

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
 Data File : VW012866.D  
 Acq On : 10 Sep 2019 13:24  
 Operator : SY/VA  
 Sample : K4668-01  
 Misc : 8.02G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-04-090319

## 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\82W090719S.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         | 1.947       | 5             | 7           | 25           | rVB2     | 16473          | 36349         | 3.57%           | 0.257%        |
| 2         | 2.148       | 34            | 40          | 52           | rBV3     | 6364           | 16997         | 1.67%           | 0.120%        |
| 3         | 2.666       | 115           | 125         | 126          | rBV8     | 7468           | 17384         | 1.71%           | 0.123%        |
| 4         | 3.678       | 282           | 291         | 298          | rBV2     | 6076           | 15828         | 1.55%           | 0.112%        |
| 5         | 4.117       | 355           | 363         | 374          | rBV      | 16394          | 46219         | 4.54%           | 0.326%        |
| 6         | 4.909       | 480           | 493         | 507          | rBV2     | 20615          | 71392         | 7.01%           | 0.504%        |
| 7         | 5.928       | 649           | 660         | 672          | rVB4     | 8248           | 27630         | 2.71%           | 0.195%        |
| 8         | 7.135       | 850           | 858         | 873          | rVB2     | 6247           | 18862         | 1.85%           | 0.133%        |
| 9         | 7.525       | 915           | 922         | 932          | rBV3     | 4435           | 13278         | 1.30%           | 0.094%        |
| 10        | 7.878       | 971           | 980         | 985          | rBV2     | 135928         | 319063        | 31.31%          | 2.253%        |
| 11        | 7.946       | 985           | 991         | 1000         | rVB      | 278131         | 628555        | 61.68%          | 4.438%        |
| 12        | 8.305       | 1041          | 1050        | 1061         | rBV      | 140542         | 313388        | 30.75%          | 2.213%        |
| 13        | 8.842       | 1129          | 1138        | 1147         | rBV      | 403949         | 799594        | 78.46%          | 5.646%        |
| 14        | 10.323      | 1371          | 1381        | 1389         | rBV      | 577661         | 1019123       | 100.00%         | 7.196%        |
| 15        | 11.628      | 1585          | 1595        | 1604         | rBV      | 455334         | 777744        | 76.32%          | 5.492%        |
| 16        | 11.731      | 1606          | 1612        | 1616         | rBV3     | 8100           | 13862         | 1.36%           | 0.098%        |
| 17        | 11.835      | 1621          | 1629        | 1639         | rVV2     | 39276          | 89112         | 8.74%           | 0.629%        |
| 18        | 12.164      | 1670          | 1683        | 1692         | rBV      | 41021          | 93553         | 9.18%           | 0.661%        |
| 19        | 12.250      | 1692          | 1697        | 1701         | rVB4     | 5997           | 10649         | 1.04%           | 0.075%        |
| 20        | 12.347      | 1707          | 1713        | 1714         | rBV4     | 6473           | 11814         | 1.16%           | 0.083%        |
| 21        | 12.463      | 1727          | 1732        | 1737         | rBV3     | 14041          | 25592         | 2.51%           | 0.181%        |
| 22        | 12.542      | 1741          | 1745        | 1747         | rVV2     | 9046           | 13028         | 1.28%           | 0.092%        |
| 23        | 12.615      | 1751          | 1757        | 1767         | rVB      | 327227         | 560053        | 54.95%          | 3.955%        |
| 24        | 12.804      | 1780          | 1788        | 1792         | rBV      | 42448          | 74455         | 7.31%           | 0.526%        |
| 25        | 12.865      | 1792          | 1798        | 1801         | rBV      | 151524         | 249917        | 24.52%          | 1.765%        |
| 26        | 12.896      | 1801          | 1803        | 1806         | rVV      | 78663          | 120086        | 11.78%          | 0.848%        |
| 27        | 12.932      | 1806          | 1809        | 1816         | rVB3     | 150044         | 271524        | 26.64%          | 1.917%        |
| 28        | 12.987      | 1816          | 1818        | 1823         | rVB2     | 15089          | 20050         | 1.97%           | 0.142%        |
| 29        | 13.042      | 1823          | 1827        | 1830         | rBV2     | 9029           | 16204         | 1.59%           | 0.114%        |
| 30        | 13.103      | 1830          | 1837        | 1843         | rBV      | 92926          | 165671        | 16.26%          | 1.170%        |
| 31        | 13.164      | 1843          | 1847        | 1854         | rVB4     | 34011          | 63436         | 6.22%           | 0.448%        |
| 32        | 13.249      | 1854          | 1861        | 1867         | rBV      | 314106         | 488111        | 47.90%          | 3.447%        |
| 33        | 13.377      | 1878          | 1882        | 1887         | rVB2     | 33275          | 51211         | 5.03%           | 0.362%        |
| 34        | 13.445      | 1887          | 1893        | 1897         | rBV2     | 67987          | 122747        | 12.04%          | 0.867%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
 Data File : VW012866.D  
 Acq On : 10 Sep 2019 13:24  
 Operator : SY/VA  
 Sample : K4668-01  
 Misc : 8.02G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-04-090319

