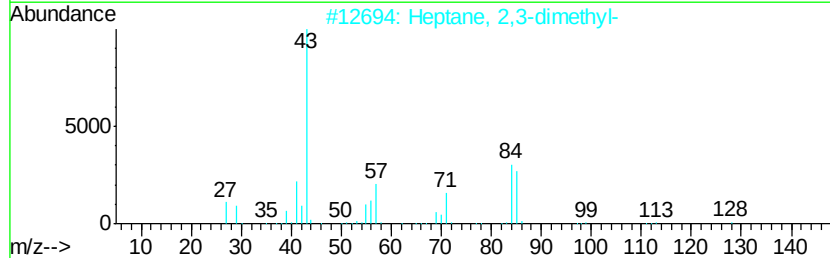
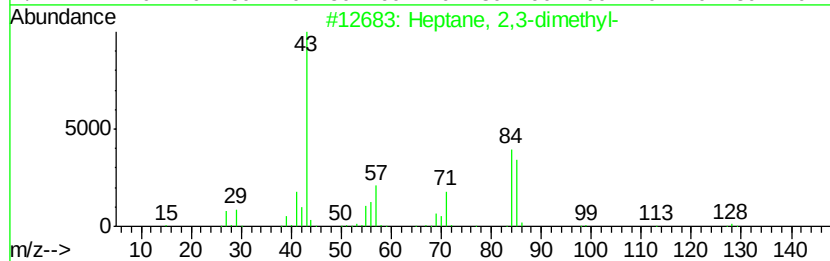
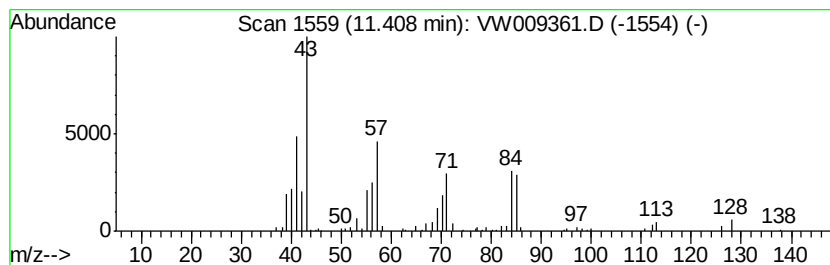
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.41 | 3.34 ug/L | 80049 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Heptane, 2,3-dimethyl-             | 128 | C9H20    | 003074-71-3  | 53   |
| 2    |    | Heptane, 2,3-dimethyl-             | 128 | C9H20    | 003074-71-3  | 53   |
| 3    |    | Octane                             | 114 | C8H18    | 000111-65-9  | 50   |
| 4    |    | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 50   |
| 5    |    | Octane                             | 114 | C8H18    | 000111-65-9  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

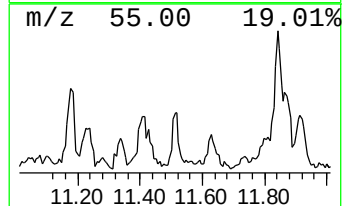
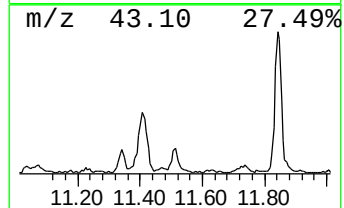
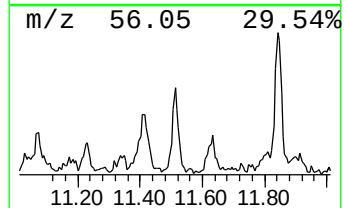
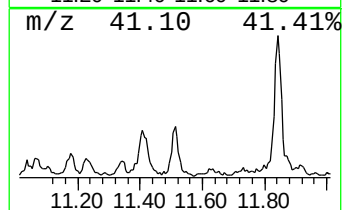
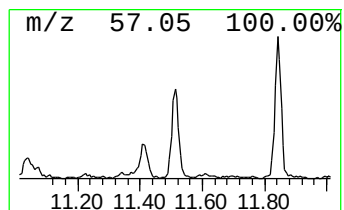
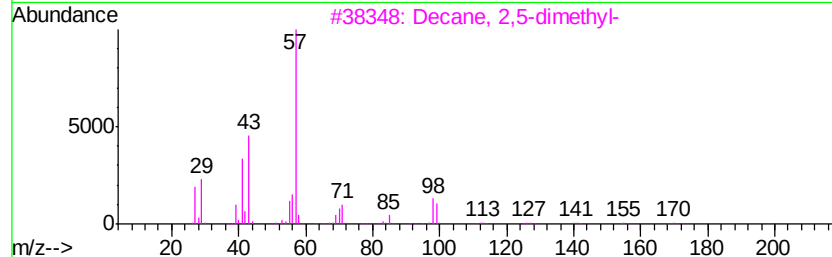
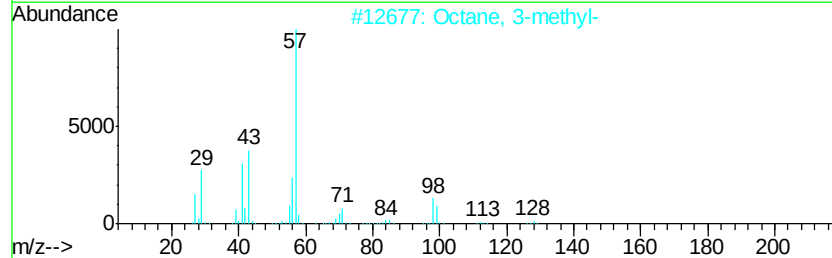
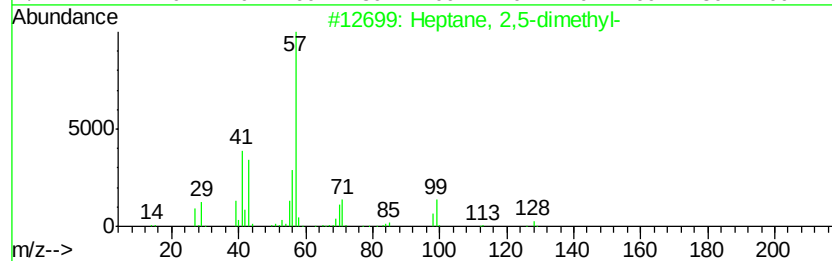
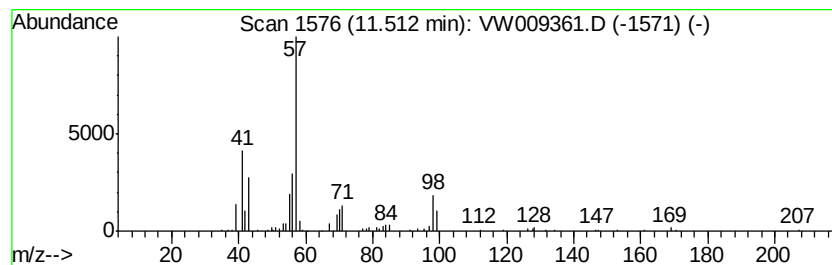
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.51 | 2.42 ug/L | 57958 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Heptane, 2,5-dimethyl-    | 128 | C9H20    | 002216-30-0 | 87   |
| 2    |    | Octane, 3-methyl-         | 128 | C9H20    | 002216-33-3 | 83   |
| 3    |    | Decane, 2,5-dimethyl-     | 170 | C12H26   | 017312-50-4 | 59   |
| 4    |    | Heptyl isobutyl carbonate | 216 | C12H24O3 | 959068-08-7 | 59   |
| 5    |    | Octane, 3-methyl-         | 128 | C9H20    | 002216-33-3 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

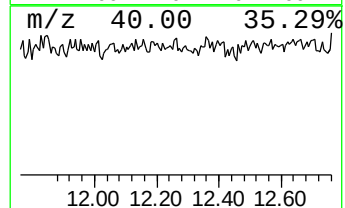
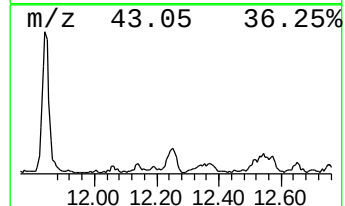
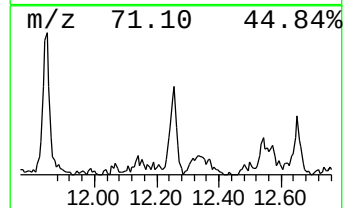
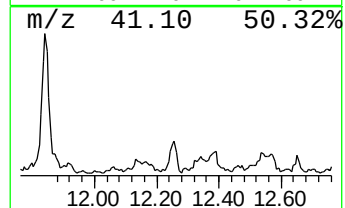
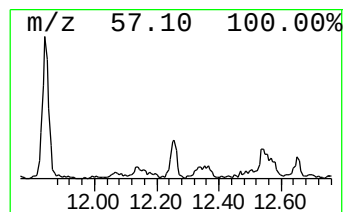
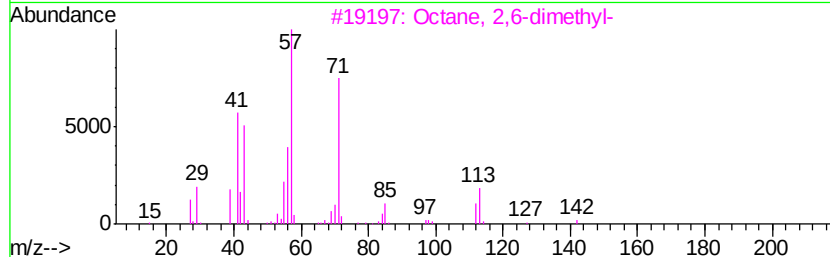
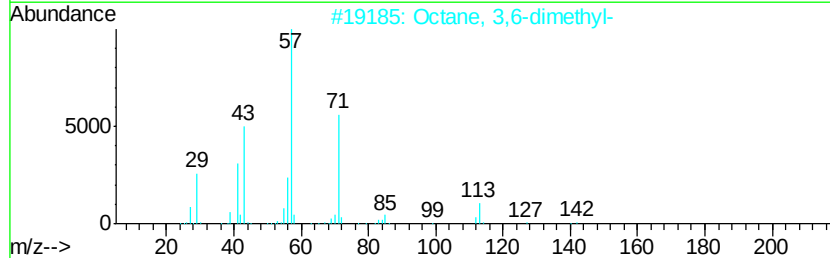
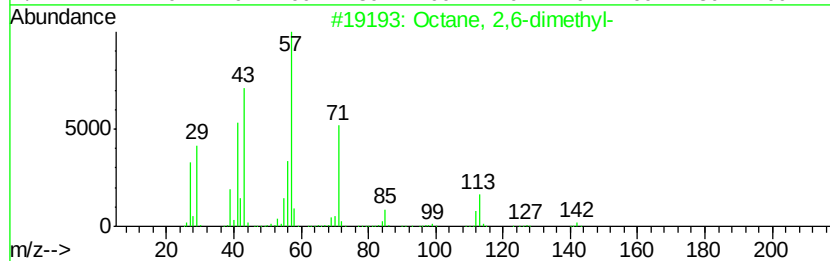
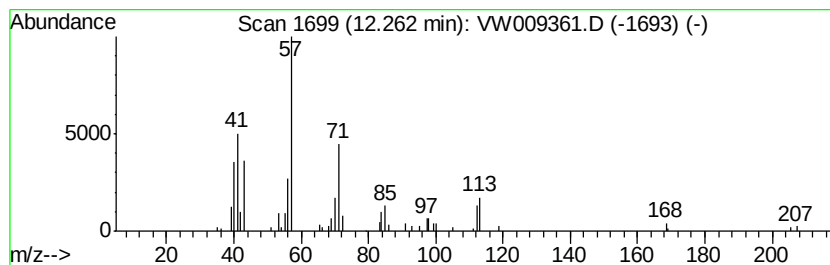
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.26 | 1.71 ug/L | 40888 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 74   |
| 2    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 72   |
| 3    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 62   |
| 4    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 59   |
| 5    |    | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

