

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
 Data File : VW013439.D  
 Acq On : 04 Oct 2019 15:19  
 Operator : SY/VA  
 Sample : K5213-03  
 Misc : 5.10G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S-2(0-5)

## 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\82W100119S.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         | 7.153       | 850           | 861         | 877          | rBV3     | 72390          | 231851        | 4.27%           | 0.193%        |
| 2         | 7.878       | 970           | 980         | 985          | rBV      | 171430         | 412001        | 7.58%           | 0.344%        |
| 3         | 7.945       | 985           | 991         | 999          | rVB      | 378562         | 832532        | 15.32%          | 0.695%        |
| 4         | 8.250       | 1030          | 1041        | 1045         | rBV      | 78409          | 215157        | 3.96%           | 0.180%        |
| 5         | 8.305       | 1045          | 1050        | 1061         | rVB      | 162197         | 356983        | 6.57%           | 0.298%        |
| 6         | 8.573       | 1088          | 1094        | 1107         | rVB2     | 27574          | 64404         | 1.18%           | 0.054%        |
| 7         | 8.841       | 1125          | 1138        | 1150         | rBV      | 516327         | 1013255       | 18.64%          | 0.846%        |
| 8         | 9.299       | 1205          | 1213        | 1214         | rBV      | 46746          | 75092         | 1.38%           | 0.063%        |
| 9         | 9.329       | 1214          | 1218        | 1224         | rVB2     | 60955          | 133362        | 2.45%           | 0.111%        |
| 10        | 9.604       | 1254          | 1263        | 1272         | rBV      | 36232          | 77534         | 1.43%           | 0.065%        |
| 11        | 9.750       | 1279          | 1287        | 1297         | rVB2     | 61943          | 125328        | 2.31%           | 0.105%        |
| 12        | 9.890       | 1297          | 1310        | 1315         | rBV3     | 33477          | 82171         | 1.51%           | 0.069%        |
| 13        | 10.079      | 1334          | 1341        | 1347         | rBV3     | 45280          | 112280        | 2.07%           | 0.094%        |
| 14        | 10.323      | 1373          | 1381        | 1395         | rVV      | 877436         | 1680856       | 30.92%          | 1.403%        |
| 15        | 10.494      | 1403          | 1409        | 1418         | rVB5     | 71511          | 192860        | 3.55%           | 0.161%        |
| 16        | 10.616      | 1418          | 1429        | 1432         | rBV4     | 49815          | 98746         | 1.82%           | 0.082%        |
| 17        | 10.664      | 1432          | 1437        | 1441         | rBV      | 110858         | 171214        | 3.15%           | 0.143%        |
| 18        | 10.756      | 1447          | 1452        | 1458         | rBV4     | 84404          | 161667        | 2.97%           | 0.135%        |
| 19        | 10.859      | 1463          | 1469        | 1474         | rBV2     | 212441         | 378176        | 6.96%           | 0.316%        |
| 20        | 10.933      | 1474          | 1481        | 1487         | rVB3     | 75900          | 153347        | 2.82%           | 0.128%        |
| 21        | 11.036      | 1487          | 1498        | 1500         | rBV4     | 84425          | 205444        | 3.78%           | 0.171%        |
| 22        | 11.109      | 1506          | 1510        | 1512         | rBV      | 65987          | 94624         | 1.74%           | 0.079%        |
| 23        | 11.146      | 1512          | 1516        | 1517         | rVV3     | 74778          | 109375        | 2.01%           | 0.091%        |
| 24        | 11.176      | 1517          | 1521        | 1524         | rVV      | 149911         | 252164        | 4.64%           | 0.210%        |
| 25        | 11.231      | 1524          | 1530        | 1535         | rVV      | 455329         | 842142        | 15.49%          | 0.703%        |
| 26        | 11.286      | 1535          | 1539        | 1542         | rVV2     | 85617          | 133206        | 2.45%           | 0.111%        |
| 27        | 11.335      | 1542          | 1547        | 1551         | rVV2     | 193748         | 332100        | 6.11%           | 0.277%        |
| 28        | 11.378      | 1551          | 1554        | 1559         | rVV3     | 76965          | 159837        | 2.94%           | 0.133%        |
| 29        | 11.432      | 1559          | 1563        | 1571         | rVB2     | 285850         | 543229        | 9.99%           | 0.453%        |
| 30        | 11.506      | 1571          | 1575        | 1580         | rBV2     | 111166         | 192740        | 3.55%           | 0.161%        |
| 31        | 11.628      | 1589          | 1595        | 1605         | rBV      | 600731         | 1075618       | 19.79%          | 0.898%        |
| 32        | 11.762      | 1613          | 1617        | 1621         | rBV      | 147829         | 221343        | 4.07%           | 0.185%        |
| 33        | 11.817      | 1621          | 1626        | 1630         | rVB3     | 160675         | 290620        | 5.35%           | 0.243%        |
| 34        | 11.871      | 1630          | 1635        | 1639         | rBV      | 315453         | 610282        | 11.23%          | 0.509%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
 Data File : VW013439.D  
 Acq On : 04 Oct 2019 15:19  
 Operator : SY/VA  
 Sample : K5213-03  
 Misc : 5.10G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S-2(0-5)

## 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\82W100119S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 11.975 | 1647 | 1652 | 1658 | rBV3 | 120216  | 291911  | 5.37%   | 0.244% |
| 36 | 12.060 | 1658 | 1666 | 1671 | rVB4 | 123285  | 315957  | 5.81%   | 0.264% |
| 37 | 12.140 | 1671 | 1679 | 1686 | rBV3 | 624932  | 1563463 | 28.77%  | 1.305% |
| 38 | 12.249 | 1690 | 1697 | 1702 | rVB  | 575856  | 1065177 | 19.60%  | 0.889% |
| 39 | 12.359 | 1702 | 1715 | 1722 | rBV4 | 933054  | 3285469 | 60.45%  | 2.742% |
| 40 | 12.451 | 1727 | 1730 | 1733 | rBV4 | 94950   | 129625  | 2.38%   | 0.108% |
| 41 | 12.615 | 1752 | 1757 | 1762 | rBV3 | 700189  | 1171206 | 21.55%  | 0.977% |
| 42 | 12.701 | 1762 | 1771 | 1775 | rBV7 | 409975  | 1003939 | 18.47%  | 0.838% |
| 43 | 12.780 | 1779 | 1784 | 1790 | rVB2 | 969815  | 1777034 | 32.69%  | 1.483% |
| 44 | 12.859 | 1790 | 1797 | 1802 | rBV6 | 547528  | 1467795 | 27.00%  | 1.225% |
| 45 | 12.944 | 1802 | 1811 | 1816 | rBV6 | 908648  | 2789928 | 51.33%  | 2.328% |
| 46 | 13.042 | 1824 | 1827 | 1828 | rBV2 | 108781  | 127727  | 2.35%   | 0.107% |
| 47 | 13.079 | 1828 | 1833 | 1837 | rVV3 | 723541  | 1077219 | 19.82%  | 0.899% |
| 48 | 13.127 | 1837 | 1841 | 1843 | rBV3 | 434519  | 666074  | 12.25%  | 0.556% |
| 49 | 13.164 | 1843 | 1847 | 1854 | rVV3 | 1116605 | 2070317 | 38.09%  | 1.728% |
| 50 | 13.261 | 1860 | 1863 | 1865 | rBV2 | 406748  | 539657  | 9.93%   | 0.450% |
| 51 | 13.292 | 1865 | 1868 | 1872 | rVV  | 615240  | 989283  | 18.20%  | 0.826% |
| 52 | 13.341 | 1873 | 1876 | 1880 | rVV2 | 602255  | 970525  | 17.86%  | 0.810% |
| 53 | 13.377 | 1880 | 1882 | 1885 | rVV2 | 355484  | 403728  | 7.43%   | 0.337% |
| 54 | 13.444 | 1886 | 1893 | 1897 | rVV4 | 1186233 | 2809208 | 51.68%  | 2.344% |
| 55 | 13.481 | 1897 | 1899 | 1905 | rVB4 | 511109  | 780941  | 14.37%  | 0.652% |
| 56 | 13.627 | 1920 | 1923 | 1928 | rBV6 | 297022  | 690138  | 12.70%  | 0.576% |
| 57 | 13.700 | 1929 | 1935 | 1945 | rBV7 | 1058442 | 2857499 | 52.57%  | 2.385% |
| 58 | 13.828 | 1949 | 1956 | 1957 | rBV5 | 519319  | 1096013 | 20.16%  | 0.915% |
| 59 | 13.877 | 1958 | 1964 | 1969 | rBV3 | 2898866 | 5417009 | 99.66%  | 4.521% |
| 60 | 13.926 | 1969 | 1972 | 1976 | rVB3 | 718380  | 1051527 | 19.35%  | 0.878% |
| 61 | 13.981 | 1977 | 1981 | 1984 | rBV3 | 1076594 | 1970307 | 36.25%  | 1.644% |
| 62 | 14.091 | 1996 | 1999 | 2003 | rVB2 | 1169772 | 1629793 | 29.99%  | 1.360% |
| 63 | 14.194 | 2012 | 2016 | 2022 | rBV4 | 1022433 | 2072704 | 38.13%  | 1.730% |
| 64 | 14.261 | 2024 | 2027 | 2033 | rVB4 | 1171669 | 2053972 | 37.79%  | 1.714% |
| 65 | 14.322 | 2033 | 2037 | 2041 | rBV4 | 620696  | 1060695 | 19.52%  | 0.885% |
| 66 | 14.383 | 2042 | 2047 | 2051 | rBV2 | 2854878 | 4728296 | 86.99%  | 3.946% |
| 67 | 14.499 | 2062 | 2066 | 2069 | rBV2 | 898326  | 1415180 | 26.04%  | 1.181% |
| 68 | 14.548 | 2069 | 2074 | 2080 | rVV5 | 2823400 | 5137809 | 94.53%  | 4.288% |
| 69 | 14.737 | 2101 | 2105 | 2109 | rVB2 | 1056371 | 1426941 | 26.25%  | 1.191% |
| 70 | 14.798 | 2110 | 2115 | 2119 | rVV3 | 2597561 | 5435276 | 100.00% | 4.536% |
| 71 | 14.847 | 2120 | 2123 | 2131 | rVB4 | 2489227 | 5350701 | 98.44%  | 4.465% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