## 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\82W090719S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.487 | 1897 | 1900 | 1906 | rVV3 | 36432  | 71882  | 7.05%  | 0.508% |
| 36 | 13.554 | 1906 | 1911 | 1920 | rVV2 | 324032 | 707001 | 69.37% | 4.992% |
| 37 | 13.621 | 1920 | 1922 | 1929 | rVB4 | 23226  | 30030  | 2.95%  | 0.212% |
| 38 | 13.719 | 1934 | 1938 | 1939 | rBV  | 31994  | 38398  | 3.77%  | 0.271% |
| 39 | 13.749 | 1939 | 1943 | 1947 | rVV2 | 166282 | 274298 | 26.92% | 1.937% |
| 40 | 13.792 | 1947 | 1950 | 1959 | rVB4 | 127627 | 276857 | 27.17% | 1.955% |
| 41 | 13.871 | 1959 | 1963 | 1969 | rBV3 | 225839 | 351364 | 34.48% | 2.481% |
| 42 | 13.951 | 1969 | 1976 | 1981 | rBV  | 60677  | 102223 | 10.03% | 0.722% |
| 43 | 14.012 | 1982 | 1986 | 1988 | rBV  | 64934  | 96959  | 9.51%  | 0.685% |
| 44 | 14.036 | 1988 | 1990 | 1994 | rVB  | 71034  | 88222  | 8.66%  | 0.623% |
| 45 | 14.097 | 1995 | 2000 | 2004 | rVB  | 116117 | 180696 | 17.73% | 1.276% |
| 46 | 14.158 | 2004 | 2010 | 2013 | rVB3 | 20622  | 33189  | 3.26%  | 0.234% |
| 47 | 14.207 | 2013 | 2018 | 2023 | rVB  | 155477 | 251606 | 24.69% | 1.777% |
| 48 | 14.261 | 2023 | 2027 | 2033 | rBV8 | 25543  | 62599  | 6.14%  | 0.442% |
| 49 | 14.341 | 2034 | 2040 | 2043 | rBV4 | 58332  | 114971 | 11.28% | 0.812% |
| 50 | 14.383 | 2043 | 2047 | 2051 | rBV3 | 68360  | 99672  | 9.78%  | 0.704% |
| 51 | 14.420 | 2051 | 2053 | 2056 | rVB2 | 40882  | 46313  | 4.54%  | 0.327% |
| 52 | 14.457 | 2056 | 2059 | 2062 | rVB  | 76817  | 92833  | 9.11%  | 0.656% |
| 53 | 14.499 | 2062 | 2066 | 2070 | rBV2 | 74458  | 95419  | 9.36%  | 0.674% |
| 54 | 14.542 | 2070 | 2073 | 2079 | rVB5 | 60872  | 93898  | 9.21%  | 0.663% |
| 55 | 14.603 | 2079 | 2083 | 2085 | rBV4 | 30934  | 46100  | 4.52%  | 0.326% |
| 56 | 14.639 | 2086 | 2089 | 2093 | rVB2 | 56090  | 71500  | 7.02%  | 0.505% |
| 57 | 14.688 | 2093 | 2097 | 2099 | rBV2 | 120666 | 182744 | 17.93% | 1.290% |
| 58 | 14.725 | 2099 | 2103 | 2109 | rVB3 | 263538 | 422829 | 41.49% | 2.986% |
| 59 | 14.810 | 2109 | 2117 | 2121 | rBV3 | 249164 | 600380 | 58.91% | 4.239% |
| 60 | 14.956 | 2136 | 2141 | 2148 | rVB  | 160715 | 273559 | 26.84% | 1.932% |
| 61 | 15.024 | 2150 | 2152 | 2154 | rVV3 | 16905  | 18816  | 1.85%  | 0.133% |
| 62 | 15.066 | 2154 | 2159 | 2162 | rVV2 | 86045  | 141691 | 13.90% | 1.001% |
| 63 | 15.103 | 2162 | 2165 | 2170 | rVB  | 35928  | 52520  | 5.15%  | 0.371% |
| 64 | 15.176 | 2170 | 2177 | 2185 | rVB4 | 90007  | 233446 | 22.91% | 1.648% |
| 65 | 15.249 | 2185 | 2189 | 2197 | rVB6 | 52507  | 114378 | 11.22% | 0.808% |
| 66 | 15.328 | 2197 | 2202 | 2211 | rBV6 | 82388  | 185851 | 18.24% | 1.312% |
| 67 | 15.420 | 2212 | 2217 | 2221 | rBV  | 79235  | 136397 | 13.38% | 0.963% |
| 68 | 15.475 | 2222 | 2226 | 2228 | rBV3 | 55028  | 87694  | 8.60%  | 0.619% |
| 69 | 15.554 | 2235 | 2239 | 2248 | rVB  | 228012 | 399311 | 39.18% | 2.820% |
| 70 | 15.658 | 2248 | 2256 | 2262 | rBV5 | 89417  | 224592 | 22.04% | 1.586% |
| 71 | 15.731 | 2264 | 2268 | 2274 | rVB6 | 36481  | 63580  | 6.24%  | 0.449% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

## 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\82W090719S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 15.822 | 2276 | 2283 | 2285 | rVV3 | 50715  | 107144 | 10.51% | 0.757% |
| 73 | 15.865 | 2285 | 2290 | 2296 | rVB  | 149430 | 291379 | 28.59% | 2.058% |
| 74 | 16.029 | 2310 | 2317 | 2322 | rVB5 | 40561  | 100507 | 9.86%  | 0.710% |
| 75 | 16.176 | 2332 | 2341 | 2346 | rBV3 | 86327  | 229216 | 22.49% | 1.619% |
| 76 | 16.285 | 2356 | 2359 | 2365 | rVB2 | 30339  | 43825  | 4.30%  | 0.309% |
| 77 | 16.371 | 2368 | 2373 | 2380 | rVV3 | 86824  | 184734 | 18.13% | 1.304% |
| 78 | 16.438 | 2380 | 2384 | 2388 | rVV4 | 31702  | 64757  | 6.35%  | 0.457% |
| 79 | 16.493 | 2388 | 2393 | 2399 | rVB  | 108029 | 193878 | 19.02% | 1.369% |

