

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
 Data File : VW006523.D  
 Acq On : 31 Oct 2018 14:01  
 Operator : SY/AP  
 Sample : J5711-01  
 Misc : 5.84G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-1

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\82W101518S.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         | 4.922       | 479           | 495         | 517          | rBV4     | 30666          | 163794        | 3.79%           | 0.218%        |
| 2         | 5.440       | 568           | 580         | 593          | rBV2     | 15204          | 53787         | 1.25%           | 0.072%        |
| 3         | 5.946       | 652           | 663         | 673          | rBV2     | 16864          | 50395         | 1.17%           | 0.067%        |
| 4         | 7.171       | 851           | 864         | 876          | rBV3     | 25258          | 74452         | 1.72%           | 0.099%        |
| 5         | 7.891       | 970           | 982         | 986          | rBV      | 174336         | 402923        | 9.33%           | 0.536%        |
| 6         | 7.952       | 986           | 992         | 1001         | rVB      | 426761         | 942778        | 21.84%          | 1.255%        |
| 7         | 8.311       | 1042          | 1051        | 1064         | rVB      | 146424         | 329582        | 7.63%           | 0.439%        |
| 8         | 8.848       | 1129          | 1139        | 1150         | rBV      | 574698         | 1163339       | 26.95%          | 1.548%        |
| 9         | 9.335       | 1206          | 1219        | 1226         | rBV      | 73039          | 186322        | 4.32%           | 0.248%        |
| 10        | 10.329      | 1374          | 1382        | 1398         | rBV      | 748895         | 1387784       | 32.15%          | 1.847%        |
| 11        | 10.671      | 1433          | 1438        | 1445         | rVB      | 59579          | 103908        | 2.41%           | 0.138%        |
| 12        | 10.762      | 1445          | 1453        | 1458         | rBV5     | 37602          | 102702        | 2.38%           | 0.137%        |
| 13        | 10.853      | 1463          | 1468        | 1474         | rVB3     | 25846          | 45900         | 1.06%           | 0.061%        |
| 14        | 10.939      | 1474          | 1482        | 1488         | rVB      | 67627          | 120234        | 2.79%           | 0.160%        |
| 15        | 11.042      | 1488          | 1499        | 1506         | rBV      | 55074          | 146550        | 3.39%           | 0.195%        |
| 16        | 11.116      | 1506          | 1511        | 1514         | rBV3     | 32355          | 58374         | 1.35%           | 0.078%        |
| 17        | 11.183      | 1517          | 1522        | 1526         | rVV      | 92531          | 161154        | 3.73%           | 0.214%        |
| 18        | 11.238      | 1526          | 1531        | 1536         | rVV      | 132876         | 232788        | 5.39%           | 0.310%        |
| 19        | 11.286      | 1536          | 1539        | 1543         | rVV      | 30997          | 44545         | 1.03%           | 0.059%        |
| 20        | 11.341      | 1543          | 1548        | 1552         | rVV2     | 77300          | 127335        | 2.95%           | 0.169%        |
| 21        | 11.414      | 1552          | 1560        | 1561         | rVV2     | 69530          | 140435        | 3.25%           | 0.187%        |
| 22        | 11.439      | 1561          | 1564        | 1572         | rVB      | 123900         | 215799        | 5.00%           | 0.287%        |
| 23        | 11.518      | 1572          | 1577        | 1581         | rBV      | 91465          | 149267        | 3.46%           | 0.199%        |
| 24        | 11.634      | 1589          | 1596        | 1605         | rBV      | 772499         | 1337287       | 30.98%          | 1.779%        |
| 25        | 11.768      | 1614          | 1618        | 1622         | rBV      | 52382          | 77786         | 1.80%           | 0.104%        |
| 26        | 11.823      | 1622          | 1627        | 1631         | rBV5     | 55762          | 105547        | 2.45%           | 0.140%        |
| 27        | 11.878      | 1631          | 1636        | 1640         | rBV      | 196456         | 343242        | 7.95%           | 0.457%        |
| 28        | 11.920      | 1640          | 1643        | 1648         | rVB      | 141043         | 230551        | 5.34%           | 0.307%        |
| 29        | 11.981      | 1648          | 1653        | 1655         | rBV3     | 34784          | 55329         | 1.28%           | 0.074%        |
| 30        | 12.061      | 1659          | 1666        | 1672         | rVB4     | 82703          | 204081        | 4.73%           | 0.272%        |
| 31        | 12.146      | 1672          | 1680        | 1685         | rBV3     | 359729         | 817419        | 18.94%          | 1.088%        |
| 32        | 12.256      | 1691          | 1698        | 1703         | rVB2     | 333701         | 612868        | 14.20%          | 0.816%        |
| 33        | 12.347      | 1703          | 1713        | 1714         | rBV3     | 372309         | 817889        | 18.95%          | 1.088%        |
| 34        | 12.463      | 1728          | 1732        | 1735         | rBV5     | 45903          | 81301         | 1.88%           | 0.108%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
 Data File : VW006523.D  
 Acq On : 31 Oct 2018 14:01  
 Operator : SY/AP  
 Sample : J5711-01  
 Misc : 5.84G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-1

## 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\82W101518S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.512 | 1736 | 1740 | 1743 | rVV3 | 127090  | 215357  | 4.99%  | 0.287% |
| 36 | 12.548 | 1743 | 1746 | 1753 | rVB3 | 272917  | 506842  | 11.74% | 0.674% |
| 37 | 12.621 | 1753 | 1758 | 1766 | rBV2 | 636651  | 1146007 | 26.55% | 1.525% |
| 38 | 12.707 | 1767 | 1772 | 1776 | rBV3 | 151123  | 293917  | 6.81%  | 0.391% |
| 39 | 12.749 | 1777 | 1779 | 1781 | rBV2 | 42127   | 51731   | 1.20%  | 0.069% |
| 40 | 12.786 | 1781 | 1785 | 1793 | rVB2 | 471999  | 1050334 | 24.33% | 1.398% |
| 41 | 12.865 | 1793 | 1798 | 1802 | rBV4 | 229534  | 493501  | 11.43% | 0.657% |
| 42 | 12.945 | 1804 | 1811 | 1816 | rBV4 | 493025  | 1166690 | 27.03% | 1.552% |
| 43 | 12.999 | 1816 | 1820 | 1825 | rVB3 | 311015  | 525479  | 12.17% | 0.699% |
| 44 | 13.048 | 1825 | 1828 | 1830 | rBV2 | 50670   | 74360   | 1.72%  | 0.099% |
| 45 | 13.085 | 1830 | 1834 | 1838 | rBV3 | 321354  | 481505  | 11.15% | 0.641% |
| 46 | 13.134 | 1838 | 1842 | 1844 | rBV2 | 278056  | 409627  | 9.49%  | 0.545% |
| 47 | 13.170 | 1844 | 1848 | 1855 | rVB2 | 1073022 | 1632387 | 37.81% | 2.172% |
| 48 | 13.274 | 1862 | 1865 | 1866 | rBV2 | 84996   | 106623  | 2.47%  | 0.142% |
| 49 | 13.298 | 1866 | 1869 | 1873 | rVV  | 361610  | 530669  | 12.29% | 0.706% |
| 50 | 13.353 | 1874 | 1878 | 1881 | rVV2 | 309197  | 574913  | 13.32% | 0.765% |
| 51 | 13.384 | 1881 | 1883 | 1887 | rVV2 | 305404  | 434373  | 10.06% | 0.578% |
| 52 | 13.457 | 1887 | 1895 | 1898 | rVV4 | 645515  | 1436636 | 33.28% | 1.912% |
| 53 | 13.493 | 1898 | 1901 | 1904 | rVV2 | 491238  | 665483  | 15.42% | 0.886% |
| 54 | 13.530 | 1904 | 1907 | 1908 | rVV2 | 167583  | 203920  | 4.72%  | 0.271% |
| 55 | 13.566 | 1908 | 1913 | 1921 | rVB  | 866924  | 1616450 | 37.45% | 2.151% |
| 56 | 13.633 | 1921 | 1924 | 1927 | rBV3 | 105454  | 153137  | 3.55%  | 0.204% |
| 57 | 13.719 | 1931 | 1938 | 1949 | rVB6 | 357639  | 1227049 | 28.42% | 1.633% |
| 58 | 13.810 | 1949 | 1953 | 1955 | rBV3 | 155959  | 239884  | 5.56%  | 0.319% |
| 59 | 13.883 | 1960 | 1965 | 1970 | rBV2 | 1613013 | 2972349 | 68.85% | 3.955% |
| 60 | 13.926 | 1970 | 1972 | 1977 | rVB2 | 397283  | 515447  | 11.94% | 0.686% |
| 61 | 13.987 | 1978 | 1982 | 1986 | rBV4 | 493035  | 875989  | 20.29% | 1.166% |
| 62 | 14.036 | 1986 | 1990 | 1994 | rBV3 | 311698  | 650263  | 15.06% | 0.865% |
| 63 | 14.103 | 1997 | 2001 | 2005 | rVB  | 971454  | 1339469 | 31.03% | 1.782% |
| 64 | 14.139 | 2005 | 2007 | 2013 | rVB3 | 657877  | 945242  | 21.90% | 1.258% |
| 65 | 14.213 | 2013 | 2019 | 2024 | rBV3 | 965965  | 1842906 | 42.69% | 2.452% |
| 66 | 14.274 | 2024 | 2029 | 2034 | rBV4 | 711006  | 1273758 | 29.51% | 1.695% |
| 67 | 14.328 | 2034 | 2038 | 2040 | rBV3 | 327961  | 480466  | 11.13% | 0.639% |
| 68 | 14.353 | 2040 | 2042 | 2044 | rBV  | 174040  | 189034  | 4.38%  | 0.252% |
| 69 | 14.396 | 2044 | 2049 | 2052 | rBV2 | 1648512 | 2529183 | 58.59% | 3.365% |
| 70 | 14.505 | 2063 | 2067 | 2069 | rBV3 | 288676  | 431838  | 10.00% | 0.575% |
| 71 | 14.560 | 2070 | 2076 | 2081 | rVV5 | 1299093 | 2669735 | 61.84% | 3.553% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
 Data File : VW006523.D  
 Acq On : 31 Oct 2018 14:01  
 Operator : SY/AP  
 Sample : J5711-01  
 Misc : 5.84G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-1

