

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
 Data File : VW010556.D  
 Acq On : 24 May 2019 17:49  
 Operator : SY/VA  
 Sample : K3052-02  
 Misc : 4.96G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-SF-03-007-A

## 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\82W052019S.M  
 Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.654    | 113        | 123      | 132       | rVB6  | 10054       | 32308      | 4.69%        | 0.598%     |
| 2      | 4.123    | 352        | 364      | 373       | rBV   | 12945       | 35133      | 5.10%        | 0.651%     |
| 3      | 5.934    | 649        | 661      | 673       | rBV3  | 3355        | 10507      | 1.53%        | 0.195%     |
| 4      | 7.135    | 850        | 858      | 871       | rBV2  | 13433       | 38745      | 5.63%        | 0.717%     |
| 5      | 7.884    | 971        | 981      | 986       | rBV   | 71163       | 174996     | 25.42%       | 3.240%     |
| 6      | 7.945    | 986        | 991      | 1002      | rVB   | 161522      | 349361     | 50.74%       | 6.469%     |
| 7      | 8.305    | 1041       | 1050     | 1062      | rBV   | 88579       | 190230     | 27.63%       | 3.522%     |
| 8      | 8.841    | 1128       | 1138     | 1148      | rBV   | 241399      | 476763     | 69.25%       | 8.828%     |
| 9      | 9.329    | 1208       | 1218     | 1224      | rBV2  | 7412        | 16758      | 2.43%        | 0.310%     |
| 10     | 9.957    | 1315       | 1321     | 1324      | rBV2  | 4068        | 7321       | 1.06%        | 0.136%     |
| 11     | 10.097   | 1335       | 1344     | 1356      | rVB3  | 6431        | 15455      | 2.24%        | 0.286%     |
| 12     | 10.323   | 1373       | 1381     | 1390      | rBV   | 381767      | 688492     | 100.00%      | 12.748%    |
| 13     | 10.506   | 1404       | 1411     | 1418      | rVB3  | 14948       | 29598      | 4.30%        | 0.548%     |
| 14     | 10.664   | 1431       | 1437     | 1441      | rBV   | 11350       | 19697      | 2.86%        | 0.365%     |
| 15     | 10.707   | 1441       | 1444     | 1448      | rVV2  | 4912        | 7613       | 1.11%        | 0.141%     |
| 16     | 10.762   | 1448       | 1453     | 1459      | rVV2  | 11613       | 21761      | 3.16%        | 0.403%     |
| 17     | 10.847   | 1462       | 1467     | 1474      | rVB4  | 5047        | 10030      | 1.46%        | 0.186%     |
| 18     | 10.939   | 1474       | 1482     | 1487      | rVB2  | 5122        | 8866       | 1.29%        | 0.164%     |
| 19     | 11.109   | 1505       | 1510     | 1513      | rBV2  | 7947        | 14392      | 2.09%        | 0.266%     |
| 20     | 11.176   | 1517       | 1521     | 1525      | rVV   | 20194       | 34484      | 5.01%        | 0.639%     |
| 21     | 11.231   | 1525       | 1530     | 1535      | rVB   | 16697       | 27859      | 4.05%        | 0.516%     |
| 22     | 11.335   | 1543       | 1547     | 1552      | rBV4  | 5779        | 9508       | 1.38%        | 0.176%     |
| 23     | 11.432   | 1552       | 1563     | 1571      | rVB5  | 15728       | 46649      | 6.78%        | 0.864%     |
| 24     | 11.512   | 1571       | 1576     | 1581      | rBV   | 9430        | 14769      | 2.15%        | 0.273%     |
| 25     | 11.634   | 1589       | 1596     | 1607      | rBV   | 277979      | 482244     | 70.04%       | 8.929%     |
| 26     | 11.725   | 1607       | 1611     | 1614      | rVV4  | 4274        | 7659       | 1.11%        | 0.142%     |
| 27     | 11.768   | 1614       | 1618     | 1621      | rVV2  | 9791        | 16907      | 2.46%        | 0.313%     |
| 28     | 11.817   | 1621       | 1626     | 1627      | rVV4  | 10133       | 17580      | 2.55%        | 0.326%     |
| 29     | 11.847   | 1628       | 1631     | 1632      | rVV   | 14492       | 19029      | 2.76%        | 0.352%     |
| 30     | 11.871   | 1632       | 1635     | 1639      | rVV   | 18385       | 32835      | 4.77%        | 0.608%     |
| 31     | 11.914   | 1640       | 1642     | 1648      | rVB3  | 9037        | 13617      | 1.98%        | 0.252%     |
| 32     | 12.140   | 1670       | 1679     | 1691      | rBV3  | 16265       | 49659      | 7.21%        | 0.919%     |
| 33     | 12.256   | 1691       | 1698     | 1701      | rVB2  | 5578        | 11266      | 1.64%        | 0.209%     |
| 34     | 12.347   | 1708       | 1713     | 1715      | rVV2  | 7589        | 14827      | 2.15%        | 0.275%     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
 Data File : VW010556.D  
 Acq On : 24 May 2019 17:49  
 Operator : SY/VA  
 Sample : K3052-02  
 Misc : 4.96G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-SF-03-007-A

## 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\82W052019S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 12.384 | 1716 | 1719 | 1727 | rVB3 | 8960   | 17977  | 2.61%  | 0.333% |
| 36 | 12.475 | 1728 | 1734 | 1740 | rBV  | 14513  | 27106  | 3.94%  | 0.502% |
| 37 | 12.621 | 1752 | 1758 | 1766 | rVB  | 201048 | 331391 | 48.13% | 6.136% |
| 38 | 12.707 | 1766 | 1772 | 1776 | rBV6 | 4518   | 8930   | 1.30%  | 0.165% |
| 39 | 12.780 | 1780 | 1784 | 1791 | rVB6 | 9684   | 18846  | 2.74%  | 0.349% |
| 40 | 12.865 | 1791 | 1798 | 1801 | rBV4 | 6477   | 15179  | 2.20%  | 0.281% |
| 41 | 12.944 | 1801 | 1811 | 1816 | rVV2 | 69820  | 136415 | 19.81% | 2.526% |
| 42 | 13.109 | 1829 | 1838 | 1844 | rBV2 | 11313  | 27010  | 3.92%  | 0.500% |
| 43 | 13.170 | 1844 | 1848 | 1855 | rVB4 | 9009   | 17197  | 2.50%  | 0.318% |
| 44 | 13.292 | 1860 | 1868 | 1871 | rBV8 | 2921   | 7853   | 1.14%  | 0.145% |
| 45 | 13.444 | 1887 | 1893 | 1898 | rBV3 | 24214  | 48235  | 7.01%  | 0.893% |
| 46 | 13.499 | 1898 | 1902 | 1906 | rVV2 | 8814   | 15530  | 2.26%  | 0.288% |
| 47 | 13.560 | 1906 | 1912 | 1921 | rVV2 | 189902 | 373007 | 54.18% | 6.907% |
| 48 | 13.719 | 1930 | 1938 | 1941 | rBV4 | 13293  | 26108  | 3.79%  | 0.483% |
| 49 | 13.749 | 1941 | 1943 | 1946 | rVV  | 19173  | 26543  | 3.86%  | 0.491% |
| 50 | 13.792 | 1946 | 1950 | 1959 | rVB2 | 44786  | 76106  | 11.05% | 1.409% |
| 51 | 13.877 | 1959 | 1964 | 1969 | rBV3 | 37516  | 62779  | 9.12%  | 1.162% |
| 52 | 13.950 | 1973 | 1976 | 1980 | rVV  | 8522   | 12764  | 1.85%  | 0.236% |
| 53 | 14.017 | 1983 | 1987 | 1988 | rVV  | 6581   | 7940   | 1.15%  | 0.147% |
| 54 | 14.042 | 1988 | 1991 | 1994 | rVV2 | 11299  | 17710  | 2.57%  | 0.328% |
| 55 | 14.097 | 1994 | 2000 | 2006 | rVB2 | 35890  | 64289  | 9.34%  | 1.190% |
| 56 | 14.206 | 2013 | 2018 | 2023 | rVB2 | 36307  | 60962  | 8.85%  | 1.129% |
| 57 | 14.267 | 2023 | 2028 | 2035 | rVB8 | 6646   | 18180  | 2.64%  | 0.337% |
| 58 | 14.341 | 2035 | 2040 | 2044 | rBV2 | 19590  | 34156  | 4.96%  | 0.632% |
| 59 | 14.389 | 2044 | 2048 | 2050 | rVV2 | 13828  | 22295  | 3.24%  | 0.413% |
| 60 | 14.420 | 2050 | 2053 | 2056 | rVV  | 21727  | 35402  | 5.14%  | 0.655% |
| 61 | 14.462 | 2056 | 2060 | 2064 | rVV  | 35464  | 53599  | 7.78%  | 0.992% |
| 62 | 14.505 | 2064 | 2067 | 2070 | rVV2 | 18755  | 23689  | 3.44%  | 0.439% |
| 63 | 14.548 | 2070 | 2074 | 2081 | rVB5 | 15583  | 26820  | 3.90%  | 0.497% |
| 64 | 14.639 | 2081 | 2089 | 2094 | rVB6 | 13586  | 33292  | 4.84%  | 0.616% |
| 65 | 14.700 | 2094 | 2099 | 2100 | rBV3 | 10931  | 17810  | 2.59%  | 0.330% |
| 66 | 14.731 | 2100 | 2104 | 2109 | rVB4 | 28393  | 47754  | 6.94%  | 0.884% |
| 67 | 14.804 | 2109 | 2116 | 2122 | rBV4 | 53640  | 136223 | 19.79% | 2.522% |
| 68 | 14.865 | 2122 | 2126 | 2132 | rVB2 | 12815  | 22124  | 3.21%  | 0.410% |
| 69 | 14.962 | 2137 | 2142 | 2148 | rVB  | 18886  | 30044  | 4.36%  | 0.556% |
| 70 | 15.072 | 2155 | 2160 | 2163 | rBV4 | 19154  | 32927  | 4.78%  | 0.610% |
| 71 | 15.182 | 2172 | 2178 | 2186 | rVB3 | 26508  | 60670  | 8.81%  | 1.123% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
 Data File : VW010556.D  
 Acq On : 24 May 2019 17:49  
 Operator : SY/VA  
 Sample : K3052-02  
 Misc : 4.96G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-SF-03-007-A

