

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
 Data File : VD066139.D  
 Acq On : 06 Aug 2020 17:22  
 Operator : VA/SY  
 Sample : L3563-01  
 Misc : 2.43G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-30860

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\82D080520S.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         | 2.315       | 58            | 67          | 76           | rBV      | 405686         | 626261        | 2.15%           | 0.374%        |
| 2         | 4.150       | 367           | 379         | 409          | rBV      | 3052422        | 8632591       | 29.63%          | 5.149%        |
| 3         | 4.791       | 477           | 488         | 502          | rVB2     | 125868         | 432816        | 1.49%           | 0.258%        |
| 4         | 5.132       | 525           | 546         | 556          | rBV      | 571047         | 2425151       | 8.32%           | 1.446%        |
| 5         | 5.220       | 556           | 561         | 576          | rVB      | 121605         | 373847        | 1.28%           | 0.223%        |
| 6         | 6.938       | 837           | 853         | 861          | rBV5     | 218441         | 731626        | 2.51%           | 0.436%        |
| 7         | 7.026       | 861           | 868         | 880          | rVB      | 115565         | 341279        | 1.17%           | 0.204%        |
| 8         | 7.208       | 888           | 899         | 910          | rBV      | 146114         | 402522        | 1.38%           | 0.240%        |
| 9         | 7.732       | 972           | 988         | 1001         | rBV      | 134626         | 383768        | 1.32%           | 0.229%        |
| 10        | 7.955       | 1007          | 1026        | 1037         | rBV3     | 1921924        | 5883373       | 20.20%          | 3.509%        |
| 11        | 8.061       | 1037          | 1044        | 1054         | rVB2     | 632711         | 1537926       | 5.28%           | 0.917%        |
| 12        | 8.185       | 1055          | 1065        | 1082         | rBV      | 2324655        | 5507544       | 18.91%          | 3.285%        |
| 13        | 8.332       | 1082          | 1090        | 1101         | rVB4     | 207564         | 581260        | 2.00%           | 0.347%        |
| 14        | 8.450       | 1101          | 1110        | 1117         | rBV5     | 395761         | 1054449       | 3.62%           | 0.629%        |
| 15        | 8.526       | 1117          | 1123        | 1128         | rVV3     | 194775         | 440994        | 1.51%           | 0.263%        |
| 16        | 8.597       | 1128          | 1135        | 1144         | rVB2     | 284402         | 738549        | 2.54%           | 0.440%        |
| 17        | 8.720       | 1146          | 1156        | 1164         | rBV      | 2194284        | 4455521       | 15.29%          | 2.657%        |
| 18        | 8.861       | 1174          | 1180        | 1191         | rVB      | 493581         | 983831        | 3.38%           | 0.587%        |
| 19        | 9.349       | 1248          | 1263        | 1270         | rBV2     | 1524886        | 4027444       | 13.82%          | 2.402%        |
| 20        | 9.420       | 1270          | 1275        | 1288         | rVB5     | 216247         | 775346        | 2.66%           | 0.462%        |
| 21        | 9.532       | 1288          | 1294        | 1301         | rBV2     | 312053         | 585479        | 2.01%           | 0.349%        |
| 22        | 9.626       | 1301          | 1310        | 1316         | rBV2     | 173532         | 370729        | 1.27%           | 0.221%        |
| 23        | 9.767       | 1329          | 1334        | 1347         | rVB3     | 174681         | 402132        | 1.38%           | 0.240%        |
| 24        | 9.914       | 1350          | 1359        | 1363         | rBV2     | 143254         | 298700        | 1.03%           | 0.178%        |
| 25        | 9.973       | 1363          | 1369        | 1383         | rVB2     | 823661         | 2026499       | 6.96%           | 1.209%        |
| 26        | 10.114      | 1383          | 1393        | 1405         | rBV2     | 619924         | 1495148       | 5.13%           | 0.892%        |
| 27        | 10.226      | 1406          | 1412        | 1423         | rBV2     | 504824         | 1068339       | 3.67%           | 0.637%        |
| 28        | 10.338      | 1423          | 1431        | 1435         | rBV      | 1653883        | 3217271       | 11.04%          | 1.919%        |
| 29        | 10.402      | 1435          | 1442        | 1449         | rVV      | 15359531       | 29132701      | 100.00%         | 17.376%       |
| 30        | 10.461      | 1449          | 1452        | 1455         | rVV2     | 266492         | 437910        | 1.50%           | 0.261%        |
| 31        | 10.520      | 1455          | 1462        | 1468         | rVB      | 2042842        | 3797236       | 13.03%          | 2.265%        |
| 32        | 10.585      | 1468          | 1473        | 1478         | rBV      | 440546         | 739317        | 2.54%           | 0.441%        |
| 33        | 10.679      | 1484          | 1489        | 1497         | rVB2     | 444101         | 887715        | 3.05%           | 0.529%        |
| 34        | 10.773      | 1497          | 1505        | 1512         | rBV2     | 610782         | 1278131       | 4.39%           | 0.762%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
 Data File : VD066139.D  
 Acq On : 06 Aug 2020 17:22  
 Operator : VA/SY  
 Sample : L3563-01  
 Misc : 2.43G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-30860

## 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\82D080520S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.861 | 1516 | 1520 | 1527 | rVB2 | 258015  | 448504  | 1.54%  | 0.268% |
| 36 | 10.955 | 1527 | 1536 | 1540 | rBV  | 403553  | 797137  | 2.74%  | 0.475% |
| 37 | 11.120 | 1561 | 1564 | 1568 | rBV2 | 216829  | 294804  | 1.01%  | 0.176% |
| 38 | 11.191 | 1568 | 1576 | 1581 | rVV  | 759598  | 1469657 | 5.04%  | 0.877% |
| 39 | 11.243 | 1581 | 1585 | 1591 | rVB  | 584793  | 1022263 | 3.51%  | 0.610% |
| 40 | 11.355 | 1598 | 1604 | 1608 | rBV2 | 340450  | 599993  | 2.06%  | 0.358% |
| 41 | 11.432 | 1608 | 1617 | 1628 | rVB3 | 862852  | 2464176 | 8.46%  | 1.470% |
| 42 | 11.532 | 1628 | 1634 | 1639 | rBV  | 664771  | 1103059 | 3.79%  | 0.658% |
| 43 | 11.643 | 1648 | 1653 | 1664 | rVB  | 588254  | 1081620 | 3.71%  | 0.645% |
| 44 | 11.743 | 1664 | 1670 | 1679 | rVV  | 1733297 | 3385445 | 11.62% | 2.019% |
| 45 | 11.855 | 1679 | 1689 | 1699 | rVV4 | 3101562 | 7568149 | 25.98% | 4.514% |
| 46 | 11.932 | 1699 | 1702 | 1709 | rVB  | 350958  | 560457  | 1.92%  | 0.334% |
| 47 | 12.179 | 1732 | 1744 | 1752 | rBV5 | 1182876 | 3013142 | 10.34% | 1.797% |
| 48 | 12.279 | 1752 | 1761 | 1766 | rVV5 | 370768  | 846719  | 2.91%  | 0.505% |
| 49 | 12.355 | 1770 | 1774 | 1777 | rVV2 | 314873  | 543011  | 1.86%  | 0.324% |
| 50 | 12.396 | 1778 | 1781 | 1791 | rVB4 | 320811  | 661041  | 2.27%  | 0.394% |
| 51 | 12.637 | 1817 | 1822 | 1826 | rBV  | 412261  | 673009  | 2.31%  | 0.401% |
| 52 | 12.743 | 1832 | 1840 | 1845 | rBV5 | 139952  | 344579  | 1.18%  | 0.206% |
| 53 | 12.820 | 1846 | 1853 | 1858 | rVB  | 283256  | 625235  | 2.15%  | 0.373% |
| 54 | 12.885 | 1858 | 1864 | 1868 | rBV  | 545020  | 1018907 | 3.50%  | 0.608% |
| 55 | 12.955 | 1872 | 1876 | 1882 | rVB2 | 601503  | 1066110 | 3.66%  | 0.636% |
| 56 | 13.273 | 1924 | 1930 | 1935 | rBV  | 588724  | 934883  | 3.21%  | 0.558% |
| 57 | 13.420 | 1948 | 1955 | 1959 | rBV8 | 142762  | 372941  | 1.28%  | 0.222% |
| 58 | 13.579 | 1977 | 1982 | 1985 | rBV  | 290641  | 507730  | 1.74%  | 0.303% |
| 59 | 13.608 | 1985 | 1987 | 1992 | rVB  | 336018  | 466687  | 1.60%  | 0.278% |
| 60 | 13.679 | 1992 | 1999 | 2006 | rBV  | 1432442 | 2264667 | 7.77%  | 1.351% |
| 61 | 13.773 | 2006 | 2015 | 2019 | rVV2 | 825069  | 1732069 | 5.95%  | 1.033% |
| 62 | 13.820 | 2019 | 2023 | 2033 | rVB4 | 1080410 | 2400758 | 8.24%  | 1.432% |
| 63 | 13.902 | 2033 | 2037 | 2042 | rVB3 | 267826  | 387979  | 1.33%  | 0.231% |
| 64 | 13.979 | 2044 | 2050 | 2055 | rVV  | 546046  | 906361  | 3.11%  | 0.541% |
| 65 | 14.037 | 2055 | 2060 | 2062 | rVV  | 1147604 | 1757065 | 6.03%  | 1.048% |
| 66 | 14.067 | 2062 | 2065 | 2070 | rVV  | 1331726 | 2086359 | 7.16%  | 1.244% |
| 67 | 14.126 | 2070 | 2075 | 2081 | rVB  | 2740021 | 4135027 | 14.19% | 2.466% |
| 68 | 14.232 | 2087 | 2093 | 2099 | rVB2 | 867925  | 1443390 | 4.95%  | 0.861% |
| 69 | 14.308 | 2099 | 2106 | 2110 | rBV4 | 145654  | 313907  | 1.08%  | 0.187% |
| 70 | 14.367 | 2110 | 2116 | 2121 | rVV  | 982931  | 1567739 | 5.38%  | 0.935% |
| 71 | 14.449 | 2121 | 2130 | 2133 | rVV  | 2586435 | 4375392 | 15.02% | 2.610% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
 Data File : VD066139.D  
 Acq On : 06 Aug 2020 17:22  
 Operator : VA/SY  
 Sample : L3563-01  
 Misc : 2.43G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-30860

