

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
 Data File : VW013510.D  
 Acq On : 09 Oct 2019 17:53  
 Operator : SY/VA  
 Sample : K5292-03  
 Misc : 5.09G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20190855-AMENDED-COMP-B

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\82W100819S.M  
 Title : SW846 8260

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         | 2.501       | 93            | 98          | 107          | rBV      | 8150           | 23747         | 1.36%           | 0.137%        |
| 2         | 4.196       | 357           | 376         | 396          | rBV      | 308720         | 967200        | 55.45%          | 5.574%        |
| 3         | 4.379       | 396           | 406         | 418          | rVB      | 53982          | 158861        | 9.11%           | 0.915%        |
| 4         | 4.922       | 481           | 495         | 496          | rBV4     | 9726           | 27327         | 1.57%           | 0.157%        |
| 5         | 5.934       | 652           | 661         | 672          | rVB3     | 6444           | 18576         | 1.07%           | 0.107%        |
| 6         | 7.147       | 850           | 860         | 877          | rBV2     | 26128          | 91486         | 5.25%           | 0.527%        |
| 7         | 7.884       | 971           | 981         | 985          | rBV      | 144768         | 349088        | 20.01%          | 2.012%        |
| 8         | 7.945       | 985           | 991         | 1000         | rVV      | 413053         | 939419        | 53.86%          | 5.414%        |
| 9         | 8.025       | 1000          | 1004        | 1015         | rVV4     | 15757          | 40326         | 2.31%           | 0.232%        |
| 10        | 8.153       | 1017          | 1025        | 1031         | rVV3     | 30719          | 71970         | 4.13%           | 0.415%        |
| 11        | 8.256       | 1031          | 1042        | 1044         | rVV      | 45618          | 116380        | 6.67%           | 0.671%        |
| 12        | 8.305       | 1044          | 1050        | 1062         | rVV      | 175985         | 412094        | 23.63%          | 2.375%        |
| 13        | 8.427       | 1062          | 1070        | 1076         | rVV3     | 20863          | 56197         | 3.22%           | 0.324%        |
| 14        | 8.506       | 1076          | 1083        | 1087         | rVV4     | 16805          | 42655         | 2.45%           | 0.246%        |
| 15        | 8.573       | 1087          | 1094        | 1103         | rVV2     | 42654          | 97182         | 5.57%           | 0.560%        |
| 16        | 8.689       | 1106          | 1113        | 1123         | rVB3     | 11586          | 26421         | 1.51%           | 0.152%        |
| 17        | 8.842       | 1128          | 1138        | 1149         | rBV      | 555266         | 1118074       | 64.10%          | 6.443%        |
| 18        | 9.067       | 1167          | 1175        | 1184         | rBV5     | 9866           | 27371         | 1.57%           | 0.158%        |
| 19        | 9.329       | 1205          | 1218        | 1224         | rBV2     | 104453         | 298033        | 17.09%          | 1.717%        |
| 20        | 9.390       | 1224          | 1228        | 1237         | rVB6     | 14097          | 30260         | 1.73%           | 0.174%        |
| 21        | 9.518       | 1242          | 1249        | 1254         | rVV2     | 14698          | 29452         | 1.69%           | 0.170%        |
| 22        | 9.610       | 1254          | 1264        | 1273         | rVB      | 49304          | 106211        | 6.09%           | 0.612%        |
| 23        | 9.750       | 1278          | 1287        | 1295         | rBV2     | 51800          | 100339        | 5.75%           | 0.578%        |
| 24        | 9.896       | 1306          | 1311        | 1315         | rBV      | 15641          | 26801         | 1.54%           | 0.154%        |
| 25        | 9.957       | 1315          | 1321        | 1333         | rVB3     | 63997          | 160150        | 9.18%           | 0.923%        |
| 26        | 10.091      | 1333          | 1343        | 1356         | rBV4     | 48171          | 130657        | 7.49%           | 0.753%        |
| 27        | 10.207      | 1356          | 1362        | 1365         | rBV5     | 14791          | 29952         | 1.72%           | 0.173%        |
| 28        | 10.244      | 1365          | 1368        | 1373         | rVB4     | 15568          | 26256         | 1.51%           | 0.151%        |
| 29        | 10.323      | 1373          | 1381        | 1396         | rBV      | 945287         | 1744179       | 100.00%         | 10.051%       |
| 30        | 10.445      | 1396          | 1401        | 1404         | rVV2     | 16046          | 28957         | 1.66%           | 0.167%        |
| 31        | 10.506      | 1404          | 1411        | 1418         | rVB4     | 66075          | 161589        | 9.26%           | 0.931%        |
| 32        | 10.616      | 1424          | 1429        | 1433         | rBV3     | 23786          | 43358         | 2.49%           | 0.250%        |
| 33        | 10.664      | 1433          | 1437        | 1444         | rVB      | 57968          | 97618         | 5.60%           | 0.563%        |
| 34        | 10.756      | 1445          | 1452        | 1458         | rBV4     | 39109          | 89161         | 5.11%           | 0.514%        |

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 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20190855-AMENDED-COMP-B

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\82W100819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 10.847 | 1463 | 1467 | 1472 | rVB3 | 20364  | 34029   | 1.95%  | 0.196% |
| 36 | 10.933 | 1472 | 1481 | 1487 | rBV  | 81885  | 146520  | 8.40%  | 0.844% |
| 37 | 11.030 | 1487 | 1497 | 1500 | rBV5 | 36205  | 87761   | 5.03%  | 0.506% |
| 38 | 11.103 | 1506 | 1509 | 1512 | rBV3 | 16369  | 20042   | 1.15%  | 0.115% |
| 39 | 11.177 | 1517 | 1521 | 1525 | rVB  | 53494  | 71209   | 4.08%  | 0.410% |
| 40 | 11.231 | 1525 | 1530 | 1535 | rVB  | 140330 | 243220  | 13.94% | 1.402% |
| 41 | 11.280 | 1535 | 1538 | 1542 | rBV3 | 21624  | 29037   | 1.66%  | 0.167% |
| 42 | 11.335 | 1542 | 1547 | 1552 | rVB2 | 57789  | 95533   | 5.48%  | 0.551% |
| 43 | 11.414 | 1552 | 1560 | 1562 | rBV3 | 47149  | 107456  | 6.16%  | 0.619% |
| 44 | 11.512 | 1571 | 1576 | 1581 | rBV  | 63931  | 104583  | 6.00%  | 0.603% |
| 45 | 11.628 | 1589 | 1595 | 1607 | rBV  | 709272 | 1233890 | 70.74% | 7.111% |
| 46 | 11.725 | 1607 | 1611 | 1614 | rBV2 | 13965  | 21384   | 1.23%  | 0.123% |
| 47 | 11.762 | 1614 | 1617 | 1620 | rBV3 | 29485  | 38144   | 2.19%  | 0.220% |
| 48 | 11.811 | 1620 | 1625 | 1630 | rBV5 | 27810  | 55583   | 3.19%  | 0.320% |
| 49 | 11.872 | 1631 | 1635 | 1639 | rBV  | 42901  | 69203   | 3.97%  | 0.399% |
| 50 | 11.975 | 1647 | 1652 | 1656 | rBV4 | 25768  | 49954   | 2.86%  | 0.288% |
| 51 | 12.134 | 1672 | 1678 | 1685 | rBV3 | 89340  | 204236  | 11.71% | 1.177% |
| 52 | 12.249 | 1690 | 1697 | 1702 | rVB  | 130764 | 227841  | 13.06% | 1.313% |
| 53 | 12.341 | 1702 | 1712 | 1713 | rBV3 | 114527 | 223708  | 12.83% | 1.289% |
| 54 | 12.451 | 1727 | 1730 | 1735 | rBV6 | 17261  | 35055   | 2.01%  | 0.202% |
| 55 | 12.506 | 1736 | 1739 | 1742 | rVV4 | 31783  | 58320   | 3.34%  | 0.336% |
| 56 | 12.536 | 1742 | 1744 | 1747 | rVV3 | 38427  | 53190   | 3.05%  | 0.307% |
| 57 | 12.615 | 1751 | 1757 | 1766 | rVB2 | 632719 | 1106799 | 63.46% | 6.378% |
| 58 | 12.701 | 1766 | 1771 | 1774 | rBV5 | 27797  | 48584   | 2.79%  | 0.280% |
| 59 | 12.780 | 1779 | 1784 | 1790 | rVB2 | 99135  | 184328  | 10.57% | 1.062% |
| 60 | 12.859 | 1790 | 1797 | 1801 | rBV6 | 45421  | 109553  | 6.28%  | 0.631% |
| 61 | 12.932 | 1802 | 1809 | 1823 | rVB7 | 111624 | 442449  | 25.37% | 2.550% |
| 62 | 13.079 | 1823 | 1833 | 1837 | rBV6 | 50825  | 120573  | 6.91%  | 0.695% |
| 63 | 13.127 | 1837 | 1841 | 1843 | rBV2 | 36966  | 55565   | 3.19%  | 0.320% |
| 64 | 13.164 | 1843 | 1847 | 1855 | rVB2 | 143579 | 224570  | 12.88% | 1.294% |
| 65 | 13.262 | 1860 | 1863 | 1865 | rVV3 | 19459  | 27547   | 1.58%  | 0.159% |
| 66 | 13.292 | 1865 | 1868 | 1872 | rVV2 | 44918  | 60757   | 3.48%  | 0.350% |
| 67 | 13.341 | 1873 | 1876 | 1880 | rVV2 | 45255  | 67966   | 3.90%  | 0.392% |
| 68 | 13.377 | 1880 | 1882 | 1885 | rVV4 | 29097  | 42044   | 2.41%  | 0.242% |
| 69 | 13.444 | 1889 | 1893 | 1897 | rVV5 | 81729  | 186703  | 10.70% | 1.076% |
| 70 | 13.481 | 1897 | 1899 | 1903 | rVV3 | 75641  | 106191  | 6.09%  | 0.612% |
| 71 | 13.518 | 1903 | 1905 | 1906 | rVV2 | 37251  | 37600   | 2.16%  | 0.217% |