## 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\82W052019S.M  
 Title : SW846 8260

|    |        |      |      |      |       |       |       |       |        |
|----|--------|------|------|------|-------|-------|-------|-------|--------|
| 72 | 15.261 | 2186 | 2191 | 2197 | rVB7  | 6092  | 15976 | 2.32% | 0.296% |
| 73 | 15.328 | 2197 | 2202 | 2207 | rBV7  | 10766 | 22845 | 3.32% | 0.423% |
| 74 | 15.426 | 2213 | 2218 | 2223 | rBV   | 18661 | 36440 | 5.29% | 0.675% |
| 75 | 15.474 | 2223 | 2226 | 2228 | rBV3  | 7190  | 9828  | 1.43% | 0.182% |
| 76 | 15.560 | 2237 | 2240 | 2249 | rVB6  | 16835 | 31015 | 4.50% | 0.574% |
| 77 | 15.663 | 2249 | 2257 | 2264 | rBV3  | 16313 | 38615 | 5.61% | 0.715% |
| 78 | 15.743 | 2264 | 2270 | 2274 | rVV7  | 6090  | 13586 | 1.97% | 0.252% |
| 79 | 15.822 | 2277 | 2283 | 2286 | rVV5  | 12859 | 32302 | 4.69% | 0.598% |
| 80 | 15.871 | 2287 | 2291 | 2300 | rVV3  | 26077 | 52795 | 7.67% | 0.978% |
| 81 | 15.956 | 2300 | 2305 | 2311 | rVV10 | 7097  | 17942 | 2.61% | 0.332% |
| 82 | 16.029 | 2311 | 2317 | 2331 | rVB8  | 11223 | 40205 | 5.84% | 0.744% |
| 83 | 16.182 | 2334 | 2342 | 2353 | rBV4  | 20701 | 54343 | 7.89% | 1.006% |
| 84 | 16.383 | 2366 | 2375 | 2381 | rBV4  | 16922 | 41391 | 6.01% | 0.766% |
| 85 | 16.450 | 2381 | 2386 | 2390 | rVV3  | 6788  | 13828 | 2.01% | 0.256% |
| 86 | 16.499 | 2391 | 2394 | 2399 | rVB7  | 6684  | 11534 | 1.68% | 0.214% |
| 87 | 16.657 | 2411 | 2420 | 2427 | rBV6  | 8688  | 26358 | 3.83% | 0.488% |