## 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\82D080520S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 14.490 | 2133 | 2137 | 2141 | rVV  | 3603827 | 5640292 | 19.36% | 3.364% |
| 73 | 14.532 | 2141 | 2144 | 2148 | rVV  | 832813  | 1223845 | 4.20%  | 0.730% |
| 74 | 14.573 | 2148 | 2151 | 2158 | rVV  | 551713  | 799228  | 2.74%  | 0.477% |
| 75 | 14.673 | 2164 | 2168 | 2171 | rVV  | 440257  | 619078  | 2.13%  | 0.369% |
| 76 | 14.720 | 2171 | 2176 | 2180 | rVV2 | 874937  | 1565686 | 5.37%  | 0.934% |
| 77 | 14.761 | 2180 | 2183 | 2188 | rVB  | 862545  | 1261689 | 4.33%  | 0.753% |
| 78 | 14.826 | 2188 | 2194 | 2201 | rBV2 | 2165068 | 4903523 | 16.83% | 2.925% |
| 79 | 14.890 | 2201 | 2205 | 2210 | rVB  | 709078  | 1058675 | 3.63%  | 0.631% |
| 80 | 15.108 | 2235 | 2242 | 2253 | rVB  | 901656  | 2122220 | 7.28%  | 1.266% |
| 81 | 15.214 | 2254 | 2260 | 2264 | rBV2 | 420071  | 776056  | 2.66%  | 0.463% |
| 82 | 15.255 | 2264 | 2267 | 2273 | rVB  | 323975  | 472383  | 1.62%  | 0.282% |
| 83 | 15.408 | 2280 | 2293 | 2305 | rBV  | 1955857 | 3850879 | 13.22% | 2.297% |
| 84 | 15.602 | 2322 | 2326 | 2336 | rVB  | 185716  | 337035  | 1.16%  | 0.201% |
| 85 | 15.708 | 2336 | 2344 | 2353 | rBV2 | 131619  | 364395  | 1.25%  | 0.217% |
| 86 | 16.502 | 2472 | 2479 | 2485 | rBV  | 298516  | 621290  | 2.13%  | 0.371% |
| 87 | 16.567 | 2485 | 2490 | 2496 | rVB  | 186063  | 326862  | 1.12%  | 0.195% |
| 88 | 16.708 | 2506 | 2514 | 2527 | rVB  | 135003  | 405274  | 1.39%  | 0.242% |

