

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
 Data File : VW008048.D  
 Acq On : 04 Jan 2019 15:29  
 Operator : SY/AP  
 Sample : K1044-04  
 Misc : 5.07G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CPSB-11(20-25)

## 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\82W010219S.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         | 4.379       | 397           | 406         | 414          | rBV      | 2665           | 7638          | 2.66%           | 0.185%        |
| 2         | 4.909       | 486           | 493         | 494          | rBV3     | 2074           | 3819          | 1.33%           | 0.093%        |
| 3         | 7.135       | 851           | 858         | 868          | rBV2     | 2285           | 5917          | 2.06%           | 0.144%        |
| 4         | 7.885       | 973           | 981         | 986          | rBV2     | 37503          | 88003         | 30.62%          | 2.137%        |
| 5         | 7.946       | 986           | 991         | 1000         | rVV      | 75030          | 166272        | 57.85%          | 4.037%        |
| 6         | 8.311       | 1038          | 1051        | 1060         | rVB      | 33943          | 81002         | 28.18%          | 1.967%        |
| 7         | 8.482       | 1072          | 1079        | 1088         | rVB4     | 1844           | 5499          | 1.91%           | 0.134%        |
| 8         | 8.842       | 1130          | 1138        | 1149         | rBV      | 107063         | 206460        | 71.83%          | 5.013%        |
| 9         | 9.329       | 1207          | 1218        | 1224         | rBV6     | 3706           | 10244         | 3.56%           | 0.249%        |
| 10        | 9.762       | 1277          | 1289        | 1297         | rBV4     | 3594           | 9036          | 3.14%           | 0.219%        |
| 11        | 9.890       | 1301          | 1310        | 1316         | rBV4     | 5488           | 11753         | 4.09%           | 0.285%        |
| 12        | 10.079      | 1335          | 1341        | 1347         | rBV5     | 1833           | 4578          | 1.59%           | 0.111%        |
| 13        | 10.323      | 1374          | 1381        | 1390         | rBV      | 156809         | 287442        | 100.00%         | 6.979%        |
| 14        | 10.506      | 1406          | 1411        | 1419         | rVB9     | 3323           | 7112          | 2.47%           | 0.173%        |
| 15        | 10.665      | 1432          | 1437        | 1441         | rBV5     | 1890           | 3442          | 1.20%           | 0.084%        |
| 16        | 10.762      | 1449          | 1453        | 1459         | rVB9     | 2307           | 4700          | 1.64%           | 0.114%        |
| 17        | 11.073      | 1495          | 1504        | 1509         | rBV4     | 9362           | 19234         | 6.69%           | 0.467%        |
| 18        | 11.177      | 1516          | 1521        | 1525         | rBV6     | 2828           | 4448          | 1.55%           | 0.108%        |
| 19        | 11.238      | 1527          | 1531        | 1534         | rVB5     | 4408           | 6540          | 2.28%           | 0.159%        |
| 20        | 11.439      | 1558          | 1564        | 1569         | rVB7     | 3725           | 6625          | 2.30%           | 0.161%        |
| 21        | 11.518      | 1571          | 1577        | 1579         | rBV4     | 5176           | 10033         | 3.49%           | 0.244%        |
| 22        | 11.634      | 1590          | 1596        | 1611         | rVB      | 131246         | 235980        | 82.10%          | 5.730%        |
| 23        | 11.847      | 1623          | 1631        | 1634         | rBV4     | 10043          | 21498         | 7.48%           | 0.522%        |
| 24        | 12.140      | 1676          | 1679        | 1681         | rBV4     | 4053           | 5615          | 1.95%           | 0.136%        |
| 25        | 12.256      | 1694          | 1698        | 1702         | rVB3     | 4913           | 7412          | 2.58%           | 0.180%        |
| 26        | 12.347      | 1708          | 1713        | 1714         | rVV3     | 5551           | 8307          | 2.89%           | 0.202%        |
| 27        | 12.365      | 1714          | 1716        | 1724         | rVB6     | 7397           | 13167         | 4.58%           | 0.320%        |
| 28        | 12.475      | 1727          | 1734        | 1742         | rBV      | 81664          | 143779        | 50.02%          | 3.491%        |
| 29        | 12.622      | 1752          | 1758        | 1766         | rBV      | 115643         | 195053        | 67.86%          | 4.736%        |
| 30        | 12.719      | 1768          | 1774        | 1782         | rVB4     | 20903          | 49152         | 17.10%          | 1.193%        |
| 31        | 12.786      | 1782          | 1785        | 1793         | rVB7     | 5350           | 11402         | 3.97%           | 0.277%        |
| 32        | 12.871      | 1793          | 1799        | 1801         | rBV4     | 14795          | 24631         | 8.57%           | 0.598%        |
| 33        | 12.926      | 1801          | 1808        | 1818         | rVB4     | 87343          | 201467        | 70.09%          | 4.892%        |
| 34        | 13.048      | 1823          | 1828        | 1835         | rBV      | 59723          | 109527        | 38.10%          | 2.659%        |

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 ClientSampleId :  
 CPSB-11(20-25)

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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\82W010219S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.170 | 1844 | 1848 | 1854 | rVB3 | 11858  | 18451  | 6.42%  | 0.448% |
| 36 | 13.256 | 1856 | 1862 | 1867 | rBV  | 28689  | 45867  | 15.96% | 1.114% |
| 37 | 13.353 | 1874 | 1878 | 1880 | rBV4 | 4586   | 8130   | 2.83%  | 0.197% |
| 38 | 13.451 | 1889 | 1894 | 1898 | rBV4 | 16566  | 39669  | 13.80% | 0.963% |
| 39 | 13.560 | 1907 | 1912 | 1920 | rVB2 | 133780 | 226355 | 78.75% | 5.496% |
| 40 | 13.627 | 1920 | 1923 | 1927 | rVB3 | 10360  | 14402  | 5.01%  | 0.350% |
| 41 | 13.755 | 1940 | 1944 | 1947 | rBV2 | 18626  | 27772  | 9.66%  | 0.674% |
| 42 | 13.798 | 1947 | 1951 | 1960 | rVB3 | 24181  | 56088  | 19.51% | 1.362% |
| 43 | 13.877 | 1960 | 1964 | 1969 | rBV2 | 72426  | 109354 | 38.04% | 2.655% |
| 44 | 13.920 | 1969 | 1971 | 1974 | rBV3 | 3557   | 4363   | 1.52%  | 0.106% |
| 45 | 13.957 | 1974 | 1977 | 1980 | rBV  | 6759   | 8111   | 2.82%  | 0.197% |
| 46 | 14.018 | 1984 | 1987 | 1989 | rBV  | 9217   | 11638  | 4.05%  | 0.283% |
| 47 | 14.097 | 1997 | 2000 | 2006 | rVB2 | 23958  | 33774  | 11.75% | 0.820% |
| 48 | 14.213 | 2013 | 2019 | 2024 | rBV2 | 24985  | 41234  | 14.35% | 1.001% |
| 49 | 14.268 | 2024 | 2028 | 2031 | rBV5 | 7390   | 13311  | 4.63%  | 0.323% |
| 50 | 14.347 | 2035 | 2041 | 2043 | rBV4 | 14007  | 28091  | 9.77%  | 0.682% |
| 51 | 14.396 | 2045 | 2049 | 2052 | rVV5 | 22001  | 33194  | 11.55% | 0.806% |
| 52 | 14.432 | 2052 | 2055 | 2058 | rVV4 | 12213  | 14695  | 5.11%  | 0.357% |
| 53 | 14.505 | 2063 | 2067 | 2071 | rBV3 | 23456  | 31675  | 11.02% | 0.769% |
| 54 | 14.554 | 2071 | 2075 | 2079 | rVB4 | 18244  | 28606  | 9.95%  | 0.695% |
| 55 | 14.609 | 2081 | 2084 | 2087 | rVV4 | 6892   | 9504   | 3.31%  | 0.231% |
| 56 | 14.646 | 2088 | 2090 | 2094 | rVV2 | 9376   | 11918  | 4.15%  | 0.289% |
| 57 | 14.700 | 2094 | 2099 | 2100 | rVV2 | 23384  | 36675  | 12.76% | 0.891% |
| 58 | 14.731 | 2100 | 2104 | 2110 | rVB3 | 89429  | 138476 | 48.18% | 3.362% |
| 59 | 14.810 | 2110 | 2117 | 2121 | rBV4 | 52061  | 125920 | 43.81% | 3.057% |
| 60 | 14.847 | 2121 | 2123 | 2131 | rVB4 | 27647  | 57503  | 20.01% | 1.396% |
| 61 | 14.969 | 2138 | 2143 | 2149 | rVB  | 36506  | 66279  | 23.06% | 1.609% |
| 62 | 15.072 | 2155 | 2160 | 2164 | rBV6 | 24453  | 43273  | 15.05% | 1.051% |
| 63 | 15.176 | 2172 | 2177 | 2187 | rBV8 | 20495  | 57360  | 19.96% | 1.393% |
| 64 | 15.261 | 2187 | 2191 | 2199 | rVB8 | 19866  | 40840  | 14.21% | 0.992% |
| 65 | 15.334 | 2199 | 2203 | 2207 | rBV2 | 28281  | 50473  | 17.56% | 1.226% |
| 66 | 15.432 | 2215 | 2219 | 2223 | rBV2 | 17877  | 25641  | 8.92%  | 0.623% |
| 67 | 15.481 | 2223 | 2227 | 2230 | rBV4 | 19606  | 30853  | 10.73% | 0.749% |
| 68 | 15.560 | 2236 | 2240 | 2249 | rVB  | 68654  | 130492 | 45.40% | 3.169% |
| 69 | 15.670 | 2250 | 2258 | 2264 | rBV5 | 26603  | 69298  | 24.11% | 1.683% |
| 70 | 15.743 | 2267 | 2270 | 2276 | rVB6 | 13259  | 21535  | 7.49%  | 0.523% |
| 71 | 15.871 | 2287 | 2291 | 2301 | rVB  | 48650  | 95492  | 33.22% | 2.319% |

