

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
 Data File : VD061685.D  
 Acq On : 9 Apr 2019 20:01  
 Operator : VA/AP  
 Sample : K2316-02  
 Misc : 5.10a/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20190170-COMP-CS-2

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\_D\METHOD\82D040619S.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         | 1.520       | 6             | 10          | 27           | rVB      | 365147         | 1393056       | 100.00%         | 8.053%        |
| 2         | 1.844       | 40            | 43          | 47           | rVB3     | 7568           | 18313         | 1.31%           | 0.106%        |
| 3         | 3.252       | 181           | 186         | 188          | rBV      | 41296          | 103243        | 7.41%           | 0.597%        |
| 4         | 3.292       | 188           | 190         | 199          | rVB      | 32457          | 75702         | 5.43%           | 0.438%        |
| 5         | 3.420       | 199           | 203         | 207          | rBV      | 24095          | 54327         | 3.90%           | 0.314%        |
| 6         | 3.853       | 243           | 247         | 259          | rBV      | 28671          | 83157         | 5.97%           | 0.481%        |
| 7         | 4.748       | 332           | 338         | 345          | rBV3     | 10266          | 33462         | 2.40%           | 0.193%        |
| 8         | 6.107       | 470           | 476         | 481          | rBV      | 12715          | 38590         | 2.77%           | 0.223%        |
| 9         | 6.176       | 481           | 483         | 491          | rVB3     | 6870           | 19871         | 1.43%           | 0.115%        |
| 10        | 6.963       | 557           | 563         | 570          | rBV      | 273918         | 784623        | 56.32%          | 4.536%        |
| 11        | 7.082       | 570           | 575         | 591          | rVB      | 327968         | 952532        | 68.38%          | 5.506%        |
| 12        | 7.495       | 610           | 617         | 632          | rBB      | 172881         | 494511        | 35.50%          | 2.859%        |
| 13        | 7.741       | 635           | 642         | 648          | rVV      | 14353          | 42299         | 3.04%           | 0.245%        |
| 14        | 8.253       | 688           | 694         | 711          | rBV      | 439071         | 1124902       | 80.75%          | 6.503%        |
| 15        | 9.582       | 823           | 829         | 836          | rBV2     | 32415          | 86385         | 6.20%           | 0.499%        |
| 16        | 9.769       | 841           | 848         | 852          | rBV      | 57327          | 162527        | 11.67%          | 0.939%        |
| 17        | 9.828       | 852           | 854         | 861          | rVB2     | 11445          | 22525         | 1.62%           | 0.130%        |
| 18        | 10.389      | 906           | 911         | 912          | rBV      | 96646          | 191922        | 13.78%          | 1.109%        |
| 19        | 10.439      | 912           | 916         | 925          | rVB      | 518240         | 1290790       | 92.66%          | 7.461%        |
| 20        | 11.226      | 991           | 996         | 1003         | rBV3     | 34556          | 93767         | 6.73%           | 0.542%        |
| 21        | 11.521      | 1019          | 1026        | 1029         | rBB2     | 8851           | 19908         | 1.43%           | 0.115%        |
| 22        | 11.659      | 1036          | 1040        | 1043         | rBV      | 15771          | 33485         | 2.40%           | 0.194%        |
| 23        | 11.856      | 1057          | 1060        | 1064         | rBV      | 11835          | 26553         | 1.91%           | 0.153%        |
| 24        | 12.083      | 1079          | 1083        | 1086         | rBV      | 17665          | 30913         | 2.22%           | 0.179%        |
| 25        | 12.142      | 1086          | 1089        | 1093         | rVV2     | 21253          | 40415         | 2.90%           | 0.234%        |
| 26        | 12.388      | 1110          | 1114        | 1123         | rBV      | 574280         | 1014589       | 72.83%          | 5.865%        |
| 27        | 12.555      | 1128          | 1131        | 1135         | rVB3     | 24620          | 55686         | 4.00%           | 0.322%        |
| 28        | 12.624      | 1135          | 1138        | 1140         | rBV2     | 13791          | 27190         | 1.95%           | 0.157%        |
| 29        | 12.673      | 1140          | 1143        | 1146         | rVV3     | 25550          | 64558         | 4.63%           | 0.373%        |
| 30        | 12.722      | 1146          | 1148        | 1150         | rVB      | 17139          | 22632         | 1.62%           | 0.131%        |
| 31        | 12.772      | 1150          | 1153        | 1157         | rVB2     | 25487          | 40439         | 2.90%           | 0.234%        |
| 32        | 12.919      | 1164          | 1168        | 1174         | rVB4     | 29072          | 83243         | 5.98%           | 0.481%        |
| 33        | 13.018      | 1174          | 1178        | 1181         | rBV2     | 34355          | 79889         | 5.73%           | 0.462%        |
| 34        | 13.067      | 1181          | 1183        | 1185         | rVV      | 22007          | 40427         | 2.90%           | 0.234%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
 Data File : VD061685.D  
 Acq On : 9 Apr 2019 20:01  
 Operator : VA/AP  
 Sample : K2316-02  
 Misc : 5.10a/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20190170-COMP-CS-2