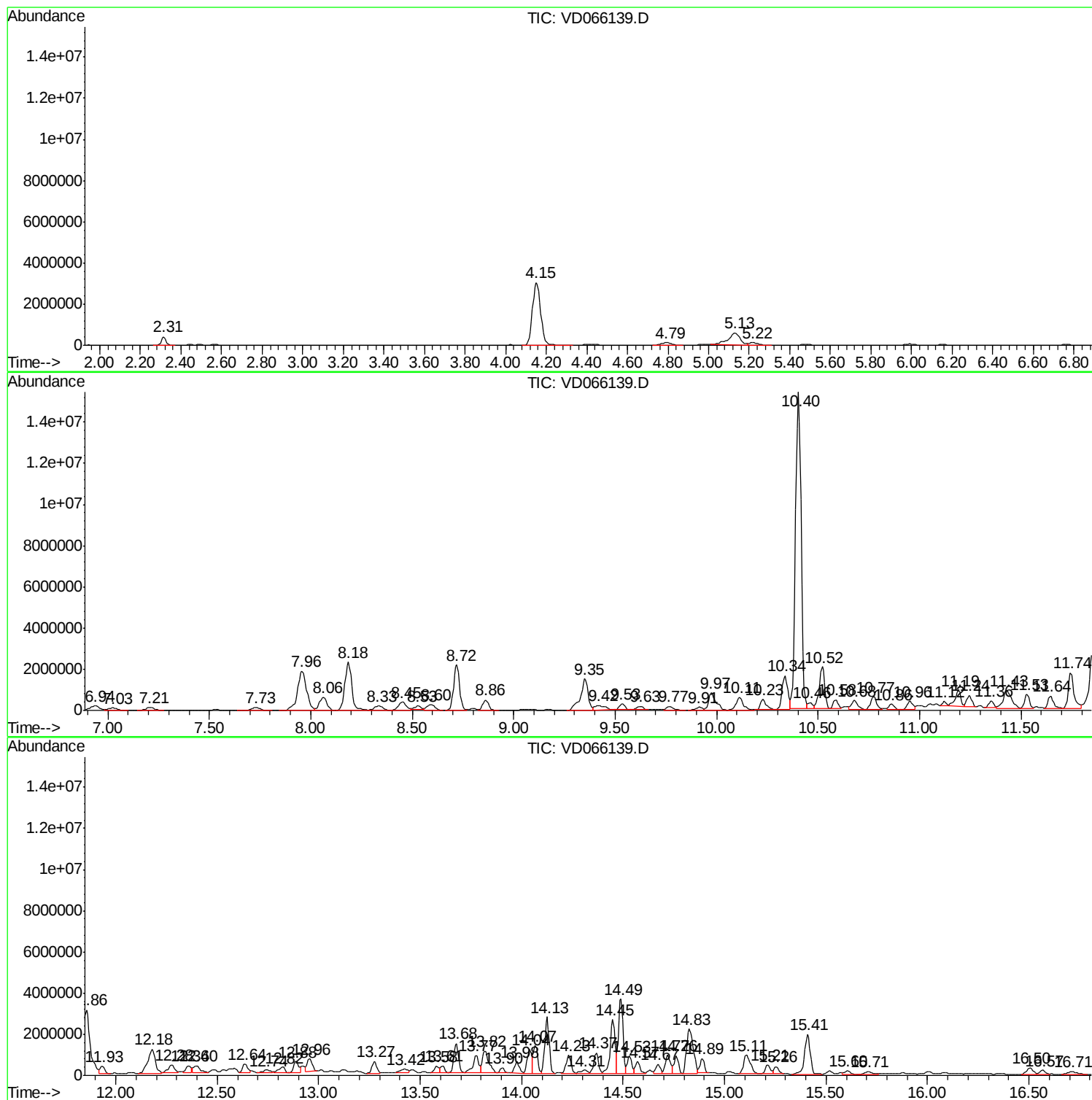
Sum of corrected areas: 167661786

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

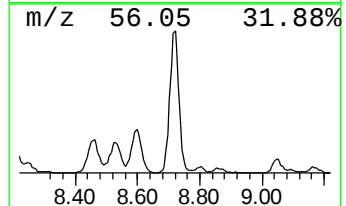
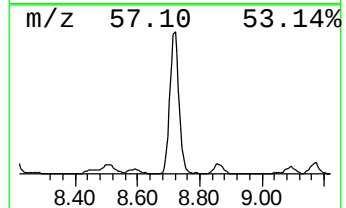
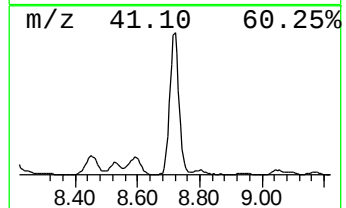
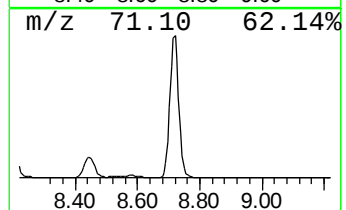
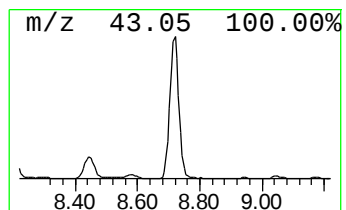
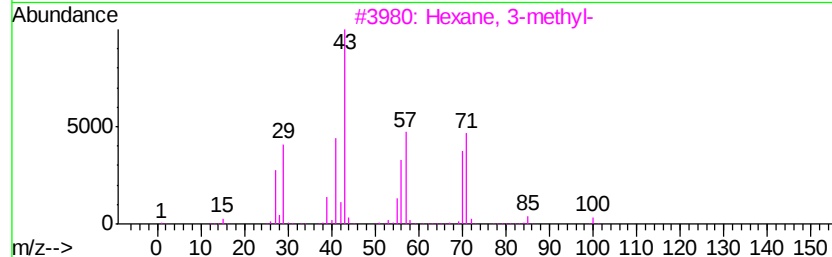
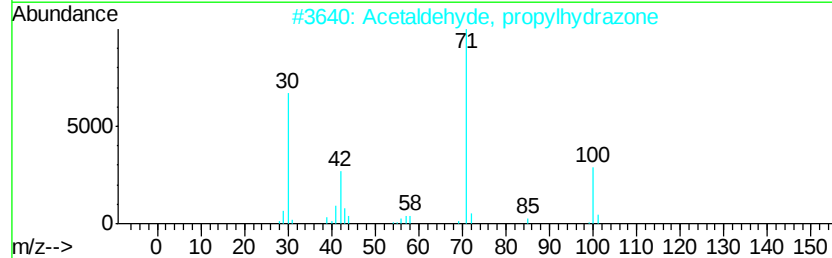
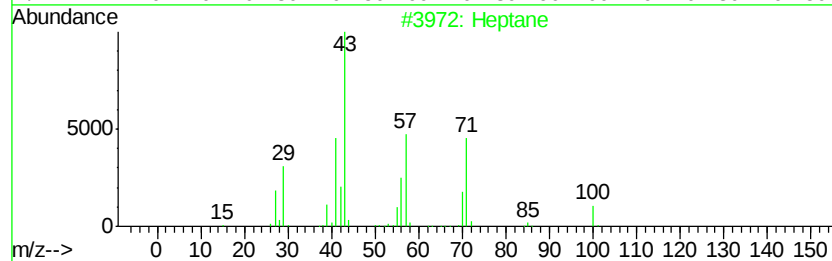
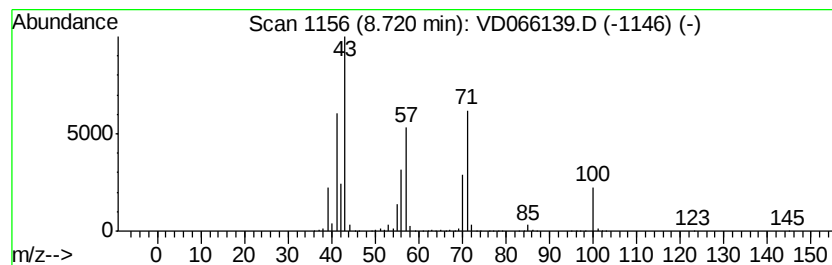
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Heptane Concentration Rank 5

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 8.72 | 226.44 ug/l | 4455520 | 1,4-Difluorobenzene | 8.86 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane                       | 100 | C7H16   | 000142-82-5 | 91   |
| 2    |    | Acetaldehyde, propylhydrazone | 100 | C5H12N2 | 007422-88-0 | 49   |
| 3    |    | Hexane, 3-methyl-             | 100 | C7H16   | 000589-34-4 | 47   |
| 4    |    | Hexane, 2,3-dimethyl-         | 114 | C8H18   | 000584-94-1 | 38   |
| 5    |    | Pentane, 2,3,4-trimethyl-     | 114 | C8H18   | 000565-75-3 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

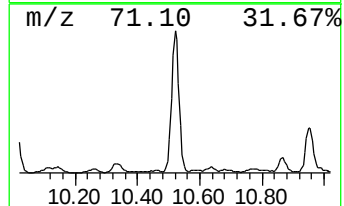
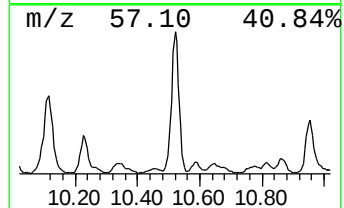
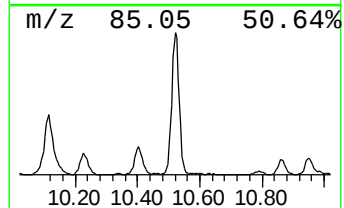
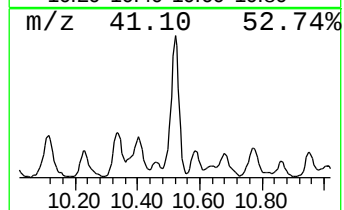
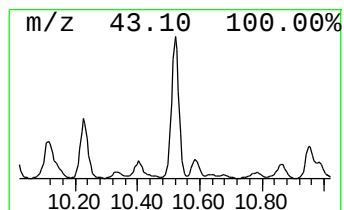
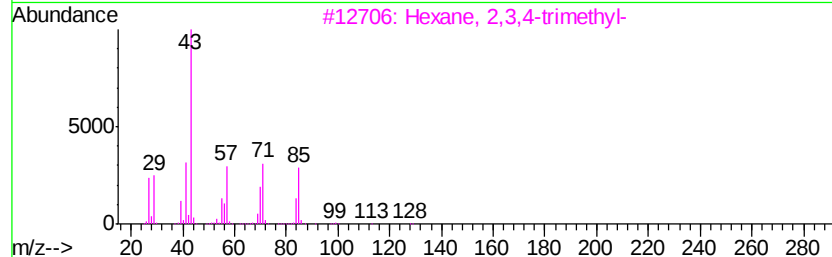
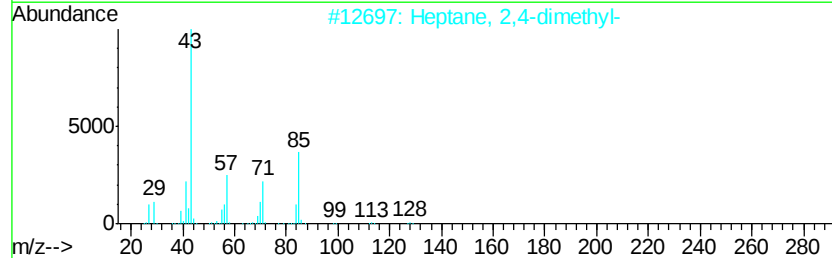
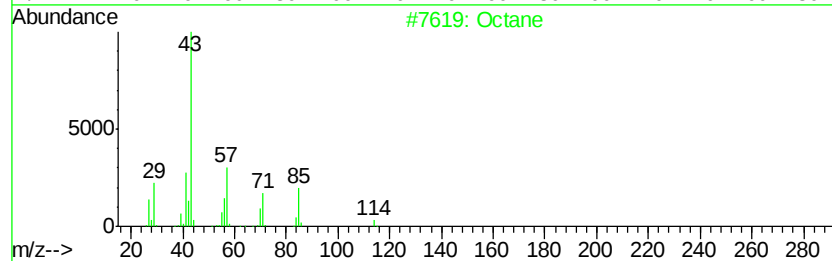
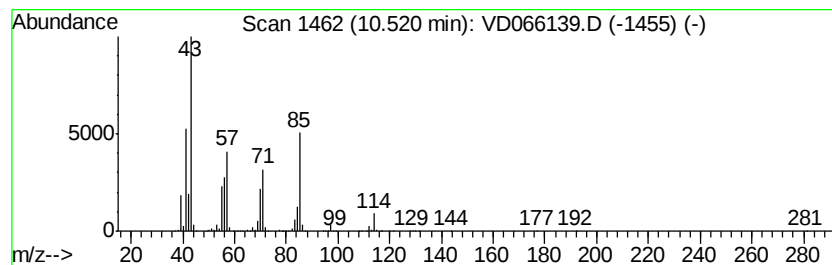
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Octane Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.52 | 175.54 ug/l | 3797240 | Chlorobenzene-d5 | 11.64 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Octane                   |              | 114 | C8H18   | 000111-65-9 | 91   |
| 2       | Heptane, 2,4-dimethyl-   |              | 128 | C9H20   | 002213-23-2 | 81   |
| 3       | Hexane, 2,3,4-trimethyl- |              | 128 | C9H20   | 000921-47-1 | 58   |
| 4       | Heptane, 2,3-dimethyl-   |              | 128 | C9H20   | 003074-71-3 | 53   |
| 5       | Hexane, 2,4-dimethyl-    |              | 114 | C8H18   | 000589-43-5 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