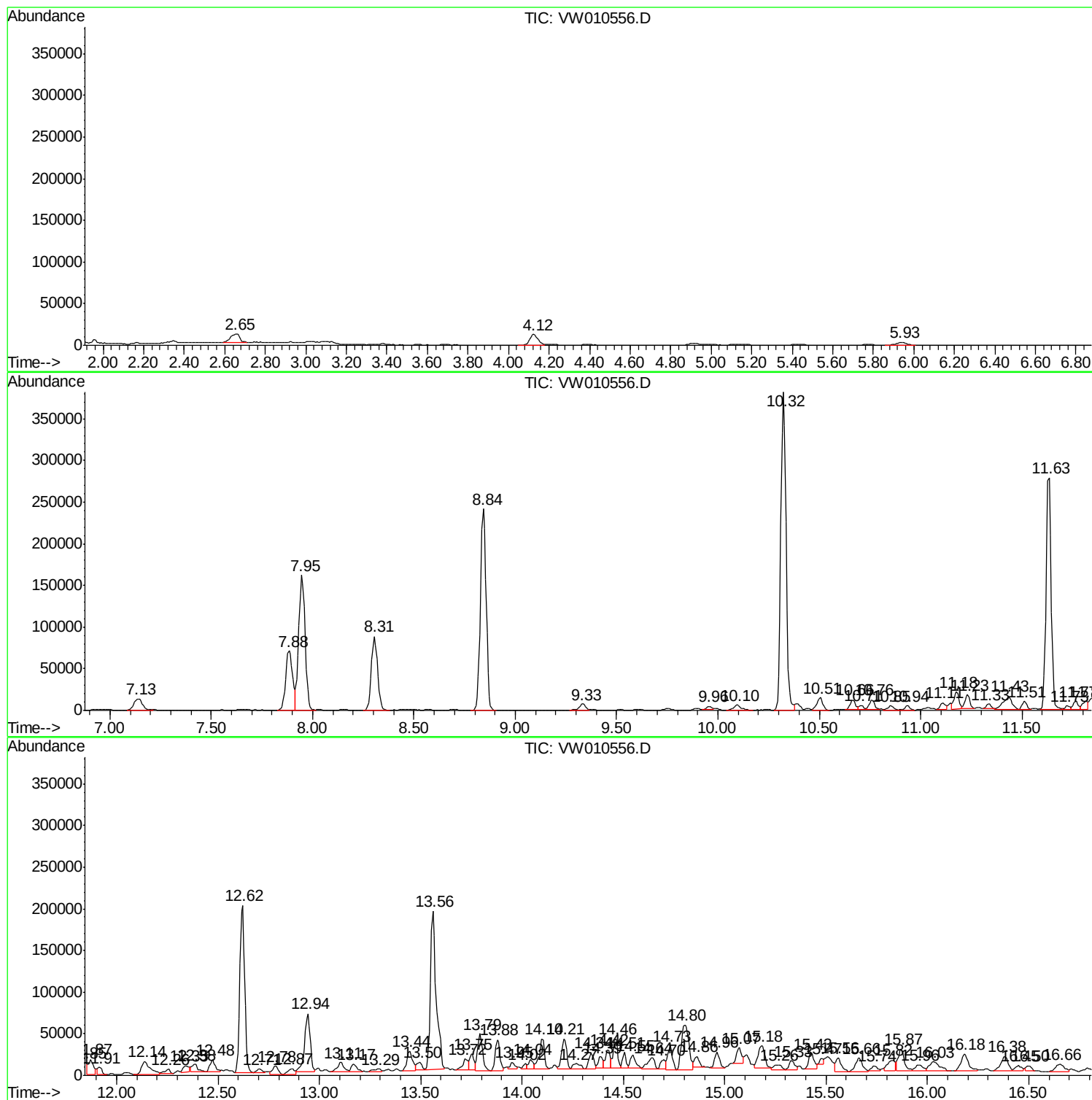
Sum of corrected areas: 5400783

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

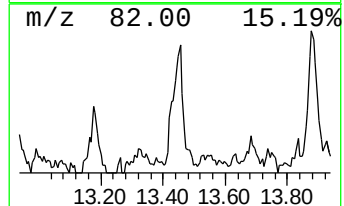
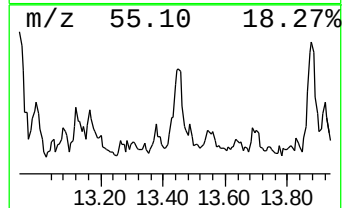
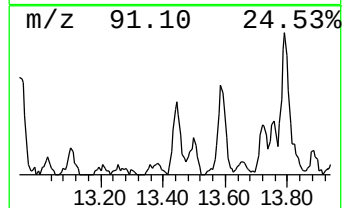
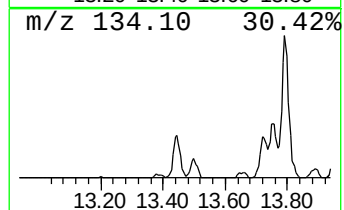
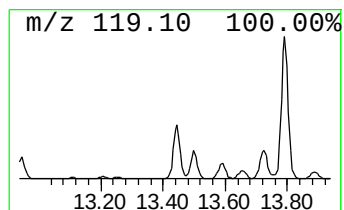
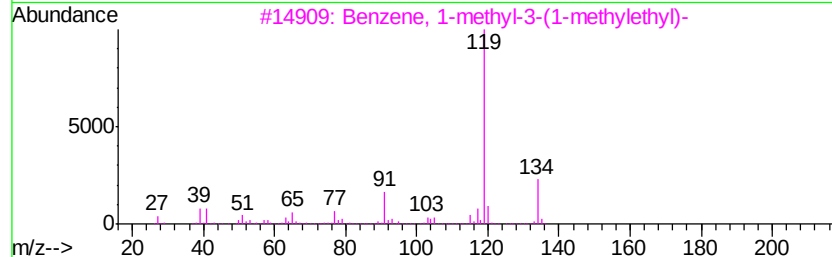
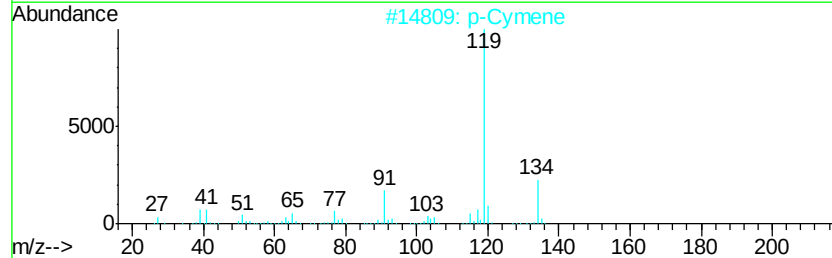
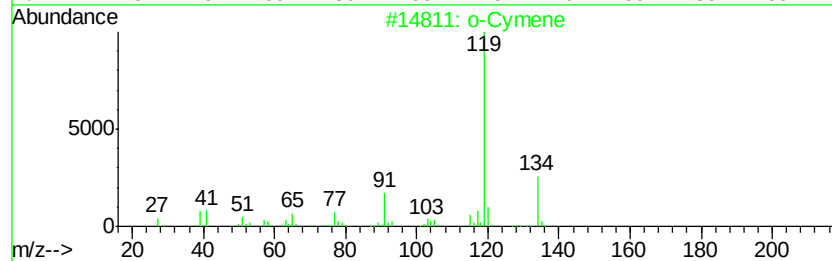
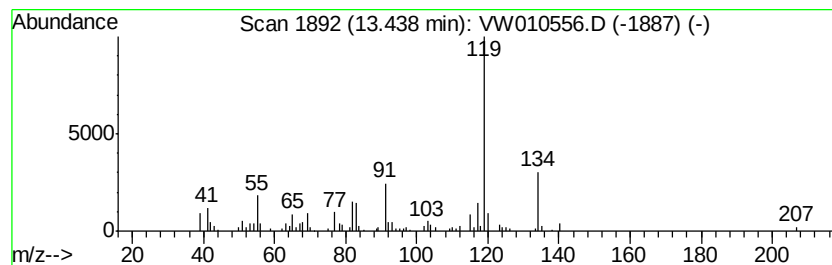
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 o-Cymene Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.44 | 6.47 ug/l | 48235 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 95   |
| 3    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 81   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl-        | 134 | C10H14  | 000488-23-3 | 76   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl-       | 134 | C10H14  | 001758-88-9 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

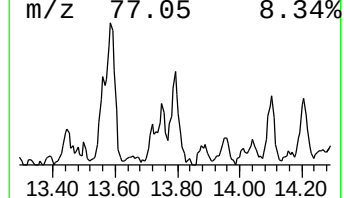
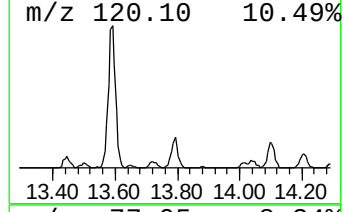
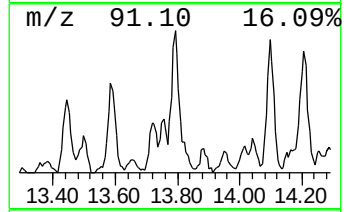
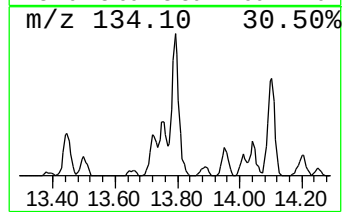
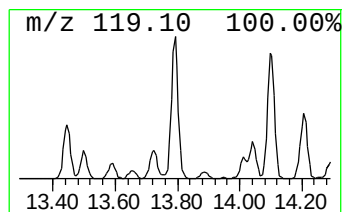
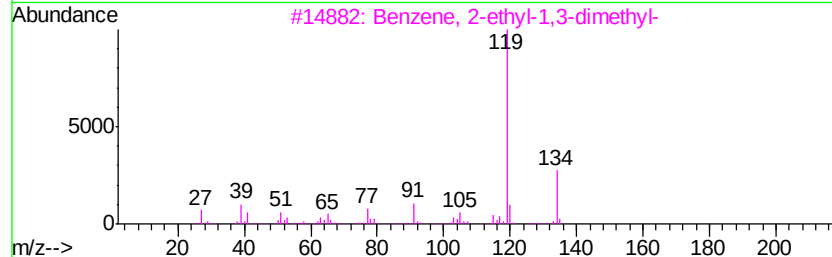
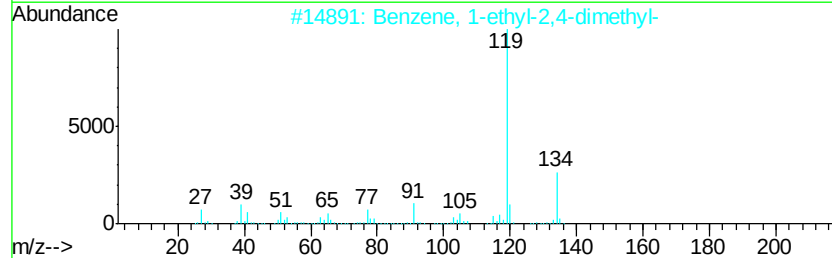
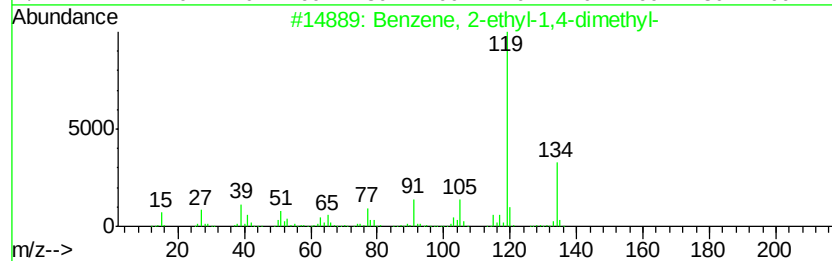
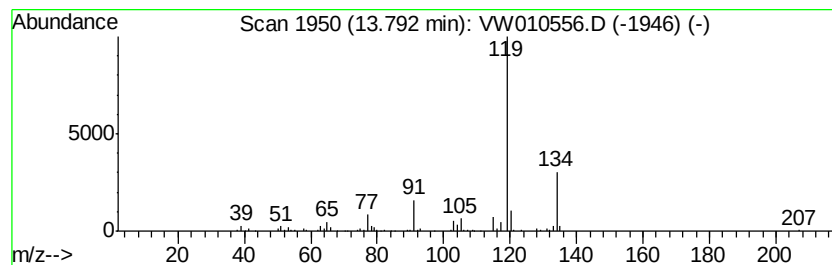
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 2