## 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\_D\METHOD\82D040619S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.116 | 1185 | 1188 | 1190 | rVV  | 246033 | 429990 | 30.87% | 2.486% |
| 36 | 13.165 | 1190 | 1193 | 1196 | rVV2 | 72145  | 154469 | 11.09% | 0.893% |
| 37 | 13.234 | 1196 | 1200 | 1203 | rVV3 | 71582  | 161816 | 11.62% | 0.935% |
| 38 | 13.284 | 1203 | 1205 | 1206 | rVV2 | 13786  | 22645  | 1.63%  | 0.131% |
| 39 | 13.343 | 1206 | 1211 | 1214 | rVV4 | 58193  | 180949 | 12.99% | 1.046% |
| 40 | 13.421 | 1214 | 1219 | 1222 | rVV  | 108524 | 180592 | 12.96% | 1.044% |
| 41 | 13.490 | 1222 | 1226 | 1227 | rVV2 | 82453  | 157290 | 11.29% | 0.909% |
| 42 | 13.520 | 1227 | 1229 | 1232 | rVV2 | 94103  | 160657 | 11.53% | 0.929% |
| 43 | 13.569 | 1232 | 1234 | 1239 | rVV2 | 347394 | 690020 | 49.53% | 3.989% |
| 44 | 13.667 | 1241 | 1244 | 1247 | rVV2 | 99607  | 218715 | 15.70% | 1.264% |
| 45 | 13.727 | 1247 | 1250 | 1253 | rVV  | 199743 | 345088 | 24.77% | 1.995% |
| 46 | 13.776 | 1253 | 1255 | 1258 | rVV2 | 157757 | 225686 | 16.20% | 1.305% |
| 47 | 13.855 | 1258 | 1263 | 1266 | rVV2 | 92570  | 217569 | 15.62% | 1.258% |
| 48 | 13.904 | 1266 | 1268 | 1270 | rVV2 | 58458  | 101907 | 7.32%  | 0.589% |
| 49 | 13.943 | 1270 | 1272 | 1273 | rVV2 | 49661  | 77283  | 5.55%  | 0.447% |
| 50 | 13.982 | 1273 | 1276 | 1278 | rVV  | 109881 | 219457 | 15.75% | 1.269% |
| 51 | 14.022 | 1278 | 1280 | 1283 | rVV  | 91983  | 164479 | 11.81% | 0.951% |
| 52 | 14.071 | 1283 | 1285 | 1288 | rVV  | 65008  | 103459 | 7.43%  | 0.598% |
| 53 | 14.140 | 1288 | 1292 | 1295 | rVV2 | 73462  | 183779 | 13.19% | 1.062% |
| 54 | 14.209 | 1295 | 1299 | 1301 | rVV2 | 95301  | 209798 | 15.06% | 1.213% |
| 55 | 14.238 | 1301 | 1302 | 1308 | rVV2 | 87499  | 192800 | 13.84% | 1.114% |
| 56 | 14.337 | 1308 | 1312 | 1314 | rVV2 | 49966  | 94974  | 6.82%  | 0.549% |
| 57 | 14.386 | 1314 | 1317 | 1318 | rVV3 | 37098  | 73540  | 5.28%  | 0.425% |
| 58 | 14.425 | 1318 | 1321 | 1326 | rVV2 | 179242 | 399902 | 28.71% | 2.312% |
| 59 | 14.534 | 1329 | 1332 | 1337 | rVV  | 368987 | 573354 | 41.16% | 3.314% |
| 60 | 14.613 | 1337 | 1340 | 1341 | rVV  | 148335 | 212711 | 15.27% | 1.230% |
| 61 | 14.642 | 1341 | 1343 | 1347 | rVV2 | 94549  | 166185 | 11.93% | 0.961% |
| 62 | 14.721 | 1347 | 1351 | 1352 | rVV2 | 23809  | 56250  | 4.04%  | 0.325% |
| 63 | 14.740 | 1352 | 1353 | 1355 | rVV2 | 32104  | 50098  | 3.60%  | 0.290% |
| 64 | 14.780 | 1355 | 1357 | 1359 | rVV2 | 68901  | 102884 | 7.39%  | 0.595% |
| 65 | 14.819 | 1359 | 1361 | 1367 | rVV6 | 64916  | 171589 | 12.32% | 0.992% |
| 66 | 14.908 | 1367 | 1370 | 1372 | rVV2 | 72498  | 139318 | 10.00% | 0.805% |
| 67 | 14.957 | 1372 | 1375 | 1380 | rVV4 | 65043  | 159962 | 11.48% | 0.925% |
| 68 | 15.036 | 1380 | 1383 | 1385 | rVV4 | 44597  | 105630 | 7.58%  | 0.611% |
| 69 | 15.124 | 1388 | 1392 | 1399 | rVV3 | 143372 | 333847 | 23.97% | 1.930% |
| 70 | 15.233 | 1399 | 1403 | 1406 | rVV5 | 25282  | 76327  | 5.48%  | 0.441% |
| 71 | 15.302 | 1406 | 1410 | 1412 | rVV3 | 46342  | 91371  | 6.56%  | 0.528% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
 Data File : VD061685.D  
 Acq On : 9 Apr 2019 20:01  
 Operator : VA/AP  
 Sample : K2316-02  
 Misc : 5.10g/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20190170-COMP-CS-2

## 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\_D\METHOD\82D040619S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 15.331 | 1412 | 1413 | 1414 | rVV  | 28970  | 32873  | 2.36%  | 0.190% |
| 73 | 15.361 | 1414 | 1416 | 1418 | rVV2 | 35845  | 53146  | 3.82%  | 0.307% |
| 74 | 15.390 | 1418 | 1419 | 1422 | rVV3 | 24006  | 43278  | 3.11%  | 0.250% |
| 75 | 15.439 | 1422 | 1424 | 1427 | rVV3 | 54778  | 117004 | 8.40%  | 0.676% |
| 76 | 15.489 | 1427 | 1429 | 1431 | rVV2 | 61976  | 92423  | 6.63%  | 0.534% |
| 77 | 15.518 | 1431 | 1432 | 1435 | rVV3 | 11928  | 21829  | 1.57%  | 0.126% |
| 78 | 15.607 | 1438 | 1441 | 1443 | rVV4 | 14325  | 31780  | 2.28%  | 0.184% |
| 79 | 15.646 | 1443 | 1445 | 1446 | rVV2 | 11379  | 14595  | 1.05%  | 0.084% |
| 80 | 15.686 | 1446 | 1449 | 1451 | rVV  | 28995  | 58553  | 4.20%  | 0.338% |
| 81 | 15.794 | 1454 | 1460 | 1466 | rVB3 | 72251  | 201240 | 14.45% | 1.163% |
| 82 | 15.912 | 1469 | 1472 | 1477 | rBV5 | 10429  | 18811  | 1.35%  | 0.109% |
| 83 | 16.060 | 1484 | 1487 | 1491 | rVB4 | 15447  | 30135  | 2.16%  | 0.174% |
| 84 | 16.158 | 1493 | 1497 | 1501 | rVV3 | 21638  | 46779  | 3.36%  | 0.270% |
| 85 | 16.237 | 1501 | 1505 | 1510 | rVB7 | 14617  | 36491  | 2.62%  | 0.211% |
| 86 | 16.306 | 1510 | 1512 | 1517 | rVB4 | 10133  | 21396  | 1.54%  | 0.124% |
| 87 | 16.434 | 1522 | 1525 | 1528 | rVB2 | 9109   | 16429  | 1.18%  | 0.095% |
| 88 | 16.532 | 1532 | 1535 | 1540 | rVB  | 104656 | 140476 | 10.08% | 0.812% |
| 89 | 16.729 | 1552 | 1555 | 1559 | rBV  | 345940 | 469469 | 33.70% | 2.714% |