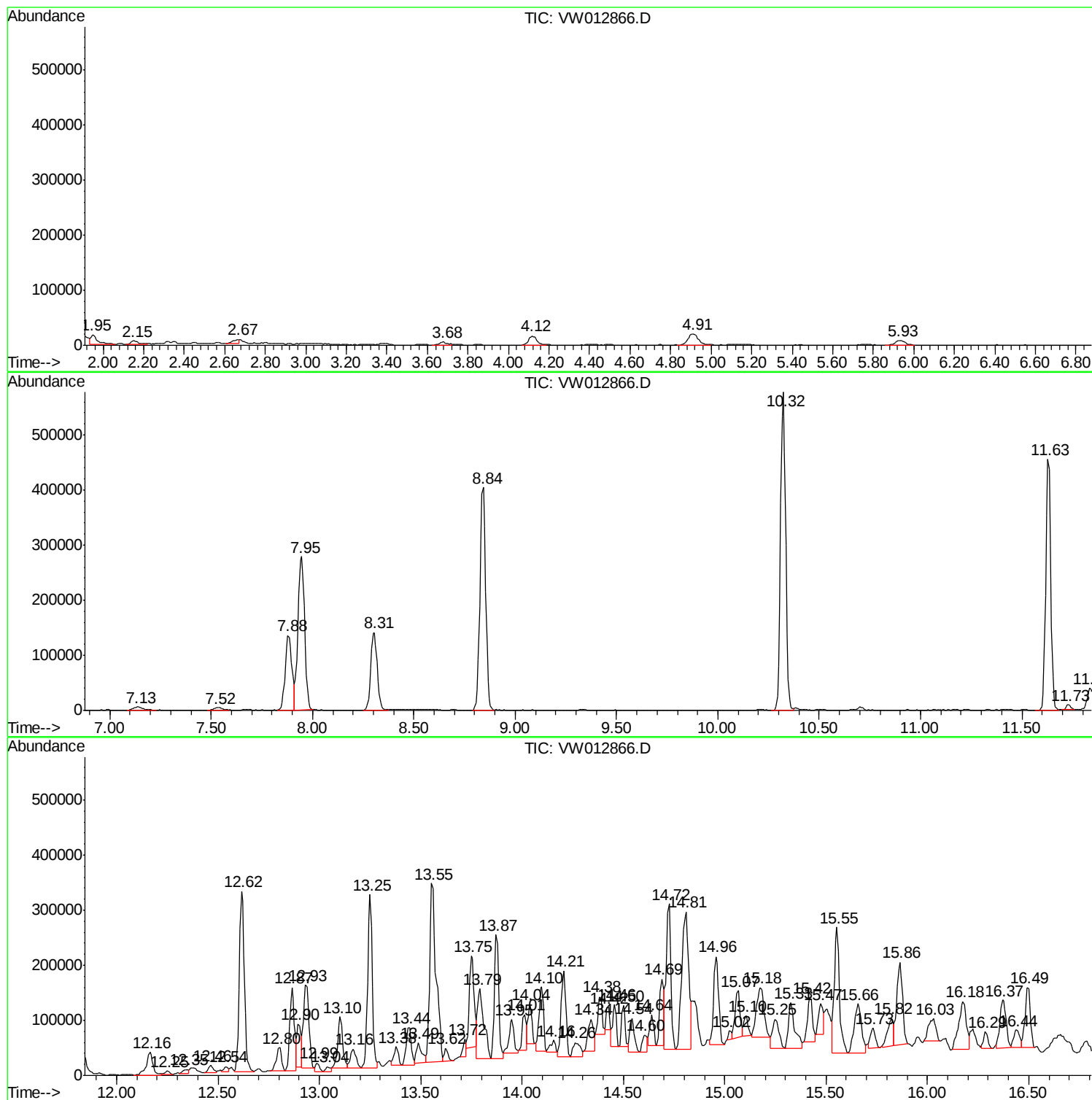
Sum of corrected areas: 14161739

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

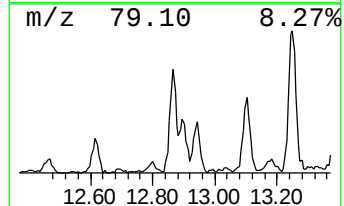
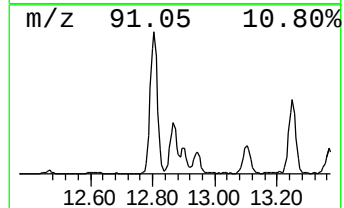
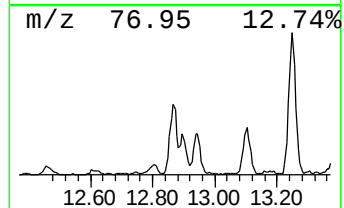
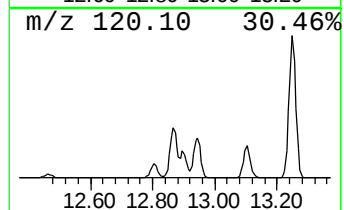
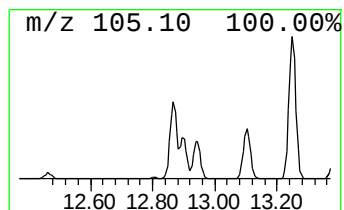
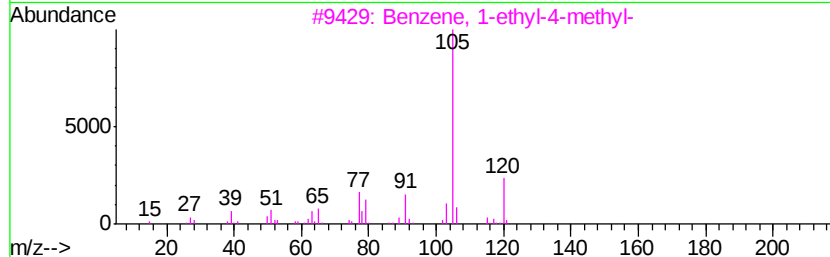
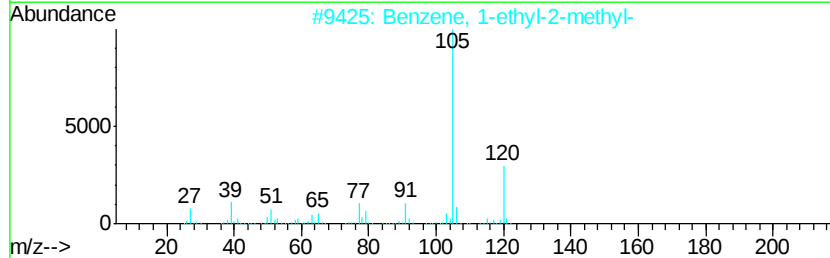
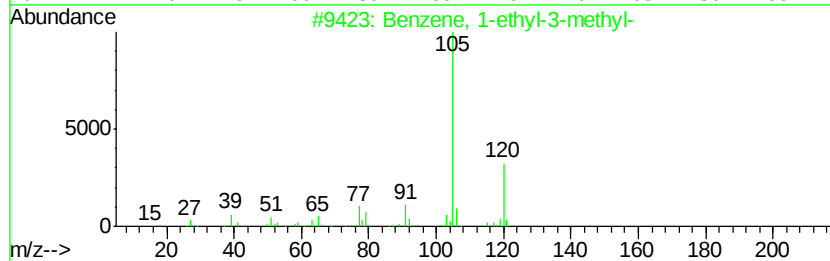
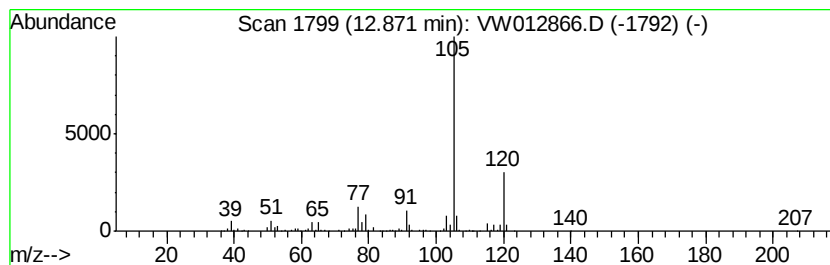
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.87 | 17.67 ug/l | 249917 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 95   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 94   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

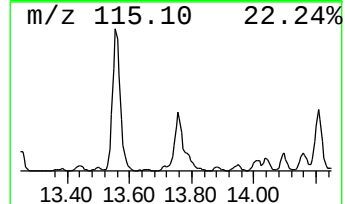
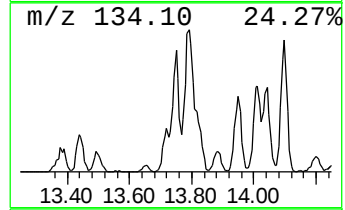
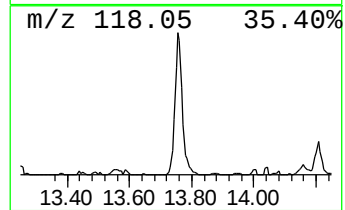
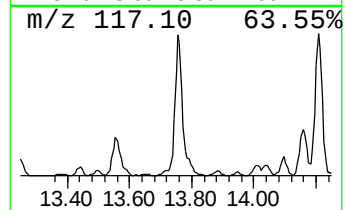
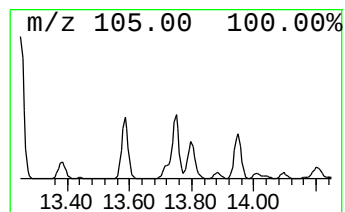
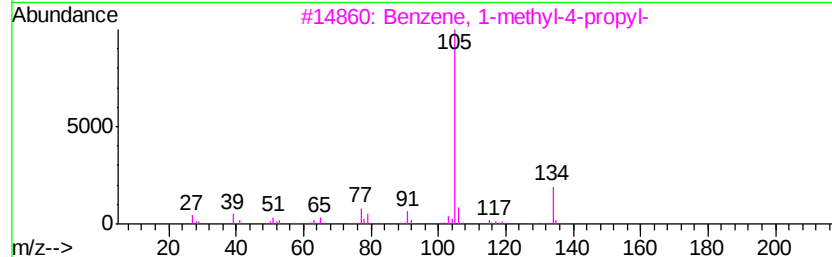
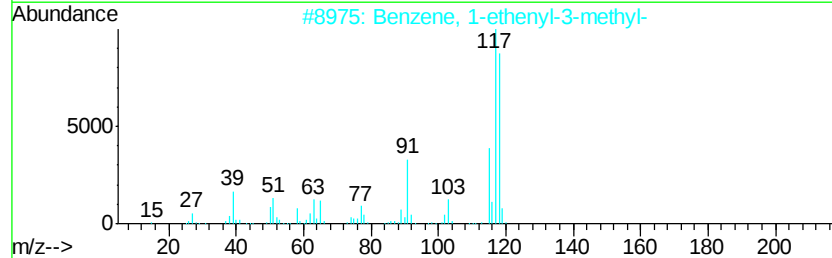
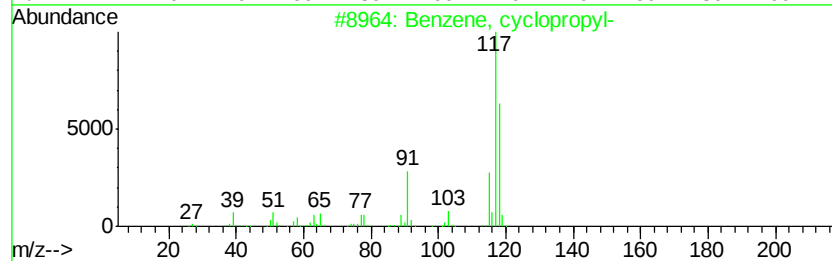
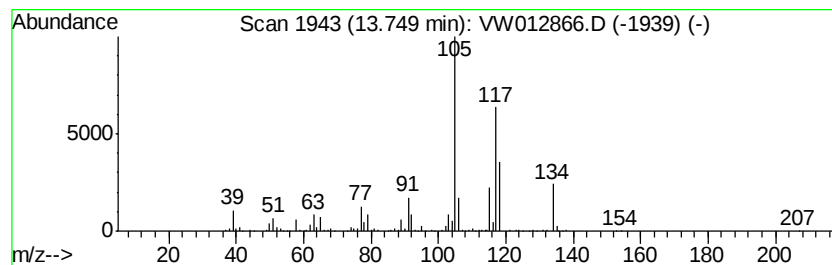
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown13.75 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.75 | 19.40 ug/l | 274298 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, cyclopropyl-        | 118 | C9H10   | 000873-49-4 | 41   |
| 2       |   | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 38   |
| 3       |   | Benzene, 1-methyl-4-propyl-  | 134 | C10H14  | 001074-55-1 | 38   |
| 4       |   | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 38   |
| 5       |   | Indane                       | 118 | C9H10   | 000496-11-7 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