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

## 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\82W010219S.M  
Title : SW846 8260

|    |        |      |      |      |      |       |       |        |        |
|----|--------|------|------|------|------|-------|-------|--------|--------|
| 72 | 16.029 | 2313 | 2317 | 2324 | rVB6 | 11806 | 28727 | 9.99%  | 0.698% |
| 73 | 16.188 | 2333 | 2343 | 2347 | rBV6 | 27682 | 72425 | 25.20% | 1.759% |
| 74 | 16.304 | 2358 | 2362 | 2367 | rVB4 | 8806  | 14762 | 5.14%  | 0.358% |
| 75 | 16.383 | 2370 | 2375 | 2381 | rVV3 | 33520 | 70613 | 24.57% | 1.715% |
| 76 | 16.450 | 2381 | 2386 | 2390 | rVV4 | 16639 | 36057 | 12.54% | 0.876% |
| 77 | 16.511 | 2391 | 2396 | 2407 | rVB2 | 33889 | 72114 | 25.09% | 1.751% |
| 78 | 16.663 | 2412 | 2421 | 2426 | rBV2 | 12114 | 40615 | 14.13% | 0.986% |

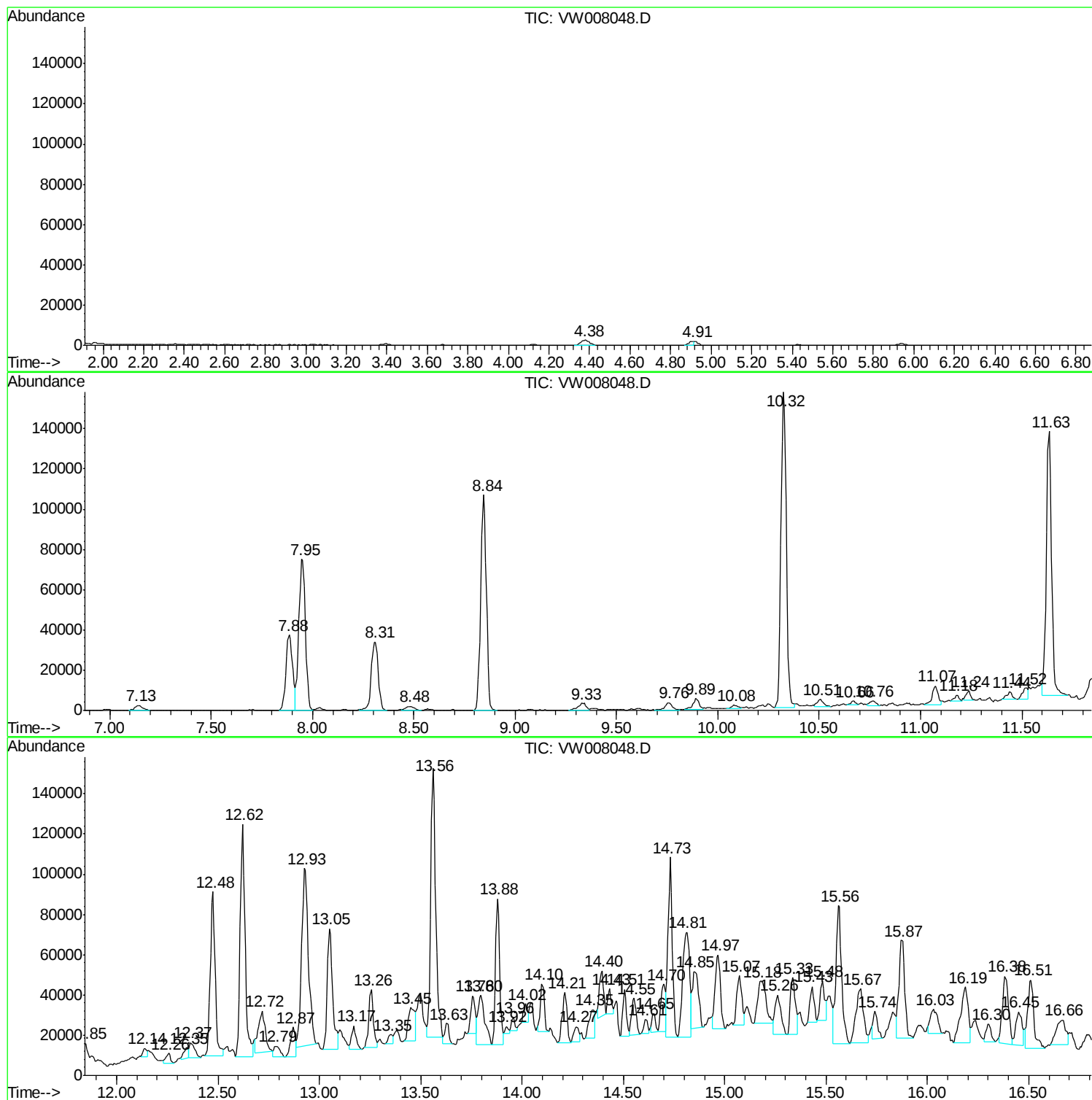
Sum of corrected areas: 4118412

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
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Sample : K1044-04  
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Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

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



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ALS Vial : 11 Sample Multiplier: 1