## 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\82W101518S.M  
 Title : SW846 8260

|    |        |      |      |      |       |         |         |         |        |
|----|--------|------|------|------|-------|---------|---------|---------|--------|
| 72 | 14.609 | 2081 | 2084 | 2089 | rVB3  | 427119  | 683413  | 15.83%  | 0.909% |
| 73 | 14.700 | 2096 | 2099 | 2103 | rVB3  | 330035  | 459953  | 10.65%  | 0.612% |
| 74 | 14.749 | 2104 | 2107 | 2111 | rBV3  | 323012  | 455477  | 10.55%  | 0.606% |
| 75 | 14.810 | 2112 | 2117 | 2121 | rBV3  | 1719822 | 3601683 | 83.43%  | 4.793% |
| 76 | 14.853 | 2121 | 2124 | 2131 | rVB2  | 2196690 | 4067603 | 94.23%  | 5.413% |
| 77 | 15.017 | 2148 | 2151 | 2156 | rBV4  | 311966  | 556326  | 12.89%  | 0.740% |
| 78 | 15.072 | 2157 | 2160 | 2164 | rVB3  | 854430  | 1274505 | 29.52%  | 1.696% |
| 79 | 15.133 | 2164 | 2170 | 2173 | rBV3  | 603353  | 1282996 | 29.72%  | 1.707% |
| 80 | 15.188 | 2174 | 2179 | 2187 | rVV4  | 940913  | 2339089 | 54.19%  | 3.113% |
| 81 | 15.280 | 2190 | 2194 | 2199 | rVB3  | 1050782 | 1934681 | 44.82%  | 2.574% |
| 82 | 15.340 | 2199 | 2204 | 2210 | rVB2  | 1526685 | 2628490 | 60.89%  | 3.498% |
| 83 | 15.414 | 2211 | 2216 | 2221 | rBV6  | 734304  | 1693732 | 39.24%  | 2.254% |
| 84 | 15.676 | 2250 | 2259 | 2264 | rBV10 | 799300  | 2810750 | 65.11%  | 3.740% |
| 85 | 15.743 | 2267 | 2270 | 2276 | rVB5  | 871991  | 1557103 | 36.07%  | 2.072% |
| 86 | 16.182 | 2338 | 2342 | 2347 | rVB6  | 542873  | 933210  | 21.62%  | 1.242% |
| 87 | 16.304 | 2358 | 2362 | 2369 | rVB2  | 875107  | 1514901 | 35.09%  | 2.016% |
| 88 | 16.651 | 2413 | 2419 | 2432 | rVB8  | 1148845 | 4316848 | 100.00% | 5.744% |

