

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
 Data File : VD062927.D  
 Acq On : 27 Jun 2019 13:14  
 Operator : VA/AP  
 Sample : K3471-01  
 Misc : 4.99g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WASTE

## 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\82D061919S.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         | 2.179       | 73            | 76          | 82           | rVB      | 69815          | 136039        | 1.91%           | 0.104%        |
| 2         | 3.202       | 176           | 180         | 187          | rVB      | 28839          | 80429         | 1.13%           | 0.061%        |
| 3         | 3.793       | 231           | 240         | 253          | rBV      | 260127         | 795018        | 11.19%          | 0.607%        |
| 4         | 3.970       | 253           | 258         | 266          | rVB2     | 25539          | 87665         | 1.23%           | 0.067%        |
| 5         | 6.146       | 472           | 479         | 487          | rBV      | 113879         | 376075        | 5.29%           | 0.287%        |
| 6         | 6.904       | 547           | 556         | 561          | rBV      | 433324         | 1226932       | 17.26%          | 0.937%        |
| 7         | 7.022       | 561           | 568         | 584          | rVB      | 883138         | 2588754       | 36.43%          | 1.976%        |
| 8         | 7.436       | 601           | 610         | 621          | rBV3     | 457227         | 1897074       | 26.69%          | 1.448%        |
| 9         | 8.194       | 680           | 687         | 701          | rBV      | 1097551        | 2656912       | 37.39%          | 2.028%        |
| 10        | 8.833       | 743           | 752         | 757          | rBV4     | 28876          | 96923         | 1.36%           | 0.074%        |
| 11        | 10.093      | 876           | 880         | 889          | rVB3     | 26438          | 82008         | 1.15%           | 0.063%        |
| 12        | 10.389      | 902           | 910         | 919          | rBV      | 997491         | 2323809       | 32.70%          | 1.774%        |
| 13        | 10.901      | 956           | 962         | 968          | rBV4     | 46276          | 129875        | 1.83%           | 0.099%        |
| 14        | 11.078      | 974           | 980         | 985          | rVB4     | 33535          | 81331         | 1.14%           | 0.062%        |
| 15        | 11.216      | 985           | 994         | 1001         | rVV2     | 78038          | 247161        | 3.48%           | 0.189%        |
| 16        | 11.472      | 1015          | 1020        | 1023         | rBV      | 71422          | 141813        | 2.00%           | 0.108%        |
| 17        | 11.619      | 1028          | 1035        | 1037         | rBV      | 58220          | 136786        | 1.92%           | 0.104%        |
| 18        | 11.728      | 1042          | 1046        | 1051         | rVB      | 121635         | 258043        | 3.63%           | 0.197%        |
| 19        | 11.816      | 1051          | 1055        | 1058         | rBV2     | 160046         | 353886        | 4.98%           | 0.270%        |
| 20        | 11.875      | 1058          | 1061        | 1068         | rVB3     | 73031          | 183518        | 2.58%           | 0.140%        |
| 21        | 12.043      | 1075          | 1078        | 1081         | rBV      | 69701          | 130015        | 1.83%           | 0.099%        |
| 22        | 12.102      | 1081          | 1084        | 1087         | rBV      | 137138         | 261157        | 3.67%           | 0.199%        |
| 23        | 12.151      | 1087          | 1089        | 1095         | rVB      | 101343         | 160127        | 2.25%           | 0.122%        |
| 24        | 12.299      | 1099          | 1104        | 1106         | rBV      | 194841         | 397685        | 5.60%           | 0.304%        |
| 25        | 12.348      | 1106          | 1109        | 1114         | rVB      | 1492505        | 2494544       | 35.10%          | 1.904%        |
| 26        | 12.446      | 1114          | 1119        | 1123         | rVB5     | 55794          | 159463        | 2.24%           | 0.122%        |
| 27        | 12.535      | 1123          | 1128        | 1132         | rBV2     | 82056          | 190785        | 2.68%           | 0.146%        |
| 28        | 12.623      | 1132          | 1137        | 1140         | rBV3     | 142983         | 398225        | 5.60%           | 0.304%        |
| 29        | 12.683      | 1140          | 1143        | 1146         | rVB2     | 238860         | 406708        | 5.72%           | 0.310%        |
| 30        | 12.742      | 1146          | 1149        | 1155         | rVB      | 176254         | 327915        | 4.61%           | 0.250%        |
| 31        | 12.840      | 1155          | 1159        | 1163         | rBV2     | 99479          | 183029        | 2.58%           | 0.140%        |
| 32        | 12.988      | 1170          | 1174        | 1177         | rBV3     | 356976         | 805883        | 11.34%          | 0.615%        |
| 33        | 13.037      | 1177          | 1179        | 1181         | rVB3     | 67927          | 92988         | 1.31%           | 0.071%        |
| 34        | 13.076      | 1181          | 1183        | 1187         | rVB2     | 209469         | 341867        | 4.81%           | 0.261%        |

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 Misc : 4.99g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WASTE

## 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\82D061919S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.135 | 1187 | 1189 | 1191 | rBV  | 65290   | 73300   | 1.03%  | 0.056% |
| 36 | 13.204 | 1191 | 1196 | 1199 | rBV2 | 765794  | 1355229 | 19.07% | 1.035% |
| 37 | 13.293 | 1199 | 1205 | 1213 | rBV4 | 715528  | 1971037 | 27.74% | 1.505% |
| 38 | 13.391 | 1213 | 1215 | 1218 | rVB2 | 194601  | 278689  | 3.92%  | 0.213% |
| 39 | 13.470 | 1218 | 1223 | 1226 | rBV3 | 364448  | 965609  | 13.59% | 0.737% |
| 40 | 13.539 | 1227 | 1230 | 1234 | rVB  | 1262307 | 1858902 | 26.16% | 1.419% |
| 41 | 13.598 | 1234 | 1236 | 1240 | rBV3 | 135901  | 305419  | 4.30%  | 0.233% |
| 42 | 13.657 | 1240 | 1242 | 1243 | rBV  | 93756   | 132377  | 1.86%  | 0.101% |
| 43 | 13.697 | 1243 | 1246 | 1251 | rVB2 | 804738  | 1382350 | 19.45% | 1.055% |
| 44 | 13.815 | 1254 | 1258 | 1261 | rBV3 | 382807  | 807282  | 11.36% | 0.616% |
| 45 | 13.884 | 1261 | 1265 | 1266 | rBV3 | 394835  | 773075  | 10.88% | 0.590% |
| 46 | 13.913 | 1266 | 1268 | 1270 | rVB  | 523669  | 669757  | 9.42%  | 0.511% |
| 47 | 13.962 | 1270 | 1273 | 1276 | rVB  | 795075  | 1247939 | 17.56% | 0.953% |
| 48 | 14.012 | 1276 | 1278 | 1280 | rBV3 | 211777  | 330927  | 4.66%  | 0.253% |
| 49 | 14.051 | 1280 | 1282 | 1284 | rVB  | 248036  | 249570  | 3.51%  | 0.191% |
| 50 | 14.110 | 1284 | 1288 | 1290 | rBV3 | 662966  | 1506088 | 21.19% | 1.150% |
| 51 | 14.149 | 1290 | 1292 | 1294 | rBV2 | 272526  | 386704  | 5.44%  | 0.295% |
| 52 | 14.189 | 1294 | 1296 | 1299 | rVB  | 562320  | 730350  | 10.28% | 0.558% |
| 53 | 14.248 | 1299 | 1302 | 1307 | rVB3 | 729252  | 1364903 | 19.21% | 1.042% |
| 54 | 14.317 | 1307 | 1309 | 1310 | rBV  | 544562  | 697427  | 9.81%  | 0.532% |
| 55 | 14.366 | 1310 | 1314 | 1318 | rVB6 | 774321  | 1464542 | 20.61% | 1.118% |
| 56 | 14.425 | 1318 | 1320 | 1322 | rBV2 | 1262739 | 1694499 | 23.84% | 1.294% |
| 57 | 14.464 | 1322 | 1324 | 1326 | rVB2 | 645483  | 783732  | 11.03% | 0.598% |
| 58 | 14.504 | 1326 | 1328 | 1332 | rVB2 | 1894118 | 2895383 | 40.74% | 2.210% |
| 59 | 14.612 | 1334 | 1339 | 1340 | rBV5 | 417310  | 755773  | 10.63% | 0.577% |
| 60 | 14.642 | 1340 | 1342 | 1343 | rVB  | 386367  | 414700  | 5.84%  | 0.317% |
| 61 | 14.701 | 1343 | 1348 | 1352 | rVB5 | 916449  | 1963347 | 27.63% | 1.499% |
| 62 | 14.799 | 1352 | 1358 | 1361 | rBV4 | 2197111 | 4717786 | 66.39% | 3.602% |
| 63 | 14.888 | 1365 | 1367 | 1369 | rBV  | 705508  | 1134073 | 15.96% | 0.866% |
| 64 | 14.927 | 1369 | 1371 | 1374 | rVB2 | 1414636 | 2362330 | 33.24% | 1.803% |
| 65 | 15.006 | 1374 | 1379 | 1381 | rBV3 | 1738784 | 3869193 | 54.44% | 2.954% |
| 66 | 15.045 | 1381 | 1383 | 1385 | rVB2 | 1960564 | 2295035 | 32.29% | 1.752% |
| 67 | 15.075 | 1385 | 1386 | 1388 | rVB2 | 595708  | 631691  | 8.89%  | 0.482% |
| 68 | 15.124 | 1388 | 1391 | 1394 | rBV3 | 1903435 | 4126635 | 58.07% | 3.150% |
| 69 | 15.213 | 1397 | 1400 | 1403 | rVB4 | 981748  | 1992005 | 28.03% | 1.521% |
| 70 | 15.272 | 1403 | 1406 | 1408 | rBV3 | 2732086 | 3901558 | 54.90% | 2.979% |
| 71 | 15.311 | 1408 | 1410 | 1415 | rVB2 | 2516351 | 5123947 | 72.10% | 3.912% |