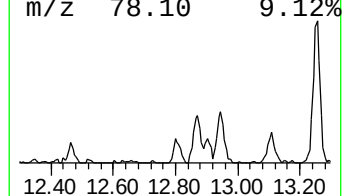
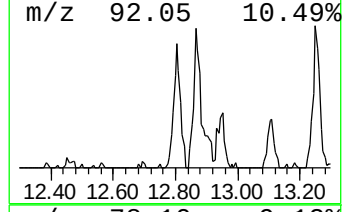
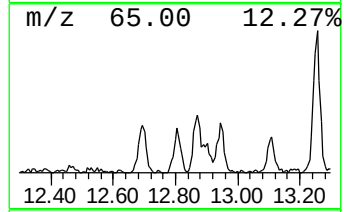
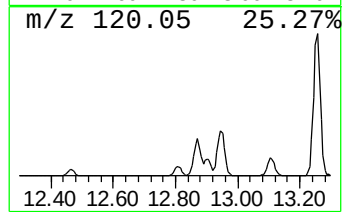
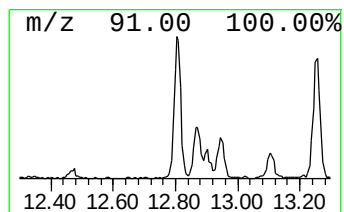
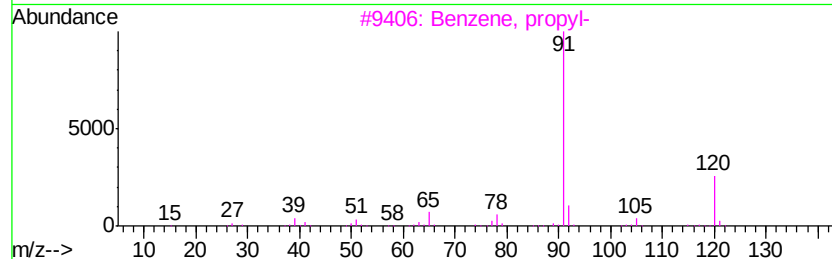
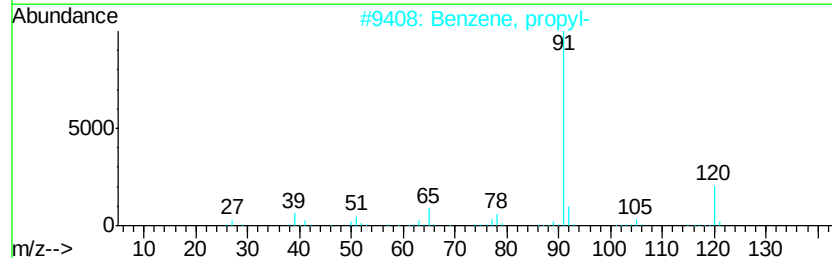
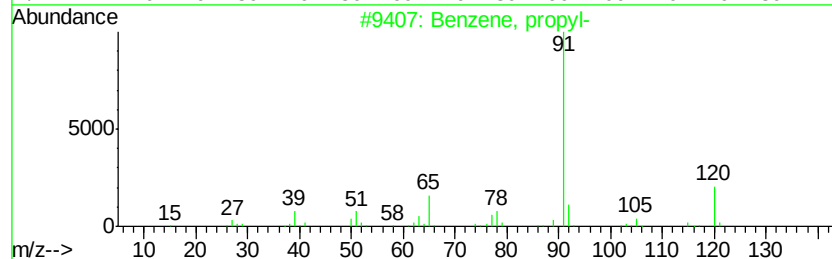
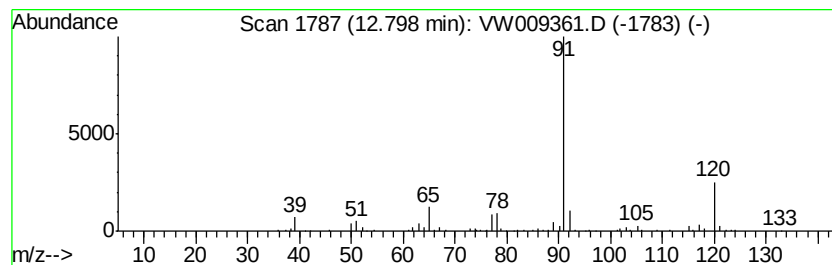
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzene, propyl- Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.80 | 5.12 ug/L | 71896 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzene, propyl-                    | 120 | C9H12    | 000103-65-1 | 90   |
| 2    |    | Benzene, propyl-                    | 120 | C9H12    | 000103-65-1 | 87   |
| 3    |    | Benzene, propyl-                    | 120 | C9H12    | 000103-65-1 | 72   |
| 4    |    | 1,2-Ethanediamine, N,N'-bis(phen... | 240 | C16H20N2 | 000140-28-3 | 72   |
| 5    |    | N-Benzyl-2-phenethylamine           | 211 | C15H17N  | 003647-71-0 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

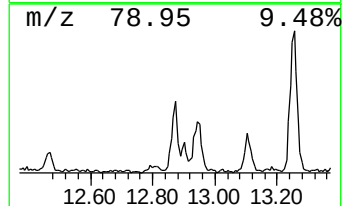
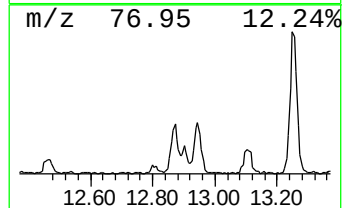
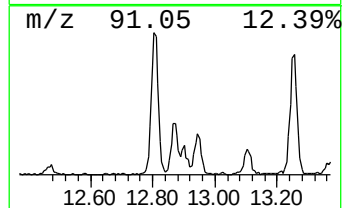
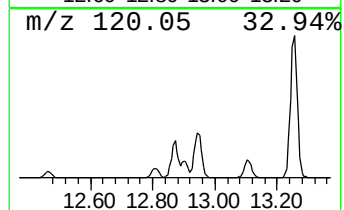
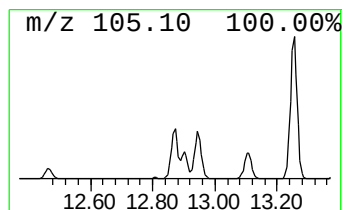
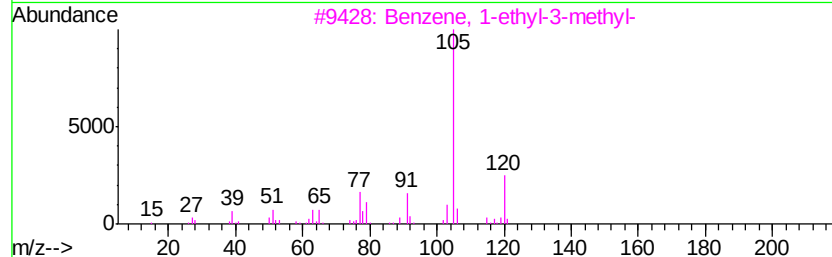
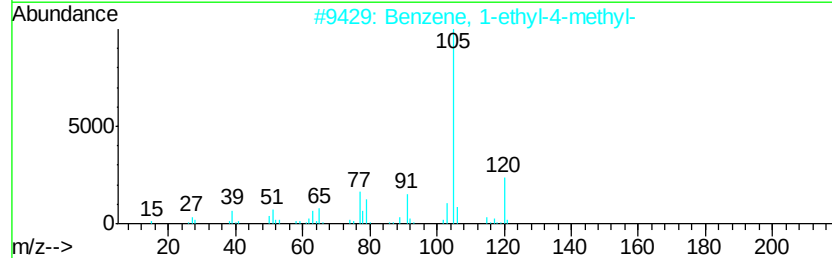
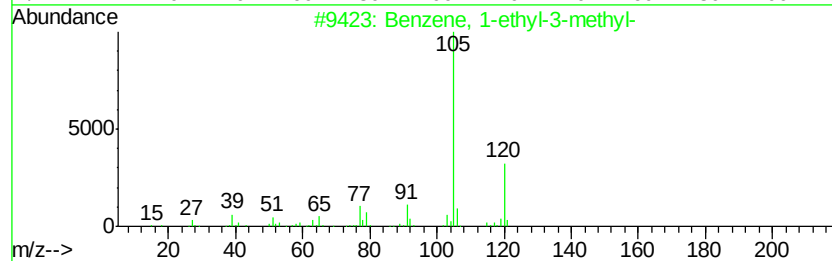
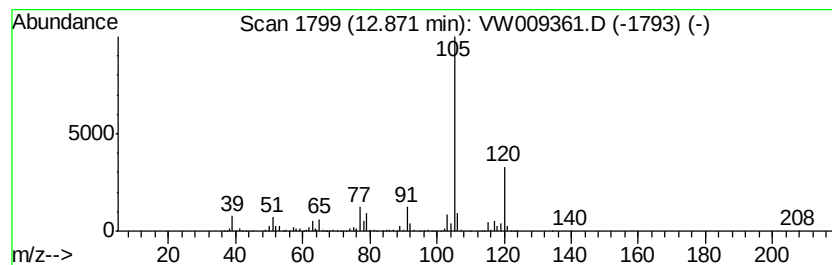
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-ethyl-3-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.87 | 17.34 ug/L | 243378 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 2    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 3    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 93   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

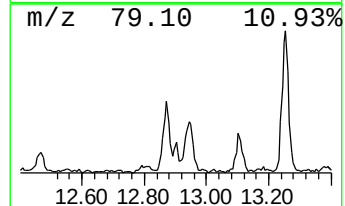
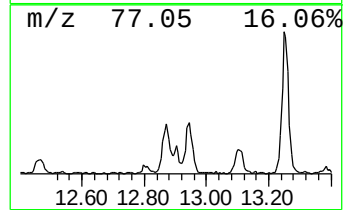
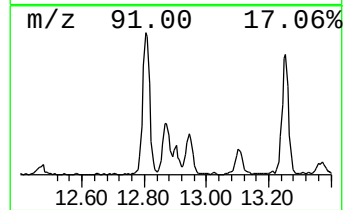
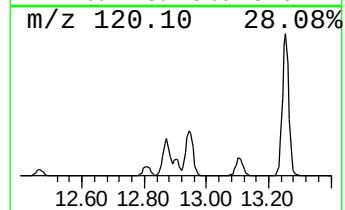
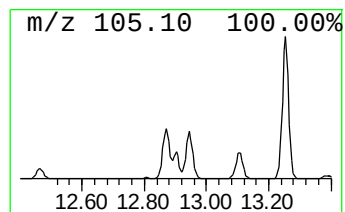
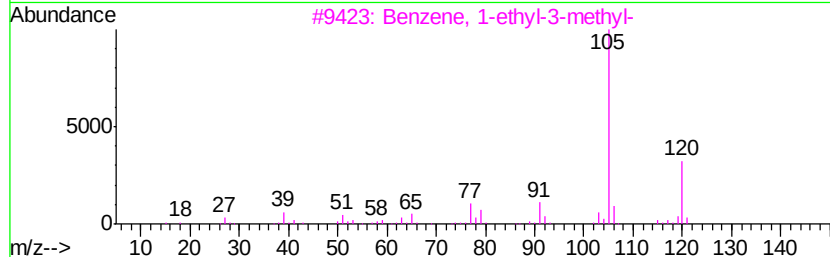
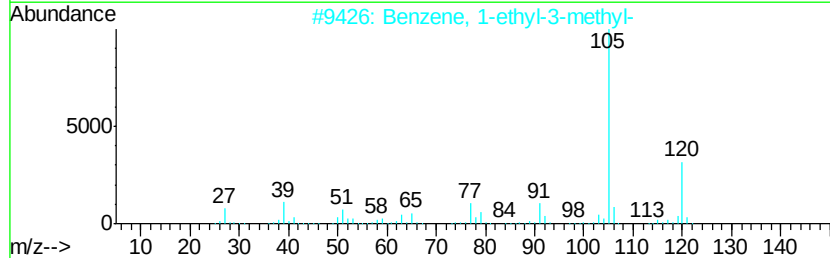
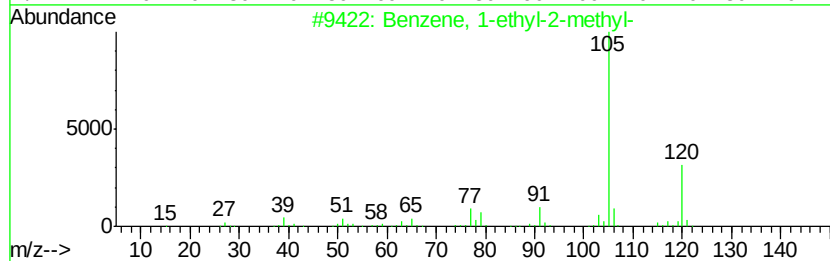
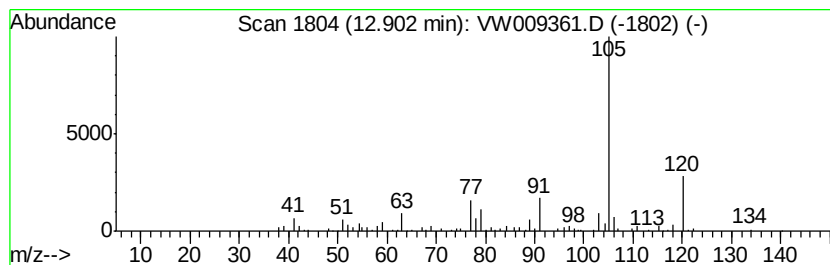
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 11 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

