

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
 Data File : VW009474.D  
 Acq On : 26 Mar 2019 20:27  
 Operator : SY/VA  
 Sample : K2044-15RE  
 Misc : 4.87G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5W4RE

## 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 # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 4.007    | 336        | 345      | 355       | rVB2  | 43818       | 121109     | 26.87%       | 2.723%     |
| 2      | 4.123    | 357        | 364      | 365       | rBV2  | 6883        | 11733      | 2.60%        | 0.264%     |
| 3      | 4.245    | 379        | 384      | 386       | rBV2  | 2184        | 2826       | 0.63%        | 0.064%     |
| 4      | 4.525    | 428        | 430      | 434       | rBV3  | 2528        | 2221       | 0.49%        | 0.050%     |
| 5      | 4.647    | 448        | 450      | 452       | rBV   | 1439        | 1286       | 0.29%        | 0.029%     |
| 6      | 4.909    | 482        | 493      | 499       | rBV5  | 15478       | 51214      | 11.36%       | 1.151%     |
| 7      | 5.300    | 554        | 557      | 558       | rBV2  | 1649        | 1534       | 0.34%        | 0.034%     |
| 8      | 5.348    | 561        | 565      | 568       | rVB2  | 1467        | 1507       | 0.33%        | 0.034%     |
| 9      | 5.391    | 570        | 572      | 574       | rVV   | 2278        | 2463       | 0.55%        | 0.055%     |
| 10     | 5.415    | 574        | 576      | 580       | rVV2  | 3667        | 3629       | 0.81%        | 0.082%     |
| 11     | 5.452    | 580        | 582      | 585       | rVB   | 2524        | 2829       | 0.63%        | 0.064%     |
| 12     | 5.604    | 604        | 607      | 611       | rVB2  | 1867        | 2009       | 0.45%        | 0.045%     |
| 13     | 5.690    | 619        | 621      | 622       | rBV2  | 1964        | 1363       | 0.30%        | 0.031%     |
| 14     | 5.751    | 628        | 631      | 632       | rBV   | 1971        | 1557       | 0.35%        | 0.035%     |
| 15     | 5.897    | 654        | 655      | 656       | rVV   | 2667        | 1806       | 0.40%        | 0.041%     |
| 16     | 5.940    | 656        | 662      | 668       | rVV6  | 5872        | 14842      | 3.29%        | 0.334%     |
| 17     | 6.050    | 677        | 680      | 684       | rBV   | 2169        | 3726       | 0.83%        | 0.084%     |
| 18     | 6.147    | 695        | 696      | 701       | rVB   | 1958        | 1818       | 0.40%        | 0.041%     |
| 19     | 6.196    | 703        | 704      | 708       | rVB2  | 1660        | 1322       | 0.29%        | 0.030%     |
| 20     | 6.245    | 708        | 712      | 713       | rBV2  | 1526        | 2147       | 0.48%        | 0.048%     |
| 21     | 6.391    | 732        | 736      | 740       | rBV   | 1607        | 2637       | 0.59%        | 0.059%     |
| 22     | 6.434    | 740        | 743      | 745       | rVV   | 1696        | 1597       | 0.35%        | 0.036%     |
| 23     | 6.537    | 758        | 760      | 762       | rVB   | 1991        | 1591       | 0.35%        | 0.036%     |
| 24     | 6.562    | 762        | 764      | 767       | rVB   | 1896        | 1498       | 0.33%        | 0.034%     |
| 25     | 6.684    | 780        | 784      | 785       | rBV   | 2981        | 4318       | 0.96%        | 0.097%     |
| 26     | 6.805    | 803        | 804      | 805       | rVV   | 2001        | 1421       | 0.32%        | 0.032%     |
| 27     | 6.866    | 806        | 814      | 825       | rVB5  | 14779       | 48732      | 10.81%       | 1.096%     |
| 28     | 7.080    | 841        | 849      | 856       | rBV3  | 11984       | 38255      | 8.49%        | 0.860%     |
| 29     | 7.275    | 878        | 881      | 883       | rVB   | 2024        | 2189       | 0.49%        | 0.049%     |
| 30     | 7.305    | 883        | 886      | 888       | rBV4  | 1503        | 1914       | 0.42%        | 0.043%     |
| 31     | 7.421    | 902        | 905      | 907       | rBV   | 1782        | 1513       | 0.34%        | 0.034%     |
| 32     | 7.458    | 909        | 911      | 912       | rBV2  | 2215        | 1596       | 0.35%        | 0.036%     |
| 33     | 7.647    | 933        | 942      | 958       | rVB   | 76212       | 194651     | 43.19%       | 4.376%     |
| 34     | 8.025    | 997        | 1004     | 1014      | rVB4  | 39120       | 103192     | 22.90%       | 2.320%     |

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 Peak separation: 5

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

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 8.134  | 1020 | 1022 | 1023 | rBV2 | 1903   | 1404   | 0.31%   | 0.032%  |
| 36 | 8.153  | 1023 | 1025 | 1029 | rVV2 | 3787   | 4820   | 1.07%   | 0.108%  |
| 37 | 8.208  | 1031 | 1034 | 1036 | rVV2 | 8853   | 13212  | 2.93%   | 0.297%  |
| 38 | 8.275  | 1038 | 1045 | 1058 | rVB2 | 128593 | 378550 | 84.00%  | 8.510%  |
| 39 | 8.421  | 1063 | 1069 | 1071 | rVV4 | 14342  | 29953  | 6.65%   | 0.673%  |
| 40 | 8.476  | 1073 | 1078 | 1089 | rVV  | 87984  | 207141 | 45.96%  | 4.657%  |
| 41 | 8.567  | 1089 | 1093 | 1098 | rVV5 | 6398   | 12278  | 2.72%   | 0.276%  |
| 42 | 8.628  | 1101 | 1103 | 1106 | rVB2 | 1723   | 1865   | 0.41%   | 0.042%  |
| 43 | 8.701  | 1111 | 1115 | 1119 | rBV4 | 1685   | 3113   | 0.69%   | 0.070%  |
| 44 | 8.842  | 1130 | 1138 | 1148 | rVB  | 138820 | 281570 | 62.48%  | 6.330%  |
| 45 | 9.140  | 1183 | 1187 | 1190 | rBV4 | 4165   | 6214   | 1.38%   | 0.140%  |
| 46 | 9.281  | 1201 | 1210 | 1223 | rBV5 | 104371 | 361715 | 80.26%  | 8.131%  |
| 47 | 9.464  | 1234 | 1240 | 1247 | rVB  | 50327  | 102440 | 22.73%  | 2.303%  |
| 48 | 9.756  | 1281 | 1288 | 1296 | rVB  | 176613 | 338340 | 75.08%  | 7.606%  |
| 49 | 9.890  | 1301 | 1310 | 1324 | rBV  | 215189 | 450661 | 100.00% | 10.131% |
| 50 | 10.037 | 1328 | 1334 | 1338 | rBV  | 30399  | 58059  | 12.88%  | 1.305%  |
| 51 | 10.244 | 1357 | 1368 | 1374 | rBV  | 39740  | 89812  | 19.93%  | 2.019%  |
| 52 | 10.323 | 1374 | 1381 | 1390 | rVV  | 162203 | 289660 | 64.27%  | 6.512%  |
| 53 | 10.488 | 1402 | 1408 | 1415 | rBV2 | 25888  | 60067  | 13.33%  | 1.350%  |
| 54 | 10.579 | 1418 | 1423 | 1427 | rBV2 | 22111  | 37406  | 8.30%   | 0.841%  |
| 55 | 10.665 | 1433 | 1437 | 1444 | rVB2 | 27174  | 45594  | 10.12%  | 1.025%  |
| 56 | 10.762 | 1448 | 1453 | 1458 | rBV5 | 13747  | 32486  | 7.21%   | 0.730%  |
| 57 | 10.927 | 1475 | 1480 | 1487 | rVB  | 49034  | 83769  | 18.59%  | 1.883%  |
| 58 | 11.110 | 1509 | 1510 | 1512 | rBV2 | 2547   | 1843   | 0.41%   | 0.041%  |
| 59 | 11.232 | 1522 | 1530 | 1534 | rBV3 | 22564  | 43725  | 9.70%   | 0.983%  |
| 60 | 11.286 | 1534 | 1539 | 1543 | rBV5 | 14418  | 22720  | 5.04%   | 0.511%  |
| 61 | 11.439 | 1559 | 1564 | 1573 | rVB8 | 11141  | 26365  | 5.85%   | 0.593%  |
| 62 | 11.518 | 1575 | 1577 | 1578 | rBV  | 2270   | 1782   | 0.40%   | 0.040%  |
| 63 | 11.634 | 1589 | 1596 | 1602 | rBV  | 163514 | 287126 | 63.71%  | 6.455%  |
| 64 | 11.963 | 1648 | 1650 | 1651 | rBV  | 3911   | 3019   | 0.67%   | 0.068%  |
| 65 | 12.036 | 1656 | 1662 | 1668 | rBV6 | 5655   | 13068  | 2.90%   | 0.294%  |
| 66 | 12.134 | 1671 | 1678 | 1682 | rBV8 | 10015  | 24030  | 5.33%   | 0.540%  |
| 67 | 12.292 | 1701 | 1704 | 1705 | rBV2 | 3414   | 3496   | 0.78%   | 0.079%  |
| 68 | 12.695 | 1763 | 1770 | 1776 | rBV2 | 64960  | 116596 | 25.87%  | 2.621%  |
| 69 | 12.823 | 1789 | 1791 | 1793 | rBV2 | 2734   | 1854   | 0.41%   | 0.042%  |
| 70 | 12.841 | 1793 | 1794 | 1797 | rBV2 | 1925   | 2316   | 0.51%   | 0.052%  |
| 71 | 13.335 | 1873 | 1875 | 1877 | rBV  | 1165   | 1264   | 0.28%   | 0.028%  |

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## Integration Parameters: LSCINT.P

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 Sampling : 1  
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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  | 13.408 | 1881 | 1887 | 1893 | rVB9 | 4122  | 10353  | 2.30%  | 0.233% |
| 73  | 13.499 | 1900 | 1902 | 1906 | rBV4 | 1470  | 2262   | 0.50%  | 0.051% |
| 74  | 13.560 | 1906 | 1912 | 1918 | rBV2 | 94457 | 157359 | 34.92% | 3.537% |
| 75  | 13.646 | 1924 | 1926 | 1927 | rBV  | 2232  | 2075   | 0.46%  | 0.047% |
| 76  | 13.719 | 1936 | 1938 | 1941 | rBV  | 1870  | 2624   | 0.58%  | 0.059% |
| 77  | 13.762 | 1941 | 1945 | 1949 | rVV5 | 5916  | 9988   | 2.22%  | 0.225% |
| 78  | 13.853 | 1954 | 1960 | 1968 | rVV  | 75779 | 134369 | 29.82% | 3.021% |
| 79  | 14.231 | 2021 | 2022 | 2024 | rVB  | 2520  | 1329   | 0.29%  | 0.030% |
| 80  | 14.268 | 2024 | 2028 | 2032 | rBV5 | 3090  | 6486   | 1.44%  | 0.146% |
| 81  | 14.335 | 2037 | 2039 | 2042 | rVB2 | 1807  | 1721   | 0.38%  | 0.039% |
| 82  | 14.426 | 2051 | 2054 | 2056 | rBV3 | 1892  | 2249   | 0.50%  | 0.051% |
| 83  | 14.475 | 2060 | 2062 | 2063 | rBV2 | 1739  | 1337   | 0.30%  | 0.030% |
| 84  | 14.591 | 2078 | 2081 | 2085 | rVB2 | 1997  | 2842   | 0.63%  | 0.064% |
| 85  | 14.707 | 2097 | 2100 | 2104 | rVB4 | 1497  | 2456   | 0.54%  | 0.055% |
| 86  | 14.755 | 2104 | 2108 | 2109 | rVB2 | 2415  | 2288   | 0.51%  | 0.051% |
| 87  | 14.774 | 2109 | 2111 | 2112 | rBV  | 2387  | 1801   | 0.40%  | 0.040% |
| 88  | 14.895 | 2129 | 2131 | 2135 | rVB3 | 2213  | 2803   | 0.62%  | 0.063% |
| 89  | 14.926 | 2135 | 2136 | 2139 | rBV2 | 2629  | 2049   | 0.45%  | 0.046% |
| 90  | 15.341 | 2201 | 2204 | 2205 | rBV3 | 1459  | 1387   | 0.31%  | 0.031% |
| 91  | 15.810 | 2279 | 2281 | 2283 | rBV  | 2570  | 2947   | 0.65%  | 0.066% |
| 92  | 15.926 | 2298 | 2300 | 2303 | rVV  | 2310  | 1583   | 0.35%  | 0.036% |
| 93  | 15.956 | 2303 | 2305 | 2307 | rVB  | 2971  | 2275   | 0.50%  | 0.051% |
| 94  | 16.157 | 2335 | 2338 | 2343 | rBV3 | 2681  | 4765   | 1.06%  | 0.107% |
| 95  | 16.194 | 2343 | 2344 | 2348 | rVB  | 1904  | 1629   | 0.36%  | 0.037% |
| 96  | 16.298 | 2359 | 2361 | 2364 | rVB  | 2914  | 3490   | 0.77%  | 0.078% |
| 97  | 16.328 | 2364 | 2366 | 2367 | rBV  | 2586  | 2276   | 0.51%  | 0.051% |
| 98  | 16.365 | 2371 | 2372 | 2375 | rVB  | 1569  | 1366   | 0.30%  | 0.031% |
| 99  | 16.523 | 2397 | 2398 | 2401 | rVB  | 2349  | 1506   | 0.33%  | 0.034% |
| 100 | 16.554 | 2401 | 2403 | 2405 | rBV  | 1752  | 1365   | 0.30%  | 0.031% |