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Instrument :  
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 ClientSampleId :  
 20190855-AMENDED-COMP-B

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\82W100819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 13.554 | 1906 | 1911 | 1919 | rVV  | 689335 | 1158103 | 66.40% | 6.674% |
| 73 | 13.621 | 1919 | 1922 | 1928 | rVB3 | 42275  | 69666   | 3.99%  | 0.401% |
| 74 | 13.694 | 1930 | 1934 | 1938 | rBV3 | 36645  | 56622   | 3.25%  | 0.326% |
| 75 | 13.877 | 1958 | 1964 | 1969 | rBV2 | 141942 | 257453  | 14.76% | 1.484% |
| 76 | 13.920 | 1969 | 1971 | 1977 | rVV5 | 38806  | 73635   | 4.22%  | 0.424% |
| 77 | 13.975 | 1978 | 1980 | 1983 | rVV4 | 38716  | 60408   | 3.46%  | 0.348% |
| 78 | 14.030 | 1984 | 1989 | 1992 | rVV5 | 54932  | 138199  | 7.92%  | 0.796% |
| 79 | 14.066 | 1993 | 1995 | 2002 | rVV8 | 61729  | 140599  | 8.06%  | 0.810% |
| 80 | 14.133 | 2002 | 2006 | 2011 | rVB3 | 70686  | 118370  | 6.79%  | 0.682% |
| 81 | 14.200 | 2012 | 2017 | 2022 | rBV7 | 36368  | 84099   | 4.82%  | 0.485% |
| 82 | 14.261 | 2023 | 2027 | 2033 | rVB7 | 42069  | 75259   | 4.31%  | 0.434% |
| 83 | 14.347 | 2034 | 2041 | 2042 | rBV5 | 44677  | 76903   | 4.41%  | 0.443% |
| 84 | 14.383 | 2044 | 2047 | 2051 | rVV4 | 109404 | 181129  | 10.38% | 1.044% |
| 85 | 14.426 | 2052 | 2054 | 2062 | rVB7 | 44530  | 82970   | 4.76%  | 0.478% |
| 86 | 14.493 | 2062 | 2065 | 2069 | rBV3 | 38688  | 54761   | 3.14%  | 0.316% |
| 87 | 14.548 | 2069 | 2074 | 2079 | rVB7 | 57606  | 91042   | 5.22%  | 0.525% |
| 88 | 14.725 | 2099 | 2103 | 2108 | rVB3 | 53468  | 89292   | 5.12%  | 0.515% |
| 89 | 14.792 | 2110 | 2114 | 2118 | rVV3 | 53029  | 100025  | 5.73%  | 0.576% |
| 90 | 14.841 | 2118 | 2122 | 2130 | rVB2 | 110048 | 205605  | 11.79% | 1.185% |
| 91 | 15.243 | 2185 | 2188 | 2197 | rVB7 | 51165  | 113637  | 6.52%  | 0.655% |
| 92 | 15.328 | 2197 | 2202 | 2209 | rVB2 | 69174  | 119774  | 6.87%  | 0.690% |
| 93 | 15.560 | 2237 | 2240 | 2248 | rVB7 | 29884  | 74907   | 4.29%  | 0.432% |
| 94 | 15.639 | 2248 | 2253 | 2254 | rBV5 | 15194  | 24521   | 1.41%  | 0.141% |
| 95 | 15.737 | 2264 | 2269 | 2275 | rVB6 | 36341  | 69669   | 3.99%  | 0.401% |
| 96 | 16.291 | 2356 | 2360 | 2368 | rVB4 | 25038  | 49430   | 2.83%  | 0.285% |
| 97 | 16.627 | 2411 | 2415 | 2427 | rVB4 | 18894  | 68187   | 3.91%  | 0.393% |

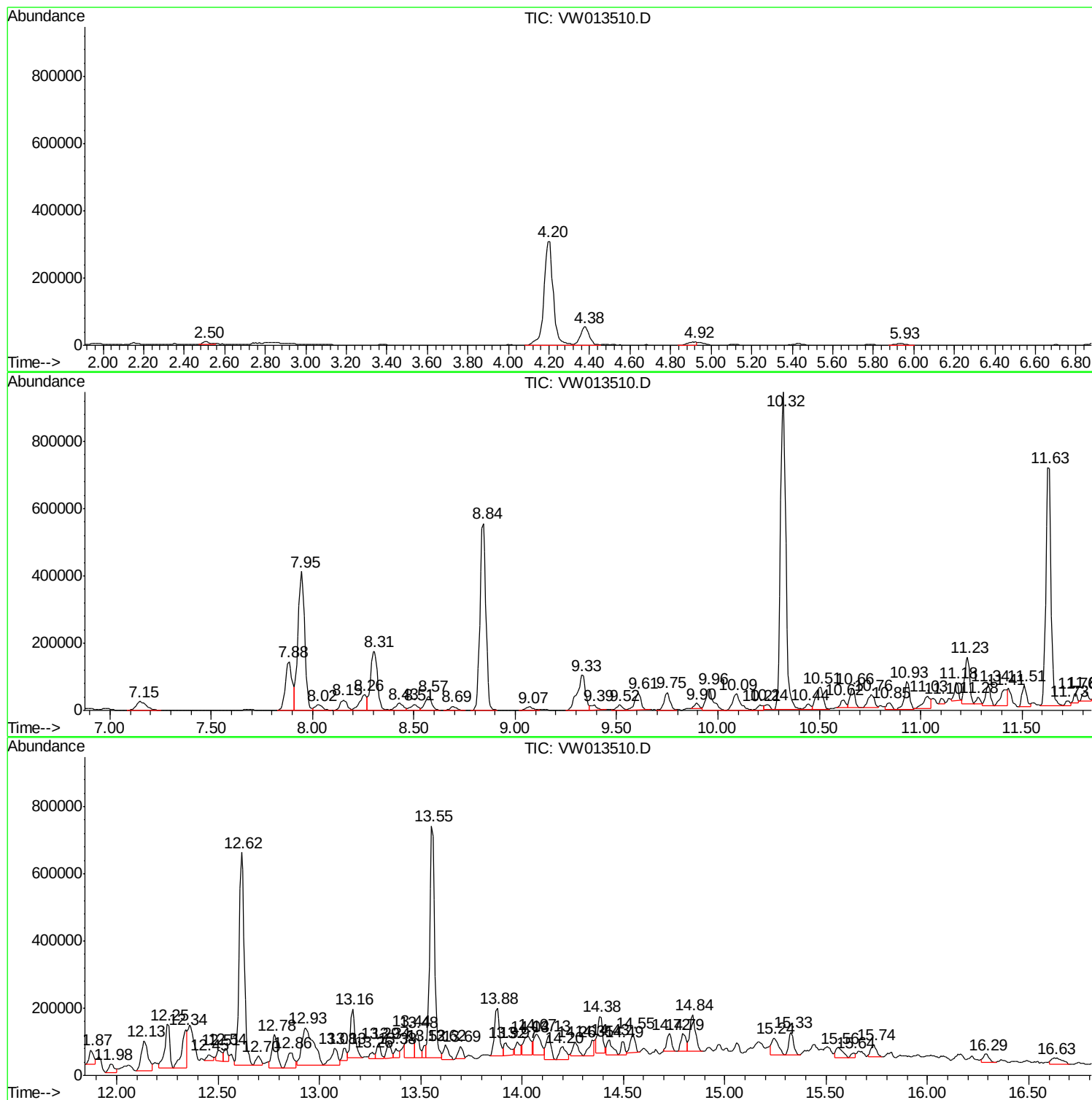
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
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Instrument :  
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20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