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 MSVOA\_D  
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## 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\82D061919S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 15.380 | 1415 | 1417 | 1418 | rBV2 | 208576  | 284820  | 4.01%   | 0.217% |
| 73 | 15.419 | 1418 | 1421 | 1424 | rBV3 | 3445791 | 4667808 | 65.68%  | 3.564% |
| 74 | 15.478 | 1424 | 1427 | 1428 | rBV2 | 935839  | 1741190 | 24.50%  | 1.329% |
| 75 | 15.518 | 1428 | 1431 | 1434 | rVB3 | 1213364 | 2435430 | 34.27%  | 1.859% |
| 76 | 15.577 | 1434 | 1437 | 1440 | rBV4 | 1167958 | 2278952 | 32.07%  | 1.740% |
| 77 | 15.626 | 1440 | 1442 | 1443 | rBV  | 835936  | 931916  | 13.11%  | 0.711% |
| 78 | 15.665 | 1443 | 1446 | 1451 | rBV3 | 3190941 | 7106663 | 100.00% | 5.425% |
| 79 | 15.734 | 1451 | 1453 | 1456 | rVB2 | 2561547 | 3585797 | 50.46%  | 2.738% |
| 80 | 15.803 | 1456 | 1460 | 1462 | rBV3 | 2255064 | 3390926 | 47.71%  | 2.589% |
| 81 | 15.990 | 1474 | 1479 | 1481 | rVB2 | 2418545 | 5076378 | 71.43%  | 3.875% |
| 82 | 16.039 | 1481 | 1484 | 1485 | rVV  | 1101676 | 1821196 | 25.63%  | 1.390% |
| 83 | 16.059 | 1485 | 1486 | 1488 | rVV2 | 1263010 | 1549758 | 21.81%  | 1.183% |
| 84 | 16.099 | 1488 | 1490 | 1491 | rVV2 | 467231  | 626877  | 8.82%   | 0.479% |
| 85 | 16.138 | 1491 | 1494 | 1496 | rVV3 | 2315942 | 3996577 | 56.24%  | 3.051% |
| 86 | 16.217 | 1499 | 1502 | 1505 | rVV3 | 2580845 | 5021404 | 70.66%  | 3.833% |
| 87 | 16.286 | 1508 | 1509 | 1511 | rVB2 | 573490  | 493553  | 6.94%   | 0.377% |
| 88 | 16.355 | 1514 | 1516 | 1517 | rBV  | 409815  | 547516  | 7.70%   | 0.418% |
| 89 | 16.414 | 1520 | 1522 | 1524 | rVB2 | 725853  | 959816  | 13.51%  | 0.733% |
| 90 | 16.473 | 1524 | 1528 | 1529 | rBV2 | 1048178 | 1901872 | 26.76%  | 1.452% |
| 91 | 16.492 | 1529 | 1530 | 1536 | rVB  | 960050  | 1352889 | 19.04%  | 1.033% |
| 92 | 16.571 | 1536 | 1538 | 1540 | rVB  | 321411  | 434565  | 6.11%   | 0.332% |
| 93 | 16.610 | 1540 | 1542 | 1549 | rVB2 | 538399  | 1252763 | 17.63%  | 0.956% |
| 94 | 16.719 | 1550 | 1553 | 1556 | rVB  | 602867  | 945640  | 13.31%  | 0.722% |
| 95 | 16.768 | 1556 | 1558 | 1561 | rVB4 | 124261  | 206628  | 2.91%   | 0.158% |
| 96 | 16.866 | 1566 | 1568 | 1571 | rVB2 | 175574  | 248721  | 3.50%   | 0.190% |
| 97 | 16.916 | 1571 | 1573 | 1582 | rVB5 | 144965  | 355290  | 5.00%   | 0.271% |
| 98 | 17.044 | 1582 | 1586 | 1589 | rVB3 | 137620  | 251675  | 3.54%   | 0.192% |
| 99 | 17.132 | 1593 | 1595 | 1600 | rVB6 | 38066   | 77425   | 1.09%   | 0.059% |

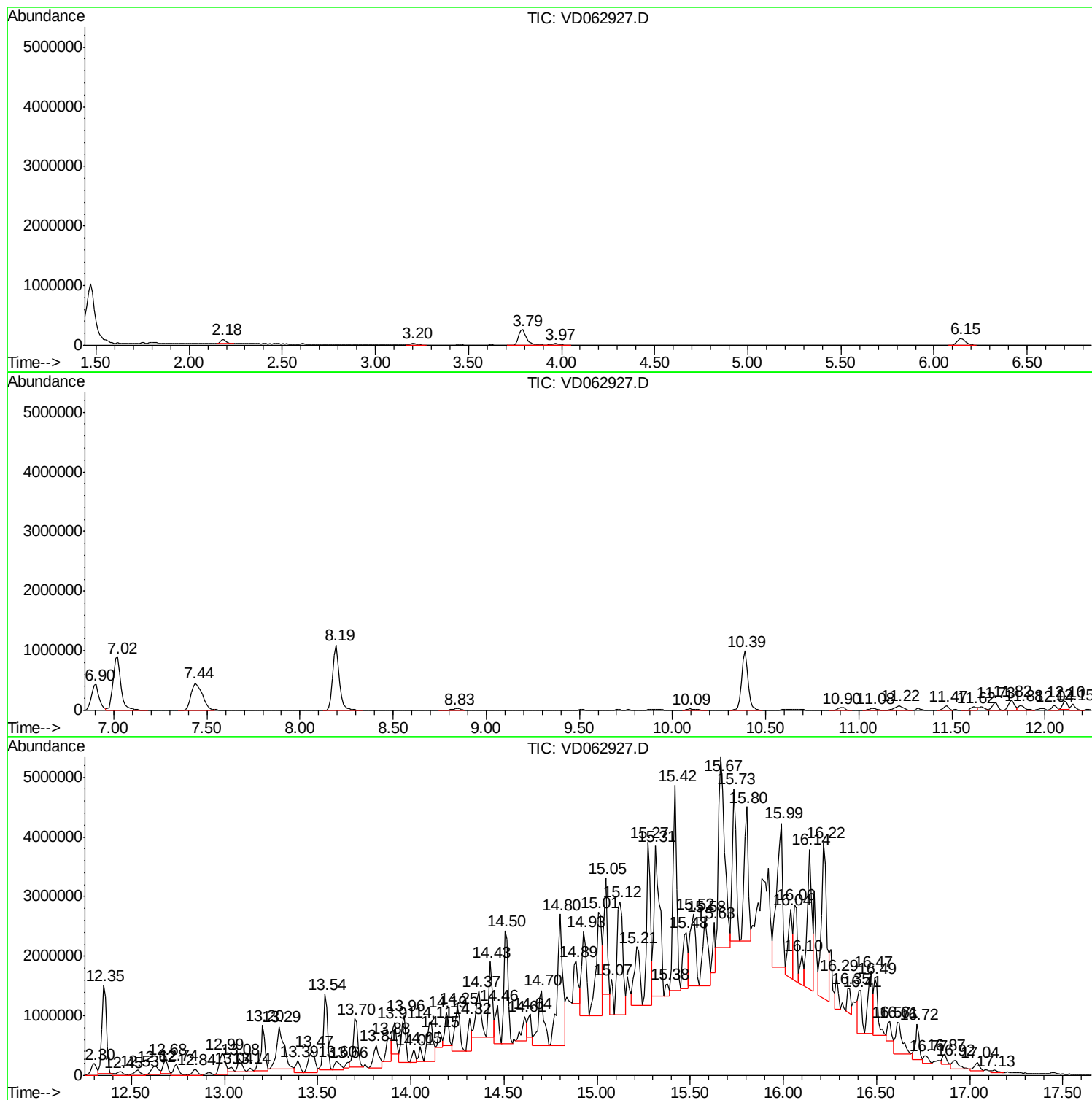
Sum of corrected areas: 130987650

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

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



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WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