## Integration Parameters: RTEINT.P

Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 14.975 | 2140 | 2144 | 2147 | rBV5 | 817212  | 1285876 | 23.66% | 1.073% |
| 73 | 15.060 | 2154 | 2158 | 2163 | rVB3 | 1867022 | 3149496 | 57.95% | 2.628% |
| 74 | 15.176 | 2172 | 2177 | 2183 | rBV4 | 1708570 | 3539492 | 65.12% | 2.954% |
| 75 | 15.328 | 2198 | 2202 | 2210 | rVB2 | 2690206 | 4675346 | 86.02% | 3.902% |
| 76 | 15.420 | 2211 | 2217 | 2222 | rBV2 | 2065947 | 4919217 | 90.51% | 4.105% |
| 77 | 15.657 | 2249 | 2256 | 2262 | rBV4 | 1648418 | 4249934 | 78.19% | 3.547% |
| 78 | 15.730 | 2265 | 2268 | 2274 | rVB5 | 1206623 | 2186634 | 40.23% | 1.825% |
| 79 | 15.865 | 2287 | 2290 | 2300 | rVB2 | 1885846 | 3260673 | 59.99% | 2.721% |
| 80 | 16.176 | 2335 | 2341 | 2352 | rVB4 | 1287428 | 3306017 | 60.83% | 2.759% |
| 81 | 16.285 | 2356 | 2359 | 2365 | rVB2 | 798971  | 1317061 | 24.23% | 1.099% |
| 82 | 16.377 | 2368 | 2374 | 2380 | rVB3 | 2038593 | 4285105 | 78.84% | 3.576% |
| 83 | 16.639 | 2411 | 2417 | 2425 | rBV5 | 1150076 | 3332387 | 61.31% | 2.781% |