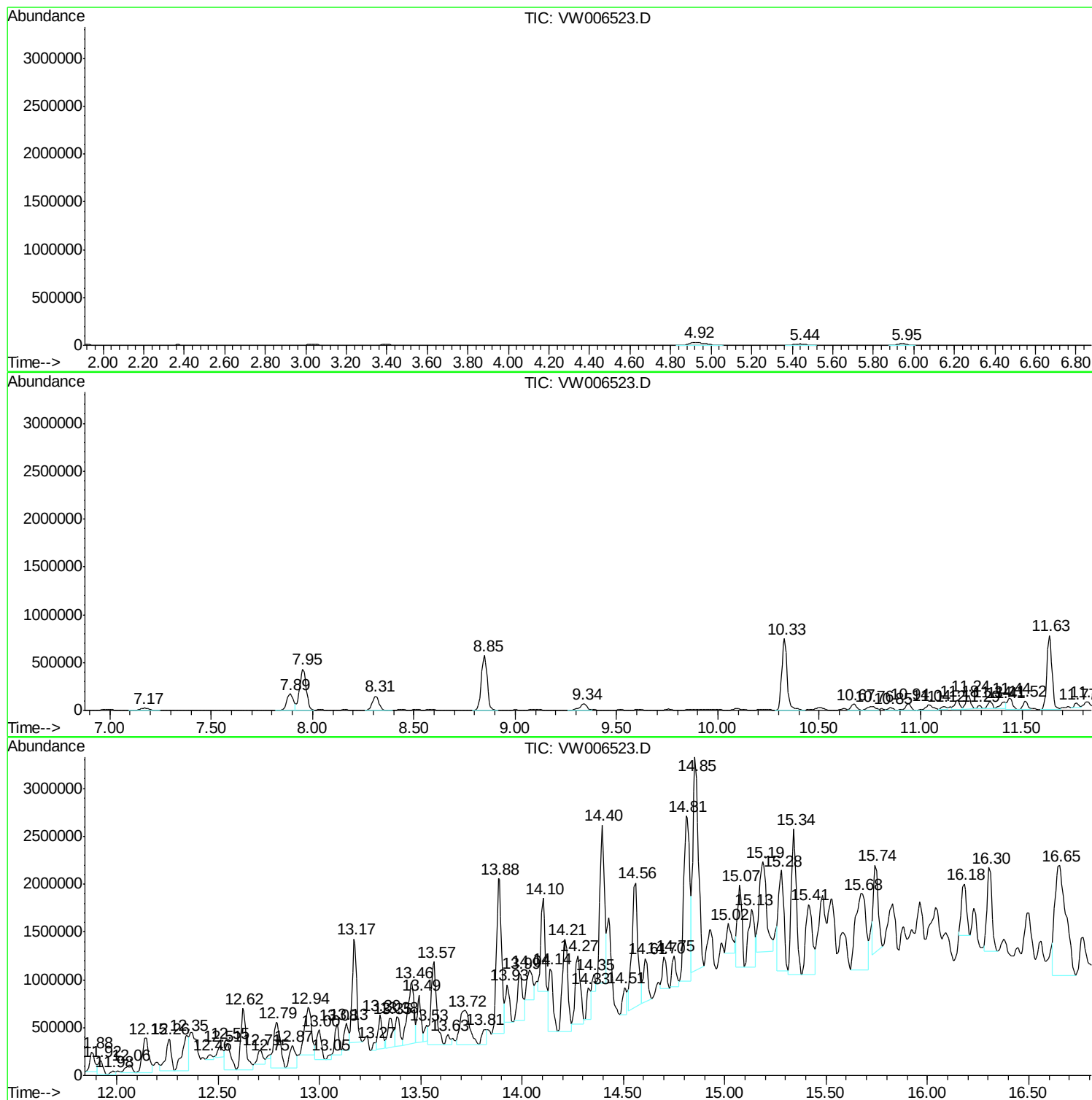
Sum of corrected areas: 75150760

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

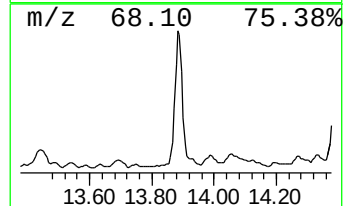
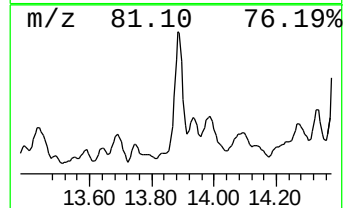
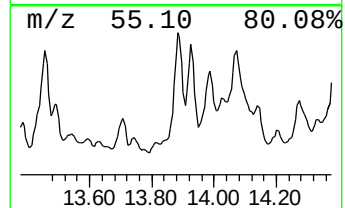
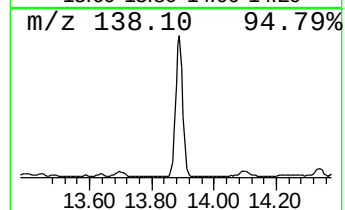
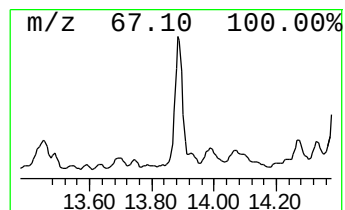
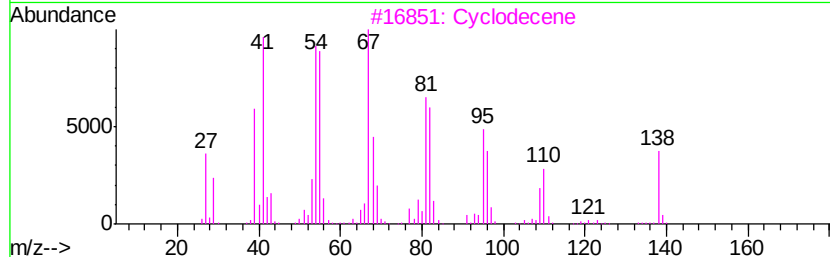
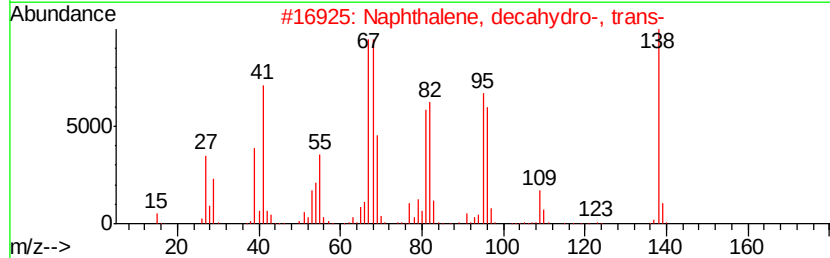
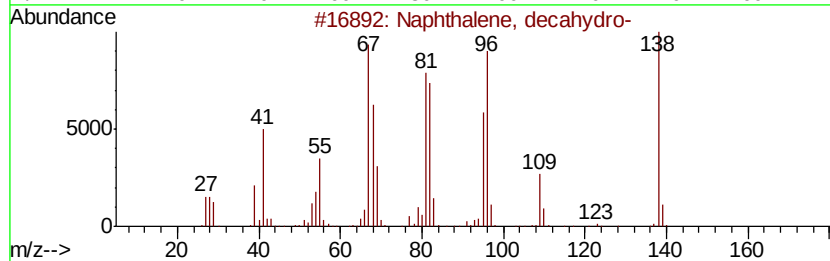
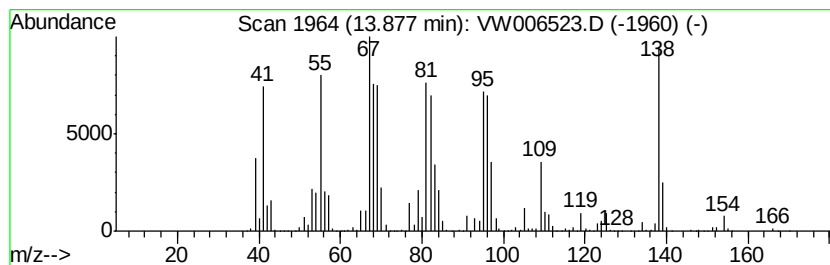
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Naphthalene, decahydro- Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.88 | 91.94 ug/l | 2972350 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, decahydro-             | 138 | C10H18  | 000091-17-8 | 96   |
| 2    |    |   | Naphthalene, decahydro-, trans-     | 138 | C10H18  | 000493-02-7 | 93   |
| 3    |    |   | Cyclodecene                         | 138 | C10H18  | 003618-12-0 | 81   |
| 4    |    |   | Cyclohexane, 1-methyl-3-(1-methy... | 138 | C10H18  | 024399-15-3 | 81   |
| 5    |    |   | Naphthalene, decahydro-, cis-       | 138 | C10H18  | 000493-01-6 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

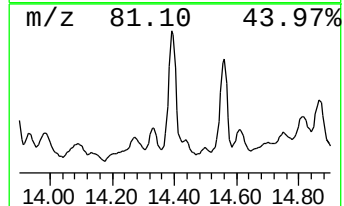
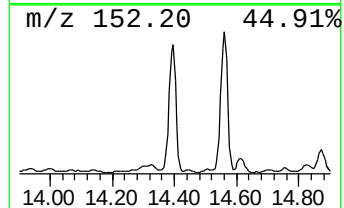
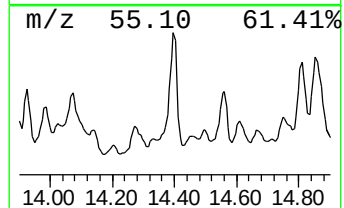
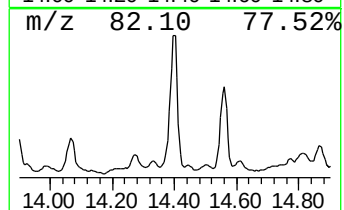
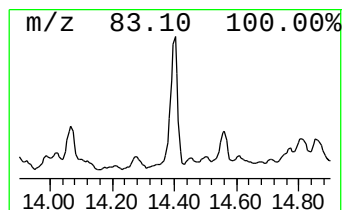
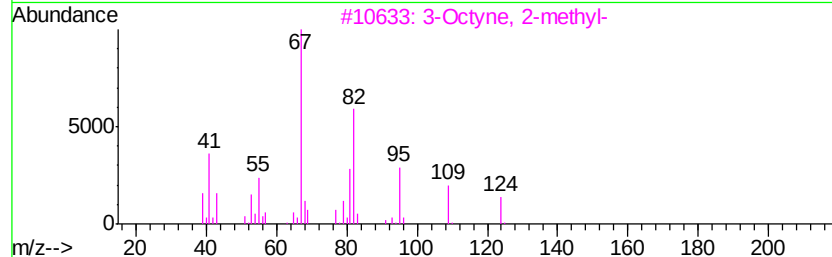
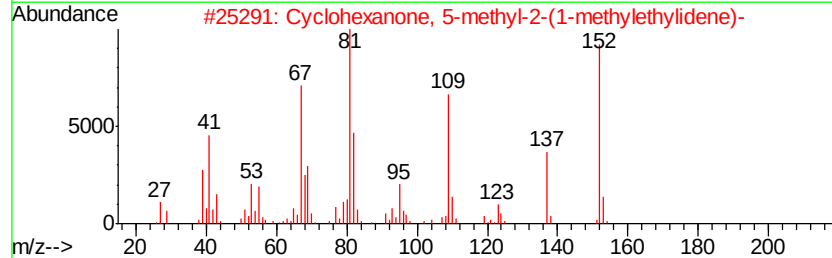
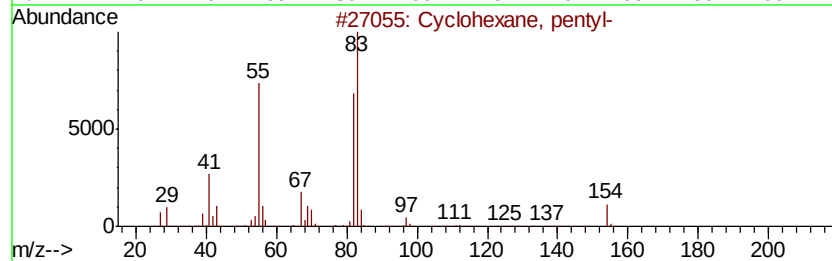
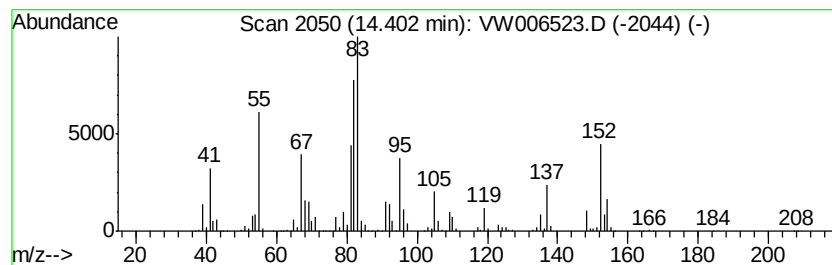
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown14.40 Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.40 | 78.23 ug/l | 2529180 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 43   |
| 2    |    | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6 | 42   |
| 3    |    | 3-Octyne, 2-methyl-                 | 124 | C9H16   | 055402-15-8 | 38   |
| 4    |    | Pulegone                            | 152 | C10H16O | 000089-82-7 | 30   |
| 5    |    | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1 | 27   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