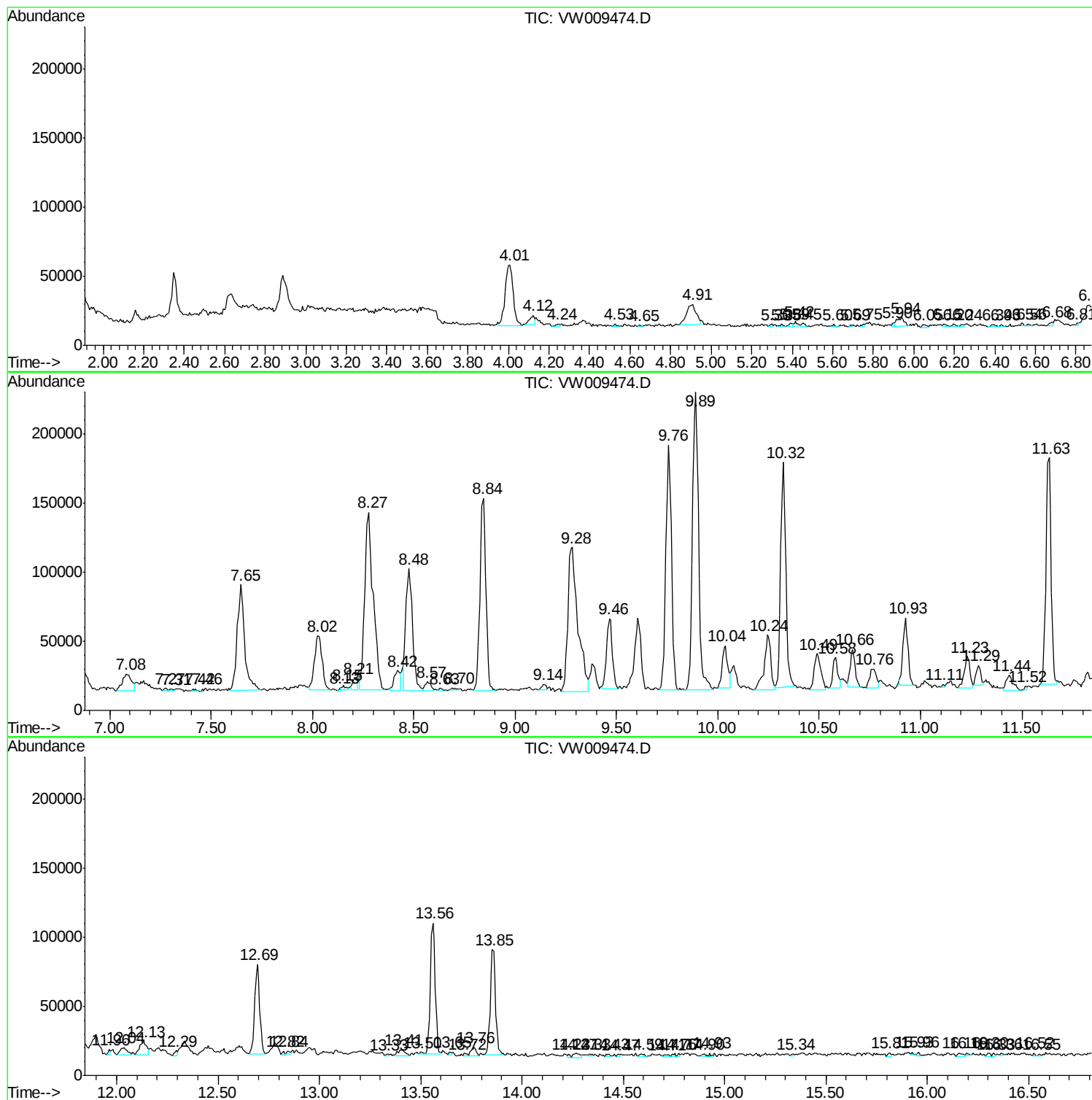
Sum of corrected areas: 4448358

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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



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
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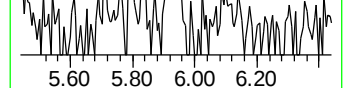
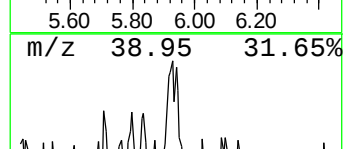
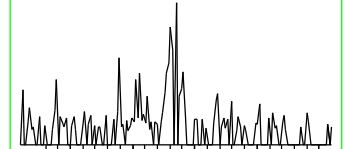
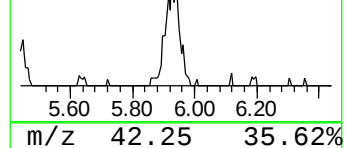
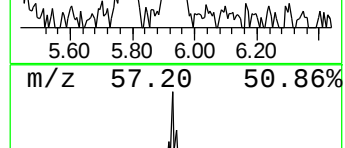
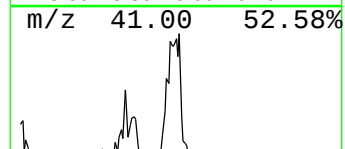
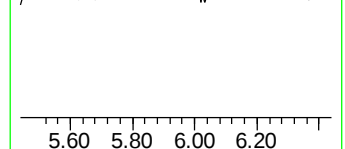
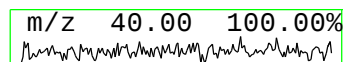
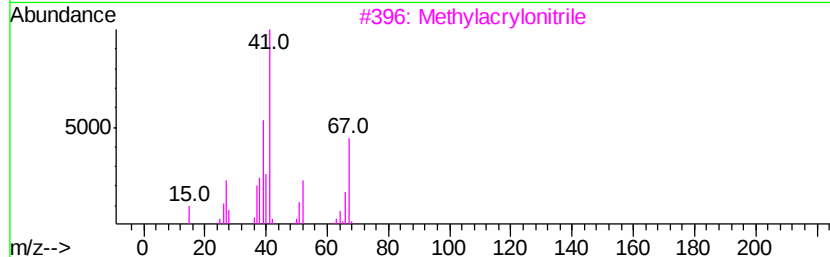
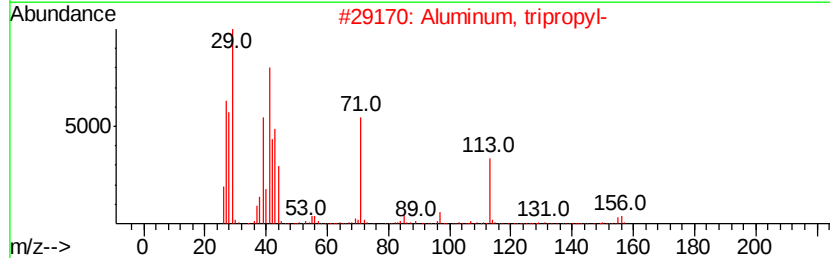
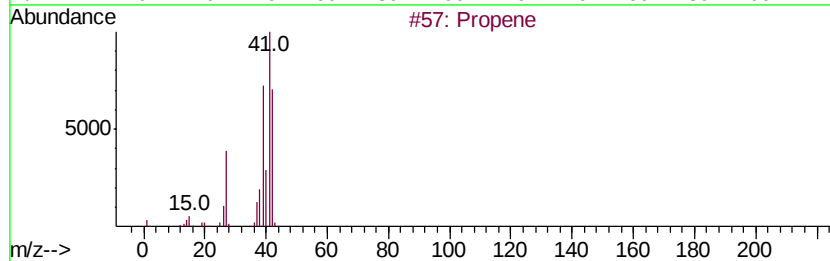
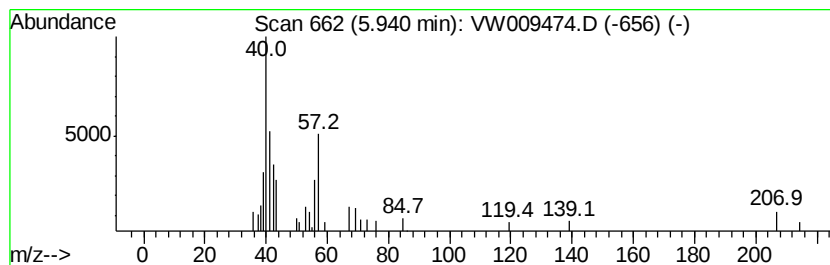
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Cyclic5.94 Concentration Rank 19

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.94 | 1.32 ug/L | 14842 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Propene              | 42  | C3H6    | 000115-07-1 | 38   |
| 2    |    | Aluminum, tripropyl- | 156 | C9H21Al | 000102-67-0 | 23   |
| 3    |    | Methvlacrylonitrile  | 67  | C4H5N   | 000126-98-7 | 18   |
| 4    |    | 2-Butenenitrile      | 67  | C4H5N   | 004786-20-3 | 18   |
| 5    |    | 2-Butenal, (E)-      | 70  | C4H6O   | 000123-73-9 | 12   |



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Quant Title : VOC Analysis

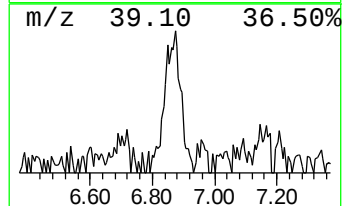
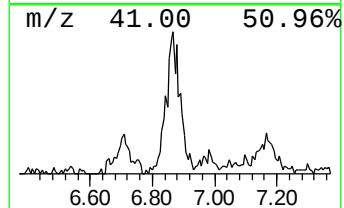
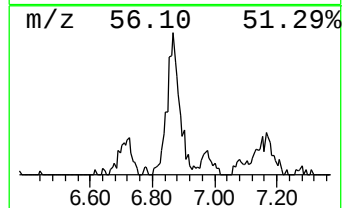
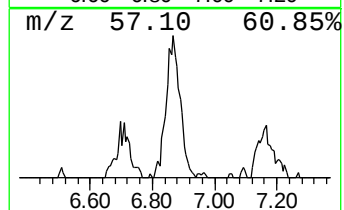
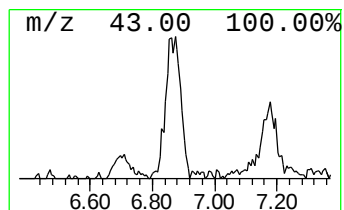
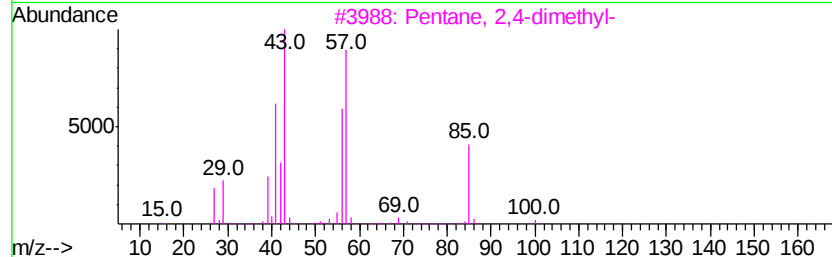
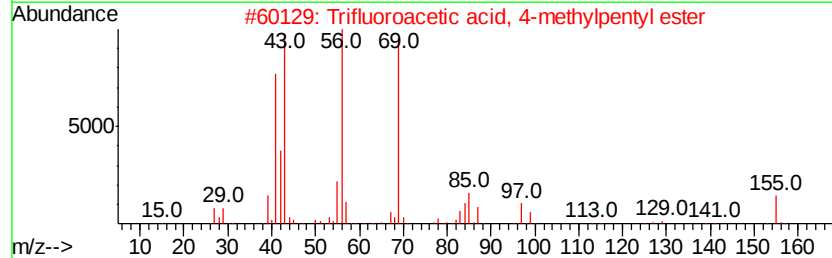
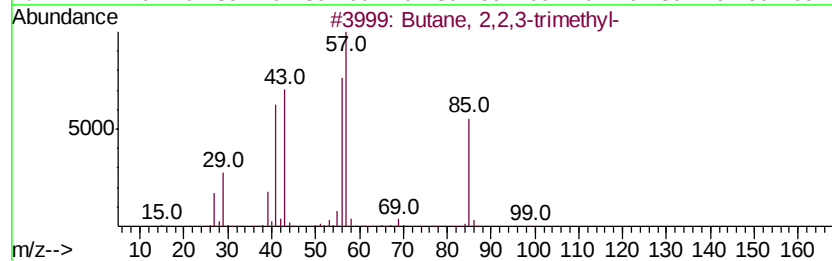
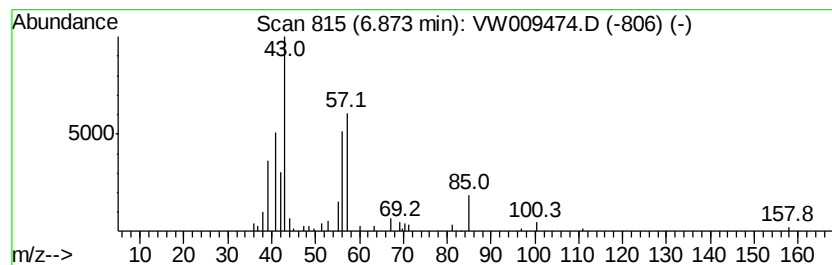
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 6.87 | 4.33 ug/L | 48732 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Butane, 2,2,3-trimethyl-            | 100 | C7H16     | 000464-06-2 | 64   |
| 2    |    | Trifluoroacetic acid, 4-methylpe... | 198 | C8H13F3O2 | 000327-71-9 | 53   |
| 3    |    | Pentane, 2,4-dimethyl-              | 100 | C7H16     | 000108-08-7 | 50   |
| 4    |    | Hydroperoxide, hexyl                | 118 | C6H14O2   | 004312-76-9 | 50   |
| 5    |    | 1-Heptene                           | 98  | C7H14     | 000592-76-7 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