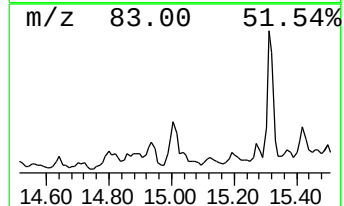
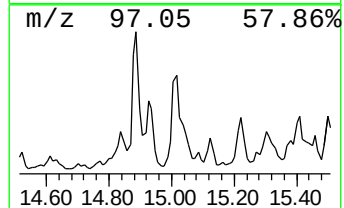
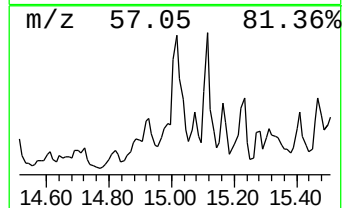
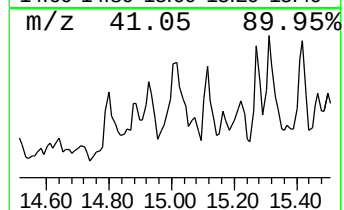
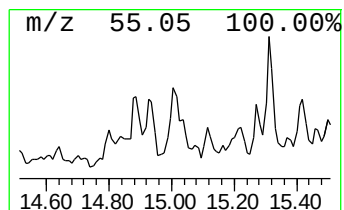
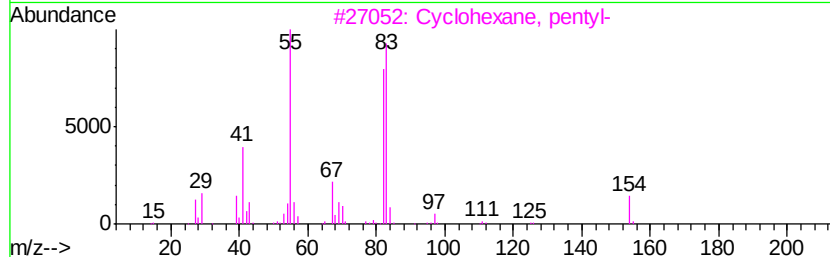
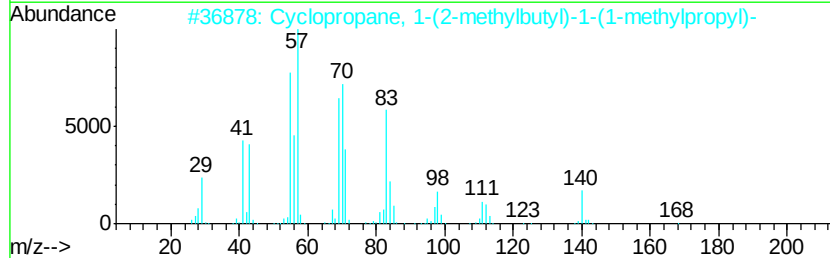
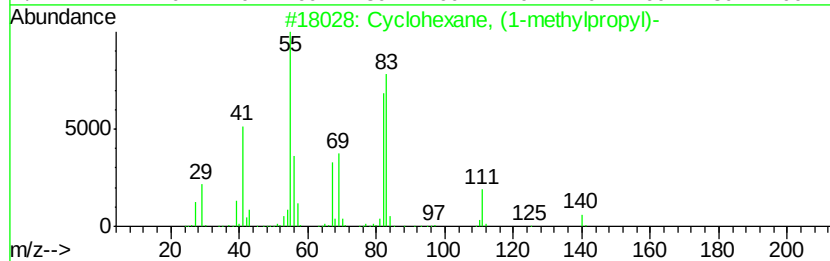
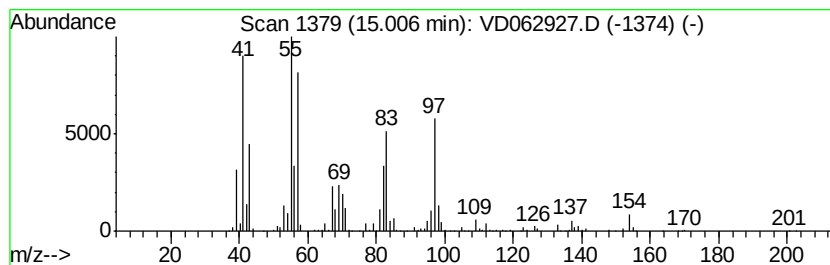
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown15.01 Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.01 | 66.82 ug/l | 3869190 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (1-methylpropyl)-      | 140 | C10H20  | 007058-01-7 | 47   |
| 2    |    | Cyclopropane, 1-(2-methylbutyl)-... | 168 | C12H24  | 064723-36-0 | 38   |
| 3    |    | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 38   |
| 4    |    | Cycloheptane, methyl-               | 112 | C8H16   | 004126-78-7 | 38   |
| 5    |    | Cyclopentane, 1-methyl-2-(2-prop... | 124 | C9H16   | 050746-53-7 | 38   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

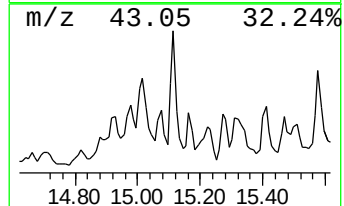
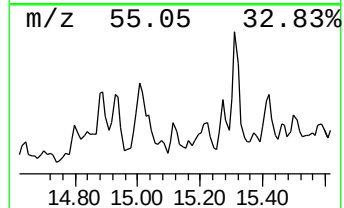
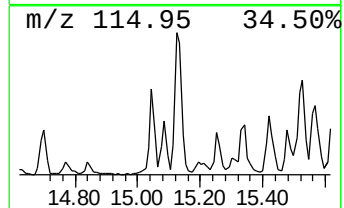
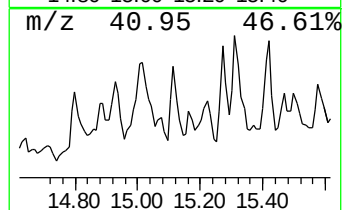
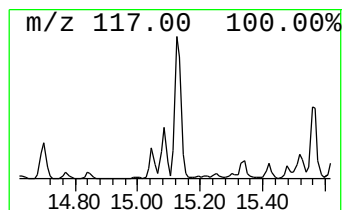
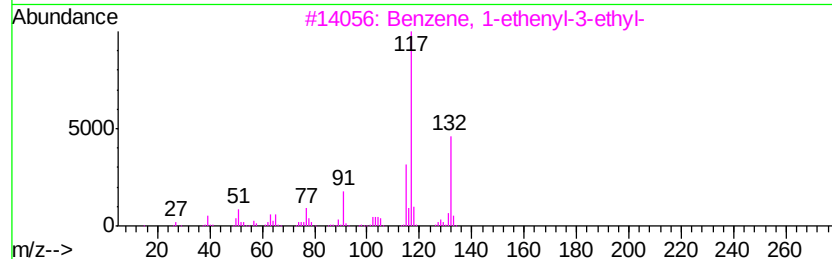
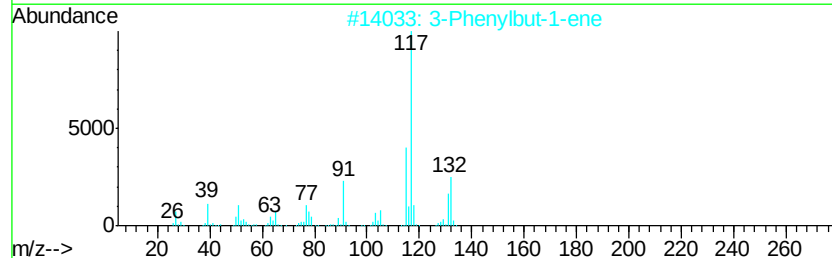
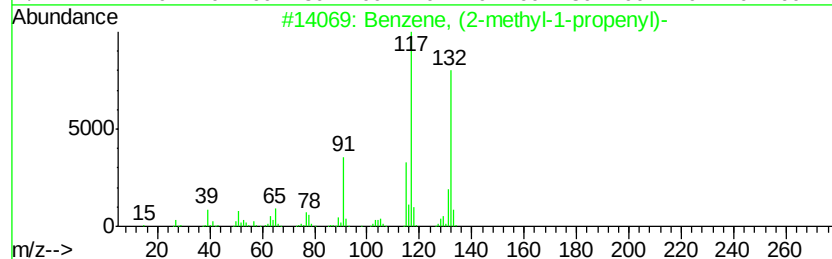
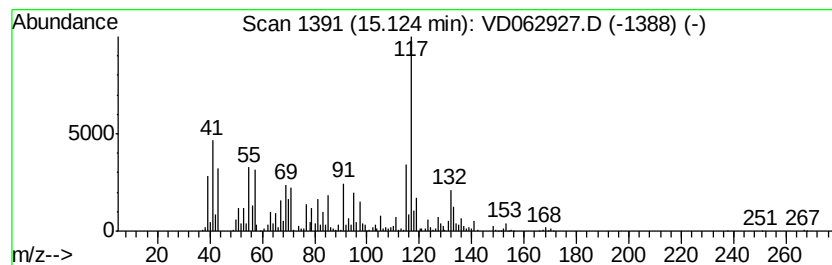
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzene, (2-methyl-1-propen... Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.12 | 71.26 ug/l | 4126640 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12  | 000768-49-0 | 60   |
| 2       |   | 3-Phenylbut-1-ene               | 132 | C10H12  | 000934-10-1 | 60   |
| 3       |   | Benzene, 1-ethenyl-3-ethyl-     | 132 | C10H12  | 007525-62-4 | 53   |
| 4       |   | Indan, 1-methyl-                | 132 | C10H12  | 000767-58-8 | 46   |
| 5       |   | Benzene, 1-pentenyl-            | 146 | C11H14  | 000826-18-6 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