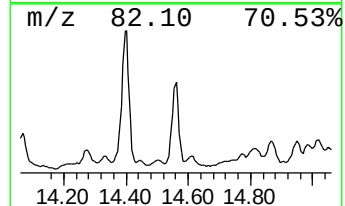
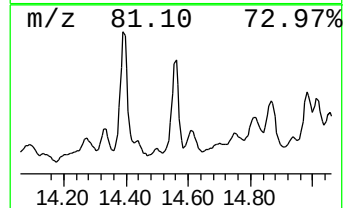
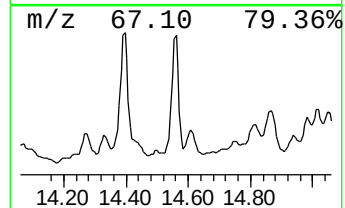
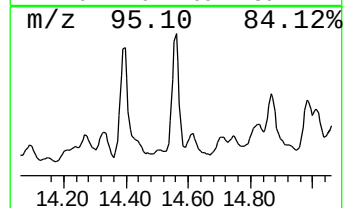
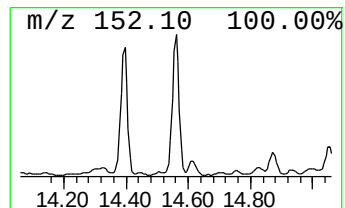
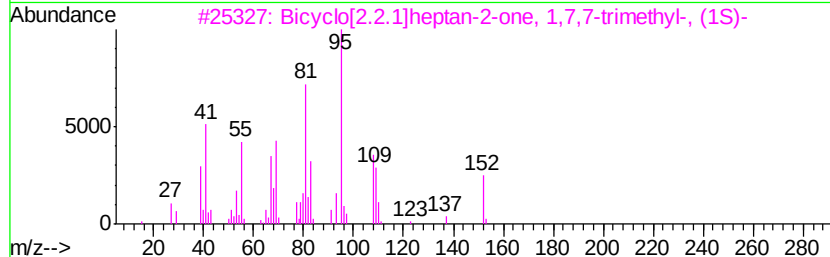
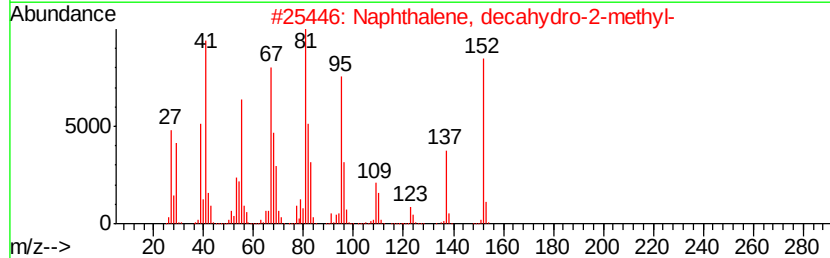
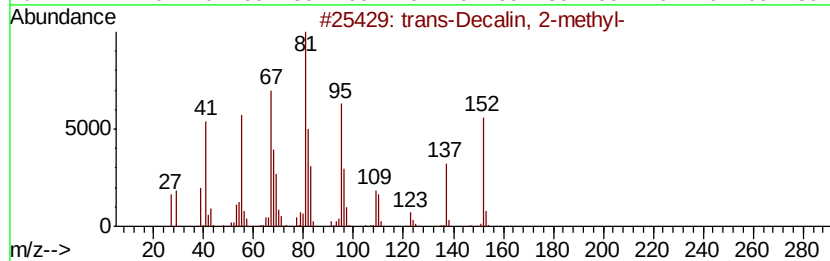
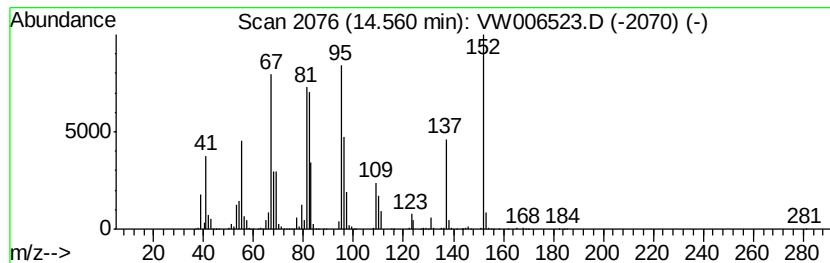
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.56 | 82.58 ug/l | 2669740 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 72   |
| 2    |    | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 70   |
| 3    |    | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2  | 58   |
| 4    |    | Pulegone                            | 152 | C10H16O | 000089-82-7  | 52   |
| 5    |    | Bicyclo[4.1.0]heptane, 2-methyl-    | 110 | C8H14   | 041977-46-2  | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