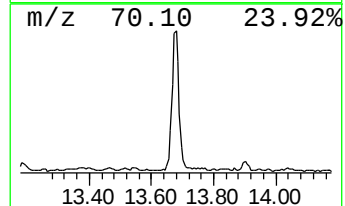
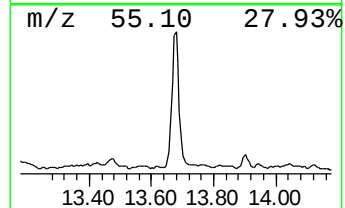
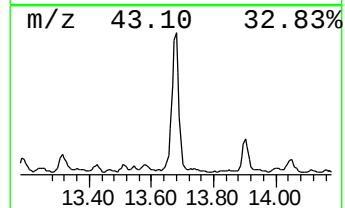
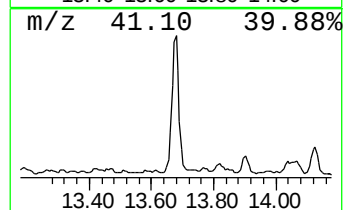
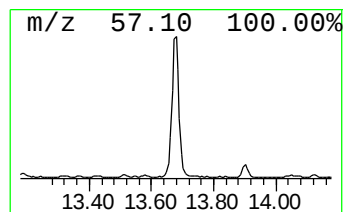
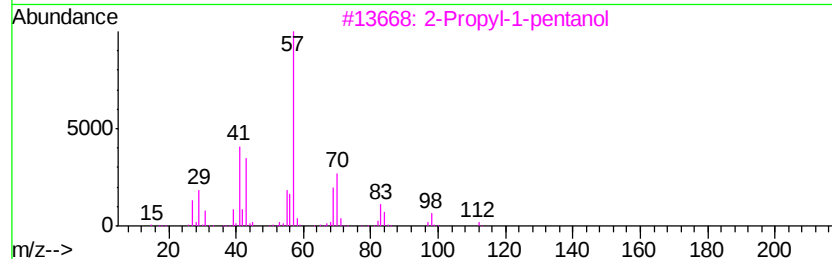
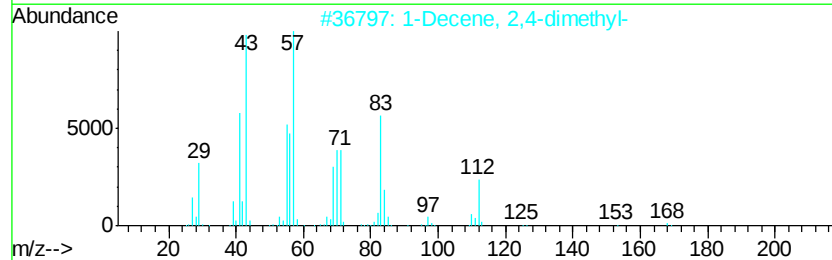
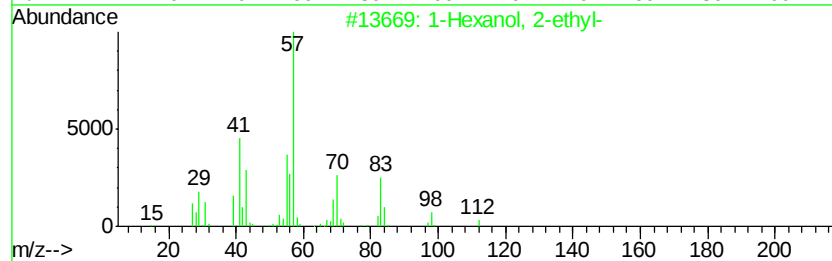
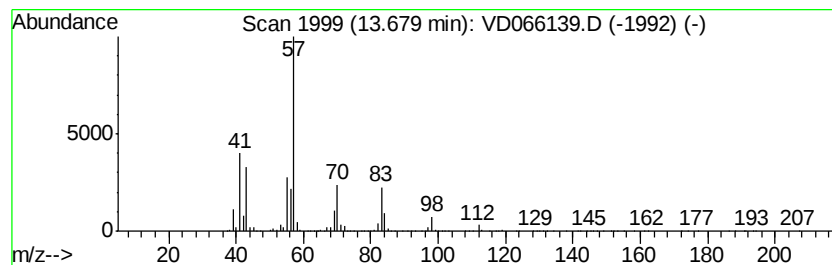
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.68 | 223.02 ug/l | 2264670 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1-Hexanol, 2-ethyl-                 | 130 | C8H18O   | 000104-76-7  | 90   |
| 2    |    | 1-Decene, 2,4-dimethyl-             | 168 | C12H24   | 055170-80-4  | 53   |
| 3    |    | 2-Propyl-1-pentanol                 | 130 | C8H18O   | 058175-57-8  | 53   |
| 4    |    | 2-Ethylhexyl hydrogen maleate       | 228 | C12H20O4 | 002370-71-0  | 45   |
| 5    |    | Carbonic acid, isobutyl 2-ethylh... | 230 | C13H26O3 | 1000357-82-9 | 42   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