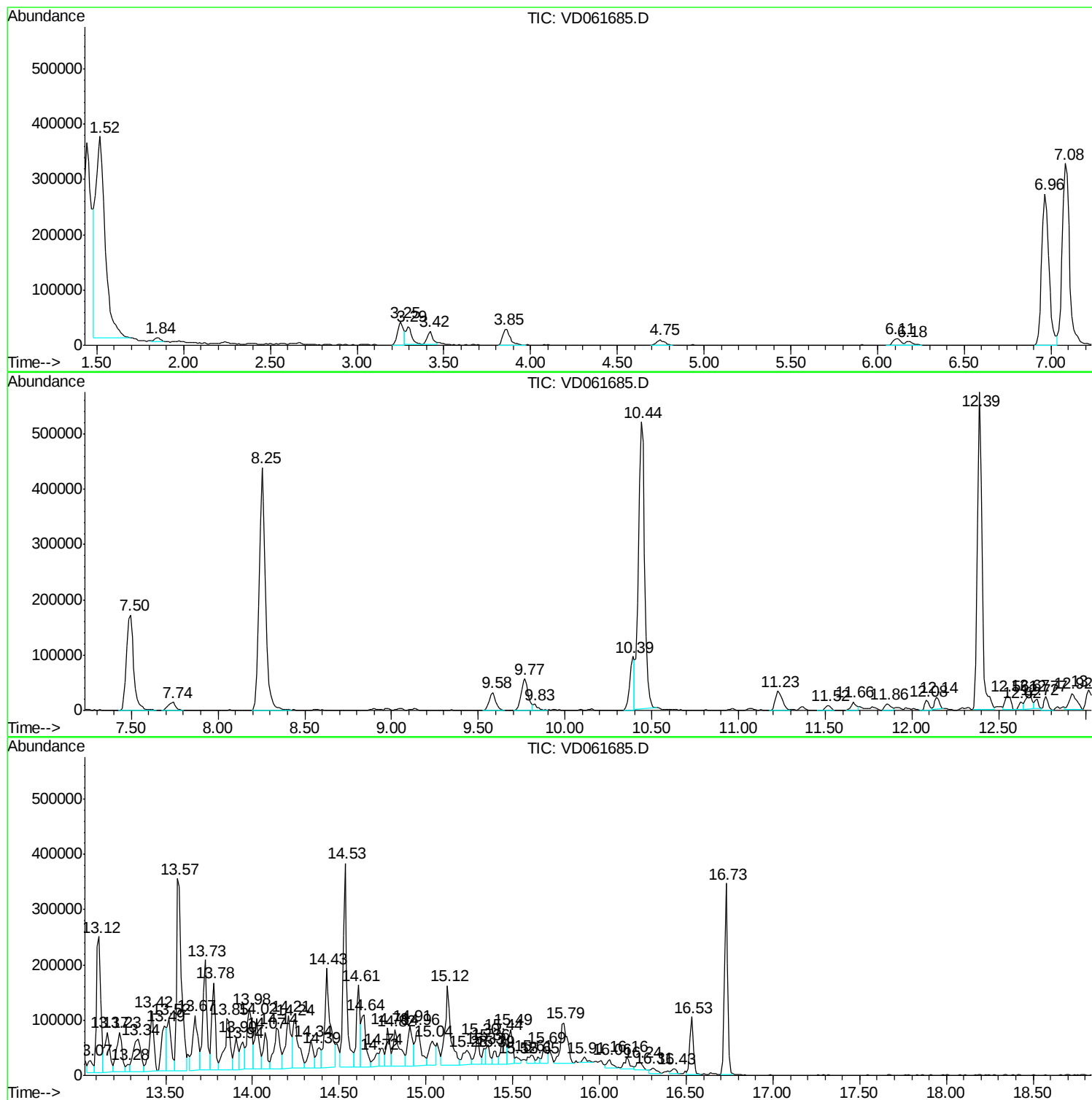
Sum of corrected areas: 17299528

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

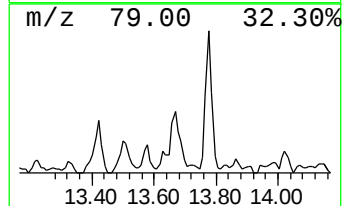
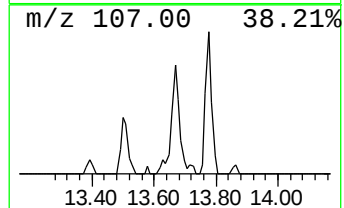
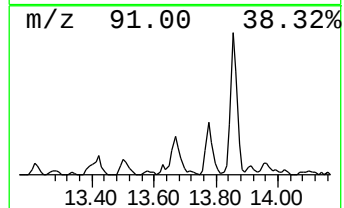
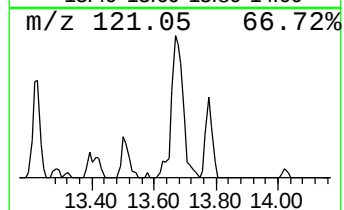
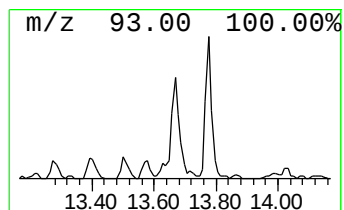
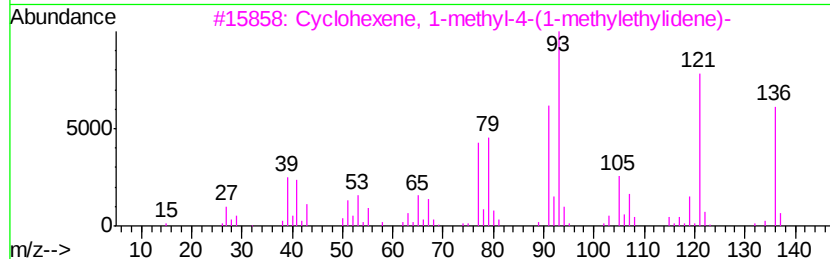
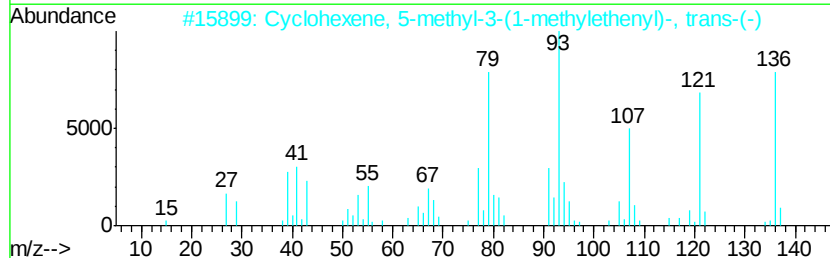
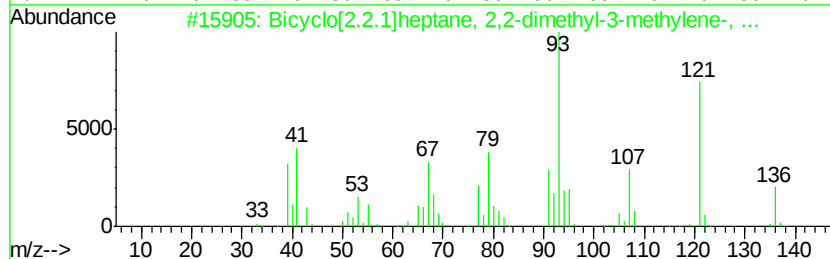
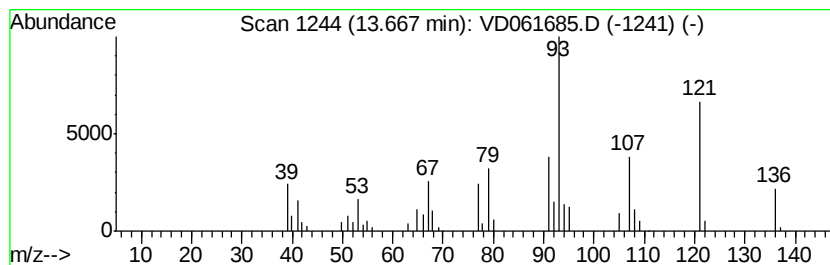
Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.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 8

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.67   | 19.07 ug/l | 218715                              | 1,4-Dichlorobenzene-d4 | 14.53          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 C10H16             | 005794-04-7 86 |
| 2       |            | Cyclohexene, 5-methyl-3-(1-methy... | 136 C10H16             | 056816-08-1 76 |
| 3       |            | Cyclohexene, 1-methyl-4-(1-methy... | 136 C10H16             | 000586-62-9 74 |
| 4       |            | 2-Carene                            | 136 C10H16             | 000554-61-0 72 |
| 5       |            | (+)-4-Carene                        | 136 C10H16             | 029050-33-7 72 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