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 13.79 | 10.20 ug/l | 76106 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 91   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 91   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 91   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

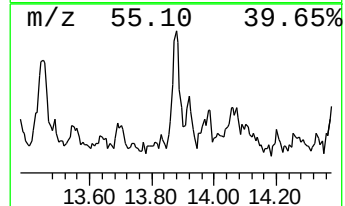
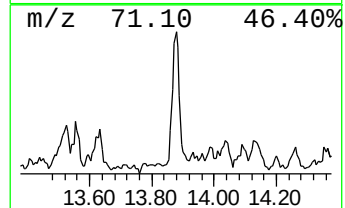
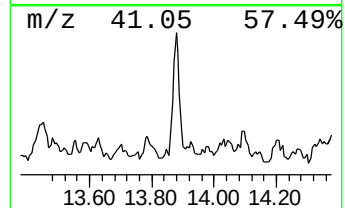
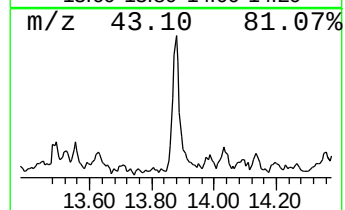
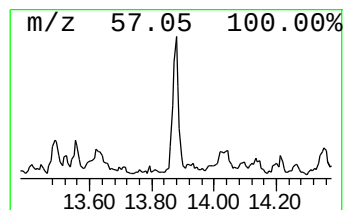
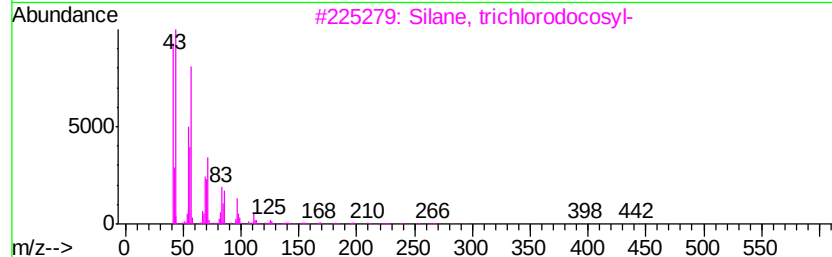
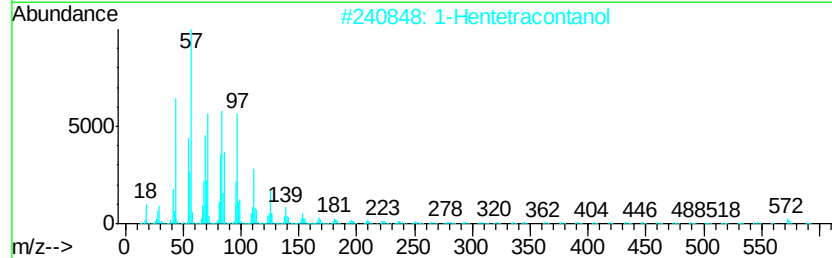
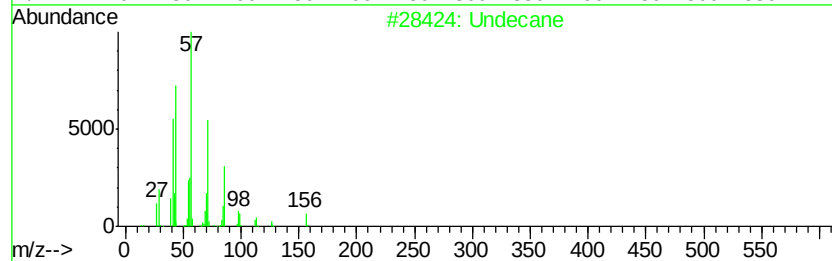
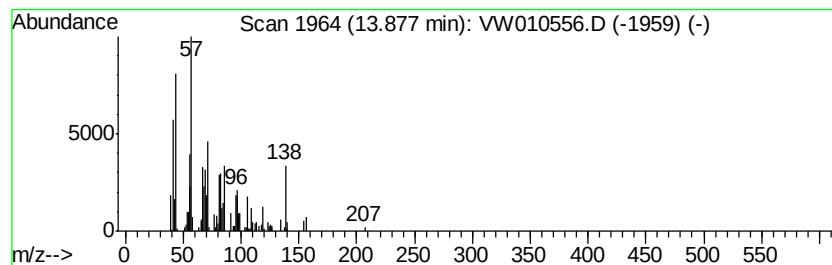
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Undecane Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.88 | 8.42 ug/l | 62779 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm     | CAS#        | Qual |
|---------|---------------------------|--------------|-----|-------------|-------------|------|
| 1       | Undecane                  |              | 156 | C11H24      | 001120-21-4 | 95   |
| 2       | 1-Hentetracontanol        |              | 593 | C41H84O     | 040710-42-7 | 52   |
| 3       | Silane, trichlorodocosyl- |              | 442 | C22H45Cl3Si | 007325-84-0 | 47   |
| 4       | Tridecane                 |              | 184 | C13H28      | 000629-50-5 | 43   |
| 5       | Decane                    |              | 142 | C10H22      | 000124-18-5 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