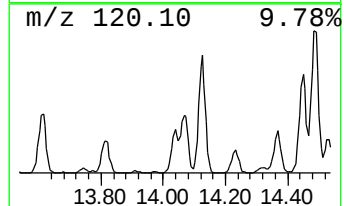
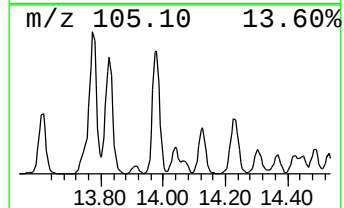
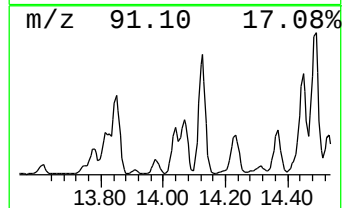
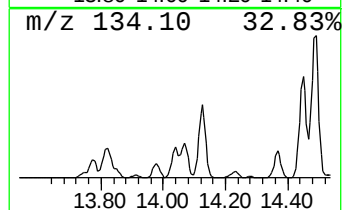
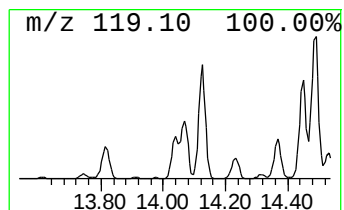
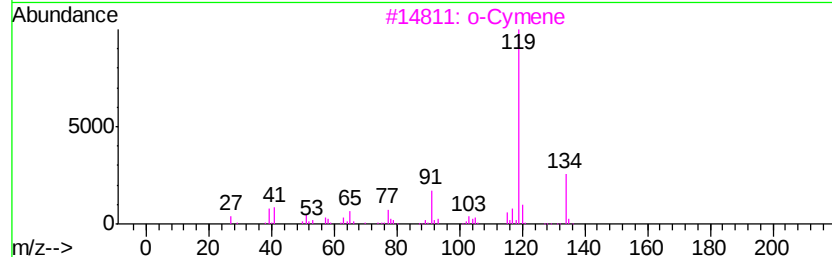
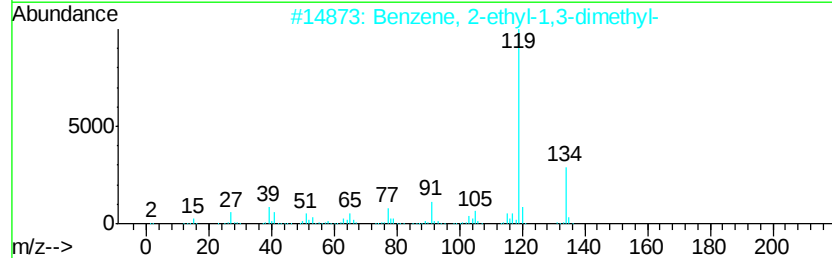
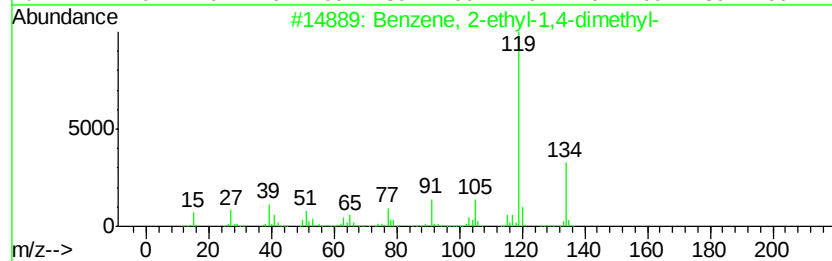
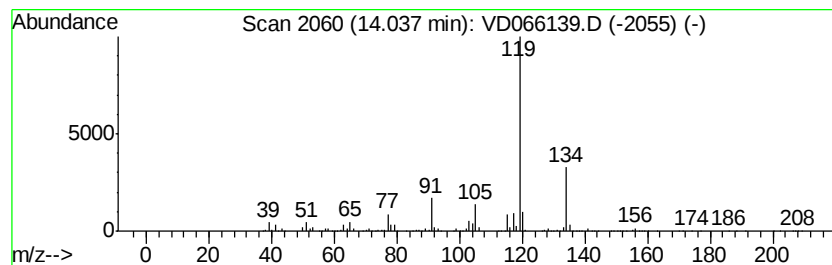
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.04 | 173.03 ug/l | 1757070 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 97   |
| 2    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 95   |
| 3    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

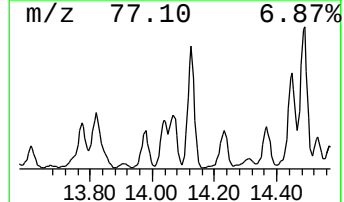
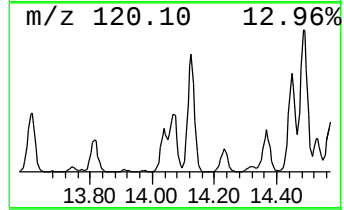
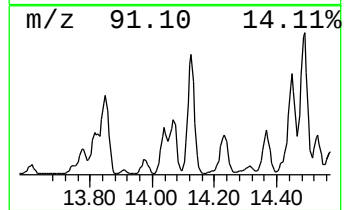
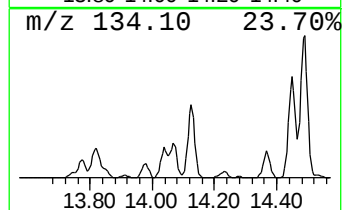
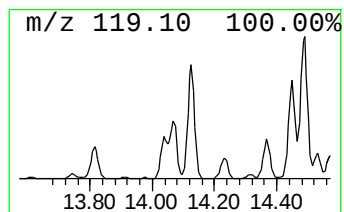
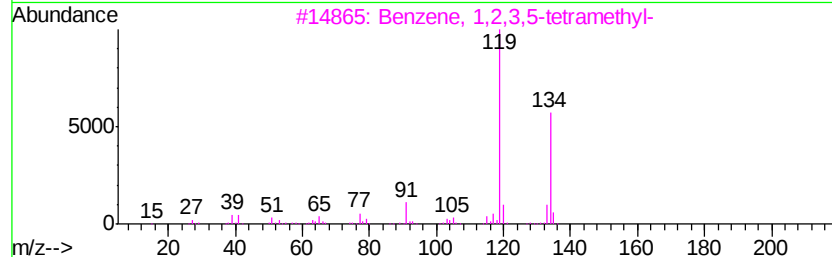
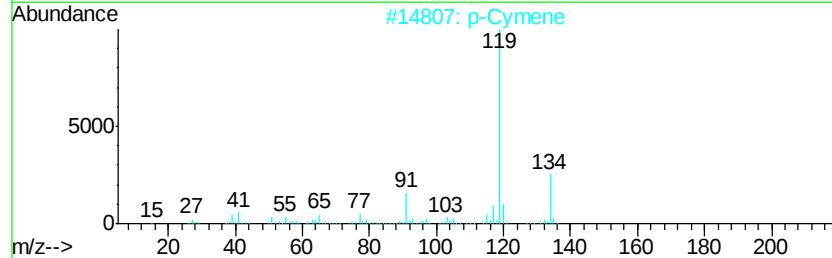
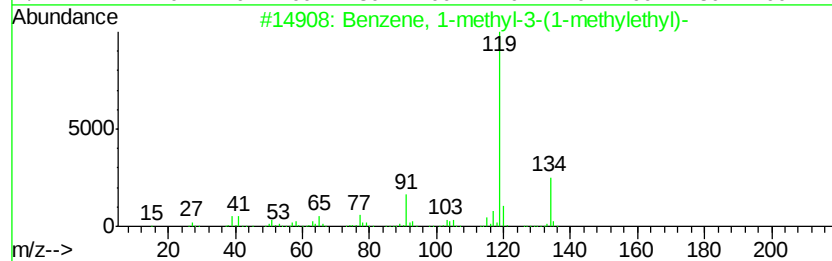
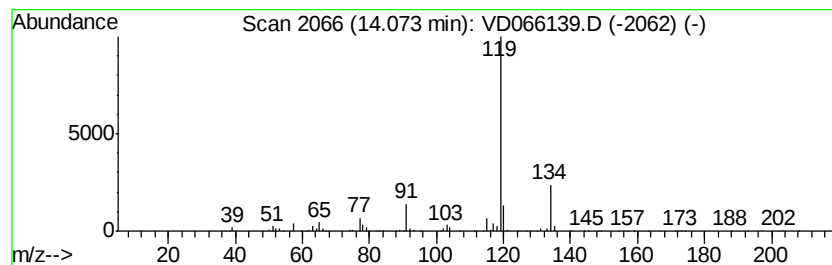
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 1-methyl-3-(1-meth... Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.07 | 205.46 ug/l | 2086360 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 95   |
| 2    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 91   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-       | 134 | C10H14  | 000527-53-7 | 91   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 91   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