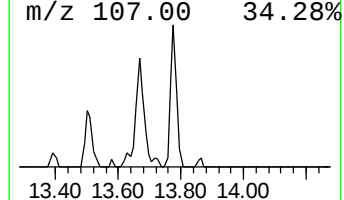
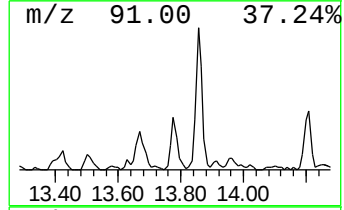
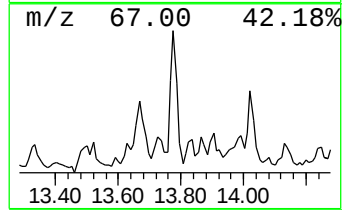
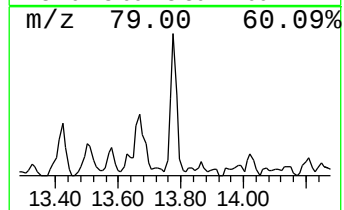
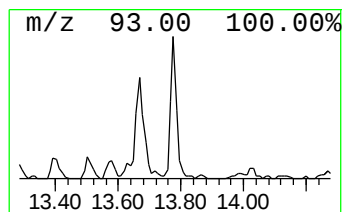
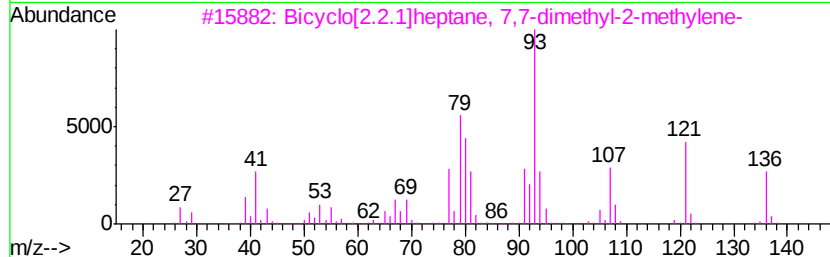
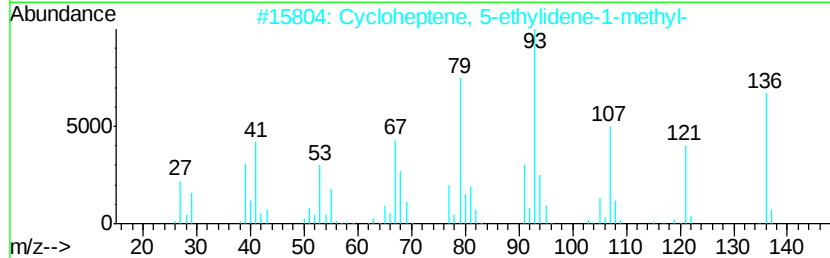
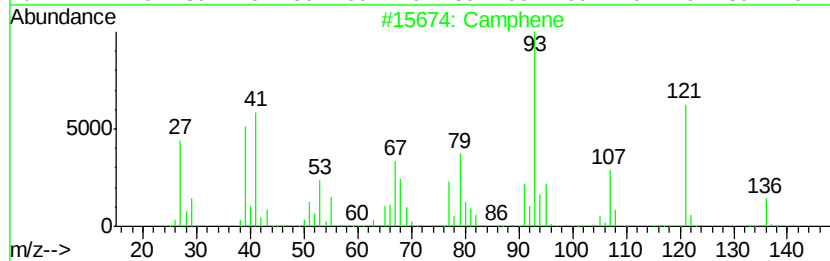
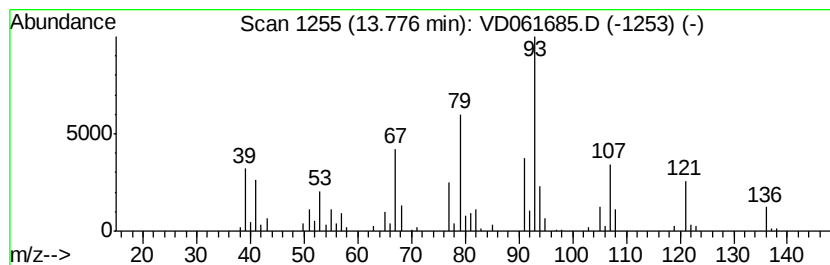
Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Camphene Concentration Rank 6

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.           |
|---------|-------------------------------------|--------------|------------------------|----------------|
| 13.78   | 19.68 ug/l                          | 225686       | 1,4-Dichlorobenzene-d4 | 14.53          |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | Camphene                            |              | 136 C10H16             | 000079-92-5 80 |
| 2       | Cycloheptene, 5-ethylidene-1-met... |              | 136 C10H16             | 015402-94-5 80 |
| 3       | Bicyclo[2.2.1]heptane, 7,7-dimet... |              | 136 C10H16             | 000471-84-1 68 |
| 4       | 1,3,6-Heptatriene, 2,5,5-trimethyl- |              | 136 C10H16             | 029548-02-5 58 |
| 5       | Spiro[2.4]heptane, 1,5-dimethyl-... |              | 136 C10H16             | 062238-24-8 58 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