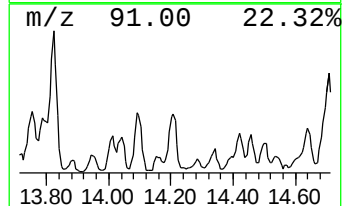
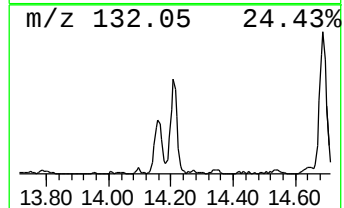
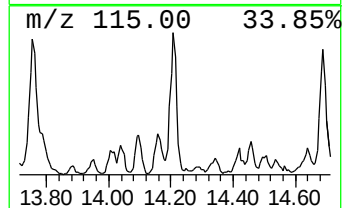
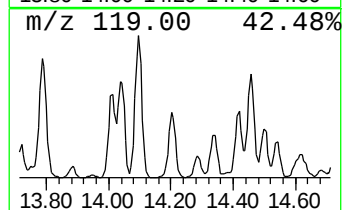
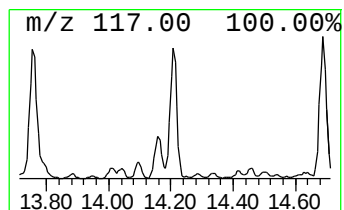
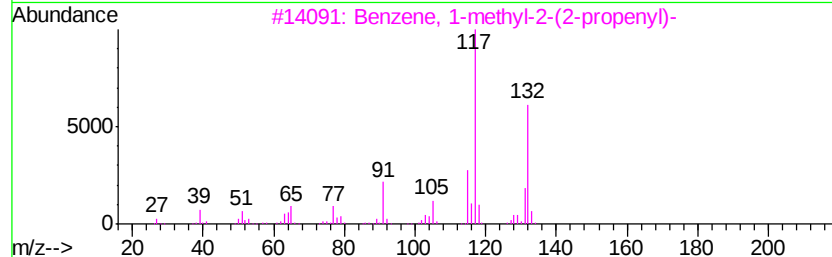
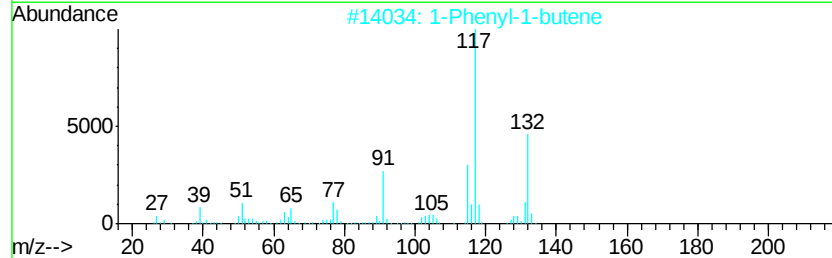
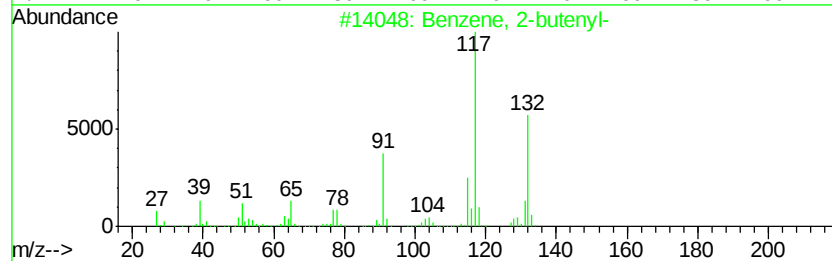
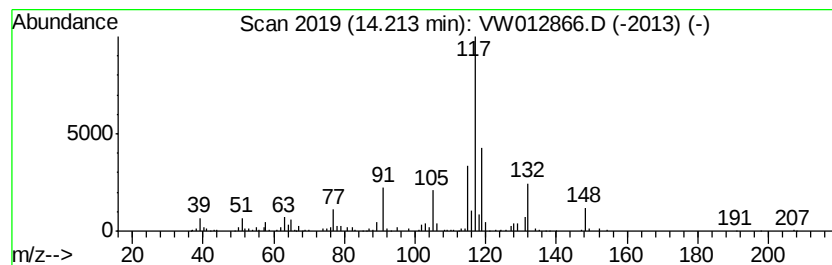
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 2-butenyl- Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.21 | 17.79 ug/l | 251606 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1  | 64   |
| 2    |    | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8  | 64   |
| 3    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8  | 64   |
| 4    |    | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1  | 64   |
| 5    |    | Benzene, (2-methylcyclopropyl)-   | 132 | C10H12  | 1000327-39-0 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