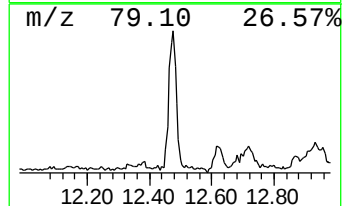
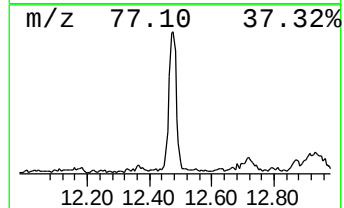
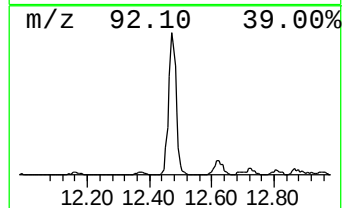
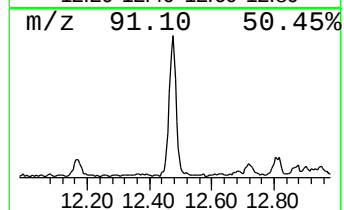
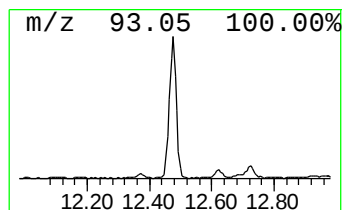
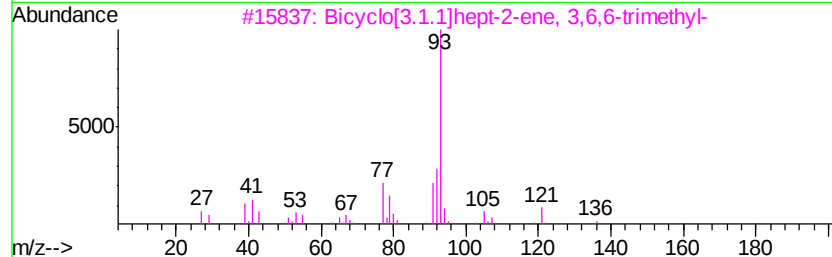
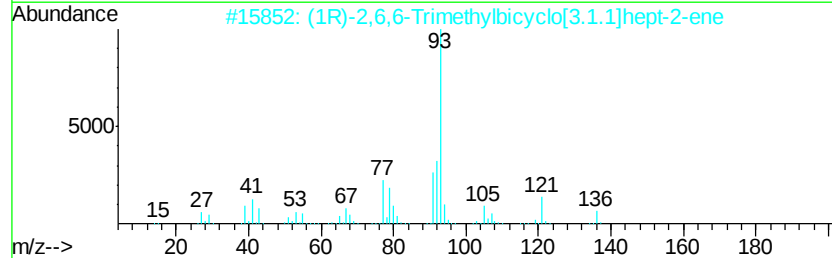
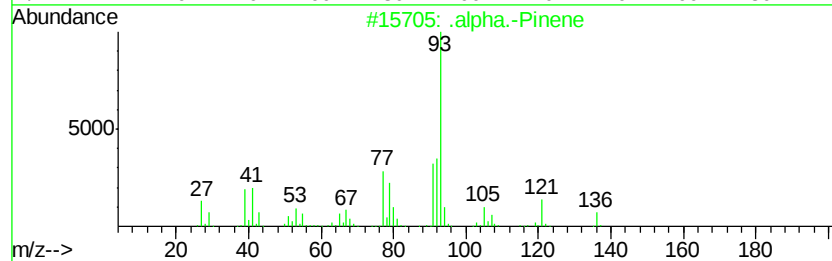
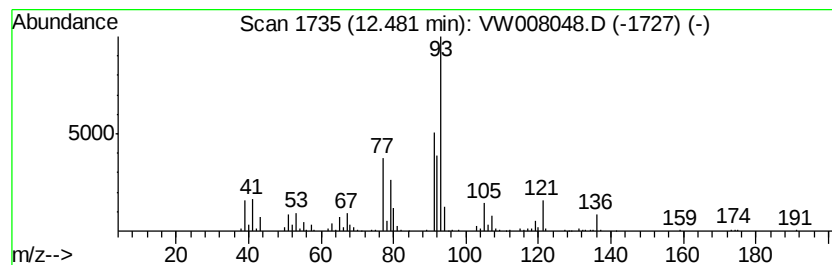
Instrument :  
MSVOA\_W  
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CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

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

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Peak Number 1 .alpha.-Pinene Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|------------|-------------------------------------|------------------|---------|-------------|------|
| 12.48   | 30.46 ug/l | 143779                              | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |            | .alpha.-Pinene                      | 136              | C10H16  | 000080-56-8 | 97   |
| 2       |            | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136              | C10H16  | 007785-70-8 | 94   |
| 3       |            | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136              | C10H16  | 004889-83-2 | 91   |
| 4       |            | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136              | C10H16  | 000508-32-7 | 91   |
| 5       |            | (+)-4-Carene                        | 136              | C10H16  | 029050-33-7 | 90   |



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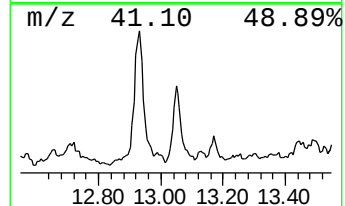
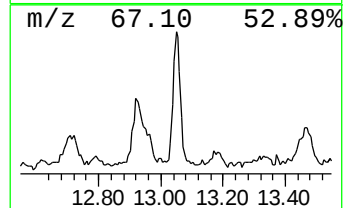
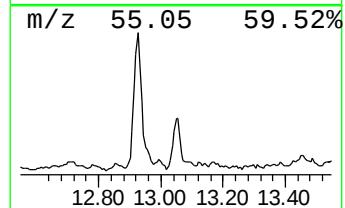
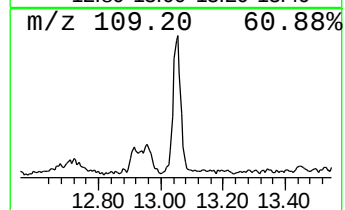
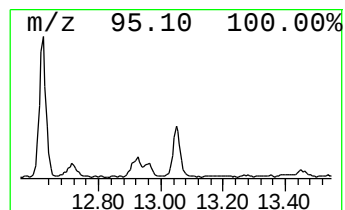
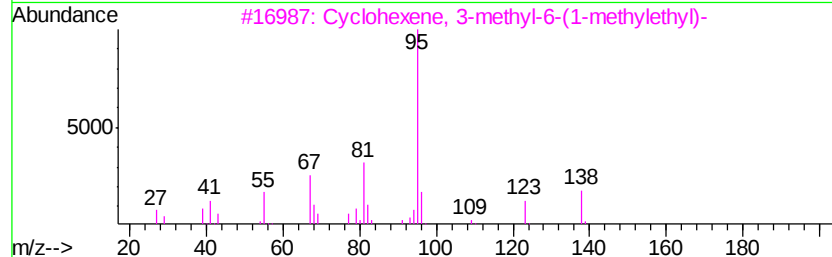
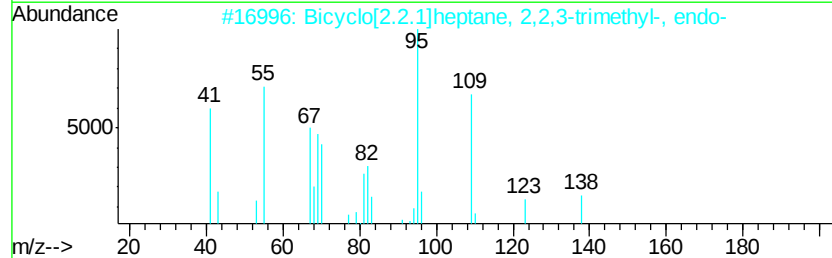
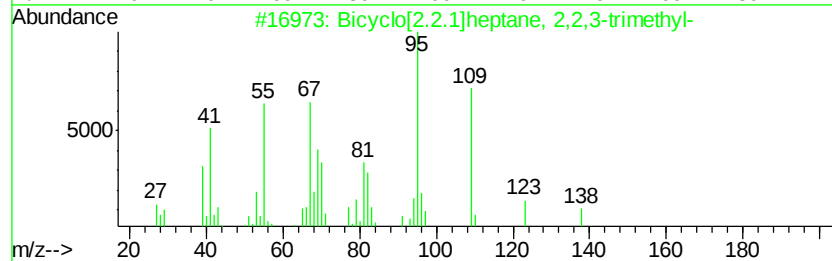
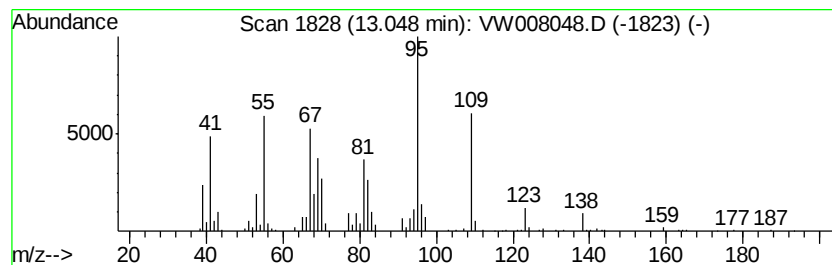
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Bicyclo[2.2.1]heptane, 2,2,... Concentration Rank 5

| R.T.    | EstConc    | Area                                 | Relative to ISTD       | R.T.           |
|---------|------------|--------------------------------------|------------------------|----------------|
| 13.05   | 24.19 ug/l | 109527                               | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                         | MW MolForm             | CAS# Qual      |
| 1       |            | Bicyclo[2.2.1]heptane, 2,2,3-tri...  | 138 C10H18             | 000473-19-8 96 |
| 2       |            | Bicyclo[2.2.1]heptane, 2,2,3-tri...  | 138 C10H18             | 020536-40-7 91 |
| 3       |            | Cyclohexene, 3-methyl-6-(1-methyl... | 138 C10H18             | 005256-65-5 89 |
| 4       |            | 3-Octyne, 7-methyl-                  | 124 C9H16              | 037050-06-9 55 |
| 5       |            | Cyclodecene                          | 138 C10H18             | 003618-12-0 46 |