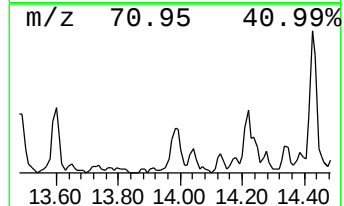
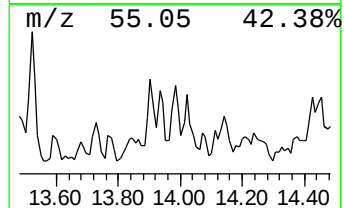
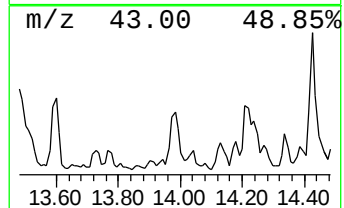
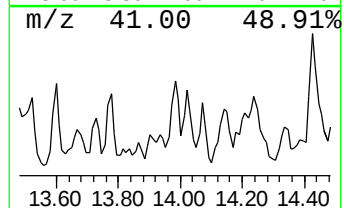
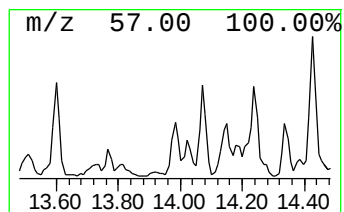
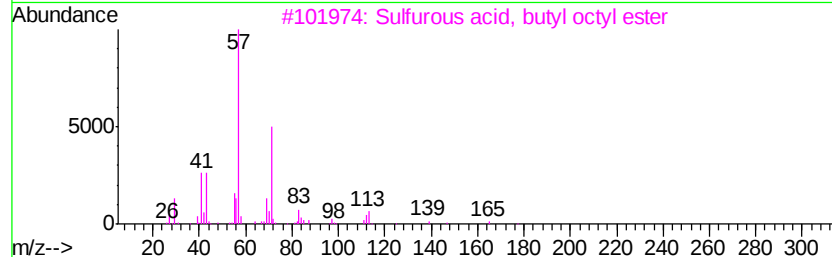
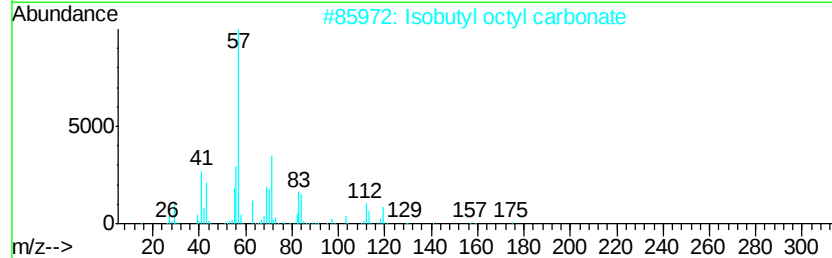
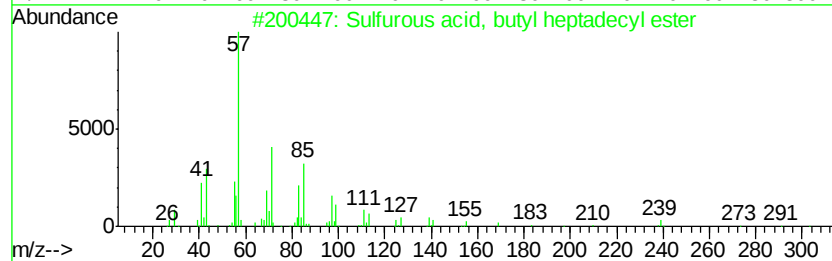
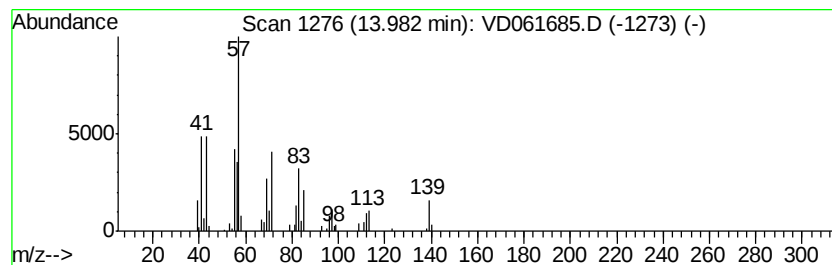
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Sulfurous acid, butyl hepta... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.98 | 19.14 ug/l | 219457 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, butyl heptadecyl... | 376 | C21H44O3S | 1000309-18-4 | 59   |
| 2    |    | Isobutyl octyl carbonate            | 230 | C13H26O3  | 1000372-74-6 | 59   |
| 3    |    | Sulfurous acid, butyl octyl ester   | 250 | C12H26O3S | 1000309-17-5 | 50   |
| 4    |    | Sulfurous acid, decyl 2-ethylhex... | 334 | C18H38O3S | 1000309-19-3 | 47   |
| 5    |    | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

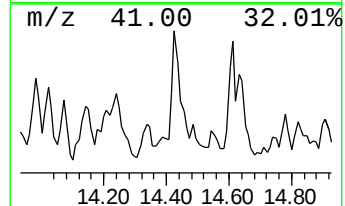
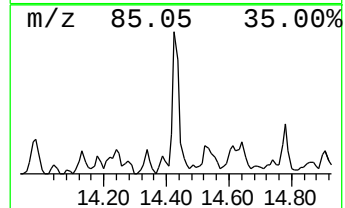
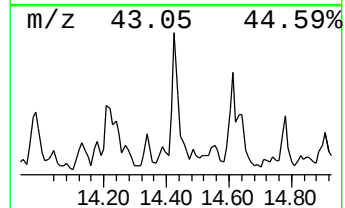
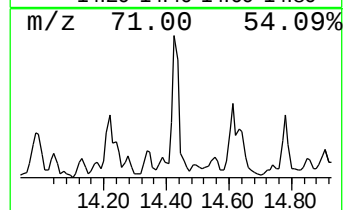
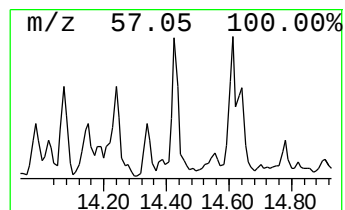
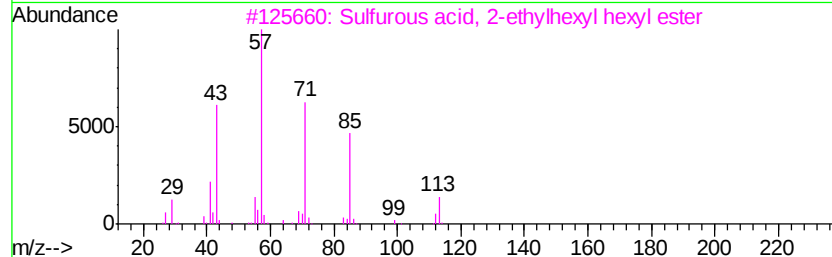
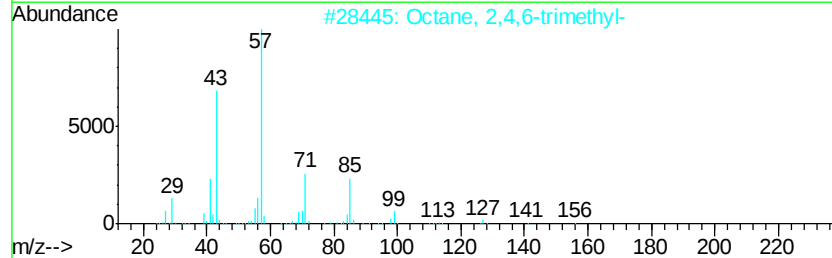
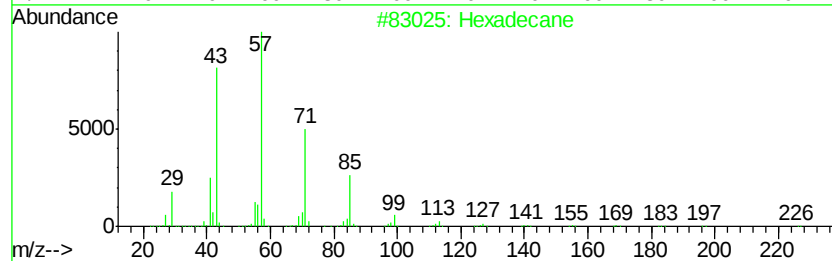
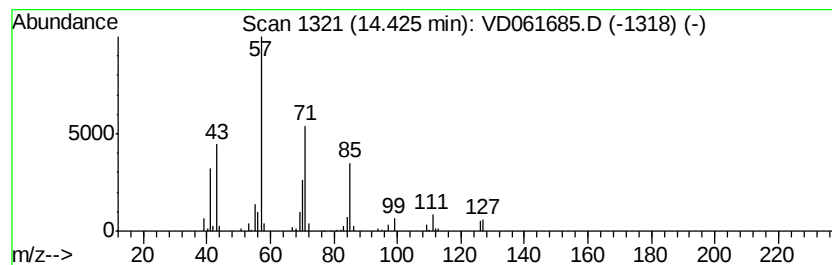
Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

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

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

| R.T.    | EstConc                             | Area          | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|---------------|------------------------|-----------|
| 14.43   | 34.87 ug/l                          | 399902        | 1,4-Dichlorobenzene-d4 | 14.53     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm             | CAS# Qual |
| 1       | Hexadecane                          | 226 C16H34    | 000544-76-3            | 59        |
| 2       | Octane, 2,4,6-trimethyl-            | 156 C11H24    | 062016-37-9            | 59        |
| 3       | Sulfurous acid, 2-ethylhexyl hex... | 278 C14H30O3S | 1000309-20-2           | 53        |
| 4       | Sulfurous acid, decyl 2-ethylhex... | 334 C18H38O3S | 1000309-19-3           | 53        |
| 5       | Nonane, 4-methyl-5-propyl-          | 184 C13H28    | 062185-55-1            | 53        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