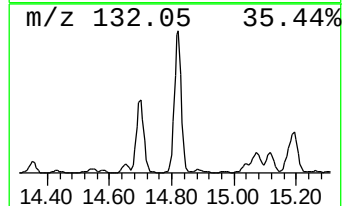
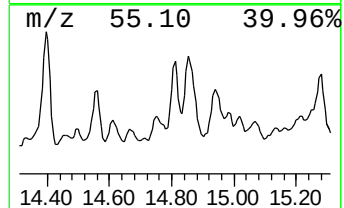
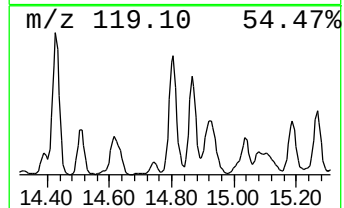
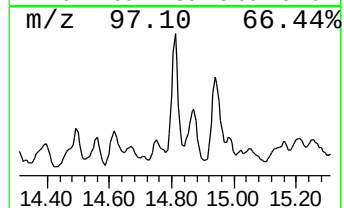
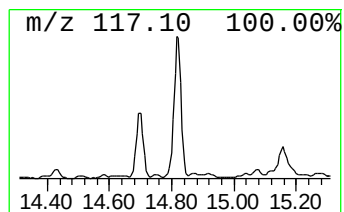
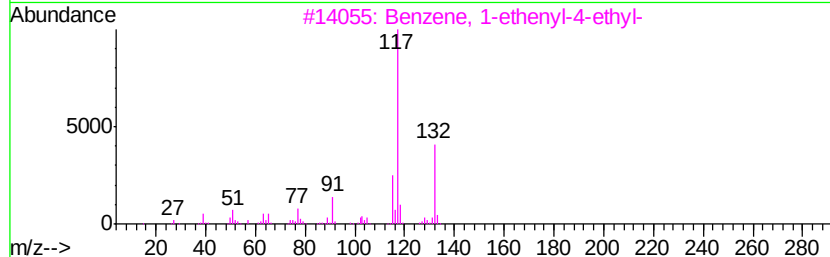
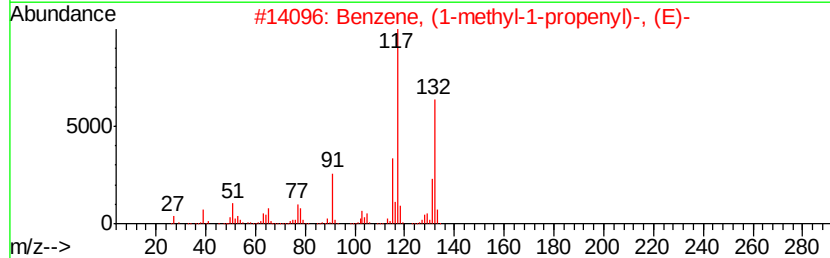
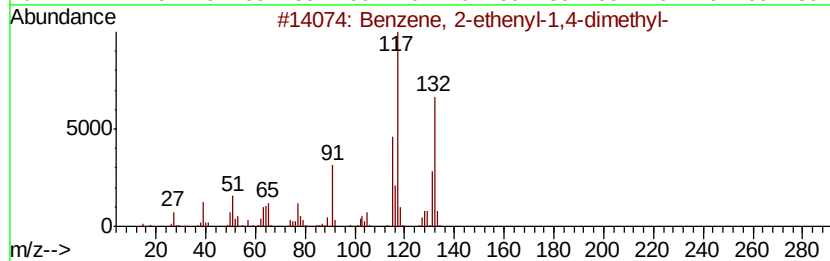
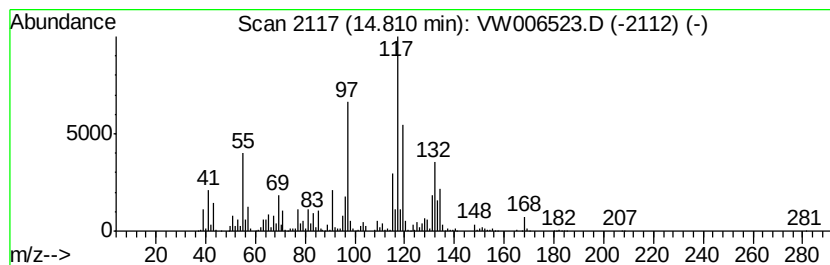
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.81 | 111.41 ug/l | 3601680 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# of | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|---------|--------------------------------------|-----|---------|--------------|------|
| 1       | Benzene, 2-ethenyl-1,4-dimethyl-     | 132 | C10H12  | 002039-89-6  | 83   |
| 2       | Benzene, (1-methyl-1-propenyl)-, ... | 132 | C10H12  | 000768-00-3  | 60   |
| 3       | Benzene, 1-ethenyl-4-ethyl-          | 132 | C10H12  | 003454-07-7  | 55   |
| 4       | 1-Phenyl-1-butene                    | 132 | C10H12  | 000824-90-8  | 53   |
| 5       | Benzene, (2-methylcyclopropyl)-      | 132 | C10H12  | 1000327-39-0 | 50   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

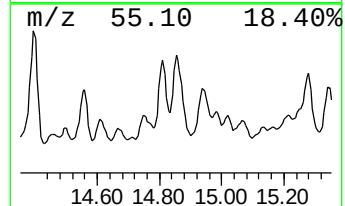
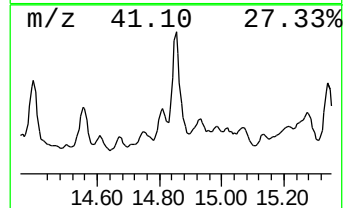
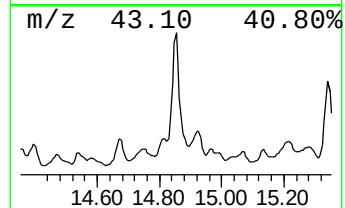
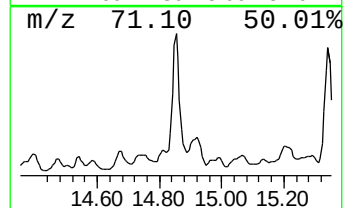
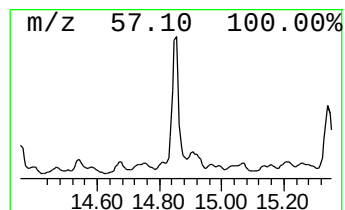
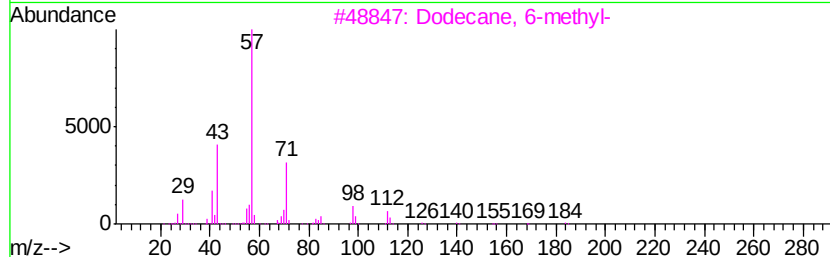
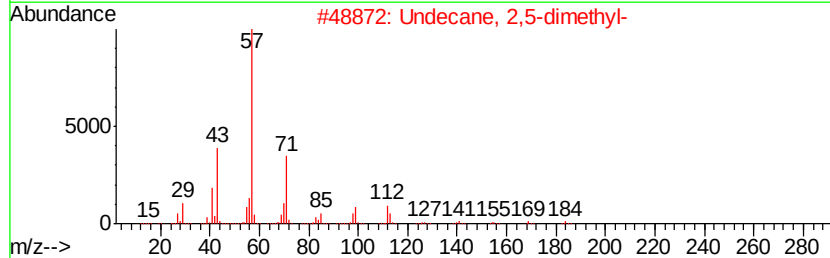
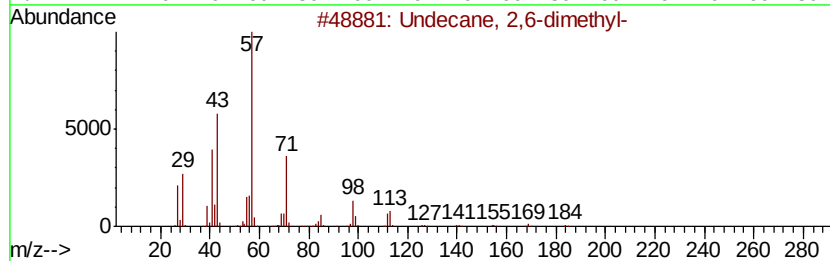
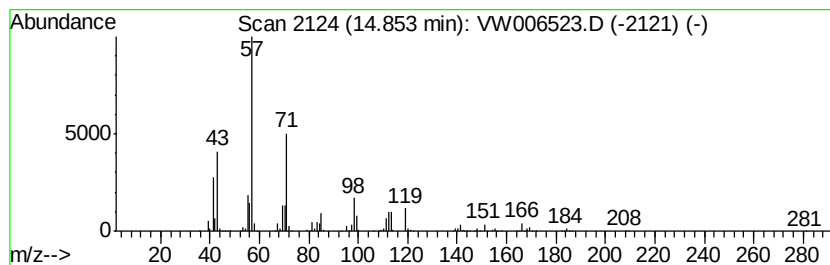
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Undecane, 2,6-dimethyl- Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.85 | 125.82 ug/l | 4067600 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of              | 5                   | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|------|-----------------|---------------------|--------------|-----|-----------|--------------|------|
| 1    | Undecane,       | 2,6-dimethyl-       |              | 184 | C13H28    | 017301-23-4  | 90   |
| 2    | Undecane,       | 2,5-dimethyl-       |              | 184 | C13H28    | 017301-22-3  | 60   |
| 3    | Dodecane,       | 6-methyl-           |              | 184 | C13H28    | 006044-71-9  | 58   |
| 4    | Sulfurous acid, | decyl 2-ethylhex... |              | 334 | C18H38O3S | 1000309-19-3 | 53   |
| 5    | Sulfurous acid, | butyl 2-ethylhex... |              | 250 | C12H26O3S | 1000309-18-8 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