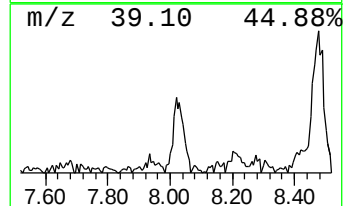
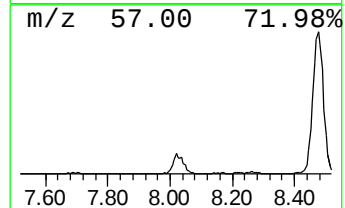
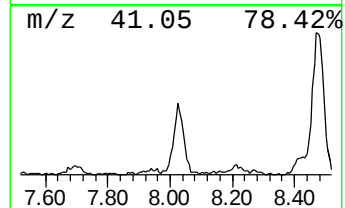
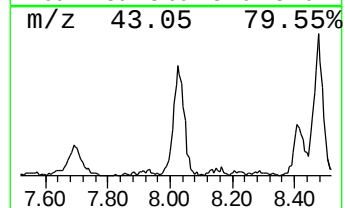
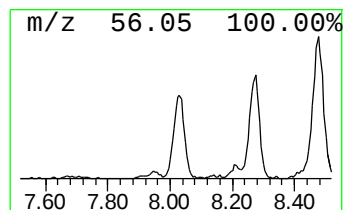
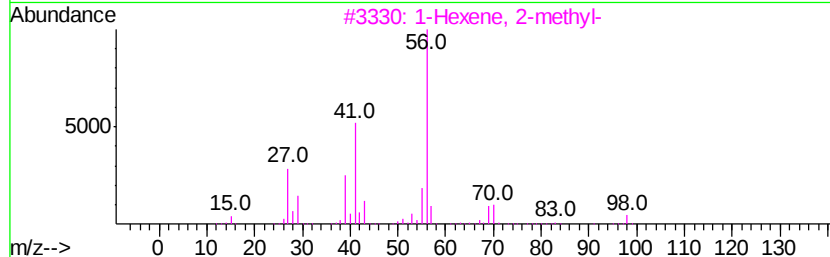
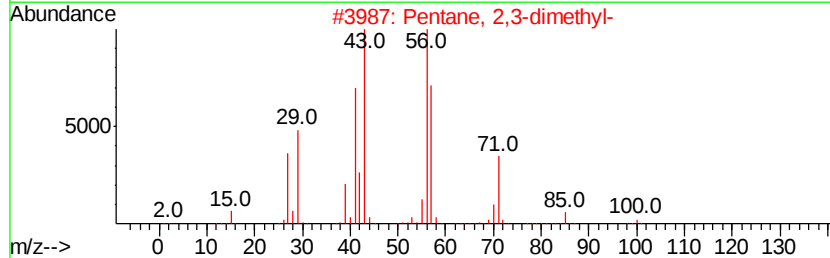
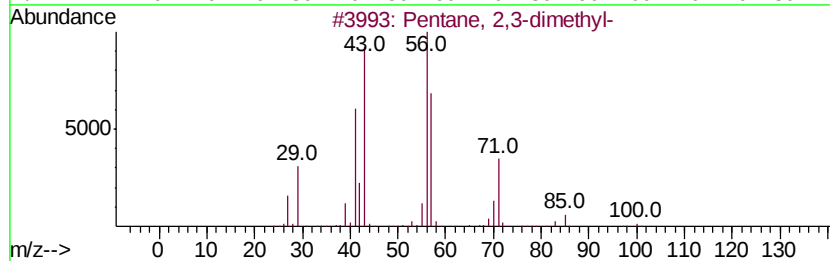
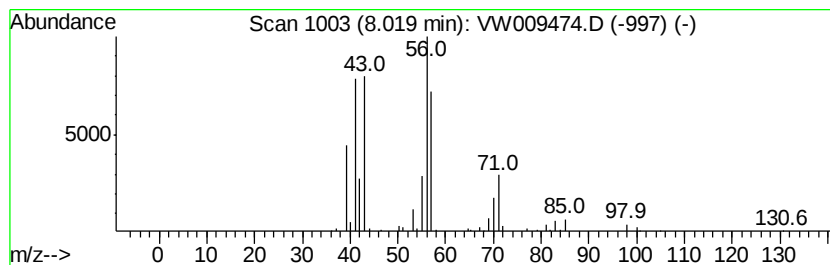
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 8.02 | 9.16 ug/L | 103192 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3-dimethyl- | 100 | C7H16   | 000565-59-3 | 72   |
| 2    |    | Pentane, 2,3-dimethyl- | 100 | C7H16   | 000565-59-3 | 58   |
| 3    |    | 1-Hexene, 2-methyl-    | 98  | C7H14   | 006094-02-6 | 50   |
| 4    |    | Butane, 1-isocvanato-  | 99  | C5H9NO  | 000111-36-4 | 50   |
| 5    |    | 1-Hexene, 5-methyl-    | 98  | C7H14   | 003524-73-0 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

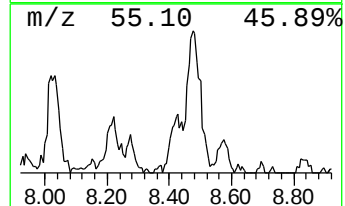
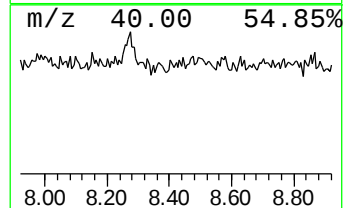
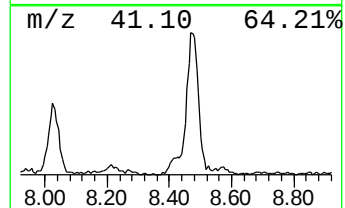
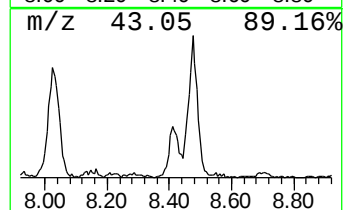
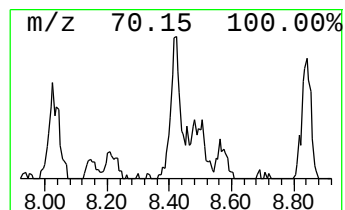
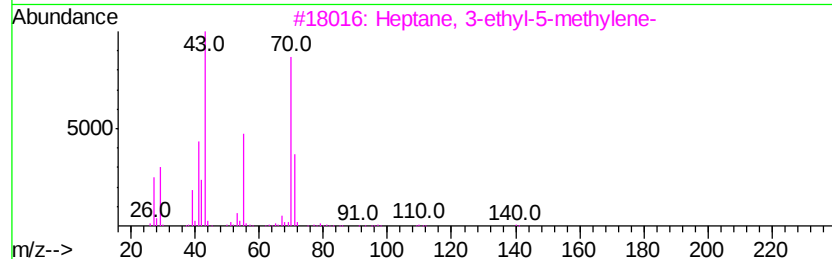
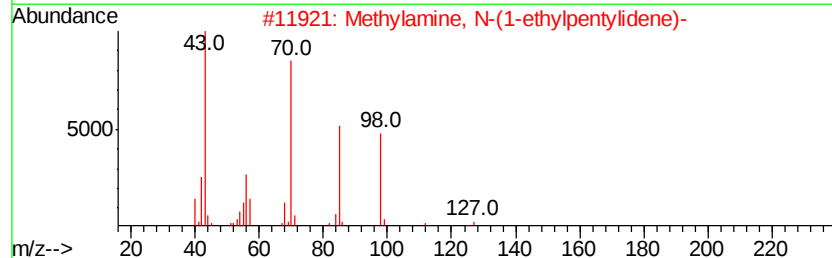
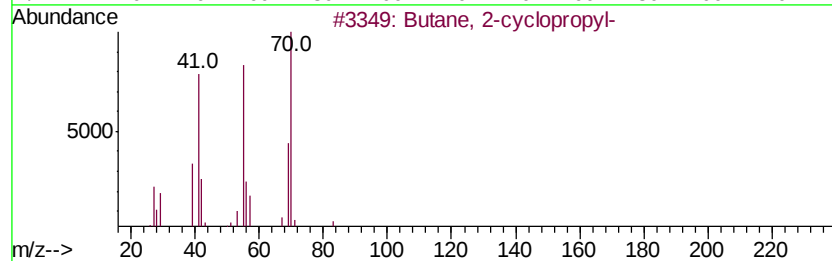
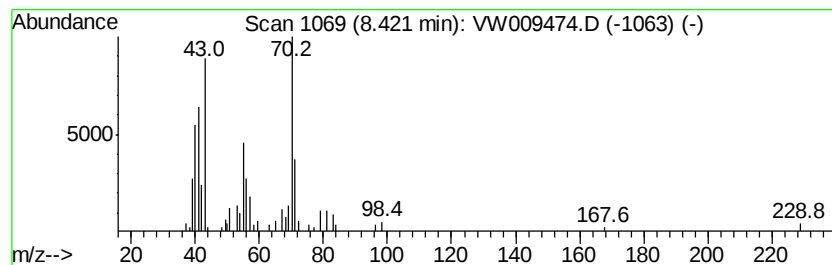
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Cyclic8.42 Concentration Rank 13

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 8.42 | 2.66 ug/L | 29953 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Butane, 2-cyclopropyl-               | 98  | C7H14   | 005750-02-7  | 59   |
| 2    |    | Methylamine, N-(1-ethylpentylidene)- | 127 | C8H17N  | 018641-73-1  | 59   |
| 3    |    | Heptane, 3-ethyl-5-methylene-        | 140 | C10H20  | 1000160-41-7 | 53   |
| 4    |    | Heptane, 3-methylene-                | 112 | C8H16   | 001632-16-2  | 53   |
| 5    |    | 2-Cyclohexen-1-ol                    | 98  | C6H10O  | 000822-67-3  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