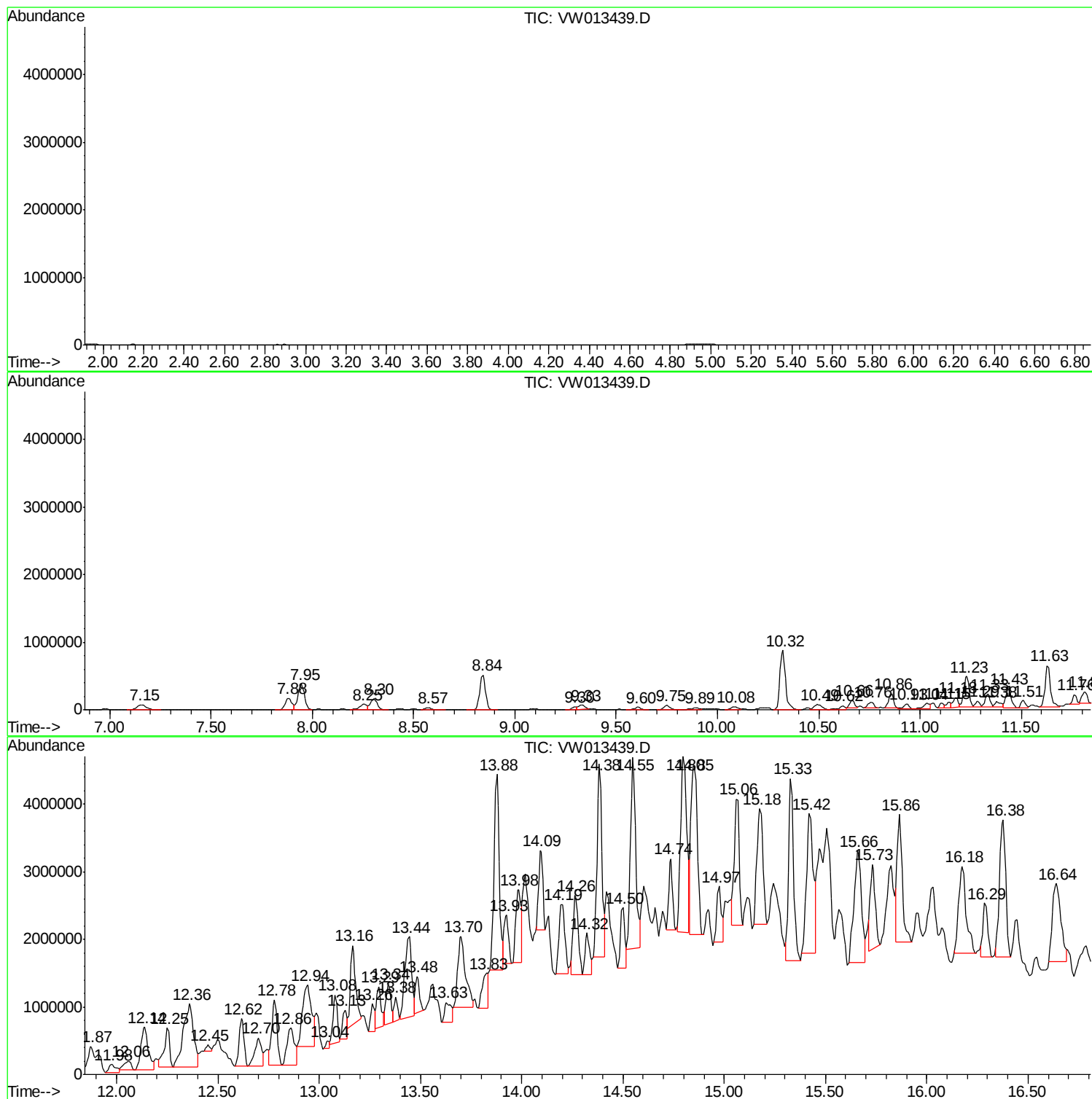
Sum of corrected areas: 119828821

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

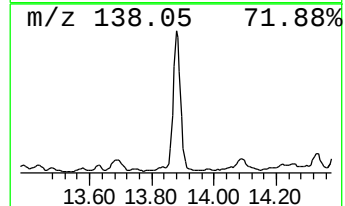
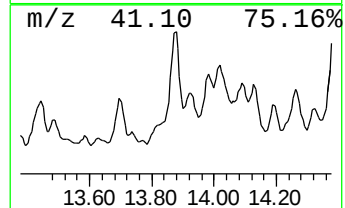
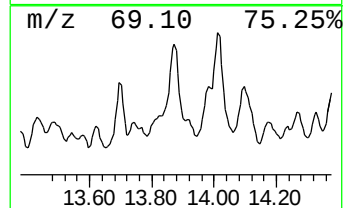
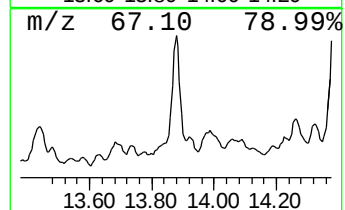
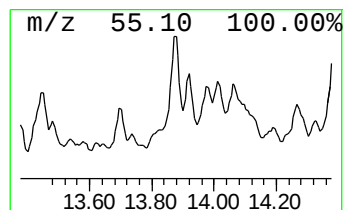
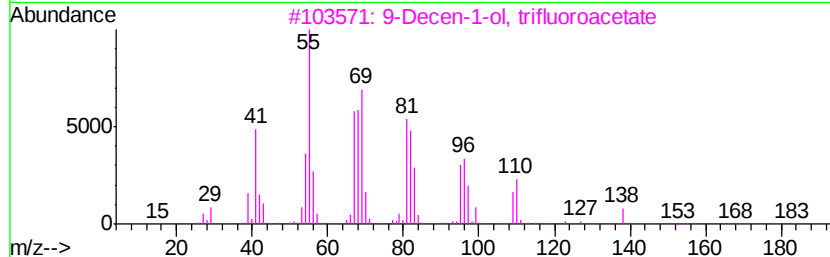
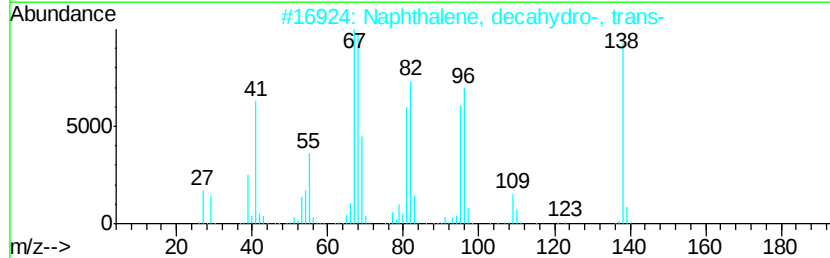
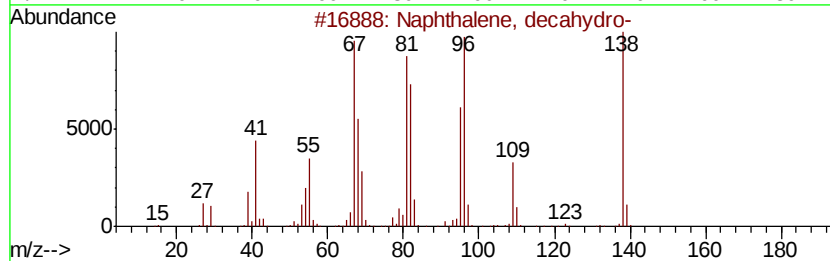
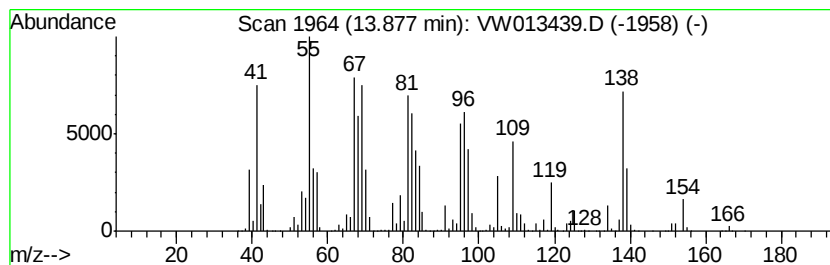
Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Naphthalene, decahydro- Concentration Rank 2

| R.T.    | EstConc     | Area                            | Relative to ISTD       | R.T.            |
|---------|-------------|---------------------------------|------------------------|-----------------|
| 13.88   | 392.46 ug/l | 5417010                         | 1,4-Dichlorobenzene-d4 | 13.56           |
| Hit# of | 5           | Tentative ID                    | MW MolForm             | CAS# Qual       |
| 1       |             | Naphthalene, decahydro-         | 138 C10H18             | 000091-17-8 90  |
| 2       |             | Naphthalene, decahydro-, trans- | 138 C10H18             | 000493-02-7 89  |
| 3       |             | 9-Decen-1-ol, trifluoroacetate  | 252 C12H19F3O2         | 1000352-65-9 72 |
| 4       |             | Spiro[4.5]decane                | 138 C10H18             | 000176-63-6 55  |
| 5       |             | Naphthalene, decahydro-, cis-   | 138 C10H18             | 000493-01-6 50  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

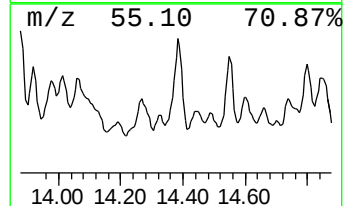
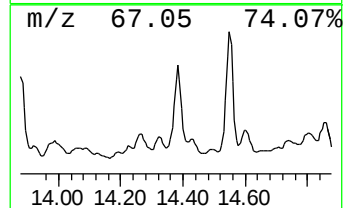
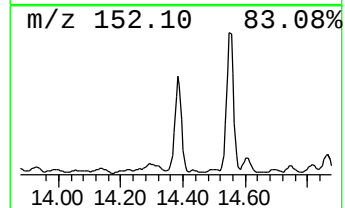
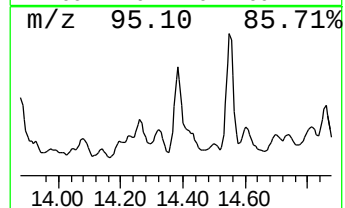
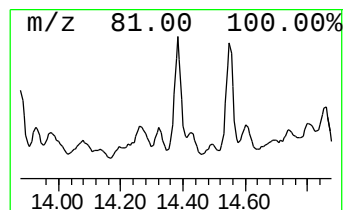
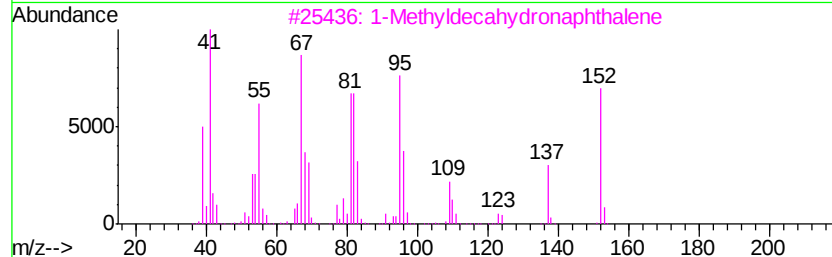
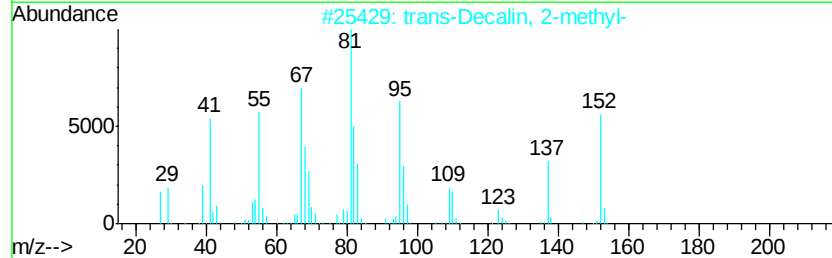
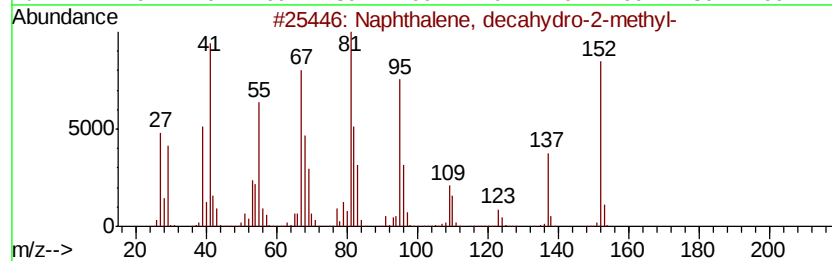
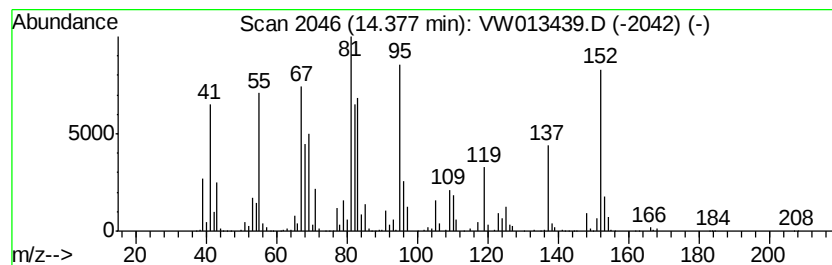
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Naphthalene, decahydro-2-me... Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.38 | 342.56 ug/l | 4728300 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 90   |
| 2    |    | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 89   |
| 3    |    | 1-Methyldecahydronaphthalene        | 152 | C11H20  | 002958-75-0  | 53   |
| 4    |    | Bicyclo[4.1.0]heptan-3-one, 4,7,... | 152 | C10H16O | 004176-04-9  | 49   |
| 5    |    | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6  | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