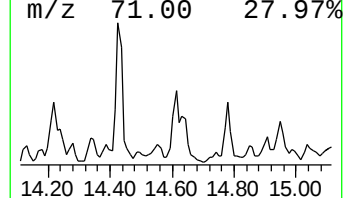
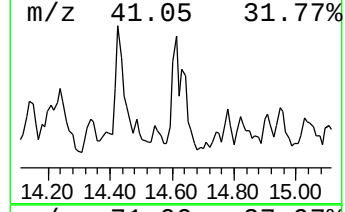
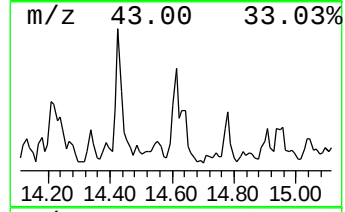
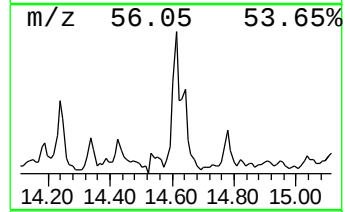
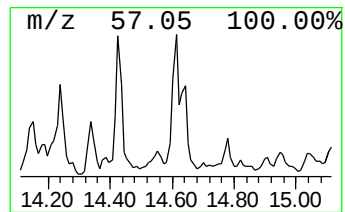
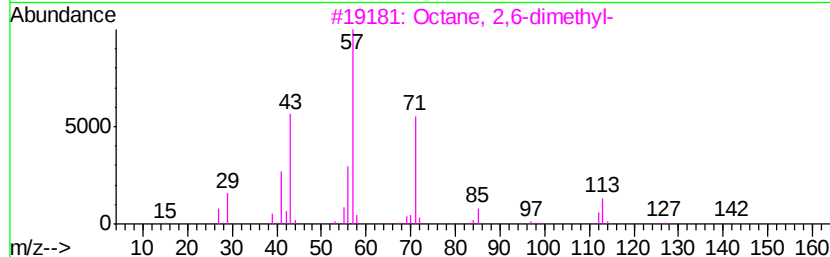
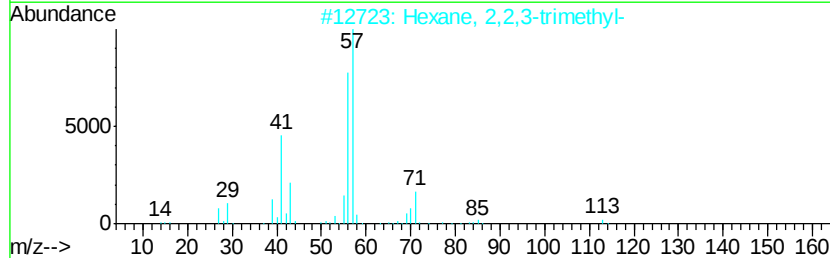
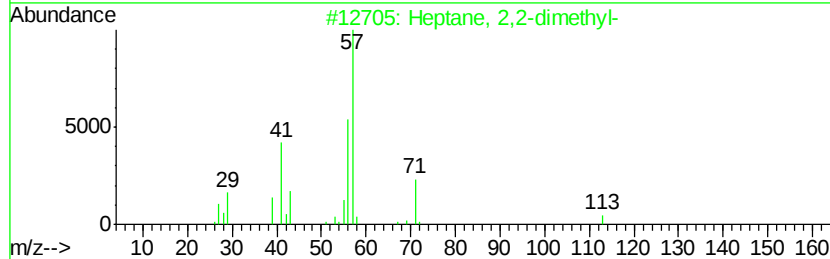
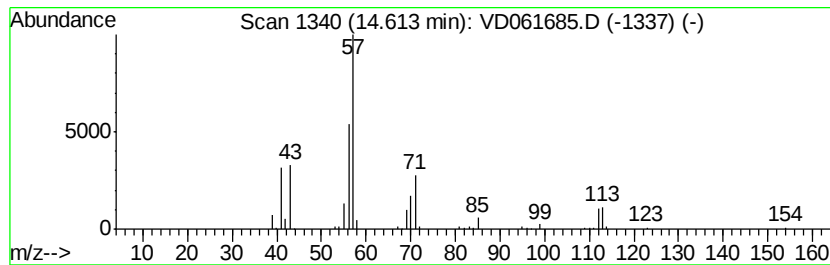
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Heptane, 2,2-dimethyl- Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.61 | 18.55 ug/l | 212711 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2,2-dimethyl-   | 128 | C9H20   | 001071-26-7 | 53   |
| 2    |    | Hexane, 2,2,3-trimethyl- | 128 | C9H20   | 016747-25-4 | 53   |
| 3    |    | Octane, 2,6-dimethyl-    | 142 | C10H22  | 002051-30-1 | 50   |
| 4    |    | Hexane, 2,2,5-trimethyl- | 128 | C9H20   | 003522-94-9 | 45   |
| 5    |    | 1-Heptene, 2-methyl-     | 112 | C8H16   | 015870-10-7 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