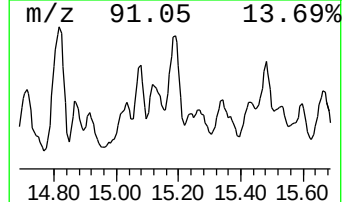
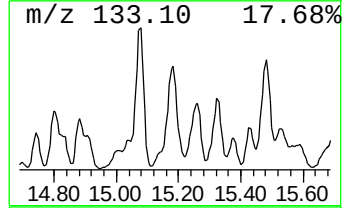
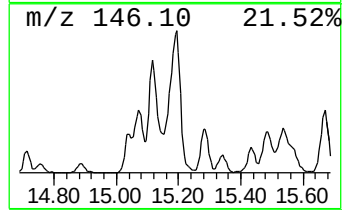
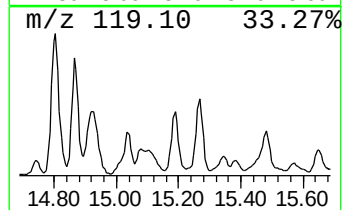
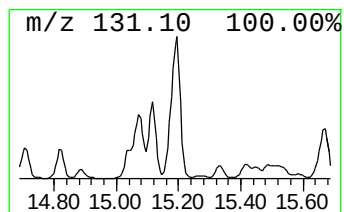
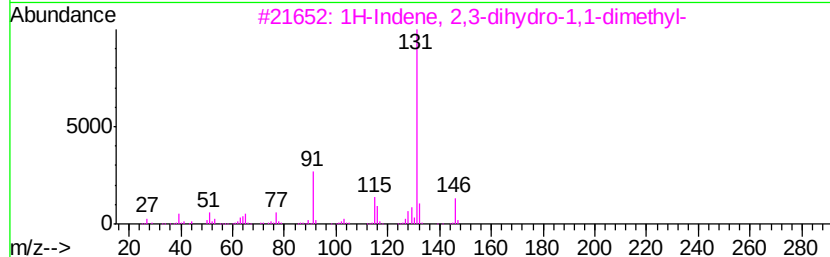
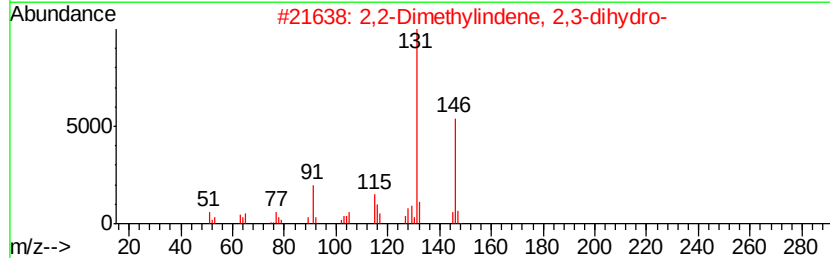
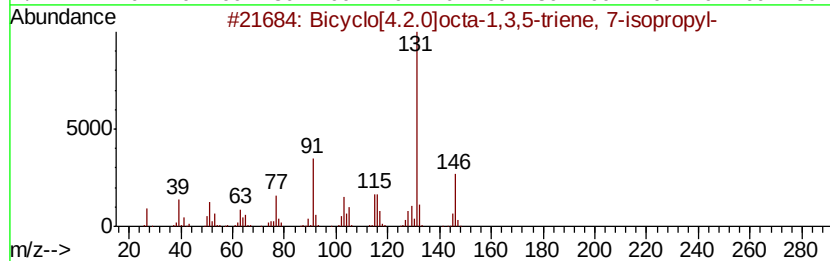
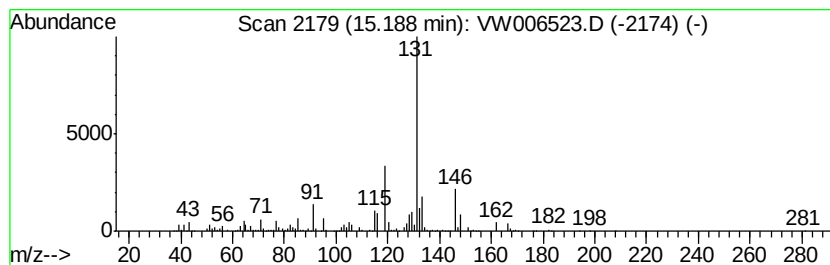
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 9

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 15.19   | 72.35 ug/l | 2339090                             | 1,4-Dichlorobenzene-d4 | 13.57          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 C11H14             | 027087-54-3 76 |
| 2       |            | 2,2-Dimethylindene, 2,3-dihydro-    | 146 C11H14             | 020836-11-7 76 |
| 3       |            | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 C11H14             | 004912-92-9 76 |
| 4       |            | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 C11H14             | 017059-48-2 76 |
| 5       |            | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 C11H14             | 004175-53-5 76 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

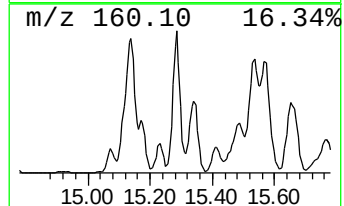
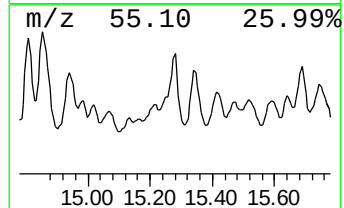
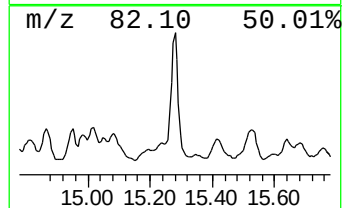
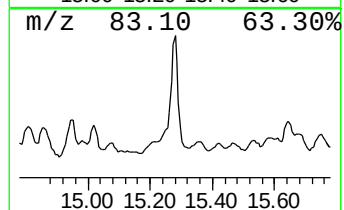
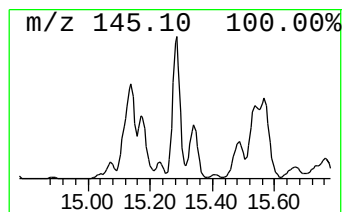
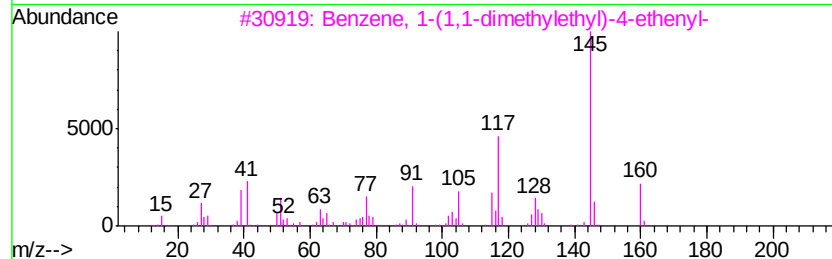
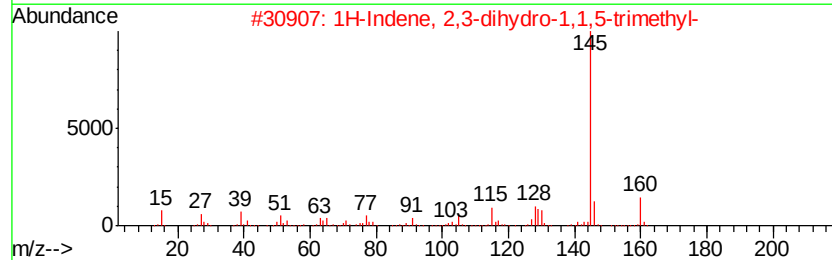
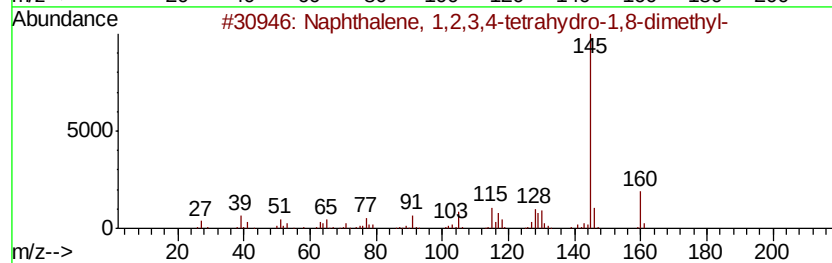
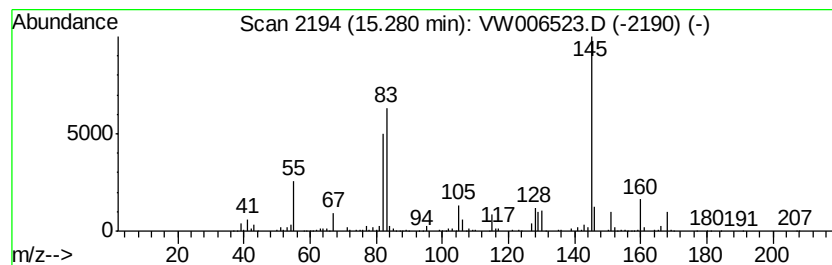
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Naphthalene, 1,2,3,4-tetra... Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.28 | 59.84 ug/l | 1934680 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 025419-33-4 | 55   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160 | C12H16  | 040650-41-7 | 55   |
| 3    |    | Benzene, 1-(1,1-dimethylethyl)-4... | 160 | C12H16  | 001746-23-2 | 46   |
| 4    |    | Benzene, 1-(1-methylethenyl)-2-(... | 160 | C12H16  | 005557-93-7 | 46   |
| 5    |    | Benzene, 1-(1-methylethenyl)-4-(... | 160 | C12H16  | 002388-14-9 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