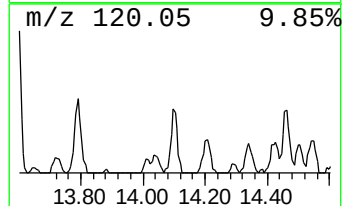
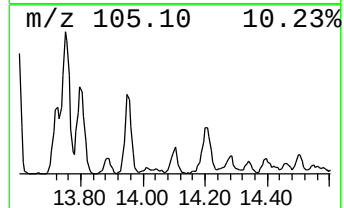
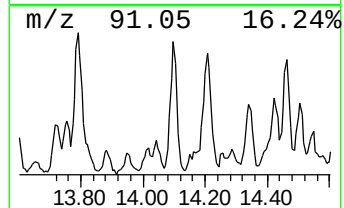
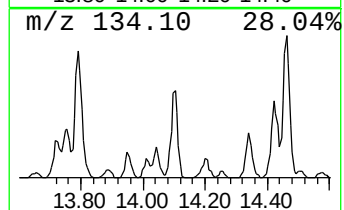
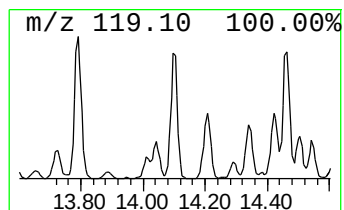
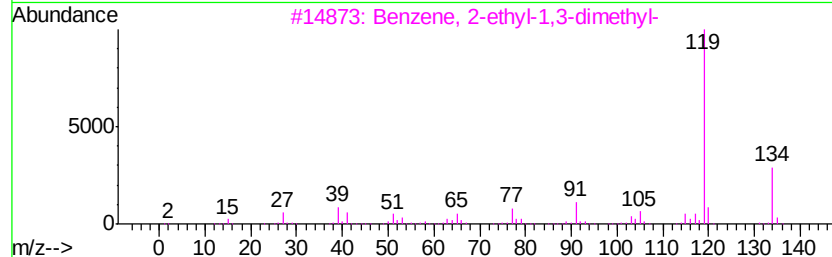
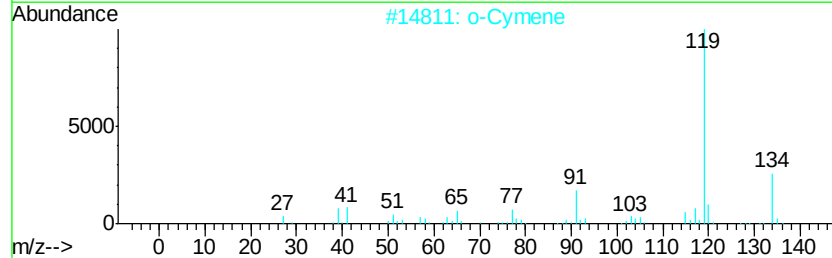
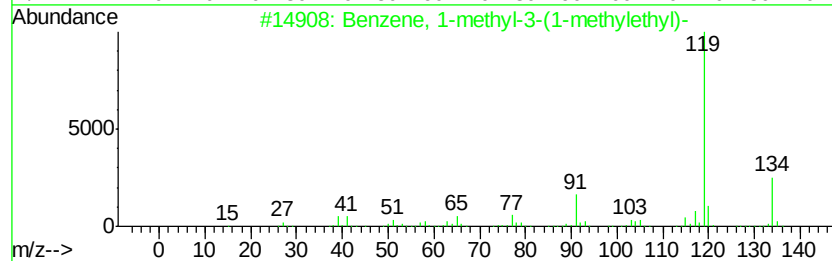
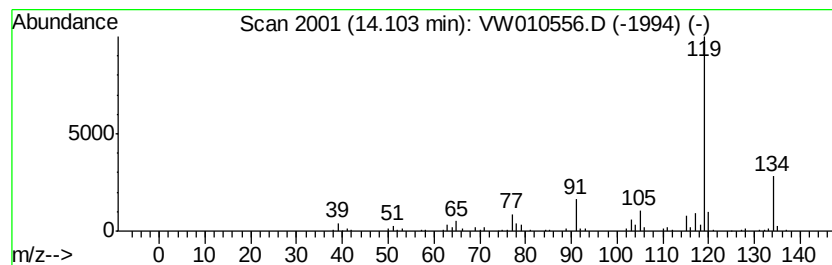
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.10 | 8.62 ug/l | 64289 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 95   |
| 2    |    | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl-       | 134 | C10H14  | 002870-04-4 | 94   |
| 4    |    | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 94   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-        | 134 | C10H14  | 000488-23-3 | 91   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

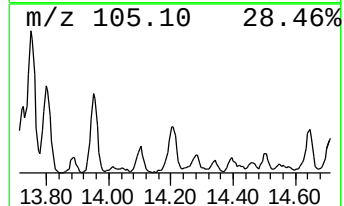
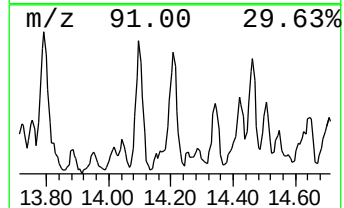
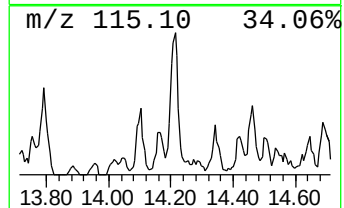
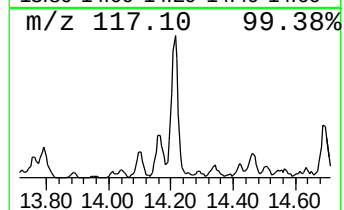
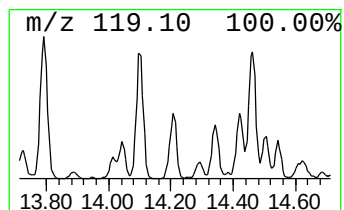
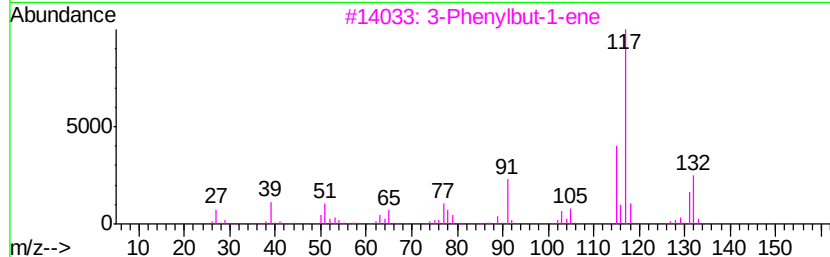
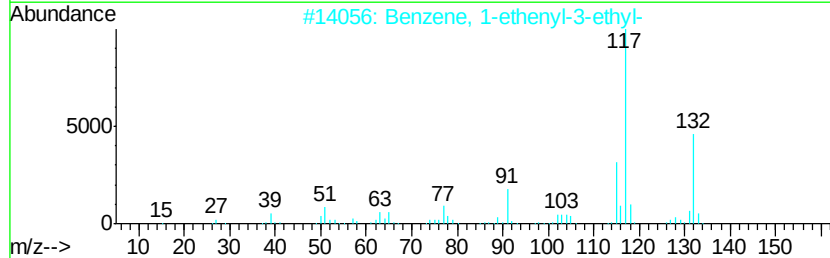
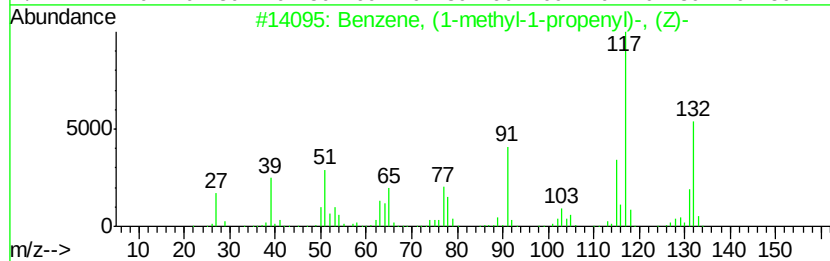
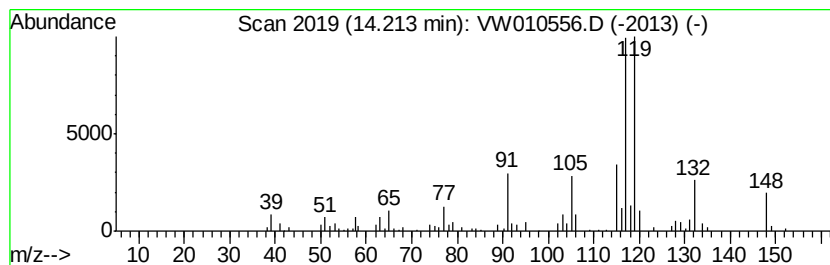
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 unknown14.21 Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.21 | 8.17 ug/l | 60962 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000767-99-7 | 46   |
| 2    |    | Benzene, 1-ethenyl-3-ethyl-         | 132 | C10H12  | 007525-62-4 | 46   |
| 3    |    | 3-Phenylbut-1-ene                   | 132 | C10H12  | 000934-10-1 | 46   |
| 4    |    | 1-Phenyl-1-butene                   | 132 | C10H12  | 000824-90-8 | 41   |
| 5    |    | Benzeneethanol, .beta.-ethenyl-     | 148 | C10H12O | 006052-63-7 | 41   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