| R.T.      | EstConc                    | Area  | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|-------|------------------------|-------------|------|
| 12.90     | 6.50 ug/L                  | 91234 | 1,4-Dichlorobenzene-d4 | 13.56       |      |
| Hit# of 5 | Tentative ID               | MW    | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1-ethyl-2-methyl- | 120   | C9H12                  | 000611-14-3 | 86   |
| 2         | Benzene, 1-ethyl-3-methyl- | 120   | C9H12                  | 000620-14-4 | 86   |
| 3         | Benzene, 1-ethyl-3-methyl- | 120   | C9H12                  | 000620-14-4 | 86   |
| 4         | Benzene, 1-ethyl-4-methyl- | 120   | C9H12                  | 000622-96-8 | 83   |
| 5         | Benzene, 1-ethyl-3-methyl- | 120   | C9H12                  | 000620-14-4 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

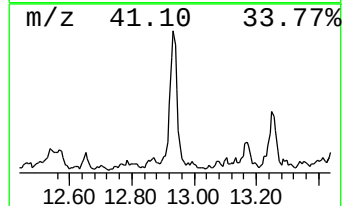
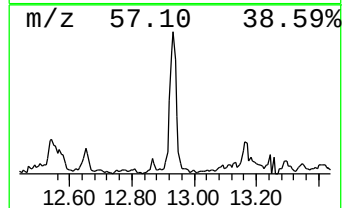
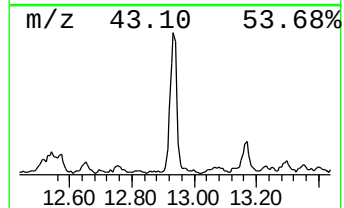
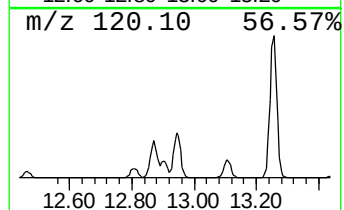
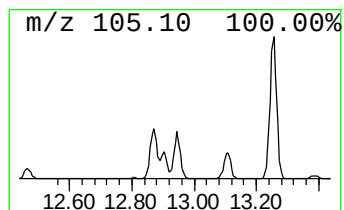
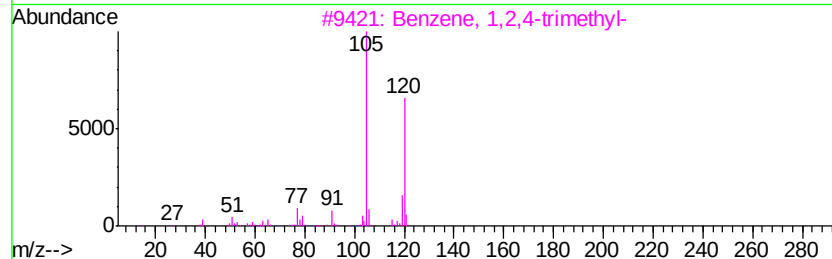
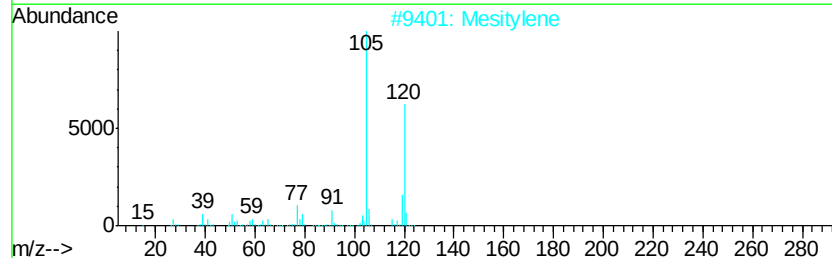
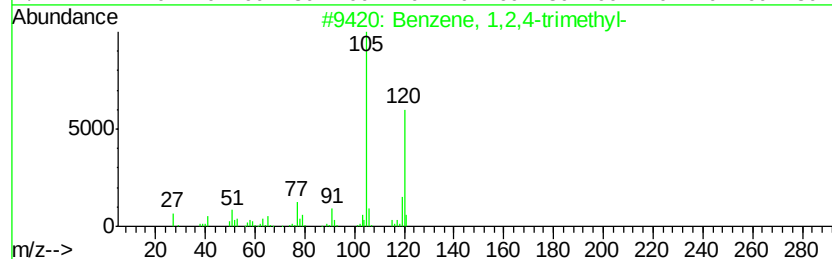
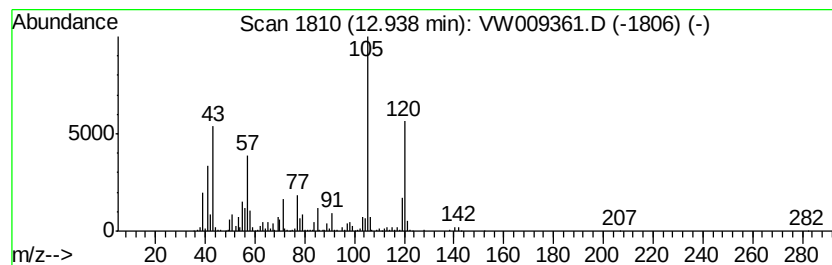
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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

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Peak Number 12 Benzene, 1,2,4-trimethyl- Concentration Rank 2

| R.T.    | EstConc    | Area                      | Relative to ISTD       | R.T.           |
|---------|------------|---------------------------|------------------------|----------------|
| 12.94   | 25.97 ug/L | 364508                    | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID              | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 81 |
| 2       |            | Mesitylene                | 120 C9H12              | 000108-67-8 81 |
| 3       |            | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 81 |
| 4       |            | Mesitylene                | 120 C9H12              | 000108-67-8 81 |
| 5       |            | Mesitylene                | 120 C9H12              | 000108-67-8 81 |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

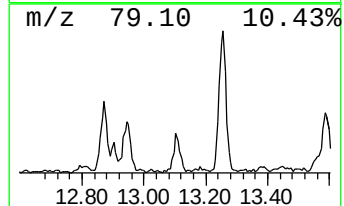
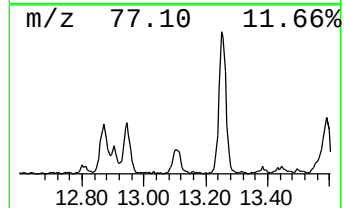
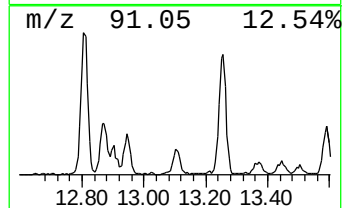
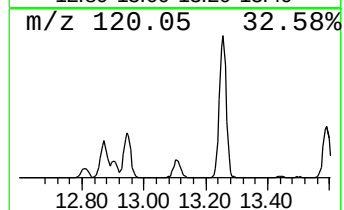
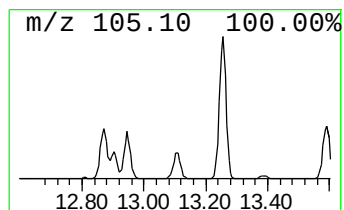
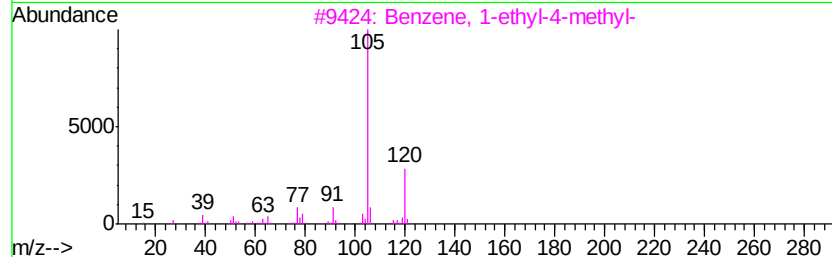
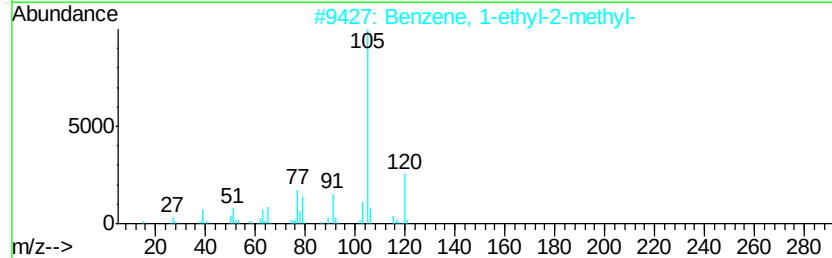
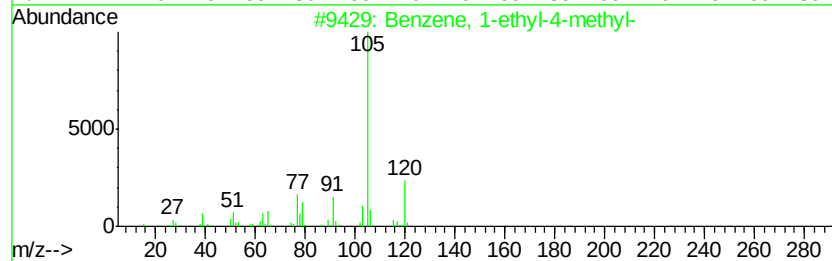
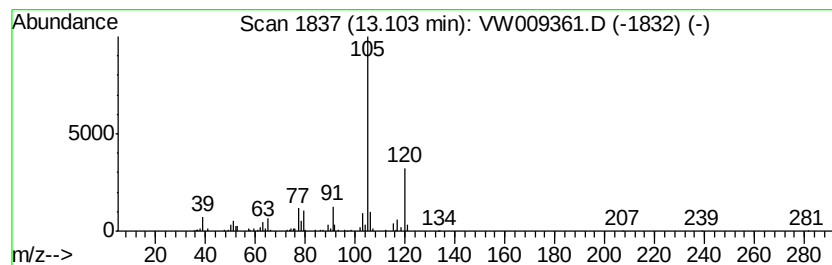
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Benzene, 1-ethyl-4-methyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.10 | 8.26 ug/L | 115987 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 95   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |
| 5    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