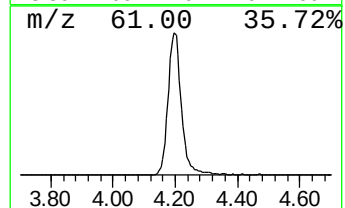
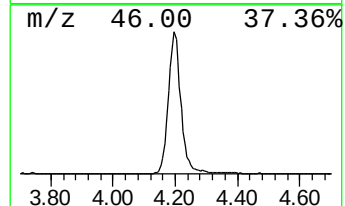
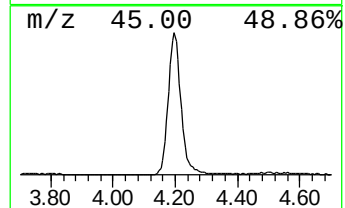
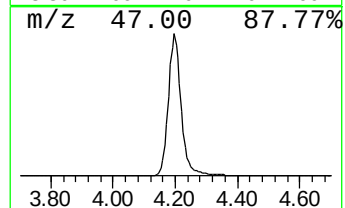
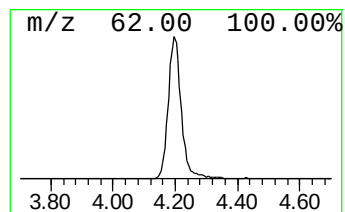
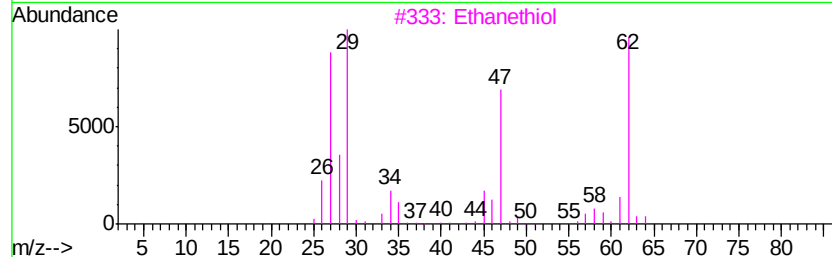
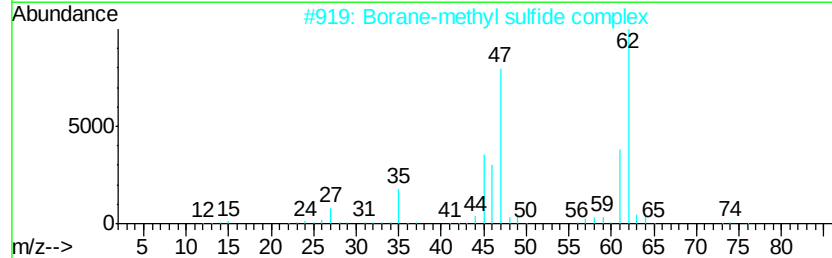
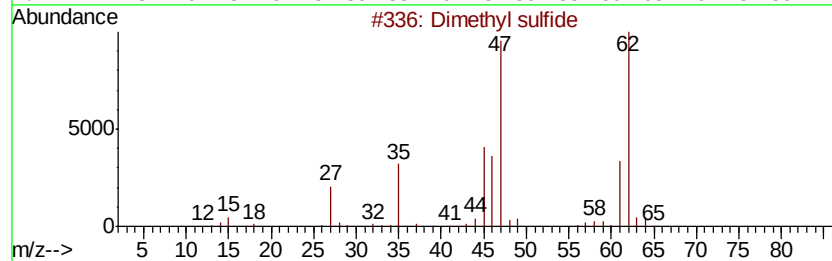
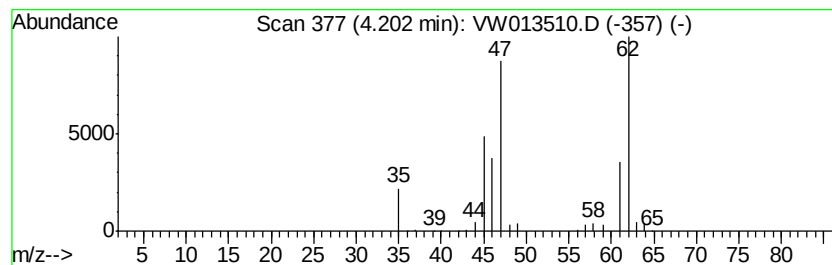
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Dimethyl sulfide Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD   | R.T. |
|------|------------|--------|--------------------|------|
| 4.20 | 51.48 ug/l | 967200 | Pentafluorobenzene | 7.95 |

| Hit# | of | Tentative ID                  | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------|----|---------|-------------|------|
| 1    | 5  | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 94   |
| 2    |    | Borane-methyl sulfide complex | 76 | C2H9BS  | 013292-87-0 | 90   |
| 3    |    | Ethanethiol                   | 62 | C2H6S   | 000075-08-1 | 78   |
| 4    |    | Ethene, chloro-               | 62 | C2H3Cl  | 000075-01-4 | 9    |
| 5    |    | Propane, 2-fluoro-            | 62 | C3H7F   | 000420-26-8 | 9    |



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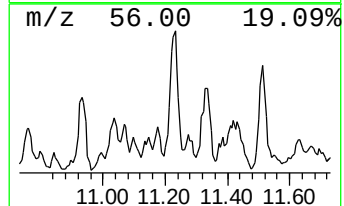
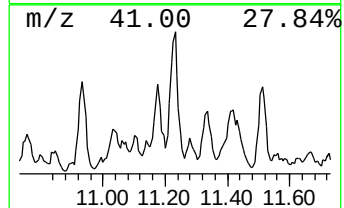
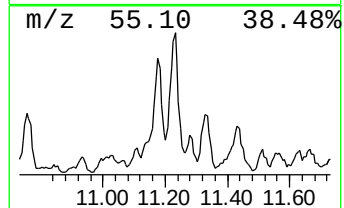
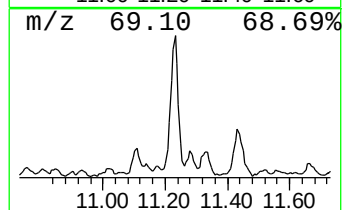
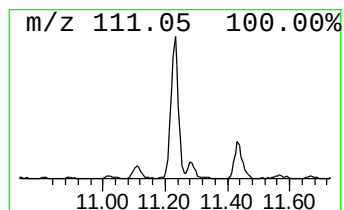
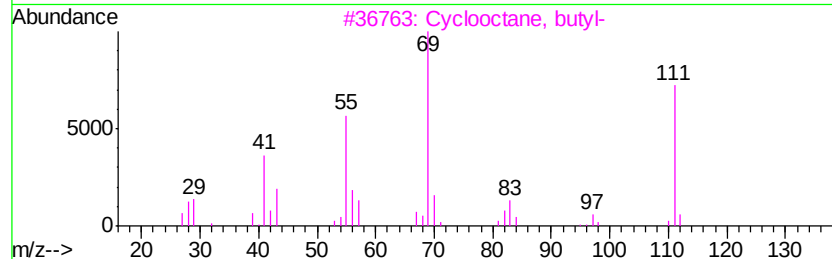
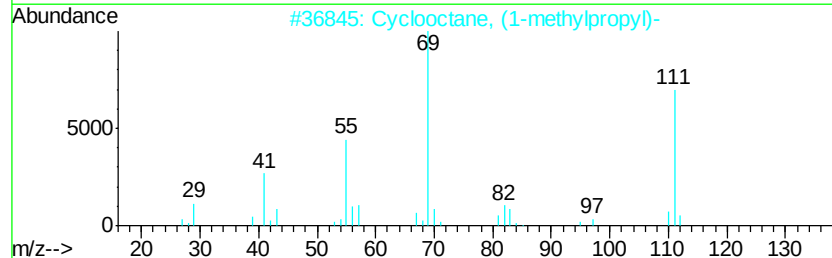
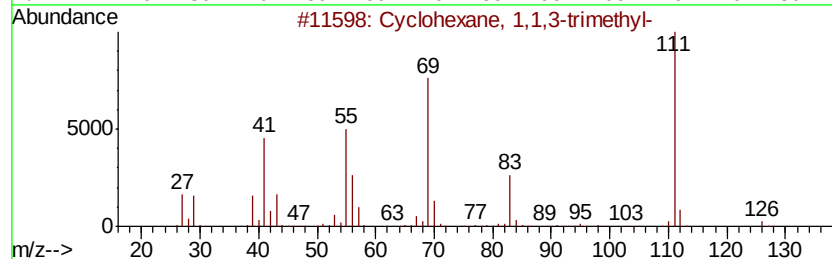
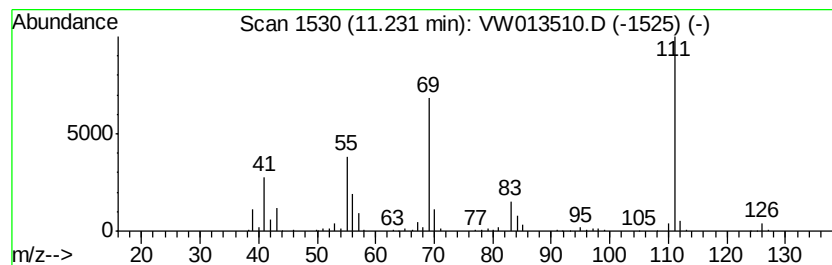
Instrument :  
MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 4