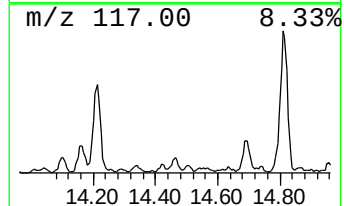
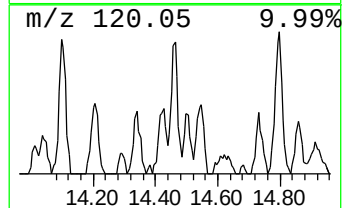
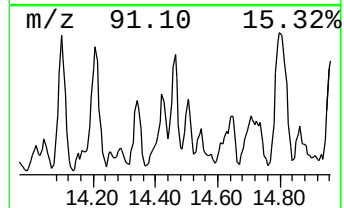
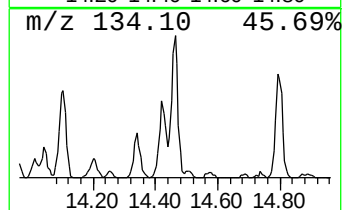
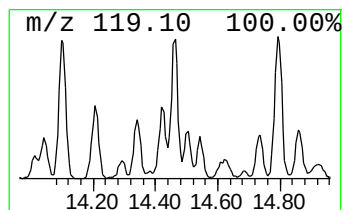
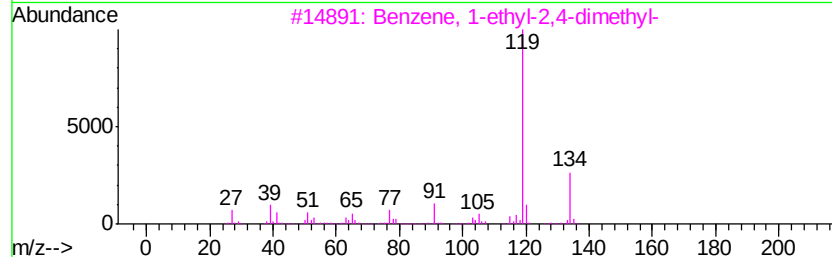
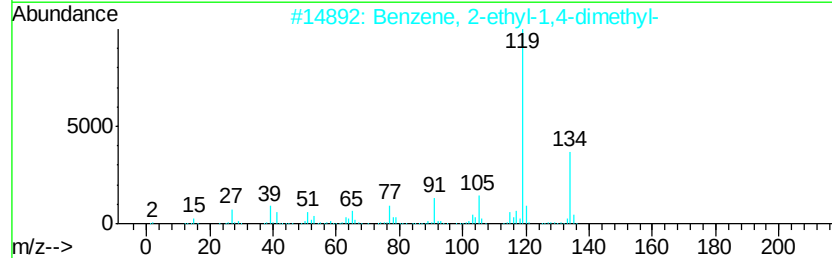
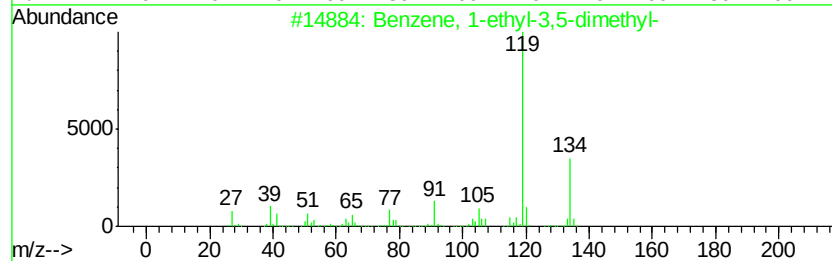
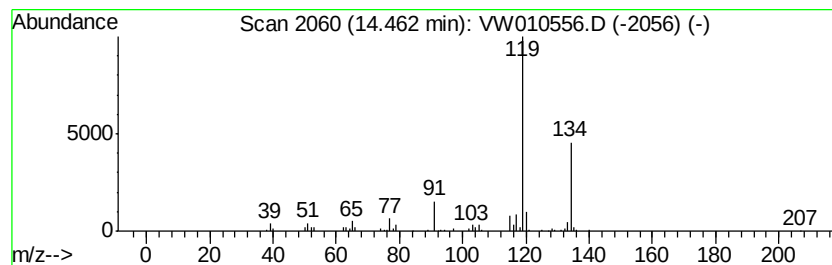
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.46 | 7.18 ug/l | 53599 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 91   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 91   |
| 3    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 91   |
| 4    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

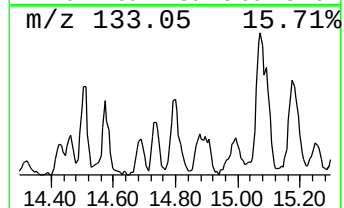
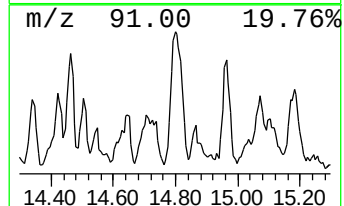
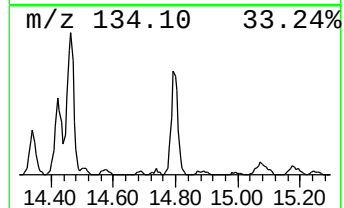
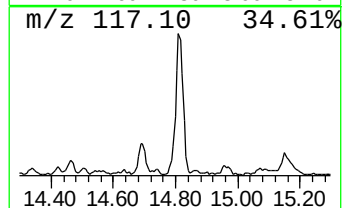
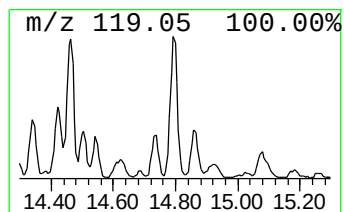
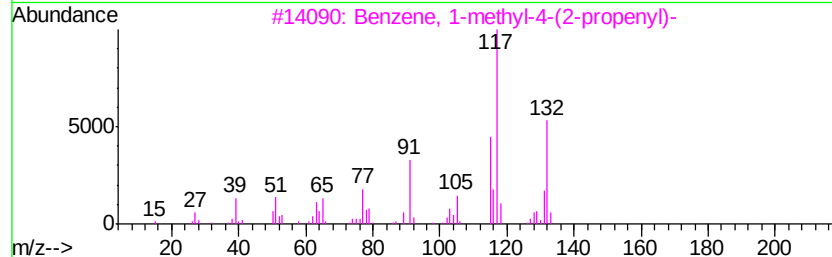
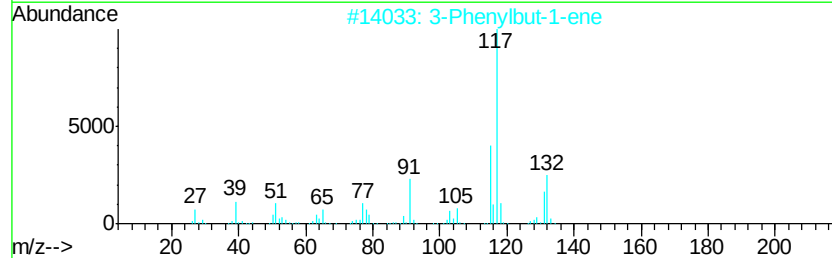
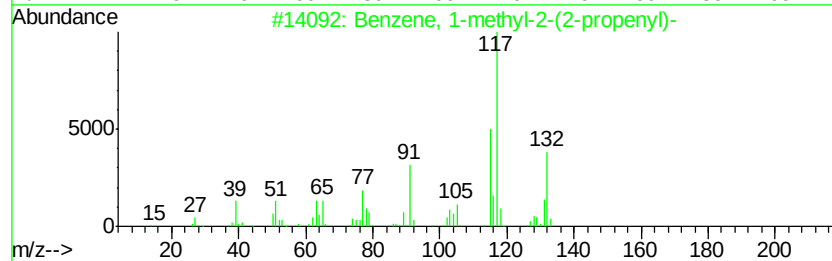
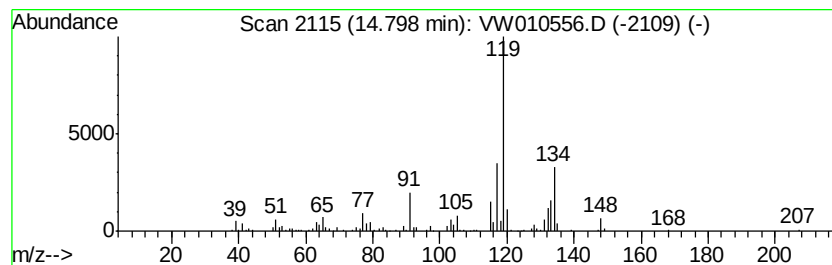
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1-methyl-2-(2-prop... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.80 | 18.26 ug/l | 136223 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 87   |
| 2    |    | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 86   |
| 3    |    | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 70   |
| 4    |    | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 64   |
| 5    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