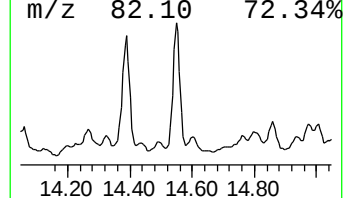
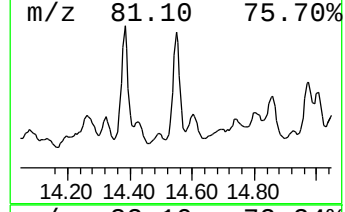
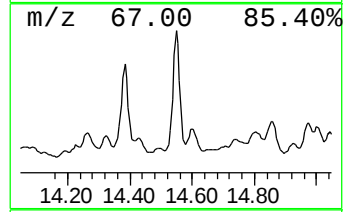
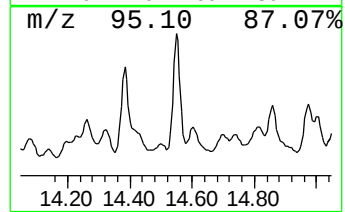
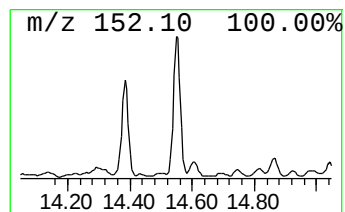
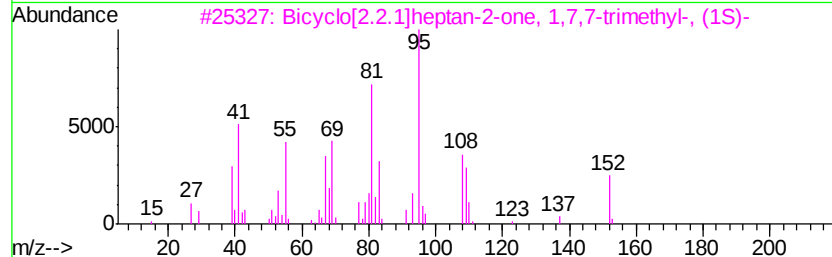
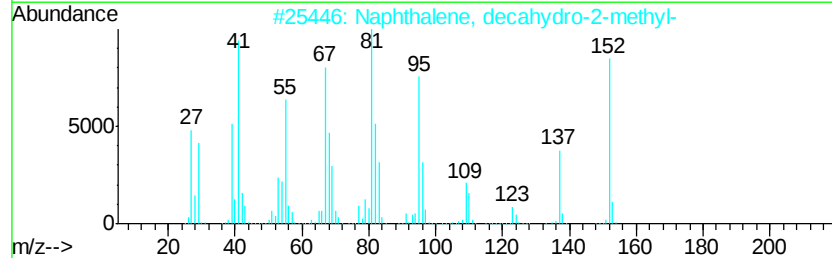
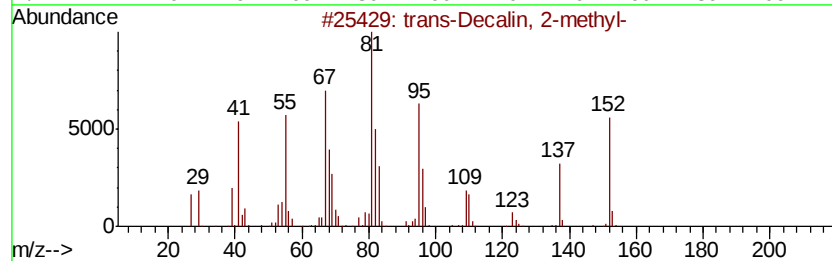
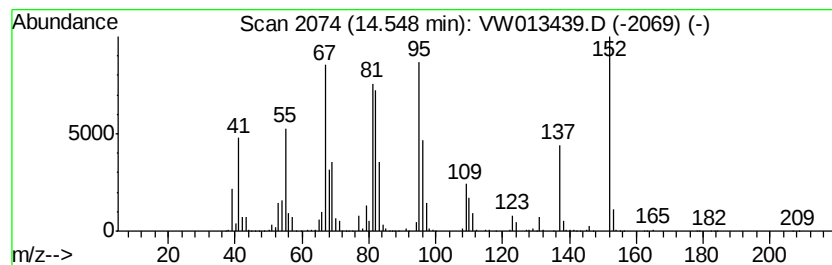
Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.55   | 372.23 ug/l                         | 5137810      | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | trans-Decalin, 2-methyl-            | 152 C11H20   | 1000152-47-3           | 90        |
| 2       | Naphthalene, decahydro-2-methyl-    | 152 C11H20   | 002958-76-1            | 87        |
| 3       | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 C10H16O  | 000464-48-2            | 68        |
| 4       | Bicyclo[4.1.0]heptane, 7-butyl-     | 152 C11H20   | 018645-10-8            | 53        |
| 5       | Cyclohexanone, 5-methyl-2-(1-met... | 152 C10H16O  | 015932-80-6            | 49        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