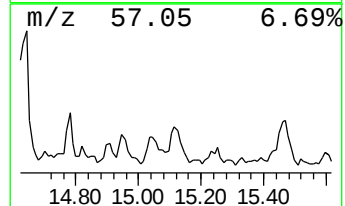
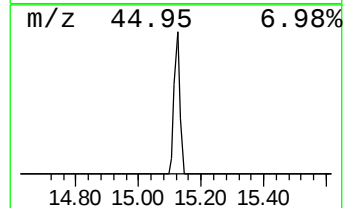
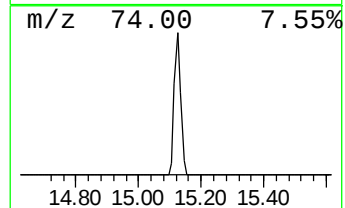
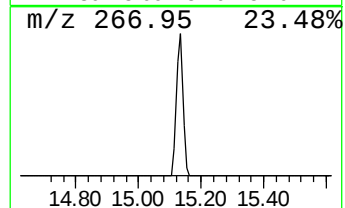
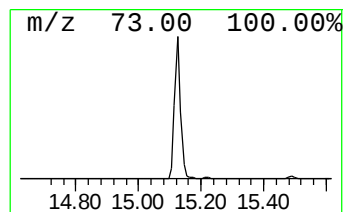
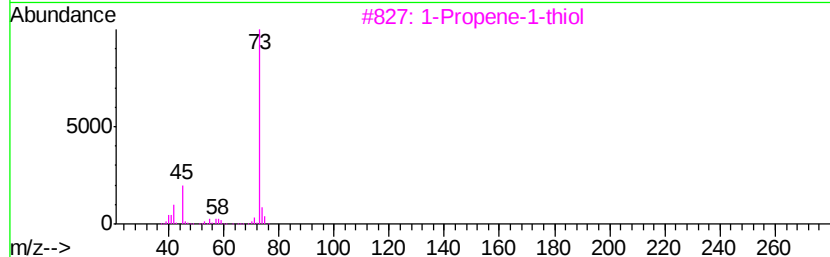
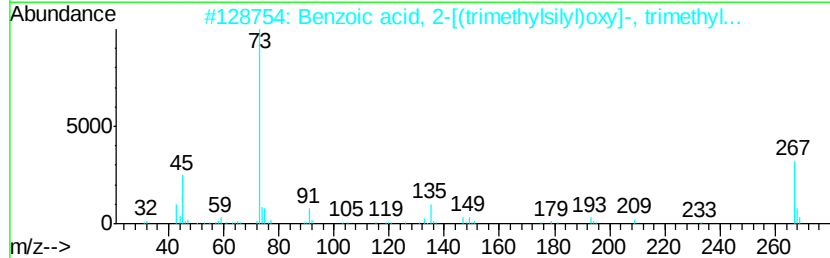
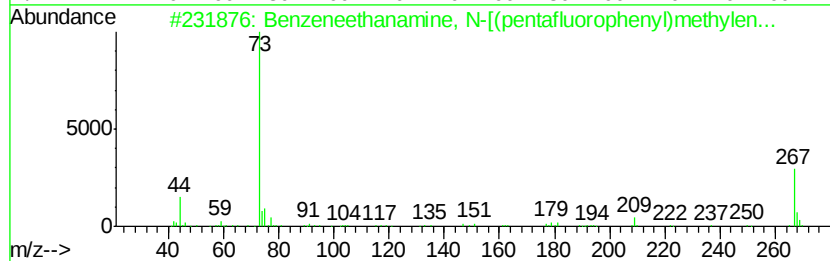
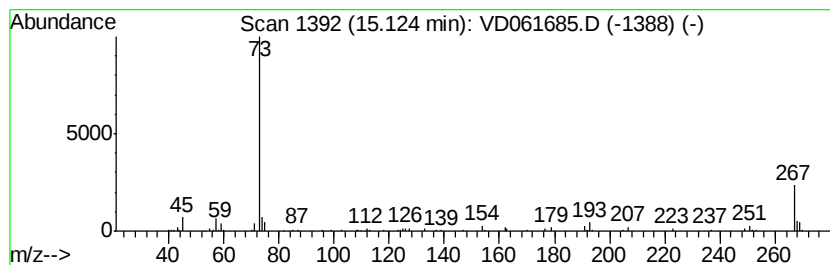
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 unknown15.12 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.12 | 29.11 ug/l | 333847 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                          | MW  | MolForm        | CAS#         | Qual |
|------|----|---------------------------------------|-----|----------------|--------------|------|
| 1    | 5  | Benzenethanamine, N-[(pentafluoro...] | 475 | C21H26F5N02Si2 | 055429-85-1  | 45   |
| 2    |    | Benzoic acid, 2-[(trimethylsilyl)...  | 282 | C13H22O3Si2    | 003789-85-3  | 38   |
| 3    |    | 1-Propene-1-thiol                     | 74  | C3H6S          | 000925-89-3  | 12   |
| 4    |    | 1,4-Cyclohexadiene, 1,3,6-tris(t...   | 296 | C15H32Si3      | 1000150-10-8 | 12   |
| 5    |    | 11H-Dibenzo[b,e][1,4]diazepin-11...   | 267 | C16H17N3O      | 013450-73-2  | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

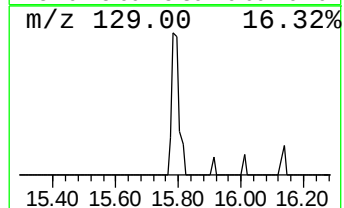
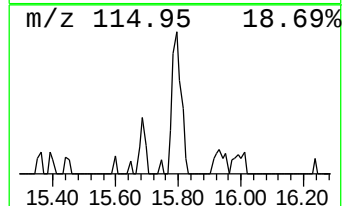
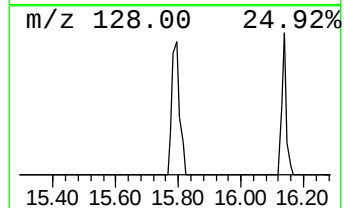
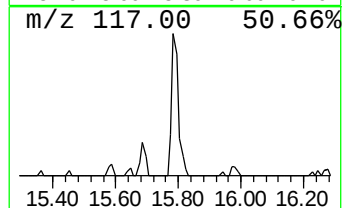
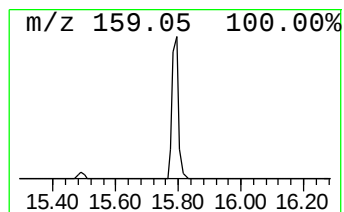
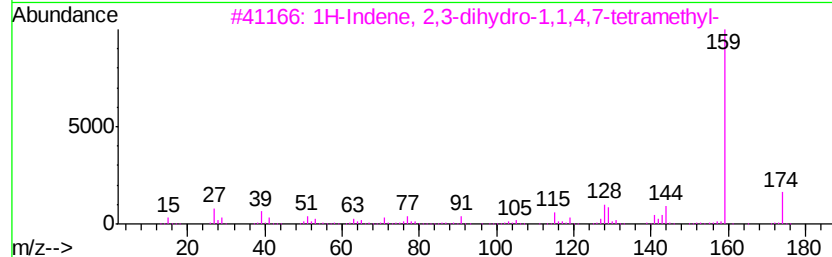
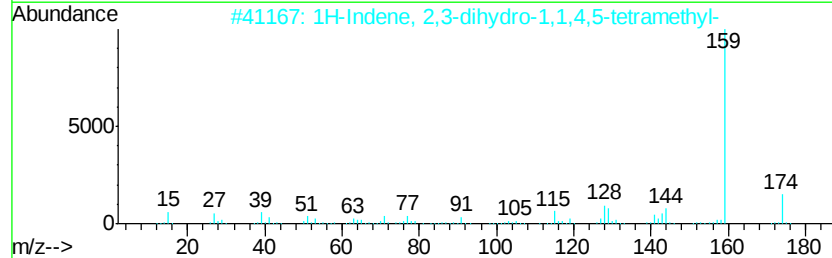
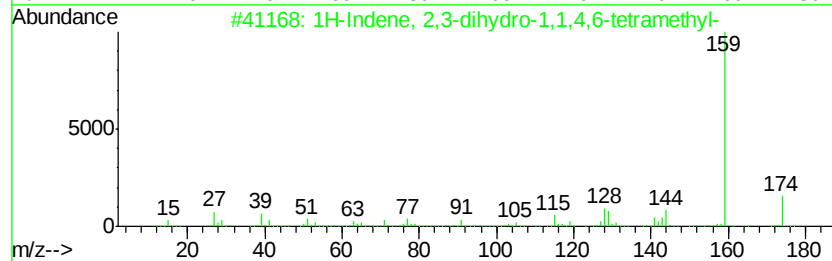
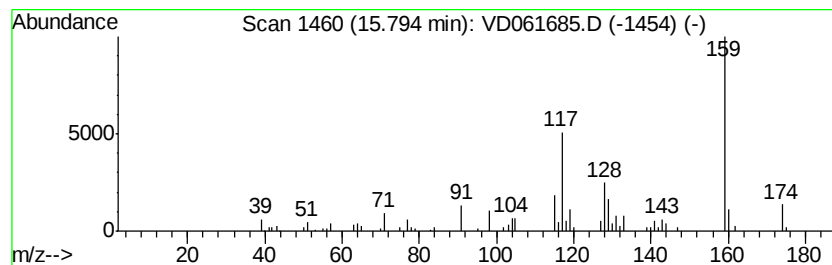
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.79 | 17.55 ug/l | 201240 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,1,4,6-t... | 174 | C13H18  | 000941-60-6 | 70   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,1,4,5-t... | 174 | C13H18  | 016204-57-2 | 70   |
| 3    |    | 1H-Indene, 2,3-dihydro-1,1,4,7-t... | 174 | C13H18  | 001078-04-2 | 70   |
| 4    |    | Indan, 1,1,6,7-tetramethyl-         | 174 | C13H18  | 016204-58-3 | 70   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18  | 000475-03-6 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleID :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260