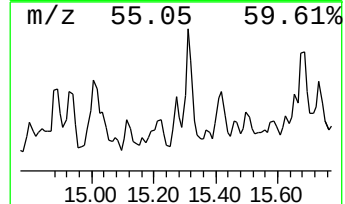
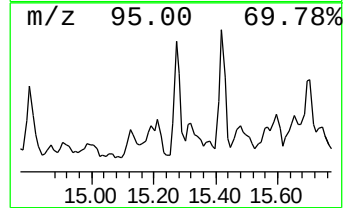
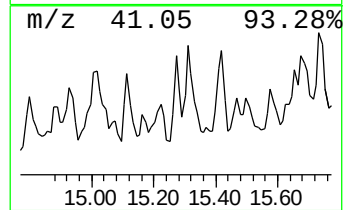
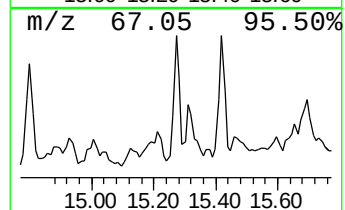
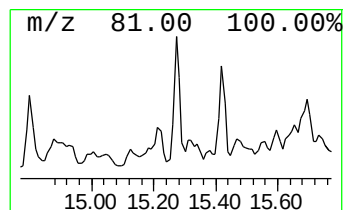
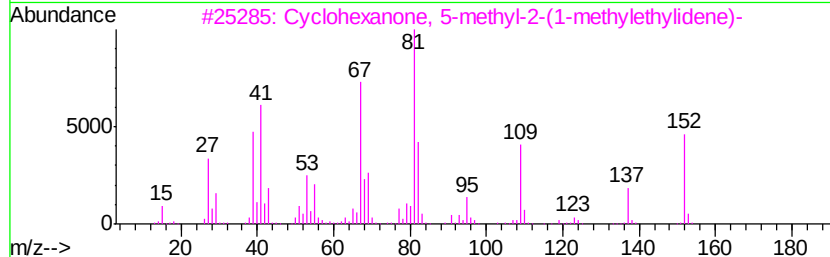
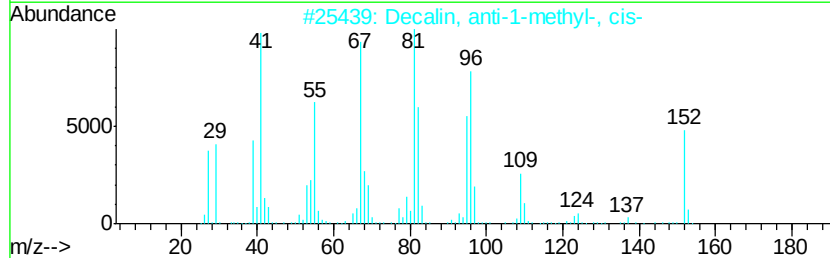
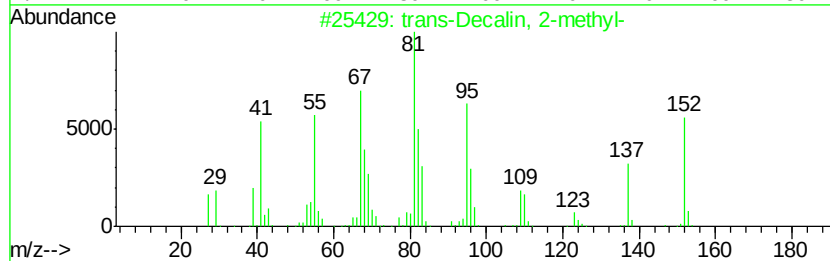
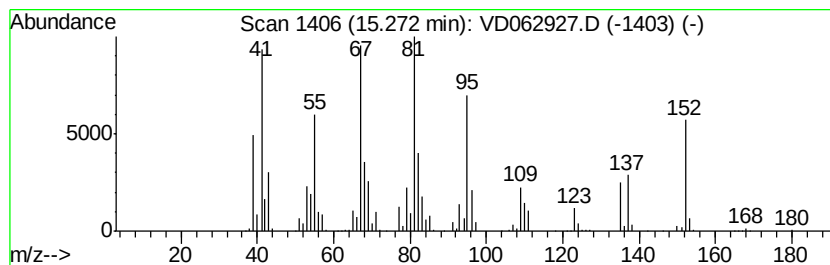
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ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 8

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 15.27   | 67.38 ug/l                          | 3901560      | 1,4-Dichlorobenzene-d4 | 14.50     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | trans-Decalin, 2-methyl-            | 152 C11H20   | 1000152-47-3           | 74        |
| 2       | Decalin, anti-1-methyl-, cis-       | 152 C11H20   | 1000158-89-0           | 70        |
| 3       | Cyclohexanone, 5-methyl-2-(1-met... | 152 C10H16O  | 015932-80-6            | 70        |
| 4       | Spiro[5.5]undecane                  | 152 C11H20   | 000180-43-8            | 62        |
| 5       | Decalin, syn-1-methyl-, cis-        | 152 C11H20   | 1000158-89-1           | 62        |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