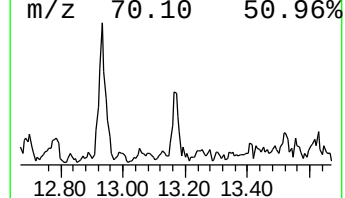
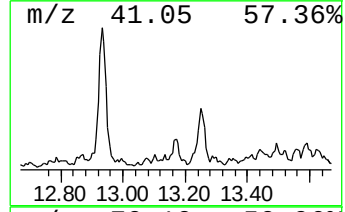
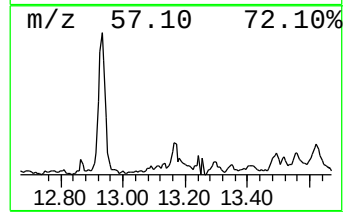
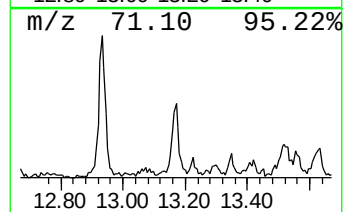
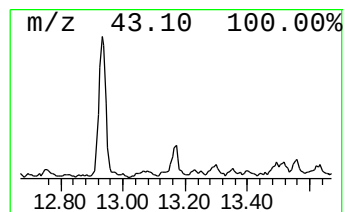
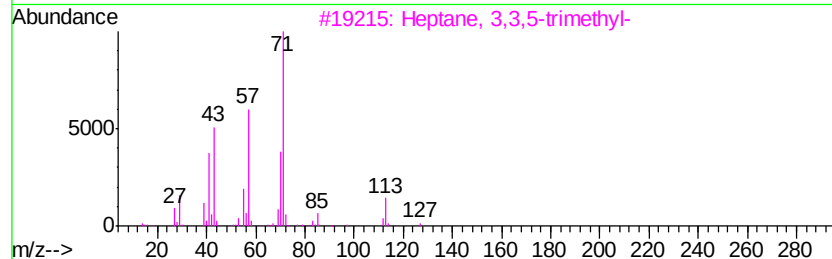
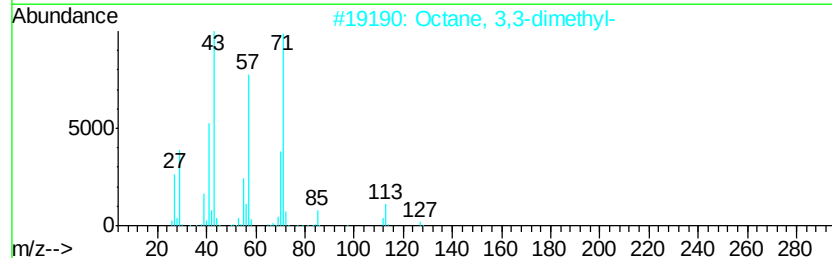
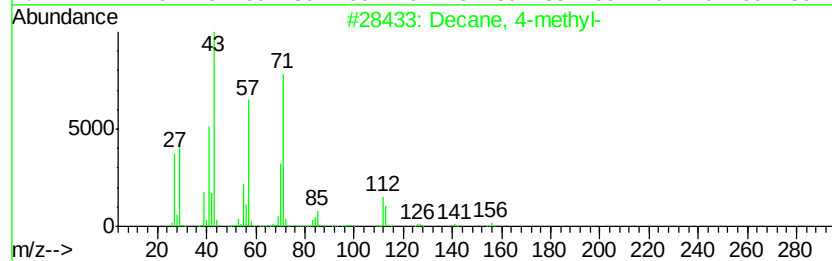
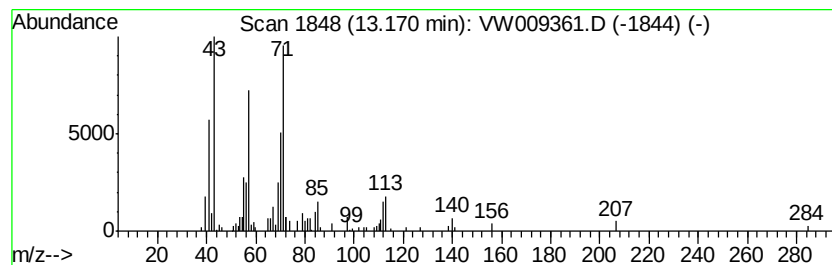
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.17 | 2.48 ug/L | 34769 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 4-methyl-             | 156 | C11H24  | 002847-72-5 | 72   |
| 2    |    | Octane, 3,3-dimethyl-         | 142 | C10H22  | 004110-44-5 | 64   |
| 3    |    | Heptane, 3,3,5-trimethyl-     | 142 | C10H22  | 007154-80-5 | 59   |
| 4    |    | Nonane, 2,6-dimethyl-         | 156 | C11H24  | 017302-28-2 | 59   |
| 5    |    | Propanal, 2-propenylhydrazone | 112 | C6H12N2 | 019031-78-8 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

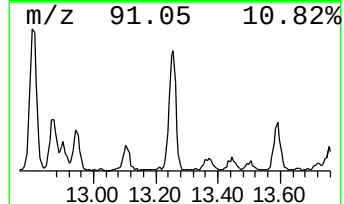
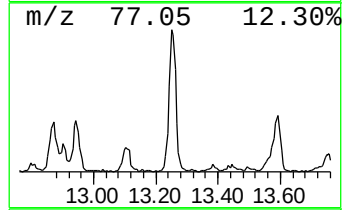
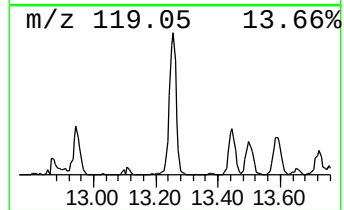
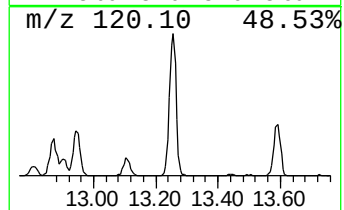
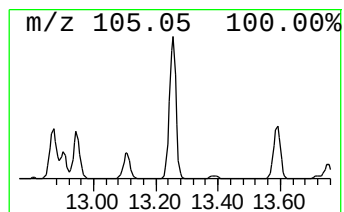
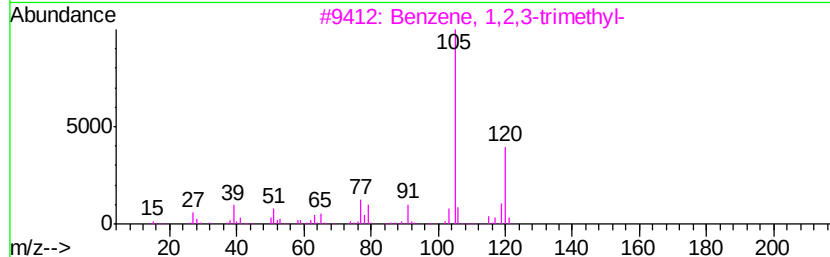
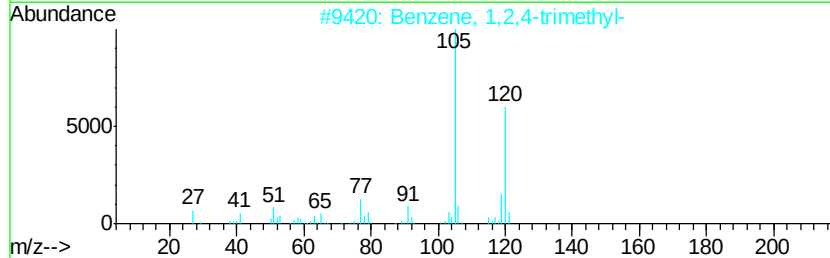
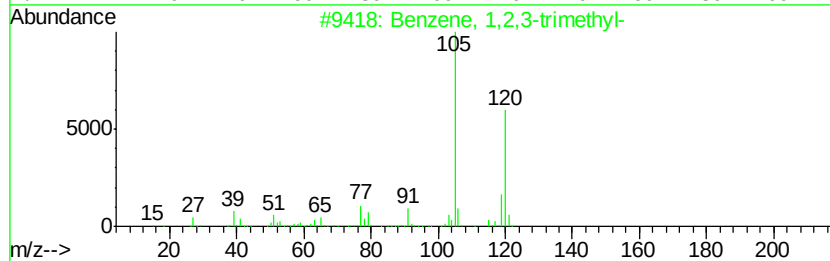
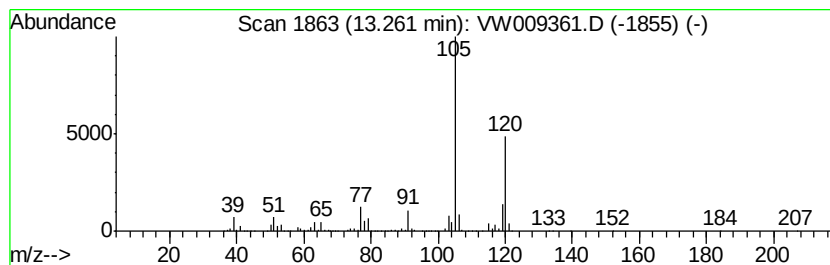
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzene, 1,2,3-trimethyl- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.26 | 47.72 ug/L | 669887 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 95   |
| 3    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 94   |
| 4    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 93   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

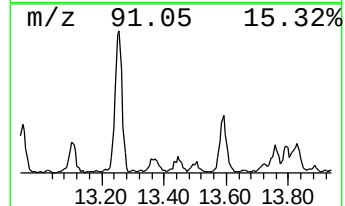
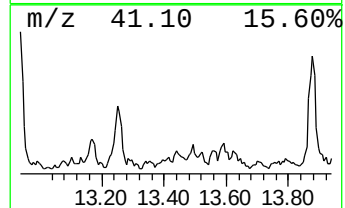
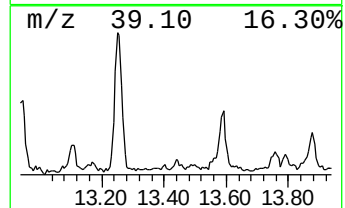
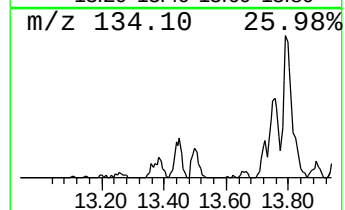
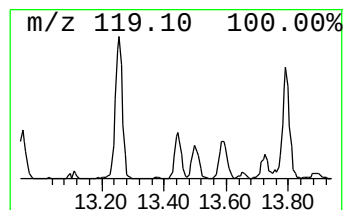
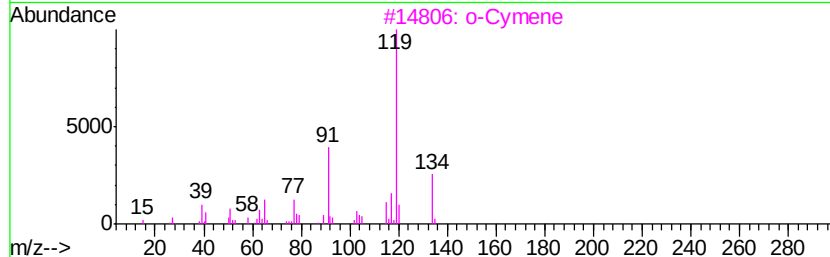
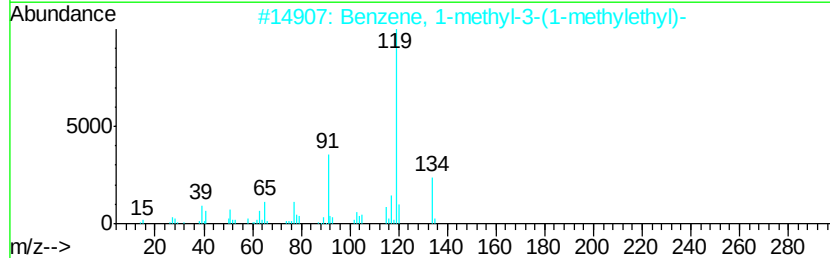
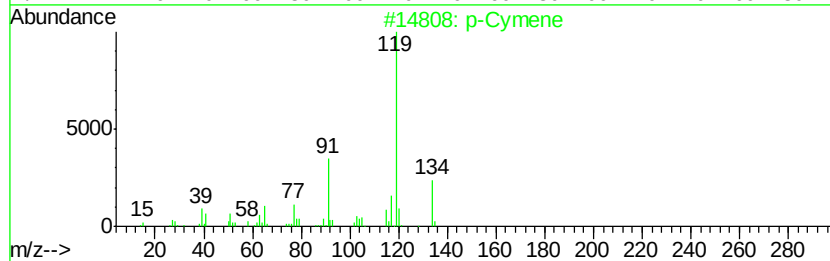
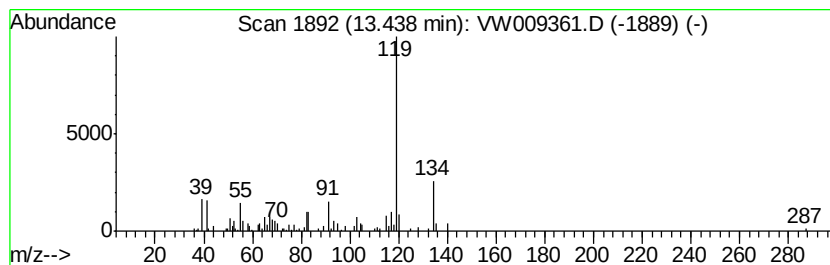
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 16 o-Cymene Concentration Rank 23