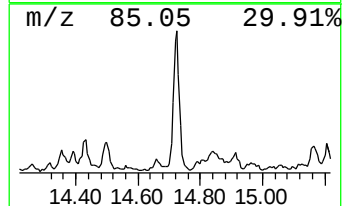
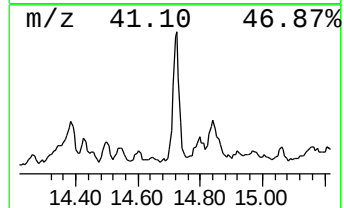
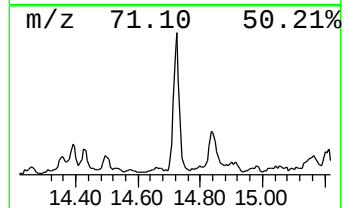
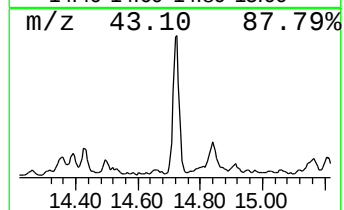
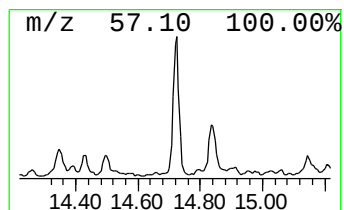
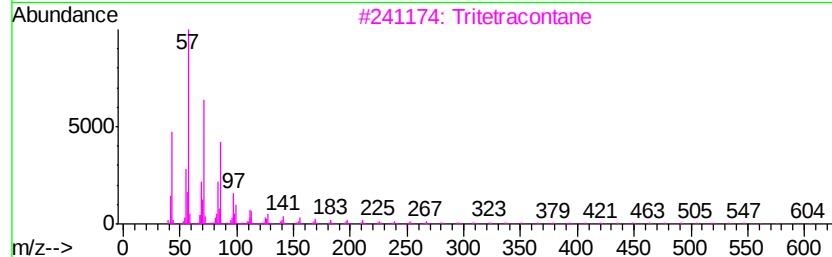
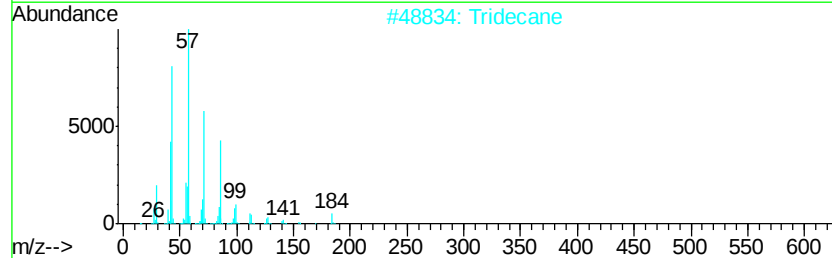
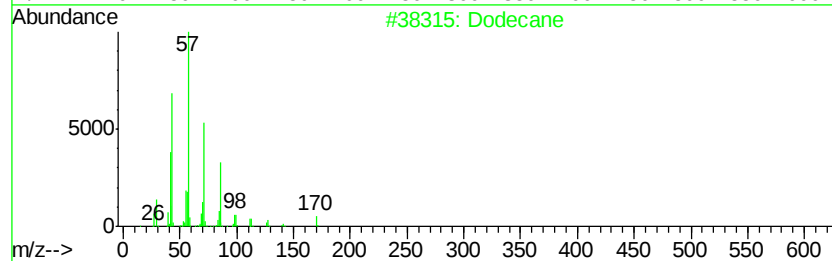
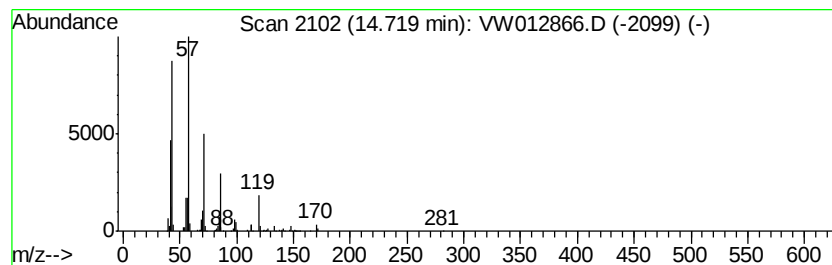
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Dodecane Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.72 | 29.90 ug/l | 422829 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|------------------|--------------|-----|----------|-------------|------|
| 1       | Dodecane         |              | 170 | C12H26   | 000112-40-3 | 89   |
| 2       | Tridecane        |              | 184 | C13H28   | 000629-50-5 | 58   |
| 3       | Tritetracontane  |              | 605 | C43H88   | 007098-21-7 | 53   |
| 4       | Undecane         |              | 156 | C11H24   | 001120-21-4 | 53   |
| 5       | Decane, 3-bromo- |              | 220 | C10H21Br | 030571-71-2 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

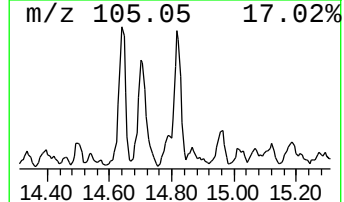
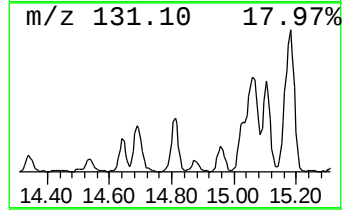
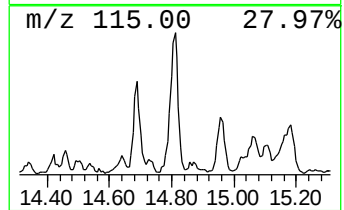
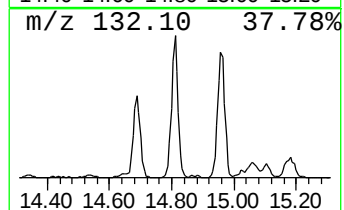
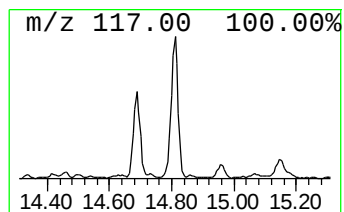
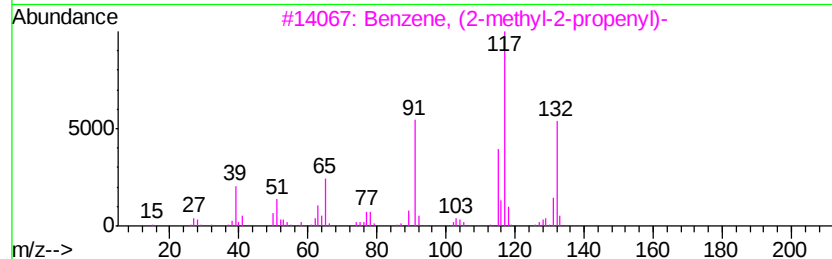
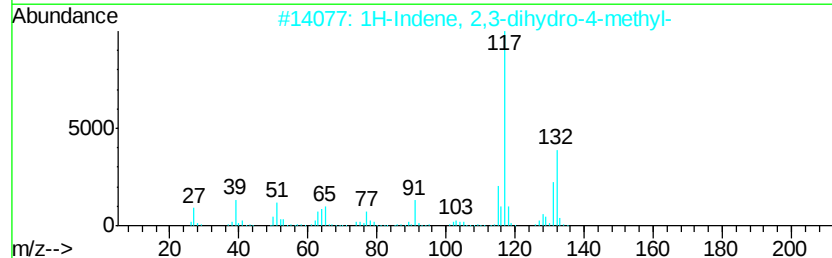
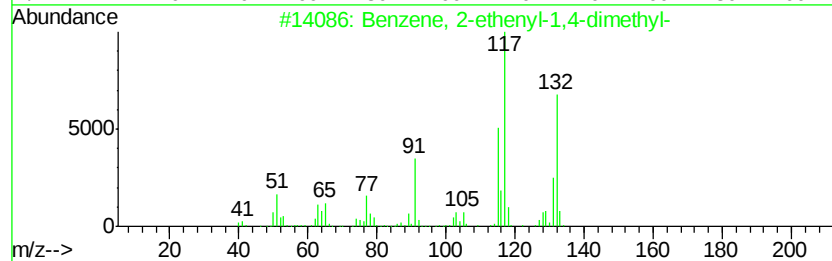
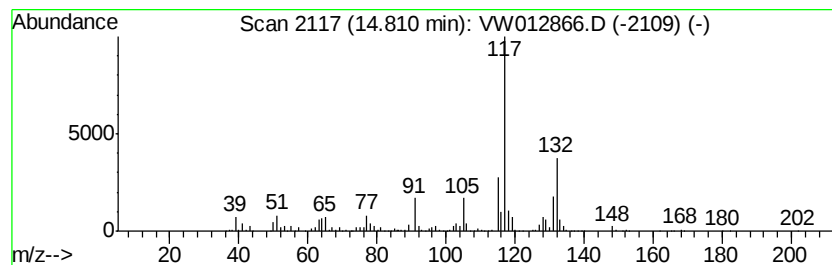
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.81 | 42.46 ug/l | 600380 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|----------------------------------|-----|---------|-------------|------|
| 1       | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 95   |
| 2       | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 93   |
| 3       | Benzene, (2-methyl-2-propenyl)-  | 132 | C10H12  | 003290-53-7 | 91   |
| 4       | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 91   |
| 5       | Benzene, 2-butenyl-              | 132 | C10H12  | 001560-06-1 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