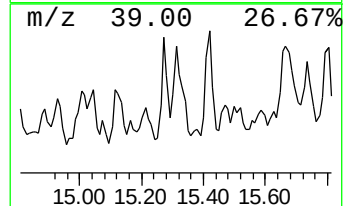
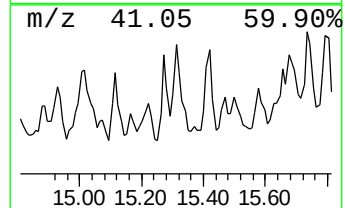
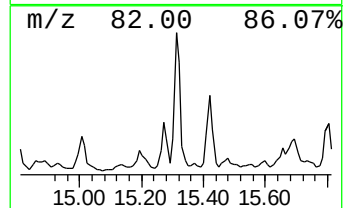
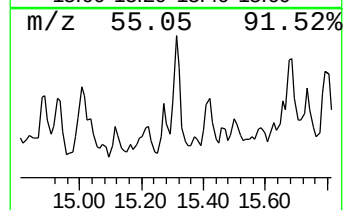
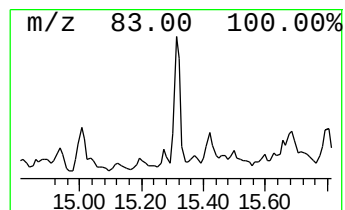
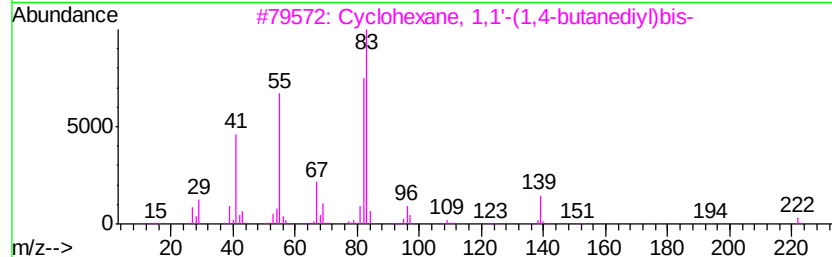
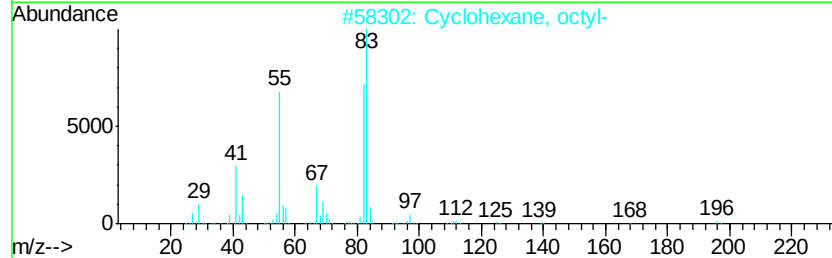
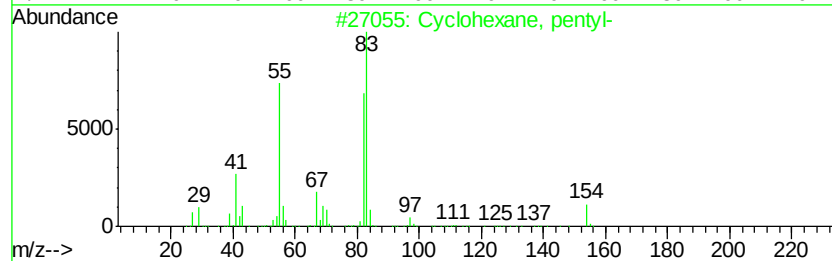
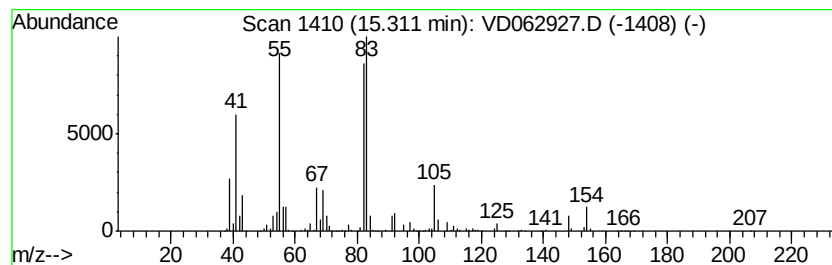
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Cyclohexane, pentyl- Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.31 | 88.48 ug/l | 5123950 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, pentyl-                   | 154 | C11H22  | 004292-92-6 | 93   |
| 2    |    | Cyclohexane, octyl-                    | 196 | C14H28  | 001795-15-9 | 72   |
| 3    |    | Cyclohexane, 1,1'-(1,4-butanediyl)bis- | 222 | C16H30  | 006165-44-2 | 64   |
| 4    |    | Cyclohexane, (1-methylethyl)-          | 126 | C9H18   | 000696-29-7 | 64   |
| 5    |    | Cyclohexane, butyl-                    | 140 | C10H20  | 001678-93-9 | 64   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

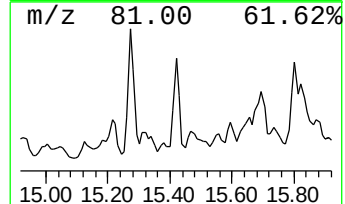
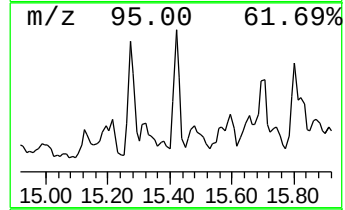
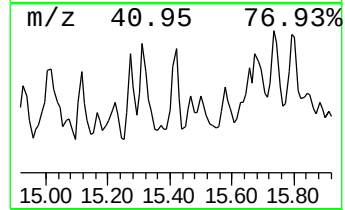
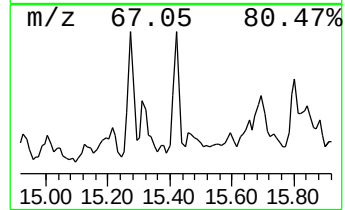
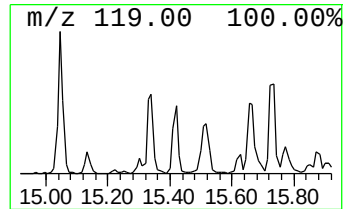
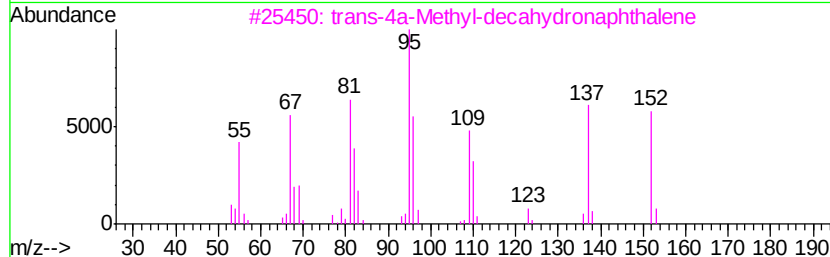
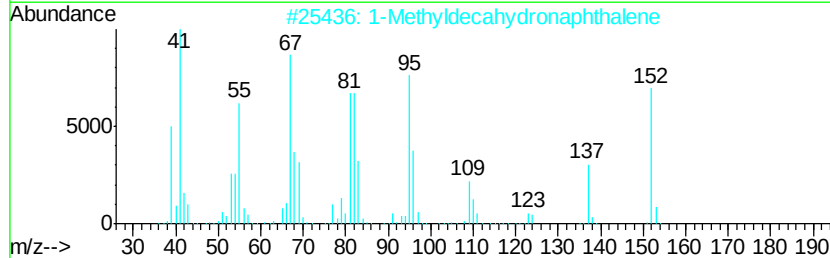
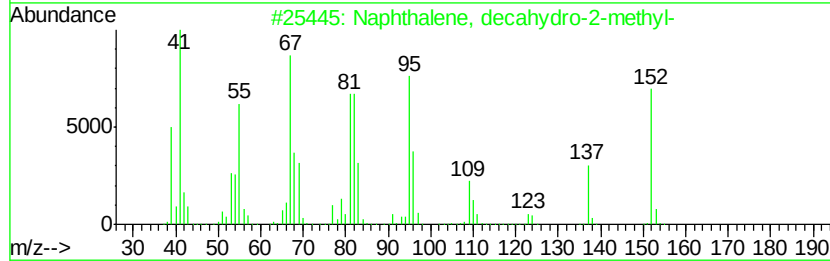
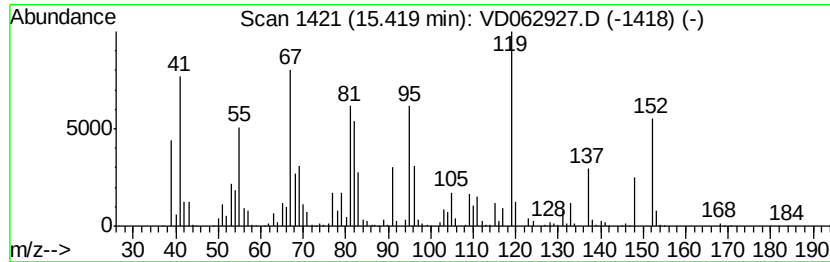
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Naphthalene, decahydro-2-me... Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.42 | 80.61 ug/l | 4667810 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 99   |
| 2    |    | 1-Methyldecahydronaphthalene        | 152 | C11H20  | 002958-75-0  | 99   |
| 3    |    | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 78   |
| 4    |    | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 58   |
| 5    |    | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6  | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