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.           |
|---------|-------------------------------------|--------------|------------------------|----------------|
| 13.44   | 2.05 ug/L                           | 28713        | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | p-Cymene                            |              | 134 C10H14             | 000099-87-6 94 |
| 2       | Benzene, 1-methyl-3-(1-methyleth... |              | 134 C10H14             | 000535-77-3 87 |
| 3       | o-Cymene                            |              | 134 C10H14             | 000527-84-4 87 |
| 4       | Benzene, 4-ethyl-1,2-dimethyl-      |              | 134 C10H14             | 000934-80-5 81 |
| 5       | Benzene, 1,2,3,5-tetramethyl-       |              | 134 C10H14             | 000527-53-7 74 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

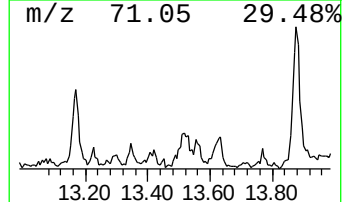
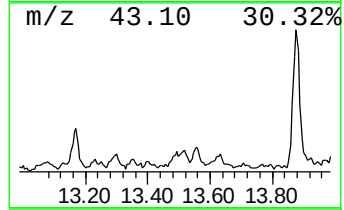
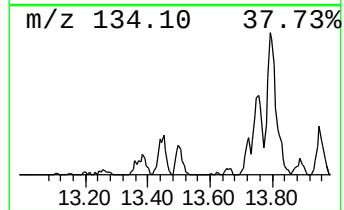
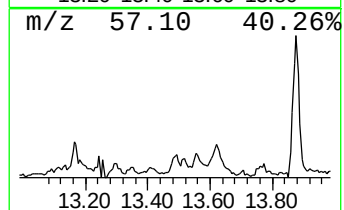
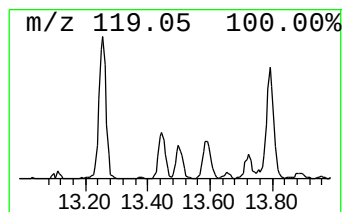
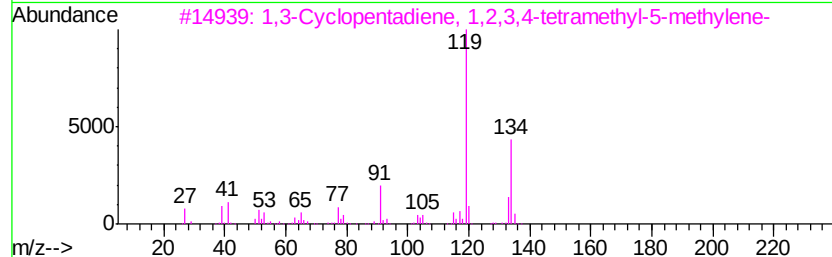
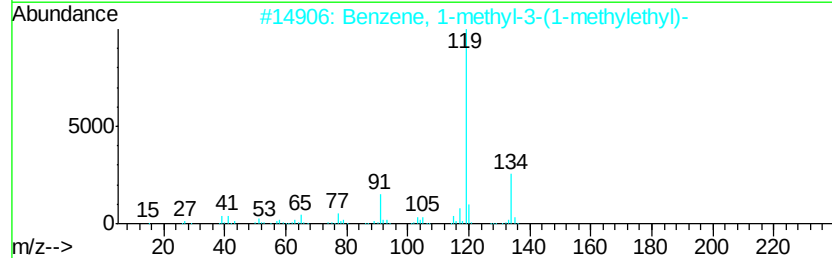
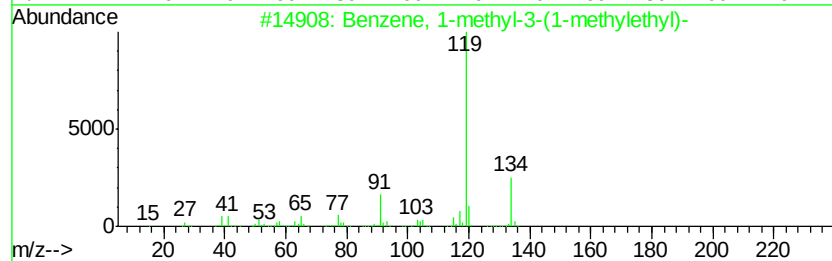
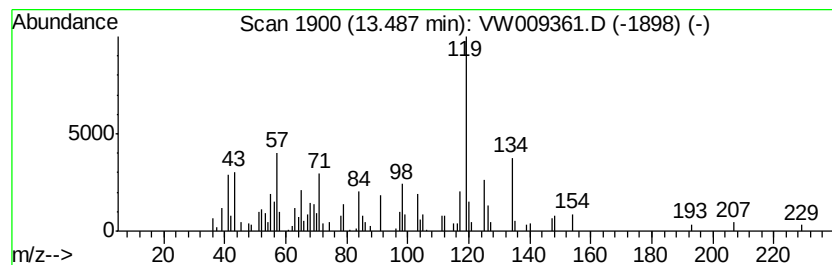
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1-methyl-3-(1-meth... Concentration Rank 28

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.49 | 1.64 ug/L | 22973 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 70   |
| 2    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 70   |
| 3    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 62   |
| 4    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 62   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 62   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

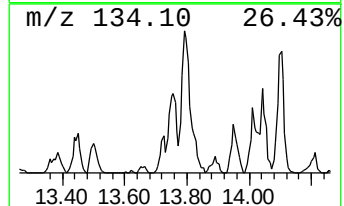
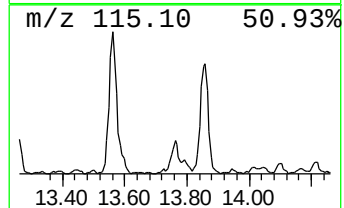
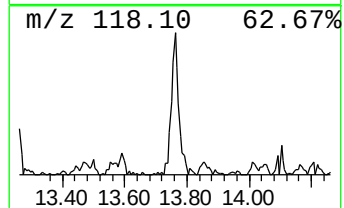
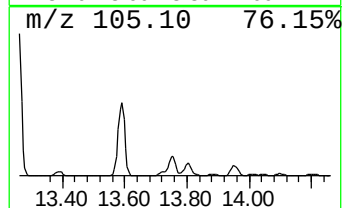
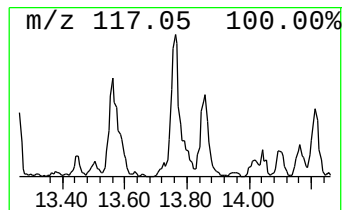
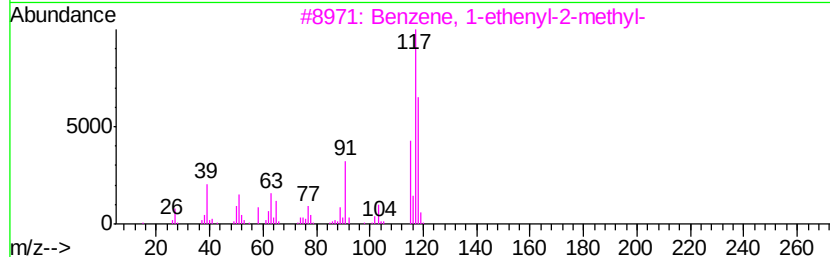
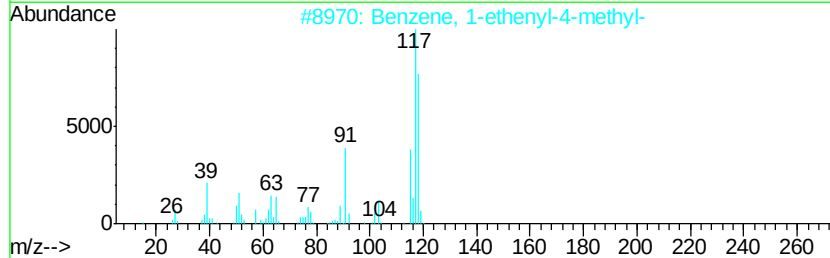
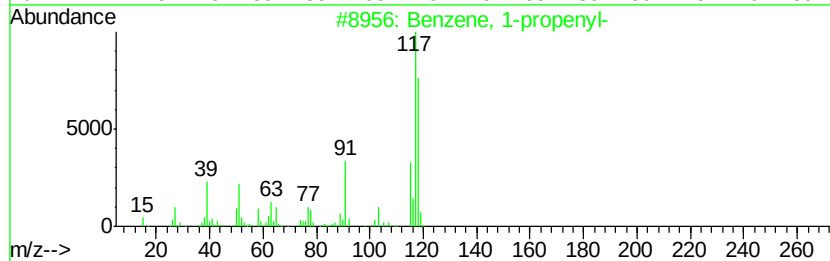
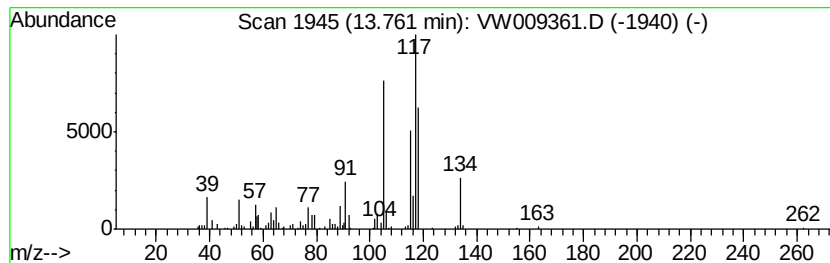
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Benzene, 1-propenyl- Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.76 | 6.50 ug/L | 91239 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 50   |
| 2       |   | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10   | 000622-97-9 | 50   |
| 3       |   | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 50   |
| 4       |   | Benzene, cyclopropyl-        | 118 | C9H10   | 000873-49-4 | 46   |
| 5       |   | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