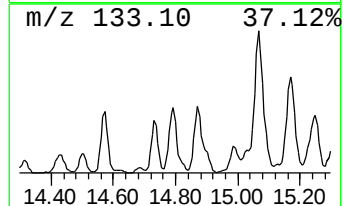
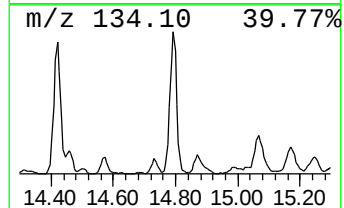
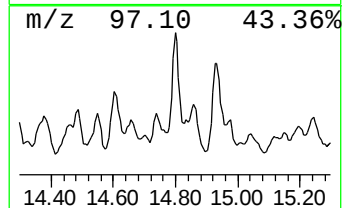
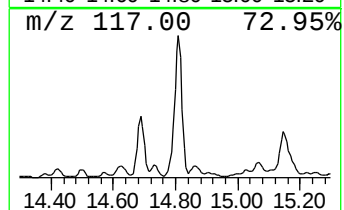
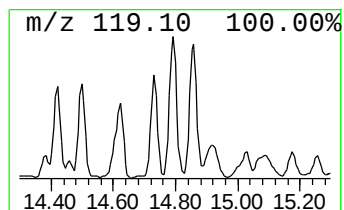
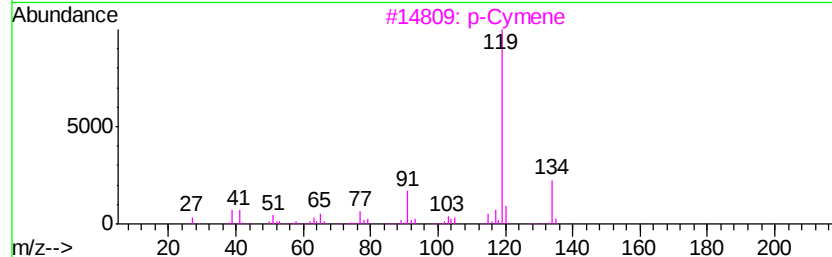
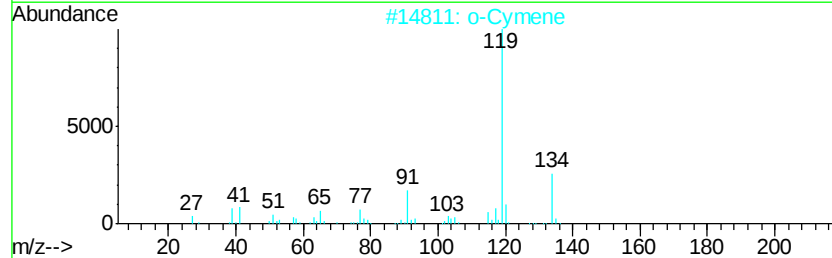
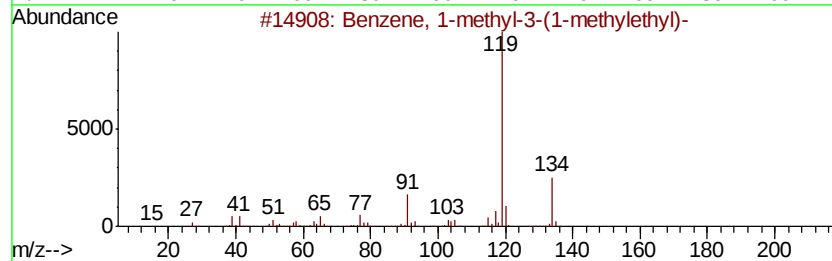
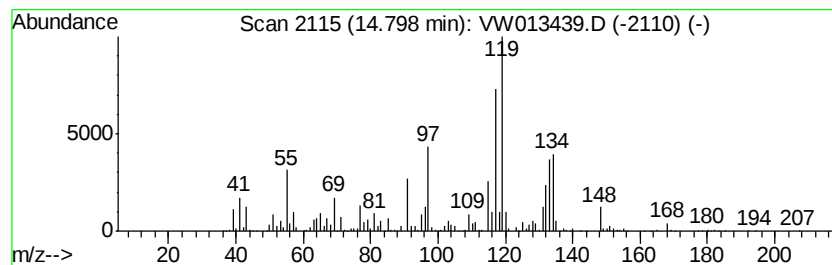
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 1-methyl-3-(1-meth... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.80 | 393.78 ug/l | 5435280 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 50   |
| 2    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 50   |
| 3    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 50   |
| 4    |    | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 43   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 41   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

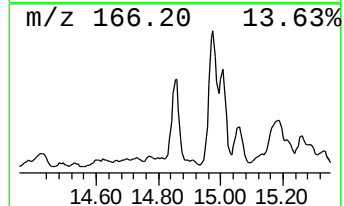
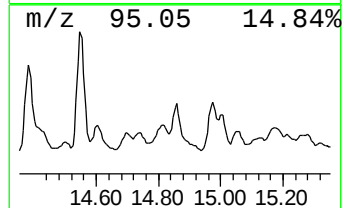
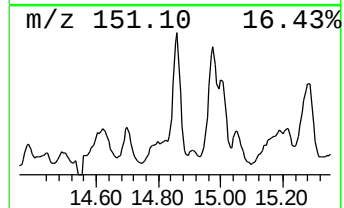
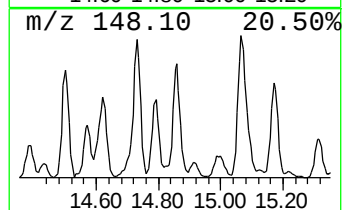
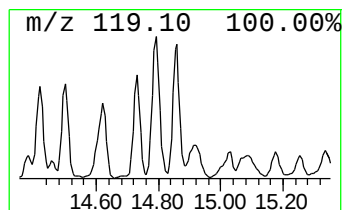
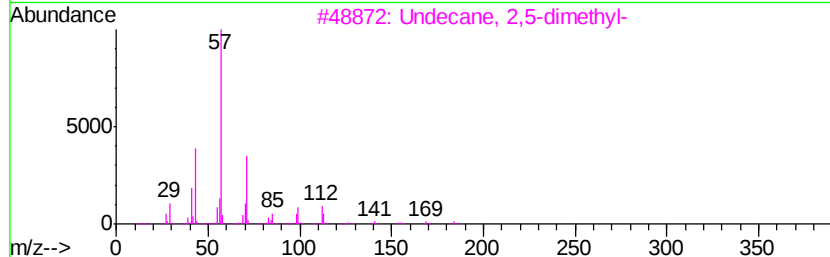
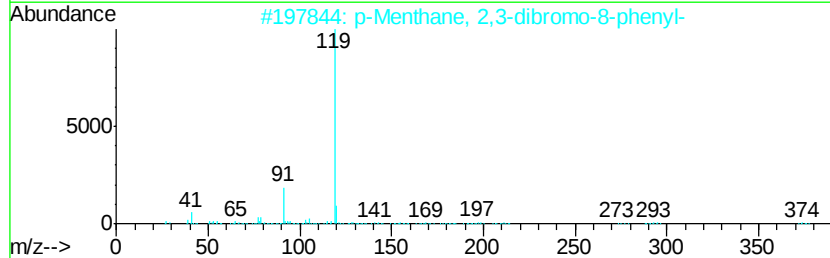
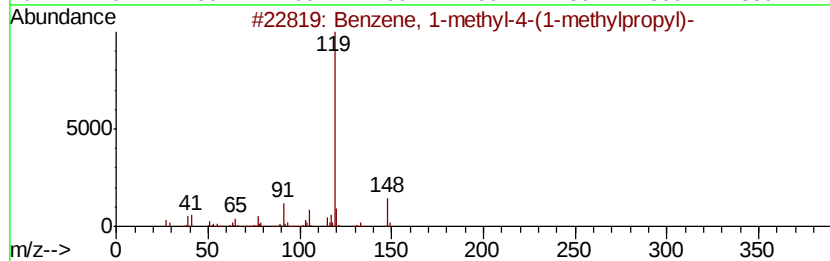
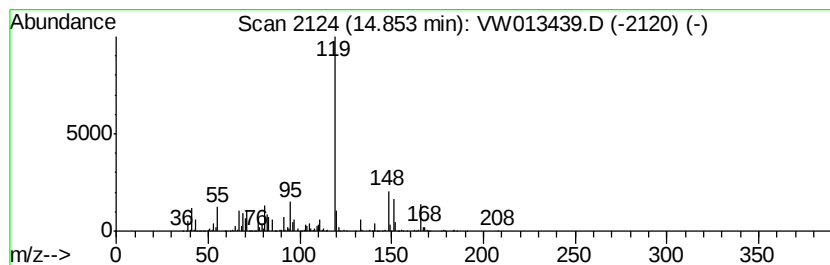
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 unknown14.85 Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.85 | 387.65 ug/l | 5350700 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16    | 001595-16-0  | 38   |
| 2    |    | p-Menthane, 2,3-dibromo-8-phenyl-   | 372 | C16H22Br2 | 1000152-61-6 | 35   |
| 3    |    | Undecane, 2,5-dimethyl-             | 184 | C13H28    | 017301-22-3  | 18   |
| 4    |    | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 15   |
| 5    |    | Sulfurous acid, 2-ethylhexyl tri... | 376 | C21H44O3S | 1000309-19-6 | 10   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