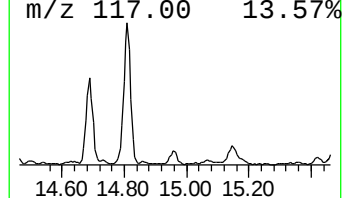
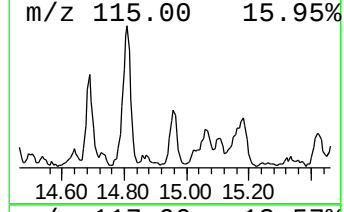
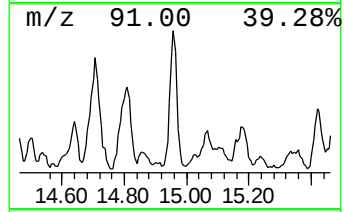
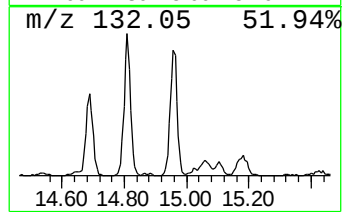
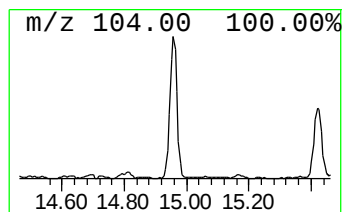
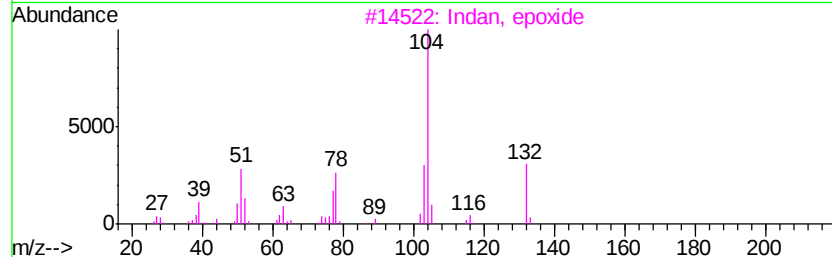
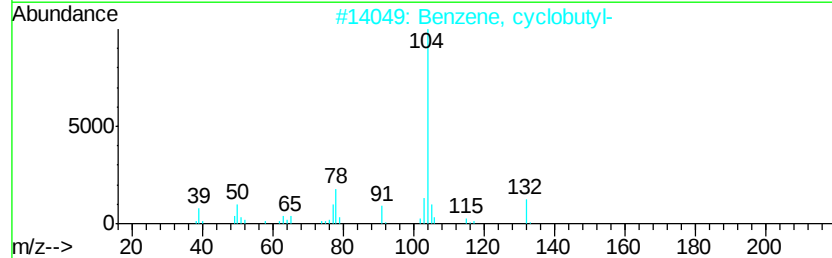
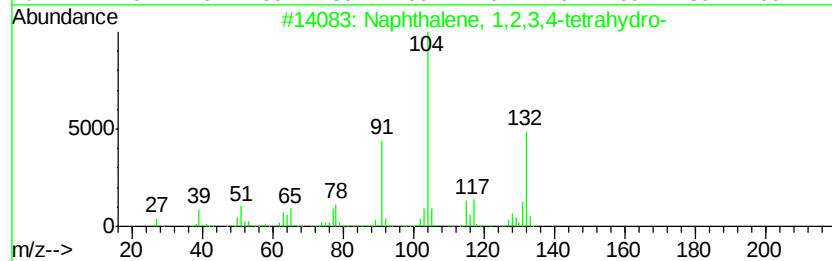
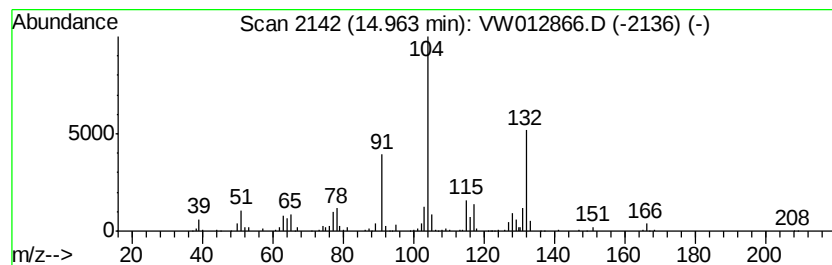
Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Naphthalene, 1,2,3,4-tetrahydro- Concentration Rank 6

| R.T.    | EstConc    | Area                             | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------------|------------------------|----------------|
| 14.96   | 19.35 ug/l | 273559                           | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                     | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 1,2,3,4-tetrahydro- | 132 C10H12             | 000119-64-2 96 |
| 2       |            | Benzene, cyclobutyl-             | 132 C10H12             | 004392-30-7 59 |
| 3       |            | Indan, epoxide                   | 132 C9H8O              | 000768-22-9 58 |
| 4       |            | 2H-Inden-2-one, 1,3-dihydro-     | 132 C9H8O              | 000615-13-4 53 |
| 5       |            | Benzene, 3-cyclohexen-1-yl-      | 158 C12H14             | 004994-16-5 47 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