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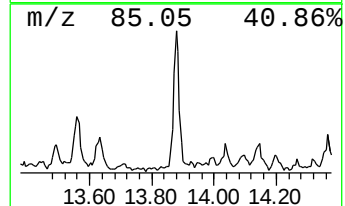
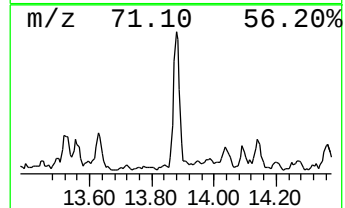
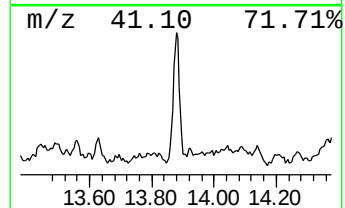
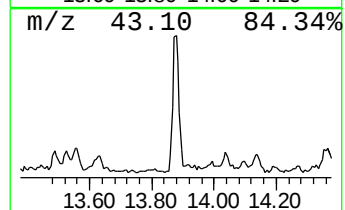
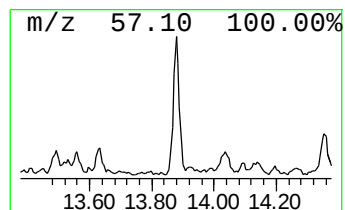
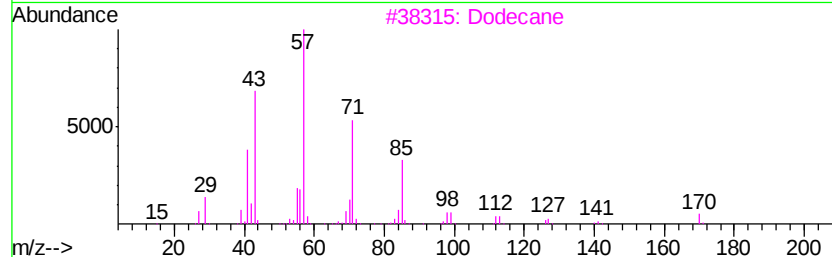
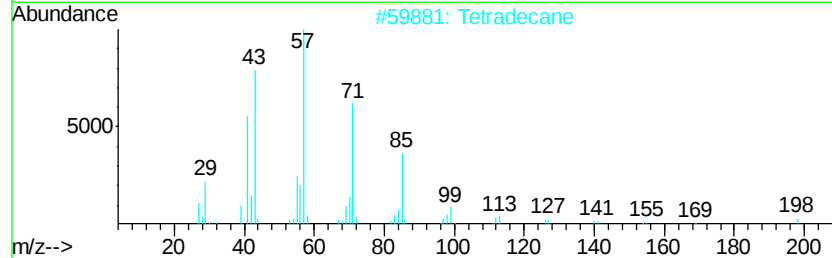
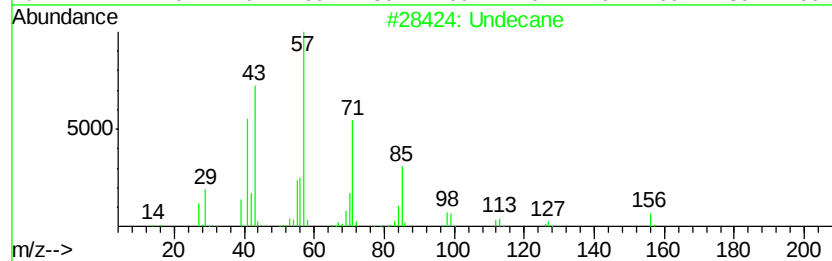
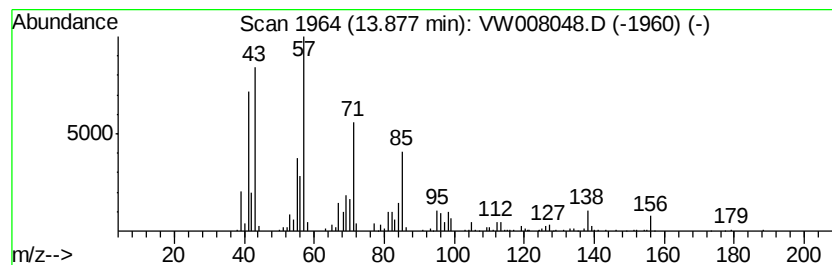
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 ClientSampleId :  
 CPSB-11(20-25)

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 Quant Title : SW846 8260

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

\*\*\*\*\*  
 Peak Number 3 Undecane Concentration Rank 6

| R.T.    | EstConc                             | Area          | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|---------------|------------------------|-----------|
| 13.88   | 24.16 ug/l                          | 109354        | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm             | CAS# Qual |
| 1       | Undecane                            | 156 C11H24    | 001120-21-4            | 96        |
| 2       | Tetradecane                         | 198 C14H30    | 000629-59-4            | 64        |
| 3       | Dodecane                            | 170 C12H26    | 000112-40-3            | 59        |
| 4       | Tridecane                           | 184 C13H28    | 000629-50-5            | 53        |
| 5       | Sulfurous acid, 2-ethylhexyl iso... | 278 C14H30O3S | 1000309-19-0           | 50        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