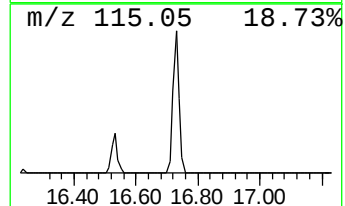
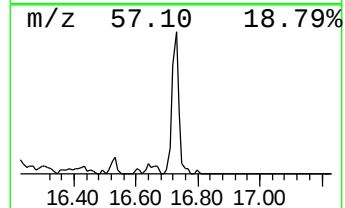
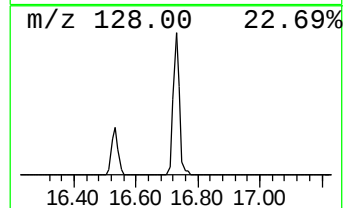
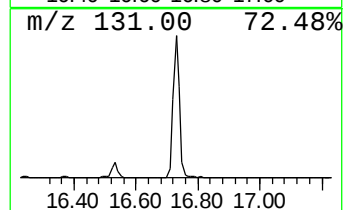
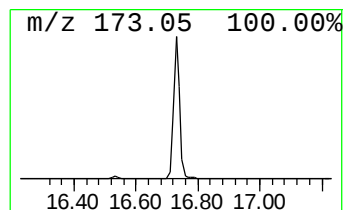
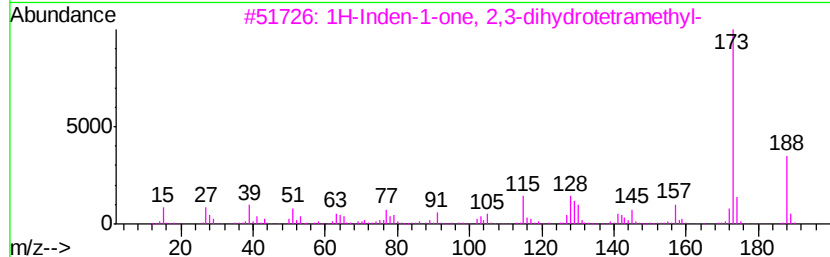
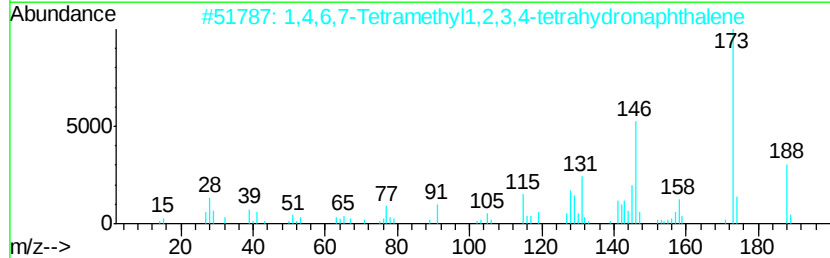
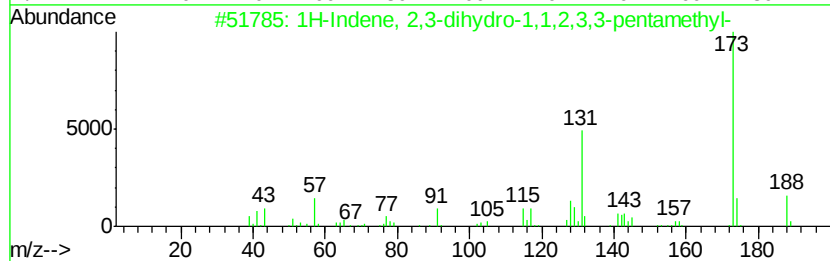
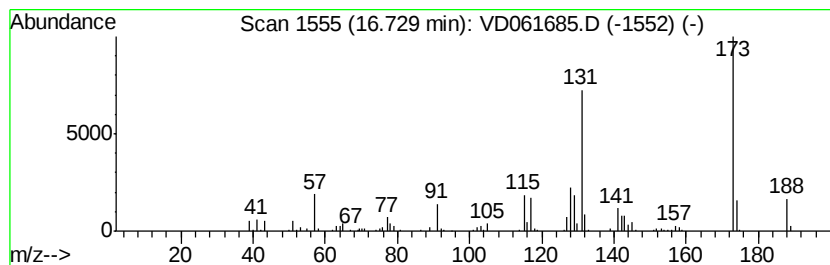
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.73 | 40.94 ug/l | 469469 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                                       | MW  | MolForm | CAS#         | Qual |
|------|----|----------------------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,1,2,3,3...                | 188 | C14H20  | 001203-17-4  | 95   |
| 2    |    | 1,4,6,7-Tetramethyl1,2,3,4-tetra...                | 188 | C14H20  | 1000113-61-3 | 59   |
| 3    |    | 1H-Inden-1-one, 2,3-dihydro-1,2,3,4-tetra...       | 188 | C13H16O | 089907-33-5  | 58   |
| 4    |    | 1,1,4,5,6-pentamethyl-2,3-dihydro-1,2,3,4-tetra... | 188 | C14H20  | 1000374-13-8 | 47   |
| 5    |    | Naphthalene, 6-(1,1-dimethylethyl)-                | 188 | C14H20  | 042044-26-8  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD040919\  
Data File : VD061685.D  
Acq On : 9 Apr 2019 20:01  
Operator : VA/AP  
Sample : K2316-02  
Misc : 5.10g/5ml/MSVOA\_D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190170-COMP-CS-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.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 |
| Bicyclo[2.2.1]hep... | 13.67 | 19.1    | ug/l  | 218715   | 4                     | 14.53 | 573354 | 50.0 |
| Camphene             | 13.78 | 19.7    | ug/l  | 225686   | 4                     | 14.53 | 573354 | 50.0 |
| Sulfurous acid, b... | 13.98 | 19.1    | ug/l  | 219457   | 4                     | 14.53 | 573354 | 50.0 |
| Hexadecane           | 14.43 | 34.9    | ug/l  | 399902   | 4                     | 14.53 | 573354 | 50.0 |
| Heptane, 2,2-dime... | 14.61 | 18.6    | ug/l  | 212711   | 4                     | 14.53 | 573354 | 50.0 |
| unknown15.12         | 15.12 | 29.1    | ug/l  | 333847   | 4                     | 14.53 | 573354 | 50.0 |
| 1H-Indene, 2,3-di... | 15.79 | 17.6    | ug/l  | 201240   | 4                     | 14.53 | 573354 | 50.0 |
| 1H-Indene, 2,3-di... | 16.73 | 40.9    | ug/l  | 469469   | 4                     | 14.53 | 573354 | 50.0 |