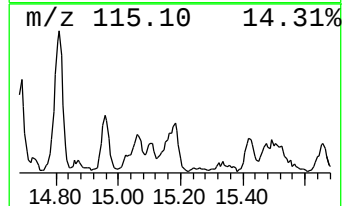
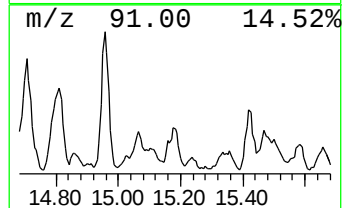
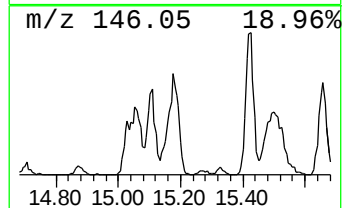
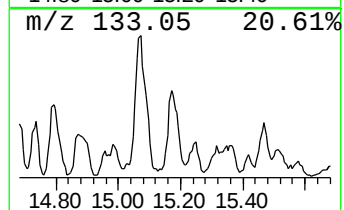
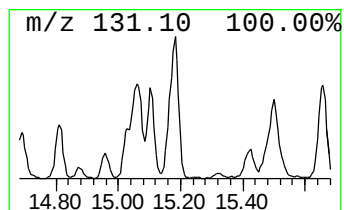
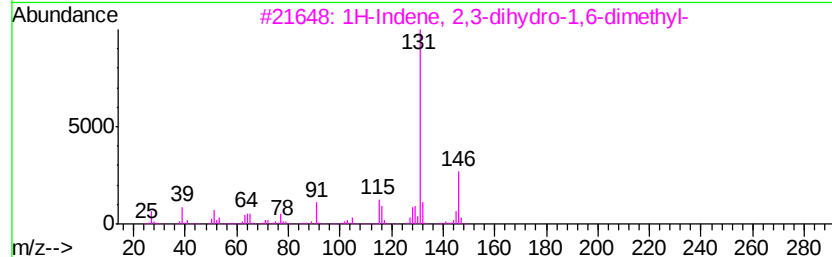
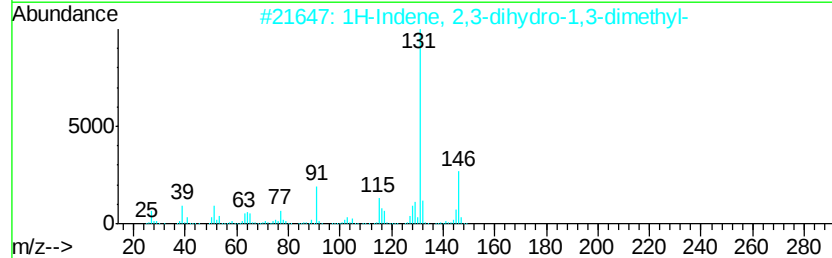
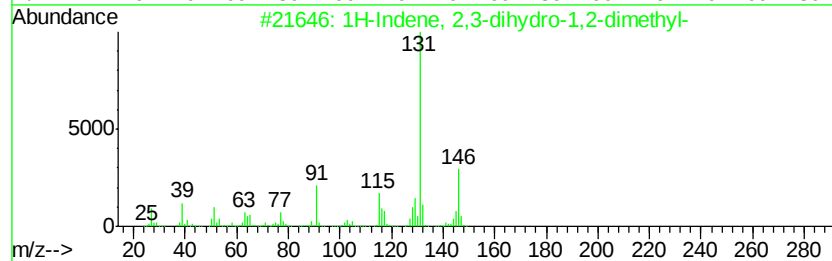
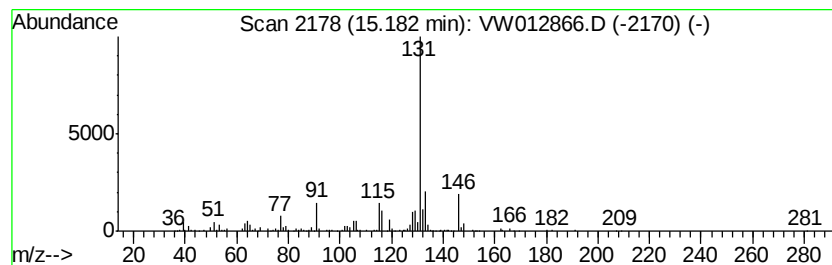
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.18 | 16.51 ug/l | 233446 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 81   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14  | 004175-53-5 | 81   |
| 3    |    | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 81   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 81   |
| 5    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

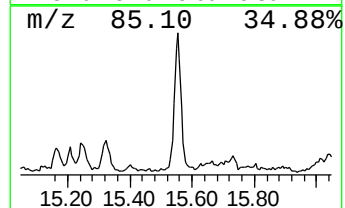
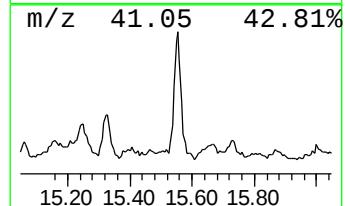
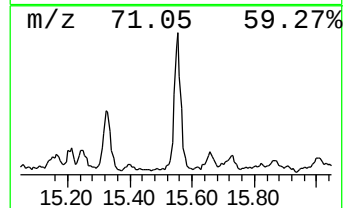
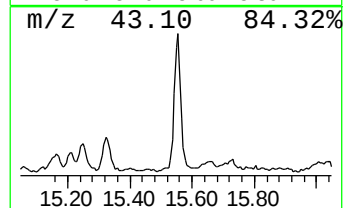
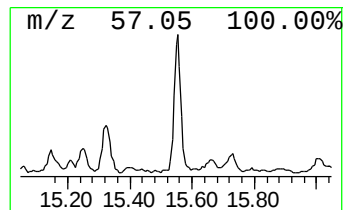
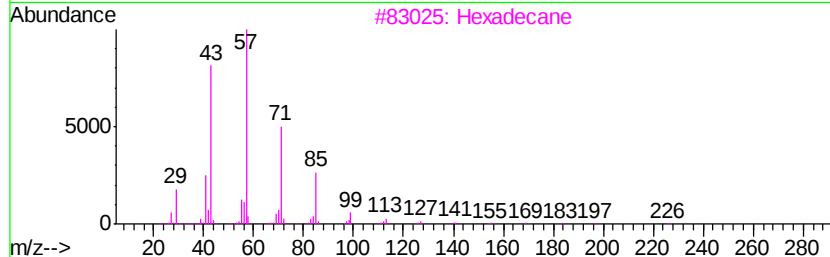
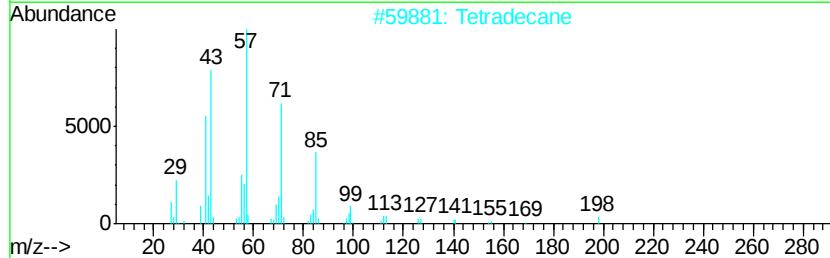
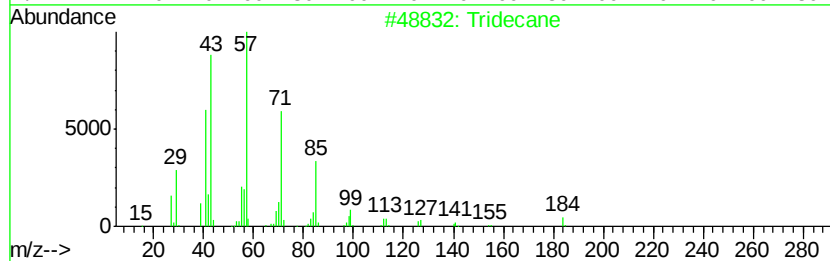
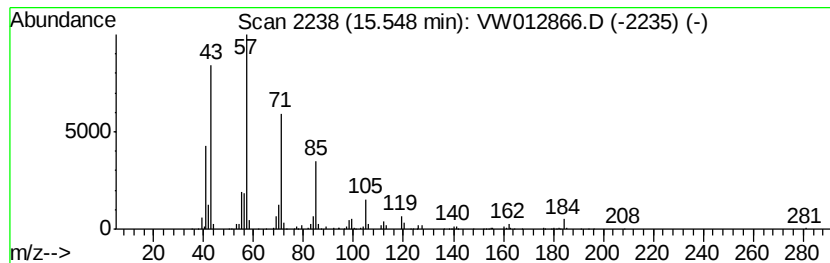
Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Tridecane Concentration Rank 3