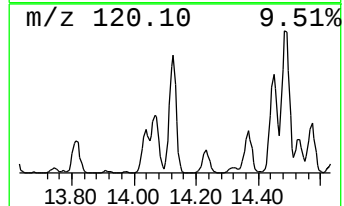
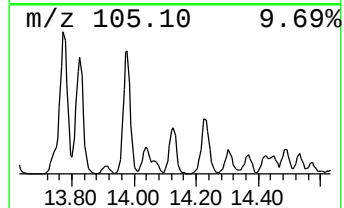
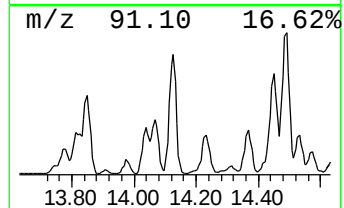
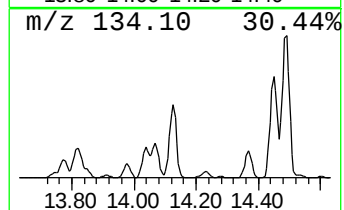
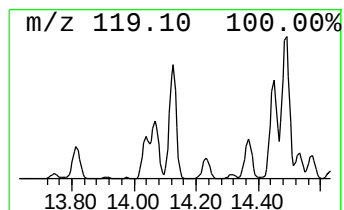
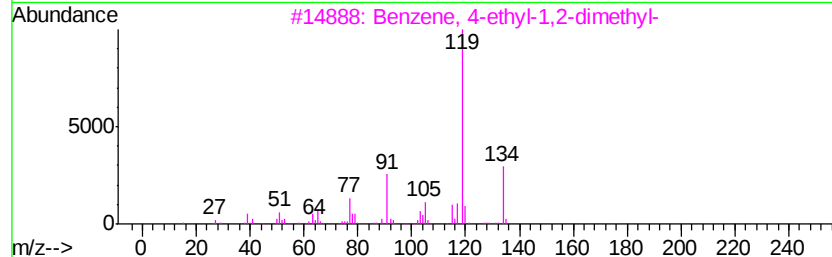
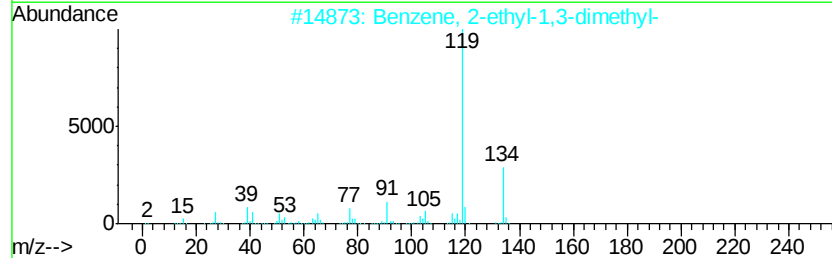
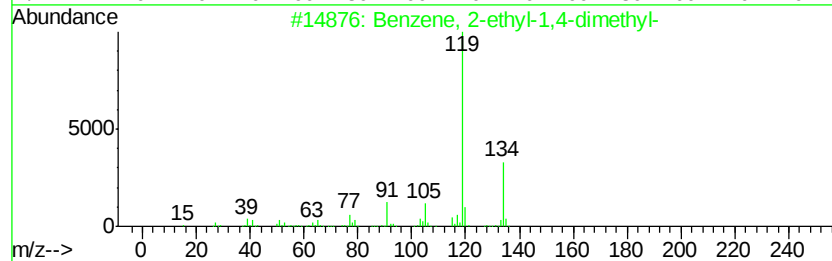
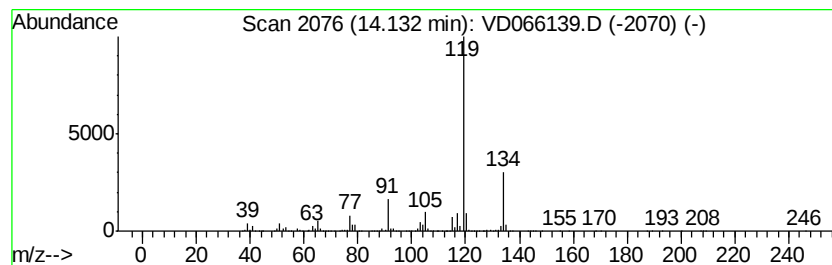
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.13 | 407.21 ug/l | 4135030 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------------|-----|---------|-------------|------|
| 1       | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 2       | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 95   |
| 3       | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 95   |
| 4       | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 5       | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

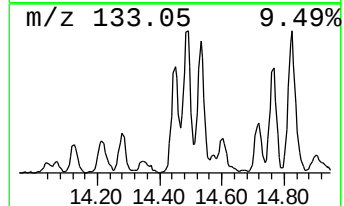
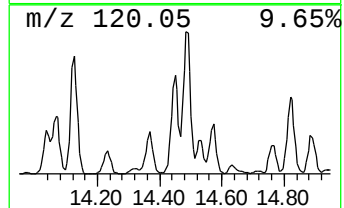
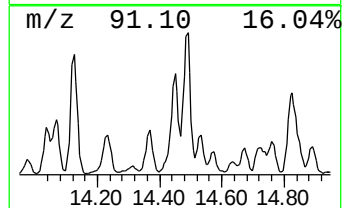
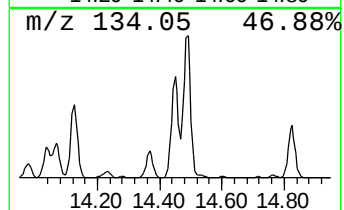
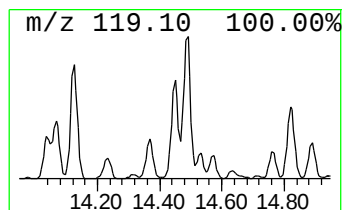
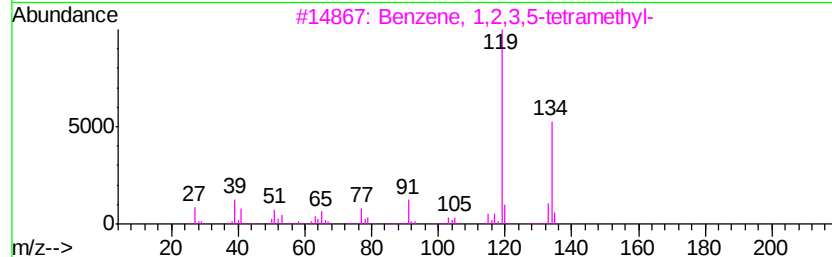
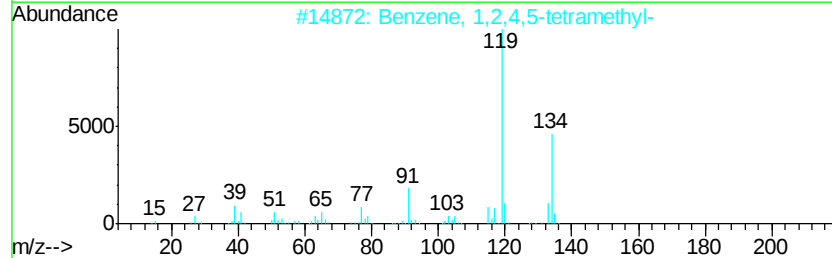
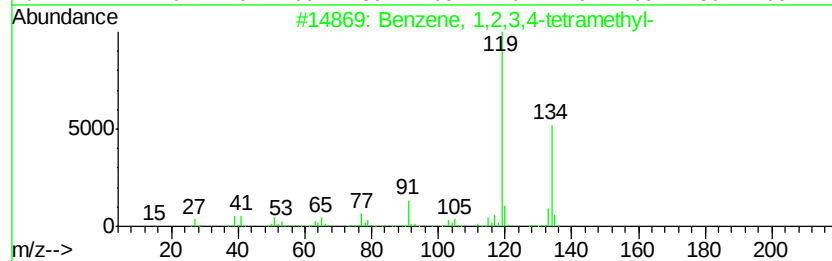
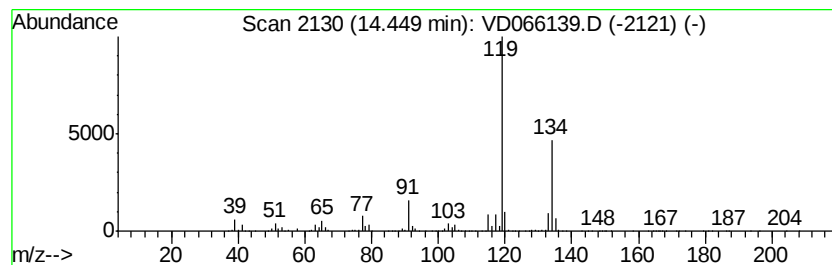
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.45 | 430.88 ug/l | 4375390 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 97   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 97   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 97   |
| 4    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |
| 5    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