| R.T.    | EstConc   | Area                           | Relative to ISTD | R.T.    |             |      |
|---------|-----------|--------------------------------|------------------|---------|-------------|------|
| 11.23   | 9.86 ug/l | 243220                         | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                   | MW               | MolForm | CAS#        | Qual |
| 1       |           | Cyclohexane, 1,1,3-trimethyl-  | 126              | C9H18   | 003073-66-3 | 86   |
| 2       |           | Cyclooctane, (1-methylpropyl)- | 168              | C12H24  | 016538-89-9 | 59   |
| 3       |           | Cyclooctane, butyl-            | 168              | C12H24  | 016538-93-5 | 56   |
| 4       |           | Benzenamine, 2-fluoro-         | 111              | C6H6FN  | 000348-54-9 | 50   |
| 5       |           | p-Fluoroaniline                | 111              | C6H6FN  | 000371-40-4 | 50   |



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Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

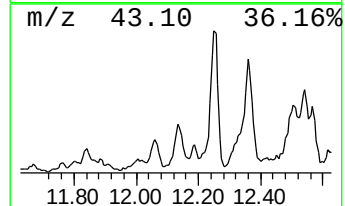
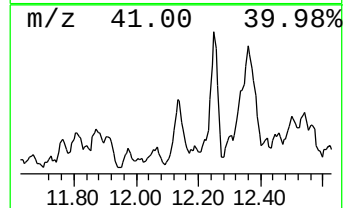
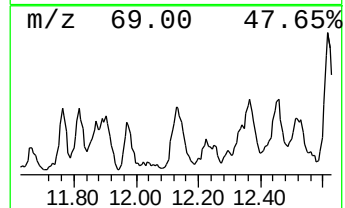
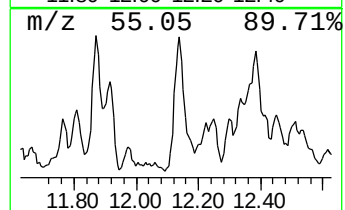
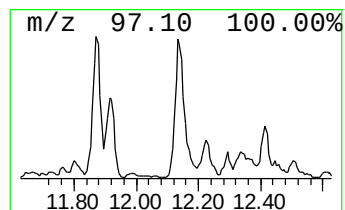
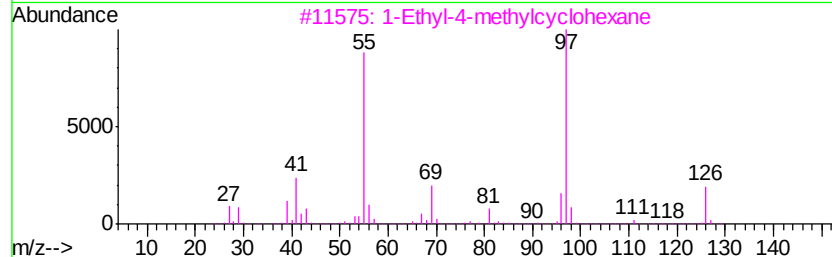
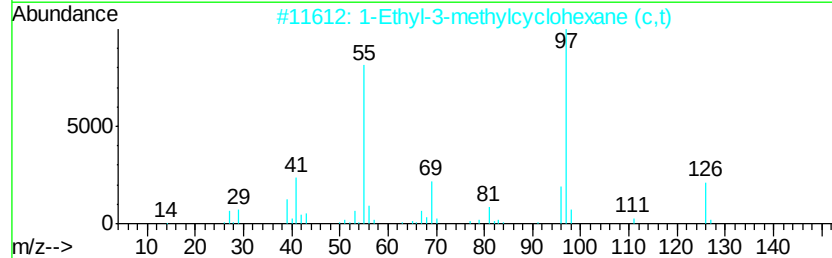
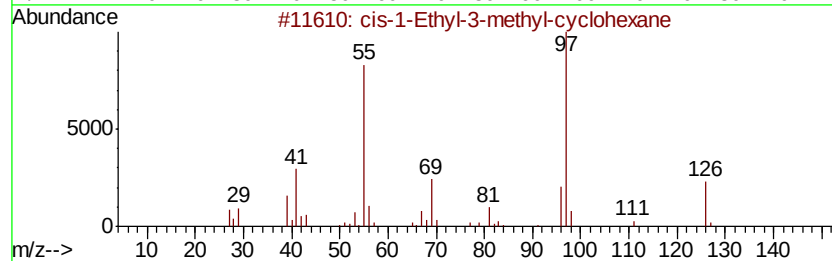
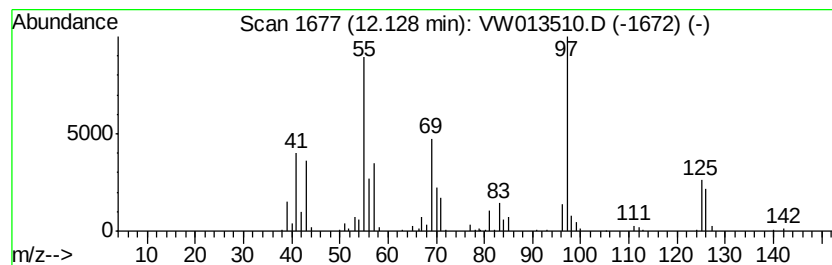
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 cis-1-Ethyl-3-methyl-cyclohexane Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.13 | 8.28 ug/l | 204236 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 62   |
| 2    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 62   |
| 3    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 62   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 58   |
| 5    |    | 3,5-Dimethyl-3-heptene              | 126 | C9H18   | 059643-68-4 | 58   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