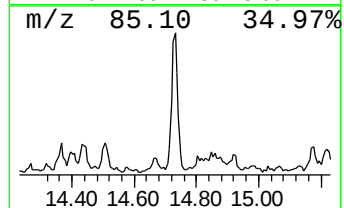
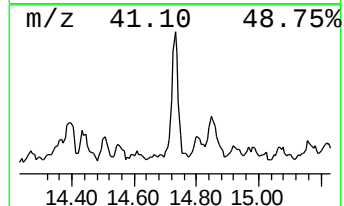
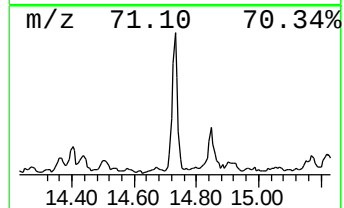
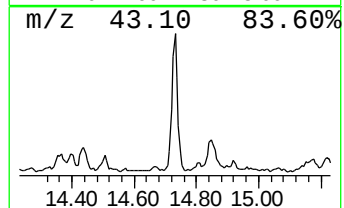
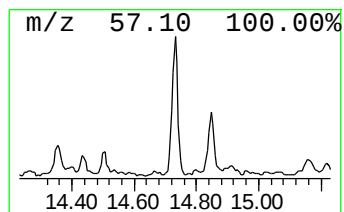
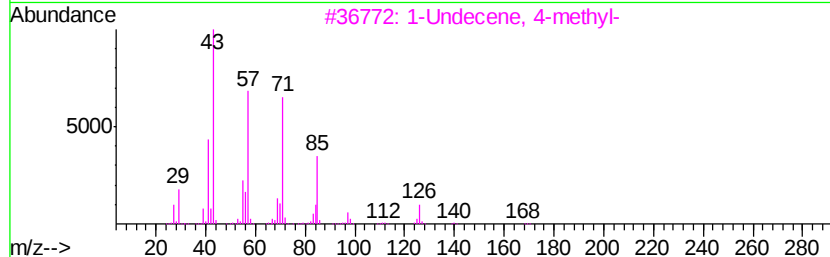
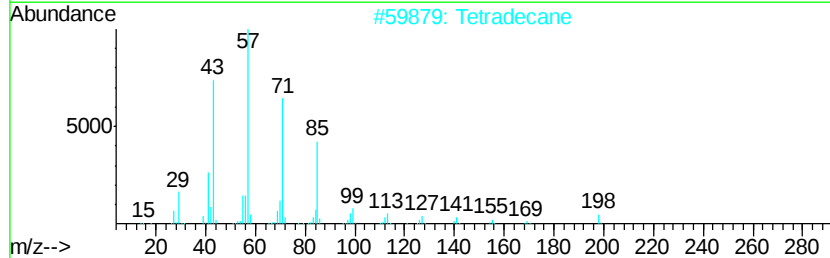
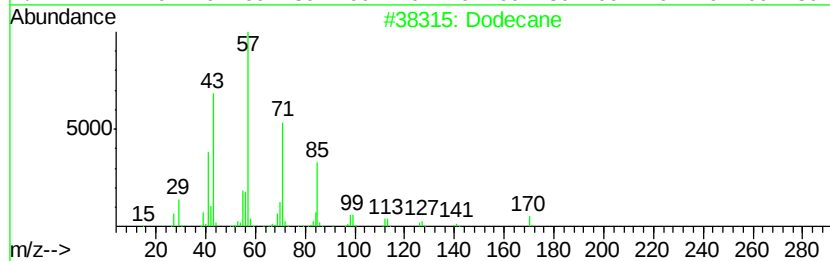
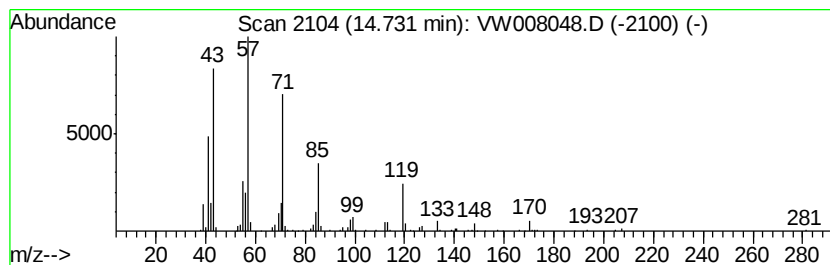
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Dodecane Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.73 | 30.59 ug/l | 138476 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane              | 170 | C12H26  | 000112-40-3 | 94   |
| 2    |    | Tetradecane           | 198 | C14H30  | 000629-59-4 | 58   |
| 3    |    | 1-Undecene, 4-methyl- | 168 | C12H24  | 074630-39-0 | 58   |
| 4    |    | Hexadecane            | 226 | C16H34  | 000544-76-3 | 58   |
| 5    |    | Tridecane             | 184 | C13H28  | 000629-50-5 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

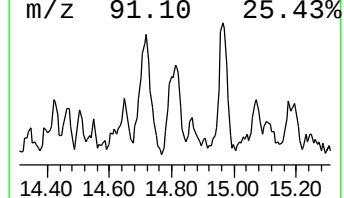
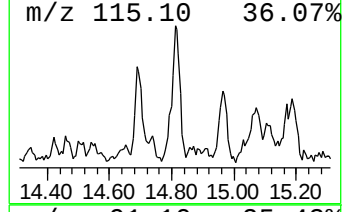
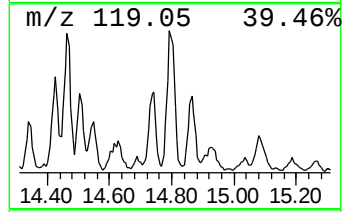
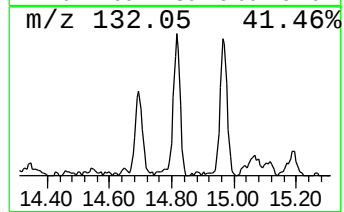
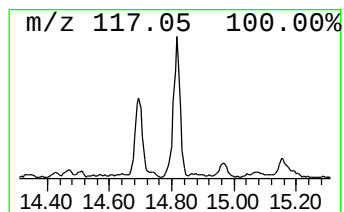
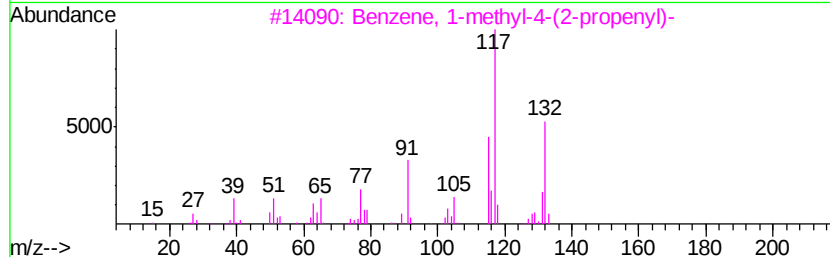
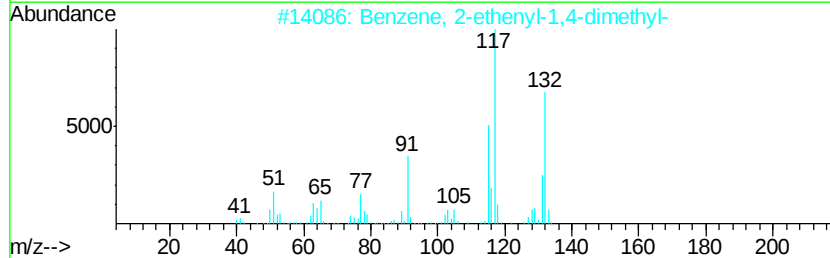
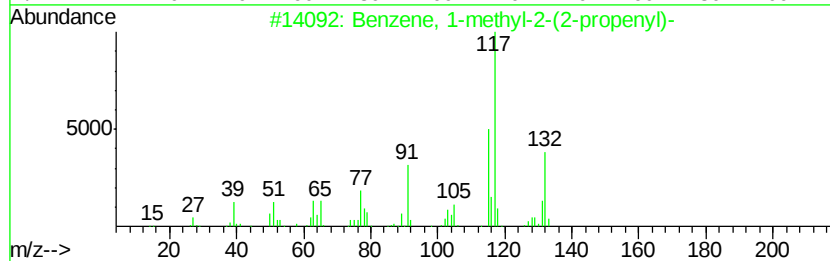
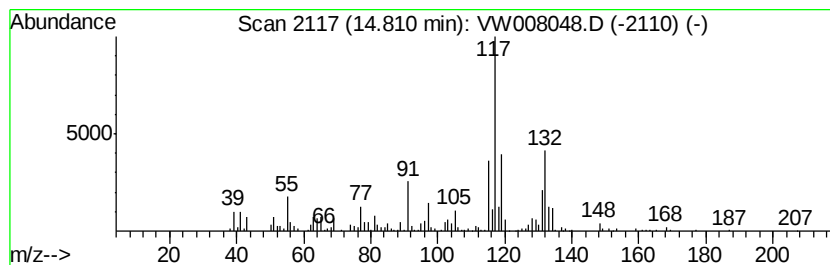
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 1-methyl-2-(2-prop... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.81 | 27.81 ug/l | 125920 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 93   |
| 2    |    |   | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 91   |
| 3    |    |   | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 86   |
| 4    |    |   | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 70   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 | C10H12  | 000874-35-1 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
 Data File : VW008048.D  
 Acq On : 04 Jan 2019 15:29  
 Operator : SY/AP  
 Sample : K1044-04  
 Misc : 5.07G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
 Quant Title : SW846 8260