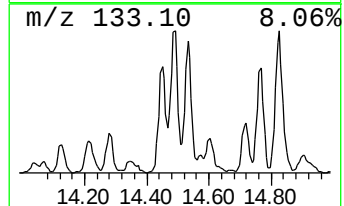
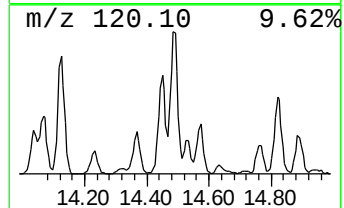
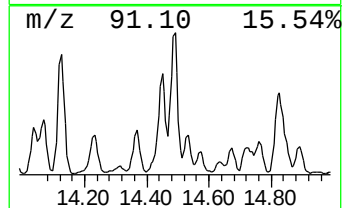
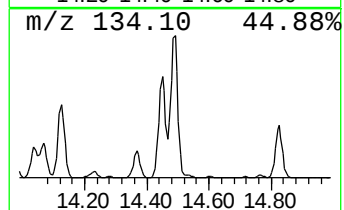
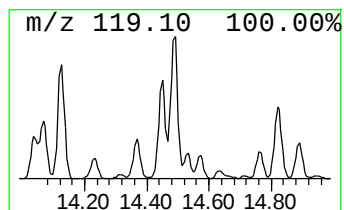
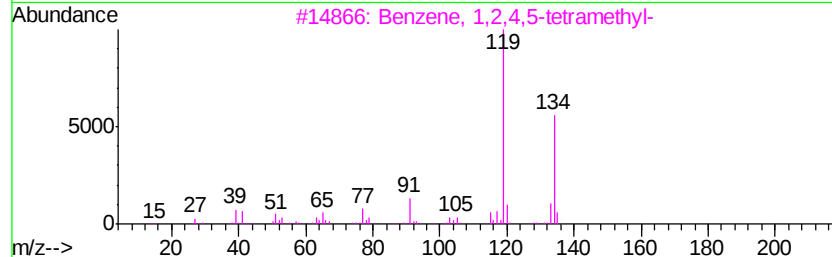
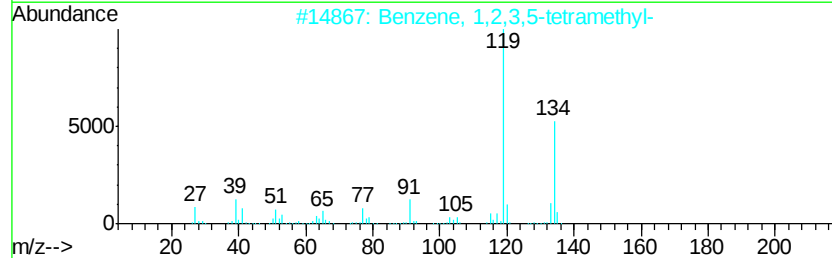
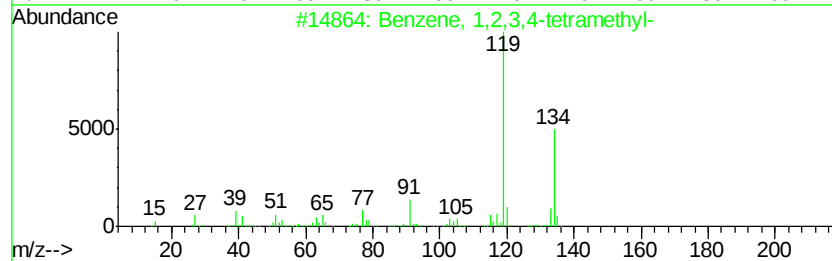
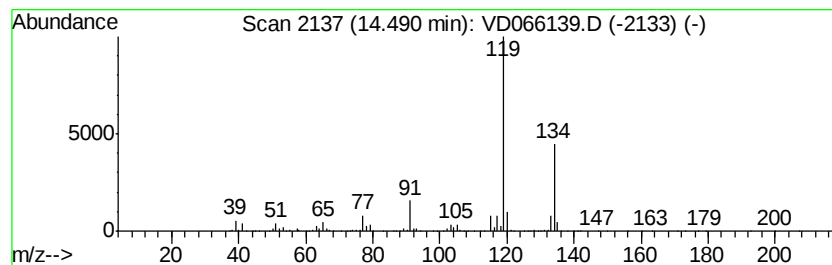
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.49 | 555.44 ug/l | 5640290 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------------|-----|---------|-------------|------|
| 1       | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 97   |
| 2       | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 95   |
| 3       | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 4       | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |
| 5       | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

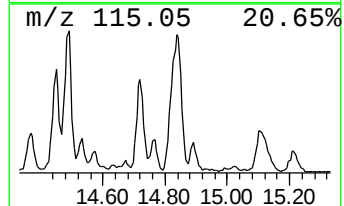
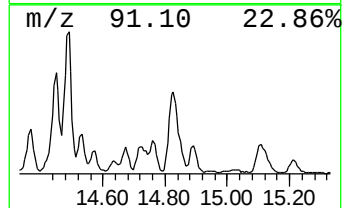
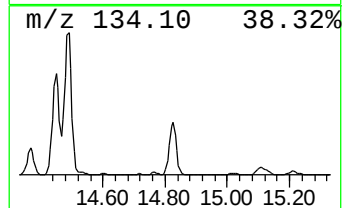
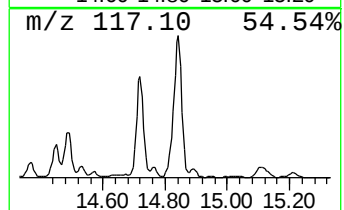
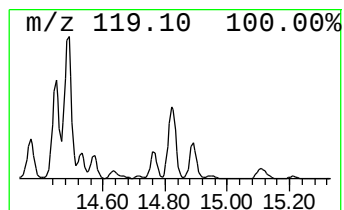
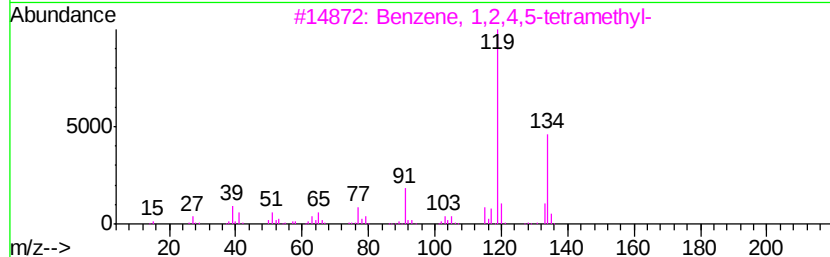
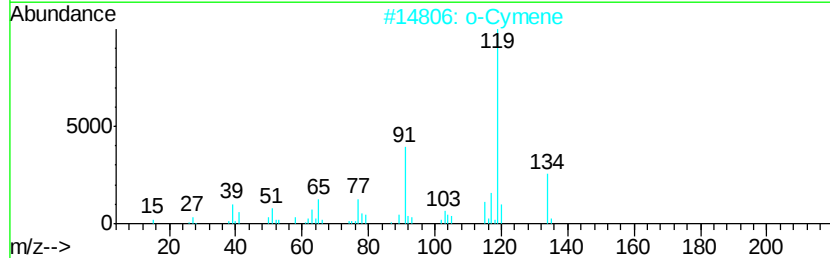
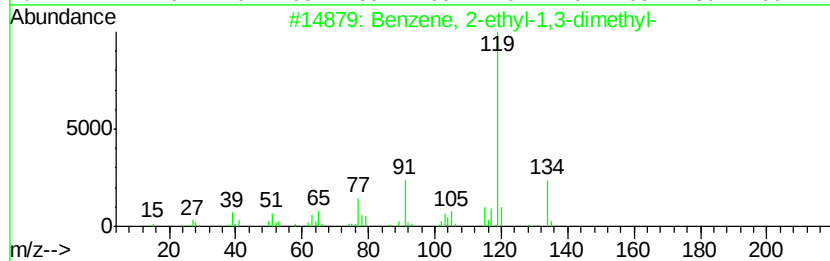
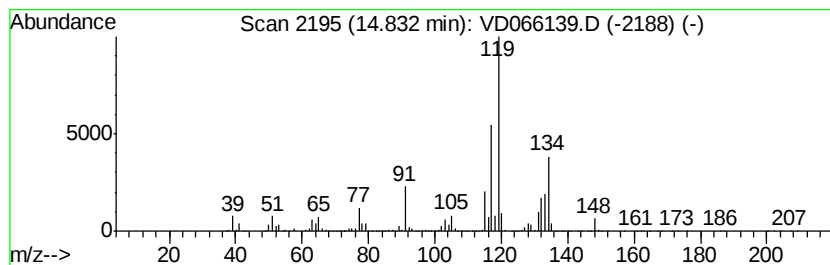
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 o-Cymene Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.83 | 482.89 ug/l | 4903520 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 92   |
| 2    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 76   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 76   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 76   |
| 5    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 74   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260