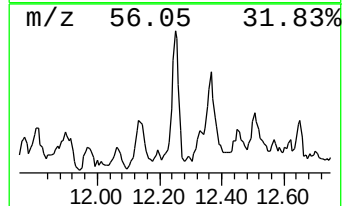
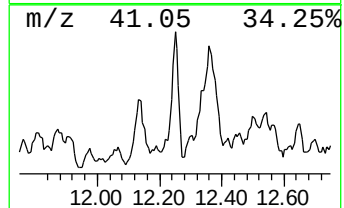
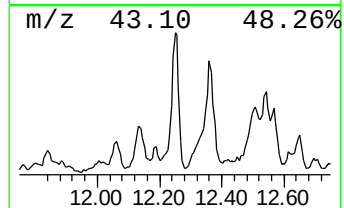
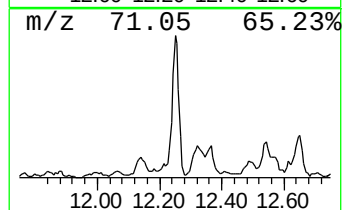
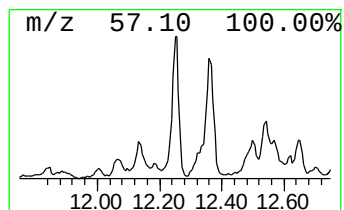
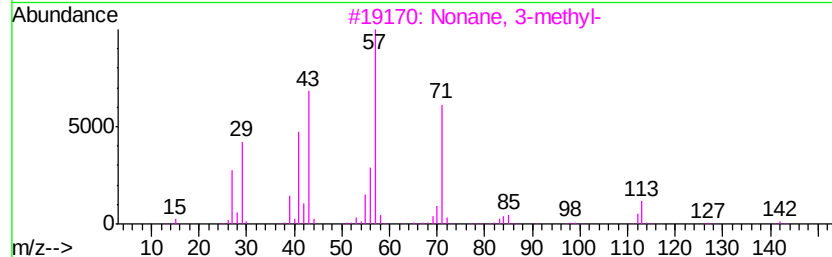
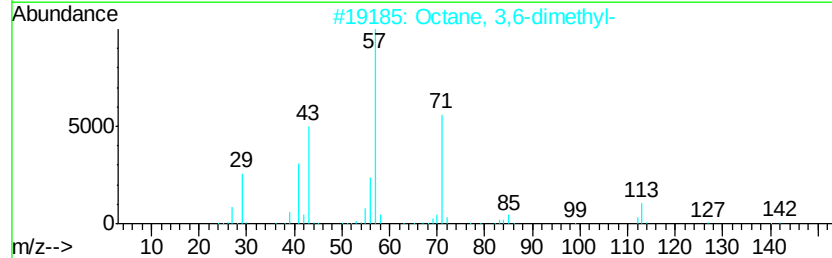
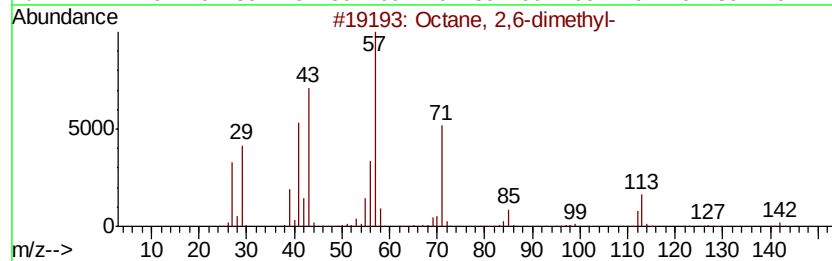
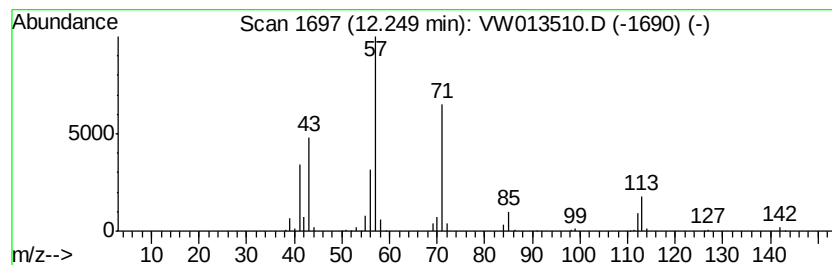
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.25 | 9.23 ug/l | 227841 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 91   |
| 2    |    | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 91   |
| 3    |    | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 83   |
| 4    |    | Sulfurous acid, 2-ethylhexyl oct... | 446 | C26H54O3S | 1000309-20-1 | 59   |
| 5    |    | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 47   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

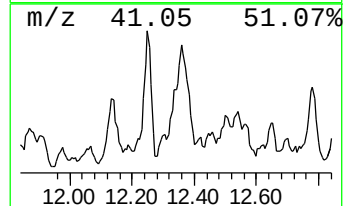
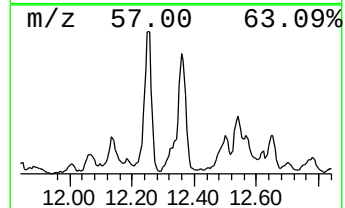
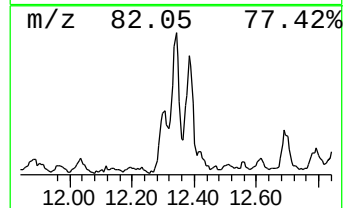
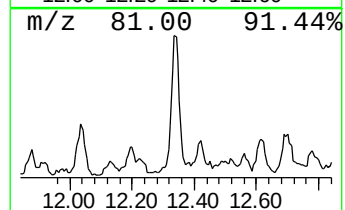
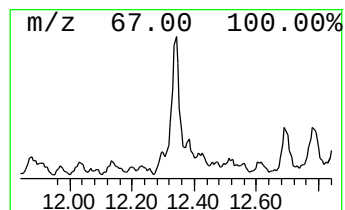
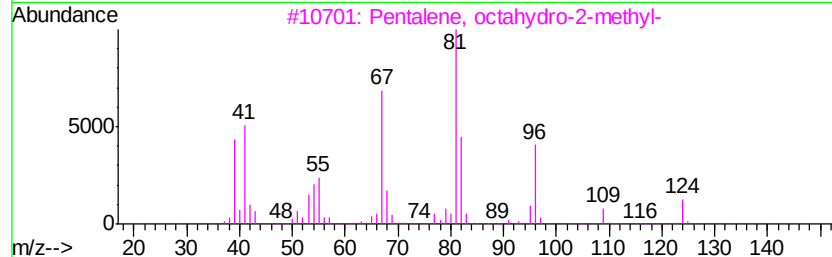
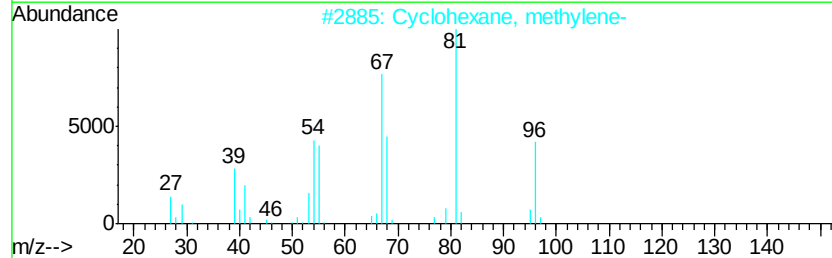
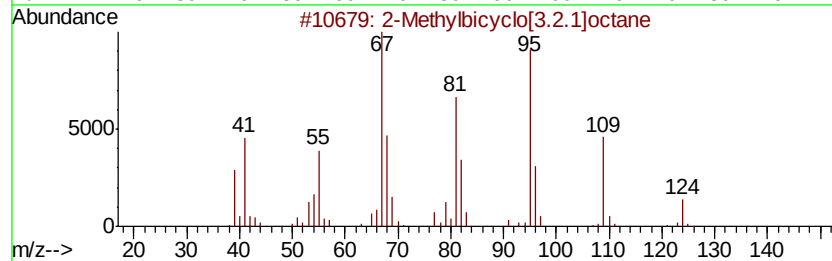
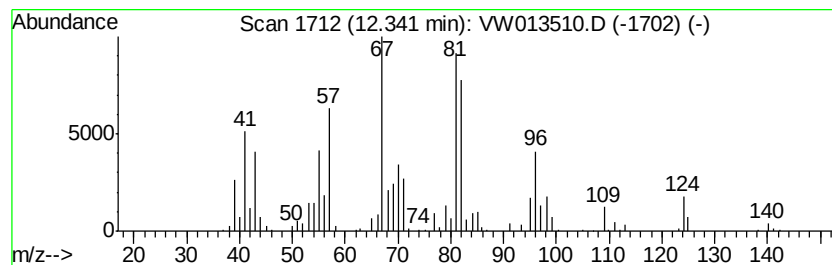
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 5 2-Methylbicyclo[3.2.1]octane Concentration Rank 7

| R.T.    | EstConc   | Area                               | Relative to ISTD | R.T.    |              |      |
|---------|-----------|------------------------------------|------------------|---------|--------------|------|
| 12.34   | 9.07 ug/l | 223708                             | Chlorobenzene-d5 | 11.63   |              |      |
| Hit# of | 5         | Tentative ID                       | MW               | MolForm | CAS#         | Qual |
| 1       |           | 2-Methylbicyclo[3.2.1]octane       | 124              | C9H16   | 1000215-28-0 | 58   |
| 2       |           | Cyclohexane, methylene-            | 96               | C7H12   | 001192-37-6  | 49   |
| 3       |           | Pentalene, octahydro-2-methyl-     | 124              | C9H16   | 003868-64-2  | 46   |
| 4       |           | 7-Methyl-8-oxabicyclo[4.3.0]nonane | 140              | C9H16O  | 1000216-87-6 | 45   |
| 5       |           | Cyclohexene, 4-propyl-             | 124              | C9H16   | 013487-64-4  | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