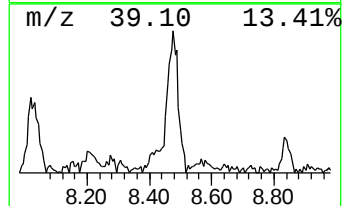
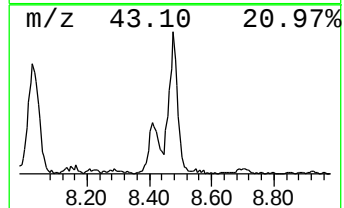
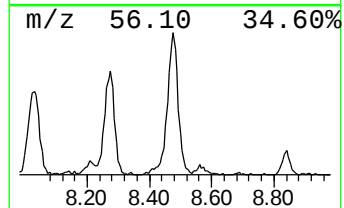
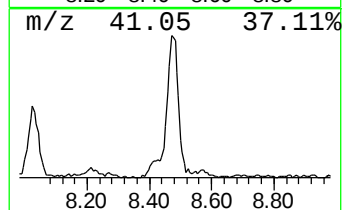
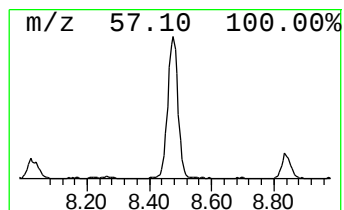
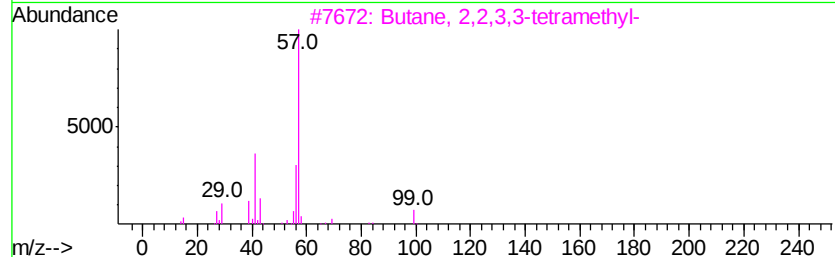
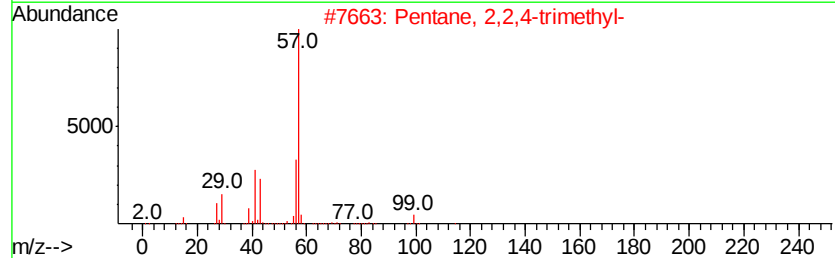
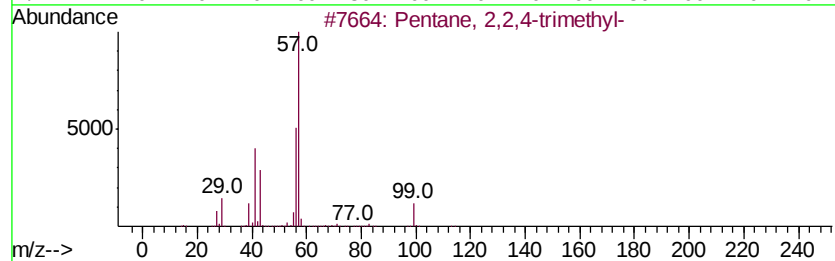
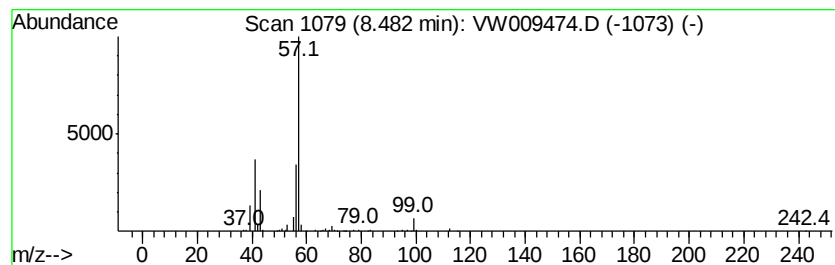
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 8.48 | 18.39 ug/L | 207141 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|-----------|------------------------------|-----|---------|-------------|------|
| 1         | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 64   |
| 2         | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 59   |
| 3         | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 50   |
| 4         | Heptane, 2,2,4-trimethyl-    | 142 | C10H22  | 014720-74-2 | 45   |
| 5         | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 45   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

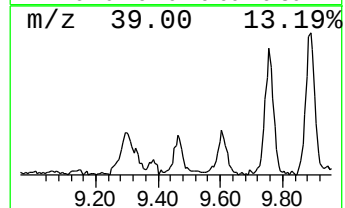
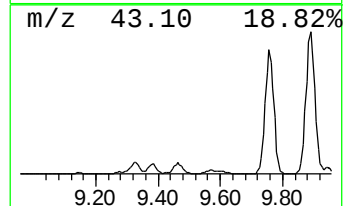
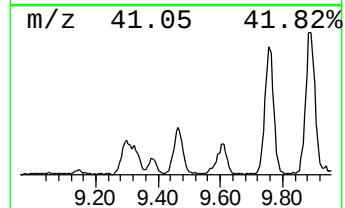
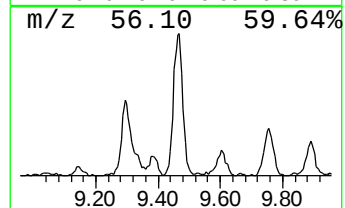
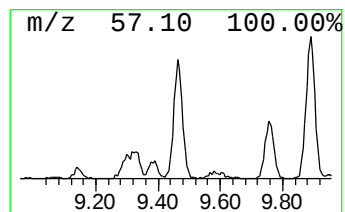
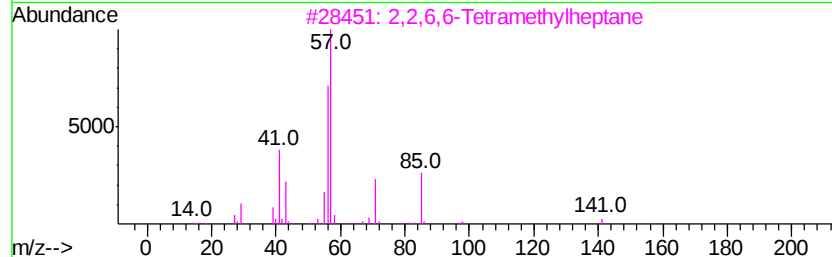
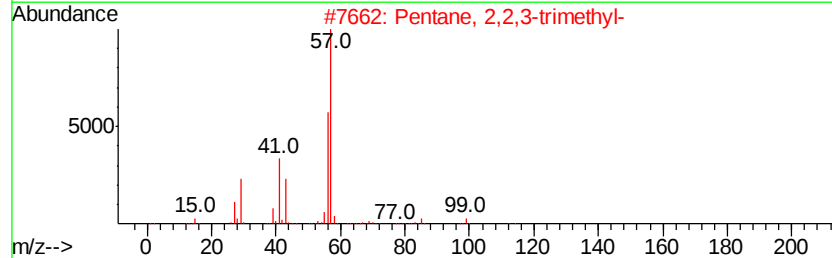
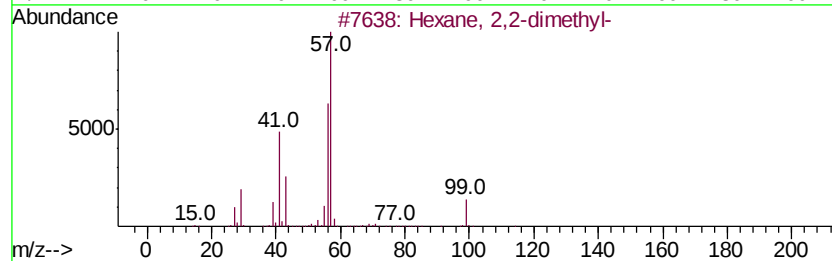
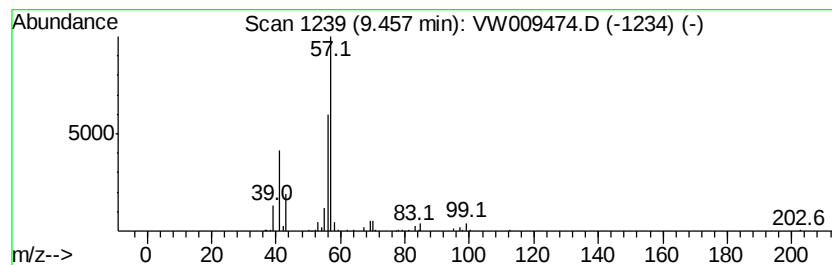
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 9.46 | 9.10 ug/L | 102440 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 2,2-dimethyl-          | 114 | C8H18   | 000590-73-8 | 78   |
| 2    |    | Pentane, 2,2,3-trimethyl-      | 114 | C8H18   | 000564-02-3 | 78   |
| 3    |    | 2,2,6,6-Tetramethylheptane     | 156 | C11H24  | 040117-45-1 | 78   |
| 4    |    | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 72   |
| 5    |    | Butane, 2,2,3-trimethyl-       | 100 | C7H16   | 000464-06-2 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

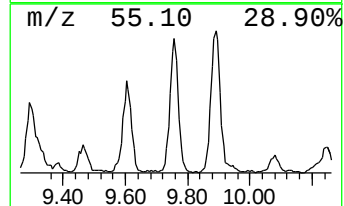
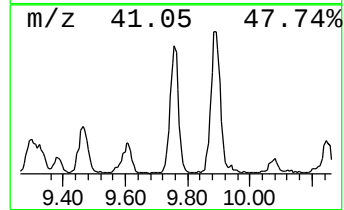
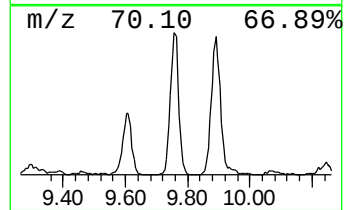
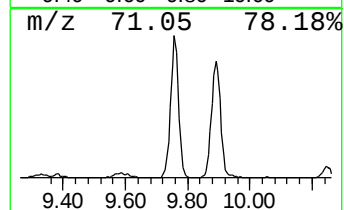
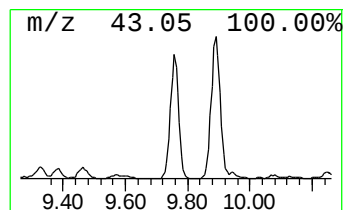
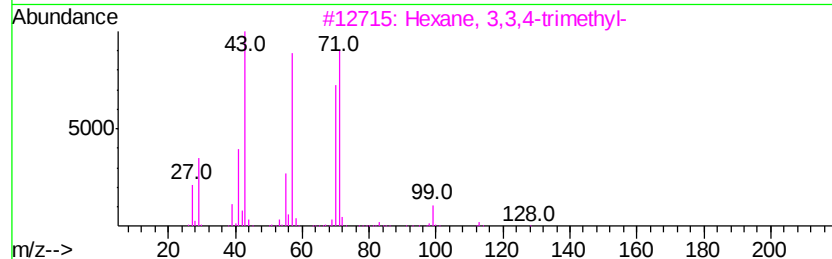
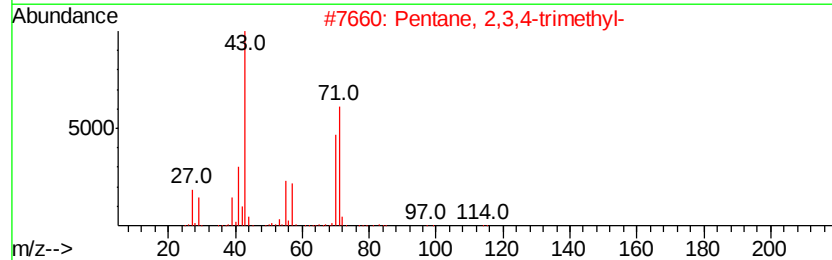
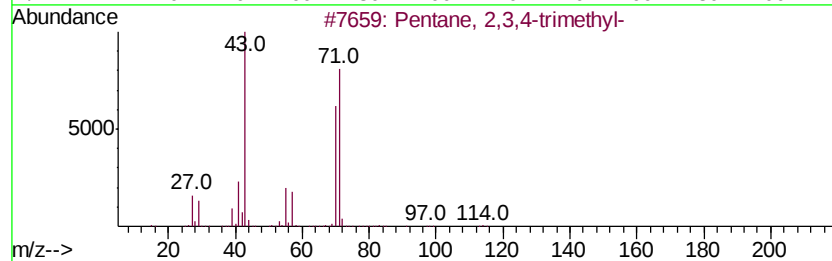
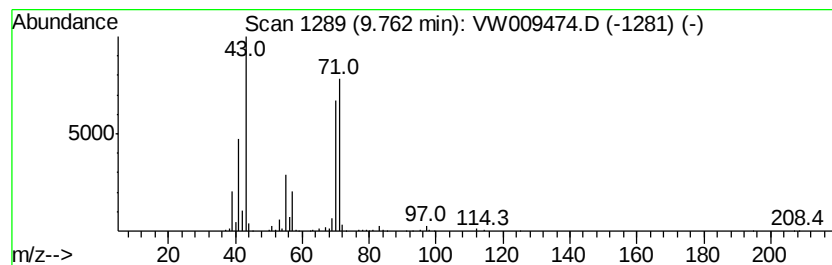
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 9.76 | 30.04 ug/L | 338340 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentane, 2,3,4-trimethyl-           | 114 | C8H18    | 000565-75-3 | 90   |
| 2    |    | Pentane, 2,3,4-trimethyl-           | 114 | C8H18    | 000565-75-3 | 78   |
| 3    |    | Hexane, 3,3,4-trimethyl-            | 128 | C9H20    | 016747-31-2 | 74   |
| 4    |    | Propan-1,3-dioic acid, di[3-meth... | 244 | C13H24O4 | 064617-96-5 | 72   |
| 5    |    | 3,3-Dimethyl-2-pentanol             | 116 | C7H16O   | 019781-24-9 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