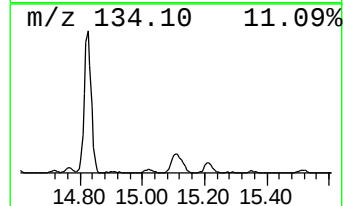
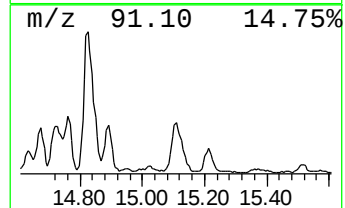
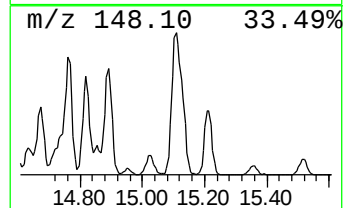
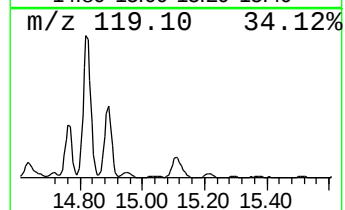
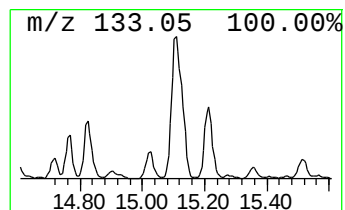
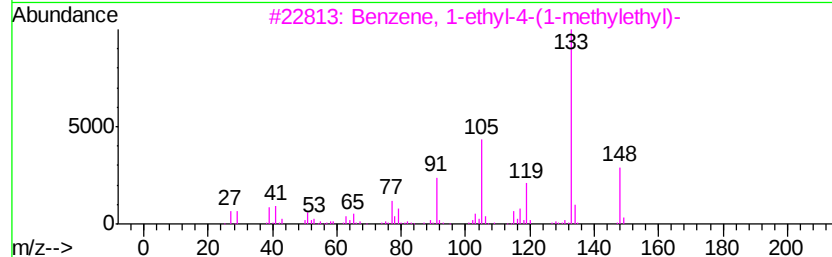
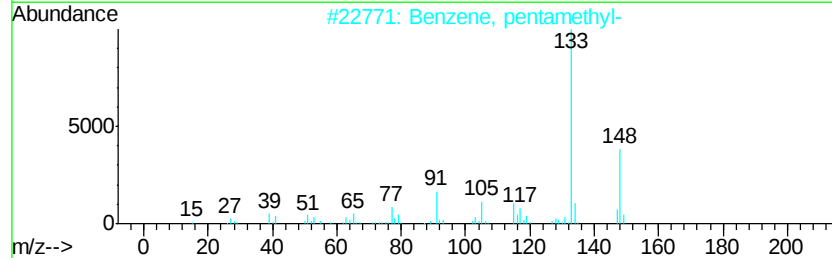
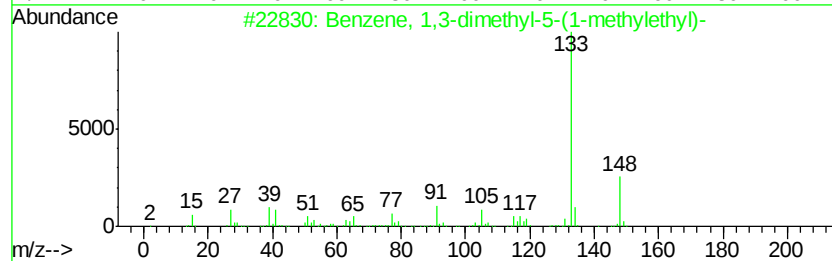
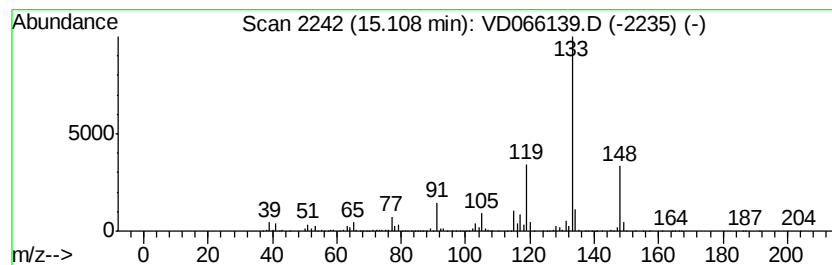
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.11 | 208.99 ug/l | 2122220 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-dimethyl-5-(1-methyl-... | 148 | C11H16  | 004706-90-5 | 93   |
| 2    |    | Benzene, pentamethyl-                 | 148 | C11H16  | 000700-12-9 | 91   |
| 3    |    | Benzene, 1-ethyl-4-(1-methylethyl)-   | 148 | C11H16  | 004218-48-8 | 90   |
| 4    |    | Benzene, 1,3-diethyl-5-methyl-        | 148 | C11H16  | 002050-24-0 | 89   |
| 5    |    | Benzene, 2,4-diethyl-1-methyl-        | 148 | C11H16  | 001758-85-6 | 89   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD080620\  
Data File : VD066139.D  
Acq On : 06 Aug 2020 17:22  
Operator : VA/SY  
Sample : L3563-01  
Misc : 2.43G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-30860

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.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 |
| Heptane              | 8.72  | 226.4   | ug/l  | 4455520  | 2                     | 8.86  | 983831  | 50.0 |
| Octane               | 10.52 | 175.5   | ug/l  | 3797240  | 3                     | 11.64 | 1081620 | 50.0 |
| 1-Hexanol, 2-ethyl-  | 13.68 | 223.0   | ug/l  | 2264670  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 2-ethyl-... | 14.04 | 173.0   | ug/l  | 1757070  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 1-methyl... | 14.07 | 205.5   | ug/l  | 2086360  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 2-ethyl-... | 14.13 | 407.2   | ug/l  | 4135030  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 1,2,3,4-... | 14.45 | 430.9   | ug/l  | 4375390  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 1,2,3,5-... | 14.49 | 555.4   | ug/l  | 5640290  | 4                     | 13.58 | 507730  | 50.0 |
| o-Cymene             | 14.83 | 482.9   | ug/l  | 4903520  | 4                     | 13.58 | 507730  | 50.0 |
| Benzene, 1,3-dime... | 15.11 | 209.0   | ug/l  | 2122220  | 4                     | 13.58 | 507730  | 50.0 |