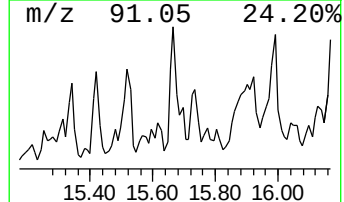
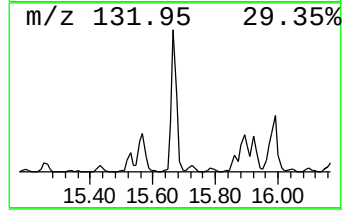
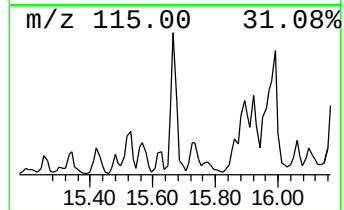
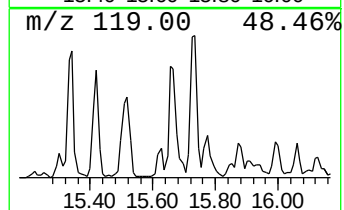
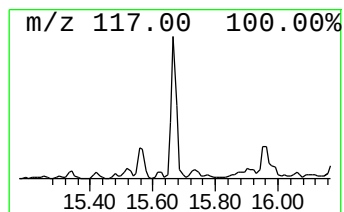
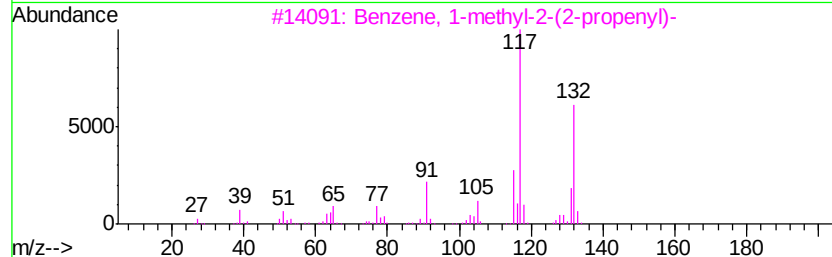
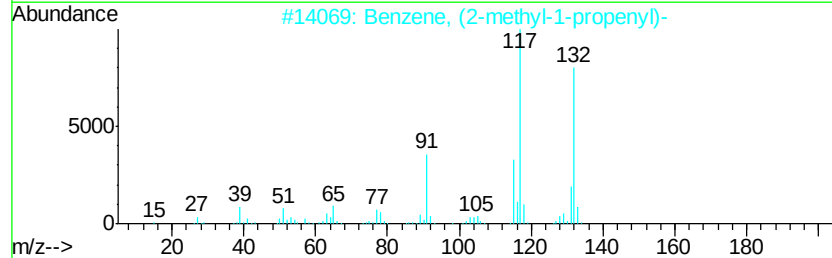
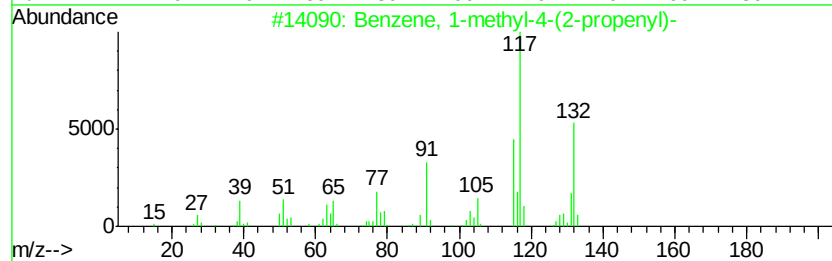
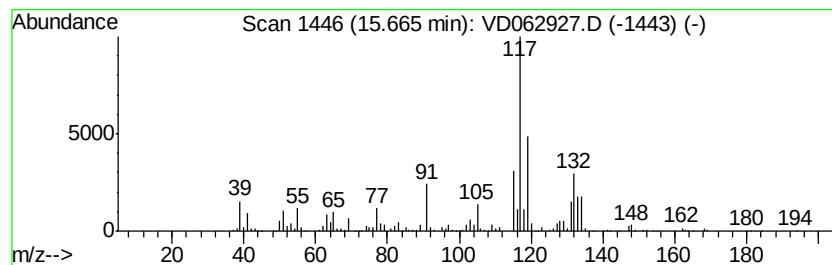
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1-methyl-4-(2-prop... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.67 | 122.72 ug/l | 7106660 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(2-propenyl)-   | 132 | C10H12  | 003333-13-9 | 87   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-     | 132 | C10H12  | 000768-49-0 | 70   |
| 3    |    | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 70   |
| 4    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 70   |
| 5    |    | 3-Phenylbut-1-ene                   | 132 | C10H12  | 000934-10-1 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

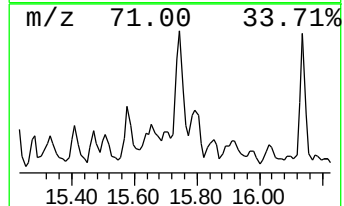
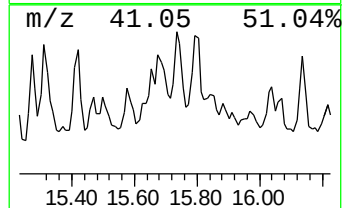
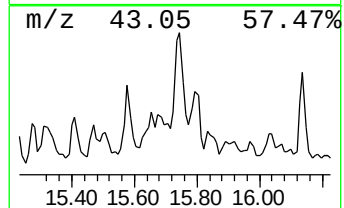
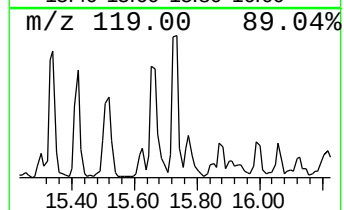
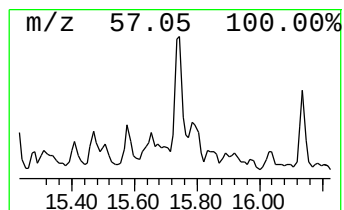
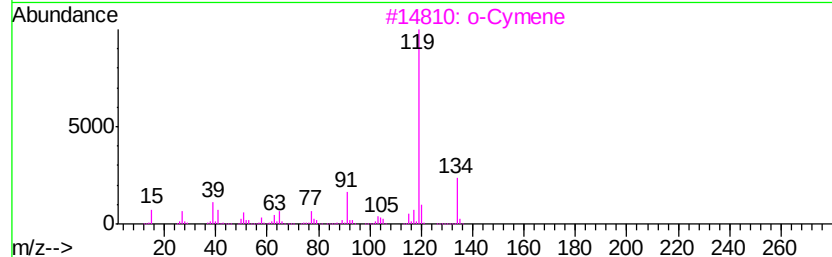
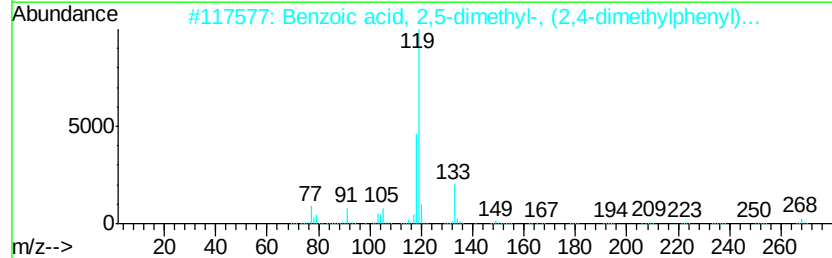
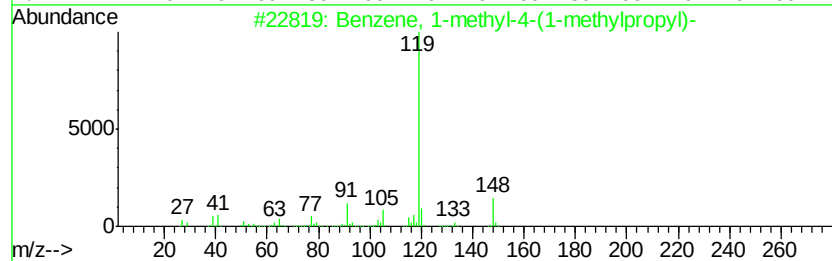
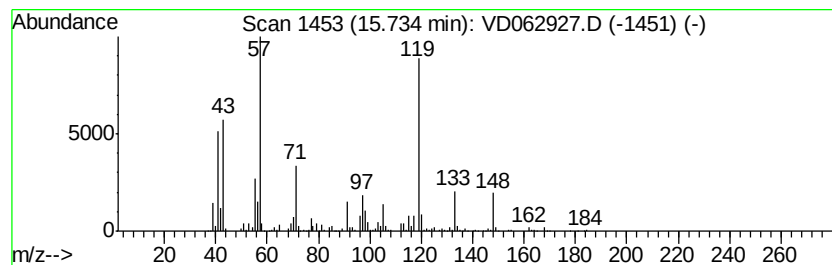
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1-methyl-4-(1-meth... Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.73 | 61.92 ug/l | 3585800 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16    | 001595-16-0 | 55   |
| 2    |    | Benzoic acid, 2,5-dimethyl-, (2,... | 268 | C18H20O2  | 055000-48-1 | 47   |
| 3    |    | o-Cymene                            | 134 | C10H14    | 000527-84-4 | 46   |
| 4    |    | Disiloxane, 1,1,3,3-tetramethyl-    | 134 | C4H14OSi2 | 003277-26-7 | 46   |
| 5    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14    | 002870-04-4 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