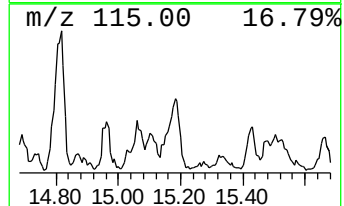
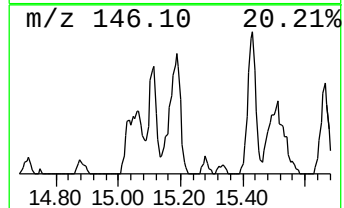
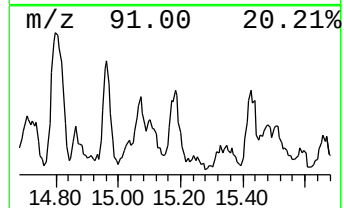
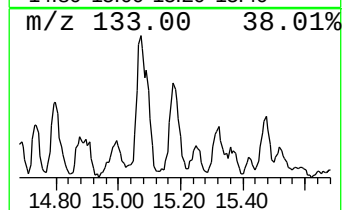
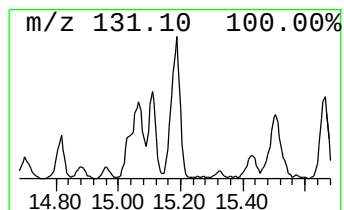
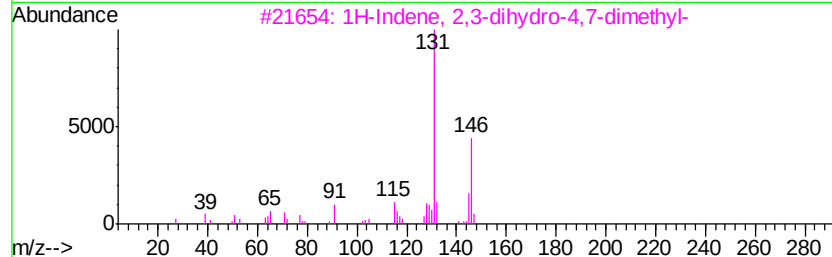
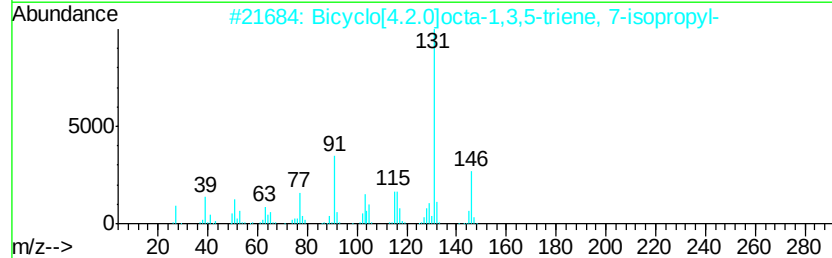
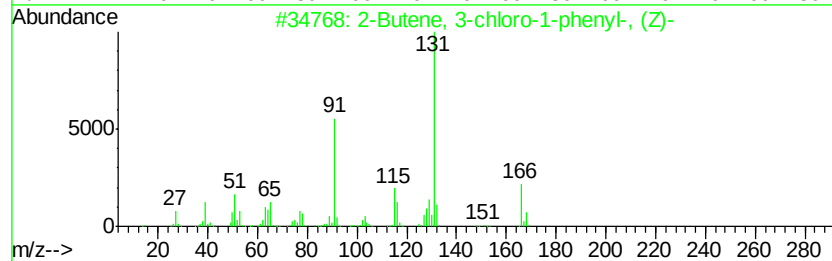
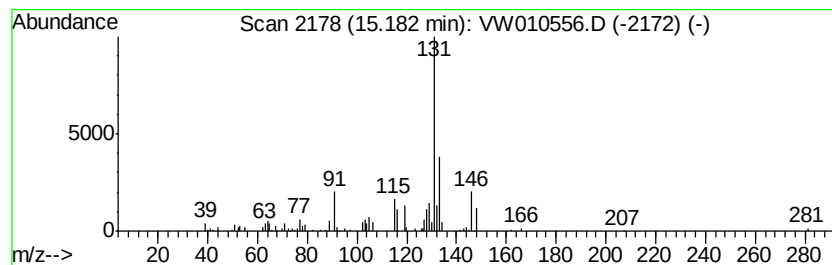
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 2-Butene, 3-chloro-1-phenyl... Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.18 | 8.13 ug/l | 60670 | 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 | 91   |
| 2    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 | C11H14   | 027087-54-3 | 76   |
| 3    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14   | 006682-71-9 | 76   |
| 4    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14   | 020836-11-7 | 76   |
| 5    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14   | 004489-84-3 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

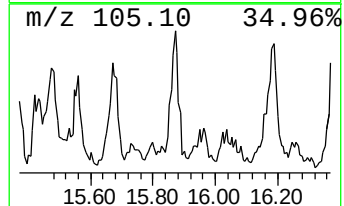
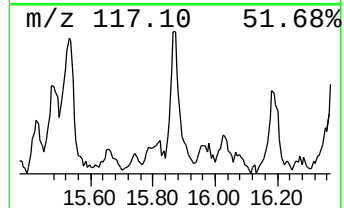
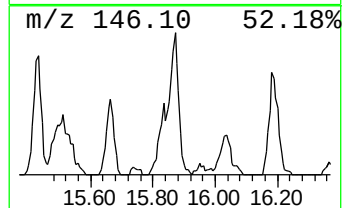
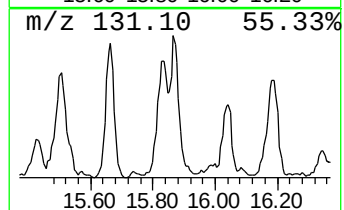
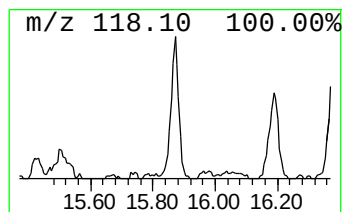
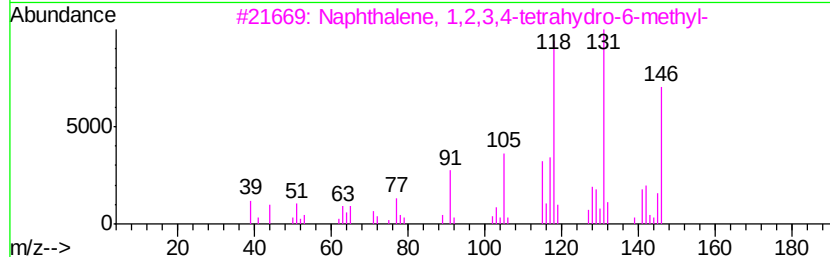
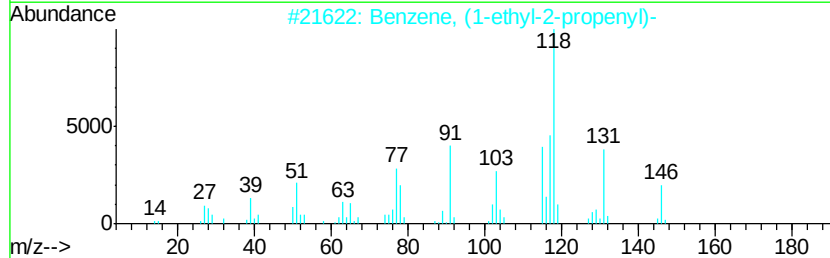
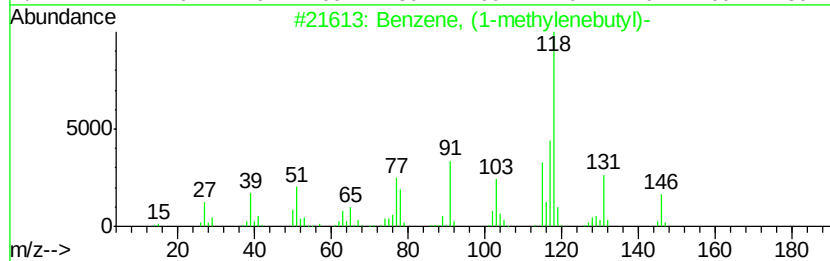
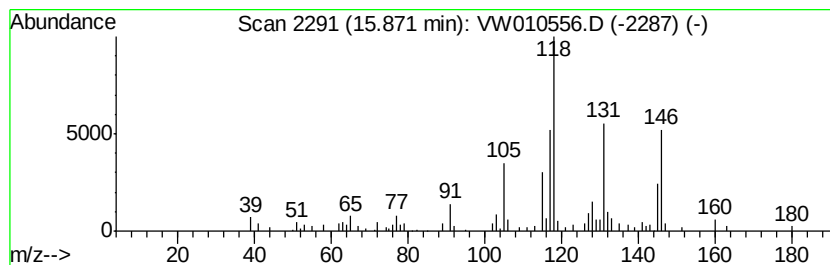
Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 Benzene, (1-methylenebutyl)- Concentration Rank 9