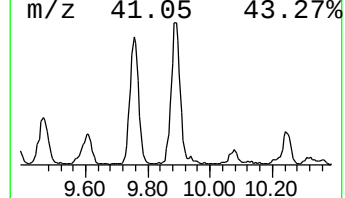
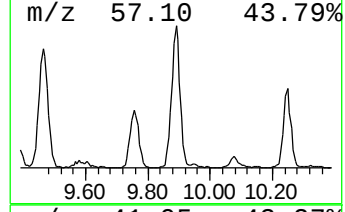
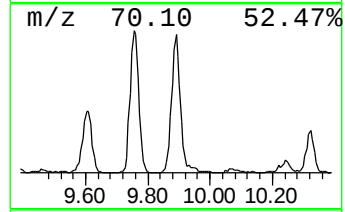
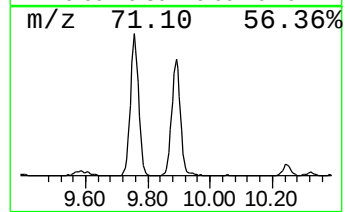
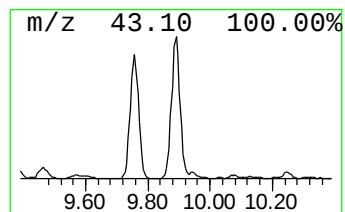
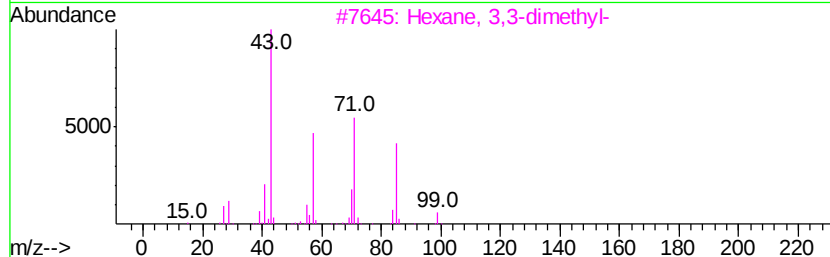
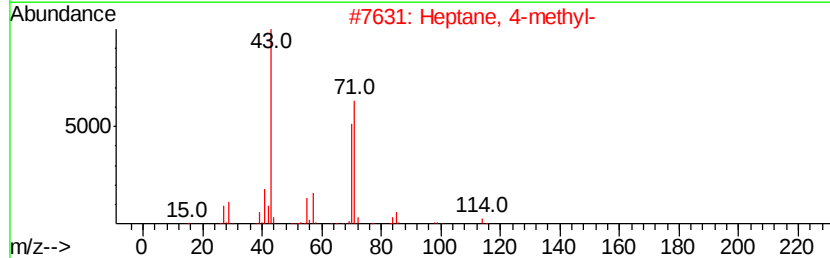
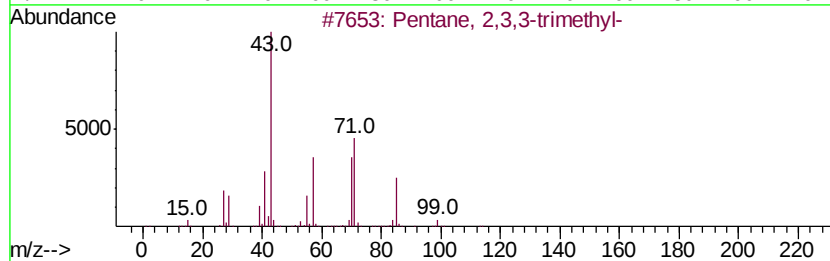
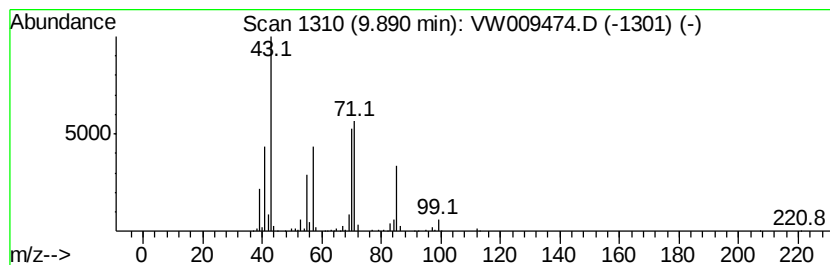
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 9.89 | 40.01 ug/L | 450661 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 83   |
| 2    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 64   |
| 3    |    |   | Hexane, 3,3-dimethyl-     | 114 | C8H18   | 000563-16-6 | 59   |
| 4    |    |   | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 59   |
| 5    |    |   | Hexane, 3,3,4-trimethyl-  | 128 | C9H20   | 016747-31-2 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

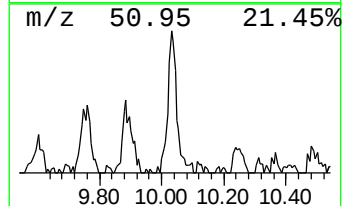
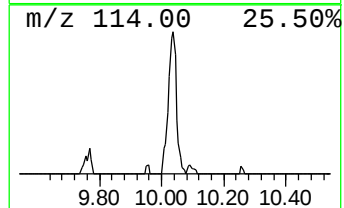
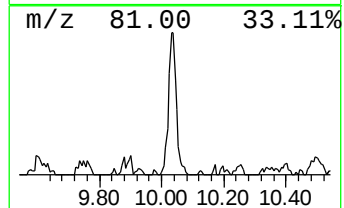
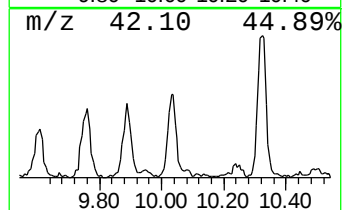
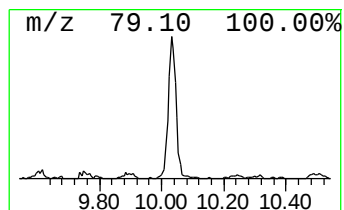
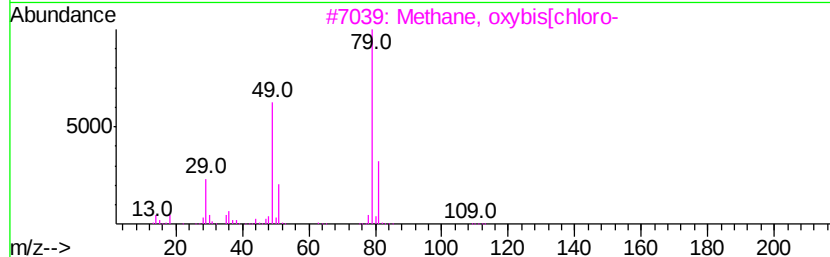
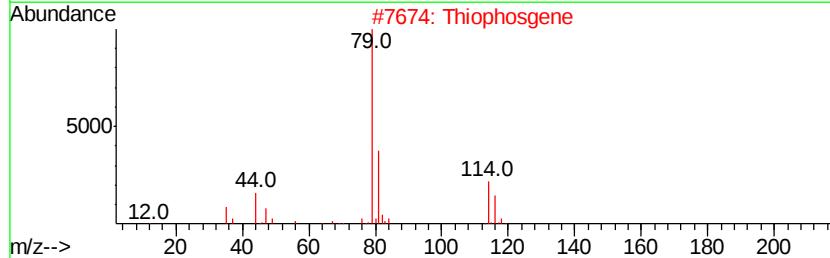
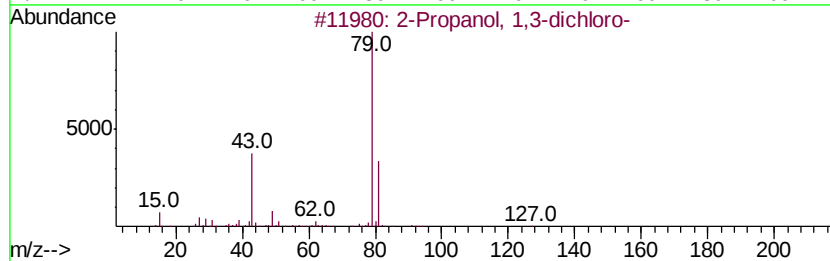
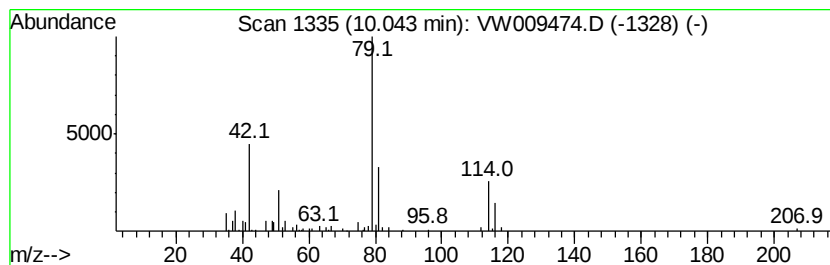
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown-02 Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T. |
|-------|-----------|-------|---------------------|------|
| 10.04 | 5.15 ug/L | 58059 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|------|-------------------------------------|---|--------------|-----|----------|-------------|------|
| 1    | 2-Propanol, 1,3-dichloro-           |   |              | 128 | C3H6Cl2O | 000096-23-1 | 25   |
| 2    | Thiophosgene                        |   |              | 114 | CCl2S    | 000463-71-8 | 25   |
| 3    | Methane, oxvbis[chloro-             |   |              | 114 | C2H4Cl2O | 000542-88-1 | 25   |
| 4    | .alpha.,.alpha.-Dichloromethyl m... |   |              | 114 | C2H4Cl2O | 004885-02-3 | 23   |
| 5    | 2-Propanol, 1,3-dichloro-           |   |              | 128 | C3H6Cl2O | 000096-23-1 | 17   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

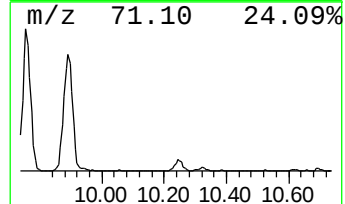
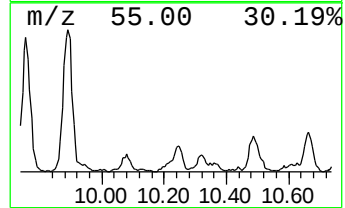
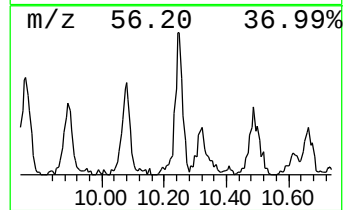
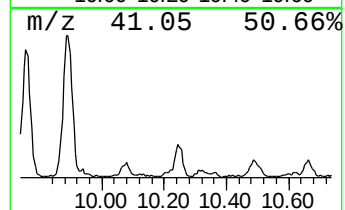
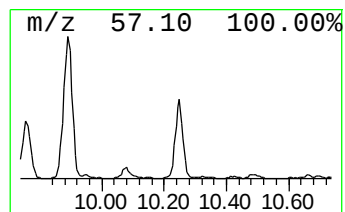
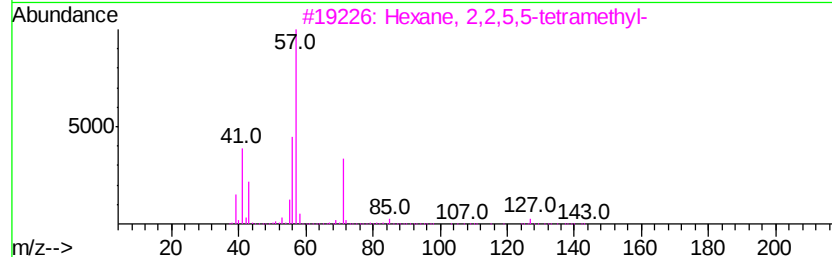
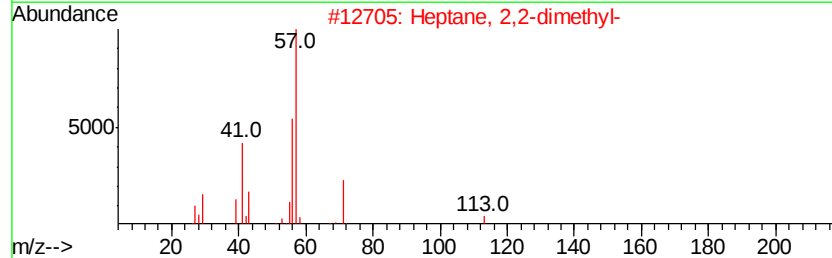
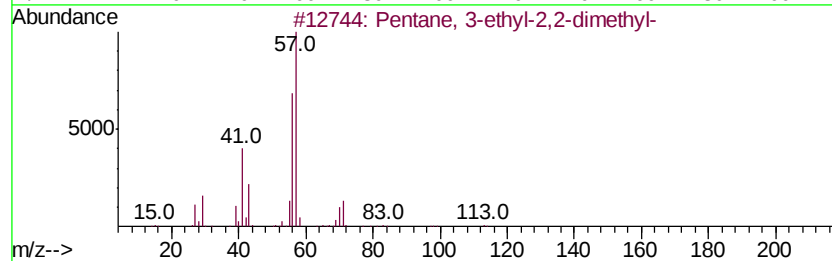
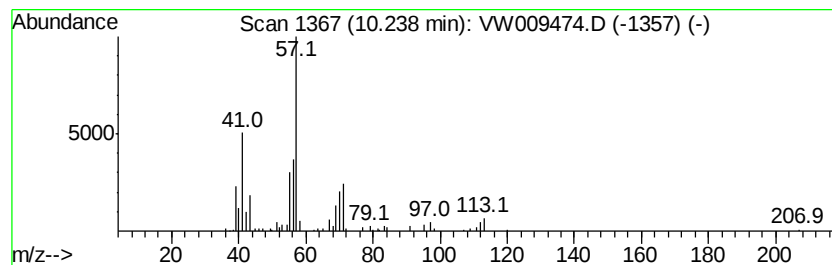
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Pentane, 3-ethyl-2,2-dimethyl- Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 10.24 | 7.82 ug/L | 89812 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 53   |
| 2    |    | Heptane, 2,2-dimethyl-         | 128 | C9H20   | 001071-26-7 | 53   |
| 3    |    | Hexane, 2,2,5,5-tetramethyl-   | 142 | C10H22  | 001071-81-4 | 50   |
| 4    |    | Hexane, 2,2,5-trimethyl-       | 128 | C9H20   | 003522-94-9 | 45   |
| 5    |    | Hexane, 2,2,5-trimethyl-       | 128 | C9H20   | 003522-94-9 | 45   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