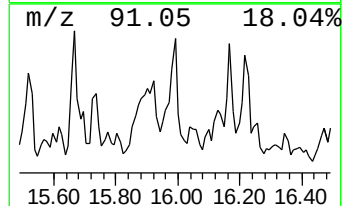
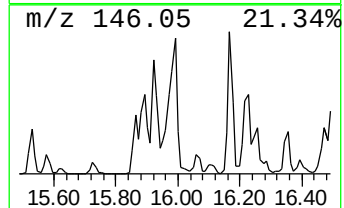
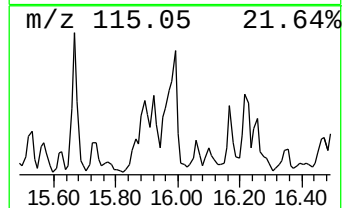
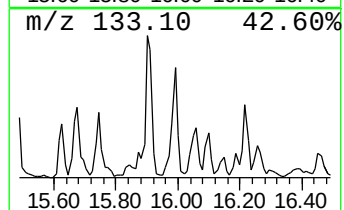
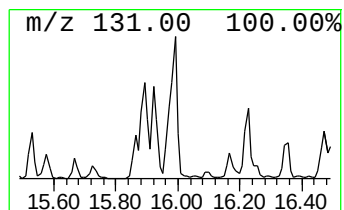
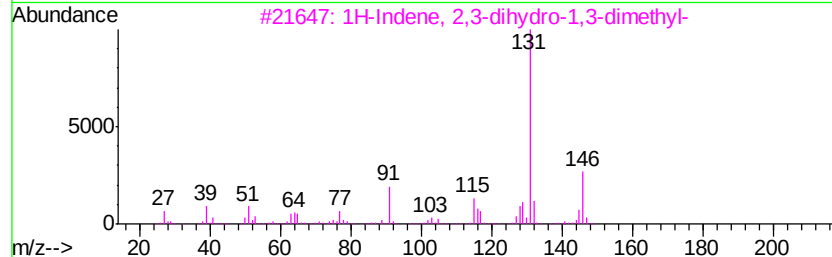
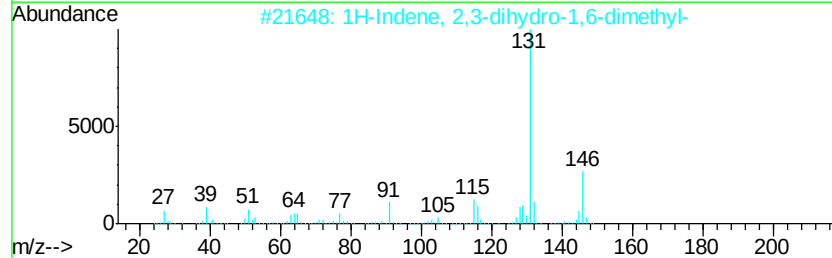
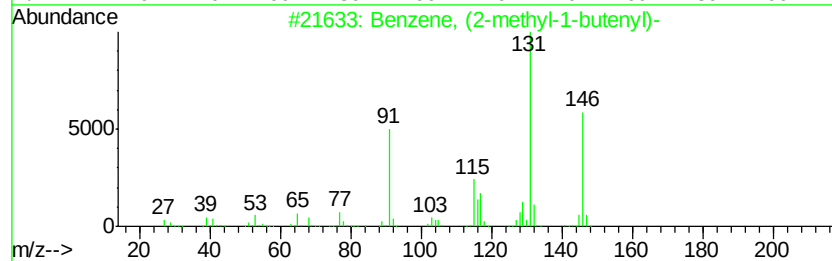
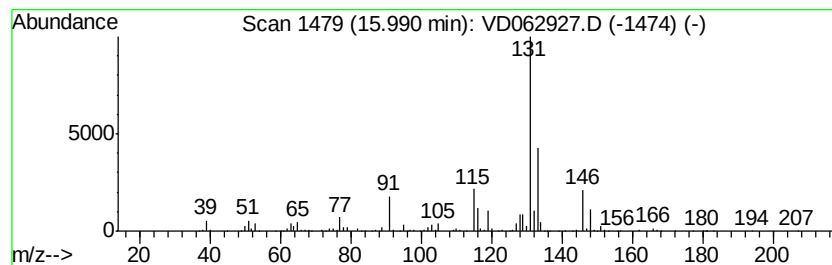
Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Benzene, (2-methyl-1-butenyl)- Concentration Rank 3

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 15.99   | 87.66 ug/l | 5076380                             | 1,4-Dichlorobenzene-d4 | 14.50          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, (2-methyl-1-butenyl)-      | 146 C11H14             | 056253-64-6 58 |
| 2       |            | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 C11H14             | 017059-48-2 53 |
| 3       |            | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 C11H14             | 004175-53-5 52 |
| 4       |            | Benzene, 1-methyl-2-(1-methyl-2-... | 146 C11H14             | 097664-19-2 52 |
| 5       |            | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 C11H14             | 027087-54-3 52 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

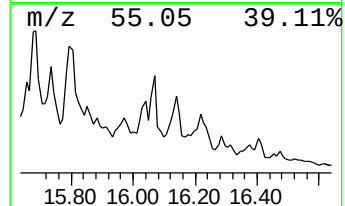
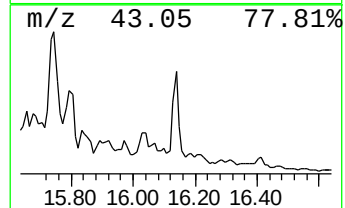
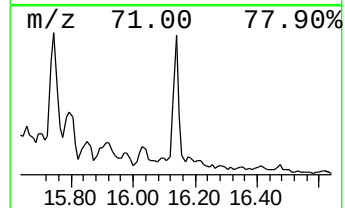
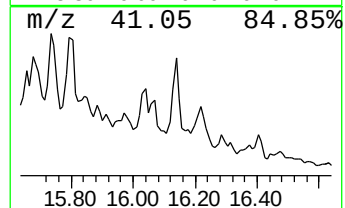
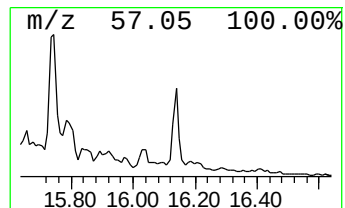
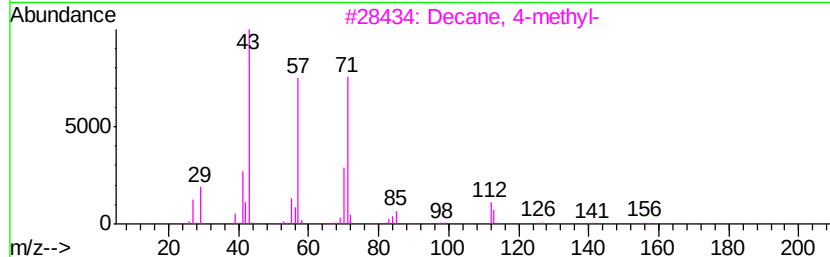
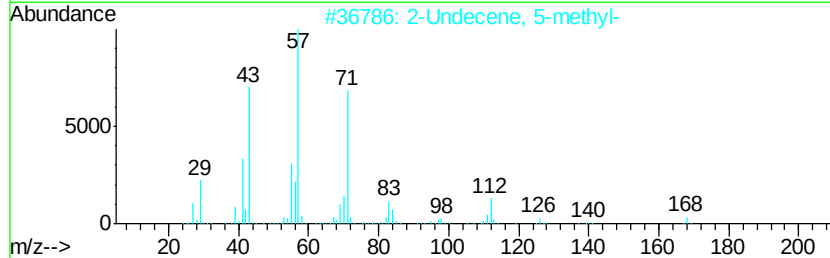
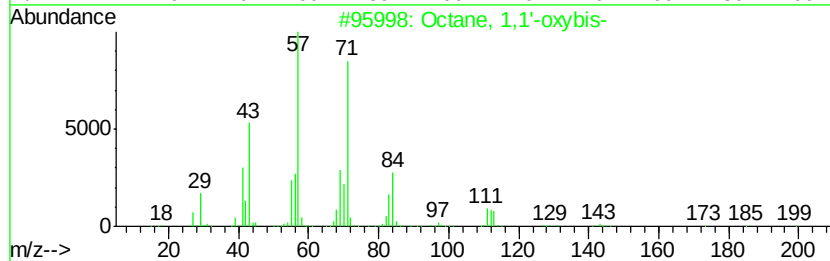
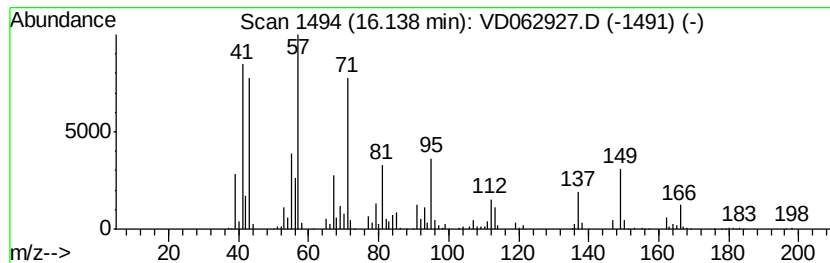
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown16.14 Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 16.14 | 69.02 ug/l | 3996580 | 1,4-Dichlorobenzene-d4 | 14.50 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 1,1'-oxybis-       | 242 | C16H34O | 000629-82-3 | 47   |
| 2    |    | 2-Undecene, 5-methyl-      | 168 | C12H24  | 056851-34-4 | 43   |
| 3    |    | Decane, 4-methyl-          | 156 | C11H24  | 002847-72-5 | 43   |
| 4    |    | Octane, 3,6-dimethyl-      | 142 | C10H22  | 015869-94-0 | 43   |
| 5    |    | Heptadecane, 2,6-dimethyl- | 268 | C19H40  | 054105-67-8 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