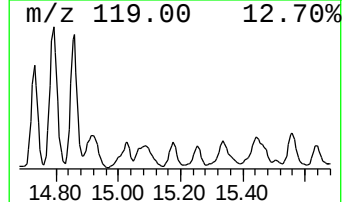
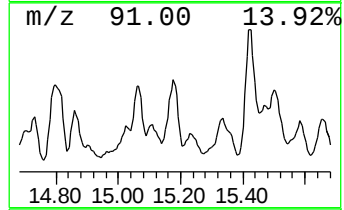
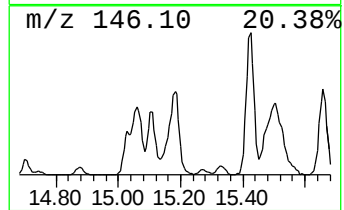
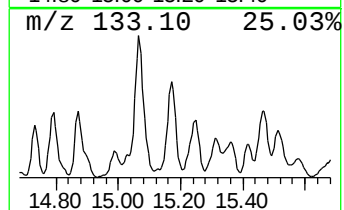
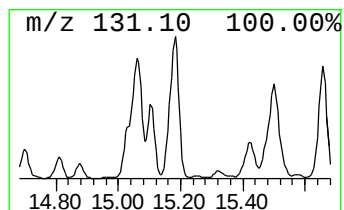
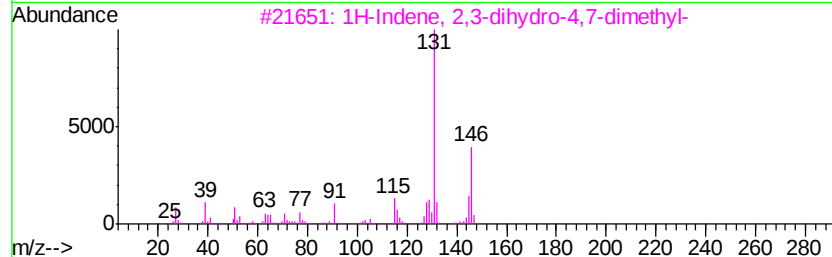
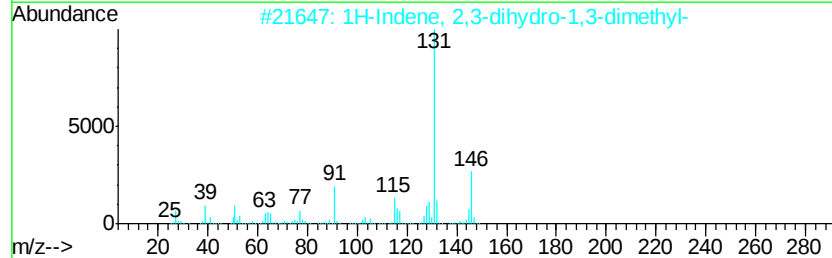
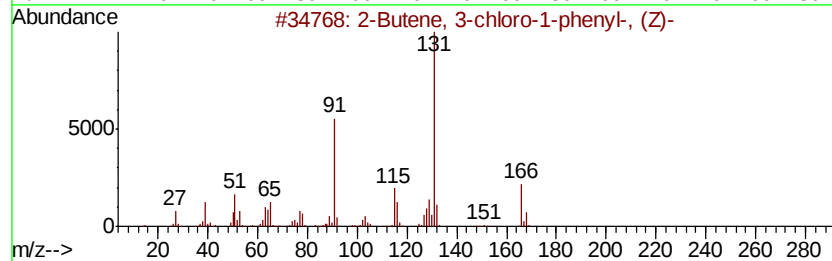
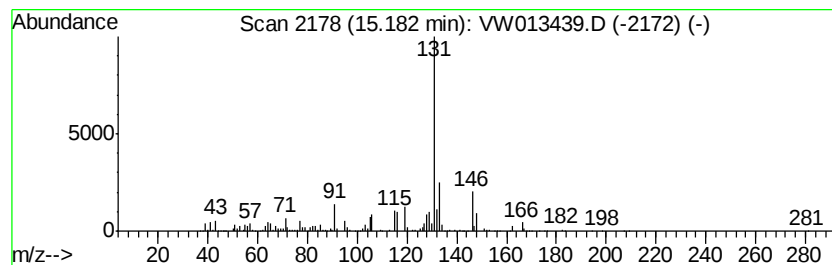
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2-Butene, 3-chloro-1-phenyl... Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.18 | 256.43 ug/l | 3539490 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Butene, 3-chloro-1-phenyl-, (Z)-  | 166 | C10H11Cl | 016608-68-7 | 87   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14   | 004175-53-5 | 64   |
| 3    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14   | 006682-71-9 | 64   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 | C11H14   | 027087-54-3 | 64   |
| 5    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14   | 020836-11-7 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

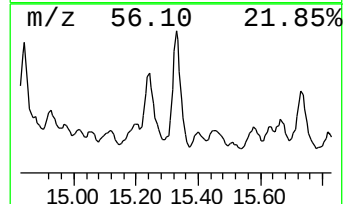
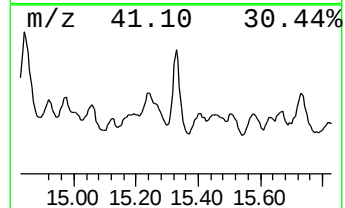
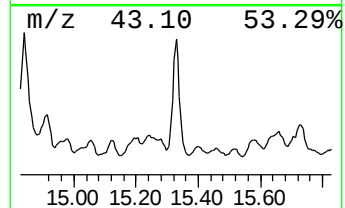
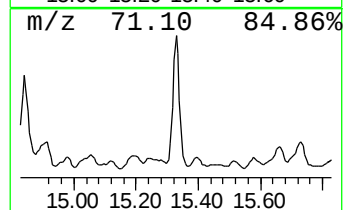
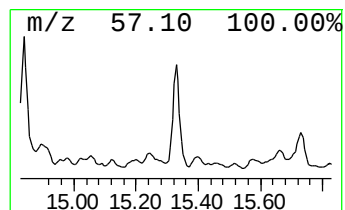
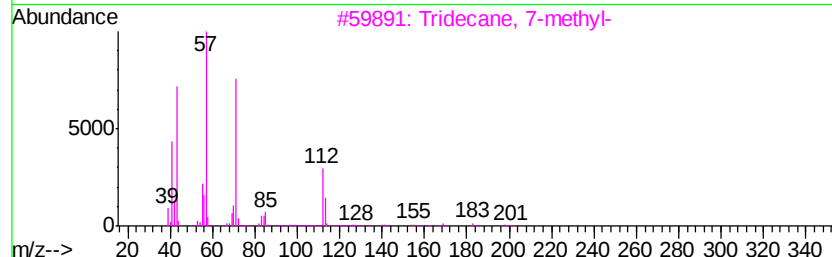
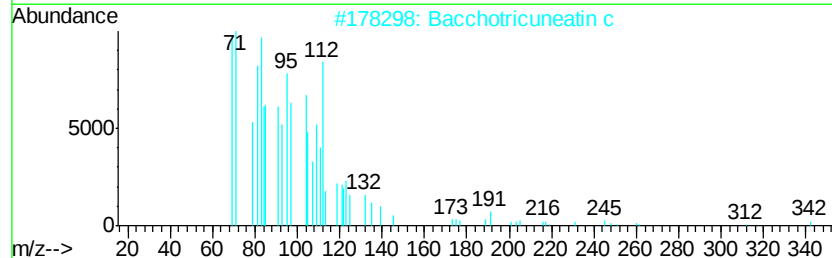
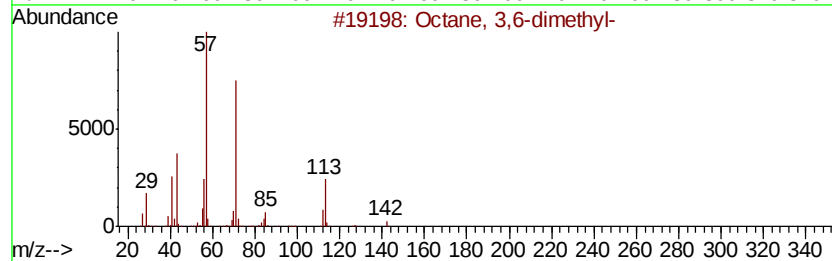
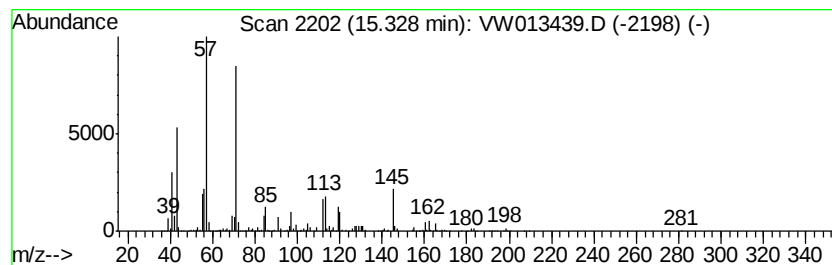
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Octane, 3,6-dimethyl- Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.33 | 338.73 ug/l | 4675350 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------|-----|----------|-------------|------|
| 1    | 5  | Octane, 3,6-dimethyl-      | 142 | C10H22   | 015869-94-0 | 62   |
| 2    |    | Bacchotricuneatin c        | 342 | C20H22O5 | 066563-30-2 | 58   |
| 3    |    | Tridecane, 7-methyl-       | 198 | C14H30   | 026730-14-3 | 53   |
| 4    |    | Undecane, 6,6-dimethyl-    | 184 | C13H28   | 017312-76-4 | 50   |
| 5    |    | Heptane, 3-ethyl-5-methyl- | 142 | C10H22   | 052896-90-9 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