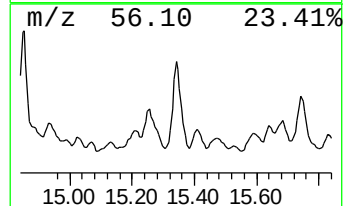
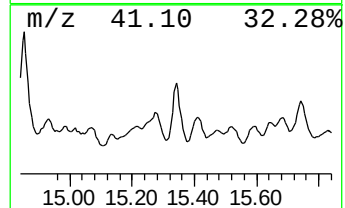
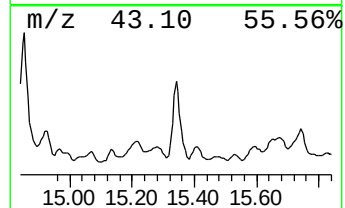
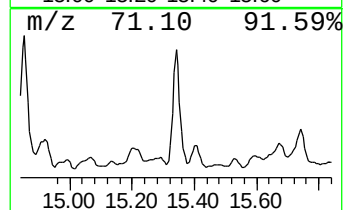
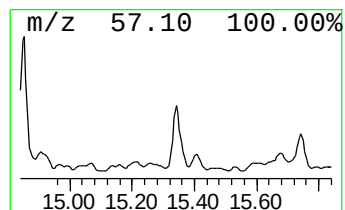
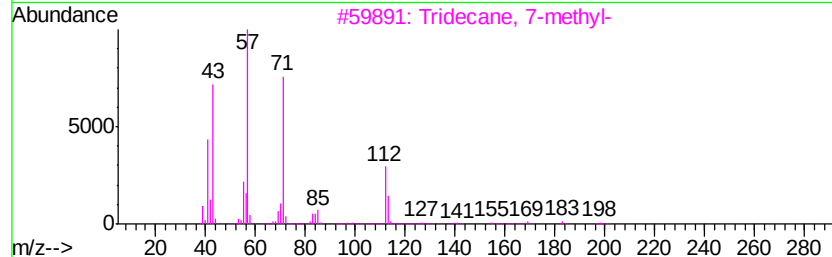
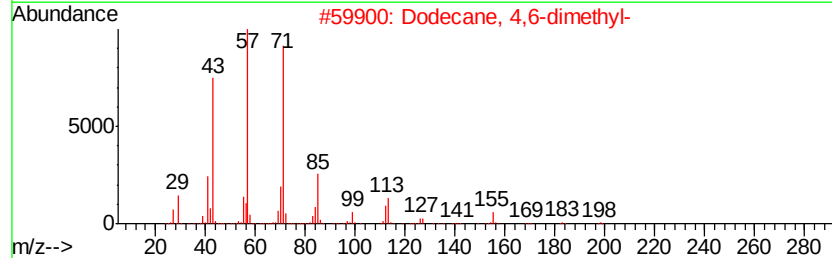
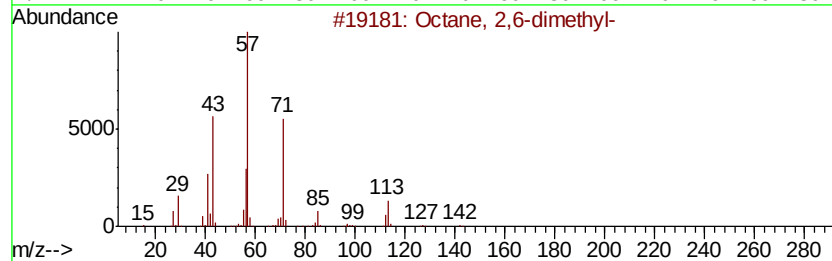
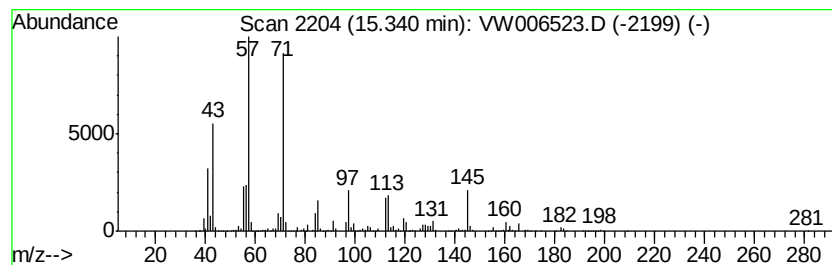
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Octane, 2,6-dimethyl- Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.34 | 81.30 ug/l | 2628490 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-               | 142 | C10H22   | 002051-30-1  | 64   |
| 2    |    | Dodecane, 4,6-dimethyl-             | 198 | C14H30   | 061141-72-8  | 58   |
| 3    |    | Tridecane, 7-methyl-                | 198 | C14H30   | 026730-14-3  | 58   |
| 4    |    | Carbonic acid, neopentyl 2-ethyl... | 244 | C14H28O3 | 1000357-85-7 | 53   |
| 5    |    | Bacchotricuneatin c                 | 342 | C20H22O5 | 066563-30-2  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

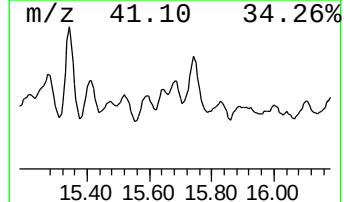
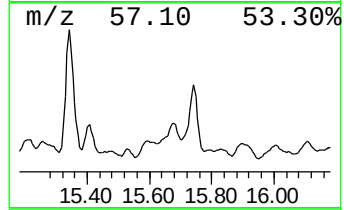
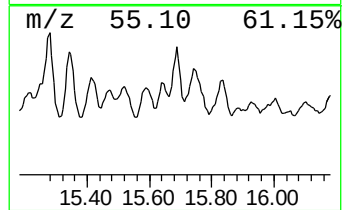
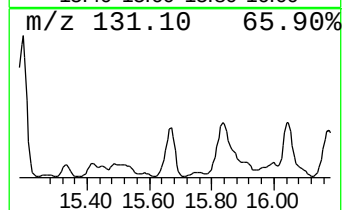
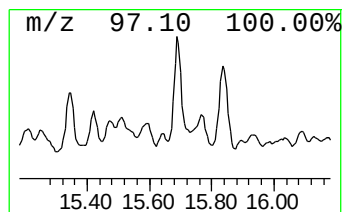
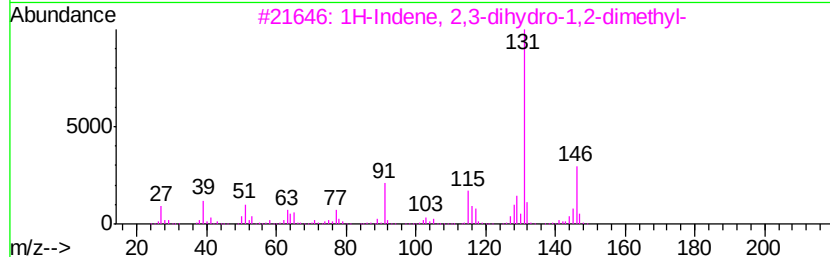
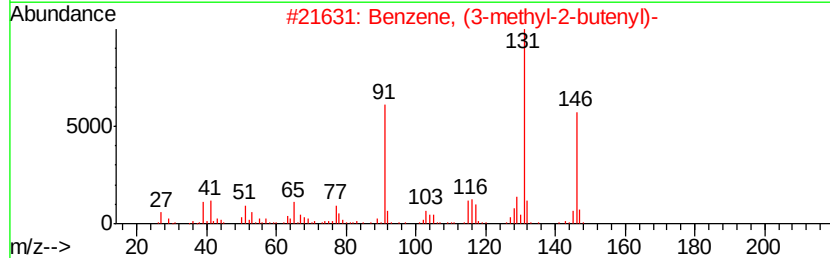
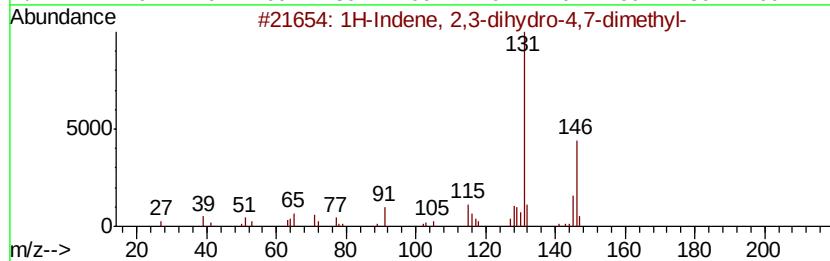
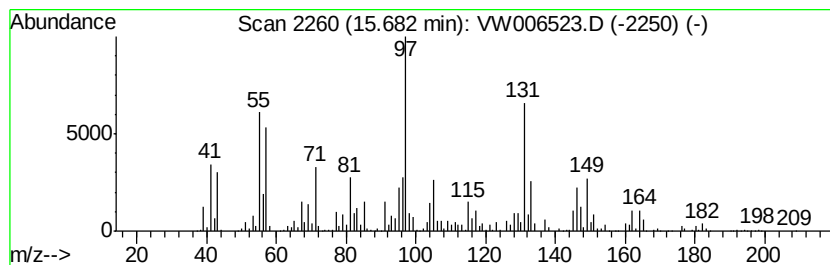
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 5