| R.T.    | EstConc               | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------|--------------|------------------------|-----------|
| 15.55   | 28.24 ug/l            | 399311       | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                     | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Tridecane             | 184 C13H28   | 000629-50-5            | 89        |
| 2       | Tetradecane           | 198 C14H30   | 000629-59-4            | 62        |
| 3       | Hexadecane            | 226 C16H34   | 000544-76-3            | 58        |
| 4       | Decane, 2,4-dimethyl- | 170 C12H26   | 002801-84-5            | 50        |
| 5       | Hexadecane, 7-methyl- | 240 C17H36   | 026730-20-1            | 50        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260

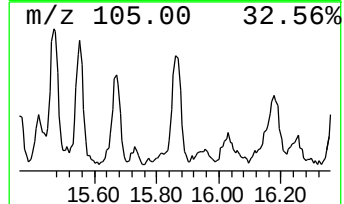
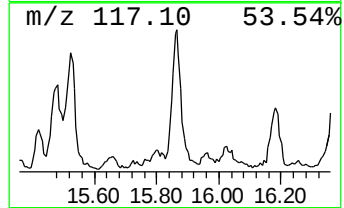
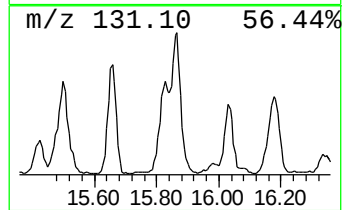
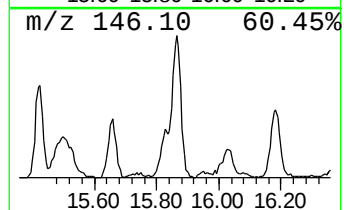
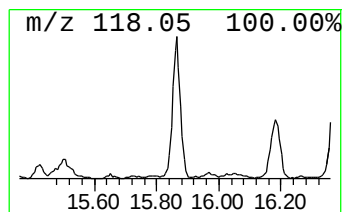
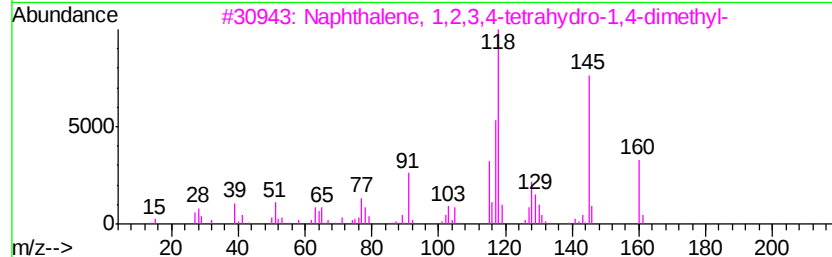
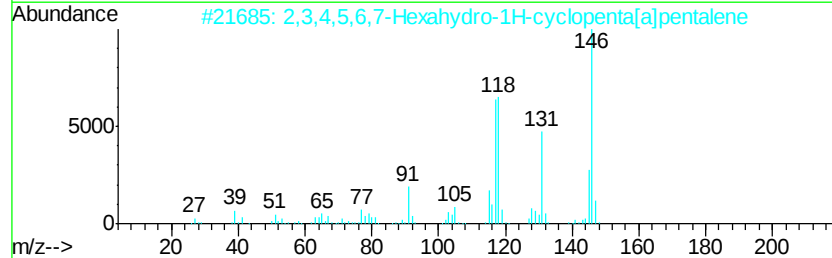
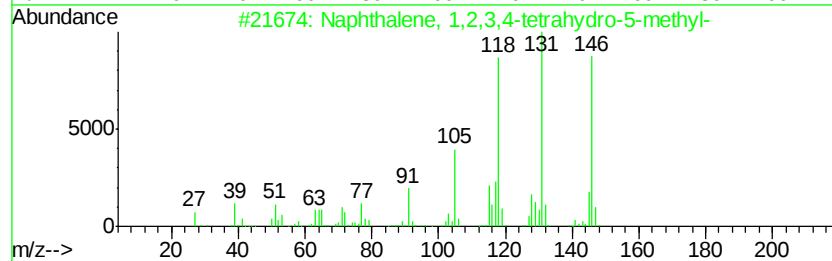
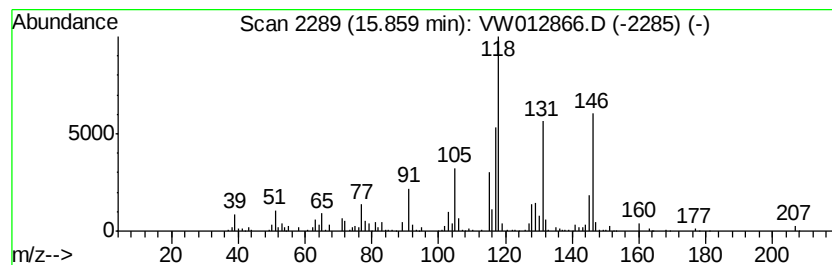
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.86 | 20.61 ug/l | 291379 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|---------|---|-------------------------------------|-----|---------|--------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5  | 74   |
| 2       |   | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14  | 1000189-31-0 | 70   |
| 3       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6  | 64   |
| 4       |   | Benzene, (1-methylenebutyl)-        | 146 | C11H14  | 005676-32-4  | 58   |
| 5       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9  | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW091019\  
Data File : VW012866.D  
Acq On : 10 Sep 2019 13:24  
Operator : SY/VA  
Sample : K4668-01  
Misc : 8.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SU-04-090319

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.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 |
| Benzene, 1-ethyl-... | 12.87 | 17.7    | ug/l  | 249917   | 4                     | 13.56 | 707001 | 50.0 |
| unknown13.75         | 13.75 | 19.4    | ug/l  | 274298   | 4                     | 13.56 | 707001 | 50.0 |
| Benzene, 2-butenyl-  | 14.21 | 17.8    | ug/l  | 251606   | 4                     | 13.56 | 707001 | 50.0 |
| Dodecane             | 14.72 | 29.9    | ug/l  | 422829   | 4                     | 13.56 | 707001 | 50.0 |
| Benzene, 2-etheny... | 14.81 | 42.5    | ug/l  | 600380   | 4                     | 13.56 | 707001 | 50.0 |
| Naphthalene, 1,2,... | 14.96 | 19.4    | ug/l  | 273559   | 4                     | 13.56 | 707001 | 50.0 |
| 1H-Indene, 2,3-di... | 15.18 | 16.5    | ug/l  | 233446   | 4                     | 13.56 | 707001 | 50.0 |
| Tridecane            | 15.55 | 28.2    | ug/l  | 399311   | 4                     | 13.56 | 707001 | 50.0 |
| Naphthalene, 1,2,... | 15.86 | 20.6    | ug/l  | 291379   | 4                     | 13.56 | 707001 | 50.0 |