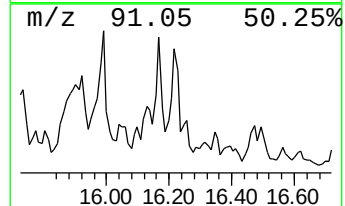
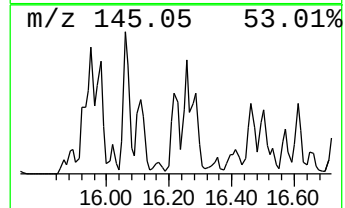
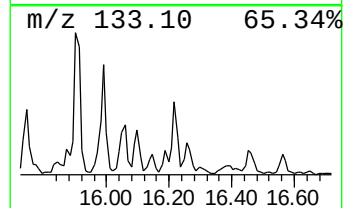
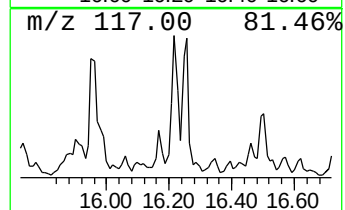
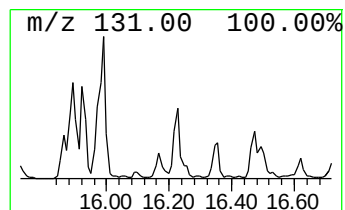
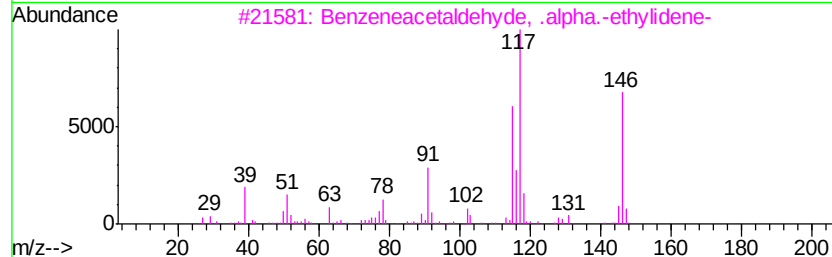
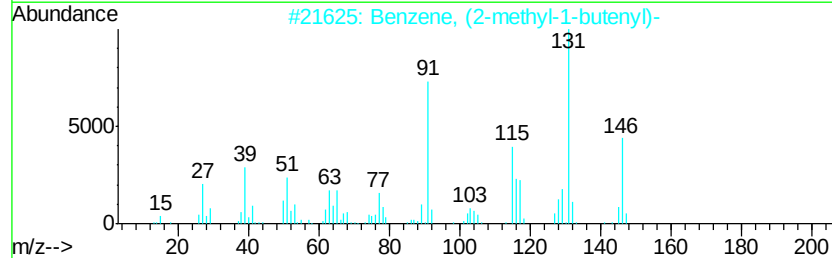
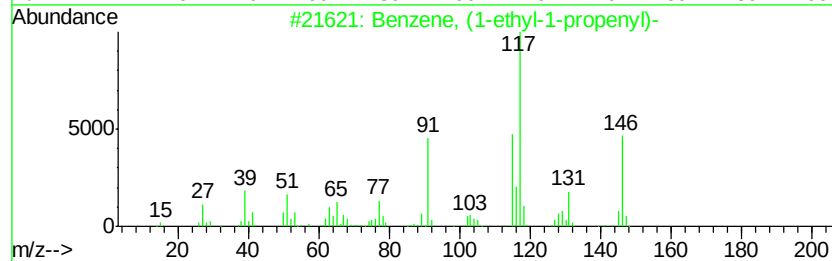
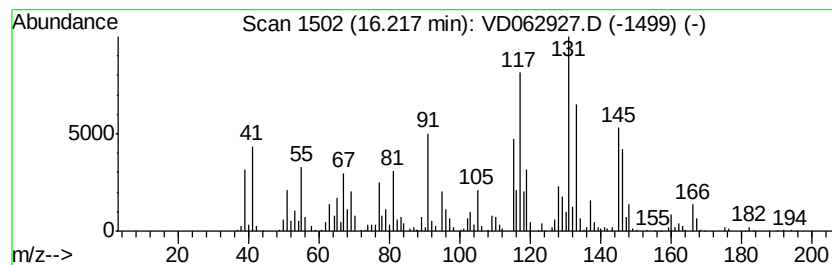
Instrument :  
MSVOA\_D  
ClientSampled :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Benzene, (1-ethyl-1-propenyl)- Concentration Rank 4

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 16.22   | 86.71 ug/l | 5021400                             | 1,4-Dichlorobenzene-d4 | 14.50          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, (1-ethyl-1-propenyl)-      | 146 C11H14             | 004701-36-4 86 |
| 2       |            | Benzene, (2-methyl-1-butenyl)-      | 146 C11H14             | 056253-64-6 83 |
| 3       |            | Benzeneacetaldehyde, .alpha.-eth... | 146 C10H10O            | 004411-89-6 50 |
| 4       |            | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 001559-81-5 46 |
| 5       |            | Benzene, (1-methyl-1-butenyl)-      | 146 C11H14             | 053172-84-2 46 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD062719\  
Data File : VD062927.D  
Acq On : 27 Jun 2019 13:14  
Operator : VA/AP  
Sample : K3471-01  
Misc : 4.99g/5ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WASTE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.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 |
| unknown15.01         | 15.01 | 66.8    | ug/l  | 3869190  | 4                     | 14.50 | 2895380 | 50.0 |
| Benzene, (2-methy... | 15.12 | 71.3    | ug/l  | 4126640  | 4                     | 14.50 | 2895380 | 50.0 |
| trans-Decalin, 2-... | 15.27 | 67.4    | ug/l  | 3901560  | 4                     | 14.50 | 2895380 | 50.0 |
| Cyclohexane, pentyl- | 15.31 | 88.5    | ug/l  | 5123950  | 4                     | 14.50 | 2895380 | 50.0 |
| Naphthalene, deca... | 15.42 | 80.6    | ug/l  | 4667810  | 4                     | 14.50 | 2895380 | 50.0 |
| Benzene, 1-methyl... | 15.67 | 122.7   | ug/l  | 7106660  | 4                     | 14.50 | 2895380 | 50.0 |
| Benzene, 1-methyl... | 15.73 | 61.9    | ug/l  | 3585800  | 4                     | 14.50 | 2895380 | 50.0 |
| Benzene, (2-methy... | 15.99 | 87.7    | ug/l  | 5076380  | 4                     | 14.50 | 2895380 | 50.0 |
| unknown16.14         | 16.14 | 69.0    | ug/l  | 3996580  | 4                     | 14.50 | 2895380 | 50.0 |
| Benzene, (1-ethyl... | 16.22 | 86.7    | ug/l  | 5021400  | 4                     | 14.50 | 2895380 | 50.0 |