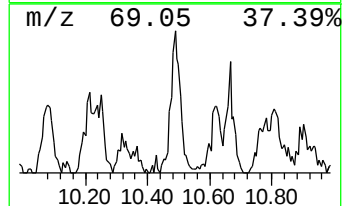
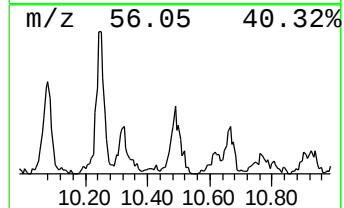
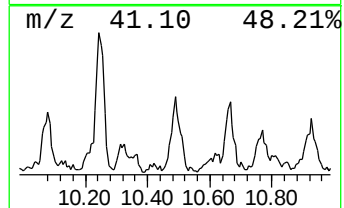
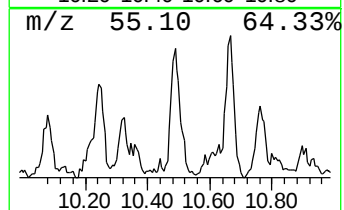
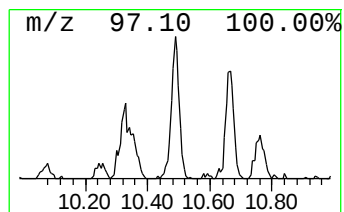
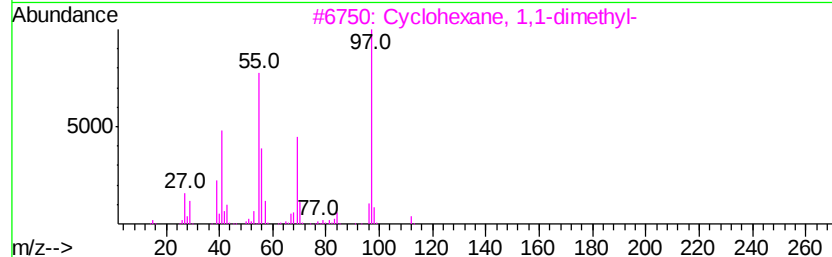
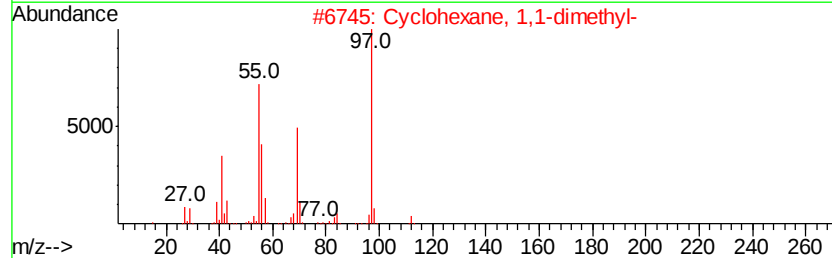
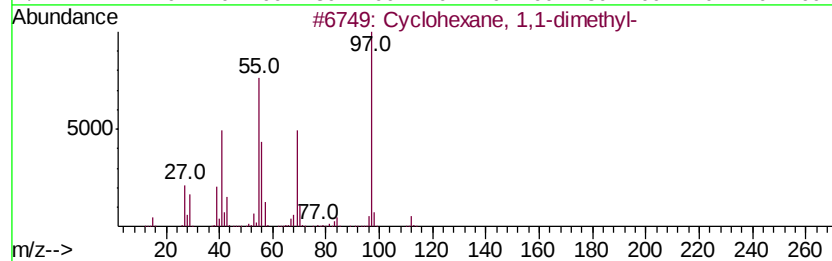
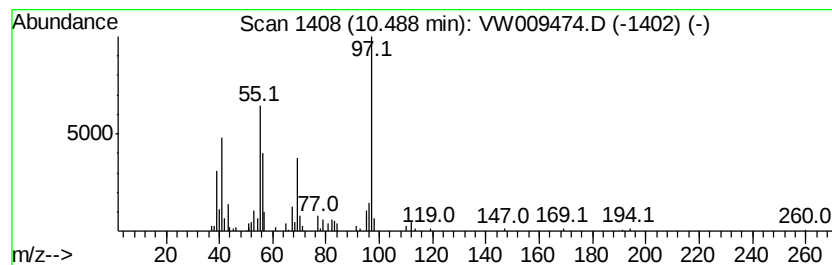
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

\*\*\*\*\*  
Peak Number 11 Cyclohexane, 1,1-dimethyl- Concentration Rank 7

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|-----------|-------------------------------------|------------------|---------|-------------|------|
| 10.49   | 5.23 ug/L | 60067                               | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |           | Cvclohexane, 1,1-dimethyl-          | 112              | C8H16   | 000590-66-9 | 93   |
| 2       |           | Cvclohexane, 1,1-dimethyl-          | 112              | C8H16   | 000590-66-9 | 81   |
| 3       |           | Cvclohexane, 1,1-dimethyl-          | 112              | C8H16   | 000590-66-9 | 76   |
| 4       |           | 1H-Pyrazole, 4,5-dihydro-3,5,5-t... | 112              | C6H12N2 | 003975-85-7 | 72   |
| 5       |           | Sorbic Acid                         | 112              | C6H8O2  | 000110-44-1 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

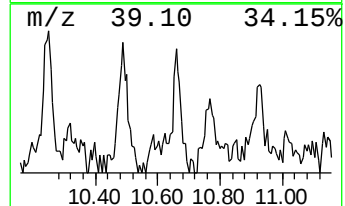
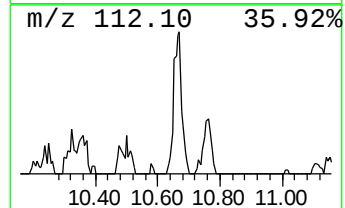
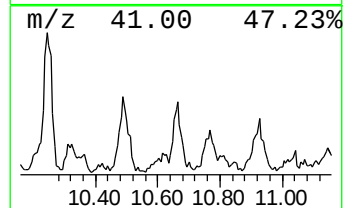
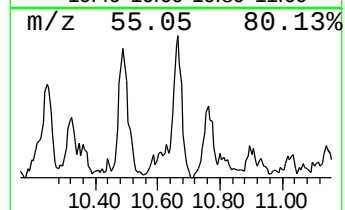
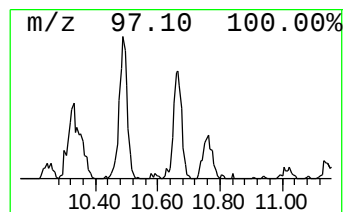
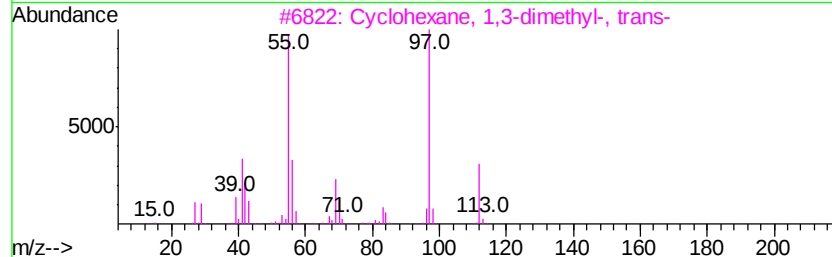
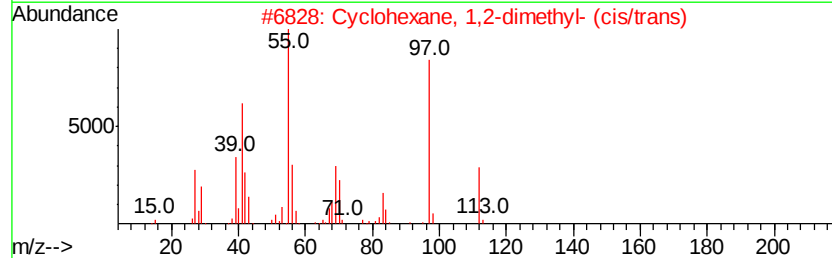
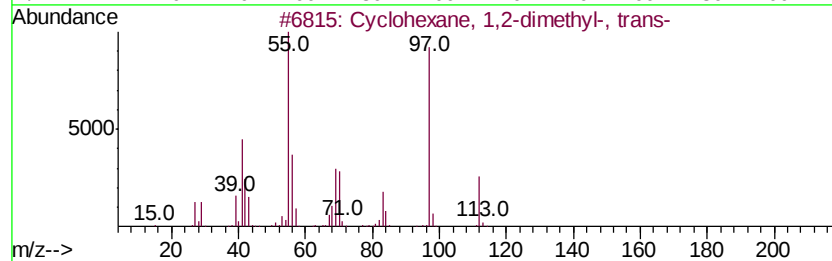
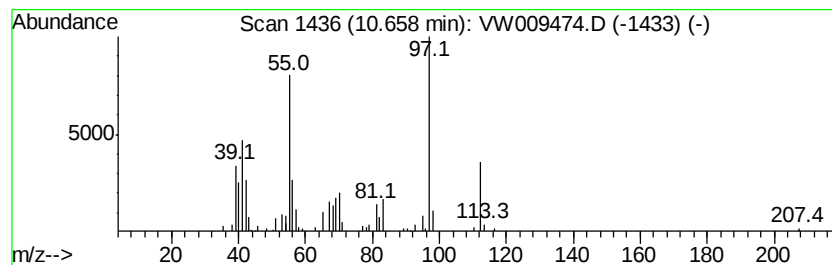
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 10.66 | 3.97 ug/L | 45594 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 87   |
| 2    |    | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 80   |
| 3    |    | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 80   |
| 4    |    | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 80   |
| 5    |    | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