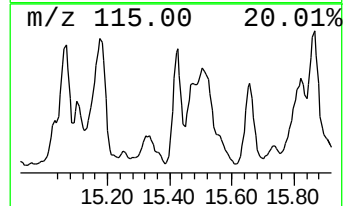
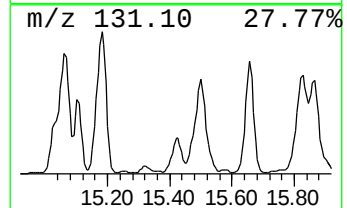
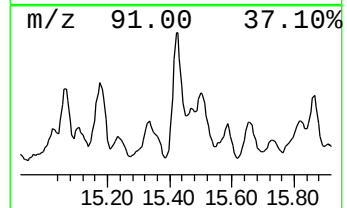
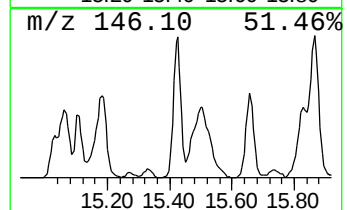
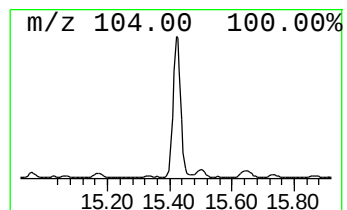
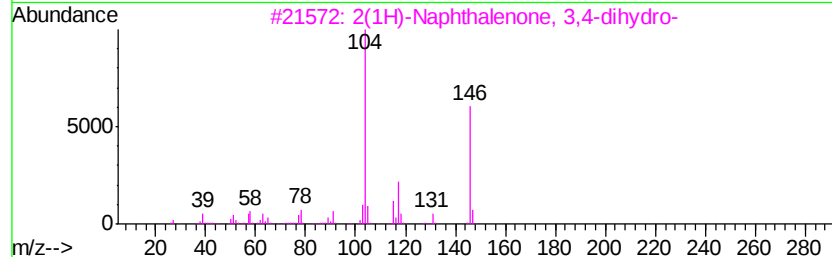
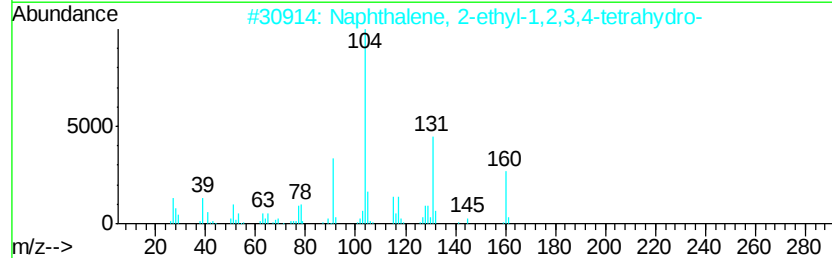
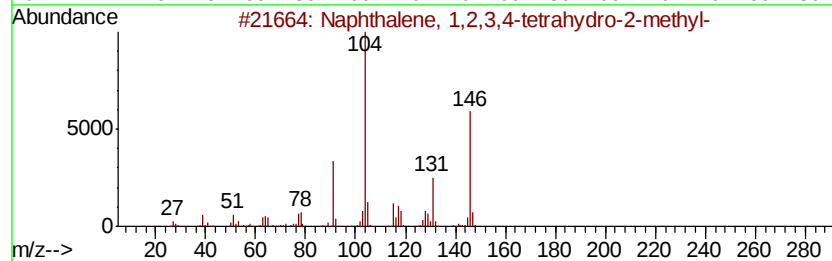
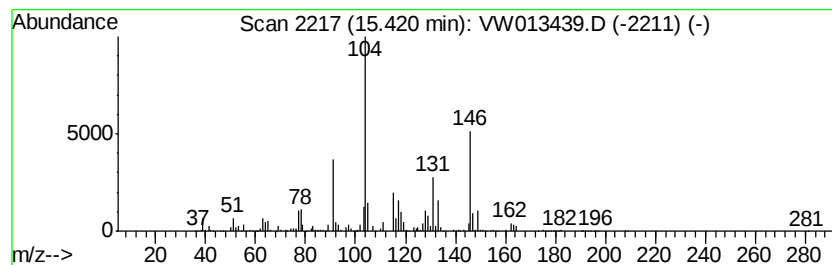
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Naphthalene, 1,2,3,4-tetra... Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.42 | 356.39 ug/l | 4919220 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-...  | 146 | C11H14  | 003877-19-8 | 96   |
| 2       |   | Naphthalene, 2-ethyl-1,2,3,4-tet...  | 160 | C12H16  | 032367-54-7 | 60   |
| 3       |   | 2(1H)-Naphthalenone, 3,4-dihydro-    | 146 | C10H10O | 000530-93-8 | 58   |
| 4       |   | 5H-Benzocycloheptene, 6,7,8,9-tet... | 146 | C11H14  | 001075-16-7 | 53   |
| 5       |   | Naphth[1,2-b]oxirene, 1a,2,3,7b-...  | 146 | C10H10O | 002461-34-9 | 52   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

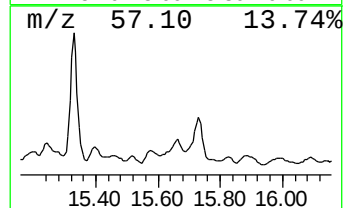
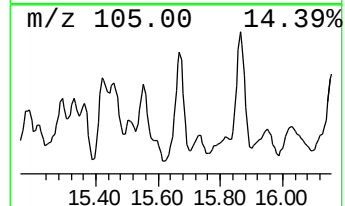
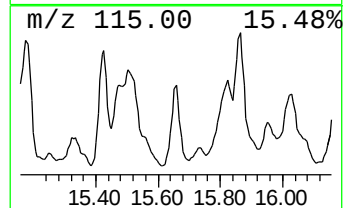
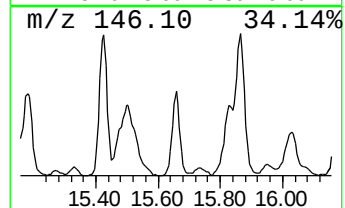
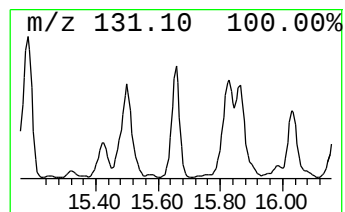
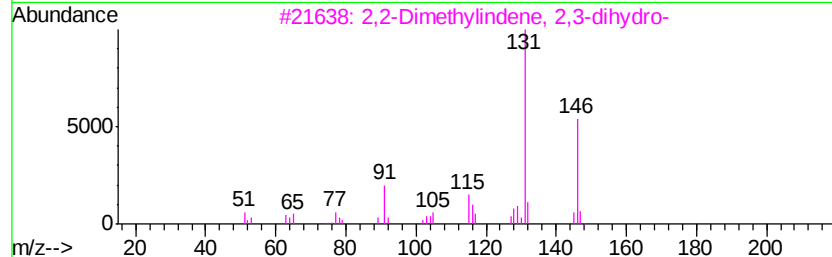
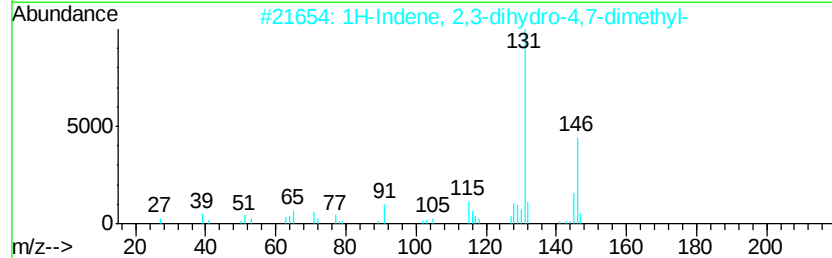
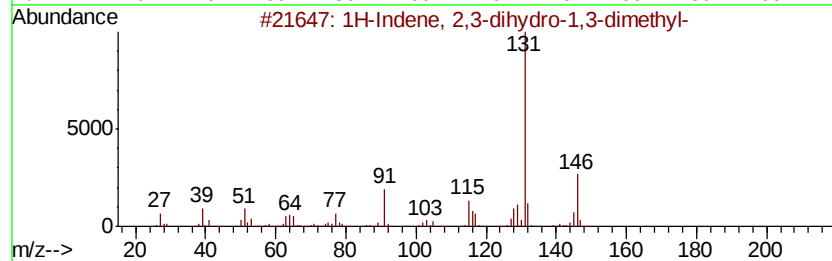
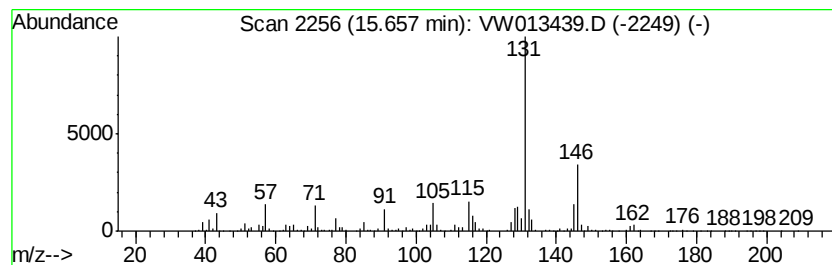
Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 9