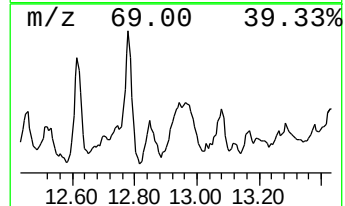
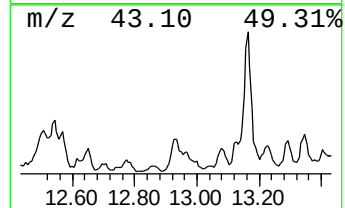
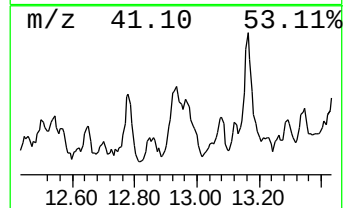
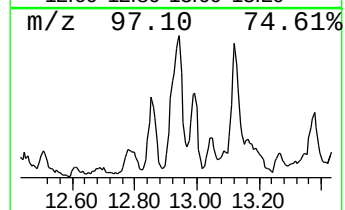
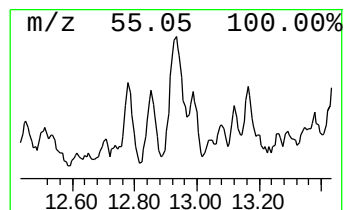
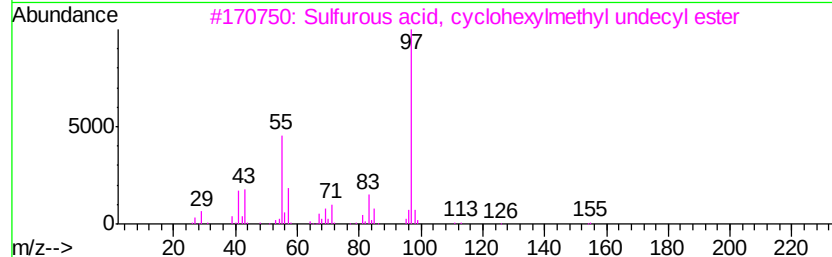
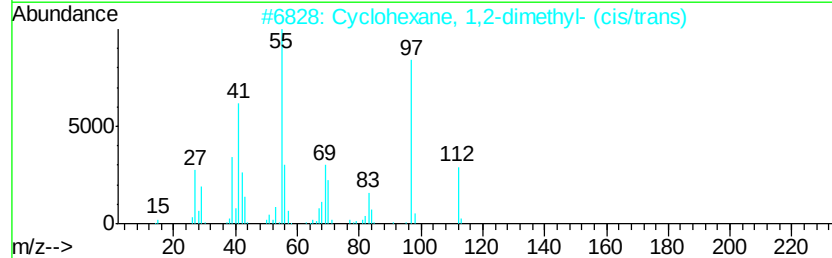
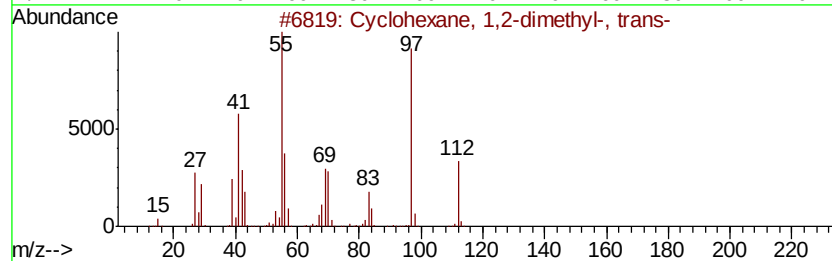
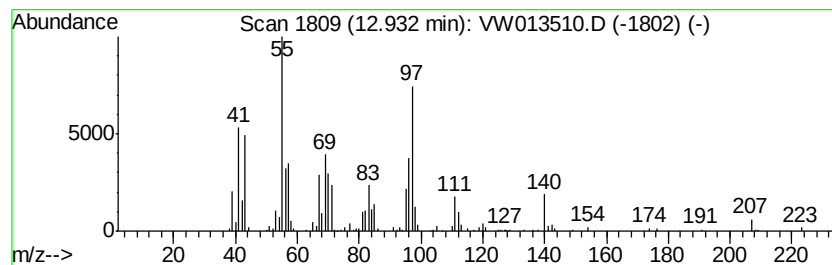
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.            |
|---------|------------|-------------------------------------|------------------------|-----------------|
| 12.93   | 19.10 ug/l | 442449                              | 1,4-Dichlorobenzene-d4 | 13.56           |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |            | Cyclohexane, 1,2-dimethyl-, trans-  | 112 C8H16              | 006876-23-9 60  |
| 2       |            | Cyclohexane, 1,2-dimethyl- (cis/... | 112 C8H16              | 000583-57-3 53  |
| 3       |            | Sulfurous acid, cyclohexylmethyl... | 332 C18H36O3S          | 1000309-21-9 49 |
| 4       |            | Cyclohexane, 1,3-dimethyl-, trans-  | 112 C8H16              | 002207-03-6 49  |
| 5       |            | Cyclohexane, 1,4-dimethyl-, cis-    | 112 C8H16              | 000624-29-3 49  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

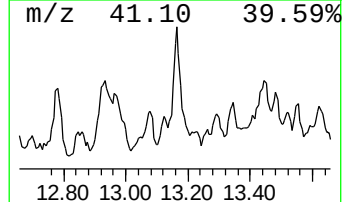
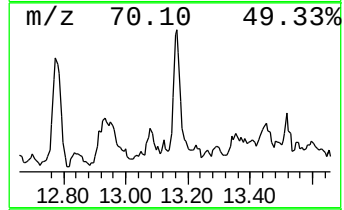
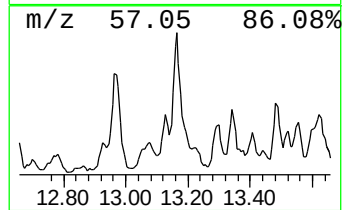
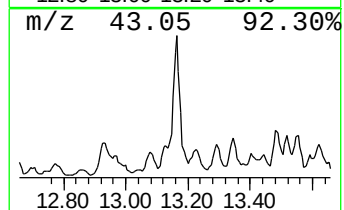
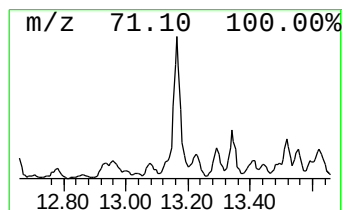
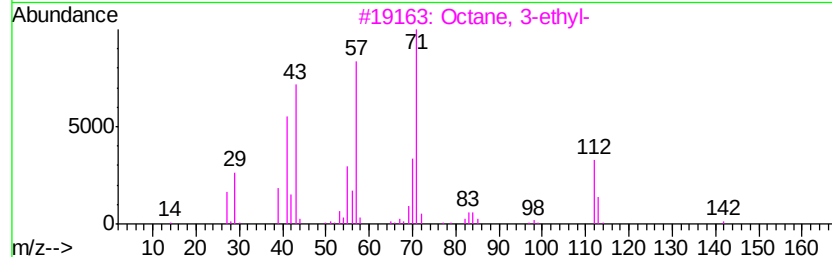
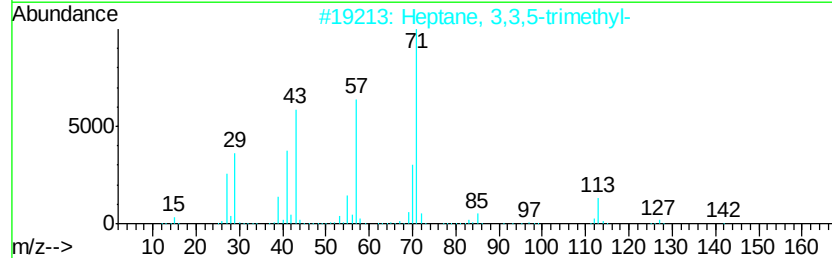
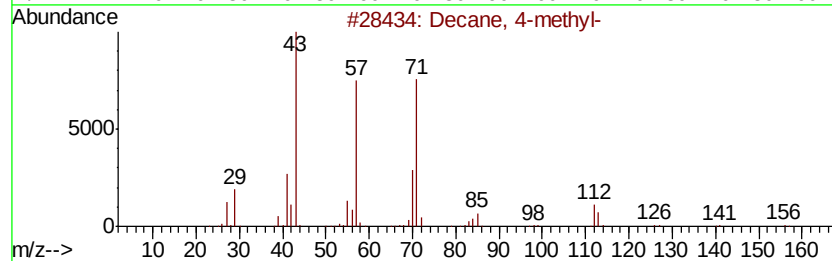
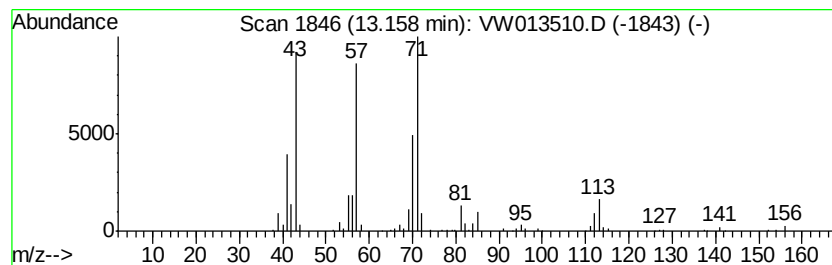
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Decane, 4-methyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.16 | 9.70 ug/l | 224570 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decane, 4-methyl-                 | 156 | C11H24    | 002847-72-5  | 78   |
| 2    |    | Heptane, 3,3,5-trimethyl-         | 142 | C10H22    | 007154-80-5  | 72   |
| 3    |    | Octane, 3-ethyl-                  | 142 | C10H22    | 005881-17-4  | 64   |
| 4    |    | Sulfurous acid, butyl octyl ester | 250 | C12H26O3S | 1000309-17-5 | 59   |
| 5    |    | 2,4,4-Trimethyl-1-hexene          | 126 | C9H18     | 051174-12-0  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