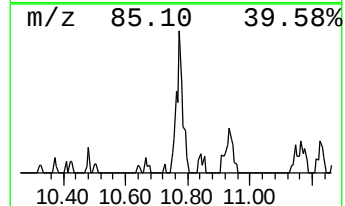
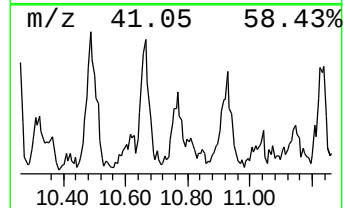
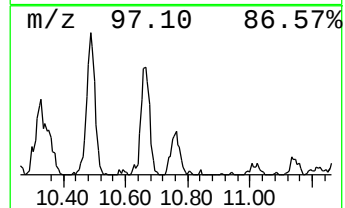
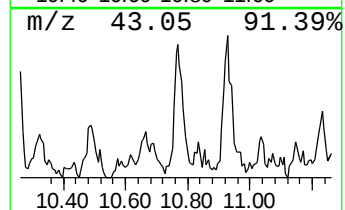
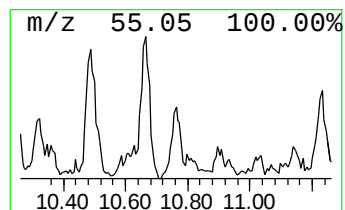
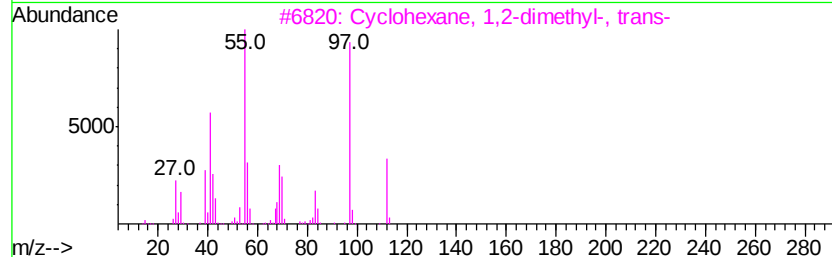
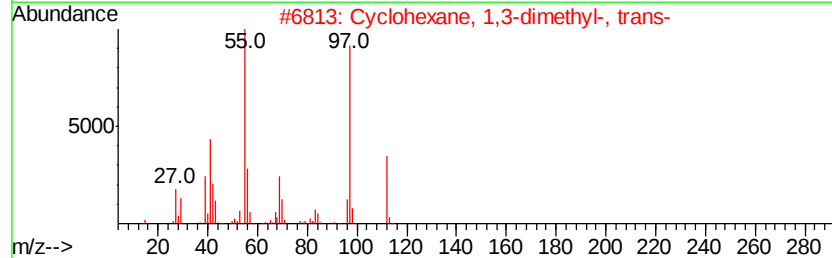
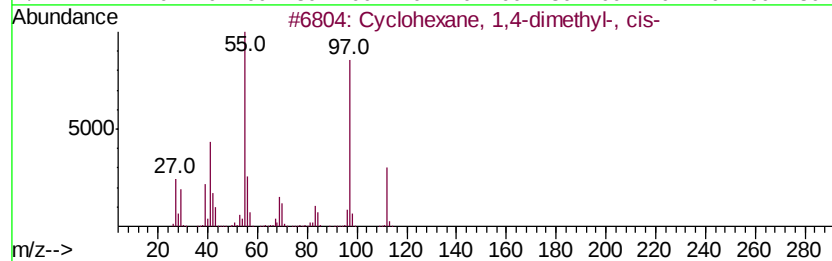
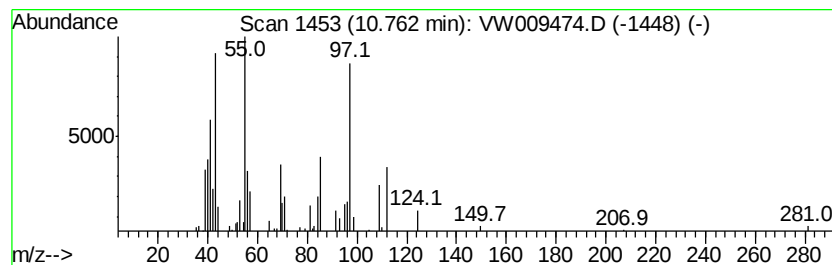
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 10.76 | 2.83 ug/L | 32486 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16   | 000624-29-3 | 50   |
| 2    |    | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 50   |
| 3    |    | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 45   |
| 4    |    | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 45   |
| 5    |    | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 45   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

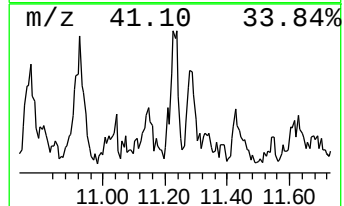
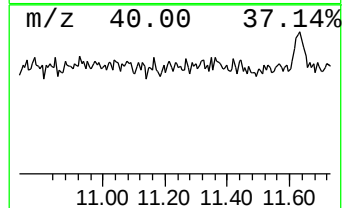
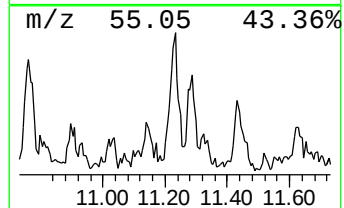
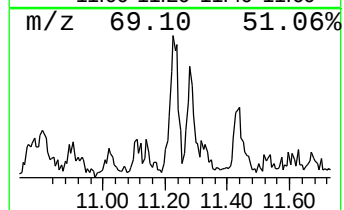
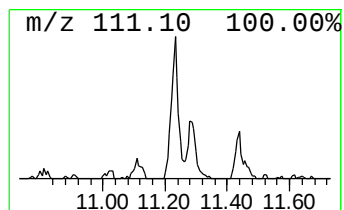
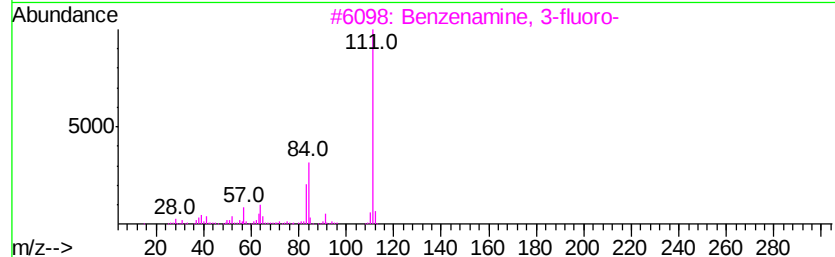
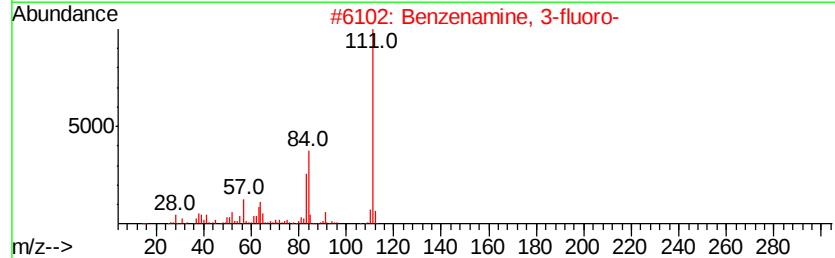
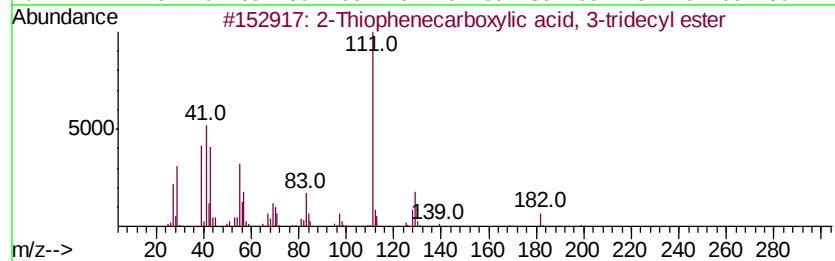
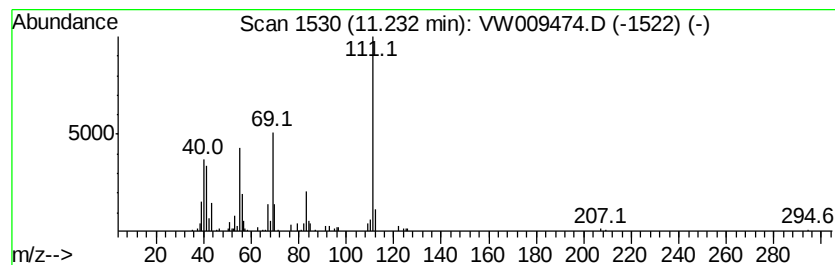
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 2-Thiophenecarboxylic acid,... Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.23 | 3.81 ug/L | 43725 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 2-Thiophenecarboxylic acid, 3-tr...  | 310 | C18H30O2S | 1000280-66-0 | 64   |
| 2    |    | Benzenamine, 3-fluoro-               | 111 | C6H6FN    | 000372-19-0  | 59   |
| 3    |    | Benzenamine, 3-fluoro-               | 111 | C6H6FN    | 000372-19-0  | 59   |
| 4    |    | p-Fluoroaniline                      | 111 | C6H6FN    | 000371-40-4  | 59   |
| 5    |    | Cyclohexane, 1,2,4-trimethyl-, (...) | 126 | C9H18     | 007667-60-9  | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

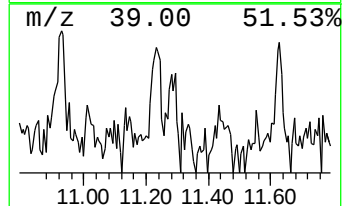
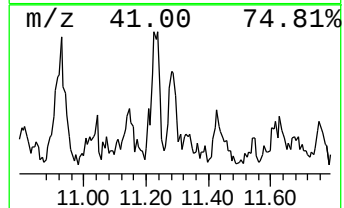
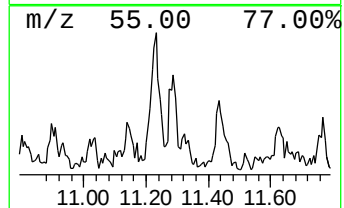
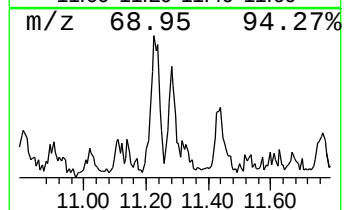
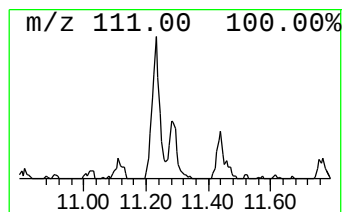
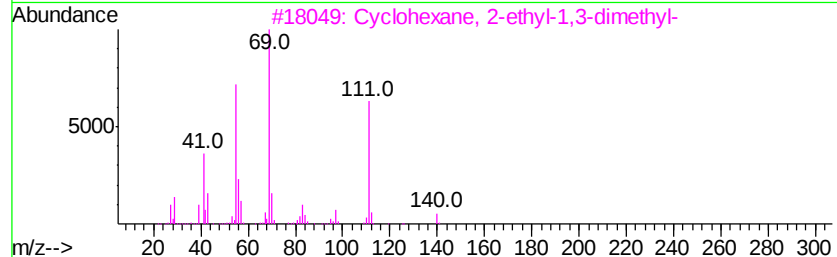
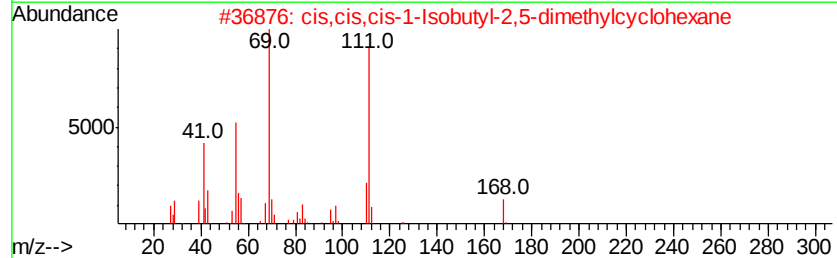
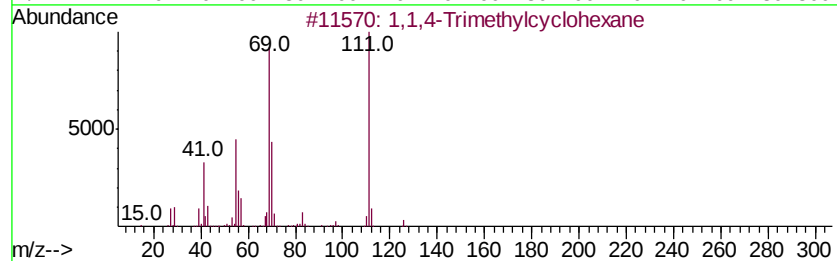
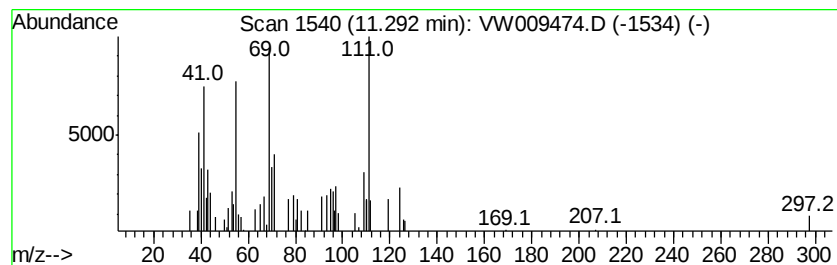
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 1,1,4-Trimethylcyclohexane Concentration Rank 16