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 15.68   | 86.94 ug/l                          | 2810750      | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 C11H14   | 006682-71-9            | 80        |
| 2       | Benzene, (3-methyl-2-butenyl)-      | 146 C11H14   | 004489-84-3            | 74        |
| 3       | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 C11H14   | 017057-82-8            | 55        |
| 4       | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14   | 001559-81-5            | 55        |
| 5       | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 C11H14   | 017059-48-2            | 42        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260

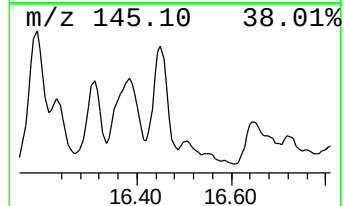
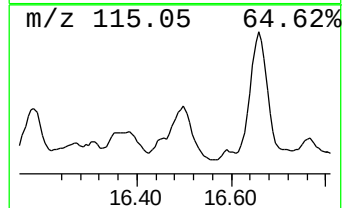
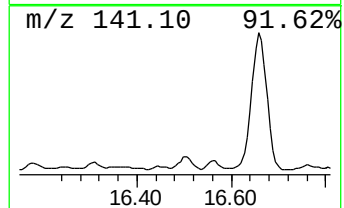
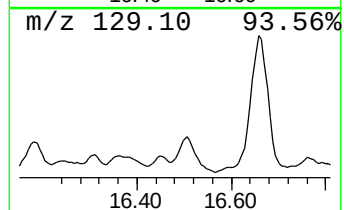
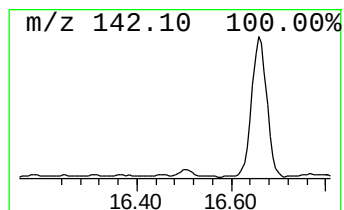
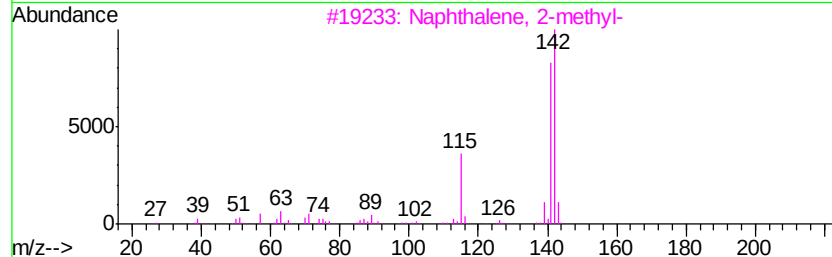
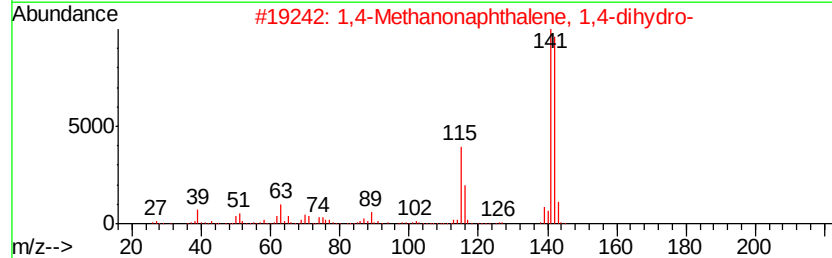
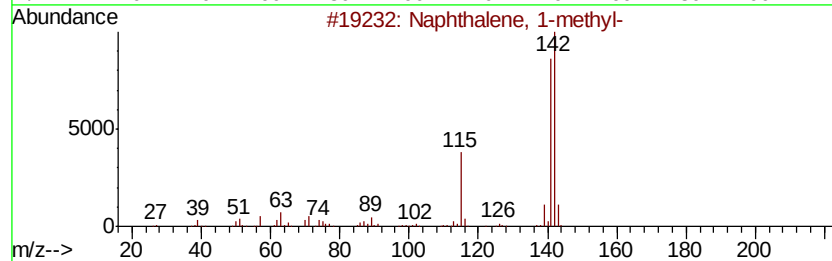
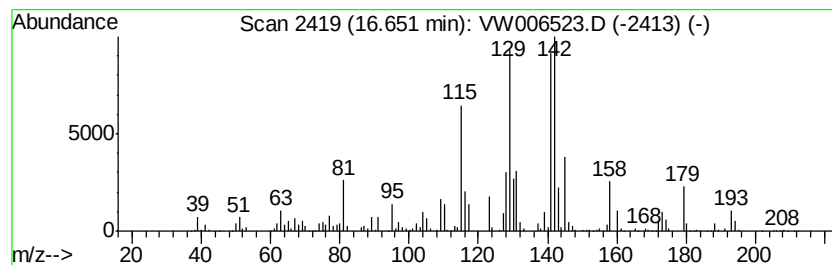
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 unknown16.65 Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.65 | 133.53 ug/l | 4316850 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 46   |
| 2    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 46   |
| 3    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 46   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 41   |
| 5    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 30   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110118\  
Data File : VW006523.D  
Acq On : 31 Oct 2018 14:01  
Operator : SY/AP  
Sample : J5711-01  
Misc : 5.84G/5ML/MSVOA\_W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.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 | 91.9    | ug/l  | 2972350  | 4                     | 13.57 | 1616450 | 50.0 |
| unknown14.40         | 14.40 | 78.2    | ug/l  | 2529180  | 4                     | 13.57 | 1616450 | 50.0 |
| trans-Decalin, 2-... | 14.56 | 82.6    | ug/l  | 2669740  | 4                     | 13.57 | 1616450 | 50.0 |
| Benzene, 2-etheny... | 14.81 | 111.4   | ug/l  | 3601680  | 4                     | 13.57 | 1616450 | 50.0 |
| Undecane, 2,6-dim... | 14.85 | 125.8   | ug/l  | 4067600  | 4                     | 13.57 | 1616450 | 50.0 |
| Bicyclo[4.2.0]oct... | 15.19 | 72.3    | ug/l  | 2339090  | 4                     | 13.57 | 1616450 | 50.0 |
| Naphthalene, 1,2,... | 15.28 | 59.8    | ug/l  | 1934680  | 4                     | 13.57 | 1616450 | 50.0 |
| Octane, 2,6-dimet... | 15.34 | 81.3    | ug/l  | 2628490  | 4                     | 13.57 | 1616450 | 50.0 |
| 1H-Indene, 2,3-di... | 15.68 | 86.9    | ug/l  | 2810750  | 4                     | 13.57 | 1616450 | 50.0 |
| unknown16.65         | 16.65 | 133.5   | ug/l  | 4316850  | 4                     | 13.57 | 1616450 | 50.0 |