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 15.66   | 307.91 ug/l                         | 4249930      | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 C11H14   | 004175-53-5            | 94        |
| 2       | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 C11H14   | 006682-71-9            | 93        |
| 3       | 2,2-Dimethylindene, 2,3-dihydro-    | 146 C11H14   | 020836-11-7            | 93        |
| 4       | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 C11H14   | 001075-22-5            | 93        |
| 5       | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 C11H14   | 017059-48-2            | 90        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260

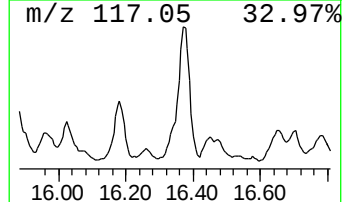
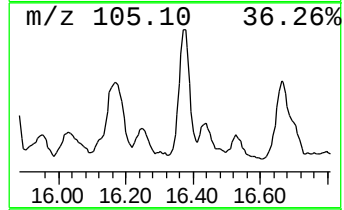
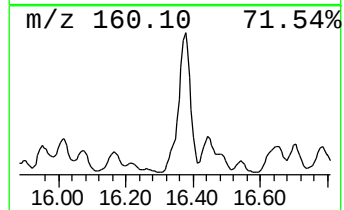
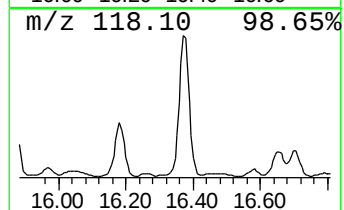
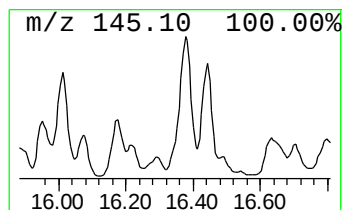
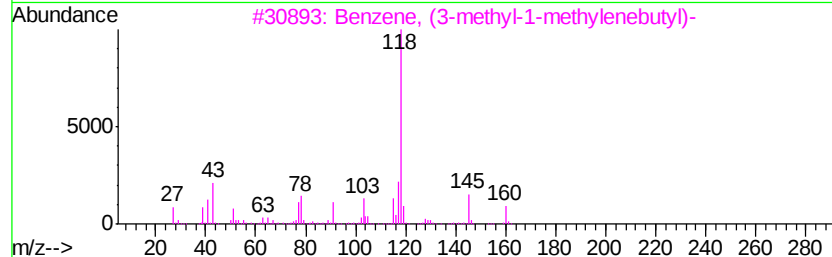
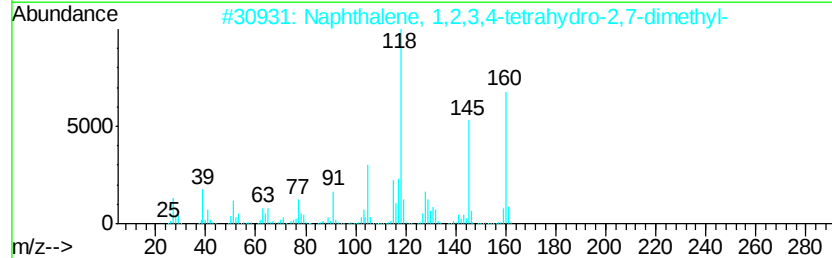
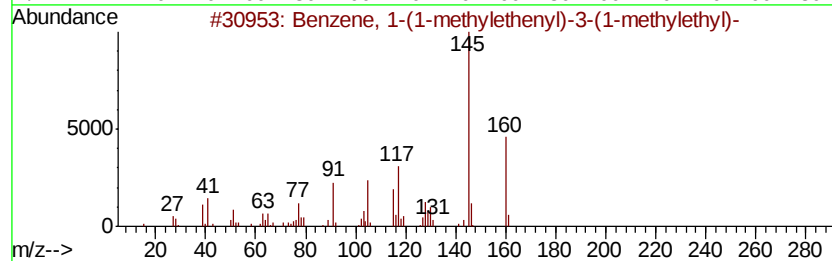
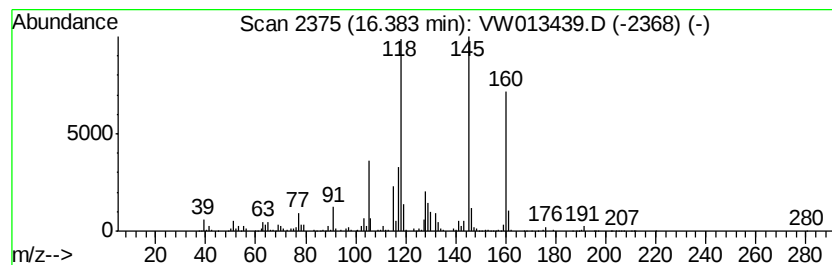
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-(1-methylethenyl)... Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.38 | 310.45 ug/l | 4285110 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-(1-methylethenyl)-3-(... | 160 | C12H16  | 001129-29-9 | 93   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 91   |
| 3    |    | Benzene, (3-methyl-1-methylenebu... | 160 | C12H16  | 038212-14-5 | 87   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 83   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 76   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100419\  
Data File : VW013439.D  
Acq On : 04 Oct 2019 15:19  
Operator : SY/VA  
Sample : K5213-03  
Misc : 5.10G/5ML/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-2(0-5)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.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 |
| Naphthalene, deca... | 13.88 | 392.5   | ug/l  | 5417010  | 4                     | 13.56 | 690138 | 50.0 |
| Naphthalene, deca... | 14.38 | 342.6   | ug/l  | 4728300  | 4                     | 13.56 | 690138 | 50.0 |
| trans-Decalin, 2-... | 14.55 | 372.2   | ug/l  | 5137810  | 4                     | 13.56 | 690138 | 50.0 |
| Benzene, 1-methyl... | 14.80 | 393.8   | ug/l  | 5435280  | 4                     | 13.56 | 690138 | 50.0 |
| unknown14.85         | 14.85 | 387.6   | ug/l  | 5350700  | 4                     | 13.56 | 690138 | 50.0 |
| 2-Butene, 3-chlor... | 15.18 | 256.4   | ug/l  | 3539490  | 4                     | 13.56 | 690138 | 50.0 |
| Octane, 3,6-dimet... | 15.33 | 338.7   | ug/l  | 4675350  | 4                     | 13.56 | 690138 | 50.0 |
| Naphthalene, 1,2,... | 15.42 | 356.4   | ug/l  | 4919220  | 4                     | 13.56 | 690138 | 50.0 |
| 1H-Indene, 2,3-di... | 15.66 | 307.9   | ug/l  | 4249930  | 4                     | 13.56 | 690138 | 50.0 |
| Benzene, 1-(1-met... | 16.38 | 310.4   | ug/l  | 4285110  | 4                     | 13.56 | 690138 | 50.0 |