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 11.29 | 1.98 ug/L | 22720 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1,1,4-Trimethylcyclohexane           | 126 | C9H18   | 007094-27-1  | 58   |
| 2    |    |   | cis,cis,cis-1-Isobutyl-2,5-dimet...  | 168 | C12H24  | 1000113-60-0 | 47   |
| 3    |    |   | Cyclohexane, 2-ethyl-1,3-dimethyl-   | 140 | C10H20  | 007045-67-2  | 47   |
| 4    |    |   | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3  | 47   |
| 5    |    |   | Cyclohexane, 1-ethyl-1,3-dimethyl... | 140 | C10H20  | 062238-29-3  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

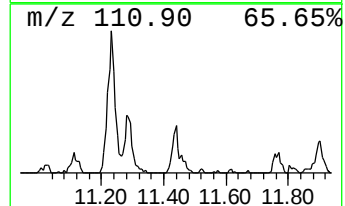
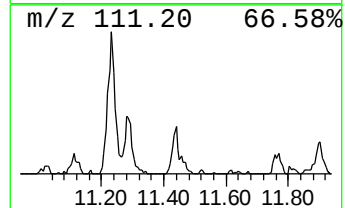
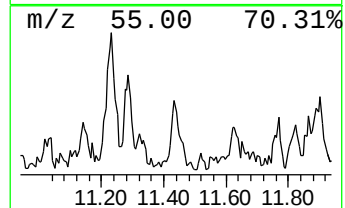
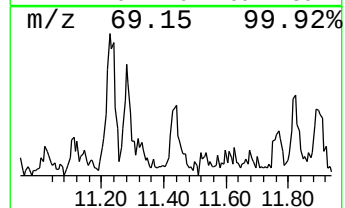
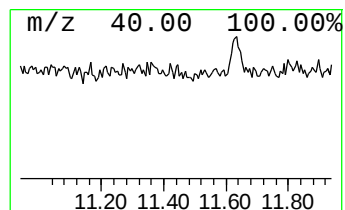
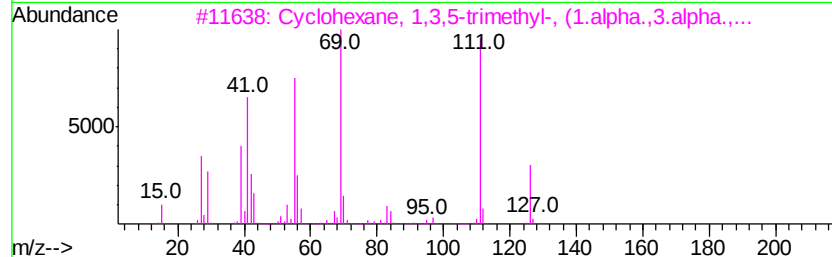
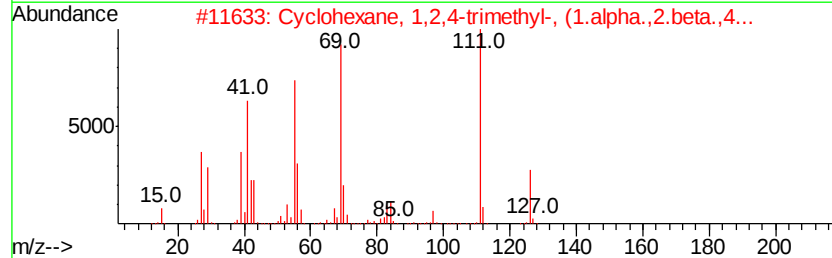
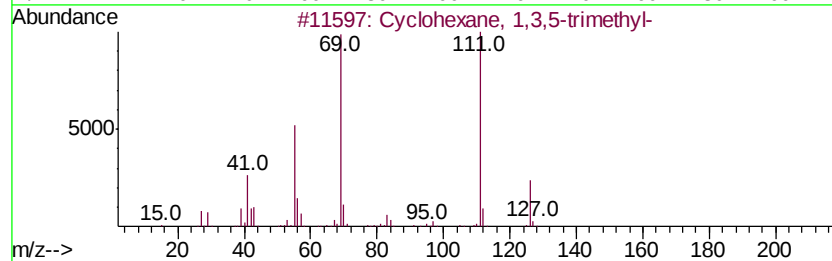
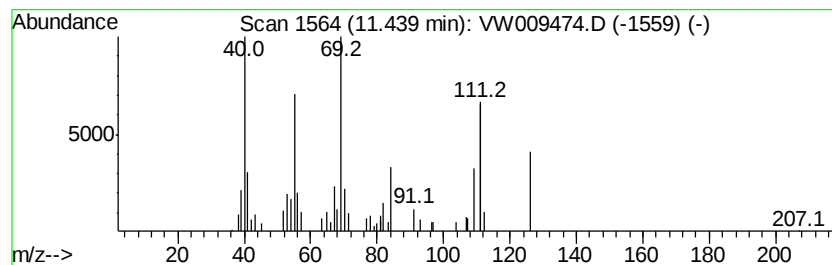
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

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Peak Number 16 Cyclohexane, 1,3,5-trimethyl- Concentration Rank 14

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|-----------|-------------------------------------|------------------|---------|-------------|------|
| 11.44   | 2.30 ug/L | 26365                               | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |           | Cvclohexane, 1,3,5-trimethyl-       | 126              | C9H18   | 001839-63-0 | 64   |
| 2       |           | Cvclohexane, 1,2,4-trimethyl-, (... | 126              | C9H18   | 007667-60-9 | 59   |
| 3       |           | Cvclohexane, 1,3,5-trimethyl-, (... | 126              | C9H18   | 001795-26-2 | 59   |
| 4       |           | Cvclohexane, 1,3,5-trimethyl-       | 126              | C9H18   | 001839-63-0 | 59   |
| 5       |           | Cvclohexane, 1,3,5-trimethyl-, (... | 126              | C9H18   | 001795-27-3 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW032619\  
Data File : VW009474.D  
Acq On : 26 Mar 2019 20:27  
Operator : SY/VA  
Sample : K2044-15RE  
Misc : 4.87G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5W4RE

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

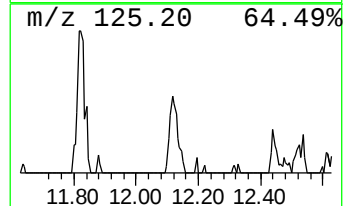
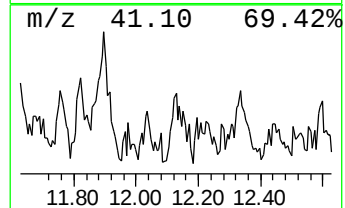
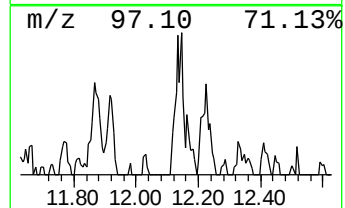
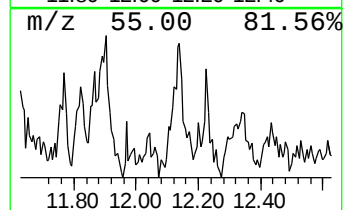
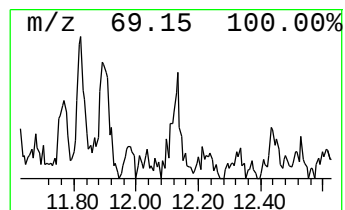
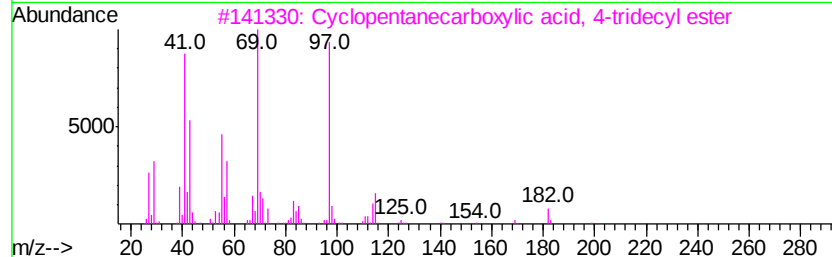
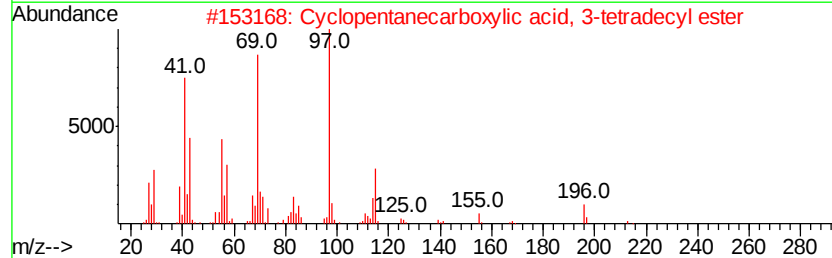
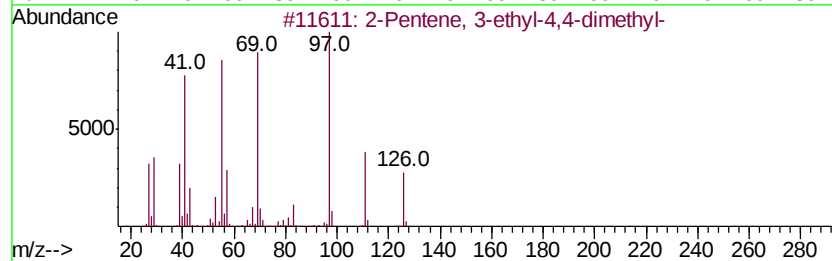
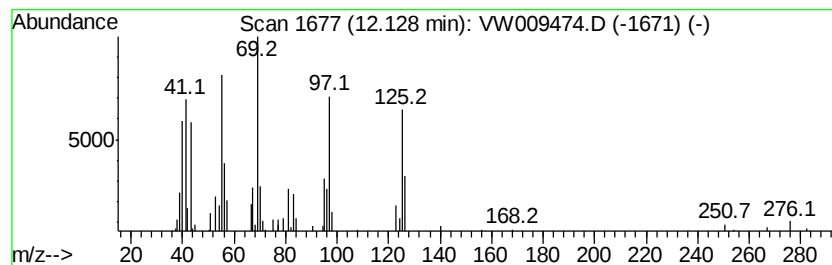
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown-03 Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.13 | 2.09 ug/L | 24030 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 2-Pentene, 3-ethyl-4,4-dimethyl-     | 126 | C9H18    | 053907-59-8  | 49   |
| 2    |    |   | Cyclopentanecarboxylic acid, 3-t...  | 310 | C20H38O2 | 1000280-58-8 | 43   |
| 3    |    |   | Cyclopentanecarboxylic acid, 4-t...  | 296 | C19H36O2 | 1000280-58-6 | 43   |
| 4    |    |   | Cyclohexane, 1,2,3-trimethyl-        | 126 | C9H18    | 001678-97-3  | 43   |
| 5    |    |   | Cyclohexane, 1,2,3-trimethyl-, (...) | 126 | C9H18    | 007667-55-2  | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW032619\  
 Data File : VW009474.D  
 Acq On : 26 Mar 2019 20:27  
 Operator : SY/VA  
 Sample : K2044-15RE  
 Misc : 4.87G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5W4RE

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... | 5.94  | 1.3     | ug/L  | 14842    | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 6.87  | 4.3     | ug/L  | 48732    | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 8.02  | 9.2     | ug/L  | 103192   | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Cyc... | 8.42  | 2.7     | ug/L  | 29953    | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 8.48  | 18.4    | ug/L  | 207141   | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 9.46  | 9.1     | ug/L  | 102440   | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 9.76  | 30.0    | ug/L  | 338340   | 1                     | 8.84  | 281570 | 25.0 |
| (DEL) Alkane: Str... | 9.89  | 40.0    | ug/L  | 450661   | 1                     | 8.84  | 281570 | 25.0 |
| unknown-02           | 10.04 | 5.2     | ug/L  | 58059    | 1                     | 8.84  | 281570 | 25.0 |
| Pentane, 3-ethyl-... | 10.24 | 7.8     | ug/L  | 89812    | 2                     | 11.63 | 287126 | 25.0 |
| Cyclohexane, 1,1-... | 10.49 | 5.2     | ug/L  | 60067    | 2                     | 11.63 | 287126 | 25.0 |
| Cyclohexane, 1,2-... | 10.66 | 4.0     | ug/L  | 45594    | 2                     | 11.63 | 287126 | 25.0 |
| Cyclohexane, 1,4-... | 10.76 | 2.8     | ug/L  | 32486    | 2                     | 11.63 | 287126 | 25.0 |
| 2-Thiophenecarbox... | 11.23 | 3.8     | ug/L  | 43725    | 2                     | 11.63 | 287126 | 25.0 |
| 1,1,4-Trimethylcy... | 11.29 | 2.0     | ug/L  | 22720    | 2                     | 11.63 | 287126 | 25.0 |
| Cyclohexane, 1,3,... | 11.44 | 2.3     | ug/L  | 26365    | 2                     | 11.63 | 287126 | 25.0 |
| unknown-03           | 12.13 | 2.1     | ug/L  | 24030    | 2                     | 11.63 | 287126 | 25.0 |