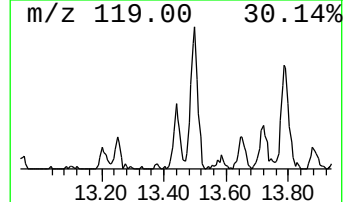
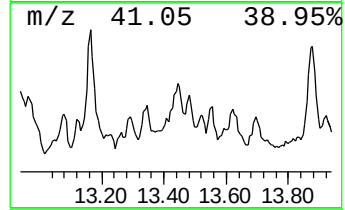
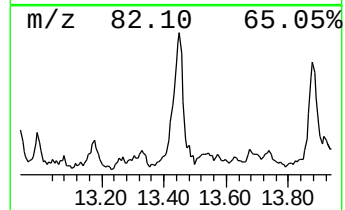
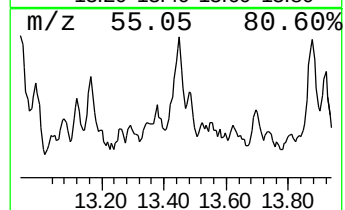
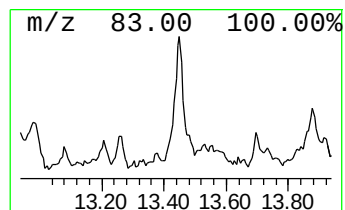
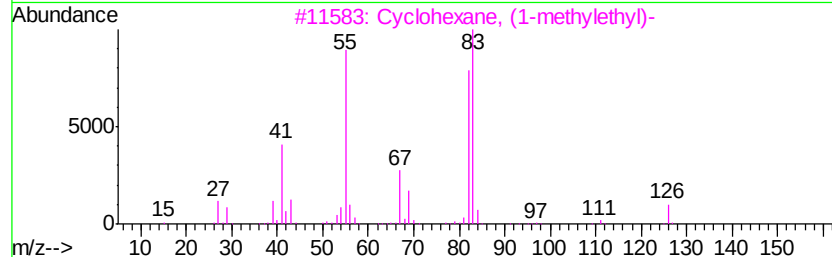
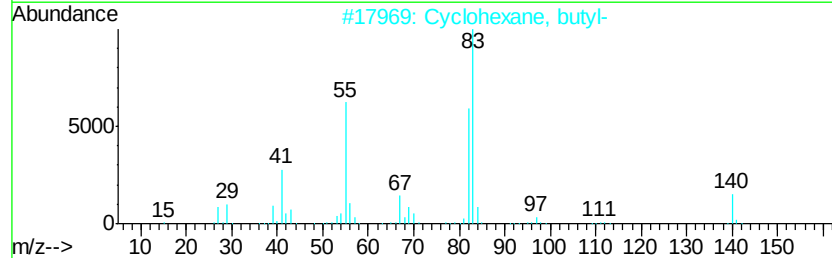
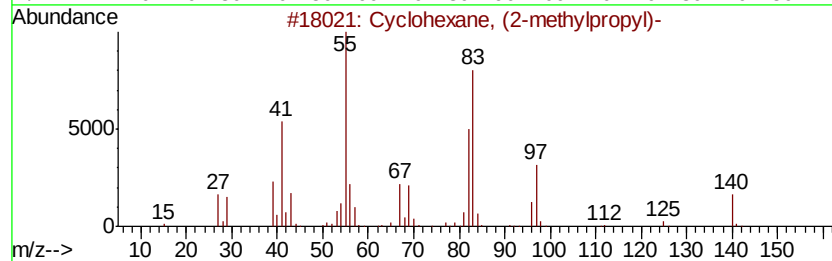
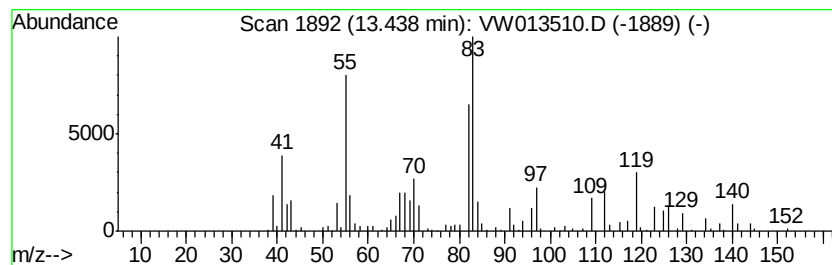
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Cyclohexane, (2-methylpropyl)- Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.44 | 8.06 ug/l | 186703 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 58   |
| 2    |    | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 58   |
| 3    |    | Cyclohexane, (1-methylethyl)-  | 126 | C9H18   | 000696-29-7 | 53   |
| 4    |    | Cyclohexane, propyl-           | 126 | C9H18   | 001678-92-8 | 52   |
| 5    |    | Cyclohexane, octyl-            | 196 | C14H28  | 001795-15-9 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

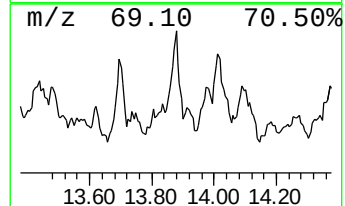
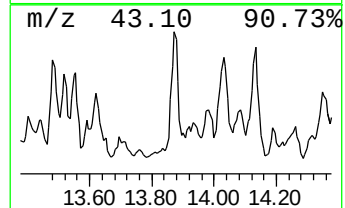
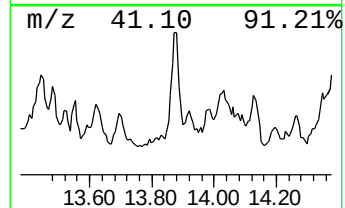
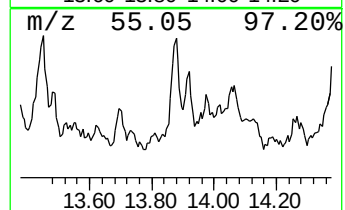
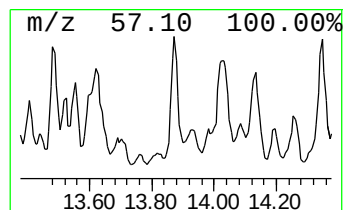
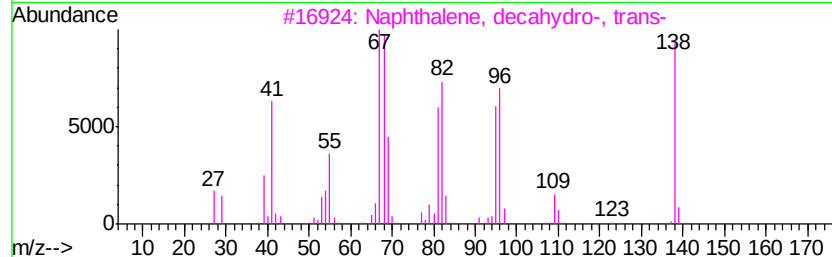
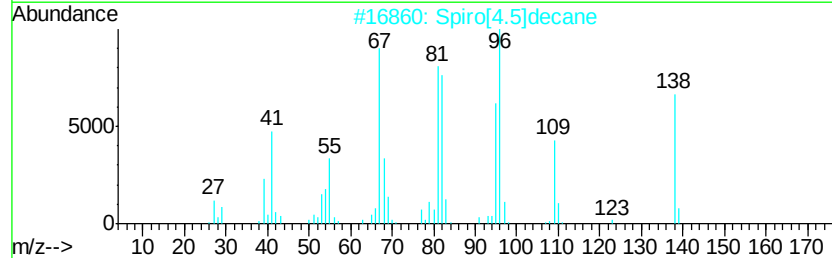
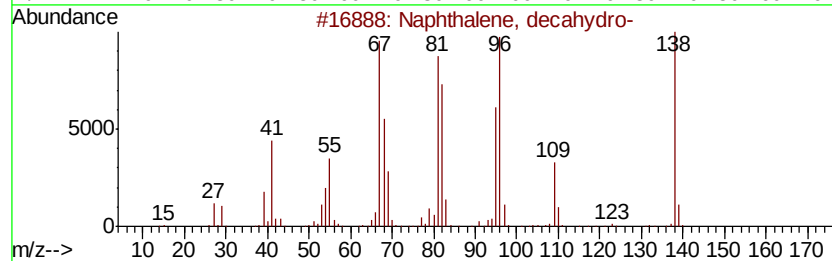
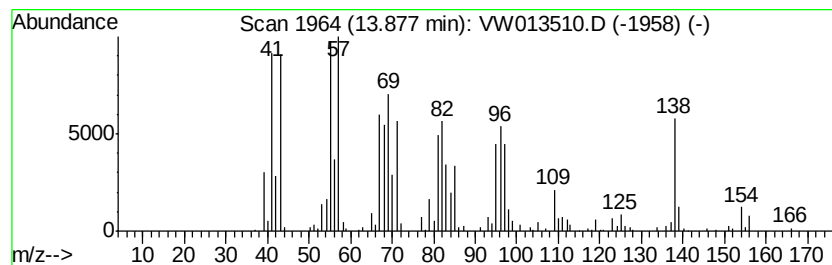
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Naphthalene, decahydro- Concentration Rank 3