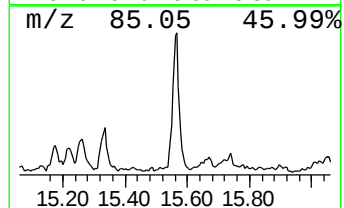
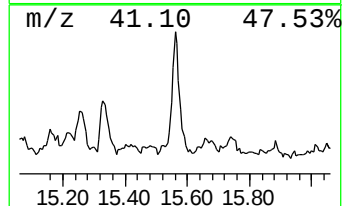
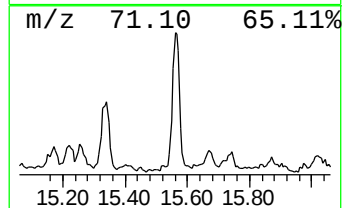
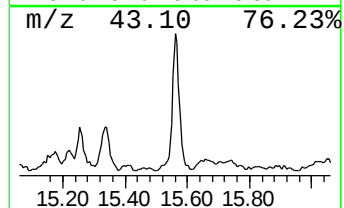
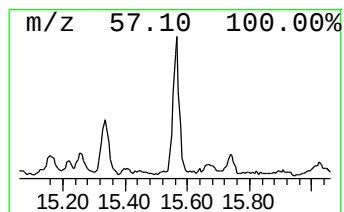
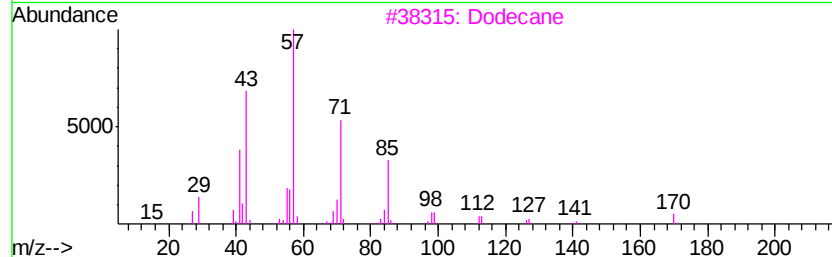
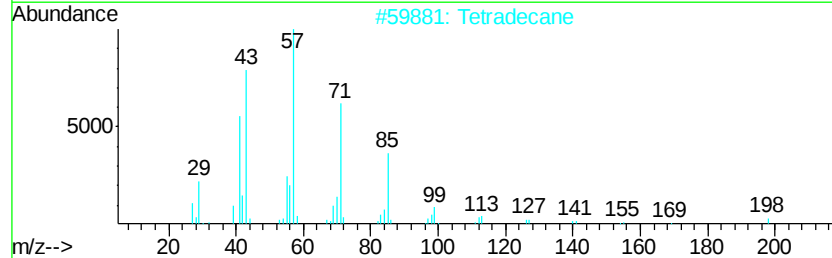
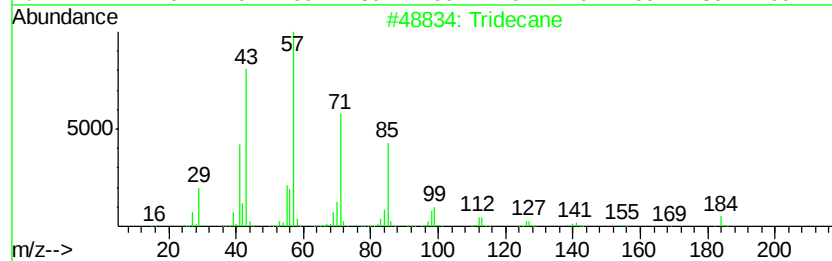
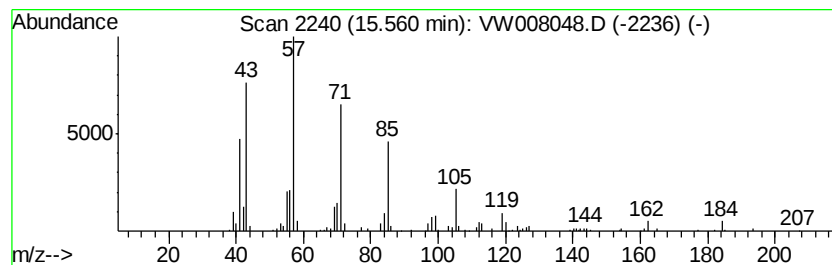
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 6 Tridecane Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.56 | 28.82 ug/l | 130492 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                       | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane               |              | 184 | C13H28  | 000629-50-5 | 90   |
| 2       | Tetradecane             |              | 198 | C14H30  | 000629-59-4 | 68   |
| 3       | Dodecane                |              | 170 | C12H26  | 000112-40-3 | 64   |
| 4       | Hexadecane              |              | 226 | C16H34  | 000544-76-3 | 64   |
| 5       | Undecane, 2,4-dimethyl- |              | 184 | C13H28  | 017312-80-0 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

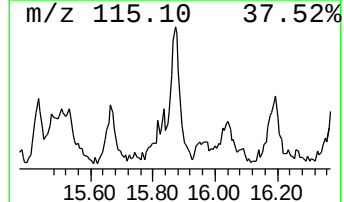
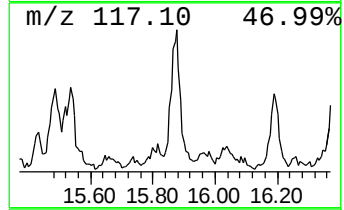
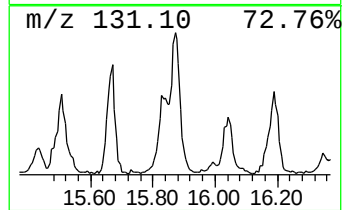
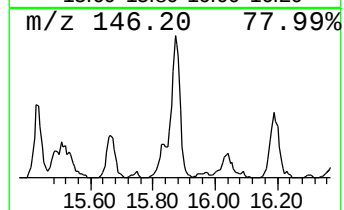
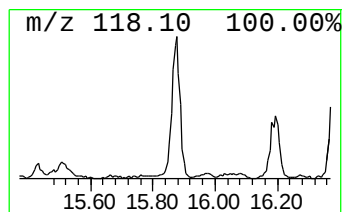
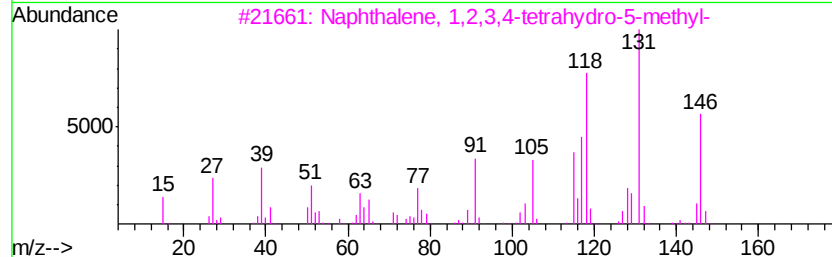
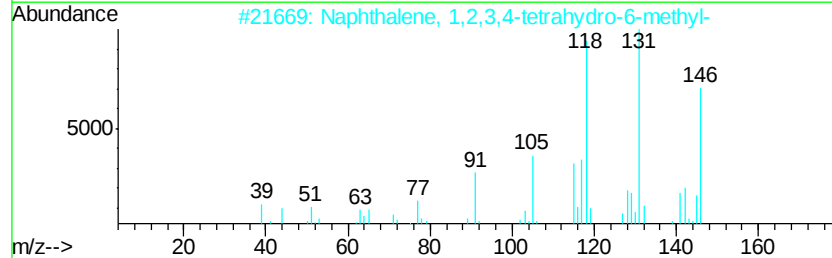
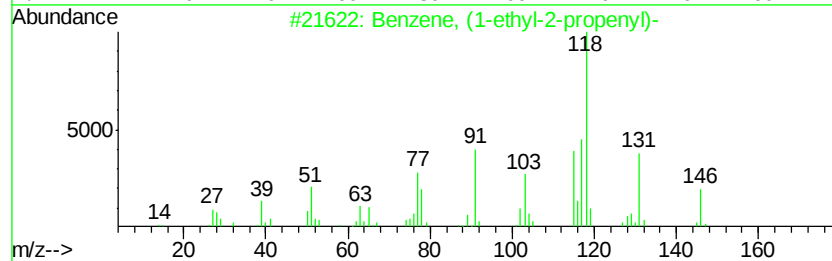
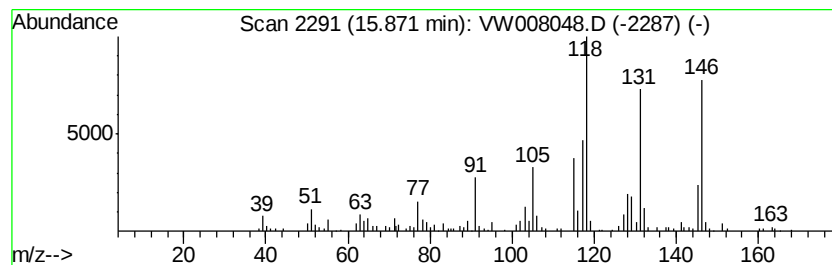
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, (1-ethyl-2-propenyl)- Concentration Rank 7