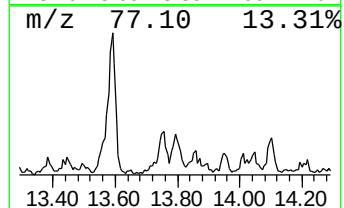
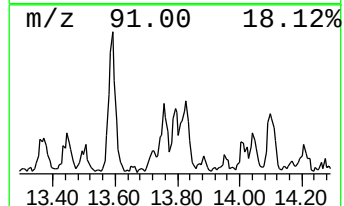
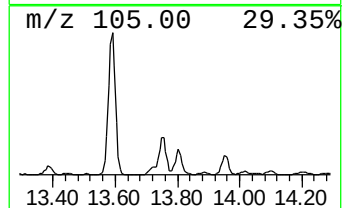
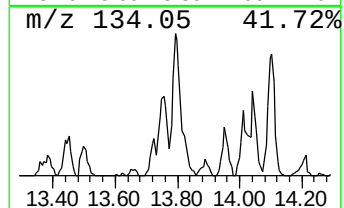
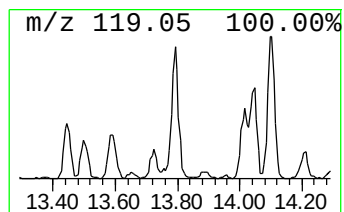
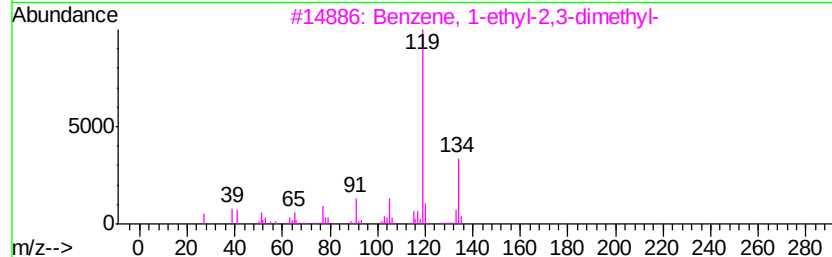
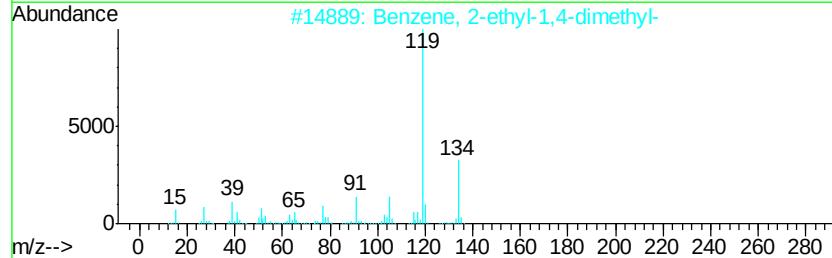
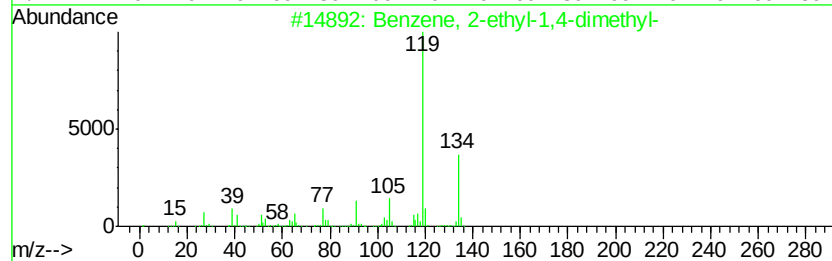
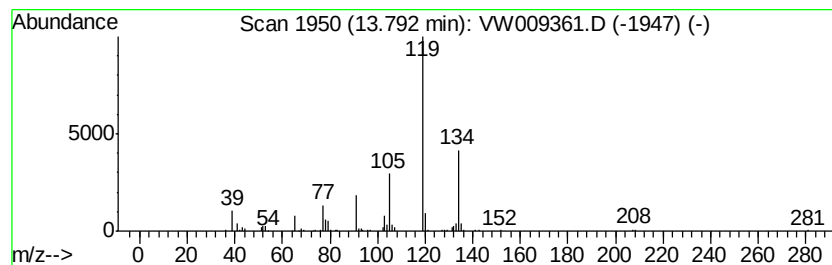
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.79 | 5.45 ug/L | 76447 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 2    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 3    |    |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 87   |
| 4    |    |   | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 87   |
| 5    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

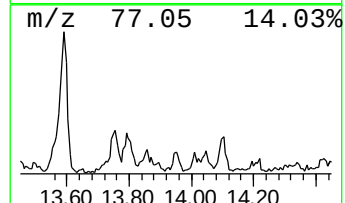
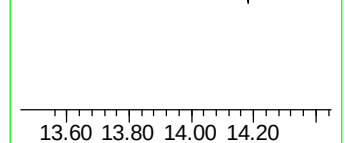
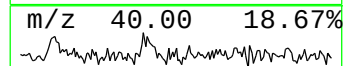
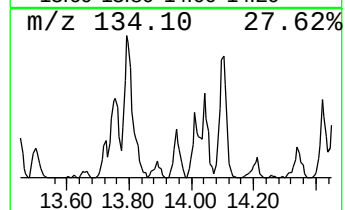
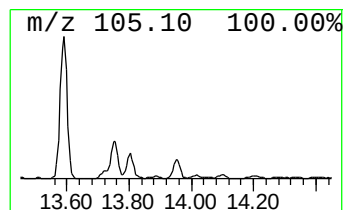
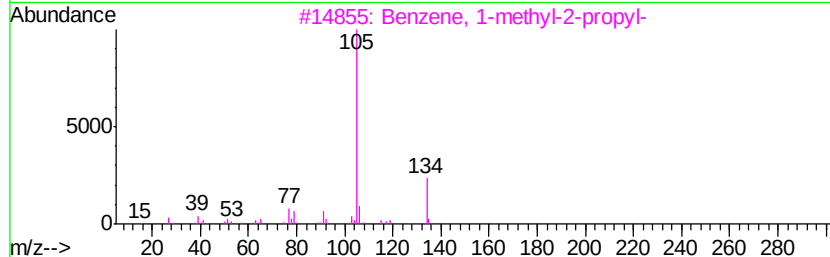
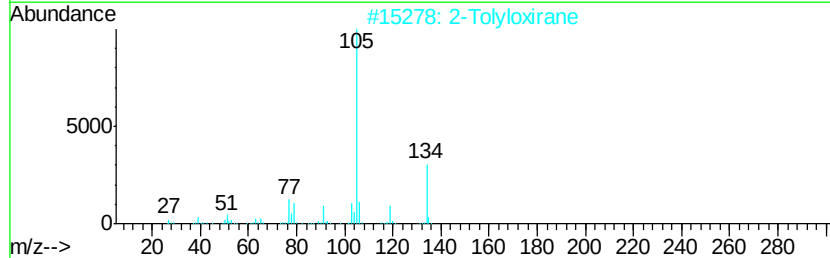
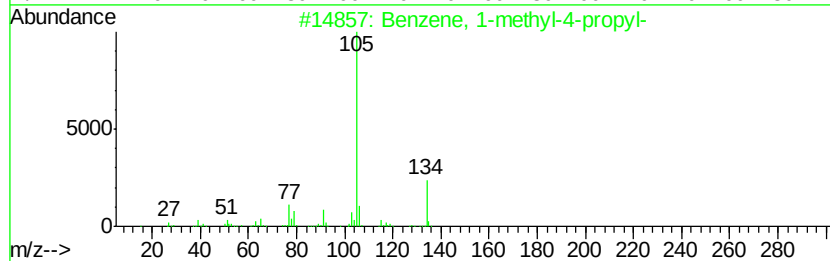
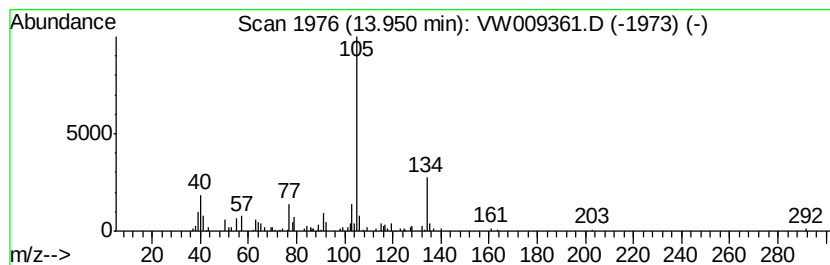
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Benzene, 1-methyl-4-propyl- Concentration Rank 25

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.95 | 1.90 ug/L | 26623 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 72   |
| 2    |    | 2-Tolyloxirane              | 134 | C9H10O  | 002783-26-8 | 68   |
| 3    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 64   |
| 4    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 62   |
| 5    |    | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 59   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

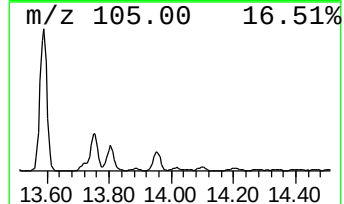
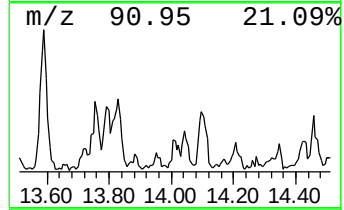
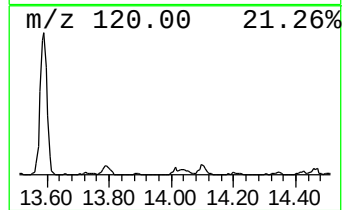
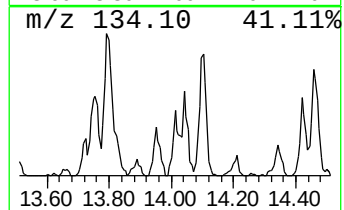
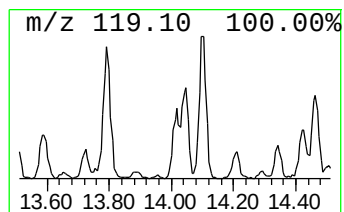
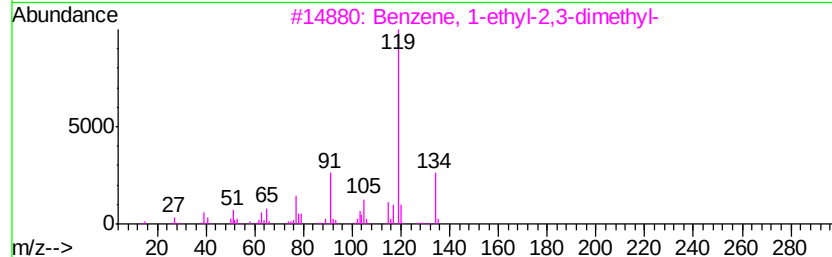
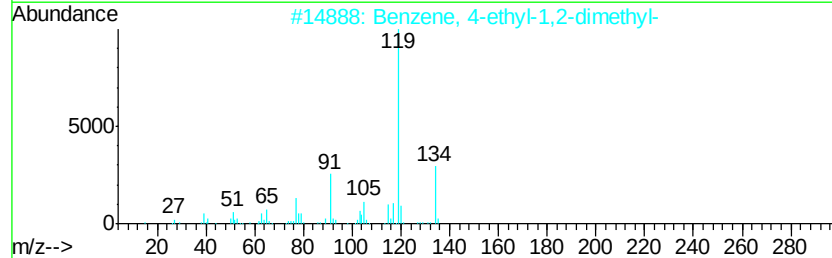
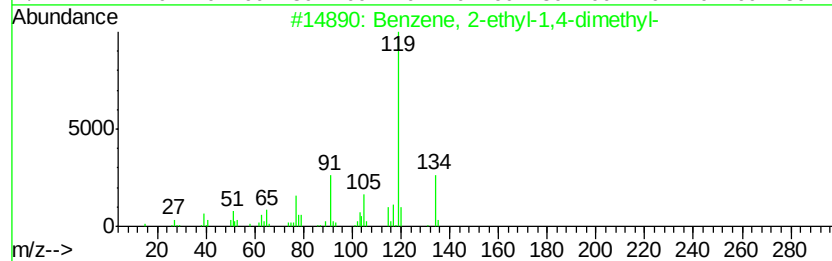
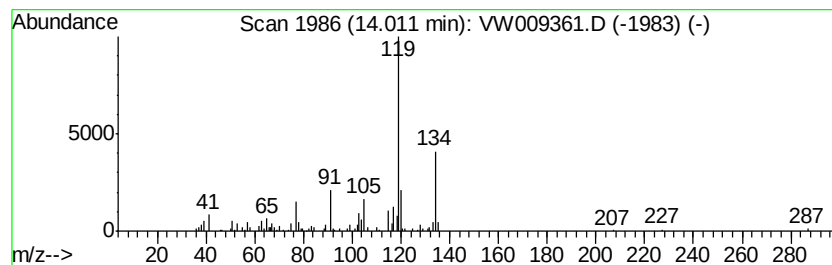
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 27

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.01 | 1.64 ug/L | 23005 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 93   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 91   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 87   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 87   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