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 15.87   | 7.08 ug/l | 52795                               | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, (1-methylenebutyl)-        | 146 C11H14             | 005676-32-4 72 |
| 2       |           | Benzene, (1-ethyl-2-propenyl)-      | 146 C11H14             | 019947-22-9 64 |
| 3       |           | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 001680-51-9 52 |
| 4       |           | 5H-Benzocycloheptene,6,7,8,9-tet... | 146 C11H14             | 001075-16-7 49 |
| 5       |           | 2-Propyn-1-ol, 3-(4-methylphenyl)-  | 146 C10H10O            | 016017-24-6 43 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260

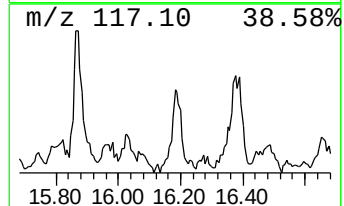
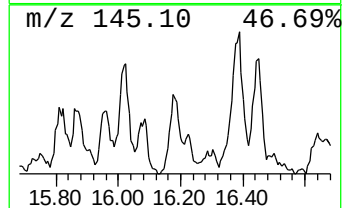
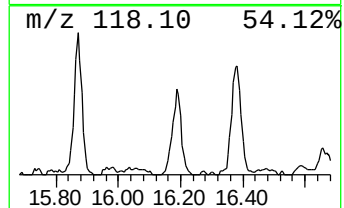
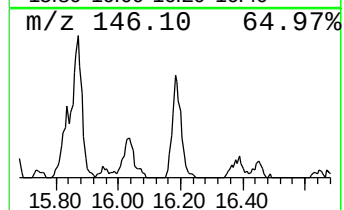
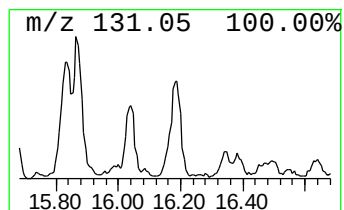
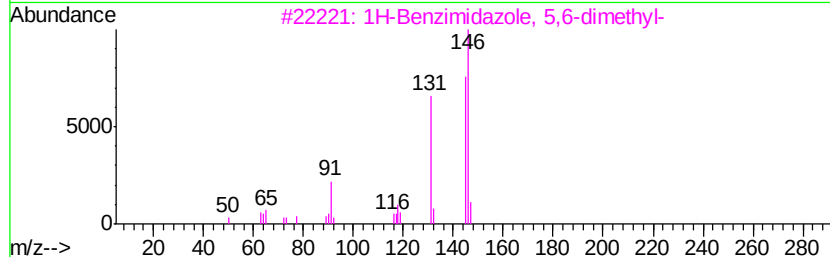
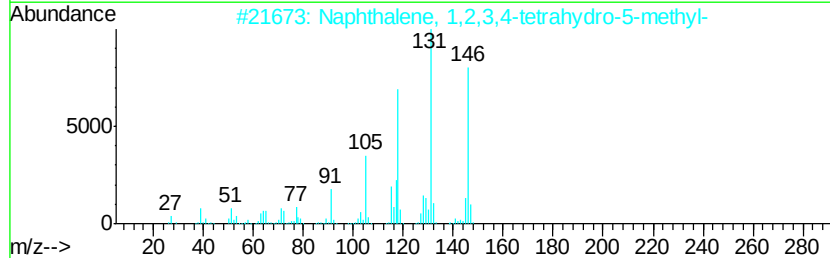
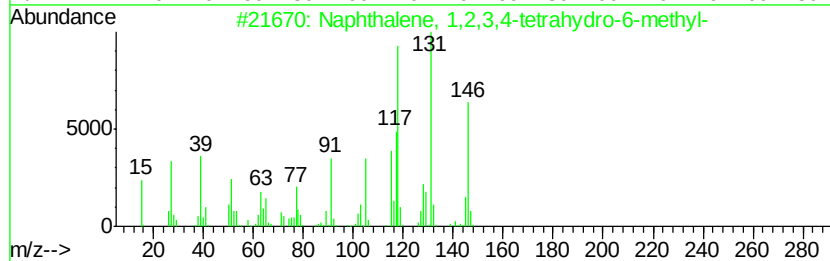
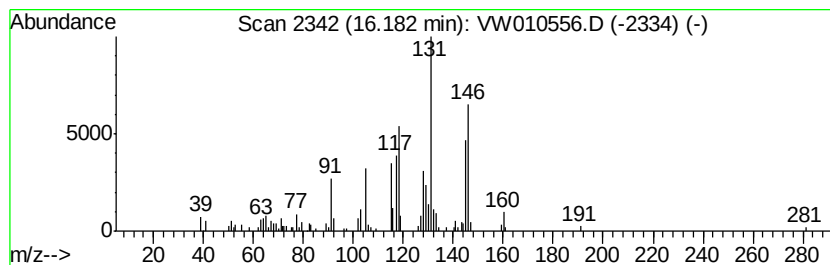
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 16.18 | 7.28 ug/l | 54343 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 78   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 62   |
| 3    |    | 1H-Benzimidazole, 5,6-dimethyl-     | 146 | C9H10N2 | 000582-60-5 | 60   |
| 4    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 53   |
| 5    |    | 2-Propenal, 3-(4-methylphenyl)-     | 146 | C10H10O | 001504-75-2 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW052419\  
Data File : VW010556.D  
Acq On : 24 May 2019 17:49  
Operator : SY/VA  
Sample : K3052-02  
Misc : 4.96G/5ML/MSVOA\_W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-SF-03-007-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.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 |
| o-Cymene             | 13.44 | 6.5     | ug/l  | 48235    | 4                     | 13.56 | 373007 | 50.0 |
| Benzene, 2-ethyl-... | 13.79 | 10.2    | ug/l  | 76106    | 4                     | 13.56 | 373007 | 50.0 |
| Undecane             | 13.88 | 8.4     | ug/l  | 62779    | 4                     | 13.56 | 373007 | 50.0 |
| Benzene, 1-methyl... | 14.10 | 8.6     | ug/l  | 64289    | 4                     | 13.56 | 373007 | 50.0 |
| unknown14.21         | 14.21 | 8.2     | ug/l  | 60962    | 4                     | 13.56 | 373007 | 50.0 |
| Benzene, 1-ethyl-... | 14.46 | 7.2     | ug/l  | 53599    | 4                     | 13.56 | 373007 | 50.0 |
| Benzene, 1-methyl... | 14.80 | 18.3    | ug/l  | 136223   | 4                     | 13.56 | 373007 | 50.0 |
| 2-Butene, 3-chlor... | 15.18 | 8.1     | ug/l  | 60670    | 4                     | 13.56 | 373007 | 50.0 |
| Benzene, (1-methy... | 15.87 | 7.1     | ug/l  | 52795    | 4                     | 13.56 | 373007 | 50.0 |
| Naphthalene, 1,2,... | 16.18 | 7.3     | ug/l  | 54343    | 4                     | 13.56 | 373007 | 50.0 |