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 15.87 | 21.09 ug/l | 95492 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, (1-ethyl-2-propenyl)-      | 146 | C11H14  | 019947-22-9  | 87   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9  | 76   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5  | 72   |
| 4    |    | Naphth[1,2-b]oxirene, 1a,2,3,7b-... | 146 | C10H10O | 002461-34-9  | 64   |
| 5    |    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14  | 1000189-31-0 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

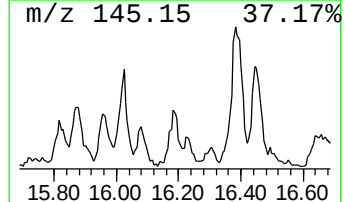
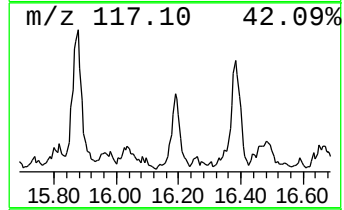
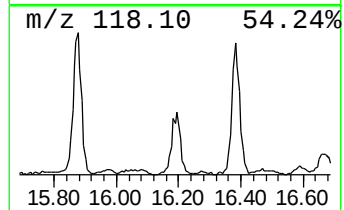
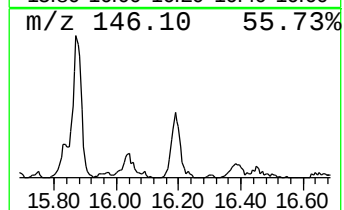
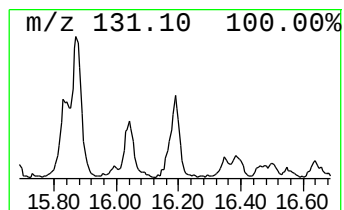
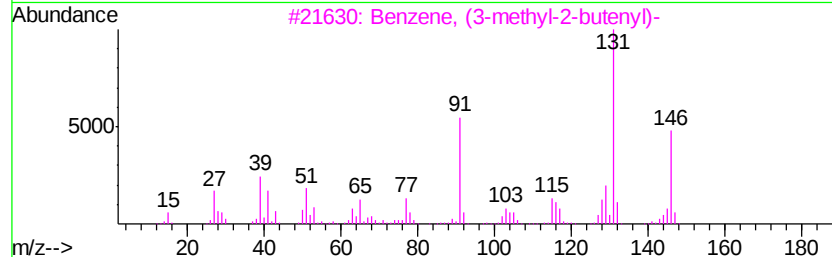
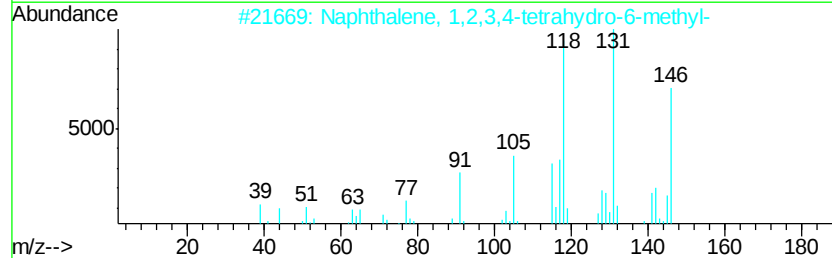
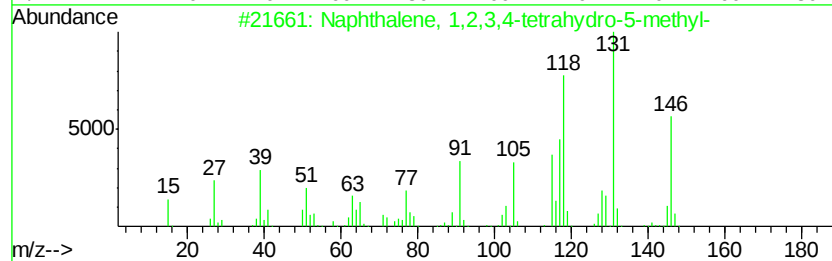
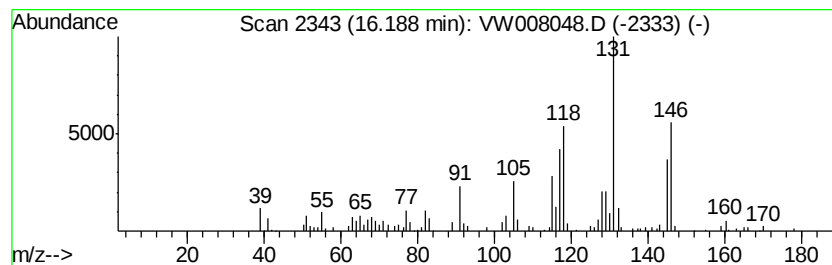
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 16.19 | 16.00 ug/l | 72425 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 93   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 62   |
| 3    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 58   |
| 4    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 53   |
| 5    |    | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

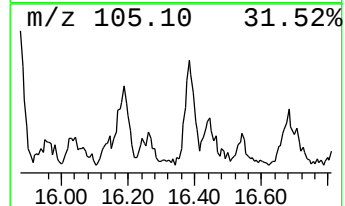
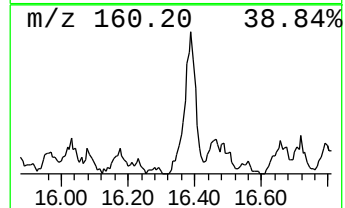
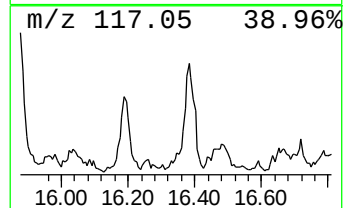
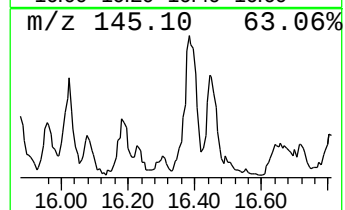
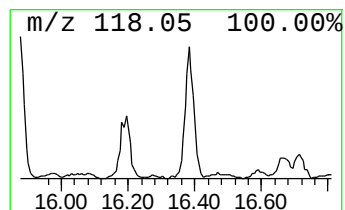
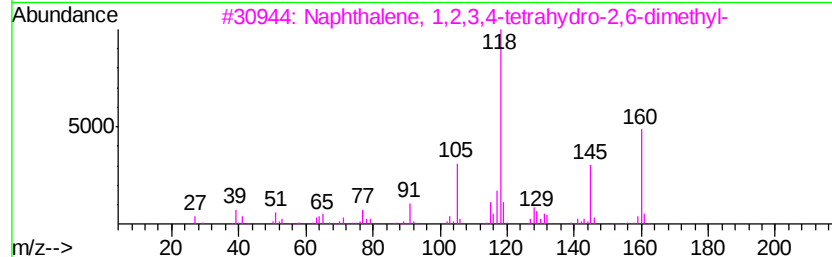
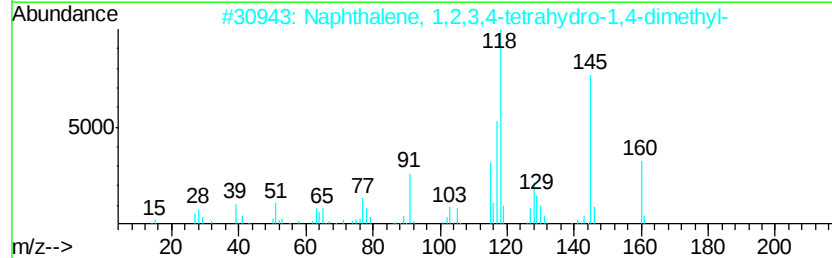
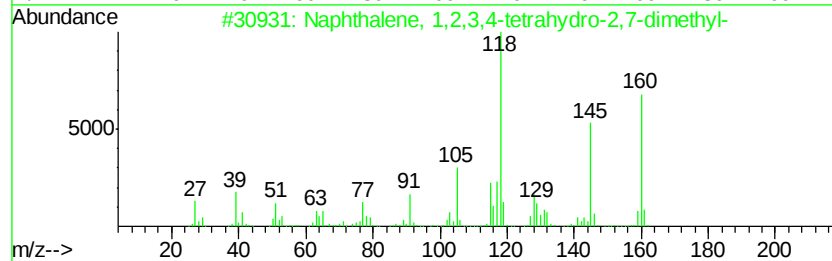
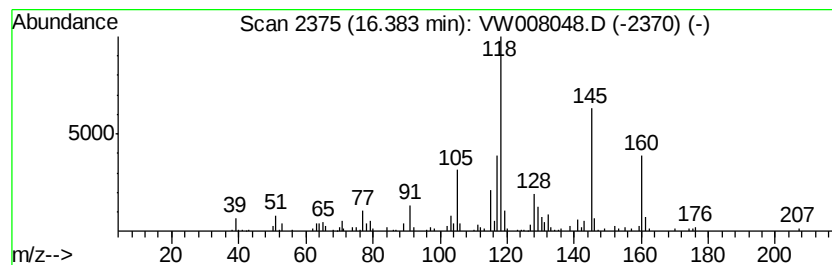
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 10