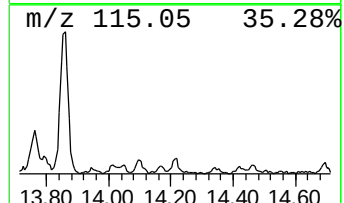
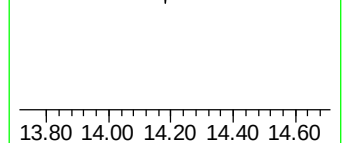
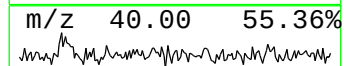
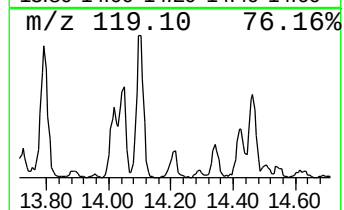
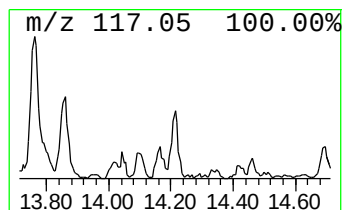
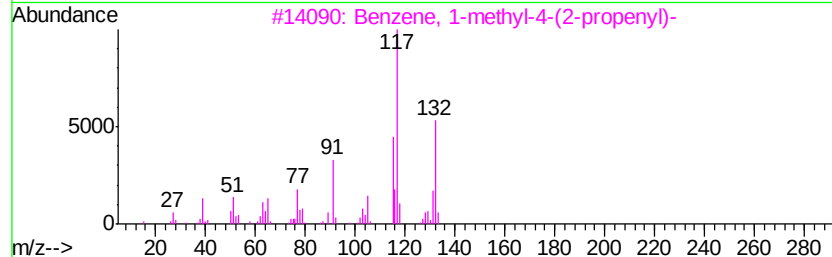
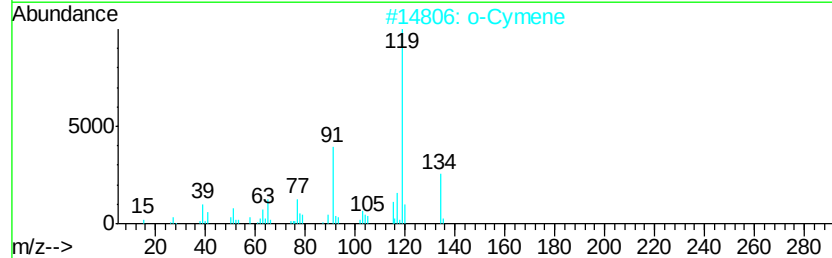
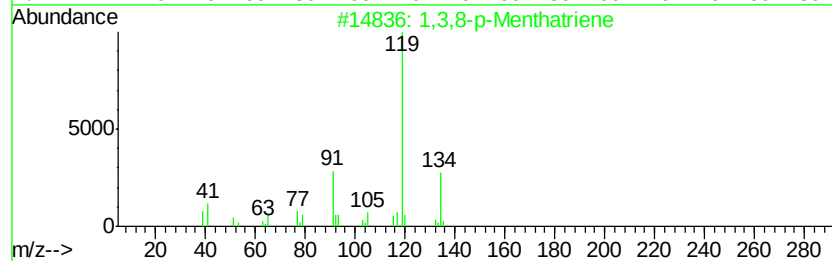
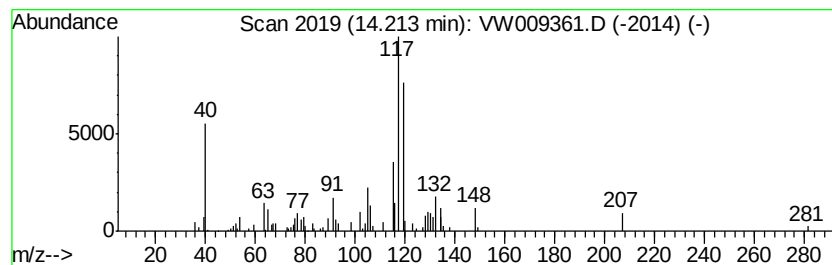
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 unknown-01 Concentration Rank 19

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.21 | 2.63 ug/L | 36931 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,3,8-p-Menthatriene              | 134 | C10H14  | 018368-95-1 | 38   |
| 2    |    |   | o-Cymene                          | 134 | C10H14  | 000527-84-4 | 38   |
| 3    |    |   | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 38   |
| 4    |    |   | p-Cymene                          | 134 | C10H14  | 000099-87-6 | 35   |
| 5    |    |   | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4 | 30   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

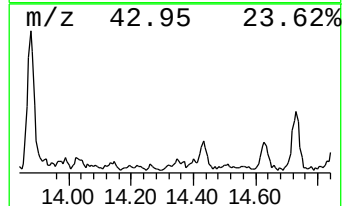
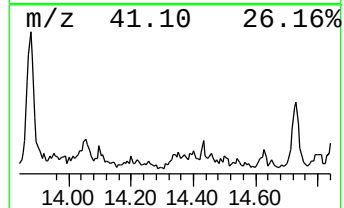
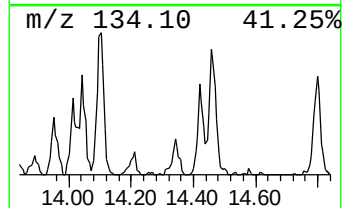
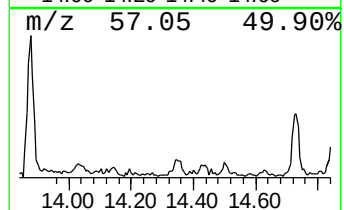
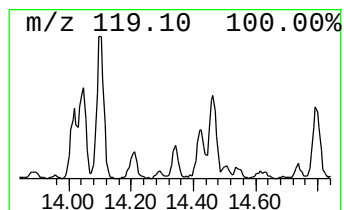
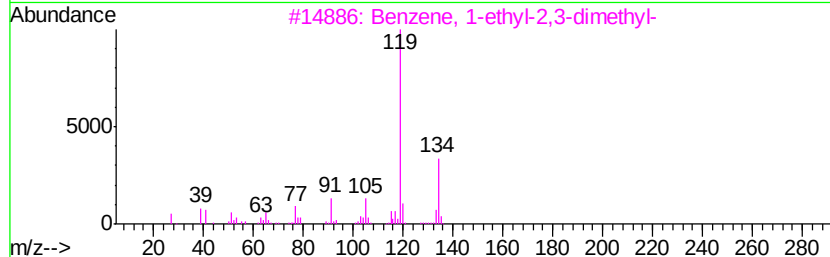
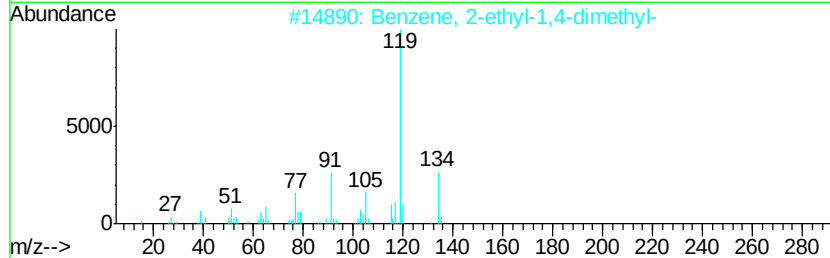
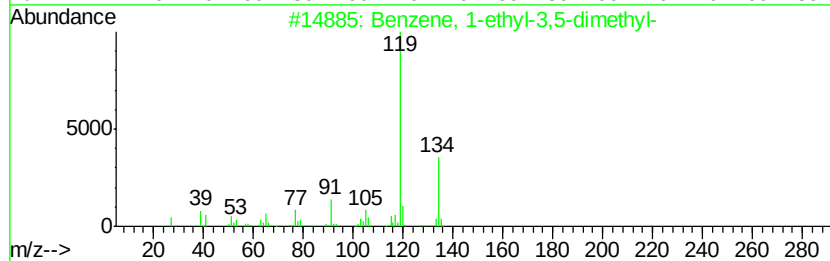
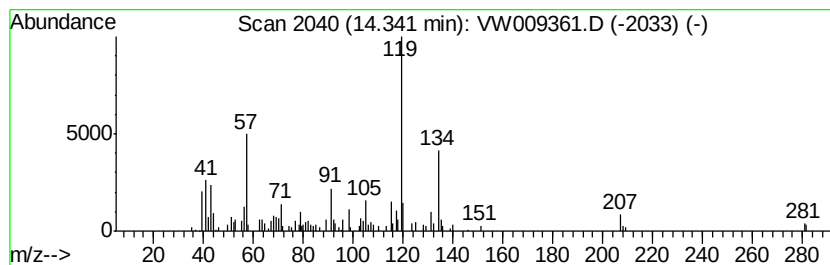
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.34 | 3.12 ug/L | 43728 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 81   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 81   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 81   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 81   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

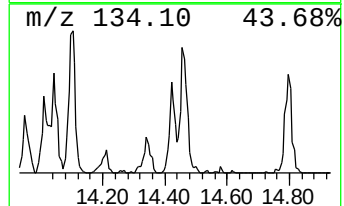
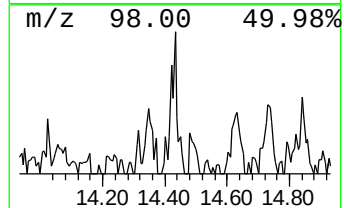
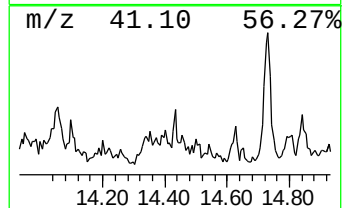
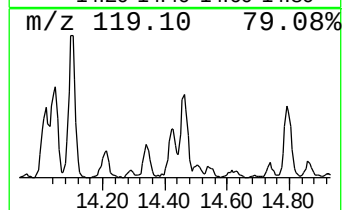
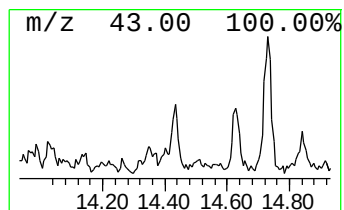
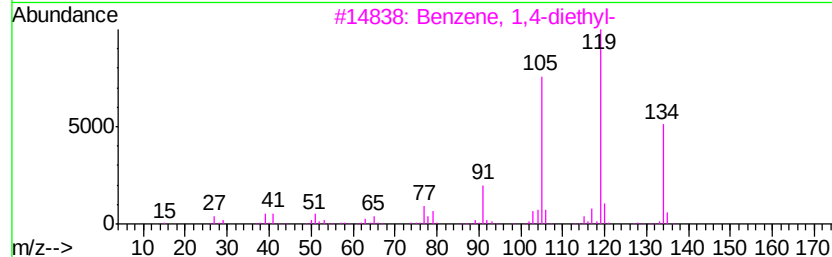
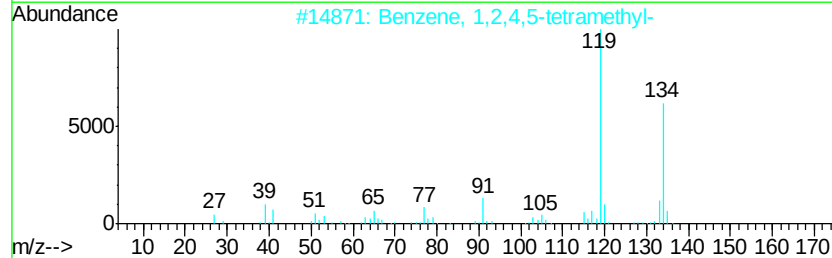
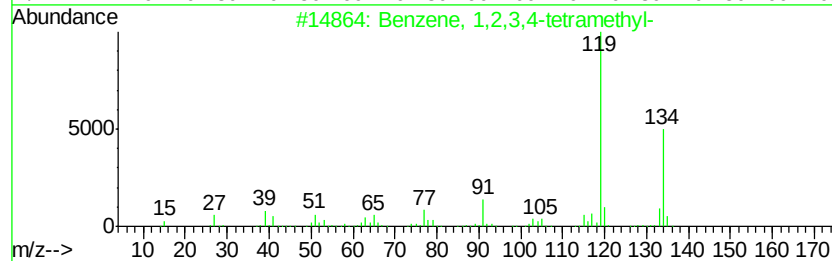
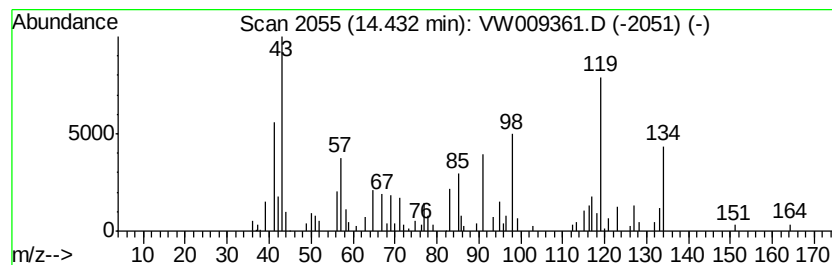
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.43 | 3.27 ug/L | 45965 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 81   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 74   |
| 3    |    | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 72   |
| 4    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 72   |
| 5    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