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.88   | 11.12 ug/l | 257453                              | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, decahydro-             | 138 C10H18             | 000091-17-8 95 |
| 2       |            | Spiro[4.5]decane                    | 138 C10H18             | 000176-63-6 78 |
| 3       |            | Naphthalene, decahydro-, trans-     | 138 C10H18             | 000493-02-7 78 |
| 4       |            | 1,1'-Bicyclopentyl                  | 138 C10H18             | 001636-39-1 58 |
| 5       |            | 9-Borabicyclo[3.3.1]nonane, 9-hy... | 138 C8H15BO            | 063366-65-4 55 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

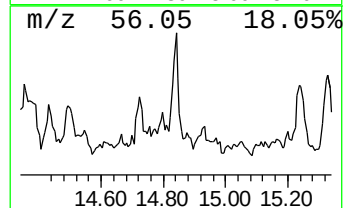
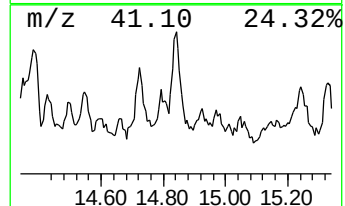
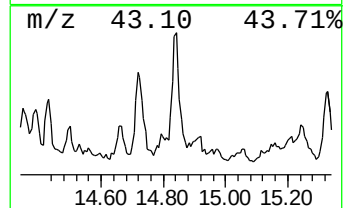
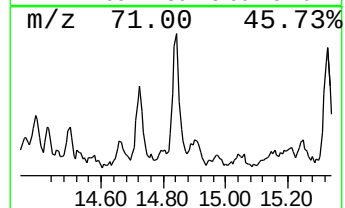
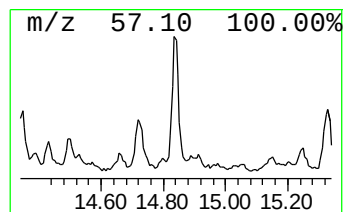
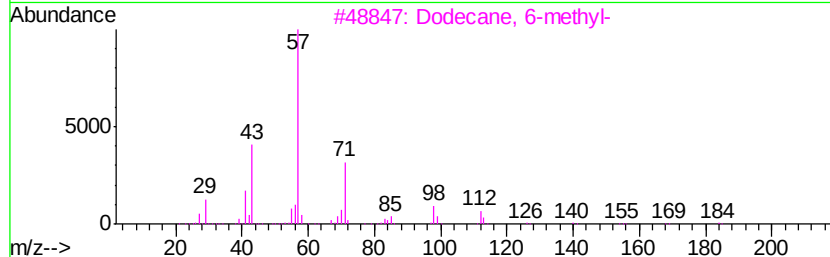
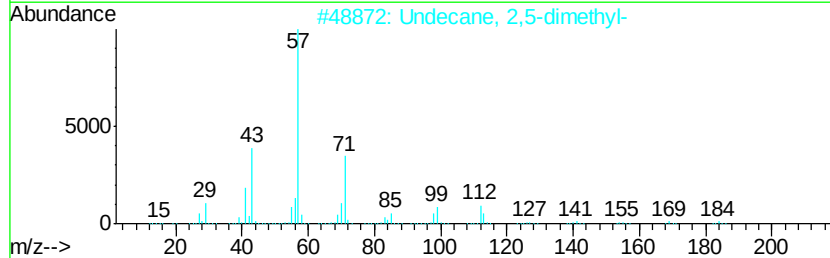
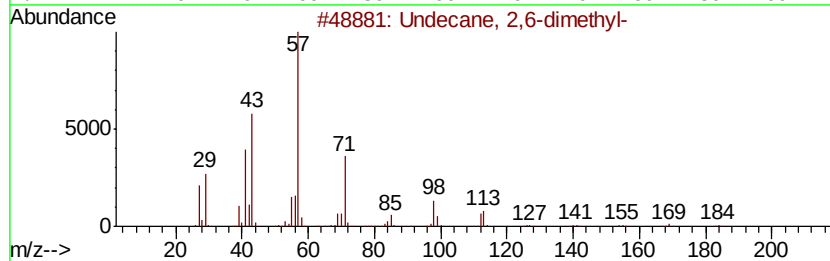
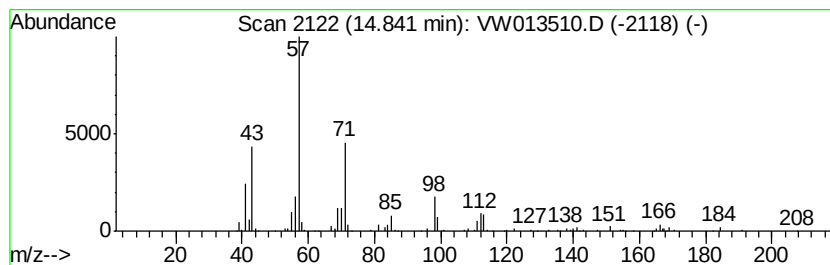
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Undecane, 2,6-dimethyl- Concentration Rank 8

| R.T.    | EstConc                  | Area         | Relative to ISTD       | R.T.    |             |      |
|---------|--------------------------|--------------|------------------------|---------|-------------|------|
| 14.84   | 8.88 ug/l                | 205605       | 1,4-Dichlorobenzene-d4 | 13.56   |             |      |
| Hit# of | 5                        | Tentative ID | MW                     | MolForm | CAS#        | Qual |
| 1       | Undecane, 2,6-dimethyl-  |              | 184                    | C13H28  | 017301-23-4 | 93   |
| 2       | Undecane, 2,5-dimethyl-  |              | 184                    | C13H28  | 017301-22-3 | 90   |
| 3       | Dodecane, 6-methyl-      |              | 184                    | C13H28  | 006044-71-9 | 72   |
| 4       | Decane, 5,6-dipropyl-    |              | 226                    | C16H34  | 119209-20-0 | 53   |
| 5       | Decane, 2,5,9-trimethyl- |              | 184                    | C13H28  | 062108-22-9 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100919\  
Data File : VW013510.D  
Acq On : 09 Oct 2019 17:53  
Operator : SY/VA  
Sample : K5292-03  
Misc : 5.09G/5ML/MSVOA\_W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190855-AMENDED-COMP-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Dimethyl sulfide     | 4.20  | 51.5    | ug/l  | 967200   | 1                     | 7.95  | 939419  | 50.0 |
| Cyclohexane, 1,1,... | 11.23 | 9.9     | ug/l  | 243220   | 3                     | 11.63 | 1233890 | 50.0 |
| cis-1-Ethyl-3-met... | 12.13 | 8.3     | ug/l  | 204236   | 3                     | 11.63 | 1233890 | 50.0 |
| Octane, 2,6-dimet... | 12.25 | 9.2     | ug/l  | 227841   | 3                     | 11.63 | 1233890 | 50.0 |
| 2-Methylbicyclo[3... | 12.34 | 9.1     | ug/l  | 223708   | 3                     | 11.63 | 1233890 | 50.0 |
| Cyclohexane, 1,2-... | 12.93 | 19.1    | ug/l  | 442449   | 4                     | 13.56 | 1158100 | 50.0 |
| Decane, 4-methyl-    | 13.16 | 9.7     | ug/l  | 224570   | 4                     | 13.56 | 1158100 | 50.0 |
| Cyclohexane, (2-m... | 13.44 | 8.1     | ug/l  | 186703   | 4                     | 13.56 | 1158100 | 50.0 |
| Naphthalene, deca... | 13.88 | 11.1    | ug/l  | 257453   | 4                     | 13.56 | 1158100 | 50.0 |
| Undecane, 2,6-dim... | 14.84 | 8.9     | ug/l  | 205605   | 4                     | 13.56 | 1158100 | 50.0 |