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 16.38 | 15.60 ug/l | 70613 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 91   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 91   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 58   |
| 4    |    | Benzene, (3-methyl-1-methylenebu... | 160 | C12H16  | 038212-14-5 | 58   |
| 5    |    | Benzene, 1-(1,1-dimethylethyl)-4... | 160 | C12H16  | 001746-23-2 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
CPSB-11(20-25)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
Quant Title : SW846 8260

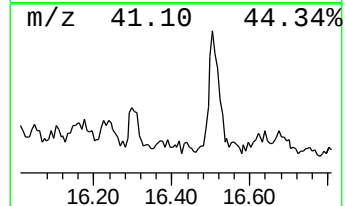
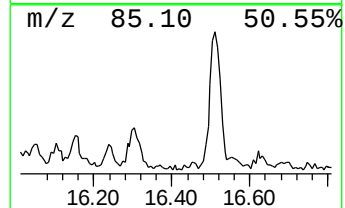
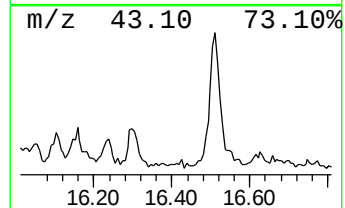
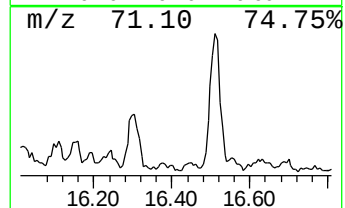
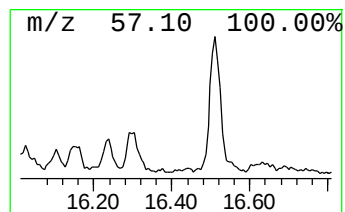
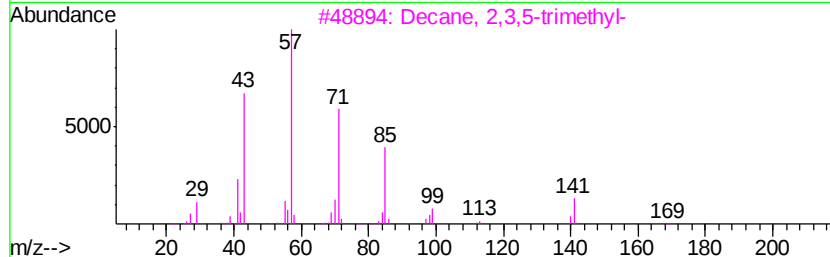
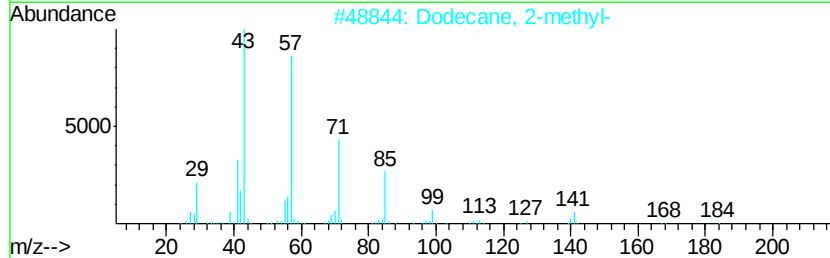
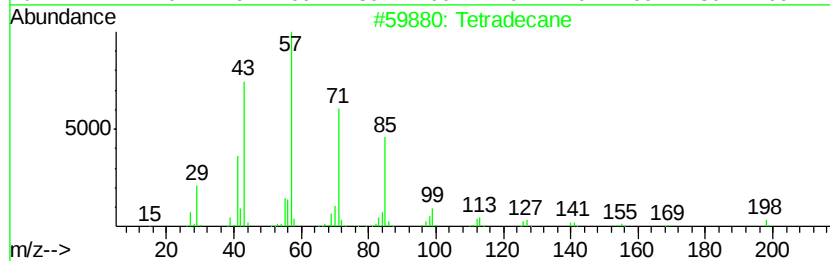
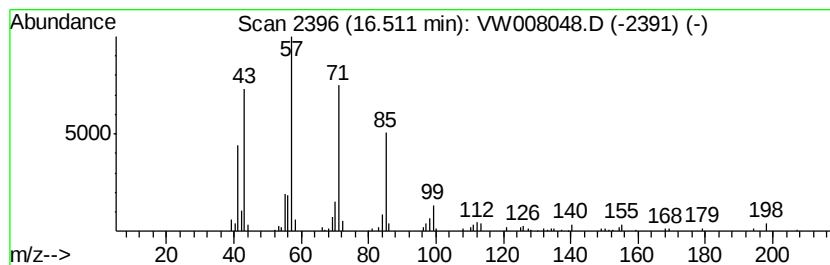
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Tetradecane Concentration Rank 9

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 16.51 | 15.93 ug/l | 72114 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Tetradecane                         | 198 | C14H30    | 000629-59-4  | 95   |
| 2       |   | Dodecane, 2-methyl-                 | 184 | C13H28    | 001560-97-0  | 86   |
| 3       |   | Decane, 2,3,5-trimethyl-            | 184 | C13H28    | 062238-11-3  | 86   |
| 4       |   | Pentadecane                         | 212 | C15H32    | 000629-62-9  | 72   |
| 5       |   | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 72   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW010419\  
Data File : VW008048.D  
Acq On : 04 Jan 2019 15:29  
Operator : SY/AP  
Sample : K1044-04  
Misc : 5.07G/5ML/MSVOA\_W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CPSB-11(20-25)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.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 |
| .alpha.-Pinene       | 12.48 | 30.5    | ug/l  | 143779   | 3                     | 11.63 | 235980 | 50.0 |
| Bicyclo[2.2.1]hep... | 13.05 | 24.2    | ug/l  | 109527   | 4                     | 13.56 | 226355 | 50.0 |
| Undecane             | 13.88 | 24.2    | ug/l  | 109354   | 4                     | 13.56 | 226355 | 50.0 |
| Dodecane             | 14.73 | 30.6    | ug/l  | 138476   | 4                     | 13.56 | 226355 | 50.0 |
| Benzene, 1-methyl... | 14.81 | 27.8    | ug/l  | 125920   | 4                     | 13.56 | 226355 | 50.0 |
| Tridecane            | 15.56 | 28.8    | ug/l  | 130492   | 4                     | 13.56 | 226355 | 50.0 |
| Benzene, (1-ethyl... | 15.87 | 21.1    | ug/l  | 95492    | 4                     | 13.56 | 226355 | 50.0 |
| Naphthalene, 1,2,... | 16.19 | 16.0    | ug/l  | 72425    | 4                     | 13.56 | 226355 | 50.0 |
| Naphthalene, 1,2,... | 16.38 | 15.6    | ug/l  | 70613    | 4                     | 13.56 | 226355 | 50.0 |
| Tetradecane          | 16.51 | 15.9    | ug/l  | 72114    | 4                     | 13.56 | 226355 | 50.0 |