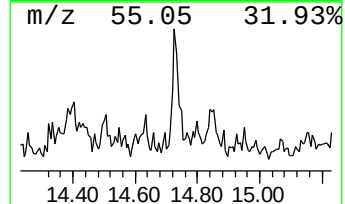
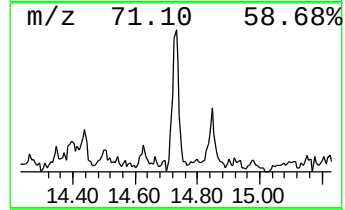
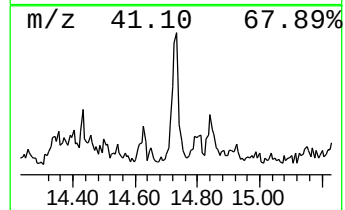
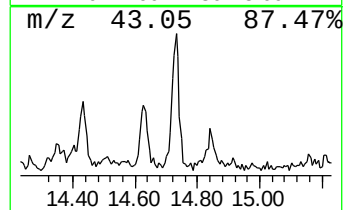
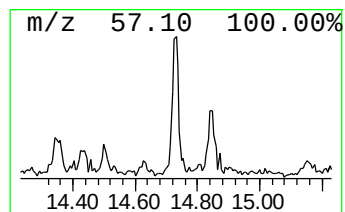
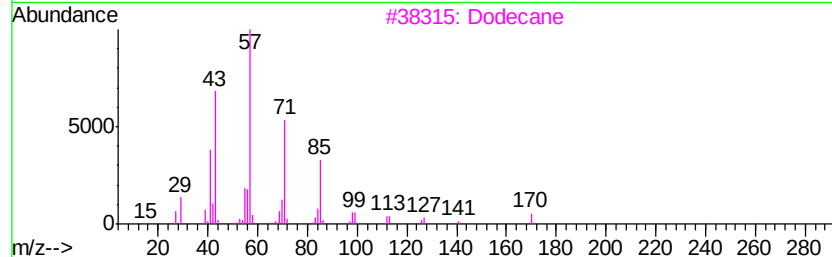
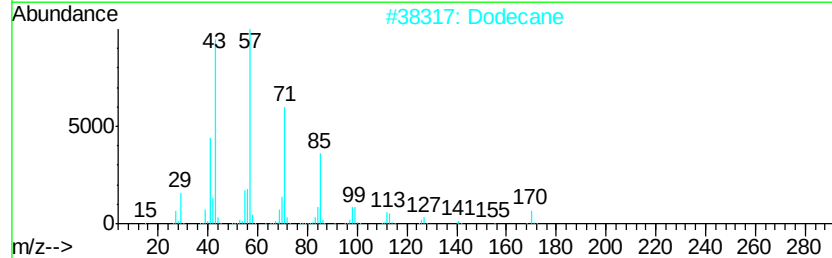
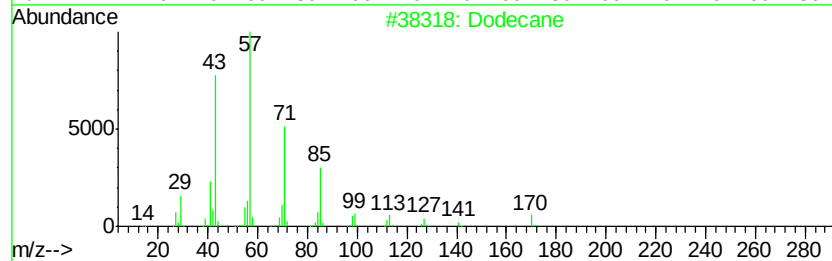
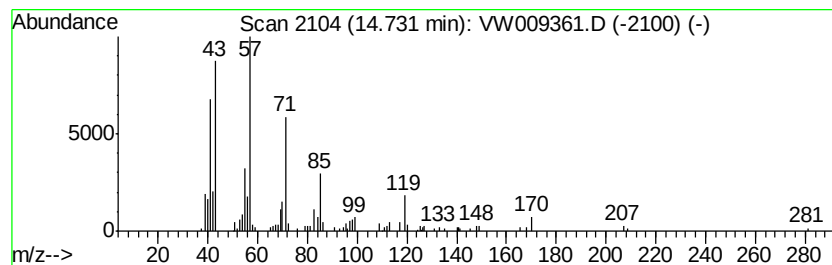
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.73 | 4.46 ug/L | 62597 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane     | 170 | C12H26  | 000112-40-3 | 83   |
| 2    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 76   |
| 3    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 76   |
| 4    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 72   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
Data File : VW009361.D  
Acq On : 22 Mar 2019 23:21  
Operator : SY/VA  
Sample : K2031-01  
Misc : 5.48G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5S1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

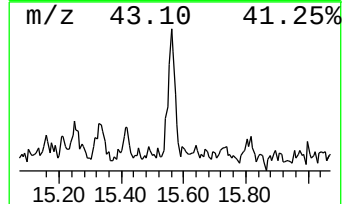
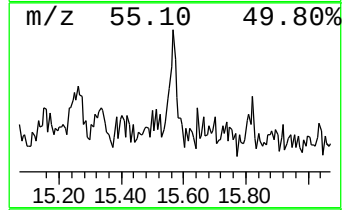
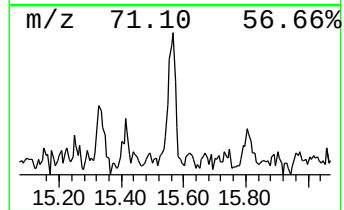
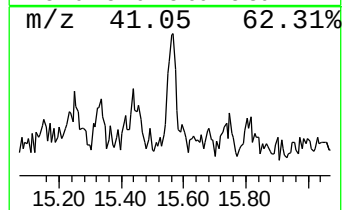
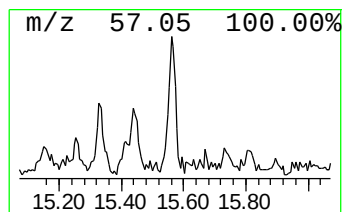
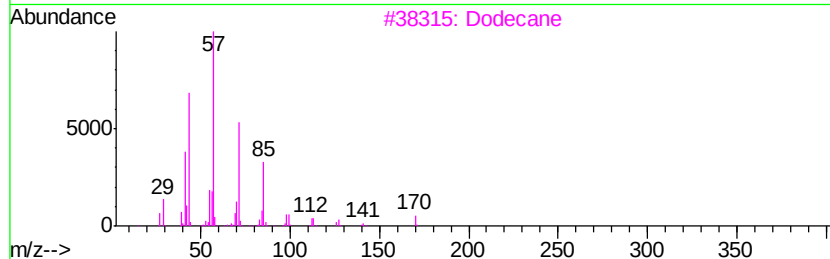
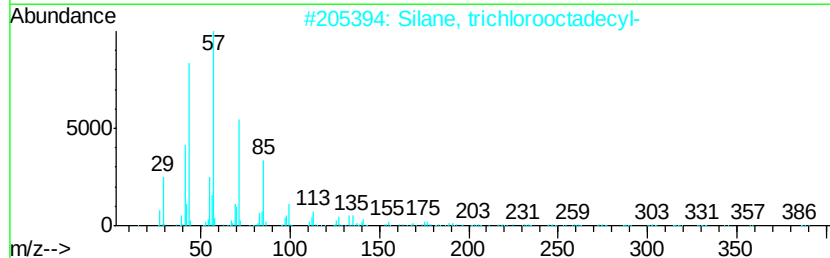
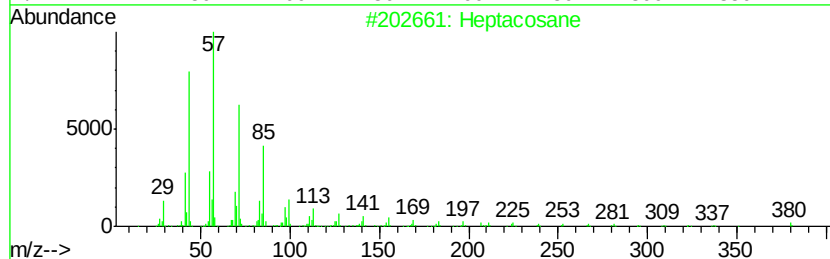
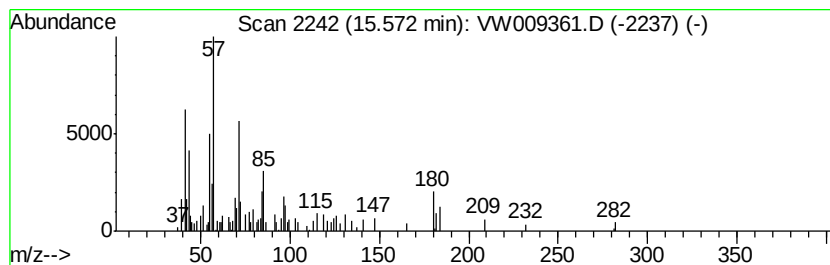
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.57 | 2.89 ug/L | 40551 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Heptacosane                 | 380 | C27H56      | 000593-49-7 | 47   |
| 2    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 46   |
| 3    |    | Dodecane                    | 170 | C12H26      | 000112-40-3 | 46   |
| 4    |    | Eicosane                    | 282 | C20H42      | 000112-95-8 | 46   |
| 5    |    | Nonadecane                  | 268 | C19H40      | 000629-92-5 | 43   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW032219\  
 Data File : VW009361.D  
 Acq On : 22 Mar 2019 23:21  
 Operator : SY/VA  
 Sample : K2031-01  
 Misc : 5.48G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5S1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.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: Cyc... | 9.33  | 1.3     | ug/L  | 39816    | 1                     | 8.84  | 744848 | 25.0 |
| (DEL) Alkane: Str... | 10.51 | 2.9     | ug/L  | 69683    | 2                     | 11.63 | 598722 | 25.0 |
| (DEL) Alkane: Cyc... | 11.18 | 1.5     | ug/L  | 34711    | 2                     | 11.63 | 598722 | 25.0 |
| (DEL) Alkane: Cyc... | 11.23 | 1.5     | ug/L  | 35064    | 2                     | 11.63 | 598722 | 25.0 |
| (DEL) Alkane: Str... | 11.41 | 3.3     | ug/L  | 80049    | 2                     | 11.63 | 598722 | 25.0 |
| (DEL) Alkane: Str... | 11.51 | 2.4     | ug/L  | 57958    | 2                     | 11.63 | 598722 | 25.0 |
| (DEL) Alkane: Str... | 12.26 | 1.7     | ug/L  | 40888    | 2                     | 11.63 | 598722 | 25.0 |
| Benzene, propyl-     | 12.80 | 5.1     | ug/L  | 71896    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-ethyl-... | 12.87 | 17.3    | ug/L  | 243378   | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-ethyl-... | 12.90 | 6.5     | ug/L  | 91234    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1,2,4-tr... | 12.94 | 26.0    | ug/L  | 364508   | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-ethyl-... | 13.10 | 8.3     | ug/L  | 115987   | 3                     | 13.56 | 350938 | 25.0 |
| (DEL) Alkane: Str... | 13.17 | 2.5     | ug/L  | 34769    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1,2,3-tr... | 13.26 | 47.7    | ug/L  | 669887   | 3                     | 13.56 | 350938 | 25.0 |
| o-Cymene             | 13.44 | 2.0     | ug/L  | 28713    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-methyl... | 13.49 | 1.6     | ug/L  | 22973    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-propenyl- | 13.76 | 6.5     | ug/L  | 91239    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 2-ethyl-... | 13.79 | 5.5     | ug/L  | 76447    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-methyl... | 13.95 | 1.9     | ug/L  | 26623    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-ethyl-... | 14.01 | 1.6     | ug/L  | 23005    | 3                     | 13.56 | 350938 | 25.0 |
| unknown-01           | 14.21 | 2.6     | ug/L  | 36931    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1-ethyl-... | 14.34 | 3.1     | ug/L  | 43728    | 3                     | 13.56 | 350938 | 25.0 |
| Benzene, 1,2,3,4-... | 14.43 | 3.3     | ug/L  | 45965    | 3                     | 13.56 | 350938 | 25.0 |
| (DEL) Alkane: Str... | 14.73 | 4.5     | ug/L  | 62597    | 3                     | 13.56 | 350938 | 25.0 |
| (DEL) Alkane: Str... | 15.57 | 2.9     | ug/L  | 40551    | 3                     | 13.56 | 350938 | 25.0 |